#### STANDARD NOTES

- ALL WORKS IN THIS CONTRACT ARE TO BE CONSTRUCTED IN ACCORDANCE WITH THE CURRENT STANDARD DRAWINGS AND SPECIFICATIONS OF THE RELEVANT RESPONSIBLE AUTHORITIES. ANY DISPUTE THAT ARISES AT ANY TIME UNTIL THE RESPONSIBLE AUTHORITIES ACCEPT THE WORKS FOR FUTURE CARE AND MAINTENANCE, THE STANDARD DRAWING AND SPECIFICATION WILL TAKE PRECEDENCE OVER THE CONSTRUCTION PLAN.
- ALL ROADWORKS SIGNAGE IS TO BE IN ACCORDANCE WITH VICROADS WORKSITE TRAFFIC MANAGEMENT CODE OF PRACTICE INCORPORATING AS 1742.3.

#### SITE MANAGEMENT

- 3. ALL WORKS ARE TO BE UNDERTAKEN IN ACCORDANCE WITH THE APPROVED CONSTRUCTION MANAGEMENT PLAN. 4. ALL TREES, SHRUBS ETC ARE TO BE RETAINED UNLESS OTHERWISE INDICATED.
- 5 DURING THE CONSTRUCTION AND MAINTENANCE PERIOD SUIT FENCES ARE TO BE PLACED DOWNSTREAM OF ALL EXPOSED AREAS, AND SILT BARRIERS ARE TO BE PLACED UPSTREAM OF ALL PITS. THE SILT FENCES AND SILT BARRIERS ARE TO BE CHECKED AND MAINTAINED UNTIL THE END OF THE MAINTENANCE PERIOD.
- 6. ALL AREAS OF THE SUBDIVISION EXPOSED OF VEGETATION, INCLUDING NATURESTRIPS, LOTS AND RESERVE ARE TO BE FULLY GRASSED BY HYDROMULCHING, WATERING AND MAINTAINED UNTIL THE END OF THE MAINTENANCE PERIOD

#### GENERAL

7. THE CONTRACTOR SHALL:

- a) GIVE 5 DAYS NOTICE IN WRITING TO COGG SUBDIVISIONS ENGINEER OR REPRESENTATIVE PRIOR TO THE b) NOTIFY COGG SUBDIVISIONS ENGINEER OR REPRESENTATIVE 24 HOURS PRIOR TO WORKING ON ANY
- WEEKEND. DE FULLY AWARE OF ALL SITE CONDITIONS PRIOR TO TENDERING. DE FULLY AWARE OF ALL SITE CONDITIONS PRIOR TO TENDERING. DE RESPONSIBLE FOR LOCATING SERVICES PRIOR TO THE COMMENCEMENT OF WORKS AND SHALL BE RESPONSIBLE FOR ANY DAMAGE TO THE SERVICES.
- SHALL BE RESPONSIBLE FOR ANY DAMAGE TO THE SERVICES. BE RESPONSIBLE FOR THE INSTALLATION OF ALL SERVICES REQUIRED FOR THE PROJECT. ENSURE THAT ALL SERVICES ARE INSTALLED TO THE SPECIFIED OFFSETS AND MEETS MINIMUM COVER REQUIREMENTS. ALL SUPERAFE FIXTURES, PITS, VALVES, FIREPLUGS, ETC. SHALL BE INSTALLED A MINIMUM OF 60m FROM ANY SIDE BOUNDARY IN THE ROAD RESERVE AND SHALL MATCH THE REQUIRED FINISHED SUPFACE LEVEL THIS APPLIES TO ALL SERVICES REQUIRED FOR THE PROJECT IRRESPECTIVE IF THEY ARE INSTALLED BY THE CONTENTION OF OTHER DEVINES. CONTRACTOR OR OTHERWISE. COMPLY WITH THE REQUIREMENTS OF THE MINES ACT 1958 AND RELEVANT REGULATIONS INCLUDING
- LUMPLY WITH THE REQUIREMENTS OF THE THIRS ALL 1930 ARM TREEVANT REQUIREMENTS INCLUDING NOTIFICATION IN WRITING (CLAUSE 385) TO THE CHEF MINNIO INSPECTOR OF THE INTERTION TO COMMENCE EXCAVATION OPERATIONS WHERE ANY TRENET IS 1.5m OR MORE IN DEPT HOLICE TO COGG SUBDIVISIONS ENGINEER OR REPRESENTATIVE PRIOR TO BACKFILLING OF ANY PIPE TRENETS. ANY PAVEMENT OR ANY PIPE TRENETS.
- ANY PIPE IREMUNES OR LAYING OF ANY PAVENIENI OR CONRECTE WORKS SOT THAT THE WORKS CAN BE CHECKED AND APPROVED. COMPLY WITH THE OCCUPATIONAL HEALTH AND SAFETY (CONFINED SPACES) REGULATIONS AND CODE OF PRACTICE FOR CONFINED SPACES. BE RESPONSIBLE FOR THE COMPACTION AND/OR ANY OTHER REQUIRED TESTING OF THE PAVEMENT
- j) MATERIAL BY AN APPROVED GEOTECHNICAL CONSULTANT AS AND WHEN DIRECTED BY COGG SUBDIVISIONS ENGINEER OR REPRESENTATIVE.
- ANY WORKS WITHIN ROADWAYS SHALL SATISFY COUNCIL'S "REQUIREMENTS FOR OCCUPANCY OF ROAD ANT WORKS WITHIN ROADWATS SHALL SATUST LUDUNLE S REQUIRETENTS FOR OLLUPART OF ROAD RESERVE: CONTACT COGE TRAFFIC MANAGEMENT OFFICER ON TELEPHOLE (03) SZZZ364 FOR FURTHER SPECIFIC DETAILS RELATING TO THIS PROJECT. A COPY OF THE TRAFFIC MANAGEMENT PLAN IS TO BE FORWARDED TO THE COGE SUBDIVISIONS ENDIRER OR REPRESENTATIVE PHIOR TO WORKS COMMENING.
- ALL REASONABLE CARE SHALL BE TAKEN BY THE CONTRACTOR TO PRESERVE THE SURVEY PEGS. ANY ALE INFORMATION OF BOUNDARY PEES FOR CONSTRUCTION IS THE RESPONSIBILITY OF THE CONTRACTOR. BENCHMARK VALUES ARE VALUE FOR 6 MONTHS FROM THE ISSUED DATE OF THE SURVEY AND ARE TO BE CHECKED PRIOR TO COMMENCEMENT OF WORKS AND ANY DISCREPANCES ARE TO BE REPORTED IMMEDIATELY.
- 10. ALL DIMENSIONS ARE IN METRES AND LEVELS ARE TO AUSTRALIAN HEIGHT DATUM (A.H.D.)
- ALL SEWER MANHOLES LOCATED UNDER NEW FOOTPATH TO HAVE OFFSET COVER ROTATED AND LEVELS ADJUSTED SO THAT THE COVERS ARE ENTIFICLY LOCATED WITHIN THE FOOTPATH WITH APPROPRIATELY POSITIONED JOINTS IN PATH AND FLUSH WITH SURFACE.

#### ROADWORKS

- 12. SUBSOIL DRAINS ARE TO BE CONSTRUCTED BEHIND THE KERB AND CHANNEL OR AS DIRECTED BY THE COGG SUBDIVISIONS ENGINEER OR REPRESENTATIVE AND ARE TO BE IN ACCORDANCE WITH THE IDM.
- WHERE DRAINAGE LINES EXIST BEHIND THE KERB AND CHANNEL SUBSOIL DRAINAGE IS NOT REQUIRED HOWEVER A 1m LENGTH OF SUBSOIL DRAIN INCLUDING FILTER SOCK IS REQUIRED BOTH SIDES OF DRAINAGE PITS.
- 14. ALL FOOTPATHS ARE TO BE A MINIMUM OF 125mm THICK WITH SL72 REINFORCEMENT AND BEDDED ON A MINIMUM OF 100mm COMPACTED CLASS 3 FCR WITH THE BEDDING TO EXTEND 75mm BEYOND THE EDGES OF THE PROPOSED FOOTPATH PRIOR TO THE PLACEMENT OF THE TIMBERS AND BOARDS. CONTRACTION OR EXPANSION JOINTS ARE TO BE CONSTRUCTED BETWEEN 10 TO 15 METER INTERVALS
- 15. WHERE FILLING IS REQUIRED UNDER THE FOOTPATH BEDDING MATERIAL THEN CLASS 4 FCR IS TO BE USED UNLESS OTHERWISE APPROVED BY THE COGG SUBDIVISIONS ENGINEER.
- 16. CONCRETE FOR KERB AND CHANNEL USED IN EXTRUSION MACHINES SHALL HAVE A MINIMUM CEMENT CONTENT OF 320 KG/M3
- CONCRETE FOR STORMWATER PITS AND ANY OTHER STORMWATER RELATED STRUCTURE IS TO HAVE A MINIMUM STRENGTH OF 32 MPA AT 28 DAYS.
- 18. CONCRETE FOR ALL OTHER APPLICATIONS IS TO HAVE A MINIMUM STRENGTH OF 25 MPA AT 28 DAYS.
- 19. TO ALLOW FOR A CONTINUOUS CONCRETE KERB AND CHANNEL POUR THE STORMWATER PIT CONCRETE SURROUND IS TO BE IN PLACE PRIOR TO THE POUR COMMENCING. IF THE PIT SURROUNDS ARE NOT IN PLACE THEN THE INITIAL KERB AND CHANNEL POUR IS TO STOP ONE METRE EITHER SIDE OF EVERY PIT.
- 20. PRIOR TO ANY FILLING ON LOTS ALL TOPSOIL IS TO BE REMOVED AND STOCKPILED. THE FILL MUST BE APPROVED AND CONSOLIDATED IN '55mm COMPACTED LAYERS TO A DRY DENSITY OF 95% STANDARD COMPACTION IN ACCORDANCE WITH AS1289. THE TOPSOIL IS THEN TO BE UNIFORMLY REPLACED TO A COMPACTED DEPTH OF 100mm. COMPACTION TESTING WILL BE REQUIRED AT THE DISCRETION OF THE COGG SUBDIVISIONS ENGINEER OR REPRESENTATIVE.
- 21. ALLOTMENTS SHALL BE GRADED TO AN EVEN SURFACE AT THE COMPLETION OF ALL WORKS AND SHALL HAVE A MINIMUM GRADE OF 1 IN 200 (IDM) TO THEIR NOMINATED DRAINAGE CONNECTION POINTS. ALL SURPLUS SPOIL BOXTHORN, FENCING, CONSTRUCTION WASTE AND OTHER RUBBISH SHALL BE REMOVED FROM SITE AT THE COMPLETION OF WORKS.
- 22. BATTER SLOPES ON LOTS SHALL BE A MAXIMUM OF 1 IN 6 FOR FILL AND 1 IN 3 FOR CUT UNLESS OTHERWISE
- 23. TIMBER RAIL AND POST (0.6m HIGH) OR AS APPROVED BY COUNCIL PARKS/RECREATION AND OPEN SPACE/ENVIRONMENT DEPARTMENTS ARE TO BE PLACED ACROSS THE RESERVE FRONTAGE, REFER TO COUNCIL STANDARD DRAWING COGG 709. A DEMOUNTABLE SECTION FOR VEHICLE ACCESS TO COUNCIL STANDARD REFER STANDARD DRAWING COGG702 & COGG703.
- 24. STREET SIGNS ARE TO BE LOCATED AS INDICATED ON THE PLANS AND INSTALLED IN ACCORDANCE WITH VICROADS TRAFFIC ENGINEERING MANUAL VOLUME 2. MOUNTING HEIGHT IS TO BE TO THE UNDERSIDE OF THE SIGN AND IS TO BE A MINIMUM OF 2.1m AND MAXIMUM OF 3.0m.
- 25. 'NO THROUGH ROAD' SIGN IS TO BE INSTALLED BELOW THE STREET SIGN WHERE APPLICABLE.
- 26. ALL REINFORCEMENT USED IN CONCRETE WORKS FOR FOOTPATH DRIVEWAYS AND ROADS IS TO BE ADEQUATELY SUPPORTED BY APPROPRIATE SIZED BAR CHAIRS PRIOR TO THE POURING/PLACEMENT OF CONCRETE.
- 27. AT THE TERMINATION OF STAGED PAVEMENT CONSTRUCTION, A CONCRETE EDGE STRIP 200mm X 200mm AND SUBSOIL DRAIN IS TO BE INSTALLED ACROSS THE WIDTH OF THE PAVEMENT AND A CHEVRON MARKER SIGN IS TO BE INSTALLED ACROSS THE FULL WIDTH OF THE ROAD RESERVE. APPROPRIATE RETAINING WALLS/FENCING IS TO BE PROVIDED AS DIRECTED BY COGG SUBDIVISIONS ENGINEER OR REPRESENT ATIVE.
- 28. WHERE LINE MARKING NEEDS TO BE REMOVED, THESE LINES ARE TO BE PERMANENTLY REMOVED EITHER BY GRINDING THE OLD LINES OFF OR BY PLACING A SEAL AND GRIT TREATMENT (USING THE "FLOCON" SYSTEM UVER THE UNWANTED LINES.
- 29. LOT NUMBERS SHALL BE STENCILED IN 50mm HIGH FIGURES WITH WHITE PAINT ON THE FACE OF THE KERB AND
- CIVIL CONTRACTOR TO CONTACT SUPERINTENDENT MINIMUM OF 7 DAYS PRIOR TO POURING ANY KERB & CHANNEL TO ENSURE THAT DRIVEWAY LOCATIONS HAVE NOT ALTERED.

