

CAPRICORN MUNICIPAL DEVELOPMENT GUIDELINES

2022 MEETING 10 MINUTES

Venue: GRC Offices at Calliope

Date and Time: 17 November 2022 10:00 am

Item	Item		
1	<p>Welcome</p> <p>Attendance:</p> <p>In person: Chris Hegarty (MCE), Richard Bywater (MCE), Scott McDonald (GRC), Brendan Fuller (GRC), Michael Stanton (IRC), Jamie McCaul (RRC), Jon Ashman (LSC), Nathan Garvey (BSC)</p> <p>Via Teams: Grant Vaughan (RRC), Sarah Banda (CHRC), Gary Carlyle (IRC), Graham Sweetlove (MRC)</p>		
2	<p>Apologies:</p> <p>Mohit Paudyal (RRC), Joel Kuczynski (IRC), Anthony Lipsys (BSC), Frans Krause (GRC), Tony Lau (LSC), Greg Abbotts (LSC)</p>		
3	<p>True and correct record of minutes from previous meeting</p> <p>Refer Attachment A</p> <p><u>Resolution:</u></p> <p>That the minutes of the meeting held on Teams on 7th October be formally adopted.</p>		
4	<p>Terms of reference and Budget</p> <table><tr><td>M22.10.03</td><td><p>Governance Document and Schedule 1</p><p>Scott raised a query about the current status of the nominees list. The list (Schedule 1) is kept up to date with the latest nominees by MCE but currently not distributed each time. In future a copy of schedule 1 will be emailed to the committee when it is updated refer to Attachment N.</p><p>GRC appoint CMDG committee members by position rather than name as CMDG decision making is a delegation at GRC.</p><p><u>Resolution</u></p><p>Discussion about including positions as well as names in Schedule 1. GRC have delegations to positions for making CMDG decisions. RRC to discuss internally to decide positions names/ numbers are to be added to Schedule 1. Other LGAs to consider this as well and notify MCE to action the change.</p><p><u>Action by</u></p><p>All</p></td></tr></table>	M22.10.03	<p>Governance Document and Schedule 1</p> <p>Scott raised a query about the current status of the nominees list. The list (Schedule 1) is kept up to date with the latest nominees by MCE but currently not distributed each time. In future a copy of schedule 1 will be emailed to the committee when it is updated refer to Attachment N.</p> <p>GRC appoint CMDG committee members by position rather than name as CMDG decision making is a delegation at GRC.</p> <p><u>Resolution</u></p> <p>Discussion about including positions as well as names in Schedule 1. GRC have delegations to positions for making CMDG decisions. RRC to discuss internally to decide positions names/ numbers are to be added to Schedule 1. Other LGAs to consider this as well and notify MCE to action the change.</p> <p><u>Action by</u></p> <p>All</p>
M22.10.03	<p>Governance Document and Schedule 1</p> <p>Scott raised a query about the current status of the nominees list. The list (Schedule 1) is kept up to date with the latest nominees by MCE but currently not distributed each time. In future a copy of schedule 1 will be emailed to the committee when it is updated refer to Attachment N.</p> <p>GRC appoint CMDG committee members by position rather than name as CMDG decision making is a delegation at GRC.</p> <p><u>Resolution</u></p> <p>Discussion about including positions as well as names in Schedule 1. GRC have delegations to positions for making CMDG decisions. RRC to discuss internally to decide positions names/ numbers are to be added to Schedule 1. Other LGAs to consider this as well and notify MCE to action the change.</p> <p><u>Action by</u></p> <p>All</p>		

