CAPRICORN MUNICIPAL DEVELOPMENT GUIDELINES

2023 MEETING 1 MINUTES

Venue: Teams

Date and Time: 3rd February 2023 at 11:00 am

Item	Item				
1	Welcome				
	Todd Lisle (MCE) introduced to the committee as he will be becoming more involved as Chris phases out.			ses out.	
	Frank Nastasi (IRC) replaces Joel Kuczynski and Jason Gustafson (LSC) joins for Livingstone as Greg Abbotts moves into a new role.			Greg	
	Attendance:				
	Chris Hegarty (MCE), Richard Bywater (MCE), Scott McDonald (GRC), Brendan Fuller (GRC), Michael Stanton (IRC), Jamie McCaul (RRC), Jason Gustafson (LSC), Nathan Garvey (BSC), Grant Vaughan (RRC), Sarah Banda (CHRC), Gary Carlyle (IRC), Jarvis Black (MRC), Mohit Paudyal (RRC), Todd Lisle (MCE), Frank Nastasi (IRC)				
2	Apologies:				
		LSC), Tony Lau (LSC), Cameron Hoffmann (MRC), Anthony Lipsys	(BSC)		
3		rect record of minutes from previous meeting			
	Refer Attachi	ment A			
	Resolution:				
		tes of the meeting held on Teams on 17 th November 2022 be forma	llv adopted.		
4	Terms of reference and Budget				
	Scott raised a	reminder for MCE to update percentages for invoicing and generate	e a new schedule	-	
5 Outstanding items from the previous meeting					
	This includes items which were not fully resolved at the previous meeting or items not considered due to time constraints.				
	Item				
	number	Item	Proponent		
	M22.01.01	Website Update	All		
	M15.15	D9 Cycleway and Pathway Design revision			
	M16.11	C273 Landscaping – amend hydromulch spec	GRC		
	M15.20	PS26 Marker Posts	GRC		
	M22.02.05	Use of Corrugated polypropylene drainage pipes	LSC		
	M10.5.1	D6 Site regrading – consider retaining wall issue	LSC		
	M22.04.01	Review of Reference documents in all Specifications	BSC		
	M22.04.04	D5 – Polypropylene maintenance structures for gravity sewers	LSC		
	M22.07.04	RRC grated crossover drawings	RRC		
	M22.08.02	D14 Floodways	MCE/RRC		
	M22.09.01	D11 Water Supply Design – Colour and marking of Infrastructure	MCE		

Item	Item				
	M22.09.02	G-018 Standard Council Grid drawing – width markers	CHRC		
	M22.09.03	D5 – Roof and Allotment Drainage	RRC		
	M22.10.01	Standard Drawing CMDG-R-060	MCE/GRC		
	M22.10.02	Incomplete tables of difference	GRC		
6	New Agenda	Items			
	Item number	Item	Proponent		
	M23.01.01	D11, PS4 and CMDG-W-091 : PN12.5 vs PN16	LSC/MCE		
	M23.01.02	Standard Drawing R-042 – Type A Commercial Driveway Slab	MCE		
	M23.01.03	Standard Drawing W-090 - 20 & 25mm Service and Water Meter Connections	GRC/MCE		
	M23.01.04	D1 – Evacuation Routes	GRC		
	M23.01.05	D11, D12, D5 – Acceptable software packages	All		
	M23.01.06	C224 – Open Drains	GRC		
	M23.01.07	C213 Earthworks Specification	GRC		
	M23.01.08	Sewer Jump up ownership and drawing CMDG-S-030	LSC		
	M23.01.09	As Constructed Certification by Surveyor	RRC		
7	 Discussion on how CMDG Guidelines are not minimum service standards. RRC and LSC have minimum services standard for water and sewer. Other LGAs not sure and committee members to investigate. RRC may have links between service standards and planning scheme and Mohit will check. MCE to add a general note to website. Action: LGAs to confirm if customer service standards exist (mainly for water and sewer) and consider creating them if not. Approval of alternatives or non-conforming designs/ construction remains the prerogative of each LGA. Discussion on how planning scheme overrides CMDG. General note to be added to homepage of website "Alternative or non-conforming designs may be approved at the discretion of the individual LGA". 				
8	Next Meeting				
	Next meeting to be in Calliope on a Thursday in March at 10am. Date to be confirmed. GRC to check availability of venue.				
9	CMDG Action Register				
	The latest register is Attachment B				
	OMPO Trial Partietas				
	CMDG Trial Register The latest register is Attachment C				
	Schedule 1				
		nedule is Attachment D			
	Any update on names vs position titles in schedule?				
10	Meeting Clos	sed at 12:15pm			

Item No.	Item Details
M22.01.01	Website Update
	Meeting M2022.10 Update
	Discussion about value for money as the LGAQ quotation is higher than the original ballpark estimate provided by Made Known. Discussion on whether additional quotations should be obtained (3 would be required). Agreed that not all of the elements included in the LGAQ quote were allowed for in the Made Known price and itemised amounts seem reasonable.
	M2022.10 Resolution
	GRC to engage LGAQ to complete the new CMDG website design in consultation with MCE on confirmation from BSC.
	M2023.01 Update
	GRC have engaged LGAQ to complete the website build and annual maintenance.
	A startup meeting is to be arranged.
	Resolution M2023.01
	GRC and MCE to attend startup meeting via teams.
	GRC will invoice other LGAs directly for website. Full amount to be invoiced upfront to reduce administration as considered to be low risk. MCE to send purchase order list for LGAs to GRC.
	Action By
	GRC & MCE
M15.15	D9 Cycleway and Pathway Design revision
	Previous resolution was
	Cardno to check D9 and check where we are at with the changes
	 MCE have completed a review of the document and are in the process of updating the document for review by the committee
	Previous resolution
	Discussed and agreed to minimise level of detail and refer to Austroads. MCE to complete draft and forward to committee for review.
	Current M2023.01 Status
	D9 has been updated and a copy is included in Attachment F
	It has been noted that some of the related standard drawings still reference "footpath" and should ideally be updated for consistency. It is worth noting that these drawings have not been subject to a detailed review for some time.
	 R010 to R-016 still references concrete footpath R-031 references "footpath level" R-031A still references concrete footpath R-041 to R-043 still references concrete footpath and "footpath" used in notes R-058 still has a "concrete footpath cross section" R-100 R-100A and R-101A still references concrete footpath
	Agreed to not update above standard drawings solely for change of path reference. Changes to be made as part of a more significant update in the future.

Discussion on 12km/h legislated maximum speed on paths if signage not provided and how this relates to the specified 30km/h design speed. Agreed that design speed should remain at 30km/h as it is not considered practical to reduce operating speed by reducing design speed. Typically geometry and grade of paths is governed/ limited by road geometry/ topography. Agreement reached that at this stage not to add anything around posted speed into document.

Grant raised that TMR have now defined a separated cycle track. Brief discussion on whether to add this to the document. Agreed to not include as it is unlikely that this type of track will form part of a development and has yet to be significantly used in the region. In addition, D9 does not cover on road cycle paths.

Resolution M2023.01

1 further week to be given for comments on D9 document. If none received then document will be uploaded to website at next update.