- - 1. PIPE DRAINAGE WITHIN ROADWAYS TO BE REINFORCED CONCRETE PIPES CLASS 2 UNLESS OTHERWISE SHOWN
- 2. ALL REINFORCED CONCRETE PIPES ARE TO BE RUBBER RING JOINTED.
- 3. PIPES IN EASEMENTS ARE TO BE RUBBER RING JOINTED OR UPVC SEWER CLASS PIPES WITH SOLVENT CEMENT
- ALL DRAINAGE PITS IN COUNCIL ROAD RESERVES, DRAINAGE RESERVES AND RECREATION RESERVES ARE TO HAVE LIDS THAT ARE AT LEAST CLASS D (HEAVY DUTY) IN ACCORDANCE WITH AUSTRALIAN STANDARD AS
- ALL PITS ARE TO BE SET OUT FROM SURVEY CO-ORDINATES USING SET OUT POINTS DETAILED IN THE COGG STANDARD DRAWINGS OR AS SPECIFIED IN THIS DRAWING SET. 6. ALL PIPES UNDER FOOTPATHS, DRIVEWAYS AND BEHIND BACK OF KERB SHALL BE BACKFILLED WITH 20mm NOM
- SIZE CLASS 3 FINE CRUSHED ROCK (WETMIX) COMPACTED TO 95% MODIFIED COMPACTION IN 150mm MAXIMUM LAYERS.
- CONTRACTOR TO USE 2% CEMENT STABILISED SAND FROM THE BOTTOM OF THE STORMWATER PIPE TO THE SPRINGLINE WHEN DRAINAGE IS CONSTRUCTED UNDER THE ROAD. CLASS 3 CRUSHED ROCK TO BE USED FOR BACKFILL FROM THE SPRINGLINE TO THE PAVEMENT SUB-BASE.
- 8. PIPEWORK AT ALL PITS TO BE WELL ALIGNED TO ENSURE FLOW IS GUIDED DIRECTLY TO OUTLET PIPE.
- ALL PIPELINES ARE TO BE INSPECTED VIA CCTV AT PRACTICAL COMPLETION AT THE CONTRACTOR'S EXPENSE AND UNDER THE SUPERVISION OF COGG SUBDIVISIONS ENGINEER OR REPRESENTATIVE.
- 10. PROPERTY INLET PITS TO BE LOCATED 1M FROM THE LOW CORNER UNLESS OTHERWISE SHOWN.
- HOUSE DRAINS ARE TO BE 100mm DIAMETER SEWER (LASS PVC SOCKETED PIPES LOCATED 65m FROM THE LOW CORNER OF THE LOT UNLESS OTHERWISE SHOWN. OPTION "No. 4" IS TO CONNECT TO A PIT, "No.2" IS TO CONNECT TO THE UNDERGROUND DRAINAGE PIPE AND "No.3" IS TO KERB (MINIMUM 1.0m AWAY FROM EDGE OF VEHICLE LAYBACK).
- 12. HOUSE DRAINS ARE TO BE A MINIMUM OF 0.5m BELOW FINISHED SURFACE AT THE LOT BOUNDARY UNLESS
- 13. FASEMENT DRAIN CONNECTION TO BE A MINIMUM OF 0.5m BELOW FINISHED SURFACE UNLESS OTHERWISE SHOWN
- WHEN USING 150mm DIAMETER UPVC SEWER CLASS PIPES IN EASEMENTS FOR PRIVATELY OWNED PROPERTIES, THE HOUSE DRAINS ARE TO BE CONNECTED USING STANDARD T-PIECE FITTINGS.
- 15. WHEN USING 225mm DIAMETER OR LARGER UPVC PIPES, HOUSE DRAINS ARE TO BE CONNECTED IN A SIMILAR WAY TO CONCRETE PIPES SUBJECT TO THE INLET BEING CORE DRILLED.
- 16. WATER AND GAS SERVICE CONDUITS SHALL BE LOCATED CLEAR OF ALL DRIVEWAY CROSSINGS AND SHALL EXTEND FROM THE POINT OF SUPPLY TO AT LEAST 500mm INSIDE THE HOUSE LOT TO BE SERVICED AND LEFT EXPOSED UNTIL INSPECTED BY COGG SUBDIVISIONS ENGINEER. WATER CONDUITS ARE TO BE LOCATED AT LEAST 650m FROM SIDE BOUNDARY GAS CONDUITS ARE TO BE LOCATED AT LEAST 650m FROM SIDE BOUNDARY GAS CONDUITS ARE TO BE LOCATED AT LEAST 650m FROM SIDE BOUNDARY OF LOT TO BE SERVICED.
- CONDUIT TRENCHES ARE TO BE BACKFILLED WITH CLASS 3 FCR. NEXT TO WATER CONDUIT IS PREFERRED
- THE LOCATION OF HOUSE DRAINS (H) AND SERVICE CONDUITS (W, G, T, AND E) ARE TO BE NEATLY ETCHED ON THE KERB FACE WITH 50mm HIGH LETTERS.
- 18. IN ROAD RESERVE EXISTING OPEN DRAINS ARE TO BE CLEANED OUT TO AN APPROVED BASE AND ANY SPOIL IS TO BE REMOVED FROM THE SITE. STRUCTURAL FILL (CLASS 4 MINIMUM) IS TO BE PLACED IN NOT MORE THAN 150mm LAYERS AND COMPACTED TO A MINIMUM OF 98% STANDARD COMPACTION COMPACTION TESTS ARE TO BE REVOLED TO THE SATISFACTION OF COGG SUBDIVISIONS ENGINEER OR REPRESENTATIVE.
- 19. ALL SUMPS IN PRE-CAST CONCRETE PITS ARE TO BE INFILLED WITH CONCRETE FLUSH TO THE INVERT LEVEL OF THE OUTLET PIPE, UNLESS APPROVED OTHERWISE BY THE COUNCIL WORKS INSPECTOR.
- ALL DRAINAGE PIT LIDS ARE TO BE FIBRE REINFORCED PLASTIC (FRP) OR APPROVED EQUIVALENT TO THE REQUIRED CLASS LOADING, ALL DRAINAGE PITS WITHIN THE PAVEMENT ARE TO BE CLASS D GATIC.
- 21. BEDDING, LAYING, JOINTING, AND BACKFILLING OF ALL STORMPRO PIPES TO COMPLETED IN ACCORDANCE WITH AS/N7S 2566 2