Item	Item																																																													
	M22.10.04	<p>Population Profiles</p> <p>Population profiles to be updated.</p> <p><u>Resolution</u></p> <p>Population source suggested by GRC is to be adopted: https://population.gov.au/data-and-forecasts/dashboards/population-local-government-areas</p> <p>New population figures from 2020 are to be adopted for cost distribution between LGAs. New schedule to be generated within governance document for the population/ percentages.</p> <p>Updates to the new schedule will be triggered by any changes/ new releases to the census data.</p> <p><u>Action by</u></p> <p>MCE</p>																																																												
5	<p>Outstanding items from the previous meeting</p> <p>This includes items which were not fully resolved at the previous meeting or items not considered due to time constraints.</p> <table border="1"> <thead> <tr> <th><i>Item number</i></th><th><i>Item</i></th><th><i>Proponent</i></th></tr> </thead> <tbody> <tr> <td>M22.01.01</td><td>Website Update</td><td>All</td></tr> <tr> <td>M15.5</td><td>D1 Geometric Road Design – finalise new tables</td><td>All</td></tr> <tr> <td>M15.15</td><td>D9 Cycleway and Pathway Design revision</td><td></td></tr> <tr> <td>M16.11</td><td>C273 Landscaping – amend hydromulch spec</td><td>GRC</td></tr> <tr> <td>M15.20</td><td>PS26 Marker Posts</td><td>GRC</td></tr> <tr> <td>M22.02.05</td><td>Use of Corrugated polypropylene drainage pipes</td><td>LSC</td></tr> <tr> <td>M10.5.1</td><td>D6 Site regrading – consider retaining wall issue</td><td>LSC</td></tr> <tr> <td>M22.03.05</td><td>CP1.28 Bonding of uncompleted works. Amendments to document.</td><td>GRC</td></tr> <tr> <td>M22.04.01</td><td>Review of Reference documents in all Specifications</td><td>BSC</td></tr> <tr> <td>M22.04.04</td><td>D5 – Polypropylene maintenance structures for gravity sewers</td><td>LSC</td></tr> <tr> <td>M22.07.03</td><td>Corrugated plastic subsoil pipe</td><td>MCE</td></tr> <tr> <td>M22.07.04</td><td>RRC grated crossover drawings</td><td>RRC</td></tr> <tr> <td>M22.07.05</td><td>W-061 and W-061A – Hydrant and Valve Boxes</td><td>GRC</td></tr> <tr> <td>M22.08.01</td><td>Approaches from Industry regarding new products</td><td>MCE</td></tr> <tr> <td>M22.08.02</td><td>D14 Floodways</td><td>MCE/RRC</td></tr> <tr> <td>M22.09.01</td><td>D11 Water Supply Design – Colour and marking of Infrastructure</td><td>MCE</td></tr> <tr> <td>M22.09.02</td><td>G-018 Standard Council Grid drawing – width markers</td><td>CHRC</td></tr> <tr> <td>M22.09.03</td><td>D5 – Roof and Allotment Drainage</td><td>RRC</td></tr> <tr> <td></td><td></td><td></td></tr> </tbody> </table>		<i>Item number</i>	<i>Item</i>	<i>Proponent</i>	M22.01.01	Website Update	All	M15.5	D1 Geometric Road Design – finalise new tables	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	M22.03.05	CP1.28 Bonding of uncompleted works. Amendments to document.	GRC	M22.04.01	Review of Reference documents in all Specifications	BSC	M22.04.04	D5 – Polypropylene maintenance structures for gravity sewers	LSC	M22.07.03	Corrugated plastic subsoil pipe	MCE	M22.07.04	RRC grated crossover drawings	RRC	M22.07.05	W-061 and W-061A – Hydrant and Valve Boxes	GRC	M22.08.01	Approaches from Industry regarding new products	MCE	M22.08.02	D14 Floodways	MCE/RRC	M22.09.01	D11 Water Supply Design – Colour and marking of Infrastructure	MCE	M22.09.02	G-018 Standard Council Grid drawing – width markers	CHRC	M22.09.03	D5 – Roof and Allotment Drainage	RRC			
<i>Item number</i>	<i>Item</i>	<i>Proponent</i>																																																												
M22.01.01	Website Update	All																																																												
M15.5	D1 Geometric Road Design – finalise new tables	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																																																												
M22.03.05	CP1.28 Bonding of uncompleted works. Amendments to document.	GRC																																																												
M22.04.01	Review of Reference documents in all Specifications	BSC																																																												
M22.04.04	D5 – Polypropylene maintenance structures for gravity sewers	LSC																																																												
M22.07.03	Corrugated plastic subsoil pipe	MCE																																																												
M22.07.04	RRC grated crossover drawings	RRC																																																												
M22.07.05	W-061 and W-061A – Hydrant and Valve Boxes	GRC																																																												
M22.08.01	Approaches from Industry regarding new products	MCE																																																												
M22.08.02	D14 Floodways	MCE/RRC																																																												
M22.09.01	D11 Water Supply Design – Colour and marking of Infrastructure	MCE																																																												
M22.09.02	G-018 Standard Council Grid drawing – width markers	CHRC																																																												
M22.09.03	D5 – Roof and Allotment Drainage	RRC																																																												

Item	Item		
6	New Agenda Items		
	<i>Item number</i>	<i>Item</i>	<i>Proponent</i>
	M15.21	PS28 Gaskets	GRC
	M22.10.01	Standard Drawing CMDG-R-060	MCE/GRC
	M22.10.02	Incomplete tables of difference	GRC
	M22.10.03	Governance Document and Schedule 1	GRC
	M22.10.04	Population Profiles	GRC
7	General Business <ul style="list-style-type: none"> None 		
8	Next Meeting Next meeting to be via teams on Friday 3 rd February 2023 at 11am.		
9	CMDG Action Register The latest register is Attachment B CMDG Trial Register The latest register is Attachment C		
10	Meeting Closed at 15.00.		

