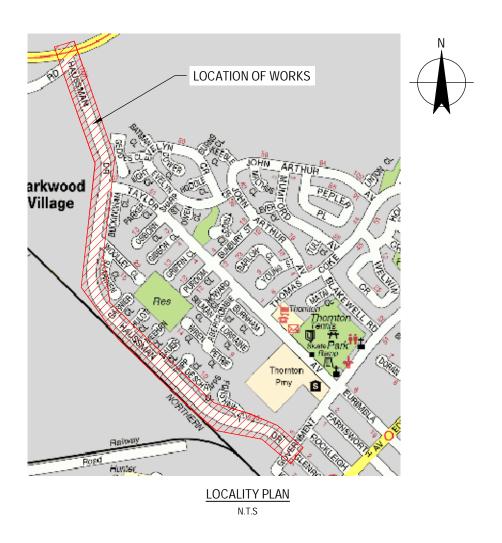
MAITLAND CITY COUNCIL HAUSSMAN DRIVE ROAD UPGRADE CONCEPT DESIGN 22-18378



PRELIMINARY

С	FINAL CONCEPT DESIGN	RJC	G.M	A.S	06.10.17
В	FINAL CONCEPT DESIGN	C.B	G.M	A.S	15.09.17
Α	ISSUED FOR REVIEW	C.B	G.M	A.S	13.07.17
No	Revision Note: * indicates signatures on original issue of drawing or last revision of drawing	Drawn	Job Manager	Project Director	Date

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MAITLAND CITY COUNCIL HAUSSMAN DRIVE ROAD UPGRADE COVER SHEET AND DRAWING INDEX

Drawing No: 22-18378-C001

Rev: C

	DRAWING INDEX
SHEET No.	TITLE
22-18378-C001	COVER SHEET
22-18378-C002	DRAWING INDEX
22-18378-C003	GENERAL ARRANGEMENT PLAN
22-18378-C004	LEGEND
22-18378-C005	TYPICAL SECTIONS SHEET 1 OF 6
22-18378-C006	TYPICAL SECTIONS SHEET 2 OF 6
22-18378-C007	TYPICAL SECTIONS SHEET 3 OF 6
22-18378-C008	TYPICAL SECTIONS SHEET 4 OF 6
22-18378-C009	TYPICAL SECTIONS SHEET 5 OF 6
22-18378-C010	TYPICAL SECTIONS SHEET 6 OF 6
22-18378-C011	TYPCAIL PAVEMENT DETAILS
22-18378-C020	DETAIL PLAN AND LONGITUDINAL SECTION SHEET 1 OF 13
22-18378-C021	DETAIL PLAN AND LONGITUDINAL SECTION SHEET 2 OF 13
22-18378-C022	DETAIL PLAN AND LONGITUDINAL SECTION SHEET 3 OF 13
22-18378-C023	DETAIL PLAN AND LONGITUDINAL SECTION SHEET 4 OF 13
22-18378-C024	DETAIL PLAN AND LONGITUDINAL SECTION SHEET 5 OF 13
22-18378-C025	DETAIL PLAN AND LONGITUDINAL SECTION SHEET 6 OF 13
22-18378-C026	DETAIL PLAN AND LONGITUDINAL SECTION SHEET 7 OF 13
22-18378-C027	DETAIL PLAN AND LONGITUDINAL SECTION SHEET 8 OF 13
22-18378-C028	DETAIL PLAN AND LONGITUDINAL SECTION SHEET 9 OF 13
22-18378-C029	DETAIL PLAN AND LONGITUDINAL SECTION SHEET 10 OF 13
22-18378-C030	DETAIL PLAN AND LONGITUDINAL SECTION SHEET 11 OF 13
22-18378-C031	DETAIL PLAN AND LONGITUDINAL SECTION SHEET 12 OF 13
22-18378-C032	DETAIL PLAN AND LONGITUDINAL SECTION SHEET 13 OF 13
22-18378-C033	LONGITUDINAL SECTIONS - ROUNDABOUT NORTH AND SOUTH LEGS
22-18378-C040	DRAINAGE PLAN SHEET 1 OF 7
22-18378-C041	DRAINAGE PLAN SHEET 2 OF 7
22-18378-C042	DRAINAGE PLAN SHEET 3 OF 7
22-18378-C043	DRAINAGE PLAN SHEET 4 OF 7
22-18378-C044	DRAINAGE PLAN SHEET 5 OF 7
22-18378-C045	DRAINAGE PLAN SHEET 6 OF 7
22-18378-C046	DRAINAGE PLAN SHEET 7 OF 7
22-18378-C050	PAVEMENT PLAN SHEET 1 OF 7
22-18378-C051	PAVEMENT PLAN SHEET 2 OF 7
22-18378-C052	PAVEMENT PLAN SHEET 3 OF 7
22-18378-C053	PAVEMENT PLAN SHEET 4 OF 7
22-18378-C054	PAVEMENT PLAN SHEET 5 OF 7
22-18378-C055	PAVEMENT PLAN SHEET 6 OF 7
22-18378-C056	PAVEMENT PLAN SHEET 7 OF 7

DRAWING INDEX							
SHEET No.	TITLE						
22-18378-C060	UTILITIES PLAN SHEET 1 OF 7						
22-18378-C061	UTILITIES PLAN SHEET 2 OF 7						
22-18378-C062	UTILITIES PLAN SHEET 3 OF 7						
22-18378-C063	UTILITIES PLAN SHEET 4 OF 7						
22-18378-C064	UTILITIES PLAN SHEET 5 OF 7						
22-18378-C065	UTILITIES PLAN SHEET 6 OF 7						
22-18378-C066	UTILITIES PLAN SHEET 7 OF 7						
22-18378-C070	CROSS SECTIONS - HAUSSMAN DRIVE SHEET 1 OF 35						
22-18378-C071	CROSS SECTIONS - HAUSSMAN DRIVE SHEET 2 OF 35						
22-18378-C072	CROSS SECTIONS - HAUSSMAN DRIVE SHEET 3 OF 35						
22-18378-C073	CROSS SECTIONS - HAUSSMAN DRIVE SHEET 4 OF 35						
22-18378-C074	CROSS SECTIONS - HAUSSMAN DRIVE SHEET 5 OF 35						
22-18378-C075	CROSS SECTIONS - HAUSSMAN DRIVE SHEET 6 OF 35						
22-18378-C076	CROSS SECTIONS - HAUSSMAN DRIVE SHEET 7 OF 35						
22-18378-C077	CROSS SECTIONS - HAUSSMAN DRIVE SHEET 8 OF 35						
22-18378-C078	CROSS SECTIONS - HAUSSMAN DRIVE SHEET 9 OF 35						
22-18378-C079	CROSS SECTIONS - HAUSSMAN DRIVE SHEET 10 OF 35						
22-18378-C080	CROSS SECTIONS - HAUSSMAN DRIVE SHEET 11 OF 35						
22-18378-C081	CROSS SECTIONS - HAUSSMAN DRIVE SHEET 12 OF 35						
22-18378-C082	CROSS SECTIONS - HAUSSMAN DRIVE SHEET 13 OF 35						
22-18378-C083	CROSS SECTIONS - HAUSSMAN DRIVE SHEET 14 OF 35						
22-18378-C084	CROSS SECTIONS - HAUSSMAN DRIVE SHEET 15 OF 35						
22-18378-C085	CROSS SECTIONS - HAUSSMAN DRIVE SHEET 16 OF 35						
22-18378-C086	CROSS SECTIONS - HAUSSMAN DRIVE SHEET 17 OF 35						
22-18378-C087	CROSS SECTIONS - HAUSSMAN DRIVE SHEET 18 OF 35						
22-18378-C088	CROSS SECTIONS - HAUSSMAN DRIVE SHEET 19 OF 35						
22-18378-C089	CROSS SECTIONS - HAUSSMAN DRIVE SHEET 20 OF 35						
22-18378-C090	CROSS SECTIONS - HAUSSMAN DRIVE SHEET 21 OF 35						
22-18378-C091	CROSS SECTIONS - HAUSSMAN DRIVE SHEET 22 OF 35						
22-18378-C092	CROSS SECTIONS - HAUSSMAN DRIVE SHEET 23 OF 35						
22-18378-C093	CROSS SECTIONS - HAUSSMAN DRIVE SHEET 24 OF 35						

PRELIMINARY

С	FINAL CONCEPT DESIGN	RJC	GM	AS	06.10.17
В	FINAL CONCEPT DESIGN	C.B	G.M	A.S	15.09.17
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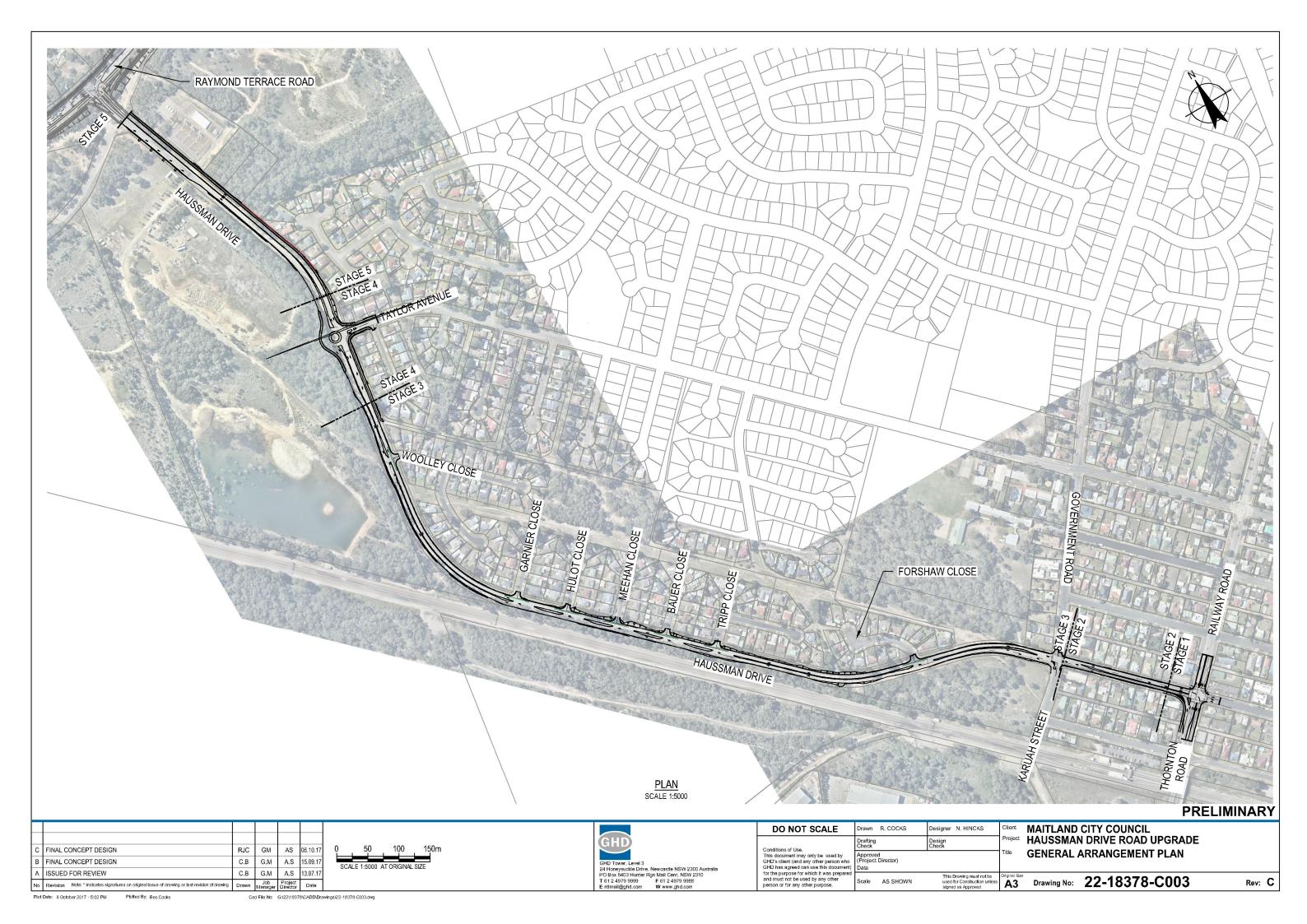
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MAITLAND CITY COUNCIL
HAUSSMAN DRIVE ROAD UPGRADE
DRAWING INDEX

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A3 Drawing No: 22-18378-C002

Rev: C



LEGEND: SURVEY

— E — — E — — PP PLP LP EXISTING POWER POLE; POWER LIGHTPOLE; LIGHTPOLE $\longrightarrow \longrightarrow \longrightarrow \longrightarrow$ ____T___T___

⊗ M a

—__s—_s—_

EXISTING CONTOURS

EXISTING ELECTRICITY WITH PILLAR BOX

EXISTING OPEN DRAIN EXISTING TELSTRA WITH PIT EXISTING WATER STOP VALVE; METER; HYDRANT EXISTING WATER PIPE

EXISTING SEWER WITH ACCESS CHAMBER

EXISTING BUILDING EXISTING FENCE EXISTING TREELINE

EXISTING TREE

EXISTING TREE TO BE REMOVED

EXISTING EXTENT OF PAVEMENT

DESIGN



PROPOSED PROPERTY ACQUISITION

DRAINAGE



Ø375 PIPE SIZE AND FLOW DIRECTION

111 STORMWATER PIT I.D AND TYPE

EXISTING STORMWATER PIT

□ □ ■ ■ NEW STORMWATER PIT

NEW HEADWALL WITH CONCRETE APRON

PAVEMEMT

TYPE 1 - UNBOUND PAVEMENT TYPE 2 - UNBOUND PAVEMENT

TYPE 4 - CONCRETE MEDIAN

WITH 2 COAT SEAL

TYPE 3 - CONCRETE ROUNDABOUT PAVEMENT

TYPE 5 - SHARED PATHWAY

PRELIMINARY

Rev: A

Α	FINAL CONCEPT DESIGN	RJC	GM	AS	29.09.17
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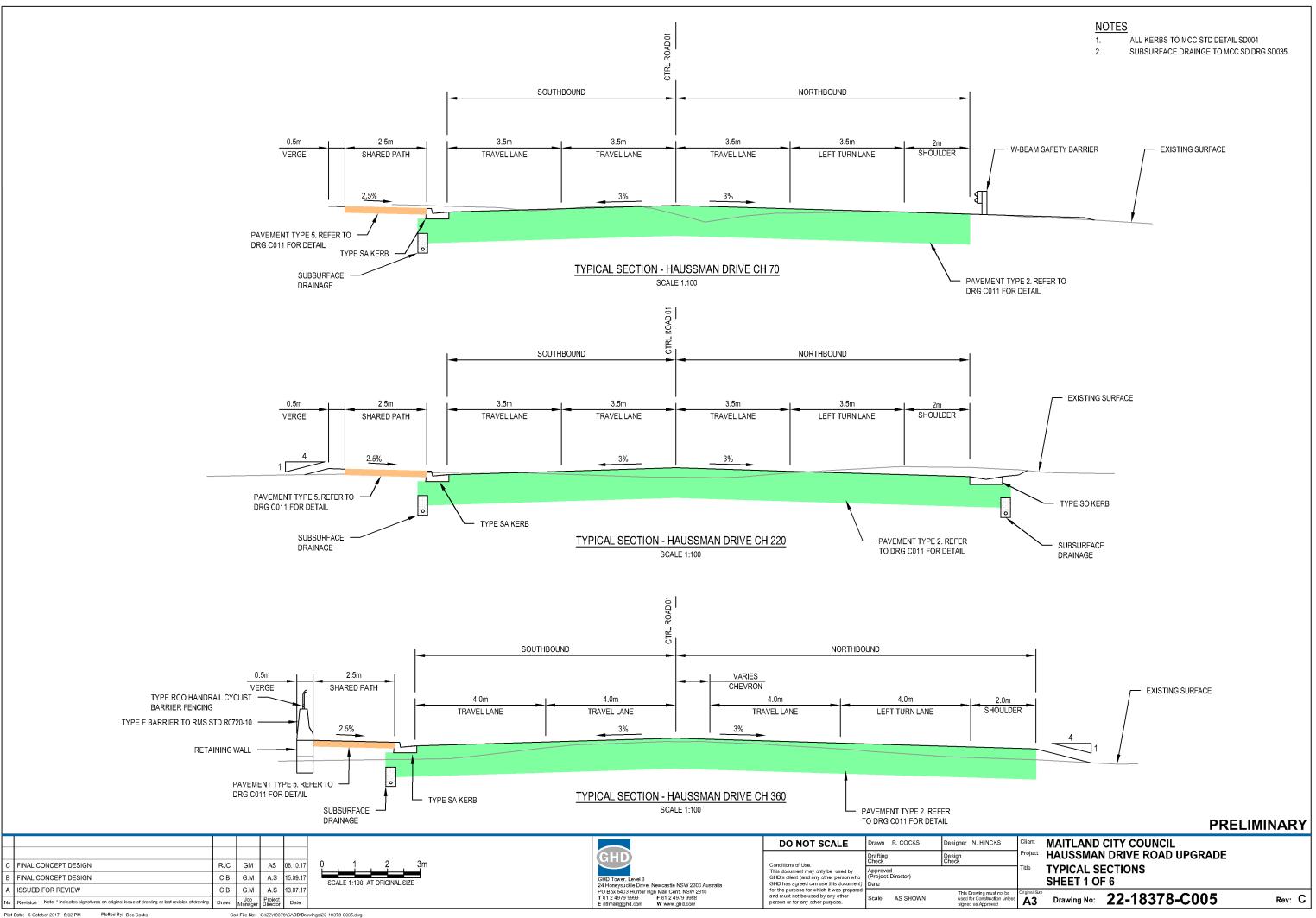
Scale Approved (Project Director)

Designer N. HINCKS

MAITLAND CITY COUNCIL HAUSSMAN DRIVE ROAD UPGRADE

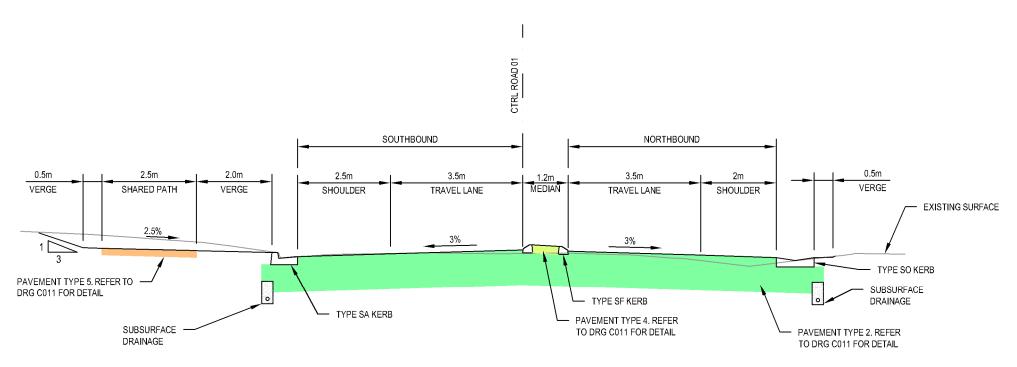
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Manager Director Cad File No: G:\22\18378\CADD\Drawings\22-18378-C004.dwg



NOTES

- . ALL KERBS TO MCC STD DETAIL SD004
- 2. SUBSURFACE DRAINGE TO MCC SD DRG SD035

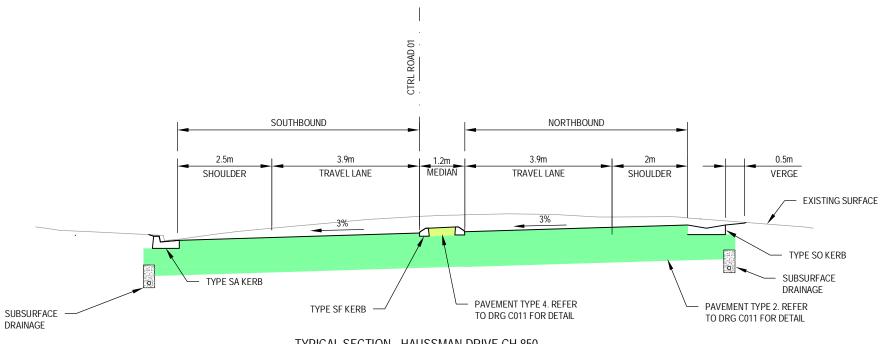


TYPICAL SECTION - HAUSSMAN DRIVE CH 640 SCALE 1:100 SOUTHBOUND NORTHBOUND 2.5m 3.5m 3.5m 2.0m 0.5m 3.45m MEDIAN SHOULDER TRAVEL LANE TRAVEL LANE SHOULDER VERGE EXISTING SURFACE TYPE SA KERB TYPE SO KERB TYPE SF KERB PAVEMENT TYPE 4. REFER TO DRG C011 FOR DETAIL SUBSURFACE SUBSURFACE DRAINAGE PAVEMENT TYPE 2. REFER TO DRG C011 FOR DETAIL DRAINAGE TYPICAL SECTION - HAUSSMAN DRIVE CH 700 SCALE 1:100

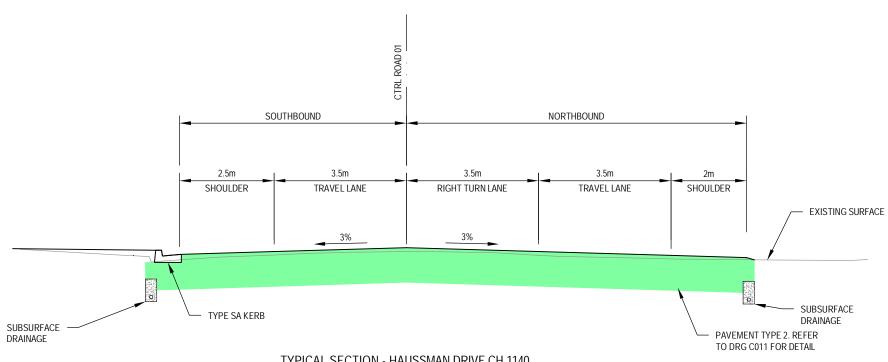
				_		DO NOT SCALE	Drawn R. COCKS	Designer N. HINCKS	Client	MAITLAND CITY COUNCIL	
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C FINAL CONCEPT DESIGN	RJC	GM	AS 06.10.17	7 0 1 2 3111		Conditions of Use. This document may only be used by	Approved	<u> </u>	Title	TYPICAL SECTIONS	
B FINAL CONCEPT DESIGN	C.B	G.M	A.S 15.09.17	7 SCALE 1:100 AT ORIGINAL SIZE	GHD Tower, Level 3 24 Honevsuckle Drive. Newcastle NSW 2300 Australia	GHD's client (and any other person who GHD has agreed can use this document)				SHEET 2 OF 6	
A ISSUED FOR REVIEW	C.B	G.M	A.S 13.07.17	7	PO Box 5403 Hunter Rgn Mail Cent. NSW 2310	for the purpose for which it was prepared and must not be used by any other		This Drawing must not be		ze 00.400=0.000	
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- SUBSURFACE DRAINGE TO MCC SD DRG SD035



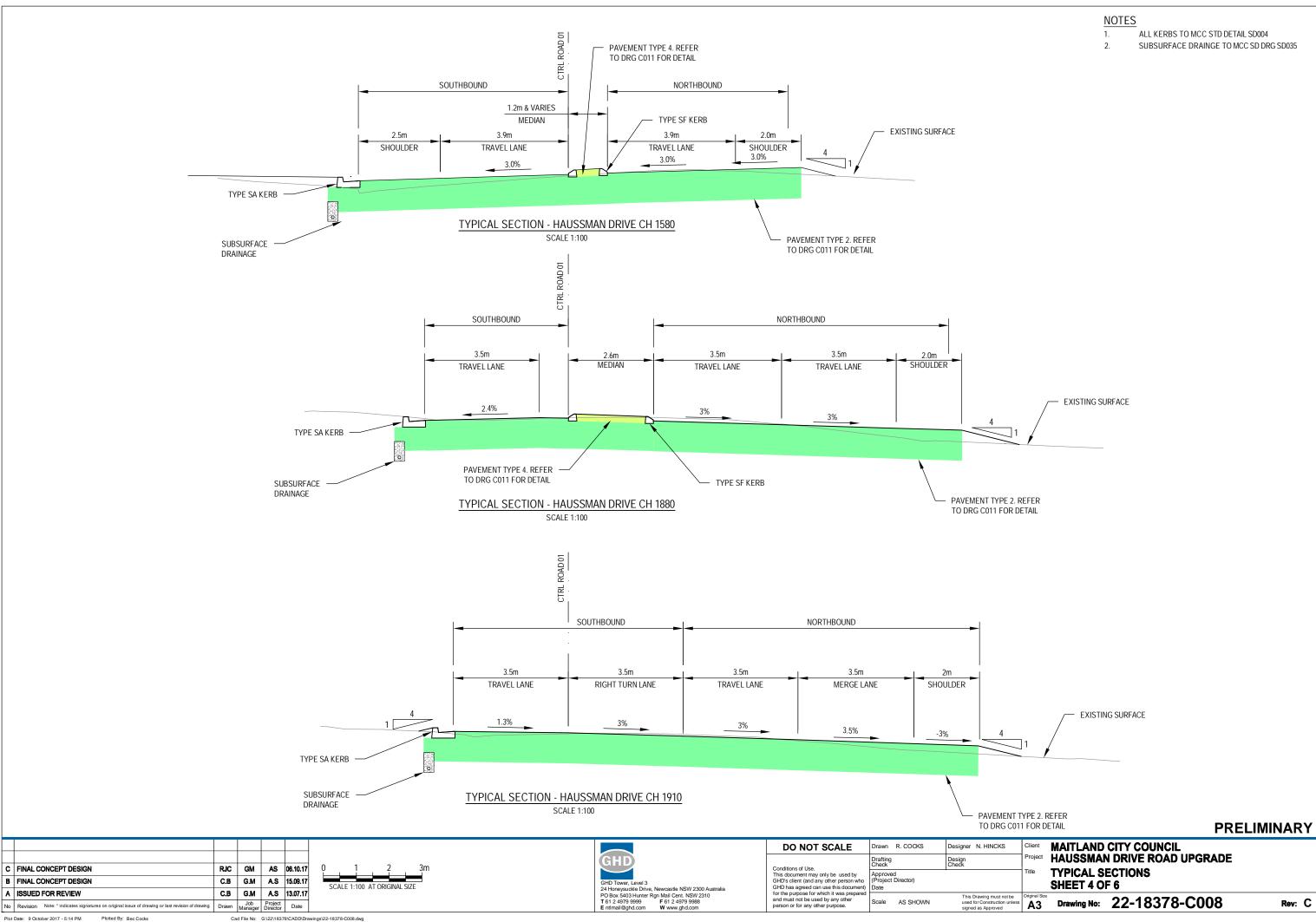
TYPICAL SECTION - HAUSSMAN DRIVE CH 850 SCALE 1:100



TYPICAL SECTION - HAUSSMAN DRIVE CH 1140

SCALE 1:100

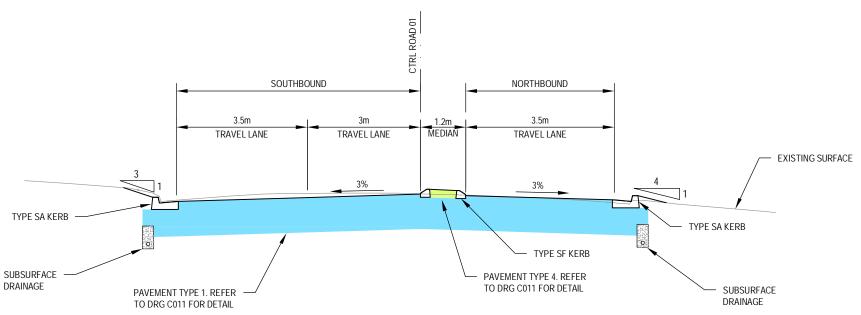
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					0 1 2 2	GHD		Drafting Check	Design Check	Projec	HAUSSMAN DRIVE ROAD UPGRADE
C	FINAL CONCEPT DESIGN RJC	GM	AS	06.10.17	1 U I Z 3M		Conditions of Use. This document may only be used by	Approved		Title	TYPICAL SECTIONS
В	FINAL CONCEPT DESIGN C.B	G.M	A.S	15.09.17	SCALE 1:100 AT ORIGINAL SIZE	GHD Tower, Level 3		(Project Director)			SHEET 3 OF 6
A	ISSUED FOR REVIEW C.B	G.M	A.S	13.07.17	, OSILE MOO IN GRADINE SILE	24 Honeysuckle Drive, Newcastle NSW 2300 Australia PO Box 5403 Hunter Rgn Mail Cent. NSW 2310	for the purpose for which it was prepared	Bate	This Drawing must not be	Original S	*
No	Revision Note: * indicates signatures on original issue of drawing or last revision of drawing Drawn	Job Manage	Project Directo	t r Date		T 61 2 4979 9999 F 61 2 4979 9988 E ntlmail@ghd.com W www.ghd.com	and must not be used by any other person or for any other purpose.	Scale AS SHOWN	used for Construction unless signed as Approved	A3	Drawing No: 22-18378-C007 Rev: C



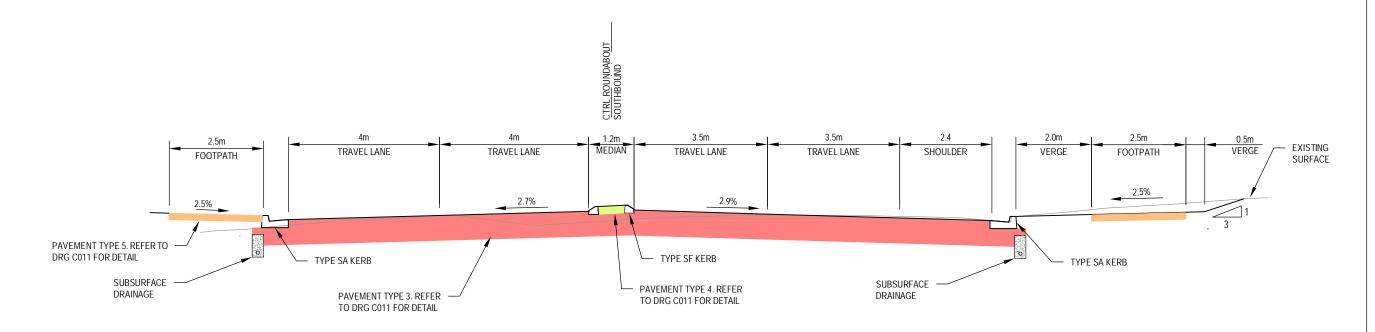
NOTES

- ALL KERBS TO MCC STD DETAIL SD004
- 2. SUBSURFACE DRAINGE TO MCC SD DRG SD035

PRELIMINARY



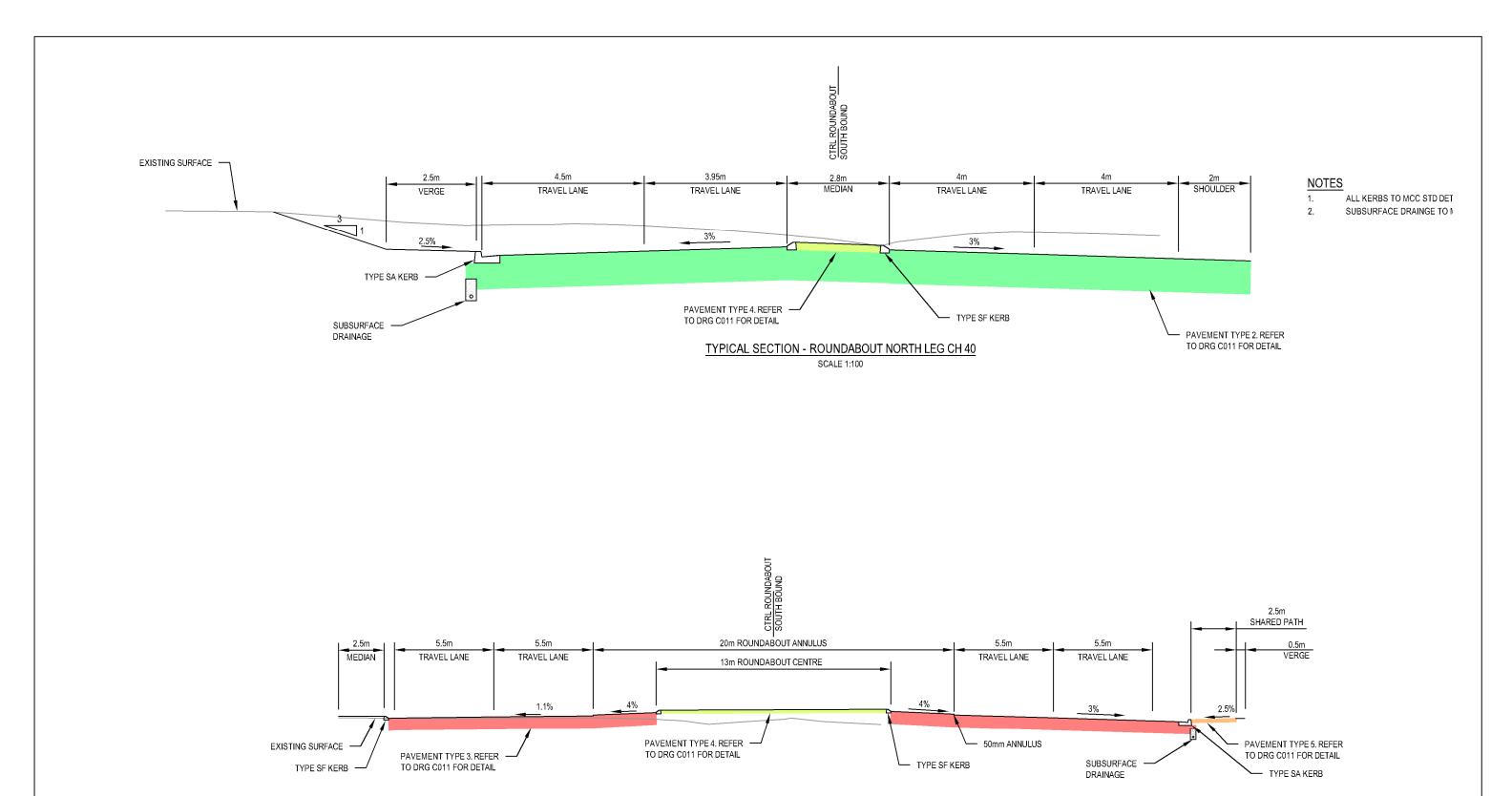
TYPICAL SECTION - HAUSSMAN DRIVE CH 2080 SCALE 1:100



TYPICAL SECTION - ROUNDABOUT SOUTH LEG CH 10

SCALE 1:100

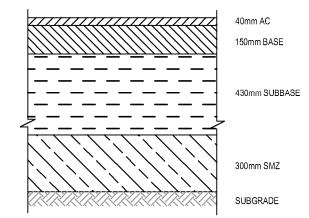
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TYPICAL SECTION - ROUNDABOUT NORTHBOUND CH 97

SCALE 1:200

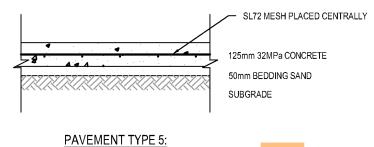
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No	Revision Note: * indicates signatures on original issue of drawing or last revision of drawing	rawn _N	Job Proj Manager Direc	tor Date		T 61 2 4979 9999 F 61 2 4979 9988 E ntlmail@ghd.com W www.ghd.com	person or for any other purpose.	Scale AS SHOWN	used for Construction unless signed as Approved	A3	Drawing No: 22-18378-C010	Rev: C



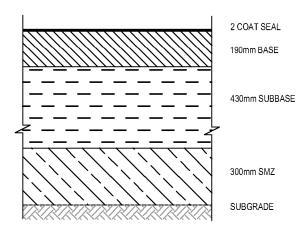
PAVEMENT TYPE 1: UNBOUND PAVEMENT WITH AC