### LOCALITY PLAN

MELWAYS REF:431 G9 N.T.S



<b>Car</b> TGM

## PHALARIS PARK PTY I TD

# PHALARIS PARK

## STAGE 11 MATTHEWS ROAD, Vic 3221.

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00	0 FOR APPROVAL	28-02-2020		FOR CONSTRUCTION	22-06-202	G.R. N.T.	DRAWN:	G.ROACHE	SEALE: N.T.S	Cardno		PHALARIS PARK ESTATE
01	1 FOR APPROVAL	31-03-2020					SURVEY:	CARDNO TGM GEELONG	SHEET SIZE: A1		Phalaris	STAGE 11
							CHECKED:	æ-	APPROVED: MAR The	<b>TGM</b> ABN 11 125 568 461	Park.	MATTHEWS ROAD
							POS NO:	PS834027D VERSION: V1	PERMIT NO: 1123/2004/A	Level 1, 27-31 Myers Street (PO Box 1137) Geelong, VIC Australia 3220 Phone +61 3 5202 4600 Fax +61 3 5202 4691 Email: victoria@cardno.com.au Web: www.cardno.com		LOVELY BANKS, VIC, 3221
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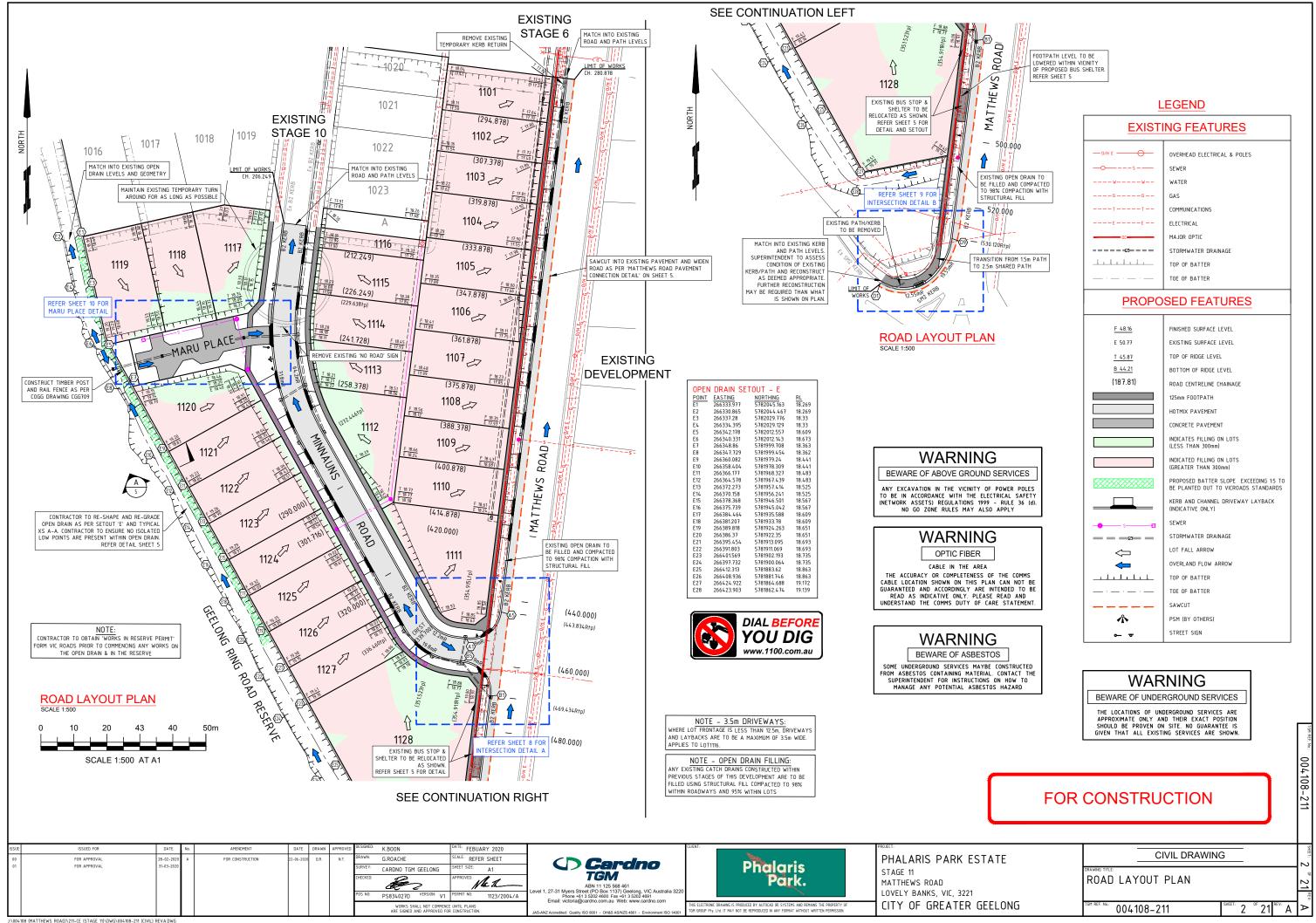
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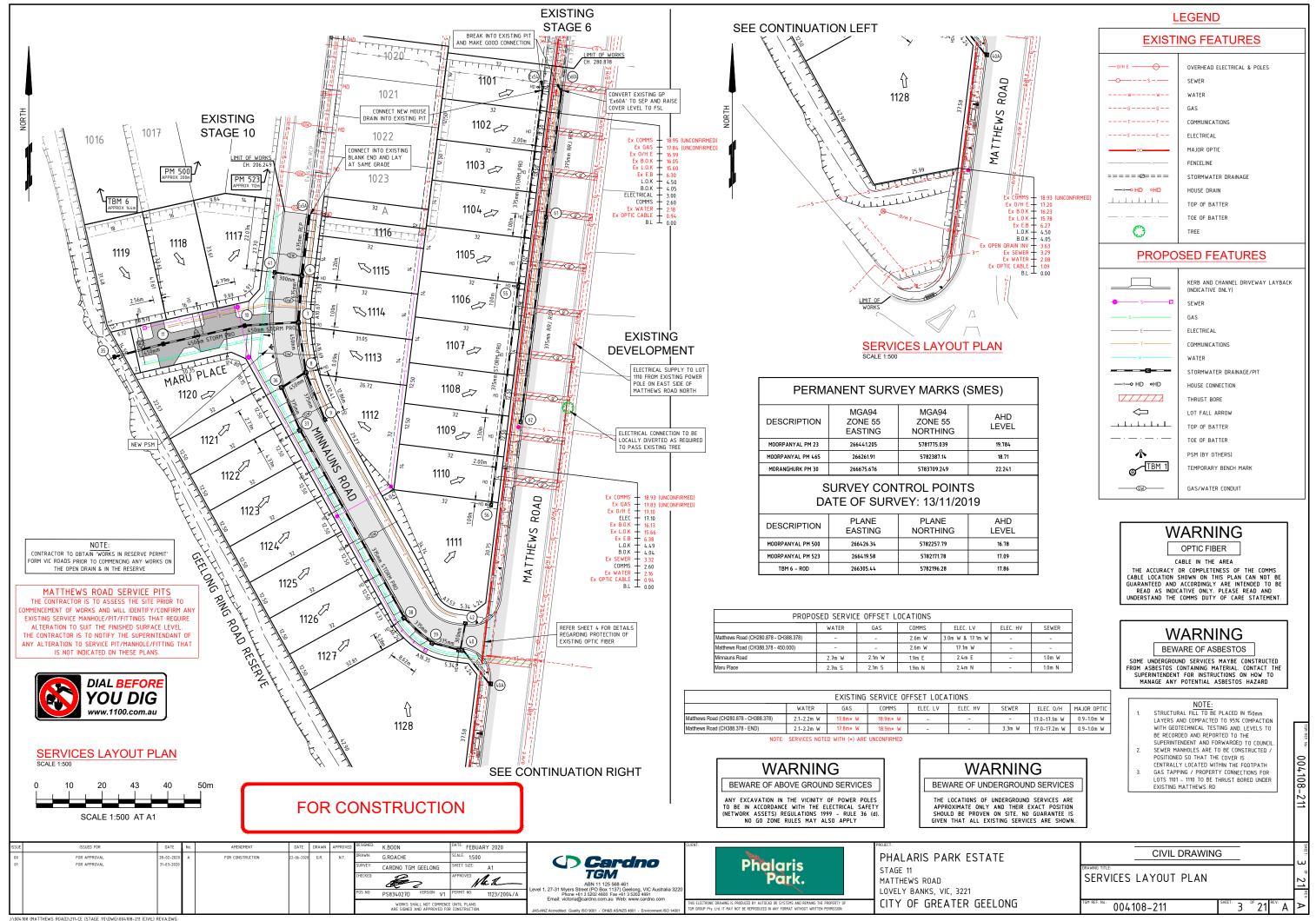
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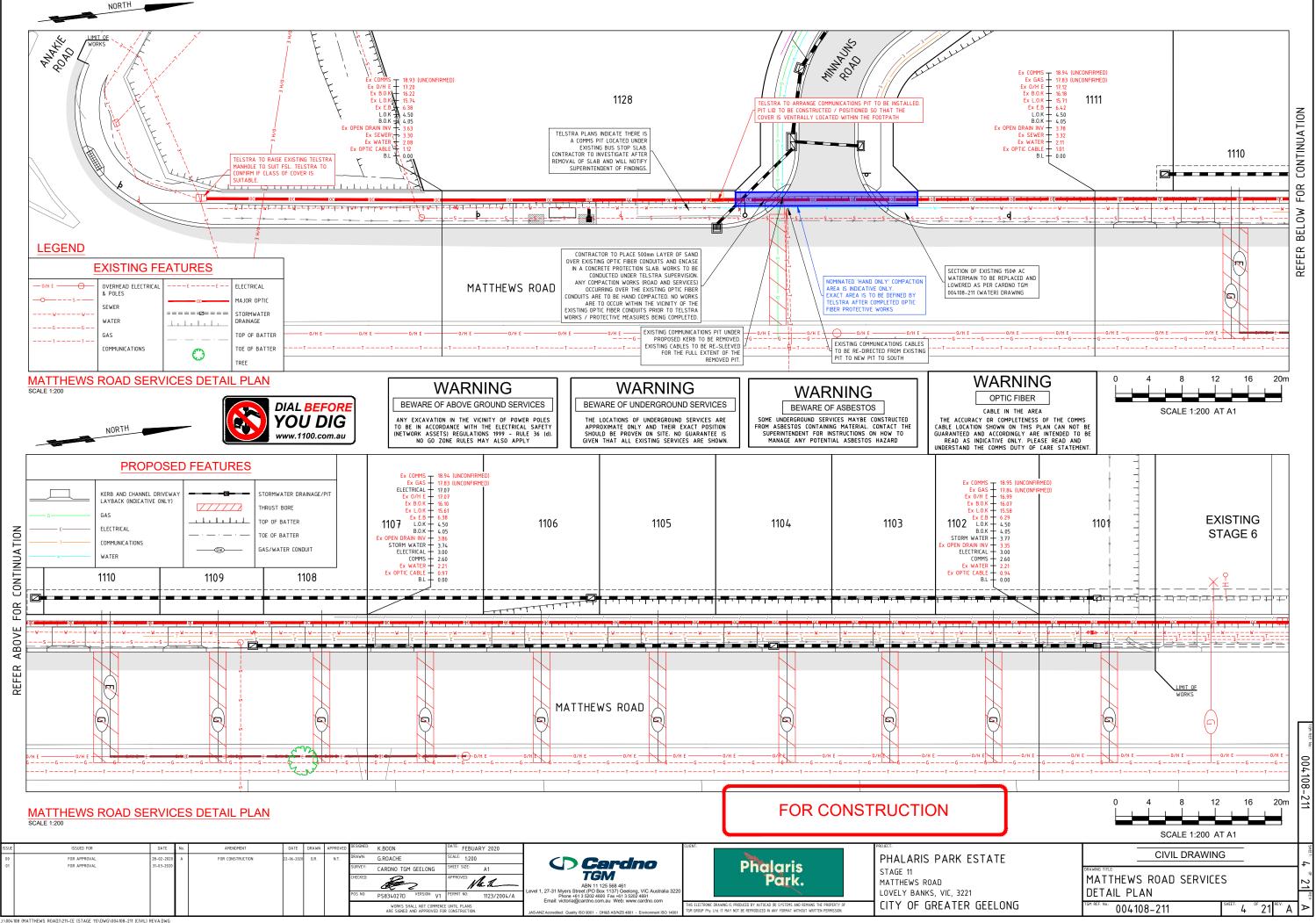
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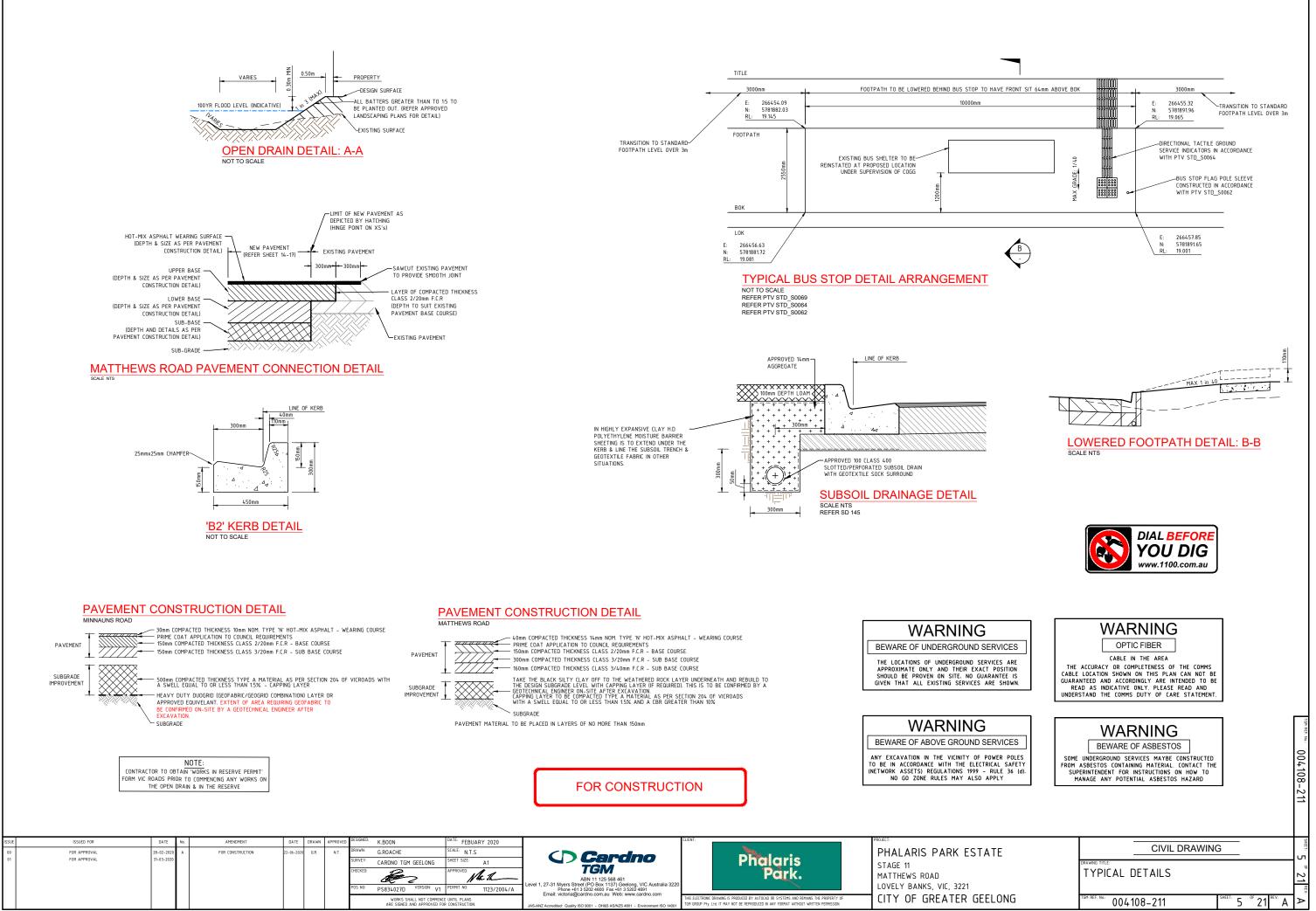
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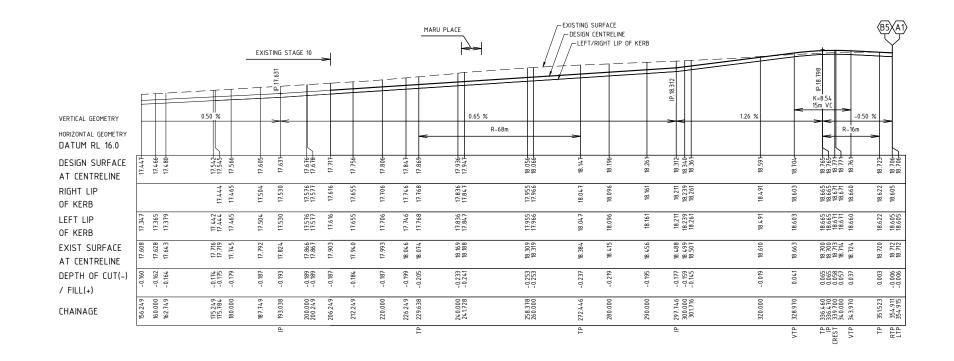
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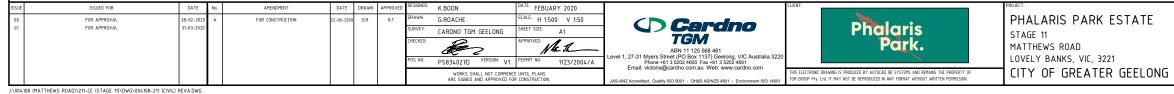








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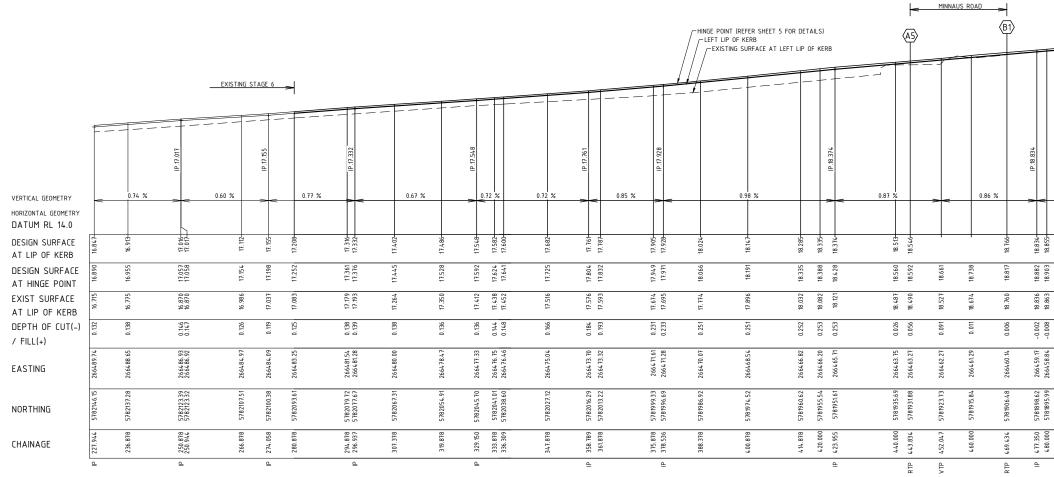


