24 July 2017 As at

General

Andrew WELSH Resp Officer: cp1705919 Rednest #

Primary Group / Primary Category Date Lodged /Completed

Drainage Inadequate Drainage #COMPLETED Phone crDRAINAGE crDngInade Source: Status: 21/06/2016 19/07/2016 Completed: 27/06/2016 Lodged: Target:

Medium

Priority:

Caller Details	
Name & Contact	Caller Address
ROLF LIGHT	77 TAVISTOCK STREET TORQUAY QLD 4655
Home Phone:	Mobile Phone: 0448 038 891
Work Phone:	Email: Rolf.Light@frasercoast.qld.gov.au
Property Details	
Legal Desc Land	Property Address
Primary Street	Owner
SHELLCOT STREET	No owners recorded

Details

Full Details

Drainage - Other

Councillor Light has contacted regarding drainage/flooding in Shellcot Street, Toogoom.

Please investigate the cause and any possible solutions etc.

### Investigation Notes

Date	Officer	Officer Comment	and to be described to the second of the total second of the second of t
21/06/2016	Andreww	- Andrew Wels	
27/06/2016	Andreww	ıl advised to close by Paul Orr - Andrew Welsh	0
Resolution:	a de la composição de l	Resolution: Data provided to Paul advised to close by Paul Orr - Andrew Welsh	

## Past & Current Events

Event code	Date started	Date Date Description target completed		Decision	Modiffed by
Pegbol	21/06/2016	21/06/2016 Request Lodged	Com	Completed	KAHLIA.SMITH
AcknowOff	21/06/2016	27/06/2016 Request Acknowledgement by Assigned Officer	Yes		ANDREWW
CustClosed	27/06/2016	27/06/2016 Customer Closed - Internal action still required	Yes		ANDREWW

24/07/17 15:35 Page 1 of 2

Report run:

As at 24 July 2017

Past & Current Events

Week and the Language Control of the State o	<b>B</b>	ANDREWA	run:
Andread Control Common Debugging Advisory with the fact of management control	Decision	se control of the con	Report run:
	Completed Description	AND STORES COMPlete Complete (Sequest Complete C	
	target co		
	vare	2//06/2016	Details
	Event code		CLK - One Request Details
201	17/18		_

Modified by

ANDREWW

#### **INVESTIGATION NOTE**

Subject:	Flank sealing of Shellcot	Street Toogoom	
Date:	12 March 2015		
Author:	Andrew Welsh		
DOC NO:	2914177	CP NO.	cp2920104

#### Infrastructure Investment Priority Framework guideline.

Note: th	nis sectio	Doc on to be completed prior to	cument (		orks List	ting "Clearin	ng Sheet".				
Division 5	IPIF 1 - 5	Report Conclusion		Director  Executive M Southern Div Group Mana Northern Div Senior Engin							
				Supported	Su	Not pported	Initial				
		No action to be undertaken		(C)							
		Refer to maintenance section									
	2	Place on Future Works Lists		9 0			W. Sweeney				
		Works can be completed within current budget allocation		Works can be completed within current budget		Works can be completed within current budget					D. Nadiu
		Council Report									
		Executive Report									
Comments	5:	Council	llor Genera	and CDM							
	<u>,C</u>			ctor if required	d						
Cour	cillor	Outcome	_		D	irector					
X				Support		Not S	upported				
		Written Response Email to Councillor Other					_ ·				

#### 1. PURPOSE

The purpose of this investigation note is to provide sufficient information to have this project included onto the Clearing Sheet of the Future Works List for consideration in future budgets

#### 2. BACKGROUND

The specific issues raised are as follows:

Resident has raise the issue that the western section of Shellcot Street between Jeppesen Street and the new estate construction is not sealed to the kerb. Council has recently undertaken a flank sealing program 2014/15 to address similar issues within the populated areas.

Resident claims to be told by successive Councillors and Mayors back to when Toogoom was under Woocoo Shire that this section of Shellcot Street would be sealed, only for nothing to eventuate.

Resident claims the dust generated by the garbage trucks and other commercial vehicles using the verge is increasing and affecting their health.

Resident claims that the street has not even been resurfaced in the last 40 years as long as he has been there.

#### **Background to issues**

Shellcot Street is 12.5m wide in the sections of concern, it is partially sealed to the kerb at the traffic calming areas and three raised traffic calming device and a traffic chicane to deter traffic.

Increasing the width of the seal, to the kerb, may provide a perception that road is easier to travel and adversely increase the traffic volume.

Onsite inspection indicates the following:

- No pot holes in the flank area from vehicles accessing driveways and
- No damage along the kerb line from garbage trucks
- No rolling of the kerb

#### 3. . OPTIONS

Option 1-Seal to the kerb as part of the flank sealing program approx. cost \$200,000.00

Option 2-Realing 550m kerb on southern side to suit the narrower (newer) section of Shellcot Street 20 driveways and associated concrete work approx. cost \$280,000.00

Option 3-Realign 550m kerb on southern side and create fall to unformed road reserve to the south and the main drain, construct a wider open channel through this park land to accommodate new flows approx. cost \$380,000.00.

The option of pipes would require 100mm water main to be lowed and potentially require gravity feed sewer main to be realigned.

- This project is not a PIP project
- This project is not currently listed on the flank sealing program
- This project is not currently listed in the Future Works List
- This project is not currently listed on the Clearing Sheet within the Future Works List

#### 4. **CONCLUSION**

The following projects are listed on the Future Works list for either maintenance works or greater projects

Shellcot St, Toogoom - (out front of Rural Bush Fire Brigade) This project provides for upgrade of the two gully boxes in Shellcot Street near the Rural Fire Brigade to side entry pits to improve drainage and reduce vegetation blocking the system priority 1 fund allocated \$3,000

Shellcot St, Toogoom - (Jeppesen to New Subdivision) This project provides for flank sealing northern side of this section of Shellcot and realigning south kerb to match new section including driveway construction on southern side. Also construct wider open channel through southern land to assist with drainage. Project is with ESQ at 80% with priority 2, funds allocated \$650,000 yr to be delivered 2016-17.









Eastern end of Shellcot from new construction after raised traffic calming to second raised traffic calming



Mid block between second raised traffic calming and traffic chicane



Mid block between western side of traffic chicane and raised traffic calming



Western end of Shellcot Street after raised traffic calming prior to Jeppesen Street

#### Flank sealing cost

Location	Dollar value/ project		Chillian	Total m2
341402 - Gibbs Street	117,647		Gibbs St	489
341403 - Mitta Way	50,116		Mitta Way	413
341404 - Richard St	132,416	NO.	Richard St	2,509
341405 - Shell Street	83,225		Shell St	1,608
	\$383,403	. 6		5,019
	\$/m2	\$76.39		
Shellcot Street	m2	\$ rate		
Southern side	922	\$70,072.00		
Northern side	979	\$74,404.00		
	Total	\$144,476.00	\$187,818.80	30% contingency
Davendra suggests	\$/m	\$85		
@ Davendra suggested rate	922	\$78,370.00		
0-	979	\$83,215.00		
	Total	\$161,585.00	\$210,060.50	30% contingency

#### **AADT class 3 and above**

**11:17 Monday, 9 February 2015 => 8:52 Tuesday, 17 February 2015 (7.8994)** 3, 4, 5, 6, 7, 8, 9, 10, 11, 12 10 - 160 km/h. Filter time:

Included classes:

Speed range:

Scheme: Vehicle classification (AustRoads94)

Units: Metric (metre, kilometre, m/s, km/h, kg, tonne)

Vehicles = 88 / 5112 (1.72%) In profile:

\* Virtual Day - Total=11, 15 minute drops

	0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300
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	0	0	0	0	0	0	0	0	0	0	0	٥	1	0	7	0	n	ň	ň	ň	0	Ô	0	0
	0	0	0	0	0	0	0	0	0	0	0	0	1	n	1	n	0	0	0	0	0	0	0	0
1	AM Pea	k 114	5 - 124	5 (2), /	M PH	F=0.58	PM P	eak 12	00 - 13	00 (2).	PM PI	HF=0.6	7	·	_	U	U	U	U	U	U	U	U	U

As at 24 July 2017

		Andrew WELSH
	Contraction of the second	Resp Officer:
		cp1706101
General		Request #

Date Lodged /Completed	/Completed	Primary Group /	Primary Group / Primary Category	Home Phone:
Lodged:	14/10/2016	crDRAINAGE crDngInade	Drainage Inadequate Drainage	Property Details
Target:	11/11/2016	Status:	#COMPLETED	Legal Desc Land
Completed:	25/10/2016	Source:	Phone	

Medium

Priority:

Caller Details	Caller Details
Name & Contact	Caller Address
Home Phone:	Mobile Phone:
Work Phone:	Email:
Property Details	
Legal Desc Land	Property Address
Street	Owner
SHELLCOT STREET	No owners recorded

Details

Full Details

Drainage - Other

called to report inadequate drainage in the older part of the street in front of the park and the rural fire brigade. The drainage system clogs up and causes a water hazard with minimal amounts of rain.

### **Investigation Notes**

## Past & Current Events

Event code	Date started	Date target	Date Description	Decision	Modiffed by
Lodged	14/10/2016		14/10/2016; Request Lodged	Completed	MEGAN.STEVENS
AcknowOff	14/10/2016	emplopery y para see deskin and the addition that the state of the see see any color of the problem of the	25/10/2016 Request Acknowledgement by Assigned Officer	Yes	ANDREWW
CustClosed	25/10/2016	an para da	25/10/2016 Customer Closed - Internal action still required	Yes	ANDREWW

Page 1 of 2 24/07/17 15:36

Report run:

Rep

	rage 2 01 2	24/07/17 15:36
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24 July 2017 Past & Current Events As at

Complete	<b>started</b> 25/10/2016								
Complete	25/10/2016	target	completed		-		Decision	Modified by	>
			25/10/2016	25/10/2016 Request Complete		:	Yes	OREWW	
			30.5						
			J	0					
				inde					
				R. C.					
					60				
					HOL	,			
						ail			
						ON			
							,500°		
CLR - One Request Details	ails						Report run:	24/0	Page 2 of . 17/17 15:3

### 24 July 2017 As at

General

Paul Orr Resp Officer: cp1706303 Request #

Drainage Inadequate Drainage Primary Group / Primary Category #COMPLETED crDRAINAGE crDngInade Status: Date Lodged /Completed 20/03/2017 17/04/2017 Lodged: Target:

Medium Priority:

Phone

Source:

Completed: 20/03/2017

Caller Details	
Name & Contact	Caller Address
Home Phone:	Mobile Phone:
Work Phone:	Email: N/A
Property Details	
Legal Desc Land	Property Address
Primary Straet	
SHELLCOT STREET	No owners recorded

#### Details

### **Full Details**

Drainage - Other

rang to advise that Council has recently been out and conducted road works in Shellcot Street near the Rural Fire Brigade (machinery is still there) and after the rain last night & today, the water isn't draining away and nearly across the road. Please investigate. Thanks.

### **Investigation Notes**

Comment	ns inthe area. No further action		
e de la companya del companya de la companya del companya de la companya del la companya de la companya del la companya de la	utions to the ongoing drianage concer		
omment.	PO - Council currently investigating solutions to the ongoing drianage concerns inthe area. No further action		The second secon
Officer Comment	Paul.Orr PC	NFA	
Date	20/03/2017 Paul.Orr PO - Cour	Resolution:	

## Past & Current Events

Event code	Date started	Event code Date Date Description started target completed Description	<b>a</b>	Decision Modified by
Lodged	20/03/2017	20/03/2017 Request Lodged	Completed	red ROBYN, GRUNSKE
AcknowOff	20/03/2017	Request Acknowledgement by Assigned Officer	The state of the s	ROBYN.GRUNSKE
Complete	20/03/2017	2017 20/03/2017 Request Complete	Yes	PAUL.ORR

Page 1 of 2

Report run:

CLR - One Request Details

24/07/17 15:37

## .CRC. Released under Right to Information Act 2009 Customer Request - cp1706303 24 July 2017 As at

24 July 2017 As at

General

Resp Officer: cp2926886 Request # Primary Group / Primary Category Date Lodged /Completed

Roads Maintenance #COMPLETED Phone crROADS crRdMTC Status: Source: 11/04/2017 04/04/2017 30/05/2017 Completed: Lodged: Target:

**Property Address** Caller Address Mobile Phone: Owner Email: Name & Contact **Property Details** Legal Desc Land **Primary Street Caller Details** Home Phone: Work Phone:

No owners recorded

SHELLCOT STREET

Medium

Priority:

#### Details

### **Full Details**

Maintenance

has phoned to report that the road works that were being done on Shelcot Street Toogoom have now finished about 2 weeks ago. They kept it water through-out the time they where suppose to come back and bitumen that rest of the road. They kept it water through-out the time they where working there, but when they pack the machinery up 2 weeks ago there has been no one back to water the dust down. Can this matter please be investigate and if a Officer can please contact advise of what will be done. The best contact number for

## **Investigation Notes**

	the section of the contract of			
				,
er Comment	1. The contract of the contrac			11/4/17 kahlia smith - John has advised that the road is being watered. cp closed
Offic			Commence of the commence of th	
Date			AND AND THE PROPERTY OF A COMPANY OF THE PROPERTY OF THE PROPE	Resolution:

## Past & Current Events

Event code	Date started	Date target			Decision	Modified by
Lodged	04/04/2017	Company of the second s	04/04/2017 Request Lodged		Completed	JANET.SMITH
AcknowOff	04/04/2017		Request Acknowledgement by Assigned Officer	ed Officer		JANET.SMITH
Complete	11/04/2017		11/04/2017 Request Complete		Yes	KAHLIA.SMITH

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24/07/17 15:29

Report run:

CRC. Released under Right to Information Act 2009 Customer Request - cp2926886

24 July 2017

As at

24 July 2017 As at

General

**Shaun Pringle** Resp Officer: cp1706551 Request # Primary Group / Primary Category Date Lodged /Completed

Drainage Stormwater Programmed Works #COMPLETED Medium Phone crDRAINAGE crDngSWPW Priority: Status: Source: 03/07/2017 Completed: 10/05/2017 08/05/2017

Lodged:

Target:

**Property Address Caller Address** Mobile Phone: Owner Email: SHELLCOT STREET **Property Details** Name & Contact Legal Desc Land **Primary Street** Caller Details Work Phone: Home Phone:

Details

**Full Details** 

016

Stormwater Programmed Works - phoned to say has purchased the above property on six wondering when they will be removed and where they are going to? Please phone phoned to say

and sees that there is a large number of pipes an culverts out the front back to discuss. They will start to build may about June-July.

**Investigation Notes** 

was happy with the contact - cp closed by Wendy B 100517 and spoke to about the project and Shaun P 100517 - Rang Comment Actioned Resolution:

Past & Current Events

Event code starte	Date started	Date target	Date completed	Date completed Description	Decision of the contract of th	Decision Modified by
Podpod	08/05/2017	Pendinana digitarana dika da dan mendengan dakanan da	08/05/2017 Re	08/05/2017 Request Lodged	Completed	JO-ANNE, KENNED
AcknowOff	08/05/2017		10/05/2017	.0/05/2017 Request Acknowledgement by Assigned Officer	Yes	WENDY.BOSWELL
CustClosed	10/05/2017			Customer Closed - Internal action still required	Annual Company of the	WENDY.BOSWELL
Complete	10/05/2017		10/02/201;	0/05/2017 Request Complete	Yes	WENDY.BOSWELL

Page 1 of 2

24/07/17 15:38

Report run:

24 July 2017 As at

General

**Shaun Pringle** Resp Officer: cp1706569 Request #

Primary Group / Primary Category Date Lodged /Completed

Drainage Drainage Maintenance #COMPLETED Phone crDRAINAGE crDngMtc Status: Source: 15/05/2017 12/06/2017 24/05/2017 Completed:

Lodged:

Target:

Medium Priority:

Caller Details		
Name & Contact	Caller Address	
Home Phone:	Mobile Phone:	
Work Phone:	Email:	and open department of
Property Details		
Legal Desc Land	Property Address	and the
Primary Street	Owner	
SHELLCOT STREET		

Details

Fuli Details

Drainage Maintenance - Clearing of System

property.) , The surveyors cannot get access to the pegs and to discuss , Thanks called from

and same as request number cp1706551 ( sees that there is a large number of pipes an culverts out the front would like to get the concrete culverts moved so the measurements can be taken , Can you call

**Investigation Notes** 

Comment Officer Date

24/5/17 kahlia smith - culverts have been relocated. customer advised. cp closed

Past & Current Events

Resolution:

Decision Modiffed by	Completed ROBERT.TANFIEL	ROBERT.TANFIEL	KAHLIA.SMITH
Date Completed Description		Request Acknowledgement by Assigned Officer	24/05/2017 Request Complete
•	odged 15/05/2017	15/05/2017	24/05/2017
Event code	PodpoT	AcknowOff	Complete

Page 1 of 2

24/07/17 15:39 Report run:

### 24 July 2017 As at

General

Rick Lewis Resp Officer: Request # cp2927334

Roads Roads Miscellaneous Primary Group / Primary Category #COMPLETED Phone crROADS crRdMisc Status: Source: Date Lodged /Completed 19/06/2017 Completed: 22/05/2017 22/05/2017 Lodged: Target:

Medium

Priority:

Caller Details	
Name & Contact	Celler Address
Home Phone:	Mobile Phone:
Work Phone:	Email:
Property Details	
Legal Desc Land	Property Address
Primary Street	Owner
SHELLCOT STREET	No owners recorded
The state of the s	

#### Details

### Full Details

Roads Miscellaneous

wanting to find out from a foreman when the roadworks in Shellcot Street will be completed. Please return a call to was been started a few weeks ago but no one has been back.

Please call Thanks

### Investigation Notes

Officer

Date

	22/5/17 kahlia smith - Rick has advised that he has contacted the customer.	
en de deservaciones es para mandigaran estados es de activo que deservo que deservo en tras departados.	Resolution:	

## Past & Current Events

Event code	Date started	Date Description target	Decision	Modified by
Lodged	22/05/2017	22/05/2017 Reque	Completed	DONNA.KIMBER
AcknowOff		Request Acknowledgement by Assigned Officer	The second secon	DONNA.KIMBER
Complete	22/05/2017	22/05/2017 Request Complete	Yes	KAHLIA.SMITH

Page 1 of 2 24/07/17 15:31

Report run:

24 July 2017

As at

24 July 2017 As at **Engineering Services** Resp Officer: cp2927380 Request # Primary Group / Primary Category Roads Dust Nuisance #COMPLETED Phone crROADS crRdDust Status: Source: Date Lodged /Completed 25/05/2017 25/05/2017 08/06/2017 Completed: Lodged: Target:

Medium

Priority:

**UNKNOWN UNKNOWN** No owners recorded Property Address Caller Address Mobile Phone: OWNE Email: SHELLCOT STREET **Property Details** Name & Contact Legal Desc Land Primary Street **Caller Details** Home Phone: Work Phone: UNKNOWN

Details

**Full Details** 

vould like them to be watered. Dust Nuisance - caller advises that the roadworks have not had water on them today and it is really dusty.

Investigation Notes

Comment

Officer

Date

John Radford - Water trucks have been organised for the full time of the project including the weekend. The seal will be on Wednesday and as there is no follow up phone number can not call her/him to inform her/him of this - cp closed by Wendy B 250517 Actioned Resolution:

Past & Current Events

Event code	Date started	Date target	Date completed	Date Completed Description	Decision	Modified by
Pagpol	25/05/2017	and the second of the second s	25/05/2017	25/05/2017 Request Lodged	Completed	JO-ANNE.KENNED
AcknowOff	25/05/2017			Request Acknowledgement by Assigned Officer		JO-ANNE.KENNED
Complete	25/05/2017		25/05/2017	25/05/2017 Request Complete	Yes	WENDY.BOSWELL

Page 1 of 2 24/07/17 15:32

CLR - One Request Details

General

24 July 2017

As at

### 4)

Page 1 of 2 24/07/17 15:33

## Customer Request - cp2927412

## As at 24 July 2017

2	The second second	Resp Office
		cp2927412
General		Request #

Date Lodged /Completed	/Completed	Primary Group	Primary Group / Primary Category	Home Phone
		crROADS	Roads	Work Phone
Fodged:	30/05/2017	crRdSignMk	JnMk Signage/Linemarking	Property D
Target:	25/07/2017	Status:	#COMPLETED	Legal Desc
Completed:	30/05/2017	Source:	Phone	e makamatoko i kito-likoko digudi makamatanaman

Medium

Priority:

Caller Details	
Name & Contact	Caller Address
Home Phone:	Mobile Phone:
Work Phone:	Email:
Property Details	
Legal Desc Land	Property Address
Primary Street	Owner
SHELLCOT STREET	No owners recorded

#### Details

### **Full Details**

Signs Emergency Signage

rang to request Council put better roadworks signs near the works being done in Shelcott Street. is specifically requesting "Road Closed" signs at the Carkeet Road entrance to Shellcot St so that people know in advance that they can't get through. Please investigate. Thanks.

### **Investigation Notes**

Date	Officer Comment	Officer Commenced and the production of the prod
30/05/2017	Wendy.Boswell	30/05/2017 Wendy.Boswell Referred to John Radford for inspection and actioning by crew- Wendy B 300517
Resolution:	Actioned	Resolution: Actioned John R 300517 - Only temporary "Road Closed" signage is going up in this area cp closed by Wendy B 300517

## Past & Current Events

Event code	Date started	Date Date Description target	Decision	Modified by
-odged	30/05/2017	30/05/2017	Completed	ROBYN.GRUNSKE
AcknowOff	30/05/2017	Request Acknowledgement by Assigned Officer		ROBYN.GRUNSKE
Complete	30/05/2017	30/05/2017 Request Complete	Yes	WENDY.BOSWELL

24 July 2017

## As at 24 July 2017

General

Request # cp2927413 Resp Officer: Ross SENDALL

Date Lodged	Date Lodged /Completed	Primary Group	Primary Group /Primary Category	
rodged:	30/05/2017	crROADS crRdSignMk	Roads Signage/Linemarking	
Target:	25/07/2017	Status:	#COMPLETED	
Completed:	30/05/2017	Source:	Phone	
		Priority:	Medium	

Caller Details	
Name & Contact	Caller Address
Home Phone:	Mobile Phone:
Work Phone:	Email:
Property Details	
Legal Desc Land	Property Address
Primary Street	Owner
SHELLCOT STREET	

#### Details

#### Full Details

Signs Maintenance of Existing

rang to advise that Council has put a "No Through Road" sign at the start of Shellcot Street at the Carkeet Road entrance, however this isn't a No Through Road and the sign shouldn't be there. There is a similar sign at the other end of Shellcot St but it says "Local Traffic Only", and the soundering if the other one should be the same. Please investigate and remove. Thanks.

### Investigation Notes

Date		OHICEL COMMENT
30/05/2017	30/05/2017 Wendy.Boswell Referred to	Rosco for inspection ar
Resolution:	Actioned	Actioned John R 300517 - Only temporary "Road Closed" signage is going up in this area cp closed by Wendy B 300517

## Past & Current Events

Event code	Date started	Date Date Description	Decis	Decision Modified by
Lodged	30/05/2017	30/05/2017 Request Lodged	Completed	ROBYN.GRUNSKE
AcknowOff	30/05/2017	Request Acknowledgement by Assigned Officer	9	ROBYN.GRUNSKE
Complete	30/05/2017	30/05/2017 Request Complete	Yes	WENDY.BOSWELL

(10)

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Report run:

# CRC Released under Right to Information Act 2009 Customer Request - cp2927413











RTI 2017/18-003











RTI 2017/18-003

















RTI 2017/18-003









RTI 2017/18-003











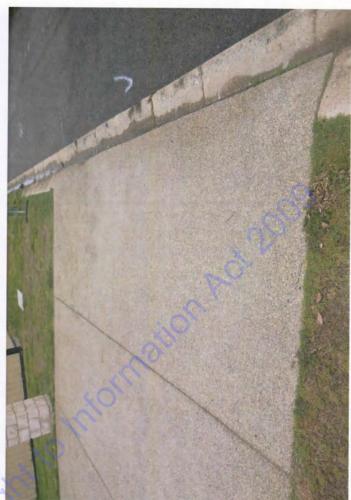






RTI 2017/18-003









RTI 2017/18-003









RTI 2017/18-003







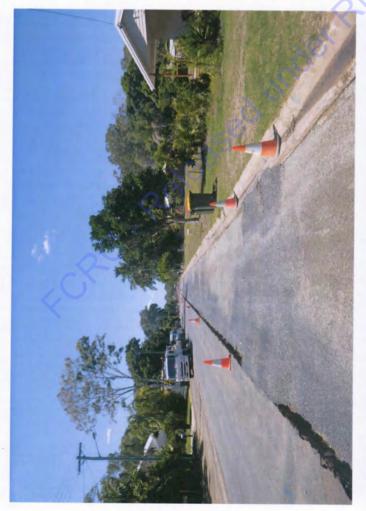


RTI 2017/18-003

10-3-17









RTI 2017/18-003 10-3-17

10-3-1

















RTI 2017/18-003



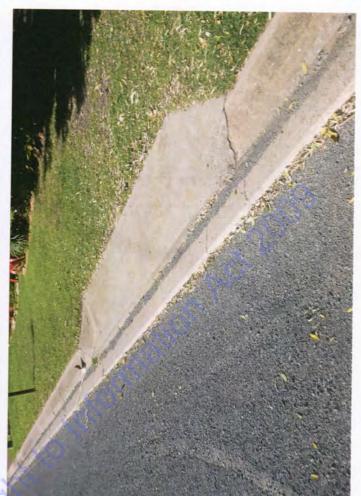






RTI 2017/18-003









RTI 2017/18-003

4-4-17

4-4-17









RTI 2017/18-003

## 4-4-17













### o Design

### **INFRASTRUCTURE SERVICES**

### **PROJECT PLANNING FORM**

Form 2

PROJECT NAME   Shelloot Street - Flank Construction	PROJECT DETAILS	
THOSE TYANTE SHEREOF SHEET Plank COnstruction	PROJECT NAME	Shellcot Street – Flank Construction

ITEM	COMPLETE		DETAILS
Bill of Quantities	Yes	Docs #3221131	
Geotechnical Report	No		(9)
Survey	Yes	Saved in N drive	
Design Calcs & Notes	No		
Land Resumption	N/A		100
Permission to Enter	N/A		
Safety In Design Matrix	Yes	Docs #3221554	
Design Report	N/A		X

DRAWING SCHED	DULE		
Drawing No.	Description	Approved Date	Rev Set
	DESIGN DRAWINGS		
2923-D01-001	LOCALITY PLAN & DRAWING INDEX	17/10/16	С
2923-D01-002	TYPICAL SECTIONS, DETAILS & NOTES	17/10/16	С
2923-D01-010	EXISTING SITE FEATURES – SHEET 1 OF 3	17/10/16	С
2923-D01-011	EXISTING SITE FEATURES – SHEET 2 OF 3	17/10/16	
2923-D01-012	EXISTING SITE FEATURES – SHEET 3 OF 3	17/10/16	c
2923-D01-020	DETAIL DESIGN – SHEET 1 OF 3	17/10/16	C
2923-D01-021	DETAIL DESIGN – SHEET 2 OF 3	17/10/16	С
2923-D01-022	DETAIL DESIGN – SHEET 3 OF 3	17/10/16	С
2923-D01-030	SHELLCOT STREET LONG SECTION – SHEET 1 OF 3	17/10/16	C
2923-D01-031	SHELLCOT STREET LONG SECTION – SHEET 2 OF 3	17/10/16	С
2923-D01-032	SHELLCOT STREET LONG SECTION – SHEET 3 OF 3	17/10/16	C
2923-D01-040	LINEMARKING AND SIGNAGE PLAN – SHEET 1 OF 3	17/10/16	С
2923-D01-041	LINEMARKING AND SIGNAGE PLAN – SHEET 2 OF 3	17/10/16	С
2923-D01-042	LINEMARKING AND SIGNAGE PLAN – SHEET 3 OF 3	17/10/16	С
	STANDARD DRAWINGS - FCRC		
FC-220-01	KERB AND CHANNEL PROFILES AND DIMENSIONS	00/46	
FC-230-01	RESIDENTIAL DRIVEWAY CROSSING SLAB AND TRACKS	08/16	<u>B</u>
, 130 01	RESIDENTIAL DRIVEWAY CROSSING SLAB AND TRACKS	08/16	В
		_   _	

ITEM		DETAILS
Final Signed Design Drawings - Scanned	Docs #	





### Fraser Coast Regional Council **ESTIMATE FLANK CONSTRUCTION** SHELLCOT STREET, TOOGOOM

Account: 2.3436.67

Plan No's: 2923-D01

Date: 18-October-2016

Est: RH Chk'd: CWB

REGION.						# 3221131	
Item	Tas	Description:	T	1	Τ		
	Cod	QUALITY CONTROL REQUIREMENTS	Unit	Qty	Rate	Amount	Provisional
QCP1	003	Quality Verification and Control	LŞ	1			
		GENERAL					
101(b)	009	Supply Digital As Constructed Information	LS	1			
201(a)	006	CONTROL OF TRAFFIC Control of Traffic					
			LS	1			
211/5\	007	CONTROL OF EROSION AND SEDIMENTATION	<del></del>	· vi			
211(a)	007	Temporary Erosion and Sediment Control	LŞ	1			
		CLEARING AND GRUBBING					
212(a)	800	Clearing and Grubbing	LS	1			
		EARTHWORKS		·			
213(a)	010	Removal and Stockpiling of Topsoil (100mm Nom. Strip Depth)	m3	10			
213(b)(i)		General Earthworks - Cut to Spoil - Roads	m3	463			
213(b)(ii)	010	General Earthworks - Cut to Spoil - Drain	m3	12			
213(b)(iii)	010	General Earthworks - Select Fill Imported (Bund - Non Sand)	m3	50			
213(c)	010	Remove & Replace Unsuitable Material - with Type 2.5 Material / Rock (PROVISIONAL)	m3	100			
213(g)	011	Supply and Placement of Geofabic - Bidim A39 to Subgrade	m2	2087			
213(h)	010	Excavation & Replace with CTB for Protection to Services (PROVISIONAL)	m3	10			
		OPEN DRAINS INCLUDING KERB & CHANNEL			-		
224(h)	043	Kerb and Channel - Type B	m	70			
		EL EVIDI E DAMENATARA					
242(a)	020	FLEXIBLE PAVEMENTS					
		Supply, Spread and Compact Subbase Course - 100mm Type 2.3C	m3	202			
242(b)		Supply, Spread and Compact Base Course - 125mm Type 2.1C	m3	261			
242(g)	031	Preparation of Subgrade	m2	2087			
		SPRAYED BITUMINOUS SURFACING			~		
244(a)	035	Supply and Spray Primer, Primerbinder - Class 170 AMC4 Bitumen [1.2 l/m2]	litre	2543			
244(d)	035	Supply, Incorporate and Spray Cutter Oil in Primer, Primerbinder [3%]	litre	76.0			
244(f)	035	Supply, Precoat and Apply Aggregate - 14mm Aggregate (Precoated) [120 m2/m3]	m3	17.5			
<del></del>		ASPHALTIC CONCRETE			-		
245(c)	037	Dense Graded Asphalt - Wearing Course (A5S DG10 30mm thick)	m2	2098			
<del></del>							
261(a)	038	PAVEMENT MARKING All Line Types					
261(c)		Removal of Pavement Markings	LS LS	1 1			
				-			
271(g)	OAE	MINOR CONCRETE WORKS					
2/1(g)	045	Vehicle Crossings - Residential	each	3			
		LANDSCAPING					
		VEGETATION OF SLOPES 1 ON 3 OR FLATTER					
273(a)(ii)	116	Grass - Turfing	m2	150			
273(a)(iii)		Watering	kilolitre	8			
273(e)	115	Supply, Spreading and Placing of Imported Topsoil (50mm thick)	m3	8			
		OTHER PROJECT COSTS					
903(c)	089	Alteration of Services (Water Service Crossings) (PROVISIONAL)	LS	1			
					-		
****		SUB TOTAL					
		Survey	LS.				
		Geotechnical	LS				
		Design	LŞ				
		Design Administration	1.0%				
		Service Location	1.5%				
, ( )	005	Supervision	6.0%				
		Contingencies	10.0%				
	· · · ·	TATAL BROKET FORMAN					
		TOTAL PROJECT ESTIMATE				\$ 238,938	ĺ

### NOTES:

1. The TOTAL PROJECT ESTIMATE includes all overhead costs plus the cost of all *Provisional Items*. The SUB TOTAL is the cost of works without overhead costs and *Provisional Items*.

2. This estimate is based on the estimate provided by ESQ



### **INFRASTRUCTURE SERVICES PROJECT HANDOVER**



# **BRIEFING**

PROJECT DETAILS	S				
PROJECT NAME	Shellcot Stree	et – Flank Construction			
DEPARTMENT	Infrastructure	Services		REGION	Northern
PROGRAM	Roads Constr	uction		LOCALITY	Toogoom
BUDGET	\$650,000	DESIGN ESTIMATE	\$238,938	ACCOUNT	2.3436.67
PROJECT BRIEF			·		

### Scope:

This project involves the flank widening (pavement widening to the existing kerb and channel) and asphalt surfacing of Shellcot street between Jeppesen Road and Wave Court. This scope covers pavement construction & surfacing, property access improvement, and line marking.

### **Funding:**

2016/2017 Capital Works Budget - Roads Construction Design estimate is within the budget. No additional funds will be required.

### Staging:

No staging is required.

### **Other Comments:**

Nil

### **Design Enquiries Direct to Designer:**

Company: **Engineering Solutions Qld Pty Ltd** 

Name:

Mal Peaker

Phone:

PROJECT APPROVALS		
POSITION	STATEMENT	NAME AND DATE
DESIGN OFFICE COORDINATOR	Design has been checked against project scope for compliance with relevant design standards and specifications.	
MANAGER DESIGN	Design has been reviewed against project scope.	
EXECUTIVE MANAGER INFRASTRUCTURE DELIVERY	Design and estimate has been reviewed against scope and budget and adequate resources and funds are available to construct.	
DIRECTOR INFRASTRUCTURE SERVICES	Project released for construction and RPEQ certified where required.	

ITEM	DETAILS
Final Signed Design Drawings - Scanned	Docs #





### Aboriginal Cultural Heritage (ACH) and Native Title (NT) - Compliance for a Community Purpose Reserve

Date	6/10/16	Completed by	Craig Bottcher			
Property	Shellcot Street -	Toogoom				
Description of Works	Roadworks – Flank Sealing This project involves the flank widening (pavement widening to the existing kerb & channel) and bitumen sealing of Shellcot Street between Jeppesen Road and Wave Court.					

Activities, projects or initiatives by Council may affect either Aboriginal cultural heritage and/or native title. Before commencing any activity Council must ensure it has complied with the law so that the duty of care under the *Aboriginal Cultural Heritage Act* 2003 (Qld) is met and that every activity is valid under the *Native Title Act* 1993.

This checklist does not cover a cultural heritage find. All work in the vicinity of a find must stop immediately until the Aboriginal party for the area is consulted.

Doing an activity that is necessary because of a current emergency e.g. a bushfire or other natural disaster may proceed without undertaking any compliance as long as the act will also be carried out elsewhere (e.g. on freehold) if necessary.

Should you be unable to answer any of the questions or require clarification please contact your Supervisor or Michelle Knapp, Community & Development on 4197 4346.

### PRELIMINARY ASSESSMENT

Ste	ер		Go to:
X	1.	A. Is Council a party to either:  a registered Indigenous Land Use Agreement (ILUA); and/or  a cultural heritage agreement which covers the activity area?  **CURRENTLY COUNCIL HAS NOT ENTERED INTO ANY AGREEMENTS. 30/10/14**	Yes to 2 No to 6
	2	<ul> <li>A. Does the agreement cover both cultural heritage and native title compliance for the proposed activity area? If yes - go to Step 3.</li> <li>B. Does the agreement cover cultural heritage, but not native title compliance for the proposed activity area? If yes - go to Step 4.</li> <li>C. Does the agreement cover native title, both not cultural heritage compliance for the proposed activity area? If yes - go to Step 5.</li> <li>D. If the agreement does not cover either cultural heritage or native title compliance for the proposed activity area - go to Step 6.</li> </ul>	Yes to both 3 Yes to NT only to 4 Yes to ACH only to 5 No to 6
	3.	<ul> <li>A. Read the agreement/ILUA and then carry out the alternative compliance provisions for cultural heritage and native title detailed in the agreement.</li> <li>B. Note:- In some ILUAs the native title alternative compliance provisions only apply to some activities. If the ILUA does not address native title compliance for the activity - go to Step 6 for native title.</li> </ul>	Comply with Agreement
	4.	<ul> <li>A. Read the agreement/ILUA and then carry out the alternative compliance provisions for cultural heritage.</li> <li>B. Go to Step 6 for actions necessary to address native title.</li> </ul>	Comply with Agreement For NT go to <b>6</b>
	5.	<ul> <li>A. Read the agreement/ILUA and then carry out the alternative compliance provisions for native title.</li> <li>B. Note:- In some ILUAs the native title alternative compliance provisions only apply to <i>some</i> activities. If the ILUA does not address native title compliance for the activity - go to Step 6.</li> <li>C. Go to Step 6 for actions necessary to address Aboriginal cultural heritage.</li> </ul>	Comply with Agreement For ACH go to <b>6</b>

43217424

You have reached this step because there is no ILUA/ agreement to cover the statutory compliance For ACH go requirements. The checklist is now divided into separate steps for ACH and NT. Follow the steps relevant to the to 7 particular activity/area. For NT go The steps necessary to meet the ACH statutory duty of care commence at Step 7. to 13 The steps necessary to comply with the Native Title Act 1993 commence at Step 13. ABORIGINAL CULTURAL HERITAGE COMPLIANCE - STEPS Go to Step Complete a cultural heritage search by submitting the below form with DATSIMA. Note: allow 6 weeks for a 8 response. https://forms.business.gov.au/smartforms/derm/search-request-submission-form/ Search Ref: 13937 If ACH Response Received DOCS #3217427 identified -If the search result states cultural heritage may exist OR Council is otherwise aware that cultural heritage may go to Step exist in the proposed activity area - go straight to Step 12 12 A. Does the activity involve no surface disturbance? B. "Surface Disturbance" means any disturbance of an area which causes a lasting impact to the land or waters during the activity or after the activity has ceased. Examples:walking Yes driving along existing roads and tracks (within the existing alignment) or other infrastructure footprint Proceed aerial surveys No to 9 navigating through water cadastral, engineering, environmental or geological surveys using methods (such as GPS systems) which do not cause surface disturbance photography If the answer is "yes" the activity can proceed (Category 1 of the Duty of Care Guidelines) Will the activity cause no additional surface disturbance? "No Additional Surface Disturbance" means surface disturbance not inconsistent with previous surface disturbance. Examples:-Cultivation of an area which is currently subject to cultivation Grazing cattle on an area where cattle are currently grazed Yes -Use and maintenance of existing roads, tracks and power lines within the existing infrastructure alignment, or other Proceed infrastructure footprint Use, maintenance and protection of services and utilities (such as electricity infrastructure; water or sewerage No to 10 disposal) on an area where such services and utilities are currently being provided Use, maintenance and protection of services and utilities (such as electricity infrastructure; water or sewerage disposal) on an area immediately adjacent to where such services and utilities are currently being provided providing the activity does not involve additional surface disturbance Tourism and visitation activities on an area where such activities are already taking place If the answer is "yes" the activity can proceed (Category 2 of the Duty of Care Guidelines). Will the activity occur on a Developed Area? "Developed Area" means that the area is developed or maintained for a particular purpose such as use as a park, garden, railway, road or other access route, navigation channel, municipal facility or infrastructure facility, such Yes as power lines, telecommunication lines or electricity infrastructure. Examples: Proceed Use and maintenance of existing roads, tracks and power lines within the existing alignment, or other infrastructure No to 11 Use and maintenance of services and utilities (such as electricity infrastructure; water or sewerage disposal) on an area where such services and utilities are currently being provided. If the answer is "yes" the activity can proceed (Category 3 of the Duty of Care Guidelines).

16.		This does <i>not</i> include upgrades of existing infrastructure, or new construction, enhancements and the like that fall <u>outside the footprint</u> of a current structure.  If yes, the activity can proceed without any further compliance action	Yes – proceed
	Α.	Does the work only involve day-to-day maintenance, repair, or general use?	No to 22
15.	A.	Confirm the date when the <b>reserve was dedicated</b> (by gazette notice).  Was it on or before 23 December 1996?	Yes to 16
14.	Α.	The work cannot proceed until a new form of land tenure or authority is secured. Native title should be addressed when the tenure is changed.	Alternate tenure
13.	Α.	Check the gazetted purpose of the reserve. Is the proposed work clearly consistent with this purpose?	Yes to 15 No to 14
		NATIVE TITLE COMPLIANCE — STEPS  The checklist assumes native title has not been extinguished by a prior tenure grant over the area in question.	
		commences. This may involve undertaking an inspection of a site and reaching a written agreement about managing avoidance of harm to Aboriginal cultural heritage.	received)
		Arrange to meet and discuss the comments (these could undertaken done electronically)      Ensure agreement is reached about managing Aboriginal cultural heritage before any work	agreed (if comments are
12.	C.	*How to identify the Aboriginal Party - Refer to Aboriginal Cultural Heritage Internal Factsheet  If comments (verbal or written) are received from the Aboriginal party then:-	managem ent is
	B.	Send a notice to the Aboriginal Party* for the area seeking comments on the proposed activity – see Template Notice – Aboriginal Cultural Heritage.	Only proceed when ACH
	A.	The activity will cause additional surface disturbance and is a Category 5 activity under the Duty of Care Guidelines.	
	F.	If the answer is "yes" the activity can proceed (Category 4 of the Duty of Care Guidelines).	
	E.	If there is uncertainty about whether or not there is residual cultural heritage significance in the activity area, answer "No" to this question. The search result from Step 7 will assist in this assessment.	
	D.	feature, or the area immediately surrounding the feature which is inconsistent with the pre-existing Significant	
		Some hill and mound formations	
		X V	No to 12
12.0			
700			Yes - Proceed
			0
		Rock outcrops	
	C.	Landscape features, which may also have cultural heritage significance include:	
		ground, such as by ploughing, drilling or dredging.	
		b. there are no features of the area that may have residual cultural heritage significance?	
		<ul> <li>a. there has been Significant Ground Disturbance; and</li> </ul>	
	13.	D. E. F. A. B. 12. C. 13. A. 14. A.	b. there are no features of the area that may have residual cultural heritage significance?  B. "Significant Ground Disturbance" means: disturbance by machinery of the topsoil or surface rock layer of the ground, such as by ploughing, drilling or dredging.  C. Landscape features, which may also have cultural heritage significance include:  Rock outcrops  Caves  Rock outcrops  Caves  Foreshores and coastal dunes  Sand Hills  Areas of biogeographical significance, such as natural wetlands  Permanent and semi-permanent waterholes, natural springs.  Particular types of native vegetation  Some hill and mound formations  D. Extra care must be taken prior to proceeding with any activity that may cause additional surface disturbance to a feature, or the area immediately surrounding the feature which is inconsistent with the pre-existing Significant Ground Disturbance.  E. If there is uncertainty about whether or not there is residual cultural heritage significance in the activity area, answer "No" to this question. The search result from Step 7 will assist in this assessment.  F. If the answer is "yes" the activity can proceed (Category 4 of the Duty of Care Guidelines.  A. The activity will cause additional surface disturbance and is a Category 5 activity under the Duty of Care Guidelines.  Send a notice to the Aboriginal Party* for the area seeking comments on the proposed activity – see Template Notice – Aboriginal Cultural Heritage.  The voluments (verbal or written) are received from the Aboriginal party then:  a. Arrange to meet and discuss the comments (these could undertaken done electronically)  b. Ensure agreement is reached about managing Aboriginal cultural heritage before any work commences. This may involve undertaking an inspection of a site and reaching a written agreement about managing avoidance of harm to Aboriginal cultural heritage.  NATIVE TITLE COMPLIANCE – STEPS  The checkilst assumes native title has not been extinguished by a prior tenure grant over the area in question.  A. Check the gazetted

		A.	Is the work replacing or upgrading a public work commenced before 23 December 1996?	
		В.	Construction must have commenced before 23 December 1996, even if it finished after this date.	
X	17.	C.	A public work is the construction or establishment of a building or other structure (including memorials), roads, railway or bridge, a well or bore for water; any major earthworks (i.e. machinery is used to excavate, level or fill) and sometimes a stockroute – if validly constructed by or on behalf of Commonwealth, State or local government. The public work area is the footprint and any adjacent area necessary for or incidental for construction, establishment or operation of the work.	Yes – proceed No to 18
		D.	If yes for the entire area, the activity can proceed without any further compliance action. If no, for all or part of the area go to Step 18 for that area.	
	18.	Α.	Is the work replacing or upgrading a public work commenced after 23 December 1996?	Yes – to 19 No to <b>20</b>
		A.	Was a notice seeking comment sent to the (then) Native Title Party before construction of the public work commenced?	Yes – proceed
	19,	B.	If yes for the entire area where the new activity is proposed, the activity can proceed without any further compliance action. If no, for all or part of the area go to Step 20 for that area.	No to 21
	-			Yes - to <b>21</b>
	20.	A.	Does the work involve new works in an area where there has been no previous public works?	No – review
	and the same of th	В.	This would include any area outside the footprint of a previously constructed public work.	this checklist
		A.	Send a notice to the Native Title Party* for the area seeking comments on the proposed activity – see Template Notice – Native Title.	
			*How to identify the Native Title Party - Refer to Native Title Internal Fact Sheet*	Netles
	21.	B.	If comments (verbal or written) are received from the Native Title Party then:-	Notice and Comment
			<ul> <li>These must be considered before proceeding with the work and a decision made to either (i) proceed;</li> <li>(ii) proceed with changes made in response to comments; or (iii) not proceed.</li> </ul>	
		The	ere is no requirement to meet to discuss comments made (thought this could occur).	
	22	A.	Confirm the date when the reserve was dedicated (by gazette notice).	Yes to 23
	(Andreas)		Was it after 23 December 1996?	No to 15
		A.	Does the work only involve day-to-day maintenance, repair, or general use?	Yes -
	23.		This does <i>not</i> include upgrades of existing infrastructure, or new construction, enhancements and the like that fall <u>outside the footprint</u> of a current structure.	proceed No to 24
	_	В.	If yes, the activity can proceed without any further compliance action	91,043,454
	24.	A.	Is the work replacing or upgrading a public work commenced after 23 December 1996?	Yes - to 24
	24.	A.	Was a notice seeking comment sent to the (then) Native Title Party before construction of the public work commenced?	Yes – proceed
		В.	If yes for the entire area where the new activity is proposed, the activity can proceed without any further compliance action. If no, for all or part of the area go to Step 25 for that area.	No to <b>25</b>
				Yes - to 2:
	25.	A. B.	Does the work involve new works in an area where there has been no previous public works?  This would include any area outside the footprint of a previously constructed public work.	No – review





### Digital Data Search

Reference Number:	13937
Buffer Distance:	0 metres
15   SP158441   58   SP112889   1   RP142419   41     P158441   13   RP857892   230   MCH3     61   SP100122   14   RP857892   22   SP189512     15   RP857892   17   SP1895     87   RP857892   4   SP189512   17   SP1895     6   SP207803   7   SP189512   14   SP1     3   SP207803   10   SP189512	/ RP142101 14 / RP142100 42101 16 / RP142100 / RP142101 / 19 / RP142100 37 / RP142106 22 / RP142100 33 / RP142106 1 / SP178138 20 / SP161383 31 / RP142100 4 / SP178138 23 / SP161383 29 / RP142100 902 / SP178138 27 / RP142100 902 / SP178138 18   SP161383 26 / SP207792 88 / SP178138 10 / SP178138 18   SP161383 26 / SP207792 88 / SP178138 14 / SP178

There are no Aboriginal cultural heritage site points recorded in your specific search area.

There are no Aboriginal cultural heritage site polygons recorded in your specific search area.

Cultural heritage party for the area is:

QC Ref Number	QUD Ref Number	Name	Contact Details
QC2009/005	QUD288/2009	Butchulla Land & Sea Claim #2	Queensland South Native Title Services PO Box 10832 Adelaide Street BRISBANE QLD 4000  Phone: (07) 3224 1200 Free call: 1800 663 693 Fax: (07) 3229 9880 Email: reception@gsnts.com.au

Sep 27, 2016, 10:40 AM



### Digital Data Search

There is no cultural heritage body recorded in your specific search area.

There are no cultural heritage management plans recorded in your specific search area.

There are no Designated Landscape Areas (DLA) recorded in your specific search area.

There are no Registered Cultural Heritage Study Areas in your specific search area.

### **Regional Coordinator:**

	Position	Phone	Mobile	Email
Greg Heath	Cultural Heritage Coordinator Central Region		XO )	
		QiO)		
		er		
	Releasedun			
	06/6,0			
C.R.O				
40				

Sep 27, 2016, 10:40 AM



### Digital Data Search

I refer to your application in which you requested advice on Aboriginal cultural heritage places recorded on the above location.

I wish to advise that no Aboriginal cultural heritage is recorded on the Cultural Heritage Database and Register in your specific search area, from the data provided by you. However, it is probable that the absence of recorded Aboriginal cultural heritage places reflects a lack of previous cultural heritage surveys of the area. Therefore, our records are not likely to reflect a true picture of the Aboriginal cultural heritage values of the area.

All significant Aboriginal cultural heritage in Queensland is protected under the Aboriginal Cultural Heritage Act 2003, and penalty provisions apply for any unauthorized harm. Under the legislation a person carrying out an activity must take all reasonable and practical measures to ensure the activity does not harm Aboriginal Cultural Heritage. This applies whether or not such places are recorded in an official register and whether or not they are located in, on or under private land.

Aboriginal cultural heritage, which may occur on the subject property, is protected under the terms of the Aboriginal Cultural Heritage Act 2003 even if the Department of Aboriginal and Torres Strait Islander Partnerships has no records relating to it.

Please refer to our website www.datsip.qld.gov.au/people-communities/aboriginal-and-torres-strait-islander-cultural-heritage for a copy of the gazetted Cultural Heritage duty of care guidelines, which set out reasonable and practical measures for meeting the duty of care.

Should you have any further queries, please do not hesitate to contact the approval officer on 1300 378 401.

Kind regards

The Director

Cultural Heritage | Community Participation | Department of Aboriginal and Torres Strait Islander Partnerships

Sep 27, 2016, 10:40 AM

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# Safety in Design

### INFRASTRUCTURE SERVICES

### SAFETY IN DESIGN MATRIX

PROJECT LOCATION :	Challest Street Toogram	
PROJECT LOCATION :	Shellcot Street Toogoom	
PROJECT DETAILS :	Flank Construction	
DATE:	14/10/2016	
DOCS#	3221554	

	Consequences							
Likelihood	Insignificant  No Injury  0 - Iow \$ loss	Minor First Aid Injury low - medium \$ loss	Moderate  Medical Treatment medium - high \$ loss	Major Serious Injuries major \$ loss	Catastrophic  Death huge \$ loss			
Almost Certain is expected to occur at most times	H-40	H-48	E-72	E-84	E-100			
Likely will probably occur at most times	M-24	H-44	H-56	E-80	E-96			
Possible might occur at some time	L-12	M-28	H-52	E-76	E-92			
Unlikely could occur at some time	L-8	L-20	M-36	H-64	E-88			
Rare may occur in rare circumstances	L-4	L-16	M-32	H-60	H-68			

**RISK MATRIX** 

### LEGEND

E	Extreme risk
-	Immediate action required
н	High risk
п	Prioritised action required
	Moderate risk
M	Planned action required
	Low risk
L	Actioned by routine procedures

### **CONTROL OPTIONS**

ELIMINATE	-	eliminate the process,	material or	substa
CLIMINATE		completely		

SUBSTITUE - replace the process, material or substance with a safer one

ISOLATE - isolate the person(s) from the process,

ENGINEER - design or redesign the process, material or

substance

ADMINISTRATE - limit exposure to the risk by job rotal procedure, training

DDF - use protective equipment

11	HERENT R	ISK ASSE	SSMENT -	
NO TRE	ATMENTS	OR CON	TROLS IN PLACE	

## RESIDUAL RISK ASSESSMENT RISK LEVEL WITH IDENTIFIED TREATMENTS AND CONTROLS IN PLACE

				NO TREATMENTS OR CONTROLS IN PLACE		OLS IN PLACE			AND CONTROLS IN PLACE				
SERVICE / ACTIVITY PHASE	KEY RISK PERSPECTIVE	CONSIDERATIONS	POTENIAL HAZARDS	LIKELIHOOD	CONSEQUENCE	INHERENT RISK SCORE	CORE CONTROL	RESPONSIBILITY	ACTION	LIKELIHOOD	CONSEQUENCE	RESIDUAL RISK SCORE	RISK LEV (Y/N)
Design for Safe Construction	Construction Crews	Encountering existing underground services	Damage to existing services causing damage to services	Likely	Moderate	H-56	Review Dial Before You Dig information and locate services prior to design	Designer	Include Dial Before You Dig information in design and pot hole conflict points	Unlikely	Moderate	M-36	Y
			Damage to existing services causing injury	Possible	Major	E-76	Verify Dial Before You Dig and design information on site prior to excavation by potholing	Constructor	Review Dial Before You Dig and design information. Locate all existing services prior to excavation. Reconfigure existing services as appropriate.	Unlikely	Moderate	M-36	Y
		Insufficient clearance to overhead electrical conductors	Contact with overhead power lines causing injury	Possible	Catastrophic	E-92	Remove active electrical risk	Constructor	De-Energise or relocate overhead electricity to achieve recommended clearances	Rare	Minor	L-16	Y
			Contact with overhead power lines causing injury	Possible	Catastrophic	E-92	Flag power lines and include in WHS Plan	Constructor	Flag power lines and include in WHS Plan and Toolbox talks	Unlikely	Major	H-64	Y
		Passage of motorists through work site	Workers hit by plant	Possible	Major	E-76	Require exclusion zone around plant	Constructor	WHS Plan	Unlikely	Moderate	M-36	Y
			Workers hit by vehicles	Possible	Major	E-76	Separate construction activity from motorists	Constructor	Implement Traffic Guidance Plan	Unlikely	Moderate	M-36	Y
			Crashes with construction plant	Possible	Major	E-76	Separate construction activity from motorists	Constructor	Construct Side-track or Close Road and Detour Traffic	Unlikely	Moderate	M-36	Y
		Noise	Industrial deafness	Possible	Moderate	H-52	PPE	Constructor	WHS Plan enforced PPE	Unlikely	Minor	L-20	Y
		Contaminated air	Workers breathing dust, fumes of chemicals	Likely	Major	E-80	Eliminate source of dust	Constructor	Maintain surfaces with water truck	Unlikely	Minor	L-20	Y
			Workers breathing dust, fumes of chemicals	Likely	Major	E-80	PPE	Constructor	WHS Plan enforced PPE	Unlikely	Minor	L-20	Y
			Workers inhaling dry asbestos fibres	Possible	Major	E-76	PPE & Excavation Controls	Constructor	WHS Plan enforced PPE all escavation to be carried out by hand around AC conduits	Unlikely	Minor	L-20	Y
		Passage of pedestrians and/or bicyclists through work site	Fall hazard from rough by-pass route	Possible	Major	E-76	Make route safe	Constructor	Implement Traffic Guidance Plan and ensure surface is firm and smooth	Unlikely	Minor	L-20	Y
Design for Safe Use	Motorists	Errant Vehicles	Motorists collide with construction vehicle	Possible	Major	E-76	Design Traffic Management Plan in accordance with MUTCD	Constructor	Implement Traffic Management Plan	Unlikely	Moderate	M-36	Y
			Worker injury from vehicle conflicts	Possible	Major	E-76	Design detour and traffic control in accordance with MUTCD	Constructor	Implement Traffic Management Plan	Unlikely	Moderate	M-36	Υ
	Pedestrians	Pedestrian Crossings	Pedestrians struck by vehicle	Possible	Major	E-76	Provide pedestrian crossings in accordance with MUTCD if warrants met	Designer	Low pedestrian volumes don't require crossing	Possible	Moderate	H-52	Y
			Pedestrians assume right of way (RoW)	Possible	Major	E-76	Provide pedestrian crossing point or shared zone	Designer	Low pedestrian volumes don't require crossing	Unlikely	Minor	L-20	Υ
	Cyclists	Road space	Cyclist stuck by vehicle	Possible	Major	E-76	Provide on-road bicycle lane in accordance with Austroads	Designer	Low cyclist volumes and sufficent road width on shoulder for cyclists	Unlikely	Minor	L-20	Υ
			Cyclist stuck by vehicle	Possible	Major	E-76	Provide alternate route off-road	Designer	low cyclist volumes no need for off road bycicle route	Unlikely	Minor	L-20	Y
Design for Safe Maintenance	Maintenance Crews	All maintenance operations	Plant and/or workers struck by motorists	Possible	Major	E-76	Separate Workers from Traffic	Operations	Traffic Management Plan - Maintenance	Unlikely	Minor	L-20	Y
	Motorists	Linemarking	Motorists hit plant and/or workers	Possible	Major	E-76	Working on road WHS Management Plan - MUTCD	Operations	Traffic Management Plan - Maintenance	Unlikely	Minor	L-20	Y
		Pavement Repairs	Motorists hit plant and/or workers	Possible	Major	E-76	Working on road WHS Management Plan - MUTCD	Operations	Traffic Management Plan - Maintenance	Unlikely	Minor	L-20	Y
	Pedestrians	Pedestrians and maintenance activity	Pedestrians forced to walk on road and being struck by vehicle	Possible	Major	E-76	Provide safe pedestrian walk - around work site in accordance with MUTCD	Operations	Traffic Management Plan - Maintenance	Unlikely	Moderate	M-36	Y
			Pedestrian being struck by maintenance vehicle	Possible	Major	E-76	Maintain separation between pedestrians and work site	Operations	Provide safety fencing of work site	Unlikely	Major	H-64	Υ
	Cyclists	Cyclists and maintenance activity	Cyclist forced off road or into traffic path	Possible	Moderate	H-52	Provide safe cyclist ride - around work site in accordance with MUTCD	Operations	Traffic Management Plan - Maintenance	Unlikely	Minor	L-20	Y
			Cyclist being struck by maintenance vehicle	Possible	Major	E-76	Maintain separation between cyclists and work site	Operations	Provide safety fencing of work site	Unlikely	Minor	L-20	Y



### **RISK MATRIX**

# Safety in Design

### INFRASTRUCTURE SERVICES

REGIONAL COUNCIL	SAFETY IN DESIGN MATRIX	
PROJECT LOCATION :	Shellcot Street Toogoom	
PROJECT DETAILS :	Flank Construction	
DATE :	14/10/2016	
DOCS#	3221554	

			Consequences					
Likelihood	Insignificant  No Injury 0 - low \$ loss	Minor First Aid Injury Iow - medium \$ loss	Moderate  Medical Treatment medium - high \$ loss	Major Serious Injuries major \$ loss	Catastrophic  Death huge \$ loss			
Almost Certain is expected to occur at most times	H-40	H-48	E-72	E-84	E-100			
Likely will probably occur at most times	M-24	H-44	H-56	E-80	E-96			
Possible might occur at some time	L-12	M-28	H-52	E-76	E-92			
Unlikely could occur at some time	L-8	L-20	M-36	H-64	E-88			
Rare may occur in rare circumstances	L-4	L-16	M-32	H-60	H-68			

L	Ε	G	Ε	N	

Е	Extreme risk	
-	Immediate action required	
н	High risk	
п	Prioritised action required	
M	Moderate risk	
IVI	Planned action required	
1	Low risk	
-	Actioned by routine procedures	

### **CONTROL OPTIONS**

ELIMINATE	-	eliminate the process, material or substanc completely
SUBSTITUE	-	replace the process, material or substance with a safer one

ICOL ATE	isolate the person(s) from the process

isolate - material or substance

ENGINEER - design or redesign the process, material or

ADMINISTRATE - limit exposure to the risk by job rotation procedure, training

PPE - use protective equipment

					RENT RISK ASSESS MENTS OR CONTR			S.		RISK LEVEL	DUAL RISK ASSESS WITH IDENTIFIED ID CONTROLS IN F	TREATMENTS	
SERVICE / ACTIVITY PHASE	KEY RISK PERSPECTIVE	CONSIDERATIONS	POTENIAL HAZARDS	LIKELIHOOD	CONSEQUENCE	INHERENT RISK SCORE	CORE CONTROL	RESPONSIBILITY	ACTION	LIKELIHOOD	CONSEQUENCE	RESIDUAL RISK SCORE	ACCEPTABLE RISK LEVEL (Y/N)
Design for Safe Demolition	Workers	Asbestos based materials exist within structure	Workers inhaling dry asbestos fibres	Possible	Major	E-76	Prevent Airborne Asbestos Fibres	Demolition Firm	Encase/encapsulate fibres and bury at licensed landfill site	Unlikely	Minor	L-20	У
Demontion			Workers inhaling dry asbestos fibres	Possible	Major	E-76	Prevent Airborne Asbestos Fibres	Demolition Firm	Maintain material in a damp condition	Unlikely	Minor	L-20	У
			Workers inhaling dry asbestos fibres	Possible	Major	E-76	Prevent Airborne Asbestos Fibres	Demolition Firm	Leave in ground if buried	Unlikely	Minor	L-20	У

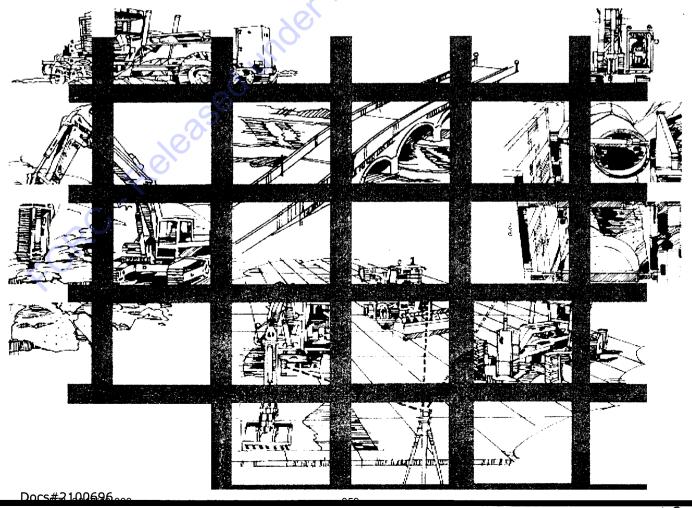


# CONSTRUCTION WORK HEALTH AND SAFETY MANAGEMENT PLAN

### **FOR**

**Shellcott Street, Toogoom** 

Pavement Widening, Road Sealing, and Associated Drainage
2012 Version



#3211852

### 1.0 Project Information

Project Address / location/s	Shellcott Street, Toogoom Qld.	
Planned Commencement Date	Commencement –	
	Completion –	
	(Insert dates here)	

Client	Principal Contractor (PC) Where identified.
Client Name and Address;	Principal Contractor Name and Address
Fraser Coast Regional Council, PO Box 1943 Hervey Bay QLD 4655	FCRC
Ph: 1300794 929	
Client's ABN: 19277850689	Principal Contractor ABN (Insert details here)
	*O
Chief Executive Officer or officer appointed by the Chief Executive Officer (A supervisor is an officer appointed by the CEO)	Date / /

### 2.0 Project Work and Risks

### 2.1Scope of Project Work

Rehabilitation of existing road pavement and drainage in Shellcott Street, Toogoom.