No immediate action to be made in relation to the drawing updates. Drawings to be added to the action register to ensure that the changes can be completed as part of any other future updates.

Action By

MCE

M16.11 C273 Landscaping – amend hydromulch spec

 The current hydro mulch specification uses seed varieties that are more suited to colder climates. See Attachment J for example seed mix used by Dennis Contracting Services

Previous Resolution 24 June 2022

GRC, MRC, LSC are happy with the revised specification. RRC, IRC, CHRC, BSC to review and provide feedback/ acceptance.

Proposed spec acceptable - responses received so far:

Local Government	Acceptance
Banana Shire	Yes
Central Highlands Regional	Yes
Gladstone Regional	Yes
Isaac Regional	Yes
Maranoa Regional	Yes
Livingstone Regional	Yes
Rockhampton Regional	Yes

Previous Resolution

Make changes to specification based on the feedback provided by Dennis Contracting Services and send to committee for final review.

<u>Current Status</u> – The Dennis Contracting Services document has been reviewed with a view to incorporation into C273 and the following has been noted.

- Many of the parameters specified by Dennis Contracting are consistent with CMDG including most hydromulch application rates, soil parameters / preparation, topsoil requirements
- Binder application rate is specified in kg/ha by Dennis Contracting and in Litres in CMDG. Unsure of the difference here and what the appropriate rate would be.
- Fertiliser application rate for hydromulch seems to be specified by Dennis Contracting at and 100kg per hectare whereas CMDG says 1000kg/ha – need to understand the reason for a factor of 10 difference here
- Seed types specified by Dennis Contracting seem to be significantly different to those in CMDG but there may confusion regarding names of certain grasses. The comparison between CMDG and Dennis contracting grasses is below.

CMDG

SEED

a) Grass Rye Corn (April-August) or 60 kg/ha
Japanese Millet (September-March 60 kg/ha
Hulled Couch 5 kg/ha
Red Clover (Inoculated) 5 kg/ha
White Clover (Inoculated) 5 kg/ha
"Elka" Perennial Rye 5 kg/ha

Dennis Contracting

Improved Pastures Grass Seed Varieties

Sirohie Millet / Rye Grass (cover crop)

Green Couch

Reclaimer Rhodes Grass

Carpet Grass

Buffel Grasses

**Mix would consist of one cover crop, three perennial species.

Native Grass Seed Varieties

Sirhoie Millet / Rye Grass (cover crop)

Green Couch

Kangaroo Grass

Black Speargrass

Qld Bluegrass

- one of the native seed types specified by Dennis Contracting is black speargrass (not sure we want to encourage its use??)
- Seed application rates are not specified by Dennis Contracting they instead refer to MRTS 16 but this document is not explicit on acceptable perennial grass species and their application rates. Its uncertain what application rates apply to the Dennis Contracting suggested grasses.

Meeting M2022.10 Discussion 17 Nov 2022

Brief explanation from Chris about differences between old and new specification highlighting the differences in plants and the lack of application rates advice. Input is need from an expert to provide guidance on the suitability of the proposed grass species and the application rates.

Meeting M2022.10 Resolution

Grant volunteered the services of the RRC landscape architect to review and comment on the changes. Chris to liaise with Michael Ramsay from RRC.

Brendan noted that NATSpec includes application rate for grasses and will send details to Chris.

Meeting M2023.01 Update

No progress at this stage. Jamie raised that RRC have noted poor results from hydromulching but good results from using turf in a checkerboard pattern. Discussion on types of erosion control measures and how there are multiple options but guidance on preferred ones may be beneficial. Chris to consider vegetation cover options when reviewing/ updating the document.

Resolution M2023.01

Chris to liaise with Michael Ramsay and provide update. Vegetation cover options to be considered when reviewing/ updating the document.

Jamie to send through photos of successful checkerboard pattern turf establishment.

Action By

5

MCE/RRC

M15.20

PS26 Marker Posts

- Attachment K is draft PS26 provided by GRC
- The previous resolution was:

Amended Purchase Spec PS26 provided by GRC.

- All Councils to confirm if they use timber marker posts or not
- If no Councils use timber posts this will be replaced on CMDG-W-060 with Flat posts
- Councils to confirm which colours for which applications
- Need guidance on the above dot points so that PS26 can be finalised.

Timber posts responses received:

Local Government	Timber posts permitted
Banana Shire	No
Central Highlands Regional	Yes
Gladstone Regional	No
Isaac Regional	Yes
Maranoa Regional	Yes
Livingstone Regional	No
Rockhampton Regional	No

Previous Resolution

MCE to research and check IPWEAQ and SEQ specifications, then update PS26 based on the findings. Drawing required updating to have post 900/1200 above ground (not total length) in urban areas, 1800 in rural areas.

Current Status

Changes made by MCE and new version (rev C) of PS26 is included as **Attachment K.** We need a resolution of the colour to be used for Dialysis Valves outside of GRC.

Some discussion on background

Chris summarised benefits in covering the above ground infrastructure in the document, namely that it is not covered elsewhere in CMDG, and it was agreed that it is worthwhile. Some discussion regarding the colours and most LGAs confirmed that the colour provided in the draft PS26 document are applicable.

Meeting M2022.10 Discussion 17 Nov 2022

No consensus reached on Dialysis valve colour (other than GRC). LGAs to discuss with their water sections to get feedback on proposed colours and to determine suitable colour to dialysis valves.

Hold PS26 until the above issue is sorted out.

Meeting M2023.01 Update

Refer to item M22.09.01

Resolution M2023.01

Refer to item M22.09.01

Action By

ΑII

M22.02.05

D5 – Use of corrugated polypropylene drainage pipes

LSC is suggesting use of corrugated polypropylene drainage pipes.

6-2021	CMDG-D, CMDG-D5, C221.	Addition of corrugated polypropylen drainage pipes.	Twin wall corrugated polypropylene drainage pipes offer many benefits compared to reinforced concrete pipes. Benefits include:
			Excellent corrosion and chemical resistance Can be cut to length with no detriment to corrosion resistance Excellent rubber ring joint sealing system Smooth bore providing optimum hydraulic performance Available in 6 metre lengths Lighter to handle with a lower risk rating for those handling the pipes Smaller diameter pipes can be man handled Lower transport costs Large and diverse range of fitting available
			Addition of corrugated polypropylene drainage pipes.

- C221 Section C221.04 mentions FRC and RCP pipes but not Plastic.
- Current Section D05.18 reads as follows.

D05.18. PIPE MATERIAL

D05.18.01. The following pipe materials are approved subject to minimum cover and installation requirements stated by the manufacturer:

- Steel reinforced concrete pipe and culverts to AS4058; and
- Fibre Reinforced pipes to AS4139.; and
- Other pipes will be considered subject to individual Council approval.

D05.18.02. All joints between pipes shall be Rubber Ring Joints (RRJ).

- It is noted that Hydra Storm supplies pipe as follows:
 - Manufactured in accordance to AS NZS 5065
 - o Available from Diameter Nominal (DN) 225mm to 600mm
 - Manufactured from recycled HDPE



- C221 will need to be updated at the same time as D5.
- Richard mentioned that he is meeting with a representative from Iplex next week where he will get additional information and specifications.

