GENERAL NOTES

- 1. ALL WORKS ARE TO BE CARRIED OUT IN ACCORDANCE WITH THE INFRASTRUCTURE DESIGN MANUAL (IDM). THE WORKS SHALL ALSO COMPLY WITH THESE DRAWINGS AND AS2124-1992 GENERAL CONDITIONS OF CONTRACT. A COPY OF THE APPROVED DRAWINGS & SPECIFICATIONS ARE TO BE KEPT ON SITE DURING THE WORKS.
- 2. COUNCILS SUPERVISING ENGINEER TO BE NOTIFIED (2) TWO CLEAR DAYS PRIOR TO COMMENCEMENT OF WORKS.
- 3. UNDERGROUND SERVICES ARE TO BE PROVEN PRIOR TO COMMENCEMENT OF WORKS.

 ANY DAMAGE TO SERVICES WILL BE THE RESPONSIBILITY OF AND BE REPAIRED BY THE CONTRACTOR.
- 4. PRIOR TO COMMENCEMENT OF WORKS ON SITE, THE CONTRACTOR MUST ENSURE THAT ALL MATTERS RELATING TO THE OCCUPATIONAL HEALTH AND SAFETY ACT 2005, INCLUDING ALL RELEVANT REGULATIONS HAVE BEEN ADDRESSED. IN PARTICULAR THE REQUIRED NOTIFICATIONS MUST BE CONVEYED TO THE VICTORIAN WORK COVER AUTHORITY HEALTH AND SAFETY DIVISION WITH RESPECT TO TRENCHING OPERATIONS. DETAILS OF THE CONTRACTORS OCCUPATIONAL HEALTH AND SAFETY PROCEDURES MUST BE LODGED WITH THE SUPERINTENDENT PRIOR TO COMMENCEMENT OF WORKS.
- 5. CROSS SECTIONS WITH 2 WAY CROSS FALL INCLUDE A 2 METRE VERTICAL CURVE WITH A 15mm DROP DOWN. LEVELS PROVIDED ON THE LONGITUDINAL AND CROSS SECTIONS REFER TO THE IP AT THE CROWN.
- 6. STREET SIGN TO IDM STANDARD AND COUNCILS STANDARD
- 7. NATURE STRIPS CUT AND FILLED ARE TO BE TOP SOILED WITH 100mm APPROVED MATERIAL AND SEEDED PRIOR TO COMPLETION OF WORKS.
- 8. HOUSE DRAIN CONNECTION LOCATIONS ARE TO BE INDICATED ON THE KERB WITH THE INSCRIPTION 'H'.
- 9. CONDUIT LOCATIONS TO BE MARKED ON KERB.
- 10. ON COMPLETION THE CONTRACTOR IS RESPONSIBLE FOR REMOVAL OF ALL RUBBISH AND LOTS ARE TO BE UNIFORMLY GRADED AND LEFT IN A CLEAN SPOIL FROM SITE. AND TIDY CONDITION.
- 11. ALL ROAD CHAINAGES ARE MEASURED ALONG THE ROAD CENTRELINE, EXCEPT KERB RETURNS AND COURT HEAD.
- 12. LOTS DENOTED THUS 10H ARE TO BE PROVIDED WITH A 100MM DIA. HOUSE DRAIN PLACED 6.0M FROM LOW CORNER OF LOT UNLESS OTHERWISE SHOWN.
- 13. PROPERTY INLETS LOCATED AT THE REAR OF PROPERTIES ARE TO LOCATED AT AN OFFSET OF 1.0M FROM LOW CORNER OF THE LOT. ALL PROPERTY INLETS IN THE ROAD RESERVE SHALL BE LOCATED AT AN OFFSET OF 5.00M FROM THE LOWEST CORNER OF THE LOT, UNLESS INDICATED OTHERWISE.
- 14. DRAINAGE PIPES LOCATED UNDER ROADS, VEHICULAR CROSSINGS AND FOOTPATH TO BE BACKFILLED WITH 20MM CLASS 3 CRUSHED ROCK COMPACTED TO 95%%% SMDD IN MAX. 150MM LAYERS AS PER IDM SD 310.
- 15. PROPERTY INLETS IN EASEMENT DRAINS CONNECTION ARE REFERRED TO IDM SD 520.
- 16. ALL CONCRETE PIPES UP TO AND INCLUDING 450MM Ø ARE TO BE MINIMUM CLASS 2 RUBBER RING JOINTED REINFORCED CONCRETE PIPES. PIPES LARGER THAN 450MM Ø MAY BE INTERLOCKING JOINTED.
- 17. ALL PIPES UNDER ROAD PAVEMENT ARE TO BE CLASS 2 RUBBER RING JOINTED-REINFORCED CONCRTE PIPES.
- 18. ALL VEHICLE CROSSINGS TO BE CONSTRUCTED IN 125MM THICK REINFORCED CONCRETE INSPECTED PRIOR TO THE BAW BAW SHIRE TAKING OVER THE CARE OF THESE WORKS.
- 19. THESE WORKS ARE TO BE MAINTAINED FOR A PERIOD OF 12 MONTHS
- 20. ALL AREAS TO BE FILLED INCLUDING DAMS, OLD DRAINS, OPEN DRAINS ETC ARE TO BE CLEANED OUT AND EXCAVATED TO A SOLID BASE. ALL FILL MATERIAL TO BE IN ACCORDANCE WITH E.P.A. CLEAN FILL GUIDELINES AND APPROVED BY THE SUPERINTENDENT. COMPACTION OF FILL TO COMPLY TO AS1289 5.1.1 1993, AND ANY REVISIONS. FILLING OF ALLOTMENTS WILL REQUIRE THE REMOVAL OF TOPSOIL TO A SOLID BASE AND COMPACTION TO 95%%% OF THE MAXIMUM DRY DENSITY AND ALL FILL IS TO BE BE COMPACTED IN LAYERS NOT EXCEEDING 150MM S.C.T.D. REFER AS 3798 1996.
- 21. MINIMUM GRADE OF ALLOTMENTS TO BE 1 IN 150
- 22. VEHICLE CROSSINGS TO BE CONSTRUCTED TO IDM SD 240.
- 23. ALL DRAINAGE LINES TO BE CONSTRUCTED IN ACCORDANCE WITH IDM SD 400

SITE MANAGEMENT NOTES

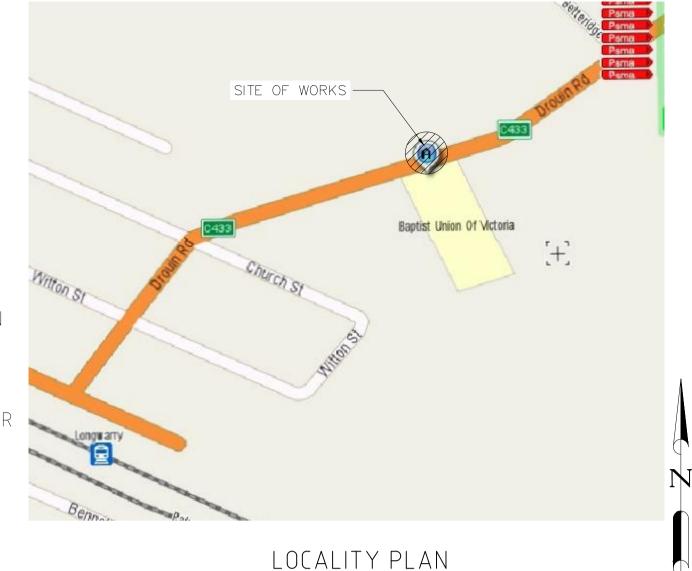
1. STORMWATER FALLING ON THE SITE SHALL NOT TO BE PERMITTED TO ENTER THE EXISTING DRAINAGE SYSTEM IF CARRYING SUSPENDED SOLIDS PICKED UP FROM THE SITE. STRAW BALES UPSTREAM OF DISCHARGE POINTS SHALL BE USED TO FILTER FLOW, OR FILTER BASKETS IN SIDE ENTRY PITS OR OTHER CONTROLS MAY BE USED FILTER SYSTEMS SHALL BE MAINTAINED IN GOOD ORDER FOR THE DURATION OF THE WORKS.

2. SILT FENCES TO BE ERECTED AROUND ANY STOCK PILES OF SOIL/CLAY AND MAINTAINED AT ALL TIMES DURING CONSTRUCTION TO PREVENT ANY SILT LADEN RUN OFF ENTERING STORM WATER DRAINS.

3. DUST GENERATION BY EITHER MOVING PLANT OR WIND SHALL BE CONTROLLED BY APPLICATION OF WATER AT TIMES WHEN GENERATION IN QUALITY IS LIKELY, A WATER CART SHALL BE MAINTAINED ON THE SITE FOR IMMEDIATE USE.

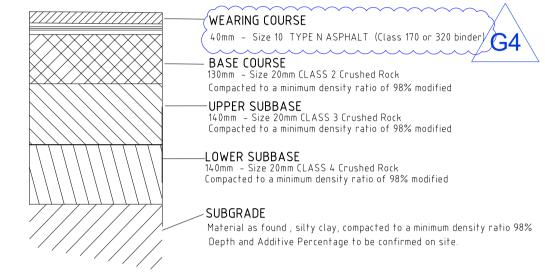
FILL NOTES

FILLING IN PROPERTIES IS TO BE CARRIED OUT USING APPROVED CLAY FILL. TOPSOIL AND ALL VEGETABLE MATTER IS TO BE STRIPPED FROM THE SITE PRIOR TO FILLING AND ALL FILLING IS TO BE CARRIED OUT IN 150mm LAYERS AND COMPACTED TO 95% OF THE MAXIMUM DRY DENSITY. ALL FILLING IS TO COMPLY WITH LEVEL 1 SUPERVISION TYPE 1 TO AS 3798/1996.