210mm CONCRETE BASE CURING AND BOUNDING TREATMENT 150mm LEAN CONCRETE SUBBASE PRIMER SEAL 300mm SMZ SUBGRADE

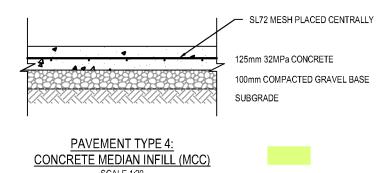
PAVEMENT TYPE 3: INDICATIVE CONCRETE ROUNDABOUT PAVEMENT SCALE 1:20



SHARED PATHWAY (MCC) SCALE 1:20

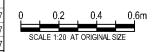


UNBOUND PAVEMENT WITH 2 COAT SEAL



PAVEMENT TYPE 2: SCALE 1:20

С	FINAL CONCEPT DESIGN	RJC	GM	AS	06.10.17
В	FINAL CONCEPT DESIGN	C.B	G.M	A.S	15.09.17
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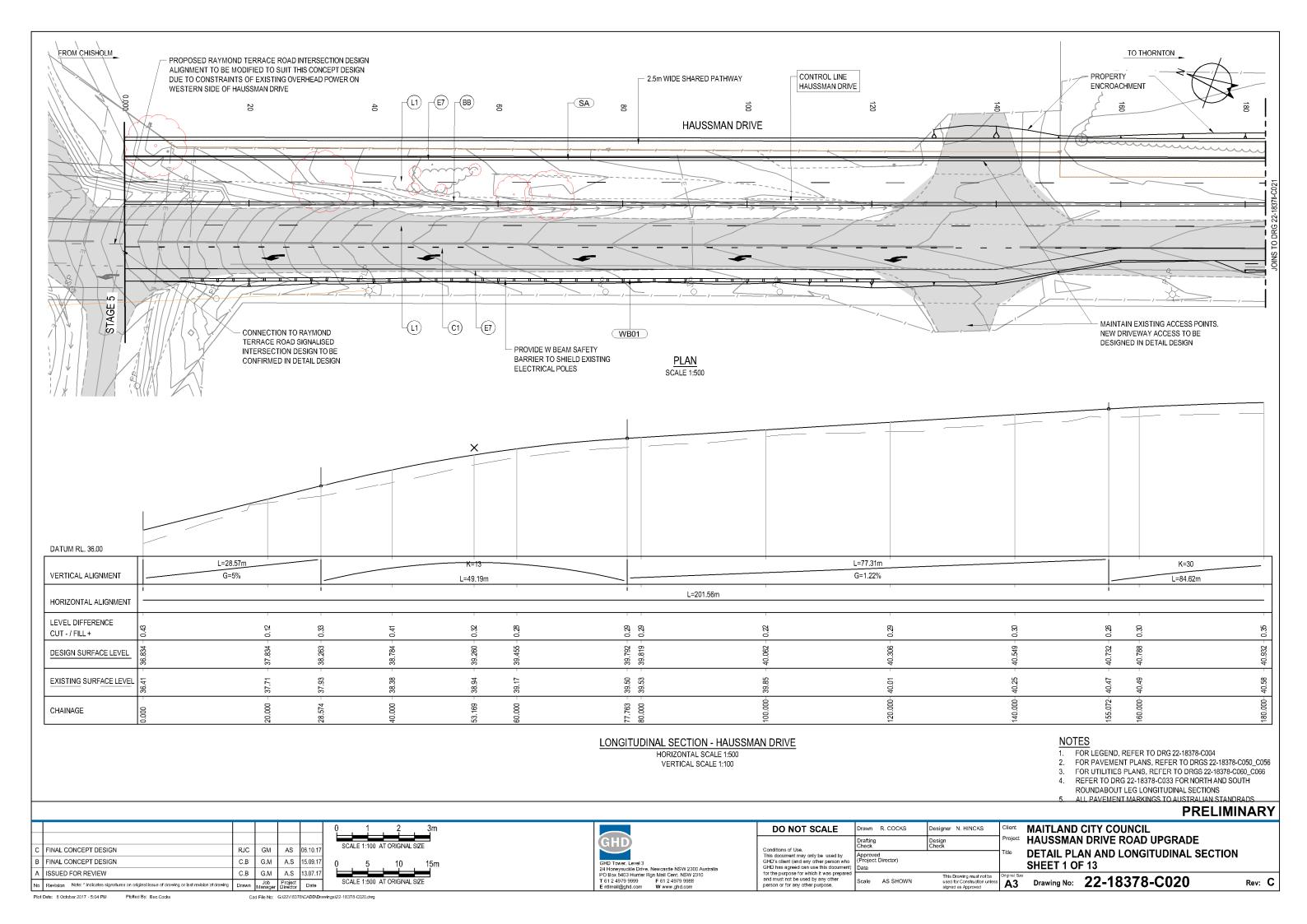
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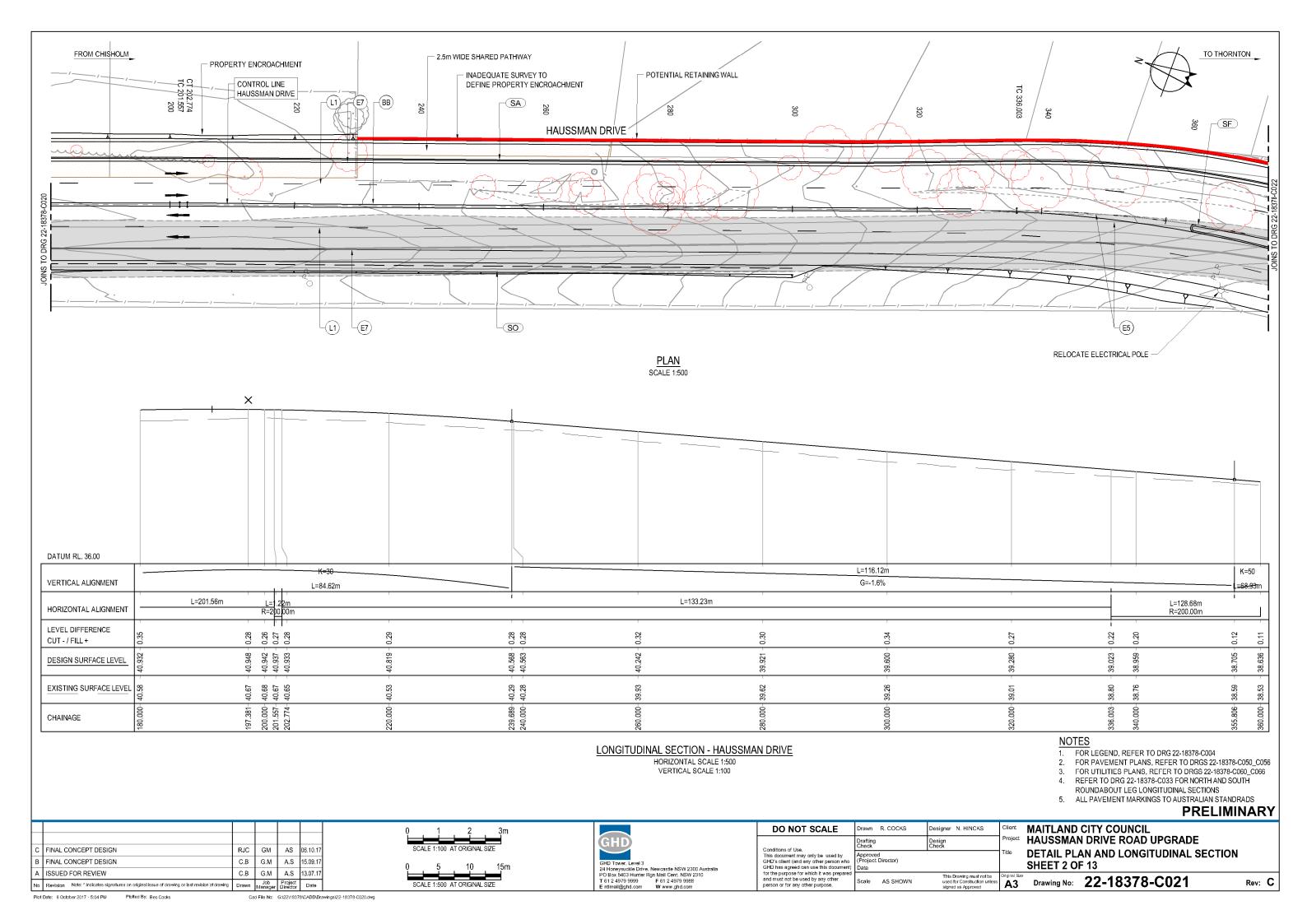
PRELIMINARY MAITLAND CITY COUNCIL HAUSSMAN DRIVE ROAD UPGRADE TYPICAL PAVEMENT DETAILS

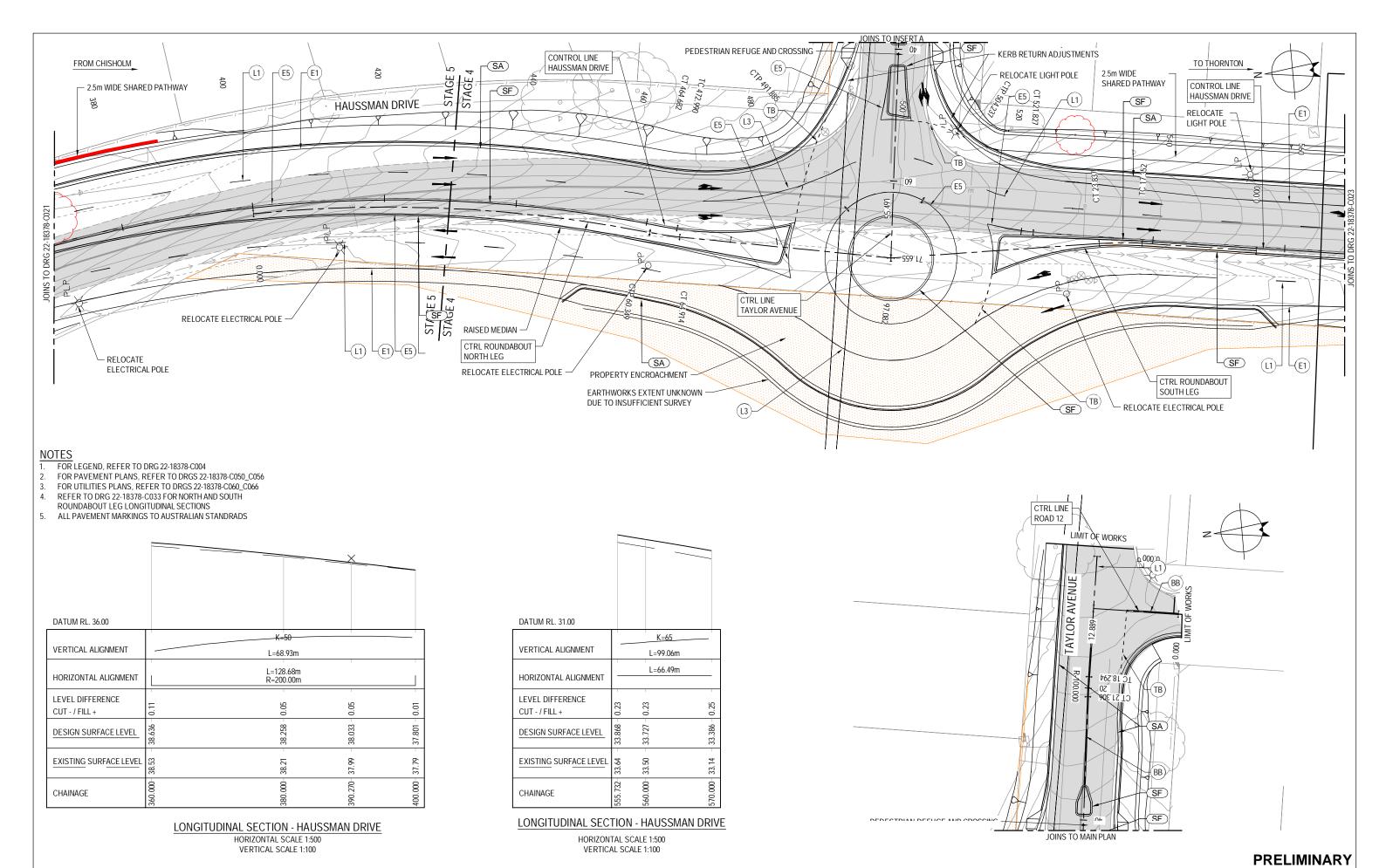
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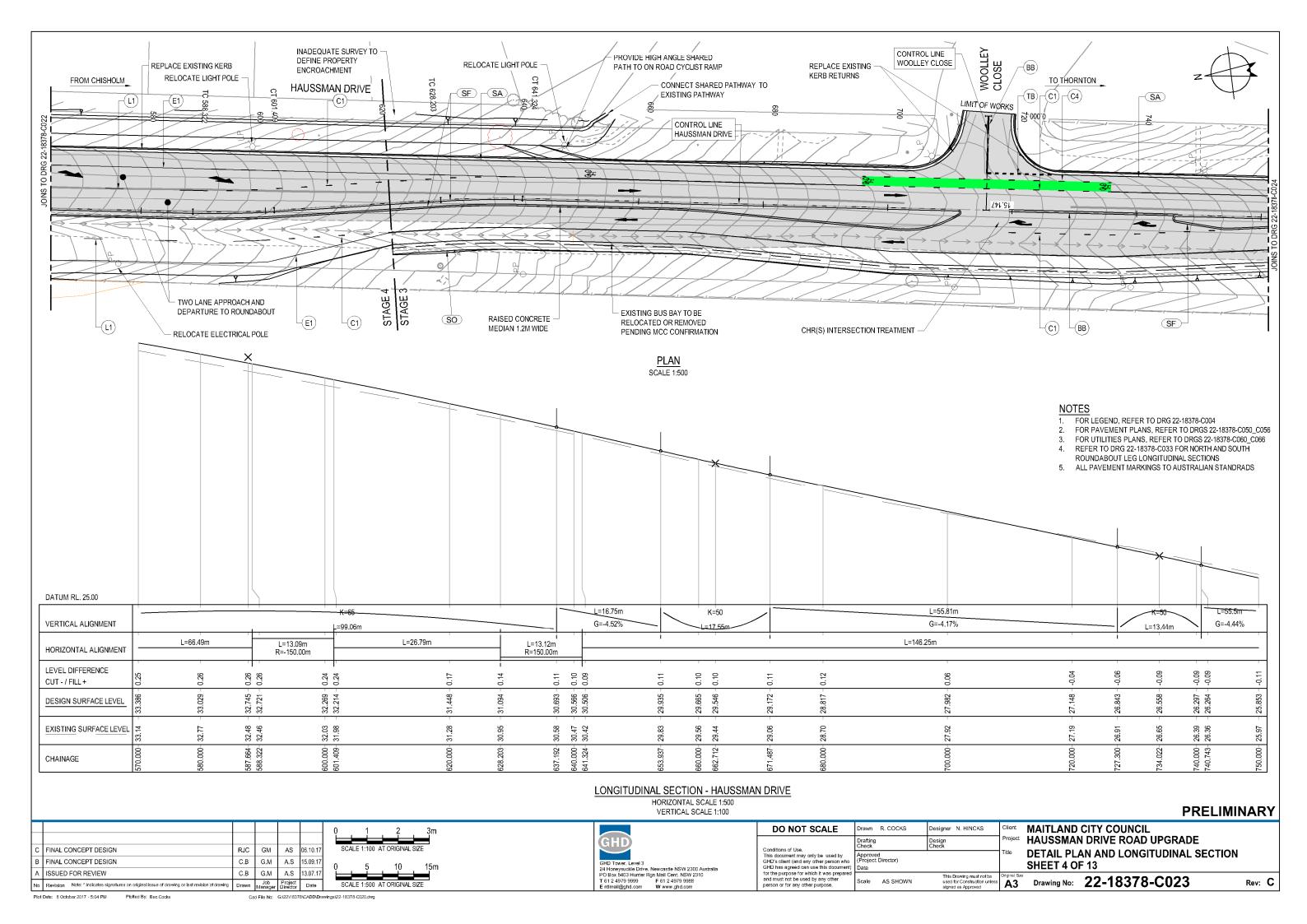
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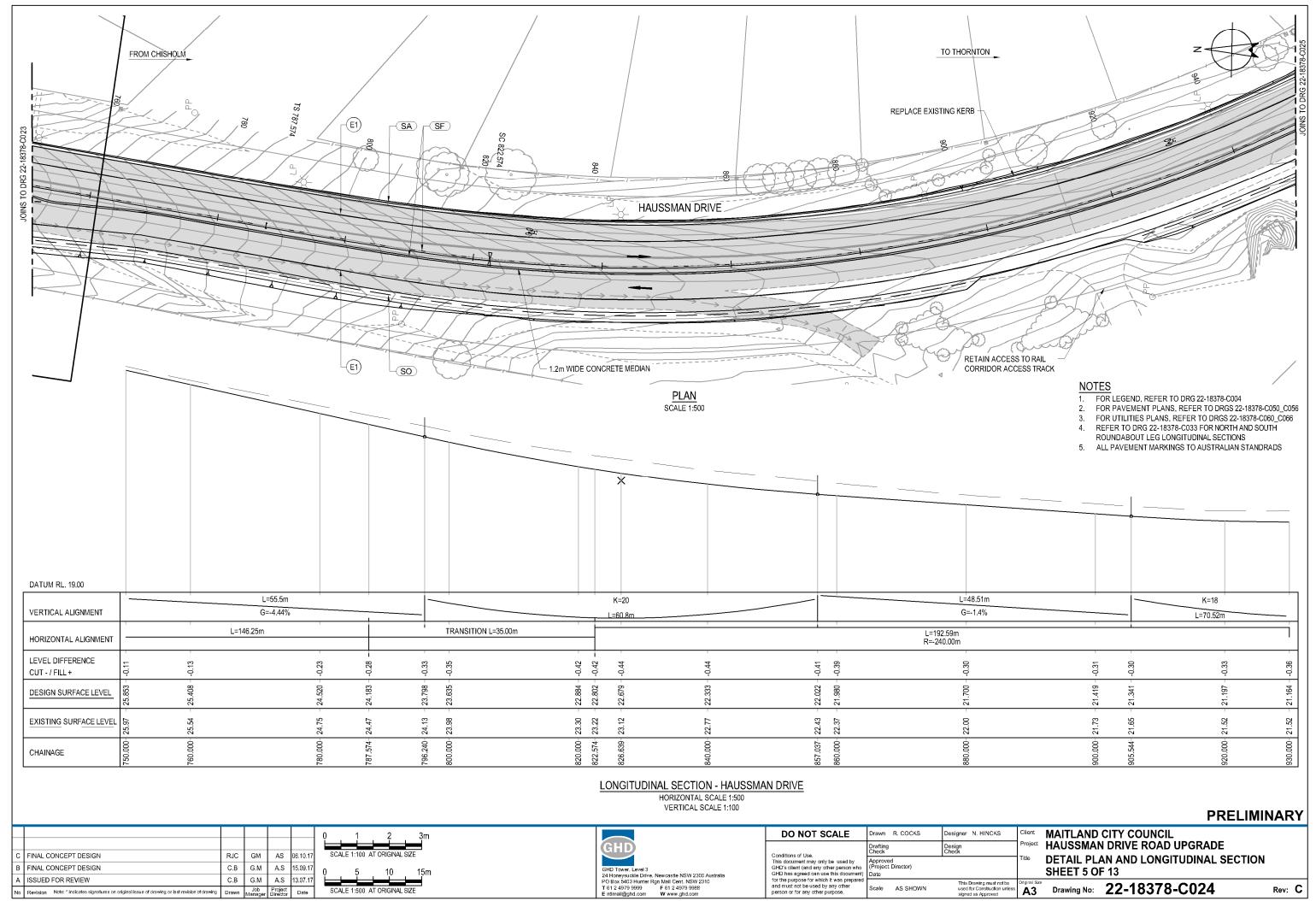
MAITLAND CITY COUNCIL HAUSSMAN DRIVE ROAD UPGRADE **DETAIL PLAN AND LONGITUDINAL SECTION SHEET 3 OF 13**

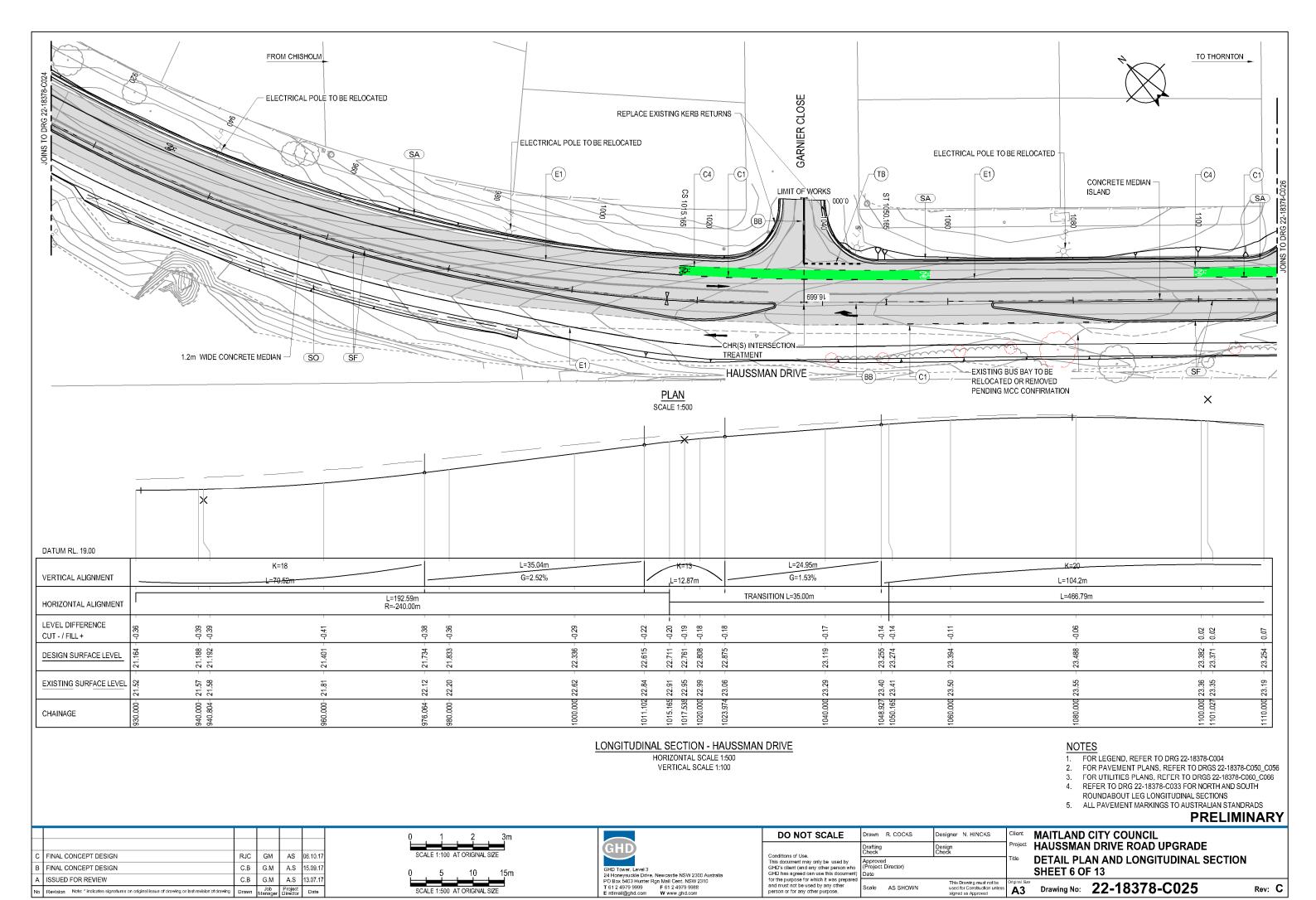
A3 Drawing No: 22-18378-C022

Rev: C

Date







SHEET 6 OF 13

A3 Drawing No: 22-18378-C025

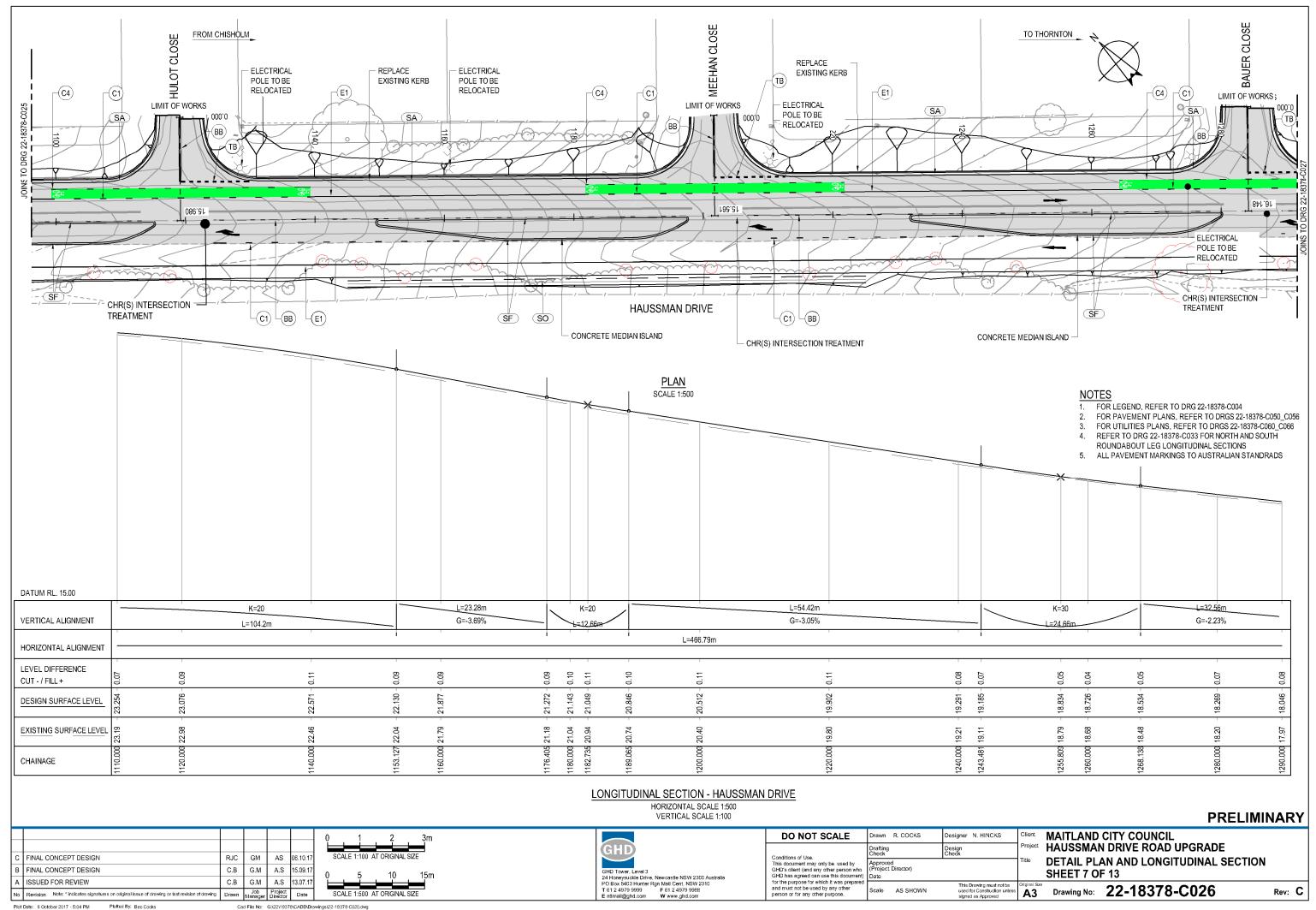
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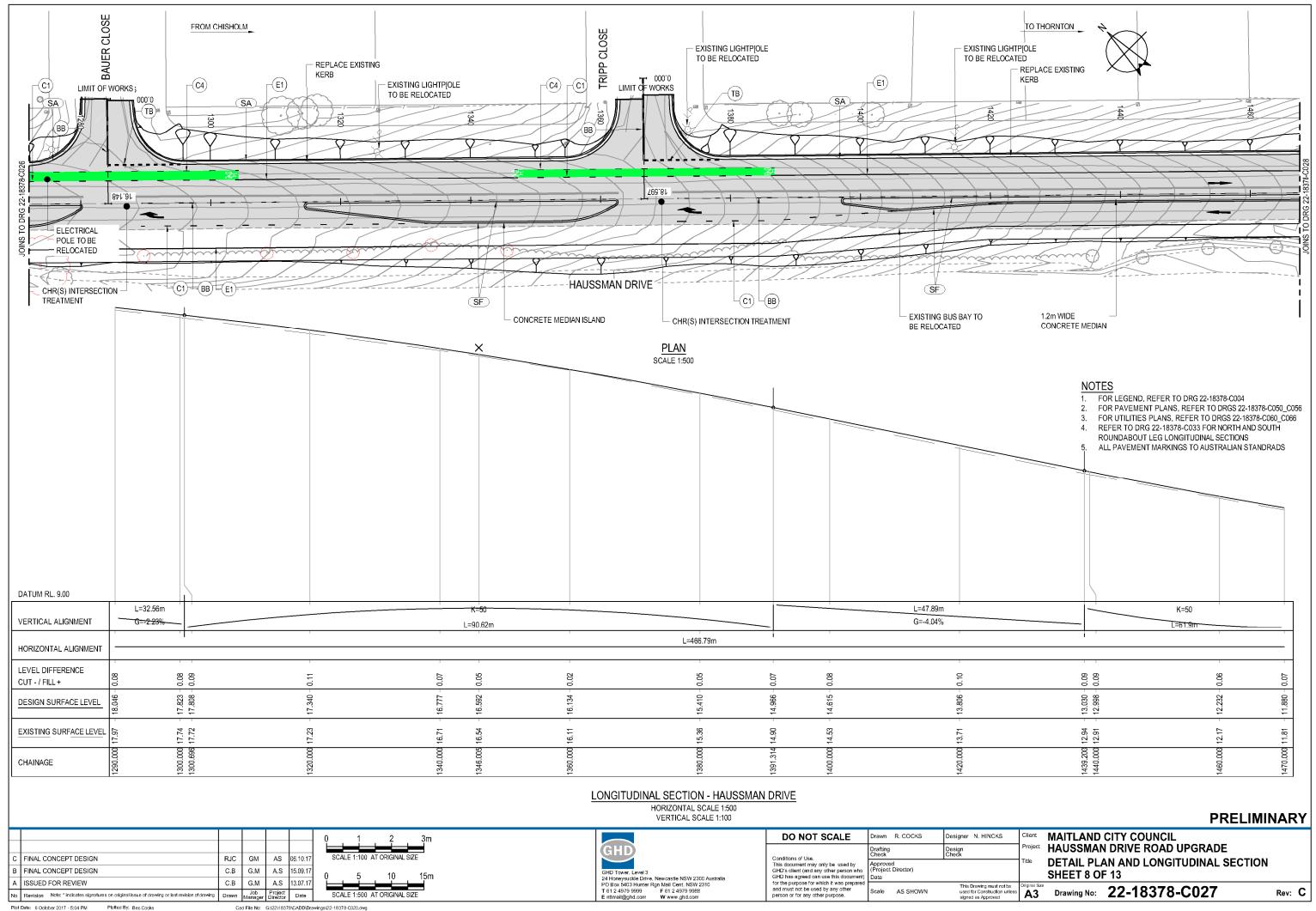
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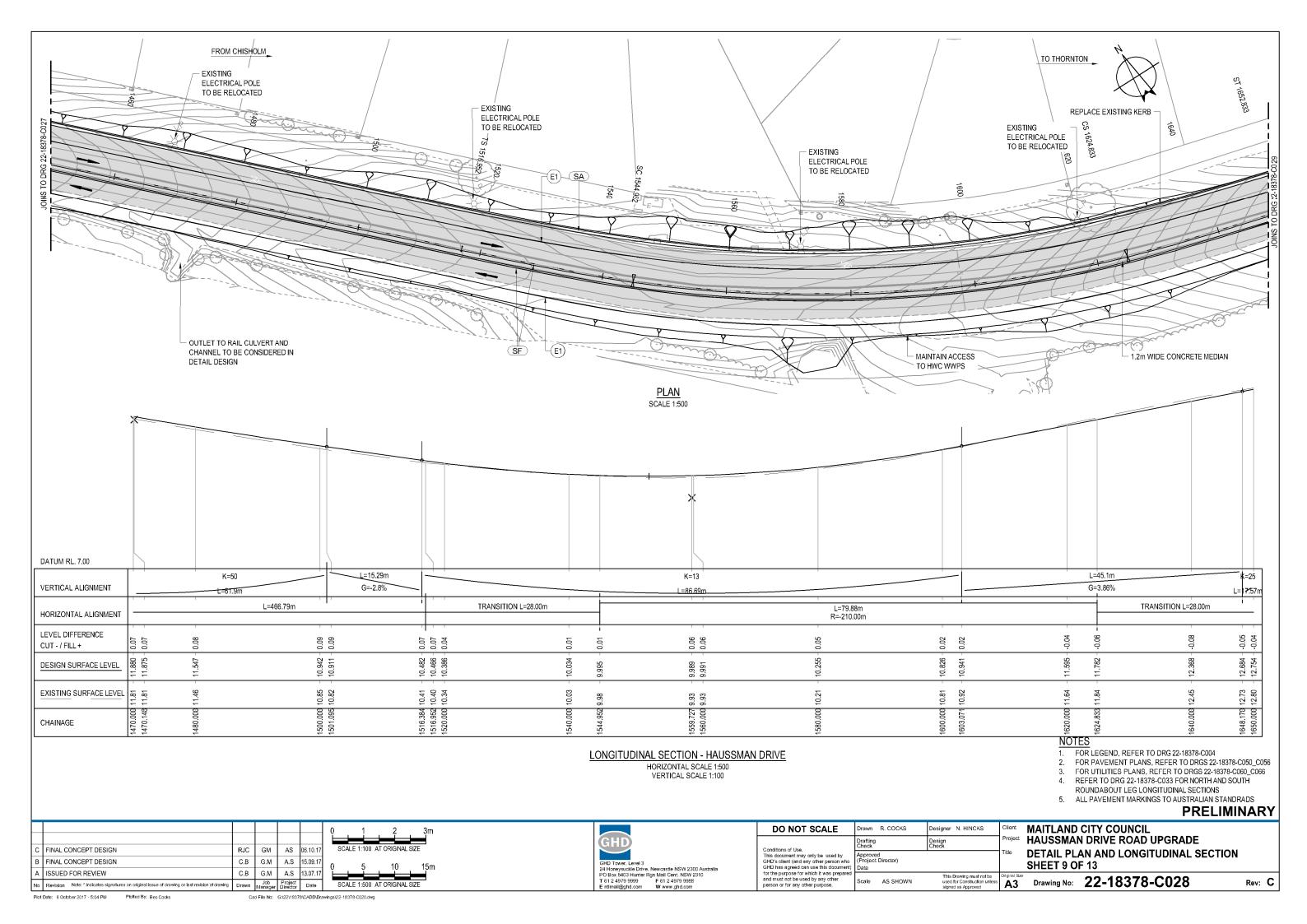
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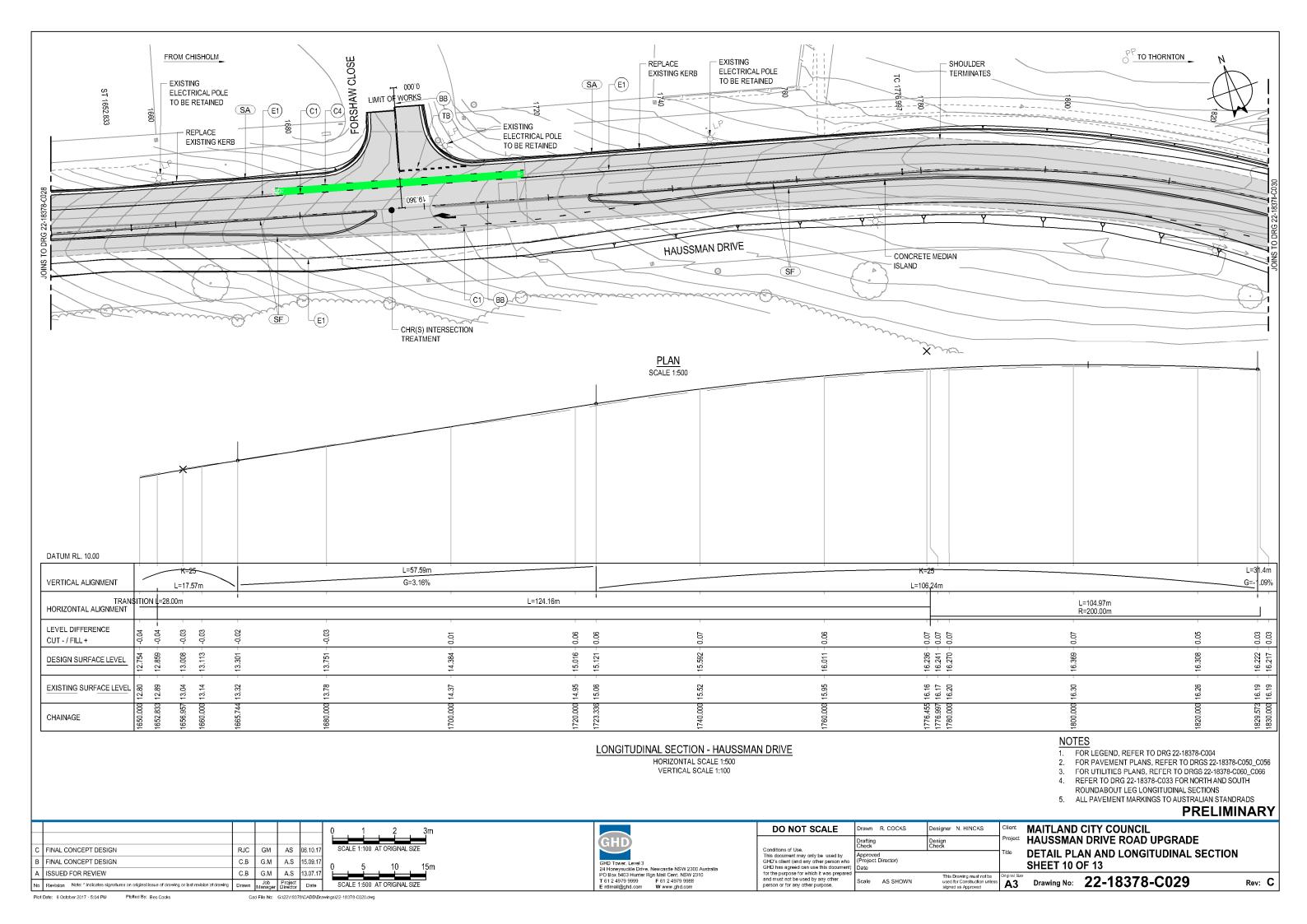
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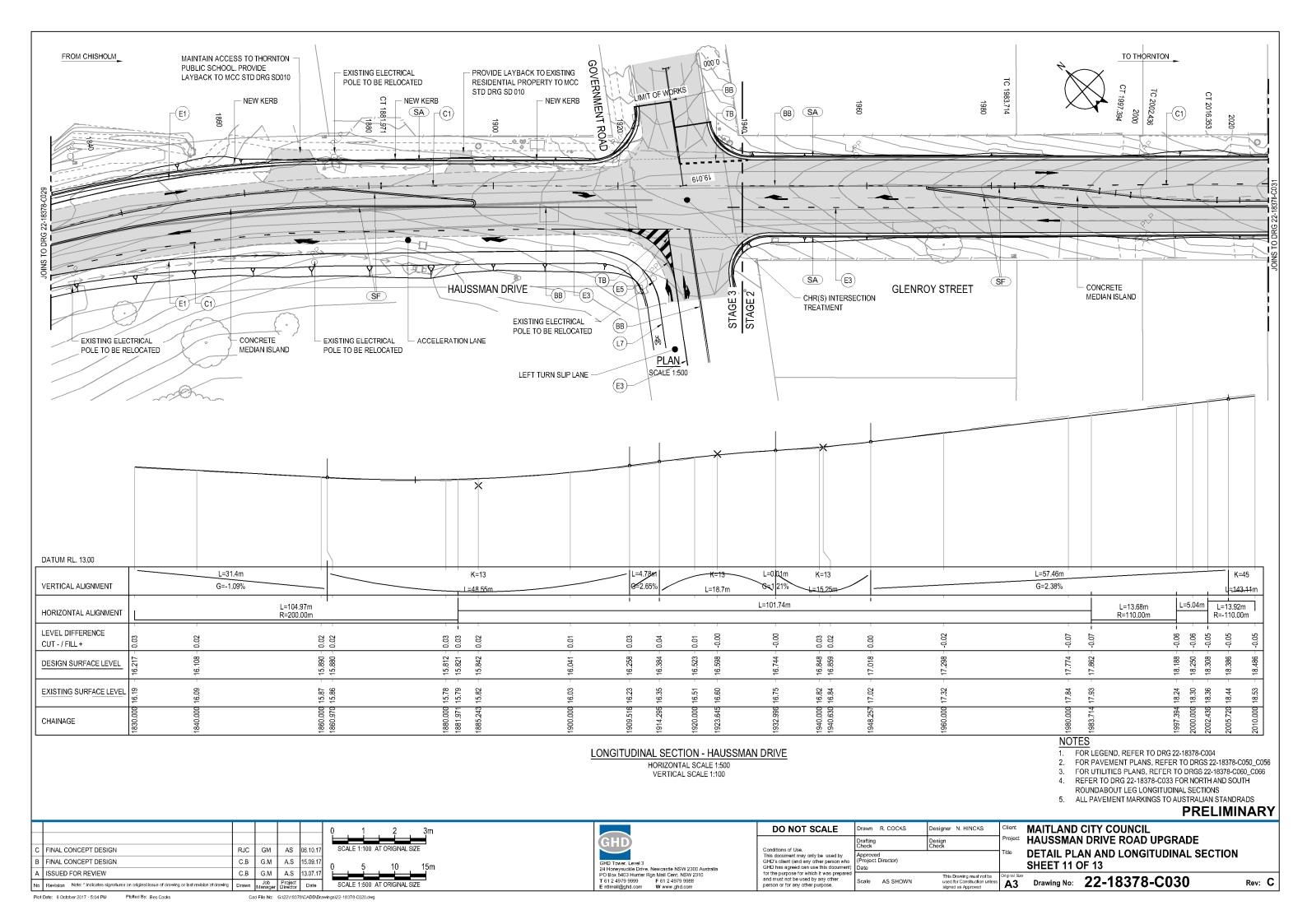
C.B G.M A.S 13.07.17