Previous Resolution

Richard to collate information and specifications and send to committee for further discussion at next meeting with proposed changes to D5 and C221 to permit use of corrugated polypropylene drainage pipes.

Action By MCE

- Richard has met with the sales Rep but proposed changes to D5 and C221 are still being considered. It is recommended that Polypropylene pipes with classification SN8 are approved up to a diameter of 600mm.
- The technical guide for Blackmax (Iplex) is included as Attachment N.

Use of polypropylene drainage pipes up to 600mm diameter in urban areas only - responses received:

Local Government	Acceptance
Banana Shire	Yes
Central Highlands Regional	Yes
Gladstone Regional	Yes
Isaac Regional	Yes
Maranoa Regional	Yes
Livingstone Regional	Yes
Rockhampton Regional	Yes

Commentary around impact on plastic pipes due to grass fires etc in rural areas.

Previous Resolution

Update D5 and C221 to permit polypropylene pipes (SN8) in urban areas only up to 600mm diameter. Add notes around to be installed as per manufacturers specifications. Revised documents to be sent to committee for review.

Meeting M2022.10 Update

In progress. Version 9 of D5 is included as **Attachment G**. Updated C221 to be sent to committee for review when completed.

Meeting M2023.01 Update

Minor comments received from MRC on D5.

Minor comments received from MRC and GRC on C221 in relation to numbering and table of contents.

MRC preference for Concrete or Steel over Polypropylene pipes. This was briefly discussed and Jarvis stated that MRC is happy to accept their use in line with the other LGAs.

Updates to Table D05.06.02 received from BSC.

Section D05.18 does not contain uPVC and Steel Pipes & Arches. Typically, uPVC is used for interallotment drainage. In addition, clause D05.18.02 states that RRJ joints are the only approved type, this precludes the use of FJs or solvent welding for uPVC.

D05.18. PIPE MATERIAL

D05.18.01. The following pipe materials are approved subject to minimum cover and installation requirements stated by the manufacturer:

Pipe material

- · Steel reinforced concrete pipe and culverts to AS4058; and
- Fibre Reinforced pipes to AS4139.; and
- Corrugated polypropylene pipes to AS/NZS 5065. Up to 600mm maximum diameter. For use in urban areas only.
- Other pipes will be considered subject to individual Council approval.

D05.18.02. All joints between pipes shall be Rubber Ring Joints (RRJ).

Jason raised that standard drawing CMDG-D-010 is for rigid pipes and potentially should be updated to include flexible pipes. Some discussion on this as D-010 requires significant updates, point raised that it could be removed and Australian Standards referenced but decision made to retain drawing as CMDG is a one stop shop for information. Potential for an additional drawing to be required, one for rigid pipes and one for flexible. Update to this drawing is considered by committee as low priority and other items to be resolved first. MCE to prepare a dot point summary of the changes prior to updating.

******* Not discussed:

GRC have noted that the current publicly available version of D5 includes the below table.

D 1	Major System	
Development Category ¹		AEP (%)
Reference flood for setting floor levels in hospitals, emergency services, flood evacuation buildings and Civil Defence HQ	500	0.2%
Reference flood for setting floor levels of emergency shelters, police facilities, museums, libraries, storage facilities for valuable records or item of historical or cultural significance, and housing for aged and those with impaired mobility; and the setting design levels for water and wastewater centres ² and critical utility services infrastructure ²	200	0.5%
Reference flood for setting habitable floor levels in residential buildings and floor levels in commercial/industrial buildings adjacent floodplains or overland flow paths ³	100	1%
Design Storm for overland flowpaths	50 or	2% or

Comments from GRC:

Some of the referenced flood immunities in this table conflict with those identified in the GRC Planning Scheme. Also, some of the floor level immunities in the Planning Scheme use the term "recommended", so I am concerned that the wording of D5 could be seen as overriding the Planning Scheme. I also a bit unsure how the floor level references adds value to the guideline, as I would assume that all of the member Councils would have this information in their Planning Schemes.

100

1%

For reference this is the same table from QUDM.

Table 7.3.2 – Recommended design average recurrence intervals (ARI) and annual exceedence probabilities (AEP) for the combined minor/major system

Development category [1]	ARI (yrs)	AEP
Reference flood for setting floor levels in hospitals, emergency services, flood evacuation buildings and Civil Defence HQ	500	0.2%
Reference flood for setting floor levels of emergency shelters, police facilities, museums, libraries, storage facilities for valuable records or item of historical or cultural significance, and housing for aged and those with impaired mobility; and the setting design levels for water and wastewater centres [2] and critical utility services infrastructure [2]	200	0.5%
Reference flood for setting habitable floor levels in residential buildings and floor levels in commercial/industrial buildings adjacent floodplains or overland flow paths [3]	100	1%
Design storm for overland flow paths	50 or 100	2 or 1%

Notes:

- [1] The terms used in this table are described in the Glossary (Chapter 13).
- [2] Refers to critical components of the system that are required to be flood-free in order to allow prompt and cost-effective recovery of services after a flood (e.g. electrical equipment).
- [3] Refer to relevant local authority for confirmation of design storm AEP. Fill, building and floor levels are usually set relative to the 1% AEP event even if the overland flow path design storm represents a 2% probability.

Potentially a solution could be to remove Table D05.04.2 and add refer to planning scheme in the first instance for Building Floor Level immunity or QUDM.

Resolution M2023.01

Make the following changes to D5:

Add uPVC to the acceptable pipe materials

- Delete clause D05.18.02
- Add title to Annexure, "Template Site-based Stormwater Management Plan"
- Make changes to Table D05.06.02 Acceptable Modelling Packages as agreed in agenda item M23.01.05.

Standard drawing CMDG-D-010 to be added to action list for update (low priority). MCE to provide dot point summary to committee prior to makes changes to the drawing.

Action By

MCE

M10.5.1 **D6 Site Regrading – consider retaining wall issue Awaiting Action**

- _____
- The previous resolution was
- Meeting 10 Sub Committee of Amal Meegahwattage (LSC), Jamie McCaul (RRC), and Chris Hegarty to review the document and advise. Phil McKone to check LGAQ legal site for any retaining wall related advice
- Meeting 13. This item was not discussed. Chris, Jamie and Dev to meet to progress further.
- No progress on this issue yet need to discuss its priority and resources to progress the matter

Previous Resolution

Jamie and Chris to discuss further and determine a potential resolution.

Discussion

Jamie mentioned seeing lots of this type of boundary retaining wall being used in the region.

Mention of previously court case regarding retaining wall failure, Jamie to investigate the outcome of the case to provide potential guidance on how to proceed.

Resolution

Jamie and Chris to discuss further and determine a potential resolution.

M2022.09 Update:

Jamie is waiting on the outcome from some current RRC cases of retaining wall issues. The outcomes from these may influence or provide direction to the D6 changes.

M2022.10 17 Nov 2022 Update:

Jamie briefly discussed the ongoing issues. It was agreed that it may be worth including guidance on minimum retaining wall requirements for example no rough cut sandstone blocks. To be discussed further.