The work shall consist of:-

- Pavement widening
- Road sealing
- Drainage

### 2.2 Project Risks and Methods of Control

Several abbreviations are used throughout this plan. Their definitions are as follows:-

PPE Personal Protective Equipment

MUTCD Manual of Uniform Traffic Control Devices published by Queensland Transport

SDS Safety Data Sheet - contains information on hazardous substances

ROPS Roll Over Protection System

Docs # 3211853 2 Revision 1. 24/07/2017

RTI 2017/18-003 060

### **Fraser Coast Regional Council Construction Work Health and Safety Management Plan**

**FOPS** Falling Object Protection System

**RCD** Residual Current Device - device that protects people against electrocution

**SWL** Safe Working Load ECRC. Released under Right to Information Act. 2009

Docs # 3211853 Revision 1. 24/07/2017

RTI 2017/18-003 061

# Construction Work Health and Safety Management Plan

# Fraser Coast Regional Council

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No.	ACTIVITY	HAZARD TYPE (What are the	RISK (What are	SCORE Before controls	CONTROL MEASURE (Include provision for monitoring)	SCORE after controls
		hazards?)	the risks?)	are put in place	(How will hazards and risks be controlled?)	are pur in place
4	Work involving manual handling	Pushing, pulling, reaching, lifting	Back injury Strains and sprains	der Ries	<ol> <li>Use mechanical means (earthmoving equipment) to minimise manual work.</li> <li>Vary tasks to reduce exposure to bending and lifting.</li> <li>When lifting, bend legs and hold load close to the body.</li> <li>Workers to observe maximum weight flag points:-         <ul> <li>20 - 55kg: mechanical assistance or team lifting should be used.</li> <li>Over 55kg: no worker to lift unless mechanical assistance or team lifting arrangements are made.</li> </ul> </li> <li>Use appropriate PPE (e.g. gloves).</li> <li>Workers to follow any relevant safe working procedures.</li> <li>Workers to report any manual handling injuries.</li> <li>10.</li> </ol>	
7	High Risk Construction Work which is carried out on, in or adjacent to a road, railway, shipping lane or other traffic corridor that is used by traffic other than pedestrians. (Note: A Safe Work Method Statement is to be filled out for this work AND ATTACHED TO	Being struck by vehicles	Serious bodily injury Damage to plant and property		<ol> <li>Use appropriate PPE (e.g. high visibility vests).</li> <li>Road signage, traffic control and lighting as per Part 3 MUTCD.</li> <li>Implement traffic control where high traffic volumes exist or visibility is poor.</li> <li>High visibility traffic cones or barricades around worksite where appropriate.</li> <li>Plan work to minimise disruption to established traffic flows and peaks.</li> <li>Locate equipment and screenings so as not to create a hazard for traffic or road plant, obscure signs or block lines of sight.</li> </ol>	

Revision 1. 24/07/2017

Fras	Fraser Coast Regional Council	nal Council		Constru	Construction Work Health and Safety Management Plan	
3 a)	Outdoor Work - Exposure to excessive sunlight	Ultraviolet radiation	Skin damage Long term health effects	i, v. v. v.	Wear broad brimmed hat and long sleeved shirt. Use Factor 30+ broad-spectrum sunscreen. Workers to make use of available shade - especially during meal breaks.	
3 b)	Exposure to excessive heat	Неат	Heat stress Heat stroke	1.5 6.4.7.0	Wear broad brimmed hat and long sleeved shirt Workers to make use of available shade - especially during meal breaks Adequate supply of drinking water is available Job rotation for heavy manual handling work	

	ACTIVITY	HAZARD TYPE (What are the hazards?)	RISK (What are the risks?)	SCORE Before controls are put in place	CONTROL MEASURE (Include provision for monitoring) (How will hazards and risks be controlled?)	SCORE after controls are put in place
High Risk Construction Work that Is carried out o or near energised electrical installations	High Risk Construction Work that Is carried out on or near energised electrical installations or	Electrical	Electrocution Electrical shock Property damage		<ol> <li>Maintain adequate clearance from overhead cables         <ul> <li>(minimum clearance 3 metres) and underground services.</li> </ul> </li> <li>Organise with Electricity Corporation to locate underground services before excavating.</li> <li>Organise with Electricity Corporation to de-energise or protect power cables and electrical equipment where safe clearance cannot be maintained.</li> <li>Never drive probes into the ground to find power cables.</li> </ol>	
Services.  (Note: A Safe Work Method Statement is to be filled out fo this work AND ATTACHED TO THIS PLAN.)	Services.  (Note: A Safe Work Method Statement is to be filled out for this work AND ATTACHED TO THIS PLAN.)	Water and sewer mains, cables, Telstra, Gas etc.	Property damage			

Fra	Fraser Coast Regional Council	nal Council	0	onstru	Construction Work Health and Safety Management Plan	
				5.	Barricades erected to prevent mobile plant contacting service.	
		3		.9	Prompt notification of authority if service is damaged.	
		Ç				
ro.	Work performed	Contact with	Burns	1.	Appropriate training for personnel handling these	
	dangerous or	through	Long term	2.	Identify all dangerous/hazardous substances on site.	
	hazardous	inhalation,	health	m.	Obtain the appropriate SDS for substance.	
	substances.	ingestion or skin	effects.	4	Follow instructions given by manufacturer.	
		absorption /	C	5.	Use appropriate PPE (e.g. gloves, respirator, chemical	
		contact.	0		goggles).	
			7	9	Regular servicing and maintenance of equipment used with	
					hazardous substances (eg. spray equipment).	
			55	7.		
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Revision 1. 24/07/2017

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Fraser Coast Regional Council	onal Council		Ö	struction Work	Construction Work Health and Safety Management Plan	
this work AND ATTACHED TO THIS PLAN.)	K CKC			block lines or	block lines of sight or obscure signs.	
	Falling objects	Serious bodily injury. Damage to plant and property.		<ol> <li>Use plant with FOPS.</li> <li>2.Pre-start inspection slings and plant liftin Workers and public the Appropriate use of PF S.</li> <li>SWL of lifting devices</li> </ol>	Use plant with FOPS.  2. Pre-start inspection and periodic testing of lifting chains, slings and plant lifting attachments.  Workers and public to be kept clear of objects being lifted.  Appropriate use of PPE (eg. hard hats, high visibility jacket)  SWL of lifting devices to be observed.	
	Noise	Hearing damage	der	<ol> <li>Select equipmen devices.</li> <li>Driver rotation.</li> <li>Use correct PPE 4. Periodic audio environments.</li> </ol>	Select equipment fitted with silencers or noise suppression devices.  Driver rotation. Use correct PPE (e.g. ear muffs).  4.Periodic audiometric testing of workers exposed to noisy environments.	
	Mechanical failure	Serious bodily injury. Damage to plant and property.	570	1. Operator to Operator to Operator to Regular serv Operator to 5.	Operator to complete pre-start checks and servicing.  Operator to report any faults with plant to workshop.  Regular servicing of plant by workshop.  Operator to follow manufacturer's operational guidelines.	
				KOKI	rmation Act 2009	
Docs # 3211853				7	Revision 1. 24/07/2017	

# Construction Work Health and Safety Management Plan

# Fraser Coast Regional Council

Project Risks and Methods of Control (A risk assessment to gain a risk score, using the risk calculator, is to be carried out and documented)

O	ACTIVITY	HAZARD TYPE (What are the hazards?)	RISK (What are the risks?)	SCORE Before controls are put in place		CONTROL MEASURE (Include provision for monitoring) (How will hazards and risks be controlled?)	SCORE after controls are put in place
(e b)	Work performed with soil moisture and density gauge.	Exposure to ionising radiation.	Burns. Long term health effects.		1.5 6.4 7.0	Only trained personnel permitted to use gauge. Gauge used, stored and transported in accordance with Council safe work procedures and relevant codes of practice. Monitor radiation levels radiation workers receive. 3 metre exclusion zone around gauge for untrained workers. Routine safety inspections carried out on gauge. Radiation Safety Officer appointed.	
( c )	Work performed with lasers.	Exposure to radiation.	Eye damage.	Set P	1.5 8.4	Provide training to operators.  Laser safety officer to be present when using class 3B or 4 lasers.  Erect warning signs. Follow safe working procedures.	
( p 9	Work performed with power equipment/ tools.	Noise. Foreign Bodies. Electrical	Hearing damage and/or loss.  Eye and face damage.  Electrocution. Electric shock.			Select equipment with silencers etc.  Isolate noise source. Rotate workers. Use appropriate PPE (e.g. ear muffs).  Use appropriate PPE (e.g. safety glasses, face shield) Guards on tools not to be removed or modified Use residual current devices (RCD's). Maintain tools and leads in good condition. Protect leads from damage and emersion in liquids. Check equipment before use for damage. Licensed electrician to periodically test and tag electrical equipment. Equipment. Equipment to have current electrical safety tag attached. Electrician.	

# Fraser Coast Regional Council

Proje	ect Risks and Me	ethods of Control	(A risk assessm	ent to gain a ris	Project Risks and Methods of Control (A risk assessment to gain a risk score, using the risk calculator, is to be carried out and documented)	nented)
NO.	ACTIVITY	HAZARD TYPE (What are the hazards?)	RISK (What are the risks?)	SCORE Before controls are put in place	CONTROL MEASURE (Include provision for monitoring) (How will hazards and risks be controlled?)	SCORE after controls are put in
( e d)	Work performed with power equipment/too ls (continued)	Vibration Dust	Tissue damage. Sprains & strains. Long term health problems	"Ger Sie	<ol> <li>Minimise worker exposure to vibration by considering alternative methods.</li> <li>Rotate workers.</li> <li>Sotate workers.</li> <li>Use appropriate PPE (e.g. anti vibration gloves)</li> <li>Use equipment and work procedures that minimise the generation of dust (e.g. circular saw with dust collection bag, score and snap method of cutting fibrous sheet)</li> <li>Wear appropriate PPE (e.g. respirator)</li> <li>Ensure dust containment during cleanup (e.g. wet down method or vacuum)</li> <li>Safe disposal of dust</li> <li>Safe disposal of dust</li> </ol>	g se the llection ) t down
2.	Bitumen Sealing	Hot bitumen. Bitumen and additive fumes.	Burns Long term health effects. Explosion.		<ol> <li>Wear appropriate PPE.</li> <li>Minimise exposure of workers to bitumen fumes and spray.</li> <li>Have appropriate first aid facilities on site including adequate amounts of fresh water for the treatment of bitumen burns.</li> <li>No smoking or naked flames within 15 metres of flammable liquids (eg. hot bitumen, bitumen cutter).</li> <li>Ensure bitumen is free of water contamination before heating.</li> </ol>	. of

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If possible choose different work method that does not

require persons to enter the excavation

High Risk Construction	Trench or	Suffocation Serious hodily	1.	н.
	collapse	injury	2.	. ш
	2		3.	_
or near a shaft			4	_

High Risk

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distance to prevent collapse of excavation sides	distance to prevent collapse of excavation sides	
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	

Batter, bench or use trench shielding to prevent collapse

Keep water out of trench

ed over trench	cing and/or sign
being lifte	using fen
Keep people clear of loads being lifted over trench	Barricade hazardous areas using fencing and/or signa
Keel	Barr
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Serious bodily

Falling objects

Statement is to be filled out for this work AND

(Note: A Safe

metres, or a

tunnel.

Work Method

ATTACHED TO

THIS PLAN.)

Use appropriate PPE (e.g. hard hats)

oads must be with the SWL limits of the chain or sling Lifting chains and slings to be inspected prior to use

(solate internal combustion engines (e.g. pumps) from excavation to prevent atmospheric 6 5.4 %

If contamination exists, monitor and ventilate contamination

Barricade trenches/excavations using fencing atmosphere œ

or trench with

depth greater

than 1.5

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Fras	Fraser Coast Regional Council	nal Council		S	nstruc	Construction Work Health and Safety Management Plan	_
6	High Risk Construction Work that is carried out in or near a confined space. (Note: A Safe Work Method Statement is to be filled out for this work AND ATTACHED TO THIS PLAN.)	Gases Heat stress	Asphyxiation Suffocation Serious bodily injury Explosion		7. 6. 4. 3. 7.	Follow safe working procedures If possible, choose different work method that does not require persons to enter confined space. Provide training in entry procedures and rescue techniques Workers to complete a risk assessment and entry permit before entering the confined space. Monitor confined space atmosphere for contaminants Use appropriate safety equipment (e.g. harness, Rescue Master and tripod, self contained breathing apparatus) Use appropriate PPE (e.g. hard hats)	
10.	High Risk Construction Work that involves a risk of a person falling more than 2 metres (Note: A Safe Work Method Statement is to be filled out for this work AND ATTACHED TO THIS PLAN.)	Falling	Serious bodily injury	ser Piles	.: 7. 6.	Workers not permitted to work above 2.0 metres in height unless an adequate fall protection system (eg. safety harness, scaffolding) is provided. Where an elevating work platform is used, workers shall wear safety harness correctly attached to platform's anchor point.  Workers to use appropriate PPE (e.g. hard hats).	4

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Fra	Fraser Coast Regional Council	onal Council		CO	nstruc	Construction Work Health and Safety Management Plan	
11.	Working with Concrete	Inhalation of crystalline silica	Minor irritation to		1. 2	Use power tools fitting with dust extracting/ minimising equipment (e.g. water fed concrete saw).	
		the cutting of	bodily		. w.	Minimise crystalline silica dust if cleaning up,	
		concrete.	injury.		4	through the use of water. Safe disposal of dust.	
		?			+	Minimise the length of time steel bars are left protruding.	
		Falling on	Minor to		2. 6.	Use protective caps over the end of protruding steels bars. Fence off areas with protruding steel bars.	
		protruding steel bars.	serious				
		Trips	injury.				
			),		-i c	Use appropriate PPE, including gloves and eye protection.	
		Chemical burns from concrete	Minor to	Sei	,	Follow nandling instructions on SDS	
		and cement	burns to the	8			
		aust.	eyes and skin.	76			
			Dermatitis.	5	Č		

NO.	ACTIVITY	HAZARD TYPE (What are the hazards?)	RISK (What are the risks?)	SCORE Before controls are put in place	CONTROL MEASURE (Include provision for monitoring) (How will hazards and risks be controlled?)	ed?)	SCORE after controls are put in place	
12.	Installation of underground electrical cabling.	Electrical	Electrocution. Electric shock.		<ol> <li>Only licensed electrical contractors permitted to work on electrical circuits.</li> <li>Appropriate permits are obtained from the Electricity Corporation.</li> <li>Electrical contractor when working on electrical circuits uses lockout procedures.</li> </ol>	I to work on ectricity al circuits		

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Ö	Fraser Coast Regional Council	onal Council		S	nstru	Construction Work Health and Safety Management Plan	
	High Risk Construction Work that involves demolition of an element of a structure that is load – bearing or otherwise related to physical integrity of the structure. (Note: A Safe Work Method Statement is to be filled out for this work AND ATTACHED TO THIS PLAN.)	Falling objects Asbestos Hazardous substances	serious injury	inder Pile	- 7	Statement. Demolition is to be carried out in accordance with the requirements of Australian Standards.	
	High Risk Construction Work that involves, or is likely to involve, the disturbance of Asbestos. (Note: A Safe Work Method Statement is to be filled out for this work AND ATTACHED TO THIS PLAN.)	Lung disease	Death or serious illness		.5 -7	Follow safe work practices and Safe Work Method Statement. Asbestos management and removal is to be carried out in accordance with the WH&S Regulations and codes of practice for asbestos.	

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Mon Act 2009

Ⅱ	Fraser Coast Regional Council	nal Council		Cor	nstru	Construction Work Health and Safety Management Plan	_
16	High Risk	Hazardous	Burns		1.	Follow safe work practices and Safe Work Method	
9	Construction	substances	Serions injury			Statement.	
	Work that is	\frac{1}{2}	Death				
	carried out on	2-					
	or near						
	pressurised						
	gas	2					
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	Statement Is		Ç				
	to be filled out		>				
	for this work		<u></u>				
	AND ATTACHED			3			
	TO THIS PLAN.)			5			
17.		Collapse	Death or	<u></u>	1.	Follow safe work practices and Safe Work Method	
	Construction	Falling objects	serions injury	2		Statement.	
	Work that						
	involves tilt-				X		
	up precast				Š		
	concrete						
	(Note: A Safe						
	Work Method						
	Statement is						
	to be filled out						
	for this work						
	AND ATTACHED						
	TO THIS PLAN.)						

Fras	Fraser Coast Regional Council	nal Council		Construction Work Health and Safety Management Plan	
18.	High Risk Construction Work that is carried out in or near water or other liquid that involves a risk of drowning. (Note: A Safe Work Method Statement is to be filled out for this work AND ATTACHED TO THIS PLAN.)	Drowning	Serious injury	1. Follow safe work practices and Safe Work Method Statement.	
19	(Note: A Safe Work Method Sta High Risk Construction Work that:	Tork Method State	ement is also to	(Note: A Safe Work Method Statement is also to be filled out for high risk activities which include: High Risk Construction Work that:	
	Is carried out on, Involves a risk of Is carried out on a Involves demolitic Involves, or is like Involves structura Is carried out in o Is carried out in o Is carried out on o Is carried out in a	Is carried out on, in or adjacent to a road, railway, shipping lane or o Involves a risk of a person falling more than 2 metres Is carried out on a telecommunication tower Involves demolition of an element of a structure that is load -bearing Involves, or is likely to involve, the disturbance of Asbestos. Involves structural alterations or repairs that require temporary supplis carried out in or near a confined space. Is carried out in or near a shaft or trench with an excavated depth granvolves the use of explosives. Is carried out on or near pressurised gas distribution mains or piping. Is carried out on or near chemical, fuel or refrigerant lines. Is carried out on or near energised electrical installations or services. Is carried out in an area that may have a contaminated or flammable Involves tilt-up precast concrete. Is carried out in an area where there are artificial extremes of temper is carried out in or near water or other liquid that involves a risk of discovered out in or near water or other liquid that involves a risk of discoves diving work.	to a road, railway, a more than 2 metication tower int of a structure the disturbance of repairs that required space.  It fuel or refrigerated electrical instally have a contamin, which there is any refree are artificial enother liquid that in other liquid that in	Is carried out on, in or adjacent to a road, railway, shipping lane or other traffic corridor that is used by traffic other than pedestrians.  Involves a risk of a person falling more than 2 metres  Is carried out on a telecommunication tower  Involves, of emplition of an element of a structure that is load –bearing or otherwise related to physical integrity of the structure.  Involves, of emplition of an element of a structure that is load –bearing or otherwise related to physical integrity of the structure.  Involves, of emplition of an element of a structure that is load –bearing or otherwise related to physical integrity of the structure.  Is carried out in or near a confined space.  Is carried out in or near a shaft or trench with an excavated depth greater than 1.5 metres, or a tunnel.  Involves the use of explosives.  Is carried out on or near pressurised gas distribution mains or piping.  Is carried out on or near energised electrical installations or services.  Is carried out on or near that may have a contaminated or flammable atmosphere.  Involves tilt-up precast concrete  Is carried out in an area that may have a contaminated or flammable atmosphere.  Is carried out in an area where there are artificial extremes of temperature  Is carried out in an area where there are artificial extremes of temperature  Is carried out in or near water or other liquid that involves a risk of drowning.  Involves during work.  THESE "completed "SAFE WORK METHOD STATEMENTS ARE REQUIRED TO THIS PLAN.)	
War	'ning: Under no c	circumstances are	any other autho	Warning: Under no circumstances are any other authorities (owners) utility services (e.g. electricity, gas, telephone, water,	

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RTI 2017/18-003

Warning: Under no circumstances are any other authorities (owners) utility services (e.g. electricity gas, telephone, water, waste water) to be interfered with or moved without the authorities written consent.

Revision 1. 24/07/2017

Docs # 3211853

# Construction Work Health and Safety Management Plan

## Fraser Coast Regional Council

<b>Pro</b> and	Project Specific Risk and documented)	s and Methods o	f Control (On	the job site)	Project Specific Risks and Methods of Control (On the job site) (A risk assessment to gain a risk score, using the risk calculator, is to be carried out and documented)	e carried out
o.	ACTIVITY	HAZARD TYPE (What are the hazards?)	RISK (What are the risks?)	SCORE Before controls are put in place	CONTROL MEASURE (Include provision for monitoring) (How will hazards and risks be controlled?)	SCORE after controls are put in place
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					<b>7</b> 0	
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### 3.0 Responsibilities

### 3.1 Person Conducting the Business or Undertaking (PCBU) / Chief Executive Officer

The Person Conducting the Business or Undertaking (PCBU) / Chief Executive Officer is responsible for any outcomes from hazards or risks associated with the organisation.

### 3.2 Principal Contractor

The Principal contractor is responsible for any outcomes from hazards or risks associated with the construction work.

### 3.3 Directors/ Executive Managers/ Managers

Directors / Executive Managers / Managers are responsible for ensuring the development and implementation of management systems, plans, policies and procedures.

### 3.4 Work Health and Safety Advisor

The Work Health and Safety Advisor is directed by management and responsible to ensure compliance with legislation by all workers.

### 3.5 Supervisors

Supervisors are responsible for:-

- Ensuring that the Construction Work Health and Safety Management Plan and Safe Work Method Statements are fully implemented in accordance with Work Health and Safety Legislation.
- Ensuring that workers, contractors/ sub-contractors, visitors and volunteers at the
  worksite are aware of and comply with the Construction Work Health and Safety
  Management Plan, Safe Work Method Statement and any other relevant Council policies
  and procedures
- Ensuring risk management processes are followed and risk assessments are conducted and documented.
- Ensuring that hazard inspections are conducted on a regular basis and that any hazards found are rectified quickly.
- Ensuring that all incidents, accidents and injuries are recorded and reported to the Work Health and Safety Advisor.
- Checking that workers and contractors/ sub-contractors under their control are trained, competent and have the relevant certificates.
- Monitoring general health and safety compliance on the worksite. They will also be responsible for consulting with any worker regarding health and safety issues.
- Conducting or organise pre-work meetings/ discussions with workers and any contractors/ sub-contractors to discuss health and safety issues (eg. Construction Work Health and Safety Management Plan) relevant to the project.
- Requesting a Safe Work Method Statements from any contractors/ sub-contractors conducting high-risk construction work at the worksite.

- Where applicable, assess, monitor and review Safe Work Method Statements provided by contractors/ sub-contractors.
- Prepare and maintain Fraser Coast Regional Council's Construction Work Health and Safety Management Plan.
- Forward Council's Construction Work Health and Safety Management Plan to any contractors/ sub-contractors involved in the project.
- Do periodic, documented inspections of the site and advise managers, supervisors and any contractors/ sub-contractors of the level of compliance with policies, procedures and work practices.
- Where required, Investigate any work health and safety concerns, incidents and injuries at the worksite.

### 3.6 Workers

Workers are responsible for:

- Following any work health and safety instructions and comply with the Construction Work Health and Safety Management Plan, Safe Work Method Statements and any other relevant Council policies and procedures.
- Informing the Supervisor of any work health and safety concerns or problems;
- Ensuring risk management processes are followed and risk assessments are conducted and documented.
- Reporting all identified hazards and risks to their Supervisor; and
- Taking reasonable care to ensure that they do not place themselves or others at risk of injury or illness.

### 3.7 Work Health and Safety Committee

A Work Health and Safety Committee is available. Any work health and safety issues occurring at the worksite, including injuries and incidents, shall be referred, in the first instance to the Supervisor and then to the respective Health and Safety Representative.

### 4.0 Contractor/ Sub-Contractor Management

- Any contractors/ sub-contractors engaged by Fraser Coast Regional Council on this
  project need to fulfil the following requirements: -Safe Work Method Statement for any
  high-risk activities to be conducted at the workplace.
- Before work starts, meet with Fraser Coast Regional Council's Depot Health and Safety Representative (where elected) and job Supervisor to discuss the projects health and safety requirements, the contractor's/ sub-contractor's Safe Work Method Statement and any other specific information relating to the contractor's/ sub-contractor's activities.
- Make reasonable additions to the Safe Work Method Statement as requested by Fraser Coast Regional Council.
- Contact Fraser Coast Regional Council's Work Health and Safety Advisor immediately following any incident, injury, near miss or emergency at the worksite.
- Discuss with Fraser Coast Regional Council's Work Health and Safety Advisor any work health and safety activity or risk identified that cannot be managed.
- Conduct work activities in a safe manner and in accordance with the requirements of Fraser Coast Regional Council, Safe Work Method Statements and work health and safety legislation.

A register of contractors/ sub-contractors used in this project shall be maintained in the Contractor/ Sub-contractor Register (see Appendix 1).

Contractor's/ Sub-contractor's Safe Work Method Statement shall be formally reviewed to ensure they comply with the requirements of the Work Health and Safety Regulations.

Fraser Coast Regional Council's worksite supervisor and Council Work Health and Safety Advisor will conduct regular inspections to review the Contractor's/ subcontractor's work health and safety performance.

Fraser Coast Regional Council will take the following action for any health and safety issues identified at the worksite: -

- For minor issues the contractor/ subcontractor will be given a verbal direction indicating
  what the issue is and what needs to be done to resolve the issue. The Council worker
  giving this direction should note the details in their diary.
- For major health and safety concerns where there is imminent risk to a worker or other person, the contractor/ subcontractor will stop work. Work will not recommence until the contractor/ subcontractor has put adequate controls in place.
- For ongoing health and safety non-compliances of a high-risk nature, contractors/ subcontractors may be directed to cease work in accordance with a breach of the contract. (Where this occurs, the non-compliance will be placed in Council's Contractor Performance Register).

### 5.0 Site Inspections

Council's worksite supervisor will conduct documented work health and safety inspections of the project. These inspections shall be conducted on at least a fortnightly basis using the WH & S Site Inspection Checklist (refer to Appendix 2).

Council's Work Health and Safety Advisor will also regularly monitor the project's work health and safety performance and make recommendations where appropriate.

### 6.0 Public Safety/Access and Workplace Security

To ensure the safety of the public at our worksite, Fraser Coast Regional Council will: -

- Ensure work is conducted in accordance with the Construction Work Health and Safety Management Plan and Safe Work Method Statements.
- Ensure all roadworks are signed in accordance with Queensland Transport's, Manual of Uniform Traffic Control Devices Part 3 – Works on Roads.
- Display other appropriate safety signage at the worksite (eg. "Construction Site Do Not Enter Authorised Personnel Only").
- Barricade trenches and excavations where there is a risk to the public exist.
- Where appropriate for public safety, use a spotter to guide vehicles and equipment reversing onto or off the worksite.
- Ensure that members of the public and non authorised persons do not enter the construction work area.

The person with management or control of a workplace at which construction work is being carried out must ensure so far as is practicable that the workplace is secure from unauthorised access and must have regard to matters including:

- Risks to health and safety arising from unauthorised access to the workplace
- The likelihood of unauthorised access occurring; and

 The extent that where unauthorised access to the workplace cannot be prevented – how to isolate hazards within the workplace.

Examples of how public safety, access and security will be controlled will be by the use of lockable perimeter fencing where applicable, locking electrical switchboards, securing fuels and hazardous substances, locking mobile plant and safe storage of keys and safe storage of plant and equipment.

### 7.0 Common Plant and Equipment

Fraser Coast Regional Council will provide the following plant and equipment: -

Signage - erect appropriate roadworks and safety signage at the worksite.

### 8.0 Housekeeping

Housekeeping is to be maintained at a high standard.

### 9.0 Facilities

Facilities are to be provided on the work site and they shall meet the requirements of the Code of Practice – Managing Risks in Construction Work

### 10.0 Safe and Healthy Work Environment

A safe and healthy work environment shall be maintained at all times. This can be achieved through items like, supplying the required amenities, lighting ,the provision of protection of workers in adverse weather conditions, protection against solar ultraviolet radiation, provision of safe access and egress for both plant an people, having an emergency plan and ensuring everyone is aware of what to do in an emergency, carrying out risk assessments, keeping the workplace clean. Further information on these issues can be found in the Code of Practice – Managing Risks in Construction Work.

11.0 Management of Falls and Falling Objects and High Risk Construction Work
The risk of a person or object falling on a construction site shall be controlled. Methods of control can be found in the Code of Practice – Managing Risks in Construction Work.

### 12.0 Provision and Maintenance of a Hazardous Substance (chemicals) Register, Safety Data Sheets and Hazardous Substance Storage

A hazardous substance (chemicals) register and current safety data sheets are to be provided and maintained,

Hazardous substance storage is to be in accordance with the requirements of both the Code of Practice – Managing Risks in Construction Work and the Code of Practice – Managing Risks of Hazardous chemicals.

### 13.0 Safe Use and Storage of Plant

Plant and plant storage is to be in accordance with the requirements of both the Code of Practice – Managing Risks in Construction Work and the Code of Practice – Managing the Risks of Plant at the Workplace.

are to be carried out in a

### 14.0 Traffic Management Plans

Traffic management plans for both on site and off site are to be available. These plans are to be completed in accordance with Queensland Transport's, *Manual of Uniform Traffic Control Devices Part 3 – Works on Roads*.

### 15.0 Essential Service Information

DBYD locations are to be made as well as Locations of services on site and locations marked on the ground. Pot holing is to be undertaken to ascertain the locations of underground services should there be a need to dig near an underground service.

### 16.0 Competencies, Licences and Training to Undertake Work

Plant, and equipment will not be operated on site by anyone who does not hold the relevant competency, licence and training for the particular piece of equipment.

Proof of competency or certificate to operate is to be available and produced when requested.

### 17.0 Site Rules

All workers and where applicable contractors and sub-contractors must ensure they follow the following site rules:

- A risk management approach shall be used to prevent injuries, near misses, property damage and other business losses.
- Ensure work is conducted in accordance with the Construction Work Health and Safety Management Plan and where applicable, the Safe Work Method Statements.
- All incidents, injuries and emergency situations must be reported to the site supervisor as well as your supervisor;
- · Ensure all roadworks are signed in accordance with Queensland Transport's, Manual of Uniform Traffic Control Devices Part 3 – Works on Roads.
- Workers must wear the correct personal protective equipment and use the appropriate safety equipment - as per Construction Work Health and Safety Management Plan, Safe Work Method Statements, material safety data sheets or manufacturer's recommendations.
- Work areas must be kept tidy and access ways must be kept free of hazards;
- No alcohol or illegal drugs permitted on site:
- Any person found affected by alcohol or drugs will be asked to leave the site;
- Before using or storing any hazardous or dangerous goods, a copy of the substance's material safety data sheet is to be given to the site supervisor;
- All personnel using plant and equipment are to hold the appropriate licence/ certification and be adequately trained in its use.
- Safety guards are not to removed from equipment unless it is for an approved procedure (eg. maintenance);
- All portable electrical equipment is to have a current electrical safety tag attached to the cord (the testing interval for construction equipment is not to exceed 3 months).
- Electrical cords and equipment shall be protected from damage and immersion in water.
- Piggyback leads and double adaptors are not to be used on site.
- Fall control measures shall be used where a person could fall greater than 2.0 metres.
- Only properly trained people with the appropriate equipment shall enter confined spaces.
- Safety signage must be complied with.
- Trenches and excavations deeper than 1.5 metres shall be shored, battered or benched to prevent collapse.
- Trenches and excavations shall be adequately managed (eg. regular inspections, adequate shoring) to minimise the chance of collapse;
- Underground and overhead hazards (eg. electrical cables) shall be identified prior to work commencing on the site; and
- Use loadshifting equipment in preference to manual handling where practicable.

### 18.0 Emergency Preparedness

Emergency contact details, the evacuation process and a list of trained first aid persons or locations where first aid may be obtained are contained on the Emergency and Evacuation Information Sheet (Appendix 3). This information sheet should be displayed at the worksite where practicable.

### Reporting Injuries and Incidents

Where a work injury, illness, incident or near miss occurs:-

- Injured worker is to obtain first aid:
- Worker and worker's supervisor to complete WH&S form 1, titled "Injury/Incident/ Near Miss and Hazard Form".
- Incident to be investigated by worker's supervisor and/or Work Health and Safety Advisor. Investigation results to be returned to the Council Work Health and Safety Advisor (WHSA).

Where a notifiable incident, serious injury or illness or dangerous incident has occurred at the worksite:-

- Council's Work Health and Safety Advisor, Chief Executive Officer, Director, Department Executive Manager and WHSA shall be notified immediately;
- The Council Work Health and Safety Advisor shall notify the Worksafe Queensland immediately. (The WHSA is the only authorised person in Council who is approved to notify Worksafe Queensland of any notifiable incident, serious injury or illness or dangerous incident.
- The form No. 3 shall be completed and forwarded to Worksafe Queensland immediately.
- The person with management or control of the workplace at which a notifiable incident has occurred must ensure that the site where the incident occurred is not disturbed until an inspector arrives at the site or any earlier time that the inspector directs. (Action to assist an injured person, remove a deceased person, or that is essential to make the site safe or to minimise the risk of a further notifiable incident or that is associated with a police investigation or for which an inspector or the regulator has given permission are acceptable).

Note: reference to a site includes any plant, substance, structure or thing associated with the notifiable incident.

### 20.0 Appendices

Fraser Coast Regional Council will use the following forms to manage and record the work health and safety performance during this project.

These appendices include:

- Appendix 1 Contractor/ Subcontractor Register;
- Appendix 2 Site Inspection Checklist;
- Appendix 3 Emergency and Evacuation Information;
- Appendix 4 Hazardous Substance Register;
- Appendix 5 Employees with First Aid Training.
- Appendix 6 Risk Assessment Calculator
- Appendix 7 Workplace Specific Safety Induction form.

Appendix 1

### Contractor/ Sub-Contractor Register

Project Name:						
Scheduled Start:	1	1	Scheduled Completion:	1	1	000

Contractor/	ontractor Induction	ction			
Sub-contractor	Evidence? Yes / No	Required? Yes / No	Received? (If required)	Approved? (If required)	
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Appendix 2

### **Site Inspection Checklist**

ŀ	roject :						
F	Person Ins	pectin	g Site:				Date:
	RATING	Ø	Acceptable	NA	Not Applicable	R	Rectified during inspection
	COLUMN	×	Rectification wi	th 24 h	rs required	S	Instruction issued to personnel

ITE	М	RATING	ITEM		RATING
1.	Previous inspection items appropriately actioned?		16.	Soil density and moisture gauge – hazards controlled?	
2.	All contractor details contained in Contractor Register?		17.	Appropriate PPE being worn?	
3.	All relevant contractor Safe Work Method Statements reviewed and approved.		18.	Safe portable power equipment and tool use?	
4.	All on-site personnel have had general safety inductions?		19.	Adequate guarding of tools and equipment?	
5.	Emergency and evacuation information displayed?		20.	Hot bitumen use – hazards controlled?	
6.	Adequate safety signage displayed? Adequate road works signage and traffic control?	pil	21.	Hazards from laser use controlled?	
7.	Amenities are available for all workers. (see Construction code)	S.	22.	Confined spaces – correct procedures followed?	
8.	Exposure to excessive sunlight – hazards controlled?		23.	Working at height – fall hazards controlled?	
9.	Exposure to excessive heat – hazards controlled?		24.	Electrical cords protected and tagged? (3 Monthly tests)	
10.	Adequate clearance maintained between plant and overhead electrical cables?		25.	Residual current devices used and tested before use?	
11.	Location of all underground and above ground services communicated to site personnel?		26.	Trenching and excavation – procedures followed and hazards controlled?	
12.	Safe use and storage of hazardous chemicals?		27.	Adequate barricading of excavations and trenches?	
13.	Hazardous chemical register correct?		28.	Manual handling minimised where possible.	
14.	SDS available for hazardous chemicals?		29.	Trip and slip hazards controlled?	
15.	Earth moving plant hazards controlled?		30.	Safe Work Method Statements being followed?	

31. Housekeeping practices are to be checked to ensure the likelihood of slip, trip and falls or musculoskeleta injuries do not occur. Were workers provided with instructions on how to comply with the housekeeping requirements?

Appendix 3

### Fraser Coast Regional Council

### **Emergency and Evacuation Information**

Fraser Coast Regional Council CONTACT	rs
Council Work Health and Safety Advisors	Name: Jackie Curtis: Phone: 0409 587 684 Peter Cherritt: Phone: 0448 041 997
	Name: Phone:
Health and Safety Representative (Where elected)	Name:
FIRST AID	COST CONTRACTOR OF THE PARTY OF
Refer to Appendix 5 for the names of emplo	yees with first aid training.
EMERGENCY RESPONSE	, xO
Emergency – Police, Fire or Ambulance	Phone: 000  If a phone is unavailable use the two way radio to relay emergency information.
All injuries and incidents must be reported to Health and Safety Advisor.	the site supervisor, and the Council Work
Depending on the severity of the incident, the contacted by Council's Work Health and Sat	ne following authorities may need to be fety Advisor.
OTHER AUTHORITIES	
Worksafe Qld	Phone: 1300369915

### **Evacuation Process**

- 1. Upon discovery of a fire, bomb or other threatening situation, the area shall be evacuated.
- Immediately notify the relevant emergency service.
- Encourage employees and visitors to remain calm and orderly while they proceed to the designated evacuation assembly point.
- 4. If safe to do so, try to extinguish the fire with the appropriate fire equipment. Remember do not use water fire equipment on electrical or flammable liquid fires.
- Shut down any plant or equipment.
- Never re-enter a burning building or vehicle.
- Remain upwind of any noxious smoke or fumes given off by the fire.
- 8. Keep the public clear of the threatening situation through the use of traffic control, etc.
- Do not leave the evacuation assembly point until you have been accounted for.

Appendix 3

### **Emergency and Evacuation Information**

### **Trench Rescue Procedure**

- 1. Immediately contact the ambulance and Queensland Fire and Rescue Service.
- 2. Send for earth moving equipment you consider necessary to release the trapped worker.
- 3. Try and locate the victim looking for signs such as tools or a shovel.
- 4. Clear all unwanted workers away from the area.
- 5. If possible, batter the sides of the excavation in the collapsed area or insert shoring where possible to protect the victim and rescuers.
- 6. Remove the collapsed soil with shovels or, if it is a very deep excavation, with a machine. <u>If a machine is used, take extreme care to avoid further injury to the victim.</u>
- 7. <u>Do not stand on top of the collapsed soil directly over the victim</u>, as this will increase pressure on the buried worker.
- 8. Rescuers should wear lifelines, which extend to the surface.
- 9. When rescuers are near the victim, hands should be used to remove the soil if possible. If shovels have to be used, these are to be used with caution.
- 10. When the victim is located, clear soil from head and chest, and check for breathing and a pulse.
- 11. If breathing has stopped, start Expired Air Resuscitation (EAR). Where breathing has stopped and pulse is absent, start Cardio-Pulmonary Resuscitation (CPR).
- 12. Check for injuries and apply first aid where necessary.
- 13. Unless there is danger to the victim and the rescuers, avoid unnecessary movement of the injured person. Where the injured person must be moved due to safety concerns (eg. a danger from flooding, risk of further excavation collapse), rescuers should support the victim's head and spine.
- 14. Provide assistance to emergency personnel when they arrive.

### Worker Trapped in a Harness Following a fall

If the worker cannot be rescued safely by available onsite workers and/ or if the worker has been injured: -

- 1. Immediately contact Queensland Fire and Rescue Service and Ambulance by telephone (000) or by 2-way radio, relaying the message through the office.
- 2. Due to the danger of suspension trauma from the fall the worker trapped in the harness should be encouraged to maintain leg activity to prevent blood pooling in the legs.

### Plant or Machinery Worker Coming into Contact with Electrical Cables

- 1. Immediately contact Ergon Energy and advise them of the situation.
- 2. Contact relevant emergency services (ie. Police, Fire or Ambulance).
- 3. The operator is to remain in the cabin or on the equipment until the power is isolated or the plant/ machine is driven free of the cables.
- 4. All people are to remain at a safe distance from the plant/ machine, its load and any damaged or fallen electrical cables until the electricity has been disconnected.
- 5. Rescue attempts to free the trapped or injured operator **shall not be made** until Ergon Energy isolates the power or the machine/ plant is clear of the electrical cables. The area is to be cordoned off to prevent further injury.
- 6. Electrical contact is required to be investigated and reported to the Regulator/Worksafe Queensland.

Appendix 3

### **Emergency and Evacuation Information - continued**

### Damage to the Soil Moisture and Density Gauge

- Cordon off the area around the damaged gauge minimum distance from gauge 1. should be six (6) metres.
- 2. Contact the Main Road's Radiation Safety Officer and notify them of the details.
- 3. The Radiation Safety Officer is to conduct a radiation survey around the gauge and compare the results with previous monitoring results.
- If the radiation measurements are not significantly different and the radioactive 4. substance is in the shielded position, the gauge is to be returned to the radioactive
- 5. If the measurements differ significantly from the established values, or the radioactive substance cannot be returned to the shielded position, the Radiation Safety Officer should determine the course of action to be taken to render the situation safe (eg. placing additional shielding over the gauge). Pending advice from the radiation safety officer, access control must be maintained.
- The Radiation Safety Officer is to immediately notify the possession licensee and the 6. Chief Executive of Queensland Health of the incident.
- The gauge involved in an incident is not be used again until the Radiation Safety 7. Officer confirms the safety of the gauge by obtaining a certificate of compliance for the gauge from an appropriately accredited person.
- The possession licensee and the Chief Executive of Queensland Health are to be 8. immediately advised by the Radiation Safety Officer if a radioactive substance is , CRC, Released Indi unaccounted for.

Project Name:

### Fraser Coast Regional Council

Appendix 4

### Hazardous Chemical (Substance)/Dangerous Goods Register

Product Name	Approx. Quantity	DG Class	Location/ Use?	SDS Provided?Employees trained in SDS/Chemical use? Yes/No
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				0
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NOTE: It is mandatory that Safety Data Sheets be provided on the job site



Appendix 5

### ON SITE EMPLOYEES/CONTRACTORS WITH FIRST AID TRAINING

	Name
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2	a de la companya della companya dell
3	KOT
Loca	OR tion where first aid will be provided
1	
2	
	Inde
	3
EMER	RGENCY TELEPHONE NUMBERS
Police/Fire/ Ambulance Hospital  Poisons Information Ce Worksafe Qld Radiation Health	000 Hervey Bay 41206666 Maryborough 41228222 ntre 131 126 1300369915 (07) 3406 8000
Council Work Health an	d Safety Advisor Steve Teague: Phone: 0419722820

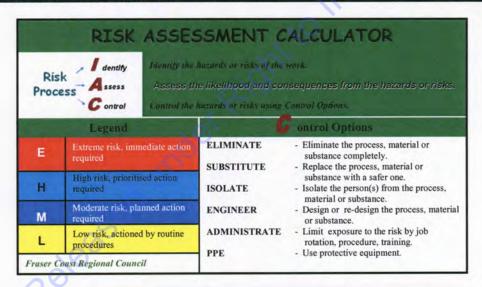
Note: Consultation must take place on who is to provide first aid. Either Council, a contractor or other provider can provide first aid through consultation on a construction project.

### **Risk Assessment Calculator**

### High Eliminate Eliminate the process, material or substance completely. Substitute Replace the process, material or substance with a safer one. Isolate Isolate the person(s) from the process, material or substance. Engineer Design or re-design the process, material or substance. Administrate Limit exposure to the risk by staff rotation. PPE Use personal protective equipment.

**Note:** When deciding on control measures using the 'Hierarchy of Control', always evaluate your control options from a *high* to a *low* measure. PPE should always be your last resort when trying to control a risk or hazard in the workplace.

### RISK ASSESSMENT CALCULATOR



	Consequence	ces			
Likelihood	Insignificant No Injury, 0 - low \$ loss	Minor First Aid Injury, low- medium \$ loss	Moderate Medical Treatment medium -high \$ loss	Major Serious Injuries, major \$ loss	Catastrophic Death, huge \$ loss
Almost Certain is expected to occur at most times	H - 40	H - 48	E - 72	E - 84	E - 100
Likely will probably occur at most times	M - 24	H - 44	H - 56	E - 80	E - 96
Possible might occur at some time	L - 12	M - 28	H - 52	E - 76	E - 92
Unlikely could occur at some time	L-8	L - 20	M - 36	H - 64	E - 88
Rare may occur in rare circumstances	L-4	L - 16	M - 32	H - 60	H - 68

Appendix 7

### Fraser Coast Regional Council

### Workplace Specific Safety Induction Form

Worker/ Contractor/ Sub Contractor/Visitor Workplace Specific Induction

### **Project Name:**

Note: if a person is to go on to the construction work site they must either have a Site Specific Safety Induction or be accompanied (at all times) by a person on behalf of the principal who has had a safety induction specific to the site.

No	Worker/ Contractor/ Sub Contractor/Visitor Name	Date Inducted	Name of Trainer/Person doing the induction	Signature of Worker/ Contractor/ Sub Contractor/Visitor
1			10	
2			10	
3		600		
4		16/		
5	. 3			
6	Seq			
7	200			
8	2			
9	20			
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11				
12				
13				
14				

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### **Project Name:**

Note: if a person is to go on to the construction work site they must either have a Site Specific Safety Induction or be accompanied (at all times) by a person on behalf of the principal who has had a safety induction specific to the site.

No	Worker/ Contractor/ Sub Contractor/Visitor Name	Date Inducted	Name of Trainer/Person doing the induction	Signature of Worker/ Contractor/ Sub Contractor/Visitor
15				PC
16			×	Oll
17			illo	
18			Nigo	
19			XQ .	:
20		oid)		
21		Sel		
22				
23	2580			
24	08/80			
25				
26	3			
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28				
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Revision 1. 24/07/2017

FCRC. Released under Right to Information Act. 2009



### FLANK CONSTRUCTION

SHELLCOT STREET, TOOGOOM
FOR FRASER COAST REGIONAL COUNCIL

### **DRAWING INDEX**

LOCALITY PLAN & DRAWING INDEX 2923-D01-002 TYPICAL SECTIONS, DETAILS & NOTES 2923-D01-010 EXISTING SITE FEATURES - SHEET 1 OF 3 2923-D01-011 EXISTING SITE FEATURES - SHEET 2 OF 3 2923-D01-012 EXISTING SITE FEATURES - SHEET 3 OF 3 2923-D01-020 DESIGN DETAIL - SHEET 1 OF 3 2923-D01-021 DESIGN DETAIL - SHEET 2 OF 3 2923-D01-022 DESIGN DETAIL - SHEET 3 OF 3 2923-D01-030 SHELLCOT STREET LONG SECTION - SHEET 1 OF 3 SHELLCOT STREET LONG SECTION - SHEET 2 OF 3 2923-D01-031 2923-D01-032 SHELLCOT STREET LONG SECTION - SHEET 3 OF 3 2923-D01-040 LINEMARKING AND SIGNAGE PLAN - SHEET 1 OF 3 2923-D01-041 LINEMARKING AND SIGNAGE PLAN - SHEET 2 OF 3 2923-D01-042 LINEMARKING AND SIGNAGE PLAN - SHEET 3 OF 3

### STANDARD DRAWINGS - F.C.R.C.

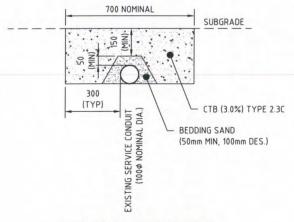
FC-220-01 KERB AND CHANNEL PROFILES AND DIMENSIONS FC-230-01 RESIDENTIAL DRIVEWAY CROSSING SLAB AND TRACKS

THE ORIGINAL PLANS OF THIS PLAN SET WERE PRODUCED USING COLOUR FOR GREATER CLARITY AND OBJECT DEFINITION. WORKING WITH A BLACK AND WHITE COPY MAY CAUSE ERRORS. IF THESE DRAWINGS ARE NOT IN COLOUR THEN YOU **DO NOT** HAVE THE CORRECT PRESENTATION AND SHOULD SEEK ADVICE.



### LOCALITY PLAN

G F E		CALES	ENGINEERING SOLUTIO PO Box 1050, HERVEY BAY T: 07		SURVEY SURVEYORS@WORK HORIZ GDA94 (MGA ZONE 56)	CHECKED DATE POH 10/16		FRASER COAST REGIONAL COUNCIL	CONSTRUCTION
D C SURFACING AMENDMENTS	KJD 17/10	NTS	CLIENTS - SERVICE - SOL  RPEQ: 7616 APPROVED:	LUTIONS	HEIGHT DATUM AHD	RELEASED FOR DATE CONSTRUCTION		FLANK CONSTRUCTION	SHEET 01 OF 14 DRGS  DRAWING No:
B ISSUED FOR CONSTRUCTION  A ORIGINAL ISSUE	KJD 30/09		Klad	lang ESG	ORIGIN PSM 118724 RL 3.852		Fraser Coast	SHELLCOT STREET, TOOGOOM	A3   2923-D01-001
REV DETAILS OF AMENDMENTS  CAD FILES C:\12d Synergy Workspace\1\FC	APPROVED DATE 0-16-017 FCRC FIG	nk Construction, K & C Overlay_47\	DATE: 17/10/16  DWG's\Internal\Rev C\FC-16-017-01-	99.dwg	E - 469265.422 N - 7206475.217	CW8 03/17	Ph: 1300 794 929 www.frasercoast.qld.gov.au	LOCALITY PLAN & DRAWING INDEX	PROJECT ID: YEAR: 16/17



TYPICAL SERVICE PROTECTION DETAIL DIMENSIONS ARE IN MILLIMETRES

NTS WORK ITEM 213(h)

PROTECTION OF EXISTING SERVICES TO BE CONFIRMED ON SITE BY SUPERINTENDENT AND RELEVANT SERVICE AUTHORITY.

### PAVEMENT & SURFACING TABLE

CHAINAGE	PAVEMENT	SURFACING
CH 12.558 - CH 123.891 CH 160.0 - CH 201.877 CH 255.887 - CH 322.271 CH 349.460 - CH 451.282	125mm BASE TYPE 2.1C - WORK ITEM 242(b) 100mm SUBBASE TYPE 2.3C - WORK ITEM 242(a)	PRIMER SEAL: C170 AMC4 @ 1.2L/m² 14mm AGGREGATE @ 120m²/m WORK ITEMS 244(a), 244(f)  ASPHALT SURFACING: 30mm DG10 (ASS) WORK ITEM 245(c)

### PAVEMENT NOTES:

EXISTING TYPE B KERB AND CHANNEL

GEOFABRIC TO SUBGRADE (BOTH SIDES) BIDIM A39 OR APPROVED

(BOTH SIDES)

WORK ITEM 213(g)(ii)

TO REMAIN UNLESS NOTED OTHERWISE

- GEOTECHNICAL REPORT PREPARED BY WIDE BAY GEOTECHNICAL SERVICES PTY. LTD. EXISTING PAVEMENT PROFILE SHOWN TO BE A MAXIMUM OF
- MINIMUM PAVEMENT THICKNESS ADOPTED IN
   ACCORDANCE WITH FCPS SHEDULE 6 TABLE SC6.3.4.3.

### NOTES:

- ALL DIMENSIONS ARE IN METRES UNLESS NOTED OTHERWISE.
- 2. NO CONSTRUCTION WORK SHALL BE UNDERTAKEN UNTIL SERVICE LOCATIONS HAVE BEEN CONFIRMED ON SITE WITH THE RELEVANT
- APPROPRIATE COMPACTION EQUIPMENT TO BE ADOPTED WHEN WORKING IN THE VICINITY OF EXISTING SERVICES AND STRUCTURES.
- ESQ TAKES NO RESPONSIBILITY FOR THE DAMAGES OR REPAIR TO EXISTING SERVICES.
- ALL DIMENSIONS TO BE VERIFIED ON-SITE PRIOR TO THE COMMENCEMENT OF WORKS.
- ALL WORKS TO BE UNDERTAKEN IN ACCORDANCE WITH F.C.R.C. SPECIFICATIONS.
- IN ADDITION TO COMPACTION TESTING OF THE SUB-GRADE, SUB-BASE AND BASE, AND IN THE CASE OF COMPACTION OF COARSE GRANULAR MATERIAL, PROOF TEST ROLLING SHALL BE UNDERTAKEN AS SOON AS POSSIBLE AFTER COMPLETION OF COMPACTION, IN THE PRESENCE OF THE SUPERINTENDENT. SUCH TEST ROLLING SHALL BE DONE IN ACCORDANCE WITH AS 3798 -2007. DRIED OUT SURFACES SHALL NOT BE ACCEPTABLE FOR TEST ROLLING. ATTENTION WILL BE GIVEN TO THE RELEVANCE OF TIMING AND MOISTURE CONTENT AS DESCRIBED IN THE ABOVE STANDARD.
- ALL EXISTING TREES TO REMAIN UNLESS NOTED OR AS DIRECTED BY SUPERINTENDENT

G F E				SCALES	ENGINEERING SOLUTIONS QLI PO Box 1050, HERVEY BAY QLD. 46: T: 07 4194155
D	SURFACING AMENDMENTS	KJD	17/10	0 0.5 1 1.5	CLIENTS - SERVICE - SOLUTION
С	MINOR AMENDMENT	KJD	13/10	SCALE 1:50 (m)	RPEQ: 7616 APPROVED:
В	ISSUED FOR CONSTRUCTION	KJD	30/09	33.12.113411	
Α	ORIGINAL ISSUE				1 Alalany
REV	DETAILS OF AMENDMENTS	APPROVED	DATE		DATE: 13/10/16
CAD	FILES C:\12d Synergy Workspace\1\F	C-16-017	FCRC F	ank Construction, K & C Overlay_47	DWG's\Internal\Rev C\FC-16-017-01-99.dwg

SURVEY SURVEYORS@WORK PSM 118724 RL 3.852 E - 469265.422 N - 7206475.217

RH 10/16 RELEASED FOR CONSTRUCTION CW8 03/17

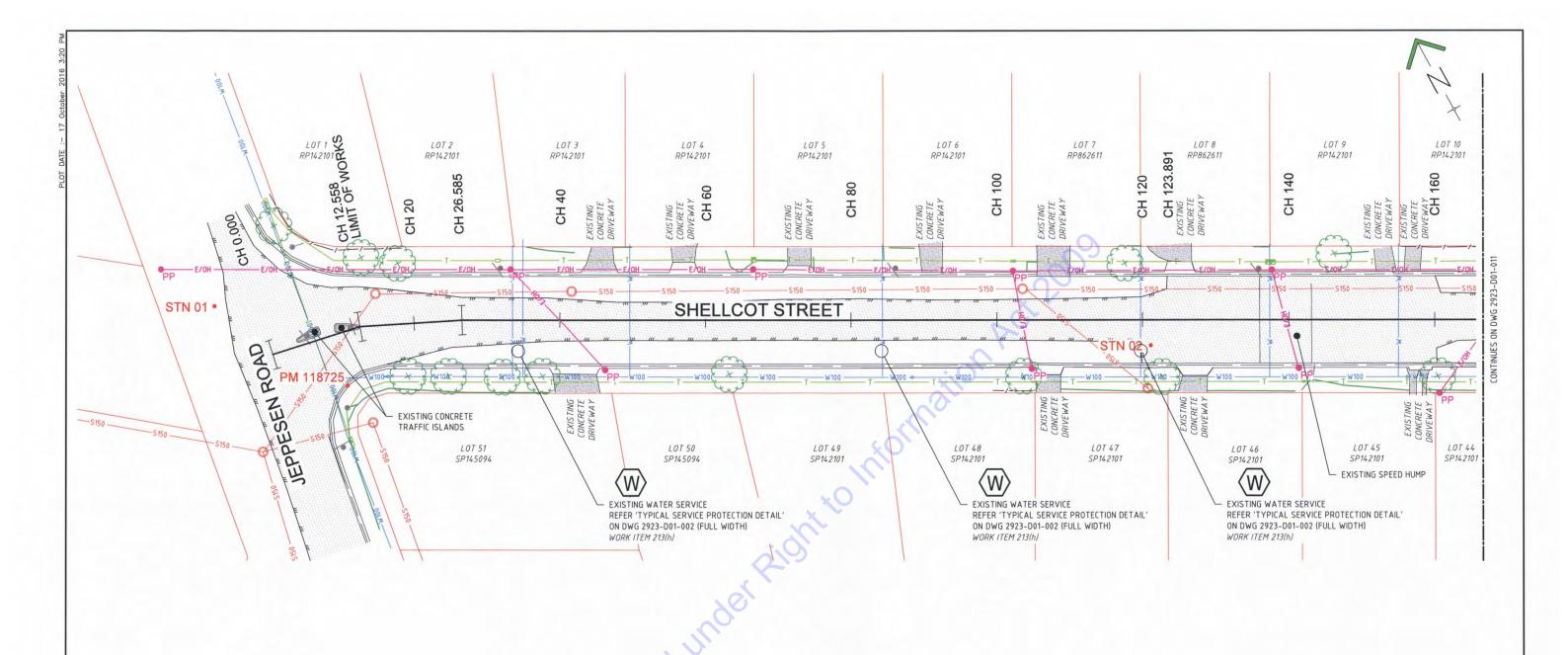


FRASER COAST REGIONAL COUNCIL

FLANK CONSTRUCTION SHELLCOT STREET, TOOGOOM TYPICAL SECTIONS, DETAILS & NOTES

CONSTRUCTION 02 OF 14 DRGS A3 2923-D01-002 PROJECT ID: YEAR: 16/17

X 8 8 D



### SHELLCOT ST CONTROL LINE

### PT CHAINAGE EASTING NORTHING BEARING 468839.08 7206693.905 100°48'38.91" 12.558 468851.415 7206691.55 CH 20 468858.173 7206688.433 114°45'43.31" IP3 26.585 468864.152 7206685.675 CH 40 468875.943 7206679.275 118°29'31.46" CH 60 468893.52 7206669.735 118°29'31.46" CH 80 468911.098 7206660.194 118°29'31.46" CH 100 468928.676 7206650.653 118°29'31.46" CH 120 468946.253 7206641.112 118°29'31.46" CH 140 468963.831 118°29'31.46"

DEPTH OF EXISTING WATER SERVICE CONNECTIONS TO BE CONFIRMED BY CONTRACTOR. IF LOWER THAN 500mm USE 'TYPICAL SERVICE PROTECTION DETAIL' ON DWG 2923-D01-002 OR RELOCATE AS DIRECTED BY SUPERINTENDENT (BY WBWC).

NOTWITHSTANDING THAT EXISTING SERVICES MAY OR MAY NOT BE SHOWN ON THESE DRAWINGS. NO RESPONSIBILITY IS TAKEN BY ESQ FOR THIS INFORMATION, WHICH HAS BEEN SUPPLIED BY OTHERS, EXISTING SERVICES ARE PROVIDED FOR INFORMATION ONLY. NO CONSTRUCTION WORK SHALL BE UNDERTAKEN UNTIL SERVICE LOCATIONS HAVE BEEN CONFIRMED ON SITE WITH THE RELEVANT AUTHORITY.

### LEGEND

EXISTING EDGE OF BITUMEN EXISTING OVERHEAD ELECTRICAL EXISTING TELSTRA EXISTING 100¢ WATER MAIN EXISTING 150¢ SEWER MAIN **EXISTING FENCE** EXISTING KERB EXISTING TREES & GARDEN BEDS EXISTING AREA OF ASPHALT EXISTING AREA OF CONCRETE POSSIBLE SERVICE CONFLICT

G				SCALES
F				
E				0 5 10 15
D				
C	SURFACING AMENDMENTS	KJD	17/10	SCALE 1:500 (m)
В	ISSUED FOR CONSTRUCTION	KJD	30/09	
Α	ORIGINAL ISSUE			
REV	DETAILS OF AMENDMENTS	APPROVED	DATE	

SURVEY STATIONS

468835.126

468945.580

468846.036

NORTHING LEVEL

3.681

3.837

3.592

7206703.497

7206637.472

7206685.255

NUMBER EASTING

02

118725

ENGINEERING SOLUTIONS QLD. PO Box 1050, HERVEY BAY QLD. 4655 T: 07 41941550 CLIENTS - SERVICE - SOLUTIONS RPEQ: 7616 APPROVED:

DATE: 17/10/16

CAD FILES C:\12d Synergy Workspace\1\FC-16-017 FCRC Flank Construction, K & C Overlay\_47\DWG's\Internal\Rev C\FC-16-017-01-99.dwg

SURVEYORS@WORK IORIZ GDA94 (MGA ZONE 56) BH 10/16 PSM 118724 RL 3.852 CW8 03/17 E - 469265.422 N - 7206475.217



FRASER COAST REGIONAL COUNCIL FLANK CONSTRUCTION

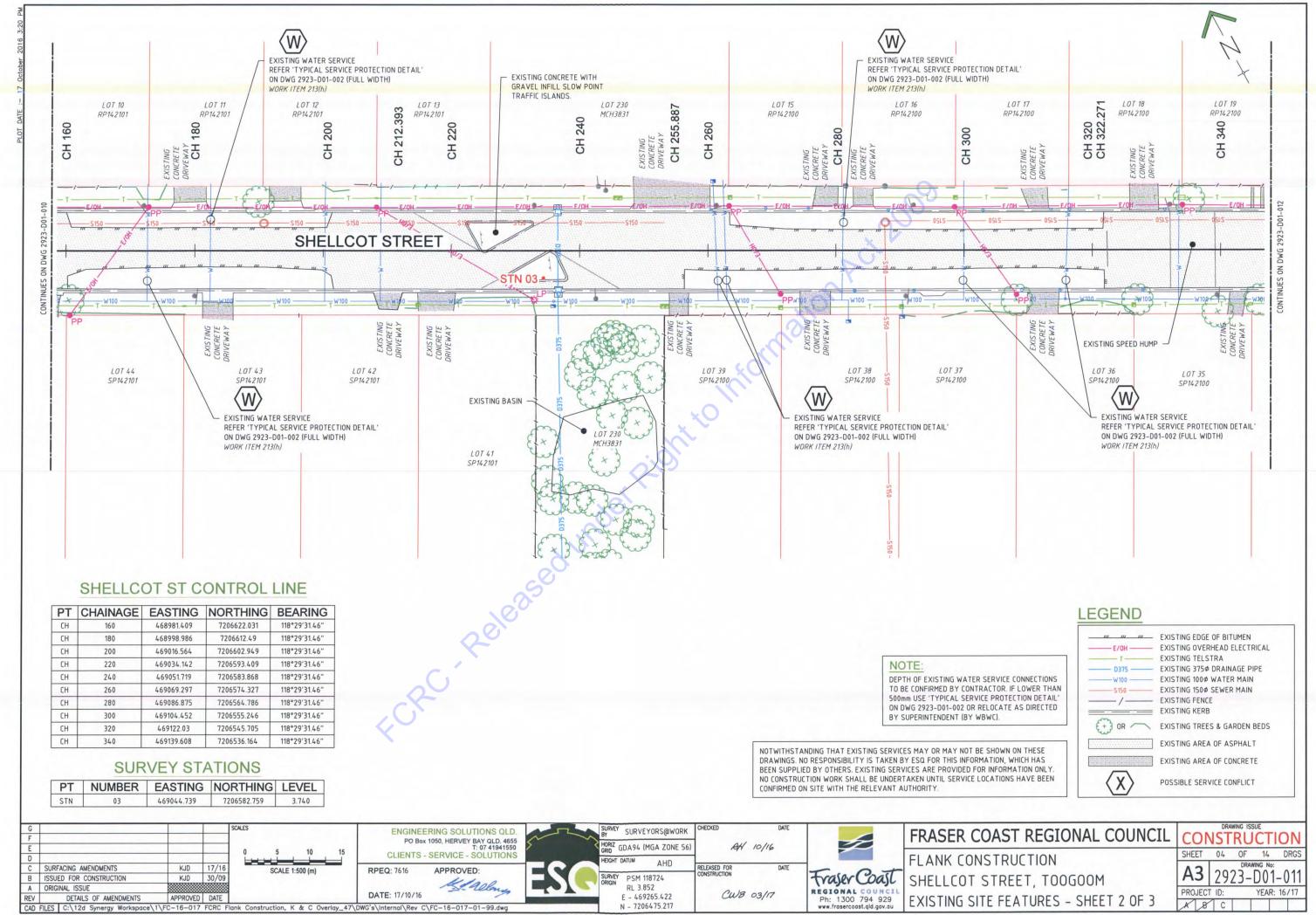
SHELLCOT STREET, TOOGOOM EXISTING SITE FEATURES - SHEET 1 OF 3

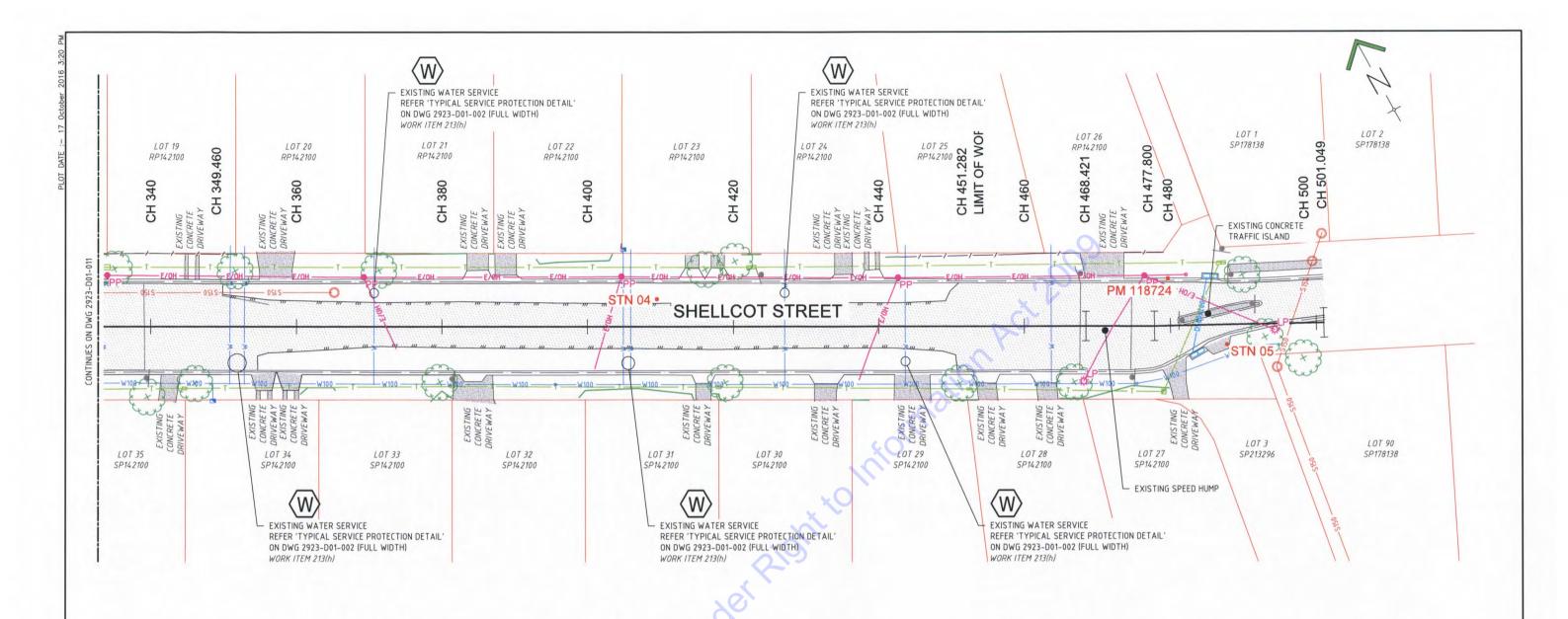
CONSTRUCTION SHEET 03 OF 14 PROJECT ID: YEAR: 16/17

STN

STN

PM





### SHELLCOT ST CONTROL LINE

PT	CHAINAGE	<b>EASTING</b>	NORTHING	BEARING
	340	469139.608	7206536.164	118°29'31.46"
	360	469157.185	7206526.623	118°29'31.46"
	380	469174.763	7206517.083	118°29'31.46"
	400	469192.341	7206507.542	118°29'31.46"
	420	469209.918	7206498.001	118°29'31.46"
	440	469227.496	7206488.46	118°29'31.46"
	460	469245.074	7206478.92	118°29'31.46"
	468.421	469252.474	7206474.903	
IP5	477.8	469260.715	7206470.424	
	480	469262.668	7206469.411	117°25′24.28″
	500	469280.421	7206460.199	117°25′24.28″
IP6	501.049	469281.352	7206459.716	117°25'24.28"

DEPTH OF EXISTING WATER SERVICE CONNECTIONS TO BE CONFIRMED BY CONTRACTOR. IF LOWER THAN 500mm USE 'TYPICAL SERVICE PROTECTION DETAIL' ON DWG 2923-D01-002 OR RELOCATE AS DIRECTED BY SUPERINTENDENT (BY WBWC).

