CAPRICORN MUNICIPAL DEVELOPMENT GUIDELINES

2022 MEETING 05 MINUTES

Venue: Teams Meeting

Date and Time: **27 May 2022 11:00 am**

Item	Item
1	**Welcome** **Attendance:** Chris Hegarty (MCE), Richard Bywater (MCE), Grant Vaughan (RRC), Jamie McCaul (RRC), Brendan Fuller (GRC), Graham Sweetlove (MRC), Mohit Paudyal (RRC), Daniel Price (BSC), Kym Downey (CHRC), Jon Ashman (LSC)
2	**Apologies** Scott McDonald (GRC), Anthony Lipsys (BSC), Greg Abbotts (LSC), Allan Heit (BSC), Tony Lau (LSC), Michael Stanton (IRC), Joel Kuczynski (IRC)
3	**True and correct record of minutes from previous meeting** Refer **attachment A** <u>Resolution:</u> That the minutes of the meeting held on Teams on 1 April 2022 be formally adopted.
4	**Terms of reference and Budget** No specific agenda items this week. Request from Brendan (GRC) to invoice before the end of the financial year. Agreement to invoice mid June.
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
M22.01.04	D1 – IRC and CHRC Rural Roads Tables	IRC
M15.5	D1 Geometric Road Design – finalise new tables	All
M15.18	D1 Geometric Road Design – solar lighting rural and urban	GRC
M15.8	D1 Geometric Road Design – Rural Heavy Industry Access Road	IRC
M15.7	D2 Pavement Design – amend APRG Report 21 as outdated reference and LSC to review design procedure and references	LSC
M15.15	D9 Cycleway and Pathway Design revision	
M15.16	Draft underbore detail	
M16.5	D5 Stormwater Design – Provide template for SWMP	GRC
M16.9	PS5 PVC Pressure Pipe (Poly services to be PN16 not PN 12)	GRC

Item	Item

M16.10	Trial Register	LSC
M16.11	C273 Landscaping – amend hydromulch spec	GRC
M15.20	PS26 Marker Posts	GRC
M15.21	PS28 Gaskets	GRC
M15.22	C242 Pavements – Amend references as advised by GRC	GRC
M22.01.08	CMDG-S-030 Type C Vertical H.C.	RRC
M22.02.07	CMDG-W-040 and S-090 Trenching Detail	
M22.02.04	CMDG-R-050 Drawing review	LSC
M22.02.05	Use of Corrugated polypropylene drainage pipes	LSC
M22.02.06	CMDG-D-033 Use of Precast Square roof water pits	LSC
M10.5.1	D6 Site regrading – consider retaining wall issue	LSC
M22.03.01	Lockrail park access	
M22.03.02	CMDG-G-20 Heavy Duty Cattle Grid Drawing Updated	GRC
M22.03.03	D2, C242 & C221 Use of Recycled Glass	GRC
M13.10	D11 and D12 -Removal of "Trunk" and "Non-Trunk" wording from scope section. D11.01.01 and D12.01.01	GRC
M22.03.05	CP1.28 Bonding of uncompleted works. Amendments to document.	GRC
M22.04.01	Review of Reference documents in all Specifications	BSC
M22.04.02	D1 – Road Truncations	GRC
M22.04.03	D1 - National Light Pollution Guidelines for wildlife	GRC

6 **New Agenda Items**

Item number	***Item***	***Proponent***

7 **General Business**

- Drawing R-055. Richard presented comments received from GRC:
    - 3 bands of tape on bollards - reduce to 1 to match most proprietary products
    - remove CCA pine bollard as an option from the 1300 bollard as this is generally for use in disabled car parks.
  - Agreement from the committee to make changes and upload drawings to website.
- Drawing R-058. Discussion about joint spacing, general agreement to adopt 1.5 x path spacing. Brendan to confirm whether GRC will adopt this or have another clause/ table of difference to have minimum spacing of 3m.