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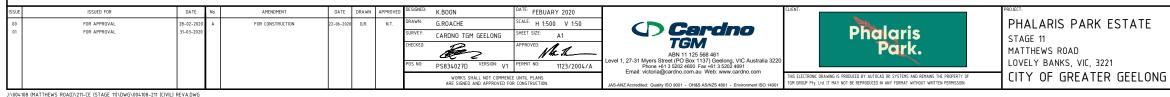
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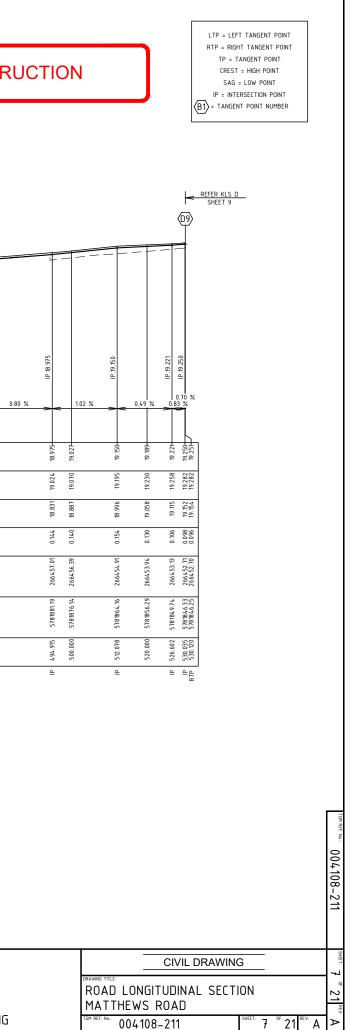
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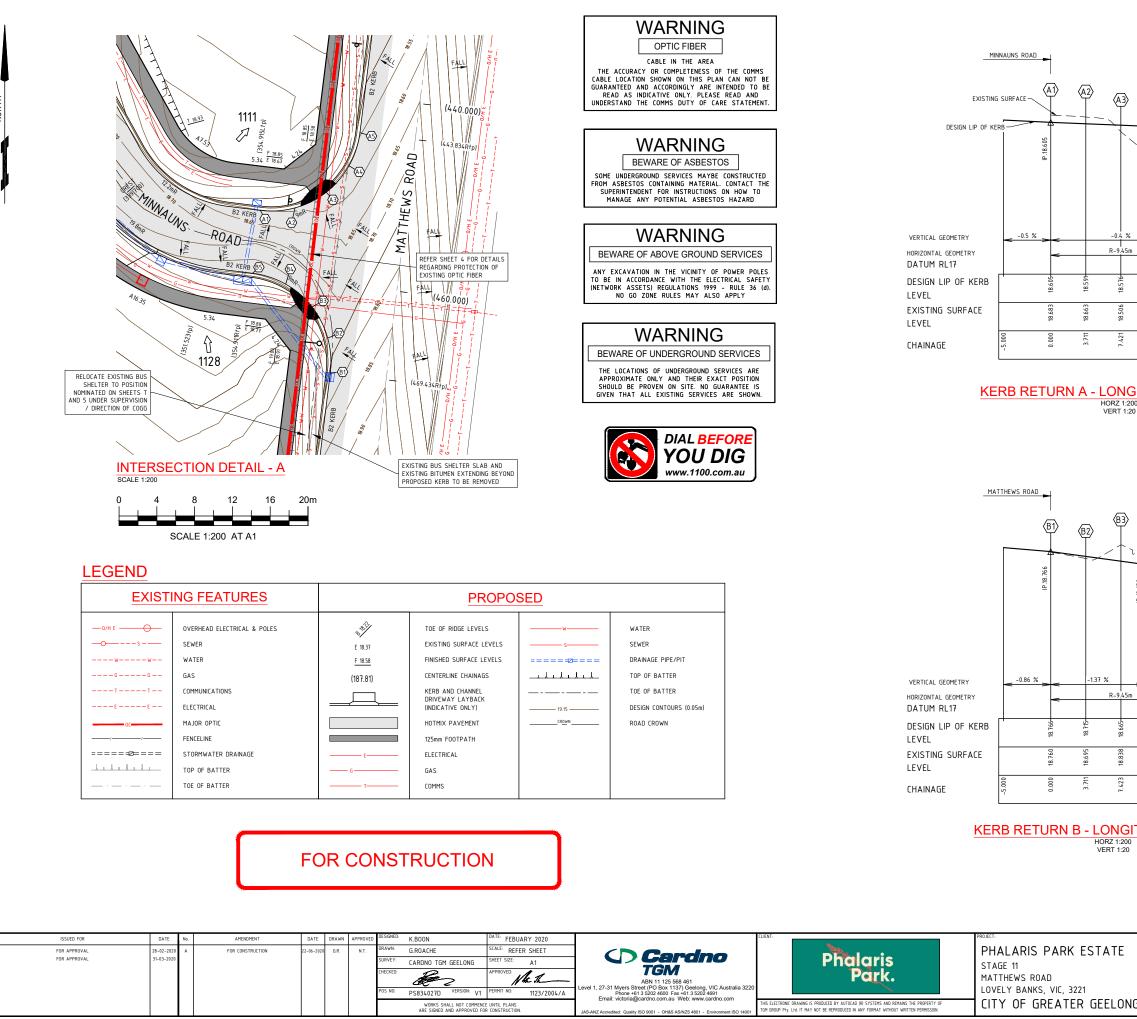
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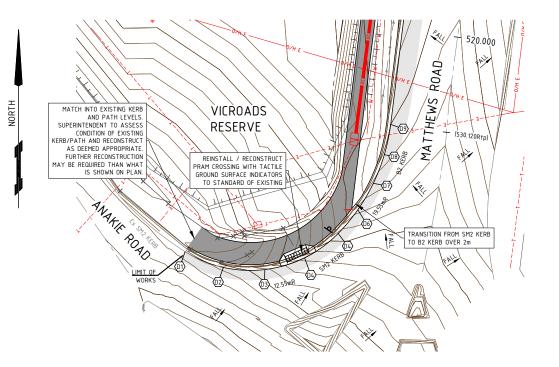
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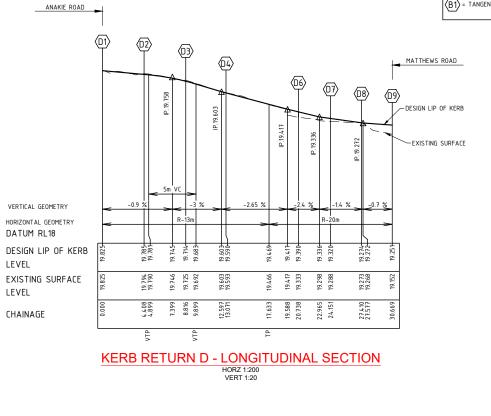
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### LEGEND

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EXIST	ING FEATURES	PROPOSED					
	OVERHEAD ELECTRICAL & POLES SEWER WATER GAS COMMUNICATIONS ELECTRICAL MAJOR OPTIC ROAD CENTERLINE TOP OF BATTER		CENTERLINE CHAINAGS KERB AND CHANNEL DRIVEWAY LAYBACK (INDICATIVE ONLY) HOTMIX PAVEMENT 125mm FOOTPATH TOP OF BATTER TOE OF BATTER DESIGN CONTOURS (0.05m)				

DIAL BEFORE YOU DIG www.1100.com.au

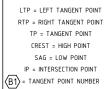


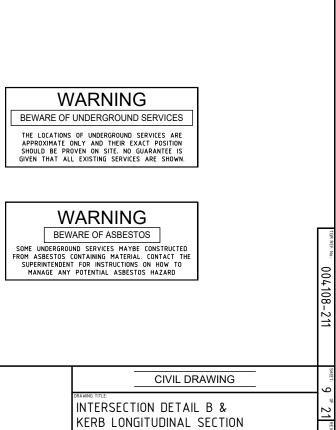
WARNING
BEWARE OF ABOVE GROUND SERVICES
ANY EXCAVATION IN THE VICINITY OF POWER POLES TO BE IN ACCORDANCE WITH THE ELECTRICAL SAFETY (NETWORK ASSETS) REGULATIONS 1999 - RULE 36 (d). NO GO ZONE RULES MAY ALSO APPLY



FOR CONSTRUCTION

ISSUE	ISSUED FOR	DATE	No	AMENDMENT	DATE	DRAWN	APPROVE	DESIGNED:	K.BOON	DATE: FEBUARY 2020		CLIENT:	PROJECT:
00	FOR APPROVAL	28-02-202		FOR CONSTRUCTION	22-06-202	0 G.R.	N.T.	DRAWN:	G.ROACHE	SCALE: REFER SHEET	Cardno		PHALARIS PARK ESTATE
01	FOR APPROVAL	31-03-2020	D					SURVEY:	CARDNO TGM GEELONG	SHEET SIZE: A1		Phalaris	STAGE 11
								CHECKED:	R	APPROVED:	TGM	Park.	MATTHEWS ROAD
								DOC NO.	DS83/.027D VERSION: V1	NM N	ABN 11 125 568 461 Level 1, 27-31 Myers Street (PO Box 1137) Geelong, VIC Australia 3220		LOVELY BANKS, VIC, 3221
								POS NO:	PS834027D VERSION: V1	PERMIT NO: 1123/2004/A	Phone +61 3 5202 4600 Fax +61 3 5202 4691 Email: victoria@cardno.com.au Web: www.cardno.com		
									WORKS SHALL NOT COMMENC ARE SIGNED AND APPROVED FO		JAS-ANZ Accredited: Quality ISO 9001 - OH&S AS/NZS 4801 - Environment ISO 14001	THIS ELECTRONIC DRAWING IS PRODUCED BY AUTOCAD (R) SYSTEMS AND REMAINS THE PROPERTY OF TGM GROUP Pty. Ltd. IT MAY NOT BE REPRODUCED IN ANY FORMAT WITHOUT WRITTEN PERMISSION.	CITY OF GREATER GEELONG
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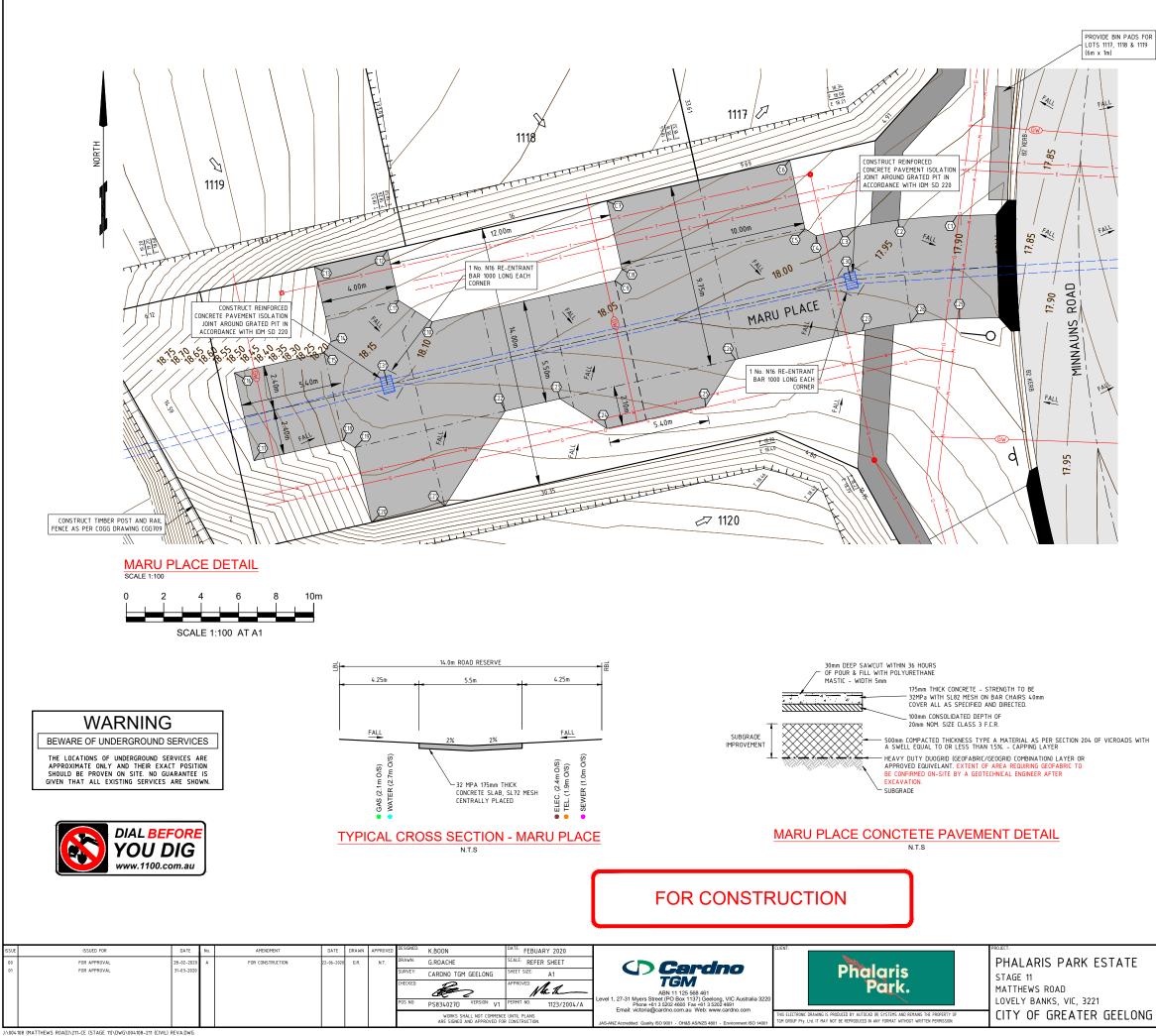