Item No.	Item Details																
M22.01.01	<p>Website Update</p> <p><u>Previous Resolution</u></p> <p>On receiving the price (from LGAQ) the committee will review and compare/ assess value in relation to the original fee from Made Known in Rockhampton and determine how to proceed.</p> <p>Email sent with LGAQ quotation (Attachment F). Responses regarding acceptance of the quotation are in the table below:</p> <table border="1"> <thead> <tr> <th>Local Government</th><th>Acceptance</th></tr> </thead> <tbody> <tr> <td>Banana Shire</td><td>?</td></tr> <tr> <td>Central Highlands Regional</td><td>Yes</td></tr> <tr> <td>Gladstone Regional</td><td>Yes</td></tr> <tr> <td>Isaac Regional</td><td>Yes</td></tr> <tr> <td>Maranoa Regional</td><td>Yes</td></tr> <tr> <td>Livingstone Regional</td><td>Yes</td></tr> <tr> <td>Rockhampton Regional</td><td>Yes</td></tr> </tbody> </table> <p><u>Meeting M2022.10 Update</u></p> <p>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.</p> <p><u>Resolution</u></p> <p>GRC to engage LGAQ to complete the new CMDG website design in consultation with MCE on confirmation from BSC.</p> <p><u>Action By</u></p> <p>GRC/ MCE/ BSC</p>	Local Government	Acceptance	Banana Shire	?	Central Highlands Regional	Yes	Gladstone Regional	Yes	Isaac Regional	Yes	Maranoa Regional	Yes	Livingstone Regional	Yes	Rockhampton Regional	Yes
Local Government	Acceptance																
Banana Shire	?																
Central Highlands Regional	Yes																
Gladstone Regional	Yes																
Isaac Regional	Yes																
Maranoa Regional	Yes																
Livingstone Regional	Yes																
Rockhampton Regional	Yes																
M15.5	<p>D1 Geometric Road Design – finalise new tables</p> <p>Proposed D1 Document ver 10C is at Attachment G</p> <p><u>Previous Resolution</u></p> <p>Agreed that updating AS/NZS references and adding IRC to table D01.08.01 is required.</p> <p>Some discussion around terminology in section D01.07 and Chris to review prior to finalising document</p> <p>Discussion about updates to Austroads Part 6A in relation to the clear zone and how there is still no consensus in the industry about risk values. Grant will be attending a TMR workshop on this topic and may be able to provide further guidance following this. Item to be parked for now until more information and advice is available. Scott mentioned making sure that there are no inconsistencies, Chris to consider this and check references prior to finalising the D1 document.</p> <p>Updates discussed about we made and request for industry feedback was sent out on 25th October for a three week review period ending 15th November 2022. No feedback has been received during the review period.</p>																

	<p><u>Meeting 2022.10 Discussion 17 Nov 2022</u></p> <p>A detailed discussion was had during the meeting with the following outcomes:</p> <ul style="list-style-type: none"> • Discussion about road hierarchies and definition of road functions as well as the determination of functions as they are not just based on AADT. • Agreement reached to remove functions classifications from D1 (As per latest rev C document) • Line to be added in stating the LGA will make the final decision about road classification/ function and will provide this on application and as part of the development approval • Discussion about retaining D01.07.1 diagram. Agreed to retain as a typical layout/ example. • Add a paragraph to reference new type cross section drawings • Agreed to include the revised bus stop D01.23.02 wording from BSC (including a reference to the CMDG LGA specific pages) • Change reference in D01.12.03 from AGTM Part 8 to IPWEAQ Street Design manual 4.2 Vehicle Speeds • MCE / LGAs to ensure that lighting categories are updated to match the revised Australian Standard • Add 2. Distributor to D01.09.02 • Add line in D01.07.03 to say Distributor has the same function as Major Collector • References to AGRD02 to be changed to AGRD01 following changes to the guidance documents. • Discussion about the use of LATM devices and that these are undesirable. Words to be added to state that LATM devices are not to be used in Greenfield situations and only used on Brownfield sites with specific approval from the LGA. <p><u>Resolution</u></p> <p>Updated document to be sent around to committee for a 2 week review period following completion of changes.</p> <p><u>Action By - MCE</u></p>
M15.15	<p>D9 Cycleway and Pathway Design revision – Awaiting Action</p> <ul style="list-style-type: none"> • Previous resolution was <p><i>Cardno to check D9 and check where we are at with the changes</i></p> <ul style="list-style-type: none"> • MCE have completed a review of the document and are in the process of updating the document for review by the committee <p><u>Previous resolution</u></p> <p>Discussed and agreed to minimise level of detail and refer to Austroads. MCE to complete draft and forward to committee for review.</p> <p><u>Current Status</u></p> <p>In progress. Send to committee for review when complete.</p> <p><u>Action By</u> MCE</p>
M16.11	<p>C273 Landscaping – amend hydromulch spec</p> <ul style="list-style-type: none"> • 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 <p><u>Previous Resolution 24 June 2022</u></p> <p>GRC, MRC, LSC are happy with the revised specification. RRC, IRC, CHRC, BSC to review and provide feedback/ acceptance.</p>

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.

Current Status – 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

Reclamer 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

Old Bluegrass

- one of the native seed types specified by Dennis Contracting is black speargrass (not sure we want to encourage its use??)