Action By

MCE/RRC

M22.04.01

Review of Reference documents in all Specifications - No resolution this meeting

- BSC (Daniel) suggests the group consider a Design Specification review and revising the referencing to current standards/guidelines. These references should provide the same or better information that was originally referred to by the CMDG Design Specs.
- IRC (Michael) has also pointed out that construction specifications have not been reviewed for some time.
- Whilst GRC conducted a review of many of the specs when joining the group there has been only ad hoc review of standards and references since. For discussion at this stage – the question is when should reviews take place and what resources should be assigned to it?

Previous Resolution

Discussion around potential review of documents as some have not been revised since 2007. Chris to review documents and highlight the ones in need of a review. In addition, it was agreed to complete a detailed review the documents on an ad hoc basis as changes are required/ requested to specific documents.

M2022.09 Resolution

The following is a summary of the agreed documents to be reviewed and those responsible for carrying out the review.

M2022.10 Update

Comments received about Australian Standard references need to be updated in D11 and D12 from Sarah

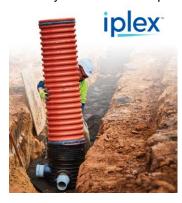
Specification	Last review and notes	In need of review?	To be reviewed by?
D1 Geometric Road Design	Currently under major review	No	
D2 Pavement Design	Dec 2021	Yes	RRC (Grant)
D3 Structures and Bridges	Apr 2019 – References updated	No	
D4 Surface Drainage	Aug 2019	Yes	IRC (Michael)
D5 Stormwater Design	Mar 2022	No	
D6 Site Regrading	Mar 2012	Yes	RRC (Jamie) and MCE
D7 Erosion Control and Stormwater Management	Sep 2020 – but review not comprehensive	Yes	RRC (Jamie/Tilak)
D9 Cycleway and Pathway Design	Mar 2012	Yes	MCE
D10 Landscaping (DRAFT)		Yes	RRC (Grant)
D11 Water Reticulation	Jan 2022	No	CHRC (Sarah)
D12 Sewerage Reticulation	Jan 2022	No	CHRC (Sarah) Noted AS4999 is withdrawn
D13 Small Earth Dams (GRC only)	Apr 2019	Yes	GRC (Scott/Brendan)

D14 Floodway	rs (DRAFT)	Yes	RRC (Grant)	
D15 Driveway	s Jun 2018	Yes	BSC (Daniel)	

M22.04.04

D12 - Polypropylene maintenance structures for gravity sewers - No resolution this meeting

- Iplex has requested that CMDG D12 be updated to allow for the use of 1000mm dia polypropylene maintenance shafts.
- The Iplex Ezipit technical guide is included as Attachment S
- EZI pit, in all the sizes (MS (DN425), MC(DN600) and MH(DN1000)) are approved by the majority of the water Authorities in Melbourne, approved by Unity Water, Gold Coast Council, Logan Council, and Redlands Council in the SEQ water grid.
- The EZIpit has been around for a number of years with about 15 years of use in Australia and 35 years use in Europe.



Use of polypropylene maintenance structures - responses received so far:

Local Government	Acceptance
Banana Shire	No
Central Highlands Regional	?
Gladstone Regional	No
Isaac Regional	Yes
Maranoa Regional	No
Livingstone Regional	?
Rockhampton Regional	No?

M2022.10 Discussion

- Some discussion and revisiting of LGA preferences for maintenance shafts in CMDG
- · Some feedback that internal ribbing could hold up debris

M2022.10 Resolution

- Isaac regional Council accept the use of the polypropylene chambers as access chambers. New table of difference to be added to D12 for use of 1000 dia polypropylene access chambers as an alternative to concrete access chambers.
- LSC and CHRC to confirm the use of the polypropylene structures for maintenance shafts only (ie 600 diameter)
- LSC to provide an update about approval in table D12.09.04
- MCE to send update email to Iplex once above items have been confirmed.

M2023.01 Update

Awaiting feedback from LSC and CHRC

Action By

LSC/ CHRC/ MCE

M22.07.04

RRC grated crossover drawings - No resolution this meeting

Rockhampton Regional Council (RRC) have developed two standard drawings for grated overhead crossings at driveway crossovers, with RRC-R05 applicable for pedestrian and residential applications, and RRC-R06 applicable for commercial and laneway applications. Refer to **Attachment T** for details. These drawings have been in use in the RRC LGA since 2017 and are routinely referred to for the issue of works in road reserve permits as well as Council projects.

RRC have requested, via Grant, that these two drawings be included in CMDG.

M2022.10 Discussion

Comments have been received regarding potential sharp transitions at the edges, a minor update to the drawing may be required to show a small wedge of asphalt either side of the grates. GRC and RRC have also noted that these should only be used when there is no other alternative and would not generally apply to greenfield sites.

M2022.10 Resolution

Create one new CMDG drawing that combines the information on the RRC standard drawings (with minor amendments) but ensure that it is noted on the drawings that these are only for use in exceptional circumstances as directed or approved by local government.

Minor changes:

- Reference AS 2890.1 for vertical clearance checks
- Concrete/asphalt infill ramp to be adjusted to have wings
- Add maximum grade on wings (use speed bump standards as a guide)
- Hatch on grate to be changed to similar to inlet grates
- Add only to be used in specific situations note in bold at top of drawing
- Add applicability table with yes to all LGAs

M2023.01 Update

Changes have been made and drawing is under review by RRC to confirm that it still meets requirements.

Maximum grade on the wings and extent into the travel lane to be discussed.

Current draft version of drawing is **Attachment L**.

Suggested

Final drawing to be sent to committee for review when completed.

Action By

MCE

M22.08.02

D14 Floodways - No resolution this meeting

The previous resolutions on this document are below. The current document is at **Attachment E**.

Meeting 11 13 Mar 2018	D14 Floodways a. Cardno to revise D14 using the new layout and document structure provided by RRC b. Table D14.09.01 needs revision and clarity eg d50 c. SPA and IDAS references need to be amended
Meeting 12 25 Oct 2018	D14 Floodways 'Sustainable Planning Act' needs to be updated/changed to 'Planning Act 2016'. Table D14.03.01 – note the source of the information in this table – It's a government source and policy could change.
Meeting 13 14 Mar 2019	Dev (LSC) is currently working on a new draft for D14 Floodways

A draft of D14 was prepared in 2018 but does not appear to have progressed since.

M2022.10 Resolution

Jon to check with Dev if new draft of D14 exists and forward to committee. Grant to review D14 when possible.

M2023.01 Update

No newer version is available from LSC. Grant to review 2018 version when possible.

Suggested Resolution

Action By

LSC/RRC

M22.09.01

D11 Water Supply Design - Colour and marking of infrastructure

In preparing a draft of PS 26 Marker posts it became apparent that a decision should be made regarding naming conventions and colour of surface infrastructure.

The WSAA Water Supply Code says "Above ground infrastructure to be coloured to Water Authority Requirements". But it does have the following advice for spindle caps.