Item	Item
8	**Next Meeting** Next meeting to be Friday 24/06/22 via Teams. Meeting in Calliope to be 04/08/22.
9	**CMDG Action Register** The latest register is **Attachment B**
10	**Meeting Closed at 12:30pm**

Item No.	Item Details
M22.01.01	**Website Update** • Preparation of a brief is currently underway. Previous resolution on 1 April 2022 was Jamie mentioned that there has been internal discussion at RRC regarding the tender assessment criteria. Grant to provide further details in relation to the assessment criteria. Potential for MCE to facilitate website tender process. Draft scope document to be sent to Scott for GRC procurement/ legal team to review. Action By Grant Vaughan (RRC) and Richard Bywater (MCE) Feedback has now been received from a number of Councils and the latest document incorporating this feedback is attached (**Attachment C**). There are two points in the scope of works that are highlighted in yellow for consideration. Richard has added his thoughts to promote discussion. Scott from GRC has indicated that there may be an opportunity to do the work through LGAQ (Using Jadu) which apparently is a platform utilised by many Local Governments. GRC are happy for work to be done through MCE with certain provisos including ownership of website and transfer of all info if MCE no longer in the role etc Resolution GRC to further investigate opportunity through LGAQ. Richard (MCE) to remove social media and search engine optimisation from the scope requirements. Richard to include Jadu as a preference for the proposed website content management system. Chris to send clause from governance document regarding website ownership including I.P. address. MCE to organise procurement of new website once details are confirmed and final acceptance received from the committee. Action By GRC and MCE
M22.01.04	**D1 – IRC and CHRC Rural Roads Tables** • Proposed changes to IRC and CHRC rural roads tables have been emailed out. • Awaiting IRC and CHRC approval for changes before implementing • This item will now be superseded by the new D1 Urban and Rural Tables when received – suggest no action at this time. Suggested Resolution Nil Action By
M15.5	**D1 Geometric Road Design – finalise new tables** The current status as per email 19 May is • Urban and Rural Tables progressing but not yet complete • Industry Consultation likely for RRC and CHRC due to significant changes • Type section drawings are in draft (feedback from GRC is that drawings numbers should be left vacant between urban and rural dwgs to allow for future cross sections eg Laneway, Living Street or others)

	Proposed D1 Document is at **Attachment D**
	Proposed Type Section standard drawings at **Attachment E**
	
	<u>Action By All</u>
	
	<u>Resolution</u>
	Tables:
	• RRC – Jamie to tidy up a few minor errors and send new version to Chris
	• CHRC – Kym to send through details/ response to proposed changes made by Chris. Confirmed that industry consultation with be completed.
	• GRC – to confirm details around industrial access – in progress
	• MRC – Graham is awaiting feedback internally to MRC
	• LSC – Rural table to be provided/ confirmation that RRC table will be used. Chris to send to Jon for comment.
	D1 document:
	• Chris to remove references to Councils in the document – should be Local Governments.
	• Richard to update standard drawings with discussed minor changes and additional cross section on the industrial collector drawing (line marked median)
	• Jamie discussed RRC comments on the document – Chris to implement changes as follows:
	  ○ Include reference to Planning Regulations
	  ○ Remove references to IMEA
	  ○ Number each clause
	  ○ Under road hierachy section review terminology to ensure different terminologies used in the D1 tables are included eg Access Street / Local Access.
	  ○ Reword D1.09 Truncations clause 3 for clarity
	  ○ Remove In very flat conditions it may be reduced to 0.3% from section D1.11 Longitudinal Gradient
	  ○ D1.18 Clause (f) Critical dimensions – replace two lane 5.5m minimum to reference D1 tables instead.
	  ○ D1.21 Bus Routes Clause 1 – replace 5% of residents with 10% of residents
	• D1.2.6 Clear Zone Width was discussed in relation to the changes to Austroads part 6. Resolution from committee was to leave as is for now and monitor how other organisations implement changes.
	<u>Action By</u>
	All

M15.18	**D1 Geometric Road Design – Solar Lighting** • The previous resolution was: <u>The Resolution from the 29 April meeting was</u> • Some discussion and concerns from RRC about maintenance and long-term cost of new electrical assets that would have to be owned by Councils. • Scott to investigate the use of commercial agreements for solar lighting at GRC. • Tony to provide LSC solar lighting policy to committee as a comparison. • Grant to discuss changes/ introduction of solar lights with RRC management. <u>Further to the resolution above</u> • The D1 Draft including solar lights has been prepared • In relation to the nature and application of funding agreements - *further discussion required on this aspect – see commentary below between Jamie and Chris*) • LSC to review in comparison with internal policies (*unsure of current status*)