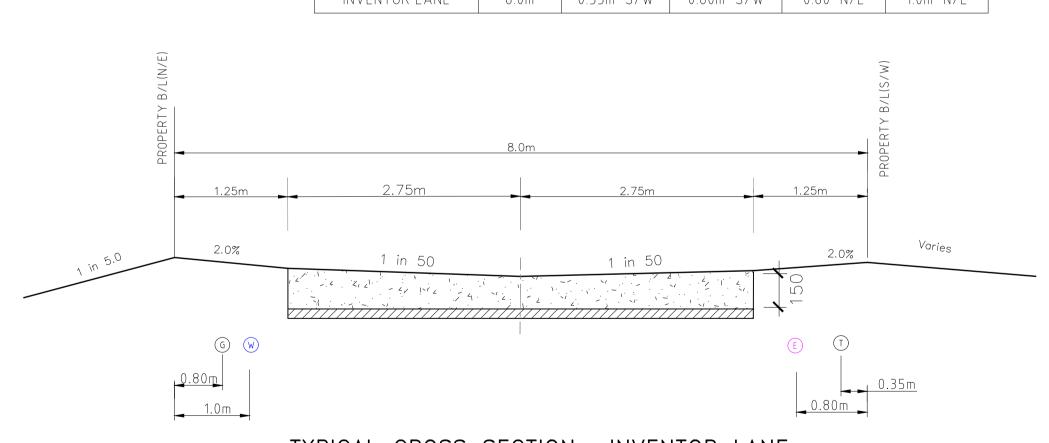
SCALE NTS

	SHEET INDEX
DRAWING	DESCRIPTION
CCD18072-01	FACE SHEET - LOCALITY PLAN, OVERALL LAYOUT PLAN & NOTES
CCD18072-02	STAGE 1 DETAIL PLAN
CCD18072-03	FLAME STREET,GASLIGHT STREET,COMMON PROPERTY & GASLIGHT STREET - COURT LONGITUDINAL SECTIONS
CCD18072-04	FLAME & GASLIGHT STREET CROSS SECTIONS
CCD18072-05	GASLIGHT STREET & COMMON PROPERTY CROSS SECTIONS
CCD18072-06	OVERALL CATCHMENTS PLAN
CCD18072-07	DRAINAGE LONGITUDINAL SECTIONS - 1 of 3
CCD18072-08	DRAINAGE LONGITUDINAL SECTIONS - 2 of 3
CCD18072-09	DRAINAGE LONGITUDINAL SECTIONS - 3 of 3 & PIT SCHEDULED
CCD18072-10	Q5 & Q100 COMPUTATIONS
CCD18072-11	DETENTION BASIN LAYOUT PLAN & BASIN CROSS SECTION
CCD18072-12	OUTLET PIPE LONGITUDINAL SECTION, PIT SCHEDULED & DETENTION PIT DETAILS
CCD18072-13	LINE MARKING
CCD18072-14	SEMP 1
CCD18072-15	SEMP 2



PAVEMENT MAKE-UP DETAIL
FLAME STREET & GASLIGHT STREET

	SERVI	CES SCHEDU	JLE - STAGE	Ξ 1	
ROAD NAME	RESERVE WIDTH	TELSTRA	ELECTRICAL	GAS	DRINKIN WATE
FLAME STREET	16.0m	2.00m E	2.50m E	2.00 W	2.50m
GASLIGHT STREET	16.0m	2.00m N	2.50m N	2.00 S	2.50m
INVENTOR LANE	8.0m	0.35m S/W	0.80m S/W	0.80 N/E	1.0m N/



TYPICAL CROSS SECTION —INVENTOR LANE (Common property No.1)

SCALES: NTS



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A MOCS ENQUIRY ON 1100 MUST BE MADE BY THE CONTRACTOR
PRIOR TO COMMENCEMENT OF WORKS.

