CAPRICORN MUNICIPAL DEVELOPMENT GUIDELINES

2022 MEETING 04 Minutes

Venue: Teams Meeting

Date and Time: 29 April 2022 11:00 am

Item		Item		
1	Welcome			
	Attendance: Chris Hegarty (MCE), Richard Bywater (MCE), Grant Vaughan (RRC), Scott McDonald (GRC), Brendan Fuller (GRC), Graham Sweetlove (MRC), Tony Lau (LSC), Mohit Paudyal (RRC)			ald
2	Apologies			
	Jamie McCaul (RRC), Anthony Lipsys (BSC), Daniel Price (BSC), Dev Krishnasamy (LSC), Kym Downey (CHRC), Robin Thekkekara (IRC), Greg Abbotts (LSC), Allan Heit (BSC)			owney
3	True and correct record of minutes from previous meeting			
	Refer attachment A			
	Resolution: 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. Budget advice email sent out by Chris on 14/04/2022. No issues reported.			les
5	Outstanding it	tems from the previous meeting		
	This includes items which were not fully resolved at the previous meeting or items not considered du time constraints.			due to
	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	M15.7	D2 Pavement Design – amend APRG Report 21 as outdated reference and LSC to review design procedure and references	LSC	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	
	M16.10	Trial Register	LSC	
	M16.11	C273 Landscaping – amend hydromulch spec	GRC	
	M15.20	PS26 Marker Posts	GRC	

tem		Item	
	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
		CP1.28 Bonding of uncompleted works. Amendments to	
6	M22.03.05	document.	GRC
6	New Agenda	Items	
6	New Agenda Item number	Items Item	Proponent
6	New Agenda Item number M22.04.01	Items Item Review of Reference documents in all Specifications	Proponent BSC
6	New Agenda	Items Item Review of Reference documents in all Specifications D1 – Road Truncations	Proponent BSC GRC
6	New Agenda	Items Item Review of Reference documents in all Specifications	Proponent BSC
6	New Agenda	Items Item Review of Reference documents in all Specifications D1 – Road Truncations D1 - National Light Pollution Guidelines for wildlife	Proponent BSC GRC
	New Agenda Item number M22.04.01 M22.04.02 M22.04.03 General Bus It was noted t have had som	Items Item Review of Reference documents in all Specifications D1 – Road Truncations D1 - National Light Pollution Guidelines for wildlife iness hat some committee members have left Councils/ positions. Robin the position changes. Chris to touch base with IRC and determine pointed. Tony to send email advice of Greg Abbots becoming the position the position of the posit	Proponent BSC GRC GRC in has left IRC and LSC if a new committee me
	New Agenda Item number M22.04.01 M22.04.02 M22.04.03 General Bus It was noted t have had som has been app	Items Item Review of Reference documents in all Specifications D1 – Road Truncations D1 - National Light Pollution Guidelines for wildlife iness hat some committee members have left Councils/ positions. Robin ne position changes. Chris to touch base with IRC and determine pointed. Tony to send email advice of Greg Abbots becoming the poackup	Proponent BSC GRC GRC in has left IRC and LSC if a new committee me
7	New Agenda Item number M22.04.01 M22.04.02 M22.04.03 General Busi It was noted t have had som has been app Ashman the b Next Meeting	Items Item Review of Reference documents in all Specifications D1 – Road Truncations D1 - National Light Pollution Guidelines for wildlife iness hat some committee members have left Councils/ positions. Robin ne position changes. Chris to touch base with IRC and determine pointed. Tony to send email advice of Greg Abbots becoming the poackup	Proponent BSC GRC GRC in has left IRC and LSC if a new committee me
7	New Agenda Item number M22.04.01 M22.04.02 M22.04.03 General Busi It was noted t have had som has been app Ashman the b Next Meeting	Items Item Review of Reference documents in all Specifications D1 – Road Truncations D1 - National Light Pollution Guidelines for wildlife iness hat some committee members have left Councils/ positions. Robin position changes. Chris to touch base with IRC and determine pointed. Tony to send email advice of Greg Abbots becoming the poackup g d but next meeting date is proposed as 27 th May 2022 at 11am.	Proponent BSC GRC GRC in has left IRC and LSC if a new committee me