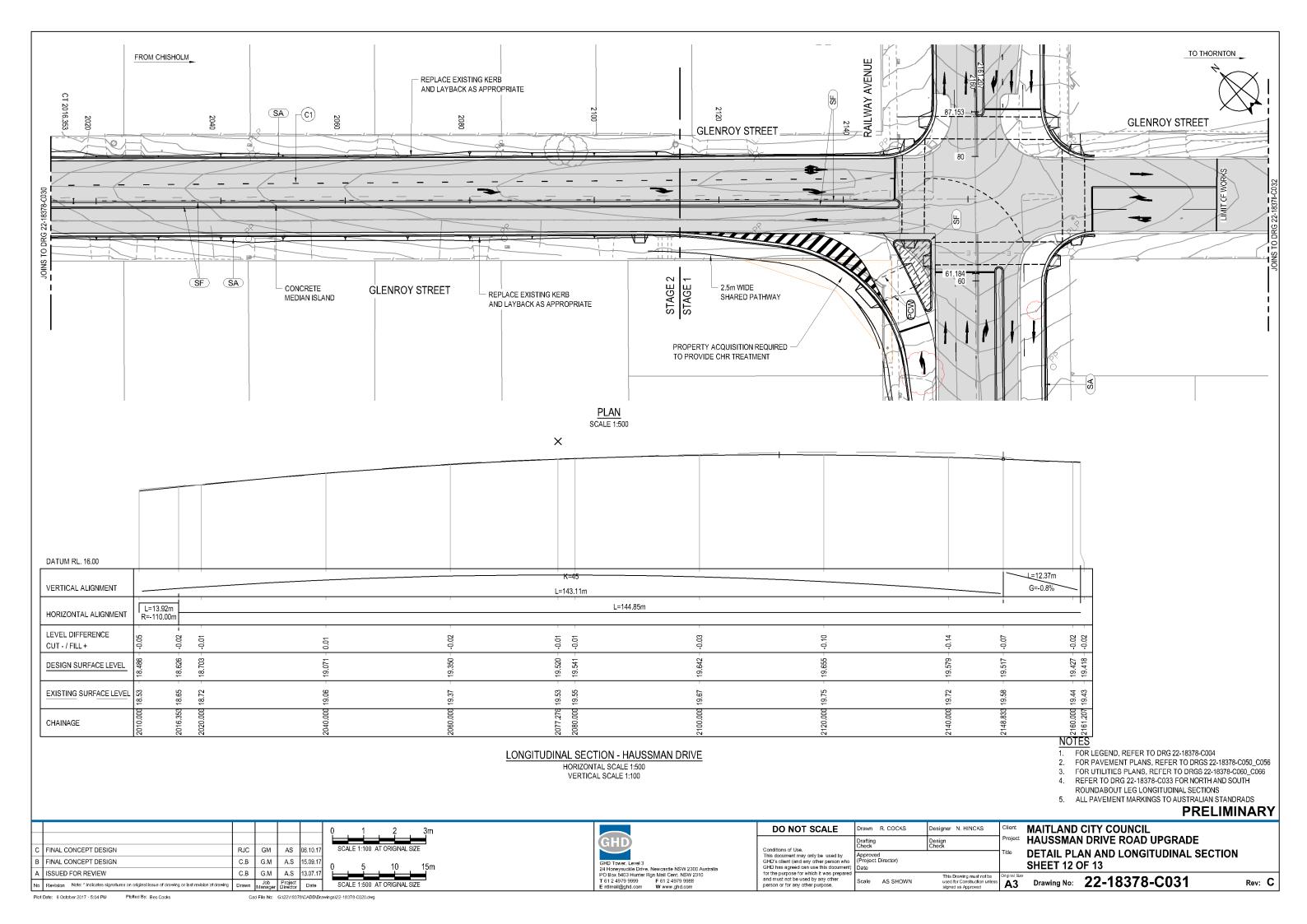


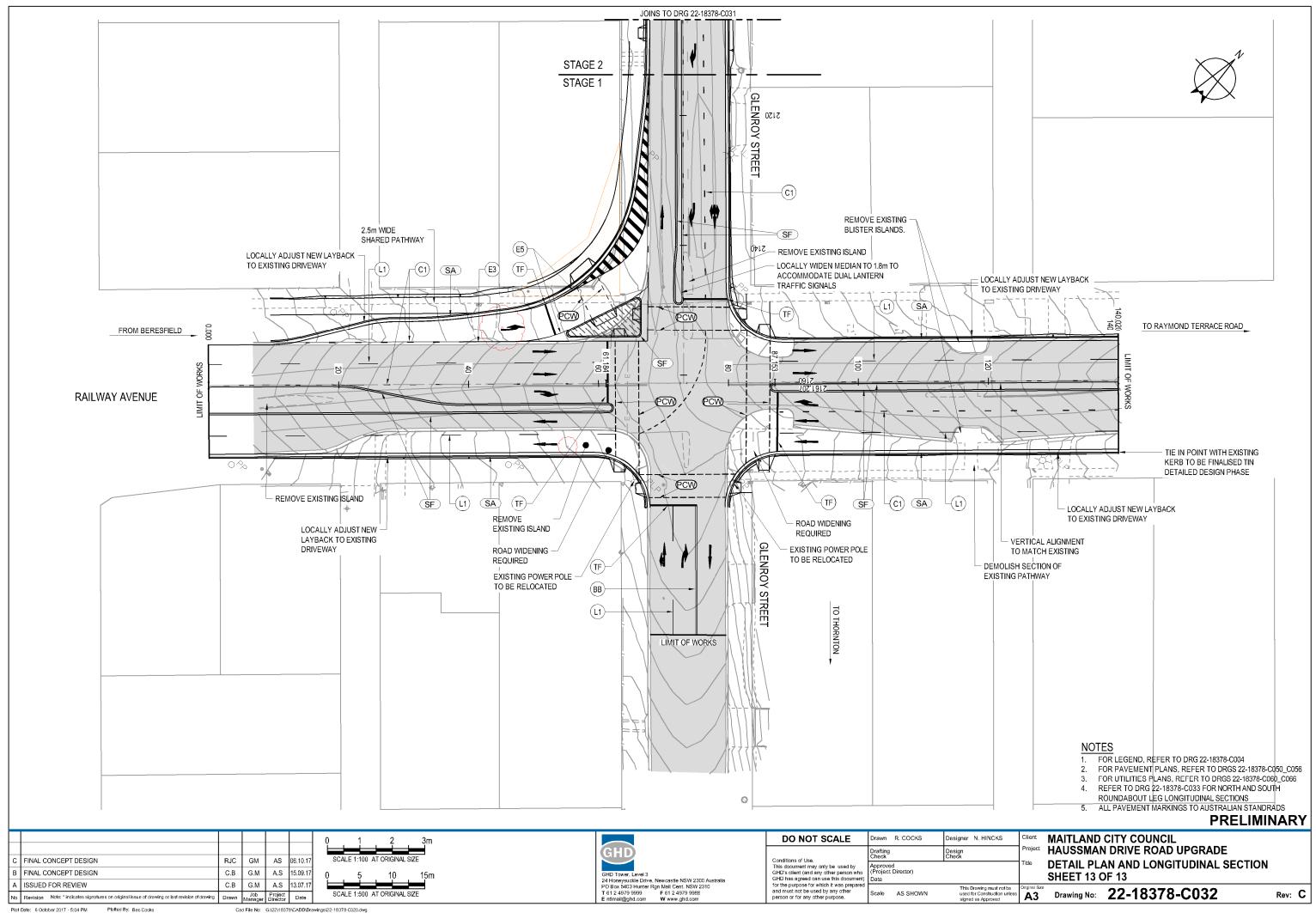


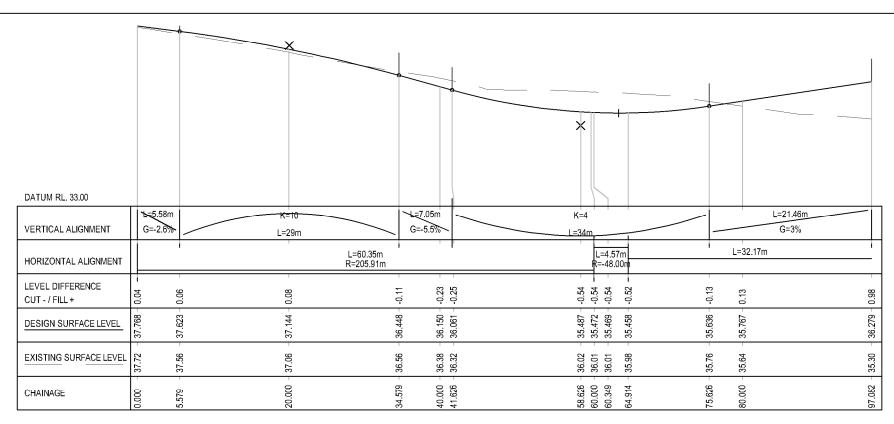






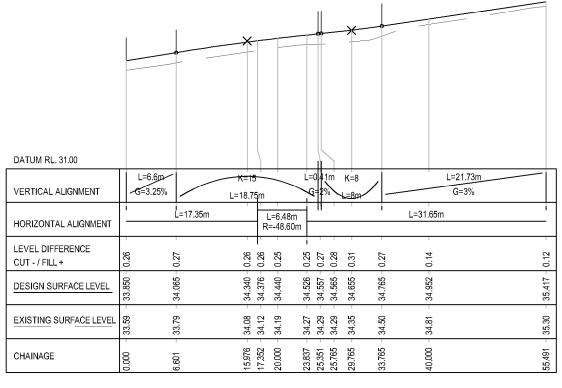






LONGITUDINAL SECTION - RNDBT NTH LEG

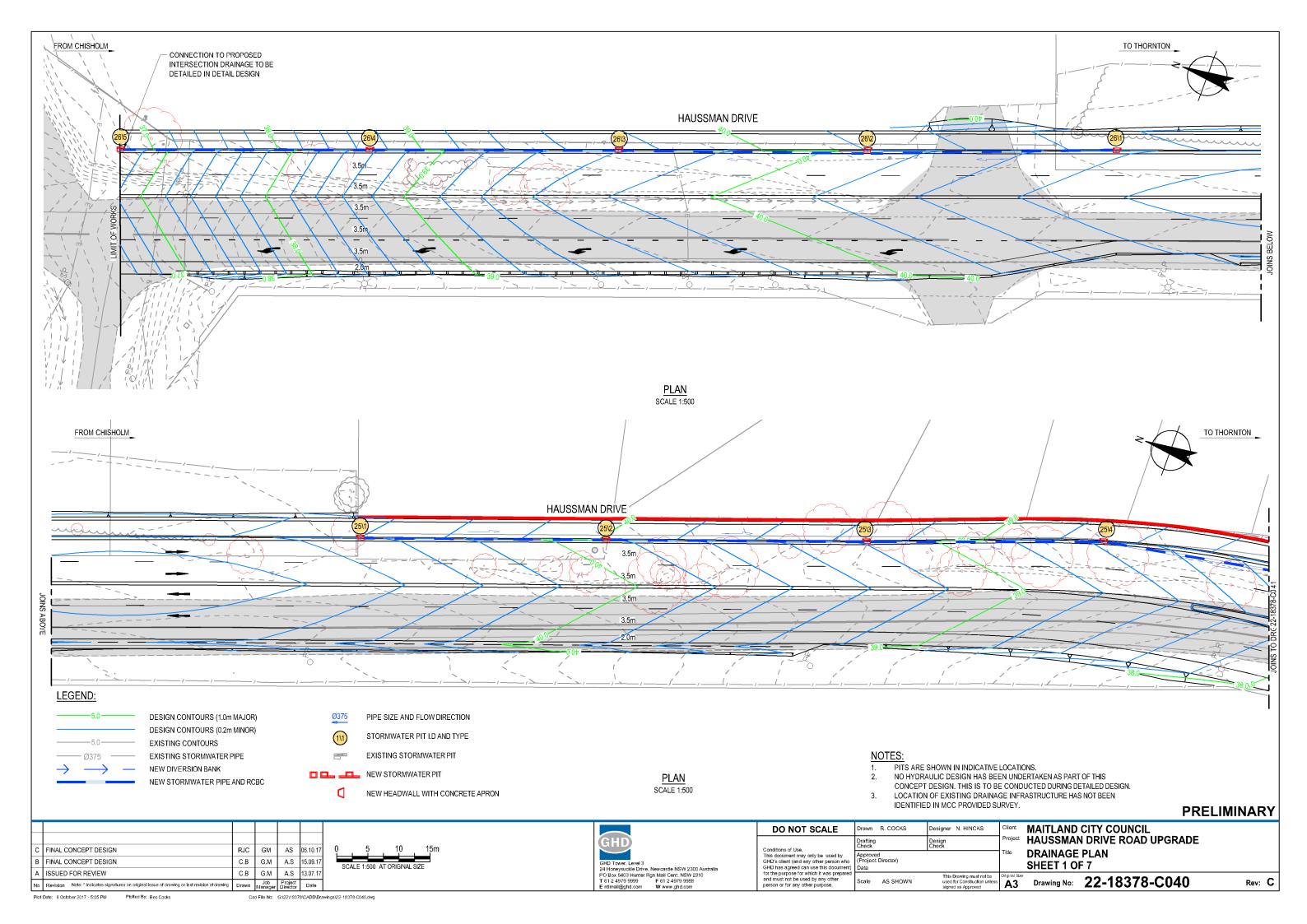
HORIZONTAL SCALE 1:500 VERTICAL SCALE 1:100

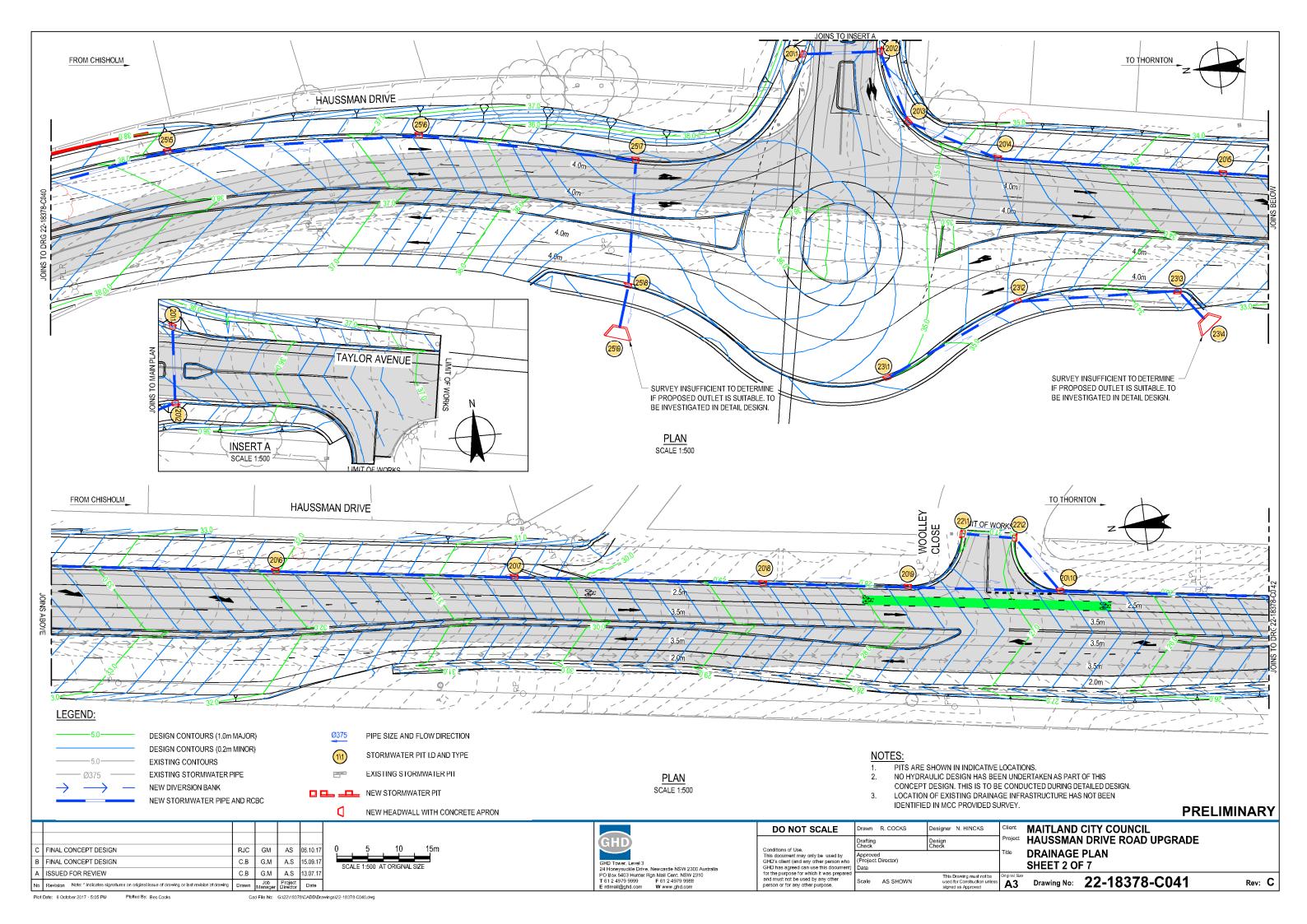


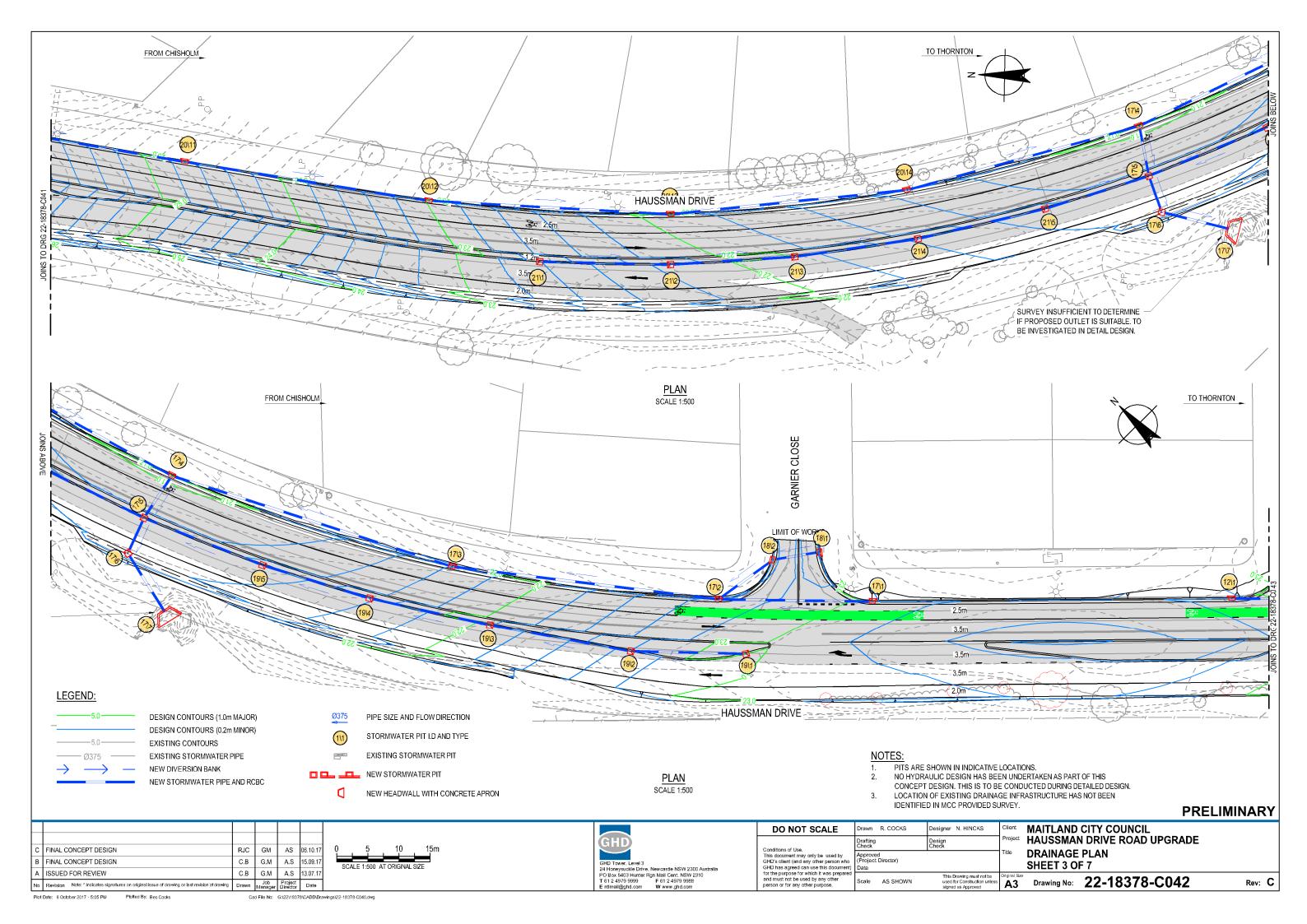
LONGITUDINAL SECTION - RNDBT STH LEG

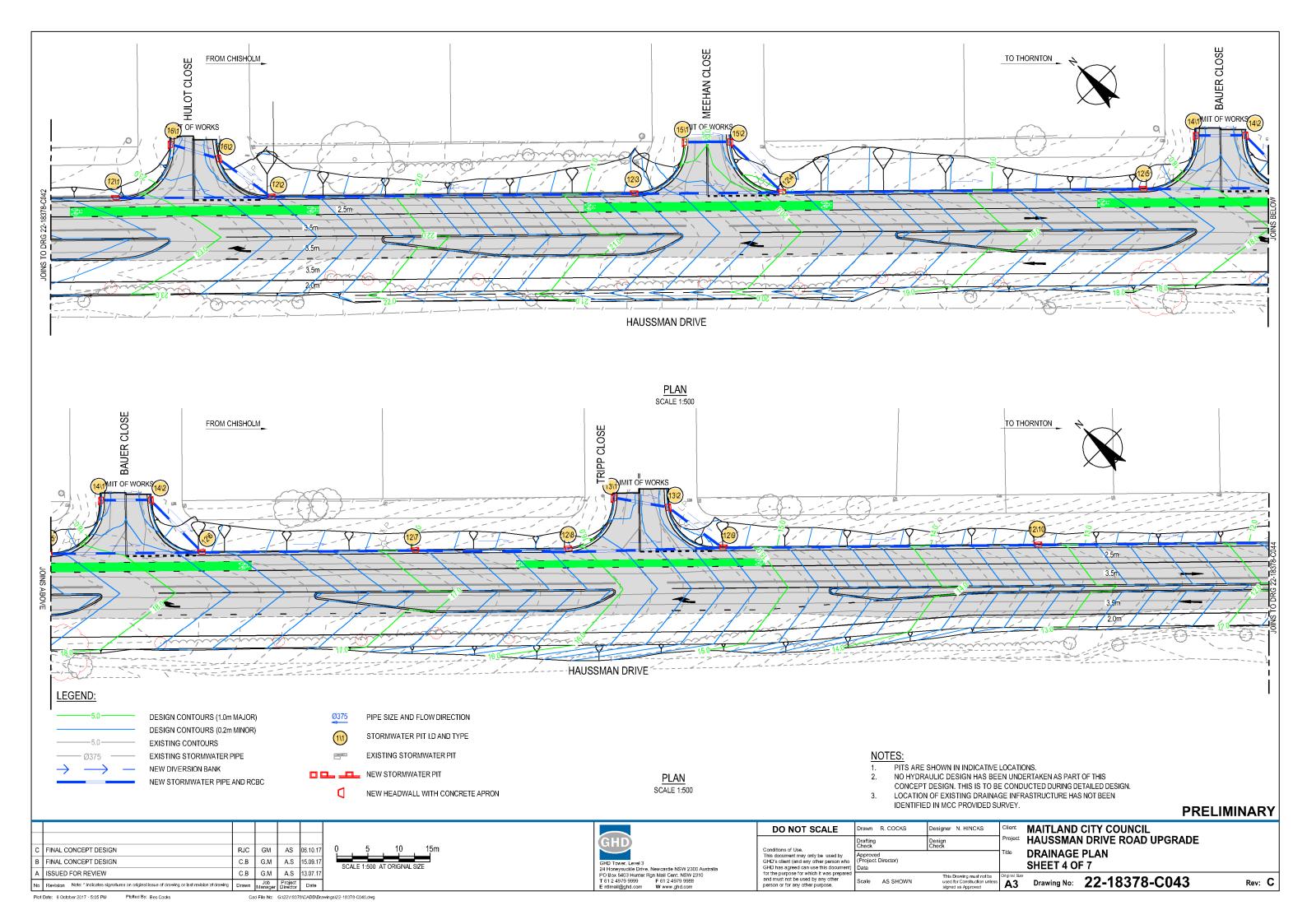
HORIZONTAL SCALE 1:500 VERTICAL SCALE 1:100

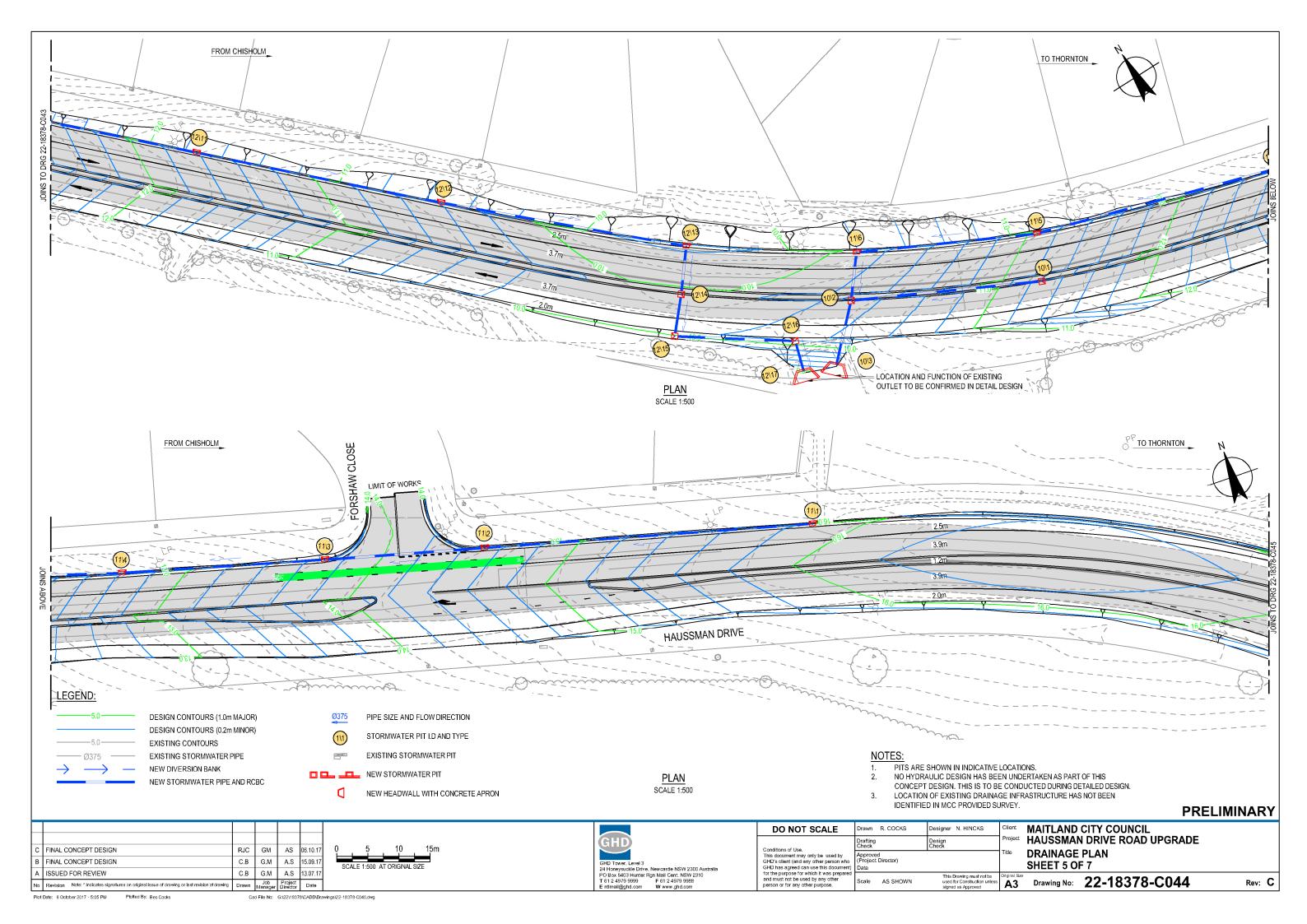
Conditions of Use. Condit		0 1 2 3m		DO NOT SCALE	Drawn R. COCKS	Designer N. HINCKS		MAITLAND CITY COUNCIL	
This document may only be used by GHD's client (an ay only be used		SCALE 1:100 AT ORIGINAL SIZE	GHD	Conditions of Use	Drafting Check	Design Check			
SCALE 1/500 AT ODICINAL SIZE TEL 24979 9999 FEL 24979 9998 and must not be used by any other Scale AS SHOWN used for Constitution to less than 11 section 12 section 12 section 12 section 13 section 12 section 13 section				This document may only be used by GHD's client (and any other person who GHD has agreed can use this document)	Approved (Project Director) Date				
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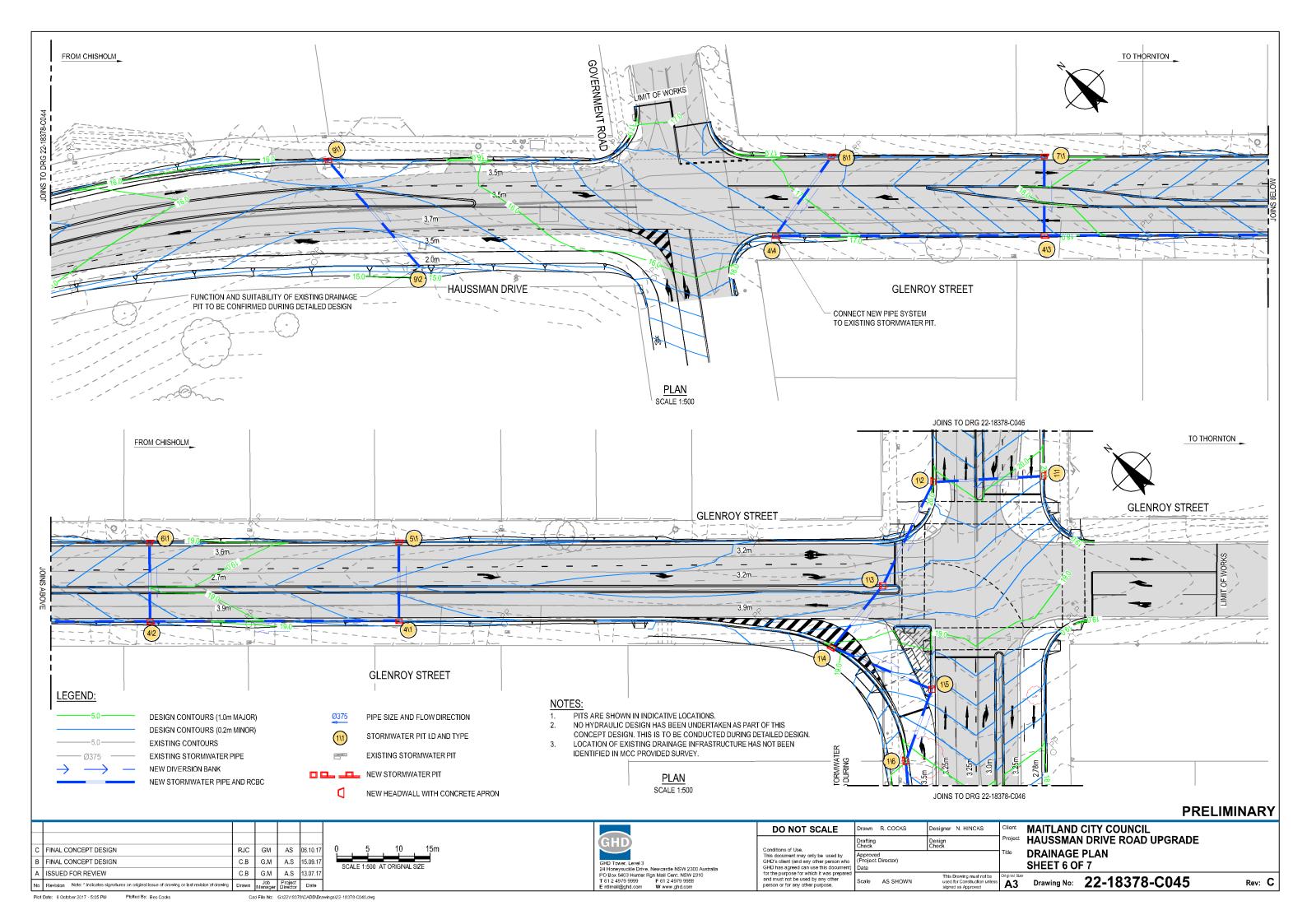