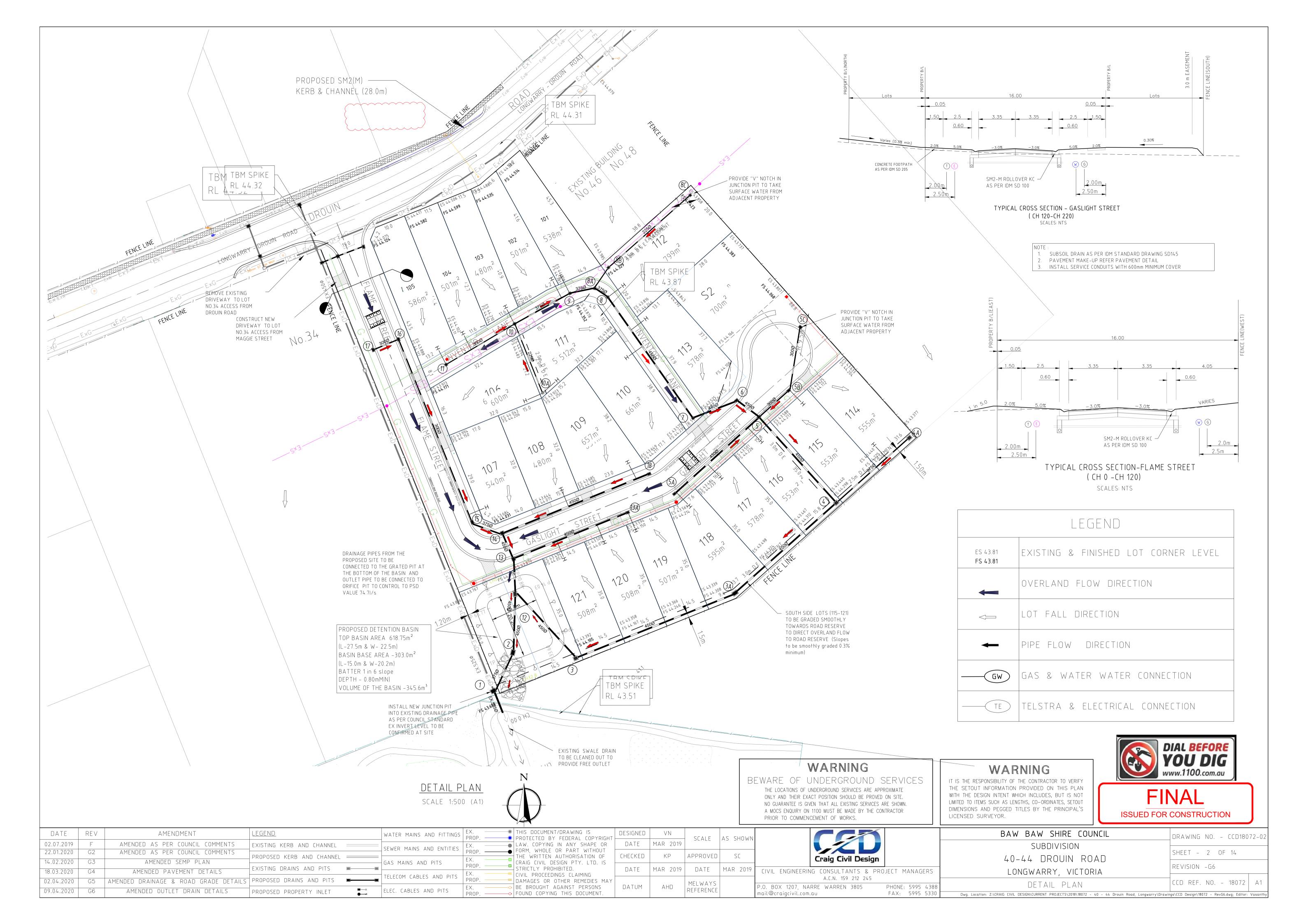
WARNING

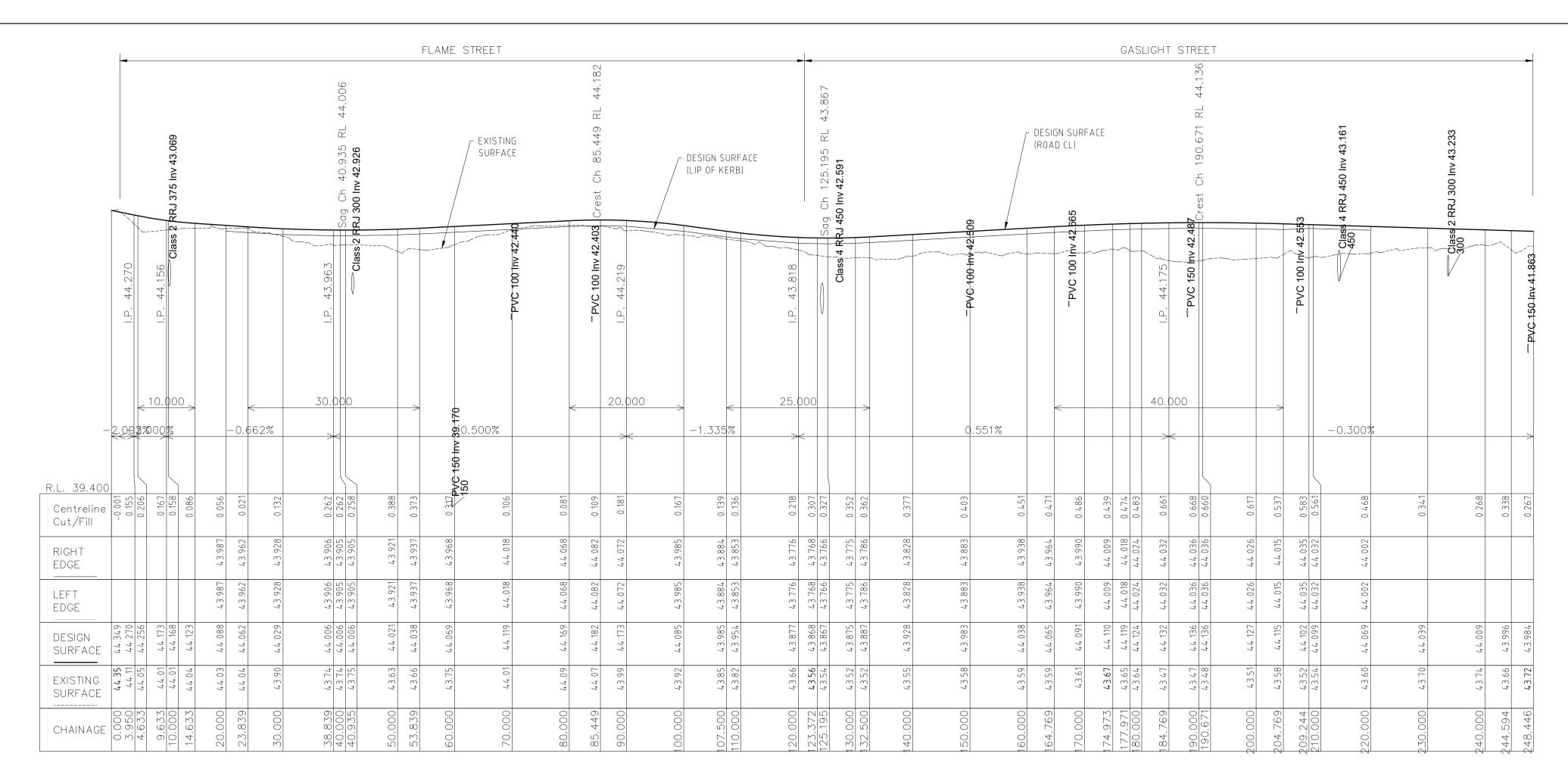
IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE SETOUT INFORMATION PROVIDED ON THIS PLAN WITH THE DESIGN INTENT WHICH INCLUDES, BUT IS NOT LIMITED TO ITEMS SUCH AS LENGTHS, CO-ORDINATES, SETOUT DIMENSIONS AND PEGGED TITLES BY THE PRINCIPAL'S LICENSED SURVEYOR.



FINAL ISSUED FOR CONSTRUCTION

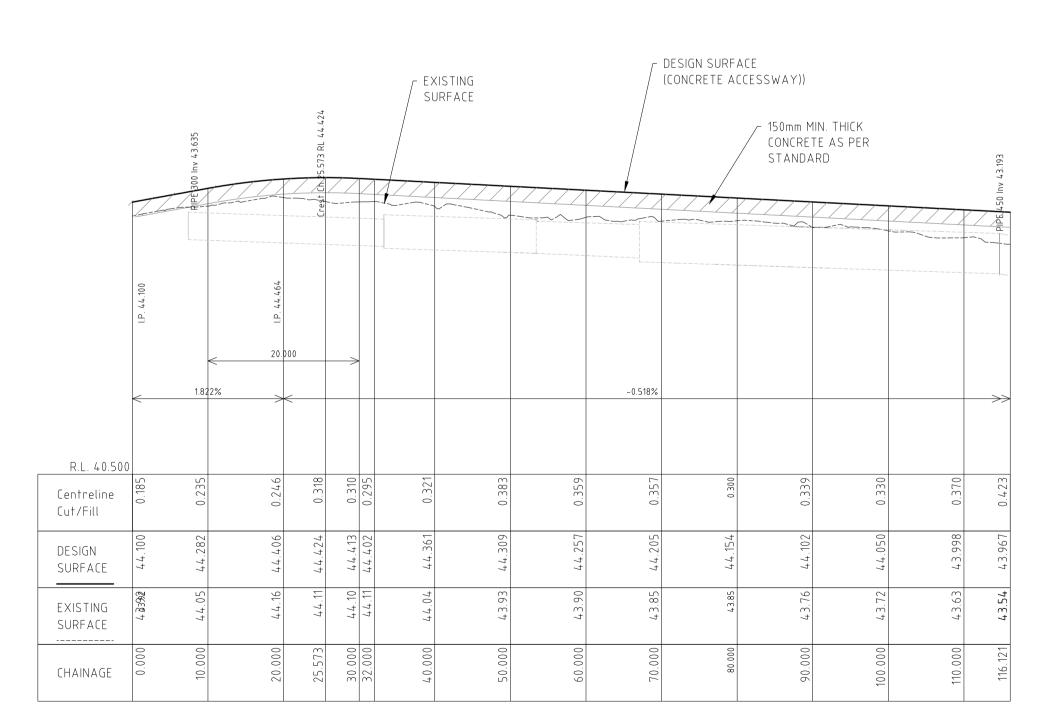
DATE	REV	AMENDMENT	LEGEND	WATER MAINS AND FITTINGS EX. THIS DOCUMENT/DRAWING IS DESIGNED VN SCALE AS	HOWN	BAW BAW SHIRE COUNCIL	DRAWING NO CCD18072-01
02.07.2019	F		EXISTING KERB AND CHANNEL =======	SEWER MAINS AND ENTITIES EX. LAW. COPYING IN ANY SHAPE OR DATE MAR 2019		SUBDIVISION	
1/. 02 2020	G2	AMENDED AS PER COUNCIL COMMENTS AMENDED SEMP PLAN	PROPOSED KERB AND CHANNEL -	THE WRITTEN AUTHORISATION OF CHECKED KP APPROVED CRAIG CIVIL DESIGN PTY. LTD. IS	Craig Civil Design	40-44 DROUIN ROAD	SHEET - 1 OF 14
18.03.2020	G4		EXISTING DRAINS AND PITS	STRICTLY PROHIBITED. DATE MAR 2019 DATE MAR		LONGWARRY, VICTORIA	REVISION -G6
02.04.2020	G5 A	AMENDED DRAINAGE & ROAD GRADE DETAILS	PROPOSED DRAINS AND PITS	TELECOM CABLES AND PITS PROP. CIVIL PROCEEDINGS CLAIMING DAMAGES OR OTHER REMEDIES MAY MELWAYS	A.C.N. 159 212 245	FACE SHEET & GENERAL NOTES	CCD REF. NO 18072 A1
09.04.2020	G6	AMENDED OUTLET DRAIN DETAILS	PROPOSED PROPERTY INLET	ELEC. CABLES AND PITS EX. PROP. PROP. POUND COPYING THIS DOCUMENT. BAMAGES OR OTHER REMEDIES MAT DATUM AHD MELWAYS REFERENCE	P.O. BOX 1207, NARRE WARREN 3805 PHONE: 5995 4388 mail@craigcivil.com.au FAX: 5995 5330	Dwg. Location: Z:\CRAIG CIVIL DESIGN\CURRENT PROJECTS\2018\18072 - 40 - 44 Drouin Road, Longwarry\Dra	wings\CCD Design\18072 - RevG6.dwg; Editor: Vasanthy





LONGITUDINAL SECTION- FLAME STREET & GASLIGHT STREET

CH 0.000 TO CH 248.446 SCALES: HORIZONTAL = 1:500; VERTICAL = 1:50 (A1)



LONGITUDINAL SECTION-INVENTOR LANE

CH 0.000 TO CH 116.121 SCALES: HORIZONTAL = 1:500; VERTICAL = 1:50 (A1)

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PRIOR TO COMMENCEMENT OF WORKS.