	<ul style="list-style-type: none"> 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. <p><u>Meeting M2022.10 Discussion 17 Nov 2022</u></p> <p>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.</p> <p><u>Resolution</u></p> <p>Grant volunteered the services of the RRC landscape architect to review and comment on the changes. Chris to liaise with Michael Ramsay from RRC.</p> <p>Brendan noted that NATSpec includes application rate for grasses and will send details to Chris.</p> <p><u>Action By</u></p> <p>MCE/RRC/GRC</p>
--	--

m	<p>PS26 Marker Posts</p> <ul style="list-style-type: none"> • Attachment K is draft PS26 provided by GRC • The previous resolution was: <p><i>Amended Purchase Spec PS26 provided by GRC.</i></p> <ul style="list-style-type: none"> • <i>All Councils to confirm if they use timber marker posts or not</i> • <i>If no Councils use timber posts this will be replaced on CMDG-W-060 with Flat posts</i> • <i>Councils to confirm which colours for which applications</i> <ul style="list-style-type: none"> • Need guidance on the above dot points so that PS26 can be finalised. <p>Timber posts responses received:</p> <table border="1"> <thead> <tr> <th>Local Government</th><th>Timber posts permitted</th></tr> </thead> <tbody> <tr> <td>Banana Shire</td><td>No</td></tr> <tr> <td>Central Highlands Regional</td><td>Yes</td></tr> <tr> <td>Gladstone Regional</td><td>No</td></tr> <tr> <td>Isaac Regional</td><td>Yes</td></tr> <tr> <td>Maranoa Regional</td><td>Yes</td></tr> <tr> <td>Livingstone Regional</td><td>No</td></tr> <tr> <td>Rockhampton Regional</td><td>No</td></tr> </tbody> </table> <p><u>Previous Resolution</u></p> <p>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.</p> <p><u>Current Status</u></p> <p>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.</p> <p>Some discussion on background</p> <p>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.</p> <p><u>Meeting M2022.10 Discussion 17 Nov 2022</u></p> <p>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.</p> <p>Hold PS26 until the above issue is sorted out.</p> <p><u>Suggested Resolution</u></p> <p>TBC</p> <p><u>Action By</u></p> <p>All</p>	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
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																
M22.02.05	<p>D5 – Use of corrugated polypropylene drainage pipes- Awaiting Action</p> <ul style="list-style-type: none"> • LSC is suggesting use of corrugated polypropylene drainage pipes. 																

6-2021	CMDG-D, CMDG-D5, C221.		Addition of corrugated polypropylene drainage pipes.	<p>Twin wall corrugated polypropylene drainage pipes offer many benefits compared to reinforced concrete pipes. Benefits include:</p> <ul style="list-style-type: none"> • 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 <p>1.1 CMDG-D, CMDG-D5, C221. Addition of corrugated polypropylene drainage pipes.</p>
--------	------------------------	--	--	--

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

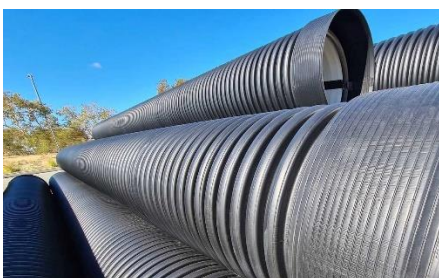
D05.18. PIPE MATERIAL

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
 - 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
	<p>Commentary around impact on plastic pipes due to grass fires etc in rural areas.</p> <p><u>Previous Resolution</u></p> <p>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.</p> <p><u>Current Status</u></p> <p>In progress. Version 9 of D5 is included as Attachment D. Updated C221 to be sent to committee for review when completed.</p> <p><u>Action By</u></p> <p>MCE</p>	
M10.5.1	<p>D6 Site Regrading – consider retaining wall issue Awaiting Action</p> <ul style="list-style-type: none"> The previous resolution was Meeting 10 – Sub Committee of Amal Meegahawattage (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 <p><u>Previous Resolution</u></p> <p>Jamie and Chris to discuss further and determine a potential resolution.</p> <p><u>Discussion</u></p> <p>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.</p> <p><u>Resolution</u></p> <p>Jamie and Chris to discuss further and determine a potential resolution.</p> <p><u>M2022.09 Update:</u></p> <p>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.</p> <p><u>M2022.10 17 Nov 2022 Update:</u></p> <p>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.</p> <p><u>Action By</u></p> <p>MCE/RRC</p>	

CP1.28 Bonding of uncompleted works. Amendments to document

- The meeting 15 resolution on this was “Take out of agenda for now. GRC will provide additional information and commentary for clarity”.
- GRC have provided a marked up version of CP1 with proposed changes mainly around the use of bonding deeds but also other issues – refer to comments in Right hand column..
- **Attachment R1** is the CP1 Ver 4 Draft document and **Attachment R2** is an example bonding deed used by RRC.
- **Attachment R3** is the existing CP1B Security Lodgement Form. It is suggested that this form be retained as it has value in calculating the bond amount based on information provided by the RPEQ Engineer. The bonding deed is then the agreement between the Council and the developer which quotes the calculated bond amount.

Previous Resolution

The CP1 Version 4 draft be adopted with changes below and loaded up to the website.