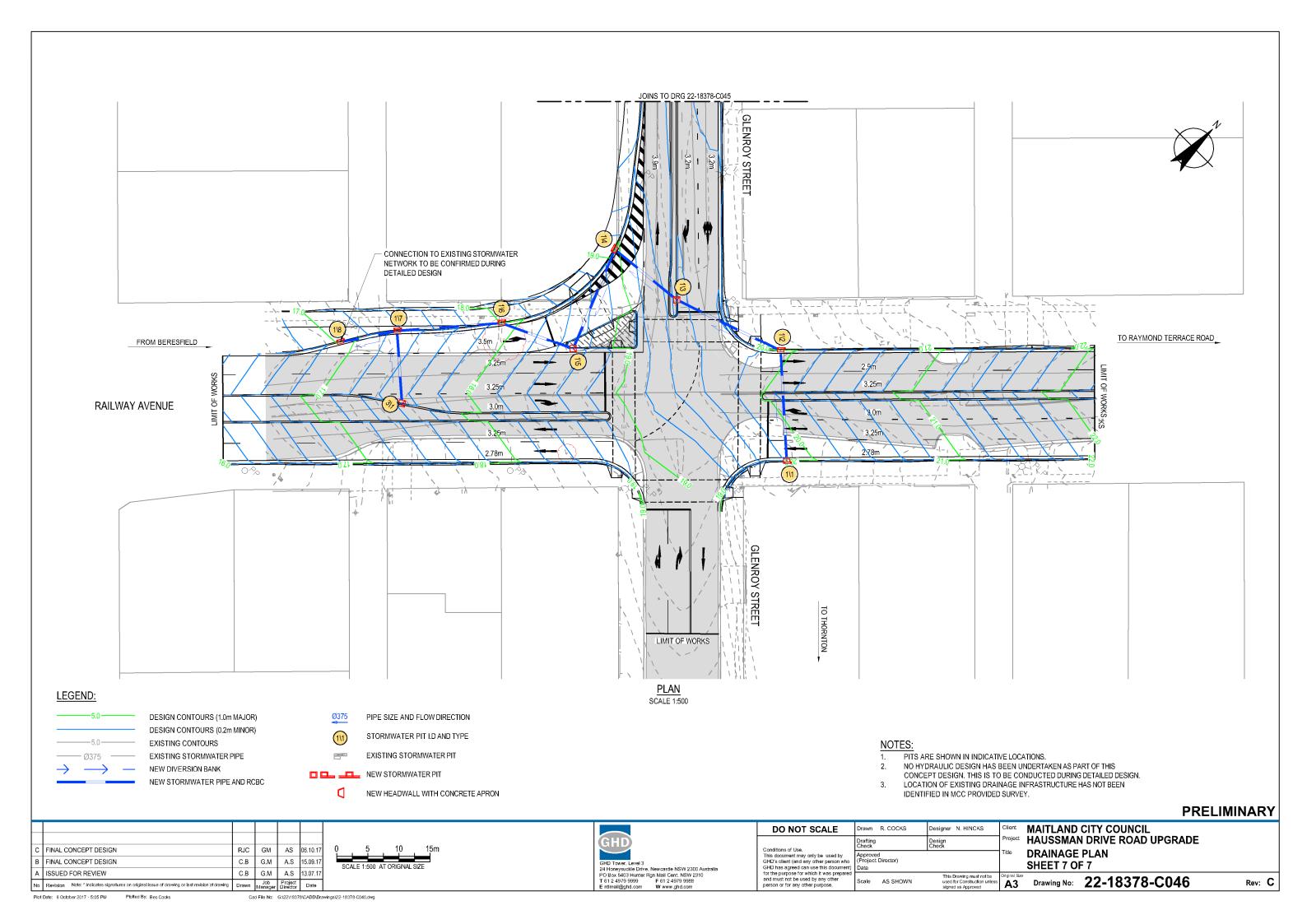


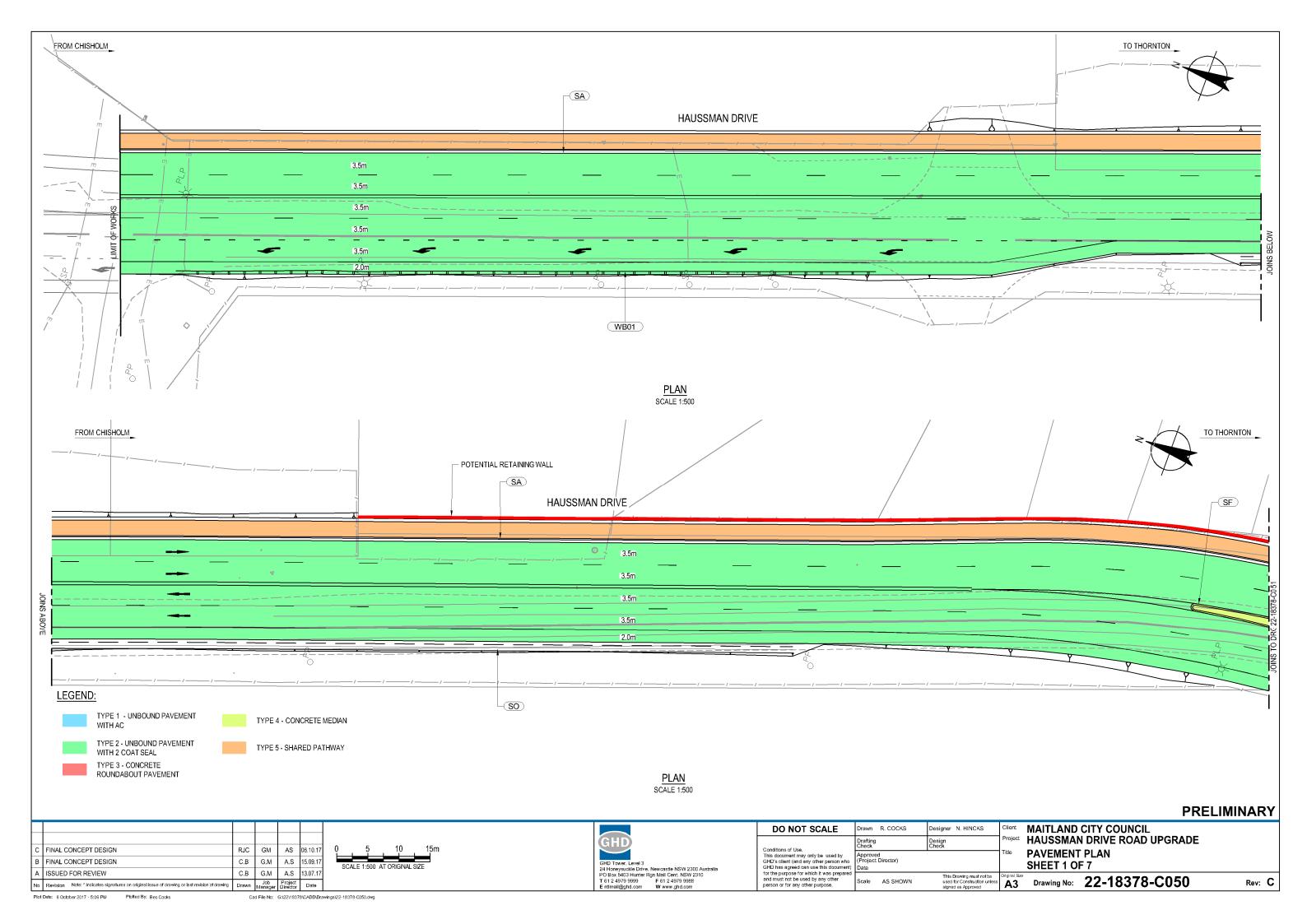


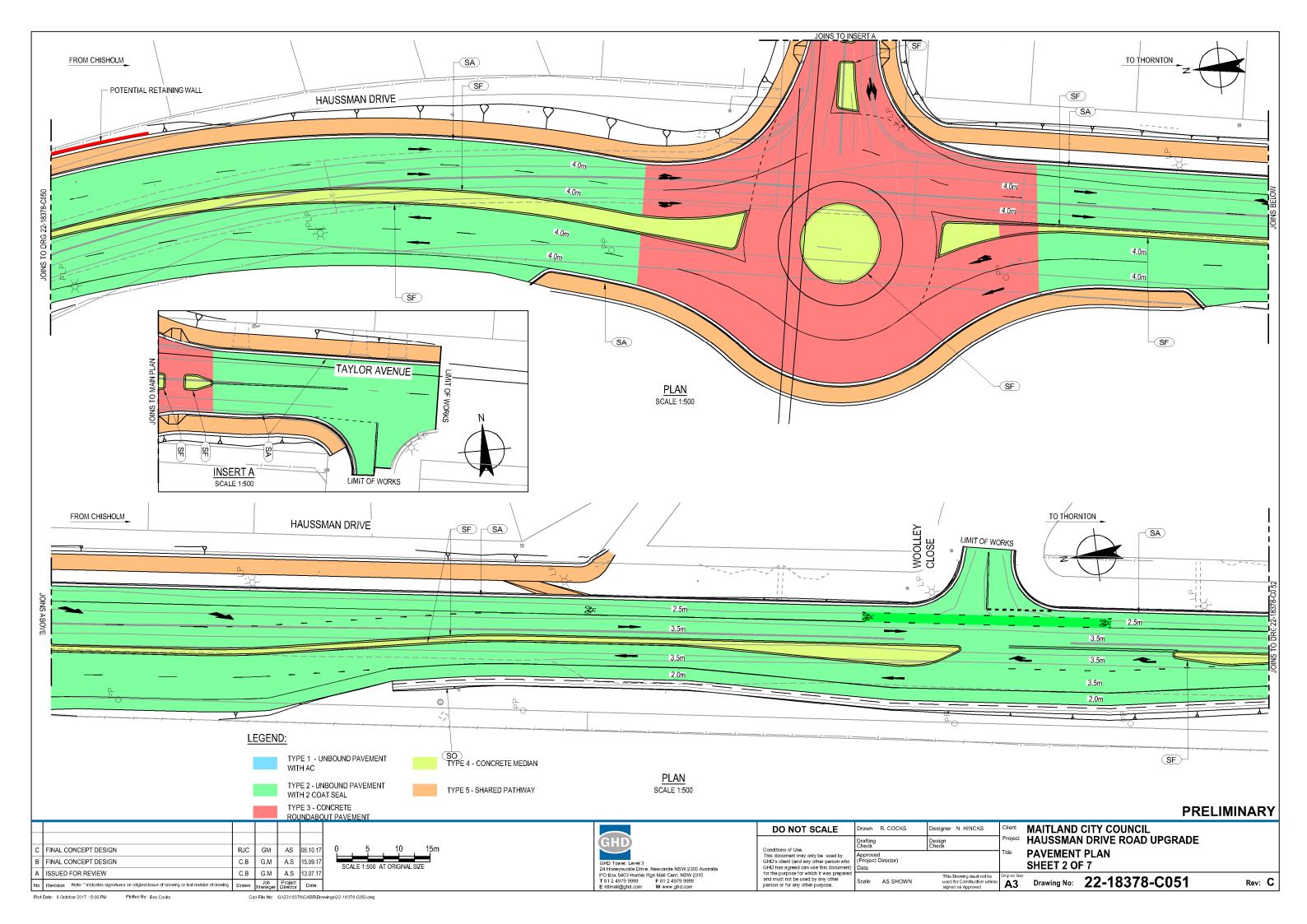


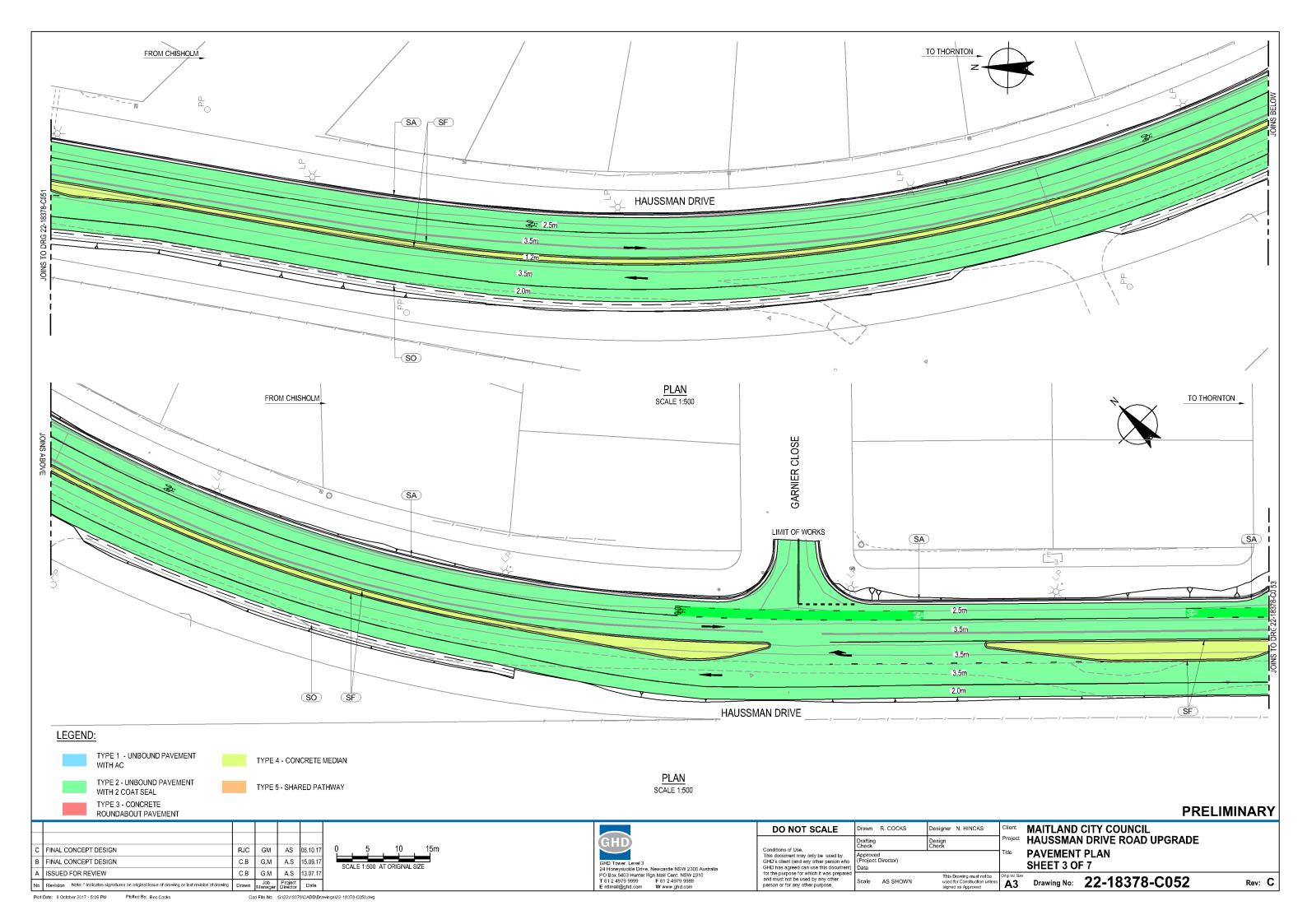


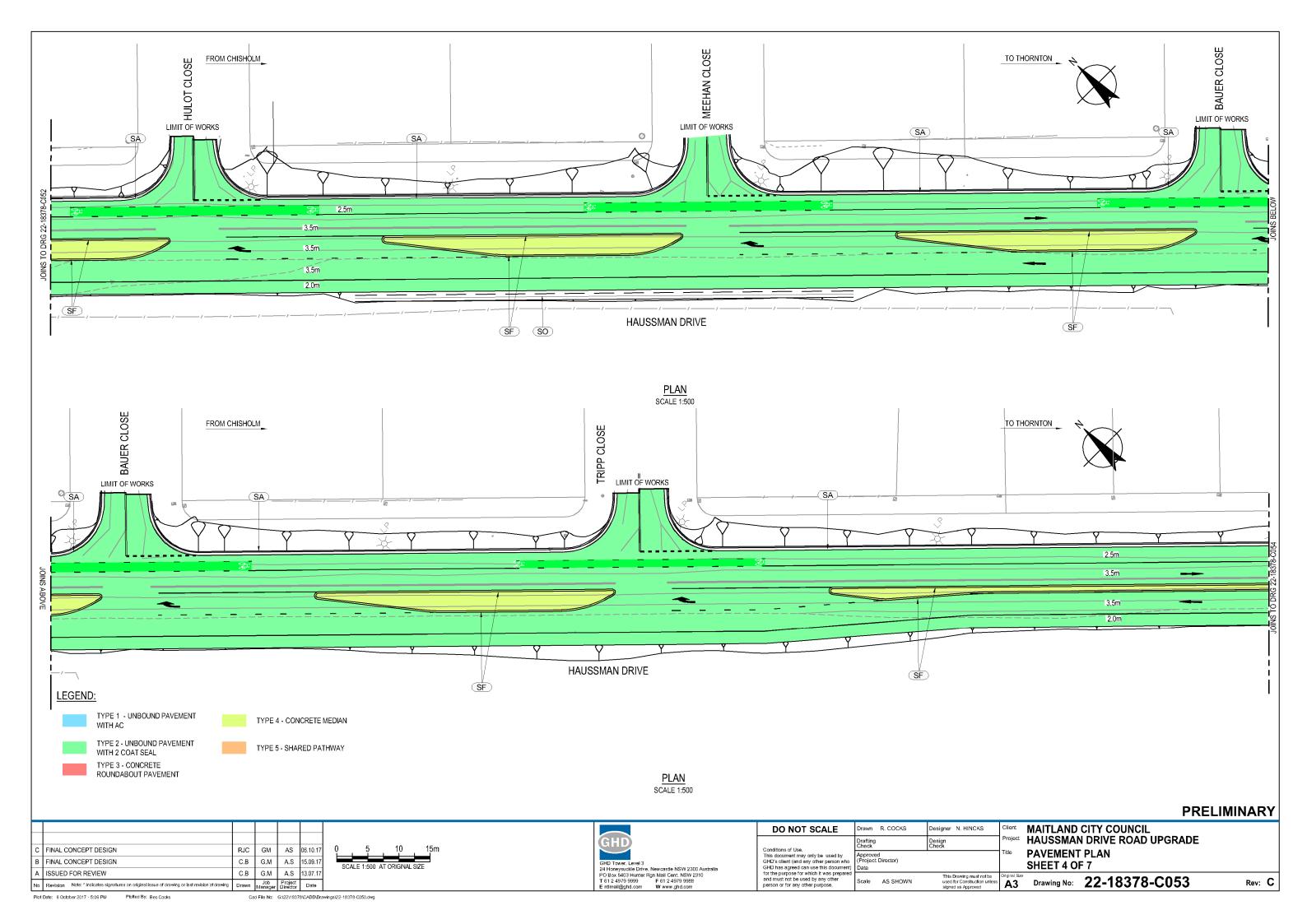


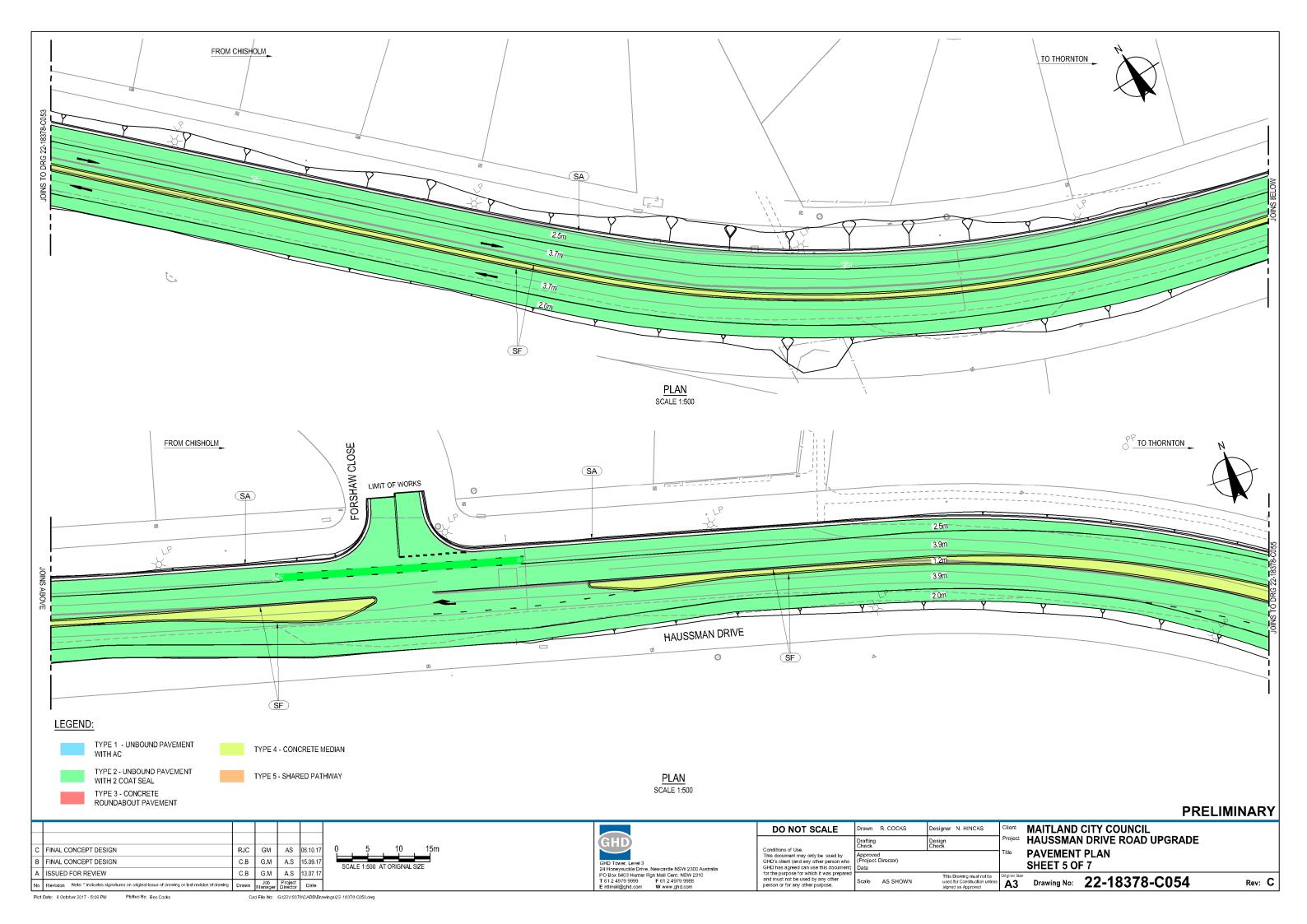


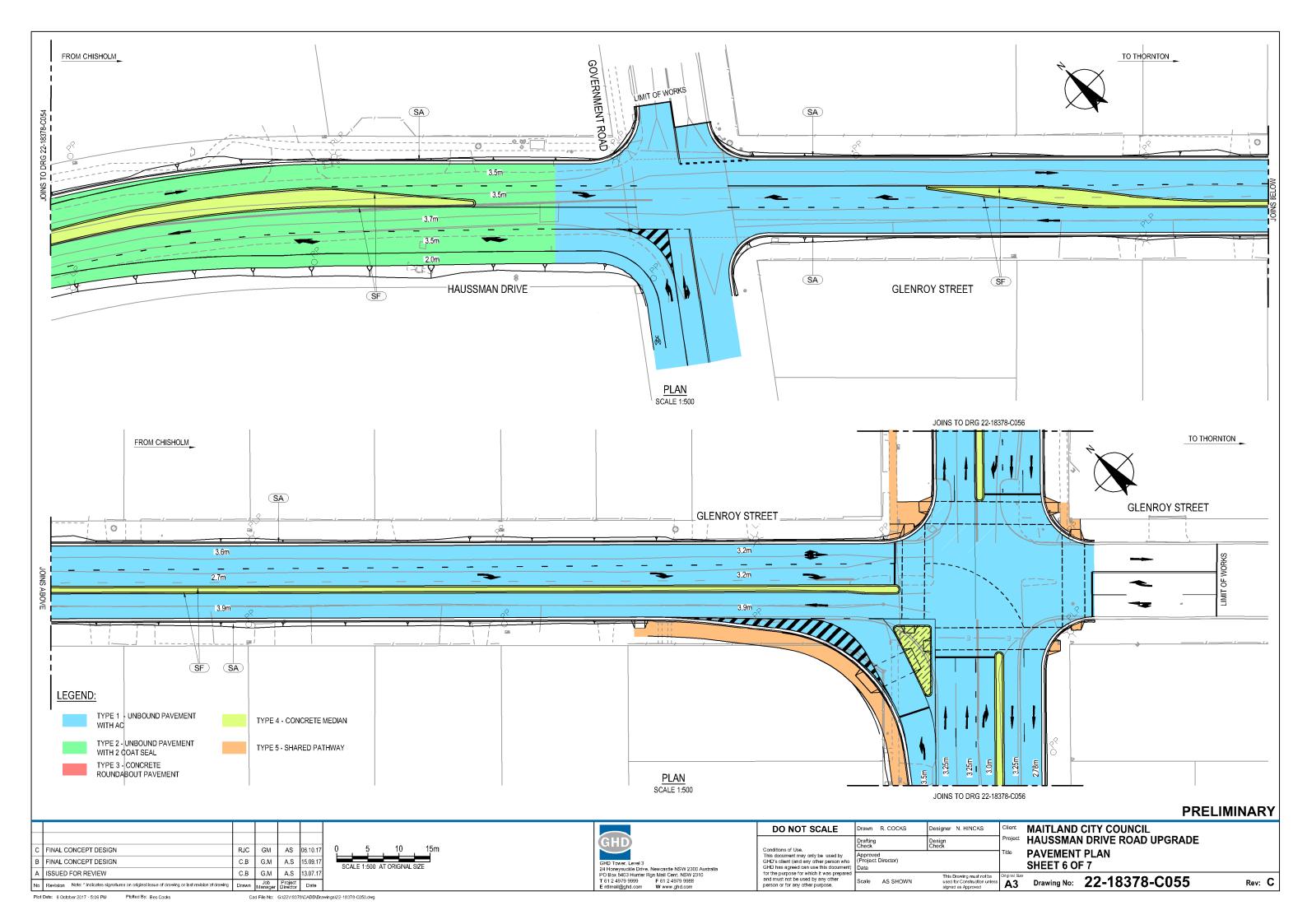


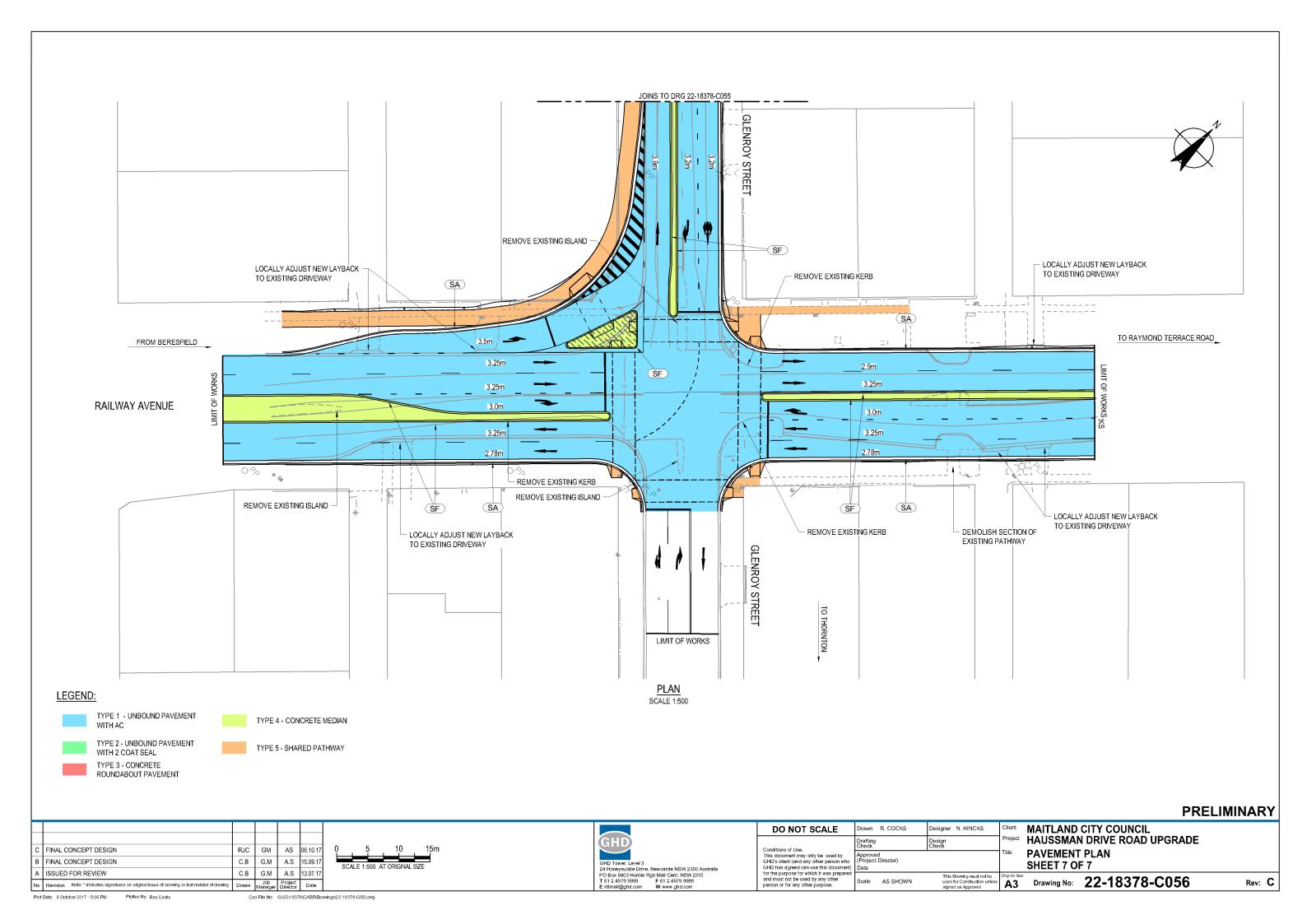


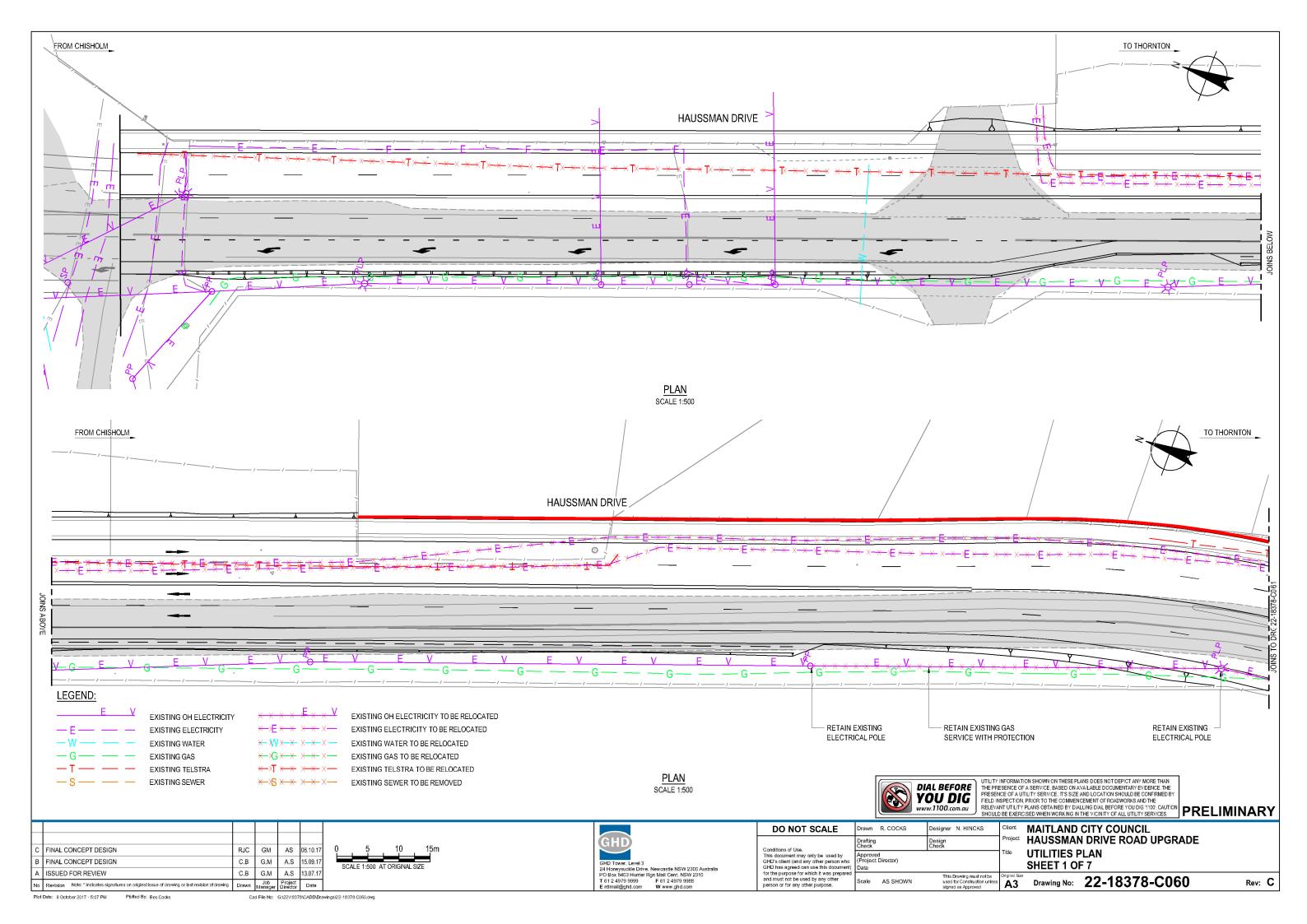


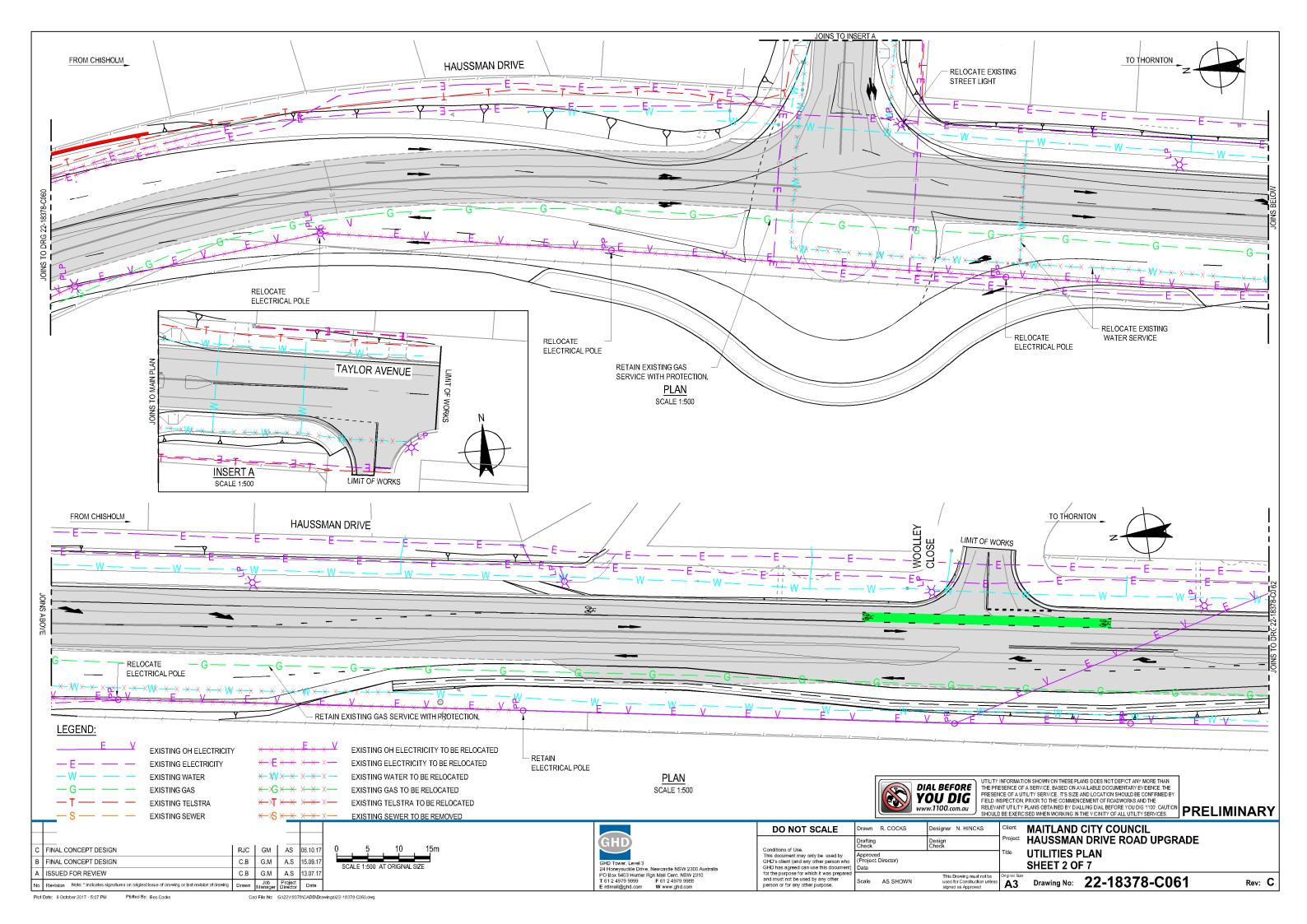


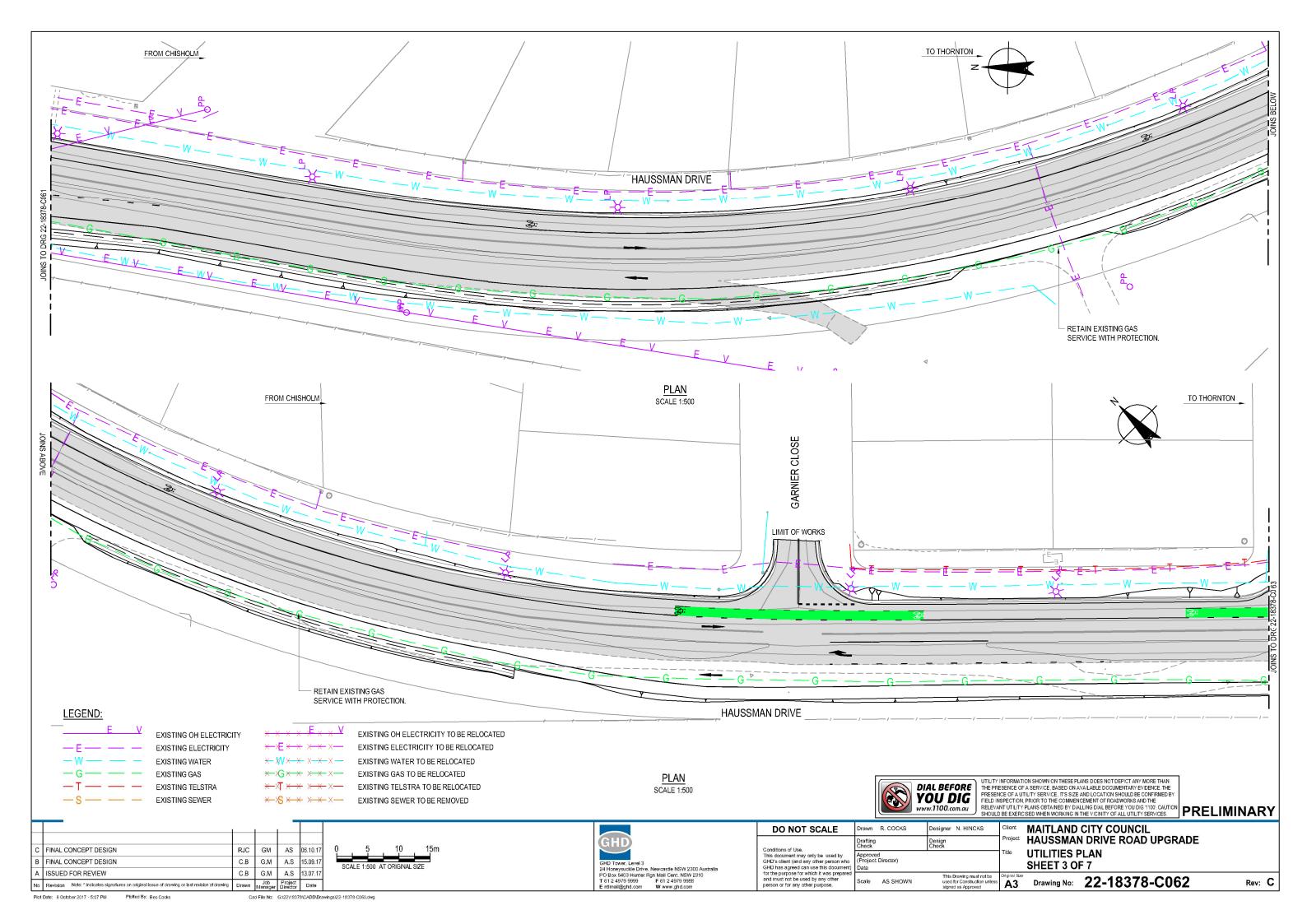


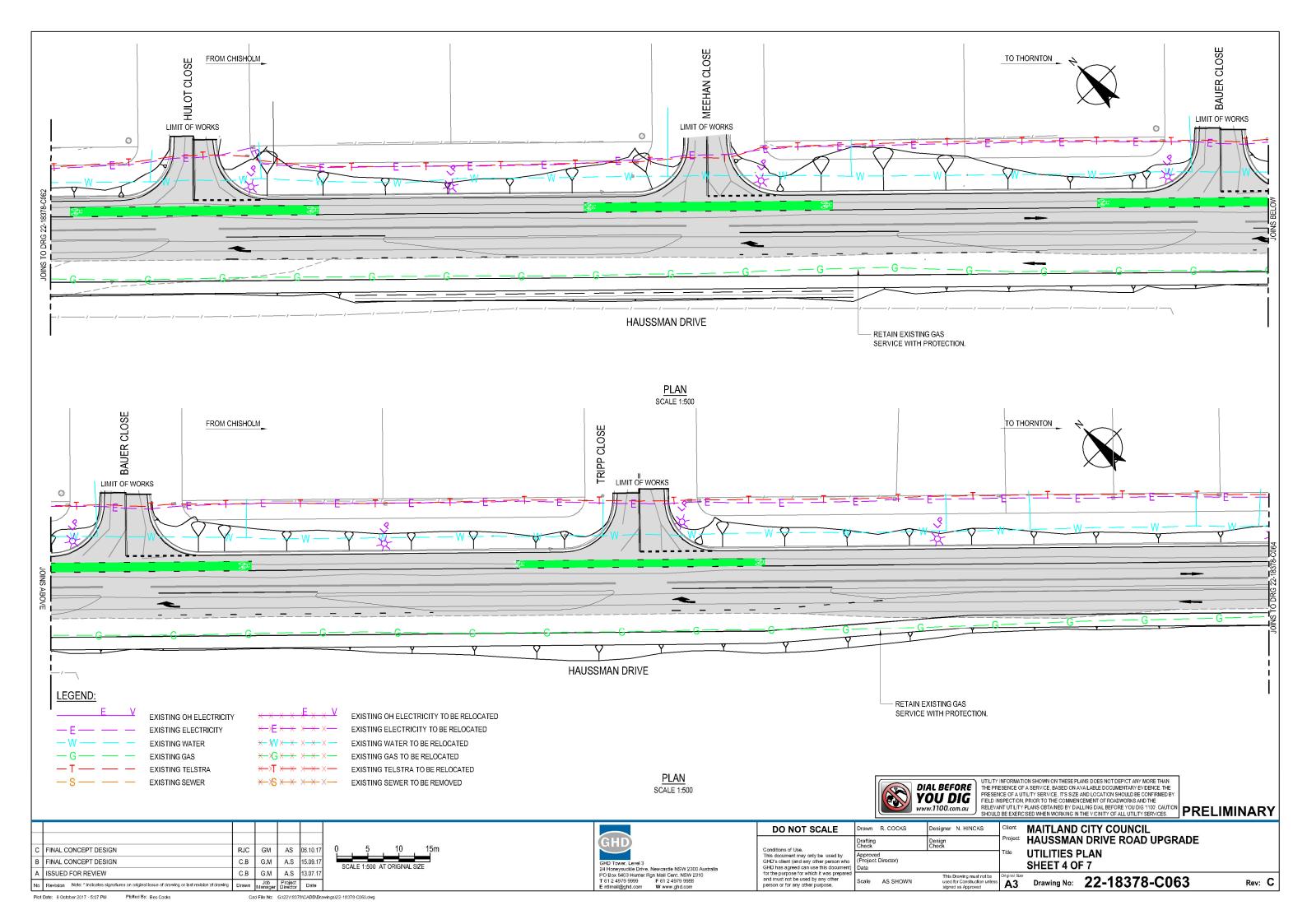


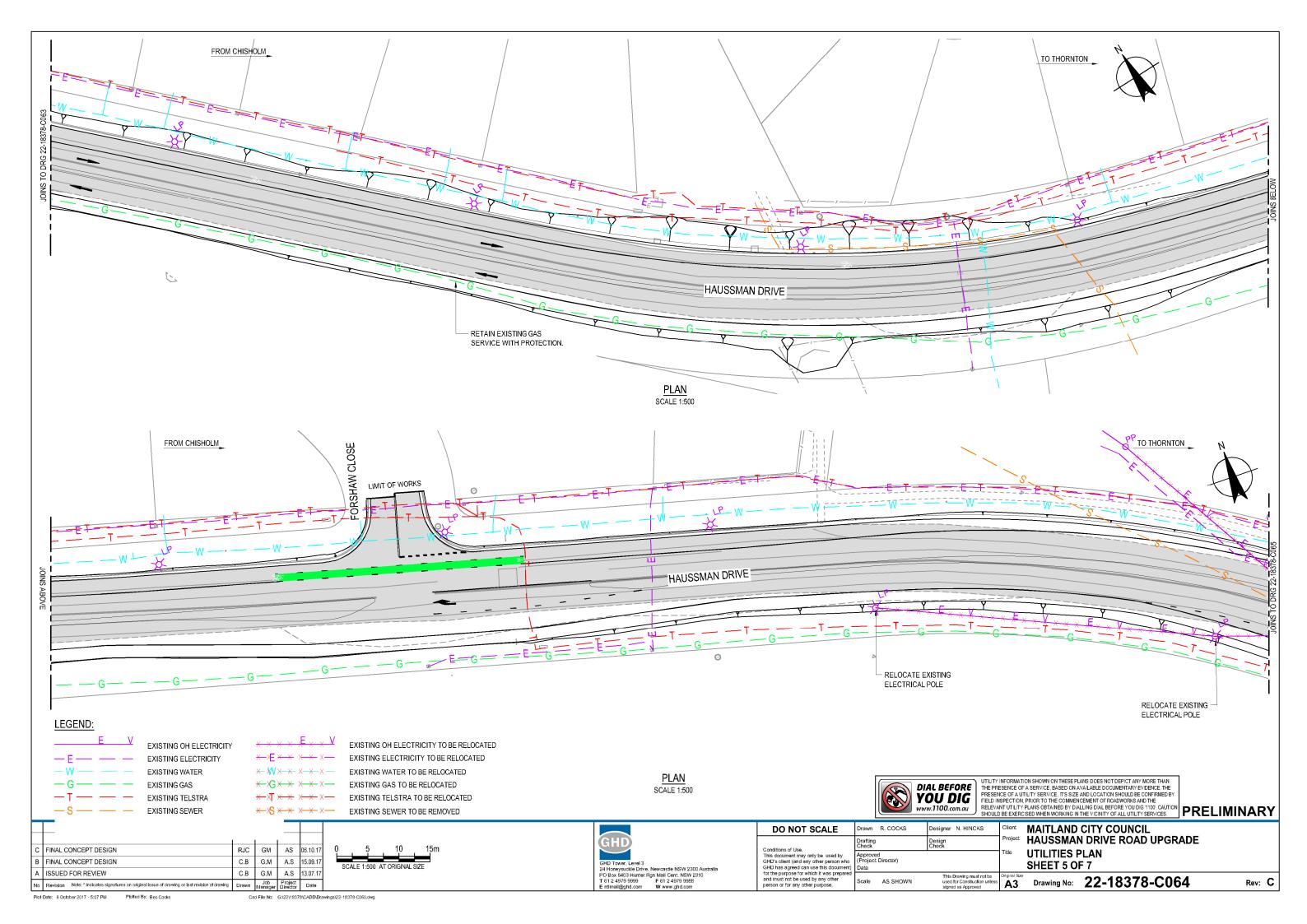


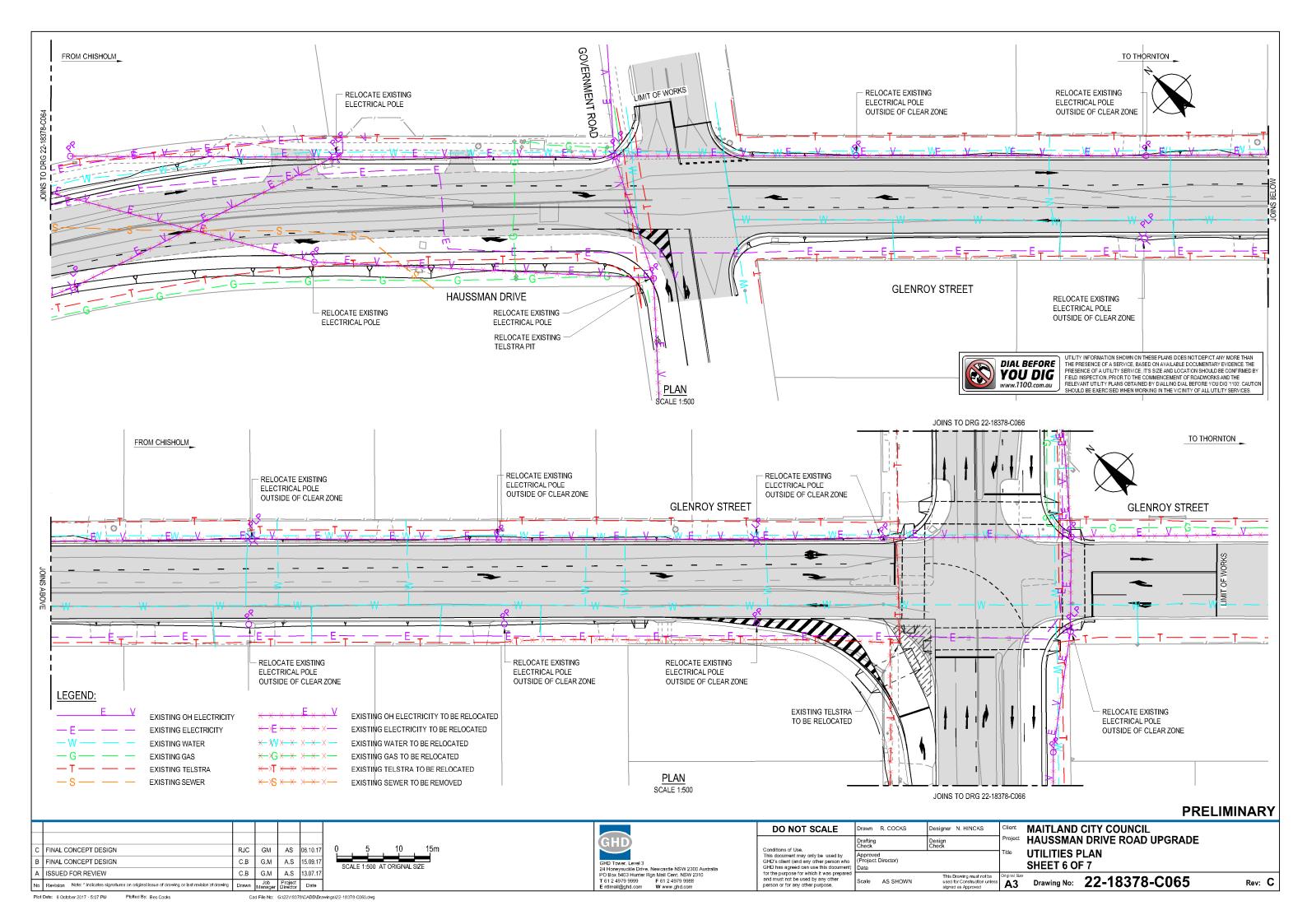


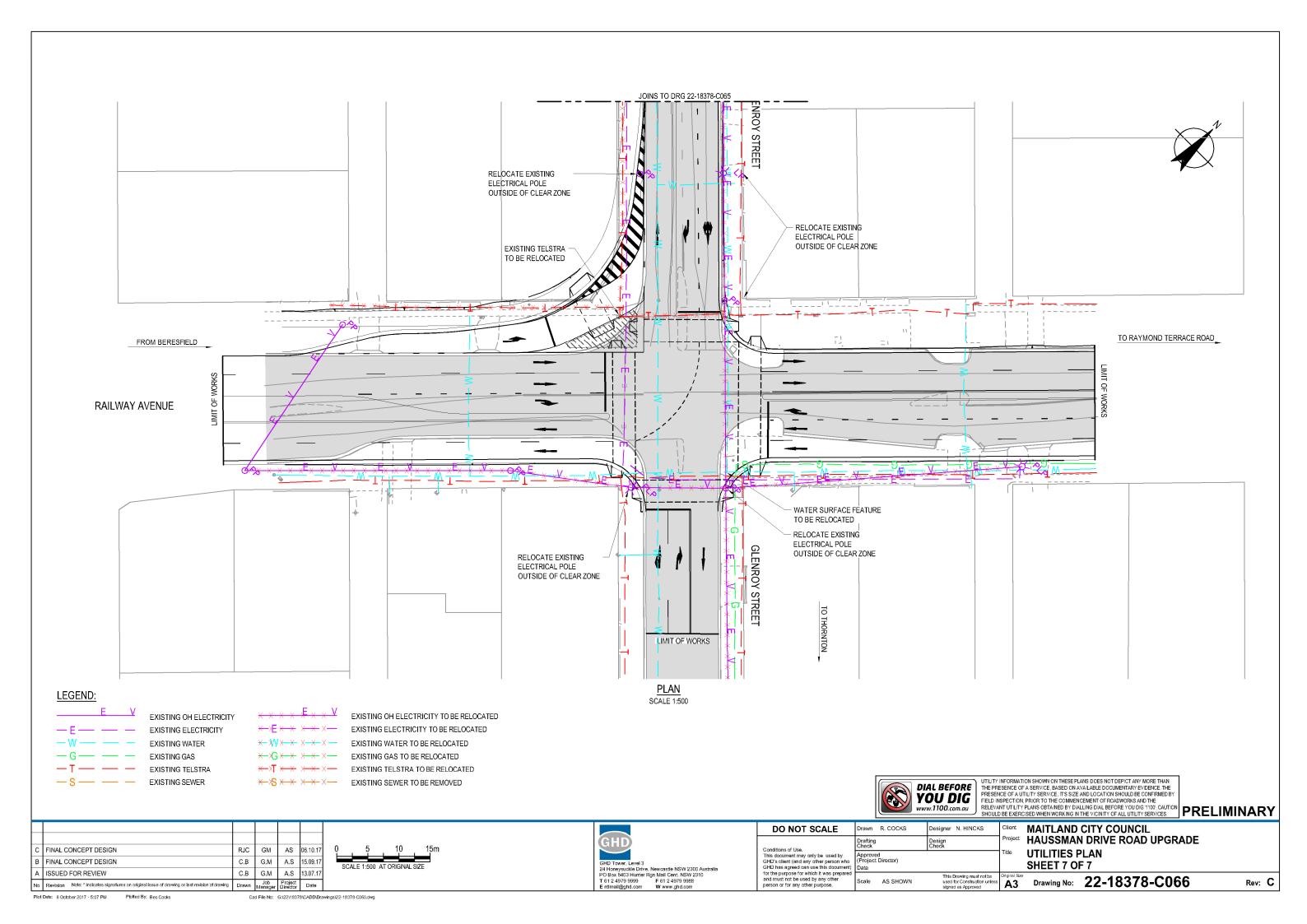


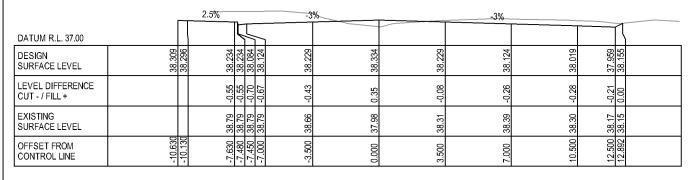












CH 30

			2.5%	_			-3	3%			-3%			105	
DATUM R.L. 36.00				Ĺ		_									
DESIGN SURFACE LEVEL	37.809	37.797			37.585		37.730		37.835	37.730	37.624		37.459	37.869	
LEVEL DIFFERENCE CUT - / FILL +			-0.66	-0.65	-C.80	-0.73	-0.43		0.12	-0.08	-0.27	-0.29	-0.28	00.0	
EXISTING SURFACE LEVEL					38.39		38.16	1	37.71	37.81	37.89			37.87	
OFFSET FROM CONTROL LINE	-10.630	-10.130	-7.630		-7.450	-7.000	-3.500		0.000	3.500	2.000	10.500	12.500	13.319	

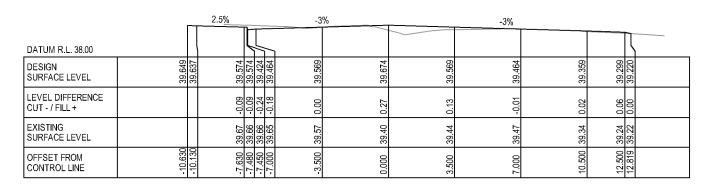
CH 20

	_	2.5%		-3%			-3%			
DATUM R.L. 36.00		T								`
DESIGN SURFACE LEVEL	37.309 37.297	37.234	37.285 37.285 37.125	37.230	37.335	37.230	37.124		36.359	2
LEVEL DIFFERENCE CUT - / FILL +			96.0-	-0.47	0.26	0.01	-0.16	-0.17	-0.07	8.
EXISTING SURFACE LEVEL		%	38.05	37.70	37.08	37.22	37.29	37.19	37.03	2
OFFSET FROM CONTROL LINE	-10.630 -10.130	-7.630	-7.480 -7.450 -7.000	-3.500	0.000	3.500	7.000	10.500	12.500 12.500	20.4

CH 10

_		2.5%	3%	-3%								
DATUM R.L. 35.00												
DESIGN SURFACE LEVEL	36.809 36.797	36.734 36.734 36.584 36.625	36.729	36.834	36.729	36.624	36.519	36.459				
LEVEL DIFFERENCE CUT - / FILL +	-0.83	-0.91 -0.91 -1.06 -0.99	-0.18	0.43	0.14	-0.01	-0.03	-0.00				
EXISTING SURFACE LEVEL	37.64 37.62	37.64 37.64 37.64 37.64 37.61	36.91	36.41	36.59	36.64	36.55	36.46				
OFFSET FROM CONTROL LINE	-10.630	-7.630 -7.480 -7.450 -7.000	-3.500	0.000	3.500	000.7	10.500	12.500				

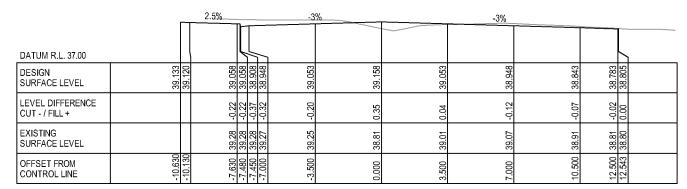
CH 0



CH 70

		2.5%	-3%			-3%		
DATUM R.L. 38.00								
DESIGN SURFACE LEVEL	39.430 39.417	39.355 39.355 39.205 39.245	39.350	39.455	39.350	39.245	39.140	39.080
LEVEL DIFFERENCE CUT - / FILL +		-0.12 -0.11 -0.26 -0.21	-0.07	0.28	0.07	-0.06	0.01	00.00