TABLE 8.1

COLOUR CODING OF SPINDLE CAP PLASTICS COVERS

Valve description	Colour
Closed valve	Red
Open valve	White
Dialysis patient	Blue
Non-drinking water	Purple

In terms of what is in CMDG now we have the following

Table D11.13.01 Kerb Painting Valves and Hydrants

Local Government	Kerb Painting (for valve and hydrants)	
Banana Shire	Not Required	
Central Highlands Regional	Not Required	
Gladstone Regional	The kerb is to be painted (white – valves, yellow – hydrants) in the location perpendicular to the asset. Painted area is to be 300mm wide.	
Isaac Regional	The kerb is to be painted (blue – valves, yellow – hydrants) ir the location perpendicular to the asset. Painted area is to be 300mm wide.	
Livingstone Shire	Not Required	
Maranoa Regional The kerb is to be painted (blue – valves, yellow – hydra the location perpendicular to the asset. Painted area is 300mm wide.		
Rockhampton Regional Not Required		

All paint colouring to comply with AS 2700 - Colour Standards for General Purposes.

And from CMDG-W-062

 Pavement markers to be blue in colour for hydrants and yellow in colour for valves and constructed to AS 1906.3 (1992)

Note that the only notable difference between members at the moment that I am aware of is that GRC marks valves white – however this appears to be the norm in the Southeast corner.

Suggested resolution

For discussion only to search for common ground at this point

Marker Plate Disc Codes			
Н	Hydrant	SV	Scour Valve
F	Flushing Point	V	Valve
AV	Air Valve	SH	Swabbing Hydrant
VB	Valve Box / Pit	SC	Swabbing Chamber

Coloured Reflector and Reflective Tape Codes GRC

White	Air Valves, Swabbing Chamber Potable Wate Scour Valves, Valves	
Yellow	Hydrant	
Red	Closed Zone / Boundary Valve	
Blue	Dialysis Valves	
Lilac / Purple Recycled Water Scour Valves, Valves		
Cream or Grey Raw Sewage		

Coloured Reflector and Reflective Tape Codes – LGA's other than GRC		
White	Air Valves, Swabbing Chamber	
Yellow	Hydrant	
Red	Closed Zone / Boundary Valve	
Blue	Potable Water Scour Valves, Valves	
Lilac / Purple	Recycled Water Scour Valves, Valves	
Cream or Grey	Raw Sewage	
Blue (with identifier on spindle)	Dialysis Valves	

M2022.10 Resolution

RRC use an identifier on the spindle (poly pipe over spindle with a brass plaque on top). Other LGAs to check what they do/ confirm if the RRC approach is acceptable for CMDG.

M2023.01 Update

Gary (IRC) raised a number of points in relation to the marker plates, for example ScV for scour valve. Gary will send through a list with IRC's requirements.

MCE to generate a revised table to contain the marker disc requirements including colours and nomenclature required for the different LGAs. All LGAs to review requirements and provide feedback for population of the table prior to next meeting.

Action By

ΑII

M22.09.02

G-018 Standard Council Grid drawing - width markers - No resolution this meeting

Sarah raised the question of whether hazard markers/ grid width markers should be replaced with guideposts on existing grids as they are not shown on drawing G-018.

Response from MCE:

The width markers are still acceptable and potentially a requirement. Typically, width markers are required when the grid is narrower than the road i.e. grid width is less than road formation width, this is also TMR's approach. The exact guidepost requirements are possibly a little more up for debate depending on how you interpret MUTCD, but some guideposts would definitely be needed as well. The other CMDG drawing G-020 requires the hazard markers at the grid and guideposts at 10m from each corner. I have discussed this with one of our Senior Road Safety Auditors and we agree that the approach shown on drawing G-020 is the best option to cover all bases.

I think that the best approach would be to review G-018, potentially with the view to combine it with G-020.

M2022.10 Discussion

Discussion on use of grates and applicability. CHRC are requesting hazard markers on all grids. Agreed that G-020 is a more complete drawing especially in relation to signage.

M2022.10 Resolution

Agreed to supersede G-018 but retain on website as an example. CHRC, LSC, BSC and MRC to confirm applicability on G-020 as they will have no applicable grid drawing following superseding of G-018.

M2023.01 Discussion

CHRC and MRC have expressed concerns with the removal/ superseding of G-018.

Summary of MRC comments:

- 1. Preference is to retain hazard markers.
- 2. Remove reference to a proprietary product removed. Instead quote the engineering/technical parameters. Historically they have had big issues with stipulating a proprietary product.
- 3. Is the pre-cast base required in all circumstances? Can it be applied on a case-by-case basis?
- G-020 does not have an abutment detail like G-018 has presumably this is because G-020
 users utilise pre-cast units, however the regional areas regularly cast in-situ. Abutment detail
 required.
- 5. There is frequent reference to 'precast' preference for this to be removed.
- 6. We are cognisant that some councils have a Grid Policy, so we want the standard drawing to be in line with MRC's existing Grid Policy.
- 7. For example, we recommend Note 5 is tabulated (widths/traffic counts for each Council). MRC is shown below.

Traffic Volumes	Grid Type Required
Road with greater than 250 vehicles per day	Not permitted
Road with traffic volumes less than 250 but more than 20 vehicles per day	Double grid (8m)
Road less than 20 vehicles	Single grid (4m)

Notwithstanding the above, a double grid may be required, at Council's discretion, irrespective of the above if:

- 8. Note 7. Not applicable to MRC.
- 9. Note 6. Possibly tabulated. MRC's loading criteria is below (based on the TMR guide).

Frames and abutments are to be structurally certified for design loads in accordance with AS5100.2-2017 (the Bridge Design Code), including all relevant load factors, dynamic load allowances and deflection limits (i.e. span/600). The particular loads to be applied are as follows:

- W80 wheel load;
- A160 axle load;
- M1600 moving load;
- S1600 stationary traffic load.

Local Government	G-018 Applicability	G-020 Applicability
Banana Shire	No	Yes?
Central Highlands Regional	No?	Yes?
Gladstone Regional	No	Yes
Isaac Regional	No	Yes
Maranoa Regional	No?	Yes?
Livingstone Regional	No	Yes?
Rockhampton Regional	No	Yes

An alternative option may be to add a note to G-018 to reference G-020 for signage requirements.

Suggested resolution

For discussion.

Action By

M22.09.03

D5 - Roof and Allotment Drainage - No resolution this meeting

As per QUDM, there are five levels of roof and allotment drainage design and depends upon the development category. Further QUDM directs that required level for each development category is at the discretion of the local government. Maybe in CMDG (D5) we need to have some information about this?

Below is the Brisbane City Council requirements:

7.2.2.3 Drainage

- Council's design standards for stormwater infrastructure vary for different types of land uses. The design standards for roof water, drainage in private roads/driveways and for drainage in roads fronting those types of development are set out in Table 7.2.2.3.B.
- Pipe drainage of on-site roof water and surface water from paved and unpaved areas must comply with AS/NZS 3500.3:2003 Plumbing and drainage - Stormwater drainage, QUDM for Level III, IV and V drainage standards.
- The design of the major system must ensure flows can be conveyed safely. Where the major system is part of a road, this may require increasing the capacity of the minor system above that shown in this table to ensure flow depths and hazard are acceptable (refer to QUDM).