Agenda Items Detail

Item No.	Item Details	
M22.01.01	Website Update	
	Preparation of a brief is currently underway.	
	<u>Previous resolution on 1 April 2022 was</u> 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)	
	Resolution	
	Committee to provide comment/ feedback on draft scope. Grant mentioned that some minor changes/ polish is required to the first two sections and will send an email with suggested improvements. Richard to update scope document and send to committee to share with their I.T. departments for technical comment. GRC to pass on to procurement/ legal team for comment.	
	Action By All	
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. 	
	Resolution	
	Nil as no representative from IRC or CHRC were present.	
	Action By	
M15.5	D1 Geometric Road Design – finalise new tables	
	The current status reported at 1 April 2022 meeting was	
	LSC is working on Urban tables	
	GRC has completed changes to urban tables	
	 RRC has changes to both urban and rural tables in progress Urban and rural cross section drawings will need to be added to the standard drawings at the same time as the cross sections are removed from D1 	
	The previous resolution was	
	A two week deadline is to be implemented for the urban table updates for inclusion in the next revision of D1. 4 weeks will be given for the rural tables. RRC and LSC will complete industry consultation for the changes following the 2 week response period ending Friday 14 th April.	
	Type Cross section drawings CMDG-R-010 to 017 to be recreated.	
	Action By All	
	Urban – RRC, GRC, LSC	
	Rural – RRC, GRC	
	MRC are close to having documents ready.	
	Resolution	
	Chris to touch base with new member from IRC to explain requirements for new tables. Chris will also contact BSC, and CHRC to get an update on progress.	
	MCE to update cross section drawings to match tables.	

	Action By
	MCE, RRC, LSC, MRC, IRC, CHRC
M15.18	D1 Geometric Road Design – Solar Lighting
	The previous resolution was:
	Recommended actions from previous meetings were:
	 Amend D01.19 Lighting (Urban) to include GRC Policy items noted as relevant to urban Amend D01.25 Lighting (Rural) to include GRC Policy items noted as relevant to rural Development of a Purchase Specification for Solar Lights.
	Cardno to send out the policy split into "Rural" & "Urban" for review and wordsmithing by all councils. Ideally this will be able to be added to D01.19 & D01.25. It is understood a point of difference may be required for incorporation into the document.
	 Need to discuss the status of this item and any proposed changes to D1. Attachment B1 is GRC's policy for Solar Street Lighting and Attachment B2 is the draft purchasing policy prepared by GRC.
	The Resolution from the 1 April meeting was
	 RRC would like more time to review (particularly in relation to the nature and application o funding agreements) LSC to review in comparison with internal policies GRC to create purchase specification for review by committee
	Action By LSC, RRC, GRC
	Resolution
	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.
	Action By RRC, GRC, LSC
M15.7	Not discussed
	D1 Geometric Road Design – Rural Heavy Industry Access Road
	 Attachment C 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	Not discussed
	D2 Pavement Design – amend APRG Report 21 as outdated reference and LSC to review
	design procedure and references
	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	Not discussed
	D9 Cycleway and Pathway Design revision
	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
	Net discussed
M15.16	Not discussed
	Draft Underbore Detail