LONGITUDINAL SECTION-GASLIGHT STREET- COURT CH 0.000 TO CH 73.015

SCALES: HORIZONTAL = 1:500; VERTICAL = 1:50 (

5.000 6.949 10.000 15.000 25.000 25.000 35.000 36.949 40.000

WARNING

r EXISTING SURFACE

Centreline Cut/Fill

DESIGN SURFACE

EXISTING SURFACE

CHAINAGE

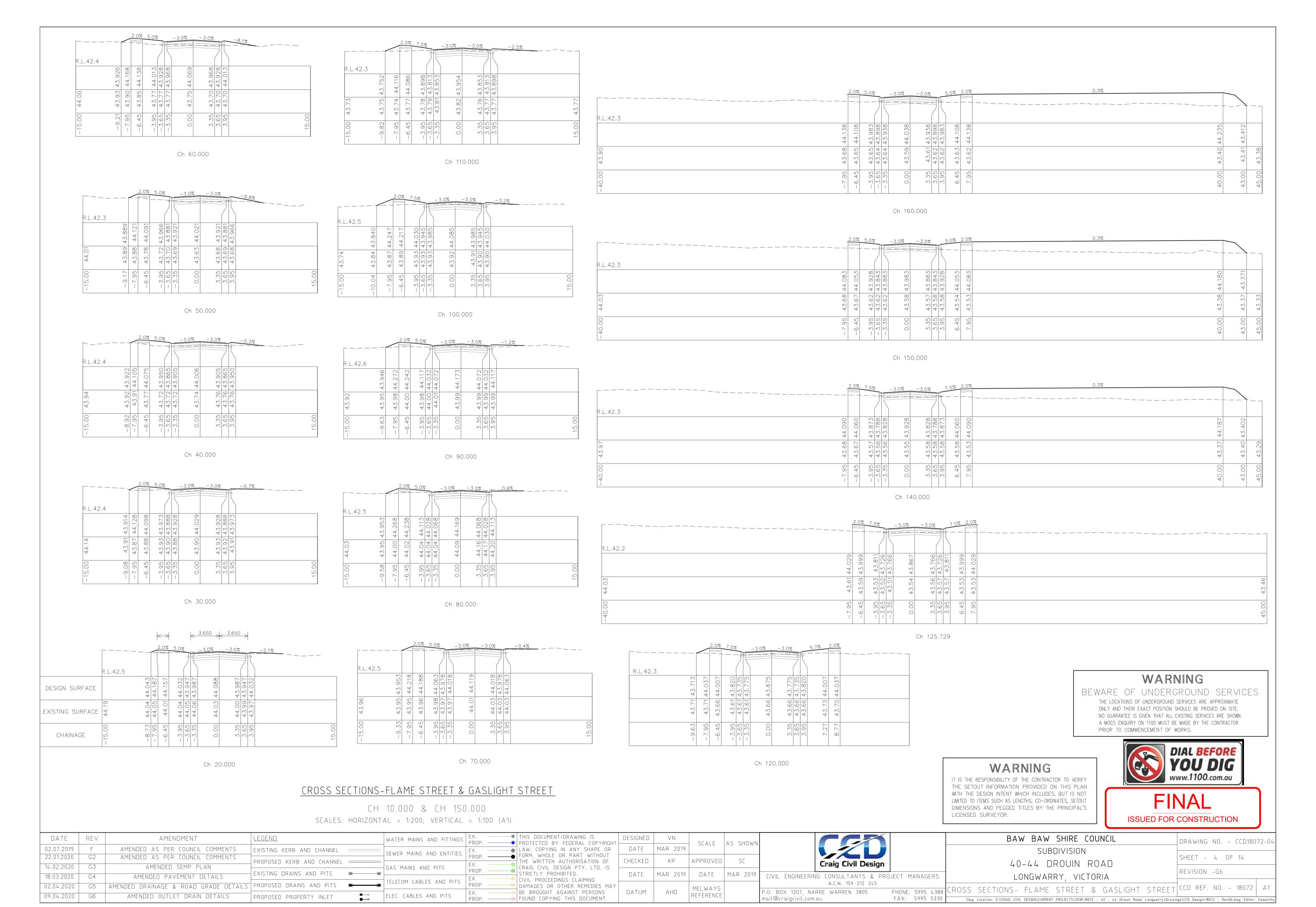
/ DESIGN SURFACE 670 (LIP OF KERB)

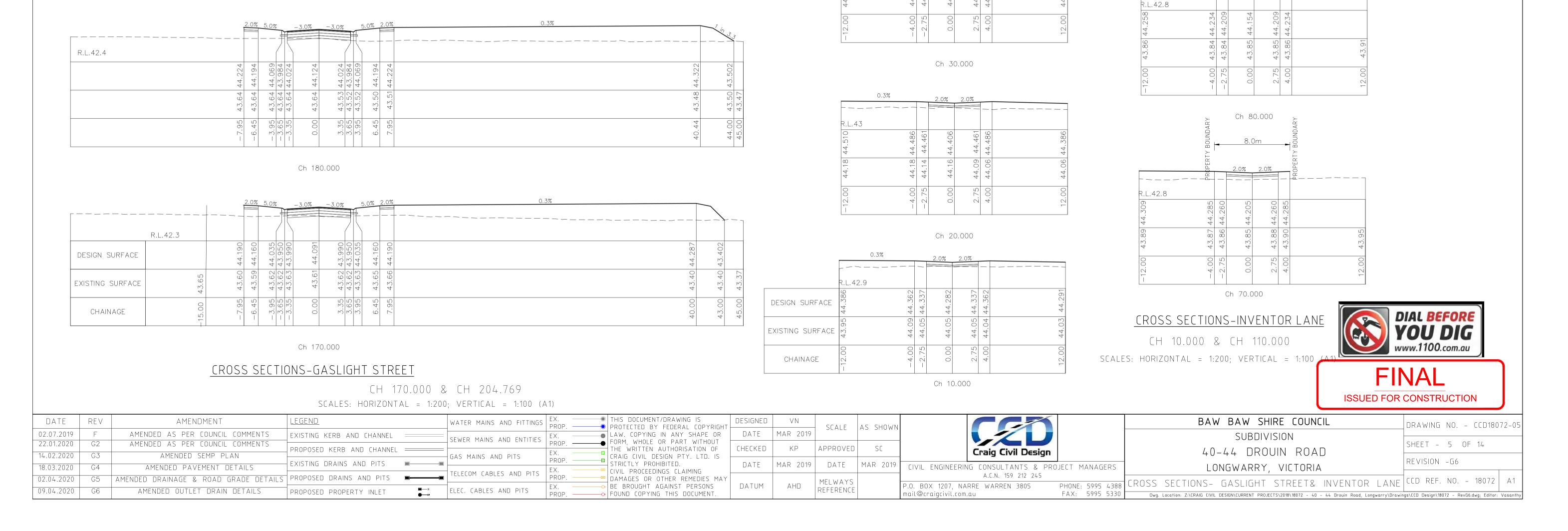
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DATE REV	AMENDMENT	LEGEND	WATER MAINS AND FITTINGS EX. PROP.	THIS DOCUMENT/DRAWING IS PROTECTED BY FEDERAL COPYRIGHT	DESIGNED	VN	AS SHOWN	CED	BAW BAW SHIRE COUNCIL	DRAWING NO CCD18072-03
02.07.2019 F	AMENDED AS PER COUNCIL COMMENTS	EXISTING KERB AND CHANNEL	SEWER MAINS AND ENTITIES EX.	LAW. COPYING IN ANY SHAPE OR	DATE M	1AR 2019	7(3 3110 W1V		SUBDIVISION	
22.01.2020 G2	AMENDED AS PER COUNCIL COMMENTS AMENDED SEMP PLAN	PROPOSED KERB AND CHANNEL	GAS MAINS AND PITS EX. FROP.	THE WRITTEN AUTHORISATION OF	CHECKED	KP APPROVED	SC	Craig Civil Design	40-44 DROUIN ROAD	SHEET - 3 OF 14
18.03.2020 G4	AMENDED PAVEMENT DETAILS	EXISTING DRAINS AND PITS	GAS MAINS AND PITS PROP.	STRICTLY PROPIETED.	DATE M	1AR 2019 DATE	MAR 2019	CIVIL ENGINEERING CONSULTANTS & PROJECT MANAGERS	LONGWARRY, VICTORIA	REVISION -G6
02.04.2020 G5 /	AMENDED DRAINAGE & ROAD GRADE DETAILS	PROPOSED DRAINS AND PITS	TELECOM CABLES AND PITS PROP.	DAMAGES OR OTHER REMEDIES MAY		MFI WAYS		A.C.N. 159 212 245	LONGITUDINAL SECTION -ROADS & KERBRETURNS	
09.04.2020 G6	AMENDED OUTLET DRAIN DETAILS	PROPOSED PROPERTY INLET	ELEC. CABLES AND PITS EX. PROP.	——• BE BROUGHT AGAINST PERSONS ——• FOUND COPYING THIS DOCUMENT.	DATUM	AHD MELWAYS REFERENCE		P.O. BOX 120/, NARRE WARREN 3805 PHONE: 5995 4388 mail@craigcivil.com.au FAX: 5995 5330	Dwg. Location: Z:\CRAIG CIVIL DESIGN\CURRENT PROJECTS\2018\18072 - 40 - 44 Drouin Road, Longwarry\Drav	wings\CCD Design\18072 - RevG6.dwg; Editor: Vasanthy





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Ch 40.000

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Ch 110.000

Ch 100.000

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R.L.43

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-7.95 -6.45 -3.95 -3.35

R.L.42.3

R.L.42.3



EXISTING BUILDING & LAND - 1600m²

DEVELOPMENT SITE – 18700m² (including future stage 1215m²)