NOTWITHSTANDING THAT EXISTING SERVICES MAY OR MAY NOT BE SHOWN ON THESE DRAWINGS. NO RESPONSIBILITY IS TAKEN BY ESQ FOR THIS INFORMATION, WHICH HAS BEEN SUPPLIED BY OTHERS. EXISTING SERVICES ARE PROVIDED FOR INFORMATION ONLY. NO CONSTRUCTION WORK SHALL BE UNDERTAKEN UNTIL SERVICE LOCATIONS HAVE BEEN CONFIRMED ON SITE WITH THE RELEVANT AUTHORITY.

### **LEGEND**

EXISTING OVERHEAD ELECTRICAL EXISTING TELSTRA EXISTING 500×200 DRAINAGE BOX EXISTING Ø100 WATER MAIN EXISTING Ø150 SEWER MAIN **EXISTING FENCE** EXISTING KERB EXISTING TREES & GARDEN BEDS EXISTING AREA OF ASPHALT EXISTING AREA OF CONCRETE POSSIBLE SERVICE CONFLICT

G				SCALES			
F							
E				0	5	10	15
D				1			
C	SURFACING AMENDMENTS	KJD	17/10	_	SCALE	1:500 (m)	
В	ISSUED FOR CONSTRUCTION	KJD	30/09		00/122		
Α	ORIGINAL ISSUE						

SURVEY STATIONS

469202.551

469268.391

469265.422

NUMBER EASTING NORTHING LEVEL

7206506 233

7206463.391

7206475.217

3 935

3.880

3.852

ENGINEERING SOLUTIONS QLD. PO Box 1050, HERVEY BAY QLD. 4655 T: 07 41941550 CLIENTS - SERVICE - SOLUTIONS APPROVED: RPEQ: 7616

CAD FILES C:\12d Synergy Workspace\1\FC-16-017 FCRC Flank Construction, K & C Overlay\_47\DWG's\Internal\Rev C\FC-16-017-01-99.dwg

SURVEYORS@WORK ORIZ GDA94 (MGA ZONE 56) RH 10/16 AHD PSM 118724 RL 3.852 E - 469265.422 N - 7206475.217 CWB 03/17



FRASER COAST REGIONAL COUNCIL

FLANK CONSTRUCTION SHELLCOT STREET, TOOGOOM EXISTING SITE FEATURES - SHEET 3 OF 3

CONSTRUCTION 05 OF 14 SHEET PROJECT ID:

RTI 2017/18-003

PT

STN

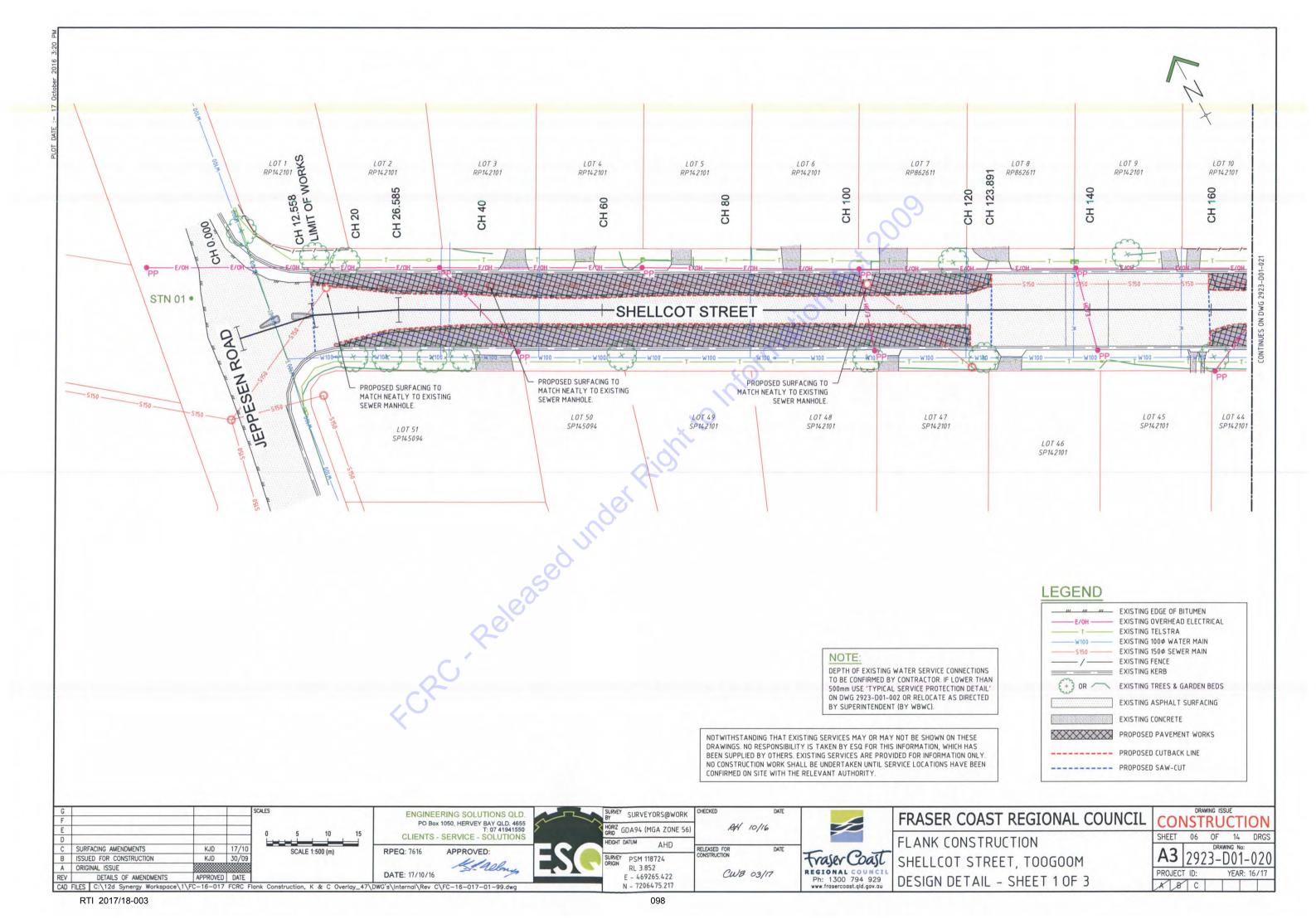
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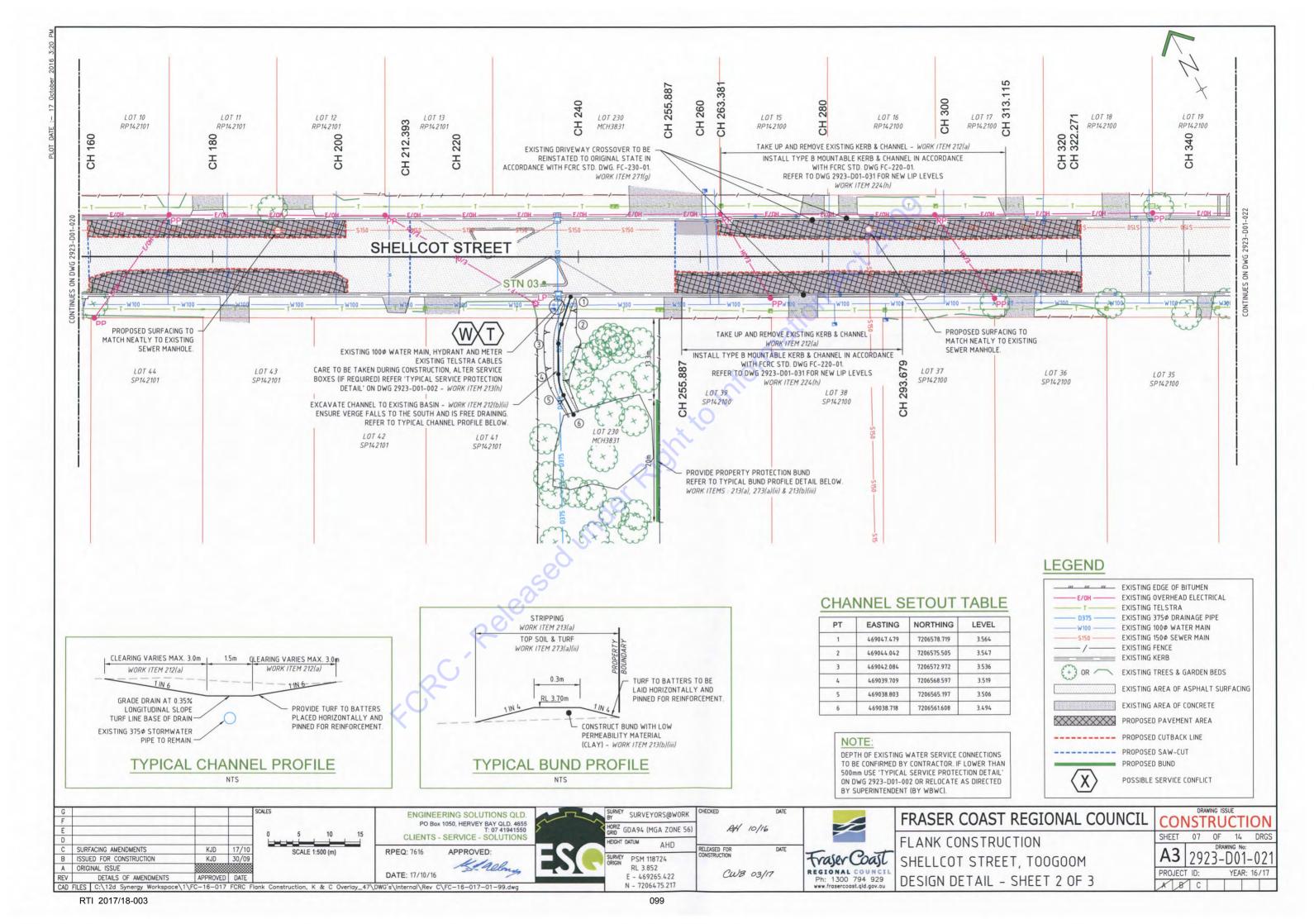
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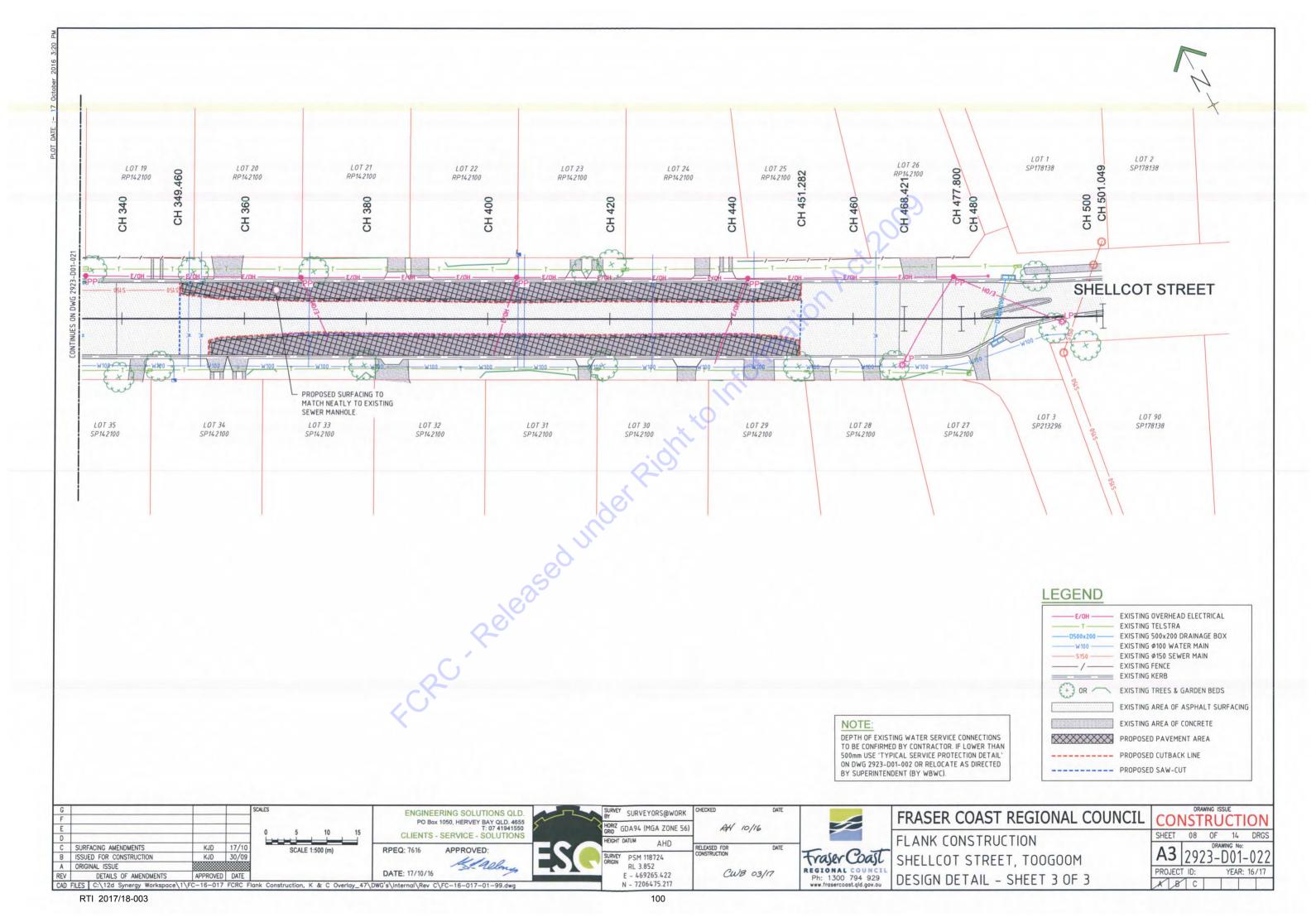
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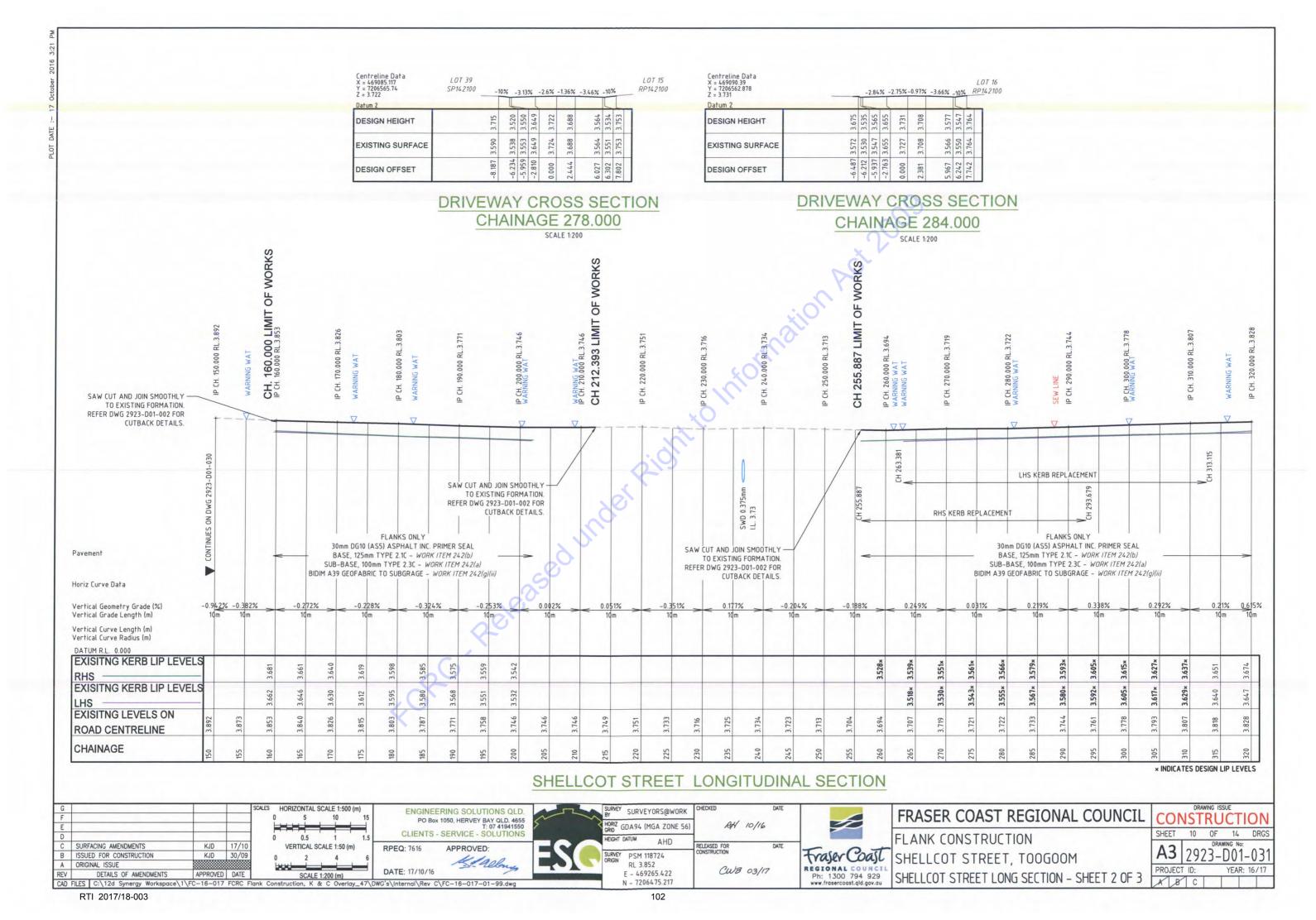
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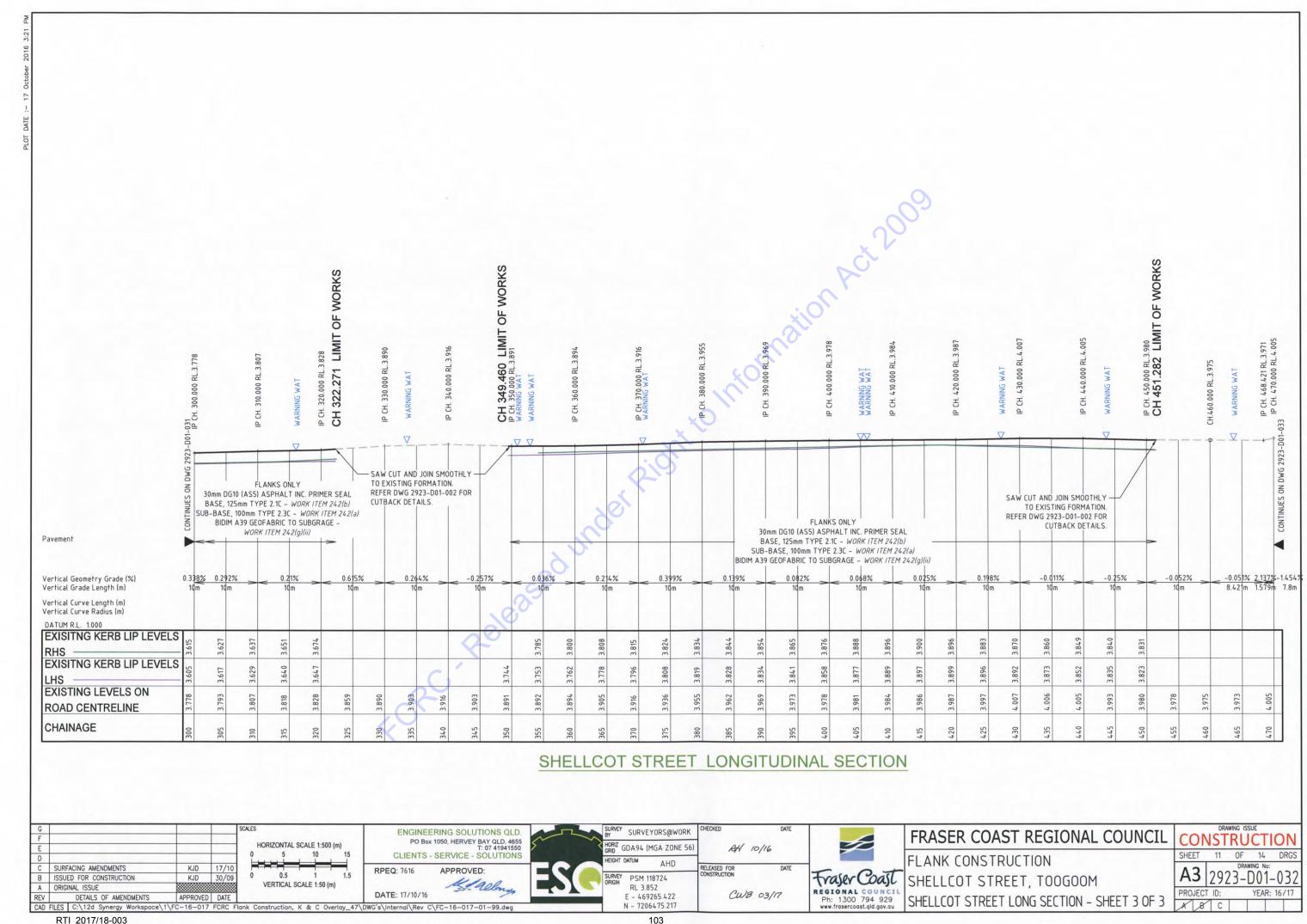
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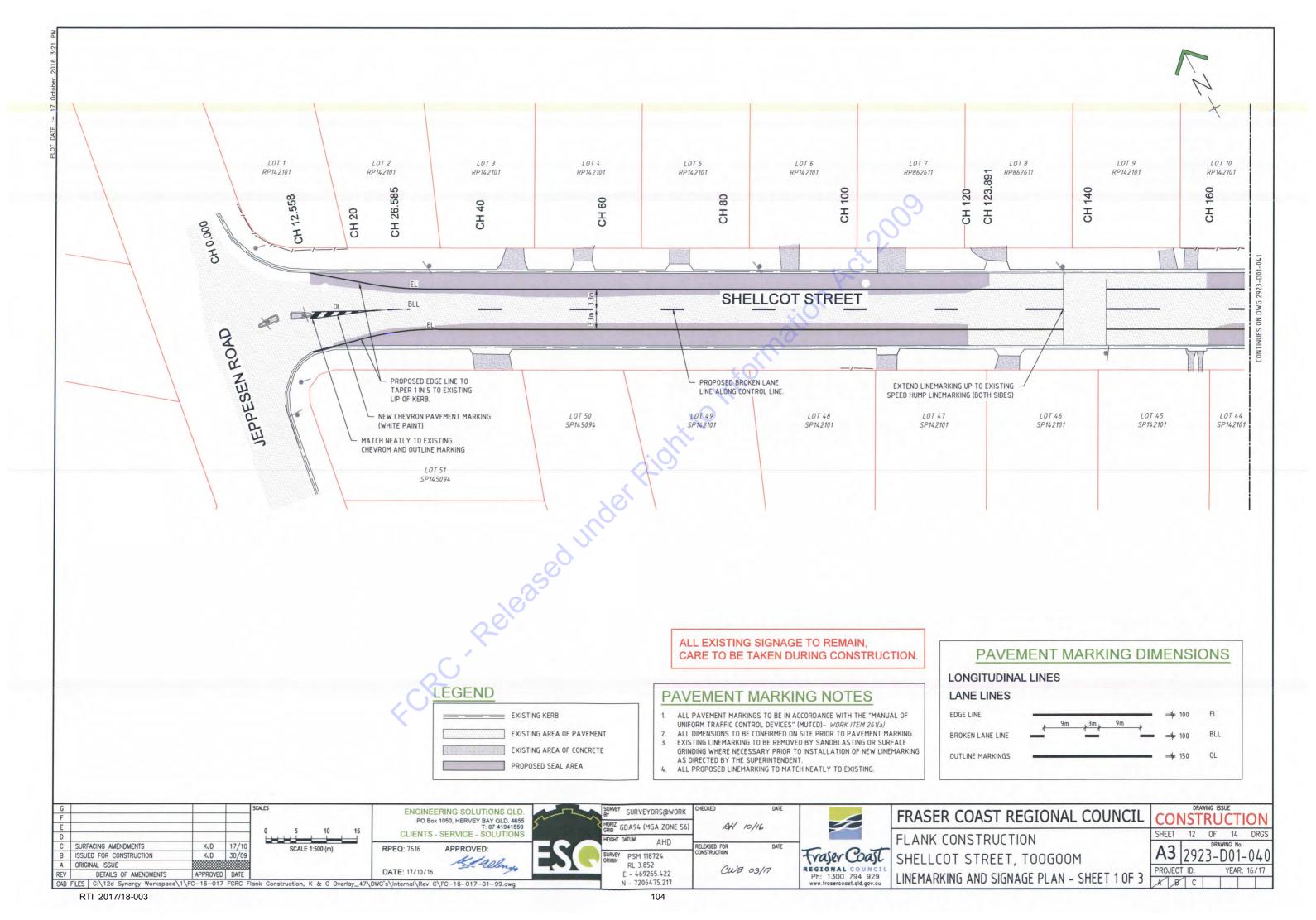


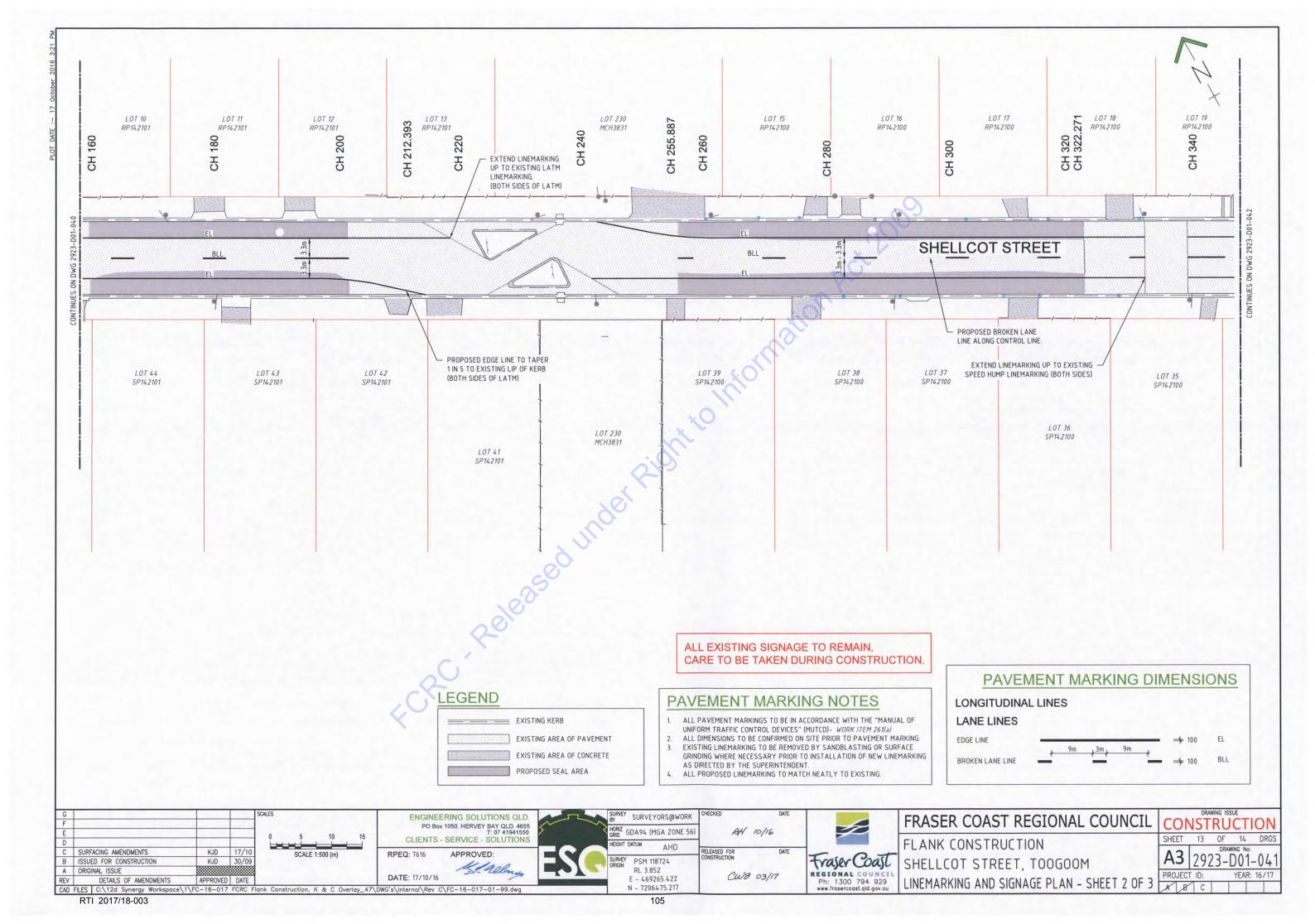


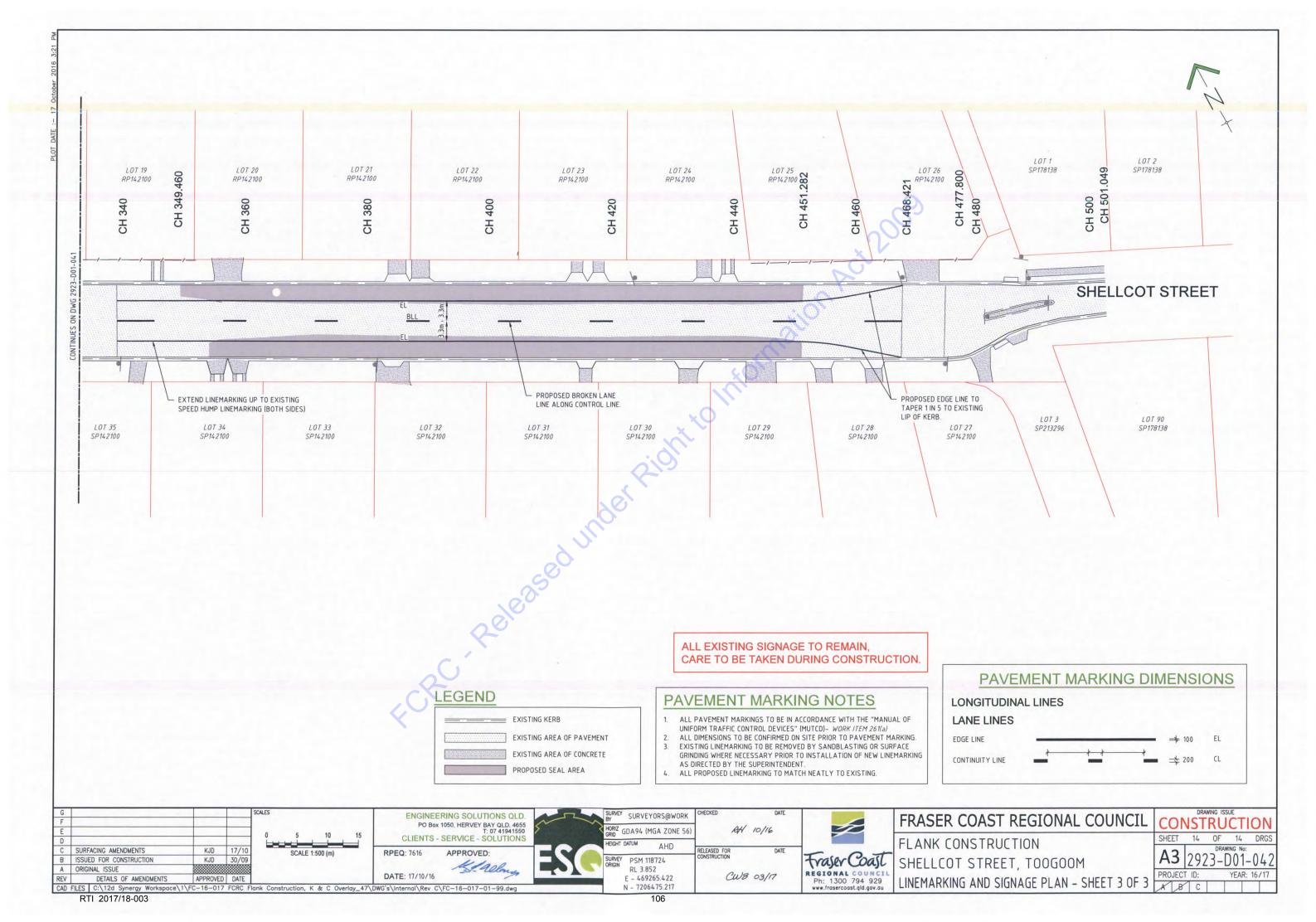


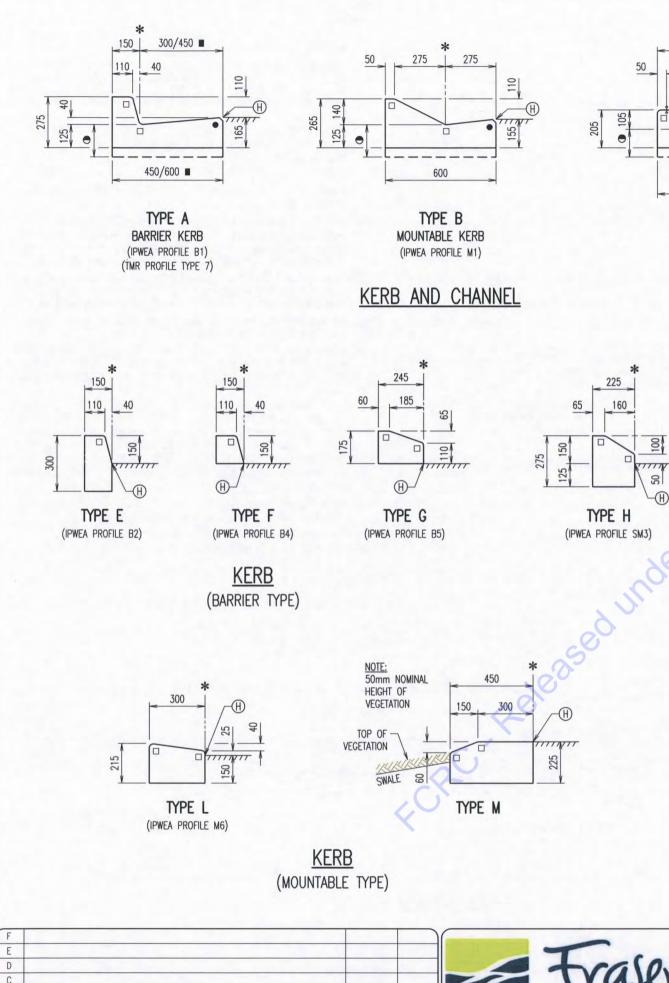










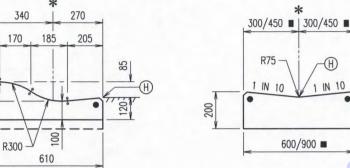


08/16

04/11

DATE

APPROVED



TYPE C MOUNTABLE KERB (IPWEA PROFILE M3)

160

TYPE J

(IPWEA PROFILE SM4)

**KERB** 

1 IN 10

TYPE D (IPWEA PROFILE INVERT) (TMR PROFILE TYPE 22)

INVERT

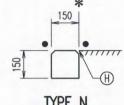
300

R225

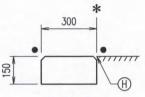
190

TYPE K

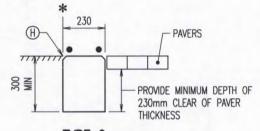
(TMR PROFILE TYPE 9)



TYPE N NO VEHICLE LOADING (IPWEA PROFILE ER1) USED AS RESTRAINT BETWEEN PAVEMENT AND/OR GRASS



TYPE P NO VEHICLE LOADING (IPWEA PROFILE ER4) USED AS RESTRAINT BETWEEN PAVEMENT AND/OR GRASS



TYPE 0 WITH VEHICLE LOADING (IPWEA PROFILE ER2) USED FOR RESTRAINING PAVERS FROM PAVEMENT OR GRASS

### EDGE RESTRAINT

### (SEMI MOUNTABLE TYPE)

### REFERENCE POSITIONS

- NOMINAL KERB LINE
- (H) SETOUT/HEIGHT REFERENCE

### **LEGEND**

- CHANNEL INVERT WIDTH, REFER PROJECT DRAWINGS
- 20 ARRIS
- □ R20 RADIUS
- 175 WHERE SPECIFIED FOR COMMERCIAL AND INDUSTRIAL APPLICATIONS, REFER PROJECT DRAWINGS

DESIGN OFFICE

### NOTES:

- ALL MATERIALS AND CONSTRUCTION SHALL COMPLY WITH AS 2876 EXCEPT WHERE SPECIFIED ON THIS DRAWING.
- 2. MACHINE PLACED (SLIP FORMED OR EXTRUDED) CONCRETE TO BE GRADE N32/10 IN ACCORDANCE WITH AS 1379 AND AS 3600.
- PRECAST OR HAND PLACED (IN SITU) CONCRETE TO BE GRADE N32/20 IN ACCORDANCE WITH AS 1379 AND AS 3600.
- 4. TRANSITIONING BETWEEN KERB TYPES TO BE CARRIED OUT OVER 3m.
- 5. ALL KERB SECTIONS TO BE BEDDED ON TOP OF THE SUB-BASE PAVEMENT LAYER OR A 100mm (MIN) COMPACTED CLASS 2 (MIN) GRAVEL UNLESS DIRECTED OTHERWISE BY COUNCIL.
- PROVIDE CONTRACTION OR SHRINKAGE CONTROL JOINTS AT REGULAR INTERVALS NOT EXCEEDING 3m, BY FORMING GROOVES 40mm DEEP BY 6mm WIDE.
- PROVIDE EXPANSION JOINTS WHERE THE KERB AND CHANNEL ABUTS SUBSTANTIAL EXISTING STRUCTURES SUCH AS BRIDGES, OR WHERE DIRECTED. WHERE RELEVANT, LOCATE JOINTS TO LINE UP WITH THE EXPANSION JOINTS IN ADJACENT STRUCTURES SUCH AS RIGID PAVEMENTS AND CONCRETE SLABS. CONSTRUCT EXPANSION JOINTS BY INSTALLING 10mm THICK BITUMINOUS FIBREBOARD OR APPROVED EQUIVALENT BY COUNCIL FOR THE FULL WIDTH AND DEPTH OF THE KERB AND CHANNEL.

08/16

8. DIMENSIONS ARE IN MILLIMETRES UNLESS SHOWN OTHERWISE.

REGIONAL

KERB AND CHANNEL PROFILES AND DIMENSIONS

CHECKED PROVED BY DIRECTOR INFRASTRUCTURE SERVICES Davendra Naidu \* CWB \* K SIGNED ORIGINAL HELD IN THE DESIGN OFFICE STANDARD DRAWING OF SHEET STANDARD DRAWING No: A3

RTI 2017/18-003

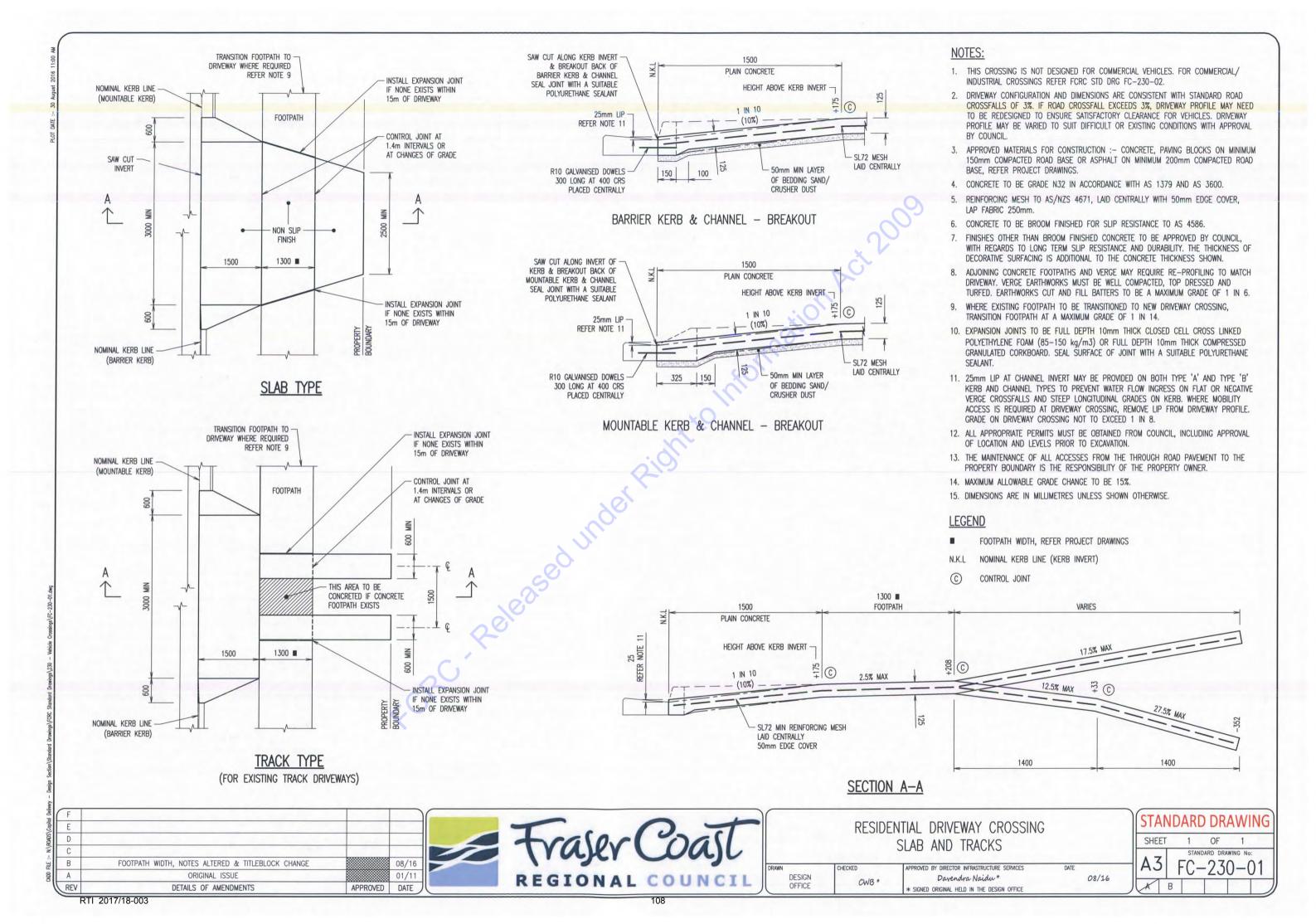
В

REV

SETOUT REFERENCE, EDGE RESTRAINT, NOTES ALTERED & TITLEBLOCK CHANGE

ORIGINAL ISSUE

DETAILS OF AMENDMENTS







#### Aboriginal Cultural Heritage (ACH) and Native Title (NT) - Compliance for a **Community Purpose Reserve**

Date	01/03/16	Completed by	Craig Bottcher
Property	Shellcot Street -	Toogoom	
Description of Works	This project invo	of Shellcot Street between	(pavement widening to the existing kerb & channel) and een Jeppesen Road and Wave Court. The project also y installing new stormwater pipes and reforming the
	The state of the s		the reserve to the drainage channel to the south.

Activities, projects or initiatives by Council may affect either Aboriginal cultural heritage and/or native title. Before commencing any activity Council must ensure it has complied with the law so that the duty of care under the Aboriginal Cultural Heritage Act 2003 (Qld) is met and that every activity is valid under the Native Title Act 1993.

This checklist does not cover a cultural heritage find. All work in the vicinity of a find must stop immediately until the Aboriginal party for the area is consulted.

Doing an activity that is necessary because of a current emergency e.g. a bushfire or other natural disaster may proceed without undertaking any compliance as long as the act will also be carried out elsewhere (e.g. on freehold) if necessary.

Should you be unable to answer any of the questions or require clarification please contact your Supervisor or Michelle Knapp, Community & Development on 4197 4346.

#### PRELIMINARY ASSESSMENT

Ste	р			Go to:
X	1.	A. **C	Is Council a party to either:  a registered Indigenous Land Use Agreement (ILUA); and/or  a cultural heritage agreement which covers the activity area? CURRENTLY COUNCIL HAS NOT ENTERED INTO ANY AGREEMENTS. 30/10/14**	Yes to 2 No to 6
	2.	A. B. C.	Does the agreement cover both cultural heritage and native title compliance for the proposed activity area? If yes - go to Step 3.  Does the agreement cover cultural heritage, but not native title compliance for the proposed activity area? If yes - go to Step 4.  Does the agreement cover native title, both not cultural heritage compliance for the proposed activity area? If yes - go to Step 5.  If the agreement does not cover either cultural heritage or native title compliance for the proposed activity area - go to Step 6.	Yes to both 3 Yes to NT only to 4 Yes to ACH only to 5 No to 6
	3.	A. B.	Read the agreement/ILUA and then carry out the alternative compliance provisions for cultural heritage and native title detailed in the agreement.  Note:- In some ILUAs the native title alternative compliance provisions only apply to some activities. If the ILUA does not address native title compliance for the activity - go to Step 6 for native title.	Comply with Agreement
	4.	A. B.	Read the agreement/ILUA and then carry out the <b>alternative compliance provisions</b> for <b>cultural heritage</b> .  Go to Step 6 for actions necessary to address native title.	Comply with Agreement For NT go to <b>6</b>
	5.	A. B.	Read the agreement/ILUA and then carry out the alternative compliance provisions for native title.  Note:- In some ILUAs the native title alternative compliance provisions only apply to <i>some</i> activities. If the ILUA does not address native title compliance for the activity - go to Step 6.  Go to Step 6 for actions necessary to address Aboriginal cultural heritage.	Comply with Agreement For ACH go to <b>6</b>

You have reached this step because there is no ILUA/ agreement to cover the statutory compliance For ACH go requirements. The checklist is now divided into separate steps for ACH and NT. Follow the steps relevant to the to 7 particular activity/area. For NT go The steps necessary to meet the ACH statutory duty of care commence at Step 7. to 13 The steps necessary to comply with the Native Title Act 1993 commence at Step 13. ABORIGINAL CULTURAL HERITAGE COMPLIANCE - STEPS Go to Step Complete a cultural heritage search by submitting the below form with DATSIMA. Note: allow 6 weeks for a 8 response. https://forms.business.gov.au/smartforms/derm/search-request-submission-form/ Search Ref: 13937 If ACH DOCS # Response Received identified -If the search result states cultural heritage may exist OR Council is otherwise aware that cultural heritage may go to Step exist in the proposed activity area - go straight to Step 12 12 A. Does the activity involve no surface disturbance? "Surface Disturbance" means any disturbance of an area which causes a lasting impact to the land or waters during the activity or after the activity has ceased. Examples:walking Yes driving along existing roads and tracks (within the existing alignment) or other infrastructure footprint Proceed aerial surveys No to 9 navigating through water cadastral, engineering, environmental or geological surveys using methods (such as GPS systems) which do not cause surface disturbance photography If the answer is "yes" the activity can proceed (Category 1 of the Duty of Care Guidelines) Will the activity cause no additional surface disturbance? "No Additional Surface Disturbance" means surface disturbance not inconsistent with previous surface disturbance. Examples:-Cultivation of an area which is currently subject to cultivation Grazing cattle on an area where cattle are currently grazed Yes -Use and maintenance of existing roads, tracks and power lines within the existing infrastructure alignment, or other Proceed infrastructure footprint Use, maintenance and protection of services and utilities (such as electricity infrastructure; water or sewerage No to 10 disposal) on an area where such services and utilities are currently being provided Use, maintenance and protection of services and utilities (such as electricity infrastructure; water or sewerage disposal) on an area immediately adjacent to where such services and utilities are currently being provided providing the activity does not involve additional surface disturbance Tourism and visitation activities on an area where such activities are already taking place If the answer is "yes" the activity can proceed (Category 2 of the Duty of Care Guidelines). Will the activity occur on a Developed Area? "Developed Area" means that the area is developed or maintained for a particular purpose such as use as a park, garden, railway, road or other access route, navigation channel, municipal facility or infrastructure facility, such Yes as power lines, telecommunication lines or electricity infrastructure. Examples: Proceed Use and maintenance of existing roads, tracks and power lines within the existing alignment, or other infrastructure No to 11 Use and maintenance of services and utilities (such as electricity infrastructure; water or sewerage disposal) on an area where such services and utilities are currently being provided.

If the answer is "yes" the activity can proceed (Category 3 of the Duty of Care Guidelines).

		A.	Will the activity occur where:-	
			a. there has been Significant Ground Disturbance; and	
			b. there are no features of the area that may have residual cultural heritage significance?	
		B.	"Significant Ground Disturbance" means: disturbance by machinery of the topsoil or surface rock layer of the ground, such as by ploughing, drilling or dredging.	
		C.	Landscape features, which may also have cultural heritage significance include:	
			Rock outcrops	
			• Caves	
			Foreshores and coastal dunes	Yes -
	11.		Sand Hills	Proceed
			Areas of biogeographical significance, such as natural wetlands	No to 12
			Permanent and semi-permanent waterholes, natural springs.	
			Particular types of native vegetation	
			Some hill and mound formations	
		D.	Extra care must be taken prior to proceeding with any activity that may cause additional surface disturbance to a feature, or the area immediately surrounding the feature which is inconsistent with the pre-existing Significant Ground Disturbance.	
		E.	If there is uncertainty about whether or not there is residual cultural heritage significance in the activity area, answer "No" to this question. The search result from Step 7 will assist in this assessment.	
		F.	If the answer is "yes" the activity can proceed (Category 4 of the Duty of Care Guidelines).	
		A.	The activity will cause additional surface disturbance and is a Category 5 activity under the Duty of Care Guidelines.	
		В.	Send a notice to the Aboriginal Party* for the area seeking comments on the proposed activity – see Template Notice – Aboriginal Cultural Heritage.	Only
	_		*How to identify the Aboriginal Party - Refer to Aboriginal Cultural Heritage Internal Factsheet	when AC manager
	12.	C.	If comments (verbal or written) are received from the Aboriginal party then:-	ent is
			a. Arrange to meet and discuss the comments (these could undertaken done electronically)	agreed (
			b. Ensure agreement is reached about managing Aboriginal cultural heritage before any work commences. This may involve undertaking an inspection of a site and reaching a written agreement about managing avoidance of harm to Aboriginal cultural heritage.	are received
			CANATIVE TITLE COMPLIANCE STEPS	
			NATIVE TITLE COMPLIANCE – STEPS  The checklist assumes native title has not been extinguished by a prior tenure grant over the area in question.	
				A.U.
X	13.	A.	Check the gazetted purpose of the reserve. Is the proposed work clearly consistent with this purpose?	Yes to 15
				No to 14
	14.	A.	The work cannot proceed until a new form of land tenure or authority is secured. Native title should be addressed when the tenure is changed.	Alternate tenure
X	15.	A.	Confirm the date when the <b>reserve was dedicated</b> (by gazette notice).	Yes to 16
	7		Was it on or before 23 December 1996?	No to 22
		A.	Does the work only involve day-to-day maintenance, repair, or general use?	Yes -
X	16.		This does <i>not</i> include upgrades of existing infrastructure, or new construction, enhancements and the like that fall <u>outside the footprint</u> of a current structure.	proceed
		B.	If yes, the activity can proceed without any further compliance action	No to 17

		A.	Is the work replacing or upgrading a public work commenced before 23 December 1996?	
		В.	Construction must have commenced before 23 December 1996, even if it finished after this date.	
X	17.	C.	A public work is the construction or establishment of a building or other structure (including memorials), roads, railway or bridge, a well or bore for water; any major earthworks (i.e. machinery is used to excavate, level or fill) and sometimes a stockroute – if validly constructed by or on behalf of Commonwealth, State or local government. The public work area is the footprint and any adjacent area necessary for or incidental for construction, establishment or operation of the work.	Yes – proceed
		D.	If yes for the entire area, the activity can proceed without any further compliance action. If no, for all or part of the area go to Step 18 for that area.	NO 10 16
			I am unsure when the stormwater pipe and drain was constructed. The lots where gazetted in 1973 which could mean the road and stormwater pipe was constructed then. I believe the open drain was constructed some time later but I have no idea when.	20
X	18.	A.	Is the work replacing or upgrading a public work commenced after 23 December 1996?	Yes - to 19
		A.	Was a notice seeking comment sent to the (then) Native Title Party before construction of the public work commenced?	Yes –
X	19.	B.	If yes for the entire area where the new activity is proposed, the activity can proceed without any further compliance action. If no, for all or part of the area go to Step 20 for that area.	No to 21
			I do not know if any notice was ever sent.	
	20.	A.	Does the work involve new works in an area where there has been no previous public works?	Yes – to 2
_	20)	В.	This would include any area outside the footprint of a previously constructed public work.	No – revie this checklist
		A.	Send a notice to the Native Title Party* for the area seeking comments on the proposed activity – see Template Notice – Native Title.	
	200		*How to identify the Native Title Party - Refer to Native Title Internal Fact Sheet*	Notice and
<b>X</b>	21.	B.	If comments (verbal or written) are received from the Native Title Party then:-	Comment
			<ul> <li>a. These must be considered before proceeding with the work and a decision made to either (i) proceed;</li> <li>(ii) proceed with changes made in response to comments; or (iii) not proceed.</li> </ul>	
_		The	re is no requirement to meet to discuss comments made (thought this could occur).	
	22.	A.	Confirm the date when the <b>reserve was dedicated</b> (by gazette notice).	Yes to 23
-			Was it after 23 December 1996?	No to 15
7	23.	A.	Does the work only involve day-to-day maintenance, repair, or general use?  This does not include upgrades of existing infrastructure, or new construction, enhancements and the like that fall outside the	Yes – proceed
		В.	footprint of a current structure.	No to 24
			If yes, the activity can proceed without any further compliance action	Yes - to 2
	24.	A.	Is the work replacing or upgrading a public work commenced after 23 December 1996?	No to 25
7	24.	A.	Was a notice seeking comment sent to the (then) Native Title Party before construction of the public work commenced?	Yes – proceed
		В.	If yes for the entire area where the new activity is proposed, the activity can proceed without any further compliance action. If no, for all or part of the area go to Step 25 for that area.	No to 25
				Yes - to 2
	25	A. B.	Does the work involve new works in an area where there has been no previous public works?  This would include any area outside the footprint of a previously constructed public work.	No – review





PO Box 1943 Hervey Bay Qld 4655

T 1300 79 49 29
F (07) 4197 4455
E enquiry@frasercoast.qid.gov.au

was frasuroast gld gev.au

# ADVICE OF PROPOSED ROAD WIDENING AND PAVEMENT SEALING WORKS SHELLCOTT STREET, TOOGOOM

Fraser Coast Regional Council wishes to advise of flank widening and pavement sealing works that are scheduled for Shellcott Street, Toogoom. The works will commence Tuesday 7 March 2017, and run for a period of approximately 4 weeks, weather permitting.

The proposed works consist of the widening of the road pavement from bitumen to kerb and the sealing of Shellcott Street, Toogoom.

Motorists and pedestrians are requested to observe roadwork signs, traffic control and signals for the duration of the works.

Any inconvenience which may be caused is regretted and every effort will be made to minimise this aspect for you.

Should you wish to discuss any aspect of this work please contact the Council Officer as referenced below.

Thank you in anticipation of your understanding and cooperation during the course of this work.

Yours faithfully

**Dear Resident** 

IAN MUNRO

**EXECUTIVE MANAGER** 

**INFRASTRUCTURE DELIVERY** 

Phone:

Contact Officer: John Radford

Reference:

0409 316 359 DOCS#: 3297018



# WIDE BAY Water WORK ORDER



Request Det	ails						-	1			Lile				
Customer	John F	Radford	d	Ph.			A	ddress		Uranga		4655			
Contact	John F	Radford	d	Ph.			R	ecorde	d	Jay Sta	ines		Date	21/0	03/2017
Asset Detail	S			140	1000	100		100		alle	and the		-	35	
Description	(Asset	10.33	Non WBV (MISC)	N or U	Jnknov	vn Asset		Loca	lity	Not Ye	et Set				0
Location			Shellcot S	Street	, Toog	oom : No	ot Yet	Set				No	count	5.G	2028
Work Reque	sted		-		-	Land			-	6.5	200		- (		
Job Type		Constr	uction - C	Capita	1		Depa	rtment		etwork ( ervey Ba		ons -	Urge	ency	Medium
Job Descript	tion	Raise	x3 manho	oles								0			
Work Compl	eted					150	1			THE STATE OF THE S				1	200
Time arrived	on site	9	Time wa	ater O	ff	Time	wate	On	Tir	ne Job (	Comple	eted	24 ho	ur-no	tice given
700			NA	7		1	10		1	600			B)		no
Work done (tick one only)			d asset npleted	d (tic	ause :k one only)	Huma Third	c - natur an error		10000	Asset failu Blockage Corrosion Leak Fair wear & Age		Ass Cond n (tick onl	ditio one	2-1	fair serviceable
Comments on work don	RA		anholi				50	min	to	ر د	it r	اوس	1000	يو ل	eprie
Trades Detail	ls (all m	ust sig	gn below .	as na		_	he sat				420				STATE
Park	Name		60	Part Se	Sign	ature Zim		_		arted			pleted	То	8hr
Plant / Materi	als	0					200						500		
Plant: Materials: .	022 3 F	6 REN	1/X												
			ECRU								_				
Job Completi	on										()	Nork S	Supervi	sors u	se only)
As-constructed		/S			Acti	ion			Y	N/A	Date			Signat	ure
are required fo capital constru work		V	Vork com Vork Orde s-con sur	er car	ncelled	as deta	led ab	ove			79-3	17	go	HE	

#### HAZARD / RISK INSPECTION CHECKLIST - WORK SITES (complete over page)

- 1. A risk assessment must be conducted for each job or daily for extended jobs and contracts.
- For each pre-identified hazard tick off each control measure implemented to ensure the risk is reduced to an acceptable level. Circle the corresponding relevant risk level after the controls have been implemented.
- Please list any additional controls that may not be present on this checklist.
- 4. NOTE: If the risk cannot be reduced to an acceptable level your supervisor or WHSO must be consulted prior to work commencing.

LOOK

think through the task and break it into steps

spot the hazard. What Can go wrong?

ASSESS

RTI 2

the risk the hazard presents

MANAGE

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	measures
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MAGE	hazard
MA	the

DO NOT TOLERATE Short cuts or Unsafe Acts! REVIEW the controls - Are they EFFECTIVE? REPORT all HAZARDS and NEAR MISSES Have your work conditions CHANGED? make the changes - make it safe Ask yourself can I get injured?

000000			CONSEQUENCE		
CONTRACT	Imagnificant Minor		Moderate Major	Major	Сответторін
Almost	Madium - 11	Medium - 11 High 15 High - 20		Edverne - 23 Streme - 35	Strems - 3
Likely	Medium - 7	Medium - 7 Medium - 12 High - 17		High - 21	Eritorea - 2A
Possible	time-4	Medium - 8	Medium - 8 Medium - 13 High - 18	High - 18	Detrome - 27
Unlikely	Line-2	(mm - 3	Medium - 9 Medium - 14 High - 10	Medium - 14	High - 10
Rore	(fee-4)	low-3	Medium - 6	Medium - 6 Medium - 10 High - 15	High - 15

1.0 Underground Services Locations Marked		Tick if App. Ri	Risk Ranking	Additional Control Measures (if not assessed as low risk)
Power YES/NO/NA			M	
Gas Service YES/NO/NA			I E	
Telstra YES/NO/NA		3	I N	
Overhead Cable (within 3mt) YES/NO/NA			M	If YES – spotter is required
Others (water, sewer, storm water) YES/NO/NA			M	
2.0 Traffic Control/ Roadwork Signage	Tick if App.		Risk Ranking	Additional Control Measures (if not assessed as low risk)
Are traffic control signs in place		1	M	TRACELL CONES in who is
Is signage clear and clean?	'	1	E	
Are sufficient traffic cones in use?	'	1	I E	
Is the worksite/travel path delineated?	1	1	I	
3.0 Barricading - Unattended Sites	Tick if	Tick if App. Ri	Risk Ranking	Additional Control Measures (if not assessed as low risk)
Are thoroughfares provided (public access). Are protruding	otruding		E E	
乨				
ज.0 Excavation & Trenching	Tick i	Tick if App Ri	Risk Ranking	Additional Control Measures (if not assessed as low risk)
Is equipment and material clear from the edge of trench?	ench?		H W	
Is there potential for trench collapse (dry, sandy, traffic,	ffic,	-1	E E	
structures – pools, buildings, sheds, Telstra pits)			-	
All internal combustion engines kept clear of trench?			H	
5.0 Sewer Repairs/Rising Mains and Pump station		Tick if App Ri	Risk Ranking	Additional Control Measures (if not assessed as low risk)
Check plugging off time - liaise with PS crew or WWTP	TP		H	
Check if rising main enters upstream of work are - If so	f so		M	
make arrangements for pump truck to decrease flow	^			
Check upstream manhole level of sewerage every 30 mins		-	H W	
6.0 Other Hazards	Tick	Tick if App Ri	Risk Ranking	Additional Control Measures (if not assessed as low risk)
Is manual handling an issue for the task?	,		M	Two man lights.
Is mobile plant being used in the work area?			M	5
Does the task involve working at heights?		1	M	
Is there potential for stored energy?			I W	If YES - Llaise with Treatment Operator and refer to Isolation Procedure
Will confined space entry be required?			M	Refer to Confined Space Procedure
7.0 Environmental hazards	Tick t	Tick if App Ri	Risk Ranking	Additional Control Measures (if not assessed as low risk)
Could Land, air or discharge water be affected in any way?			I Z	
8.0 Personal Protective Equipment	Tick i	Tick if App Ri	Risk Ranking	Additional Control Measures (if not assessed as low risk)
Is DDF identified on SWP available and being worn by all?	Cliev		2	If NO – Stop task immediately and obtain correct PDF

Has the SWP for the task been reviewed by all team members

All incidents, near misses and potential hazards reported

Site left clean and tidy and in a safe condition





PO Box 1943 Hervey Bay Qld 4655

T 1300 79 49 29 F (07) 4197 4455 E enquiry@frasercoast.qld.gov.au

www.traseco.ast.gld.gov.oo

# ADVICE OF PROPOSED DRAINAGE WORKS AND ROAD CLOSURE SHELLCOTT STREET TOOGOOM

Fraser Coast Regional Council wishes to advise of drainage works and a road closure scheduled for Shellcott Street, Toogoom. The works will take place from 30 to 31 May 2017, weather permitting.

The proposed works consist of an upgrade to the underground drain across Shellcott Street, Toogoom, located near the CFA Station.

Only local traffic will be permitted. Motorists and pedestrians are requested to observe roadwork signs, traffic control and signals for the duration of the works.

Any inconvenience which may be caused is regretted and every effort will be made to minimise this aspect for you.

Should you wish to discuss any aspect of this work please contact the Council Officer as referenced

Thank you in anticipation of your understanding and cooperation during the course of this work.

Yours faithfully

**Dear Resident** 

IAN MUNRO

**EXECUTIVE MANAGER** 

INFRASTRUCTURE DELIVERY

Contact Officer: Phone: John Radford 0409 316 359

Reference:

DOCS#: 3344891



From: Hayden Madder

**Sent:** Thursday, 13 July 2017 9:42 AM

To: Sammie Doyle

**Subject:** FW: Shellcot Street Toogoom Surfacing Works

Attachments: FW: REQUEST FOR QUOTE - Shellcot Street Toogoom Surfacing; FW: Boral Asphalt

Quote No. Q1601-1791 - Shellcot Street Toogoom Surfacing

Hi Sammie,

In regards to shellcot street. 2 quotes were received from the 2 prequalified asphalt suppliers. Boral were cheaper but due to other commitments were unable to complete the works for a considerable amount of time.

Sunstate Roads/ Colas had been verbally organised by John and in his absence I managed the marking out for asphalt

Regards Hayden

Hayden Madder Project Officer Infrastructure Delivery

From: Hayden Madder

Sent: Wednesday, 22 March 2017 11:10 AM

**To:** John Radford **Cc:** Sammie Doyle

Subject: Shellcot Street Toogoom Surfacing Works

John,

**Sunstate Road Services** 

Boral

Can you confirm availability with Boral to see if they can do the works when you want.

Regards

Hayden

Hayden Madder

**Project Officer** 

Infrastructure Delivery

From: capital.delivery

**Sent:** Monday, 20 March 2017 1:14 PM

To: Hayden Madder

**Subject:** FW: REQUEST FOR QUOTE - Shellcot Street Toogoom Surfacing

Attachments: 7108.01 FCRC Shellcot Street Toogoom Sunstate Road Services Quotation.pdf

Regards Hayden

Hayden Madder Project Officer Infrastructure Delivery

From: Sean McCormick \_\_\_\_\_colas.com.au]

**Sent:** Monday, 20 March 2017 12:07 PM

**To:** capital.delivery **Cc:** Harry Roche

Subject: RE: REQUEST FOR QUOTE - Shellcot Street Toogoom Surfacing

Good Afternoon

Please see Sunstate Road Services Tender Submission for Shellcot Street, Toogoom as requested.

Sunstate Road Services would be available this week if required, subject to weather conditions and current program.