Cardno to / • MCE ir advice Suggested Res Nil Action By MCE M16.5 D5 Stormwate • Previou • GRC h • Clause D05.21. SITE E by Council, the Quantity and Q	
 MCE ir advice Suggested Resolution Nil Action By MCE M16.5 D5 Stormwate Previou GRC h Clause D05.21. SITE E by Council, the Quantity and Q 	 Intend to progress this item with a draft drawing based on SEQ – any examples or on content from members would be appreciated. Solution r Design – Template for SWMP Usly an agenda item 16.5 (Meeting did not proceed) ave provided a template Attachment D for consideration and discussion. D05.21 currently reads as follows.
Nil Action By MCE M16.5 D5 Stormwate • Previou • GRC h • Clause D05.21. SITE E by Council, the Quantity and Q	r Design – Template for SWMP usly an agenda item 16.5 (Meeting did not proceed) ave provided a template Attachment D for consideration and discussion. D05.21 currently reads as follows. BASED STORMWATER MANAGEMENT PLAN (SWMP) D05.21.01. Where required
Action By MCE M16.5 D5 Stormwate • Previou • GRC h • Clause D05.21. SITE E by Council, the Quantity and Q O	r Design – Template for SWMP usly an agenda item 16.5 (Meeting did not proceed) ave provided a template Attachment D for consideration and discussion. D05.21 currently reads as follows. BASED STORMWATER MANAGEMENT PLAN (SWMP) D05.21.01. Where required
M16.5 D5 Stormwate • Previou • GRC h • Clause D05.21. SITE E by Council, the Quantity and Q	r Design – Template for SWMP usly an agenda item 16.5 (Meeting did not proceed) ave provided a template Attachment D for consideration and discussion. D05.21 currently reads as follows. BASED STORMWATER MANAGEMENT PLAN (SWMP) D05.21.01. Where required
 Previou GRC h Clause D05.21. SITE E by Council, the Quantity and Q 	usly an agenda item 16.5 (Meeting did not proceed) ave provided a template Attachment D for consideration and discussion. D05.21 currently reads as follows. BASED STORMWATER MANAGEMENT PLAN (SWMP) D05.21.01. Where required
 GRC h Clause D05.21. SITE E by Council, the Quantity and Q 	ave provided a template Attachment D for consideration and discussion. D05.21 currently reads as follows. BASED STORMWATER MANAGEMENT PLAN (SWMP) D05.21.01. Where required
by Council, the Quantity and Q	
	uality aspects of stormwater management.
Resolution That the Storm reference the n	water template be included as Annexure D05A and Clause D05.21 be amended to ew Annexure.
from planning s updated inline the CMDG tem	at RRC have SWMP requirements in their planning scheme. Mohit to send extract scheme to provide comparison with GRC proposal. The proposed SWMP can be with the RRC planning scheme or a table of difference can be added to specify eithe plate or a Council planning scheme.
Action By RRC/MCE	
M16.9 Not discussed	
• PS-4 C	sure Pipe (Poly services to be PN16 not PN 12) CMDG Purchase Specification. Clause 4.0. Pressure Classification (PN) – New ations – PN 12.5 (1250 KPa or 1.25 MPa @ 20o C).
	ure Classification (PN) – nstallations - PN 12.5 (1250 kPa or 1.25 MPa @ 20° C); rs - PN 16 (1600 kPa or 1.6 MPa @ 20° C).
	nt E for current PS-4 Purchase Specification
below	MDG Purchase Specification Clause 5.0 Pressure Classification (PN) – (generally ground use) uPVC Series 2 - PN 12; MPVC Series 2 - PN 16; OPVC Series 2 - PN terial Class 400.
PS-5 Clause 5 f	or 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 @ 200 C). <u>Action By</u> MCE
M16.10	 Not discussed Trial Register 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	Not discussed C273 Landscaping – amend hydromulch spec • The current hydro mulch specification uses seed variety's that are more suited to colder climates. See Attachment F for example seed mix used by Dennis Contracting Services Proposed Resolution .For discussion Action By
M15.20	Not discussed PS26 Marker Posts • Attachment G 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

<i>I</i> 15.21	Not discussed			
	PS28 Gaskets			
	Attachment H 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	Not discussed			
	C242 Pavements – Amend references as advised by GRC	Cardno		
	Recommended actions from Brendan at GRC are:	<u>Cardno</u>		
	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 <u>Methods of testing solis for engineering purposes</u> 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 - <u>Four point</u>			
	Casagrande method. AS 1289.3.3.1 - Calculation of the plasticity index of a soil. AS 1283.3.6.1 - 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 tine analysis using a hydrometer.			
	AS 1289.5.1.1 - Determination of the dry density/moisture content relation of a soil using standard compaction offort.			
	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 romoulded 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			