	• *PS for solar lights has been provided and attached **Attachment F** – not sure if this was approved previously so proposed resolution to approve this meeting*) 2) The provision of lighting is within a community titled subdivision where the Local Government Council is not responsible for its ongoing operations and maintenance; Even though the assets within Community Title are not Councils, I'm assuming they would still have to comply with the relevant AS to ensure the road network is safe and fit for purpose. Again I would have no concern here if the development was also tied into the grid as a back up. Who would maintain, the body corporate ? I am not really concerned with this one. If its wholly within the Community Title property then The Body Corporate should maintain. However, how is the body corporate made aware of this? And yes I know if there is an issue they will always come back to Council first! The GRC policy statement file note has the community titled option (2) as urban designation. Again I can't see a community titled development (urban) being approved in a remote location that doesn't have access to services. If this is the case then would they just connect to the grid. Do we want to encourage any community title development outside of serviced areas in any case? 3) The provision of lighting is to be on a Local Government Council controlled road and a funding agreement is secured between the Local Government Council and the developer or the manufacturer of the lighting equipment for that developer or manufacturer to accept the costs of the future operation and maintenance of that lighting; Concern is once the developer finishes the development they will move on. How can we tie them to the future operation or maintenance of the lighting ? The manufacturer, maybe there is a guarantee for the operation over a certain period. However, I assume all the lighting will still need to be tied into the grid to ensure that compliance with the AS is achieved and the road network is safe. If a developer is happy with the additional spend, then ok, but can't imagine Council would be keen on any additional maintenance burden and I'm not sure how we could tie the maintenance to anyone else? I do not think you can tie the maintenance to anyone else , Council has to do that. However, what you can do is have the agreement cover the NPV costs for maintenance and operation for say 20 years?, 50 years? Not sure what you mean by it being tied into the grid – wont these be in remote locations? Yes we need to discuss this item further to get clarity. I think a table of difference on this matter would be messy – best to agree on this I think. Thanks for this. I cannot see any commentary in there regarding this option is for remote locations where we don't have access to the grid. In fact it has also been given an urban designation. Possibly I'm not understanding the intent correctly. <u>Resolution</u> Jamie/ RRC to redraft the solar lighting paragraph 1 in D1. <u>Action By</u> RRC
M15.7	**D1 Geometric Road Design – Rural Heavy Industry Access Road** – Not discussed • **Attachment G** is the previous information provided on this matter referred to in the resolution below. • The following resolution was made in late 2020. *Question raised by IRC for the consideration of the inclusion of a "Rural Heavy Industry Access Road" (Mine Access) or similar wording with appropriate associated elements within the Road hierarchy.*

	- *GRC to provide the TMR drawing for Industrial Collector that was presented in the meeting. This will be distributed to the other council's.* - *Street Type to be added to table D2.08.1 "Resource Access Road"* - *IRC to provide proposal for inclusion into CMDG.* - *SD1807 provided for information* - *GRC Standard Drawings attached for information* • Need to discuss the status of this item and any proposed changes to D1 and D2. The resolution from the 1 April 2022 meeting was • Further information required from IRC • Committee to review GRC drawings to determine if they should be added to CMDG standard drawings. Action By IRC, All Suggested Resolution Nil Action By
M15.7	**D2 Pavement Design – amend APRG Report 21 as outdated reference and LSC to review design procedure and references** – Not discussed Previous Resolution at 1 April 2022 was Grant to review document and construction specification (e.g. C242) Action By RRC Suggested Resolution Nil Action By
M15.15	**D9 Cycleway and Pathway Design revision** – Not discussed • Previous resolution was *Cardno to check D9 and check where we are at with the changes* • MCE have not progressed the review at this stage. Suggested Resolution Nil Action By MCE
M15.16	**Draft Underbore Detail** – Not discussed • The previous resolution was *Cardno to provide draft underbore detail for consideration.* • MCE intend to progress this item with a draft drawing based on SEQ – any examples or advice on content from members would be appreciated.