EXISTING SURFACE LEVEL		39.47 39.47 39.46 39.46	39.42	39.17	39.28	39.30	39.13	39.02
OFFSET FROM CONTROL LINE	-10.630	-7.630 -7.480 -7.450 -7.450	-3.500	0.000	3.500	7.000	10.500	12.500

CH 60



CH 50

	_	2.5%		3	%		3%			
DATUM R.L. 37.00										
DESIGN SURFACE LEVEL	38.759	38.684	38.584 38.534 38.574	38.679	38.784	38.679	38.574	38.469		30.300
LEVEL DIFFERENCE CUT - / FILL +		-0.37	-0.37 -0.52 -0.49	-0.25	0.41		-0.22	-0.18	-0.18	20.0
EXISTING SURFACE LEVEL			39.06 39.06	38.93	38.38	38.72	 	38.64	38.59	20.30
OFFSET FROM CONTROL LINE	-10.630	-10.130	-7.480 -7.450 -7.000	-3.500	0.000	3.500		10.500	12.500	12.02.1

CH 40

CROSS SECTIONS HAUSSMAN DRIVE SCALE 1:200

PRELIMINARY

Rev: C

С	FINAL CONCEPT DESIGN	RJC	GM	AS	06.10.1
В	FINAL CONCEPT DESIGN	C.B	G.M	A.S	15.09.1
Α	ISSUED FOR REVIEW	C.B	G.M	A.S	13.07.1
No	Revision Note: * indicates signatures on original issue of drawing or last revision of drawing	Drawn	Job Manager	Project Director	Date



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MAITLAND CITY COUNCIL HAUSSMAN DRIVE ROAD UPGRADE **CROSS SECTIONS - HAUSSMAN DRIVE** SHEET 1 OF 35



CROSS SECTIONS - HAUSSMAN DRIVE

Rev: C

Drawing No: 22-18378-C071

SHEET 2 OF 35

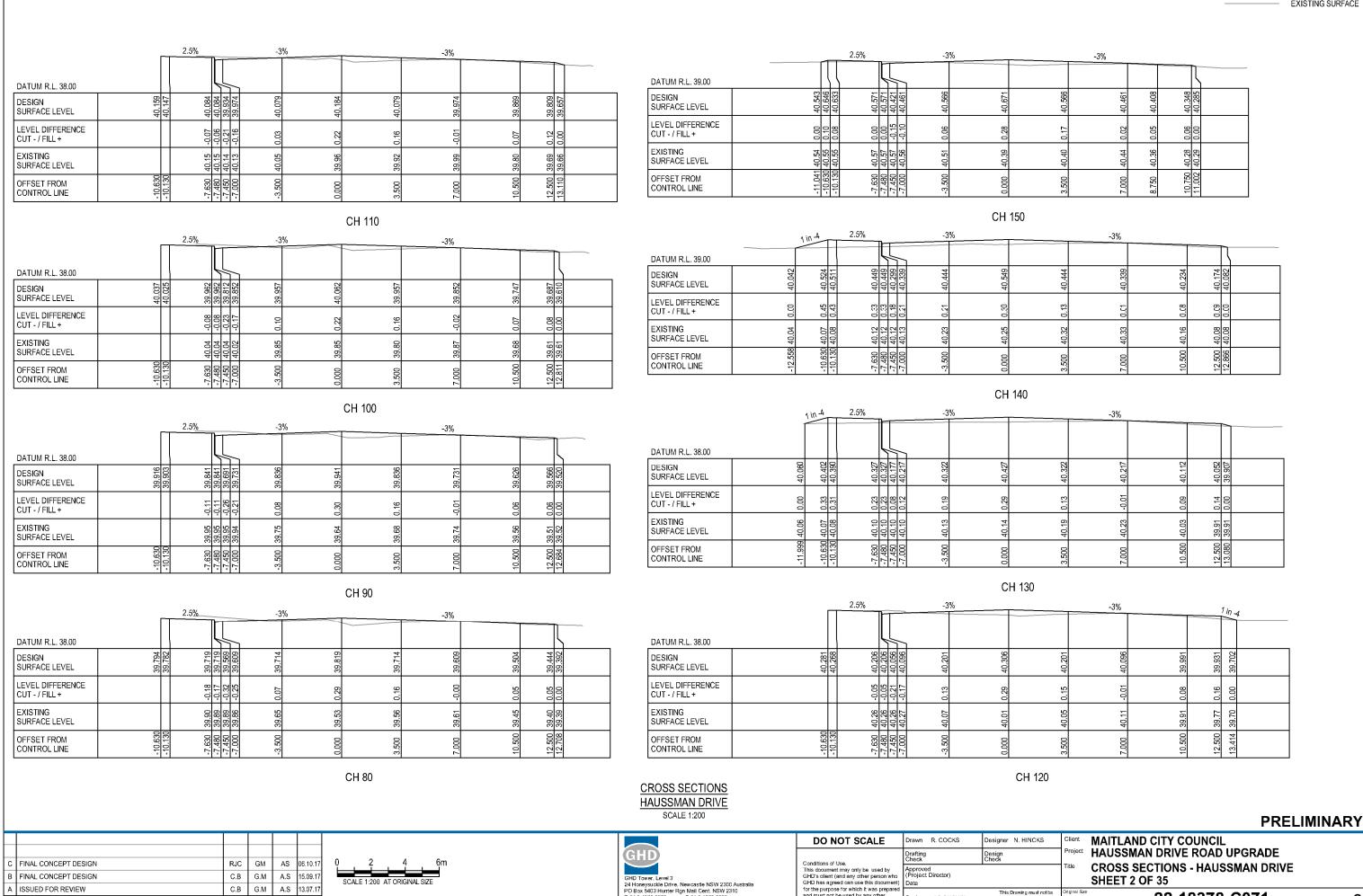
Approved (Project Director)

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DESIGN SURFACE EXISTING SURFACE



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FINAL CONCEPT DESIGN

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A I ISSUED FOR REVIEW

G.M A.S

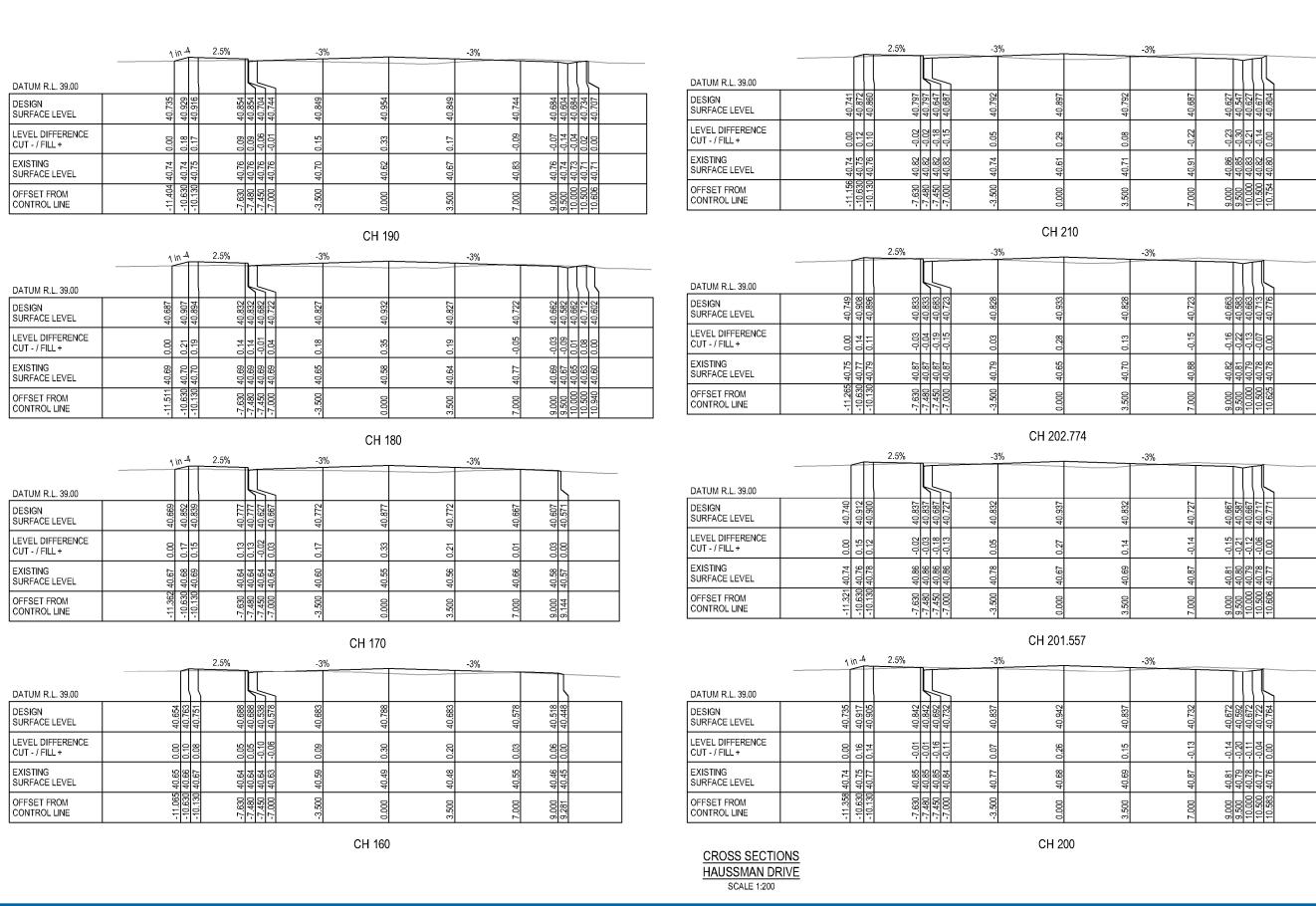
C.B G.M A.S 13.07.17

15.09.17

SCALE 1:200 AT ORIGINAL SIZE

C.B





PRELIMINARY

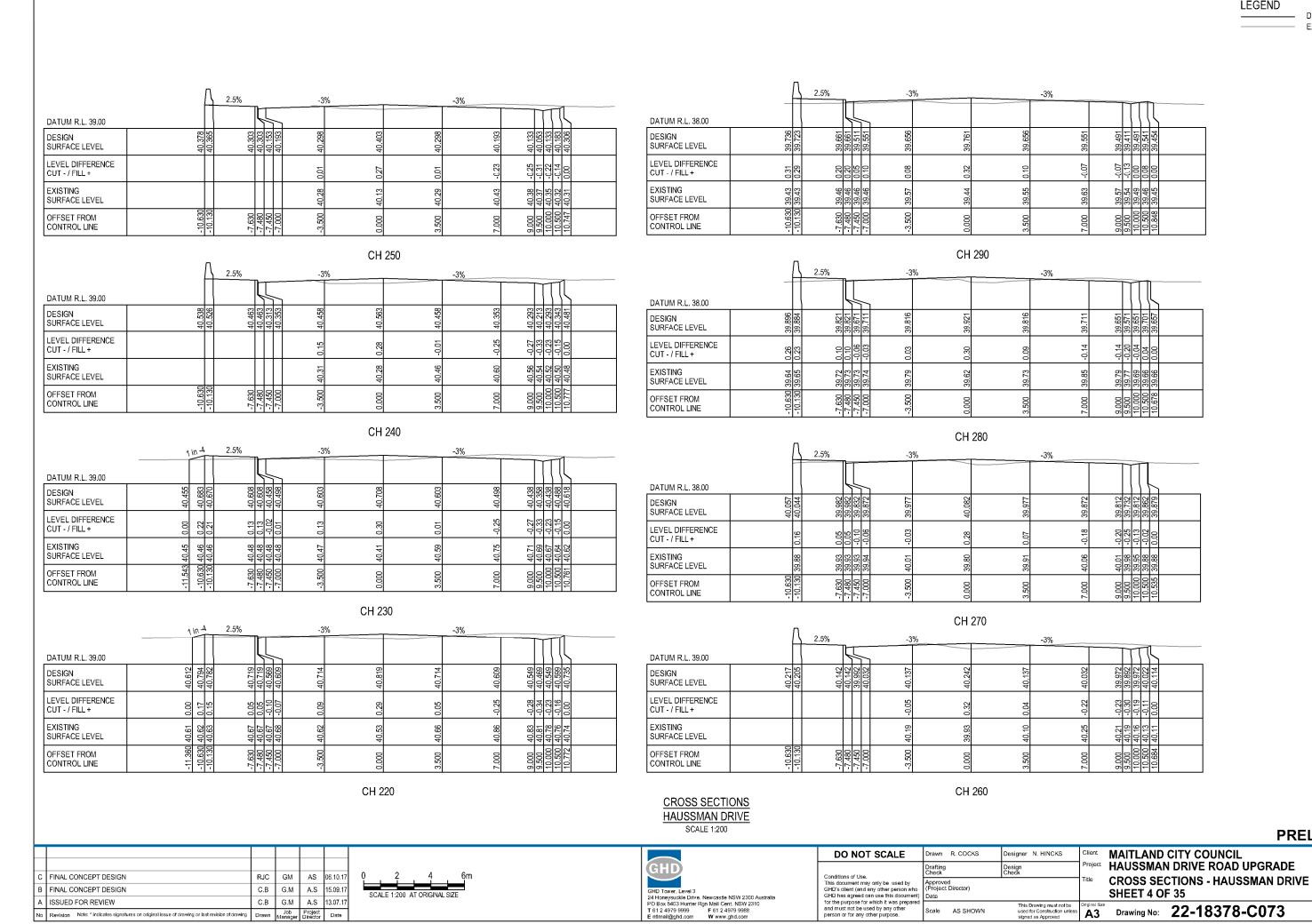


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MAITLAND CITY COUNCIL HAUSSMAN DRIVE ROAD UPGRADE CROSS SECTIONS - HAUSSMAN DRIVE SHEET 3 OF 35





Drawing No: 22-18378-C073

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PRELIMINARY

Rev: C

No Revision Note: * indicates signatures on original issue of drawing or last revision of drawing Drawn Job Project Date Cad File No: G:\22\18378\CADD\Drawings\22-18378-C070.dwg

ISSUED FOR REVIEW

Plot Date: 6 October 2017 - 5:08 PM



SHEET 5 OF 35

Drawing No: 22-18378-C074

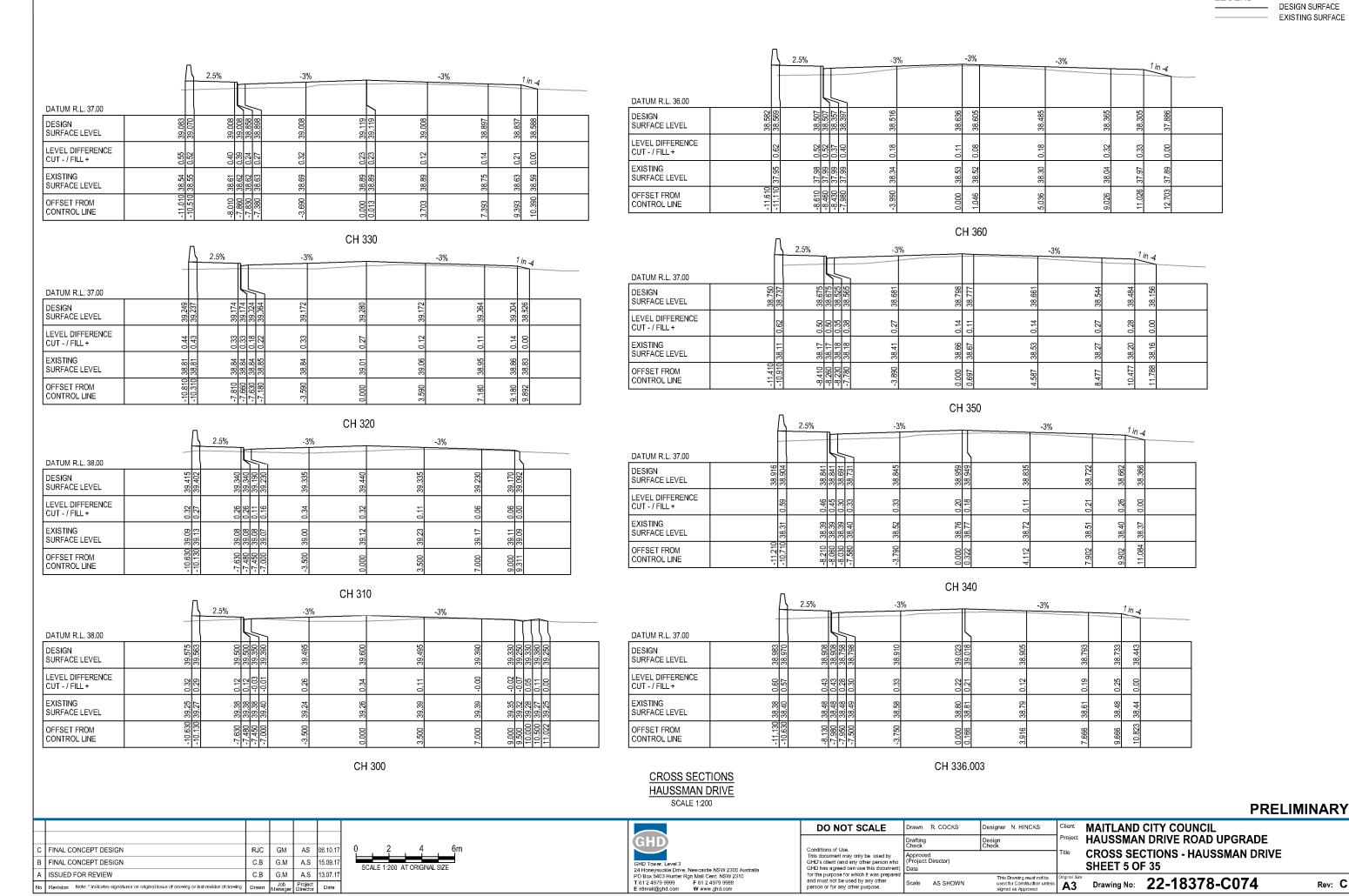
Rev: C

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cale AS SHOWN

and must not be used by any other person or for any other purpose.