- The bonding deed be provided in MS Word format on the website
- General acceptance of CP1 version 4:
- Remove drainage from uncompleted works bond
- Insertion of “approval prior to submission” clause
- 4. a) Security lodgement form or bonding deed to be completed....
- Remove bond value factor table from Security Lodgement Form.
- E) Timeframes to be put on all uncompleted works bonds – to be approved by Council
- F) A bonding deed must be signed for all bonding deeds.
- Add “The developer must comply with any other requirements imposed by Ergon Energy”
- Add to Table CP1.28.1:

	Incomplete Works Bond Multiplier	Security Lodgement Form	Bonding Deed	Acceptance of the RRC bonding deed
Banana Shire	1.5	Yes	No	N/A
Central Highlands Regional	1.5	Yes	No	N/A
Gladstone Regional Council	1.5	No	Yes	No
Isaac Regional Council	1.5	No	Yes	Yes
Livingstone Shire Council	2.0	Yes	Yes	Yes
Maranoa Regional Council	1.5	Yes	No	N/A
Rockhampton Regional Council	2.0	No	Yes	Yes

Councils to confirm whether security lodgement form or bonding deed is required.

Current Status

Changes made but awaiting confirmation from BSC, CHRC, IRC and LSC on security lodgement form or bonding deed is used. Issue 5 of CP1 and CP1.B are included in **Attachment L1 and L2**.

Is the intent to put the bonding deeds on the CMDG website? Does this require separate forms for each Council?

RRC considering revising incomplete works bond multiplier to 1.5 in line with majority of other LGAs.

Previous Resolution

Brief discussion on the use of bonding deeds vs security lodgement forms. Agreed to upload both to website.

Scott to check if GRC are happy to adopt the RRC bonding deed. Other LGAs to check internally as well.

M2022.10 Discussion 17 Nov 2022

	<ul style="list-style-type: none"> Some discussion about the use of templates and the relevance of the procedure. LGAs to review CP1 to ensure that the processes/ procedures are still relevant. <p><u>M2022.10 Resolution 17 Nov 2022</u></p> <ul style="list-style-type: none"> RRC to confirm the multiplier change to 1.5. LSC to consider changing the multiplier to 1.5 to align with other LGAs. CMDG proforma to be added for the bonding deed for LGAs that are in agreement. Note to be added to refer to LGA specific requirements for bonding agreements if the CMDG standard bonding deed (ie the RRC example) is not to be utilised. Revised CP1 document to be uploaded to the website following confirmation from LGAs. <p><u>Action By :</u> All</p>
--	--

Review of Reference documents in all Specifications

- 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.

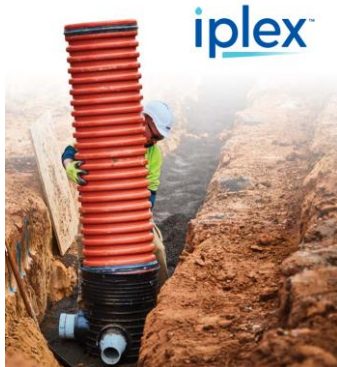
M2022.09 Resolution

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 Floodways (DRAFT)		Yes	RRC (Grant)																
	D15 Driveways	Jun 2018	Yes	BSC (Daniel)																
M22.04.04	<p>D5 – Polypropylene maintenance structures for gravity sewers</p> <ul style="list-style-type: none"> Iplex has requested that CMDG D5 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 EZI pit has been around for a number of years - with about 15 years of use in Australia and 35 years use in Europe.  <p>Use of polypropylene maintenance structures - responses received so far:</p> <table border="1"> <thead> <tr> <th>Local Government</th> <th>Acceptance</th> </tr> </thead> <tbody> <tr> <td>Banana Shire</td> <td>No</td> </tr> <tr> <td>Central Highlands Regional</td> <td>?</td> </tr> <tr> <td>Gladstone Regional</td> <td>No</td> </tr> <tr> <td>Isaac Regional</td> <td>Yes</td> </tr> <tr> <td>Maranoa Regional</td> <td>No</td> </tr> <tr> <td>Livingstone Regional</td> <td>?</td> </tr> <tr> <td>Rockhampton Regional</td> <td>No?</td> </tr> </tbody> </table> <p><u>M2022.10 Discussion</u></p> <ul style="list-style-type: none"> Some discussion and revisiting of LGA preferences for maintenance shafts in CMDG Some feedback that internal ribbing could hold up debris <p><u>M2022.10 Resolution</u></p> <ul style="list-style-type: none"> 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. <p><u>Action By</u> LSC/ CHRC/ MCE</p>				Local Government	Acceptance	Banana Shire	No	Central Highlands Regional	?	Gladstone Regional	No	Isaac Regional	Yes	Maranoa Regional	No	Livingstone Regional	?	Rockhampton Regional	No?
Local Government	Acceptance																			
Banana Shire	No																			
Central Highlands Regional	?																			
Gladstone Regional	No																			
Isaac Regional	Yes																			
Maranoa Regional	No																			
Livingstone Regional	?																			
Rockhampton Regional	No?																			