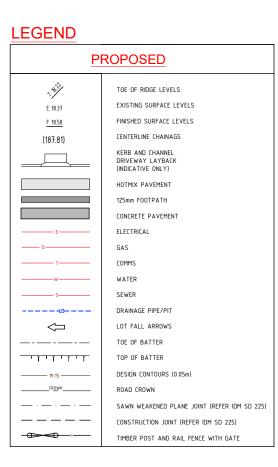
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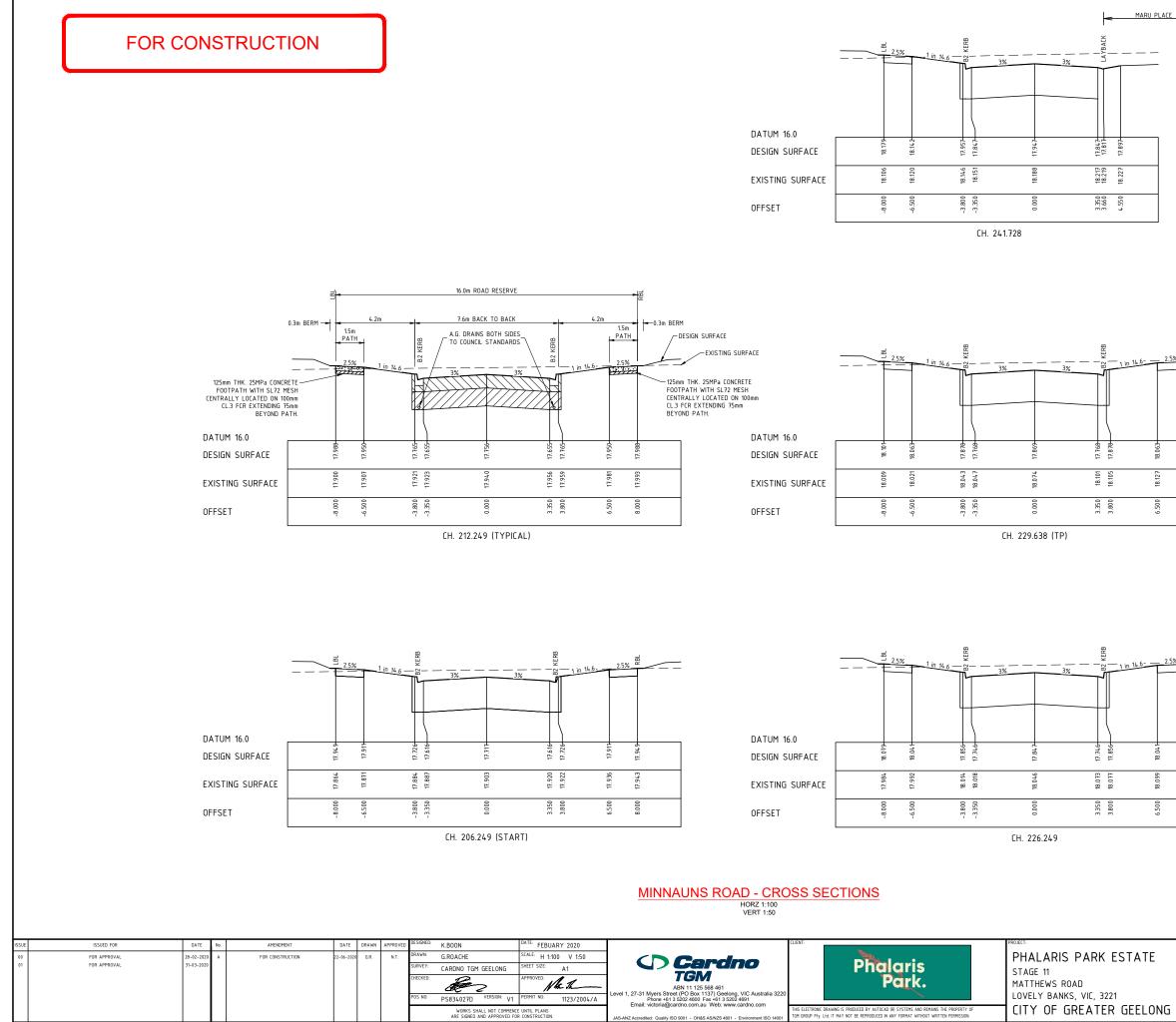




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C6	266381.903	5782021.463	18.126
C7	266372.145	5782019.275	18.199
C8	266372.966	5782015.616	18.098
C9	266372.587	5782015.018	18.079
C10	266362.83	5782012.83	18.106
C11	266361.038	5782013.966	18.176
C12	266360.436	5782016.649	18.268
C13	266356.533	5782015.774	18.27
C14	266357.43	5782011.773	18.17
C 15	266357.052	5782011.176	18.186
C 16	266352.27	5782010.104	18.492
C17	266353.321	5782005.42	18.562
C18	266358.102	5782006.492	18.199
C19	266358.699	5782006.114	18.18
C20	266359.596	5782002.113	18.251
C21	266363.501	5782002.991	18.254
C22	266366.717	5782008.065	18.138
C23	266369.644	5782008.722	18.112
C24	266372.152	5782007.132	18.142
C25	266377.422	5782008.314	18.088
C26	266379.011	5782010.822	18.031
C27	266385.787	5782012.342	17.994
C28	266388.368	5782012.791	17.968
C29	266390.981	5782012.991	17.941
C30	266385.185	5782015.025	17.936
C31	266360.442	5782009.476	18.103



А



J:\004108 (MATTHEWS R0AD)\211-CE (STAGE 11)\DWG\004108-211 (CIVIL) REVA.DWG

JAS-ANZ Accredited: Quality ISO 9001 - OH&S AS/NZS 4801 - Environment ISO 140

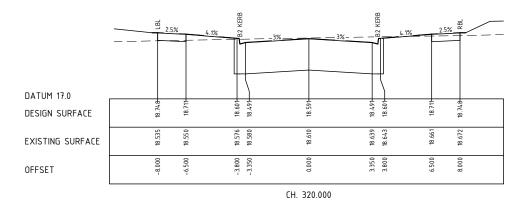
18.10		
18.139		
8.000		
<u>. 25% </u>		
18.079		
18:11		
8:000		TGM REF. No.
		TOM REF. No.: 004108-211
	CIVIL DRAWING	SHEET: 11 OF 21
	RAAMING TITLE: ROAD CROSS SECTIONS	1 ° 21
NG	MINNAUNS ROAD TOM REF. No.: 004108-211 SHEET: 11 OF 21 REV. A	REV: A

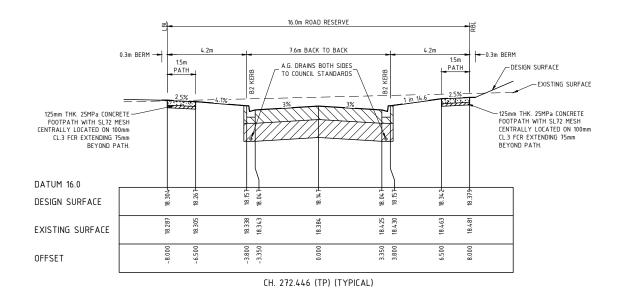
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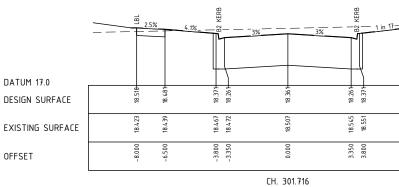
TP = TANGENT POINT CREST = HIGH POINT

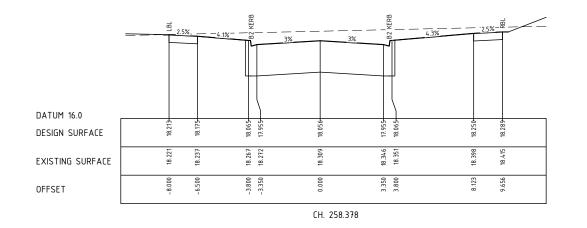
SAG = LOW POINT

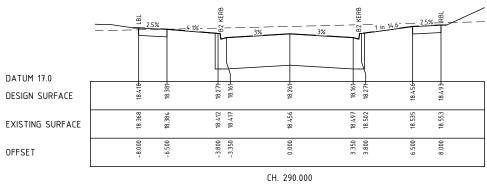
 $\frac{\text{IP = INTERSECTION POINT}}{\text{B1}} = \text{TANGENT POINT NUMBER}$ 











### **MINNAUNS ROAD - CROSS SECTIONS**



IS	SSUE	ISSUED FOR	DATE	No.	AMENDMENT	DATE	DRAWN	APPROVED	DESIGNED	K.BOON	DATE: FEBUARY 2020		CLIENT:	PROJECT:
Г	00	FOR APPROVAL	28-02-2020		FOR CONSTRUCTION	22-06-202	0 G.R.	N.T.	DRAWN:	G.ROACHE	<sup>SCALE:</sup> H 1:100 V 1:50	<b>Cardno</b>		PHALARIS PARK ESTATE
	01	FOR APPROVAL	31-03-2020						SURVEY:	CARDNO TGM GEELONG	SHEET SIZE: A1		Phalaris	STAGE 11
									CHECKED:	de 2	APPROVED:	<b>TGM</b> ABN 11 125 568 461	Park.	MATTHEWS ROAD
									POS NO:	PS834027D VERSION: V1	PERMIT NO: 1123/2004/A	Level 1, 27-31 Myers Street (PO Box 1137) Geelong, VIC Australia 3220 Phone +61 3 5202 4600 Fax +61 3 5202 4691		LOVELY BANKS, VIC, 3221
										WORKS SHALL NOT COMMENCE ARE SIGNED AND APPROVED FO		Email: victoria@cardno.com.au Web: www.cardno.com JAS-ANZ Accredited: Quality ISO 9001 - OH&S AS/NZS 4801 - Environment ISO 14001	THIS ELECTRONC DRAWING IS PRODUCED BY AUTOCAD (R) SYSTEMS AND REMAINS THE PROPERTY OF TGM GROUP Pty. Ltd. IT MAY NOT BE REPRODUCED IN ANY FORMAT WITHOUT WRITTEN PERMISSION.	CITY OF GREATER GEELONG
J:V	\004108 (M	1ATTHEWS ROAD)\211-CE (STAGE 11)\DWG\004108-211 (C	CIVIL) REVA.DWG											

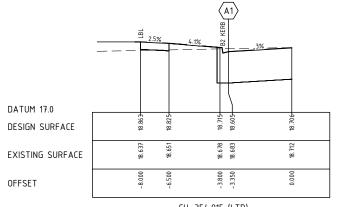
### FOR CONSTRUCTION

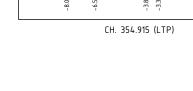


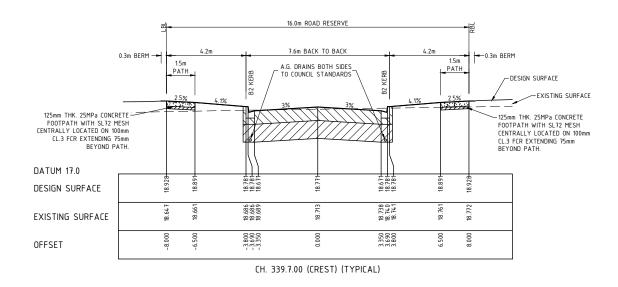


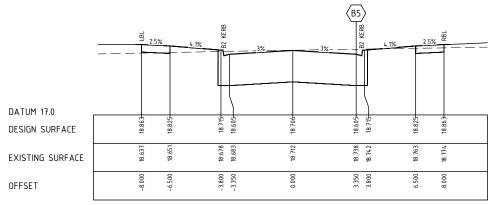
	TGM REF. No: 004108-211
CIVIL DRAWING	SHEET: 12
ROAD CROSS SECTIONS	2 <sup>of</sup> 21 REV:
TGM DEF No.	⊳



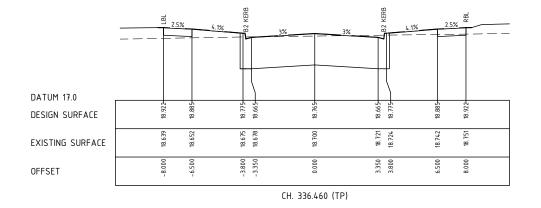


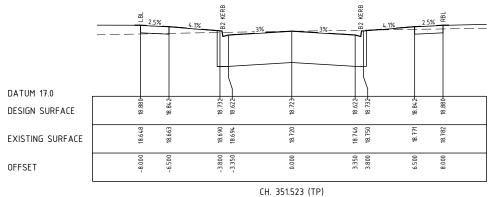






CH. 354.911 (RTP)

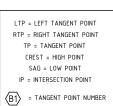




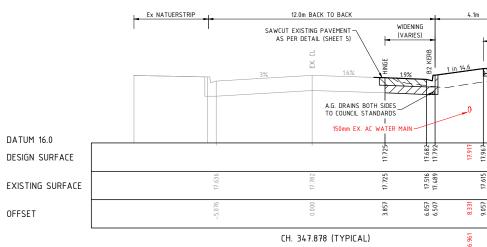
### **MINNAUNS ROAD - CROSS SECTIONS**

HORZ 1:100 VERT 1:50

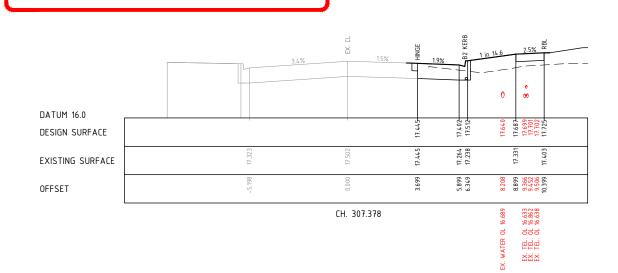
ISSUE	ISSUED FOR	DATE No.	AMENDMENT	DATE	DRAWN	APPROVED	. K.BOON	DATE: FEBUARY 2020		CLIENT:	PROJECT:	
00	FOR APPROVAL	28-02-2020 A	FOR CONSTRUCTION	22-06-202	20 G.R.	N.T. DRAWN:	G.ROACHE	SCALE: H 1:100 V 1:50	Cardno	and the second s	PHALARIS PARK ESTATE	
01	FOR APPROVAL	31-03-2020				SURVEY:	CARDNO TGM GEELONG	SHEET SIZE: A1		Phalaris	STAGE 11	DRAWING TITLE:
						CHECKED	R	APPROVED: Mar The	TGM	Park.	MATTHEWS ROAD	ROAD CROSS SECTIONS
						DOC NO.	<u> </u>		ABN 11 125 568 461 Level 1, 27-31 Myers Street (PO Box 1137) Geelong, VIC Australia 3220		LOVELY BANKS, VIC, 3221	MINNAUNS ROAD
						PUS NU:	PS834027D VERSION: V1	PERMIT NO: 1123/2004/A	Phone +61 3 5202 4600 Fax +61 3 5202 4691 Email: victoria@cardno.com.au Web: www.cardno.com			
							WORKS SHALL NOT COMMEN ARE SIGNED AND APPROVED F		JAS-ANZ Accredited: Quality ISO 9001 - OH&S AS/NZS 4801 - Environment ISO 14001	THIS ELECTRONIC DRAWING IS PRODUCED BY AUTOCAD (R) SYSTEMS AND REMAINS THE PROPERTY OF TGM GROUP Pty. Ltd. IT MAY NOT BE REPRODUCED IN ANY FORMAT WITHOUT WRITTEN PERMISSION.	CITY OF GREATER GEELONG	13 <sup>of</sup> 21 <sup>Rev.</sup> A ≥
J:\004108 (MATTHE)	VS ROAD)\211-CE (STAGE 11)\DWG\004101	-211 (CIVIL) REVA.DWG		•	•				•	•	•	<u>_</u>