DESIGN SURFACE EXISTING SURFACE



15.09.17

C.B G.M A.S 13.07.17

SCALE 1:200 AT ORIGINAL SIZE

FINAL CONCEPT DESIGN

No Revision Note: * indicates signatures on original issue of drawing or last revision of drawing

A ISSUED FOR REVIEW



		2.5%	-3% -3.9%	-3%	
DATUM R.L. 36.00					
DESIGN SURFACE LEVEL	37.780 37.780	37.671 37.671 37.521 37.561	37.801 37.831 37.931 37.931	37.865 37.735 37.735 37.735 37.735	
LEVEL DIFFERENCE CUT - / FILL +	0.00	-0.20 -0.20 -0.35 -0.34	0.01 0.04 0.15 0.15	0.09	
EXISTING SURFACE LEVEL	37.78 37.78	37.	37.79 37.79 37.78 37.78 37.78	37.64 37.64 37.64	
OFFSET FROM CONTROL LINE	-11.270 -11.130		0.000 0.010 0.170 0.240	2.160 2.160 2.170 2.173	

		CH 400											
		1 in -4	2.5%		-3'	%1	-4% F	h			-3%		
DATUM R.L. 36.00													~
DESIGN SURFACE LEVEL	37.655	1 . 4. 4		37.910 37.760 37.800	37.920	38.039	38.069 38.169 38.169	38.112	37.981	37.862	37.742	37.682	
LEVEL DIFFERENCE CUT - / FILL +	0.00	0.31	0.12	0.12 -0.03 -0.01	-0.20	<u>50.0</u>	0.08 0.19 0.19	0.22	0.11	0:30	0.19	0.23	
EXISTING SURFACE LEVEL	37.65	37.		37.79 37.79 37.81	38.12	37.99	37.99 37.98 37.98	37.89 37.88	37.87	37.57	37.55	37.45	
OFFSET FROM CONTROL LINE	-12.950	-11.630 -11.130	-8.630	-8.480 -8.450	-4.000	0.000	0.010 0.170 0.240	1.691	1.931	5.931	9.931	11.931	

		CH 390														
	ļ	7	2.5%		3	%f	-4.; F	2%	—				-3%			
															7	
DATUM R.L. 36.00		1	12	~	1	l 1	5	۳,	1		_	٦				
DESIGN SURFACE LEVEL	38.203	38.191	38.128 38.128	37.5/8 38.C18	38.138		38.788	38.38	38.338	38.338	38.238	38.208		4	37.508	
LEVEL DIFFERENCE CUT - / FILL +	0.42		0.26	0.11	-0.09	0.05	0.08	0.19	0.21	0.22	0.13	0.10			0.26	
EXISTING SURFACE LEVEL	37.79		37.87 37.87	37.87 37.88	38.23	38.21	38.21	38.20	38.13	38.12	38.11	38.11		-1	37.65	
OFFSET FROM CONTROL LINE	-11.630	-11.130	-8.630 -8.480			0000	0.010	0.170	1.424	1.494	1.654	1.664	799	5000	11.664	

					CH:	380					
	ŀ	2.5%	<u></u>	-3	<u>%</u>	-4.6%		-3%		1 in -4	
DATUM R.L. 36.00				1							-
DESIGN SURFACE LEVEL	38.402	38.390	38.327 38.327 38.177	38.337	38.457	38.487 38.587 38.587	38.546 38.546 38.446 38.416	38.176	38.116	37.826	
LEVEL DIFFERENCE CUT - / FILL +	0.56	0.53	0.37	-0.01	0.08	0.21	0.09	0.37	0.31	0.00	
EXISTING SURFACE LEVEL	37.84	· ·	37.95 37.96 37.96 37.96	38.34	38.38	88 88 88	38.33	37.81			
OFFSET FROM CONTROL LINE	-11.630	-11.130	-8.630 -8.480 -8.450	-4.000	0000	0.010	1.128	9.368	11.368	12.530	

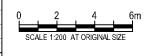
CH 370

CROSS SECTIONS
HAUSSMAN DRIVE
SCALE 1:200

PRELIMINARY

Rev: C

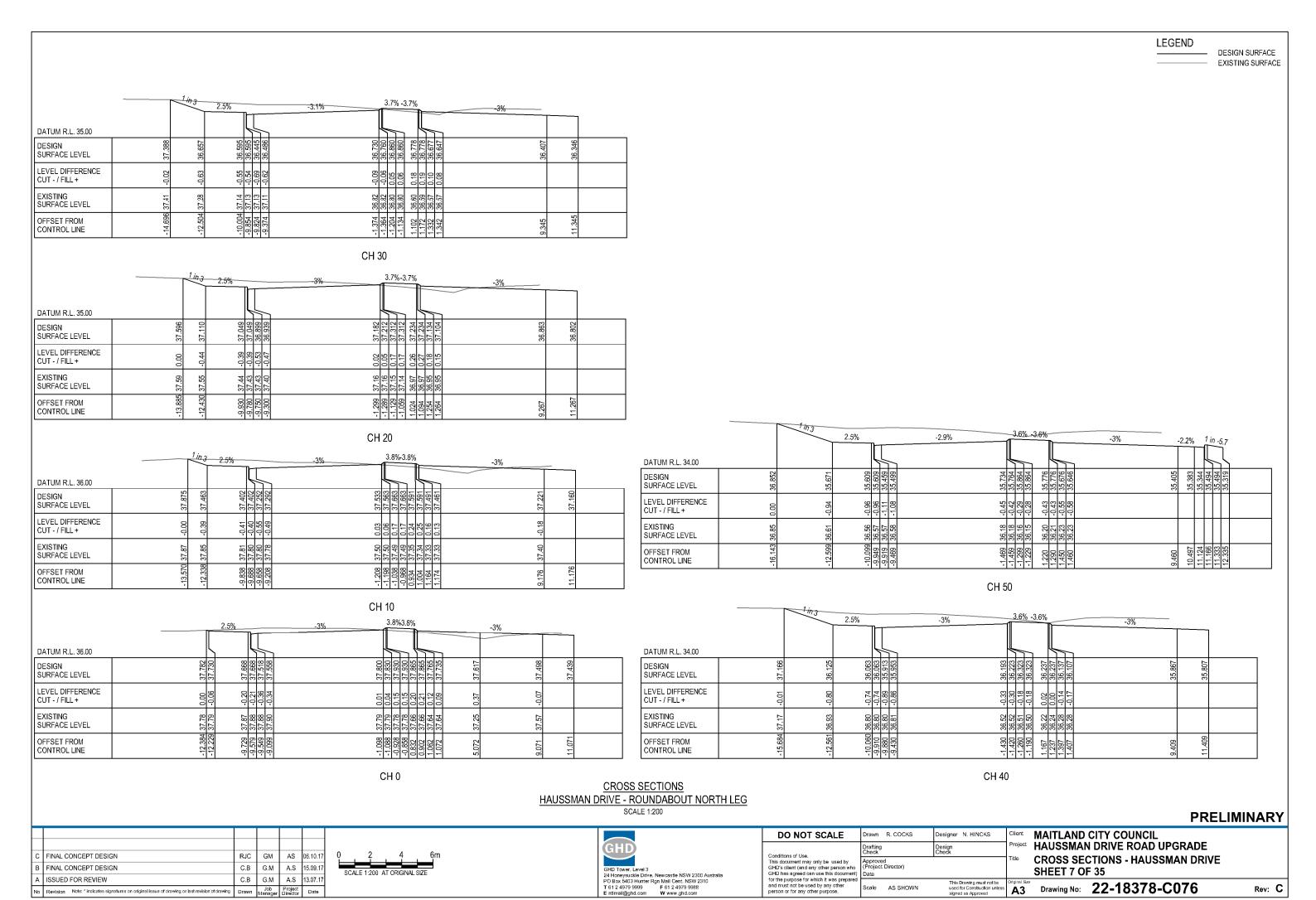
С	FINAL CONCEPT DESIGN	RJC	GM	AS	06.10.17		
В	FINAL CONCEPT DESIGN	C.B	G.M	A.S	15.09.17		
Α	ISSUED FOR REVIEW	C.B	G.M	A.S	13.07.17		
No	Revision Note: * indicates signatures on original issue of drawing or last revision of drawing	Drawn	Job Manager	Project Director	Date		
Diet	Plot Date: 6 October 2017, 5:00 DM Pinted By: Pon Code						



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MAITLAND CITY COUNCIL
HAUSSMAN DRIVE ROAD UPGRADE
CROSS SECTIONS - HAUSSMAN DRIVE
SHEET 6 OF 35



Plot Date: 6 October 2017 - 5:08 PM Plotted By: Bec Cocks Cad File No: G:322\18378\CADD\Drawings\22-18378-C070.dwg

		1 in 3	2.7%	-2.7% 2.4% -2	2.4%	-3% 3%
DATUM R.L. 34.00						
DESIGN SURFACE LEVEL	36.221	35.491	35.422 35.421 35.271 35.310	35.539 35.569 35.669 35.669	35.597 35.597 35.497 35.467	35.201 35.163 35.314 35.314 35.392 35.408
LEVEL DIFFERENCE CUT - / FILL +	0.00	-0.61	-0.70 -0.70 -0.85 -0.80	-0.24 -0.22 -0.13	-0.39 -0.40 -0.50 -0.53	
EXISTING SURFACE LEVEL	36.22	36.10	36.12 36.12 36.12 36.11	35.78 35.78 35.80 35.81	35.99 35.99 36.00 36.00	
OFFSET FROM CONTROL LINE	-15.370	-13.160	-10.630 -10.479 -10.448 -9.994	-1.46 -1.285 -1.215	1.765 1.835 1.996 2.006	11.002 11.471 11.503 11.628 14.243 14.788

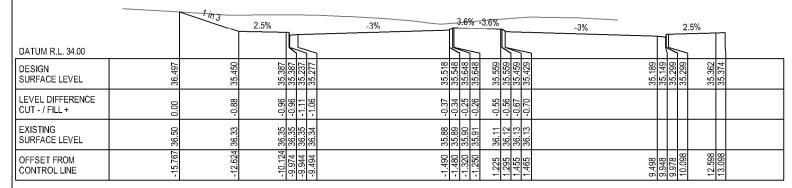
CH 70

		1 in 3	2.5%	-2.8%	2.5%
DATUM R.L. 34.00					
DESIGN SURFACE LEVEL	36.376	35.439	35.376 35.226 35.226 35.266	35.499 35.529 35.629 35.629 35.543 35.543 36.443 36.443	35.165 35.125 35.275 35.275 35.338 35.338
LEVEL DIFFERENCE CUT - / FILL +	0.00	-0.79	-0.87 -0.87 -1.01 -0.97	0.035 0.024 0.024 0.054 0.055 0.055 0.055	
EXISTING SURFACE LEVEL	36.38	36.23	36.24 36.24 36.24 36.23	35.85 35.85 35.87 35.87 36.08 36.09 36.09 36.09	
OFFSET FROM CONTROL LINE	-15.519	-12.703	-10.203 -10.053 -10.023 -9.573	-1.363 -1.153 -1.123 -1.123 -1.365 -1.595 -1.605	9.872 10.328 10.358 10.480 13.012 13.012

CH 64.914

		1 in 3	2.5%	-3%	
DATUM R.L. 34.00					
DESIGN SURFACE LEVEL	36.483	35.446	35.384 35.384 35.234 35.274	35.514 35.544 35.644 35.644 35.556 35.556 35.456 35.426	35.186 35.146 35.296 35.296 35.396 35.358
LEVEL DIFFERENCE CUT - / FILL +	0:00		-0.95 -0.95 -1.10	-0.37 -0.25 -0.26 -0.56 -0.56 -0.56 -0.56 -0.56	
EXISTING SURFACE LEVEL	36.48	ان ان	36.34 36.34 36.34 36.33 36.33	35.88 35.90 35.90 36.11 36.12 36.13 36.13	
OFFSET FROM CONTROL LINE	-15.744	-12.629	-10.129 -9.979 -9.949 -9.499	-1,490 -1,320 -1,250 -1,219 1,219 1,449 1,449	9.499 9.949 9.979 10.099 12.599 13.099

CH 60.349



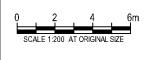
CH 60

CROSS SECTIONS HAUSSMAN DRIVE - ROUNDABOUT NORTH LEG

SCALE 1:200

PRELIMINARY

С	FINAL CONCEPT DESIGN	RJC	GM	AS	06.10.17
В	FINAL CONCEPT DESIGN	C.B	G.M	A.S	15.09.17
Α	ISSUED FOR REVIEW	C.B	G.M	A.S	13.07.17
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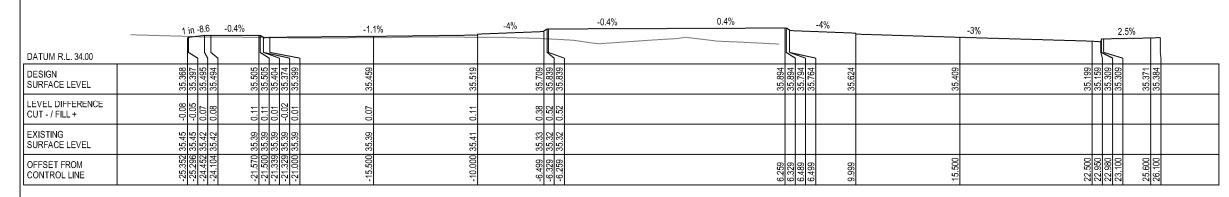
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MAITLAND CITY COUNCIL HAUSSMAN DRIVE ROAD UPGRADE CROSS SECTIONS - HAUSSMAN DRIVE SHEET 8 OF 35

Rev: C





CH 97.082 -0.2% 0.2% -1.9% -3.5% 2% DATUM R.L. 34.00 35.465 35.476 DESIGN SURFACE LEVEL LEVEL DIFFERENCE CUT - / FILL + EXISTING SURFACE LEVEL 24.601 25.121 OFFSET FROM CONTROL LINE

CH 80

CROSS SECTIONS HAUSSMAN DRIVE - ROUNDABOUT SOUTH LEG SCALE 1:200

С	FINAL CONCEPT DESIGN	RJC	GM	AS	06.10.17
В	FINAL CONCEPT DESIGN	C.B	G.M	A.S	15.09.17
Α	ISSUED FOR REVIEW	C.B	G.M	A.S	13.07.17
No	Revision Note: * indicates signatures on original issue of drawing or last revision of drawing	Drawn	Job Manager	Project Director	Date



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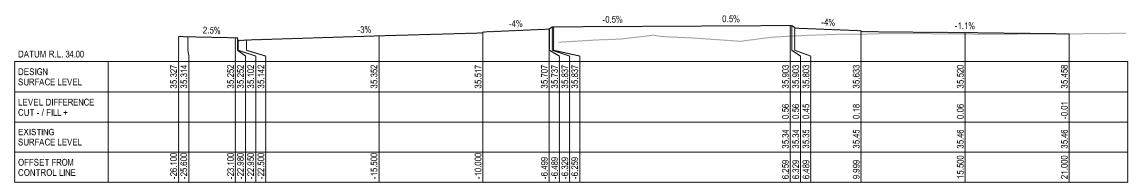
PRELIMINARY

MAITLAND CITY COUNCIL
HAUSSMAN DRIVE ROAD UPGRADE

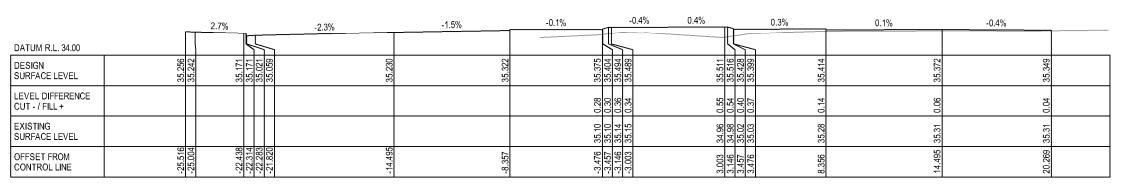
Rev: C

CROSS SECTIONS - HAUSSMAN DRIVE SHEET 9 OF 35

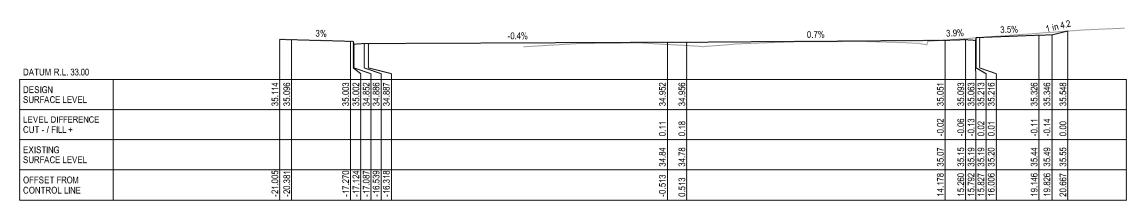
Drawing No: 22-18378-C078



CH 55.491



CH 50



CH 40

<u>CROSS SECTIONS</u> <u>HAUSSMAN DRIVE - ROUNDABOUT SOUTH LEG</u>

SCALE 1:200

PRELIMINARY

Rev: C

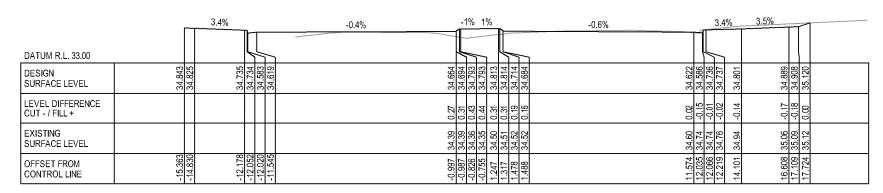
С	FINAL CONCEPT DESIGN	RJC	GM	AS	06.10.17
В	FINAL CONCEPT DESIGN	C.B	G.M	A.S	15.09.17
Α	ISSUED FOR REVIEW	C.B	G.M	A.S	13.07.17
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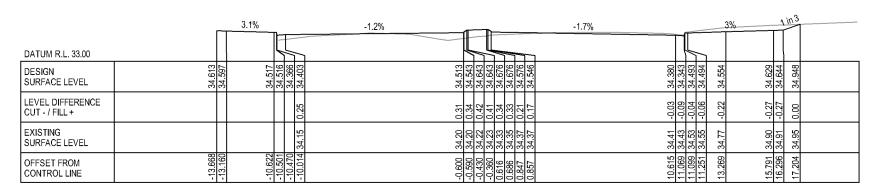
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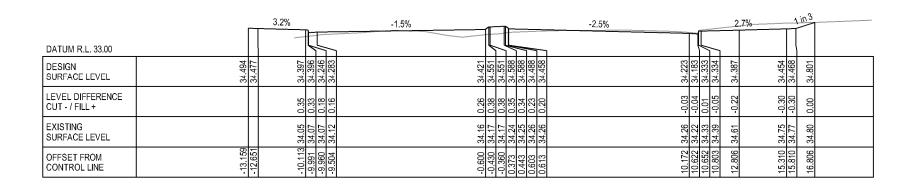
MAITLAND CITY COUNCIL HAUSSMAN DRIVE ROAD UPGRADE CROSS SECTIONS - HAUSSMAN DRIVE SHEET 10 OF 35



CH 30



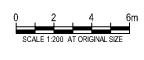
CH 23.837



CH 20

CROSS SECTIONS HAUSSMAN DRIVE - ROUNDABOUT SOUTH LEG SCALE 1:200

AS FINAL CONCEPT DESIGN GM 06.10.17 C.B G.M A.S 15.09.17 FINAL CONCEPT DESIGN A ISSUED FOR REVIEW C.B G.M A.S 13.07.17 No Revision Note: * indicates signatures on original issue of drawing or last revision of drawing Drawn Job Project Director Date



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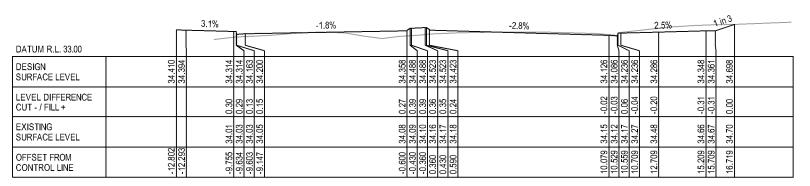
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PRELIMINARY MAITLAND CITY COUNCIL HAUSSMAN DRIVE ROAD UPGRADE

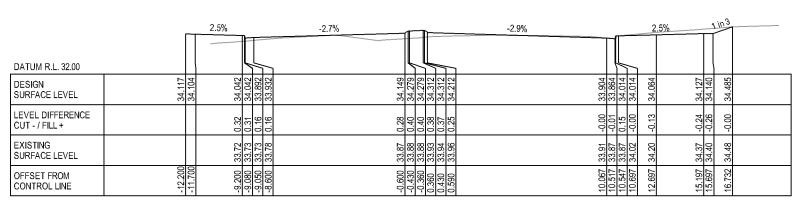
Rev: C

SHEET 11 OF 35 Drawing No: 22-18378-C080

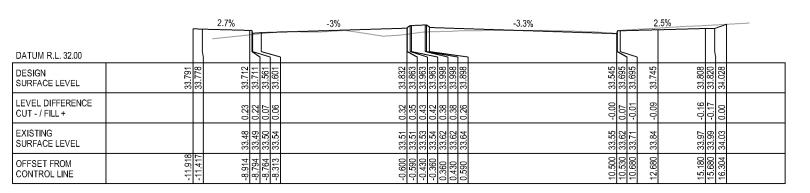
CROSS SECTIONS - HAUSSMAN DRIVE



CH 17.352



CH 10



CH 0

CROSS SECTIONS HAUSSMAN DRIVE - ROUNDABOUT SOUTH LEG SCALE 1:200

С	FINAL CONCEPT DESIGN	RJC	GM	AS	06.10.17
В	FINAL CONCEPT DESIGN	C.B	G.M	A.S	15.09.17
Α	ISSUED FOR REVIEW	C.B	G.M	A.S	13.07.17
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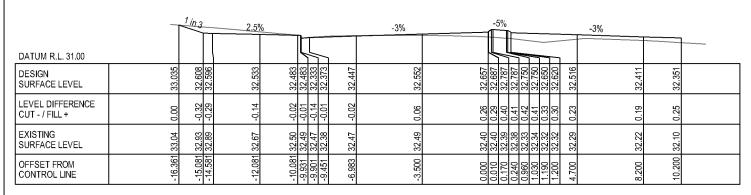
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Rev: C

Drawing No: 22-18378-C081





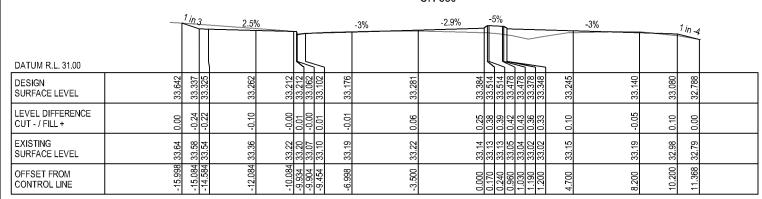
CH 590

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DATUM R.L. 31.00											1			
DESIGN SURFACE LEVEL	33.069	32.672 32.659	32.597	32.547 32.547 32.397 32.437		32.616	32.721	32.851	32.815	32.715	32.580		4	
LEVEL DIFFERENCE CUT - / FILL +	0.00	-0.30	-0.13	-0.01 -0.00 -0.13	-0.02	20:0	0.26	0.40	0.43	0.35	0.20			
EXISTING SURFACE LEVEL	33.07	32.97 32.93	32.73	32.56 32.55 32.55 32.52	32.53	32.55	32.46	32.44	32.38	32.37	32.38		32.15	
OFFSET FROM CONTROL LINE	-16.280	-15.090 -14.590	-12.090	-10.090 -9.940 -9.910	-6.992	-3.500				1.190		8.200	10.200	

CH 588.322

	2.5%	-3%		6
DATUM R.L. 31.00				
DESIGN SURFACE LEVEL		32.705 32.705 32.819 32.924	33.029 33.157 33.121 33.121 33.021 32.991 32.988	32.783
LEVEL DIFFERENCE CUT - / FILL +	-0.29 -0.26 -0.13 -0.02	-0.01 -0.00 -0.01	0.26 0.40 0.41 0.43 0.38 0.33 0.33	0.02
EXISTING SURFACE LEVEL		32.83 32.83 32.83 32.85	32.77 32.75 32.75 32.69 32.68 32.68 32.66 32.66	32.77
OFFSET FROM CONTROL LINE	-15.087 -14.587 -12.087 -10.087	-9.307 -9.457 -6.995 -3.500	0.000 0.170 0.240 0.960 1.190 1.200 1.200	8.200

CH 580



CH 570

CROSS SECTIONS
HAUSSMAN DRIVE
SCALE 1:200

PRELIMINARY

Rev: C

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С	FINAL CONCEPT DESIGN	RJC	GM	AS	06.10.1
В	FINAL CONCEPT DESIGN	C.B	G.M	A.S	15.09.1
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	Project	HAUSSMAI	N DRIVE ROAD UPGRADE
	Title	CROSS SE	CTIONS - HAUSSMAN DRIVE DF 35
88	Original Size A3	Drawing No:	22-18378-C082



HAUSSMAN DRIVE ROAD UPGRADE

Drawing No: 22-18378-C083

SHEET 14 OF 35

CROSS SECTIONS - HAUSSMAN DRIVE

Rev: C

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Approved (Project Director)

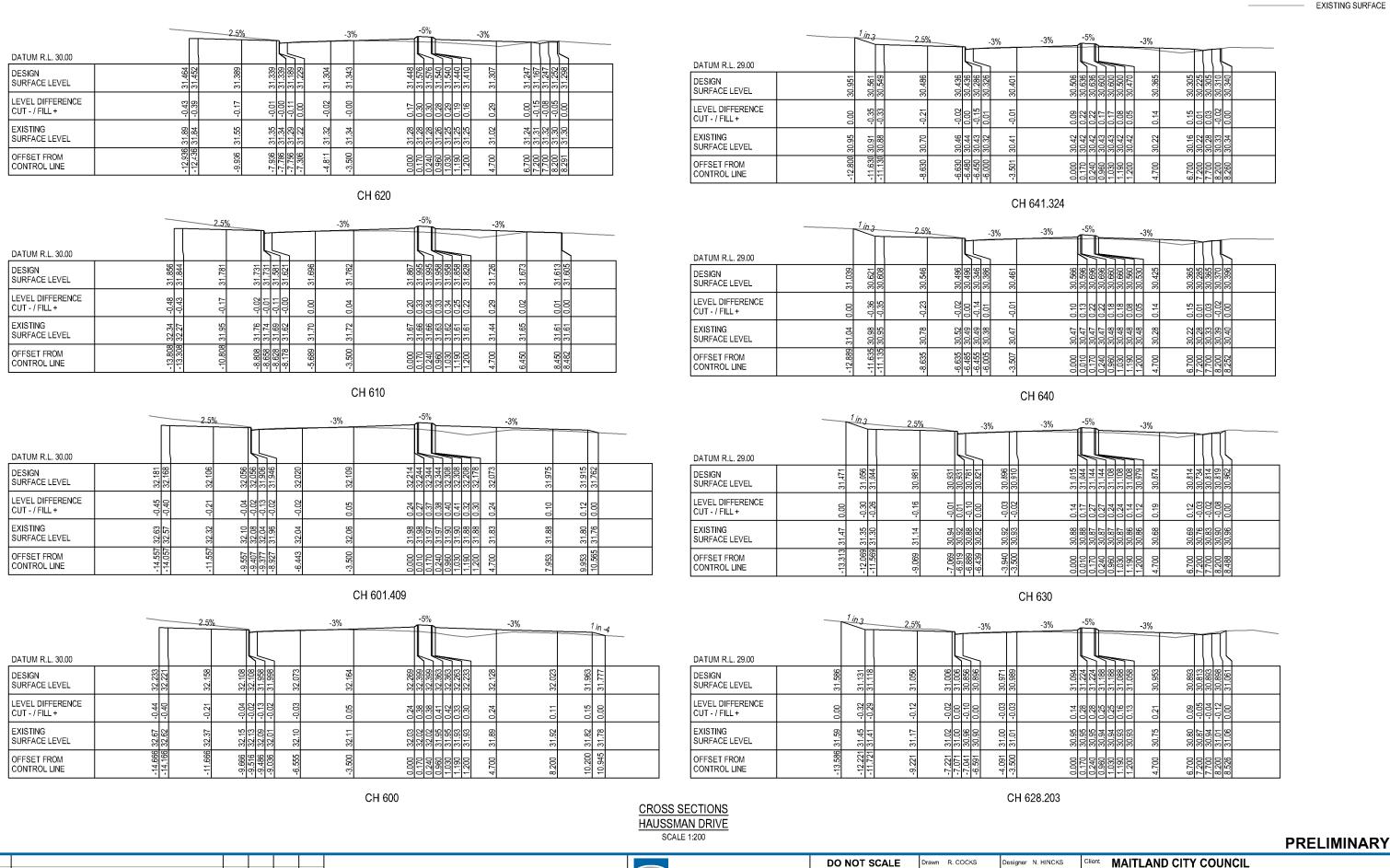
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GM

C.B

C.B

G.M A.S

AS

G.M A.S 13.07.17

06.10.17

15.09.17

SCALE 1:200 AT ORIGINAL SIZE

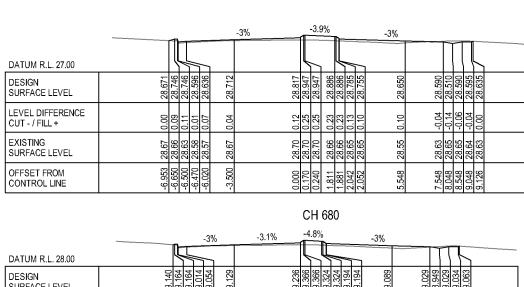
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FINAL CONCEPT DESIGN

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			-3%		3%	
DATUM R.L. 25.00						
DESIGN SURFACE LEVEL	26.968	27.043	27.148	27.043	26.938	26.878 26.798 26.928 27.198
LEVEL DIFFERENCE CUT - / FILL +	-0.10	-0.11	-0.04	80:0-	-0.17	-0.26 -0.37 -0.30 -0.27 -0.00
EXISTING SURFACE LEVEL	27.07	27.15	27.19	27.12	27.11	27.14 27.16 27.18 27.19 27.20
OFFSET FROM CONTROL LINE	-6.000	-3.500	0.000	3.500	7.000	9.000 9.500 10.000 11.040

CH 720

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DATUM R.L. 28.00		-3%		-3.1%	4.8%			-3%		T	ΓŢ	
DESIGN SURFACE LEVEL	29.140 29.140	29.164 29.014 29.054	29.129				29.194 29.194			28.949		
LEVEL DIFFERENCE CUT - / FILL +	0.00	0.09 -0.01 0.04	0.03	0.11	0.24	0.21	60'0 60'0	0.13	0.02	-0.09	-0.03	00.00
EXISTING SURFACE LEVEL	29.14	29.08 29.03 29.01	29.10	29.13	29.13	- 1-	29.11 29.11	28.96	29.01	29.04	29.07	29.06
OFFSET FROM CONTROL LINE	-6.740 -6.740	-6.465 -6.015	-3.500	0.000	0.240	1.126	1.351	4.851	6.851	7.851	8.351	8.409

			-3%	-4.2%	-3.2%		3%			_	
DATUM R.L. 26.00									\prod	Ţl)
DESIGN SURFACE LEVEL	27.385	27.460			27.639 27.640 27.542		27.355	27.295 27.295			
LEVEL DIFFERENCE CUT - / FILL +	-0.05	-0.07	-0.00	0.03 0.13 0.13	0.10 0.10 0.01	-0.02 0.01	-0.02	-0.18	-0.22	0.18	
EXISTING SURFACE LEVEL	27.44	27.53		27.57 27.56 27.56	27.54 27.54 27.53	27.53 27.45	27.37	27.47			
OFFSET FROM CONTROL LINE	000:9-	-3.500	ᆝ	0.010 0.170 0.240	1.569 1.649 1.831	1.842 3.500	7.000	9.000	10.000	10.500	

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DATUM R.L. 28.00			1		Ĺ	Ļ			<u> </u>	ך				-	`
DESIGN SURFACE LEVEL		29.555		29.665	29.65	29.757	29.761	29.761	29.661	29.029				29.469	
LEVEL DIFFERENCE CUT - / FILL +	0.00	0.03 0.01	0:00	0.10	0.14	0.24	0.21	0.21	0.11	0 13	0.05	-0.06	-0.00	0.02	00.00
EXISTING SURFACE LEVEL	29.59	29.57 29.51 29.47	29.56	29.56	29.56	29.56	29.56	29.55	29.55	29.30	29.41	29.44	29.47	29.49	78.30
OFFSET FROM CONTROL LINE	-6.640	-6.460 -6.010	-3.500	0000	0.010	0.170	0.960	1.030	1.190	4 700	6.700	7.200	7.700	8.200	0.200

									CH 710								
DATUM R.L. 26.00		Ţ	Ţ			-3%			-3.5%		_	-3%		_	T	Ţ	
DESIGN SURFACE LEVEL	27 859	27.911	27.911	27.801	27.877		28.112		28.010	28.009	27.879	27.774	27.714	27.634	27.714	7007	77.031
LEVEL DIFFERENCE CUT - / FILL +	00 0	90.0	20.0	0.05	-0.01	90.0	0.19	0.19	0.20	0.20	- 80	0.03	-0.14	0.22	-0.14) -0:0-	00.00
EXISTING SURFACE LEVEL	27.86	27.85	27.84	27.75	27.88	27.92	27.92	27.92	27.81	27.81	27.80	27.74	27.85	27.86	27.85	27.04	27.83
OFFSET FROM CONTROL LINE	-6 870	-6.661	6.511	-6.031	-3.500	0000	0.170	0.240	3.205	3.275	3.430	6.942	8.942	9.442	9.942	10.442	10.3/c

			(CH 66	0				
			-3%	-5% 1		-3%			
DATUM R.L. 28.00								\prod	
DESIGN SURFACE LEVEL	30.043	29.933	30.114	30.244	30.208 30.108 30.078	29.973	29.913	29.913	1000
LEVEL DIFFERENCE CUT - / FILL +		0.01			0.19 0.10 0.07		\top	-0.03	
EXISTING SURFACE LEVEL	30.06	30.01 30.01	30.01	30.01 30.01 30.02	30.01 30.01 30.01	29.86	29.85	29.92 29.95	66.67
OFFSET FROM CONTROL LINE	-6.634 -6.484	-6.004 -6.004 -3.500	0.000	0.170	1.190	4.700	7.200	8.200	7. 7.