Cheers

**Kind Regards** 

Sean McCormick
Senior Estimator
Sunstate Road Services & Tropic Asphalts



Colas Australia Group Pty Ltd - ABN 11 000 388 161 <u>www.colas.com.au</u>

64 Ron Parkenson Crescent, Bells Creek, QLD 4551

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From: capital.delivery

Sent: Thursday, 16 March 2017 11:42 AM

Cc: Hayden Madder Subject: REQUEST FOR QUOTE - Shellcot Street Toogoom Surfacing
Good Morning
Request for Quote - Internal Works – Shellcot Street Toogoom
You are invited to submit a quotation as per the Standing Offer Arrangement – 2016/2017 with Fraser Coast Regional Council for the above mentioned Works.
Quotations clearly marked "Request for Quote - Internal Works — Shellcot Street Toogoom Surfacing" shall be emailed to
The Principal reserves the right to reject any or all quotes for the works. The lowest priced quote will not necessarily be accepted.
If you are unable to submit a quotation by this time or if you choose not to submit a quotation for other reasons, we would appreciate your early advice.
Should you require any further information please contact Mr Hayden Madder on
Council is doing a flank sealing job on Shellcot Street Toogoom and requires a full Width Seal and Asphalt to finish the Project.
Contractor is required to be available next week when job is finished to Seal at the least and Asphalt shortly after. Can be done both on the same day if resources available.
Contractor is required to Supply 3 traffic controllers for the works.
1143m2 of edge planning to be completed 45mm>0mm
Supply and spray C170 @ 1.0Lm2 with 10mm stone @135m2/m3 for 5420m2 (5420L C170, 40.2m3 of 10mm Aggregate)
Cumply and Lay 25mm AC1011 ADE for E420x2 (e/475x)

Supply and Lay 35mm AC10H AB5 for 5420m2 (~475tonnes)

Regards Hayden

Hayden Madder Project Officer Infrastructure Delivery

Click here to report this email as spam.



#### **OUOTATION**

20th March 2017 7108 01 Date: **Quote No:** Fraser Coast Regional Council To:

Phone No: Hayden Madder Fax No: Attn:

Shellcot Street Toogoom a frasercoast.qld.gov.au Ref: Email:

#### <u>Please see attached Schedule of Rates</u>

#### **Project Specific Conditions:**

- 1. Rates are exclusive of GST.
- This quotation is valid for 30 days. Hereafter Sunstate Road Services reserves the right to review the quoted rates. 2.
- 3. This quotation is subject to credit approval by Sunstate Road Services.
- In the absence of supplied specifications these works will be completed in accordance with the Australian Standards specifications and or relevant TMR Specification.

#### 5. **Asphaltic Site Specific Conditions:**

- No provision has been made for induction costs; induction costs will be charged at \$1500 per hour, per crew, if required.
- Sunstate Road Services will not be responsible for any areas that hold water if the pavement grades are less than 3%
- Water to be made available onsite for rollers. C.
- Allowance made for 1 Establishment for the Asphalt.
- Allowance made for 1 Establishment for the Profiler.

#### **Spray Seal Specific Conditions:** 6.

- Spray-seal design and approval to seal remains the responsibility of the client.
- Should the client vary the nominated spray application rates upon commencement of the works, Sunstate Road Services reserves the right to recalculate the quoted rate.
- Sweeping is based on completing by tractor broom, additional costs will be charged for any handwork. C.
- This quotation is based on the use of an Armstrong roller spreader for spreading of aggregates.
- Allowance made for 1 Establishment for the Single/Single Seal.

#### 7. Ouotation is based on:

- The areas provided in the request for quotation. Should actual areas vary by greater than 10%; Sunstate Road Services reserves the right to recalculate the quoted rates.
- The current published general market price for bitumen as per the date of this quotation, and are subject to Rise and Fall in line with variations to the general market price.
- Completion of the works during normal working hours, Monday to Friday. No allowance has been made for weekend works or night works.
- Sunstate Road Services Single Enterprise Agreement which is National Code Compliant.
- The work site pavement grades and slopes being able to safely accommodate Sunstate Road Services standard road surfacing equipment and related application processes. The pavement must be able to support Sunstate Road Services equipment, and the work site must be clear of obstacles and in Sunstate Road Services opinion must not have excessive handwork.
- The availability of suitable all weather access to all work areas including float moves for plant and equipment.
- The nominated establishments stated, if none specifically stated then one establishment has been allowed. Additional establishments charges will apply if nominated establishments are exceeded.

HEAD OFFICE	HERVEY BAY PO Box 1481, Hervey Bay QLD 4655	Ph: 07 4191 2900	Fax: 07 4194 5073
	HERVEY BAY - 270 Urraween Road, Hervey Bay Qld 4655	Ph: 07 4191 2900	Fax: 07 4194 5073
	BUNDABERG – 159 FE Walker Street, Bundaberg QLD 4550	Ph: 07 4159 3409	Fax: 07 4155 6789
	SUNSHINE COAST - 65 Ron Parkenson Cres, Bells Creek, QLD, 4551	Ph: 07 4191 2948	Fax: 07 4194 5073
	TOWNSVILLE - 12 Mafeking Street, Stuart QLD 4811	Ph: 07 4729 1938	Fax: 07 4729 1931
	ROCKHAMPTON – 33 Macquarie St Gracemere Qld 4702	Ph: 07 4191 2982	Fax: 07 4933 4588

**EMAIL** admin@sunstateroads.com.au ABN: 91 169 872 208 Sunstate Road Services

RTI 2017/18-003



- 8. This quotation is a schedule of rates quotation is not to be extended to a lump sum price. Where the pricing is so extended then this is for information only.
- 9. Confirmation of work <u>must</u> be either by signing and returning this quotation, letter of acceptance or purchase order.
- 10. In the event of site delays through no fault of Sunstate Road Services, stand down rates of \$1,500.00 per hour will apply for the surfacing crew. With regard to inclement weather, should the client instruct Sunstate to attend site and wait for suitable conditions, and no work is undertaken a stand by rate of \$1,500.00 per hour will be applicable for the surfacing crew.
- 11. Not included in this Offer:
  - a. Survey requirements, final as built survey, set out and Paveset computerised level control.
  - b. Cutter or additives, unless stated specifically as an item within the bill of quantities.
  - c. Saw cutting.
  - d. MTV Material Transfer Vehicle.
  - e. Water Cart for sprayed bituminous sealing works.
  - f. Crack filling or Bitak supply or application.
  - g. Road Roughness Testing for any of the works.
  - h. Induction allowances, site or location penalty rates or allowances, Medicals.
  - i. Suction broom for sweeping and cleaning.
  - j. Stockpile sites and pad preparation. (Stockpile site must be within 10km radius of work site)
  - k. Protection of services or road fixtures (pits, grates, drains, pipes, hydrants, valve boxes, service covers, bridge joints or other road fixtures or furniture).
  - 1. Temporary works.

Our tendered price is subject to final confirmation of

- > Specifications.
- > Works Programme.
- > Construction Methodology.
- > Sub-contract Agreement.

Thank you for the opportunity to submit this quotation, should you require any additional information please contact the undersigned on (07) 4191 2948 or for Programming enquiries Harry Roche on 07 4191 2900 or 0428 675 242.

Yours faithfully



Sean McCormick Senior Estimator

I/We acknowledge and accept this quotation and agree to all terms and conditions.

Purchase Order Number: ...... Purchase Order Attached: Yes No Date: .....

HEAD OFFICE HERVEY BAY - PO Box 1481, Hervey Bay QLD 4655 Ph: 07 4191 2900 Fax: 07 4194 5073 HERVEY BAY - 270 Urraween Road, Hervey Bay Qld 4655 Ph: 07 4191 2900 Fax: 07 4194 5073 BUNDABERG - 159 FE Walker Street, Bundaberg QLD 4550 Ph: 07 4159 3409 Fax: 07 4155 6789 SUNSHINE COAST - 65 Ron Parkenson Cres, Bells Creek, QLD, 4551 Ph: 07 4191 2948 Fax: 07 4194 5073 TOWNSVILLE - 12 Mafeking Street, Stuart QLD 4811 Ph: 07 4729 1938 Fax: 07 4729 1931 ROCKHAMPTON - 33 Macquarie St Gracemere Qld 4702 Ph: 07 4191 2982 Fax: 07 4933 4588 **EMAIL** 

NL <u>admin@sunstateroads.com.au</u>
ABN: 91 169 872 208 Sunstate Road Services

# **Schedule Of Rates**



Quote Number:

7108.01

Date: 20 March 2017

SHELLCOT STREET, TOOGOOM

Client Ref:

Client Fraser Coast Regional Council

Client Phone 1300 79 49 29

Client Fax 07 4197 4455

	ING WORKS  CONTROL OF TRAFFIC	- T	1 11	
201(a)	Control of Traffic (3 Men + 1 Ute)	1.00	LS	
	SPRAYED BITUMINOUS SURFACING			
244(b)	Supply and spray binder-class C170 bitumen (incl. adhesion agent 0.3% & surface prep) (1.0 L/m2)	5,420.00	Litres	
244(f)	Supply, precoat, apply and incorporate aggregate (10mm) @ 135m2/m3	40.20	m3	
	ASPHALTIC CONCRETE	_ xO		
245(e)	Dense Graded Asphalt - Wearing Course (AC10H (AB5) Mix 35mm thick)	475.00	Tonne	
	COLD MILLING	9		
251(a)(i)	Removal of material by cold milling, edge planning 45mm>0mm depth.	1,143.00	m2	
Sub Totals		•	•	
	ive of GST			

#### **CONDITIONS OF QUOTATION**

#### **DEFINITIONS AND INTERPRETATION**

'Client' means the customer named on the quotation, and if no customer is named, the customer to whom the Work or material is supplied.

"Company" means Sunstate Road Services, ABN 91 169 872 208 or Sunstate Asphalt Ptv Ltd. ABN 95 151 868 398 as stipulated on the face of this quotation.

"Conditions" means these conditions of quotation and any additional matters prescribed on the face of this quotation. "Consequential Loss" means loss of revenue, loss of profits, loss of anticipated savings or business, loss of data, loss of value of equipment (other than cost of repair), loss of opportunity or expectation loss and any form of consequential,

of value of equipment (other than cost of repair), loss of opportunity or expectation loss and any form of consequential, special, indirect, punitive or exemplary loss or demages, however it arises (including as a result of negligence). 
"Intellectual Property" all registered and unregistered rights in relation to present and future copyright, trade marks, designs, know-how, patents, confidential information, moral rights and all other intellectual property as defined in article 2 of the Convention establishing the World Intellectual Property Organisation 1987.
"Loss" means any liability, however it arises (including as a result of negligence) and includes any loss, claim, damage, demand, injury or death and a fine or penalty imposed by a statutory or other authority.
"Pavement" means ground conditions or road base as applicable at the Site prepared by the Client.
"Rates" means the unit rate shown on the face of this quotation, or otherwise used to calculate the prices in the nutration.

quotation.

'Site' means the location for performance of the Work specified on the face of this quotation.

'Sub-surface' means all matter beneath the Pavement, including but not limited to soil, rock, pipes, cabling and

"Work" means the materials or the materials and services supplied or to be supplied as described on the face of this

#### AGREEMENT

Except to the extent otherwise agreed in writing between the parties, the Conditions are all the terms agreed by the arties and the Client acknowledges that it has not refled on any representation, inducement, warranty or promi hich is not set out below. The Conditions may only be varied by both parties agreement in writing. parties and the Client acknowle

#### VALIDITY

VALIDITY
This quotation is an offer open to acceptance by the Client within 30 days from the date on the quotation and any such acceptance must be on the basis that Work is started within 3 months of the date of the quotation. The offer is made subject to the Client meeting the Company's credit approval requirements. The Client's written order to commence the Work or commencement of Work by the Company constitutes acceptance of the offer.

#### POINT OF SUPPLY

This quotation is based on all materials including, without limiting the generality hereof, all bitumen, bitumen emulsion, fluxes, additives, asphalt, aggregates and all other products necessary for completion of the Work being available from Company's normal point of supply with respect to the locations of the Work (as determined by the Company) or as otherwise specified in these Conditions. Should conditions beyond control of the Company necessitate supply from any other point of supply any resultant increase in cost will be paid for by the Client.

#### EXTENT OF WORK

This quotation is based on supply of the full range of Work performed at the Site. Should the quantities supplied or location of the Site vary from the quotation the Company reserves the right to adjust the Rate. If the Company commences the Works, and terminates in accordance with clause 18 of these Conditions, the Client will nevertheless be liable to pay for the work actually performed at a rate determined by the Company having regard to the Rate, adjusted for establishment cost, overheads, fixed costs and loss of profit and to the proportion of work actually performed of the Work, whether that work is satisfactory to the Client or the local authority or any other relevant authority or person or not.

#### BASIS OF PAYMENT

The Work will be paid for by the Client at the Rates according to the actual quantities supplied as shown on the delivery docket or spray sheet. The Client acknowledges that the Rates are based on bitumen prices, material prices, labour rates, rall haulage rates and road haulage rates applicable as at noon on the date shown on the face of the quotation and the Client further acknowledges that the Rates are subject to escalation in such prices and rates as shall occur between the date shown on the face of this quotation and the date of completion of the Work and any such increase shall be paid for by the Client.

#### LIMITATION OF LIABILITY AND INDEMNITY

- International Control of Laboratory and Control of Control of
- acid sulphate subgrades or imported fill, or groundwater with high acidity or alkalinity; for any defects in the Work unless the Client notifies the Company within 14 days of the date of delivery of the materials or the supply of the services specifying the defect, which notice shall be a condition precedent to any right to recover by the Client; (c)
- for any Loss arising from delay;
- for any Consequential Loss.

(a) for any Loss arising from materials supplied by the Company being placed or installed by others, and the Company's total aggregate liability in all circumstances is limited (to the extent permitted by law) to the amount paid by the Client for the Work.

To the maximum extent permitted by law, the Client hereby indemnifies and forever holds harmless the Company from all Losses caused or contributed to / by any negligent and / or wilfful act or omission or any breach of these Conditions by the Client, or by the Company arising from the carrying out the Works in accordance with these Conditions.

#### JOB AVAILABILITY

The Company requires adequate notice from the Client of the time when the Client would prefer the Work to be performed. What constitutes 'adequate notice' shall be at the Company's sole discretion. No guarantee is given by the Company that Work will commence on the date requested or that the Work will be completed by any particular date. Should the execution of the Work not be possible for any reason whatsoever then the maintenance of the Powement in an acceptable condition up until the time of the performance of the Works shall be the responsibility of the Client.

#### SITE ACCESS

SITE ACCESS
The Client will be responsible for providing adequate, suitable (including for all relevant machinery) and timely access to the Site for the Company's material, personnel and equipment and the Client will indemnify the Company for all Loss (including but not limited to delay costs, establishment costs and outlays) incurred by the Company as a result of failure to provide such access. In the case where materials only are supplied by the Company to the Client, the Client shall indemnify the Company for any Loss incurred by the Company arising out of or in connection with the pomposes of delivery. Where the Company leaves equipment on the Site in connection with the performance of the Works, the Client shall take all reasonable precautions to secure the Site to prevent loss or damage to the equipment or any injury to persons entering upon the Site.

#### POSTPONEMENT OR CANCELLATION

Subject to the provisions of clause 8 above, labour, equipment and materials will be dispatched in quantities as ordered by the Client and at such times so as to enable performance of the Works at the times advised by the Client. Should execution of the Works be subsequently delayed for any reason beyond the control of the Company or as a result of any cause which the Client is or should reasonably have been aware of all Loss arising from the delay will be paid for by the Client and the Client shall indemnify the Company in respect of such Loss.

#### SITE VISITS

This quotation is based on the whole of the Work being available for completion at one (1) Site visit unless otherwise agreed or stated in the quotation.

This quotation covers only the Work. Any additional materials or services which the Company agrees to supply or carry out will be paid for by the Client at a rate to be determined in accordance with clause 14. Without in any way limiting the generality of this clause 12, unless expressly stated on the face of this quotation, the Work does not include;

- more than one site to complete the Work; removal of any materials from guttering and / or channeling;
- sweeping or cleaning of Work;
- design of the Work; work performed in accordance with clause 18(d).

#### HOURS OF WORK

Unless otherwise stated herein, this quotation is based on the whole of the Work being conducted during normal hours Offices of the whole stated inertial, this quotation is based on the whole of the state to long contacts about 1 and 1 and 1 as defined below. Should it be necessary to conduct the Works or any necessary establishment work on a Saturday, Sunday or public holiday, then additional charges will apply which will be calculated in accordance with the variations clause. The Company's normal hours of business are between the hours of 7:00 am to 4:30 pm Monday to Friday.

#### VARIATIONS

The Company is not obliged to carry out any variation which is outside the scope of the Works. Any variation that the Company does carry out shall be subject to these Conditions and shall be charged to and paid for by the Client at an agreed rate or failing agreement at the rate determined by the Company.

The Client agrees to pay the amount shown on invoices issued by the Company. Invoices will be issued monthly, and at completion of the Works.

#### TERMS OF PAYMENT

Approved account clients must pay invoices in full, without any deduction or set off, within 30 days of the date on the invoice. The Company will apply and the Customer must pay interest on any unpaid portion of the invoice beyond the due date until full payment is received at a rate equivalent to the reference rate charged by ANZ Banking Group. All other clients will be required to make payment in full prior to commencement of work.

#### 17.

- The prices quoted herein do not include any statutory or Government charges. Should any such charges or any other revenue tax become applicable to the materials the subject of this quotation such tax or charge as the case may be shall be charged to and paid for by the Client in addition to the price otherwise payable under this
- Nowthistanding anything else in these Conditions, if the Company has any liability to pay the Goods and Services Tax ("GST") on any materials and/or services supplied herein to the Client, the Client shall pay to the Company the amount of such GST at the same time as amounts otherwise payable to the Company.

#### PAVEMENT AND SUB-SURFACE ACCEPTABILITY

This quotation is provided on the basis that the Pavement and Sub-surface have been prepared to the satisfaction of the Client and to a standard appropriate for the Works. The Client warrants that the Pavement and Sub-surface comply in all respects with all relevant contractual, regulatory, and other applicable specifications and will allow the normal and reasonable use of the Company's road surfacing equipment and will have the surface grading and texture characteristics which are suitable for the Works. The Company is under no obligation to inspect or test the Pavement or Sub-surface to ascertain whether it meets the above requirements and may proceed with the Work assuming that the Pavement and Sub-surface meet all such requirements, in the event that the Pavement or Sub-surface is not complete at the time the Company intends to conduct the Works or for any reason is not available, then the Client shall be responsible for all related Loss. If the Pavement or Sub-surface or any part of either fails to meet the above requirements or sub-surface or any part of either fails to meet the above

- possible for all related Loss. If the Pavement or Sub-surface or any part of either falls to meet the above imments or is in any other way unsuitable: the Company (without prejudice to any other rights it may have against the Client) may at its option terminate this agreement at any time after it becomes aware of such failure, whether it has commenced the Works or not and all costs and expenses incurred by the Company to the date of termination shall be borne by the Client, the Company will not be liable to the Client for any Loss arising from failing to commence or complete the
- Works:
- if the Company completes the Works and due to the failure of the Pavement or Sub-surface to meet the above requirements, or due to any variation uses more material than envisaged in this quotation, the Client shall pay for
- requirements, or due to any variation uses more material than envisaged in this quotation, the Cienti shall pay for such extra material at the Rates;
  if, at the request of the Client, the Company agrees to perform any additional works to alter or repair the Pavement or Sub-surface, to the extent permitted by law, such works will be carried out by the Company without liability to the Client for either the suitability or acceptability of the Pavement or Sub-surface, the additional works performed, or otherwise with respect to the alterations or repairs to the Pavement and Sub-surface and the Client hereby Indemnifies the Company against any Loss that may arise out of or in connection with such additional

#### FORCE MAJEURE

The Company shall not be liable in any way for any delay in the performance of Works where such delay occurs by reason of any cause whatsoever beyond the reasonable control of the Company, including without limiting the generality thereof, restrictions of Government or other statutory authorities, wars, fires, epidemics, failure or fluctuation in any electrical power supply, storm, flood, earthquake, accident, labour dispute, materials or labour shortage, the change or introduction of any law or regulation or an act or omission of any supplier or other third party or any failure of any equipment owned or operated by them.

#### MAINTENANCE

This quotation does not cover any maintenance after completion of the Works. The Client acknowledges that the Works will be paid for in full and no provision has been made for the retention of any monies by the Client unless otherwise agreed to by the Company in writing.

#### INFORMATION

- (a) The Client acknowledges and agrees that:
  - The Client must provide all relevant information (including, but not limited to all specifications relating to the Works, details relating to the Site, and other matters that may affect the Company's ability to complete the Works) to the Company to enable the Company to perform the Works; and the Company in giving this quotation has relied upon the accuracy and completeness of such
  - information,

- information, and the Client hereby warrants to the Company the accuracy and completeness of all information supplied. If the Company has provided the Client with any information (including any design services or other advice) in connection with the Works, the Client acknowledges that it has formed its own opinion as to the correctness or otherwise of the information and has not and will not rely on the Company in respect of such information. All Intellectual Property of the Company, including any developed during the course of performing the Work, shall remain the sole property of the Company and no license, right or other interest of any kind in respect of such Intellectual Property is granted, created or transferred to the Client.

#### RISK AND PPSA

Upon delivery of any materials the subject of this quotation to the Site or any temporary stockpiles, all risk in relation to the materials shall pass to the Client. Where materials are sold ex-bin, risk passes to the Client when the material is loaded on the Client's vehicle

loaded on the Ctent's vehicle.

The Client acknowledges all consumables such as geofabric, quarry materials and any items used in construction remain the property of the Company until payment in full is made for them. The Client further acknowledges all plant and equipment on site remains at all time the property of the Company and in those circumstances cannot be acquired, pledged or retained by the Client or anyone else under its guidance, direction or influence. The Client further acknowledges that the matters covered in this clause create a security interest as that defined in the Personal Property Security Act 2011 (CTH) (PPSA) and agree to cooperate and if required sign all necessary consents to allow the Company to register and protect any interest they seek to do so as those terms are identified under PPSA.

#### GENERAL

GENERAL (Severance) Any provision of these Conditions which is unenforceable or partly unenforceable is, where possible, to be read down so as to be enforceable, and if it can not be read down, severed to the extent necessary to make these Conditions enforceable, unless this would materially change the intended effect of these Conditions. (Walver) A right may only be waived in writing, signed by the partly giving the waiver, and no other conduct of a partly (including a failure to exercise, or delay in exercising, the right) operates as a waiver of the right or otherwise prevents the exercise of the right. (No Implied warranties) All conditions or warranties that would be implied into these Conditions by law or statute (including a final first limited in the limited in the limited to how a unlike or fiftness for pursons are excluded to the output promitted by

(including, but not limited to those relating to quality or fitness for purpose) are excluded to the extent permitted by law.

(Insolvency) If the Client is or becomes or is presumed to be insolvent (including where any steps are taken by a mortgagee to enter into possession of the Client's assets, or to have a receiver, administrator or liquidator appointed in respect of the Client, or to have the Client declared bankrupt, or enter into any scheme of arrangement), the Company may immediately terminate its engagement under these Conditions.

(Governing law) These Conditions are governed by the laws of the State or Territory in which the Work is performed. If

Work is performed outside Australia, the Conditions are governed by the laws of Queensland. The parties submit to the non-exclusive jurisdiction of the courts of that State or Territory and any courts which may hear appeals from those

(Insurance) The Client must take out and maintain those policies of insurance that would be held by a reasonably prudent customer in the position of the Client.

(No Adverse Interpretation) These Conditions are not to be interpreted against the interests of a party merely because that party proposed this document or some provision in it or because that party replies on a provision of these Conditions in party of the second that party proposed this document or some provision in it or because that party relies on a provision of these

Conditions to protect itself.

Form: SF-11 Sunstate Road Surfaces / Sunstate Asphalt 123 Issue: July 2014 RTI 2017/18-003

From: capital.delivery

**Sent:** Monday, 20 March 2017 4:03 PM

To: Hayden Madder

Subject: FW: Boral Asphalt Quote No. Q1601-1791 - Shellcot Street Toogoom Surfacing

Attachments: Quote Q1601-1791.pdf

Follow Up Flag: Follow up Flag Status: Flagged

Sammie Doyle Administration Officer Infrastructure Delivery

----Original Message-----

From: Owen, Chris boral.com.au]

Sent: Monday, 20 March 2017 3:39 PM

To: capital.delivery

Subject: Boral Asphalt Quote No. Q1601-1791 - Shellcot Street Toogoom Surfacing

Dear Sir / Madam

We have pleasure in submitting our offer for the above works as detailed in the attached quotation. Should you require any further information please do not hesitate to contact our office.

Regards,

Chris Owen
Account Manager Wide Bay

BORAL RESOURCES (QLD) PTY LIMITED P.O. Box 70, Bundaberg Qld. 4670 Telephone (07) 4153 1071 Fax (07) 4153 1357

www.boral.com.au

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#### QUOTATION

# Boral Asphalt Boral Bitumen



**BORAL RESOURCES (QLD) PTY LIMITED** 

ABN 46 009 671 809

Cullen Avenue West, Whinstanes Qld 4007 PO Box 227, Hamilton Central Qld 4007 Telephone (07) 3268 8011 Facsimile (07) 3268 1071

www.boral.com.au

Fraser Coast Regional Council PO Box 1943

Hervey Bay QLD 4655

Attention: Hayden Madder **Quote Number:** Q1601-1791 Date: 20 MAR 2017

Mobile:

Phone:

Fax:

Dear Sir,

We have pleasure in submitting our quotation for works as detailed below. Should you require any further information please do not hesitate to contact our office.

**Job Title** Shellcot Street Toogoom Surfacing

Site Address Shellcot Street, Jeppesen Street east Toogoom

Descripti	on	Quantity	Unit	Rate(\$)	Amount(\$)
1, BITUMII	NOUS SURFACING				
F201{a}	Control of Traffic in accordance with MUTCD by accredited traffic controllers. {Three Traffic Controllers allowed}	1.00	Lump sum		
F244{b}.	Supply and spray binder - class 170 bitumen {including adhesion agent 0.3% & surface preparation} {1.0 l/m2}	5,420.00	L		
F244{f}	Supply, precoat, apply and incorporate aggregate {10mm} @135m2/m3	40.20	m3		
F245{c}	Dense Graded Asphalt - Wearing Course (AC10 AB5 Mix 35mm thick){Area = 5420m2}	475.00	т		
F251{a}1	Removal of material by cold milling 0 - 40mm depth edge planning	1,143.00	m2		

#### QUOTATION



Quote Number: Q1601-1791 Date: 20 MAR 2017

#### **Project Specific Conditions:**

Traffic control in accordance with TMR - MUTCD (By accredited controllers) (Three Traffic Contollers Allowed).

Number of Visits allowed for Profiling and Seal - 1

Client to supply Water Cart in preparation of the surface prior to spraying.

Number of Visits allowed for Asphalt - 1

All work to be carried out in normal working hours, Monday to Friday.

Our price is subject to mutual agreement of final program.

Our rates do not allow for a Material Transfer Device.

Boral require a customer representative to be present on site to comfirm and agree by signing off on Boral's documentation the quantities of work completed on a daily basis.

Our price will include Rise and Fall. It will remain firm for 90 days. All bitumen price movement will however be recovered on a direct cost recovery. For quotations exceeding 90 days, a review of pricing will be undertaken and adjusted if required.

#### Standard Conditions:

The above rates and prices do not include any goods and services tax, however, any applicable goods and services tax will be added in accordance with, and subject to, the applicable GST law as defined in a New Tax System (Goods and Services Tax) Act 1999

Your attention is specifically drawn to the Conditions of Quotation, Standard Conditions and Project Specific Conditions included as part of this quotation.

The company will not be liable to the client for any damage to the asphalt pavement which is caused by chemical attack from naturally occurring ground conditions such as acid sulphate subgrades or imported fill, or groundwater with high acidity or alkalinity.

Our price and acceptance of the work offer is subject to unrestricted access to and at the work site for Boral's standard road surfacing equipment and related application processes. This includes, among other things, pavement that is able to support Boral's equipment, a work site that is clear of obstacles, a work site that does not, in Boral's opinion, have excessive handwork.

Our price and acceptance of the work is subject to the work site pavement grades and slopes, including access to the work site, being safe, in Boral's opinion, for the operation of Boral's standard road surfacing equipment and related application processes.

Our price is subject to escalation in costs, please refer to our Conditions of Quotation Clause 6 regarding this.

Work Exclusions - Boral shall not be held liable for any failures of the Asphalt that occur as a result of a failure within the underlying layers. Also Boral shall not be held liable for any damage to the Asphalt resulting from external sources, including but not limited to: Traffic Accidents, Spillage of hazardous materials, Materials falling off vehicles, Travelling of tracked plant (other than Borals) after the date of Practical Completion and Overtopping of the road surface with water as a result of flooding.

If the introduction of a regime relating to the emission, removal, mitigation, reduction, avoidance or sequestration of greenhouse gases (Carbon Pollution Reduction Scheme) results in any additional financial burden whatsoever to the Company arising from the manufacture or supply of goods or services under these Conditions, the Company may increase the Rates to recover the reasonable net costs incurred by the Company arising from any Carbon Pollution Reduction Scheme affecting the supply/performance of the Goods and Work.

Our offer is a schedule of rates and is not a lump sum offer. Invoiced quantities will be based on actual quantities supplied and placed.

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#### QUOTATION



Quote Number: Q1601-1791 Date: 20 MAR 2017

ased under Right to Information Act 2009 Authorised by: **Chris Owen** I/We hereby acknowledge and accept this quotation and agree to the relevant terms and conditions as set out. Name: ..... Signature: .....

Page 3 of 4

CAIRNS Aumuller Street Cairns 4870 (07) 4035 1933

TOWNSVILLE 616-622 Ingham Rd Townsville 4814 (07) 4774 5102 MACKAY

ROCKHAMPTON Ron Searle Drive
Outer Harbour 4740
(07) 4955 1508

Lakes Creek Road
Rockhampton 4700
(07) 4934 8266

BUNDABERG Production Street Bundaberg 4670 (07) 4153 1071

HERVEY BAY Lower Mountain Dr Dundowran 4655 (07) 4128 7201

Date: .....

NARANGBA Potassium Street Narangba 4504 (07) 3203 1566

WHINSTANES Cullen Ave West Whinstanes 4007 (07) 3268 8011

(If applicable)

Order No.: .....

GOLD COAST Lot 1, Bermuda St Andrews 4219 (07) 5593 5488 TOOWOOMBA Industrial Ave Wilsonton 4350 (07) 4634 5955

#### **CONDITIONS OF QUOTATION**

#### **DEFINITIONS AND INTERPRETATION**

on the quotation, and if no customer is named, the customer to whom the Work is "Client" m suppl

"Company" means Boral Resources (Qld) Pty Limited

"Conditions" means these conditions of quotation and any additional matters prescribed on the face of this quotation.

"Consequential Loss" means loss of revenue, loss of profits, loss of anticipated savings or business, loss of data, loss of "Consequential Loss" means loss of revenue, loss of profits, loss of anticipated savings or business, loss of data, loss of value of equipment (other than cost of repair), loss of opportunity or expectation loss and any form of consequential, special, indirect, punitive or exemplary loss or damages, however it arises (including as a result of negligence). "Includes" or "including" means includes or including without limitation.
"Intellectual Property" all registered and unregistered rights in relation to present and future copyright, trade marks, designs, know-how, patents, confidential information, moral rights and all other intellectual property as defined in article 2 of the Convention establishing the World Intellectual Property Organisation 1967.
"Loss" means any liability, however it arises (including as a result of negligence) and includes any loss, claim, damage, demand, injury or death and a fine or penalty imposed by a statutory or other authority.
"Pavement" means ground conditions or road base as applicable at the Site prepared by the Client.
"Rates" means the unit rate shown on the face of this quotation, or otherwise used to calculate the prices in the quotation.

"Site" means the location for performance of the Work specified on the face of this quotation.
"Sub-surface" means all matter beneath the Pavement, including soil, rock, pipes, cabling and trenches and services.
"Work" means the materials or the materials and services supplied or to be supplied as described on the face of this

#### **AGREEMENT**

Except to the extent otherwise explicitly agreed in writing between the parties, these Conditions(and the credit application completed by the Clerit (and capit guarantees, if applicable) govern the entire relationship between the Company and the clerit in connection with the Work and will prevail over any other document (including purchase order terms or procurement terms provided by the Clerit or terms on the back of delivery dockets to the extent inconsistent with these Conditions) from time to time. To the extent of any inconsistency between the credit application, the credit guarantees and these Conditions, these Conditions prevail. The Client acknowledges that it has not relied on any representation, inducement, warranty or promise which is not set out below. The Conditions may only be varied by both parties agreement in writing.

#### VALIDITY

This quotation is an offer open to acceptance by the Client within 30 days from the date on the quotation and any such acceptance must be on the basis that Work is started within 3 months of the date of the quotation. The offer is made subject to the Client meeting Boral Limited credit approval requirements. The Client's written order to commence the Work or commencement of Work by the Company constitutes acceptance of the offer

#### POINT OF SUPPLY

This quotation is based on all materials including, without limiting the generality hereof, all bitumen, bitumen emulsion, fluxes, additives, asphalt, aggregates and all other products necessary for completion of the Work being available from Company's normal point of supply with respect to the locations of the Work (as determined by the Company) or as otherwise specified in these Conditions. Should conditions beyond control of the Company necessitate supply from any other point of supply any resultant increase in cost will be paid for by the Client.

#### EXTENT OF WORK

EXTENT OF WORK
This quotation is based on supply of the full range of Work performed at the Site. Should the quantities supplied or location of the Site vary from the quotation the Company reserves the right to adjust the Rate. If the Company commences the Works, and terminates in accordance with clause 18 of these Conditions, the Client will nevertheless be liable to pay for the work actually performed at a rate determined by the Company having regard to the Rate, adjusted for establishment cost, overheads, fixed costs and loss of profit and to the proportion of work actually performed of the Work, whether that work is satisfactory to the Client or the local authority or any other relevant authority or person or not.

#### BASIS OF PAYMENT

The Work will be paid for by the Client at the Rates according to the actual quantities supplied as shown on the delivery docket or spray sheet. The Client acknowledges that the Rates are based on bitumen prices, material prices, labour rates, rail haulage rates and road haulage rates applicable as at noon on the date shown on the face of the quotation and the Client further acknowledges that the Rates are subject to escalation in such prices and rates as shall occur between the date shown on the face of this quotation and the date of completion of the Work and any such increase shall be paid for by the Client.

#### LIMITATION OF LIABILITY AND INDEMNITY

- The Company shall not be liable in any circumstances:

  (a) for any damage to any property of whatsoever kind situated in, on or adjacent to the Site resulting from Work performed in accordance with these Conditions;
- perionined in accordance with trace conducting, for any damage to the Work which is caused by chemicals from naturally occurring ground conditions such as acid subhate subgrades or imported fill, or groundwater with high acidity or alkalinity; for any detects in the Work unless the Client notifies the Company within 14 days of the date of delivery of the materials or the supply of the services specifying the defect, which notice shall be a condition precedent to any right to recover by the Client; (c)
- for any Loss arising from delay; for any Consequential Loss,

(c) it any observations are significant to the company being placed or installed by others, and the Company's total aggregate liability in all circumstances is limited (to the extent permitted by law) to the amount paid by the Client for the Work.

paid by use destin at the versus.

To the maximum extent permitted by law, the Client hereby indemnifies and forever holds harmless the Company from all Losses caused or contributed toby any negligent and / or willful act or omission or any breach of these Conditions by the Client; or by the Company arising from the carrying out the Works in accordance with these Conditions.

#### JOB AVAILABILITY

The Company requires adequate notice from the Client of the time when the Client would prefer the Work to be performed. What constitutes 'adequate notice' shall be at the Company's sole discretion. No guarantee is given by the Company that Work will commence on the date requested or that the Work will be completed by any particular date. Should the execution of the Work not be possible for any reason whatsoever then the maintenance of the Pavement in an acceptable condition up until the time of the performance of the Works shall be the responsibility of the Client.

#### SITE ACCESS

STE ACCESS
The Client will be responsible for providing edequate, suitable (including for all relevant machinery) and timely access to the Site for the Company's material, personnel and equipment and the Client will indemnify the Company for all Loss (including delay costs, establishment costs and outlays) incurred by the Company as a result of failure to provide such access. In the case where materials only are supplied by the Company to the Client, the Client shall indemnify the Company for any Loss incurred by the Company arising out of or in connection with the Company for any Loss incurred by the Company arising out of or in connection with the performance of the Works, the Client shall take all reasonable precautions to secure the Site to prevent loss or damage to the company can be included the Site of the prevent loss or damage. to the equipment or any injury to persons entering upon the Sit

#### POSTPONEMENT OR CANCELLATION

Subject to the provisions of clause 8 above, labour, equipment and materials will be dispatched in quantities as ordered by the Client and at such times so as to enable performance of the Works at the times advised by the Client. Should execution of the Works be subsequently delayed for any reason beyond the control of the Company or as a result of any cause which the Client is or should reasonably have been aware of all Loss arising from the delay will be paid for by the Client shall indemnify the Company in reasonably have been aware of all Loss. Client and the Client shall indemnify the Company in respect of such Loss.

#### SITE VISITS

This quotation is based on the whole of the Work being available for completion at one (1) Site visit unless otherwise agreed or stated in the quotation

#### ADDITIONAL SERVICES

This quotation covers only the Work. Any additional materials or services which the Company agrees to supply or carry out will be paid for by the Client at a rate to be determined in accordance with clause 14. Without in any way limiting the generality of this clause 12, unless expressly stated on the face of this quotation, the Work does not include;

(a) more than one site to complete the Work;

- removal of any materials from guttering and / or channeling; sweeping or cleaning of Work;
- design of the Work
- work performed in accordance with clause 18(d).

#### 13. HOURS OF WORK

Unless otherwise stated herein, this quotation is based on the whole of the Work being conducted during normal hours as defined below. Should it be necessary to conduct the Works or any necessary establishment work on a Saturday, Sunday or public holiday, then additional charges will apply which will be calculated in accordance with the variations clause. The Company's normal hours of business are between the hours of 7.00 am to 4.30 pm Monday to Friday.

#### VARIATIONS

The Company is not obliged to carry out any variation which is outside the scope of the Works. Any variation that the Company does carry out shall be subject to these Conditions and shall be charged to and paid for by the Client at an agreed rate or failing agreement at the rate determined by the Company.

The Client acknowledges that Boral Construction Materials Group Limited (ABN 15 000 028 080) has been appointed as agent for the purpose of invoicing and receiving revenue on the Company's behalf. The Client agrees to pay the amount shown on invoices issued by Boral Construction Materials Group Limited. Invoices will be issued monthly, and at completion of the Works.

#### TERMS OF PAYMENT 16.

The Client must pay invoices in full, without any deduction or set off, within 30 days of the date on the invoice

#### 17. TAX

- The prices quoted herein do not include any statutory or Government charges. Should any such charges or any other revenue tax become applicable to the materials the subject of this quotation such tax or charge as the case may be shall be charged to and paid for by the Client in addition to the price otherwise payable under this
- quotation.

  Notwithstanding anything else in these Conditions, if the Company has any liability to pay the Goods and Services

  Tax ("GST") on any materials and/or services supplied herein to the Client, the Client shall pay to the Company
  the amount of such GST at the same time as amounts otherwise payable to the Company.
  If the introduction of a regime relating to the emission, removal, mitigation, reduction, avoidance or sequestration
  of greenhouse gases ("Carbon Scheme") results in any additional financial burden to the Company arising from
  the manufacture or supply of the Goods 8 Work, the Company may increase Rates to recover the reasonable net costs incurred arising from such Carbon Scheme

#### PAVEMENT AND SUB-SURFACE ACCEPTABILITY

This quotation is provided on the basis that the Pavement and Sub-surface have been prepared to the satisfaction of the Client and to a standard appropriate for the Works. The Client warrants that the Pavement and Sub-surface comply in all respects with all relevant contractual, regulatory, and other applicable specifications and will allow the normal and reasonable use of the Company's road surfacing equipment and will have the surface grading and texture characteristics which are suitable for the Works. The Company is under no obligation to inspect or test the Pavement or Sub-surface to ascertain whether it meets the above requirements and may proceed with the Work assuming that the Pavement and Sub-surface meet all such requirements. In the event that the Pavement or Sub-surface is not complete at the time the Company intends to conduct the Works or for any reason is not available, then the Client shall be responsible for all related Loss. If the Pavement or Sub-surface or any part of either fails to meet the above requirements or is in any other uncuitable

- Insulation.

  The Company (without prejudice to any other rights it may have against the Client) may at its option terminate this agreement at any time after it becomes aware of such failure, whether it has commenced the Works or not and all costs and expenses incurred by the Company to the date of termination shall be borne by the Client the Company will not be liable to the Client for any Loss arising from failing to commence or complete the Works; if the Company completes the Works and due to the failure of the Pavement or Sub-surface to meet the above requirements, or due to any variation uses more material than envisaged in this quotation, the Client shall pay for
- such extra material at the Rates:
- such extra material at the Rates; if, at the request of the Client, the Company agrees to perform any additional works to alter or repair the Pavement or Sub-surface, to the extent permitted by law, such works will be carried out by the Company without fability to the Client for either the suitability or acceptability of the Pavement or Subsurface, the additional works performed, or otherwise with respect to the atterations or repairs to the Pavement and Sub-surface and the Client hereby indemnifies the Company against any Loss that may arise out of or in connection with such additional works

#### FORCE MAJEURE

The Company shall not be liable in any way for any delay in the performance of Works where such delay occurs by The Company shall not be lable in any way for any delay in the performance of Works where such delay occurs by reason of any cause whatsoever beyond the reasonable control of the Company, including without fing the generality thereof, restrictions of Government or other statutory authorities, wars, fires, epidemics, failure or fluctuation in any electrical power supply, storm, flood, earthquake, accident, labour dispute, materials or labour shortage, the change or introduction of any law or regulation or an act or omission of any supplier or other third party or any failure of any equipment owned or operated by them.

#### MAINTENANCE

making terrestrice.

This quotation does not cover any maintenance after completion of the Works. The Client acknowledges that the Works will be paid for in full and no provision has been made for the retention of any monies by the Client unless otherwise agreed to by the Company in writing

#### INFORMATION 21.

- (a) The Client acknow
  - nt acknowledges and agrees that: the Client must provide all relevant information (including all specifications relating to the Works, details relating to the Site, and other matters that may affect the Company's ability to complete the Works) to the Company to enable the Company to perform the Works; and the Company in giving this quotation has relied upon the accuracy and completeness of such

nd the Client hereby warrants to the Company the accuracy and completeness of all information supplied

- (b) If the Company has provided the Client with any information (including any design services or other advice) in connection with the Works, the Client acknowledges that it has formed its own opinion as to the correctness or otherwise of the information and has not and will not rely on the Company in respect of such information.
- All Intellectual Property of the Company, including any developed during the course of performing the Work, shall remain the sole property of the Company and no license, right or other interest of any kind in respect of such Intellectual Property is granted, created or transferred to the Client.

#### RISK

Upon delivery of any materials the subject of this quotation to the Site or any temporary stockpiles, all risk in relation to the materials shall pass to the Client. Property in the materials shall not pass to the Client until the Company has been paid in full for the Work. Where materials are sold ex-bin, risk passes to the Client when the material is loaded on the Client's vehicle.

#### 23. GENERAL

(Severance) Any provision of these Conditions which is unenforceable or partly unenforceable is, where possible, to be (Nativer) A right may not be entired as a failure to exercise, or delay in exercising, the right) operates as a waiver of the productions enforceable, and if it can not be read down, severed to the extent necessary to make these Conditions enforceable, unless this would materially change the intended effect of these Conditions. (Waiver) A right may only be waived in writing, signed by the party giving the waiver, and no other conduct of a party (including a failure to exercise, or delay in exercising, the right) operates as a waiver of the right or otherwise prevents the exercise of the right.

(No Implied warranties) To the maximum extent permitted by law, all terms, conditions or warranties that would be installed left. These Conditions will have a television of the party including the conditions.

implied into these Conditions by law or statute (including those relating to quality or fitness for purpose). (Insolvency) If the Client is or becomes or is presumed to be insolvent (including where any steps are taken by a mortgagee to enter into possession of the Client's assets, or to have a receiver, administrator or liquidator appointed in

mortgagee to enter into possession of the Client's assets, or to have a receiver, administrator or liquidator appointed in respect of the Client, or to have the Cleint declared bankrupt, or enter into any scheme of arrangement), the Company may immediately terminate its engagement under these Conditions. (Governing law) These Conditions are governed by the laws of the State or Territory in which the Work is performed. If Work is performed outside Justralia, the Conditions are governed by the laws of Queensland. The parties submit to the non-exclusive jurisdiction of the courts of that State or Territory and any courts which may hear appeals from those

(Insurance) The Client must take out and maintain those policies of insurance that would be held by a reasonably prudent customer in the position of the Client.

(No Adverse Interpretation) These Conditions are not to be interpreted against the interests of a party merely because that party proposed this document or some provision in it or because that party relies on a provision of these Conditions

Issue: April 2012



From: Rick Lewis

Sent: Wednesday, 19 July 2017 10:09 AM

**To:** Sammie Doyle

**Subject:** FW: Shellcot st Possible insurance Claim

From: Rick Lewis

Sent: Thursday, 6 April 2017 7:25 AM

**To:** Julie Gillane

Subject: Shellcot st Possible insurance Claim

G'day Julie, It is very normal industry practice to prep the pavement for seal and leave it the required amount below kerb lip. Construction signs such as-Road work ahead, Workmen sign, 40 speed sign, Rough surface sign, Etc. remain in place at each end of the job to make it clear that it is still a construction site. Inclement weather has made aght aght to Information and the Released under Right to Information and the Release and Information and Informati the time interval between preparation and seal longer than normal. Although this time delay is regrettable it is unavoidable.





# INFRASTRUCTURE SERVICES

# PROJECT PLAN

PROJECT: Shellcott Street, Toogoom

1

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# **EMERGENCY CONTACT NUMBERS**

## FOR POLICE, FIRE OR AMBULANCE, DIAL 000

Jackie Curtis	Senior Safety Advisor	
Peter Cherritt	WH & S Advisor	
Anita Dale	WH & S Officer	
Worksafe Qld		200
Poisons Information Centre		POL
Police Communications	Maryborough	
Dept of Environment & Heritage Protection	Report injured, sick or orphaned wildlife	
	Wildlife incidents	-
	Pollution reporting incl fish deaths	
Dial Before You Dig		
Wide Bay Water	Water or Sewer Emergencies	-
APA Group	DBYD info	
APA Group	Gas Emergencies (24hrs)	
Telstra	Damage to Telstra Property	
Istra	DBYD info	
Ergon	24hrs Emergency Contact	
Main Roads	Issues with state-controlled roads	

## FCRC PROJECT CONTACTS (delete those not applicable)

Ian Munro	Exec Manager – Northern Region	
John Radford	Works Coordinator (North)	
Craig Bottcher	Executive Engineer - Design	

\*\*\*All injuries and incidents must be reported to the Site Supervisor and the Council Work Health and Safety Advisor\*\*\*

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#### **CONTENTS**

Location Scope of Works  Details		Item	Page
Details  Design  Objectives  Quality Management  Construction Safety  Traffic Management  Program of Works  Organisational Chart  Environmental Management  Construction Procedures, Inspection & Test Plans & Field Lot ID  Aus-Spec		Location	
Design		Scope of Works	
Objectives  Quality Management  Construction Safety  Traffic Management  Program of Works  Organisational Chart  Environmental Management  Construction Procedures, Inspection & Test Plans & Field Lot ID  Aus-Spec		Details	
Quality Management  Construction Safety  Traffic Management  Program of Works  Organisational Chart  Environmental Management  Construction Procedures, Inspection & Test Plans & Field Lot ID  Aus-Spec		Design	
Construction Safety		Objectives	
Construction Safety		Quality Management	
Traffic Management  Program of Works  Organisational Chart  Environmental Management  Construction Procedures, Inspection & Test Plans & Field Lot ID  Aus-Spec		Construction Safety	• • • • • • •
Program of Works  Organisational Chart  Environmental Management  Construction Procedures, Inspection & Test Plans & Field Lot ID  Aus-Spec		Traffic Management	
Organisational Chart			
Environmental Management  Construction Procedures, Inspection & Test Plans & Field Lot ID  Aus-Spec		Organisational Chart	
Construction Procedures, Inspection & Test Plans & Field Lot ID  Aus-Spec	-	Environmental Management	
Department of Transport & Main Roads		Aus-Spec	
		Department of Transport & Main Roads	

#### **Attachments**

- A. Project Planning Form
- B. Project Handover Form including Bill of Quantities. See separately bound Drawings.
- C. Construction Safety Plan including Safe Work Method Statements and Dial Before You Dig's.
- D. Traffic Management Plan including Site Signage Record Sheet
- E. Environmental Management Plan
- F. Site Record
- G. Site Instruction Form
- H. Non-Conformance Report
- I. Non-Conformance Register
- J. Debrief / Post Contract Report

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#### **LOCATION**

The Project is located at Shellcott Street, Toogoom

#### **SCOPE OF WORKS**

Works will include pavement widening, road sealing and associated drainage works.

Electronic files for this project can be found at:

FCRC / ROADS / DESIGN 2016/17 - Shellcott Street - F100368(P1)

FCRC / ROADS / TENDERS/QUOTES / 2016/17 - Shellcott Street - F100371(P1) - N/A

FCRC / ROADS / CONSTRUCTION / 2016/17 - Shellcott Street - F100369(P1)

FCRC / ROADS / FINANCIAL / 2016/17 - Shellcott Street - F100369(P1)

FCRC / ROADS / CONTRACT MANAGEMENT/ 2016/17 - Shellcott Street - F100367(P1)

FCRC / ROADS / PLANNING / 2016/17 - Shellcott Street - F100370(P1)

This Project Plan encompasses the issues associated with quality, safety, environment and traffic management for this project.

The purpose of this Project Plan is to provide guidance for the project construction crew regarding the issues noted above and to provide the Principal with an assurance that the activities undertaken for the duration of the project shall be monitored.

#### **DESIGN DOCUMENTATION**

	By	/ Infrastructure Delivery	By Design Office
1. Project Planning Form	3,0		
2. Project Handover Form			
3. Bill of Quantities	76/		
4. Drawings & Specifications	, 100		

Refer to Attachments A & B

#### **OBJECTIVES**

Objectives for this project are

- Provision of a high quality product
- Completion within budgetary and time constraints to an acceptable standard
- Maintain applicable environmental standards
- Promote high safety standards

#### **QUALITY**

A Project Register is kept which contains key information on the lifecycle of the Project (see below Table for detail) and is stored in Fraser Coast Regional Council's eDOCS Information Management System at:

#### Northern Region

FCRC / ROADS / PROCEDURES & GUIDELINES / CURRENT - Infrastructure Delivery Project Register / Checklist - F002227(P1) DOCS # 837351

#### Southern Region

FCRC / ROADS / PROCEDURES & GUIDELINES / CURRENT -Project Register / Checklist Works & Services - F002227(P1) DOCS # 2235283

The following forms will also record project details and can be found as Attachments to the Project Plan.

- Site Record Forms shall be completed on a daily basis and kept within the Project Plan.
- Site Instruction Forms are to be used for issuing instructions to Contractors and subcontractors as required.
- Non-Conformance Report shall be completed on an as-required basis
- All Non-Conformance reports are to be registered in the Non-Conformance Register and followed up by the Project Supervisor / Works Coordinator.
- Project Debrief / Post Contract Report is to be undertaken with the project team members and all feedback recorded in the relevant Form.

Details contained within the Project Register:

- Contracts Major
- Contracts Minor
- Internal Works

Contracts Major	Contracts Minor	Internal Works
- Contract No	- Project Name	- Job No
- Contract Name	- Project Type	- Name
- File	- Job No	- Locality
- Project Coordinator	- Notes	- Project Manager/ Works
- Superintendent	- File	Coordinator
- Folder Created	- Project Manager	- Notes
- Tender Doc Prepared	- Hard Copy File Created	- Construction Safety Plan
- Advertising Booked	- Invitation Documents	- DBYD
- Advertising Paid	(tender)	- Budget
- Added to Council Website	- No. of Invitations Sent	- Estimate of Cost
- Tender Opening Booked	(#)	- Cost of Contractor Works
- Tender Opening Invitation Sent	- Closing Date (DATE)	(ex GST)
- Tender Evaluation	- Crew/ Contractor	- Q Leave (date)
Report to Council	- Project \$\$ (ex GST)	- Final Signed Design
Contractor	- Order No	Plans
- Contract Price	- Minor Works Contract	- BoQ
- Approved at Council Meeting	- Acceptance (DOCS)	- Anticipated Start Date
- Job No	- Unsuccessful (DOCS)	- Length of Works/
- Order No	- Qleave	completion date
- Q Leave Processed	- Contractor Signed (DATE)	- COMPLETED
- Letter of Acceptance	- Principal Signed (DATE)	- Final Cost (excl GST)
- Unsuccessful Letters	- Delivered to Contractor	- As Cons
- Contract Assembled	(DATE)	
- Contractor Signed	- Prestart Meeting (DOCS)	
- Principal Signed	- CLAIMS (DOCS)	
- Delivered to Contractor	- Bank G'tee/ Retention	
- Claim Set Up (DOCS #)	- Certificate of Practical	
- Bank Guarantee Received &	Completion (DOCS)	
Checked	- Q Leave Review	
- Prestart Meeting	- As Cons	
- As Cons Received	- Diary Reminder Set for Final	
- Certificate of Practical Completion	Certificate	
Diary Reminder Set for Final	- Qleave paid on final contract	
Certificate	sum	
- 50% of Retention Released	- Final Certificate (DOCS)	
- Q Leave Review	- Remainder of Retention	
- Tender File to Records	Released	
- Final Certificate	- Project File to Archive Shed	
- Remainder of Retention Released		
<ul> <li>Project File to Archive Shed</li> </ul>		

#### **OUALITY PLAN POLICY STATEMENT**



#### **QUALITY STATEMENT**

Fraser Coast Regional Council is committed to the provision of products and services which meet the quality expectations of our customers in an environment reflecting the importance of the safety, health and wellbeing of its employees and the community.

To achieve this outcome, documented management and operational systems will be implemented and continually improved through staff input and monitoring, ensuring a c. Released under Right to Inform more comprehensive understanding, and enabling Council to continually measure and improve its performance.

QUALITY MANUAL FCRC-QM 15 06 13 15-06-14 Page 1 of 19 I SCONTROLLED ONCE PRINTED

#### CONSTRUCTION SAFETY



COUNCIL POLICY

# **WORK HEALTH AND SAFETY**

### POLICY STATEMENT

The Fraser Coast Regional Council is committed to providing a safe and healthy working environment for our workers and visitors to the workplace. Adopting and promoting the provisions of the Work Health and Safety Act 2011 and its associated Regulation, Codes and Standards, together with significant importance placed in the areas of hazard / risk management and injury prevention strategies, will achieve our WH&S Objectives.

Our primary WH&S objective is to eliminate or reduce risk by developing proactive strategies and adopting a risk management approach to WH&S in order to provide an injury/illness free workplace.

We understand that creating and maintaining a safe and healthy working environment is a major part of our overall responsibilities, and that all employees with management or supervisory responsibilities are accountable for the health and safety of workers and visitors in their respective work areas.

In conjunction with this policy, individual Safe Work Procedures, guidelines and standards will be prepared in consultation with relevant workers and issued.

We expect all workers, and visitors to our workplaces to follow safe work practices as prescribed under the legislation and in our Policies and Safe Work Procedures, and that they make every effort to reduce the risk of injury to themselves and others.

We will provide adequate resources to manage and maintain health and safety together with regular training on work health and safety, and expect our workers to attend.

Work Health and Safety is important and we all have specific duties to ensure that we have a safe and healthy working environment and we encourage you to actively participate so that we may achieve this goal.

SIGNED BY LISA DESMOND

CHIEF EXECUTIVE OFFICER

June 2013

1/6/2014 DATE FOR REVISION Revision No 1/13

Refer to Attachment C for a copy of the Construction Safety Plan which includes:

- Project Risks and Methods of Control
- Responsibilities
- Contractor / Sub Contractor Register
- Site Inspection Checklist
- **Emergency and Evacuation Information**
- Hazardous Chemical (Substance) / Dangerous Goods Register
- Register of On-Site Employees / Contractors with First Aid Training
- Risk Assessment Calculator
- .ocontract Addition intermediate Right to Internet Right to Intermediate Right to Internet Right to Intermediate Right to Internet Right to Intern Workplace Specific Safety Induction Form (for Workers / Contractors / Subcontractors /

#### **TRAFFIC MANAGEMENT PLAN**

Details regarding the management of vehicle and pedestrian movements and signage.

#### Example:

It is proposed that the traffic shall be managed by traffic controllers, detours and temporary road closures.

The works will be carried out with one-way traffic flow westbound between Bideford Street and Denmans Camp Road.

Traffic wishing to access Boundary Road shall be detoured via Colyton Street, Tavistock Street, and Bideford Street.

At crucial stages of the works Tavistock Street and Bideford Street may have short-term closures. Access shall be given to residences and businesses in Boundary Road and Raward Road.

Pedestrians and Motorists shall be urged to consider allowing additional travel time or alternative routes to avoid delays.

A Traffic Management Plan (TMP) has been developed by John Radford which includes the following forms

- Pedestrian Management Plan

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- Site Signage Record Sheet

The Site Signage Record Sheet is to be filled out by the On-Site Supervisor on a daily basis.

See Attachment D for a full copy of the TMP and Site Signage Record Sheets.

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# PROGRAM OF WORKS

Description	October 2016	October 2016	October 2016		
Traffic Management Set up	*******	******	*****	**********	**********
Set out	****				
Clearing	****	******			
Drainage	) <u> </u>	*******			
Earthworks		******	******	**********	
Pavement		****	******	*****	
Seal		وناا		****	
Linemarking			×		****

Attach additional information as necessary

ation Act. 2009 Any amendments to the Program of works should be discussed with the Project Manager and updated in the Project Plan.

15

Position Descriptions detail the roles and responsibilities of each position within Council. These are held with the Human Resources Department.

Position Descriptions detail the roles and responsibilities of each position within Council. These are held with the Human Resources Department.

# CONSTRUCTION PROCEDURES, INSPECTION AND TEST PLANS AND FIELD LOT IDENTIFICATION

Construction procedures/specification for the project can be based on Department of Main Road standards and/or Auspec standards. Other standards can be used as deemed necessary and applicable to the project. The Project Plan shall make reference to the standards used for construction works. The Project Supervisor is responsible to identify and include in the Project Plan all the ITPs required for the work activity. Additional inspections and testing can be undertaken if the Project Supervisor considers it necessary to ensure consistency in the quality of the works performed. A full copy of the Specifications can be obtained from the office of the Project Manager.

The following specifications / procedures are relevant for this project:

<DELETE NOT APPLICABLE>

CRC Released under Right to Informatic REFER TO DOCS # 2381576 FOR A FULL LIST / TEMPLATE OF THE ITP'S FOR

# **AUS-SPEC SPECIFICATIONS**

Series	Spec No	Specification Title	Relevant to Project
QS	QS QC	QUALITY SYSTEM Quality System Requirements Quality Control Requirements	
100	101	GENERAL REQUIREMENTS General	
200	201 211 212 213	ROAD AND EARTHWORKS Control of Traffic Control of Erosion and Sedimentation Clearing and Grubbing Earthworks	xx1200
	220 221 222 223 224 229	STORMWATER DRAINAGE Stormwater Drainage - General Pipe Drainage (RC, FRC, Steel, uPVC) Precast Box Culverts Drainage Structures Open Drains, including Kerb & Gutter (Channel) Kerb & Gutter (Channel) Replacement	
	230 231 232 233	SUB-SURFACE DRAINAGE Sub-surface Drainage – General Subsoil and Foundation Drains Pavement Drains Drainage Mats	
	241 242 243 244 245 246 247 248 249 250 251 254 255	PAVEMENTS Stabilisation Flexible Pavements Bituminous Cold Mix Sprayed Bituminous Surfacing Asphaltic Concrete Rolled Concrete Subbase Mass Concrete Subbase Plain or Reinforced Concrete Base Steel Fibre Reinforced Concrete Base Continuously Reinforced Concrete Base Cold Milling of Asphalt & Base Course Segmental Paving Bituminous Microsurfacing	
₹ <sub>CX</sub>	261 262 263 264 265 267	ROAD FURNISHINGS Pavement Markings Signposting Guide Posts Guardfence Boundary Fencing Concrete Safety Barrier	
	271 273 274 276	MISCELLANEOUS Minor Concrete Works Landscaping Masonry Walls Crib Retaining Walls	

Series	Spec No	Specification Title	Relevant to Project
300	303 305 306	SERVICES Service Conduits Trenchless Conduit Installation Road Openings and Restorations	

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### MAXIMUM LOT SIZES AND MINIMUM TEST FREQUENCIES

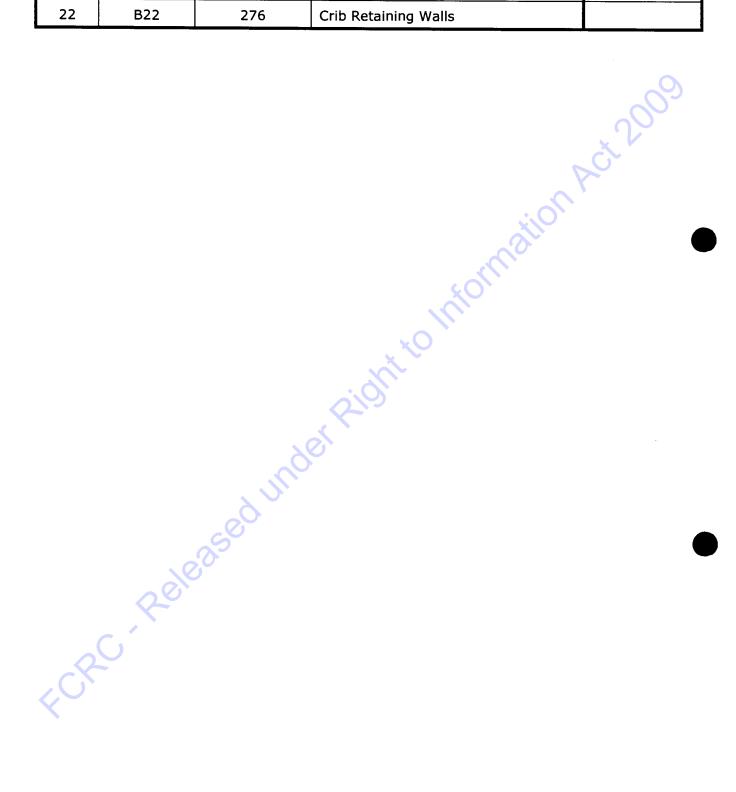
### **GENERAL**

- 1. The maximum lot sizes and minimum test frequencies are separately specified for all major activities covered by the Technical Specifications as listed hereunder.
- 2. The requirements applicable to this Contract are identified with an asterisk indicating that only these details are attached in this Annexure.
- 3. Where material/product quality certification can be obtained from the supplier, tests listed per contract/separable part need not be repeated.
- 4. Where no Queensland DMR Test Methods (Q) are available, Australian Standards or NSW RTA Test Methods (T) are specified.