M22.07.03	<p>Corrugated plastic subsoil pipe</p> <p>Following a query from a contractor regarding subsoil pipe alternatives, the question around the acceptability of 100mm corrugated plastic subsoil pipes has arisen. Currently CMDG C230 specifically excludes the use of corrugated plastic subsoil drainage pipes.</p> <p style="text-align: center;">MATERIALS</p> <p>C230.12 APPROVED PLASTIC MATERIALS</p> <p>C230.12.01 Strip filter drains are approved. Strip Filter Drains are a proprietary product, deep-fin plastic core, 120kPa minimum crush strength, 40mm minimum thickness, fully enclosed by a non-woven geotextile and shall be in accordance with MRTS03 - Drainage, Retaining Structure and Protective Treatments. <i>Specification</i></p> <p>C230.12.02 Corrugated plastic subsoil drainage pipe is not approved for use.</p> <p>100mm corrugated plastic subsoil pipes are still the standard in the industry and are currently getting installed all over the region by multiple different contractors. Corrugated plastic subsoil pipe is on the design drawings submitted by different consultants and approved by councils. It is also not getting flagged on council inspections. It is shown on the standard drawings D-040 and D-041 (subsoil drainage details). Even though the specs override the drawings, drawings are the main thing that people seem to refer to.</p> <p>For discussion</p> <table border="1" data-bbox="491 913 1284 1317"> <thead> <tr> <th>Local Government</th><th>Acceptance</th></tr> </thead> <tbody> <tr> <td>Banana Shire</td><td>Yes</td></tr> <tr> <td>Central Highlands Regional</td><td>Yes</td></tr> <tr> <td>Gladstone Regional</td><td>Yes</td></tr> <tr> <td>Isaac Regional</td><td>?</td></tr> <tr> <td>Maranoa Regional</td><td>?</td></tr> <tr> <td>Livingstone Regional</td><td>Yes</td></tr> <tr> <td>Rockhampton Regional</td><td>Yes</td></tr> </tbody> </table> <p><u>M2022.10 Resolution</u></p> <p>On confirmation from IRC and MRC, C230 is to be updated to allow the use of 100mm corrugated plastic subsoil pipe. Class 1000 to be used in the road and 400 used in non-trafficked areas. Reference to AS 2439.1 is to be added.</p> <p><u>Action By</u></p> <p>IRC, MRC, MCE</p>	Local Government	Acceptance	Banana Shire	Yes	Central Highlands Regional	Yes	Gladstone Regional	Yes	Isaac Regional	?	Maranoa Regional	?	Livingstone Regional	Yes	Rockhampton Regional	Yes
Local Government	Acceptance																
Banana Shire	Yes																
Central Highlands Regional	Yes																
Gladstone Regional	Yes																
Isaac Regional	?																
Maranoa Regional	?																
Livingstone Regional	Yes																
Rockhampton Regional	Yes																
M22.07.04	<p>RRC grated crossover drawings</p> <p>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.</p> <p>RRC have requested, via Grant, that these two drawings be included in CMDG.</p> <p><u>M2022.10 Discussion</u></p> <p>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</p>																

	<p>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.</p> <p><u>M2022.10 Resolution</u></p> <p>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.</p> <p>Minor changes:</p> <ul style="list-style-type: none"> • 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 <p><u>Action By</u> MCE</p>
M22.07.05	<p>W-061 and W-061A – Hydrant and Valve Boxes</p> <p>Scott noted that there was a drafting error on drawing W-061. As part of the review process it was noted that the drawings contain significant levels of information for products that are off the shelf. There is widespread use of the polypropylene boxes within the roadway in many locations around Rockhampton, this may be due to the interpretation around the note on drawing W-061A:</p> <p style="text-align: center;"><u>POLYETHYLENE SURFACE BOX – HYDRANT/VALVE</u> NOTE: BOX NOT RECOMENDED FOR HEAVY, FAST MOVING TRAFFICABLE AREAS</p> <p>For discussion</p> <p>The proposed drawings removes many of the redundant dimensions but still retains key information and combines both drawings W-061 and W-061A Attachment U.</p> <p>Refer to Attachment M for examples of incorrect hydrant/ valve box use.</p> <p><u>M2022.10 Discussion</u></p> <p>Jamie mentioned that there are different classes of the polyethylene surface boxes with some rated for use the road, which FRW have been using. However, they have been noting a number of failures and are replacing these with cast iron boxes.</p> <p><u>M2022.10 Resolution</u></p> <p>MCE to complete minor amendments to the updated drawing W-061 which combines the polypropylene detail from W-061A and remove W-061A. Drawing to be sent to committee for final review.</p> <p>Minor changes:</p> <ul style="list-style-type: none"> • Move plan layouts to match valve lids • Add table for valve labels and show one example for each lid size • Add extra valve lid (3 total) with sizes as per the original W-061 and W-061A <p><u>Action by</u> MCE</p>
M22.08.01	<p>Approaches from Industry regarding new products</p> <p>MCE are regularly approached by companies presenting new products or trying to get existing products approved for use in the region covered by CMDG. Currently we review these requests and forward relevant information to the committee for information or present for discussion at a meeting when changes to CMDG documentation may be required or beneficial.</p>