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DATUM R.L. 27.00		ţ	Ţ					Ļ	\sim		Ų		_							1
DESIGN SURFACE LEVEL				28.179 28.219	28.295		28.400			28.448	28.448	28.347	28.317	28.212	28.152	28.072	28.152	28.202	28.226	
LEVEL DIFFERENCE CUT - / FILL +	0.00	0.08	0.12	0.03	0.04		0.12			0.24	0.24	0.15	0.12	0.00	-0.09	-0.16	-0.08	-0.02	0.00	
EXISTING SURFACE LEVEL	28.26	28.25	28.20	28.15 28.14	28.25		28.28	28.28	28.28	28.21	28.21	28.20	28.20	28.21	28.24	28.24	28.23	28.23	28.23	
OFFSET FROM CONTROL LINE				-6.475 -6.025	-3.500		0.000	0.170	0.240	2.508	2.578	2.739	2.749	6.245	8.245	8.745	9.245	9.745	9.793	

CH 690

CROSS SECTIONS

TIONS

HAUSSMAN DRIVE SCALE 1:200

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С	FINAL CONCEPT DESIGN	RJC	GM	AS	06.10.17
В	FINAL CONCEPT DESIGN	C.B	G.M	A.S	15.09.17
Α	ISSUED FOR REVIEW	C.B	G.M	A.S	13.07.17
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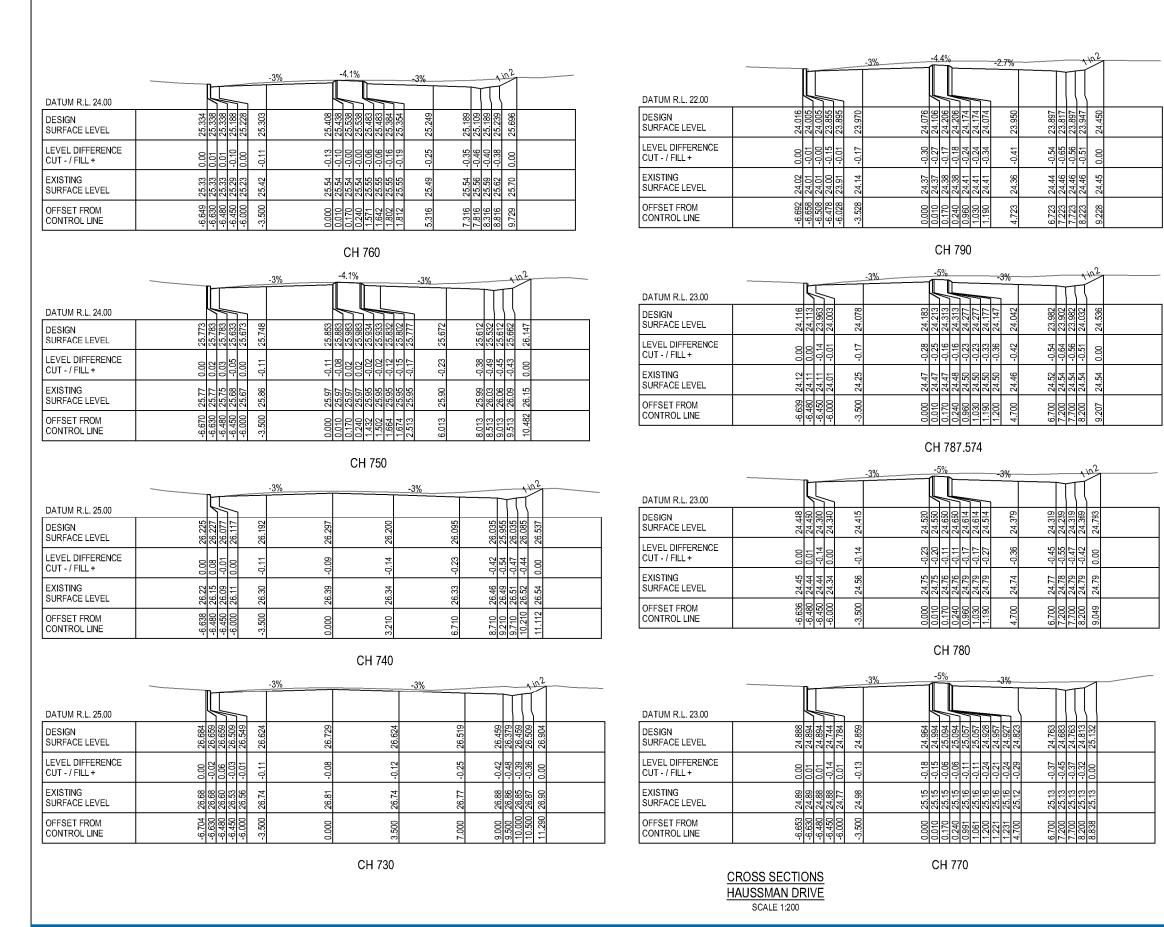
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MAITLAND CITY COUNCIL HAUSSMAN DRIVE ROAD UPGRADE CROSS SECTIONS - HAUSSMAN DRIVE SHEET 15 OF 35

CH 650





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cale AS SHOWN

MAITLAND CITY COUNCIL HAUSSMAN DRIVE ROAD UPGRADE **CROSS SECTIONS - HAUSSMAN DRIVE SHEET 16 OF 35**

Drawing No: 22-18378-C085

FINAL CONCEPT DESIGN

FINAL CONCEPT DESIGN

ISSUED FOR REVIEW

No Revision Note: * indicates signatures on original issue of drawing or last revision of drawing

06.10.17

15.09.17

SCALE 1:200 AT ORIGINAL SIZE

GM

C.B

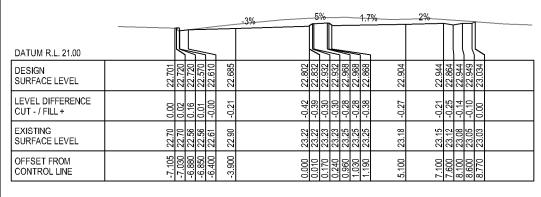
C.B

G.M A.S

AS

G.M A.S 13.07.17





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DATUM R.L. 20.00			<u> </u>	ר ו		1	,		7	7	ار الم			١ ١	١	١,	`
DESIGN SURFACE LEVEL	-	21.898	ح إنجا	-11	l	21.980					22.016	22.133		22.113			
LEVEL DIFFERENCE CUT - / FILL +	0.00	0.00	-0.14	-0.17		0.39	-0.27	-0.27	-0.28	0.28	-0.42	-0.32	-0.21	-0.29	-0.21	-0.15	20.0
EXISTING SURFACE LEVEL		21.90				22.37	22.38	22.38	22.42	22.43	22.43	22.45	22.40	22.40	22.41	22.39	74.31
OFFSET FROM CONTROL LINE	-7.054	-7.030 -6.880	-6.850	-3.900		0.000	0.170	0.240	0.960	1.030		5.100		7.600			

CH 822.574

							-3%		2.7%	_	_	_	_	1.6%			_	_	и	
DATUM R.L. 21.00				_								-	_						$\ $	
DESIGN SURFACE LEVEL	22.792	22.803	22.803	22.653	22.693	22.768		22.884	22.914	23 011	23 034	23 034	22.934	22.966	22.998	22.918	22,998	23 048	23.168 23.168	
LEVEL DIFFERENCE CUT - / FILL +	00.00	0.01	0.15	0.00	-0.01	-0.20		-0.42	65.0- 02.0-	0.30	20.0-	-0.30	-0.40			-0.33	-0.21	-0 13	200	20.0
EXISTING SURFACE LEVEL		22.79				22.97		23.30	23.30	23.31	23.33	23.33	23.33	23.28	23.28	23.24	23.21	23.18	23.13	- 24
OFFSET FROM CONTROL LINE	-7.042	-7.001				-3.871		0.000	0.010	0.240	0.950	1 030	1.190	5.009	7.009	7.509	8.009	8 509	8 7 48	2

DATUM R.L. 21.00		TÇ.	Ę			3%		-5 	% 					_	3%	=	Ī	Π			
DESIGN SURFACE LEVEL	22.091	22.051	22.051	21.901	22 016		22.133	22.163	22.263	22.263	22.299	22.299	22.199	22.169	22.286					22.415	
LEVEL DIFFERENCE CUT - / FILL +	0.00	-0.03	-0.03	-0.18	-0.03		-0.44			-0.32					-0.27	-0.19	-0.23	-0.11	-0.02	0.00	
EXISTING SURFACE LEVEL	22.09	22.09	22.08	22.08	22.26		22.57	22.57	22.58	22.59	22.61	22.61	22.62	22.62	22.56	22.54	22.50	22.46	22.42	22.41	
OFFSET FROM CONTROL LINE	-7.151		-6.880				0.000	0.010	0.170	0.240	0.960		1.190	1.200	5.100	7.100	7.600	8.100	8.600	8.638	

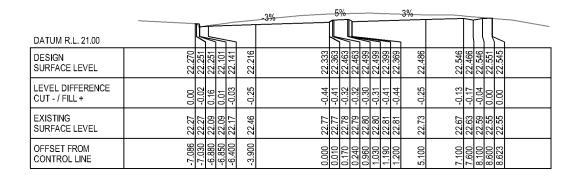
CH 860

CH 850

CH 840

CH 820

DATUM R.L. 22.00		Ę				3%		3%				_	0.2%		_		Ţ	12	
DESIGN SURFACE LEVEL				23.007		766 66	23.264	23.364	23.364	23.367	23.367	23.267	23.244				23.299	23.685	
LEVEL DIFFERENCE CUT - / FILL +	0.00	0.01	0.01	-0.14 0.02	-0.20	700	-0.34	-0.25	-0.25	-0.28	-0.28		-0.37	-0.49	-0.56	-0.47	-0.41	0.00	
EXISTING SURFACE LEVEL				23.14		29.60	23.61	23.62	23.62	23.64	23.65	23.65	23.62	23.74	23.73	23.72	23.71	23.68	
OFFSET FROM CONTROL LINE				-6.706 -6.256			0.010	0.170	0.240	0.960	1.030	1.190	4.914	6.914	7.414	7,914	8.414	9.186	



 -6.832
 23.58
 0.00
 23.581

 -6.772
 23.58
 -0.02
 23.561

 -6.622
 23.58
 -0.02
 23.561

 -6.52
 23.58
 -0.02
 23.411

 -6.59
 23.46
 -0.01
 23.451
 DATUM R.L. 22.00 DESIGN SURFACE LEVEL LEVEL DIFFERENCE CUT - / FILL + EXISTING SURFACE LEVEL OFFSET FROM CONTROL LINE

DATUM R.L. 21.00		ţ		_			-3%	5°	* 				_	3%				- \		
DESIGN SURFACE LEVEL		22.502				22.467	22.584												22.737	
LEVEL DIFFERENCE CUT - / FILL +	0.00	0.11	0.15	0.00	-0.01	-0.24	-0.45	-0.42	-0.33	-0.33	-0.31	-0.31	-0.41	-0.25		-0.14	-0.01	0.04	0.00	
EXISTING SURFACE LEVEL		22.39				22.71	23.03	23.03	23.04	23.04	23.06	23.06	23.06	22.98	22.91	22.86	22.81	22.76	22.74	
OFFSET FROM CONTROL LINE	-7.116	-7.030	-6.880			-3.900	0000	0.010	0.170	0.240	0.960	1.030	1.190	5.100					8.857	

CH 800

CH 810

CH 830

CROSS SECTIONS HAUSSMAN DRIVE SCALE 1:200

С	FINAL CONCEPT DESIGN	RJC	GM	AS	06.10.
В	FINAL CONCEPT DESIGN	C.B	G.M	A.S	15.09.
Α	ISSUED FOR REVIEW	C.B	G.M	A.S	13.07.
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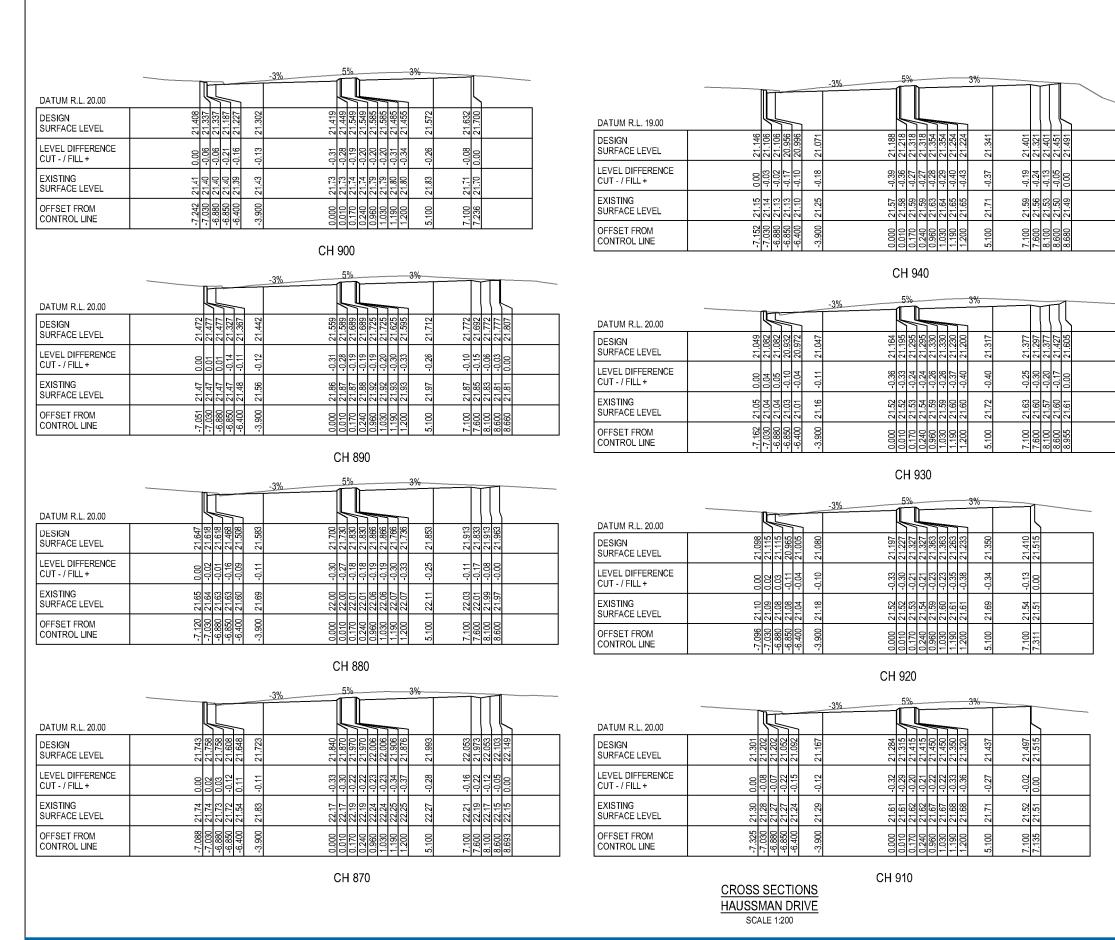
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PRELIMINARY MAITLAND CITY COUNCIL HAUSSMAN DRIVE ROAD UPGRADE **CROSS SECTIONS - HAUSSMAN DRIVE SHEET 17 OF 35**

Rev: C

Drawing No: 22-18378-C086





PRELIMINARY

Rev: C

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HAUSSMAN DRIVE ROAD UPGRADE **CROSS SECTIONS - HAUSSMAN DRIVE**

Drawing No: 22-18378-C087

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RJC GM

C.B

C.B

AS

G.M A.S 13.07.17

G.M A.S

06.10.17

15.09.17

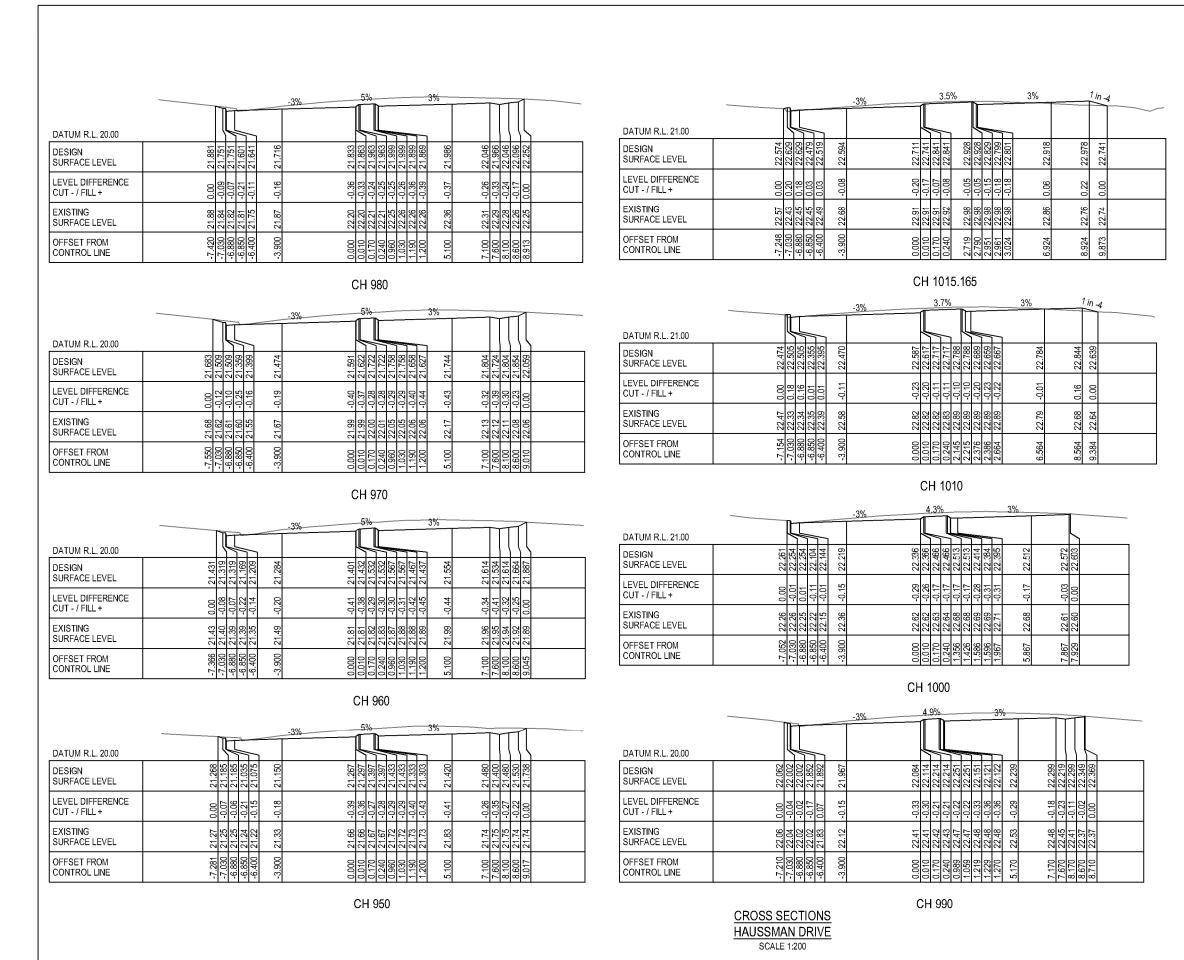
SCALE 1:200 AT ORIGINAL SIZE

FINAL CONCEPT DESIGN

FINAL CONCEPT DESIGN

ISSUED FOR REVIEW

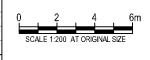




PRELIMINARY

Rev: C

FINAL CONCEPT DESIGN RJC GM AS 06.10.17 G.M C.B A.S FINAL CONCEPT DESIGN 15.09.17 G.M A.S 13.07.17 C.B ISSUED FOR REVIEW No Revision Note: * indicates signatures on original issue of drawing or last revision of drawing Date

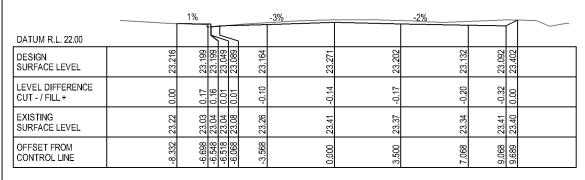


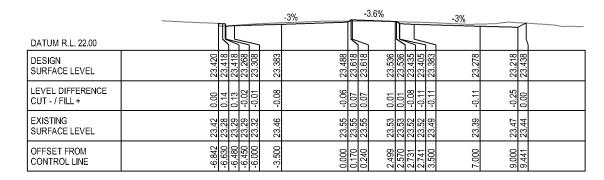
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MAITLAND CITY COUNCIL HAUSSMAN DRIVE ROAD UPGRADE **CROSS SECTIONS - HAUSSMAN DRIVE SHEET 19 OF 35**

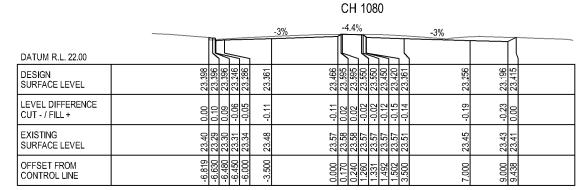




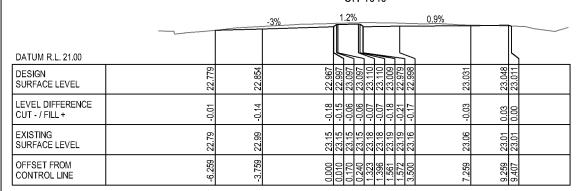


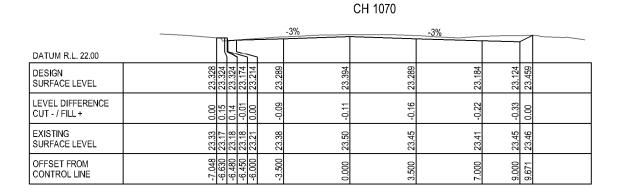
CH 1050

			-3%		-0.5%		
DATUM R.L. 22.00							
DESIGN SURFACE LEVEL	22.934	23.009	23.119	23.100	23.080	23.069	62.62
LEVEL DIFFERENCE CUT - / FILL +	-0.09	-0.14	-0.17	-0.19	-0.21	-0.23	00:0
EXISTING SURFACE LEVEL	23.02	23.15	23.29	23.29	23.29	23.30	23.20
OFFSET FROM CONTROL LINE	-6.163	-3.663	0.000	3.500	7.163	9.163	- 4c.9



CH 1040





CH 1030

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DATUM DI 04.00					
DATUM R.L. 21.00		\longrightarrow			
DESIGN SURFACE LEVEL	22.664 22.728 22.728		22.838 22.938 22.938 23.013 22.913 22.913 22.883	22.886	23.021 22.865
LEVEL DIFFERENCE CUT - / FILL +	0.00 0.20 0.19	-0.07	.0.18 .0.06 .0.03 .0.03 .0.03	-0.16	0.00
EXISTING SURFACE LEVEL	22.66 22.53 22.54 22.54	22.58	22.99 22.99 23.00 23.00 23.05 23.05 23.05 23.05	23.04	22.86
OFFSET FROM CONTROL LINE	-7.239 -6.984 -6.834 -6.834		0.000 0.010 0.170 0.240 2.998 3.068 3.228 3.238	3.361	9.215 9.840

CH 1020

CH 1050.165

CH 1060

CROSS SECTIONS
HAUSSMAN DRIVE
SCALE 1:200

PRELIMINARY

Rev: C

С	FINAL CONCEPT DESIGN	RJC	GM	AS	06.10.
В	FINAL CONCEPT DESIGN	C.B	G.M	A.S	15.09.
Α	ISSUED FOR REVIEW	C.B	G.M	A.S	13.07.
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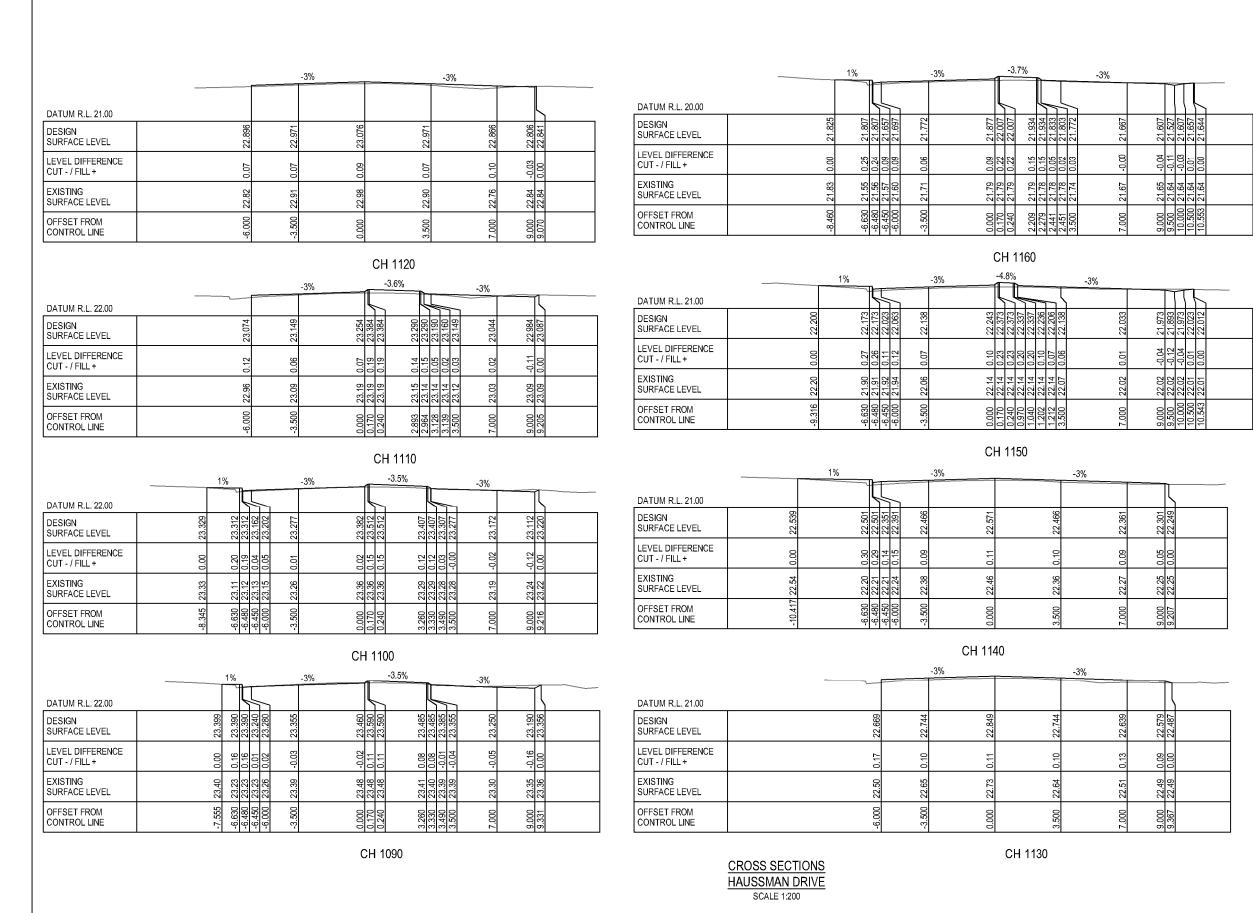
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MAITLAND CITY COUNCIL
HAUSSMAN DRIVE ROAD UPGRADE
CROSS SECTIONS - HAUSSMAN DRIVE
SHEET 20 OF 35

Drawing No: 22-18378-C089





PRELIMINARY

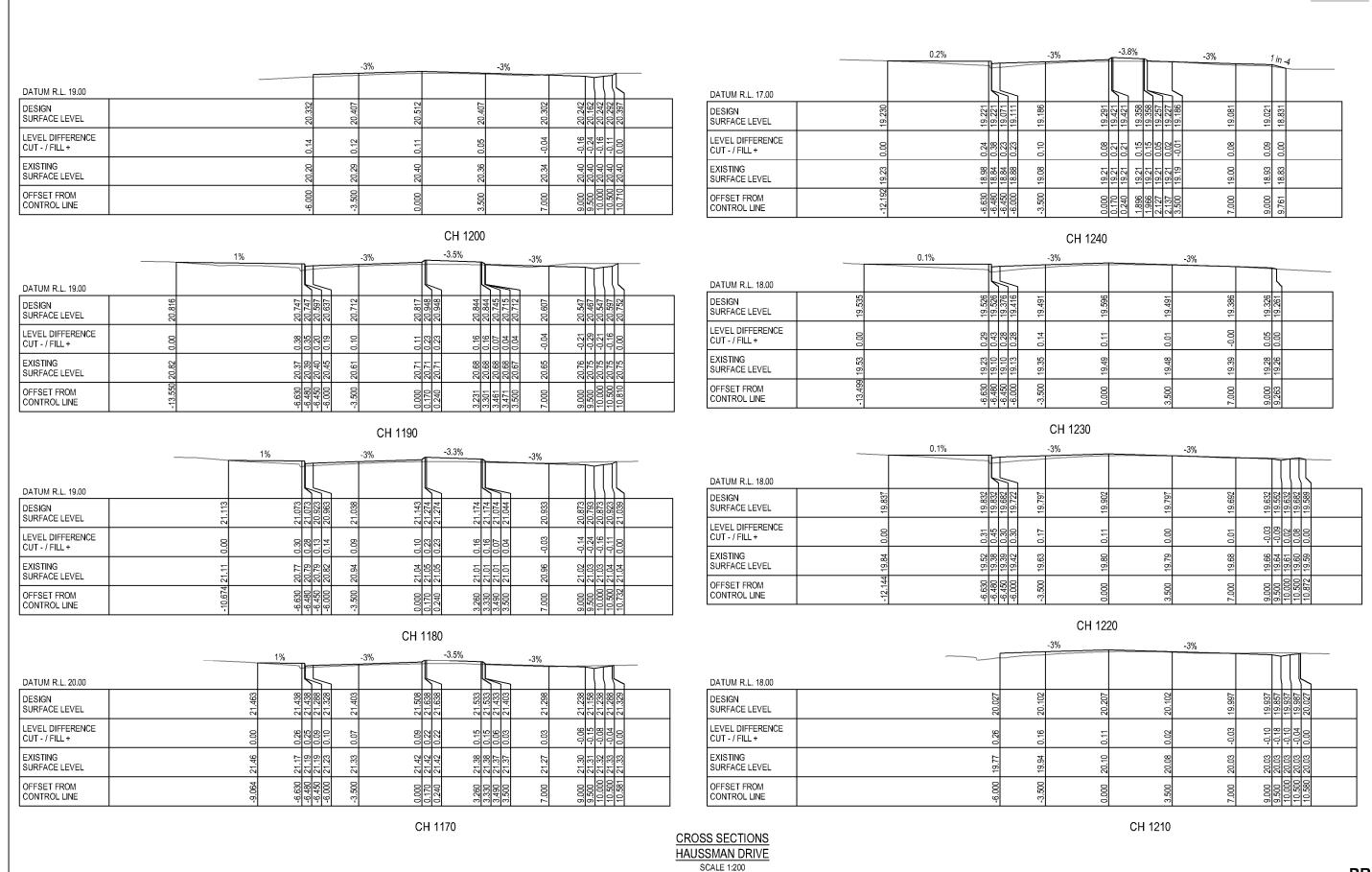
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F6 12 4979 9999 F6 12 4979 9988
Entimail@ghd.com Www.ghd.com G.M A.S C.B FINAL CONCEPT DESIGN 15.09.17 **SHEET 21 OF 35** SCALE 1:200 AT ORIGINAL SIZE G.M A.S 13.07.17 C.B A ISSUED FOR REVIEW This Drawing must not be used for Construction unles signed as Approved and must not be used by any other person or for any other purpose. cale AS SHOWN

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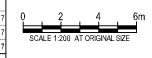




PRELIMINARY

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С	FINAL CONCEPT DESIGN	RJC	GM	AS	06.10
В	FINAL CONCEPT DESIGN	C.B	G.M	A.S	15.09
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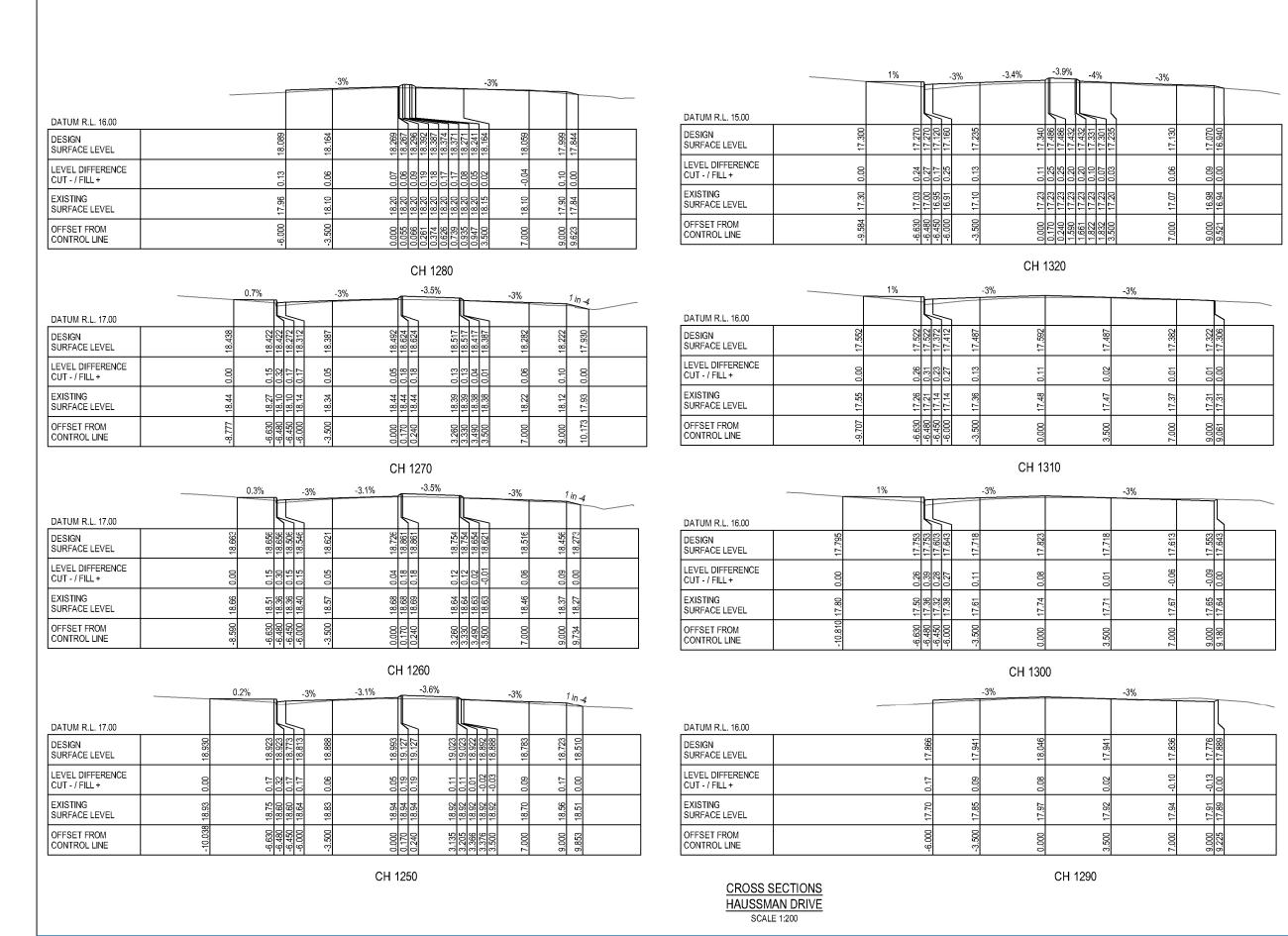
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MAITLAND CITY COUNCIL HAUSSMAN DRIVE ROAD UPGRADE CROSS SECTIONS - HAUSSMAN DRIVE SHEET 22 OF 35

Drawing No: 22-18378-C091





PRELIMINARY

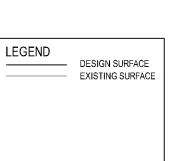
Rev: C

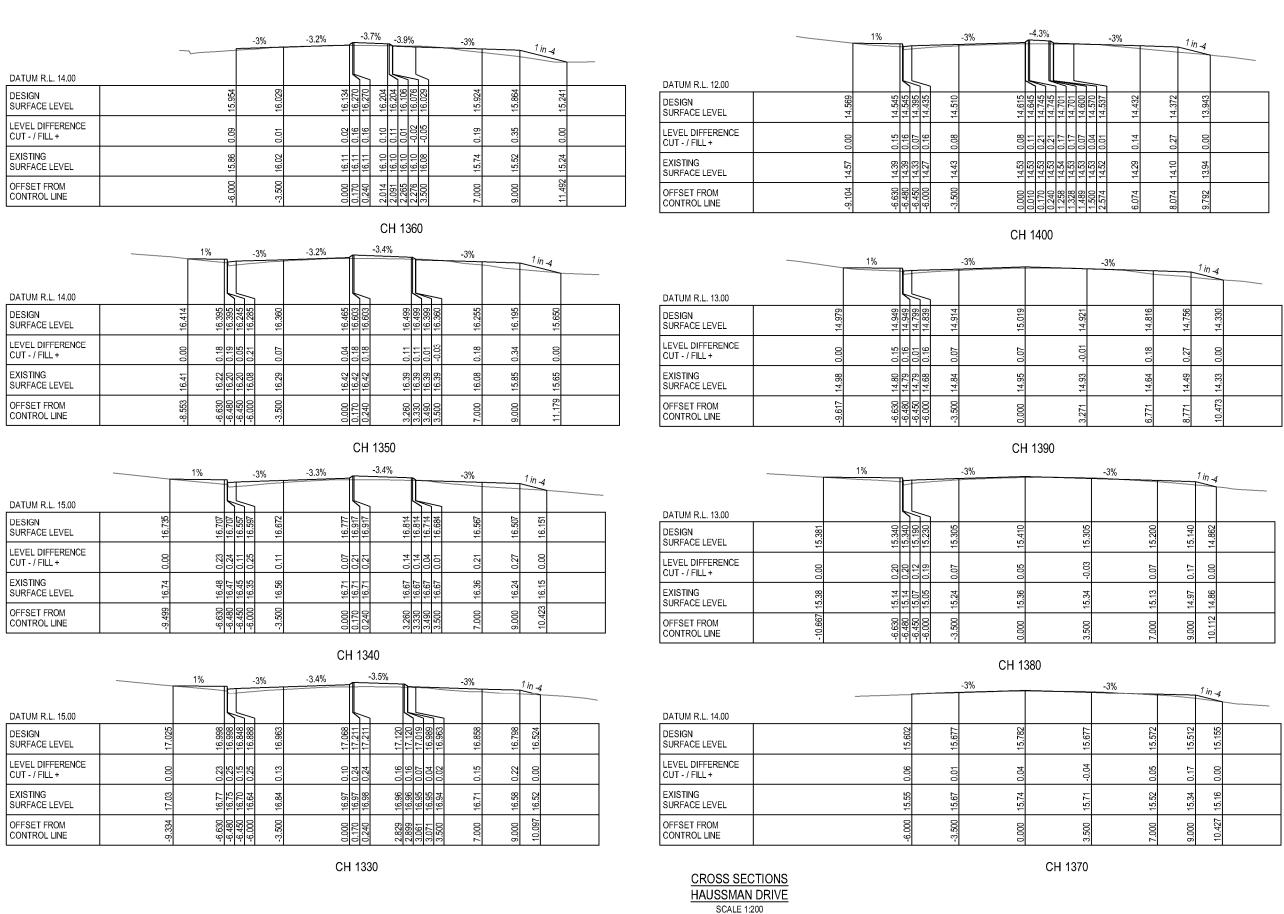


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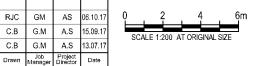
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MAITLAND CITY COUNCIL HAUSSMAN DRIVE ROAD UPGRADE CROSS SECTIONS - HAUSSMAN DRIVE SHEET 23 OF 35