**Contents of Annexure QC-B** 

Item	Sub- Annexure	Reference Specification	Sub-Annexure Heading	Relevant to this Project
1	B1	213	Earthworks	
2	B2	220 221 222 223 224 229	Stormwater Drainage - Pipe Drainage, Precast Box Culverts, Drainage Structures, Open Drains including Kerb and Gutter, Kerb and Gutter Replacement	
3	В3	230 231 232 233	Subsurface Drainage - Subsoil and Foundation Drains, Pavement Drains, Drainage Mats	
4	B4	241	Stabilisation	
5	B5	242	Flexible Pavements	
6	В6	243	Bituminous Cold Mix	
7	В7	244	Sprayed Bituminous Surfacing	
8	B8	245	Asphaltic Concrete	
9	B9	246	Rolled Concrete Subbase	
10	B10	247	Mass Concrete Subbase	
11	B11	248	Plain or Reinforced Concrete Base	
12	B12	249	Steel Fibre Reinforced Concrete Base	
13	B13	250	Continuously Reinforced Concrete Base	
14	B14	246, 247, 248 249, 250, 271	Ready Mixed Concrete Production and Supply	
15	B15	254	Segmental Paving	
16	B16	255	Bituminous Microsurfacing	
17	B17	261	Pavement Markings	
18	B18	262	Signposting	
19	B19	271	Minor Concrete Works	

Item	Sub- Annexure	Reference Specification	Sub-Annexure Heading	Relevant to this Project
20	B20	273	Landscaping	
21	B21	274	Masonry Walls	
22	B22	276	Crib Retaining Walls	



Sub-Annexure B1	EARTHWORKS (Specification 213)				
ACTIVITY	KEY QUALITY VERIFICATION REQUIREMENTS	MAXIMUM LOT SIZE	MINIMUM TEST FREQUENCY	Теѕт	Quality Verified By
Stripping Topsoil	Surface Levels	<del>10,000m²</del>	1 Cross Section per 25m	Survey	ı
Excavation	Geometry	10,000m²	1 Cross Section per 25 20m	Survey	
Floor of Cuttings	Material Quality - CBR	5,000m²	1 per <del>1,000</del> 2,000m <sup>2</sup> *	AS 1289.6.1.1	
	Compaction	10,000m <sup>2</sup>	1 per 500m <sup>2</sup>	AS 1289.5.4.1	
Blasting	Ground Vibration/Noise Control	1 day's blasting	Continuous monitoring		
Foundation for Embankments	Compaction	5,000m <sup>2</sup>	1 per 500m²	AS 1289.5.4.1	
Embankments - General	Geometry	One laver	1 Cross Section per 20 35m	Survey	
5		10,000m <sup>2</sup>			
	Material Quality - CBR	One layer 5,000m²	1 per <del>800</del> -3,000 m³	AS 1289.6.1.1	
	Compaction/Moisture Content	One layer 5,000m²	1 per 250m³	AS 1289.5.1.1 AS 1289.5.4.1	
Embankmente		Ġ.		AS 1289.5.7.1	
- Select Zone	Geometry	One layer 10,000m²	1 Cross Section per 20 <del>25</del> m	Survey	
	Material Quality - Particle Size Distribution	10.000m²	Ther 1.000m <sup>3</sup> *		
			1 per <del>500-</del> 1,500 m <sup>3</sup> *	AS 1289.6.1.1	
	- CBR	10,000m²			
	Compaction/Moisture Content	One layer 5,000m²	1 per 250 or 3 per lot if less*	AS 1289.5.1.1 AS 1289.5.4.1	
				AS 1289.5.7.1	
Fill Adjacent to Bridges,	Material Quality		Sil.		
Wingwalls, Retaining Walls and Culverts	- Particle Size Distribution	1 Structure	1 per 200m³ *		
	- Plasticity Index	1 Structure	1 per 200m³ *	AS 1289.3.3.1	
	Compaction/Moisture Content	1 Structure	1 per layer	AS 1289.5.1.1 AS 1289.5.4.1 AS 1289.5.7.1	

Sub-Annexure B2

STORMWATER DRAINAGE - PIPE DRAINAGE, PRECAST BOX CULVERTS, DRAINAGE STRUCTURES, OPEN DRAINS INCLUDING KERB AND GUTTER, KERB AND GUTTER REPLACEMENT

(Specifications 220, 221, 222, 223, 224, 229)

	(Specifications 220, 221, 222, 223, 224, 229)	223, 224, 229)			
ACTIVITY	KEY QUALITY VERIFICATION REQUIREMENTS	MAXIMUM LOT SIZE	MINIMUM TEST FREQUENCY	Test	Quality Verified By
	Precast Quality -		1 per type/size/		
Supply of Precast Units	Suppliers documentary evidence and certification	1 Daten	elass per batch	A STATE OF THE STA	
Siting and Excavation	Geometry	1 drainage line/structure	1 per drainage line/structure	Survey	
Excavation by Blasting	Peak Particle Velocity	1 drainage line/structure	1 per drainage line/structure	Measure	
Foundation	Compaction	1 drainage line/structure	1 per 20 lin m *	AS 1289.5.4.1	
Material surrounding-Steel Structures	Material Quality - pH/Electrical Resistivity	1 drainage line/structure	1 per material	AS 1289.4.3.1 AS 1289.4.4.1	
Bedding	Material Quality	30			
	- Particle Size Distribution	1 contract	1 per <del>200</del> 1,000 m³ *	AS 1141.11	
	Compaction/Moisture Content	1 drainage line/structure	1 per layer, per 20 lin m	AS 1289.5.4.1 AS 1289.5.7.1	
Concrete Bedding or Lining	Geometry		1 Cross Section per 25m	Survey and 3m Straight Edge	
Installation of Precast Units	Geometry	1 drainage line/structure	1 per drainage line/structure	Survey	
	Material Quality:	<del>1 contract</del>	<del>1 per 100m³</del> ∗		
	- <del>Maximum Particle Size</del>	1 contract	<del>1 per 100m³</del> ***	AS 1289.5.4.1 AS 1289.5.7.1	,
Selected Backfill	- Plasticity Index	1 drainage line/structure	1per 2 layers per <i>drainage</i> line/structure <del>50m²</del>		
	Compaction/Moisture Content		Š		
Rock Fill for Gabions/ Wire	Material Quality: -Wet Strength	+ contract	1 per contract	AS 1141.22	· · · · · · · · · · · · · · · · · · ·
Mattresses	-Wet/Dry Strength Variation	1 contract	1 per contract		ı
	Geometry	1 contract	1 Cross Section per 10 25m	Survey and 3m Straight Edge	
	Consistency - Slump	15m³	1 per load	AS 1012.3.1	
Kerb and Gutter	2) 4,7		V	AS 1012.1	
	compressive screngur (7   day)	15m³	2 per 15m³	AS 1012.8	
				AS 1012.9	

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Sub-Annexure B3	SUBSURFACE DRAINAGE - SU (Specifications 230, 231, 232, 233)	IBSOIL AND FOUNDATIO	SUBSURFACE DRAINAGE - SUBSOIL AND FOUNDATION DRAINS, PAVEMENT DRAINS, DRAINAGE MATS (Specifications 230, 231, 232, 233)	RAINAGE MATS	
ACTIVITY	KEY QUALITY VERIFICATION REQUIREMENTS	MAXIMUM LOT SIZE	MINIMUM TEST FREQUENCY	Test	Quality Verified By
Material Supply	Material Quality - Supplier's documentary evidence and certification of:	1 contract/size	1 per type/size		
	Filter Material - Grading (Type A, B, C, D) - Coefficient of Permeability	1 contract/size	1 per type		1
	- (Type B) - Grading Variation after	1 contract/size	1 per type	ASTM D2434-68 AS-1141.11	l I
	-Wet Strength (Type C, D)	1 contract/size	<del>1 per typ</del> e	AS 1141.22	ŀ
	- 10% Fines Wet/Dry - (Type C, D) Geotextile	1 contract/size	1 per type	AS 1141.22	ı
Excavation - Trench Base	Line and Grade	1 drainage line	1 per 200 lin m	Survey	
	Compaction	<del>1 drainage line</del>	1 per 200 lin m*	AS 1289.5.4.1	-
Bedding and Backfill		oil operior	roc .	AC 1280 E A 1	
- רוונפו ואמנפונמו	Collipaction		line line	1:4:5:5051 50	
- Selected Backfill - Farth Backfill	Compaction	1 drainage line 1 drainage line	1 per 200lin m* <del>1 per 200lin m*</del>	AS 1289.5.4.1 AS 1289.5.4.1	1
Drainage Mat	Geometry	<del>2000m²</del>	1 Cross Section per 25m	Survey	-
			mation Act 2003	~0°9	

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Sub-Annexure B4	STABILISATION (Specification 241)				
ACTIVITY	KEY QUALITY VERIFICATION REQUIREMENTS	MAXIMUM LOT SIZE	MINIMUM TEST FREQUENCY	Test	Quality Verified By
Material Supply	Material Quality - Supplier's documentary evidence and certification of:			(1)	
	- Cement - Quicklime × Availabla Lime (CaO	1 contract	ı per ıuut	AS3972	
	content)	1 contract	1 per 100t	AS3583.12	
	x Slaking Kate x Particle Size Dist'n - Hvdrated Lime	1 contract 1 contract	1 per 100t 1 per contract	1432 AS1141.11	
	× Available Lime (CaOH <sub>2</sub> )	1 contract	1 per 100t	AS3583.12	
	× Residue on Sieving	1 contract	1 per contract	AS3583.14	
	- Ground Blast Furnace Slag	1 contract	1 per month	AS3583.2	
	- Flyash - Blended Stabilising Agent - Water	1 contract 1 contract	1 per month 1 per month	AS3583.1	
	Chloride ion content	1 contract	1 per contract	AS3583.13	
	Sulphate ion content Undissolved solids	1 contract 1 contract	1 per contract 1 per contract	AS1289.4.2.1	
Mix Design	NATA certification - Supplier's documentary evidence and certification	1 mix	1 per mix		
Stationary Mixing Plant	Application rate of stabilising agent	1 day's production	1 per 100t		
	Compressive strength of   product	1 day's production	1 per 100t	AS1289.6.1.1	
In-Situ Spreading	Spread rate	1 layer 1,000m²	1 per lot or 1 per 500m²		
Trimming and Compaction	Geometry	1 layer 2,000m², max 1 day's placement	One cross section per 25m	Survey	
	Surface Quality	=	10 per 200m lane length *	3m Straight Edge	
	Average Layer thickness Average Width	=	1 per lot 1 per lot	Measure/Survey	
	Content	=	3 per lot	AS1289.5.8.1	

	Quality Verified By		-	ı	ı		1		ı	1	ı	t	ı		1	ı			ı			
	Test		AS 1289.3.61 Q103A	AS 1289.3.6.3	AS 1289.3.1.1 Q104A	AS 1289.3.3.1	AS 1289.3.3.1 Q105	Q113A	1114	AS 1141.14	AS 1141.22	AS 1141.22	11.71		CF F	<del>Q115</del>	Survey	Measurement & 3m Straight Edge	<del>6701</del>	Q110C AS 1289.5.2.1	AS 1289.5.4.1 AS 1289.5.8.1	Droof rolling
	MINIMUM TEST FREQUENCY		1 per 1,000t	1 per 1,000t	1 per 1,000t	1 per 1,000t	1 per 1,000t	1 per 1000t	<del>1 per 5,000t</del>	<del>1 per 1,000t</del>	1 per 5,000t	1-per-5,000t	1 per contract	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 pci 3/000t	1 per 5,000t	1 Cross Section per 15m 20m	10 per selected 200 lin.m	4 per 1,000m², minimum 10 per let	3 per 1000m²–layer or 3 per lot if less	Č	1 toot / 200 m m this list 100 m
fication 242)	MAXIMUM LOT SIZE	1 week's supply						71,	9	2	?		3					One layer 2,000m² or max 1 day's placement	One layer 5,000m²—or max 1 day's placement	One layer 2,000m² or	iliax 1 day s piaceilleilt	One layer 2,000m <sup>2</sup> or
FLEXIBLE PAVEMENTS (Specification 242)	KEY QUALITY VERIFICATION REQUIREMENTS	Material Quality - Supplier's documentary evidence and certification	- Particle Size Distribution	- Fines Particle Size Distribution Ratio	- Liquid Limit	- Plastic Limit	- Plasticity Index	California Bearing Ratio	- Maximum Dry Compressive -Strength	- Particle Shape	-Aggregate Wet Strength	- Wet/Uff Strength Variation	-Classification	-Unconfined Compressive	-Strength (Modified)	- Unconfined Compressive - Strength (Bound)	Geometry: Alignment & Level	Width & Surface Trim	Deflection Control— Benkelman Beam	Compaction/Moisture Content	/ Dily Delibity Teating	Doff pation
Sub-Annexure B5	ACTIVITY	Base and Subbase Supply																Placement				

Sub-Annexure B6	BITUMINOUS COLD MIX (Specification 243)	ecification 243)			
ACTIVITY	KEY QUALITY VERIFICATION REQUIREMENTS	MAXIMUM LOT SIZE	MINIMUM TEST FREQUENCY	Test	Quality Verified By
Materials Supply	Material Quality - Supplier's documentary evidence and certification of:	1 contract or		AS 2758.5	
	• Grading	1 mth's prod'n	1 per month	S 1141.11	
	• Wet Strength	1 contract	1 per contract or change in material	S 1141.22	
	-Wet/dry Strength	=		S 1141.15	
	Flakiness Index	=		S 1141.18	
	<ul> <li>Fractured Faces</li> <li>Fine Aggregates</li> <li>Grading</li> </ul>	" 1 contract or 1 mth's prod'n	1 per month	AS 1141.11	
	- Mineral Filler	1 contract or 1 mth's prod'n	1 per month	AS2357	
	- Class 170 or 320 Bitumen Cutback Bitumen	1 contract or 1 mth's prod'n 1 delivery / tanker	1 per month 1 per delivery tanker	AS 2008 AS 2157	
	Flux Oil and Cutter Oil	1 delivery / tanker	1 per delivery tanker	AS 3300	
Mix Design	Approval of mix and NATA documentation. Supplier's documentary evidence and certification.	1 mix per contract (less than 12 months old)	1 per mix	Approval	
	Grading	Each production lot or	1 per contract or as requested by	AS 2891.3.1	
Production Mix	Binder	1 day's production (whichever is the lesser)	Superintendent (sampling by production lot)	AS 2891.3.1	
			tion Act 201	000	

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	Теѕт	,	compliance only		<del>AS 2758.2</del> Q103A Q103D Q201B Q216			69
	MINIMUM TEST FREQUENCY	1 per tanker load 1 per tanker load	1 per tanker load	<ol> <li>per delivery</li> <li>per delivery/tanker</li> <li>per</li> <li>delivery/tanker</li> </ol>	<del>1 per 100m³</del> 2 per lot	Calculate per spray run	Calculate per spray run	Information Act 2009
ACING (Specification	MAXIMUM LOT SIZE	1 tanker load 1 tanker load	1 tanker load	1 delivery 1 delivery/ tanker 1 delivery/ tanker	4 contract 800t	1 day's operation	1 day's operation	
SPRAYED BITUMINOUS SURFACING (Specification	KEY QUALITY VERIFICATION REQUIREMENTS	Material Quality - Suppliers documentary evidence and certification of: - Class 170 Bitumen - Refinery Cutback Bitumen	- Polymer Modified Binder	<ul> <li>Bitumen Adhesion Agent</li> <li>Cutback Oils</li> <li>Aggregate Precoating Agent</li> </ul>	- Aggregate	Binder	Aggregate	
Sub-Annexure B7	Астічітч	Materials Supply				Application Rates		

	Sub-Annexure B8	ASPHALTIC CONCRETE (Specification 245)	ification 245)			
חדי מ	ACTIVITY	KEY QUALITY VERIFICATION REQUIREMENTS	MAXIMUM LOT SIZE	MINIMUM TEST FREQUENCY	Test	Quality Verifie By
0017/10 001	Materials Supply	Material Quality - Supplier's documentary evidence and certification of:				
2		- Coarse & rine Aggregates - Grading	1 wk's prod'n	1 per day	ASZ/58.5 AS1141.11	
		<ul> <li>Moisture Content</li> </ul>	1 wk's prod'n	1 per day	AS1289.2.1.1	
		<ul> <li>Wet Strength</li> </ul>	1 contract		AS1141.22	
		Wet/Dry Strength Variation	1 contract	) 1 per	AS1141.22	
		Particle Shape	1 contract	) contract	AS1141.14	
		Fractured Faces	1 contract	) or change in	AS1141.18	
		Polishing Agg Friction Value	1 contract	) material	AS1141.42	
		- Mineral Filler	1 contract or 1 month's	contract or 1 per month's	AS2357	
		- Bitumen Binder	1 refinery hatching	production 1 per tanker load	AS2008	
		- Polymer Modified Bitumen				
60		Co.C	Ó			
		<ul> <li>Viscosity on ER at 60°C</li> </ul>	1 production batch by	1 per tanker load	MBT 21	
		<ul> <li>Torsional Recovery at</li> </ul>		4	MRT 21	
		25°C			1	
		• Viscosity at 180°C		S. S	MBT 22 MBT 11	
		- Bitumen Adhesion Agent      Resistance	1 contract	1 per contract or change in	02124 B.C	
		to Stripping - Reclaimed Asphalt		material	) (2 (2112)	
		Pavement (RAP)	1 stockpile	1 per stockpile	AS1141.11	
		- Bitumen Emulsion	1 contract	1 per contract or change in material	AS1160	
	Mix Design -	Approval of mix and NATA		Č		
	Nominated Mix	Supplier's documentary evidence and certification	1 mix per contract	1 per mix		
	Production Mix		245.7 from Spec	1 per truck load	Measure AS2891.10	
			245 Asphaltic Concrete as included as sep-	luded as separate table below.	AS2891.3.3	

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AS2891.3.1	T640	Measure Survey	3m Straight Edge	AS2891.9.3 or Nuclear Density Meter							9
ne 12 hr shift's production.	1 per mix per 5000t or once per month (whichever is the most frequent)	1 per truck load 1 cross section per 25m	10 per 200m* lane length	< 50t Nil 50><100t, 1 core > 100t 1 core per 100t or part thereof 6-cores per lot 10 nuclear density tests to be at	twice the rate of core tests per lot						Information Act 2009
Additionally, max lot size one 12 hr shift's production.	1 production mix	1 day's laying per site 1 day's laying per site	1 day's laying	1 day's laying		308		عناه		×O	
Binder Content	Resistance to Stripping	Temperature Levels	Shape	Relative Compaction/Layer Thickness		Minimum Frequency of Testina	s or part	es or part	es or part	es or part	Minimum Testing Frequencies for Asphalt
		Laying and Compaction				Quantity of Asphalt in production lot	Less than 100 tonnes	101 to 300 tonnes	301 to 600 tonnes	Over 600 tonnes	Table 245.7 Minimum Testing
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Quantity of Asphalt in production lot	Minimum Frequency of Testing
Less than 100 tonnes	One per 50 tonnes or part thereof
101 to 300 tonnes	One per 100 tonnes or part thereof
301 to 600 tonnes	One per 150 tonnes or part thereof
Over 600 tonnes	One per 200 tonnes or part thereof

Table 245.7 Minimum Testing Frequencies for Asphalt Production

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Test	45 3582.1	AS 1012.3.4	AS 1012.13	AS 1012.9	AS 1012.8 AS 1012.9	AS 1289.5.8.1	Survey	3 m Straight edge
MINIMUM TEST FREQUENCY	1 nor contract	1 per day's production per mix	Lype 1 per contract per mix design	3 per contract per mix design	1 per 50 tonnes of each mix type	3 per 1000m² layer or 3 per lot if less	10 stations per 1000m <sup>2</sup> or minimum of 4 for smaller lots	10 stations per 1000m <sup>2</sup> or minimum of 4 for smaller lots
MAXIMUM LOT SIZE	to carte	roduction		Contract		1 layer 2000m <sup>2</sup> or 1 day's production	00m² or 1 day's	1 layer 2000m <sup>2</sup> or 1 day's
KEY QUALITY VERIFICATION MAXIMUM LOT SIZE REQUIREMENTS	Refer Sub-Annexure B14: Ready-Mixed Concrete Production and Supply	Consistency	(Index of Compactibility) Drying Shrinkage	Compressive Strength of Mix	Compressive Strength (7 day and/or 28 day)	Field Density	Thickness and Surface Level	Profile Factor (straight edge
ACTIVITY	Concrete Supply				Placement			

Sub-Annexure B10	PLACEMENT OF MASS CONCRETE SUB-BASE (Specification 247)	<b>XETE SUB-BASE (Specification</b>	n 247)		
ACTIVITY	KEY QUALITY VERIFICATION REQUIREMENTS	MAXIMUM LOT SIZE	MINIMUM TEST FREQUENCY	ТЕЅТ	Quality Verified By
Concrete Supply	Refer to Sub-Annexure B14: Ready-Mixed Concrete Production and Supply Concrete/Air Temperature	50m³	1 per 50m³	Measure	
	Air Content	50m³	1 per 50m³	AS1012.4 Method 2	
	Consistency - Slump	50m <sup>3</sup>	1 per load	AS1012.3.1	
	Compressive Strength (7	50m³	$1 \; pair \; per \; 50m^3$	AS1012.1 AS1021.8 AS1012.9	
	Compressive Strength (28 day)	50m³	$1 \; pair \; per \; 50m^3$	AS1012.1 AS1021.8 AS1012.9	
Placement	Thickness	50m³	5m grid on plan area	Survey and check with subgrade survey	
	Geometry	50m³	1 cross section per 15m	Survey 3m Straight Edge	
Curing	Material Quality - Supplier's documentary evidence and certification	1 contract	1 per production batch	AS 3799 AS 1160	
1cipt	Application Rate	1 day's work	1 per 1000m²	Clipton	
Sulor	Geometry	THOSE	Mustion Act Joos	Savos Control of the	

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Sub-Annexure B11	PLACEMENT OF PLAIN CONCRETE BASE	RETE BASE (Specification 248)			
ACTIVITY	KEY QUALITY VERIFICATION REQUIREMENTS	MAXIMUM LOT SIZE	MINIMUM TEST FREQUENCY	Test	Quality Verified By
Concrete Supply	Refer Sub-Annexure B14: Ready-Mixed Concrete Production and Supply				
	Concrete/Air Temperature	50m <sup>3</sup>	1 per 50m³	Measure	
	Air Content	50m³	1 per 50m³	AS1012.4 Method 2	
	Consistency - Slump	50m³	1 per load	AS1012.3.1	
	Compressive Strength (7 day)	50m³	$1  pair  per  50m^3$	AS1012.1 AS1012.8 AS1012.9	
	Compressive Strength (28 day)	50m³	1 pair per 50m³	AS1012.1 AS1012.8 AS1012.9	:
Placement	Relative Compaction - Machine Placed	50m³	1 per 50m³*	AS1012.14	
	- Hand Placed	Area between 2 consecutive const. joints or 50m³ (whichever is the lesser)	2 per lot	AS1012.14	
	Thickness	50m³	5m grid on plan area	Survey	
	Geometry	50m³	1 cross section per 15m	Survey and 3m Straight Edge	
Ride Quality	Profile Factor	1000m²	10/lane/lot	3m Straight Edge	
Surface Texture	Texture Depth	1000m²	2 per lot	Survey	
Curing	Material Quality - Supplier's documentary evidence and certification	1 contract	1 per production batch	AS3799 AS1160	
	Application Rate	1 day's work	1 per 1000m²*		
Joints	Sealant Material Quality Supplier's documentary	1 contract	1 per prod'n batch		
	Geometry	50m³	All joints	Survey	

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Sub-Annexure B12	STEEL FIBRE REINFORCED CONCRETE BA	NONCRETE BASE (Specification 249)			
Астічітч	Key Quality Verification Requirements	MAXIMUM LOT SIZE	MINIMUM TEST FREQUENCY	TEST	Quality Verified Bv
Concrete Supply	Refer Sub-Annexure B14: Ready-Mixed Concrete Production and Supply				
	Concrete/Air Temperature	A production lot	As required by Superintendent	Measure	
	Air Content	1 contract	1 per contract	AS1012.4 Method 2	
	Consistency - Slump	50m³	1 per load	AS1012.3.1	
	Compressive Strength (7 day)	50m³	1 pair per 50m³	AS1012.1 AS1012.8 AS1012.9	
	Compressive Strength (28 day)	50m <sup>3</sup>	1 pair per 50m³	AS1012.1 AS1012.8 AS1012.9	
	Drying Shrinkage	1 day's production or $150m^3$ (whichever is the lesser)	3 per lot	AS 1012.13	
Placement	Relative Compaction - Machine Placed	50m³	1 per 50m³	AS1012.14	
	- Hand Placed	Area between 2 consecutive const. joints	2 per lot	AS1012.14	
	Thickness	50m <sup>3</sup>	5m grid on plan area	Survey	
	Geometry	50m³	1 cross section per 15m	Survey 3m Straight Edge	
Ride Quality	Profile Factor	50m³	All lanes	3m Straight Edge	
Surface Texture	Texture Depth	50m³	2 per 50m³	Survey	
Curing	Material Quality - Supplier's documentary evidence and certification	1 contract	1 per production batch	AS 3799 AS 1160	
		1 day's work	1 per 1000m²		
Joints	Material Quality - Sealant Supplier's documentary evidence and certification	1 contract	1 per production batch		
	Geometry	50m³	All joints	Survey and 3m straight edge	
Steel Supply	Material Quality - Supplier's	1 Contract	1 per contract	AS 1302	

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AS 1303 AS 1304 AS 1302	AS 1303 AS 1304	ASTM A 820	
	1 per contract	1 per contract	Released under Right to Information Act 2009
	1 Contract	1 Contract	ged under Right
documentary evidence and certification	Steel Reinforcement	Steel Fibre	Releas

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į	NCY TEST	AS 1302 AS 1303 AS 1304		Measure	AS1012.4 Method 2	AS1012.3.1 AS1012.3.3	AS1012.1 AS1012.8	AS1012.1 AS1012.8 AS1012.9	AS1012.13	AS1012.14	AS1012.14	Nove N	טמו יעק			×	V
(Specification 250)	MINIMUM TEST FREQUENCY	1 per contract		As required by Superintendent	1 per contract	1 per load	1 pair per 50m³	1 pair per 50m³	3 per lot	1 per 50m <sup>3</sup>	2 per lot	5m grid on plan area		1 cross section per 15m	1 cross section per 15m All lanes	1 cross section per 15m All lanes 1 per 2000m²	1 cross section per 15m All lanes 1 per 2000m² 1 per production batch
SLY REINFORCED CONCRETE	MAXIMUM LOT SIZE	1 contract		A production lot	1 contract	50m³	50m³	50m³	1 day's production or $150m^3$ (whichever is the lesser)	50m³	Area between 2 consecutive const. joints	50m³		50m³	50m³ 50m³	50m³ 50m³ 1 day's work	50m³ 50m³ 1 day's work 1 contract
PLACEMENT OF CONTINUOUSLY REINF BASE	KEY QUALITY VERIFICATION REQUIREMENTS	Material Quality - Supplier's documentary evidence and certification	Refer Sub-Annexure B14: Ready-Mixed Concrete Production and Supply	Concrete/Air Temperature	Air Content	Consistency - Slump	Compressive Strength (7 day)	Compressive Strength (28 day)	Drying Shrinkage	Relative Compaction - Machine Placed	- Hand Placed	Thickness	Geometry		Profile Factor	Profile Factor Texture Depth	Profile Factor  Texture Depth  Material Quality - Supplier's documentary evidence and
Sub-Annexure B13	Астіліт	Steel Supply	Concrete Supply							Placement					Ride Quality	Ride Quality Surface Texture	Ride Quality Surface Texture Curing

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Survey and 3m Straight Edge	64
All joints	S. Bright HO IN VICE Sealing Boad Sealing and Prainage - 270916, Door
1 day's work	C. Reglessed rinder Sight to little bad sight
Supplier's documentary evidence and certification Geometry	C. Released under

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MEAD PITALD CONCRETE PRODUCTION	CODOC TON & SUPPLY	(Specifications 246, 247, 2	248, 249, 250, 271)	
KEY QUALITY VERIFICATION REQUIREMENTS	MAXIMUM LOT SIZE	MINIMUM TEST FREQUENCY	Test	Quality Verified
Material Quality - Supplier's documentary evidence and certification of:-				6
Cement	1 mth's prod'n 1 mth's prod'n	1 per week	AS3972	
Water	1 contract	1 per contract	AS 3583.13,	
Admixtures	1 mth's prod'n	1 per month	AS1289.4.2.1 AS 1478	
- Grading	wk's prod'n	1 ner 200m <sup>3</sup> concrete*	AS1141 11	
- Moisture Content	N/A	1 per day	A31141.11	
- Sulphate Soundness	1 contract	1 per contract	AS1141.24	
- Bulk Density	1 contract		AS 2758.1	
- Unit Mass (Particle density) - Water Absorption	1 contract	1 per contract	AS 2758.1	
- Material Finer 2mm	1 contract		AS 2/38.1	
- Deleterious Material			T 2 2/ 36:1	
(Impurities/Reactive)	1 contract	1 per contract	AS 2758.1	
Coarse Aggregates	Š	,		
- Grading	1 wk's prod'n		AS1141.11	
- Moisture Content	N/A			
- Wet Strength	1 contract		AS1141.22	
- wet/Dry strength variation	1 contract	1 per contract	AS1141.22	
- Sulphate Soundness	1 contract		AS1141.24	
- Particle Snape	1 contract	1 per contract	AS1141.14	
- Fractured Faces	1 contract	•	AS 1141.18	
- Bulk Density	1 contract	1 per contract	AS 2758.1	
- Unit Mass (Particle density)	1 contract	1 per contract	AS 2758.1	
- Water Absorption - Material Finer 75mm	1 contract	1 per contract	AS 2758.1	
- Mosk Baticles	1 contract	1 per contract	AS 2758.1	
- Weak raiticles	1 contract	1 per contract	AS 2758.1	
- Light Falticles - Delotorione Materiale	1 contract	1 per contract	AS 2758.1	
(Impurities/Reactive)	1 contract	1 per contract	AS 2758.1	·
- Iron Unsoundness	1 contract	1 per contract	AS 2758.1	
- Falling/Dusting	1 contract	1 per contract	AS 2758 1	
Unsoundness		י לכו ככונו מכר	1,96,72	
Compressive Strength Aggregate Moisture Content	1 contract mix	1 per mix per contract 1 per mix per contract	AS1012.9	
collabrelley - Signify	I contract mix	1 per mix per contract	AS1012.3.1	

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AS 1012.4 Method 2	
1 per mix per contract	A CONTRACTOR ACT AND A CONTRACTOR ACT AND A CONTRACTOR ACT AND A CONTRACTOR ACT AND A CONTRACTOR ACT AND A CONTRACTOR ACT AND A CONTRACTOR ACT AND A CONTRACTOR ACT AND A CONTRACTOR ACT AND ACT AND A CONTRACTOR ACT AND A
1 contract mix	A Pales and Index
Air Content	Shrinkage

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Sub-Annexure B15	SEGMENTAL PAVING (Specification 254)	cation 254)			
АСТІVІТУ	KEY QUALITY VERIFICATION REQUIREMENTS	MAXIMUM LOT SIZE	MINIMUM TEST FREQUENCY	Test	Quality Verified Bv
Materials Supply	Material Quality - Supplier's documentary evidence and certification of:				
	- Concrete Segmental Paving Units	1 contract	1 per contract		
	- Clay Segmental Paving Units	1 contract	1 per contract		
	- Bedding Sand Grading	1 contract	1 per contract or change in material	AS1141.11	
	- Joint Filling Sand Grading	1 contract	1 per contract or change in material	AS1141 11	
Base	Geometry	One layer 5000m², max 1 day's placement	One cross section per 25m	Survey	
	Surface Quality	96	$10 \text{ per } 200\text{m}^2 \text{ or lot}$	3m Straight Edge	
Edge Restraints	Refer 'Minor Concrete Works'	1 day's placement	1 per 10 lin m	Measure/Survey	
Laying Paver Units	Joint Width Geometry	1 day's placement 1 day's placement	All joints One cross section per 15m	Measure Survey	
	Surface Quality	1 day's placement	10 per 200m² or lot	3m Straight Edge	

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Sub-Annexure B16	BITUMINOUS MICROSURFACING (Specifi	ING (Specification 255)			Aileiro
Астічітч	KEY QUALITY VERIFICATION REQUIREMENTS	MAXIMUM LOT SIZE	MINIMUM TEST FREQUENCY	Test	Verified By
Materials Supply	Material Quality - Supplier's documentary evidence and certification of:				
	- Bitumen (prior to emulsification) - Bitumen Emulsion	1 contract	1 per contract or change in material	AS2008	NII V. U.
	Residual Binder Content (Residue from Evaporation)	1 contract	2 per bulk delivery	AS1160, App.D	
	Degradation Factor	1 contract	1 per contract or 6 month period	AS1141.25	
	Los Angeles Value Aggregate Wet Strength	1 contract 1 contract	: :	AS1141.23 AS1141.22	
	Wet/Dry Strength Variation	1 contract	r	AS1141.22	
	Polished Aggregate	1 contract	z.	AS1141.42	
	Sand Equivalent	1 contract	: :	AS1289.3.7.1	
	- Milleral Filler - Combined Aggregate Grading	1 contract	s	AS1141.11, AS1141.11, AS1141.12	
Mix Design -	Approval of mix and NATA	C			
Nominated Mix	certification - Supplier's documentary evidence and certification	1 contract	1 per mix		
	Wear Loss	1 contract	1 per mix	ISSA TB 100	
Mix Properties	Traffic Time Adhesion	1 contract 1 contract	1 per mix 1 per mix	ISSA TB 139 ISSA TB 114 or	
				ISSA TB 144	
Production Mix	Grading Residual Binder Content	1 day's prod'n or 50m³ (whichever is the lesser)	2 per 50m³* 2 per 50m³*	AS2891.3.1 AS2891.3.1	
Laying	Levels	1 layer, max 200m³	1 cross section per 15m	Survey	
	Surface Quality	1 layer, max 200m³	10 per 100m* lane length	3m Straight Edge	
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Sub-Annexure B17	PAVEMENT MARKINGS (Specification 261	ification 261)			
Астічіту	KEY QUALITY VERIFICATION REQUIREMENTS	MAXIMUM LOT SIZE	MINIMUM TEST FREQUENCY	Test	Quality Verified By
Materials Supply	Material Quality - Supplier's documentary evidence and certification of:				
	- Paint	1 contract	1 per contract or change in material		
	- Glass Beads	1 contract	=		
	- Thermoplastic Material	1 contract	F =		
	- Raised Pavement Markers	1 contract			
Paint Application	Wet Film Thickness	1 contract	1 per site visit or change in pressure settings	AS1580.107.3	
	Application Rate of Glass Beads	1 contract	1 per site visit or change in pressure settings	Annexure 261A	
Thermoplastic Application	Cold Film Thickness	1 contract	1 per site visit or change in pressure settings	Measure by micrometer	
	Application Rate of Glass Beads	1 contract	1 per site visit or change in pressure settings	Annexure 261A	

	Size MINIMUM TEST FREQUENCY TEST Verified By		1 per contract, or change in material					E		
	MAXIMUM LOT SIZE		1 contract	1 contract	1 contract	1 contract	1 contract	1 contract	- college	
SIGNPOSTING (Specification 262)	KEY QUALITY VERIFICATION REQUIREMENTS	Material Quality - Supplier's documentary evidence and certification of:	- Sign Blanks	- Aluminium Extrusion Backing	- Retro-reflective Material	- Non-reflective Paint	- Non-reflective Sheet Material	- Steel Sign Support	Structures	
Sub-Annexure B18	ACTIVITY	Materials Supply								

		(

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Sub-Annexure B19	MINOR CONCRETE WORKS (Specification 271)	Specification 271)			
Астіліту	KEY QUALITY VERIFICATION REQUIREMENTS	MAXIMUM LOT SIZE	MINIMUM TEST FREQUENCY	Test	Quality Verified Bv
	Compaction	<del>1000 lin m or 1000m²</del>	1 per 200 lin m or 200m <sup>2</sup>	AS 1289.5.4.1	-
Gravel Subbase Construction	Compaction	1 day's placement	1 per 100 lin m or 100m²	AS 1289.5.4.1	
	Subbase Geometry	1 day's placement	<del>1 per 25 lin m</del>	3m Straight Edge	ı
Steel Supply	Material Quality Suppliers documentary evidence and certification	1 delivery	1 per production batch		
Concrete Supply	Refer Sub-Annexure B14: Ready-Mixed Concrete Production and Supply	6			
	Consistency - Slump	15m³	1 per load	AS 1012.3.1	
	Compressive Strength ( <del>7 and</del> 28 day)	15m³	2 <del>pairs</del> per 15m³	AS 1012.1 AS 1012.8 AS 1012.9	
Concrete Placement	Finished Levels	1 1 1 2 3		Survey and	
		13111	t cross section per 15m	3m Straight Edge	
	Material Quality				
	-Maximum particle size	1 contract/ material type	1-per-200m² er-lot		
	- Plasticity Index	1 contract/ material type	<del>1 per 200m³</del> or lot	AS1289.3.3.4	ı
	Compaction	1- day's work or max 200m²	1 per 200m² or lot	AS 1289.5.4.1	ı
Sprayed Concrete	Test Panels and Cores	1-contract	3 test panels and 4 cores per mix design	AS1012.4, AS1012.9 AS1012.14	-
	Compressive Strength Cores	<del>15m³</del>	2 per 15m³	AS1012.4, AS1012.9 AS1012.14	ı
	Curing Material Quality— Supplier's documentary evidence and certification	1 contract	1 per production batch		

Sub-Annexure B20	LANDSCAPING (Specification 273)				
Астічіт	KEY QUALITY VERIFICATION REQUIREMENTS	MAXIMUM LOT SIZE	MINIMUM TEST FREQUENCY	ТЕЅТ	Quality Verified By
Seed	Certification of Authenticity for the prescribed Mix	1 contract	Certification for each production batch delivered		
Imported Topsoil	Material Quality	2 000	; ;	AS 4419	
	Hd -		1 per 500m <sup>3</sup> *		
	- Organic Content	10,000m² 10,000m²	1 per 500m <sup>3</sup> *		
Mulch for Planting	Material Quality		1 Contract	AS 4454	
Sub-Annexure B21	MASONRY WALLS (Specification 274)	00			
ACTIVITY	KEY QUALITY VERIFICATION REQUIREMENTS	MAXIMUM LOT SIZE	MINIMUM TEST FREQUENCY	Test	Quality Verified By
Alignment Footing	Set Out Concrete Slump	Contract	25m sections 1 per load	Survey AS 1012.3.1	
	Concrete Strength	Contract	1 per contract or 100m³ (whichever is the lesser)	AS 1012.9	
Concrete Grout	Strength	Contract	As required by Superintendent	AS 1012.9	
Backfilling	Drainage Layer Grading	Contract	1 per contract	AS 1141.11	
Foundations and Backfill	Compaction	Contract or 200 lineal metres (whichever is the lesser)	3 per 200 lineal metres	AS 1289.5.4.1	
			on Pct So	600	

Sub-Annexure B22	CRIB RETAINING WALLS (Specification 276)	pecification 276)			
	Key Quality Verification Requirements	MAXIMUM LOT SIZE	MINIMUM TEST FREQUENCY	Test	Quality Verified By
	Set Out Concrete Slump	Contract Contract	25m sections 1 per load	Survey AS 1012.3.1	
	Concrete Strength	Contract	<ul> <li>1 per contract or 100m³ (whichever is the lesser)</li> </ul>	AS 1012.9	
	Quality and Plasticity Drainage Layer Grading	Contract Contract	1 per contract 1 per contract	AS 1289.3.3.1 AS 1141.11	
Foundations and Backfill	Compaction	Contract or 200 lineal metres (whichever is the lesser)	3 per 200 lineal metres	AS 1289.5.4.1	
* Note: or part thereof, per lot. INSERT REGISTER OF HOLD	* Note: or part thereof, per lot. INSERT REGISTER OF HOLD POINTS	inder Right to Inn	der Right to Information Act. 2009	209	

# INSERT REGISTER OF HOLD POINTS

# **DEPARTMENT OF TRANSPORT AND MAIN ROADS**

### Volume 1: MRS01-MRS15

Number	Title	Relevant to Project
MRS01	Introduction (to Specifications and Technical Standards) (06/13)	· · · · · · · · · · · · · · · · · · ·
MRS02	Provision for Traffic (10/10)	
MRS03	Drainage, Retaining Structures and Protective Treatments (10/10)	20)
MRS04	General Earthworks (01/13)	0
MRS05	Unbound Pavements (04/11)	
MRS06	Reinforced Soil Structures (08/12)	
MRS07A	Insitu Stabilised Subgrades using Quicklime or Hydrated Lime (04/11)	
MRS07B	Insitu Stabilised Pavements using Cement or Cementitious Blends (01/13)	
MRS07C	Insitu Stabilised Pavements using Foamed Bitumen (10/10)	
MRS08	Plant-Mixed Stabilised Pavements using Cement or Cementitious Blends (04/12)	
MRS11	Sprayed Bituminous Surfacing (Excluding Emulsion) (10/10)	
MRS12	Sprayed Bituminous Emulsion Surfacing (06/09)	
MRS13	Bituminous Slurry Surfacing (06/09)	
MRS14	Road Furniture (06/09)	
MRS14A	Road Furniture (Steel Work) (04/11)	1,
MRS15	Noise Fences (06/10)	

### Volume 2: MRS16-MRS57

Number	Title	Relevant to Project
MRS16	General Requirements Landscape and Revegetation Works (04/12)	
MRS16A	Vegetation Protection Works (04/12)	
MRS16B	Vegetation Ground Works (04/12)	
MRS16C	Vegetation Works (04/12)	
MRS16D	Hardscape Works (04/12)	
MRS16E	Establishment and Monitoring Works (04/12)	
MRS17	Bitumen (11/11)	
MRS18	Polymer Modified Binder (11/11)	
MRS19	Cutter and Flux Oils (11/11)	
MRS20	Cutback Bitumen (11/11)	
MRS21	Bituminous Emulsion (06/09)	
MRS22	Supply of Cover Aggregate (10/10)	
MRS23	Supply and Delivery of Quicklime and Hydrated Lime for Road Stabilisation (06/09)	
MRS24	Manufacture of Precast Concrete Culverts (08/11)	
MRS25	Manufacture of Precast Concrete Pipes (06/09)	

Number	Title	Relevant to Project
MRS26	Manufacture of Fibre Reinforced Concrete Drainage Pipes (10/12)	
MRS27	Geotextiles (Separation and Filtration) (06/09)	
MRS28	Contractor's Site Facilities and Camp (06/09)	
MRS29	Polyethylene Pipes (11/11)	
MRS30	Dense Graded and Open Graded Asphalt(10/10)	
MRS31	Heavy Duty Asphalt (04/11)	_0\
MRS35	Recycled Materials for Pavements (04/11)	0
MRS38	Pavement Drains (08/11)	, (
MRS39	Lean Mix Concrete Sub-base for Pavements (10/10)	
MRS40	Concrete Base in Pavements Jointed Unreinforced, Jointed Reinforced, Continuously Reinforced and Steel Fibre Reinforced Pavements (10/10)	
MRS42	Supply of Wax Emulsion Curing Compound for Concrete (06/09)	
MRS45	Road Surface Delineation (08/12)	
MRS46	Skid Resistant Friction Coating for Steel Road Plates (10/10)	
MRS50	Specific Quality System Requirements (10/10)	
MRS51	Environmental Management (04/11)	
MRS55	Use of Explosives in Roadworks (04/11)	
MRS57	Geotextiles for Paving Applications (06/09)	

# Volume 3: MRS61-MRS95

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MRS61	Mounting Structures for ITS Devices (06/09)	
MRS62	Bridge Substructure (06/09)	
MRS63	Cast-In-Place Piles (10/10)	
MRS63A	Piles for Ancillary Structures (10/10)	
MRS65	Precast Prestressed Concrete Piles (04/11)	
MRS66	Driven Steel Piles (06/09)	
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MRS74	Supply and Erection of Prestressed Concrete Deck and Kerb Units (10/10)	
MRS75	Supply and Erection of Prestressed Concrete Girders (10/10)	
MRS76	Supply and Erection of Steel Girders (10/10)	
MRS77	Bridge Deck (06/11)	
MRS78	Fabrication of Structural Steelwork (01/12)	

Number	Title	Relevant to Project
MRS79	Fabrication of Aluminium Components (01/12)	
MRS80	Supply and Erection of Bridge Barrier (06/09)	
MRS81	Bridge Bearings (07/12)	
MRS81A	Stainless Steel Bridge Bearings (07/12)	
MRS82	Bridge Deck Expansion Joints (06/09)	
MRS83	Anti-Graffiti Protection (06/09)	_0)
MRS84	Deck Wearing Surface (06/09)	$\bigcirc$
MRS84A	Cold Milling Bridge Deck Wearing Surface (06/09)	
MRS85	Repainting Steel Bridges (06/09)	
MRS85A	Repainting Existing Steel Bridges and New Steel Bridges Zinc Metal Systems (06/09)	
MRS86	Preparation for Bridge Widening (06/09)	
MRS87	Supply of Timber Bridge Materials and Components (06/09)	
MRS88	Painting New Work (06/09)	
MRS89	Post-tensioned Concrete (06/09)	
MRS90	Modular Bridge Expansion Joints (06/09)	· · · · · · · · · · · · · · · · · · ·
MRS91	Conduits and Pits (06/09)	
MRS92	Traffic Signal and Road Lighting Footings (06/09)	
MRS93	Traffic Signals (06/09)	
MRS94	Road Lighting (06/09)	
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# Volume 4: MRS201-MRS255

Number	Title	Relevant to Project
MRS201	General Equipment Requirements (10/10)	
MRS202	Provision of Variable Message Signs (10/10)	
MRS203	Provision of Weigh-in-Motion System (10/10)	
MRS204	Provision of Vehicle Loop Detectors (10/10)	
MRS206	Provision of Variable Speed Limit and Lane Control Signs (10/10)	
MRS210	Provision of Mains Power (10/10)	
MRS221	Provision of Help Telephones (10/10)	
MRS222	Electronic School Zone Signs (11/12)	
MRS225	Imaging Equipment (10/10)	
MRS226	Telecommunication Field Cabinets (02/13)	
MRS227	Provision of Changeable Message Signs (10/10)	
MRS228	Provision of Electrical Switchboards (10/10)	
MRS231	Provision of Road Weather Monitors (10/10)	
MRS232	Provision of Field Processors (10/10)	

Number	Title	Relevant to Project
MRS234	Provision of Telecommunications Cables (10/10)	
MRS245	Principal's Telecommunications Network (10/10)	
MRS250	Provision of Automatic Number Plate Recognition System (10/10)	
MRS251	Provision of Traffic Counter/Classifier (10/10)	
MRS255	Traffic Signal Controllers (11/12)	
Last updat	Traffic Signal Controllers (11/12)  red 12 July 2013	

### INSPECTION & TEST PLAN PROCEDURES TABLE OF CONTENTS

These procedures are to be implemented in conjunction with the following documentation:-

- Standard Drawings Roads
- Standard Specifications Roads
- Manual of Uniform Traffic Control Devices
- Fraser Coast Regional Council Work Health and Safety Policy
- Fraser Coast Regional Council Quality Assurance System

Number	Description	Lot Nº	Date	Relevant to Project
WSC-ITP-001	Provision for Traffic	PTnn	05.08.03	<u>co i rojece</u>
WSC-ITP-002	Clearing and Grubbing	CGnn	05.08.03	
WSC-ITP-003	Ground Surface Treatment	GSnn	05.08.03	
WSC-ITP-004	Roadway Excavation	EXnn	05.08.03	
WSC-ITP-005	Roadway Embankment	EMnn	05.08.03	
WSC-ITP-006	Subgrade Preparations	SGnn	05.08.03	
WSC-ITP-007	Unbound Pavement	BAnn	05.08.03	
WSC-ITP-008	RCP Installation	CUccc	05.08.03	***
WSC-ITP-09	Backfill to Structures	BFnn	05.08.03	
WSC-ITP-010	Removal/Demolition of Culverts and Structures	RSnn	05.08.03	
WSC-ITP-011	Concrete Pour	CPnn	05.08.03	
WSC-ITP-012	Protective Treatments	RPnn	05.08.03	
WSC-ITP-013	Kerb and Channel	KCnn	05.08.03	
WSC-ITP-014	Installation of Road Signs Pavement Markers and Guide Markers	TSnn	05.08.03	
WSC-ITP-015	Bitumen Surfacing	BSnn	05.08.03	
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# PROVISION FOR TRAFFIC DURING CONSTRUCTION

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S LOT QUANTITY:		cification Requirements	W Drincipal prior to proceeding	y rinicipal prior to proceeding	20	affic Control Plan		km . Width > 3.5 km	ification / MRS 11:02	ification / MRS 11:02 for all areas	of works.			ossession of approved	o (if required)	affic Control Plan	affic Control Plan	7	×	at:-	56	ne following calendar month	Č		S	Date:
 LHS/RH9	***************************************	Spec	7 70011004110	Addiolised	As per MUTC	MUTCD & Tr		Lenath < 1	As per Speci	As per Speci	within 200m	10 mins		Must be in p	Ac per F M F	MITCD & Tr	MUTCD & Tr			ict I Declare th		y the end of th				~
<u>و</u>		Inspection or Test Method	OTI IM TO THE	Form 394 per MOTOD	Visual @ 2 per day	Visual @ 2 per day		Visual /Measurement	Visual – as required	Visual – as required		Visual/Measurement		Sighted – each	1)	Visual @ 2 per day	Visual	3		f the General Conditions of Contra	the specified requirements	ill be forwarded to the Principal b	accepted by the Principal			Date : / / PR
	TEICATION REFERENCE: MRS 11.02, Su	Activity of Service		Traffic Control Plan (Mandatory Hold Point)	Erection of Signs (Traffic Control	Clarity of Message	Sidetracks, Detours & Private	Entrance			Dust Control	į	<ul> <li>Max Delay Time</li> </ul>	Stop/Go Controllers		Environmental Management	Removal of all temporary traffic signs	upon project completion	FORMANCE GUARANTEE	cordance with Clauses 42.3 and 11.1 of	the lot conforms in all respects to	1 any outstanding documentation w	] all non conformances have been a			ot Approved COR
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Form 11AF & MUTCD  Activity of Service  Traffic Control Plan (Mandatory Hold Point)  Traffic Control Plan (Mandatory Hold Point)  To Point)  To Cation Plan (Mandatory Hold Point)  To Cation Plan (Mandatory Hold Point)  To Cation Plan (Mandatory Hold Point)  To Cation Plan (Mandatory Hold Point)  To Cation Plan (Mandatory Hold Point)	LOCATION: From To LHS/RHS LOT QUANTITY:  LOCATION REFERENCE: MRS 11.02, Supp.Spec. Form 11AF & MUTCD  SPECIFICATION REFERENCE: MRS 11.02, Supp.Spec. Form 11AF & MUTCD  Activity of Service Inspection or Test Method Specification Requirements Responsible Responsible PR Point)  1 Traffic Control Plan (Mandatory Hold Form 994 per MUTCD Authorised by Principal prior to proceeding PR Point)  2 Erection of Signs (Traffic Control Visual @ 2 per day As per MUTCD Appendix PR PR Plan)	LOCATION: From To LHS/RHS LOT QUANTITY: SPECIFICATION REFERENCE: MRS 11.02, Supp.Spec. Form 11AF & MUTCD  Activity of Service Inspection or Test Method Point)  Traffic Control Plan (Mandatory Hold Form 994 per MUTCD Authorised by Principal prior to proceeding PR Point)  Erection of Signs (Traffic Control Plan)  Clarity of Message Visual @ 2 per day MUTCD & Traffic Control Plan PF PF	LOT LOCATION: From To LHS/RHS LOT QUANTITY: To LHS/RHS LOT QUANTITY: SPECIFICATION REFERENCE: MRS 11.02, Supp.Spec. Form 11AF & MUTCD  Activity of Service Activity of Service Activity of Service Inspection or Test Method Form 994 per MUTCD Authorised by Principal prior to proceeding PR Plan)  Traffic Control Plan (Mandatory Hold Form 994 per MUTCD Authorised by Principal prior to proceeding PR Plan)  Erection of Signs (Traffic Control Plan (Wisual @ 2 per day As per MUTCD & Traffic Control Plan PF A Sidetracks, Detours & Private PF A S	LOT LOCATION: From To LHS/RHS LOT QUANTITY:  SPECIFICATION REFERENCE: MRS 11.02, Supp.Spec. Form 11AF & MUTCD  Activity of Service Inspection or Test Method Specification Requirements Responsible  Traffic Control Plan (Mandatory Hold Form 994 per MUTCD Authorised by Principal prior to proceeding PR Point)  Traffic Control Plan (Mandatory Hold Form 995 per MUTCD Authorised by Principal prior to proceeding PR Plan)  Erection of Signs (Traffic Control Plan (Visual @ 2 per day As per MUTCD & Traffic Control Plan PF PF A Sidetracks, Detours & Private Petrance Private Petrance Private Petrance Private Petrance Private Petrance Private Petrance Petra	LOCATION: From  SPECIFICATION REFERENCE: MRS 11.02, Supp.Spec. Form 11AF & MUTCD  Activity of Service  Activity of Service  I Traffic Control Plan (Mandatory Hold Form 994 per MUTCD  Point)  I Traffic Control Plan (Message Visual @ 2 per day  As per MUTCD & Traffic Control Plan  Activity of Message  I Traffic Control Plan (Message Visual @ 2 per day  As per MUTCD & Traffic Control Plan  As per MUTCD & Traffic Control Plan  As per MUTCD & Traffic Control Plan  As per MUTCD & Traffic Control Plan  As per MUTCD & Traffic Control Plan  As per Specification / MRS 11:02  PF  As per MUTCD & Traffic Control Plan  As per Specification / MRS 11:02  PF	LOCATION: From To LHS/RHS LOT QUANTITY:  SPECIFICATION REFERENCE: MRS 11.02, Supp.Spec. Form 11AF & MUTCD  Activity of Service  Traffic Control Plan (Mandatory Hold   Form 994 per MUTCD   Print)  Traffic Control Plan (Mandatory Hold   Form 994 per MUTCD   Authorised by Principal prior to proceeding   Print)  Traffic Control Plan (Mandatory Hold   Form 994 per MUTCD   As per MUTCD   Print)  Traffic Control Plan (Mandatory Hold   Form 994 per MUTCD   As per MUTCD   Print)  Traffic Control Plan (Mandatory Hold   Form 994 per MUTCD   As per MUTCD   Print)  As per Mutch Sabara   As per Specification / MRS 11:02 for all areas   Print)  Seconetry of sidetrack   Visual - as required   As per Specification / MRS 11:02 for all areas   Print)  Surface Condition Maintenance   Visual - as required   As per Specification / MRS 11:02 for all areas   Print)	LOCATION: From To LHS/RHS LOT QUANTITY:  SPECIFICATION REFERENCE: MRS 11.02, Supp.Spec. Form 11AF & MUTCD  Activity of Service Inspection or Test Method Point)  Traffic Control Plan (Mandatory Hold Porm 994 per MUTCD Authorised by Principal prior to proceeding PR Plant)  Traffic Control Plan (Mandatory Hold Porm 994 per MUTCD Authorised by Principal prior to proceeding PR Plant)  Traffic Control Plan (Mandatory Hold Porm 994 per MUTCD Authorised by Principal prior to proceeding PR Plant)  A Sidertacks, Detours & Private Sidetracks, Detours & Private Pentrance  • Geometry of Sidetrack Visual / Measurement As per Specification / MRS 11:02 for all areas As per Specification / MRS 11:02 for all areas Private Pust Control  • Dust Control	LOCATION: From To LHS/RHS LOT QUANTITY:  SPECIFICATION REFERENCE: MRS 11.02, Supp. Spec. Form 11AF & MUTCD  Activity of Service Inspection or Test Method Specification Requirements  I Traffic Control Plan (Mandatory Hold Form 994 per MUTCD  2 Erection of Signs (Traffic Control Visual © 2 per day Plan)  3 Clarity of Message Visual Weasurement Entrance  4 Sidetracks, Detours & Private Entrance  5 Geometry of sidetrack  • Geometry of sidetrack  • Surface Condition Maintenance Visual — as required Entrance Condition Maintenance Visual — as required Entrance Condition Maintenance Visual — as required Entrance Entrance Condition Maintenance Visual — as required Entrance Entrance Condition Maintenance Visual — as required Entrance Entrance Entrance Condition Maintenance Visual — as required Entrance	LOCATION: From To To LHS/RHS LOT QUANTITY:  SPECIFICATION REFERENCE: MRS 11.02, Supp.Spec. Form 11AF & MUTCD  Activity of Service Inspection or Test Method Point)  Traffic Control Plan (Mandatory Hold Form 994 per MUTCD Form 994 per MUTCD Form 994 per MUTCD Form 995 per Policitation Mutch 995 per Policitation 995 per Policitation 995 per Policitation 995 per Pol	DOCATION: From   To   Description or Test Method   Specification Requirements   Promotive Control Plan (Mandatory Hold   Porm 994 per MUTCD   Promotive Control Plan (Mandatory Hold   Porm 994 per MUTCD   Promotive Control Plan (Mandatory Hold   Porm 994 per MUTCD   Authorised by Principal prior to proceeding   Promotive Control Plan   Promoti	LOCATION: From   To   LHS/RHS   LOT QUANTITY:	LHS/RHS   LOT QUANTITY:   SPECIFICATION: From   To   LHS/RHS   LOT QUANTITY:	DOCATION: From   To   LHS/RHS   LOT QUANTITY:	LOCATION: From To LHS/RHS LOT QUANTITY:  SPECIFICATION REFERENCE: MRS 11.02, Supp.Spec. Form 11AF & MUTCD  Activity of Service   Inspection or Test Method   Specification Requirements   PF    I Traffic Control Plan (Mandatory Hold   Form 994 per MUTCD   Authorised by Principal prior to proceeding   PF    I Traffic Control Plan (Mandatory Hold   Form 994 per MUTCD   Authorised by Principal prior to proceeding   PF    I Traffic Control Plan (Mandatory Hold   Form 994 per MUTCD   As per MUTCD   PF    I Traffic Control Plan (Mandatory Hold   Form 994 per MUTCD   As per MUTCD   PF    I Traffic Control Plan (Mandatory Hold   Form 994 per MUTCD   As per MUTCD   PF    I Siderracks, Detours & Private   Visual   Measurement   As per Specification / MRS 11:02   PF    I Siderracks, Detours & Private   Visual - as required   As per Specification / MRS 11:02   PF    I Stopy Go Controllers   Sighted - each   As per Specification   As per EM.P. (if required)   PF    I Removal of unnecessary signage   Visual   As per EM.P. (if required)   PF    I Removal of unnecessary signage   Visual   As per EM.P. (if required)   PF    I Removal of unnecessary signage   Visual   As per EM.P. (if required)   PF    I Removal of unnecessary signage   Visual   As per EM.P. (if required)   PF    I Removal of all removal of all removal of unnecessary signage   Visual   As per EM.P. (if required)   PF    I Removal of all removal	Traffic Control Plan (Mandatory Hold Porm 994 per MUTCD   Activity of Service   Inspection or Test Method   Specification Requirements   Responsible     Traffic Control Plan (Mandatory Hold Porm 994 per MUTCD   Authorised by Principal prior to proceeding   PR     Point)	To CATION: From   To   LHS/RHS   LOT QUANTITY:	DOCATION: From   To   DHS/RHS   LOT QUANTITY:	Traffic Control Plan (Mandatory Hold Form 994 per MUTCD   Activity of Service   Visual Measurement of Sidertacks, Detours & Private   Sighted – each   Accreditation Maintenance   Visual - Accreditation Maintenance   Visual - Audit   Accreditation   Acc	Traffic Control Plan (Mandatory Hold Pearlice Control Plan Martinenance of Surface Condition Maintenance   Surface Condition	Tarific Control Plan (Mandatory Hold Form 394 per MUTCD   Activity of Service   Inspection or Test Method   Specification Requirements   Responsible   PF	DECATION: From   To   LHS/RHS   LOT QUANTITY:

R

Date:

CQR

Lot Approved

## **CLEARING AND GRUBBING**

ROAD:	4D: JOB NO:		ITEM NO:	LOT NO:	***************************************
LOT	2				
707 100	LOCATION: From	To	LHS/RHS LOT QUANTITY:	***************************************	
SPE	SPECIFICATION REFERENCE: MRS 11.04 AND MRS 11.06	90'1			
	Activity of Service	Inspection or Test Method	Specification Requirements	Officer Responsible	Quality Verified By
-	Set Out	Survey/Measureme nt @ 50m	Earthworks as per drawings + min (3m, to property boundary)	Ь	
7	Environmental Management	- 9			-
	Fauna Habitat Logs	Visual	As per Environmental Management Plan (if	H.	
	Erosion and Sedimentation Controls	Visual	required)	봅	
	Mark trees to be removed	Visual - Mandatory	As per Environmental Management Plan (if	R	
	Identify millable timber	Holdpoint	required)	A.	
		Visual - Mandatory	Authorised by Principal prior to proceeding		
		Holdpoint	Authorised by Principal prior to proceeding		
٣	Services	<			
	Locate, relocate and /or protect (if	Visual/Instrument	As per relevant Service Authority	<u>Ч</u>	
	required)	Q			

		The second secon				
9	Permission to burn on-site	Visual	Fire Permit No		PF	
7	Remove unburnt timber and millable timber	Visual			PF	
0	CONFORMANCE GUARANTEE		5		Officer Res	Officer Responsible Code
In	In accordance with Clauses 42.3 and 11.1 of the General Conditions of Contract I Declare that:-	eral Conditions of Contr	act I Declare that:-			Principal's Rep
	the lot conforms in all respects to the specified requir	ified requirements			PF Proje	Project Foreman
	any outstanding documentation will be forwarded to the Principal by the end of the following calendar month	varded to the Principal	by the end of the following calendar	month	CQR Conti	Contractors Quality Rep
	□ all non conformances have been accepted by the Principal	by the Principal				

품 품 품

To not less than 300mm below ground

On ground surface On ground surface

surface

Visual Visual Visual

> Rocks and artificial obstructions in areas where road cuttings are not to be

constructed

Trees, stumps, roots and abandoned

Traffic Control

Remove

4 և

183

Vegetable matter

services

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WSC ITP-01

/ /	
Date :	2
/ PR	
Date: /	
CQR	
Lot Approved	

## **GROUND SURFACE TREATMENT**

ROAD:		JOB NO:	ITEM NO:		LOT NO:	
LOT						
$\asymp$	LOCATION: From	To	LHS/RHS	LOT QUANTITY:		
PE	SPECIFICATION REFERENCE: MRS 11.04					
	Activity of Service	Inspection or Test Method	Specification Requirements	equirements	Officer Responsible	Quality Verified By
	Location	Survey/Measurement	As per drawings		PF	
2	Environmental Management	Visual and Audit	As per Environmental Management Plan (if required)	agement Plan (if	뿝	
3	Remove Topsoil (if required)	Visual	As per specification		PF	
4	Fill/Compact Holes & Localised Depressions	Visual/Field Tests @ 1 per 2000m	RDD ≥ 95%/as per specification	cation	PF	
2	Compaction – Density					
	<ul> <li>If GS ≥300mm below subgrade</li> </ul>	Field Test @ 1 per 2000m	RDD > 95% for 0 – 150mm below GS (Test	n below GS (Test	F !	
	<ul> <li>If GS ≤300mm below subgrade</li> </ul>	Field Test @ 1 per 2000m <sup>2</sup>	Certificate No)   RDD ≥ 97% for 0 – 300mm below (Test	n below (Test		
			Certificate No )			
	Moisture Content	Lab Test @ 1 per material type	80%OMC ≤ Moisture Content ≤100% OMC (Test Certificate No)	ent ≤100% OMC )	Ъ	
ō	CONFORMANCE GUARANTEE		,		Officer Responsible Code	sible Code
a	In accordance with Clauses 42.3 and 11.1 of the General Conditions of Contract I Declare that:-	of the General Conditions of Con	itract I Declare that:-		PR Principal's Rep	s Rep
	the lot conforms in all respects to the specified requi	o the specified requirements	X		PF Project Foreman	oreman
_	□ any outstanding documentation will be forwarded to	will be forwarded to the Principa	the Principal by the end of the following calendar month	g calendar month	CQR Contracto	Contractors Quality Rep
_	□ all non conformances have been accepted by the Principal	accepted by the Principal				

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	Date:	
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	Lot Ap	

### ROADWAY EXCAVATION

ROAD:		JOB NO:	ITEM NO:	LOT NO:	
	2				
ATI	LOCATION: From	То	LHS/RHS LOT QUANTITY:		
CIFI	SPECIFICATION REFERENCE: MRS 11.04				
	Activity of Service	Inspection or Test Method	Specification Requirements	Officer Responsib	\$\$
Ŋ	Set Out/Geometrics	2		ַ	À
•	Horizontal	Survey/Measurement @ 50m	As per drawings ± 50mm	H.	<del></del>
•	Vertical – primary	ent @	As per drawings ± 50mm	PF	
	• Vertical – additional	Survey/Measurement @ 50m	As per drawings $\pm$ 15mm	<b>T</b>	
	(Straight Edge)	(רפור מ אולוויו)	WSC ITD-05	PE	
4'	caan		W.C. 111-05W	בן ני ני	
	Environmental Management • Spoil (if required)	Visual	As per Environmental Management Plan (if required)	PF.	
	Batter				
<u> </u>	Shape	Visual – no loose material	As per drawings and specifications	품	.,
	Protruding rock	Visual	No protruding rock greater than min (300mm or $^1\!/_3$ batter height)	l or	
	Table Drains	Visual – free draining	No ponding	PF	
	Compaction				
•	Density	Field Compaction Test @ 1 per	RDD > 97% for 0 to 150mm depth (Test	<u></u>	
_	Moisture Content	Journal Appendix		-	
			80%OMC ≤ Moisture Content ≤ 100% OMC for to 150mm don'th (Test Certificate No.	or PF	
IJĔ	CONFORMANCE GUARANTEE		ס גם דיסטוווון מבלינון (ובפר ככו מווימנה ואסיייי	Officer Re	Officer Responsible Code
8	In accordance with Clauses 42.3 and 11.1 of the General Conditions of Contract I Declare that:-	the General Conditions of Contra	ct I Declare that:-	PR Prin	Principal's Rep
П	the lot conforms in all respects to the specified requirements	the specified requirements			Project Foreman
ПГ	any outstanding documentation will be forwarded to the Pall non conformances have been accepted by the Principal	Il be forwarded to the Principal by crepted by the Principal	the Principal by the end of the following calendar month	CQR Con	Contractors Quality
,	3				

Date:

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Date:

Lot Approved

## **ROADWAY EMBANKMENT**

Ω ₹ΤΙ	ROAD: JOE	JOB NO:	ITEM NO:	LOT NO:	
201	1				
<b>9</b>	LOCATION: From	To	LHS/RHS LOT QUANTITY:		
	SPECIFICATION REFERENCE: MRS 11.04				
3	Activity of Service	Inspection or Test Method	Specification Requirements	Officer Responsible	Quality Verified Bv
$\vdash$	Set Out/Geometrics • Cross section/profile	Survey measurement @ 50- m	As per specification and drawings	44	
7	Environmental Management • Erosion and Sedimentation Controls)	Visual - Audit	As per Environmental Management Plan (if required)	PF	
m	Embankment Materials • Quality	Visual	As per specification including:-  • Free of organic matter  • In top 300mm : no rock > 80mm dia	PF	
186	Compaction	Field Compaction Test @ 1 per 500m² Lab Test	RDD ≥ 97% for 0 to 150mm depth (Test Certificate No ) 80%OMC ≤ Moisture Content ≤ 100% OMC for 0 to 150mm depth (Test Certificate No	PF PF	
S	CONFORMANCE GUARANTEE	the General Landitions of	the case of the ca	Officer Responsible Code	ble Code
<b>-</b>	the lot conforms in all respects to the specified requirements	the specified requirements	tract i Deciale triat	PF Project Foreman	Project Foreman Contractors Quality Rep
	all non conformances have been accepted by the Princi	ccepted by the Principal	all non conformances have been accepted by the Principal		
L					
_	Lot Approved CQR	Date: / /	PR	Date: /	_