	<p>MCE are seeking direction on the committee's preference for dealing with these requests.</p> <p><u>M2022.10 Resolution</u></p> <p>Continue the current approach as outlined above</p> <p><u>Action By</u></p>						
M22.08.02	<p>D14 Floodways</p> <p>The previous resolutions on this document are below. The current document is at Attachment E.</p> <table border="1"> <tr> <td>Meeting 11 13 Mar 2018</td><td> <p>D14 Floodways</p> <p>a. Cardno to revise D14 using the new layout and document structure provided by RRC</p> <p>b. Table D14.09.01 needs revision and clarity eg d50 c. SPA and IDAS references need to be amended</p> </td></tr> <tr> <td>Meeting 12 25 Oct 2018</td><td> <p>D14 Floodways</p> <p>'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.</p> </td></tr> <tr> <td>Meeting 13 14 Mar 2019</td><td> <p>Dev (LSC) is currently working on a new draft for D14 Floodways</p> </td></tr> </table> <p>A draft of D14 was prepared in 2018 but does not appear to have progressed since.</p> <p><u>M2022.10 Resolution</u></p> <p>Jon to check with Dev if new draft of D14 exists and forward to committee. Grant to review D14 when possible.</p> <p><u>Action By</u></p> <p>LSC/RRC</p>	Meeting 11 13 Mar 2018	<p>D14 Floodways</p> <p>a. Cardno to revise D14 using the new layout and document structure provided by RRC</p> <p>b. Table D14.09.01 needs revision and clarity eg d50 c. SPA and IDAS references need to be amended</p>	Meeting 12 25 Oct 2018	<p>D14 Floodways</p> <p>'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.</p>	Meeting 13 14 Mar 2019	<p>Dev (LSC) is currently working on a new draft for D14 Floodways</p>
Meeting 11 13 Mar 2018	<p>D14 Floodways</p> <p>a. Cardno to revise D14 using the new layout and document structure provided by RRC</p> <p>b. Table D14.09.01 needs revision and clarity eg d50 c. SPA and IDAS references need to be amended</p>						
Meeting 12 25 Oct 2018	<p>D14 Floodways</p> <p>'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.</p>						
Meeting 13 14 Mar 2019	<p>Dev (LSC) is currently working on a new draft for D14 Floodways</p>						

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) in 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 – hydrants) in the location perpendicular to the asset. Painted area is to be 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			
H	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 Water 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
???	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.

Action By

All

M22.09.02	<p>G-018 Standard Council Grid drawing – width markers</p> <p>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.</p> <p>Response from MCE:</p> <p>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.</p> <p>I think that the best approach would be to review G-018, potentially with the view to combine it with G-020.</p> <p><u>M2022.10 Discussion</u></p> <p>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.</p> <p><u>M2022.10 Resolution</u></p> <p>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.</p> <p><u>Action By</u> MCE, CHRC, LSC, BSC, MRC</p>
-----------	--

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

1. 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.
2. 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.
3. 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	30%	2
	Major drainage system	2%	50
Residential developments (Low density residential)	Minor drainage system	30%	2
	Major drainage system	2%	50
	Roof water drainage	Level II QUDM	
Residential developments (Low-medium density to High density)	Minor drainage system	10%	10
	Major drainage system	2%	50
	Roof water drainage	Level III and Level IV QUDM	
Industrial uses	Minor drainage system	30%	2
	Major drainage system	2%	50
	Roof water and lot drainage	Level IV QUDM	
Commercial land uses (centre zones)	Minor drainage system	10%	10
	Major drainage system	2%	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. No grated inlets.
Central Highlands Regional	II (Note 1)	
Gladstone Regional	III (Note 2)	Connections must be to pits.
Isaac Regional	II (Note 1)	Connection to main is permitted. No grated inlets.
Maranoa Regional	II (Note 1)	
Livingstone Shire	II (Note 1)	
Rockhampton Regional	II (Note 1)	

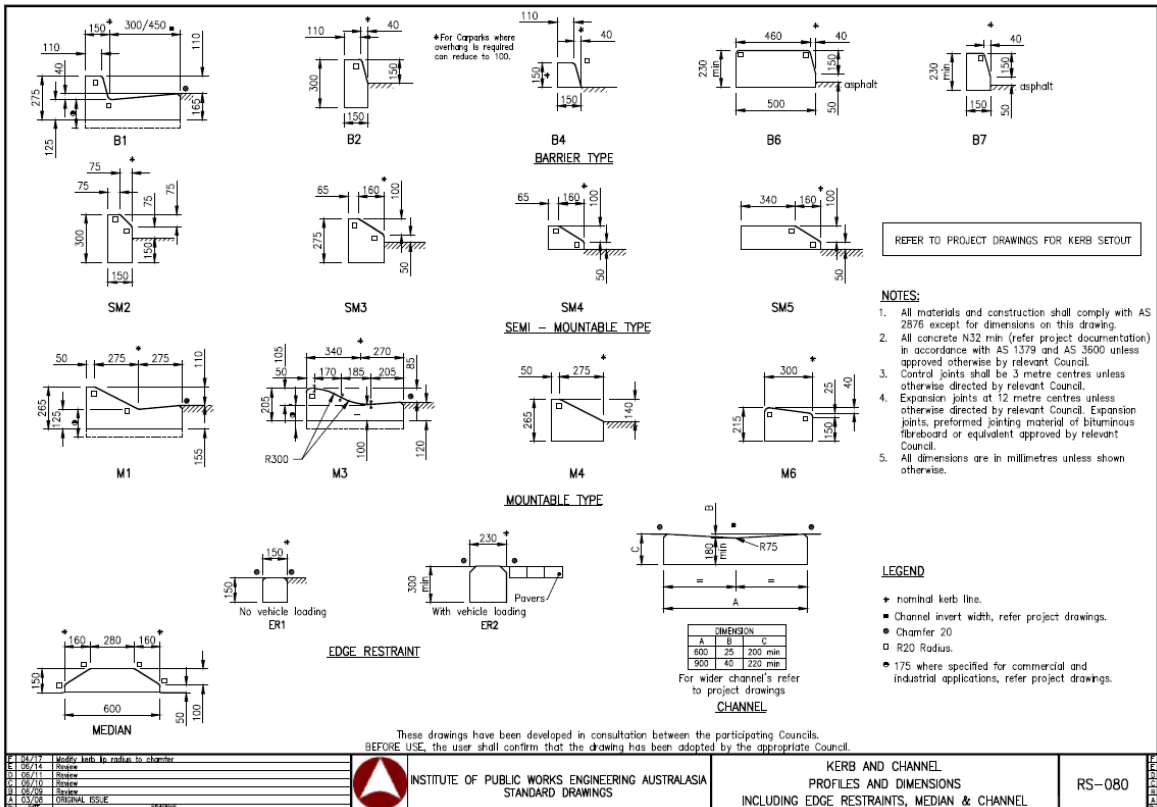
Note 1: Level III inter allotment drainage may be required by the Local Authority in some instances (e.g. steep slopes).