	Suggested Resolution Nil Action By MCE
M16.5	**D5 Stormwater Design – Template for SWMP** – Not discussed • Previously an agenda item 16.5 (Meeting did not proceed) • GRC have provided a template **Attachment H** for consideration and discussion. • Clause D05.21 currently reads as follows. D05.21. SITE BASED STORMWATER MANAGEMENT PLAN (SWMP) D05.21.01. Where required by Council, the developer is obliged to submit Site Based Stormwater Management Plan addressing Quantity and Quality aspects of stormwater management. Suggested Resolution That the Stormwater template be included as Annexure D05A and Clause D05.21 be amended to reference the new Annexure. Action By MCE
M16.9	**PS5 PVC Pressure Pipe (Poly services to be PN16 not PN 12)** – Not discussed • PS-4 CMDG Purchase Specification. Clause 4.0. Pressure Classification (PN) – New Installations – PN 12.5 (1250 KPa or 1.25 MPa @ 20o C). 4.0 Pressure Classification (PN) – New Installations - PN 12.5 (1250 kPa or 1.25 MPa @ 20° C); Repairs - PN 16 (1600 kPa or 1.6 MPa @ 20° C). See **Attachment E for current PS-4 Purchase Specification** **Proposal:** • PS-5 CMDG Purchase Specification Clause 5.0 Pressure Classification (PN) – (generally below ground use) uPVC Series 2 - PN 12; MPVC Series 2 - PN 16; OPVC Series 2 - PN 16, Material Class 400. *PS-5 Clause 5 for reference* 5.0 Pressure Classification (PN) – (generally below ground use) uPVC Series 2 - PN 12; MPVC Series 2 - PN 16; OPVC Series 2 - PN 16, Material Class 400. • Current Guidelines require water mains to be PN16, but the poly services are required to be PN12. • Pressure Testing reaches 1250Kpa. This may compromise the structural integrity of the PN12 pipe. Proposed Resolution Amend PS4 Clause 4.0 as follows

	Pressure Classification (PN) – New Installations – PN 16 (1600 KPa or 1.6 MPa @ 20o C). Action By MCE
M16.10	**Trial Register** – Not discussed • LSC has proposed the creation of a trial register to track the progress of any ongoing/successful trials. An example of this would be the use of new materials • Discussion on implementation (who will have access to this and how?) • It is suggested that the trial register be created as a separate page in the Action Register Excel file. That way it should be visited regularly not forgotten. Proposed Resolution A new sheet be created in the Action Register for the Trial Register. All LGE's are to provide information on any trials they have underway. Action By MCE
M16.11	**C273 Landscaping – amend hydromulch spec** – Not discussed • The current hydro mulch specification uses seed variety's that are more suited to colder climates. See **Attachment J** for example seed mix used by Dennis Contracting Services Proposed Resolution .For discussion Action By
M15.20	**PS26 Marker Posts** – Not discussed • **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. Proposed Resolution .For discussion Action By
M15.21	**PS28 Gaskets** – Not discussed • **Attachment L** is draft specification provided by GRC. • The previous resolution was *Councils happy to include on website.* *LSC had previously sent a purchase specification to Cardno. Cardno to locate this document.* • Need clarification on the LSC specification to finalise. Proposed Resolution .For discussion Action By

M15.22	**C242 Pavements – Amend references as advised by GRC** – Not discussed

M15.22. C242 Pavements — Cardno

Recommended actions from Brendan at GRC are:

- Add highlighted Australian standards
- Delete reference to Main Roads documents totally (they were all upgraded to AS1289 reference in 2018)

C242.03 REFERENCE DOCUMENTS

C242.03.01 Documents referenced in this Specification are listed in full below whilst being cited in the text in the abbreviated form or code indicated.

(a) **Council Specifications**

C241 - Stabilisation
C244 - Sprayed Bituminous Surfacing

(b) **Australian Standards**

AS 1141 Set: Methods for sampling and testing aggregates
As 1289 Set: Methods of testing soils for engineering purposes
AS 1141.14 - Particle shape, by proportional calliper.
AS 1141.22 - Wet/dry strength variation.
AS 1289.3.1.1 - Determination of the liquid limit of a soil - Four point Casagrande method.
AS 1289.3.3.1 - Calculation of the plasticity index of a soil.
AS 1289.3.6.1 - Determination of the particle size distribution of a soil - Standard method of analysis by sieving.
AS 1289.3.6.3 - Determination of the particle size distribution of a soil - Standard method of fine analysis using a hydrometer.
AS 1289.5.1.1 - Determination of the dry density/moisture content relation of a soil using standard compaction effort.
AS 1289.5.3.1 - Determination of the field density of a soil - Sand replacement method using a sand-cone pouring apparatus.
AS 1289.5.4.1 - Compaction control test - Dry density ratio, moisture variation and moisture ratio.
AS 1289.5.4.2
AS 1289.5.8.1 - Determination of field density and field moisture content of a soil using a nuclear surface moisture - density gauge - Direct transmission mode.
AS 1289.6.1.1 - Determination of the California bearing ratio of a soil - Standard laboratory method for a remoulded specimen.
AS 5101.4