Table 7.2.2.3.B-Design standards for drainage systems

Development category	Design parameter	Minimum design standard	
		AEP	ARI (years)
Rural areas (typically 2–5 dwellings per hectare)	Minor drainage system Major drainage system	39% 2%	2 50
Residential developments (Low density residential)	Minor drainage system Major drainage system	39% 2%	2 50
	Roof water drainage	Level II QUDM	
Residential developments (Low- medium density to High density)	Minor drainage system Major drainage system	10% 2%	10 50
	Roof water drainage	Level III and Level IV QUDM	
Industrial uses	Minor drainage system Major drainage system	39% 2%	2 50
	Roof water and lot drainage	Level IV QUDM	
Commercial land uses (centre zones)	Minor drainage system Major drainage system	10% 2%	10 50
	Roof water and lot drainage	Level IV and V QUDM	

Notes

The design standard of major drainage system is to safely manage the difference between the minor and major flows where a minor system is provided in accordance with QUDM.

A severe storm impact assessment is to be provided where development may interfere with the passage of stormwater during the major flow event. Refer to QUDM for applicability and design considerations.

Currently the CMDG Table specifies one level for all development types:

Table D05.16.1 - Inter Allotment Drainage Requirements

Local Government	QUDM Level	Special Requirements	
Banana Shire	II (Note 1)	Connection to main is permitted.	
Central Highlands Regional	II (Note 1)	No grated inlets.	
Gladstone Regional	III (Note 2)	Connections must be to pits.	
Isaac Regional	II (Note 1)		
Maranoa Regional	II (Note 1)	Connection to main is permitted.	
Livingstone Shire	II (Note 1)	No grated inlets.	
Rockhampton Regional	II (Note 1)		

Note 1: Level III inter allotment drainage may be required by the Local Authority in some instances (e.g. steep slopes).

Note 2: GRC may consider level II inter allotment drainage in low risk circumstances.

Suggested resolution

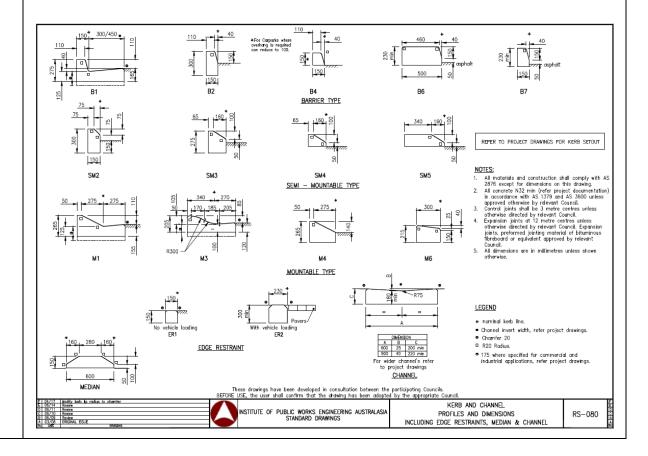
TBC

Action By MCE

M22.10.01

Standard Drawing CMDG-R-060 - No resolution this meeting

As part of an applicability change request from BSC drawing CMDG-R-060 (**Attachment H**) has been updated to be applicable to all LGAs and R-060A is now redundant. Scott has suggested considering the format of the IPWEAQ and TMR kerb profiles standard drawings. On these drawings the kerbs and channels are split into types, i.e. Mountable, Semi Mountable, Barrier etc. It would also be worth considering the possibility of aligning the CMDG kerb references with the IPWEAQ drawing as the profiles are the same in many instances. It is a good time to check if there are any additional kerb profiles that are being used or requested that could be added to the drawing.



M22.10.02

Incomplete tables of difference – No resolution this meeting

Below are the tables of difference in various CMDG documents that are incomplete. The aim is to populate these tables or remove if agreement can be reached between LGAs.

CMDG Incomplete Tables of Difference - Oct 2022

Table D11.06.01 Water Supply Network Analysis Software

Council	Software Used	Comment
Banana Shire InfoWorks WS Pro		
Central Highlands Regional	WaterGEMS	
Gladstone Regional	InfoWater	
Isaac Regional	EPANET	Want WaterGEMS but cost \$20k/yr is hard to justify. Looking to cost share with another Council.
Livingstone Shire	INFOWORKS	
Maranoa Regional	WATER GEMS	
Rockhampton Regional	WATER GEMS	

Table D11.07.03 Fire Fighting Requirements

	Residual pressure at most disadvantaged hydrant (m)	Flow	When fire flow is applied	
Banana Shire	12m	15L/s for 2h for residential and 30L/s for 4 hours for commercial / industrial.	MHMD	
Central Highlands Regional	Refer to Queensland government's Planning Guidelines for Water Supply and Sewerage			
Gladstone Regional	Refer to Planning Guidelines for Water Supply and Sewerage			
Isaac Regional	Refer to Queensland government's Planning Guidelines for Water Supply and Sewerage			
Livingstone Shire	12m	15L/s for 2h for low and medium density residential 30L/s for 4 hours for high density residential and commercial / industrial.	MHMD	
Maranoa Regional	15L/s for 2h for low and medium density residential 12m 30L/s for 4 hours for high density residential and commercial / industrial.		MHMD	
Rockhampton Regional	12m	15L/s for 2h for low and medium density residential 30L/s for 4 hours for high density residential and commercial / industrial.	MHMD	

Table D11.10.02 Valves and Tees Instalment Arrangement

Local Council	Flanged Valves and Tees	Valves per Tee
Banana Shire	Yes	3
Central Highlands Regional	Yes	3
Gladstone Regional	Yes	3
Isaac Regional	Yes	3
Livingstone Shire	No	2 (both downstream legs)
Maranoa Regional	Yes	3
Rockhampton Regional	No preference	2 (both downstream legs)

Table D11.20.1 Use of Pump Stations in Reticulation Network

Local Government	Reticulation Pump Stations permitted within reticulation network
Banana Shire	No
Central Highlands Regional	Yes
Gladstone Regional	No
Isaac Regional	Yes
Livingstone Shire	Yes
Maranoa Regional	Yes
Rockhampton Regional	Yes

Table D12.06.01 Sewer Reticulation Network Analysis Software

Council	Software Used	Comments
Banana Shire	N/A	Too costly to maintain a software in the council
Central Highlands Regional	SewerGEMS	
Gladstone Regional	InfoSWMM	
Isaac Regional	SWMM	Want SewerGEMS but cost \$20k/yr is hard to justify. Looking to cost share with another Council.
Livingstone Shire	SWMM	
Maranoa Regional	SEWERGEMS	
Rockhampton Regional	SEWERGEMS	

Note: SWMM5 is freely available online via the USEPA.

Table D12.07.01 Design Average Dry Weather Flow (ADWF)

	• •	
Council	Design ADWF	EP/ET
Banana Shire	200 L/d/EP	2.6
Central Highlands Regional	250 L/d/EP	2.7
Gladstone Regional	225 L/d/EP	2.6
Isaac Regional	250 L/d/EP	2.7
Livingstone Shire	540 L/d/ET	2.7

Maranoa Regional	200 L/d/EP	2.7	
Rockhampton Regional	540 L/d/ET	2.7	

Table D12.20.02 Wet Well Internal Diameter

Local Government	Minimum wet well internal diameter (mm)
Banana Shire	1800
Central Highlands Regional	2400
Gladstone Regional	3000
Isaac Regional	2400
Livingstone Shire	2400
Maranoa Regional	2400
Rockhampton Regional	2400

Table D15.10.01 Racing Line Assessment Applicability

Local Government	Is section 15.10 Racing Line assessment applicable?
Banana Shire	No
Central Highlands Regional	No
Gladstone Regional	Yes
Isaac Regional	ТВА
Maranoa Regional	No
Livingstone Regional	ТВА
Rockhampton Regional	No

Suggested resolution

TBC

Action By MCE

D11, PS4 and CMDG-W-091: PN12.5 vs PN16 - No resolution this meeting

D11 and PS4 currently have PN12.5 for all LGAs except for LSC (PN16). Should these documents be updated to have the same (PN16 Poly) for all LGAs? Current document details are below.