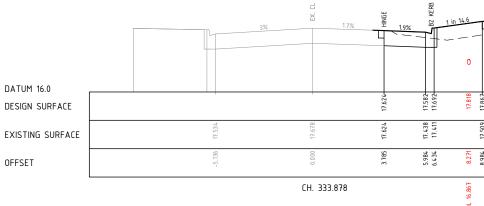


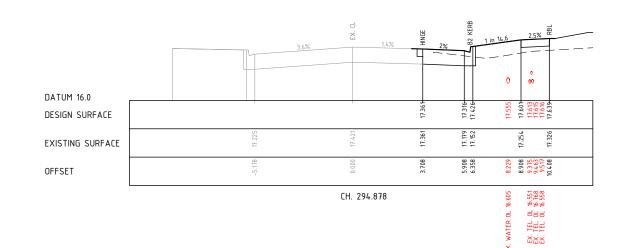
004108-211

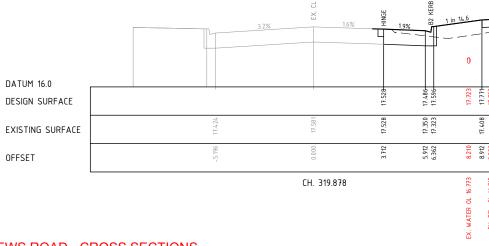


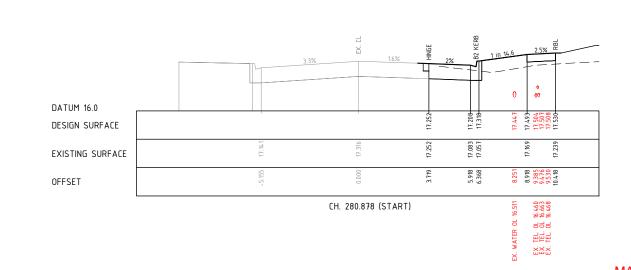
## FOR CONSTRUCTION



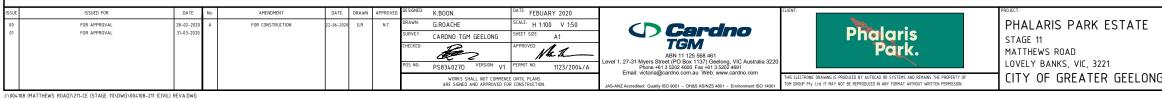






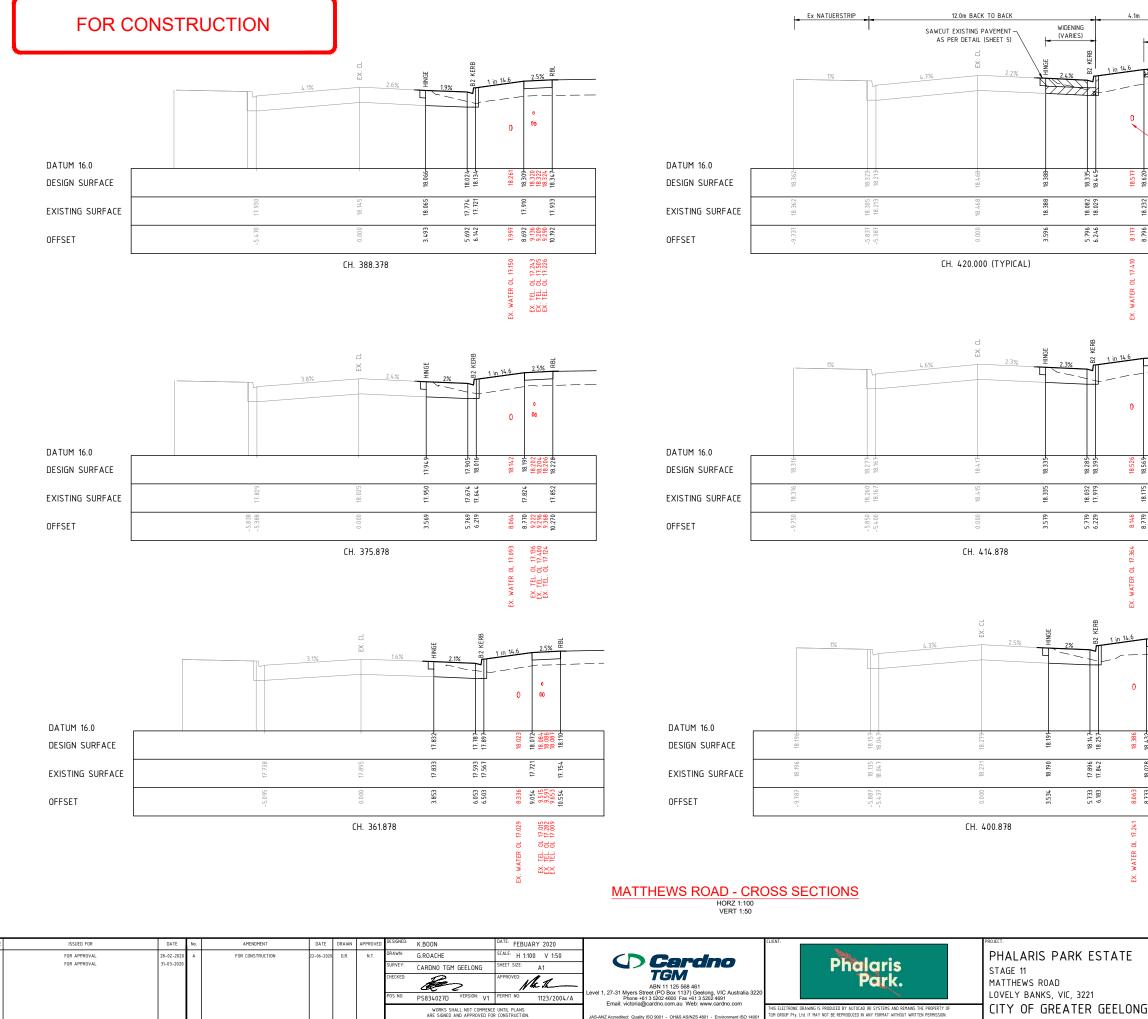






Ж

25% 125mm TH FOOTPATH CENTRALL CL3 FCR I BEYOND P	DESIGN SURFACE EXISTING SURFACE K. 25MPa CONCRETE H WITH SL72 MESH Y LOCATED DN 100mm EXTENDING 75mm PATH. BER CONDUITS	LTP = LEFT TANGENT POINT RTP = RIGHT TANGENT POINT TP = TANGENT POINT CREST = HIGH POINT SAG = LOW POINT IP = INTERSECTION POINT (B1) = TANGENT POINT NUMBER	
EX. TEL. 01. 6,806 9,553 17.509 17.867 8 • 1 55 EX. TEL. 01. 6,806 9,553 17.904 17.863 8 • 1 55 10.484 17.553 17.904 8 • 1 55			
25% 25% 25% 25% 25% 25% 25% 25% 25% 25%			TOP REF No. 004108-211
NG	CIVIL DF DRAWING TITLE ROAD CROSS SECTION MATTHEWS ROAD TOM REF. No: 004108-211	NS	SHEET: 14 OF 21 REV. A

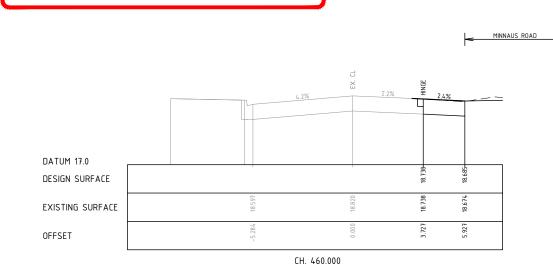


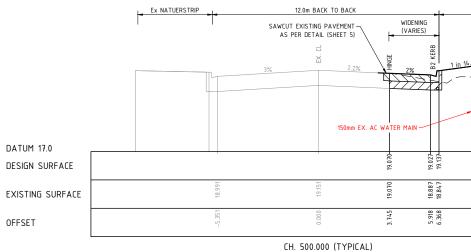
J:\004108 (MATTHEWS ROAD)\211-CE (STAGE 11)\DWG\004108-211 (CIVIL) REVA.DWG

ccredited: Quality ISO 9001 + OH&S AS/NZS 4801 + Environment ISO 14001

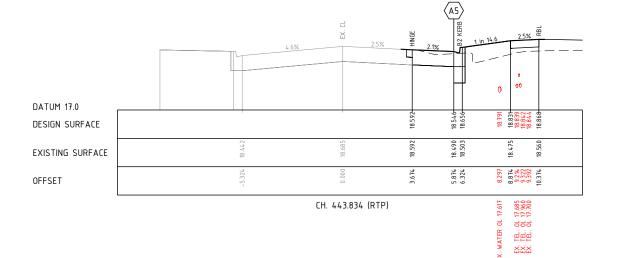
			_
m 1.5m	M JESIGN SURFACE	LTP = LEFT TANGENT POINT RTP = RIGHT TANGENT POINT TP = TANGENT POINT CREST = HIGH POINT SAG = LOW POINT	
2.5%	-EXISTING SURFACE	IP = INTERSECTION POINT	
POOTPATH CENTRALL 00 CL.3 FCR E BEYOND P	K. 25MPa CONCRETE 1 WITH SL72 MESH Y LOCATED DN 100mm EXTENDING 75mm 2ATH. BER CONDUITS	B1 = TANGENT POINT NUMBER	
(AC) 2x100m	m & 1x80mm AC WATER MAIN		
18.620 18.620 18.653 18.652 18.6520 18.6520 18.6520			
18.232 18.294			
8.796 9.166 9.296 9.349 10.296			
EX. TEL. 01. 17.486 EX. TEL. 01. 17.763 EX. TEL. 01. 17.763			
-			
<u>2.5%</u>			
0			
18:569 18:569 18:582 18:583 18:583 18:560 7			
18.175			
8.779 9.163 9.277 9.277 9.279 10.279			
EX. TEL. 01. 17.447 EX. TEL. 01. 17.723 EX. TEL. 01. 17.723			
2.5%			
0 00			
18:442 18:442 18:446 18:446 18:469			
18.028 18.080			
8.733 9.246 9.317 9.317 10.233			TGM
17.342 17.330 17.330			GM REF. No.:
			004108-211
ì			-211
		DRAWING	<sup>SHET:</sup> 15
	ROAD CROSS SECTI	ONS	5 ° 21
NG	MATTHEWS ROAD TGM REF. No.: 004108-211	SHEET: 15 OF 21	AA

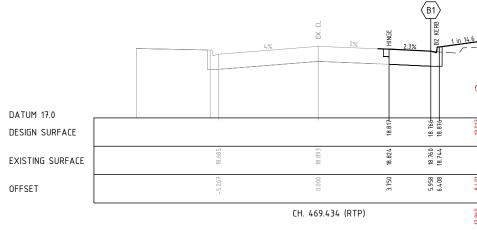
### FOR CONSTRUCTION

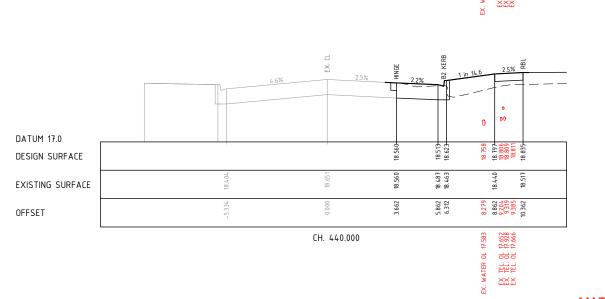




X DATUM 17.0 18.855 18.965 DESIGN SURFACE 18.863 18.857 18.898 18.977 EXISTING SURFACE 5.988 6.438 3.769 OFFSET CH. 480.000





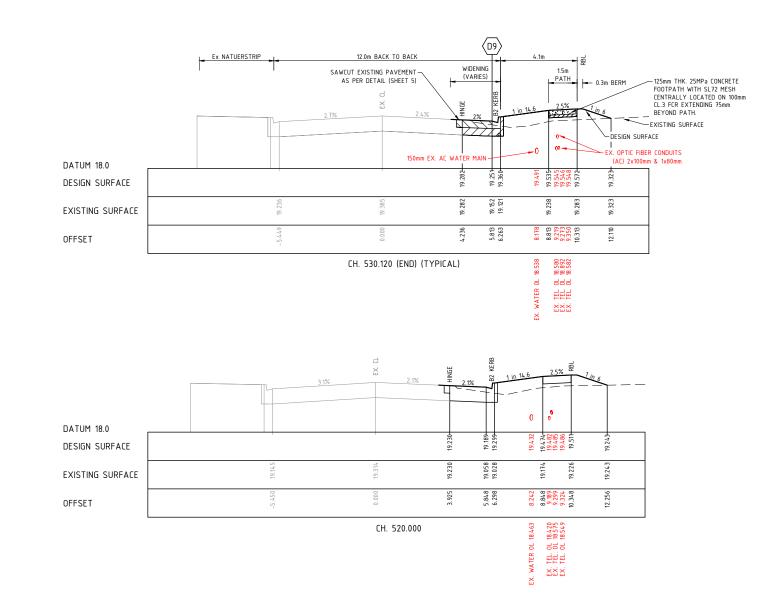


# MATTHEWS ROAD - CROSS SECTIONS HORZ 1:100 VERT 1:50



I									_						
- [	ISSUE	ISSUED FOR	DATE	No.	AMENDMENT	DATE	DRAWN	APPROVED	DESIGNED:	K.BOON	DATE: FEBUARY 2020		CLIENT:	-	PRO JECT:
[	00	FOR APPROVAL	28-02-202		FOR CONSTRUCTION	22-06-2020	G.R.	N.T.	DRAWN:	G.ROACHE	SCALE: H 1:100 V 1:50	Cardno			PHALARIS PARK ESTATE
	01	FOR APPROVAL	31-03-2020	)					SURVEY:	CARDNO TGM GEELONG	SHEET SIZE: A1			Phalaris	STAGE 11
									CHECKED:	R	APPROVED:	ABN 11 125 568 461		Park.	MATTHEWS ROAD
									POS NO:	PS834027D VERSION: V1	PERMIT NO: 1123/2004/A	Abin 11 125 506 461 Level 1, 27-31 Myers Street (PO Box 1137) Geelong, VIC Australia 3220 Phone +61 3 5202 4600 Fax +61 3 5202 4691	20		LOVELY BANKS, VIC, 3221
_ I												Email: victoria@cardno.com.au Web: www.cardno.com		RONG DRAWING IS PRODUCED BY AUTOCAD (R) SYSTEMS AND REMAINS THE PROPERTY OF	CITY OF GREATER GEELONG
										WORKS SHALL NOT COMMENCE ARE SIGNED AND APPROVED FO		JAS-ANZ Accredited: Quality ISO 9001 - OH&S AS/NZS 4801 - Environment ISO 14001		Pty. Ltd. IT MAY NOT BE REPRODUCED IN ANY FORMAT WITHOUT WRITTEN PERMISSION.	CITE OF URLATER ULLEONU
J	1:\004108 (	(MATTHEWS ROAD)\211-CE (STAGE 11)\DWG\004108-211 (CIV	/IL) REVA.DWG												