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

Suggested resolution

TBC

Action By MCE

M15.21	<p>PS28 Gaskets</p> <p><u>Previous resolution</u></p> <p>Applicability is Yes to all LGAs. Adopt amended gasket spec and upload to website</p> <p>Prior to upload it was noted that the current document refers to WSA 109-2011 that has been superseded by WSA 109-2021. The document has been updated by MCE/ GRC to suit the changes to WSA 109. The revised document PS-28 Rev D is included as Attachment O and the previous rev C document is Attachment P.</p> <p><u>M2022.10 Resolution</u></p> <p>Upload revised document to website.</p> <p><u>Action</u></p> <p>MCE</p>												
M22.10.01	<p>Standard Drawing CMDG-R-060 No resolution this meeting</p> <p>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.</p> <div><p>The drawing includes the following sections:</p><ul style="list-style-type: none">Barrier Type: Profiles B1, B2, B4, B6, B7.Semi-Mountable Type: Profiles SM2, SM3, SM4, SM5.Mountable Type: Profiles M1, M3, M4, M6.Edge Restraint: Profiles ER1 (No vehicle loading) and ER2 (With vehicle loading).Channel: Profile CH1 (Median).<p>NOTES:</p><ol style="list-style-type: none">All materials and construction shall comply with AS 2876 except for dimensions on this drawing.All concrete N32 min (refer project documentation) in accordance with AS 1379 and AS 3600 unless approved otherwise by relevant Council.Control joints shall be 3 metre centres unless otherwise directed by relevant Council.Expansion joints at 12 metre centres unless otherwise directed by relevant Council. Expansion joints, preformed jointing material of bituminous fibreglass or equivalent approved by relevant Council.All dimensions are in millimetres unless shown otherwise.<p>LEGEND</p><ul style="list-style-type: none">— nominal kerb line.■ Channel invert width, refer project drawings.□ Chamfer 20○ R20 Radius.● 175 where specified for commercial and industrial applications, refer project drawings.<p>DIMENSION TABLE:</p><table><tr><th>DIMENSION</th><th>A</th><th>B</th><th>C</th></tr><tr><td>600</td><td>25</td><td>200 min</td><td></td></tr><tr><td>900</td><td>40</td><td>220 min</td><td></td></tr></table><p>For wider channel's refer to project drawings</p><p>These drawings have been developed in consultation between the participating Councils. BEFORE USE, the user shall confirm that the drawing has been adopted by the appropriate Council.</p><p>INSTITUTE OF PUBLIC WORKS ENGINEERING AUSTRALASIA STANDARD DRAWINGS</p><p>KERB AND CHANNEL PROFILES AND DIMENSIONS INCLUDING EDGE RESTRAINTS, MEDIAN & CHANNEL</p><p>RS-080</p></div>	DIMENSION	A	B	C	600	25	200 min		900	40	220 min	
DIMENSION	A	B	C										
600	25	200 min											
900	40	220 min											

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		
Central Highlands Regional		
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	TBA	TBA	TBA
Central Highlands Regional	TBA	TBA	TBA
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	12m	15L/s for 2h for low and medium density residential 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	
Central Highlands Regional	Yes	
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	TBA
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		
Central Highlands Regional		
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	
Central Highlands Regional	250 L/d/EP	
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	TBA
Central Highlands Regional	TBA
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	TBA
Central Highlands Regional	No
Gladstone Regional	Yes
Isaac Regional	TBA
Maranoa Regional	No
Livingstone Regional	TBA
Rockhampton Regional	No

Suggested resolution

TBC

Action By MCE