	CMDG-S-030 Type C Vertical H.C.				
	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	Not discussed				
	CMDG-W-040 and S-090				
	The previous resolution was				
	CMDG-W-040 Ver G - MCE to check specifications for depths etc to be consistent (especially Type				
	Cinde-w-040 ver G - MCE to check specifications for deptins etc to be consistent (especially Type C)				
	Standard drawing S-090 to also be updated by MCE following feedback from GRC after staff consultation				
	MCE are preparing a draft drawing with the proposed changes. These changes will include additional feedback from GRC on other worthwhile changes as a result of their internal				
	review.				
	Suggested Resolution				
	Nil				
	Action By MCE				
M22.02.04					
10122.02.04	Not discussed				
	CMDG-R-050				
	<u>Comments from Dev at LSC</u> . We have received recent feedback from TMR emphasising the need for "tooled joints" in the location highlighted. According to TMR, the sharp				
	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 Keth ramp drawings do not specify the provision of a the detail as highlighted from TMR SD to lead of the detail as highlighted from TMR SD to constructed with rounded transitions and have come under scrutiny during TMR				
	transition. According to TMR, the sharp there licit a subtract licit is the subtract tracks will a subtract licit is the subtract tracks the subtract licit is the subtract licit is the subtract tracks the subtract licit is the subtrac				
	as <u>way-finding</u> features for the visually impaired.				
	by the two is a final sector of two is				
	Comments from Waste: No comment				
	Bun task at any dig to public terms and distant of the Comments from Water/Sewer: Real with 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 KGR consideration.	1/ KGR2 to be sent to c	committee for further discussion/
	 Attachment I1 is the revised R-09 KGR1/ KGR2 	50 drawing and Attach r	ment I2 is the TMR drawings
	Action By MCE		
	Suggested Resolution		
	CMDG-R-050 rev F be adopted.		
	Action By		
M22.02.05	Not discussed		
	D5 – Use of corrugated polypropylene	drainage pipes	
	LSC is suggesting use of corrugation	ed polypropylene drain	age 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 Small 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 I	- RC and RCP pipes bu	220.00
	Current Section D05.18 reads as	follows.	
	D05.18. PIPE MATERIAL		
	D05.18.01. The following pipe materials a installation requirements state		ninimum cover and
		te pipe and culverts to A	S4058; and
	Fibre Reinforced pipes Other pipes will be a	-	adividual Council
	Other pipes will be c approval.	onsidered subject to ir	
	D05.18.02. All joints between pipes shall	be Rubber Ring Joints (RRJ).
	 It is noted that Hydra Storm suppl Manufactured in accordar Available from Diameter N Manufactured from recycl 	nce to AS – NZS 5065 Nominal (DN) 225mm to	o 600mm

	 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. <u>Previous Resolution</u> 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. <u>Action By</u> 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 Q. <u>Suggested Resolution</u> Update D5 and C221 to permit polypropylene pipes (SN8) up to 600mm diameter. Revised documents to be sent to committee for review. <u>Action By</u> MCE
M22.02.06	Not discussed CMDG-D-033 Use of Precast Square roofwater pits • 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 - Redwater inspection chambers change drawing of CMDG-D-0(D) Comments from Waste: NI input is required. CMDG-D-0(D) Comments from Vaste: NI input is required. Comments from Waste: NI input is required. CMDG-D-0(D) Comments from Maste: NI input is required. Comments from Waste: NI input is required. Comments from Units Toom Infra Design: Comments from Maste: NI input is several ochamber drawing to show as quare pit denil (600x600 precast pit with galvanised id. Comments from Infra Design: Roomman to show as quare pit denil (600x600 recast pit with galvanised id. Comments from Infra Design: Comments from Infra Design: Roomman to show as quare pit denil (600x600 rised in left type) as this is the most group on site. Comments from Infra Design: Roomman to show as quare pit denil (600x600 rised in left type) as this is the most group on site. Comments from Infra Description Comment from Infra DET: No comment provided Comment from Infra Description / Maintername Hellon Ison as as it will be easier to prove these products. Comments required reading the above,
	please contad me. Thanks. Darren Hines

	For discussion
	Action By MCE
M10.5.1	Not discussed
	D6 Site Regrading – consider retaining wall issue
	 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 Suggested Resolution For discussion
	Action By MCE