(c)

- Cardno to action the above recommendations from GRC. M13.8

Proposed Resolution

This change to be adopted with current review underway by RRC (Grant)

Action By: MCE

M22.01.08	**CMDG-S-030 Type C Vertical H.C.** – Not discussed

- The previous resolution was.

General acceptance regarding the use of connections directly above main.

Discussion regarding removal of the house drain and Y branch in the Pre Site Development details.

Agreement reached that it should be removed.

Jamie (RRC) to provide markups to drawing CMDG-S-030 for MCE to complete.

- Awaiting mark-ups from RRC with a view to providing an amended drawing for consideration

Suggested Resolution

Nil

Action By

M22.02.07	**CMDG-W-040 and S-090** – Not discussed

- The previous resolution was

CMDG-W-040 Ver G - MCE to check specifications for depths etc to be consistent (especially Type C)

Standard drawing S-090 to also be updated by MCE following feedback from GRC after staff consultation

- Draft drawing with the proposed changes has been circulated and feedback received. No significant changes requested and W-040 being prepared for website load up.
- Also need direction on how S-090 is to be modified

Suggested Resolution

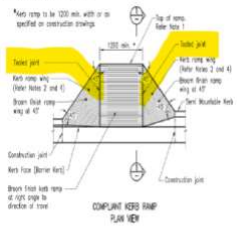
Nil

Action By MCE

M22.02.04

CMDG-R-050 – Not discussed

- Comments from Dev at LSC. We have received recent feedback from TMR emphasising the need for "tooled joints" in the location highlighted. According to TMR, the sharp transitions at these joints serve as wayfinding features for the visually impaired. Although these joints appear as lines on the CMDG standard drawing R-50, there is no specific reference to their inclusion

4-2021	CMDG-R-050 E	Kerb ramp drawings do not specify the provision of a 'tooled joint' at the ramp wing transition. According to TMR, the sharp transitions at these joints serve as way-finding features for the visually impaired.	Update the standard drawings to include the detail as highlighted from TMR SD 1446 (attached) 	Without this detail, some ramps have been constructed with rounded transitions and have come under scrutiny during TMR funded projects. **Comments from Manager ES:** Looks good to me. **Comments from C&M:** We agree with the amendment request to implement a uniform kerb ramp standard. **Comments from Waste:** No comment **Comments from Water/Sewer:** No comments or objections. **Comments from Infra Design:** I have reviewed this amendment with Michael. Happy to update drawing to suit and proceed.

- Tooled joint note has been added and additional minor changes made. Richard mentioned that it would be worth considering the inclusion of information or reference to the TMR standard drawings KGR1 and KGR2.

Previous Resolution 1 April 2022

Revised drawing and TMR drawings KGR1/ KGR2 to be sent to committee for further discussion/ consideration.

- **Attachment M1** is the revised R-050 drawing and **Attachment M2** is the TMR drawings KGR1/ KGR2

Action By MCE

Suggested Resolution

CMDG-R-050 rev F be adopted.

Action By

M22.02.05

D5 – Use of corrugated polypropylene drainage pipes – Not discussed

- LSC is suggesting use of corrugated polypropylene drainage pipes.

6-2021	CMDG-D, CMDG-D5, C221.		Addition of corrugated polypropylene 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 1.1 CMDG-D, CMDG-D5, C221. 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
  - 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**.

Suggested Resolution

Update D5 and C221 to permit polypropylene pipes (SN8) up to 600mm diameter. Revised documents to be sent to committee for review.