APPLICABILITY TABLE							
Council	BSC	CHRC	GRC	LSC	IRC	MRC	RRC
Applicable	Yes	No	Yes	Yes	Yes	No	Yes
Poly Pipe and Class	PN12.5	PN12.5 PN12.5 PN12.5 PN12.5					PN12.5
Applicable DWG CMDG-W-093							

20, 25, 32 & 40MM WATER METER DETAILS BELOW GROUND

STANDARD DRAWING CMDG-W-091

Table D11.09.01 PVC* Minimum Water Main Pipe Classes

Local Government	MPVC	OPVC	DICL	PE
Banana Shire	Class 16	Class 16	PN35	PE100 PN12.5
Central Highlands Regional	Class 12	-	PN35	PE100 PN12.5
Gladstone Regional	Class 16	Class 16 (Material Class 450)	PN35 PE100	
Isaac Regional	Class 16	Class 16 (Material Class 450)	PN16	PE100 PN12.5
Livingstone Shire	Class 16	Class 16 (Material Class 450)	PN35	PE100 PN16
Maranoa Regional	Class 16	Class 16	PN35 for Road Crossings & Aerial PN20 - general works	PE100 PN12.5
Rockhampton Regional	Class 16	Class 16 (Material Class 450)	PN35	PE100 PN12.5

4.0 Pressure Classification (PN) –

Local Government	Pressure Classification for new installation and repair
Banana Shire	PN12.5 (1250 kPa or 1.25 MPa @ 20° C).
Central Highlands Regional	PN12.5 (1250 kPa or 1.25 MPa @ 20° C).
Gladstone Regional	PN12.5 (1250 kPa or 1.25 MPa @ 20° C).
Isaac Regional	PN12.5 (1250 kPa or 1.25 MPa @ 20° C).
Livingstone Shire	PN 16 (1600 kPa or 1.6 MPa @ 20° C).
Maranoa Regional	PN12.5 (1250 kPa or 1.25 MPa @ 20° C).
Rockhampton Regional	PN12.5 (1250 kPa or 1.25 MPa @ 20° C).

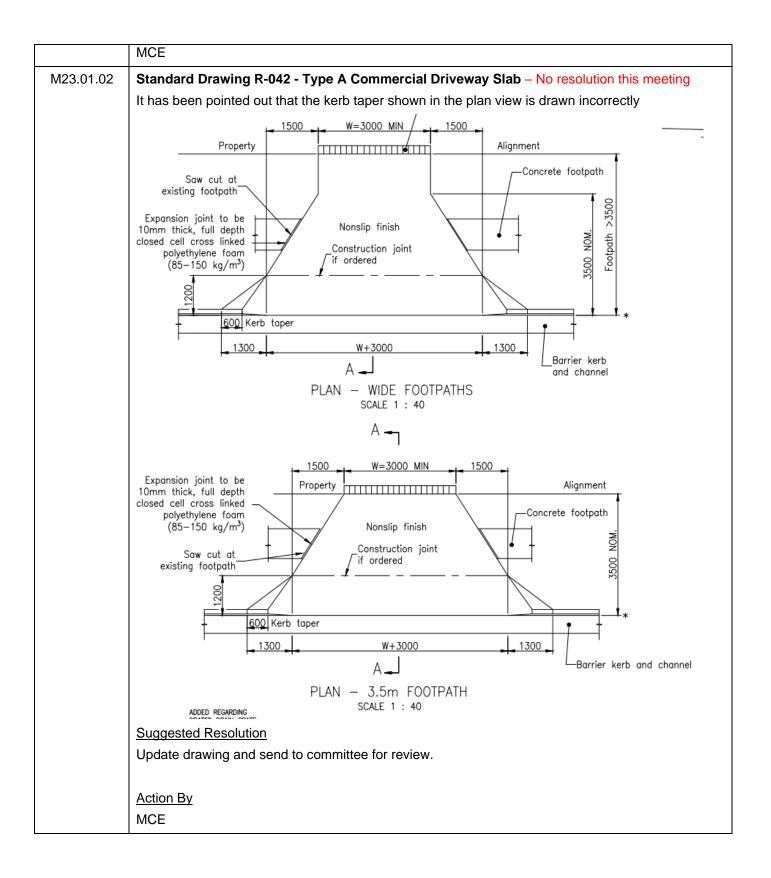
Standard drawings W-020, W-030, W-091 W-081 need to be updated with any changes. For discussion

Suggested Resolution

Update documents to PN16 poly for all LGAs.

Amend IRC DICL Class to PN35

Action By



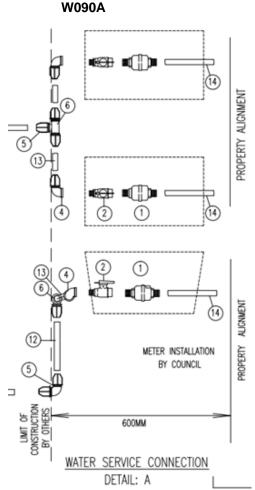
Standard Drawing W-090 - 20 & 25mm Service and Water Meter Connections - No resolution this meeting

As part of an update to W-090 it was noted that the differences between W-090 and W-090A are minor and there may be an opportunity to combine them.

The key difference between the drawings W-090 and W-090A Is the water service connection detail:

W-090 W-090 W-090 WETER INSTALLATION BY COUNCIL BY C

WATER SERVICE CONNECTION
DETAIL: A



The other difference between the drawings is just the short single size on the W-090A is 25mm not 32mm, this could be covered in the applicability table if required.

The main benefit from not installing the valve is reduction in the risk of water theft.

For discussion.

Suggested resolution

TBC

Action By

TBC

D1 - Evacuation Routes - No resolution this meeting

It was raised by GRC that an evacuation route section/ clause may be beneficial in D1.

A general clause may be useful referring to any specific work done by the relevant LGA on flooding/storm surge to inform level and designated evacuation routes.

An example from Mackay is reproduced below:

2.19 Evacuation Routes

Where works are proposed for existing or foreshadowed evacuation routes, designers shall recognise that minimisation of inundation during flooding or storm surge events is a requirement to ensure the ability of the roadway to maintain its function as an evacuation route.

Crown levels on these roads is to be maintained at a minimum level of 5.0m AHD to ensure its viability and trafficability during evacuation incidents.

Further, where the development is controlled by the storm surge Minimum Level of RL5.0m, then the road shall be no lower than 4.7m AHD at the lip of the kerb & channel.

The evacuation routes to which this requirement applies are shown in the *Mackay City Council – Emergency Action Guide*. Copies of this document are available from Council and are on Council's web page.