M22.03.01	Not discussed
	CMDG-G-013 Locking Rail
	 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 J. 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

				y Gales Lui	ckable Park a	ccess		
	Action By MCE							
M22.03.02	 2 Not discussed CMDG-G-20 Heavy Duty Cattle Grid Drawing Updated Attachment K1 is an updated grid drawing by GRC for consideration. The major change the inclusion of a grid long section, signage changes and other minor changes. Change been clouded. Attachment K2 is the same drawing modified by MCE to meet the agree standards. This drawing is currently applicable to GRC, IRC and RRC only. Suggested Resolution CMDG-G-20 Ver E be approved for upload to the website. 							
M22.03.03	Not discussed							
	specs for (C242 - F) In addition bedding/tr Proposal: In C242 - sand mate Reference In C242 - sand mate in accorda There are Attachme	seeking was pavement de lexible Paver n to pavemen renching mat Recycle glas erial for unbo es Materials: Recycle glas erial for bedd ance with bed other alterna ent L is the C onstituents in Ty Natural gravel or quarried	to amend CM esign – referer nent). ht, having Rec erial around c s aggregate r und pavemen MTRS05 Unb s aggregate r ing material o dding material ative recycle n current TMR S pe 2 materials Maximum (F Recycled	nce to be co ycle Glass a oncrete pipe nay be cons ts when use ound Paver nay be cons f reinforced grading lim naterials tha pec for recy	nsidered in ei as a suitable r es (C221 Pipe sidered as an ed in accordar ments, MTRS sidered as an concrete and its. it may be con vcled glass.	ither (D2 - Pa material for s e Drainage). alternative to nce with TMF 36 Recycle C alternative to fibre reinford sidered by th	a quarry or natura specifications. Glass Aggregate. a quarry or natura ced concrete pipes	
	2.1	material	concrete 100	0	brick 0	glass ^	-	
	2.1	100	100	15	15	0	1	
	2.2	100	100	20	20	20	1	
	2.4	100	100	20	45	20	1	
	2.5	100	100	45	45	20	1	
	 [^] Recycled glass shall comply with the requirements of MRTS36 <i>Recycled Glass Aggregate</i>. 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 <u>Suggested Resolution</u> For discussion 							
	changes r <u>Suggested Resolu</u>	may be nece	-		for its use we	e can investiç	gate what documer	

M13.10	Not discussed							
	D11 and D12 -Removal of "Trunk" and "Non-Trunk" wording from scope section. D11.01.01 and D12.01.01							
	 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 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 Page 2							
	Suggested Resolution							
	For discussion							
	Action By							
22.03.05	Not discussed							
122.03.03	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 M1 is the CP1 Ver 4 Draft document and Attachment M2 is an example bonding
	deed used by RRC.
	• Attachment M3 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	Not discussed
	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.
	• 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
	 GRC has noticed that CMDG does not address truncations for new road intersections.
	• In a previous GRC manual truncations were mentioned and this change request is to reinstate
	truncations.
	 Attachment N is the GRC internal review document on truncations
	Resolution
	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
M22.04.03	D1 - National Light Pollution Guidelines for wildlife
	The National Light Pollution Guidelines for wildlife is a resource to apply best practice lighting
	design for all outdoor lighting which is intended to reduce sky glow and minimise the effects of
	artificial light on wildlife.

	 Attachment O1 is the National Light Pollution guidelines for wildlife. Attachment O2 is the GRC email providing advice and background to the matter. It is suggested we consider inclusions to D1 as well as the D10 Landscaping Spec (in draft only) as this will affect esplanades as well as foreshore park areas
	Resolution
	Some discussion was had regarding the level of detail that should be included in CMDG. LSC have provision for wildlife guidelines by referencing National Light Pollution Guidelines for wildlife in their lighting policy/ procedure.
	MCE to add a line into D1 to consider the requirements of National Light Pollution Guidelines for wildlife.
	Action By
	MCE
M22.04.04	Not discussed
	D5 – Polypropylene maintenance structures for gravity sewers
	 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 R 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 iplex