Action By MCE

M22.02.06	**CMDG-D-033 Use of Precast Square roofwater pits** – Not discussed • LSC propose use of proprietary precast square roofwater pits. • Note 5 to CMDG-D-033 permits use of precast chambers but Note 6 says covers and frames must be circular **2-2021** | CMDG Request for amendment - Roofwater inspection chambers CMDG-D-0(D) | Roofwater inspection chambers CMDG-D-0(D) | change drawing to include drawing of 600x600 precast pit with galvanised lid. | **Comments from Waste:** Nil input is required. **Comments from Water:** Nil comments as drawing is related to stormwater drainage access chamber not sewerage access chamber. **Comments from Infra Design:** Roofwater inspection chamber drawing to show a square pit detail (600x600 Field Inlet type) as this is the most commonly used on site. **Comments from Infra Planning:** No comment provided **Comments from Infra DET:** No comment provided **Comments from Facilities – Assets / GIS:** No comment provided **Comments from Construction / Maintenance** Hi Ellen, I support the proposal as it will be easier to procure these products. If you have any queries regarding the above, please contact me. Thanks. Darren Hines Rocla pit left – Holcim pit right <u>Suggested Resolution</u> For discussion <u>Action By</u> MCE
M10.5.1	**D6 Site Regrading – consider retaining wall issue** – Not discussed • 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 <u>Suggested Resolution</u> For discussion <u>Action By</u> MCE

M22.03.01

CMDG-G-013 Locking Rail – Not discussed

- The previous resolution was
  Some interest from committee regarding removable bollards/lockrails. Existing lockrail drawing (not part of standard drawings set) to be discussed at next meeting.
- Discussions at the previous meeting centred on a new Lockrail drawing presented by LSC some time ago (along with a suite of Parks drawings). However, there already is a lockrail drawing included in CMDG. Both drawings are at **Attachment O.**
- RRC Parks have advised that they are heading away from the lockable pole insert type given the manual handling associated with it. They are actually replacing these types across the region with the swing gates as shown in the attached picture.

Suggested Resolution

A new CMDG drawing be produced for Swing Gates Lockable Park access

Action By MCE

M22.03.02

CMDG-G-020 Heavy Duty Cattle Grid Drawing Updated

- **Attachment P1** is an updated grid drawing by GRC for consideration. The major changes are the inclusion of a grid long section, signage changes and other minor changes. Changes have been clouded. **Attachment P2** is the same drawing modified by MCE to meet the agreed standards.
- This drawing is currently applicable to GRC, IRC and RRC only.

Resolution

Revised applicability table discussed and accepted.

APPLICABILITY TABLE							
Council	**BSC**	**CHRC**	**GRC**	**IRC**	**LSC**	**MRC**	**RRC**
Applicable	No	No	Yes	Yes	No	No	Yes
Seal required on approach >50AADT and 8.0m grid?			Yes	Yes			No
Seal required on approach >50AADT and 4.0m grid?			No	No			No

CMDG-G-20 Ver E be approved for upload to the website.

Action By

MCE

M22.03.03

D2, C242 & C221 Use of Recycled Glass – Not discussed

- GRC are seeking was to amend CMDG to allow use of Recycled Glass in line with the TMR specs for pavement design – reference to be considered in either (D2 - Pavement Design) or (C242 - Flexible Pavement).
- In addition to pavement, having Recycle Glass as a suitable material for stormwater bedding/trenching material around concrete pipes (C221 Pipe Drainage).
  Proposal:
- In C242 - Recycle glass aggregate may be considered as an alternative to a quarry or natural sand material for unbound pavements when used in accordance with TMR specifications.
- References Materials: MTRS05 Unbound Pavements, MTRS36 Recycle Glass Aggregate.
- In C242 - Recycle glass aggregate may be considered as an alternative to a quarry or natural sand material for bedding material of reinforced concrete and fibre reinforced concrete pipes in accordance with bedding material grading limits.
- There are other alternative recycle materials that may be considered by the group.
- **Attachment Q** is the Current TMR Spec for recycled glass.

Table 7.2.1 – Constituents in Type 2 materials

Subtype	Maximum Limit of each Constituent (percent by mass)				
	Natural gravel or quarried material	Recycled materials			
		Recycled concrete	RAP	Recycled brick	Recycled glass ^
2.1	100	100	0	0	0
2.2	100	100	15	15	0
2.3	100	100	20	20	20
2.4	100	100	20	45	20
2.5	100	100	45	45	20

^ Recycled glass shall comply with the requirements of MRTS36 *Recycled Glass Aggregate*.