## SUBGRADE PREPARATION

***************************************		***************************************	Quality Verified By																		Code	0	
LOT NO:		**************************************	Officer Responsible	PF	품				뚭			PF		문	품		뚮			PR	Officer Responsible Code	PR Principal's Rep	
***************************************	LOT QUANTITY:	WESTERNAMENTON	Specification Requirements	шш	E E				Management Plan (if			As per specification – Test Certificate No		ad	50mm depth (Test			80%OMC $\leq$ Moisture Content $\leq$ 100% OMC for	st Certificate No)	prior to proceeding	O.X.		
ITEM NO:	LHS/RHS	***************************************	Specification	As per drawings ± 50 r	As per drawings ± 50 mm	As per drawings + 15 mm			As per Environmental Management Plan (if	required)		As per specification – T	X	No movement under load	RDD ≥ 97% for 0 to 150mm depth (Test	Certificate No		80%OMC ≤ Moisture C	0 to 150mm depth (Test Certificate No	Authorised by principal prior to proceeding		ntract I Declare that:-	
JOB NO:	Т		Inspection or Test Method	Survey/measurement @		Survey/measurement @ 20-m (3 points)	Survey/measurement @ 3	ווו (ופור מווח נואוור)	Visual - Audit			CBR test @ 1 per 500 m <sup>2</sup>		Visual inspection of proof	rolling	Field Compaction Test @ 1	per 500m²	Lab Test @ 1 per material	type	Inspection		of the General Conditions of Co	
	TION: From	SPECIFICATION REFERENCE: MRS 11.04	Activity of Service	Set Out/Geometrics      Horizontal	<ul> <li>Vertical-primary</li> </ul>	<ul> <li>Vertical – additional (straight</li> </ul>	edge)	Environmental Management	<ul> <li>Erosion and Sedimentation</li> </ul>	Controls)	Subgrade Materials	<ul> <li>Quality</li> </ul>	Compaction	<ul> <li>Stiffness</li> </ul>	<ul> <li>Density</li> </ul>		<ul> <li>Moisture Content</li> </ul>			Mandatory Hold Point	CONFORMANCE GUARANTEE	In accordance with Clauses 42.3 and 11.1 of the General Conditions of Contract I Declare that:-	
₽ROAD:	LOCA1 2017/1	SPECI	3	н				2			რ 18		4				,			2	CONF	In acc	

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Date:	
Date	
Date :	
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CQR	
Approved CQR	
Lot A	

any outstanding documentation will be forwarded to the Principal by the end of the following calendar month

the lot conforms in all respects to the specified requirements

all non conformances have been accepted by the Principal

Contractors Quality Rep

SQR

Officer Responsible Code
PR Principal's Rep
PF Project Foreman

### **UNBOUND PAVEMENT**

ROAD:		JOB NO:	ITEM NO:	LOT NO:	
LOT	3				
$\aleph$	LOCATION: From From	To	LHS/RHS LOT QUANTITY:		
$\Omega$	IFICATION REFERENCE: MRS 11.05	4			
	Activity of Service	Inspection or Test Method	Specification Requirements	Officer Responsible	Quality Verified By
	Authority to Proceed	Subgrade Inspection	Site Inspection Approved	PR	
	<ul><li>Environmental Management</li><li>Erosion and Sedimentation</li></ul>	Visual - Audit	As per Environmental Management Plan	PF	
1	Stockpile Sites - Pavement	5			
	Quantity     Quality (Segregation)	Visual Inspection	Delivery Dockets Test Certificate No	F G	
1	Set Out/Geometrics				
	Horizontal	Survey/Measurement @ 50 m	As per drawings ± 50 mm	뚭	
	Vertical-primary Type 1	Survey/Measurement @ 50 m (5	As per drawings ± 15 mm	F.	
	Vertical primary – Type 2, 3, 4	points)		뚮	
	<ul> <li>Vertical-additional straight edge Type 1</li> </ul>	Survey/Measurement @ 50 m (3 points)	As per drawings < 5 mm - Test Certificate No	F F	
	Vertical-additional straight edge	Survey/Measurement	As nominated	·	
	Type 2, 3, 4	Survey/Measurement	0	吊	
	Surface evenness		Test Certificate No	붑	
	Crossfall	Roughness test @ 100 m Survey/Measurement	≤ .05% depart from nominated crossfall		
l	Compaction				
	Layer Thickness	Measurement	Test Certificate Average − 75 mm ≤	붑	
	• Movement	Proof rolling inspection	layer Thickness < 250 mm	Щ	
	• Density	Field Density Tests @ 1 per 200	No movement under load	. L	
1	Degree of Saturation		NUD / 100% - 1631 Cel tillcate IVO		
	<ul> <li>Apparent Particle Density</li> </ul>	per 10,0	Č	FF.	
	Degree of Saturation	Lab Test @ 1 per 500 m²	S	눈	
ł	Mandatory Hold Point	Inspection	Authorised by Principal prior to	W.	
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	BCC-#35
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Ui <del>□</del> R	CONFORM In accorda	Officer Responsible Code PR Principal's Rep PF Project Foreman
RTI 2017	the lot conforms in all respects to the specified requirements □ any outstanding documentation will be forwarded to the Principal by the end of the following calendar month □ all non conformances have been accepted by the Principal	œ
18-0		
003	Lot Approved CQR	Date: / /
189	eleased under Right to Information Act 2009	

## RC PIPE/CULVERT INSTALLATION

RTI	ROAD: JOB NO:		ITEM NO:	LOT NO:	
<b>O</b> 201	,				
ў 7/18	CATION: From	То	LHS/RHS LOT QUANTITY:		
SSPE(	SPECIFICATION REFERENCE: MRS 11.03, MRS 11.04	.04			
3	Activity of Service	Inspection or Test Method	Specification Requirements	Officer Responsible V	Quality Verified
	Supply and acceptance of pipes &	2			À
<del></del>	accessories	Count	Delivery Docket to match order	PF	
	Number     Quality	Visual inspection		F	
7	Environmental Management	Visual - Audit	As per Environmental Management Plan (if required)	PF	
m	Excavation - Location & Shape				
	New lines	Survey	As per drawings – field books	H.	
	<ul> <li>Extension of existing lines</li> </ul>	Visual	To match existing grade	PF	
4	Shoring (if required)		Conform to shoring procedure	PF	
<b>ഹ</b> 19	Replace Unsuitable Material in Foundation	Visual inspection	As per specification (if required)	ЬF	
	Foundation Material				
	Quality	Visual Inspection	A	품	
	Compaction	Lab Test (2 per lot)	95% MDD (std) (min) - Test Certificate	H.	
			NO		
_	Pipe Laying				
<u></u>	Bedding Sand (quality)	Lab Test	Clean, well graded. Full depth layer to	PF	
			profile under pipes as per drawing Test Certificate No		
	Compaction	Lab Test	D.I. 70% Test Certificate No	PF	
	Mandatory Hold Point	Inspection	Authorised by Principal prior to	R	
	Pipes (line, level & jointing)	Survey/Visual Inspection	proceeding Internal < 5 mm projection	PF	
∞	Backfilling (overlay zone)				
	Layer Thickness and Compaction	Density Test (2 per lot)	Maximum layer – 300 mm Test	Щ.	
			Certificate No		

and 11.1 of the General Conditions of Contract I Declare that:-	the lot conforms in all respects to the specified requirements  any outstanding documentation will be forwarded to the Principal by the end of the following calendar month  CQR Contractors Quality Rep all non conformances have been accepted by the Principal	CQR	eleased under Right to Information Act 200
CONFORMANCE GUARANTEE In accordance with Clauses 42.	☐ the lot conforms☐ any outstanding☐ all non conforma	Lot Approved   CQR	

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## **BACKFILL TO STRUCTURES**

Activity of Service         Inspection or Test Method         Specification Requirements         Cofficer         Quality Perfied By           Eture Complete and Cured         Authority to proceed         As per specification         As per specification         PF         PR           Fill Materials – Supplier Certification ading         Lab Tests ! 1 per 100m² if lot          As per spec – Test Certificate No         PF         PF           Fill Materials – Supplier Certification ading         Lab Tests ! 1 per 100m² if lot > 300m³         As per spec – Test Certificate No         PF         PF           Indication action         Lab Tests ! 1 per 300m²         As per spec – Test Certificate No         PF         PF           Indication action         As per spec – Test Certificate No         PF         PF           Indication action         As per spec – Test Certificate No         PF           Indication action         As per spec – Test Certificate No         PF           Indication         As per spec – Test Certificate No         PF           Indication         As per spec – Test Certificate No         PF           Indication         As per spec – Test Certificate No         PF           Indication         As per spec – Test Certificate No         PF           Indicate Action	ROAD: LOT LOCATION: From	JOB NO:	То	ITEM NO:  LHS/RHS  LOT QUANTITY:	LOT NO:	
cification vironmental Management quired)  c - Test Certificate No  c - Test Certificate No  c - Test Certificate No  c - Test Certificate No	SSPECIFICATION REFERENCE: MRS 11.04, MRS 11.70 Activity of Service Inspe	I.70 Inspe	Inspection or Test Method	Specification Requirements	Officer Responsible	Quality Verified Bv
rironmental Management  quired)  c - Test Certificate No  c - Test Certificate No  compacted  ∠ Moisture Content ∠  ∠ Moisture Content ∠  compacted  compacted  compacted  compacted  llowing calendar month  CQR	Structure Complete and Cured Author	Author	Authority to proceed	As per specification	PR	
c – Test Certificate No	Environmental Management Visual	Visual	Visual - Audit	As per Environmental Management Plan (if required)	ЬF	
c – Test Certificate No	Backfill Materials - Supplier Certification		Ć			
% Test Certificate No	<ul> <li>Grading</li> <li>Linear Shrinkage</li> </ul>	Lab Te	sts! 1 per 1	As per spec – Test Certificate No	ዜ ዜ	
% Test Certificate No		Lab Te 300m³	Lab Tests! 1 per 300m² if lot > 300m³			
% Test Certificate No	Layer Thickness Visual	Visual		100 mm compacted	PF	
≤ Moisture Content ≤ C 0-150mm depth Test No compacted compacted officer PR PR PF Ilowing calendar month CQR	Compaction  • Density Field 7	Field <sup>-</sup>	Field Test @ 1 per 50 m³	RDD > 95% Test Certificate No	H.	
C 0-150mm depth Test  No	e Content	Lab Te	Lab Test @ 1 per material type	80% OMC < Moisture Content ≤	H.	
compacted  Officer PR PR PF Ilowing calendar month CQR				100% OMC 0-150mm depth Test Certificate No	PF	
Officer PR PF PF Ilowing calendar month CQR	Opposing sides level Visual	Visual		< 150mm compacted	PF	
PR PF Illowing calendar month CQR	CONFORMANCE GUARANTEE				Officer Responsible	e Code
PF CQR	In accordance with Clauses 42.3 and 11.1 of the General Conditions of Contract I Declare that:-	Genera	I Conditions of Contract I De	clare that:-		۵
CQR	the lot conforms in all respects to the specified requirements	specifi	ed requirements	C		ıan
	any outstanding documentation will be forwarded to the Parincipal	forwa	rded to the Principal by the e the Principal	nd of the following calendar month		Juality Rep

Date:

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Date:

CQR

Lot Approved

# INSPECTION AND TEST PLAN PROCEDURE/AUDITREMOVAL / DEMOLITION OF CULVERTS AND STRUCTURES

L'ROAD:	D: JOB NO:		ITEM NO:	111111111111111111111111111111111111111	LOT NO:	
<b>LO</b> 7201	R					
) 0 17/18	From From	То	LHS/RHS LOT QUANTITY:	ITITY:		
<b>SPEC</b>	SPECIFICATION REFERENCE: MRS 11.03, MRS 1104	104				
8	Activity of Service	Inspection or Test Method	Specification Requirements	nts	Officer Responsible	Quality Verified By
1	Environmental Management	Visual	As per Environmental Management Plan (if required)	ıt Plan	рF	
7	Excavation	Visual	As per specification		PF	
m	Remove Structure / Culvert	Visual	No damage to reusable components and adjacent works.	its and	PF	
4	Storage of Structure / Culvert	Visual	As per specification		PR	
2	Complete Excavation	Visual	As per specification		PF	
9	Backfill (if required)	Backfill – ITP	As per specification		PF	
CON	CONFORMANCE GUARANTEE	3			Officer Responsible Code	le Code
In a	In accordance with Clauses 42.3 and 11.1 of the General Conditions of Contract I Declare that:-	General Conditions of Contract	I Declare that:-			de
ں 19	the lot conforms in all respects to the specified requirements	specified requirements				man
ப 3	any outstanding documentation will be forwarded to the		Principal by the end of the following calendar month	onth	CQR Contractors	Contractors Quality Rep
	all non conformances have been accepted by the Principa	pted by the Principal	/×			

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## RCP CULVERT END STRUCTURES

RTI	ROAD: JOB NO:		ITEM NO:	LOT NO:	
201	10				
<b>9</b>	LOCATION: From	То	LHS/RHS LOT QUANTITY:		
SSPE(	SPECIFICATION REFERENCE: MRS 11.03, MRS 11.04	.04 , MRS 11.70			
3	Activity of Service	Inspection or Test Method	Specification Requirements	Officer Responsible	Quality Verified By
	Geometrics (including dimension, position & relative position)	Measurement/survey @ all points for which levels are shown on Drawings	Vertical dimension as per drawings ± 10mm	PF	
2	Environmental Management	Visual - Audit	As per Environmental Management Plan (if required)	PF	
ю	Excavation • Line and level • Foundation compaction	Visual Visual	To match formwork No movement under load (test if required)	PF	
<b>4</b>	Formwork  • Design	Calculations or Standard Design	As per design	PF	
4	<ul><li>Erection and propping</li><li>Surface preparation</li></ul>		as per design Surface clean of debris	44	
	Strip upon completion	Visual	50% characteristic strength or after 3 days	PF	
2	Reinforcing Steel (if required)	Visual	As nor drawings and from of	DE	
	Placement and tying	Visual	rust/damage Spacing cover and lap per	- <del>L</del>	
စ	Mandatory Hold Point	Visual Inspection	specification Authorised by Principal to proceed	A.A.	
7	Concrete	Supplier cortification	Approved mix	AQ.	
	Compressive strength	Lab test @ 2 per lot	As per spec-Test Certificate No	PF.	
	• Slump	Visual @ 1 per batch	As per specification	<u></u>	
	Construction joints	Visual	No segregation Only at specified locations as per	L L	
	• Curing	Visual	drawings	H i	
α	Strip formwork upon completion     Mandatory Hold Point	Visual	As per specification Authorised by Principal prior to	7 8	
•	יים ומוסים לא המוסים המוסים המוסים המוסים המוסים המוסים המוסים המוסים המוסים המוסים המוסים המוסים המוסים המוסים		proceeding	<u>-</u>	

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	3211864-V1-PROJECT_PLANInternal_Works

6 B	Backfill	WSC-TTP-09	As ner spec ITP of No	T NO	DE	
CONFC CONFC RTI 2017/18-	CONFORMANCE GUARANTEE  In accordance with Clauses 42.3 and 11.1 of the General Conditions of Contract I Declare that:-  the lot conforms in all respects to the specified requirements  any outstanding documentation will be forwarded to the Principal by the end of the formances have been accepted by the Principal	IANCE GUARANTEE  nce with Clauses 42.3 and 11.1 of the General Conditions of Contract I Declare that:- the lot conforms in all respects to the specified requirements any outstanding documentation will be forwarded to the Principal by the end of the following calendar month all non conformances have been accepted by the Principal	I Declare that:-	calendar month	Officer Responsible Code PR Principal's Rep PF Project Foreman CQR Contractors Quality Rep	ode ity Rep
003	Lot Approved CQR	Date: / / PR			Date: / /	
195		Jeased under Riol	ader Right to Information Act 2009	ion Act 200°		
DOCSHE	ACC-#3211864-V1-PROJECT PLAN - Internal Work	DOCSHBCC-#3211864-V1-PROJECT BLAN - Internal Works 2015 - Challoott Street Topone - Bandmant Wildoning Bood Society And Presidents - 20015 Presidents	Midening Dead Coaling And Drain	72 YOUR DOOL	***************************************	

## PROTECTIVE TREATMENTS

			Quality Verified By								ble Code Rep	Contractors Quality Rep
LOT NO:			Officer Responsible	PF	PF	PF	PF		<u></u> ደ ደ	PF	Officer Responsible Code PR Principal's Rep PF Project Foreman	~
ITEM NO:	LHS/RHS LOT QUANTITY:		Specification Requirements	As per Environmental Management Plan (if required)	As per drawings and specifications	As per drawings and no noticeable overall irregularities in horizontal & vertical alignments.	150mm ≤ rock diameter ≤ 500mm		Even layer thickness and grade Large and small rocks are uniformly distributed so as to minimize voids. Difference in vertical height of riprap protection	relative to embankment < 1m at all times during construction		nents Principal by the end of the following calendar month Dal
:01	Q.		Inspection or Test Method	Visual As per Er required)	Measurement / visual As po	Measurement / visual As po	Visual 150n		Visual Even Visual Large Visual so as	relat	he General Conditions of Contract	ne specified requirements be forwarded to the Principal by th cepted by the Principal
D: JOB NO:	LOT LOCATION: From	SPECIFICATION REFERENCE: MRS 11.03	Activity of Service	Environmental Management	Excavation (if required) Line and location	section	Materials  Rock dimensions		Construction  Layer thickness  Rock distribution  Height during construction		<b>CONFORMANCE GUARANTEE</b> In accordance with Clauses 42.3 and 11.1 of the General Conditions of Contract I Declare that:-	the lot conforms in all respects to the specified requirements any outstanding documentation will be forwarded to the Prin all non conformances have been accepted by the Principal
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Date:

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Date:

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Lot Approved

# CONCRETE KERB, KERB & CHANNEL, CROSSINGS

Quality Verified Contractors Quality Rep By Officer Responsible Code
PR Principal's Rep
PF Project Foreman Responsibl Officer 품 품 문 문 문 품 문 문 문 **44444** LOT NO: SQR As per spec - Test Certificate No .......... Conduits/culverts/other services installed As per Environmental Management Plan Horizontal dimension as per drawings ± LOT QUANTITY: Surface moistened prior to placement Vertical dimension as per drawings ± **Specification Requirements** Minimum 7 days before any adjacent Mould as per specification/drawings any outstanding documentation will be forwarded to the Principal by the end of the following calendar month As per drawings and specification At maximum intervals of 20m At maximum intervals of 5m located/relocated/protected No movement under load oadworks operations As per specification As per specification **Existing services** No segregation (if required) In accordance with Clauses 42.3 and 11.1 of the General Conditions of Contract I Declare that:-LHS/RHS ITEM NO: 10mm **10mm Inspection or Test Method** the lot conforms in all respects to the specified requirements Supplier Certification Visual @ 1 per batch Measurement/Visual Measurement/Visual Visual/Measurement Measurement/Visual Visual/Measurement Lab test @ 1 per lot all non conformances have been accepted by the Principal Visual - Audit ပ Visual Visual Visual Visual Visual Visual Visual LOCATION: From From SSPECIFICATION REFERENCE: MRS 11.03, MRS 11.70 **JOB NO: Activity of Service Environmental Management**  Foundation compaction CONFORMANCE GUARANTEE Compressive strength Kerb Track Preparation Horizontal alignment Vertical alignment Contraction joints Place and vibrate Moisture Content **Expansion joints**  Kerb profile Line & level Geometrics Existing Material Slump Concrete Services Curing New ROAD: 2 ന 4 Ŋ RTI

Date:	CRC - Released under Right to Information Act 2009
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Date	2010
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DOCSHBCC-#3211864-V1-PROJECT\_PLAN\_-Internal\_Works\_2016\_-Shellcott\_Street\_Togoom\_-\_Pavement\_Widening\_Road\_Sealing\_And\_Drainage\_-\_270916.Do

# INSTALLATION OF ROAD FURNITURE AND PAVEMENT MARKING

II ROAD:		30B NO:		ITEM NO:		LOT NO:
<b>LO1</b> 201	, ,	2				
TOCATION:	From	C	70	LHS/RHS	LOT QUANTITY:	
SPECIFICATION R	SPECIFICATION REFERENCE: MRS 11.14, MRS 11.45	1.14, MRS 11.4		***************************************	www.	

	Activity of Coming	The section of the se			
	ACTIVITY OF SELVICE	Inspection of lest Method	Specification Requirements	Officer (Responsibl V	Quality Verified Bv
1	Environmental Management	Visual - Audit	As per Environmental Management Plan (if required)	) H	
7	Material - Paint	3			
	Bleeding	Supplier Certification	Test Certificate No	<u>Ч</u>	
	Fineness	Lab Test @ 1 per batch	Test Certificate No	<u></u>	
	<ul> <li>Visible settlement</li></ul>	Lab Test @ 1 per batch	Test Certificate No	<b>L</b>	
	<ul> <li>Wet film thickness }supplier</li> </ul>	Lag Test @ 1 per batch	Test Certificate No	F	
က	Install Support Structures	Visual	Approved Drawings	PF	
4	Attach Sign Faces	Visual	Approved Drawings	<b>P</b>	
ഗ 19	Install Guide Markers	Visual	Approved Drawings	4	
9	Pavement Markers	<b>3</b> 5			
	<ul> <li>Location of markings</li> </ul>	Measurement @ 1 per 100m	Approved Drawings	H.	
<del></del>	<ul> <li>Length of traffic stripe/gap</li> </ul>	Measurement @ 1 per 500m	Approved Drawings		
	<ul> <li>Width of traffic stripe</li> </ul>	Measurement @ 1 per 500m	Approved Drawings	<u></u>	
	<ul> <li>Thickness of traffic stripe</li> </ul>	Measurement @ 1 per 500m	Approved Drawings	<u></u>	
	<ul> <li>Dimension of traffic marking</li> </ul>	Measurement @ 1 per stencil	Approved Drawings	<b>L</b>	
		or type of marking	O		
	<ul> <li>Thickness of traffic marking</li> </ul>	Measurement @ 1 per 500m	Approved Drawings	<u>н</u>	
0	CONFORMANCE GUARANTEE			Officer Responsible Code	Code
In a	In accordance with Clauses 42.3 and 11.1 of the General Conditions of Contract I Declare that:-	General Conditions of Contract I [	Declare that:-	PR Principal's Rep	<u> </u>
_	the lot conforms in all respects to the specified requirements	specified requirements			u
	any outstanding documentation will be forwarded to the Pri all non conformances have been accepted by the Principal	forwarded to the Principal by the	ncipal by the end of the following calendar month	CQR Contractors Quality Rep	ality Rep

Date:

Date:

CQR

Lot Approved

### **BITUMEN SURFACING**

ROAD:		JOB NO:		ITEM NO:		LOT NO:
<b>L</b> O <b>1</b>		2				
LOCATION:	From		То	LHS/RHS	LOT QUANTITY:	
SPECIFICATION	REFERENCE: 1	SSPECIFICATION REFERENCE: MRS 11.11, 11.12, 11.13,	', 11.17, 11.18, 11.19, 11.20, 11.21, 11.22	.20, 11.21, 11.22		

	Activity of Service	Inspection or Test Method	Specification Requirements	Officer Responsibl	Quality
		2		Ð	Ву
Н	Authority to Proceed	Inspection	As per specification	R	
7	Environmental Management	Visual - Audit	As per Environmental Management Plan (if required)	<b>4</b>	
m	Material - Paint			į	
	Bleeding	Supplier Certification	Test Certificate No	д (	-
	• Fineness }supplied &	Lab Test @ 1 per batch	Test Certificate No	# ¦	
	Visible settlement	Lab Test @ 1 per batch	Test Certificate No	Ж.	
	<ul> <li>Wet film thickness   Supplier</li> </ul>	Lag Test @ 1 per batch	Test Certificate No	7	
4	Surface Preparation	3	•	1	
200	Sweeping	Visual Inspection	Free from foreign and loose materials,	<u></u>	
			250mm clear of surface to be sprayed		
Ŋ	Supply of Materials			Ĺ	
	Cutback Bitumen – prime	Supply Certificate/Visual	Dockets + as per specification	<u>ታ</u> ¦	
	Bitumen	Supply Certificate/Visual	Dockets + as per specification	# !	
	Cover Aggregate – Quantity	Supply Certificate/Visual	Dockets + as per specification	<b>T</b>	
	<ul> <li>Cover Aggregate – Quality</li> </ul>	Lab Test Supplied/Visual	Test Certificate No	# !	
	Cutter and Additive	Supply Certificate/Visual	Dockets + as per specification	PF	
9	Surface Operation			1	
	Spread & spray rates, run length &	Spotting or Trpm's	Spray sheet + as per specification	<u>.</u>	
	width calculated	Calculations			
	Free from loose aggregate	Visual Inspection	As per specification	T.	
<del></del>	Pavement temperature	Thermometer/Visual	Temperature > 200 Celsius - spray sheet	<u>ш</u>	
•	Spray temperature	Thermometer/Visual	110 < Temperature < 35º Celsius - spray	<u></u>	
	Incorporate aggregate	Visual Inspection	sheet	<u></u>	
·	Remove excess aggregate	Visual Inspection	Roll surface as per MRS 11.11	<u>.</u>	
			Broom surface as per specification		

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of Contract I Declare that:- Its incipal by the end of the following calendar month	CONFORMANCE GUARANTEE	Officer Borneriki C. J.
llowing calendar month	accordance with Clauses 42.3 and 11.1 of the General Conditions of Contract I Declare that:-	2
ncipal by the end of the following calendar month	the lot conforms in all respects to the specified requirements	
icipal by the end of the following calendar month	any outstanding documentation will be forwarded to the Bringing by the end of the fallowing	Cotto ctore Distriction
	all non-conformances have been succeeded by the Been succeeded b	COULTACTORS QUAILTY Rep

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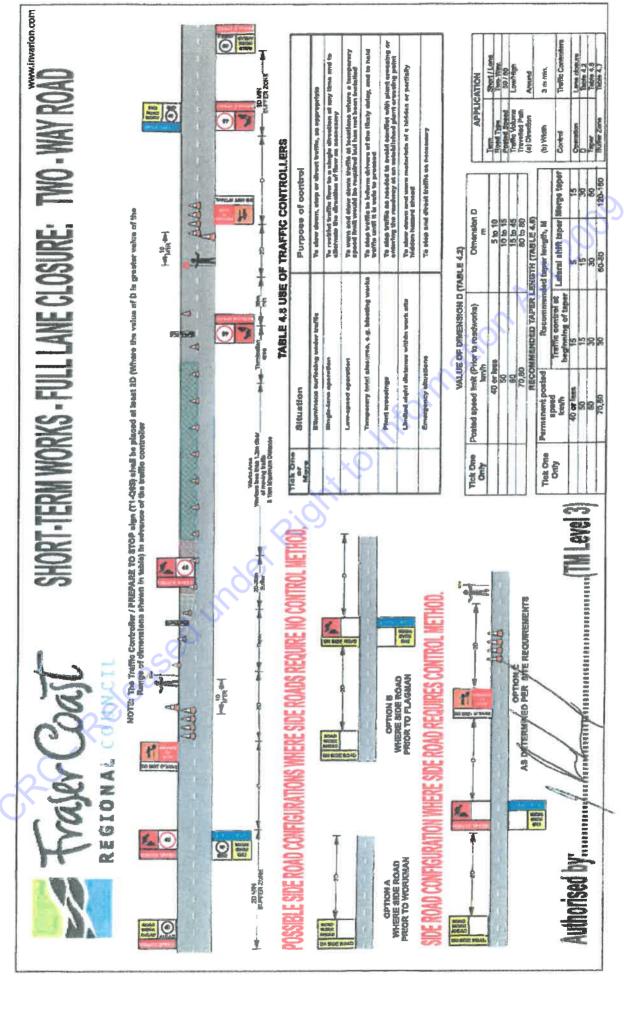
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### **ATTACHMENTS**

- Α. Project Planning Form (template docs # 2051388)
- В. Project Handover Form including Bill of Quantities. See separately bound Drawings. (template docs # 2051389)
- on Intra
  on Intra
  on Intra
  on Red Red Red Harris Red Ha C. Construction Safety Plan (template docs # 2100696) including Safe Work Method Statements and Dial Before You Dig's. (templates for SWMS's can be found on Intranet)

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NOTES - SHORT-TERM FULL LANE CLOSURE TWO-WAY ROAD (40, 50 or 60kph posted speed limit)



Revision Date: 10 October 2014

# NOTES - SHORT-TERM FULL LANE CLOSURE TWO-WAY ROAD (40, 50 or 60kph posted speed limit)

Date Start Time: Finish Time	Location
POSTED SPEED LIMIT: 40 50K 60K Scope of Works	
Instructions for Notes below: Indicate with a Tick and reasons where applicable. Diagram developed from MUTCD IF WORK IS REQUIRED ON ANY MAIN ROADS, A SEPARATE PROCESS, IS TO BE FOLLOWED IN CONSULTATION WITH SUPERVISOR.	Diagram developed from MUTCD Diagram 4. (Docs#2528007)  IN CONSULTATION WITH SUPERVISOR.
Taper lengths       (distances Table 4.6) - 15m □ 30m □	Pre-start conducted with Traffic Controllers
Sign positioning - clearly displayed, in line of sight, no hazard to vehicles or pedestrians.	Traffic control (mandatory) breaks – 15mins every 2 hours, arrangements in place for relief.
Ciam Points: 200 mil 19019 4.2,	Traffic Control safe positioning
Sign regists: 200mm (shoulder surface to bottom edge)  Delineation as per MUTCD / Cone snacings (Table 3.7 Apriles 3.0.)	Site Communications (two-way radios)
Four cones installed on centreline in advice of Traffic Control position (4.10.2). Hazard marker (T5-Q02) may be used in conjunction with 4 cones to indicate travelled path when required. (Document as on site modification)	Venicle should be parked –  (a) so it does not unduly obstruct motorists' vision of the travelled path;  (b) to leave a clear escape path for workers; and
	Business / Property accesses considered / Peak traffic times considered
Minimum lane Width Including trafficable shoulder shall be 3.0 m (see Clause 4.13.3). For widths of 6 m or more, see Diagram 11.	Regulatory signs covered/removed:
lemporary speed zone - to meet workplace or traffic safety requirements (see Clause 4.2). Remove when workers have left the work area or are no longer visible to traffic.	Temporary speed zone – Advance warning (see Clause 4.9.5) shall be provided by a buffer zone comprising either: (a) a Speed Limit AHEAD sign; or (b) a speed zone (see Table 4.7 for length of speed zone)
<b>Traffic Control</b> (maximum speed limit 60kph) – Speed reduced to 40k prior to Traffic Controller due to site conditions/driver behaviour.	Safety buffer: Shall be provided wherever the posted speed limit is 60 km/h or more.
1. Four cones installed on the centreline in advance of Traffic Controller position (see Clause 4,1 width : Driveways conflict : Driver behaviour/dangerous conditions created : Other : Other : Side road signs installed as per A : B : or C : configurations and MUTCD. (Please tick) 3.	Four cones installed on the centreline in advance of Traffic Controller position (see Clause 4.10.2). Not used due to: No centreline/insufficient road width ; Driveways conflict ; Driver behaviour/dangerous conditions created ; Other side road signs installed as per A  or C configurations and MUTCD. (Please tick)
Authorised by:	(Traffic Management Level 3)
hourly intervals, indicate times che	alterations) :
Road condition signage installed:	
Signage installed by: Si	Site Supervisor authorisation:

Revision Date: 10 October 2014

### **ATTACHMENT A - PROJECT PLANNING FORM**

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### **ATTACHMENT B - PROJECT HANDOVER FORM**

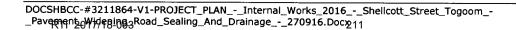
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### **ATTACHMENT C - CONSTRUCTION SAFETY PLAN**

### To include:

- Construction Safety Plan
- Relevant Safe Work Method Statements. List of Safe Work Method Statements are:
  - 1. High Risk Construction Work that is carried out in an area in which there are artificial extremes of temperature.
  - 2. High Risk Construction Work that is carried out on, in or adjacent to a road, railway, shipping lane or other traffic corridor that is in use by traffic other than pedestrians.
  - 3. High Risk Construction Work that is carried out in or near a confined space.
  - 4. High Risk Construction Work carried out on or near pressurised gas distribution mains or piping.
  - 5. High Risk Construction Work that involves a risk of a person falling more than 2 metres.
  - High risk construction work that involves demolition of an element of a structure that is load-bearing or otherwise related to the physical integrity of a structure.
  - 7. High Risk Construction Work that involves, or is likely to involve, the disturbance of asbestos.
  - 8. High Risk Construction Work that is carried out in an area that may have a contaminated or flammable atmosphere.
  - 9. High Risk Construction Work that is carried out in which there is any movement of powered mobile plant.
  - 10. High Risk Work that is carried out on a telecommunication tower.
  - 11. High Risk Construction Work that is carried out on or near energised electrical installations or services.
  - 12. High Risk Construction Work that is carried out in or near a shaft or trench with an excavated depth greater than 1.5 metres, or a tunnel.
  - 13. High Risk Construction Work that is carried out in or near water or other liquid that involves a risk of drowning
  - 14. High Risk Work that involves structural alterations or repairs that require temporary support to prevent collapse
  - 15. High Risk Construction Work that Involves Tilt-up or Precast Concrete.
  - 16. High Risk Construction Work carried out in or near chemical, fuel or refrigerant lines.
  - 17. Work performed at night.
  - 18. Work performed with common plant provide by principal contractor for use.
  - 19. Working with Hazardous Chemicals
  - 20. Protection against Falling Objects
  - 21. Working on a road or verge operating a jetpatcher.
- Dial Before You Digs



FCAC. Released under Right to Information Act 2009

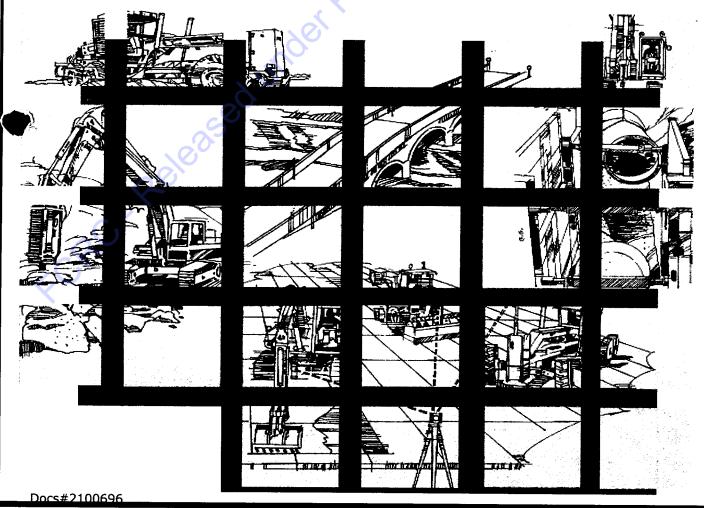
### FRASER COAST REGIONAL COUNCIL

### CONSTRUCTION WORK HEALTH AND SAFETY MANAGEMENT PLAN

### **FOR**

Shellcott Street, Toogoom

Pavement Widening, Road Sealing, and Associated Drainage
2012 Version



### **Fraser Coast Regional Council Construction Work Health and Safety Management Plan**

**FOPS** Falling Object Protection System

Residual Current Device - device that protects people against electrocution **RCD** 

**SWL** Safe Working Load FCRC Released under Right to Information Act 2009

SDS

Docs # 3211853 3 Revision 1, 27/09/2016

RTI 2017/18-003 214

d Safety Mana	
Fraser Coast Regional Council	

Pro.	ject Risks and Me	ethods of Control	l (A risk assessme	ent to gain a risk	Project Risks and Methods of Control (A risk assessment to gain a risk score, using the risk calculator, is to be carried out and documented	
, O	ACTIVITY	HAZARD TYPE (What are the hazards?)	RISK (What are the risks?)	SCORE Before controls are put in place	CONTROL MEASURE (Include provision for monitoring) (How will hazards and risks be controlled?)	SCORE after controls are put in place
<b>ન</b>	Work involving manual handling	Pushing, pulling, bending, reaching, lifting	Back injury Strains and sprains	1. 5 6 9. 5. 5. 6. 6. 1. 1. 15. 9. 11. 15. 9. 11. 15. 15. 15. 15. 15. 15. 15. 15. 15	Use mechanical means (earthmoving equipment) to minimise manual work.  Vary tasks to reduce exposure to bending and lifting. When lifting, bend legs and hold load close to the body. Workers to observe maximum weight flag points:- 20 - 55kg: mechanical assistance or team lifting should be used. Over 55kg: no worker to lift unless mechanical assistance or team lifting arrangements are made. Use appropriate PPE (e.g. gloves). Workers to follow any relevant safe working procedures. Work area to be kept tidy to avoid slips and trips. Workers to report any manual handling injuries.	7
и	High Risk Construction Work which is carried out on, in or adjacent to a road, railway, shipping lane or other traffic corridor that is used by traffic other than pedestrians. (Note: A Safe Work Method Statement is to be filled out for this work AND ATTACHED TO	Being struck by vehicles	Serious bodily injury Damage to plant and property	1.4 K. 4 K. 6 K. 8 9.	Use appropriate PPE (e.g. high visibility vests). Road signage, traffic control and lighting as per Part 3 MUTCD. Implement traffic control where high traffic volumes exist or visibility is poor. High visibility traffic cones or barricades around worksite where appropriate. Plan work to minimise disruption to established traffic flows and peaks. Locate equipment and screenings so as not to create a hazard for traffic or road plant, obscure signs or block lines of sight.	132.
Docs #	Docs # 3211853				4 Revision 1. 27/09/2016	

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ras	Fraser Coast Regional Council	nal Council		တ	nstru	Construction Work	<u>=</u>
3 a)	Outdoor Work - Exposure to	Ultraviolet radiation	Skin damage Long term		1. 2.	Wear broad brimmed hat and long sleeved shirt. Use Factor 30+ broad-spectrum sunscreen.	
	sunlight	3C)		1452	. 4. r.	workers to make use of available shade - especially during meal breaks.	74
3 b)	Exposure to excessive heat	Heat	Heat stress Heat stroke		1. 2.	Wear broad brimmed hat and long sleeved shirt Workers to make use of available shade - especially during meal breaks	
			69.50	F. 4. 2. 6.	ლ <b>4</b> . ო. ო.	Adequate supply of drinking water is available Job rotation for heavy manual handling work	3/7

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NO.	ACTIVITY	HAZARD TYPE (What are the hazards?)	RISK (What are the risks?)	SCORE Before controls are put in	CONTROL MEASURE (Include provision for monitoring) (How will hazards and risks be controlled?)	SURE monitoring) s be controlled?)	SCORE after controls are put in place
4	High Risk Construction Work that Is carried out on or near energised electrical installations or services. (Note: A Safe Work Method Statement is to be filled out for this work AND ATTACHED TO THIS PLAN.)	Electrical  Water and sewer mains, cables, Telstra, Gas etc.	Electrocution Electrical shock Property damage	1000	<ol> <li>Maintain adequate clearance from overhead cables         (minimum clearance 3 metres) and underground services.         Organise with Electricity Corporation to locate underground services before excavating.         Organise with Electricity Corporation to de-energise or protect power cables and electrical equipment where safe clearance cannot be maintained.         Never drive probes into the ground to find power cables.         Locate underground services well in advance of excavation by contacting the "Dial Before you Dig" service and/or the relevant authority. Underground services should be located during design phase.         Maintain adequate clearance from overhead and underground services.         Highlight the location of underground services with high visibility paint and/ or flags.         Never drive uninsulated metal probes into the ground to find underground services or pipes.</li> </ol>	om overhead cables and underground services. ration to locate underground ration to de-energise or ical equipment where safe 1.  Fund to find power cables. ell in advance of excavation you Dig" service and/or the d services should be located om overhead and pround services with high pround services with high probes into the ground to pes.	1136

Construction Work Health and Safety Management Plan	
Fraser Coast Regional Council	

	X	\C			5.	Barricades erected to prevent mobile plant contacting service.
		S-C /			9	Prompt notification of authority if service is damaged.
L.	Work performed	Contact with	Burns		1.	Appropriate training for personnel handling these
)	with or near	substance	Asphyxiation			substances.
	dangerous or	through	Long term		7.	Identify all dangerous/hazardous substances on site.
	hazardous	inhalation,	health		m	Obtain the appropriate SDS for substance.
	substances.	ingestion or skin	effects.		4.	Follow instructions given by manufacturer.
		absorption /			5.	Use appropriate PPE (e.g. gloves, respirator, chemical
		contact.	3			goggles).
			>		9.	Regular servicing and maintenance of equipment used with
			S			hazardous substances (eg. spray equipment).
					7.	
				2	œ.	

Proj	<b>Project Risks and Methods of Con</b> is to be carried out and documented)	<b>Project Risks and Methods of Control</b> (A risk assessment to is to be carried out and documented)	k assessment to	gain a risk sco	gain a risk score, using the risk calculator,	
o O	ACTIVITY	HAZARD TYPE (What are the hazards?)	RISK (What are the risks?)	SCORE Before controls are put in place	CONTROL MEASURE (Include provision for monitoring) (How will hazards and risks be controlled?)	SCORE after controls are put in place
6 a )	High Risk Construction Work that Is carried out in a workplace in which there is any movement of powered mobile plant.	Roll over Being struck or colliding with plant	Crushing Serious bodily injury Serious bodily injury. Damage to plant and property.	456 HS6	<ol> <li>Use plant with ROPS.</li> <li>Wear seat belt where fitted.</li> <li>Comply with manufacturer's gradient requirements.</li> <li>Follow Council and manufacturer's safe working procedures.</li> <li>Only experienced and appropriately certified / licensed operators permitted to use plant.</li> <li>Use appropriate PPE (e.g. high visibility vests).</li> <li>Use warning devices on plant.</li> <li>Road signage, traffic control and lighting as per Part 3 MUTCD.</li> </ol>	027

Docs # 3211853

Statement is to be filled out for

(Note: A Safe Work Method

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uipment so as not to create a hazard,

Implement traffic control where necessary.

Separate work activities. Keep public clear of work area. Park plant and uipment so as

4.7.7.8

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this work AND ATTACHED TO THIS PLAN.)	S S S S S S S S S S S S S S S S S S S		S	Construction Work ( lith and Safety block lines of sight or obscure signs.	Ith and Safety Management Plan t or obscure signs.	
	Falling objects	Serious bodily injury. Damage to plant and property.		<ol> <li>Use plant with FOPS.</li> <li>2.Pre-start inspection and periodic testing of lifting chains, slings and plant lifting attachments.</li> <li>Workers and public to be kept clear of objects being lifted.</li> <li>Appropriate use of PPE (eg. hard hats, high visibility jacket)</li> </ol>	ting of lifting chains, objects being lifted. high visibility jacket)	
	Noise	Hearing	der	<ol> <li>SwL of litting devices to be observed.</li> <li>Select equipment fitted with silencers or noise suppression devices.</li> <li>Driver rotation.</li> <li>Use correct PPE (e.g. ear muffs).</li> <li>4. Periodic audiometric testing of workers exposed to noisy environments.</li> </ol>	or noise suppression	
	Mechanical failure	Serious bodily injury. Damage to plant and property.	5.10	<ol> <li>Operator to complete pre-start checks and servicing.</li> <li>Operator to report any faults with plant to workshop.</li> <li>Regular servicing of plant by workshop.</li> <li>Operator to follow manufacturer's operational guidelines.</li> <li>S.</li> </ol>	and servicing. t to workshop. ational guidelines.	
				Aformation Act 2006s	9	_
				7	appropriate t aciding	

# Construction Work Health and Safety Management Plan

Proje	ct Risks and Meth	Project Risks and Methods of Control (A risk assessment to	k assessment to		re, usir.	gain a risk score, using the risk calculator, is to be carried out and documented)	
Ŏ.	ACTIVITY	HAZARD TYPE (What are the hazards?)	RISK (What are the risks?)	SCORE Before controls are put in place		CONTROL MEASURE (Include provision for monitoring) (How will hazards and risks be controlled?)	SCORE after controls are put in place
( p	Work performed with soil moisture and density gauge.	Exposure to ionising radiation.	Burns. Long term health effects.		1.5 6.4 7.0	Only trained personnel permitted to use gauge. Gauge used, stored and transported in accordance with Council safe work procedures and relevant codes of practice. Monitor radiation levels radiation workers receive. 3 metre exclusion zone around gauge for untrained workers. Routine safety inspections carried out on gauge. Radiation Safety Officer appointed.	
(c) 9:	Work performed with lasers.	Exposure to radiation.	Eye damage.	er Pilo	÷ 2	Provide training to operators. Laser safety officer to be present when using class 3B or 4 lasers. Erect warning signs. Follow safe working procedures.	
(P 9	Work performed with power equipment/ tools.	Noise. Foreign Bodies. Electrical	Hearing damage and/or loss.  Eye and face damage.  Electrocution.  Electric shock.	754	17.44 17 17.84.0 07 8	Select equipment with silencers etc. Isolate noise source. Rotate workers. Use appropriate PPE (e.g. ear muffs). Use appropriate PPE (e.g. safety glasses, face shield) Guards on tools not to be removed or modified Use residual current devices (RCD's). Maintain tools and leads in good condition. Protect leads from damage and emersion in liquids. Check equipment before use for damage. Licensed electrician to periodically test and tag electrical equipment. Equipment to have current electrical safety tag attached. Electrical repairs to be carried out only by a licensed electrician.	8
					9.		

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Proje	ect Risks and Mo	ethods of Control	(A risk assessm	ent to gain a ris	Project Risks and Methods of Control (A risk assessment to gain a risk score, using the risk calculator, is to be carried out and documented)	
NO.	ACTIVITY	HAZARD TYPE (What are the hazards?)	RISK (What are the risks?)	SCORE Before controls are put in	CONTROL MEASURE (Include provision for monitoring)  CC (How will hazards and risks be controlled?)	SCORE after controls are put in place
(P 9	Work performed with power equipment/too ls - (continued)	Vibration Dust	Tissue damage. Sprains & strains. Long term health problems	"ger bris	<ol> <li>Minimise worker exposure to vibration by considering alternative methods.</li> <li>Rotate workers.</li> <li>Lose appropriate PPE (e.g. anti vibration gloves)</li> <li>Use equipment and work procedures that minimise the generation of dust (e.g. circular saw with dust collection bag, score and snap method of cutting fibrous sheet)</li> <li>Wear appropriate PPE (e.g. respirator)</li> <li>Ensure dust containment during cleanup (e.g. wet down method or vacuum)</li> <li>Safe disposal of dust</li> <li>6.</li> </ol>	
	Bitumen Sealing	Hot bitumen. Bitumen and additive fumes.	Burns Long term health effects. Explosion.		<ol> <li>Wear appropriate PPE.</li> <li>Minimise exposure of workers to bitumen fumes and spray.</li> <li>Have appropriate first aid facilities on site including adequate amounts of fresh water for the treatment of bitumen burns.</li> <li>No smoking or naked flames within 15 metres of flammable liquids (eg. hot bitumen, bitumen cutter).</li> <li>Ensure bitumen is free of water contamination before heating.</li> </ol>	

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Construction Work Health and Safety Management Plan	If possible choose different work method that does not require persons to enter the excavation	Batter, bench or use trench shielding to prevent collapse Keep water out of trench	Keep machinery, material and soil heaps at sufficient	distance to prevent conlapse of excavation sides Implement routine inspection by experienced person		Keep people clear of loads being lifted over trench	Barricade hazardous areas using fencing and/or signage	Use appropriate PPE (e.g. hard hats)	Lifting chains and slings to be inspected prior to use	Loads must be with the SWL limits of the chain or sling	Isolate internal combustion engines (e.g. pumps)	from excavation to prevent atmospheric	contamination	If contamination exists, monitor and ventilate	atmosphere	Barricade trenches/excavations using fencing
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Ö													2	5	<u>`</u>	?
	Suffocation Serious bodily	injury				Serious bodily	injury	ر د ک	2	2	<b>\</b>	<b>)</b>				
nal Council	Trench or excavation	collapse	ر		2	Falling objects	ו מווווא מחלברום									
Fraser Coast Regional Council	High Risk Construction	Work that is carried out in	or near a shaft	or trench with	depth greater	than 1.5	metres, or a	tunnel.	(Note: A Safe	Work Method	Statement is to	be filled out for	this work AND	ATTACHED TO	I HIS PLAN.)	
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is to be carried out and documented)
, using the risk calculator,
ontrol (A risk assessment to gain a risk score, using the risk calculator, is to be carried out and documented
Project Risks and Methods of Contr

Ö	ACTIVITY	HAZARD TYPE (What are the hazards?)	RISK (What are the risks?)	SCORE Before controls are put in place	CONTROL MEASURE after after (Include provision for monitoring) are put in place	RE ols thin
					hation Act. 2009	
:			•		Revision 1, 27/09/2016	

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Fra	Fraser Coast Regional Council	nal Council		Cons	Construction Work ( ) Ith and Safety Management Plan	lan
6	High Risk	Gases	Asphyxiation	1.	Follow safe working procedures	
<u> </u>	Construction	Heat stress	Suffocation	2.		
	Work that is	<u>ح</u>	Serions			
	carried out in	2	bodily injury	<u>.</u>	Provide training in entry procedures and rescue	
	or near a	ن	Explosion	•		
	space,			<b>.</b>	Workers to complete a risk assessment and entry	
	•	2-6		2	Monitor confined space atmosphere for contaminants	
	(Note: A Safe			6.	Use appropriate safety equipment (e.g. harness,	
	Work Method		S		Rescue Master and tripod, self contained breathing	
	Statement is		2.		apparatus)	
	to be filled		2	7.	Use appropriate PPE (e.g. hard hats)	
	out for this		Ç			
_	WOFK AND			•		
	ATTACHED TO		2	<u> </u>		
	THIS PLAN.)			3		
1	High Risk	Falling	Serious	<u>-</u>	Workers not permitted to work above 2.0 metres in	4
) 	Construction		bodily injury	<u></u>	height unless an adequate fall protection system	:
_	Work that			?	(eg. safety harness, scaffolding) is provided.	
	involves a			2.	Where an elevating work platform is used, workers	
	risk of a				shall wear safety harness correctly attached to	
-	person falling				platform's anchor point.	
	more than 2			3.	Workers to use appropriate PPE (e.g. hard hats).	
	metres			-		
	(Note: A Safe					
	Work Method					
	Statement is					
	to be filled					
	out for this					
•	work AND					
	ATTACHED TO					_
	THIS PLAN.)				5	

Construction Work Health and Safety Management Plan	
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	Working with Inhalation of	Inhalation of	Minor	ī	Use power tools fitting with dust extracting/	(7110
	Concrete	crystalline silica	irritation to		minimising equipment (e.g. water red concrete saw).	saw).
		the cutting of	bodily	<u>ν (τ)</u>	Minimise crystalline silica dust if cleaning up,	
		concrete.	injury.		through the use of water.	
				4.	. Safe disposal of dust.	
		2-		·	Minimise the length of time steel hare are left protruding	- Coit
		2		- ·		bars.
		Falling on	Minor to		<ol> <li>Se protective caps over the crist of procurses over the protection of t</li></ol>	
		protruding steel	serions			
		bars.	bodily			
		Trips	injury.			
					. Use appropriate PPE, including gloves and eye protection.	tion.
				9	<ul> <li>Follow handling instructions on SDS</li> </ul>	-
		from concrete	Minor to	S		
		ביים כייים כייים	Scilous Lime to the			
		מוום כפווופוור	aut of sund			
		dust.	eyes and			
			skin. Dormatitic	2	*	

SCORE after controls are put in place	
CONTROL MEASURE (Include provision for monitoring) (How will hazards and risks be controlled?)	Only licensed electrical contractors permitted to work on electrical circuits. Appropriate permits are obtained from the Electricity Corporation. Electrical contractor when working on electrical circuits uses lockout procedures.
SCORE Before controls are put in place	3 2
RISK (What are the risks?)	Electrocution. Electric shock.
HAZARD TYPE (What are the hazards?)	Electrical
ACTIVITY	Installation of underground electrical cabling.
NO.	12.

1. Follow safe work practices and Safe Work Method Statement.	Ont to Information Act 2009
1. Follow s	ight to luito
Serious serious	
High Risk Collapse Construction Work that involves structural alterations or repairs that require temporary support to prevent collapse. (Note: A Safe Work Method Statement is to be filled out for this work AND ATTACHED TO THIS PLAN.)	
13. E a a a a a a a a a a a a a a a a a a	

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Fra	Fraser Coast Regional Council	nal Council		Col	nstru	Construction Work Health and Safety Management Plan	and and a
14	High Risk	Collapse	Death or		1.	Follow safe work practices and Safe Work Method	
<u> </u>	Construction	Falling objects	serious injury		0	Statement: Demolition is to be carried out in accordance with the	
	Work that	Aspestos			;	requirements of Australian Standards.	
	involves	cuptances					
	demolition of	Sabstalices					
	an element of	<u> </u>					
	a structure	2-					
	that is load –	2					
	bearing or		2				
	otherwise		?				
	related to						
	physical		2				
	integrity of		5				
	the structure.						
	(Note: A Safe		5				
	Work Method			2			
	WOLK HELIOO						
	Statement is			S			
	to be filled out						
	for this work			3			
	AND ATTACHED						
	TO THIS PLAN.)			S	X		
!	Hiah Risk	Lung disease	Death or		X.X	Follow safe work practices and Safe Work Method	
15.	Construction	•	serions illness		X \	Statement.	
					7	Asbestos management and removal is to be carried out in	
	Work that					accordance with the WH&S Regulations and codes of	
	involves, or is					practice for asbestos.	
	likely to						
	involve, the					<b>5</b> 5	
	disturbance of						
	Asbestos.						<u></u>
	(Note: A Safe					Š.	
	Work Method						
	Statement is					50	
	to be filled out						
· · ·	for this work						
	AND ATTACHED						
	TO THIS PLAN.)						

Fras	Fraser Coast Regional Council	Construction Work Health and Safety Management Plan	
18.	High Risk Construction Work that is carried out in or near water or other liquid that involves a risk of drowning. (Note: A Safe Work Method Statement is to be filled out for this work AND ATTACHED	Serious injury 1. Follow safe work practices and Safe Work Method Serious injury Statement.	
19	(Note: A Safe Work Method Sta High Risk Construction Work that:	(Note: A Safe Work Method Statement is also to be filled out for high risk activities which include: High Risk Construction Work that:	
	☐ Is carried out on, in or☐ Involves a risk of a per	Is carried out on, in or adjacent to a road, railway, shipping lane or other traffic corridor that is used by traffic other than pedestrians. Involves a risk of a person falling more than 2 metres	estrians.
	☐ Is carried out on a telecommunication tower☐ Involves demolition of an element of a struct	Is carried out on a telecommunication tower Involves demolition of an element of a structure that is load –bearing or otherwise related to physical integrity of the structure.	ų.
	<ul><li>Involves, or is likely to involve, the disturbant</li><li>Involves structural alterations or repairs that</li></ul>	Involves, or is likely to involve, the disturbance of Asbestos. Involves structural alterations or repairs that require temporary support to prevent collapse.	
	<ul><li>Is carried out in or near a confined space.</li><li>Is carried out in or near a shaft or trench</li></ul>	with	
	☐ Involves the use of explosives.☐ Is carried out on or near press	Involves the use of explosives. Is carried out on or near pressurised gas distribution mains or piping.	
	☐ Is carried out on or nead ☐ Is carried out on or nead	s carried out on or near chemical, fuel or refrigerant lines.	
	<ul><li>Is carried out in an area that ma</li><li>Involves tilt-up precast concrete</li></ul>	y have a con	
	Is carried out in a workplace in which there is Is carried out in an area where there are artifulated in the second out in or near water or other liquid	Is carried out in a workplace in which there is any movement of powered mobile plant.  Is carried out in an area where there are artificial extremes of temperature  Is carried out in or near water or other liquid that involves a risk of drowning.	
	Involves diving work.  THESE "completed "SAFE WORK METHOD ST		
<b>Wa</b> was	Warning: Under no circumstances are any other waste water) to be interfered with or moved with	<b>Warning</b> : Under no circumstances are any other authorities (owners) utility services (e.g. electricity, gas, telephone, water, waste water) to be interfered with or moved without the authorities written consent.	er,

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				ı ———						
SCORE after controls are put in place										
CONTROL MEASURE (Include provision for monitoring) (How will hazards and risks be controlled?)										
SCORE Before controls are put in place			90	4	<b>S</b>					
RISK (What are the risks?)	3	,0								
HAZARD TYPE (What are the hazards?)										
ACTIVITY										
, O	-									
	ACTIVITY (What are the hazards?) the risks?)  HAZARD TYPE RISK Before controls (What are the hazards?)  ACTIVITY (What are the hazards?)  HAZARD TYPE CONTROL MEASURE CONTROL MEASURE (What are the hazards and risks be controlled?)	ACTIVITY (What are the hazards?) (What are the hazards?) (What are put in hazards and risks be controlled?)	ACTIVITY (What are the hazards?) the risks?) the risks?	ACTIVITY (What are the hazards?) the risks?) the risks?) place (How will hazards and risks be controlled?)	ACTIVITY (What are the hazards?) the risks?) the risks?) place controlled?)  ACTIVITY (What are the hazards?) the risks?) are put in hazards and risks be controlled?)  ACTIVITY (What are the hazards?) the risks?) place (Include provision for monitoring)  ACTIVITY (What are the hazards?) the risks?) place (How will hazards and risks be controlled?)	ACTIVITY (What are the hazards?) the risks?) are put in place the risks?) place controlled?)	ACTIVITY (What are the hazards?) (What are the hazards?) (What are the hazards?) (What are put in hazards and risks be controlled?) (How will hazards and risks be controlled?) place	ACTIVITY (What are the hazards?) the risks?) are part in hazards?) the risks?) place (Include provision for monitoring) hazards and risks be controlled?)	ACTIVITY (What are the hazards?) the risks?) the risks?) the risks?	ACTIVITY  ACTIVITY  ACTIVITY  ACTIVITY  ACTIVITY  ACTIVITY  ACTIVITY  (What are the (what are the risks?) Age controlled?)  ACTIVITY  (What are the (what are the risks?) Age on the risks?) Age of the risks?)  ACTIVITY  (What are the (what are the risks?) Age on the risks be controlled?)  ACTIVITY  (What are the (what are the risks?) Age on the risks be controlled?)  ACTIVITY  (What are the (what are the risks?) Age on the risks be controlled?)  ACTIVITY  (All or will hazards and risks be controlled?)  ACTIVITY  (All or will hazards and risks be controlled?)

#### 3.0 Responsibilities

# 3.1 Person Conducting the Business or Undertaking (PCBU) / Chief Executive Officer

The Person Conducting the Business or Undertaking (PCBU) / Chief Executive Officer is responsible for any outcomes from hazards or risks associated with the organisation.

#### 3.2 Principal Contractor

The Principal contractor is responsible for any outcomes from hazards or risks associated with the construction work.

### 3.3 Directors/ Executive Managers/ Managers

Directors / Executive Managers / Managers are responsible for ensuring the development and implementation of management systems, plans, policies and procedures.

#### 3.4 Work Health and Safety Advisor

The Work Health and Safety Advisor is directed by management and responsible to ensure compliance with legislation by all workers.

#### 3.5 Supervisors

Supervisors are responsible for:-

- Ensuring that the Construction Work Health and Safety Management Plan and Safe Work Method Statements are fully implemented in accordance with Work Health and Safety Legislation.
- Ensuring that workers, contractors/ sub-contractors, visitors and volunteers at the
  worksite are aware of and comply with the Construction Work Health and Safety
  Management Plan, Safe Work Method Statement and any other relevant Council policies
  and procedures
- Ensuring risk management processes are followed and risk assessments are conducted and documented.
- Ensuring that hazard inspections are conducted on a regular basis and that any hazards found are rectified quickly.
- Ensuring that all incidents, accidents and injuries are recorded and reported to the Work Health and Safety Advisor.
- Checking that workers and contractors/ sub-contractors under their control are trained, competent and have the relevant certificates.
- Monitoring general health and safety compliance on the worksite. They will also be responsible for consulting with any worker regarding health and safety issues.
- Conducting or organise pre-work meetings/ discussions with workers and any contractors/ sub-contractors to discuss health and safety issues (eg. Construction Work Health and Safety Management Plan) relevant to the project.
- Requesting a Safe Work Method Statements from any contractors/ sub-contractors conducting high-risk construction work at the worksite.

- Where applicable, assess, monitor and review Safe Work Method Statements provided by contractors/ sub-contractors.
- Prepare and maintain Fraser Coast Regional Council's Construction Work Health and Safety Management Plan.
- Forward Council's Construction Work Health and Safety Management Plan to any contractors/ sub-contractors involved in the project.
- Do periodic, documented inspections of the site and advise managers, supervisors and any contractors/ sub-contractors of the level of compliance with policies, procedures and work practices.
- Where required, Investigate any work health and safety concerns, incidents and injuries at the worksite.

#### 3.6 Workers

Workers are responsible for:

- Following any work health and safety instructions and comply with the Construction Work Health and Safety Management Plan, Safe Work Method Statements and any other relevant Council policies and procedures.
  - Informing the Supervisor of any work health and safety concerns or problems;
  - Ensuring risk management processes are followed and risk assessments are conducted and documented.
  - Reporting all identified hazards and risks to their Supervisor; and
  - Taking reasonable care to ensure that they do not place themselves or others at risk of injury or illness.

#### 3.7 Work Health and Safety Committee

A Work Health and Safety Committee is available. Any work health and safety issues occurring at the worksite, including injuries and incidents, shall be referred, in the first instance to the Supervisor and then to the respective Health and Safety Representative.

#### 4.0 Contractor/ Sub-Contractor Management

- Any contractors/ sub-contractors engaged by Fraser Coast Regional Council on this
  project need to fulfil the following requirements: -Safe Work Method Statement for any
  high-risk activities to be conducted at the workplace.
- Before work starts, meet with Fraser Coast Regional Council's Depot Health and Safety Representative (where elected) and job Supervisor to discuss the projects health and safety requirements, the contractor's/ sub-contractor's Safe Work Method Statement and any other specific information relating to the contractor's/ sub-contractor's activities.
- Make reasonable additions to the Safe Work Method Statement as requested by Fraser Coast Regional Council.
- Contact Fraser Coast Regional Council's Work Health and Safety Advisor immediately following any incident, injury, near miss or emergency at the worksite.
- Discuss with Fraser Coast Regional Council's Work Health and Safety Advisor any work health and safety activity or risk identified that cannot be managed.
- Conduct work activities in a safe manner and in accordance with the requirements of Fraser Coast Regional Council, Safe Work Method Statements and work health and safety legislation.

A register of contractors/ sub-contractors used in this project shall be maintained in the *Contractor/ Sub-contractor Register* (see Appendix 1).

Contractor's/ Sub-contractor's Safe Work Method Statement shall be formally reviewed to ensure they comply with the requirements of the Work Health and Safety Regulations.

Fraser Coast Regional Council's worksite supervisor and Council Work Health and Safety Advisor will conduct regular inspections to review the Contractor's/ subcontractor's work health and safety performance.

Fraser Coast Regional Council will take the following action for any health and safety issues identified at the worksite: -

- For minor issues the contractor/ subcontractor will be given a verbal direction indicating
  what the issue is and what needs to be done to resolve the issue. The Council worker
  giving this direction should note the details in their diary.
- For major health and safety concerns where there is imminent risk to a worker or other person, the contractor/ subcontractor will stop work. Work will not recommence until the contractor/ subcontractor has put adequate controls in place.
- For ongoing health and safety non-compliances of a high-risk nature, contractors/ subcontractors may be directed to cease work in accordance with a breach of the contract. (Where this occurs, the non-compliance will be placed in Council's Contractor Performance Register).

#### 5.0 Site Inspections

Council's worksite supervisor will conduct documented work health and safety inspections of the project. These inspections shall be conducted on at least a fortnightly basis using the WH & S Site Inspection Checklist (refer to Appendix 2).

Council's Work Health and Safety Advisor will also regularly monitor the project's work health and safety performance and make recommendations where appropriate.

#### 6.0 Public Safety/Access and Workplace Security

To ensure the safety of the public at our worksite, Fraser Coast Regional Council will: -

- Ensure work is conducted in accordance with the Construction Work Health and Safety Management Plan and Safe Work Method Statements.
- Ensure all roadworks are signed in accordance with Queensland Transport's, *Manual of Uniform Traffic Control Devices Part 3 Works on Roads*.
- Display other appropriate safety signage at the worksite (eg. "Construction Site Do Not Enter Authorised Personnel Only").
- Barricade trenches and excavations where there is a risk to the public exist.
- Where appropriate for public safety, use a spotter to guide vehicles and equipment reversing onto or off the worksite.
- Ensure that members of the public and non authorised persons do not enter the construction work area.

The person with management or control of a workplace at which construction work is being carried out must ensure so far as is practicable that the workplace is secure from unauthorised access and must have regard to matters including:

- Risks to health and safety arising from unauthorised access to the workplace
- · The likelihood of unauthorised access occurring; and

• The extent that where unauthorised access to the workplace cannot be prevented – how to isolate hazards within the workplace.

Examples of how public safety, access and security will be controlled will be by the use of lockable perimeter fencing where applicable, locking electrical switchboards, securing fuels and hazardous substances, locking mobile plant and safe storage of keys and safe storage of plant and equipment.

# 7.0 Common Plant and Equipment

Fraser Coast Regional Council will provide the following plant and equipment: -

• Signage - erect appropriate roadworks and safety signage at the worksite.

# 8.0 Housekeeping

Housekeeping is to be maintained at a high standard.

#### 9.0 Facilities

Facilities are to be provided on the work site and they shall meet the requirements of the Code of Practice – Managing Risks in Construction Work

### 10.0 Safe and Healthy Work Environment

A safe and healthy work environment shall be maintained at all times. This can be achieved through items like, supplying the required amenities, lighting ,the provision of protection of workers in adverse weather conditions, protection against solar ultraviolet radiation, provision of safe access and egress for both plant an people, having an emergency plan and ensuring everyone is aware of what to do in an emergency, carrying out risk assessments, keeping the workplace clean. Further information on these issues can be found in the Code of Practice – Managing Risks in Construction Work.

11.0 Management of Falls and Falling Objects and High Risk Construction Work
The risk of a person or object falling on a construction site shall be controlled. Methods of
control can be found in the Code of Practice – Managing Risks in Construction Work.

# 12.0 Provision and Maintenance of a Hazardous Substance (chemicals) Register, Safety Data Sheets and Hazardous Substance Storage

A hazardous substance (chemicals) register and current safety data sheets are to be provided and maintained,

Hazardous substance storage is to be in accordance with the requirements of both the Code of Practice – Managing Risks in Construction Work and the Code of Practice – Managing Risks of Hazardous chemicals.