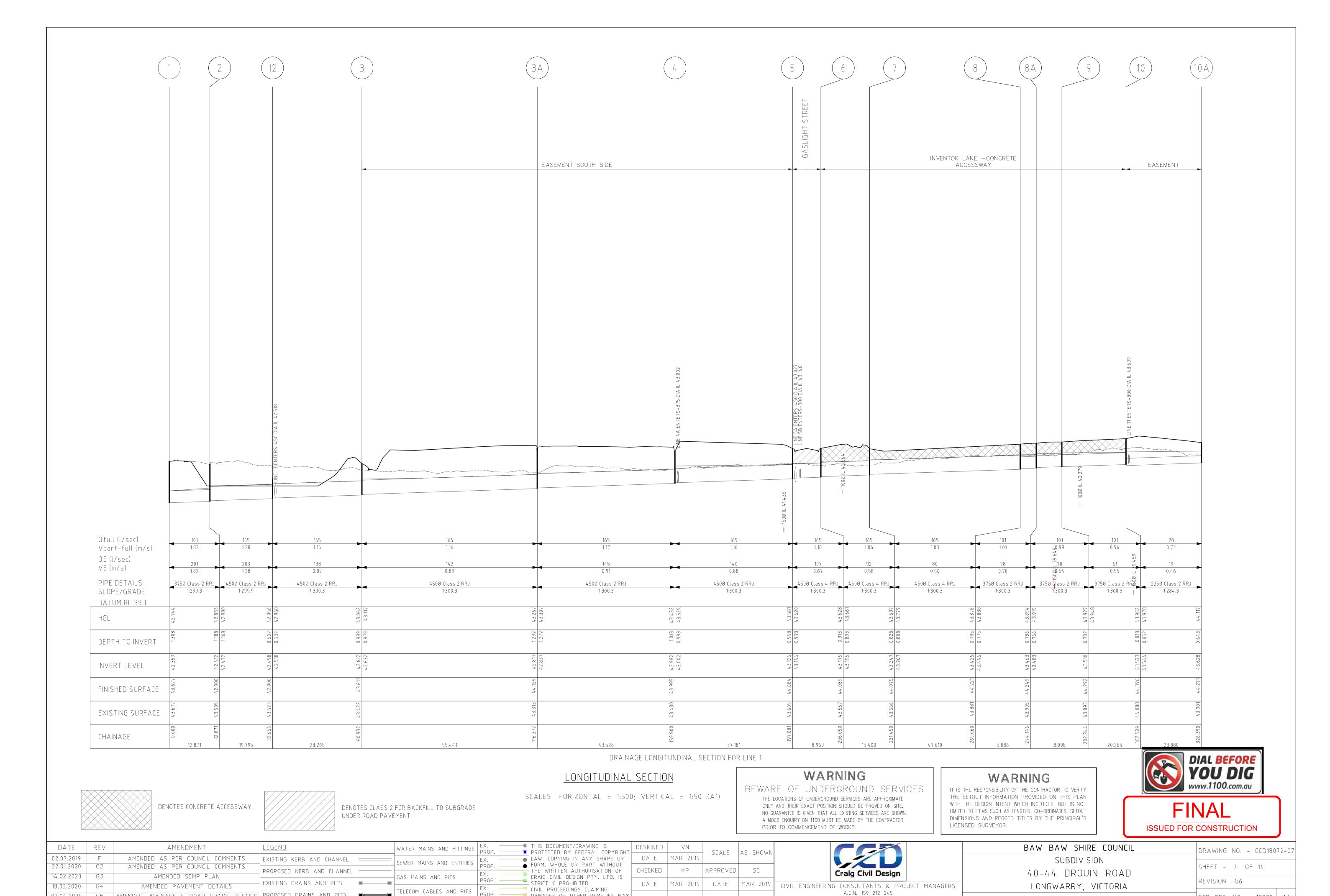
CATCHMENT PLAN

SCALE 1:500 (A1)





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02.07.2019	F	AMENDED AS PER COUNCIL COMMENTS AMENDED AS PER COUNCIL COMMENTS	EXISTING KERB AND CHANNEL	SEWER MAINS AND ENTITIES	S EX. LAW. COPYING IN ANY SHAPE OF THE PROPERTY OF THE PROPERT	DATE	MAR 2019	36/122			SUBDIVISION	
14.02.2020	GZ G3	AMENDED SEMP PLAN	PROPOSED KERB AND CHANNEL =	= GAS MAINS AND PITS	EX. THE WRITTEN AUTHORISATION OF CRAIG CIVIL DESIGN PTY. LTD. I	CHECKED	KP	APPROVED	SC Craig Civil D	esign esign	40-44 DROUIN ROAD	SHEET - 6 OF 14
18.03.2020		AMENDED PAVEMENT DETAILS	EXISTING DRAINS AND PITS	das mains and mis	STRICTLY PROHIBITED.	DATE	MAR 2019	DATE	MAR 2019 CIVIL ENGINEERING CONSULTANTS	S & PROJECT MANAGERS	LONGWARRY, VICTORIA	REVISION -G6
02.04.2020	G5	AMENDED DRAINAGE & ROAD GRADE DETAILS	PROPOSED DRAINS AND PITS	TELECOM CABLES AND PITS	PROP. DAMAGES OR OTHER REMEDIES I	YAY DA TUM	ALID	MELWAYS	A.C.N. 159 212		CATCHMENT PLAN	CCD REF. NO 18072 A1
09.04.2020	G6	AMENDED OUTLET DRAIN DETAILS	PROPOSED PROPERTY INLET	ELEC. CABLES AND PITS	PROP. FOUND COPYING THIS DOCUMENT	DATOM	AHD	REFERENCE	P.O. BOX 1207, NARRE WARREN 380 mail@craigcivil.com.au	FAX: 5995 5330	Dwg. Location: Z:\CRAIG CIVIL DESIGN\CURRENT PROJECTS\2018\18072 - 40 - 44 Drouin Road, Longwarr	y\Drawings\CCD Design\18072 - RevG6.dwg; Editor: Vasanthy



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BE BROUGHT AGAINST PERSONS

FOUND COPYING THIS DOCUMENT.

ELEC. CABLES AND PITS

DATUM

MELWAYS

REFERENCE

AHD

P.O. BOX 1207, NARRE WARREN 3805

mail@craigcivil.com.au

PHONE: 5995 4388

FAX: 5995 5330

DRAINAGE -LONGITUDINAL SECTION, SHEET 1 OF 3

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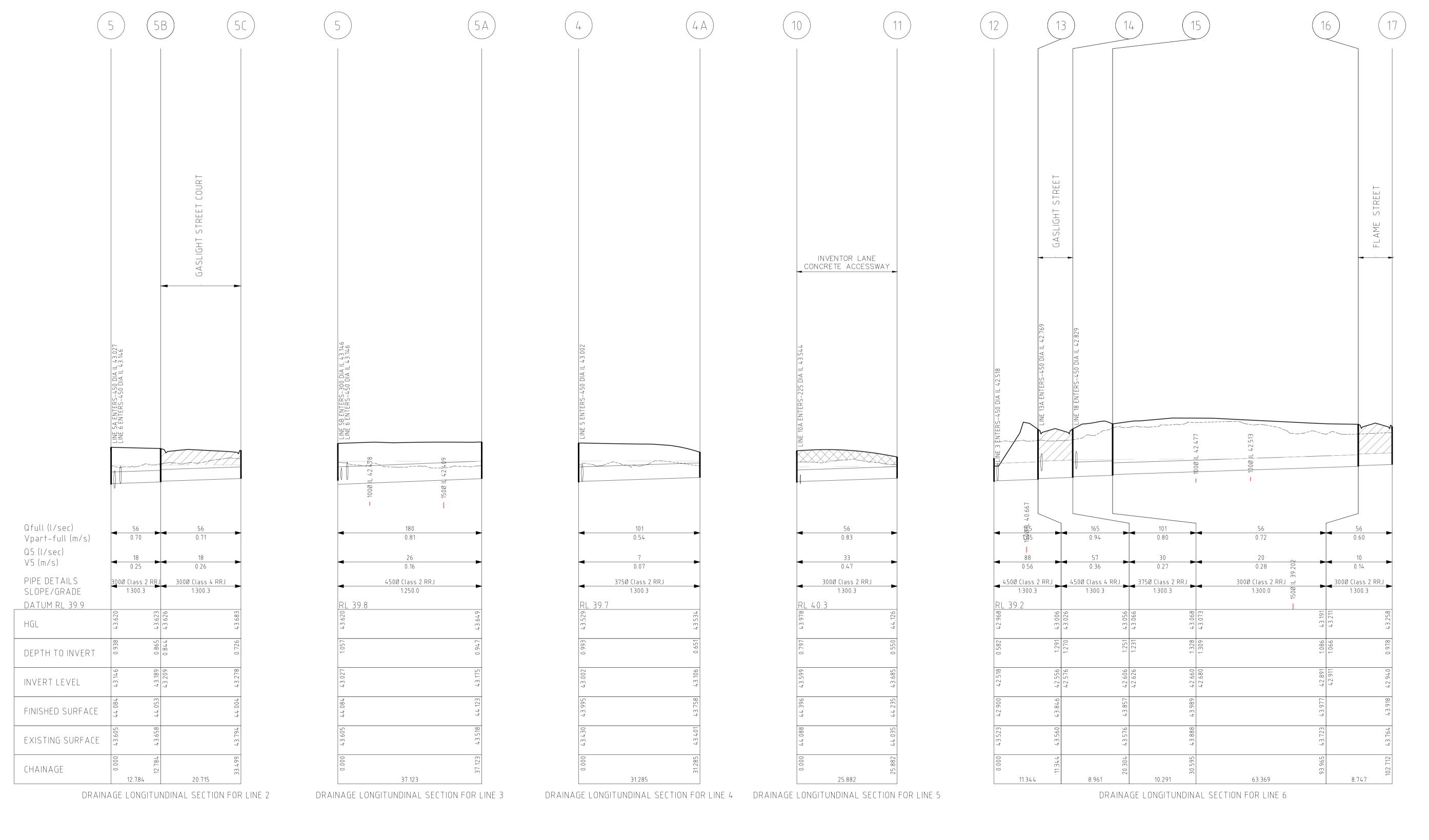
CCD REF. NO. - 18072