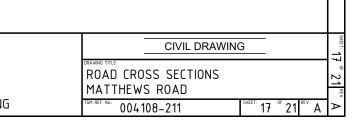
<u>4.1m -</u> 교 1.5m		LTP = LEFT TANGENT POINT RTP = RIGHT TANGENT POINT TP = TANGENT POINT CREST = HIGH POINT SAG = LOW POINT	
<mark>= PATH</mark>  = 0.3m B	ærm Ædesign surface	IP = INTERSECTION POINT	
14.6 2.5%	EXISTING SURFACE	B1 = TANGENT POINT NUMBER	
0 00 FOOTP CENTR. CL.3 FO BEYON EX. OPTIC	THK 25MPa CONCRETE ATH WITH SL72 MESH ALLV LOCATED ON 100mm CR EXTENDING 75mm ID PATH. FIBER CONDUITS Dmm & 1x80mm		
19.272 19.315 19.321 19.321 19.322 19.349			
19.013 19.076			
8.339 8.97 9.291 9.291 9.343 10.418			
EX WATER OL 18.219 EX TEL OL 18.438 EX TEL OL 18.438 EX TEL OL 18.137			
14.6 2.5% 문	_		
0 00	_		
19.101 19.14.0 19.14.7 19.14.7 19.151 19.177			
18.893 18.942	-		
8.423 8.988 9.291 9.477 9.477 9.447	-		
EX. MATER OL 17.981 EX. TEL. OL 17.976 EX. TEL. OL 17.991 EX. TEL. OL 17.991			
. <u>6 2.5%</u>	_		
	_		
0 00			
19.013 19.051 19.061 19.063 19.088	7		
18.889 18.921	-		
8.401 8.958 9.254 9.237 9.437 10.458	_	Г	TGM
EX. WATER OL 17.860 EX. TEL. OL 17.897 EX. TEL. OL 17.915 EX. TEL. OL 17.915	-	004108-211	
			\$
	CIVIL DR/	AWING	SHEET:
	ROAD CROSS SECTION		9i
NG	MATTHEWS ROAD TGM REF. No.: 004108-211	SHEET: 16 OF 21 REV. A	REV:
	004100-211		L

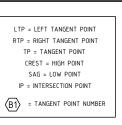


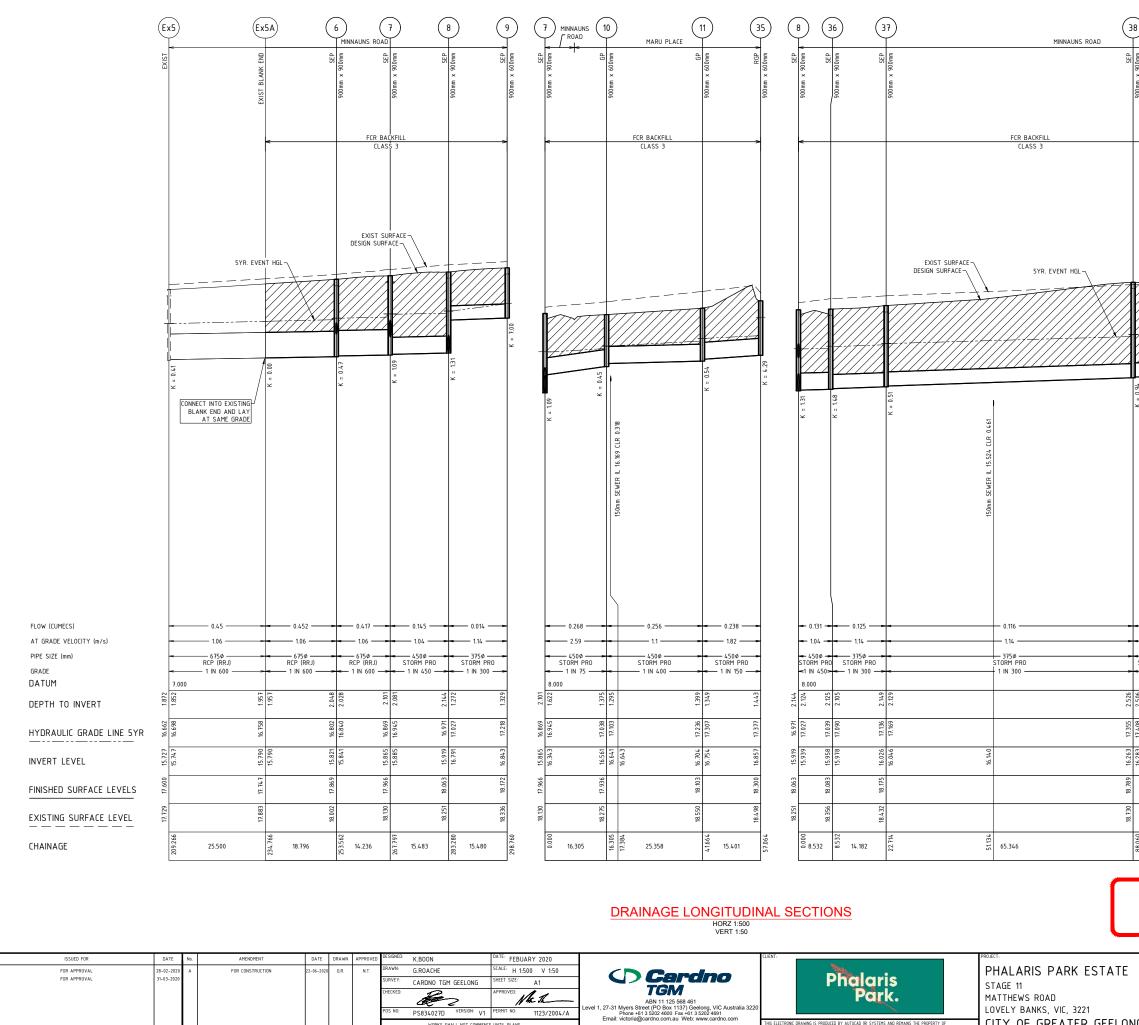
### MATTHEWS ROAD - CROSS SECTIONS

HORZ 1:100 VERT 1:50

- [	ISSUE ISSUED FOR	DATE No	No. AMENDMENT	DATE D	IRAWN APPF	ROVED	ESIGNED: K.BOON	DATE: FEBUARY 2020		CLIENT:	PROJECT:
Ī	00 FOR APPROVAL	28-02-2020 A	A FOR CONSTRUCTION	22-06-2020	G.R. N	LT. DR.	RAWN: G.ROACHE	SCALE: H 1:100 V 1:50	Cardno		PHALARIS PARK ESTATE
	01 FOR APPROVAL	31-03-2020				SU	URVEY: CARDNO TGM GEELONG	SHEET SIZE: A1		Phalaris	STAGE 11
						CHE	HECKED:	APPROVED: No. 1	TGM	Park.	MATTHEWS ROAD
						PO	DS NO: PS834027D VERSION: V1	PERMIT NO: 1123/2004/A	ABN 11 125 568 461 Level 1, 27-31 Myers Street (PO Box 1137) Geelong, VIC Australia 3220		LOVELY BANKS, VIC, 3221
						- H	F3634027D VI	11237 20047 A	Phone +61 3 5202 4600 Fax +61 3 5202 4691 Email: victoria@cardno.com.au Web: www.cardno.com	THIS ELECTRONC DRAWING IS PRODUCED BY AUTOCAD IRI SYSTEMS AND REMAINS THE PROPERTY OF	CITY OF GREATER GEELONG
							WORKS SHALL NOT COMMENCE ARE SIGNED AND APPROVED FOR		JAS-ANZ Accredited: Quality ISO 9001 - OH&S AS/NZS 4801 - Environment ISO 14001	TIG GROUP Pty. Ltd. IT MAY NOT BE REPRODUCED IN ANY FORMAT WITHOUT WRITTEN PERMISSION.	LITT OF URLATER DEELUND
		441 444 AM (CHIN) DELLA DUIC									







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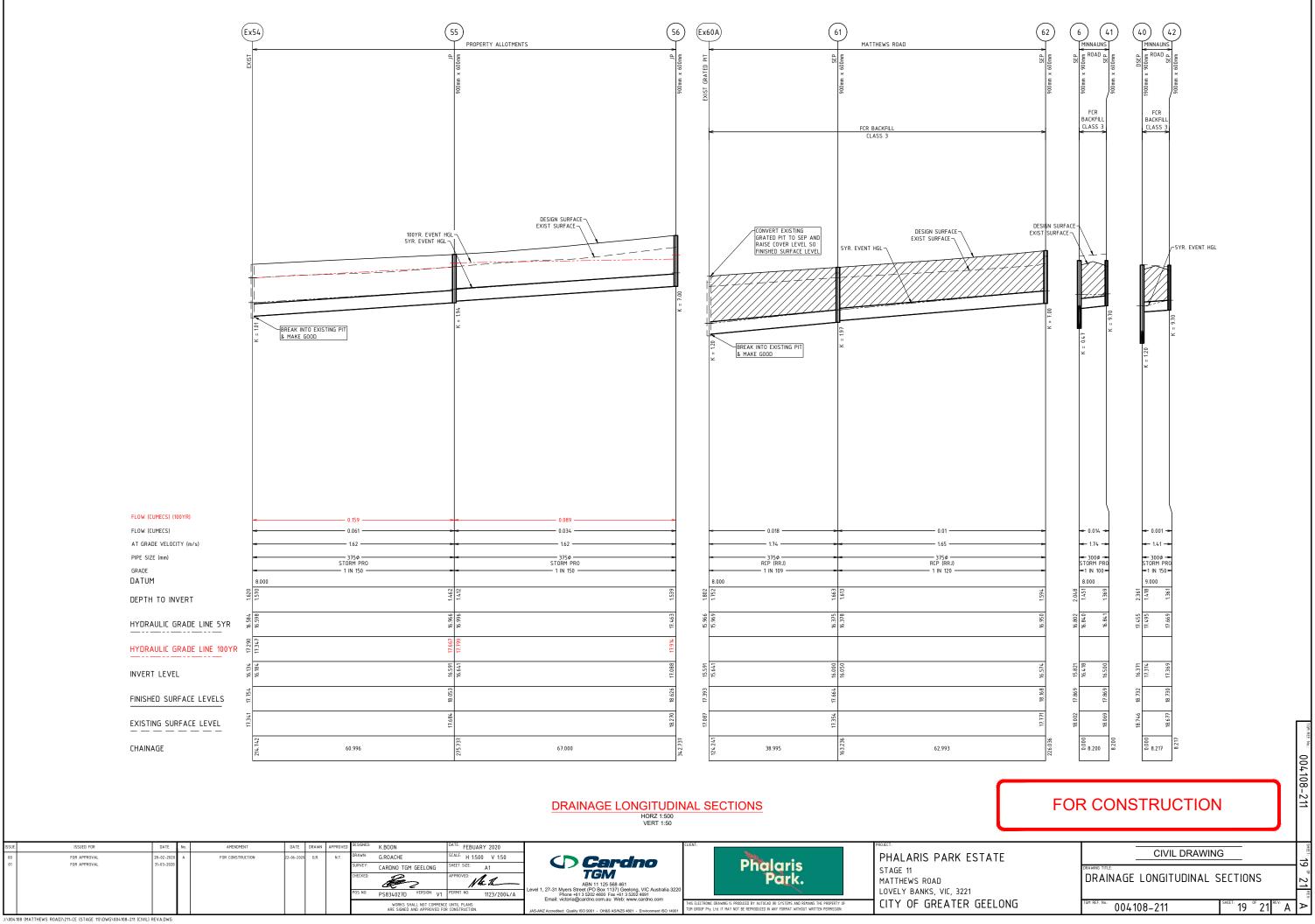
WORKS SHALL NOT COMMENCE UNTIL PLANS ARE SIGNED AND APPROVED FOR CONSTRUCTION

J:\004108 (MATTHEWS ROAD)\211-CE (STAGE 11)\DWG\004108-211 (CIVIL) REVA.DWG

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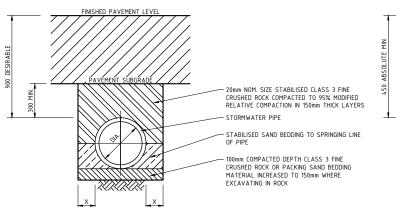
LOVELY BANKS, VIC, 3221 CITY OF GREATER GEELONG