- For discussion at this stage – if there is appetite for its use we can investigate what document changes may be necessary to make it happen

Suggested Resolution

For discussion

Action By MCE

M13.10

D11 and D12 -Removal of "Trunk" and "Non-Trunk" wording from scope section. D11.01.01 and D12.01.01 – Not discussed

- The resolution at Meeting 13 was - *After a short discussion it was agreed that the CMDG documentation remain unchanged and relate to Non-Trunk items only. In general, specific design requirements for Trunk infrastructure would be dealt with in the LGIP's.*
- GRC has requested further discussion of the matter.
- Agenda text from meeting 13 follows for further background.
- *The current wording in D11.01.01 is as follows – D12 is similar.*

This Guideline sets out the requirements for the design of the NON-TRUNK infrastructure water supply network to achieve the Desirable Standards of Service in accordance with requirements of the Planning Act, the Water Supply (Safety and Reliability) Act and the Plumbing and Drainage Act. For any TRUNK infrastructure, refer to the Water Service Provider.

10		**CMDG Guidelines D11 and D12 - amendments to suit trunk (LSC - Phil McKone)** The following advice has been received from Phil McKone (for discussion) *The introduction paragraph that states the Guideline is intended for non-trunk works can be changed ONLY if the trunk design parameters are included in the document.* *The trunk design parameters are listed in the LGIP and AICR.* *The risk profile is different and is focused on the bulk transfer of water and no access to individual properties.* *The important water supply differences are:* *. no pressure limitations, both minimum and maximum.* *. no velocity limitations* *. no fluctuation limitations* *For sewerage,* *. the ADWF flow patterns will be significantly different from the reticulation flow patterns due to system attenuation and pumped flow rates. This effects scouring velocities.* *. trunk gravity mains are basically a hydraulic head design, as the grades are so flat compared to the diameter of the pipe* *. branch main connections should be obvert consistent, not invert level based. A high water level in large trunk main may cause a continuous surcharge a small branch lateral* *. trunk sewage pump stations will be more sophisticated and greater equipment.*	

Meeting date: 14 March 2019 Prepared by M Borg & C Hegarty
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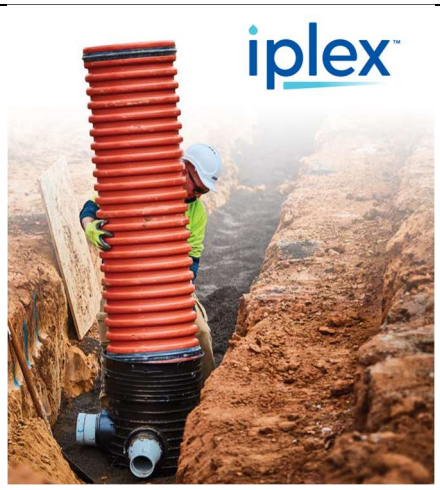
Suggested Resolution

For discussion

Action By

M22.03.05	**CP1.28 Bonding of uncompleted works. Amendments to document** – Not discussed • 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. Suggested Resolution The CP1 Version 4 draft be adopted and loaded up to the website. The bonding deed be provided in MS Word format on the website Action By MCE
M22.04.01	**Review of Reference documents in all Specifications** – Not discussed • 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.

	• 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? Suggested Resolution For discussion Action By
M22.4.02	**D1 – Road Truncations** – Not discussed Previous Resolution was: Mohit to review. MCE to proceed with including the truncations clause into D1. Mohit/ RRC to advise if changes are required. Inclusion of a clause in D1 for truncation of the real property boundary to provide this guidance for development applications and internal design works where new road reserves are being created / land is being purchased or resumed. The wording of this section to be consistent with section 6.3.2 Calliope Shire Council and Gladstone City Council 2005, Roads and Transport Standard 2005 Action By MCE/ RRC Suggested Resolution None at this stage – awaiting approval of D1 document and RRC review.
M22.04.03	**D1 - National Light Pollution Guidelines for wildlife** – Not discussed • This has been actioned and line items included in Draft D1 document under Urban and Rural sections. Suggested Resolution None at this stage – awaiting approval of D1 document Action By
M22.04.04	**D5 – Polypropylene maintenance structures for gravity sewers** – Not discussed • 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 EZIpit has been around for a number of years - with about 15 years of use in Australia and 35 years use in Europe.

	 iplex