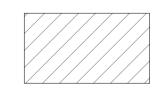
AMENDED DRAINAGE & ROAD GRADE DETAILS PROPOSED DRAINS AND PITS

PROPOSED PROPERTY INLET

AMENDED OUTLET DRAIN DETAILS

G5





DENOTES CLASS 2 FCR BACKFILL TO SUBGRADE UNDER ROAD PAVEMENT

DENOTES CONCRETE ACCESSWAY

LONGITUDINAL SECTION

SCALES: HORIZONTAL = 1:500; VERTICAL = 1:50 (A1)

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DATE REV	AMENDMENT	<u>LEGEND</u>	WATER MAINS AND FITTINGS PROP.	THIS DOCUMENT/DRAWING IS PROTECTED BY FEDERAL COPYRIGHT	DESIGNED	VN	CALE AS SHO	VN CETO	BAW BAW SHIRE COUNCIL	DRAWING NO CCD18072-08
02.07.2019 F	AMENDED AS PER COUNCIL COMMENTS	EXISTING KERB AND CHANNEL ======	SEWER MAINS AND ENTITIES EX.	LAW. COPYING IN ANY SHAPE OR	DATE	MAR 2019	7,13 3110		SUBDIVISION	
14.02.2020 G3	AMENDED AS PER COUNCIL COMMENTS AMENDED SEMP PLAN	PROPOSED KERB AND CHANNEL =====	GAS MAINS AND PITS EX. ————————————————————————————————————	THE WRITTEN AUTHORISATION OF	CHECKED	KP API	PROVED SC	Craig Civil Design	40-44 DROUIN ROAD	SHEET - 8 OF 14
18.03.2020 G4		EXISTING DRAINS AND PITS	PROP. —	STRICTLY PROHIBITED.	DATE	MAR 2019 [DATE MAR 20	19 CIVIL ENGINEERING CONSULTANTS & PROJECT MAN	LONGWARRY, VICTORIA	REVISION -G6
02.04.2020 G5	AMENDED DRAINAGE & ROAD GRADE DETAILS	PROPOSED DRAINS AND PITS	TELECOM CABLES AND PITS PROP.	DAMAGES OR OTHER REMEDIES MAY	DATIM	ME ME	_WAYS	A.C.N. 159 212 245 P.O. BOX 1207 NARRE WARREN 3805 PHONE: 5	DDAINIACE LONGITUDINIAL SECTION SUITET 2 OF	3 CCD REF. NO 18072 A1
09.04.2020 G6	AMENDED OUTLET DRAIN DETAILS	PROPOSED PROPERTY INLET	ELEC. CABLES AND PITS EX. PROP.	FOUND COPYING THIS DOCUMENT.	DATUM	AHD REF	ERENCE	mail@craigcivil.com.au FAX: 5	995 5330 Dwg. Location: Z:\CRAIG CIVIL DESIGN\CURRENT PROJECTS\2018\18072 - 40 - 44 Drouin Road, Longwo	arry\Drawings\CCD Design\18072 - RevG6.dwg; Editor: Vasanthy

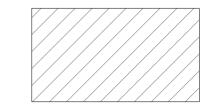
Qfull (l/sec) 0.76 0.75 Vpart-full (m/s) Q5 (l/sec) 0.14 V5 (m/s) PIPE DETAILS 450Ø Class 2 RRJ 450Ø Class 2 RRJ SLOPE/GRADE 1:256.9 1:277.2 DATUM RL 39.6 RL 39.5 HGL DEPTH TO INVERT INVERT LEVEL FINISHED SURFACE EXISTING SURFACE 5

DRAINAGE LONGITUNDINAL SECTION FOR LINE 7

DRAINAGE LONGITUNDINAL SECTION FOR LINE 8

LONGITUDINAL SECTION

SCALES: HORIZONTAL = 1:500; VERTICAL = 1:50 (A1)



DENOTES CLASS 2 FCR BACKFILL TO SUBGRADE UNDER ROAD PAVEMENT

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DATE RE	EV AMENDMENT	LEGEND	WATER MAINS AND FITTINGS EX.	THIS DOCUMENT/DRAWING IS PROTECTED BY FEDERAL COPYRIGHT	DESIGNED VN	SCALE AS SHOW!		BAW BAW SHIRE COUNCIL	DRAWING NO CCD18072-9
02.07.2019 F	AMENDED AS PER COUNCIL COM		SEWER MAINS AND ENTITIES EX.	LAW. COPYING IN ANY SHAPE OR	DATE MAR 201	9		SUBDIVISION	
14 02 2020 G2	2 AMENDED AS PER COUNCIL COM 3 AMENDED SEMP PLAN	PROPOSED KERB AND CHANNEL ======	GAS MAINS AND PITS EX.	THE WRITTEN AUTHORISATION OF	CHECKED KP	APPROVED SC	Craig Civil Design	40-44 DROUIN ROAD	SHEET - 9 OF 14
18.03.2020 G ²	4 AMENDED PAVEMENT DETAIL	S EXISTING DRAINS AND PITS	PROP.	STRICTLY PROHIBITED.	DATE MAR 201	9 DATE MAR 2019	CIVIL ENGINEERING CONSULTANTS & PROJECT MANAGERS	LONGWARRY, VICTORIA	REVISION -G6
02.04.2020 G5	5 AMENDED DRAINAGE & ROAD GRAD	DETAILS PROPOSED DRAINS AND PITS	TELECOM CABLES AND PITS PROP.	DAMAGES OR OTHER REMEDIES MAY		MELWAYS	A.C.N. 159 212 245	DRAINAGE -LONGITUDINAL SECTION, SHEET 3 OF 3	CCD REF. NO 18072 A1
09.04.2020 G6	6 AMENDED OUTLET DRAIN DET	PROPOSED PROPERTY INLET	ELEC. CABLES AND PITS EX. PROP.	OF FOUND COPYING THIS DOCUMENT.	DATUM AHD	MELWAYS REFERENCE	P.O. BOX 1207, NARRE WARREN 3805 PHONE: 5995 4388 mail@craigcivil.com.au FAX: 5995 5330	Dwg. Location: Z:\CRAIG CIVIL DESIGN\CURRENT PROJECTS\2018\18072 - 40 - 44 Drouin Road, Longwarry\Drawi	