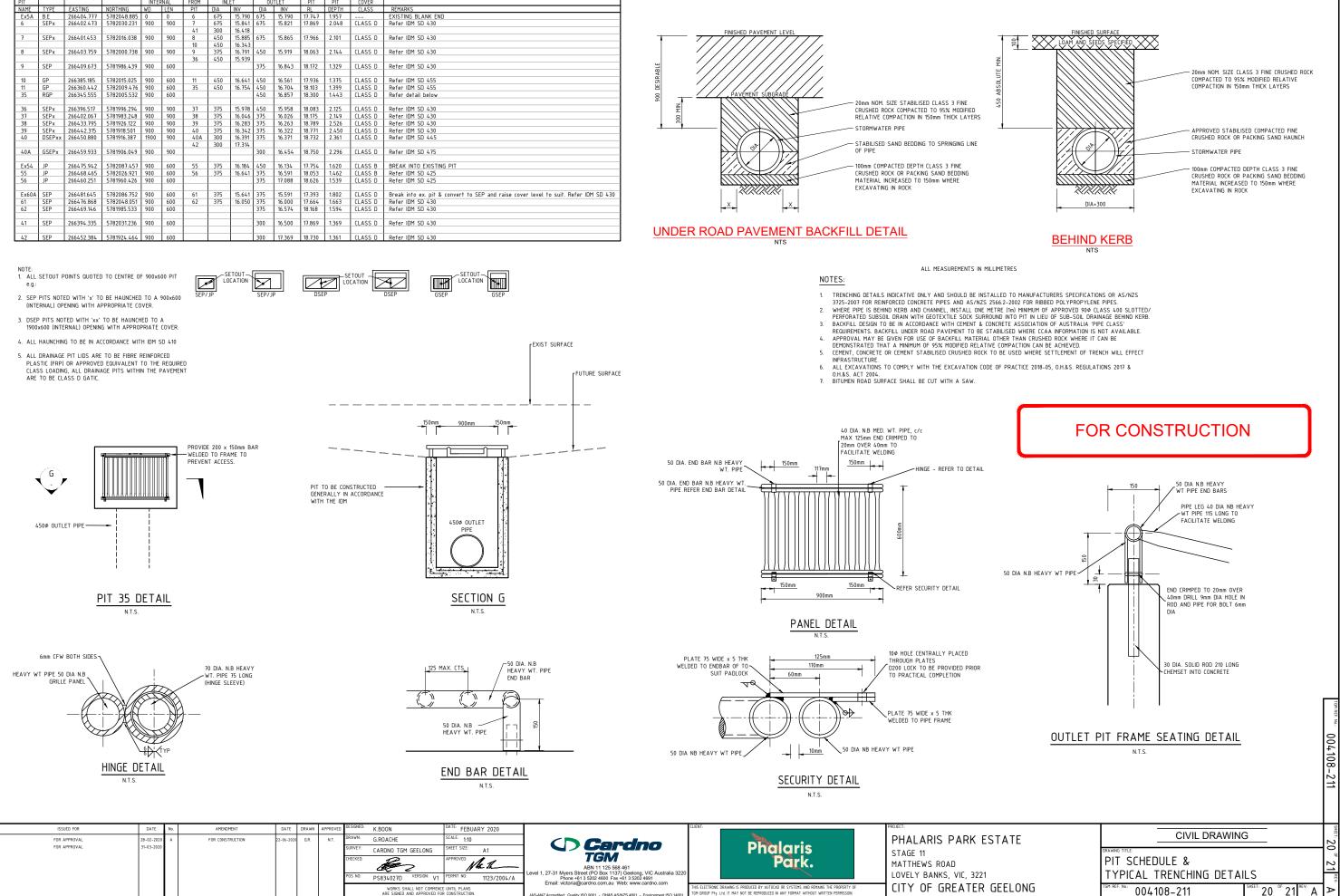
900mm × 900mm	SEP	900mm × 900mm	descent and descen							desep	A mm006 × mm06								
K = 0.94		K = 0.38			Ex 80mm COMMS x1 & 900mm COMMS x2 IL 17:781 (MNI) CLR 1044	Ex 150mm WATER IL 17695 CLR 0.953	EX 150mm SEWEK IL 17,000 LLK 0.305 K = 2.79												
0.089 1.14 - 375ø STORM P 1 IN 30	RO	- 1.14 - 375¢ STORM	PRO			STO	1.061 1.16 - 1.00Ø - RM PF N 221			*									
2.506	2.450		2.361	1 40.2						2.296									
17.4.08		17.440		CK + 1						17.531									
16.283	16.322	16.34.2	16.371	160.01	16.435	16.435	16.436	16.44.2	16.450	16.454									
	9 18.771		6 18.732						_	51 18.750									
090 88 11.470	18.759	66.530 8.836	18.746	000	118.008	118.116	118.227	119.388	121.043	18.761	122.336								TGM REF. No.:
<u>∞</u> 11.470		gi 8.830			,00					IC		10	N				]		TOM REF. No.: 004108-211
				00	LANC 7.				С	IVII	_ DI	RAV	VINC	G	_				8HET: 18
					RA		GE	L	DNC	5IT	UD	INA	LS	EC	TIOI	٧S			3 <sup>of</sup> 21 REV.
IG				TGM	REF. No.	0	04′	08	-2′	11				SHEET	18	<sup>of</sup> 2	1 REV:	A	A



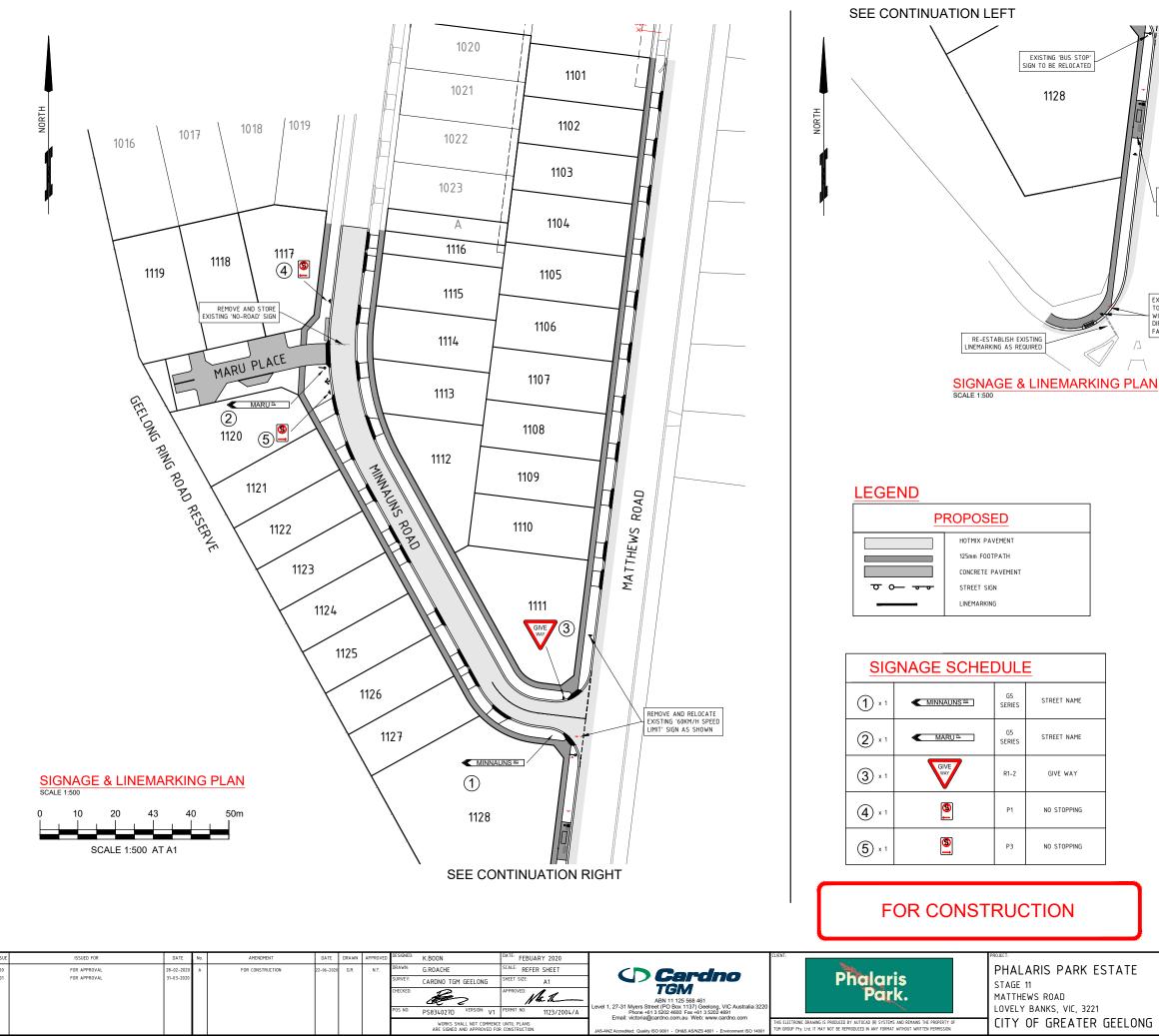
#### **PIT SCHEDULE**

PIT				INTER	RNAL	FROM	INL	ET	00	TLET	PIT	PIT	COVER	
NAME	TYPE	EASTING	NORTHING	WD	LEN	PIT		INV	DIA	INV	RL	DEPTH	CLASS	REMARKS
Ex5A	B.E	266404.777	5782048.885	0	0	6	675	15.790		15.790	17.747	1.957		EXISTING BLANK END
6	SEPx	266402.473	5782030.231	900	900	7	675	15.841	675	15.821	17.869	2.048	CLASS D	Refer IDM SD 430
						41	300	16.418						
7	SEPx	266401.453	5782016.038	900	900	8	450	15.885	675	15.865	17.966	2.101	CLASS D	Refer IDM SD 430
						10	450	16.343						
8	SEPx	266403.759	5782000.738	900	900	9	375	16.791	450	15.919	18.063	2.144	CLASS D	Refer IDM SD 430
						36	450	15.939						
9	SEP	266409.673	5781986.439	900	600				375	16.843	18.172	1.329	CLASS D	Refer IDM SD 430
10	GP	266385.185	5782015.025	900	600	11	450	16.641		16.561	17.936	1.375	CLASS D	Refer IDM SD 455
11	GP	266360.442	5782009.476	900	600	35	450	16.754	450	16.704	18.103	1.399	CLASS D	Refer IDM SD 455
35	RGP	266345.555	5782005.532	900	600				450	16.857	18.300	1.443	CLASS D	Refer detail below
36	SEPx	266396.517	5781996.294	900	900	37	375	15.978		15.958	18.083	2.125	CLASS D	Refer IDM SD 430
37	SEPx	266402.067	5781983.248	900	900	38	375	16.046	375	16.026	18.175	2.149	CLASS D	Refer IDM SD 430
38	SEPx	266433.795	5781926.122	900	900	39	375	16.283	375	16.263	18.789	2.526	CLASS D	Refer IDM SD 430
39	SEPx	266442.315	5781918.501	900	900	40	375	16.342	375	16.322	18.771	2.450	CLASS D	Refer IDM SD 430
40	DSEPxx	266450.880	5781916.387	1900	900	40A	300	16.391	375	16.371	18.732	2.361	CLASS D	Refer IDM SD 445
						42	300	17.314						
40A	GSEPx	266459.933	5781906.049	900	900				300	16.454	18.750	2.296	CLASS D	Refer IDM SD 475
Ex54	JP	266475.942	5782087.457	900	600	55	375	16.184	450	16.134	17.754	1.620	CLASS B	BREAK INTO EXISTING PIT
55	JP	266468.465	5782026.921	900	600	56	375	16.641	375	16.591	18.053	1.462	CLASS B	Refer IDM SD 425
56	JP	266460.251	5781960.426	900	600				375	17.088	18.626	1.539	CLASS D	Refer IDM SD 425
Ex60A	SEP	266481.645	5782086.752	900	600	61	375	15.641	375	15.591	17.393	1.802	CLASS D	Break into ex. pit & convert to SEP and raise cover level to suit. Refer IDM SD
61	SEP	266476.868	5782048.051	900	600	62	375	16.050	375	16.000	17.664	1.663	CLASS D	Refer IDM SD 430
62	SEP	266469.146	5781985.533	900	600				375	16.574	18.168	1.594	CLASS D	Refer IDM SD 430
				i	i i						1	ĺ		
41	SEP	266394.335	5782031.236	900	600				300	16.500	17.869	1.369	CLASS D	Refer IDM SD 430
42	SEP	266452.384	5781924.464	900	600				300	17.369	18,730	1.361	CLASS D	Refer IDM SD 430



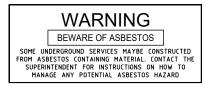


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CABLE IN THE AREA

LADLE IN INE AREA THE ACCURACY OR COMPLETENESS OF THE COMMS CABLE LOCATION SHOWN ON THIS PLAN CAN NOT BE GUARANTEED AND ACCORDINGLY ARE INTENDED TO BE READ AS INDICATIVE ONLY. PLEASE READ AND UNDERSTAND THE COMMS DUTY OF CARE STATEMENT.

## WARNING

BEWARE OF UNDERGROUND SERVICES

THE LOCATIONS OF UNDERGROUND SERVICES ARE APPROXIMATE ONLY AND THEIR EXACT POSITION SHOULD BE PROVEN ON SITE. NO GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN.

## WARNING

BEWARE OF ABOVE GROUND SERVICES

ANY EXCAVATION IN THE VICINITY OF POWER POLES TO BE IN ACCORDANCE WITH THE ELECTRICAL SAFETY (NETWORK ASSETS) REGULATIONS 1999 - RULE 36 (d). NO GO ZONE RULES MAY ALSO APPLY

	CIVIL DRAWING	3	5 <sup>HEET:</sup> 2
	SIGNAGE AND LINEMARKING	5 PLAN	1 º 21
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