# 13.0 Safe Use and Storage of Plant

Plant and plant storage is to be in accordance with the requirements of both the Code of Practice – Managing Risks in Construction Work and the Code of Practice – Managing the Risks of Plant at the Workplace.

are to be carried out in a

#### 14.0 Traffic Management Plans

Traffic management plans for both on site and off site are to be available. These plans are to be completed in accordance with Queensland Transport's, *Manual of Uniform Traffic Control Devices Part 3 – Works on Roads*.

#### 15.0 Essential Service Information

DBYD locations are to be made as well as Locations of services on site and locations marked on the ground. Pot holing is to be undertaken to ascertain the locations of underground services should there be a need to dig near an underground service.

## 16.0 Competencies, Licences and Training to Undertake Work

Plant, and equipment will not be operated on site by anyone who does not hold the relevant competency, licence and training for the particular piece of equipment.

Proof of competency or certificate to operate is to be available and produced when requested.

#### 17.0 Site Rules

All workers and where applicable contractors and sub-contractors must ensure they follow the following site rules:

- A risk management approach shall be used to prevent injuries, near misses, property damage and other business losses.
- Ensure work is conducted in accordance with the Construction Work Health and Safety Management Plan and where applicable, the Safe Work Method Statements.
- All incidents, injuries and emergency situations must be reported to the site supervisor as well as your supervisor;
- Ensure all roadworks are signed in accordance with Queensland Transport's, *Manual of Uniform Traffic Control Devices Part 3 Works on Roads*.
- Workers must wear the correct personal protective equipment and use the appropriate safety equipment - as per Construction Work Health and Safety Management Plan, Safe Work Method Statements, material safety data sheets or manufacturer's recommendations.
- Work areas must be kept tidy and access ways must be kept free of hazards;
- No alcohol or illegal drugs permitted on site;
- Any person found affected by alcohol or drugs will be asked to leave the site;
- Before using or storing any hazardous or dangerous goods, a copy of the substance's material safety data sheet is to be given to the site supervisor;
- All personnel using plant and equipment are to hold the appropriate licence/ certification and be adequately trained in its use.
- Safety guards are not to removed from equipment unless it is for an approved procedure (eg. maintenance);
- All portable electrical equipment is to have a current electrical safety tag attached to the cord (the testing interval for construction equipment is not to exceed 3 months).
- Electrical cords and equipment shall be protected from damage and immersion in water.
- Piggyback leads and double adaptors are not to be used on site.
- Fall control measures shall be used where a person could fall greater than 2.0 metres.
- Only properly trained people with the appropriate equipment shall enter confined spaces.
- Safety signage must be complied with.
- Trenches and excavations deeper than 1.5 metres shall be shored, battered or benched to prevent collapse.
- Trenches and excavations shall be adequately managed (eg. regular inspections, adequate shoring) to minimise the chance of collapse;
- Underground and overhead hazards (eg. electrical cables) shall be identified prior to work commencing on the site; and
- Use loadshifting equipment in preference to manual handling where practicable.

# 18.0 Emergency Preparedness

Emergency contact details, the evacuation process and a list of trained first aid persons or locations where first aid may be obtained are contained on the *Emergency and Evacuation Information Sheet* (Appendix 3). This information sheet should be displayed at the worksite where practicable.

# 19.0 Reporting Injuries and Incidents

Where a work injury, illness, incident or near miss occurs:-

- Injured worker is to obtain first aid:
- Worker and worker's supervisor to complete WH&S form 1, titled "Injury/Incident/ Near Miss and Hazard Form".
- Incident to be investigated by worker's supervisor and/or Work Health and Safety Advisor.
   Investigation results to be returned to the Council Work Health and Safety Advisor (WHSA).

Where a notifiable incident, serious injury or illness or dangerous incident has occurred at the worksite:-

- Council's Work Health and Safety Advisor, Chief Executive Officer, Director, Department Executive Manager and WHSA shall be notified immediately;
- The Council Work Health and Safety Advisor shall notify the Worksafe Queensland immediately. (The WHSA is the only authorised person in Council who is approved to notify Worksafe Queensland of any notifiable incident, serious injury or illness or dangerous incident.
- The form No. 3 shall be completed and forwarded to Worksafe Queensland immediately.
- The person with management or control of the workplace at which a notifiable incident
  has occurred must ensure that the site where the incident occurred is not disturbed until
  an inspector arrives at the site or any earlier time that the inspector directs. (Action to
  assist an injured person, remove a deceased person, or that is essential to make the site
  safe or to minimise the risk of a further notifiable incident or that is associated with a
  police investigation or for which an inspector or the regulator has given permission are
  acceptable).

Note: reference to a site includes any plant, substance, structure or thing associated with the notifiable incident.

# 20.0 Appendices

Fraser Coast Regional Council will use the following forms to manage and record the work health and safety performance during this project.

These appendices include:

- Appendix 1 Contractor/ Subcontractor Register;
- Appendix 2 Site Inspection Checklist:
- Appendix 3 Emergency and Evacuation Information;
- Appendix 4 Hazardous Substance Register;
- Appendix 5 Employees with First Aid Training.
- Appendix 6 Risk Assessment Calculator
- Appendix 7 Workplace Specific Safety Induction form.

Appendix 1

# **Contractor/ Sub-Contractor Register**

Project Name:						
Scheduled Start:	1	1	Scheduled Completion:	1	1	000

Contractor/	General Induction	Safe	Safe Work Method Statement						
Sub-Contractor	Evidence? Yes / No	Required? Yes / No	Received? (If required)	Approved? (If required)					
			<i>x</i> 0 <sup>(1)</sup>						
		- 20							
	1100								
	60								
50									
CC									
Α,									

Instruction issued to personnel

# Fraser Coast Regional Council

Appendix 2

Project : _ Person Ins	 pectin	FLANK	5	spection Chec	klist	t
RATING 🗹 Acceptable			NA	Not Applicable	R	Rectified during inspection
COLUMN	×	Rectification w	ith 24 h	rs required	S	Instruction issued to personnel

			Τ	<del></del>	
ITE	EM	RATING	ITEN		RATING
1.	Previous inspection items appropriately actioned?	NA	16.	Soil density and moisture gauge – hazards controlled?	NA
2.	All contractor details contained in Contractor Register?		17.	Appropriate PPE being worn?	
3.	All relevant contractor Safe Work Method Statements reviewed and approved.		18.	Safe portable power equipment and tool use?	MA
4.	All on-site personnel have had general safety inductions?	11	19.	Adequate guarding of tools and equipment?	/
5.	Emergency and evacuation information displayed?	NA	20.	Hot bitumen use – hazards controlled?	NA
6.	Adequate safety signage displayed? Adequate road works signage and traffic control?		21.	Hazards from laser use controlled?	NA
7.	Amenities are available for all workers. (see Construction code)	2//	22.	Confined spaces – correct procedures followed?	NA
8.	Exposure to excessive sunlight – hazards controlled?	//	23.	Working at height – fall hazards controlled?	VA
9.	Exposure to excessive heat – hazards controlled?		24.	Electrical cords protected and tagged? (3 Monthly tests)	VA
	Adequate clearance maintained between plant and overhead electrical cables?		25.	Residual current devices used and tested before use?	NA
	Location of all underground and above ground services communicated to site personnel?		26.	Trenching and excavation – procedures followed and hazards controlled?	
	Safe use and storage of hazardous chemicals?	NIA	27.	Adequate barricading of excavations and trenches?	1
	Hazardous chemical register correct?	NA	28.	Manual handling minimised where possible.	
<u>X</u>	SDS available for hazardous chemicals?	NIA	29.	Trip and slip hazards controlled?	
	Earth moving plant hazards controlled?		30.	Safe Work Method Statements being followed?	
mjun	lousekeeping practices are to be checked to es do not occur. Were workers provided with irements?	ensure the li	kelihoo on how	d of slip, trip and falls or musculoskeletal to comply with the housekeeping	

Appendix 3

# Fraser Coast Regional Council

# **Emergency and Evacuation Information**

Fraser Coast Regional Council CONTACT	S
Council Work Health and Safety Advisors	Name: Jackie Curtis: Phone: 0409 587 684 Peter Cherritt: Phone: 0448 041 997
	Name: J LASSOCO Phone: 0409316.359
Health and Safety Representative (Where elected)	Name:
FIRST AID	
Refer to Appendix 5 for the names of emplo	yees with first aid training.
EMERGENCY RESPONSE	×O
Emergency – Police, Fire or Ambulance	Phone: 000
	If a phone is unavailable use the two way radio to relay emergency information.
All injuries and incidents must be reported the Health and Safety Advisor.	o the site supervisor, and the Council Work
Depending on the severity of the incident, the contacted by Council's Work Health and Sa	ne following authorities may need to be afety Advisor.
OTHER AUTHORITIES	
Worksafe Qld	Phone: 1300369915
20	

#### **Evacuation Process**

- 1. Upon discovery of a fire, bomb or other threatening situation, the area shall be evacuated.
- Immediately notify the relevant emergency service.
- 3. Encourage employees and visitors to remain calm and orderly while they proceed to the designated evacuation assembly point.
- 4. If safe to do so, try to extinguish the fire with the appropriate fire equipment. Remember do not use water fire equipment on electrical or flammable liquid fires.
- 5. Shut down any plant or equipment.
- 6. Never re-enter a burning building or vehicle.
- 7. Remain upwind of any noxious smoke or fumes given off by the fire.
- 8. Keep the public clear of the threatening situation through the use of traffic control, etc.
- 9. Do not leave the evacuation assembly point until you have been accounted for.

Appendix 3

# **Emergency and Evacuation Information**

# **Trench Rescue Procedure**

- 1. Immediately contact the ambulance and Queensland Fire and Rescue Service.
- Send for earth moving equipment you consider necessary to release the trapped worker.
- Try and locate the victim looking for signs such as tools or a shovel.
- Clear all unwanted workers away from the area.
- 5. If possible, batter the sides of the excavation in the collapsed area or insert shoring where possible to protect the victim and rescuers.
- 6. Remove the collapsed soil with shovels or, if it is a very deep excavation, with a machine. If a machine is used, take extreme care to avoid further injury to the victim.
- 7. <u>Do not stand on top of the collapsed soil directly over the victim</u>, as this will increase pressure on the buried worker.
- 8. Rescuers should wear lifelines, which extend to the surface.
- 9. When rescuers are near the victim, hands should be used to remove the soil if possible. If shovels have to be used, these are to be used with caution.
- When the victim is located, clear soil from head and chest, and check for breathing and a pulse.
- 11. If breathing has stopped, start Expired Air Resuscitation (EAR). Where breathing has stopped and pulse is absent, start Cardio-Pulmonary Resuscitation (CPR).
- 12. Check for injuries and apply first aid where necessary.
- 13. Unless there is danger to the victim and the rescuers, avoid unnecessary movement of the injured person. Where the injured person must be moved due to safety concerns (eg. a danger from flooding, risk of further excavation collapse), rescuers should support the victim's head and spine.
- 14. Provide assistance to emergency personnel when they arrive.

# Worker Trapped in a Harness Following a fall

If the worker cannot be rescued safely by available onsite workers and/ or if the worker has been injured: -

- 1. Immediately contact Queensland Fire and Rescue Service and Ambulance by telephone (000) or by 2-way radio, relaying the message through the office.
- 2. Due to the danger of suspension trauma from the fall the worker trapped in the harness should be encouraged to maintain leg activity to prevent blood pooling in the legs.

# Plant or Machinery Worker Coming into Contact with Electrical Cables

- 1. Immediately contact Ergon Energy and advise them of the situation.
- 2. Contact relevant emergency services (ie. Police, Fire or Ambulance).
- 3. The operator is to remain in the cabin or on the equipment until the power is isolated or the plant/ machine is driven free of the cables.
- 4. All people are to remain at a safe distance from the plant/ machine, its load and any damaged or fallen electrical cables until the electricity has been disconnected.
- 5. Rescue attempts to free the trapped or injured operator **shall not be made** until Ergon Energy isolates the power or the machine/ plant is clear of the electrical cables. The area is to be cordoned off to prevent further injury.
- 6. Electrical contact is required to be investigated and reported to the Regulator/Worksafe Queensland.

Appendix 3

# **Emergency and Evacuation Information - continued**

# Damage to the Soil Moisture and Density Gauge

- 1. Cordon off the area around the damaged gauge minimum distance from gauge should be six (6) metres.
- 2. Contact the Main Road's Radiation Safety Officer and notify them of the details.
- 3. The Radiation Safety Officer is to conduct a radiation survey around the gauge and compare the results with previous monitoring results.
- 4. If the radiation measurements are not significantly different and the radioactive substance is in the shielded position, the gauge is to be returned to the radioactive materials store.
- If the measurements differ significantly from the established values, or the radioactive substance cannot be returned to the shielded position, the Radiation Safety Officer should determine the course of action to be taken to render the situation safe (eg. placing additional shielding over the gauge). Pending advice from the radiation safety officer, access control must be maintained.
- 6. The Radiation Safety Officer is to immediately notify the possession licensee and the Chief Executive of Queensland Health of the incident.
- 7. The gauge involved in an incident is not be used again until the Radiation Safety Officer confirms the safety of the gauge by obtaining a certificate of compliance for the gauge from an appropriately accredited person.
- 8. The possession licensee and the Chief Executive of Queensland Health are to be immediately advised by the Radiation Safety Officer if a radioactive substance is unaccounted for.



**Project Name:** 

Appendix 4

# Fraser Coast Regional Council

# Hazardous Chemical (Substance)/Dangerous Goods Register

Product Name	Approx. Quantity	DG Class	Location/ Use?	SDS Provided?Employees trained in SDS/Chemical use? Yes/No
				dio.
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<b>(</b> )				

NOTE: It is mandatory that Safety Data Sheets be provided on the job site



Appendix 5

# ON SITE EMPLOYEES/CONTRACTORS WITH FIRST AID TRAINING

		Name	SC, L		
1					
2			Mail		
3	KO()				
	Location wher	OR re first aid will be	provided		
1	CA	24 000			
2					
	.,,,				
	69				
	EMERGENCY	TELEPHONE NUI	MBERS		
Worksafe Qld Radiation Hea	rmation Centre I alth	Hervey Bay Maryborough	000 41206666 41228222 131 126 1300369915 (07) 3406 8000		
Council Work	K Health and Safety		ague: Phone: 0419722820		

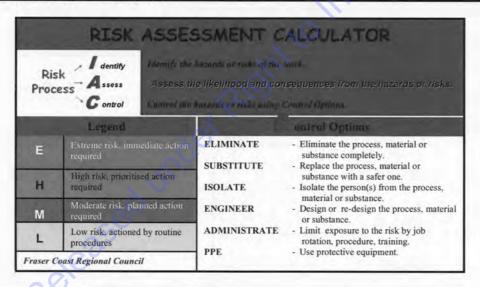
Note: Consultation must take place on who is to provide first aid. Either Council, a contractor or other provider can provide first aid through consultation on a construction project.

#### **Risk Assessment Calculator**

# High Eliminate Eliminate the process, material or substance completely. Substitute Replace the process, material or substance with a safer one. Isolate Isolate the person(s) from the process, material or substance. Engineer Design or re-design the process, material or substance. Administrate Limit exposure to the risk by staff rotation. PPE Use personal protective equipment.

**Note:** When deciding on control measures using the 'Hierarchy of Control', always evaluate your control options from a *high* to a *low* measure. PPE should always be your last resort when trying to control a risk or hazard in the workplace.

#### RISK ASSESSMENT CALCULATOR



	Consequence	ces			
Likelihood	Insignificant No Injury, 0 - low \$ loss	Minor First Aid Injury, low- medium \$ loss	Moderate Medical Treatment medium -high \$ loss	Major Serious Injuries, major \$ loss	Catastrophic Death, huge \$ loss
Almost Certain is expected to occur at most times	H - 40	H - 48	E - 72	E - 84	E - 100
Likely will probably occur at most times	M - 24	H - 44	H - 56	E - 80	E - 96
Possible might occur at some time	L - 12	M - 28	H - 52	E - 76	E - 92
Unlikely could occur at some time	L-8	L - 20	M - 36	H - 64	E - 88
Rare may occur in rare circumstances	L-4	L - 16	M - 32	H - 60	H - 68

Appendix 7

# Fraser Coast Regional Council

### **Workplace Specific Safety Induction Form**

## Worker/ Contractor/ Sub Contractor/Visitor Workplace Specific Induction

**Project Name:** 

Shelloot St

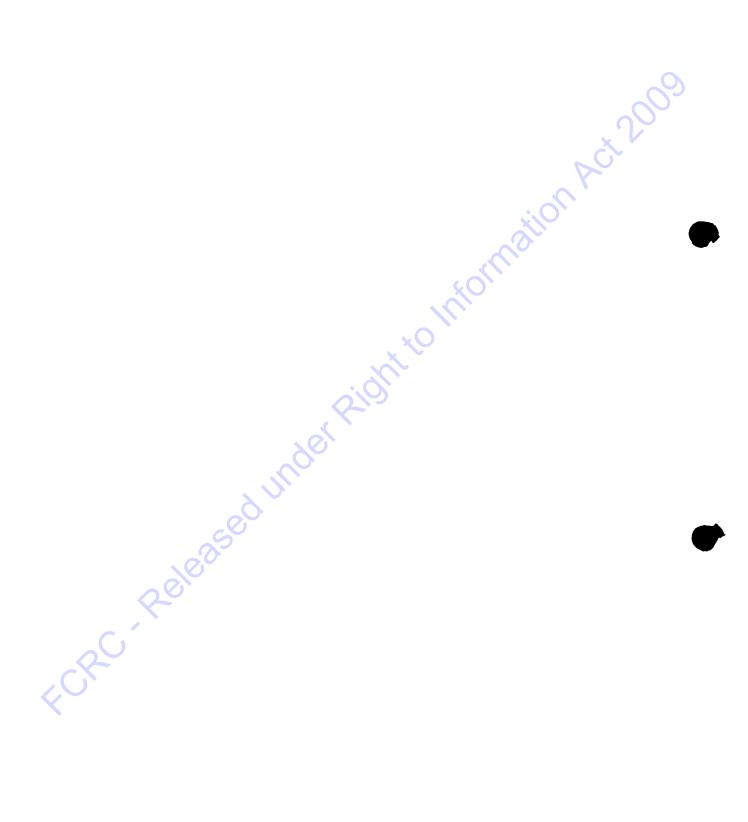
Note: if a person is to go on to the construction work site they must either have a Site Specific Safety Induction or be accompanied (at all times) by a person on behalf of the principal who has had a safety induction specific to the site.

No	Worker/ Contractor/ Sub Contractor/Visitor Name	Date Inducted	Name of Trainer/Person doing the induction	Signature of Worker/ Contracto Sub Contractor/Visitor/
1	T PROFOLD	6-3-17	Tho.seo	12/1
2	alica Murdocl	6-3-17	×0)1	conce mudou
3	Kash Grimstone	7-3-17	Alicia	Most
4	Jason Wellington	7-347	Alicia	Talley
5	1kim Empson	7-3-17	Alicia.	16
6	pal muster	7.3.17	( - '	V:Yh
7	CARY POOP)	7-3-17	ALICIA	Belle
8	VARIAN NIELSEN	7-3-17		
9	Dany Trikky	7-3-17	Alicia	
10	SEFF PETERS	7-3-17	ALICIA	39/2
11	Sim cozens	7-3-17	ALICIA	4
12	MALCOLM ZIPF	7-3-11		har zild
13	ROBERT AMBROSE	7-3-17	ALICIA	A
14	PAUL COOPER	7-3-17	PAUL	W/

Project Name: Shell cot St

Note: if a person is to go on to the construction work site they must either have a Site Specific Safety Induction or be accompanied (at all times) by a person on behalf of the principal who has had a safety induction specific to the site.

No	Worker/ Contractor/ Sub Contractor/Visitor Name	Date Inducted	Name of Trainer/Person doing the induction	Signature of Worker/ Contractor/ Sub Contractor/Visitor
15	BAJSON WORTHLUNTON	7-3/7	ALICIA	a constant of the constant of
16	Chris Cecil	7-3-17	ALICIA	Fecil
17	JIM PENDA	8-3-17	v office	NO.
18	Haron Broom	W //	, no 11	Ando 1
19	Oxfor draidon	9/5/17	*CO	ddydd
20	R. Lewis.	7/3/17	1 .	M
21	13 Machlan	14/3/17		Buladlar
22	Nothan S	13/3/17	L 1	B-
23	David braings	17-3-17	((	
24	P1:11 6	-	+	Herry .
25	Jonathan Thomas	16/3/17	ALICIA -	Momo
26	DENIS VELLA	\(\)		orde
27	Ada Hondley	30/5/17	Shave	M
28	Eyether MKKIN	1,	Clopen	MA
29	Argus Rac	N.	MAN	all
30	Chiller	( )		Char



# FRASER COAST REGIONAL COUNCIL SAFE WORK METHOD STATEMENT

High Risk Construction Work that is carried out on, in or adjacent to a road, railway, shipping lane or other traffic corridor that is in use by traffic other than pedestrians.

, , ,	<b>`</b>	Toggoon	
Work Location:	The Solution Silver		••••••
GENERAL INFORMATION			0
The Client		Principal Contractor (PC)	Where identified
		Name: Fr	aser Coast Regional Council
Fraser Coast Regional Cou	ncil (ABN-19277850689)		
77 Tavistock Street		ABN: 19	277 850 689
PO Box 1943		Address. N1	47 Ellengewon St
Hervey Bay QLD 4655 7h: 1300 794 929		Address: 41	l-47 Ellengowan St
n: 1300 794 929		Contact Number: 13	300 794 929
		Contact Number.	700 734 323
All personnel conductin	g this work MUST be made	aware of these methods of	control at toolbox meetings
		ces, with on-site enforceme	
Name of person	John Radford/ Shaun	Date SWMS provided to	
responsible for ensuring	Pringle	PC:	08/01/2016
compliance with SWMS		M	
Name of person(s)	John Radford/ Shaun	Last SWMS review date:	
responsible for	Pringle		08/01/2016
reviewing SWMS			2010010000
Signature's		Date received:	08/01/2016
Works Manager's Name	15 losposo		
Works Manager's	100/200		
Telephone Number	0,0931557		1
	<i>( ( ( ( ( ( ( ( ( (</i>		

SK A5565511	Terre						
	ssess the likeli		equences from the			Overall Work A	ctivity Risk Assessment
	Insignificant No Injury, 0 - low \$ loss	Minor First Aid Injury, low - medium \$ loss	Moderate Medical Treatment medium -high \$ loss	Major Serious Injuries, mejor \$ loss	Catastrophic Death, huge \$ loss	Likelihood	ALL CERT
Almost Certain is expected to occur at most times			E - 72	E - 84	E - 100	Consequences	Mos
Likely will probably occur at most times	M - 24			E - 80	E - 96	Risk Score	
Possible might occur at some time	L - 12	M - 28		E - 76	E - 92	Nisk Score	1 72
Unlikely could occur et some time	L - 8	L - 20	M - 36		E - 88	1	Supervisor prior to controls
Rare may occur in rare circumstances	L - 4	L – 16	M - 32			being	; put in place.

Warning: Under no circumstances are any other authorities (owners) utility services (electricity, gas, telephone, water, waste water etc) to be interfered with or moved without the authorities written consent.

CONTROLS A	ND IMPLEMENTATION		
Task	Hazard/ Risk (What are the hazards and risks?)	Method of Control (How will hazards and risks be controlled?)	Risk after Control
Pre-Start	Lack of information provided to workers which may result in injury or illness.	Pre-start briefing to ensure all staff are fully aware of the scope of work before work commences.  Ensure all persons have undertaken WH&S induction.	14
Motor vehicle traffic  Compliance with the  Manual of Uniform  Traffic Control Devices	Risk of injury or death from contact with motor vehicles. Risk of injury or death from contact with cranes or loads. Injury or death from contact with moving plant.	All work will comply with the Manual of Traffic Control Devices some of but not all are listed below  Ensure any control device applied does not become a potential hazard to workers or pedestrians or vehicles.  Correct signage will be identified and displayed before work begins.	
		<ul> <li>Signage devices will be set up at correct distances.</li> <li>Signage devices will be set up at correct heights.</li> <li>Signage devices shall be clean and in good condition.</li> <li>Local speed shall be reduced to the required level (40 kph when clearance to traffic is less than 1.2m).</li> </ul>	<b>6</b> 6/6
	, Rill	Vehicle travelled path shall be clearly identified and maintained.	
SC, 4	Risk of injury or death from contact with motor vehicles. Risk of injury or death from being struck by rail traffic.  Risk of injury or death from unauthorised traffic control.	<ul> <li>Only accredited traffic controllers shall be used for traffic control.</li> <li>Traffic controllers shall have their tickets available on site.</li> <li>Traffic controllers shall be given 15 minute break every 2 hours.</li> <li>Only trained persons will be given responsibility for worksite signage.</li> <li>A Traffic Management Level 2 person shall authorise the site signage.</li> <li>Records should be kept for all work site signing and delineation.</li> </ul>	<b>●</b>
Placement/ Removal /maintenance of signs  Compliance with the Manyal of Uniform Traffic Control Devices	Risk of injury or death from contact with motor vehicles.	<ul> <li>☑ Park vehicle clear of roadway.</li> <li>☑ Vehicle warning device displayed (sight distance to device: &gt;150m 60km/h or lower, &gt; 250m elsewhere)</li> <li>☑ Workers to wear Hi-Vis clothing.</li> <li>☑ Observe safe manual handling techniques.</li> <li>☑ Face oncoming traffic, spotter should be used when necessary.</li> <li>☑ Survey area for hazards: Bites/stings, slips/trips, weather</li> <li>☑ Utilize footpaths/verges.</li> <li>☑ Two-way communication utilised when</li> </ul>	L11

	Risk of injury or death from	necessary.  No crossing of roads when carrying signage.  Place signs as per MUTCD Part 3, in sequence, one side at a time.  Supervisors monitor safe placement/removal of signs.  Install safety barriers where necessary.
Pedestrians (Public Safety)	contact with motor vehicles. Risk of injury from uneven temporary footpaths.	Where required clearly marked alternative safe laneways shall be made available for pedestrians.  Laneways crossing kerb and channelling shall have non-slip ramps suitable for wheelchairs, baby strollers, pedestrian scooters and aged or disabled persons.
Poor light, Long term works.	Risk of injury or death from contact with motor vehicles.	Where long-term works exist (more than one shift) correct suitable delineation (e.g. Flashing lights or reflecting bollards) shall be installed and checked by a responsible person at the end of each shift.  Workers operating in poor / low light conditions shall wear high visibility day / night garments.
Short term works. Mowing, Garbage Collection, Pothole Patching, Herbicide Spraying, Sign Repairs.	Risk of injury or death from contact with motor vehicles.	☐ Signage to conform to Manual of Traffic Control devices.  Vehicles to have warning devices (e.g. flashing lights, vehicle signage e.g. vehicle frequently stopping.)  All workers to wear correct high visibility clothing.  Safety devices (e.g. traffic cones) to be used around high risk work sites (e.g. traffic islands)  Mowers to be used with shute away from traffic.
rk near railway	Risk of injury or death from contact with motor vehicles. Risk of injury or death from being struck by rail traffic.	<ul> <li>□ Railway controlling authority shall be contacted before work begins within the authorities boundaries.</li> <li>□ Work will not start until permission is granted from controlling authority.</li> <li>□ Work will conform to controlling authority's guidelines.</li> </ul>
P.P.E.	Risk of injury or death from contact with motor vehicles. Risk of injury or death from being struck by rail traffic.	All workers shall wear high visibility garments that comply with the Manual for Uniform Traffic Control Devices. (Persons with faded garments shall wear reflective vests).  Vests shall be correctly secured when worn.  P.P.E. shall be identified and worn
Public Safety □	Risk to the public of injury or death from contact with motor vehicles. Risk to the public of injury or death from being struck by rail traffic.	<ul> <li>Keep unauthorised persons out of the work site.</li> <li>Instigate Traffic Management Plans and Traffic Control if necessary.</li> <li>Reduce vehicle speed around the work site.</li> </ul>

	High Risk Construction Work that:					
A separate Work	☐ Involves a risk of a person falling more than 2 metres					
Method Statement	☐ Is carried out on a telecommunication tower					
that identifies the task	☐ Involves demolition of an element of a structure that is load —bearing or					
hazards, risks and the	otherwise related to physical integrity of the structure.					
methods to control	☐ Involves, or is likely to involve, the disturbance of Asbestos.					
the risks is attached	☐ Involves structural alterations or repairs that require temporary support to					
for the work ticked	prevent collapse.					
	☐ Is carried out in or near a confined space.					
	Is carried out in or near a shaft or trench with an excavated depth greater than					
	1.5 metres, or a tunnel.					
	☐ Involves the use of explosives.					
	☐ Is carried out on or near pressurised gas distribution mains or piping.					
	Is carried out on or near chemical, fuel or refrigerant lines.					
	Is carried out on or near energised electrical installations or services.					
	Is carried out in an area that may have a contaminated or flammable					
	atmosphere.					
	☐ Involves tilt-up precast concrete					
	☐ Is carried on, in or adjacent to a road, railway, shipping lane or other traffic					
	corridor that is used by traffic other than pedestrians.					
	☐ Is carried out in a workplace in which there is any movement of powered mobile					
	plant.					
	☐ Is carried out in an area where there are artificial extremes of temperature					
	Is carried out in an area where there are artificial extremes of temperature    Is carried out in or near water or other liquid that involves a risk of drowning.					
	Involves diving work.					
Other (please state)	I IIIVOIVES GIVING WOLK.					
<b>J</b>						
	23					
MONITORING OF CITE	CONTROLS					
MONITORING OF SITE	CONTROLS					
Inspections	Supervisor to check that pre start checks are completed in log books or check					
🗹	sheets before work commences.					
	Exclusion zones and hazard warning signs (where required) be displayed before					
	work commences.					
	Effective reliable communications available on site.					
Check barricading is in place each day.						
Ongoing monitoring						
Ongoing monitoring Ongoing risk assessments are conducted during the project and discuss toolbox meetings.						
$C_1$	The Site Supervisor will hold regular Toolbox meetings to discuss changes to the workplace or identification of new hazards.					
2	1 /					
.61	Internal / External audits and inspections by Supervisor, WHSA, WHSO and Athers.					
Povelove						
Review	This SWMS has been reviewed for this particular construction project. Date of					
ل_ل_	review: 08/91/2016 6-3-17					

# **FURTHER ON-SITE CONTROLS**

Task Hazard /Risk	Methods of Control		
4.40			

#### **Related Documents**

RTI 2017/18-003

Work Health & Safety Act 2011

Work Health & Safety Regulation 2011

Manual of Traffic Control Devices (Part 3 – work on roads)

Traffic Management for Construction or Maintenance Work Code of Practice 2008 MUTCD

ECRC. Released under Right to Information Act. 2009

DOCS#2101009 v4

Name (Please print)	Signature	Date	I have been consulted about this
			Safe Work Method
			Statement.
			Please circle
		1 -	response
I lapsoes		6-3-17	(Y) N
B Grimstone	18 to	7-3-17	Ø/N
3 Welling fon	J William	7-3-17	60 / N
Oovl Muster	VI-11/2	11.7	(Y)/ N
16im Empson	111	7-3-17	⟨Y⟩ / N
GARY POPPI	98Mi	7-3-17	Ø/ N
Rob AMBROY	9-100	7.3-17	<b>€</b> )/ N
SEFF PETERS	29Pt	7-3-17	
TIM COLONS	un	7-3-17	Ø / N
THE Nidson		7-3-17	@/ N
DANY TAKEY	.6	7-317	<b>⊘</b> / N
MALCOLM ZIPF	In R. Zips	7-3-17	(Y) / N
PAUL COPER	No.	7-3-17	<b>⊘</b> / N
SOYSON WORTH VOOR	A	7-3-17	(V)/ N
Chris Cecil	fruit	7-3-17	Ø/N
Jim Pellan 1		8-3-17	(Y) / N
taron Broom.	Diso-	" "	Ø/ n
Dyon Chardon	a last	9/3/17	<b>₹</b> / N
R. Lewis		7.3.17	Ø N
Bulachlan	Belledan	14/3/12	<b>♦</b> / N
Nathon S	18/	13/3/17	CS/N
Phill Young	John	17-3/17	(Y/ N
David Grainse	D	17-3-17	Ø N
Jorathan Thomas	Mamo	16/3/17	Ø/ N
Denis Vella	Delle	16/3/17	(Y) / N
	all	305/1)	Ø/ N
GROHAM WLKNS	Man	11	₹ N
A. 1-louis	772	1 (	Ŏ

Privacy Notice: In using this form you are providing personal information such as your name, initials, signature, certificate number and contact number. This information will be used for the purpose of acknowledgement of the Work Method Statement as required under the Work Health and Safety Regulations 2011. Your information may be given to other directorates or departments within Council and may be given to other Government agencies for activities which may be conducted as part of a workers' compensation claim or as part of an investigation or audit. Your information is handled in accordance with the Information Privacy Act 2009.

DOCS#2101009 v4

#### FRASER COAST REGIONAL COUNCIL

## SAFE WORK METHOD STATEMENT

<del>-</del>	7 /		ctrical installations or services.
Work Activity (e.g.	): LOSO LO	US 3	
Work Location:	Suffico Lo	- 1000000	
WOIR LOCATION.			
GENERAL INFORMATION			
The Client		Principal Contractor (PC)	Where identified
Fraser Coast Regional Cou	ıncil (ABN-19277850689)	Name:	
77 Tavistock Street		••••	
PO Box 1943		ABN:	C
Hervey Bay QLD 4655 Ph: 1300 794 929		Address:	
PII: 1300 794 929			
		Contact Number:	dio
		••••	
		vare of these methods of con	
	s before work commences, v	with on-site enforcement by t	he Site Supervisor.
Name of person		Date SWMS provided to	6,3,17
responsible for ensuring compliance with SWMS	T RASFORD	PC:	/
Name of person(s)		Last SWMS review date:	
responsible for	))		6,3,17
reviewing SWMS	1//	(0)	
Signature's	124	4	
Works Manager's Name	T LASTORE		
Works Manager's	3 4 4 5 5		
Telephone Number	0409316559		
•	2000		
Risk Assessment			
		Overall Work A	activity Risk Assessment
ssess the likelihood a	and consequences from the hazards or risks  Consequences	Likelihood	Min - B-
No Injury, Fi	rst Ald Medical Serious De	trophic peth, uge	HUSTON COR
\$ loss m	edium medium-high major \$ i loss \$ loss \$ loss	Consequences	PATO
is expected to occur at most times	E - 72 E - 84 E -	Risk Score	127.7
Likely will probably occur M - 24	E - 80 E -	- 96	100
	I - 28 E - 76 E -	To be completed by	Supervisor prior to controls
	- 20 M - 36 E -	being being	g put in place.
Rare	- 16 M - 32		

**Warning:** Under no circumstances are any other authorities (owners) utility services (electricity, gas, telephone, water, waste water etc) to be interfered with or moved without the authorities written consent.

CONTROLS AND IMPLEMENTATION			
Task	Hazard/ Risk (What an hazards and risks?)	1	Risk after Control
planned works and zone (¢able clearand	electrical cables can be maintai ces) – table provided at back of	conduct a risk assessment to ensure adequate clearance ined at all times. If the plant or work will encroach in the SWMS" Ergon Energy MUST be consulted and a safety a this can take up to 7 days to respond to request).	"exclusion
Pre-Start and Planning	Lack of information provided to workers which may result in injury or illness.  Design of work not identifying the hazard	Pre-start briefing to ensure all staff are fully aware of the scope of work before work commences.  Ensure all persons have undertaken WH&S induction.  Check all spotters' tickets before work commencement to ensure in date and competency.  Comply with all requirements from Ergon Energy.	OF H
Investigations, Inspections Viewing and Measuring	Injury or death from being hit by vehicles	(This activity is to conform to MUTCD Pt 3 Sects 4.3.10 / 4.4.10)  ✓ Spotter may be required for activity.  ✓ Park vehicle clear of roadway.  ✓ Vehicle to have warning devices  ✓ Workers to wear Hi-Vis clothing.  ✓ Completed a risk assessment.	18
Excavation near underground:	Risk of injury or death from contact with live parts.  Risk of interruption to	All underground services are to be identified prior to commencing work (Dial before you dig 1100).  Ensure services locations are correctly verified	
A/ Electrical Services	Risk of plant severing live parts.	by a plan, on the ground and depth indicated either by high visible paint or flags.  Pothole to ensure adequate clearance from underground services. (DON"T rely on sand or caution tape to assist with marking of services).	
B/ Poles and Stay Wires	Selec	Ergon recommend potholing every 4 meters to ensure depth and location have not changed.  Sought advice from cable owners before commencing work in flooded or wet trenches where the trench is in close proximately to underground power cables.	/
KC/K		Consider the use of barricades if possible to exclude work in the danger zone.  Work not to be attempted within 5m horizontal distance of pole stays where excavation depth is 250mm before conducting Electrical Owner.  Work not to be attempted within 5m of pole with earth leads or cables running down into the	h16
☑ Electrical Overhead Services	Risk of injury or death from contact with live parts.	ground before contracting the Electrician Owner.  ALL overhead cables shall be treated as live electrical cables unless confirmed in writing by the cable owner.	116
	Risk of interruption to	Check "Exclusion Zone Chart" for allowed operating distance near live parts.	

	services. Risk of plant severing live aerials.	Contact Energex or Ergon and request for safety advise if plant or work activity will encroach the 3m exclusion zone.	
		Ergon Energy – BS001405F107 Safety Advice Request Form. (Website)	
		Organise with Ergon Energy to de-energise of protect power cables, electrical equipment where safe distance cannot be maintained, when applicable request measure of electrical	
		cable height.  If required request 'Tiger Tails' to be fitted if working within the 3 metre exclusion zone before work commences. This will be a cost to council.	25
		Plant operators and safety observer must have completed the Ergon – "Safe Working around Live Electrical Parts" awareness course if working within 3 metres of overhead power	
•		Adequate measures shall be in place to prevent objects, people or plant operating in the "Safety Observer Zone" for entering the "Exclusion Zone":	
		<ul> <li>Examining an alternative way to complete work without the need to enter the Safety Observer Zone.</li> </ul>	
		<ul> <li>Erecting a physical barrier to prevent plant or equipment entering the "Exclusion Zone".</li> <li>Erection of warning signs either side of the power line.</li> </ul>	
	1100	<ul> <li>Having authorised person on site when plant is operating in the safety observer zone.</li> <li>Providing training, instruction and tool box</li> </ul>	
	asedu	on the tasks and work prior to commencement.  o Loads containing construction material are unloaded away from power line areas.	
Safety Observer	Risk of injury or death from contact with live parts.	Plant shall not enter a "safety observer zone" unless:  Authorised by Ergon "authorised person" is on site to monitor the work.	
, CRC		To have adequate training to perform the role.  The authorised person has provided instruction on safety issues regarding the overhead cable to the person operating the plant.	117
		To warn the operator if any part of load, equipment is about to enter the exclusion zone.  The Safety Observer is to have no other job except to observe work conducted near power	116
		lines and maybe more than one may be required if structures/trees limit good visibility between spotter and plant.	
		Safety Observer must maintain a suitable line of sight position at all times to observe and communicate with hand signals and/or 2 two way that the person or plant is operating a safe distance from live power lines.	

☑Site Barricading	Risk of injury or death from contact with live parts.	To ensure site facilities, work and parking areas are kept clear of potential low overhead cable may fall if contact with plant.  To maintain a safe distance from the work, plant and equipment they are observing.  To wear appropriate personal equipment (cotton long shirt and pants, non-conductive beimet, footwear and gloves).  An exclusion zone of 1 metre shall be maintained for ALL overhead power lines.  Ensure that the site is adequately barricaded.  Ensure appropriate warning signs are erected.  Ensure exclusion zone is flagged and the safety observer zone is highlighted within the barricaded area	48
Other work conducted around live electrical parts	Risk of injury or death from contact with live parts.  Risk of interruption to services.	Where operating a hydro vac equipment to excavate in vicinity of underground electrical assets – maintain distance of 200mm between end of pressure wand and underground assets and not directly aimed at electrical asset.  Water pressure not to exceed 2000psi.  Directional boring near underground cables –	
		trail holes are carefully dug to prove actual location of conduits/cables before using boring prachinery.  Heavy crawler/vibration equipment is operated on top of cables a minimum cover of 450mm to cable protective cover must be maintained.  Explosives must not be used within 5m of cables/conduits unless engineering report is provided indicating no damage will be sustained.	4/6
Public Safety / Pedestrians	Risk of injury or death to the public from contact with live parts.  Risk of injury or death from contact with cranes or loads.  Injury or death from contact with moving plant.	<ul> <li>Keep unauthorised persons out of the work site.</li> <li>Instigate Traffic Management Plans and Traffic Control if necessary.</li> <li>▶ Pedestrian signage is to be installed.</li> <li>▶ Reduce vehicle speed around the work site.</li> <li>▶ Where required, clearly signed alternative safe laneways shall be made available for pedestrians.</li> <li>▶ Laneways crossing kerb and channelling shall have non slip ramps suitable for wheelchairs, baby strollers, pedestrian scooters and aged or disabled persons.</li> <li>▶ Plan and use safe vehicle access.</li> <li>▶ Schedule working hours so as to limit exposure to the public.</li> </ul>	L20
Evacuation Procedure – Unplanned contact with electrical lines	Risk of injury or death from contact with live parts. Risk of injury or death from contact with live areas.	Call Ergon Energy immediately on 000 or 131 670 if contact is made with or damage to electrical cables.  Depending on circumstances, the relevant emergency services are to be contacted police/fire or ambulance).  Where electrical cables are touching the machinery - Stay in the cabin. Machinery operators must not leave their machinery until the power is isolated and the area is declared	120

safe.  Rescue attempts to free MIOST only occur when a Ergon or the power is iso  Keep all persons and oth	advise is provided by olated. ner at a safe distance vith live high voltage may
Correct Clothing  Injury or death from incorrect use of PPE.  Injury or death from incorrect or lack of PPE.  Injury or death from incorrect or lack of PPE.  Injury or death from incorrect or lack of PPE.  Control Devices. (Person Shall wear reflective vess Vests shall be correctly some P.P.E. shall be identified PPE is to worn depending encountered.  Caps are not to be worn proper legionnaires flap peck.  Depending on the task be shirt long sleeves not be	licable e.g.  igh visibility garments anual for Uniform Traffic as with faded garments ats).  secured when worn. and worn. Relevant ag on the conditions  unless fitted with a to protect the ears and  peing worked on, should a worn down, a ment is to be completed
Other (please state)	
MONITORING OF SITE CONTROLS	

	MONITORING OF SITE CONTROLS
wildy.	
Institutions	Before work starts each day a competent person will check the work activity for the
<del> </del>	paray.
0	Weather conditions.
	roximity to other services.
	workers to be advised of any changes to the worksite before work commences.
	heck barricading and tiger tails are in place each day.
On-going monitoring	Ongoing risk assessments are conducted during the project and discussed at
	toolbox meetings.
	The Site Supervisor will hold regular Toolbox meetings to discuss changes to the
	workplace or identification of new hazards.
	Internal/External audits and inspections by WHSA, WHSO and others.
Review	☐ This SWMS has been reviewed for this particular construction project. Date of
l 🗹	review:\$/\$./

FURTHER ON-SITE CONTROLS					
Task	Task Hazard/ Risk (What are the hazards and risks?) Method of Control (How will hazards and risks be controlled?)				

*Tables, below refer to overhead uninsulated power lines, unless stated.* Information extracted from Electrical Safety Regulation 2013 Schedule 2

## **Exclusion Zone - Untrained Person (distances in mm)**

		Untrained Person	
Nominal phase to phase Voltage of electric line	Person	Operating Plant	Operating Vehicles
Insulated LV: Consultation with and verified by AP (Electrical)	No exclusion zone prescribed	1000	300
LV with NO consultation with Electricity Entity	3000		SC.
LV With consultation with Electricity Entity	1000	70;:	600
>LV up to 33 kV with NO consultation with Electricity Entity	3000	3000	4
LV up to 33 kV with consultation with Electricity Entity	2000	CHOI	900
>33 kV up to 132 kV	3000		2100
>132 kV up to 220 kV	4500	6000	2900
>220 kV up to 275 kV	5000		

## Exclusion Zone - Instructed Person and Authorised Person (distances in mm)

20.	Instructed Person (IP) & Authorised Person (AP)			
Nominal phase to phase Voltage of electric line	AP and IP	Operating Plant with Safety Observer or another Safe System of work	Operating of Vehicles	
Insulated LV: Consultation with and verified by AP (Electrical)	No exclusion zone prescribed	No exclusion zone prescribed	No exclusion zone prescribed	
LV	No exclusion zone prescribed	1000	600	
>LV up to 33 kV	700	1200	700	
>33 kV up to 50 kV	750	1300	750	
>50 kV up to 66 kV	1000	1400		
>66 kV up to 110 kV	1000		1000	
>110 up to 132	1200	1800	1200	

#### **Relevant Documents**

Work Health & Safety Act 2011

Work Health & Safety Regulation 2011

Electrical Safety Act & Regulations 2013

Code of Practice Working Near Exposed Live Parts 2010

I/we will ensure the items listed in this Safe Work Method Statement will be put in place and complied with.

Person/people responsible signature/s

	/		
Name (Please print)	Signature	Date	I have been consulted about this Safe Work Method
	1 1		Statement.
			Please circle response
V RADERLO	ILA	6-3-17	(V) N
J Wellington	Saluta	7-3-17	Ø/ N
1 Granston	the	7-3-17	<b>⊘ ⊘</b> / N
1 Kim Empson	1/-	7-3-17	
Day Muster	Mh po	7.3.17	<b>⊘</b> / N
GARY POPPI	90 M	7-3-17	<b>∅</b> / N
PAUL COOPER	04	Al li	(Ý) / N
MALCOLM ZIPF	MA Zips	7-3-17	(Y) / N
SEFF PETERS	29/3	7-3-17	80/ N
Tim Covens	us pro	7-3-17	Ø / N
Ros AMBROSE	All	7.3-17.	Ø/ N
PARENA San	2	7.7-17	Ø/N
Dan, Tolyer		23-17	(D) N
Sayson Worth woon	All Indiana	7317	⟨Y⟩ / N
Chris Cecil	5 kail	7-3-17	<b>⊘</b> / N
Jim Pallam	and the same of th	8-3-17	Ø / N
Aaron Broom	Dwo	\\	(Ý)/ N
Dylon Cherolon	del	9/3/17	Ø / N
Plewis		7/3/17	(Y)/ N
13 Machlan	Bul Pachlon	14/3/17	Ø/ N
P brange	L	17-3-17	Ø N
PLIII Young	11/1/	11	(V) N
Jonathan Thoma	8 Morna	16/3/17	Ø/ N
Denio Vella	6/1/1/1	16/3/12	(9)N

Privacy Notice: In using this form you are providing personal information such as your name, initials, signature, certificate number and contact number. This information will be used for the purpose of acknowledgement of the Work Method Statement as required under the Work Health and Safety Regulations 2011. Your information may be given to other directorates or departments within Council and may be given to other Government agencies for activities which may be conducted as part of a workers' compensation claim or as part of an investigation or audit. Your information is handled in accordance with the Information Privacy Act 2009.

Angus Rae and 30/5/17 @/a
GROWAM WILKINS SW "

An Half City "

C. M. M. M.

FCRC. Released under Right to Information Act 2009

RTI 2017/18-003

## FRASER COAST REGIONAL COUNCIL

## SAFE WORK METHOD STATEMENT

Work performed with common	plant provide by pri	ncipal contractor for use.
Work Activity (e.g.):	Lbers	ส
Work Location:	Too	001
GENERAL INFORMATION		
The Client	Principal Contracto	r (PC) Where identified
Fraser Coast Regional Council (ABN- 19277850689)	Name:	
77 Tavistock Street	ABN:	
PO Box 1943 Hervey Bay QLD 4655 Pl 300 794 929	Address:	
300 794 929	Contact	
	Number:	
All personnel conducting this work <u>MUST</u> be meetings and/or pre-start meetings before v Supervisor.	made aware of these me work commences, with o	ethods of control at toolbox n-site enforcement by the Site
Name of person responsible for	Date SWMS provided to PC:	6,3,17
responsible for ensuring Compliance with	provided to FC.	
SWMS	219	
Name of person(s)	Last SWMS review date:	6317
reviewing SWMS Signature's		
Signatures		
Works Manager's		
Weeks Manager's Telephone Number 04095/6359		·
Risk Assessment		
ssess the likelihood and consequences from the hazards or risks	Overa	all Work Activity Risk Assessment
Consequences Insignificant Minor Moderate Major No Injury, First Aid Medical Serious 1 - low Injury, low - Treatment Injuries,	Likelihood  Death, huge	105\$
\$ loss   medium   med	S /oss Consequence	
Cocur at most   E - 80   E - 80   E - 80     Cocur at most   E - 80   E - 80     Cocur at most   E - 80   E - 80     Cocur at most   E - 80   E - 80     Cocur at most   E - 80   E - 80     Cocur at most   E - 80	Risk Score	H 7 2
at most times  Possible might occur at L - 12 M - 28 E - 76		ted by Supervisor prior to controls
some time Unilkely could occur et L - 8 L - 20 M - 36	E - 88	being put in place.

**Warning:** Under no circumstances are any other authorities (owners) utility services (electricity, gas, telephone, water, waste water etc) to be interfered with or moved without the authorities written consent.

L - 4

L - 16

M - 32

CONTROLS	AND IMPLEMENTATION		
Task	Hazard/ Risk (What are the hazards and risks?)	Method of Control (How will hazards and risks be controlled?)	Risk after Control
Pre-Start	Lack of information provided to workers which may result in injury or illness	Pre-start briefing to ensure all staff are fully aware of the scope of work before work commences.  Ensure all persons have undertaken WH&S induction.	14
Investigations, Inspections Viewing and Measuring	Injury or death from being hit by vehicles	(This activity is to conform to MUTCD Pt 3 Sects 4.3.10 / 4.4.10  Spotter may be required for activity.  Park vehicle clear of roadway.  Vehicle to have warning device  Workers to wear Hi-Viz clothing.  Perform a risk assessment.  If crossing road in gaps there must be a sight distance (See MUTCD 4.3.10 / 4.4.10)	1 12
Common Plant - Safe and Maintained Plant	Lack of information provided to workers which may result in injury or illness.  Risk of injury or death from contact with cranes or loads.  Injury or death from contact with moving plant.	Common plant is to be safe for the purpose for which it is provided.  The plant is to be inspected and serviced as per the manufacturer's requirements.  The plant is to be effectively maintained. (Check last maintenance record/).  Daily checks are to be recorded on log books.  Ensure that competent persons only use plant.  Dust control by watering trucks ( times / day).  Access is only to site office to gain permission before entry.  Signage erected - types:  Other vehicles entering the site only with approval and monitoring.	4/6
Fencing, barricading etc	Risk of injury or death to unauthorised persons on site from plant or falling objects etc.	An appropriate fence will be provided around the site.  Workers will report any defects on fencing and barricading.  Appropriate signage ("Unauthorised Entry") will be displayed at the boundary.  Relevant mandatory signs (footwear, safety elements) signs are to be displayed.	18
Scaffolding	Risk of injury or death from falling from heights.	•	

- N/A	Risk of injury or death from improperly erected scaffold.	<ul> <li>Edge protection or guardrails will be provided where there is a risk of a person falling.</li> </ul>	
Electrical	Risk of injury or death from contact with live parts.	☐ A licensed electrician to install the power.	
/		<ul> <li>Switchboards if applicable are weatherproof.</li> </ul>	
NA		☐ Have a protective lid attached in a way not to damage flexible electrical extension leads.	5
		☐ Fitted with a push button RCD.	
		☐ The PC is responsible for testing the RCD.	
Public Safety / Pedestrians	Risk of injury or death to unauthorised persons on site from	□ Keep unauthorised persons out of the work site.	
	plant or falling objects etc.	☐ Instigate Traffic Management Plans and Traffic Control if pecessary.	
		☐ Pedestrian signage is to be installed.	
		Reduce vehicle speed around the	10
		work site.  Where required, clearly signed	170
		alternative safe laneways shall be made available for pedestrians.	
		Laneways crossing kerb and	
	Qil <sup>0</sup>	channelling shall have non slip ramps suitable for wheelchairs,	
		baby strollers, pedestrian	
	96,	scooters and aged or disabled persons.	
		☐ Plan and use safe vehicle access.☐ Schedule working hours so as to	
i	8	limit exposure to the public.	
	Injury or death from incorrect use	Conseq DDF whom a set is 14	
Clothing	of PPE.	General PPE where applicable e.g.	
PPE	Injury or death from incorrect or lack of PPE.	All workers shall wear high visibility garments that comply	
	IGER OF FFL.	with the Manual for Uniform Traffic	
		Control Devices. (Persons with faded garments shall wear	
		reflective vests).	
<b>~</b> O		☐ Vests shall be correctly secured when worn.	412
		P.P.E. shall be identified and worn. Relevant PPE is to worn	
		depending on the conditions	
	i	☐ Caps are not to be worn unless	
		fitted with a proper legionnaires flap to protect the ears and neck.	
		☐ Depending on the task being	
		worked on, should shirt long sleeves not be worn down, a	
		documented risk assessment is to	

	be completed and sun screen is to be worn.
Other (please state)	☐ A general purpose rubbish skips will be provided.
	<ul><li>It will be the responsibility of the PC to ensure it is regularly emptied.</li></ul>
	☐ Toilets will be provided
	☐ Wash up area.

	MONITORING OF SITE CONTROLS
Inspections	Site Supervisor is to ensure that inspection logbooks are used and completed correctly.
On-going monitoring	<ul> <li>Workers will report any defects on plant.</li> <li>Daily inspections of plant will occur.</li> <li>Monthly hazard inspections of the site will occur.</li> <li>The Site Supervisor will hold regular Toolbox meetings to discuss changes to the workplace or identification of new hazards.</li> <li>Internal / External audits and inspections by WHSO and others.</li> </ul>
Review	This SWMS has been reviewed for this particular construction project. Date of review:

	FURTHER ON-SITE CONTROLS				
Task	Hazard/ Risk (What are the hazards and risks?)	Method of Control (How will hazards and risks be controlled?)	Risk after Control		
	-87				
	3				
	60				
	0				

#### **Related Documents**

Work Health & Safety Act 2011

Work Health & Safety Regulation 2011

Plant Code of Practice 2005

Rural Plant Code of Practice 2004

I/we will ensure the items listed in this Safe Work Method Statement will be put in place and complied with.

Person/people responsible signature/s

DOCS#2101010 v2

Nov 2012

Name (Please print)	Signature	Date	I have been consulted about this Safe Work
1			Method Statement.
TRASFORD		1.3.17	Please circle response
Mark Windley	10	237/	Y // N (Y) / N
1 Cim Empson	1/4/	7-3.17	
	710	3-3-17	Y/N
GART POPPI	Theffy 1	7-3-17	Ø / N
Malityou	Jully	7-3-17	OIN
B Grindetar	Mity	7-3-17	<b>∅</b> / N
r. Coolgh	V	ll u	(Y)/ N
MALCOLM ZIPF	bu R. Zepl	1-3-17	(V) / N
JEGG PETERD	29/200	7-3-17	Ø/N
Tim Corpers	111	7-3-17	1/N
Prelban		7-3-12	Ø/ N
DAM, TOMEY	9	7-3-1-7	Ø / N
RB MBROSE	Roll	7-3.11	Ø/N
Saysar Northernoon		1-217	(M) / N
Chris Cecil	Eur X	7-3-17	Ø / N
Augon Broom	Kan	8-3-17	(Ý) / N
Jim Poer		( 2-5	(Y)/ N
Blos Charles	OZA O	9/2/17	Ø/ N
Klevis		7.3.17	(Y) N
B el Gullon	Bulloullan	14/3/19	@/ N
Northan S	10	12/3/17	<b>₫</b> / N
Phill young	Sim	17/2/11	(Y) / N
1 tours	201	/1 //	Ø / N
Sonathan Thomas	I Mums	16/3/17	Ø / N
Denis Vella	2) 11,	// / / / / / /	A / N
		16/5/14	(Y) / N
CIPHON WILK 113		30-5-17	
Magas Rac	army	11 (1	Ø N
1. trad		( (-	<b>⊘</b> / N
( . W; 118	CogW	1-	(Y) / N
	<i>V</i>		Y / N

**Privacy Notice:** In using this form you are providing personal information such as your name, initials, signature, certificate number and contact number. This information will be used for the purpose of acknowledgement of the Work Method Statement as required under the Work Health and Safety Regulations 2011. Your information may be given to other directorates or departments within Council and may be given to other Government agencies for activities which may be conducted as part of a workers' compensation claim or as part of an investigation or audit. Your information is handled in accordance with the Information Privacy Act 2009.

## FRASER COAST REGIONAL COUNCIL

## SAFE WORK METHOD STATEMENT

For High Risk Construction Work that is carried out in which there is any movement of powered mybile plant.  $\it j$ 

Work Activity:	loss been
	0
Work Location:	SHILL COT ST 10000017

GENERAL INFORMA	TION		
The Client		Principal Contra	ctor (PC) Where identified
Fraser Coast Region 19277850689) 77 Tavistock Street	•	Name: ABN:	
PO Box 1943 Hervey Bay QLD 46! Th: 1300 794 929	55	Address:	
		Contact Number:	
meetings and/or pre-s Supervisor.	ing this work <u>MUST</u> be start meetings before	made aware of these work commences, wit	methods of control at toolbox th on-site enforcement by the Site
Name of person responsible for ensuring compliance with SWMS	J PADFORD	Date SWMS provided to PC:	6,3,17
Name of person(s) responsible for reviewing SWMS	"///	Last SWMS review date:	6,3,17
Signature's	Thet		
Works Manager's Name	TRASPORD		
rks Manager's Telephone Number	04093/6359		

#### **Risk Assessment Overall Work Activity Risk** ssess the likelihood and consequences from the hazards or risks **Assessment** Consequences Likelihood Major Serious Injuries, major Catastrophic IKELY Consequences E - 72 E - 84 times Likely hably occur **Risk Score** M - 24 E - 80 E - 96 Possible might occur at some time Unlikely could occur at To be completed by Supervisor prior to controls L - 12 M - 28 E - 76 E - 92 being put in place. L - 8 L - 20 M - 36 E - 88 Rare may occur in rare circumstances L - 4 L - 16 M - 32

**Warning:** Under no circumstances are any other authorities (owners) utility services (electricity, gas, telephone, water, waste water etc) to be interfered with or moved without the authorities written consent.

CONTROLS AND	IMPLEMENTATION			
Task	Hazard/ Risk (What are the	Method of Control (How will	Risk after	
	hazards and risks?)	hazards and risks be controlled?)	Control	
Pre-Start	Lack of information provided to	Pre-start briefing to ensure all		
	workers which may result in	staff are fully aware of the scope	1 11	
4-	injury or illness.	of work before work commences.	64	
		Ensure all workers have	' /	
		undertaken WH&S induction.		
Investigations,	Injury or death from being hit	(This activity is to conform to MUTCD		
Inspections	by vehicles	Pt 3 Sects 4.3.10 / 4.4.10		
Viewing and		Spotter may be required for activity.	(C), (1)	
Measuring		Park vehicle clear of roadway.	1-12	
		Vehicle to have warning device		
		Workers to wear Hi-Viz clothing.		
		Perform a risk assessment.		
		If crossing road in gaps there		
		must be a sight distance (See		
		MUTCD 4.3.10 / 4.4.10)		
Plant - Safe	Plant not safe resulting in	Plant is to be safe for the purpose		
and	injury/damage.	for which it is provided.		
Maigrained		☐ The plant is to be inspected and		
Ø	Equipment breakdown.	serviced as per the		
נאט		manufacturer's requirements.	l	
	Unlicensed operators using	☐ The plant is to be effectively		
	equipment causing death or	maintained. (Check last		
	injury.	maintenance record	128	
		Daily about a way to be we conded	6	
		Daily checks are to be recorded or log books or check sheets.		
		Ensure that only competent		
		persons use plant.		
	70	Tickets and licences are visually		
		inspected, if not listed in		
		supervisor's checklist.		
Falling Objects	Risk of crush, being struck by	Use plant with FOPS (Falling		
	falling objects causing serious	Objects Protective Structure) if it		
	injury or death.	Is required for the type of work.		
	.00	Safety helmets to be worn.	487	
		Seat belts to be worn.	9	
Roll Over	Risk of injury or death from	Use plant fitted with ROPS (Roll		
	Crush, shear or cutting injuries.	Over Protective Structure).	10	
		Seat belts to be worn.  Check and comply with the	4- ð	
70		Check and comply with the manufactures' gradient		
		requirements for use.		
Being Struck	Risk of injury or death from	Separate work activities and		
by Plant	Crush, shear or cutting injuries.	enforce exclusion zone around		
17	1	mobile plant.		
		✓ Use warning devices and		
		appropriate signage.		
		Implement traffic controls.	612	
		Use P.P.E (e.g. High Visibility	1616	
		Vests).  ☐ Quick hitches to be locked &		
		buckets changed away from		
		workers.		
Noise	Risk of permanent hearing loss.	☐ All workers must wear adequate		
-10.00	Thore or permanent hearing 10331			

	Unable to hoor proves ships		
L	Unable to hear approaching plant.	hearing protection (ear muffs or ear plugs) if in a hearing	
	•	protection required zone.	68
Dust	Risk of permanent lung	Site Supervisor to consider water	
	damage, chronic injury,	truck if large amounts of dust is	
	impaired vision of hazards on	being generated on site	
	site, explosion risk.	being generated on site.	1/10
	Site, explosion risk.	Disposable face masks should	4/2
		also be worn if workers are	,
Overhead	Risk of electric shock.	exposed to dust.	
Powerlines		If work is to be done near	
1 Overnies	Electrocution. Interruption of services.	powerlines, the SWMS from the	
	services.	list below for 'Work performed	(9)
		with or near electricity services'	
Transfer		is also required.	
Trenches &	Risk of death or injury from	If work is to be done in or near a	
Excavation	engulfment or collapse.	trench or excavation, the	
		applicable SWMS's from the list	İ
		below are also required.	
Public Safety /	Public at risk from injury or	Keep unauthorised persons out of	
Pedestrians	death from crush, shear or	the work site.	
	cutting injuries.	☐ Instigate Traffic Management	
/		Plans and Traffic Control if	
		riecessary.	
		Reduce vehicle speed around the	
		work site.	
		Pedestrian signage is to be	
		justalled.	
		Where required, clearly signed	
		alternative safe laneways shall	1 , -
	~.C	be made available for	1/2
		pedestrians.	1/
		✓ Laneways crossing kerb and	
		channelling shall have non slip	
		ramps suitable for wheelchairs,	
		baby strollers, pedestrian	
	<b>\(\lambda\)</b>	scooters and aged or disabled persons.	
		/	
		Plan and use safe vehicle access.	
		Schedule working hours so as to	
	0,0	limit exposure to the public.	
	Any other Hazard/Risk not		
state)	identified above.		
_ ( )			
-0-1			
MONITORING OF	SITE CONTROLS		
T			
Inspection	Supervisor to check that	at pre start checks are completed in loa	books or
Inspection	eneck sheets before wo		
Inspection	eneck sheets before wo	at pre start checks are completed in log ork commences. Izard warning signs (where required) be	

268

Effective reliable communications available on site.

Check barricading is in place each day.

On-going monitoring	Ongoing risk assessments are conducted during the project and discussed at toolbox meetings.  The Site Supervisor will hold regular Toolbox meetings to discuss changes to the workplace or identification of new hazards.  Internal / External audits and inspections by Supervisor, WHSA and others.
Review	This SWMS has been reviewed for this particular construction project.  Date of review:

	FURTHER ON-SITE CONTROLS				
Task	Hazard/ Risk (What are the hazards and risks?)	Method of Control (How will hazards and risks be controlled?)	Risk after Control		
		Y			
		.*.0			

#### **Relevant Documents**

Work Health & Safety Act 2011 Work Health & Safety Regulation 2011

I/we will ensure the items listed in this Safe Work Method Statement will be put in place and complied with.