					Pit S	ched	ule -	drair	age3			
Pit No.	Pit Type	Pit Width	Pit Length	Outlet Diameter	Outlet Invert RL	Inlet Diameter	Inlet Invert RL	Pit Depth	Pit Lid Level	Easting	Northing	Comment
		(mm)	(mm)	(mm)	(m)	(mm)	(m)	(m)	(m)	(m)	(m)	
1	JUNCTION PIT	900	600			375	42.369	1.308	43.677	392673.76	5781178.234	INSTALL A NEW JUNCTION INTO EXISTING 525¢PIPE, AS PER IDM SD 425
2	DETENTION PIT/ORIFICE PIT	600	1350	375	42.412	450	42.432	1.188	43.600	392679.48	5781189.765	AS PER COUNCIL STANDARD
12	GRATED PIT	900	900	450	42.498	450 450	42.518 42.518	0.602	43.100	392680.66	5781209.525	AS PER COUNCIL STANDARD
3	GRATED JUNCTION PIT -EASEMENT	900	900	450	42.612	450	42.632	0.999	43.611	392700.04	5781188.956	AS PER COUNCIL STANDARD
13	SIDE ENTRY PIT	900	900	450	42.556	450	42.576	1.291	43.846	392680.00	5781220.850	REFER IDM STANDARD DRAWING SD 440
						450	42.769					
3A	GRATED JUNCTION PIT -EASEMENT	900	900	450	42.817	450	42.837	1.292	44.109	392751.41	5781209.814	AS PER COUNCIL STANDARD
14	SIDE ENTRY PIT	900	900	450	42.606	450	42.829	1.251	43.857	392676.41	5781229.061	REFER IDM STANDARD DRAWING SD 440
						375	42.626					
13 A	SIDE ENTRY PIT	900	600	450	42.913			1.115	44.028	392717.02	5781235.775	REFER IDM STANDARD DRAWING SD 440
4	GRATED JUNCTION PIT -EASEMENT	900	900	450	42.982	450	43.002	1.013	43.995	392783.91	5781238.766	AS PER COUNCIL STANDARD
						375	43.002					
18	SIDE ENTRY PIT	900	600	450	43.028			1.052	44.080	392723.88	5781248.075	REFER IDM STANDARD DRAWING SD 440
15	SIDE ENTRY PIT	600	900	375	42.660	300	42.680	1.328	43.989	392666.75	5781232.598	REFER IDM STANDARD DRAWING SD 440
5	SIDE ENTRY PIT	900	900	450	43.126	300	43.146	0.958	44.084	392759.10	5781266.455	REFER IDM STANDARD DRAWING SD 440
						450 450	43.146					
4 A	GRATED JUNCTION PIT -EASEMENT	600	600	375	43.106	400	43.027	0.651	43.758	392807.18	5781259.676	AS PER COUNCIL STANDARD
16	SIDE ENTRY PIT	600	900	300	42.891	300	42.911	1.086	43.977	392643.11	5781291.394	REFER IDM STANDARD DRAWING SD 440
5B	SIDE ENTRY PIT	600	900	300	43.189	300	43.209	0.865	44.053	392768.72	5781274.876	REFER IDM STANDARD DRAWING SD 440
6	SIDE ENTRY PIT	900	900	450	43.176	450	43.196	0.913	44.089	392751.98	5781271.918	REFER IDM STANDARD DRAWING SD 440
5A	JUNCTION PIT -ROAD RESERVE	900	600	450	43.175			0.947	44.123	392731.64	5781241.468	REFER IDM STANDARD DRAWING SD 420
17	SIDE ENTRY PIT	600	900	300	42.940			0.978	43.918	392635.06	5781287.984	REFER IDM STANDARD DRAWING SD 440
50	SIDE ENTRY PIT	600	900	300	43.278			0.726	44.004	392771.81	5781295.358	REFER IDM STANDARD DRAWING SD 440
7	GRATED PIT - CONCRETE ACCESSWAY	900	900	450	43.247	450	43.267	0.828	44.075	392737.77	5781265.990	AS PER COUNCIL STANDARD , GRATE TO BE CLASS B "BICYCLE SAFE"
8	GRATED PIT - CONCRETE ACCESSWAY	900	600	450	43.426	375	43.446	0.795	44.221	392710.38	5781304.934	AS PER COUNCIL STANDARD , GRATE TO BE CLASS B "BICYCLE SAFE"
8A	JUNCTION PIT - CONCRETE ACCESSWAY	600	600	375	43.463	375	43.483	0.786	44.249	392706.09	5781307.662	AS PER COUNCIL STANDARD
9	GRATED PIT - CONCRETE ACCESSWAY	600	600	375	43.510	375	43.510	0.782	44.292	392698.14	5781306.123	AS PER COUNCIL STANDARD , GRATE TO BE CLASS B "BICYCLE SAFE"
10	GRATED PIT - CONCRETE ACCESSWAY	600	600	375	43.577	225	43.544	0.818	44.396	392680.41	5781296.316	AS PER COUNCIL STANDARD , GRATE TO BE CLASS B "BICYCLE SAFE"
						300	43.599					
10 A	GRATED JUNCTION PIT -EASEMENT	600	600	225	43.628			0.643	44.271	392689.41	5781274.197	AS PER COUNCIL STANDARD
11	GRATED PIT - CONCRETE ACCESSWAY	600	600	300	43.685			0.550	44.235	392658.14	5781283.115	AS PER COUNCIL STANDARD , GRATE TO BE CLASS B "BICYCLE SAFE"

	Cato	hmei	nt Hy	drolo T		drain	age3	Re	turn F	Perio	d: 5yr	S L	ocat	ion: M	1elbou	ırne
Pipe ID	Total Area	Co-efficient of Runoff	Equivalent Areas	Total Equivalent Areas	atchment Overland Flow Time	Pipe Flow Time	Time of Concentration	Pipe Rainfall Intensity	Total Pipe Flow	Pipe Diameter	Pipe Mannings "n"	Pipe Grade	Pipe Capacity	Velocity Part Full	Pipe Length	Remarks
	///-)		(11-)	///->	(-:-)	(-:-)	(-:-)	/ /b-\	(1.7.)	()		1:-	// /- \	(- (-)	(-)	
2 1	(Ha)		(Ha)	(Ha)	(min)	(min)	(min)	(mm/hr)	(l/s)	(mm)	0.013	1 in	(l/s)	(m/s)	(m)	
2-1 12-2				1.329		0.118	15.60 15.34	54.52 55.01	201.300	375 450	0.013	299.3 299.9	101.340	1.823	12.9 19.8	
3–12				0.891		0.406	14.94	55.77	138.092	450	0.013	300.3	164.524	1.159	28.3	
13-12	0.065	0.75	0.049	0.438		0.179	8.08	72.68	88.361	450	0.013	300.3	164.524	1.054	11.3	
	0.036	0.75	0.027		6.000											
	0.029	0.75	0.022		6.000											
3A-3				0.891		0.794	14.14	57.25	141.769	450	0.013	300.3	164.524	1.164	55.4	
14 – 13	0.050	0.75	0.038	0.281	(000	0.159	7.92	73.32	57.126	450	0.013	300.3	164.524	0.940	9.0	
	0.041	0.75	0.031		5.000											
13A-13	0.009	0.75	0.007	0.108	٥٠٥٥ د	0.883	6.85	77.59	23.366	450	0.013	277.2	171.242	0.753	39.9	
	0.013	0.75	0.010	1	5.000		3.33			. = 0			,2			
	0.153	0.64	0.099		6.718											
4-3A				0.891		0.622	13.52	58.41	144.648	450	0.013	300.3	164.524	1.167	43.5	
18 – 14	0.130	0.75	0.098	0.098		1.120	6.00	81.00	21.938	450	0.013	256.9	177.866	0.761	51.1	
	0.019	0.75	0.014		5.000											
	0.111	0.75	0.083		6.000											
15 – 14	0.074	0.75	0.056	0.146	6.000	0.215	7.71	74.17	29.979	375	0.013	300.3	101.176	0.799	10.3	
	0.016	0.75	0.014		6.000											
5-4	0.012	0.75	0.009	0.849	5.000	0.533	12.99	59.41	140.063	450	0.013	300.3	164.524	1.162	37.2	
4 A - 4	0.057	0.75	0.043	0.043	11.339	0.971	11.34	62.50	7.421	375	0.013	300.3	101.176	0.537	31.3	
16-15	0.061	0.75	0.046	0.090		1.462	6.24	80.02	20.005	300	0.013	300.0	55.827	0.723	63.4	
	0.026	0.75	0.020		6.000											
	0.035	0.75	0.026		6.000											
5B-5	0.405	0.70		0.081		0.303	6.49	79.04	17.785	300	0.013	300.3	55.802	0.703	12.8	
6-5	0.127	0.72	0.092	0.644	6.000	0.136	12.85	59.67	106.726	450	0.013	300.3	164.524	1.101	9.0	
	0.027	0.75	0.020		5.000											
	0.070	0.70	0.049		6.000											
5A-5	0.153	0.75	0.115	0.115	6.000	0.769	6.00	81.00	25.819	450	0.013	250.0	180.317	0.805	37.1	
10 – 9	0.060	0.78	0.047	0.279		0.352	6.55	78.82	61.171	375	0.013	300.3	101.176	0.959	20.3	
	0.051	0.75	0.038		6.000											
	0.009	0.95	0.009		5.000											
5C-5B	0.108	0.75	0.081	0.081	(0 0 0	0.489	6.00	81.00	18.225	300	0.013	300.3	55.802	0.706	20.7	
	0.045	0.75	0.034		6.000											
7-6	0.063	0.75	0.047	0.552	0.000	0.241	12.61	60.12	92.212	450	0.013	300.3	164.524	1.064	15.4	
-	0.042	0.95	0.040		6.000		,						= 7			
	0.060	0.75	0.045		6.000											
8-7	0.084	0.72	0.061	0.467		0.773	11.84	61.56	79.910	450	0.013	300.3	164.524	1.027	47.6	
	0.007	0.95	0.007		5.000											
0 4 0	0.077	0.70	0.054	0.707	11.839	0.007	0.40	(0/0	77 5 00	סקר	0.042	2002	101 177	1.040	ГЛ	
9-8A	0.160	0.50	0.080	0.407	9.100	0.084	9.10	68.60 77.41	77.508	375 375	0.013	300.3	101.176	0.989	5.1 8.1	
, ,,	0.003	0.73	0.047	0.221	5.000	0.1.0	3.70	, , . + 1	10.237	<u> </u>	0.01	د.٠٠٠	701.170	0.707	5.1	
	0.050	0.70	0.035		6.260											
10 A – 10	0.113	0.75	0.085	0.085		0.546	6.00	81.00	19.069	225	0.013	284.3	27.912	0.730	23.9	
	0.052	0.75	0.039		6.000											
	0.061	0.75	0.046		6.000											
11–10	0.191	0.77	0.148	0.148		0.522	6.00	81.00	33.266	300	0.013	300.3	55.802	0.826	25.9	
	0.023	0.95	0.022		6.000											
17 – 16	0.168	0.75	0.126	0.044	6.000	0.245	6.00	81.00	9.956	300	0.013	300.3	55.802	0.596	8.7	
., 10	0.039	0.75	0.044	0.074	6.000	J	0.00	31.00	7.730		0.019		JJ.002	0.570	0.7	
	0.00				1	I .	I.	1	1		1	1	I.	I .	1	