For discussion

Suggested Resolution

TBC

Action By

D11, D12, D5 - Acceptable software packages. - No resolution this meeting

The wording in relation to software package use in CMDG uses terms "acceptable" or "must" in relation to use of software packages which implies that Consultants must use the stated software packages. It was my understanding that these packages were preferred and encouraged simply because it was easier for LGA's to check and therefore approval for development was easier to obtain. Are other software packages excluded?

Extract from D5 Following to illustrate.

D05.06.10. The full electronic files associated with any computerised modelling works shall be provided to Council as a part of Site Based Stormwater Management Plan. Computer model shall be prepared by a qualified person experienced in the use of the program and under the supervision of a Registered Professional Engineer of Queensland (RPEQ) experienced in this field. The accuracy of the model shall be verified by a RPEQ experienced in this field. The model shall be calibrated and a sensitivity analysis shall be completed. Acceptable software packages are identified in Table D05.06.02 – Acceptable Modelling Packages.

Table D05.06.02 - Acceptable Modelling Packages

	Banana Shire	Central Highlands Regional	Gladstone Regional	Isaac Regional	Maranoa Regional	Livingstone Shire	Rockhampton Regional
Runoff Routing:			XP Raft/ TUFLOW				
Drainage Analysis:			Drains (ILSAX)/ PCDRAINS				
Steady Flow			HEC-RAS				
Unsteady flow			MIKE 11/ XPSWIM/ TUFLOW				
Water Quality			MUSIC				

D11.06.01. The planned service area, hydraulic capacity and component sizing shall be as approved by the Water Service Provider via a Water Supply Network Analysis. Software used by consultants for Water Supply Network Analysis must be compatible with that use by the relevant Council. A list of the software used by each of the participating Councils has been provided below.

Table D11.06.01 Water Supply Network Analysis Software

Council	Software Used
Banana Shire	
Central Highlands Regional	
Gladstone Regional	InfoWater
Isaac Regional	H2OMAP
Livingstone Shire	INFOWORKS
Maranoa Regional	WATER GEMS
Rockhampton Regional	WATER GEMS

D12.06.01. Software used by consultants for Sewer Reticulation Network Analysis must be compatible with that use by the relevant Council. A list of the software used by each of the participating Councils has been provided in Table D12.06.01 Sewer Reticulation Network Analysis Software below.

Table D12.06.01 Sewer Reticulation Network Analysis Software

Council	Software Used
Banana Shire	
Central Highlands Regional	
Gladstone Regional	InfoSWMM
Isaac Regional	
Livingstone Shire	SWMM
Maranoa Regional	SEWERGEMS
Rockhampton Regional	SEWERGEMS

Note: SWMM5 is freely available online via the USEPA.

Suggested Resolution

Change from "Acceptable" software packages to "Preferred" software packages in table D05.06.02. In D11.06.01 and D12. 06.01 Replace "must be compatible with that used by the relevant Council" to "is preferred to be compatible with that used by the relevant Council"

Action By

MCE

C224 - Open Drains - No resolution this meeting

Brendan noted that he was looking for table drain information and this construction specification contains the relevant information. A title change was suggested or potentially adding this information to the drainage design specification D5.

For discussion.

CAPRICORN MUNICIPAL DEVELOPMENT GUIDELINES

OPEN DRAINS INCLUDING KERB & GUTTER (CHANNEL)

C224

CONSTRUCTION SPECIFICATION

Suggested Resolution

TBC

Action By

M23.01.07

C213 Earthworks Specification - No resolution this meeting

GRC have commented on C213 in relation to the setout. The document discusses the installation and spacing of pegs. However, it is common in the industry to use 3D models, GPS/ RTK a rather than pegs and offsets.

For discussion

Suggested Resolution

Update C213 to include the use of 3D models.

Action By

MCE

Sewer Jump up ownership and drawing CMDG-S-030 - No resolution this meeting

LSC have raised issues around ongoing maintenance costs of sewer connections. The issues are often caused by poor workmanship of contractors. LSC have proposed revisions to drawing S-030 as per the markup (Attachment M)

The justifications are as per below:

- Council does not install the top junction of a "jump up".
- Plumbing contractors have no incentive [except for good practice] to compact around and under the top junction that commonly fails.
- Council plumbing inspectors have measured up and left when this void is filled.
- Access to this area in the property is often difficult and expensive.
- Re-instatement of this area is often difficult and expensive.
- Property owners often don't know about "jump ups" and commonly build over them.
- Should council repair/replace a "jump up" there is an expectation we have accepted ownership and will continue to maintain it.
- Council often has to return and maintain the re-instatement.

This change would required updates to other LGA documentation as well as the CMDG drawings. Historically the ownership of the jump up is by the LGA. This is supported by the Standard Sewerage Law/ Sewerage and Water Supply Act 1949, which in section 14 point 6 states that the jump up is part of the sewerage system (extract below).

For discussion.

14 Access to sewerage system

- (1) A local government must, to the greatest practicable extent, make sure that—
 - (a) all premises in a sewered area are able to be connected directly and separately to the local government's sewerage system for the sewered area; and
 - (b) the sewerage system can deal with the sewerage requirements of all premises in the sewered area.
- (2) Subsection (1) does not stop the local government from recovering from an owner of premises the reasonable cost of complying with the subsection for any particular premises or premises group.
- (3) If 2 or more premises are part of a premises group, the local government does not fail to comply with subsection (1) because it makes sure only that the premises group, rather than each individual premises, is able to be connected directly and separately to its sewerage system.
- (4) The design of the sewerage system must allow for a connection point for each premises or premises group to be at or within the boundary of the premises or premises group, and, to the greatest practicable extent, at an invert level below ground level at which a sanitary drain or property sewer laid at minimum grade is capable of servicing the premises or premises group.
- (5) The placing of each connection point is to be decided by the local government, acting reasonably in the circumstances of the connection.
- (6) A junction, bend, pipe, jump up or graded jump up required to connect a sanitary drain or property sewer to the local government's sewer is part of the sewerage system, but only if the sanitary drain or property sewer is at or above the level of the sewer.

Suggested resolution

TBC

Action By TBC

As Constructed Certification by Surveyor – No resolution this meeting

The Surveyors Board Queensland contacted RRC regarding the terminology in relation to the certification of as constructed plans/ information. The letter notes the different levels of Queensland Surveyor Registration and provides recommendation on the requirement for a "Registered Surveyor Queensland" to provide as constructed certification.

For discussion

Suggested resolution

Make the following changes to CMDG documentation:

- CP1.21.2 Replace "Licensed Surveyor" with "Registered Surveyor (QLD)" (This clause relates to as-constructed survey)
- CP1.24.3 Replace "Licensed Surveyor" with "Registered Surveyor (QLD)" (This clause relates to as-constructed drawings)
- CP1.29.1 Replace "Licensed Surveyor" with "Registered Cadastral Surveyor (QLD)" (This clause relates to sealing the plan of survey)
- CP1.C Example Subdivisional Inspection and Test Plan Replace "Licensed Surveyor" with "Registered Surveyor (QLD)" (This clause relates to as-constructed drawings)

There could be other changes that are necessary.

Each LGA to check over their As Constructed requirements to see if there are licenced surveyor references there also.

Action By

ΑII