Person/people responsible signature/s

Name (Please print)	Signature	Date	I have been consulted about this Safe Work Method Statement.
J lastoco		6-3-17	Please circle response
GARY POPPI	/SWUMAGA	7-3-17	Ø / N
100 Marson	West-	7.3.17	Ø / N ♂ / N
1 Cim Empson 186 ANGROSE	10	7-3.17	Ø / N
Phase	12	7.3-1>	<b>2)</b> / N
DAMY TO HEV SERR PETENS	99P2	7-3-17	Ø/ N
Tim cozens PAUL COOFER	14	11 11	Ø/ N
MANCOLM INFF SAYSON HOLLUCITED	MRZIM	7-3-17	(V) / N (Y) / N

DOCS# 2101000 v2

Nov 2012

Chris (ecil (tich 7-3-17	(*1 ) ( )			
Acon Brown    1	Chris Cecil	Jesis	7-3-17	
Dian Charlos  R. Lehis  R.		OK >	8-3~17	(Y / N
R. Lehis  B. effectle  B. effectle  Construct  D. crossys  Philly convey  Denis Vella  Monday Rose  Ada Hail  Ch. 118  C	Acron Brown	Mo	8-3-17	Ŷ/ N
B estech Brailler 14/5/17 0/N  Nathan S 15 193/17 0/N  Dirang 17-3-77 0/N  Donat Vella 16/5/17 0/N  Phill young 16/5/17 0/N  Phill young 16/5/17 0/N  Phill young 16/5/17 0/N  Phill young 16/5/17 0/N  Phill young 16/5/17 0/N  Phill young 16/5/17 0/N  Phill y 16/5/17 0/N  Phill y 1/N  Phill y 1/N  Y/N  Y/N  Y/N  Y/N  Y/N  Y/N  Y/N	Bolos Charlon	es an	9/3/17	(T)/ N
Abthan S  O Grang  17-3-77  O IN  Phill young  10/5/17  Onis Vella  16/5/17  O/N  Onis Vella  16/5/17  O/N  Onis Vella  16/5/17  O/N  ON  ON  ON  ON  N  ON  N  ON  N  ON  N	K, Lewis		773.17	(X / N
Dispare   172377	B sequella	Bulladlas.	14/5/17	Ø / N
Donat Jhous Moon 16/5/17 0/N  Denis Vella 16/5/17 0/N  Propositivity 30-5-17 0/N  All that 1 0/N  Chille 1 0/N  Y/N  Y/N  Y/N  Y/N  Y/N  Y/N  Y/N	Nathan S	US	18/3/17	() / N
Denothanthous Moons 16/5/17 (2) N  Denot Vella 20/17 (2)/N  Brown Nick 15 30-5-17 (3)/N  Angus Rae and 1 (1) (7/N  And Hail (1) (1) (7/N  Y/N  Y/N  Y/N  Y/N  Y/N  Y/N  Y/N	D. Grangs	B	17-377	<u> </u>
Dento Vella    16/3/17	Phill Young	Juny .	,,	Y/N
Shown like 1 36-5-17	Jordhauthow	& Money	16/3/17	Y)/N
Ada Hall  C. M. Ne  C. M.		Delle	16/3/17	Ø/ N
Adm Hail  C.M. No  Y / N		2MZ	36-5-17	⟨Y⟩ / N
Child  (M) Y / N  Y / N		aull		Ø / N
Y / N  Y / N	Ada Hail	n	10 (1)	(Y) / N
Y / N Y / N	C.Mile	Call	1.	Y)/ N
Y / N Y / N				Y / N
Y / N Y / N				Y / N
Y / N  Y / N				Y / N
Y / N  Y / N				Y / N
Y / N  Y / N				Y / N
Y / N Y / N Y / N Y / N Y / N Y / N Y / N Y / N Y / N Y / N Y / N Y / N Y / N Y / N Y / N Y / N Y / N Y / N		0,100		Y / N
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Y / N Y / N Y / N Y / N Y / N Y / N Y / N Y / N Y / N Y / N Y / N Y / N Y / N Y / N		70,		Y / N
Y / N Y / N Y / N Y / N Y / N Y / N Y / N Y / N Y / N Y / N Y / N Y / N Y / N				Y / N
Y / N Y / N Y / N Y / N Y / N Y / N Y / N Y / N Y / N Y / N		70,		
Y / N Y / N Y / N Y / N Y / N Y / N Y / N Y / N				
Y / N Y / N Y / N Y / N Y / N Y / N				
Y / N Y / N Y / N Y / N Y / N				Y / N
Y / N Y / N Y / N	20			
Y / N Y / N				
Y / N	20			1
	CX			Y / N
Y / N				1
				Y / N

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DOCS# 2101000 v2

## FRASER COAST REGIONAL COUNCIL SAFE WORK METHOD STATEMENT

High Risk Construction Work that is carried out on, in or adjacent to a road, railway, shipping lane or other traffic corridor that is in use by traffic other than pedestrians.

GENERAL INFORMATION			9
The Client		Principal Contractor (F	PC) Where identified
77 Tavistock Street	uncil (ABN-19277850689)	Name: ABN:	Fraser Coast Regional Council 19 277 850 689
PO Box 1943 Hervey Bay QLD 4655 Ph: 1300 794 929		Address:  Contact Number:	41-47 Ellengowan St 1300 794 929
All personnel conduction	ng this work <u>MUST</u> be made etings before work comme	e aware of these methods onces, with on-site enforcen	of control at toolbox meetings nent by the Site Supervisor.
Name of person responsible for ensuring compliance with SWMS	John Radford/ Shaun	Date SWMS provided to PC:	08/01/2016
Name of person(s) responsible for reviewing SWMS	John Radford/ Shaun Pringle	Last SWMS review date:	-08 <del>/01/2016</del> -
		Date received:	08/01/2016
Signature's	1 The		1-2-1-
Signature's Works Manager's Name	T LADEDED		6-3-17

	ssess the likeli	hood and cons	equences from th	e hazards or r	isks		
			Consequence	s		Overall Work A	ctivity Risk Assessment
	Insignificant No Injury, 0 - low \$ loss	Minor First Aid Injury, low - medium \$ loss	Moderate Medical Treatment medium -high \$ loss	Major Serious Injuries, major \$ loss	Catastrophic Death, huge \$ loss	Likelihood	AMOST CER
Almost Certain is expected to occur at most times			E - 72	E - 84	E - 100	Consequences	100
Likely will probably occur at most times	M - 24			E - 80	E - 96	Diela Coome	
Possible might occur at some time	L - 12	M - 28		E - 76	E - 92	Risk Score	F 79
Unlikely could occur at some time	L - 8	L - 20	M - 36		E - 88	To be completed by	Supervisor prior to control
Rare may occur in rare circumstances	L - 4	L – 16	M - 32				put in place.

**Warning:** Under no circumstances are any other authorities (owners) utility services (electricity, gas, telephone, water, waste water etc) to be interfered with or moved without the authorities written consent.

CONTROLS A	ND IMPLEMENTATION		
Task	Hazard/ Risk (What are the hazards and risks?)	Method of Control (How will hazards and risks be controlled?)	Risk after Control
Pre-Start □	Lack of information provided to workers which may result in injury or illness.	<ul> <li>□ Pre-start briefing to ensure all staff are fully aware of the scope of work before work commences.</li> <li>□ Ensure all persons have undertaken WH&amp;S induction.</li> </ul>	14
Motor vehicle traffic  Compliance with the Manual of Uniform Traffic Control Devices	Risk of injury or death from contact with motor vehicles. Risk of injury or death from contact with cranes or loads. Injury or death from contact with moving plant.  Risk of injury or death from contact with motor vehicles. Risk of injury or death from being struck by rail traffic.  Risk of injury or death from unauthorised traffic control.	All work will comply with the Manual of Traffic Control Devices some of but not all are listed below  Ensure any control device applied does not become a potential hazard to workers or pedestrians or vehicles.  Correct signage will be identified and displayed before work begins.  Signage devices will be set up at correct distances.  Signage devices will be set up at correct heights.  Signage devices shall be clean and in good condition.  Local speed shall be reduced to the required level (40 kph when clearance to traffic is less than 1.2m).  Vehicle travelled path shall be clearly identified and maintained.  Only accredited traffic controllers shall be used for traffic control.  Traffic controllers shall have their tickets available on site.  Traffic controllers shall be given 15 minute break every 2 hours.  Only trained persons will be given esponsibility for worksite signage.  A Traffic Management Level 2 person shall authorise the site signage.  Records should be kept for all work site	112 112
Placement/ Removal /maintenance of signs  Compliance with the Manual of Uniform Traffic Control Devices	Risk of injury or death from contact with motor vehicles.	park vehicle clear of roadway.  Vehicle warning device displayed (sight distance to device: >150m 60km/h or lower, > 250m elsewhere)  Workers to wear Hi-Vis clothing.  Observe safe manual handling techniques.  Face oncoming traffic, spotter should be used when necessary.  Survey area for hazards: Bites/stings, slips/trips, weather  Utilize footpaths/verges.  Two-way communication utilised when	18

		necessary.  No crossing of roads when carrying signage.  Place signs as per MUTCD Part 3, in sequence, one side at a time.  Supervisors monitor safe placement/removal of signs.	18
Pedestrians (Public Safety)	Risk of injury or death from contact with motor vehicles. Risk of injury from uneven temporary footpaths.	<ul> <li>☐ Install safety barriers where necessary.</li> <li>☐ Where required clearly marked alternative safe laneways shall be made available for pedestrians.</li> <li>☐ Laneways crossing kerb and channelling shall have non-slip ramps suitable for wheelchairs, baby strollers, pedestrian scooters and aged or disabled persons.</li> </ul>	12
Poor light, Long term works.	Risk of injury or death from contact with motor vehicles.	Where long-term works exist (more than one shift) correct suitable delineation (e.g. Flashing lights or reflecting bollards) shall be installed and checked by a responsible person at the end of each shift.  Workers operating in poor / low light conditions shall wear high visibility day / night garments.	L8-
Short term works. Mowing, Garbage Collection, Pothole Patching, Herbicide Spraying, Sign Repairs.	Risk of injury or death from contact with motor vehicles.	□ Signage to conform to Manual of Traffic Centrol devices.  Vehicles to have warning devices (e.g. flashing lights, vehicle signage e.g. vehicle frequently stopping.)  □ All workers to wear correct high visibility elothing.  □ Safety devices (e.g. traffic cones) to be used around high risk work sites (e.g. traffic islands)  ■ Mowers to be used with shute away from traffic.	18
k near railway	Risk of injury or death from contact with motor vehicles. Risk of injury or death from being struck by rail traffic.	Railway controlling authority shall be contacted before work begins within the authorities boundaries.  Work will not start until permission is granted from controlling authority.  Work will conform to controlling authority's guidelines.	
P.P.E	Risk of injury or death from contact with motor vehicles. Risk of injury or death from being struck by rail traffic.	All workers shall wear high visibility garments that comply with the Manual for Uniform Traffic Control Devices. (Persons with faded garments shall wear reflective vests).  Vests shall be correctly secured when worn.  P.P.F. shall be identified and worn	L12
Public Safety	Risk to the public of injury or death from contact with motor vehicles. Risk to the public of injury or death from being struck by rail traffic.	☐ Keep unauthorised persons out of the work site ☐ Instigate Traffic Management Plans and Traffic Control if necessary. ☐ Reduce vehicle speed around the work site.	112

	High Risk Construction Work that:	
A separate Work Method Statement that identifies the task hazards, risks and the methods to control the risks is attached for the work ticked	<ul> <li>□ Involves a risk of a person falling more than 2 metres</li> <li>□ Is carried out on a telecommunication tower</li> <li>□ Involves demolition of an element of a structure that is load –bearing or otherwise related to physical integrity of the structure.</li> <li>□ Involves, or is likely to involve, the disturbance of Asbestos.</li> <li>□ Involves structural alterations or repairs that require temporary support to prevent collapse.</li> <li>□ Is carried out in or near a confined space.</li> <li>□ Is carried out in or near a shaft or trench with an excavated depth greater than 1.5 metres, or a tunnel.</li> <li>□ Involves the use of explosives.</li> <li>□ Is carried out on or near pressurised gas distribution mains or piping.</li> <li>□ Is carried out on or near chemical, fuel or refrigerant lines.</li> <li>□ Is carried out on or near energised electrical installations or services.</li> <li>□ Is carried out in an area that may have a contaminated or flammable atmosphere.</li> <li>□ Involves tilt-up precast concrete</li> <li>□ Is carried out in or adjacent to a road, railway, shipping lane or other traffic corridor that is used by traffic other than pedestrians.</li> <li>□ Is carried out in a workplace in which there is any movement of powered mobile plant.</li> <li>□ Is carried out in an area where there are artificial extremes of temperature</li> <li>□ Is carried out in or near water or other liquid that involves a risk of drowning.</li> </ul>	
	Involves diving work.	
Other (please state)		
MONITORING OF SIT	E CONTROLS	
Inspections	Supervisor to check that pre start checks are completed in log books or check sheets before work commences.  Exclusion zones and hazard warning signs (where required) be displayed before work commences.  Effective reliable communications available on site.  Check barricading is in place each day.	:
Orgoing monitoring	Ongoing risk assessments are conducted during the project and discussed at toolbox meetings.  The Site Supervisor will hold regular Toolbox meetings to discuss changes to the workplace or identification of new hazards.  Internal / External audits and inspections by Supervisor, WHSA, WHSO and others.	
Review	This SWMS has been reviewed for this particular construction project. Date of review: 08/01/2016	

## **FURTHER ON-SITE CONTROLS**

Task Hazard /Risk	Methods of Control		

#### **Related Documents**

Work Health & Safety Act 2011

Work Health & Safety Regulation 2011

Manual of Traffic Control Devices (Part 3 – work on roads)

Released under Right to Ir

Traffic Management for Construction or Maintenance Work Code of Practice 2008 MUTCD

FCRC Released under Right to Information Act 2009

Name (Please print)	Signature	Date	16
		Date	I have been consulted about this
			Safe Work Method
			Statement.
			Please circle response
a lastore	Mill	6-3-17	Y)N
Doch Muster	M~	7.3.17	A) N
JWellmofor	JUMMA	7-3-17	N N
GPOPPI	a Million	7-2-17	(Ÿ)/ N
B Coinston	Office	7-2-17	D/N
Kim Empson	All	7-3 -17	(Ŷ) / N
MALCONM ZIPF	IN A right	7 3 - 17	(A)/ N
964 PETERS	19/20	7-3-17	Ø/N
Profee	R	7-5-77	
P. Coopen	V	11 11	(Y)/ N
T cozens	100	Ser ii	<b>⊘</b> / N
ROB AMBROSE	Ah.	7 - 3-1>	(P) N
Danay Trivey	Q 10	7-317	Ý/ N
Fayson Wese titingion	fr.	7-3-17	@/ N
Chris Cecil	Recit	7-3-17	Ø/ N
Jim Pellant	W.	8-3-17	(Y)/ N
Acian Broom,	Kros	"	
Dyon Chardon	M NOT	9/7/17	Y) N
P. Lewis.		ラ・ラ・ノウ	Y) N
Bellochlan &	Lectachan	14/2/17	Ø/N
Norther S		13/8/17	6/ N
1 Phill Yenne	man man man man man man man man man man	17/3/17	(Y)/ N
D Granger -	Del	11/11	Y/ N
Donathan Thomas	Momo	16/3/17	<b>⊘</b> / N
Venis Vella	Delle	16/3/17	Ø/N
Charler	Till	30-5-17	Ø/ N
Angui Roe,	aunill	VI	∅ / N
Ada Harls	m	11 11	P

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DOCS#2101009 v4

// . MINOS



## Job No 11961958

Phone: 1100 www.1100.com.au

#### **Caller Details**

Contact:

Mrs Sammie Doyle

Company:

Fraser Coast Regional Council

Address:

47 Ellengowan Street

Urangan QLD 4655

Caller Id: 1621743

Phone: 0741974622

Mobile: Not Supplied Fax:

Not Supplied

Email:

sammie.doyle@frasercoast.qld.gov.au

#### Dig Site and Enquiry Details

WARNING: The map below only displays the location of the proposed dig site and does not display any asset owners' pipe or cables. The area highlighted has been used only to identify the participating asset owners, who will send information to you directly.

**User Reference:** 

Shellcot Street

Working on Behalf of: Fraser Coast Regional Council

**Enquiry Date:** 

**Start Date:** 

End Date:

03/03/2017

07/03/2017

07/04/2017

Address:

Shellcot Street Toogoom QLD 4655

Job Purpose:

Excavation

Onsite Activity:

Mechanical Excavation

Location of Workplace: Location in Road:

Both

CarriageWay, Footpath, Nature Strip

 Check that the location of the dig site is correct. If not you must submit a new enquiry.

Should the scope of works change, or plan validity dates expire, you must submit a new enquiry.

Do NOT dig without plans. Safe excavation is your responsibility. If you do not understand the plans or how to proceed safely, please contact the relevant asset owners.

**Notes/Description of Works:** 

Oregan Creek Rd

Not Supplied

Coords

## Your Responsibilities and Duty of Care

• If plans are not received within 2 working days, contact the asset owners directly & quote their Sequence No.

• ALWAYS perform an onsite inspection for the presence of assets. Should you require an onsite location, contact the asset owners directly. Please remember, plans do not detail the exact location of assets.

Pothole to establish the exact location of all underground assets using a hand shovel, before using heavy machinery.

• Ensure you adhere to any State legislative requirements regarding Duty of Care and safe digging requirements.

If you damage an underground asset you MUST advise the asset owner immediately.

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By using this service, you agree to Privacy Policy and the terms and disclaimers set out at www.1100.com.au

• For more information on safe excavation practices, visit www.1100.com.au

#### **Asset Owner Details**

The assets owners listed below have been requested to contact you with information about their asset locations within 2 working days. Additional time should be allowed for information issued by post. It is your responsibility to identify the presence of any underground assets in and around your proposed dig site. Please be aware, that not all asset owners are registered with the Dial Before You Dig service, so it is your responsibility to identify and contact any asset owners not listed here directly.

\*\* Asset owners highlighted by asterisks \*\* require that you visit their offices to collect plans.

# Asset owners highlighted with a hash require that you call them to discuss your enquiry or to obtain plans.

# Asset Owners migringines with	Phone	Status
Seq. No. Authority Name 59360708 Ergon Energy, Maryborough	131046	NOTIFIED
59360707 Fraser Coast Regional Council	1300794929	NOTIFIED
59360709 Telstra QLD, Regional	1800653935	NOTIFIED

END OF UTILITIES LIST

## **Underground Electrical Equipment Location Details - Assets Found**



То:	Mrs Sammie Doyle	DBYD Inquiry/Referral No: 59360708
Company:	Fraser Coast Regional Council	Date: 3/03/2017 10:54:00 AM
Address:	47 Ellengowan Street Urangan QLD 4655	From: Ergon Energy Region: Ergon WB
Fax No:	Not Supplied	Telephone: 13 10 46 or 13 2296 (Fault Calls)

#### THIS RESPONSE IS APPLICABLE ONLY FOR ERGON ENERGY ELECTRICITY

#### It is Important that you note:

- That in addition to underground cables marked on attached plan there maybe underground Substation earth conductors, M.E.N. Conductors, S.W.E.R. Substation Earth Conductors, ABS Earth Mats, or Consumers Mains in the vicinity.
- This advice does not identify the presence of private underground cables that may run from Ergon Energy mains to consumer's premises Jer Right to Info

#### Further Comments:

In response to your application, Ergon Energy provides the attached copy of existing records showing the approximate location of known Ergon Energy underground electrical equipment within the vicinity of:

Location address: Shellcot Street

Private/Road/Both: B **Activity Code:** 

Suburb/Town: Toogoom QLD 4655

UBD Map/Ref: Q659\_13\_46,Q659\_13\_56,Q659\_13\_57

7/03/2017 12:00:00 AM Start Date:

## **Terms and Conditions**

#### Responsibilities When Working in the Vicinity of Ergon Energy Underground Electrical Equipment

Extreme care must be taken during non-mechanical or mechanical excavation as damage to Ergon Energy underground electrical equipment can lead to injury or death of workers or members of the public.

Everyone has a legal "Duty of Care" to ensure safety which must be observed, particularly when working in the vicinity of underground electrical equipment. Underground electrical equipment includes underground cables, conduits and other associated underground equipment. When discharging this "Duty of Care" in relation to Ergon Energy underground electrical equipment, the following points must be considered:

It is the responsibility of the architect, consulting engineer, developer, and principal contractor in the project planning stages to design for minimal impact and protection of Ergon Energy underground electrical equipment.

Check this is the latest Process Zone version before use.

Page 1 of 3

Form BS001405F114 Ver 2

# **Underground Electrical Equipment Location Details - Assets Found**



Ergon Energy will provide free plans showing the presence of the underground electrical equipment to assist at this design stage.

- 2. It is the constructor's responsibility to:
  - a. Obtain DBYD plans of Ergon Energy underground electrical equipment for a particular location at a reasonable time before civil work begins.
  - b. Visually locate Ergon Energy underground electrical equipment by non-mechanical excavation (potholing) when civil work activities may damage or interfere with Ergon Energy underground electrical equipment.
  - c. If Ergon Energy underground electrical equipment is wholly or partly affected by planned civil work activities, contact Ergon Energy on 13 10 46 and request Safety Advice.

A constructor may include but not limited to designer, project manager, installer, contractor, civil contractor.

3. The alignments and boundaries contained within Ergon Energy plans and maps will sometimes differ from present alignments and boundaries "on the ground". Accordingly, in every case where it appears that alignments and boundaries have shifted, or new road ways have been added, the constructor should obtain confirmation of the actual position of Ergon Energy cables and pipelines. In no case should the constructor rely on statements of third parties in relation to the position of Ergon Energy cables and pipelines.

#### **Conditions of Supply of Information**

- Plans and details provided by Ergon Energy are current for 4 weeks from the date of dispatch and should be disposed of by shredding or any other secure disposal methods after use.
- Ergon Energy agrees to provide free plans if an Ergon Energy underground electrical equipment location request is
  made to Freecall "1100" (Dial Before You Dig DBYD) only on the basis that at least 2 business days' notice is
  given and the DBYD applicant agrees to the terms of this agreement. Ergon Energy does not provide information on
  private underground installations.
- · Ergon Energy retains copyright of all plans and details provided in connection to your request.
- Ergon Energy plans or other details are provided for the use of the DBYD applicant, its servants, or agents, for the sole purpose of the applicant's responsibilities in relation to Ergon Energy underground electrical equipment and shall not be used for any other purpose.
- Ergon Energy plans are circuit diagrams only and indicate the presence of underground electrical equipment in the
  general vicinity of the geographical area shown. It is important to note that exact ground cover and alignments
  cannot be given with any certainty as such levels can change over time. The plans do not pinpoint the exact
  location of cables.
- On receipt of DBYD plans and before commencing excavation work or similar activities near Ergon Energy's
  underground electrical equipment, check to see that it relates to the area you have requested and carefully locate
  this underground electrical equipment first to avoid damage. If you are unclear about any information contained on
  the plan, please contact Ergon Energy on 13 10 46 for further advice.
- Ergon Energy, its servants or agents shall not be liable for any loss or damage caused or occasioned by the use of
  plans and of details so supplied to the DBYD applicant, its servants or agents, and the DBYD applicant agrees to
  indemnify Ergon Energy against any claim or demand for any such loss or damage to the DBYD applicant, its
  servants, or agents or to any third party.
- The constructor is responsible for all underground electrical equipment damaged when works commence prior to
  obtaining Ergon Energy plans, or at any time after that for failure to follow agreed instructions contained in this
  document or any other advice provided by Ergon Energy.
- By undertaking any work, you acknowledge that Ergon Energy reserves all rights to recover compensation for loss
  or damage to Ergon Energy caused by interference or damage, including consequential loss and damage to its
  cable network, or other property.
- Be aware that some underground conduits may contain asbestos. Refer to "Code of Practice for the Management and Control of Asbestos in Workplace [NOHSC;2018 (2005]" for guidance.

## When working in the vicinity of Ergon Energy underground electrical equipment, you must observe the following conditions:

#### Records

The first step before any excavation commences is to obtain records of Ergon Energy underground electrical equipment in the vicinity of the work (from DBYD). For new work, records should be obtained during the planning and design stage. The records provided by Ergon Energy must be made available to all relevant work groups on site. Where Ergon Energy underground electrical equipment information is transferred to plans for the proposed work, care must be exercised that important detail is not lost in the process.

#### **Location of Cables**

Examining the records is not sufficient, as reference points may change from the time of installation. Records must also be physically proven when working in close proximity to them. The exact location of underground electrical equipment likely to be affected shall be confirmed by use of an electronic cable locator followed by careful non mechanical excavation to the level of concrete slabs or conduits. Non mechanical excavation (potholing) must be used in advance of excavators. In any case, where doubt exists with respect to interpretation of cable records, contact Ergon Energy on 13 10 46 for further advice.

Check this is the latest Process Zone version before use.

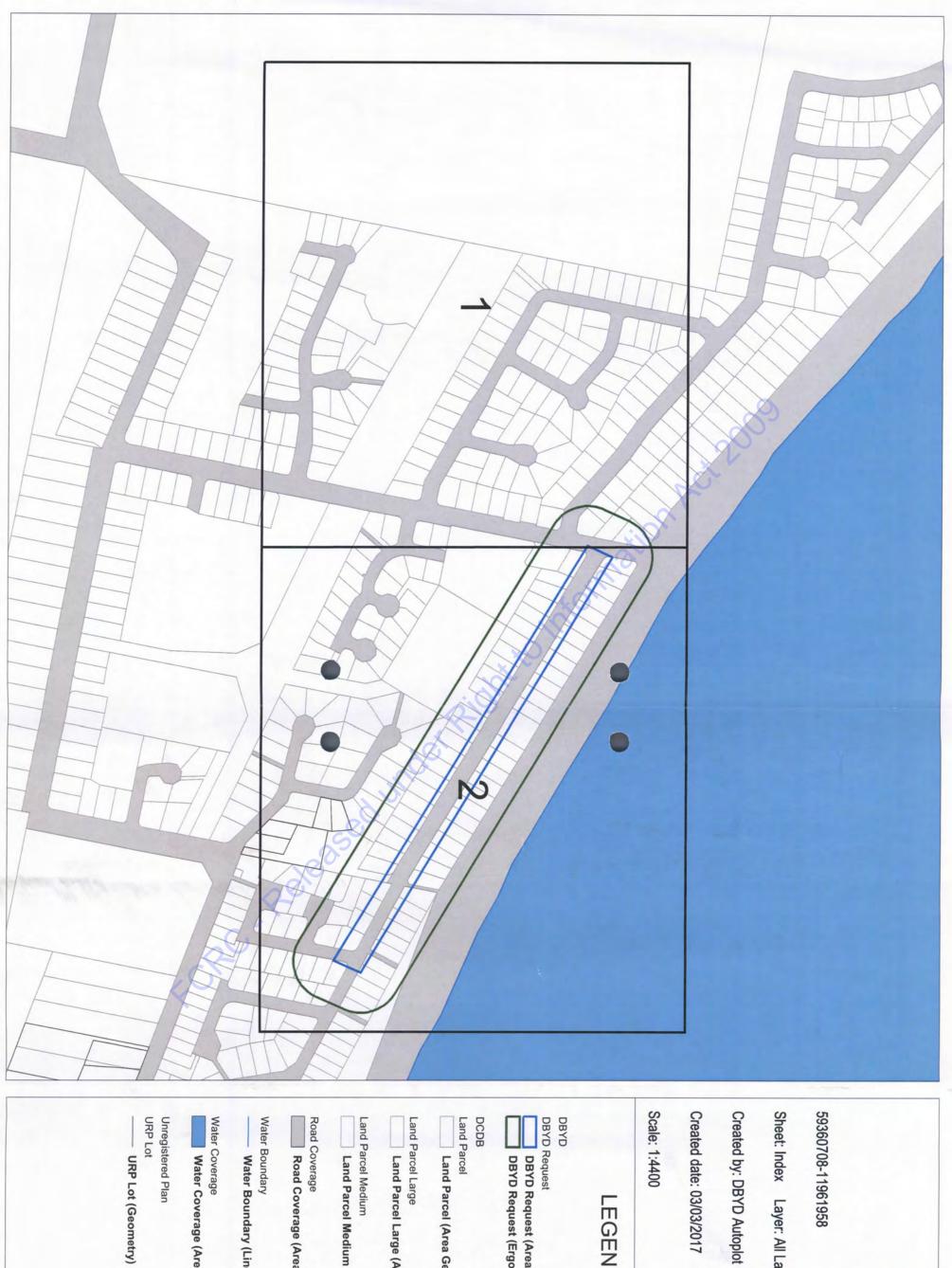
Page 2 of 3

Form BS001405F114 Ver 2

## **Underground Electrical Equipment Location Details - Assets Found**



- If during excavation, cables or conduits are damaged:
  - Call Ergon Energy Fault Call on 13 22 96 to report damaged cables or conduits.
  - Treat cables as if alive, post a person to keep all others clear of the excavation until Ergon Energy crew attend to make safe.
- If <u>unknown</u> cables or conduits (i.e. not shown on issued DBYD plans) are located during excavation:
  - Call Ergon Energy Fault Call on 13 22 96 to report
  - Treat cables as if alive, post a person to keep all others clear of the excavation until Ergon Energy crew attend to make safe.
- inominal in nominal in If the constructor is unable to locate Ergon Energy underground assets within 2.5 metres of nominal plan



Sheet: Index Layer: All Layers

Created date: 03/03/2017 09:56:39

# LEGEND

DBYD Request (Area)

DBYD Request (Ergon Search Area)

Land Parcel (Area Geom)

Land Parcel Large
Land Parcel Large (Area Geom)

Land Parcel Medium (Area Geom)

Road Coverage (Area Geom)

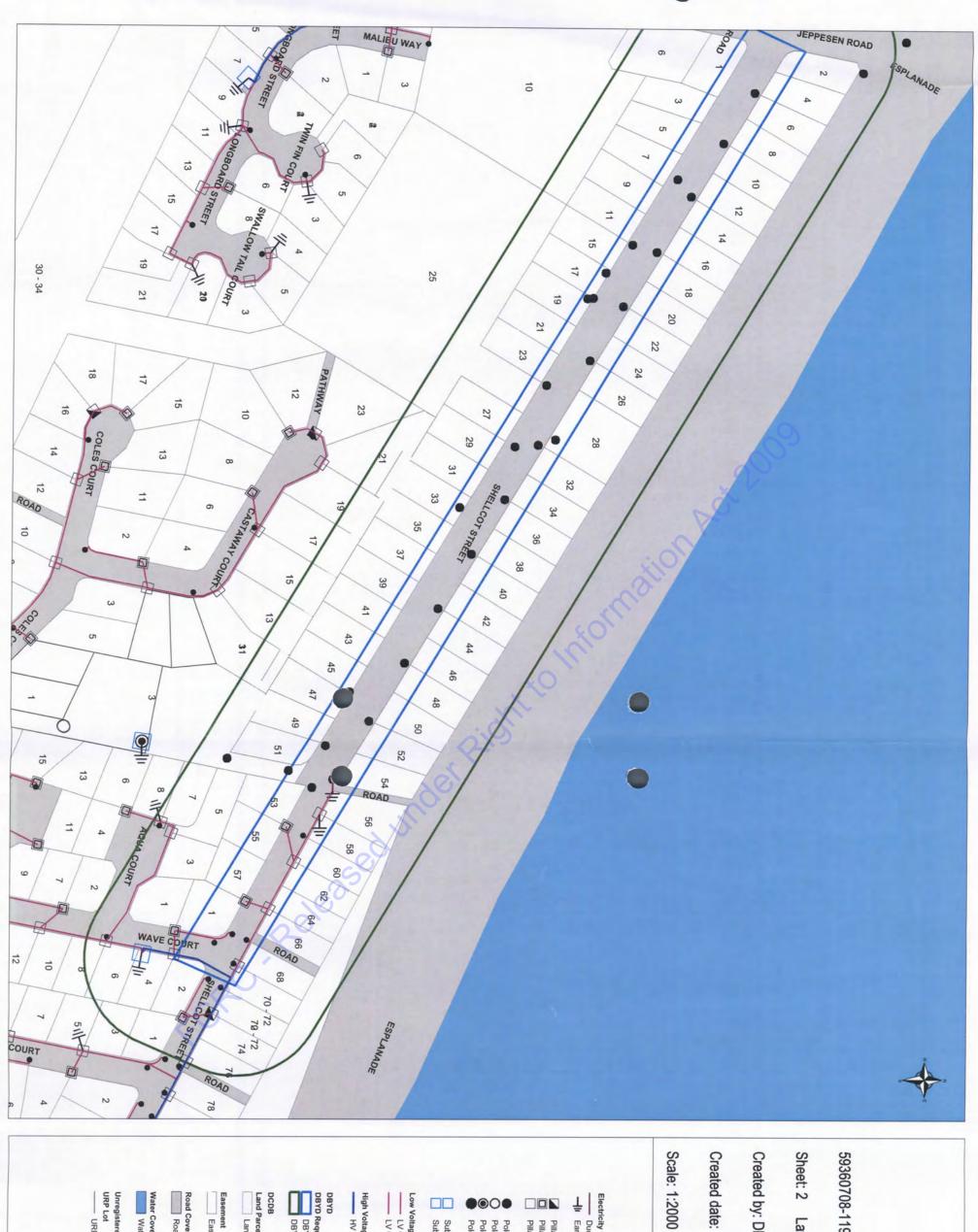
Water Boundary (Line Geom)

Water Coverage (Area Geom)

RTI 2017/18-003 282



RTI 2017/18-003 283



59360708-11961958

Sheet: 2 Layer: All Layers

Created by: DBYD Autoplot

Created date: 03/03/2017 09:56:50

LEGEND

Duct - as constructed
Li Earth - as constructed

Pillar - Link Pillar Pillar - Cross Road Pillar Pillar - Normal Pillar

Pole - SL Pole - HV Pole - HV/LV Pole - LV

Substation -Substation - Unknown

High Voltage

HV Cable - as constructed (11kv) LV Cable - as constructed ( 240v)

LV Cable - as constructed ( 415v)

DBYD Request (Area)

DBYD Request (Ergon Search Area)

Land Parcel (Area Geom) Easement (Area Geom)

Unregistered Plan - URP Lot (Geometry)

Road Coverage (Area Geom)

RTI 2017/18-003 284



**T**elstra

For all Telstra DBYD plan enquiries email - Telstra.Plans@team.telstra.com For urgent onsite contact only - ph 1800 653 935 (bus h

TELSTRA CORPORATION LIMITED A.C.N. 051 775 556

Generated On 03/03/2017 11:01:55

Sequence Number: 59360709

CAUTION: Critical Network Route in plot area.
DO NOT PROCEED with any excavation prior to seeking advice from Telstra Plan Services on:
1800 653 935

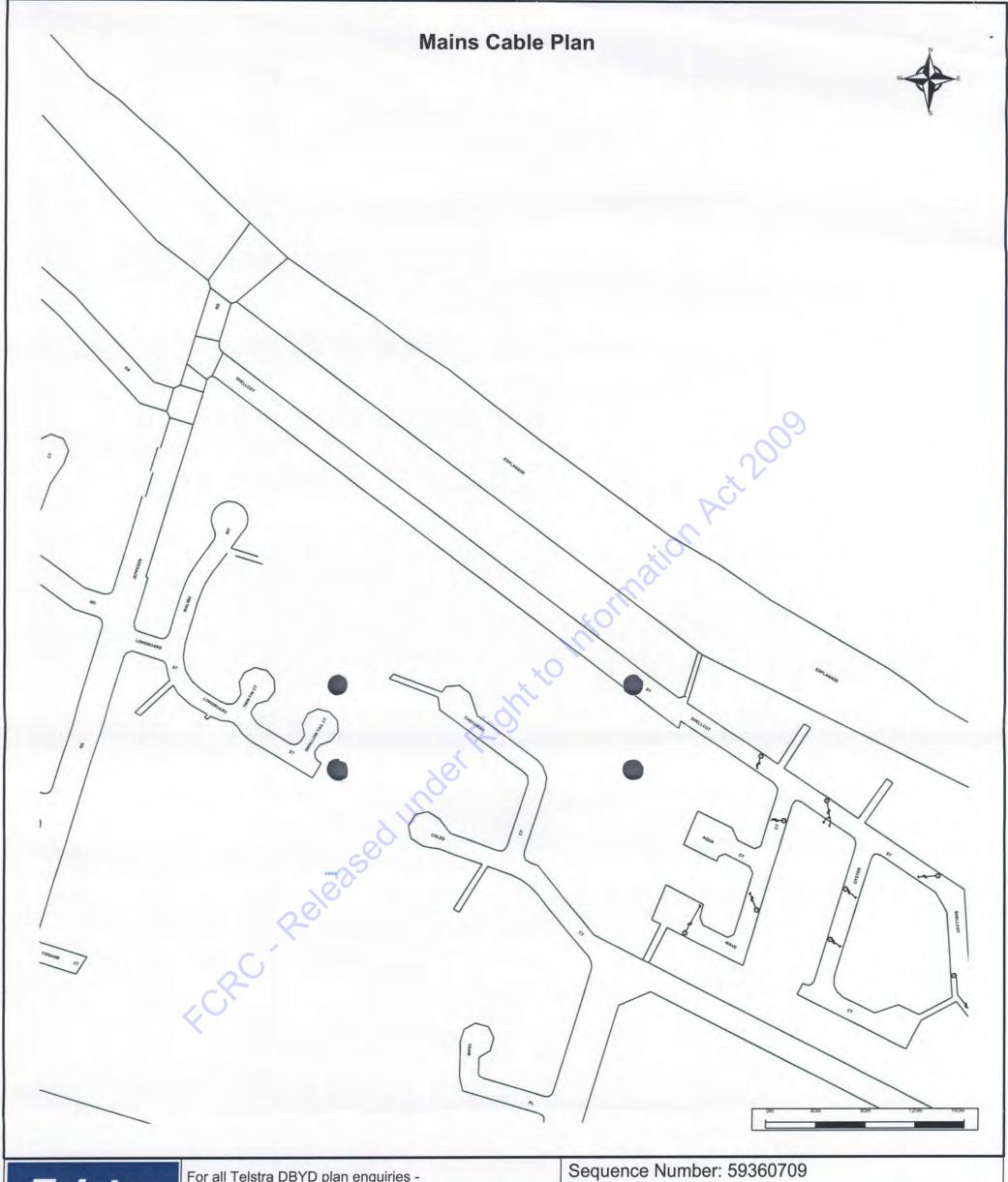
## The above plan must be viewed in conjunction with the Mains Cable Plan on the following page

WARNING - Due to the nature of Telstra underground plant and the age of some cables and records, it is impossible to ascertain the precise location of all Telstra plant from Telstra's plans. The accuracy and/or completeness of the information supplied can not be guaranteed as property boundaries, depths and other natural landscape features may change over time, and accordingly the plans are indicative only. Telstra does not warrant or hold out that its plans are accurate and accepts no responsibility for any inaccuracy shown on the plans.

It is your responsibility to locate Telstra's underground plant by careful hand pot-holing prior to any excavation in the vicinity and to exercise due care during that excavation.

Please read and understand the information supplied in the duty of care statement attached with the Telstra plans. TELSTRA WILL SEEK COMPENSATION FOR LOSS CAUSED BY DAMAGE TO ITS PLANT.

Telstra plans and information supplied are valid for 60 days from the date of issue. If this timeframe has elapsed, please reapply for plans.



**T**elstra

For all Telstra DBYD plan enquiries email - Telstra.Plans@team.telstra.com For urgent onsite contact only - ph 1800 653 935 (bus hrs)

TELSTRA CORPORATION LIMITED A.C.N. 051 775 556

Generated On 03/03/2017 11:01:58

CAUTION: Critical Network Route in plot area. DO NOT PROCEED with any excavation prior to seeking advice from Telstra Plan Services on: 1800 653 935

WARNING - Due to the nature of Telstra underground plant and the age of some cables and records, it is impossible to ascertain the precise location of all Telstra plant from Telstra's plans. The accuracy and/or completeness of the information supplied can not be guaranteed as property boundaries, depths and other natural landscape features may change over time, and accordingly the plans are indicative only. Telstra does not warrant or hold out that its plans are accurate and accepts no responsibility for any inaccuracy shown on the plans.

It is your responsibility to locate Telstra's underground plant by careful hand pot-holing prior to any excavation in the vicinity and to exercise due care during that excavation.

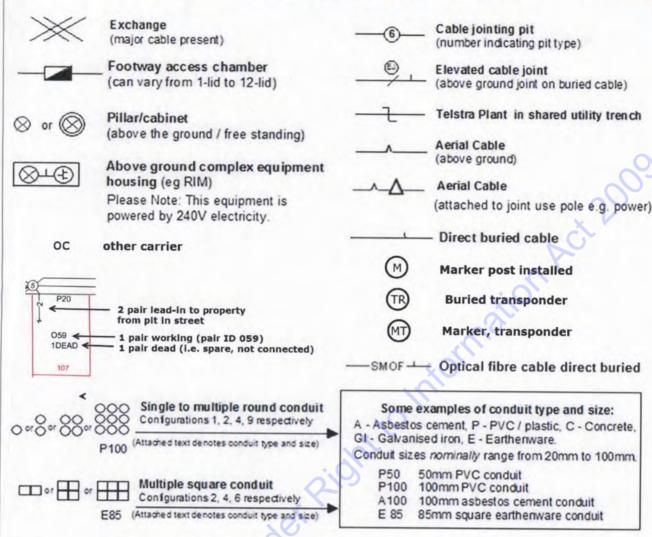
Please read and understand the information supplied in the duty of care statement attached with the Telstra plans. TELSTRA WILL SEEK COMPENSATION FOR LOSS CAUSED BY DAMAGE TO ITS PLANT.

Telstra plans and information supplied are valid for 60 days from the date of issue. If this timeframe has elapsed, please reapply for plans.

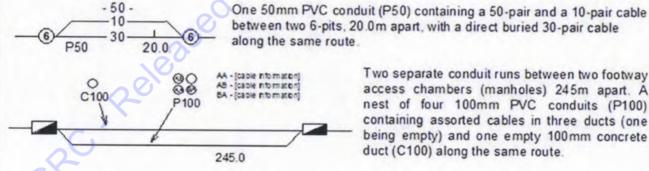
## LEGEND

For more info contact a Telstra Accredited Locater or Telstra Plan Services 1800 653 935





Some examples of how to read Telstra plans:



Two separate conduit runs between two footway access chambers (manholes) 245m apart. A nest of four 100mm PVC conduits (P100) containing assorted cables in three ducts (one being empty) and one empty 100mm concrete duct (C100) along the same route.

WARNING: Telstra plans and location information conform to Quality Level 'D' of the Australian Standard AS 5488 - Classification of Subsurface Utility Information. As such, Telstra supplied location information is indicative only. Spatial accuracy is not applicable to Quality Level D. Refer to AS 5488 for further details. Telstra does not warrant or hold out that its plans are accurate and accepts no responsibility for any inaccuracy shown on the plans. FURTHER ON SITE INVESTIGATION IS REQUIRED TO VALIDATE THE EXACT LOCATION OF TELSTRA PLANT PRIOR TO COMMENCING CONSTRUCTION WORK. A plant location service is an essential part of the process to validate the exact location of Telstra assets and to ensure the asset is protected during construction works. The exact position of Telstra assets can only be validated by physically exposing it. Telstra will seek compensation for damages caused to its property and losses caused to Telstra and its customers.



### Job No 11274122

Phone: 1100 www.1100.com.au

17/11/2016

#### **Caller Details**

Caller Id: 1618210 Contact: Ms Jenny Winton Phone: 07 4197 4600 Company: Fraser Coast Regoanl Council Mobile: Not Supplied Fax: 07 4197 4455

Address: PO Box 1943, HERVEY BAY QLD 4655 41-47 E Email: jenny.winton@frasercoast.qld.gov.au

Urangan QLD 4655

#### Dig Site and Enquiry Details

WARNING: The map below only displays the location of the proposed dig site and does not display any asset owners' pipe or cables. The area highlighted has been used only to identify the participating asset owners, who will send information to you directly.



Notes/Description of Works:

Not Supplied

**User Reference:** Not Supplied Working on Behalf of:

Fraser Coast Regional Council **Start Date: End Date: Enquiry Date:** 22/09/2016

Address: Shellcot Street Toogoom OLD 4655

Job Purpose: Excavation

Onsite Activity: Mechanical Excavation

Location of Workplace: Road Reserve

Location in Road: CarriageWay, Footpath, Nature Strip

24/09/2016

- · Check that the location of the dig site is correct. If not you must submit a new enquiry.
- Should the scope of works change, or plan validity dates expire, you must submit a new enquiry.
- · Do NOT dig without plans. Safe excavation is your responsibility. If you do not understand the plans or how to proceed safely, please contact the relevant asset owners.

#### Your Responsibilities and Duty of Care

- If plans are not received within 2 working days, contact the asset owners directly & quote their Sequence No.
- ALWAYS perform an onsite inspection for the presence of assets. Should you require an onsite location, contact the asset owners directly. Please remember, plans do not detail the exact location of assets.
- · Pothole to establish the exact location of all underground assets using a hand shovel, before using heavy machinery.
- · Ensure you adhere to any State legislative requirements regarding Duty of Care and safe digging requirements.
- If you damage an underground asset you MUST advise the asset owner immediately.
- By using this service, you agree to Privacy Policy and the terms and disclaimers set out at www.1100.com.au
- For more information on safe excavation practices, visit www.1100.com.au

#### **Asset Owner Details**

The assets owners listed below have been requested to contact you with information about their asset locations within 2 working days. Additional time should be allowed for information issued by post. It is your responsibility to identify the presence of any underground assets in and around your proposed dig site. Please be aware, that not all asset owners are registered with the Dial Before You Dig service, so it is your responsibility to identify and contact any asset owners not listed here directly.

\*\* Asset owners highlighted by asterisks \*\* require that you visit their offices to collect plans.

# Asset owners highlighted with a hash require that you call them to discuss your enquiry or to obtain plans.

Seq. No.	Authority Name	Phone	Status
55830831	Ergon Energy, Maryborough	131046	NOTIFIED /
55830832	Telstra QLD, Regional	1800653935	NOTIFIED /
55830833	Wide Bay Water Corporation	0741947625	NOTIFIED /

END OF UTILITIES LIST

# ATTACHMENT D - TRAFFIC MANAGEMENT PLAN

### To include:

- Traffic Management Plan
- Site Signage Record Sheets (multiple copies for use in the field)

FCRC. Released under Right to Information Act. 2009

Date: 06/03/2017 Author: Selwyn Pohoiwi Project: Shellcot Street Shoulder ReffWhbinvarion.com Rev #: 1 TMD Number: OP 242 MUTCD 2016 Diagram: 4 TGS: FCRC-SHELLCOT-002-2016

Comments:

= Frager Coast

Works To Include: Road Refurbishment on shoulders

One side to be done at any one time.

Works to take place between - 0700 - 1700hrs Daily

Any conflicting signs to be covered whilst works in progress and be uncovered upon signage removal.

- Positioning of signs to be in accordance with clause 2.5.2 MUTCD part 3 2016 Short Term (Progressing Works Areas)

- All speeds to be reinstated in end road work signs else End 40
- Clearance to objects as per annexure MRTS02.1 Cl. 5 .1
- Min Width Of lane shall be 3.0 m (Clause 4.13.3) MUTCD part 3 2016

- All Workman signage to be closed when works not in progress.

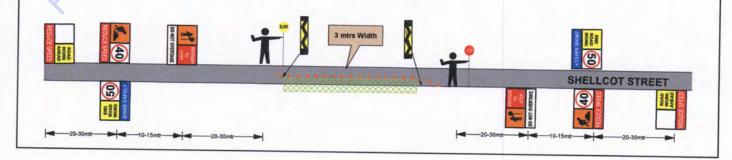
- Flagman to be in constant UHF contact at all times.

- Traffic to be held a Max of 5mins at a time.

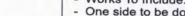
# LOCATIONS







Date: 06/03/2017 Author: Selwyn Pohoiwi Project: Shellcot Street Shoulder Reffuncion.com Rev #: 1 TMD Number: OP 242 MUTCD 2016 Diagram: 4
TGS: FCRC-SHELLCOT-001-2016
Comments: Works To Include: Road Refurbishment on shoulders



= Frajer Coast

One side to be done at any one time.

Works to take place between - 0700 - 1700hrs Daily

Any conflicting signs to be covered whilst works in progress and be uncovered upon signage removal.

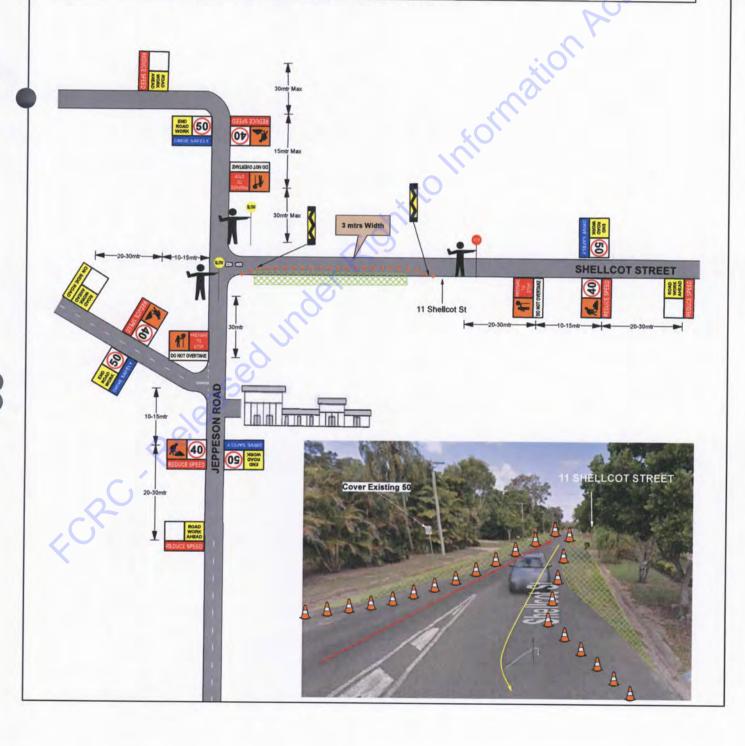
- Positioning of signs to be in accordance with clause 2.5.2 MUTCD part 3 2016 Short Term (Progressing Works Areas)

- All speeds to be reinstated in end road work signs else End 40
- Clearance to objects as per annexure MRTS02.1 Cl. 5.1
- Min Width Of lane shall be 3.0 m (Clause 4.13.3) MUTCD part 3 2016

- All Workman signage to be closed when works not in progress.

- Flagman to be in constant UHF contact at all times.

- Traffic to be held a Max of 5mins at a time.



# SITE SIGNAGE RECORD SHEET

Street:	Suburb:
Date: Time Installed:	am / pm Time Removed:am / pm
Lane closed: Left / Centre / Right	Direction: Inbound / Outbound
Lane closure changes required: Yes / No	Lane changed to: Left / Centre / Right
Visibility: Good / Poor	Weather conditions: Fine / Dry / Wet / Cloudy / Fog / Night / Ice / Smoke

Note: For night conditions signs must be retroflective
For night conditions traffic cones must have retroflective bands fitted

Sign Description	Number	Distan	ce from us sign	ius nitt		Checked	]
	installed	East	West	1	2	3	4
ROADWORK 1km AHEAD			1				1
ROADWORK AHEAD		4.0					<del>                                     </del>
NIGHT - Supplementary plate for night work		19.	)	f			
80kph – Speed reduction sign							
ROAD PLANT AHEAD		.0.					
WORKERS AHEAD	X						-
60kph - Speed reduction sign	.//						
REDUCE SPEED	~(0)						
TWO LANE STATUS	( )						<u> </u>
THREE LANE STATUS							
FOUR LANE STATUS							
LATERAL SHIFT MARKERS					-		
TRAFFIC CONTROLLER AHEAD					<u> </u>		
STOP / SLOW BAT							
PARE TO STOP	•					-	
THAFFIC SIGNALS AHEAD	94.						
STOP HERE ON RED SIGNAL							
PORTABLE TRAFFIC SIGNALS			1				
TRAFFIC CONES - 700 mm						-	
TRAFFIC CONES - 450 mm							
TRAFFIC CONES - 300 mm (linemarking only)	-			***			
END ROADWORK							
SPEED SIGN – restored to appropriate limit			-				
TRACTOR / SLASHER AHEAD - symbolic							
GRADER AHEAD				-1-			
PROBABLE DELAY 15 MINUTES							
SIGNALS UNDER REPAIR		**					
POLICE CONTROL AHEAD							
VARIABLE MESSAGE SIGN				<u> </u>	,		-
ARROW BOARD						-	
BARRIER BOARD							
ROAD CLOSED							

DETOUR AHEAD		 			
DETOUR					
END DETOUR			 		
SIDE ROAD CLOSED					
				1.50	
,				1	
- American		 <u></u>	 		

Signature: Date:	
------------------	--

# Ecac. Released under Right to Information Act 2009

Note:

Pages 87 to 126 not scanned as they are identical blank forms like pages 85 and 86

# **ATTACHMENT E - ENVIRONMENTAL MANAGEMENT PLAN**

### To include:

- Environmental management Plan
- Road Construction Site Hazard Inspection Checklist (template docs # 2100798)

FCRC - Released under Right to Information Act. 2009

FCRC. Released under Right to Information Act. 2009



# FRASER COAST REGIONAL COUNCIL

# **INFRASTRUCTURE SERVICES**

# CONSTRUCTION ENVIRONMENTAL MANAGEMENT PLAN



### **ENVIRONMENTAL MANAGEMENT PLAN**

### **PURPOSE**

- 1. To outline the requirements for the work area to minimise any risk of contaminating the surrounding environment with pollutants.
- 2. To minimise impact of the work to the public to the public

### **OBJECTIVES**

The Environmental Management Plan aims to achieve the following objectives:

- Detailed locations of emergency equipment, and methods of use. To incorporate soil and water management
- To incorporate waste management
- To incorporate noise and vibration management
- To incorporate spill management
- To establish the environmental management process involving co-operation between FCRC staff, The Principal, other contractors at the site and subcontractors to ensure understanding of the key environmental issues for this project so that objectives and targets are met. Standard and site specific procedures and equipment for mitigation of environmental damage will be implemented and used.
- To realise optimum performance in the key areas of, piling (noise, disturbance to seabed, water quality) and waste minimisation/disposal to complete this project and achieve a 'nil' recording of environmental incident. To achieve these objectives all site workers will be inducted at site and instructed in their responsibilities of care and reporting and familiarised with environmental safeguards, procedures and forms.

### **STATEMENT**

3. Fraser Coast Regional Council cares about the environment and keeping the work area free of pollutants. By doing this, Fraser Coast Regional Council aims to provide not only a clean, safe work environment for employees, but also to allow a system for co-operation between Fraser Coast Regional Council staff, the Principal, other contractors at the site and subcontractors to ensure understanding of the key environmental issues for this project. This system ensures that objectives and targets are met.

 $DOCSHBCC-\#2383846-V1-Construction\_Environmental\_Management\_Plan\_-\_Infrastructure\_Services. Doc Review Date: 15/07/2013$ 



### **GENERAL ISSUES**

- 4. An Environmental Incident Form is attached as Appendix 1. The Environmental Incident Form is to be completed after an incident involving any of the above mentioned points. Where possible, concerns raised by the public or any personnel involved in the project, will be addressed and appropriate measures taken to rectify the situation.
- 5. At different stages during construction a random site check will be performed by a Fraser Coast Regional Council principal to ensure all items are being addressed. This check will be recorded in the way of a Hazard Inspection Checklist
- 6. Appropriate procedures will be followed in the event of an incident, making full use of all spill kit materials and any other relevant items available. Procedures for incident rectification will be in accordance with the following steps:
  - a. Stop the source of the pollution.
  - b. Contain any pollution already in evidence.
  - c. Prevent any further spread of the pollutant
  - d. Clean up the contaminated site.
  - e. Address the reason for the incident to ensure it does not happen again.
  - f. Complete the appropriate reporting.
- 7. The following table presents Environmental issues that may be incurred by Fraser Coast Regional Council whilst on site, and actions to overcome these issues:

DOCSHBCC-#2383846-V1-Construction\_Environmental\_Management\_Plan\_-\_Infrastructure\_Services.Doc Review Date: 15/07/2013



ISSUE	OBJECTIVE	HOW THE OBJECTIVE WILL BE ACHIEVED. ACTIONS REQUIRED TO ACHIEVE OBJECTIVE	WHEN THE ACTIONS WILL BE TAKEN	WHO WILL ENSURE THAT THE OBJECTIVE IS ACHIEVED	TO BE REPORTED TO
Vehicles and Plant	Exhaust emissions are minimised	<ul> <li>No vehicles or plant producing excessive exhaust emissions will be used (Exhaust must not be visible for more than 10 seconds.)</li> <li>Plant must be well maintained maintenance logbooks and checklists kept inside machinery</li> </ul>	Prior to vehicles entering site.	FCRC	
Emergencies Incident Reporting	All environmental incidents are reported to the Principal's Representative immediately	All environmental incidents are reported to the Principal's Representative immediately	As required.	FCRC	
Emergency Spills	Spills are contained damage to the eco-system minimised and rectification organised	<ul> <li>A fully stocked spill kit of appropriate size will be kept on site at all times.</li> <li>Floating boom in place at all times to contain oil spills</li> <li>All machinery hoses and seals to be in good serviceable condition</li> <li>Ensure all chemicals, fuels and oils are kept in their designated area away from drains and any places that would allow leakage into the water system.</li> <li>When refuelling avoid overfilling tanks and refuel in a contained, well ventilated area with spill kit on hand in case of spillage</li> </ul>	All times.	FCRC, Subcontractors	
Noise Management	Minimise detrimental impact Adhere to EPA, council and other noise limited	All machines/ power tools where applicable will be fitted with noise suppressors to minimise sound during operation. (eg. Compressor fitted with muffler)	Prior to use on site.	FCRC, Subcontractors	



	2 <sup>C</sup>	HOW THE OBJECTIVE WILL BE ACTUEVED ACTIONS DECLINED	WHEN THE	WHO WILL ENSURE THAT	
ISSUE	ОВЛЕСТІVЕ	TO ACHIEVE OBJECTIVE	ACTIONS WILL BE TAKEN	THE OBJECTIVE IS ACHIEVED	TO BE REPORTED TO
Waste disposal	Appropriate and lawful disposal of	Identify lawful places for the disposal of all waste	As required.	FCRC,	
	waste associated with the contract	generated in the contract.		Subcontractors	
	Including:	<ul> <li>Record, for all waste, the method and location of disposal,</li> </ul>			
	Replaced or red indant warts and	and whether or not that location was a place that could			
	materials	Adequate garbage bins to be located in various areas to			
-	Chemicals	make disposal of waste easy for everyone.			
	<ul> <li>Oils and grease from machinery</li> </ul>	<ul> <li>Empty bins promptly once full to prevent overflowing and</li> </ul>			•
	Paints and solvents including the	items blowing away.			
	cleaning of equipment, tools and	<ul> <li>On a daily basis the work site shall have all excess</li> </ul>			
	brushed	materials and rubbish removed leaving the site in a tidy			
	<ul> <li>Cleaning materials and rags</li> </ul>	state.			
	Trade waste	<ul> <li>All effort is to be taken to recycle materials to reduce the</li> </ul>			
	<ul> <li>Materials unsuitable for re-use</li> </ul>	volume of waste on the job.			
		<ul> <li>All dredged material to be lawfully disposed in landfill Tip</li> </ul>			
		receipts provided for all loads			
Water Quality	Keep adjacent waterways free from	<ul> <li>Any item/substance dropped into waterways shall be</li> </ul>	As required.	All	
Management	waste developed during the works	removed as soon as practicable.			-
		<ul> <li>Floating boom to be installed to collect floating debris and</li> </ul>			
		emergency oil spills			
Storm Water		Work site to be kept tidy at all times to prevent the build up of			
Management		possible pollutants. All run off emanating from the			
		construction works area will be effectively filtered. Storm			
		water drainage inlets in the immediate catchment of the	4		
		construction area will require protection by sediment filtering			
		traps. These traps will be cleaned prior to the sediment	P		
		accumulation in the trap reaching a level that reduces the	()		
		effective drainage. All cut off and/or interception drains will	<u></u>		
		also be maintained free of accumulated sediments and	1		

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ISSUE	ОВЈЕСТІVЕ	HOW THE OBJECTIVE WILL BE ACHIEVED. ACTIONS REQUIRED TO ACHIEVE OBJECTIVE	WHEN THE ACTIONS WILL BE TAKEN	WHO WILL ENSURE THAT THE OBJECTIVE IS ACHIEVED	TO BE REPORTED TO
	200	obstructions.			
Air quality management	Adhere to all relevant standards in vair quality management	<ul> <li>Construction will be limited to the hours between 7am to 5pm from Monday to Friday, working within these times will contain the noise pollution affecting any buildings/people surrounding the site to a set period.</li> <li>All plant will be in good serviceable condition to reduce exhaust emissions</li> <li>Any work producing sawdust/ dust will where practical be confined to one area to assist with the clean up process. Ideally this area will be sheltered from any prevailing winds to minimise any air born pollutants entering the surrounding area, with periodic clean ups to remove the sawdust etc.</li> <li>The air pollution created through the construction activities will be closely monitored at all times. FCRC will comply with the criteria outlined in EPA Air Pollution Control Guidelines.</li> <li>SMC will ensure that emission controls on all plant are well maintained and that a maintenance schedule is kept for each plant.</li> </ul>	All times.	FCRC, Subcontractors	
Records	Sufficient records to demonstrate appropriate environmental management  Documentation of notifications and fines from the EPA and the resulting corrective action	This environmental management plan will be submitted to the principals representative  The environmental management plan will be updated when required  The principle's representative will be notified of all EPA action and fines from the EPA and the resulting corrective action	Prior to FCRC commencing on site.	FCRC	



WHO WILL ENSURE THAT THE THE REPORTED TO	OBJECTIVE IS ACHIEVED					
WHEN THE EN ACTIONS WILL		-	All times.	All times.	All times All	PCT 2009
HOW THE OBJECTIVE WILL BE ACHIEVED. ACTIONS REQUIRED TO ACHIEVE OBJECTIVE	Hazard Increation Checklist will be completed against two	nazara inspection checklist will be completed every two weeks	All vehicles and plant will access the site along designated routes	All vehicles and plant will park in designated areas	All pedestrian, materials and equipment will be along approved access routes	to Information Act 2009
OBJECTIVE	2	8	Damage to the ecosystems on site is minimised	Damage to the ecosystems on site is minimised	Damage to the ecosystems on site is minimised	
ISSUE			Vehicle access	Parking of vehicles and plant	Movement of pedestrians, materials and equipment	



# **APPENDIX 1 - Environmental Incident Report Sheet**

# **ENVIRONMENTAL INCIDENT/COMPLAINT REPORT**

Any accident or incident which may impact on the environment MUST be reported Any complaint MUST be recorded and reported

Accident/Incident/Complaint	Date:	Time:	0
LOCATION AND DURATION/SOURCE	OF INCIDENT/CON	MPLAINT	CCL
PERSON REPORTING		 	,017
NATURE/DETAILS OF INCIDENT/COM	MPLAINT/QUANTIT	Y OF POLLUTANTS ETC.	
ACTUAL OR SUSPECTED CAUSE		161	
ACTION TAKEN OR PROPOSED ACTIO	ON – MANAGEMEN	IT & PREVENTION	
CONTRACTOR	79 <sub>6,</sub>		
REPORTED TO EPA (Pollution Lin	e) 13 1555		
Site Superintendent			
SIGNATURE			



# **APPENDIX 2 - HAZARD INSPECTION CHECKLIST - CONSTRUCTION SITE**

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Review Date: 15/07/2013

# **ATTACHMENT F - SITE RECORD**

(To be completed daily)

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Fraser Coast Regional Council PO Box 1943 HERVEY BAY QLD 4655



Infrastructure Delivery Telephone: (07) 4125 9737 Facsimile: (07) 4125 4766

	Site Record
Project:	Contract No
Contractor / Crew:	Date:
Plant & Labour :	, 200
Weather Conditions:	A Co
Site Record	
Signature	Superintendent/Superintendents Representative Date

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## Note:

Pages 133 to 156 not scanned as they are identical blank forms like pages 131 and 132

# **ATTACHMENT G - SITE INSTRUCTION FORM**

(Refer to carbon copy book, for issuing instructions to Contractors / SubContractors)

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ECRC. Released under Right to Information Act. 2009



# FRASER COAST REGIONAL COUNCIL INFRASTRUCTURE SERVICES

# SITE INSTRUCTION

Project:		
Contract No:	Date:	
ssued To:	Instruction No:	9
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ntractor to advise if variation to Conti	ract Sum Results: Yes / No	
nount of Variation:		_
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Pages 161 to 188 not scanned as they are identical blank forms like pages 159 and 160

# **ATTACHMENT H - NON CONFORMANCE REPORT**

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# **NON-CONFORMANCE REPORT**

Report No.	Date
Project Description:	Project No.
Activity:	Category
Lot No:	1. Major or Safety
	2. Minor
1. Nature of Problem and Location	rill'o
	*0
2. Cause of the Problem	
3. Suggested Corrective Action Required	Timeframe for Action
CRC, Pro	
4. Suggested Preventative Action Required	Timeframe for Action

Category

2 An error that all should learn by, advise Supervisor / Manager 5. **Estimated Cost of Rectification** Prepared By: (Name)\_\_\_\_\_ 6. Project Supervisor / Works Coordinator Assessment and Comments (only required for Category 1 - Major or Safety) **Project Supervisor / Works Coordinator Date** 7. **Corrective Action Taken and Comment on Effectiveness** Name (Project Supervisor / Works Coordinator) Date 8. **Preventative Action Taken and Comment on Effectiveness** Name (Project Supervisor / Works Coordinator) Date

May affect job cost, progress or be a legal or safety issue, advise Supervisor / Manager ASAP

1

# **ATTACHMENT I - NON CONFORMANCE REGISTER**

All Non-Conformance Reports are to be listed in the Non-Conformance Register.

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# **NON-CONFORMANCE REGISTER**

Activity Man	ager Sheet No	<del></del>		
Project No	<del></del>			
Project Descr	ription:			
Distribution.	7	<u> </u>		
Report No.	<u>Description</u>	<u>Date</u> <u>Raised</u>	<u>Time</u> <u>frame</u>	<u>Date</u> <u>Closed</u>
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•••••	Signed (Works Coordinator or Manager)	••••••	Date	

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# ATTACHMENT J - PROJECT DEBRIEF & POST CONTRACT REPORT

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# **PROJECT DEBRIEF INTERNAL WORKS**

# To be completed by the Supervisor

		Completion Date:		
	YES	NO	COMMENTS	
Drawings, documents clear and fully understood				
Daily diary/ workbook maintained for project				
Construction by 'good engineering oractice'				
Construction meets with design stipulation			<u></u>	
All incidences/ accidents reported and recorded				
Compliance testing carried out and results accepted			.0	
Site left in a clean and tidy condition		Q		
Project costing reviewed				
Have all Non-Conformances been attended to?				
"As constructed" changes noted for records				
Construction file returned				
Feedback to designer as required				
Update asset register				
Provide asset details to Director of			**************************************	

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Fraser Coast Regional Council PO Box 1943 TORQUAY QLD 4655



Infrastructure Delivery Telephone: (07) 4125 9737

Facsimile: (07) 4125 4766

		·
	POST CONTRACT REPORT (Contract Projects)	
Contract No -	Date -	
Contractor -		000
Project Name -		, Å
Original Contract Sum -		.00
Final Contract Sum -		Yes / No
Project Faults -	a ex Pidhit to Inite	
Improvements -	aleased lino	
Non- Conformances	Have all non-conformances been attended to??	
Signature -	Superintendent's Representative	Date