	Catcl	nmen	t Hyd	rolog	y - d	raina	ge3	Ret	urn P	eriod	: 100y	yΓS	Loca	tion:	Melbo	ourne
Pipe ID	Total Area	Co-efficient of Runoff	Equivalent Areas	Total Equivalent Areas	Catchment Overland Flow Time	Pipe Flow Time	Time of Concentration	Pipe Rainfall Intensity	Total Pipe Flow	Pipe Diameter	Pipe Mannings "n"	Pipe Grade	Pipe Capacity	Velocity Part Full	Pipe Length	Remarks
	(Ha)		(Ha)	(Ha)	(min)	(min)	(min)	(mm/hr)	(l/s)	(mm)		1 in	(l/s)	(m/s)	(m)	
2-1				1.355		0.049	11.57	129.57	487.719	375	0.013	299.3	101.340	4.416	12.9	
12-2				1.355		0.107	11.46	130.01	489.374	450	0.013	299.9	164.627	3.077	19.8	
3-12				0.891		0.231	11.23	130.96	324.284	450	0.013	300.3	164.524	2.039	28.3	
13-12	0.065	0.75	0.049	0.464		0.150	7.72	155.92	200.805	450	0.013	300.3	164.524	1.263	11.3	
	0.036	0.75	0.027		6.000											
	0.029	0.75	0.022	0.004	6.000	0.445	40.50	420.50	700 004		0.047	2002	144 504	0.045	55.4	
3A-3 14-13	0.050	0.75	0.038	0.891		0.447	10.78 7.59	132.79	328.821 122.387	450 450	0.013	300.3	164.524	2.067	55.4 9.0	
	0.030	0.75	0.030	0.201	6.000	0.152	1.37	107.07	122.307	400	0.015	0.00.	104.524	1.154	7.0	
	0.009	0.75	0.007		5.000											
13A-13	0.166	0.81	0.134	0.134		0.655	5.13	182.25	68.031	450	0.013	277.2	171.242	1.015	39.9	
	0.013	0.75	0.010		5.000											
	0.153	0.81	0.125		5.000											
4-3A				0.891		0.347	10.44	134.21	332.346	450	0.013	300.3	164.524	2.090	43.5	
18-14	0.130	0.75	0.098	0.098		0.907	6.00	171.00	46.313	450	0.013	256.9	177.866	0.940	51.1	
	0.019	0.75	0.014		5.000											
15 – 14	0.111	0.75	0.083	0.146	6.000	0.177	7.41	158.62	64.110	375	0.013	300.3	101.176	0.969	10.3	
15-14	0.018	0.75	0.014	0.140	6.000	0.177	7.41	150.02	04.110	010	0.015	0.00.5	101.170	0.707	10.5	
	0.056	0.75	0.042		6.000											
5-4	0.012	0.75	0.009	0.849	5.000	0.309	10.13	135.48	319.391	450	0.013	300.3	164.524	2.008	37.2	
4-4-4	0.057	0.75	0.043	0.043	7.883	0.752	7.88	154.52	18.350	375	0.013	300.3	101.176	0.694	31.3	
16 – 15	0.061	0.75	0.046	0.090		1.216	6.20	169.26	42.316	300	0.013	300.0	55.827	0.868	63.4	
	0.026	0.75	0.020		6.000											
	0.035	0.75	0.026	0.004	6.000	0.054	(/ 0	167.16	27 (70	200	0.042	2002	FF 000	0.047	12.0	
5B-5 6-5	0.127	0.72	0.092	0.081		0.251	6.40	167.46	37.678 243.055	300 450	0.013	300.3	55.802 164.524	0.847	9.0	
	0.027	0.75	0.020	0.044	6.000	0.070	10.03	133.00	243.033	430	0.015	300.5	104.324	1.320	7.0	
	0.030	0.75	0.023		5.000											
	0.070	0.70	0.049		6.000											
5A-5	0.153	0.75	0.115	0.115	6.000	0.623	6.00	171.00	54.506	450	0.013	250.0	180.317	0.993	37.1	
10 – 9	0.060	0.78	0.047	0.279		0.287	6.43	167.20	129.767	375	0.013	300.3	101.176	1.175	20.3	
	0.051	0.75	0.038		6.000											
5C-5B	0.009	0.95	0.009	0.081	5.000	0.405	6.00	171.00	38.475	300	0.013	300.3	55.802	0.853	20.7	
JC-JD	0.106	0.75	0.034	0.001	6.000	0.405	6.00	171.00	30.473	300	0.013	300.3	33.002	0.055	20.1	
	0.063	0.75	0.047		6.000											
7-6	0.102	0.83	0.085	0.552		0.194	9.84	137.44	210.814	450	0.013	300.3	164.524	1.326	15.4	
	0.042	0.95	0.040		6.000											
	0.060	0.75	0.045		6.000											
8-7	0.084	0.72	0.061	0.467		0.678	9.16	143.37	186.104	450	0.013	300.3	164.524	1.170	47.6	
	0.007	0.95	0.007		5.000											
8A-8	0.077	0.70	0.054	0.407	9.100	0.058	9.10	143.88	162.559	375	0.013	300.3	101.176	1.472	5.1	
9-8A	0.063	0.75	0.047	0.327	7.100	0.100	6.72	164.69	149.475	375	0.013	300.3	101.176	1.353	8.1	
	0.013	0.95	0.012		5.000											
	0.050	0.70	0.035		5.000											
10 A – 10	0.113	0.75	0.085	0.085		0.407	6.00	171.00	40.256	225	0.013	284.3	27.912	0.977	23.9	
	0.052	0.75	0.039		6.000											
44.40	0.061	0.75	0.046	0.410	6.000	0.15:		404.00	70000	200	0.015	300 -	EE 000	0.00:	05.0	
11–10	0.191	0.77	0.148	0.148	6 000	0.434	6.00	171.00	70.229	300	0.013	300.3	55.802	0.994	25.9	
	0.023	0.95	0.022		6.000											
17 – 16	0.059	0.75	0.044	0.044	3,000	0.199	6.00	171.00	21.019	300	0.013	300.3	55.802	0.734	8.7	
	0.024	0.75	0.018		6.000											
		<u> </u>	0.026		6.000											

WARNING

BEWARE OF UNDERGROUND SERVICES

THE LOCATIONS OF UNDERGROUND SERVICES ARE APPROXIMATE
ONLY AND THEIR EXACT POSITION SHOULD BE PROVED ON SITE.

NO GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN.
A MOCS ENQUIRY ON 1100 MUST BE MADE BY THE CONTRACTOR
PRIOR TO COMMENCEMENT OF WORKS.

WARNING

IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY
THE SETOUT INFORMATION PROVIDED ON THIS PLAN
WITH THE DESIGN INTENT WHICH INCLUDES, BUT IS NOT
LIMITED TO ITEMS SUCH AS LENGTHS, CO-ORDINATES, SETOUT
DIMENSIONS AND PEGGED TITLES BY THE PRINCIPAL'S
LICENSED SURVEYOR.



											ISSUED FC	R CONSTRUCTION
DATE	REV	AMENDMENT	LEGEND	WATER MAINS AND FITTINGS EX.	THIS DOCUMENT/DRAWING IS P PROTECTED BY FEDERAL COPYRIGHT	DESIGNED	VN	AS SHOWN		BAW BAW SHIRE COUNC	IL	DRAWING NO CCD18072-10
02.07.2019 22.01.2020	F	AMENDED AS PER COUNCIL COMMENTS AMENDED AS PER COUNCIL COMMENTS	EXISTING KERB AND CHANNEL	SEWER MAINS AND ENTITIES EX.	LAW. COPYING IN ANY SHAPE OR FORM, WHOLE OR PART WITHOUT	DATE	MAR 2019			SUBDIVISION		SHEET - 10 OF 14
14.02.2020	G2 G3	AMENDED SEMP PLAN	PROPOSED KERB AND CHANNEL	= GAS MAINS AND PITS EX.	THE WRITTEN AUTHORISATION OF CRAIG CIVIL DESIGN PTY. LTD. IS	CHECKED	KP APPROVED	SC	Craig Civil Design	40-44 DROUIN ROA		
18.03.2020		AMENDED PAVEMENT DETAILS	EXISTING DRAINS AND PITS	TELECOM CABLES AND PITS EX.	STRICTLY PROHIBITED. CIVIL PROCEEDINGS CLAIMING	DATE	MAR 2019 DATE	MAR 2019	CIVIL ENGINEERING CONSULTANTS & PROJECT MANAGERS	LONGWARRY, VICTORIA		REVISION -G6
02.04.2020	1	AMENDED DRAINAGE & ROAD GRADE DETAILS AMENDED OUTLET DRAIN DETAILS	PROPOSED DRAINS AND PITS	ELEC. CABLES AND PITS EX.	P. DAMAGES OR OTHER REMEDIES MAY BE BROUGHT AGAINST PERSONS	DATUM	AHD MELWAYS REFERENCE		A.C.N. 159 212 245 P.O. BOX 1207, NARRE WARREN 3805 PHONE: 5995 4388	Q5 & Q100 FLOW COMPUTA	TIONS	CCD REF. NO 18072 A1
07.04.2020	GO	AMENDED OUTLET DRAIN DETAILS	PROPOSED PROPERTY INLET	PROI	P. —————— FOUND COPYING THIS DOCUMENT.				mail@craigcivil.com.au FAX: 5995 5330	Dwg. Location: Z:\CRAIG CIVIL DESIGN\CURRENT PROJECTS\2018\18072 - 40	- 44 Drouin Road, Longwarry\D	rawings\CCD Design\18072 - RevG6.dwg; Editor: Vasanthy