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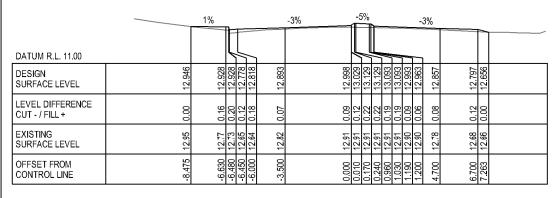
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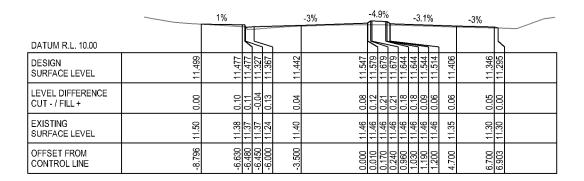
MAITLAND CITY COUNCIL HAUSSMAN DRIVE ROAD UPGRADE **CROSS SECTIONS - HAUSSMAN DRIVE SHEET 24 OF 35**

PRELIMINARY

Rev: C







CH 1480

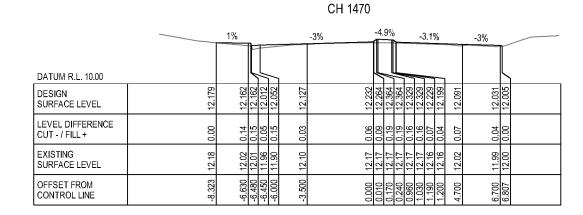
CH 1440

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DATUM R.L. 12.00								
DESIGN SURFACE LEVEL	13.352	13.332 13.332 13.182				13.496 13.496 13.396 13.366	13.261	13.059
LEVEL DIFFERENCE CUT - / FILL +	00:00	0.18 0.21 0.13		0.70	0.23	0.20 0.20 0.10 0.07	0.10	0.00
EXISTING SURFACE LEVEL	13.35	13.16 13.12 13.06		13.30	13.30 13.30	13.30 13.30 13.29 13.29	13.16	13.06
OFFSET FROM CONTROL LINE	-8.652	-6.630 -6.480 -6.450	-5.000	0.000	0.170	0.960 1.030 1.190 1.200	4.700	7.269

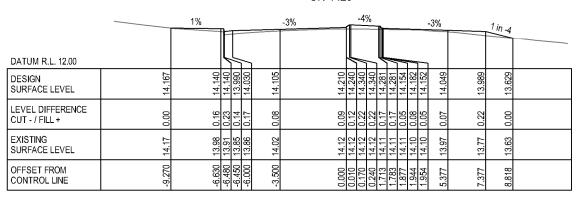
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DESIGN SURFACE LEVEL	11.836	11.810	11.810	-1	11.880	- c	12.011	11.976	11.876	-1	11.679	11.676	
LEVEL DIFFERENCE CUT - / FILL +	00:0	0.11	0.12	0.03	0.07	0.10	0.20	0.17	0.08	0.0	0.00	0.00	
EXISTING SURFACE LEVEL	11.84		11.68	-	l √	- -	11.81	11.81	11.80		11.68	11.68	
OFFSET FROM CONTROL LINE	-9.301		-6.480 -6.450		0.000	0.010	0.240	0.960	1.190	4.700	6.700	6.712	

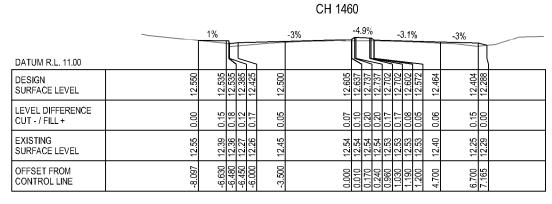
CH 1430

DATUM R.L. 12.00		1%		=	-3%	-4.	3%	_			-3	%	<u> </u>	1 in -	4
DESIGN SURFACE LEVEL	13.762		13.586		13.806	انحا	13.936	تعاد	က	اصا	13.796	ی ادر	13.605	13.378	1 1
LEVEL DIFFERENCE CUT - / FILL +	0.00		0.16		0.10	0.13	0.23	0.19	0.19	0.07	0.10	0.07	0.15	0.00	
EXISTING SURFACE LEVEL	13.76		13.43		13.71		13.71							13.38	1
OFFSET FROM CONTROL LINE	-9.222		-6.450		0.000	0.010	0.170	1.073	1.143	1.200	1.303	4 700	6.700	7.607	



CH 1420





CH 1410

CROSS SECTIONS HAUSSMAN DRIVE SCALE 1:200

CH 1450

PRELIMINARY

Rev: C

С	FINAL CONCEPT DESIGN	RJC	GM	AS	06.10.
В	FINAL CONCEPT DESIGN	C.B	G.M	A.S	15.09.
Α	ISSUED FOR REVIEW	C.B	G.M	A.S	13.07.
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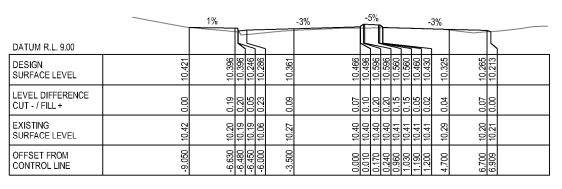
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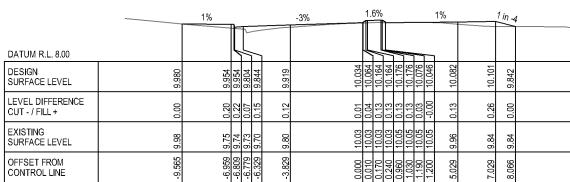


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DATUM R.L. 8.00			1	$\overline{}$	ı l		7	٦	7	٦	7	٣	1				
DESIGN SURFACE LEVEL	9.945	9.913	9.913	9.803	9.878	9	10.025	10.125	10.125	10.146	10.146	10.046	10 087	2	10.153	9.817	
LEVEL DIFFERENCE CUT - / FILL +	0.00		0.28			0.01	0.04	0.14	0.14	0.14	0.14	0.04	0 10		0.43	0.00	
EXISTING SURFACE LEVEL	9.95	9.64	9.63	9.60	9.74	9.98	9.98	9.38	9.99	10.00	10.00	10.01	86.6		9.03	9.82	
OFFSET FROM CONTROL LINE	-10.291		-6.880	-6.400	-3.900	0.000	0.010	0.170	0.240	0.960	1.030	1 200			7.100	8.321	

CH 1516.952

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DATUM R.L. 9.00						Ļ			_	<u> </u>]			
DESIGN SURFACE LEVEL	10.624	10.591	10.591	10.556						10.655		10.460	10.365	
LEVEL DIFFERENCE CUT - / FILL +	00		0.03							0.07		8).0	0.00	
EXISTING SURFACE LEVEL	10.62	10.42	10.41	10.46	10.59	10.59	10.59	10.59	10.58	10.58	10.48	10.38	10.37	
OFFSET FROM CONTROL LINE	-9.905	-6.630	-6.480	-3.500		0.010	0.170	0.240	1.030	1.190	4.700	6.700	7.079	





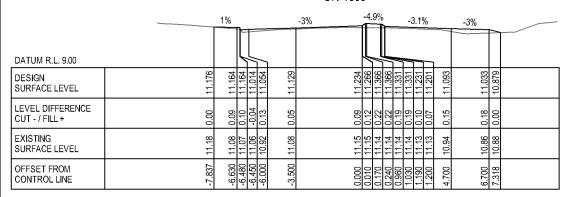
CH 1510

		1%	-3%	-4.9%	-3.1%	-3%
DATUM R.L. 9.00			۱ ا			
DESIGN SURFACE LEVEL	10.897	10.872 10.872 10.722 10.722	10.837	10.942 10.973 11.073 11.073		10.741
LEVEL DIFFERENCE CUT - / FILL +	0.00	0.14 0.15 0.00 0.17	0.08	0.09 0.12 0.22 0.22 0.19	0.19 0.10 0.07 0.13	0.16
EXISTING SURFACE LEVEL	10.90	10.74 10.72 10.72 10.60	10.76	10.85 10.85 10.85	10.84 10.84 10.84 10.67	10.58
OFFSET FROM CONTROL LINE	-9.135	-6.630 -6.480 -6.450	-3.500	0.000 0.010 0.170 0.240	1.030 1.190 1.200 4.700	6.700

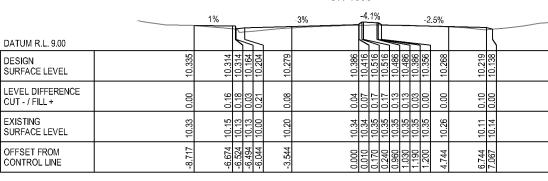
CH 1540

DATUM R.L. 8.00		1%		-3% -1.	3%		-0.	8%	7	in -	4
DESIGN SURFACE LEVEL	10.113	10.096 10.096	9.986	10.172 10.202	10.302	10.292	10.192	10.134	10.119	9.930	
LEVEL DIFFERENCE CUT - / FILL +	0.00	0.13	0.18	0.01	0.14	0.12	0.02	0.05	0.19	0.00	
EXISTING SURFACE LEVEL	10.11	9.97 9.95 9.95	9.80	10.16 10.16	10.16	10.17	10.17	10.09	9.93	9.93	
OFFSET FROM CONTROL LINE	-8.528	-6.816 -6.666 -6.666	-6.186	0.000	0.170	0.960	1.190	4.886	6.886	7.643	

CH 1500



CH 1530



CH 1520

CROSS SECTIONS HAUSSMAN DRIVE

CH 1490

SCALE 1:200

PRELIMINARY

Rev: C

С	FINAL CONCEPT DESIGN	RJC	GM	AS	06.10.17
В	FINAL CONCEPT DESIGN	C.B	G.M	A.S	15.09.17
Α	ISSUED FOR REVIEW	C.B	G.M	A.S	13.07.17
No	Revision Note: * indicates signatures on original issue of drawling or last revision of drawling	Drawn	Job Manager	Project Director	Date

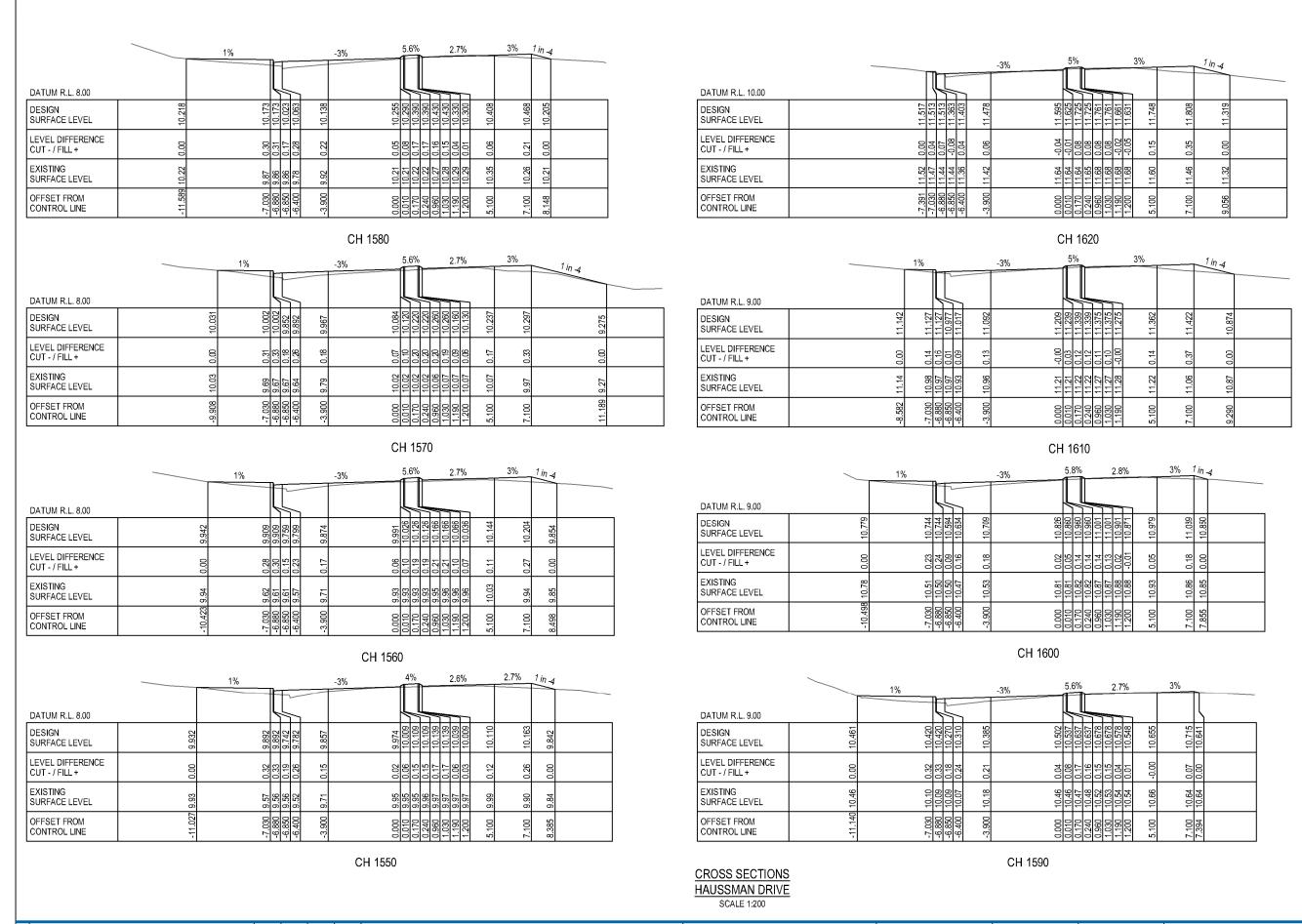
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	SCAL	E 1:200	AT ORIG	SINAL	SIZE	

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MAITLAND CITY COUNCIL HAUSSMAN DRIVE ROAD UPGRADE **CROSS SECTIONS - HAUSSMAN DRIVE SHEET 26 OF 35**





PRELIMINARY

C FINAL CONCEPT DESIGN RJC GM AS 06.10.17
B FINAL CONCEPT DESIGN C.B G.M A.S 15.09.17
A ISSUED FOR REVIEW C.B G.M A.S 13.07.17
No Revision Note: 'indicates signatures on original issue of drawing or last revision of drawing Drawn Manager Driegot Director Date

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Drawn R. COCKS

Designer N. HINCKS

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Design Check

Title

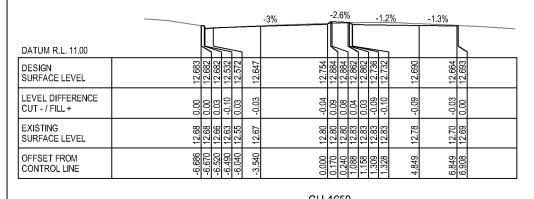
(Project Director)
Date

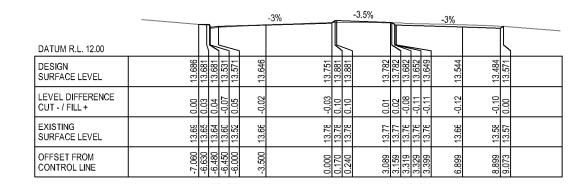
Scale AS SHOWN

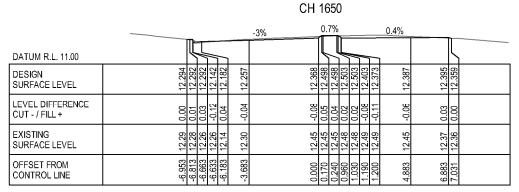
This Drawing must not be used for Construction unless signed as Approved

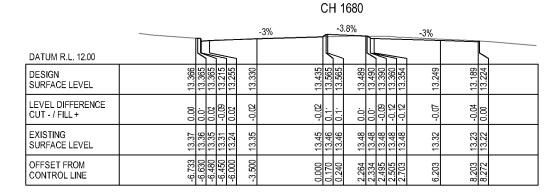
MAITLAND CITY COUNCIL HAUSSMAN DRIVE ROAD UPGRADE CROSS SECTIONS - HAUSSMAN DRIVE SHEET 27 OF 35

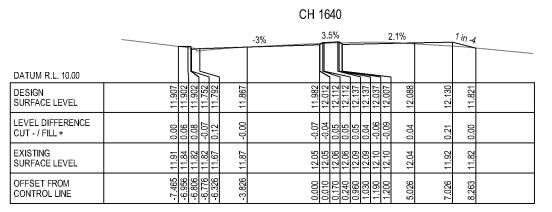


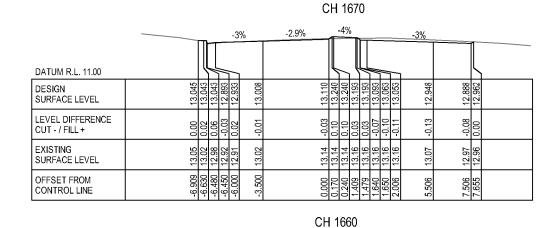












		CH 1630																
		_	.			-3%		5°	% T	_	_	_		3	%		1 in -4	
DATUM R.L. 10.00							ļ	Ĺ		L		_	<u>-</u>	_				
DESIGN SURFACE LEVEL	11.707	-	11.700	11.590	11.665		11.782	11.812	11.912	−I	$\overline{}$	11.948	11.848	11.818	11.935	11.995	11.505	
LEVEL DIFFERENCE CUT - / FILL +	0.00	90.0	0.07 -0.08	0.15	0.02		-0.06	-0.03	90.0	90.0	0.07	0.07	-0.04	-0.07	0.14	0.32	00:00	
EXISTING SURFACE LEVEL	11.71	~ I		11.44	11.64		11.84	11.84	11.85	Ι	~	$\overline{}$	11.89	11.89	11.80	11.68	11.50	
OFFSET FROM CONTROL LINE	-7.701	-7.030	-6.880	-6.400	-3.900		0.000	0.010	0.170	0.240	096'0	1.030	1.190	1.200	5.100	7.100	9.062	

				-3%	-39	%				-1.8%			
DATUM R.L. 11.00					Ļ		_			1			
DESIGN SURFACE LEVEL	12.790	12.789 12.789 12.639			12.989	ilci				12.769			
LEVEL DIFFERENCE CUT - / FILL +	00.0	0.01 0.09 0.00	0.02 -0.02	-0.04	60.0	0.09	0.04	-0.06	-0.09 -0.10	-0.09	-0.03	0.00	
EXISTING SURFACE LEVEL	12.79	12.78 12.70 12.64		12.89	12.90	12.92	12.92	12.93	12.93 12.93	12.86	12.76		
OFFSET FROM CONTROL LINE	-6.708		-6.000	0.000	0.170	1.140			1.380	5.006	7.006	7.062	

CROSS SECT

CH 1652.833

CROSS SECTIONS
HAUSSMAN DRIVE
SCALE 1:200

PREL	IMI	NAF	?Y
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С	FINAL CONCEPT DESIGN	RJC	GM	AS	06.10.17
В	FINAL CONCEPT DESIGN	C.B	G.M	A.S	15.09.17
Α	ISSUED FOR REVIEW	C.B	G.M	A.S	13.07.17
No	Revision Note: * indicates signatures on original issue of drawling or last revision of drawling	Drawn	Job Manager	Project Director	Date

0		2		1	6r	n
	SCALE	1:200	AT ORIO	SINAL S	SIZE	

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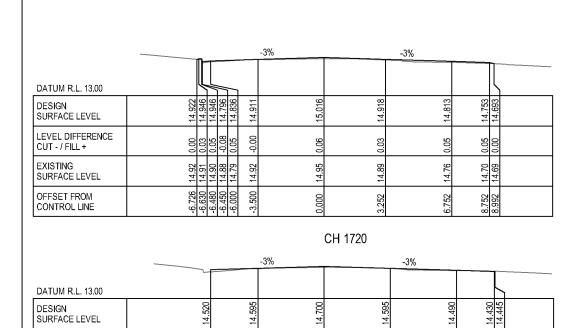
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MAITLAND CITY COUNCIL HAUSSMAN DRIVE ROAD UPGRADE
CROSS SECTIONS - HAUSSMAN DRIVE SHEET 28 OF 35

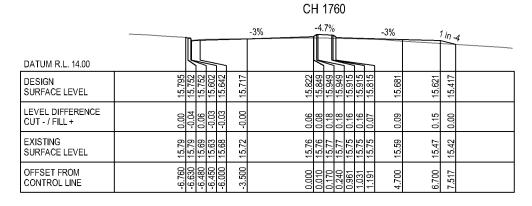
Rev: C

CH 1624.833





		-3%	-5.3%	-3%	1 in -4	
DATUM R.L. 14.00		1				
DESIGN SURFACE LEVEL	15.923 15.941 15.941 15.791 15.791	15.902	16.011 16.038 16.138 16.100 16.100	16.000 15.970 15.866	15.806 15.550	
LEVEL DIFFERENCE CUT - / FILL +	0.00 0.02 0.03 -0.02 0.02	-0.01	0.06 0.09 0.19 0.17	0.07 0.04 0.14	0.22	
EXISTING SURFACE LEVEL	15.92 15.92 15.91 15.81 15.81	15.91	15.95 15.95 15.95 15.95 15.93	15.93 15.93 15.72	15.58 15.55	
OFFSET FROM CONTROL LINE	-6.704 -6.632 -6.482 -6.452 -6.002	-3.628	0.000 0.010 0.170 0.240 0.960	1.190 1.200 4.828	6.828	



		CH 1710									
			-3%		-3%						
DATUM R.L. 13.00											
DESIGN SURFACE LEVEL	14.204	14.279	14.384	14.279	14.174	14.114					
LEVEL DIFFERENCE CUT - / FILL +	0.01	-0.02	0.01	-0.04	-0.02	-0.00					
EXISTING SURFACE LEVEL	14.20	14.30	14.37	14.31	14.19	14.12					
OFFSET FROM CONTROL LINE	000:9-	-3.500	0.000	3.500	000:2	9.000					

						Cł	11	750)							
		Π π		_		-3%	- 1	4.19	6 Th		_	2.9	%	-3%	in .	-4
DATUM R.L. 14.00		Ų	<u> </u>	_			Ļ	_	Ų	_	_	_				
DESIGN SURFACE LEVEL	15.588	15.522	15.372	15.412	15.487		15.620	15.720	15.720	15.663	15.563	15.537	15.432	15.372	15.194	
LEVEL DIFFERENCE CUT - / FILL +	0.00	-0.05	-0.08	-0.05	0.02	20 0	0.10	0.20	0.20	0.16	0.07	0.04	0.12	0.15	00.00	
EXISTING SURFACE LEVEL	15.59	15.58	انعاذ	15.46	15.47	15.52	15.52	15.52	15.32	15.50	15.49	15.49	15.31	15.22	15.19	
OFFSET FROM CONTROL LINE	-6.828	-6.630	-6.450	-6.000	-3.500	טטטט	0.010	0.170	1.240	1.688	1.848	1.858	5.358	7.358	290'8	

		CH 1700									
DATUM R.L. 12.00	~		-3%	-3.69		-3.1%		-3%			
DESIGN SURFACE LEVEL	13.887	13.962	14.067		14.139	14.036	13.962	13.857	13.797	13.836	
LEVEL DIFFERENCE CUT - / FILL +	0.02	-0.03	-0.03	0.09	0.04	90.0-	-0.09	-0.04	-0.04	00'0	
EXISTING SURFACE LEVEL	13.87	13.99	14.10		14.10	14.10	14.05	13.90		13.84	
OFFSET FROM CONTROL LINE	900.9-	-3.500	0.000	0.170	1.888	2.065	3.500	7.000	9.000	9.077	

		CH 1740																
			T		<u> </u>	-3%	1	-4.	4%	-2.	7%	_		_	-3%		1 in .	4
DATUM R.L. 13.00		ľ	7	\uparrow	—			7	Ť	1	Ť	Ī		\Box				
DESIGN SURFACE LEVEL	15.312	15.253	15.253	15.143	15.218		15.323	15.350	15.450	15 402	15.402	15.302	15.272	15.246	15.141	15.081	14.892	
LEVEL DIFFERENCE CUT - / FILL +	0.00	-0.05	-0.03	-0.04	-0.02		0.05	0.08	0.18	0.16	0.16	90.0	0.03	0.04	0.12	0.16	00.0	
EXISTING SURFACE LEVEL	15.31	15.30	15.28	15.18	15.24		15.27	15.27	15.27	15.25	15.24	15.24	15.24	15.21	15.02	14.92	14.89	
OFFSET FROM CONTROL LINE	-6.806	-6.630	-6.480	-6.000	-3.500		0.000	0.010	0.170	1341	1411	1.572	1.582	2.555	6.055	8.055	8.814	

CROSS SECTIONS

HAUSSMAN DRIVE SCALE 1:200

CH 1730

RJC	GM	AS	06.10.17
C.B	G.M	A.S	15.09.17
C.B	G.M	A.S	13.07.17



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PRELIMINARY MAITLAND CITY COUNCIL HAUSSMAN DRIVE ROAD UPGRADE **CROSS SECTIONS - HAUSSMAN DRIVE SHEET 29 OF 35**

Rev: C

Drawing No: 22-18378-C098

No Revision Note: * indicates signatures on original issue of drawing or last revision of drawing

FINAL CONCEPT DESIGN

FINAL CONCEPT DESIGN

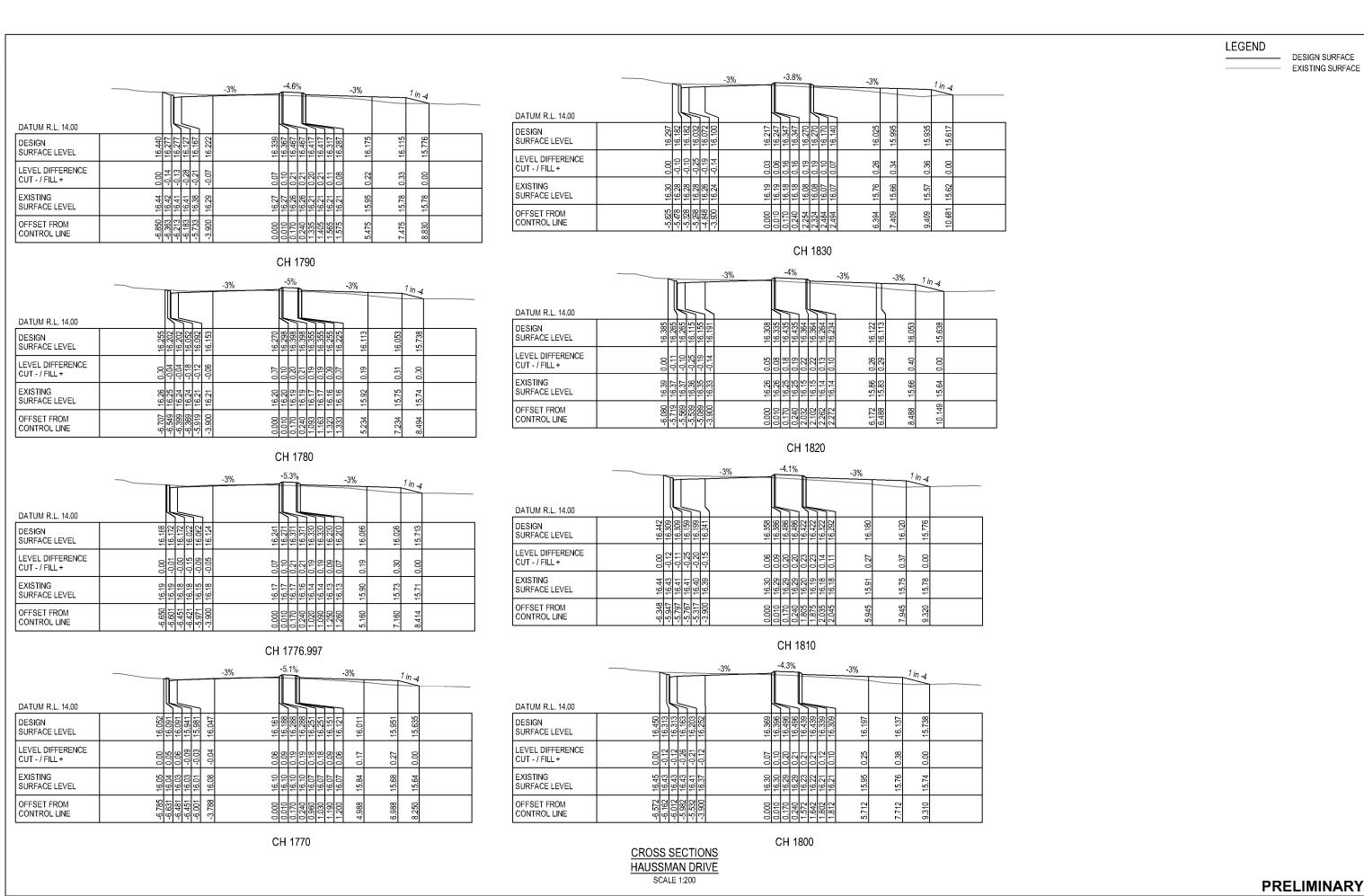
A ISSUED FOR REVIEW

LEVEL DIFFERENCE CUT - / FILL +

EXISTING SURFACE LEVEL

OFFSET FROM CONTROL LINE

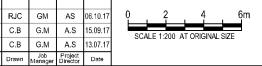
CH 1690



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С	FINAL CONCEPT DESIGN	RJC	GM	AS	06.10.17
В	FINAL CONCEPT DESIGN	C.B	G.M	A.S	15.09.17
Α	ISSUED FOR REVIEW	C.B	G.M	A.S	13.07.17

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Plot Date: 6 October 2017 - 5:10 PM

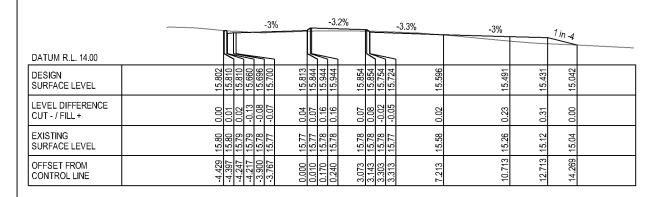


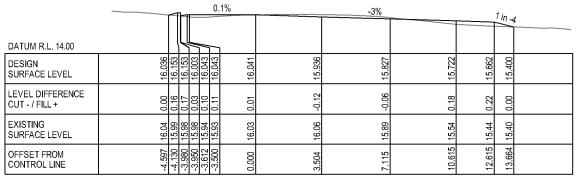
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MAITLAND CITY COUNCIL HAUSSMAN DRIVE ROAD UPGRADE **CROSS SECTIONS - HAUSSMAN DRIVE SHEET 30 OF 35** Rev: C







												1	СН	ł 1870				
DATUM R.L. 14.00		1 in	3			-3%	1	-	-3.	5%		_	_	-3.1%	-3%		1 in -4	
DESIGN SURFACE LEVEL	16.150		ကြ	15.729	اصاد		15.890	16 023	16.023	200	15.031	15.831	15.801	15.680	15.586	IC.		
LEVEL DIFFERENCE CUT - / FILL +	0.00	-0.25	-0.23	-0.38	-0.19	ļ	0.02	0.05	0.15	7	- 1	0.01	-0.01	0.11	0.46	0.24		
EXISTING SURFACE LEVEL	16.15	16.13	16.11	16.10	15.97		15.87	15.87	15.88	2 2	15.02	15.82	15.82	15.57	15.13	IC.	il rej	
OFFSET FROM CONTROL LINE	-5.495			4.503	-3.900		0.000	0.010	0.240	0 0 0	2013	3.109	3.119	7.019	10.135	2	رب ا	

									C	H	19	000)				
DATUM R.L. 13.00				-1.2	<u>%</u>	-2.7%_	3	3.79	1/6	_		<u> </u>		-3%		1 in -4	
DESIGN SURFACE LEVEL	15.907	15.956	15.806	15.843 15.846	15.888	15.840	15.870	15.970	15.970	15.923	15.823	15.783	15.670	ר ה ה		14.973	
LEVEL DIFFERENCE CUT - / FILL +	0.00	20.0	0.08 -0.06	-0.01 0.02	0.01	-0.07	-0.04	90.0	0.06	0.01	-0.09	-0.13	-0.05	0.30		0.00	
EXISTING SURFACE LEVEL	15.91	15.89	15.87	15.85 15.83	15.88	15.91	15.91	15.91	15.91	15.91	15.91	15.91	15.72	15 27	네 4:	14.97	
OFFSET FROM CONTROL LINE	-4.328	-4.130	-3.950	-3.772	0.000	1.743	1.753	1.914	3.260	3.330	3.490	3.502	7.274	10 774	2.77	14.901	

											С	H 1	860				
DATUM R.L. 14.00		1 in 3		Ì	_	-3%			3.6	<u>%</u>			<u>-</u>	-3%		1 in -4	
DESIGN SURFACE LEVEL	16.358	15.979	15.979	15.829	15.839 15.832	ر م	16 029	16.129	16.129	16.042	16.042	15.942	15 795			15.347	
LEVEL DIFFERENCE CUT - / FILL +	0.00	-0.28	-0.23	-0.37	-0.16	10 0	0.04	0.14	0.15	0.14	0.14	0.05	0.16			00:00	
EXISTING SURFACE LEVEL	16.36	16.26	16.21	16.20	16.03 15.95	17.90	15.99	15.99	15.98	15.90	15.90	15.89 15.89	15 63	15.33		15.35	
OFFSET FROM CONTROL LINE	-6.094				-4.329	ט טטט ט	0.000	0.170	0.240	2.678	2.748	2.908	6.818	9.233	11.233	12.493	

DATUM R.L. 14.00		-2.2% -72	2.1% -3.9%		-3%	1 in -4
DESIGN SURFACE LEVEL	15.848 15.854 15.854 15.854 15.704	15.744 15.744 15.821	15.799 15.829 15.929 15.929 15.853	15.853 15.753 15.716 15.799	15.494	
LEVEL DIFFERENCE CUT - / FILL +	0.00 0.01 0.02 -0.13	-0.05	-0.01 0.02 0.12 0.11 0.03	-0.07 -0.07 -0.01	0.34	
EXISTING SURFACE LEVEL	15.85 15.83 15.83	15.79	15.81 15.81 15.81 15.82	15.82 15.82 15.82 15.62	15.15	14.98
OFFSET FROM CONTROL LINE	-4.154 -4.130 -3.980 -3.950	-3.500	1.062 1.072 1.233 1.303 3.260	3.501 3.501 7.401	10.901	14.728

CH 1890

CH 1881.971

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		TTT	-3%	1		-3.6%	6			-3	%		1 in -4	
DATUM R.L. 14.00				Į.	<u></u>	$\overline{}$		\mathscr{Y}	7	1				
DESIGN SURFACE LEVEL	16.140	16.080 15.930 15.970	15.991	16.108			16.157	16.157	16.05/	15.910	15.858	15.798	15.471	
LEVEL DIFFERENCE CUT - / FILL +	00.00	0.000	-0.11	0.02	0.05	0.15	0.17	0.18	0.08	0.23	0.36	0.36		
EXISTING SURFACE LEVEL	16.14	16.13 16.12 16.10	16.10	16.09	16.09	16.08	15.98	15.98	15.97	15.68	15.50	15.43	rc,	
OFFSET FROM CONTROL LINE	-5.403	-5.224 -5.074 -5.044 -4.594	-3.900	0.000	0.010	0.240	2.469	2.539	2.699	6.609	8.325	10.325	11.634	

DATUM R.L. 14.00			_	-2.4%	-2.4	%		3.7%	<u>.</u>		_			-3%		1 in -4	
DESIGN SURFACE LEVEL	15.838	15.836 15.686	15.717	15.720	15.812	15.820	15.920	15.920	15.843	15.843	15.743	13.7 13	15.590	15 485	i 16	၂ တ	
LEVEL DIFFERENCE CUT - / FILL +	0.00	0.01 -0.13	-0.10	cn.u-	0.03	0.01	0.11	0.11	0.02	0.02	-0.08	-0-	-0.02	26 0			
EXISTING SURFACE LEVEL	15.84	15.82	15.82	15.70	13.78 17.81	15.81	15.81	15.81	15.82	15.82	15.82	13.02	15.62	15 22	15.07	14.99	
OFFSET FROM CONTROL LINE	-4.144	-3.990	-3.900	-3.310	0.000	0.896	1.057	1.127	3.251	3.321	3.481	0.40	7.391	10 891			

CROSS SECTIONS
HAUSSMAN DRIVE
SCALE 1:200

CH 1880

PRELIMINARY

Rev: C

С	FINAL CONCEPT DESIGN	RJC	GM	AS	06.10.17
В	FINAL CONCEPT DESIGN	C.B	G.M	A.S	15.09.17
Α	ISSUED FOR REVIEW	C.B	G.M	A.S	13.07.17
No	Revision Note: * indicates signatures on original issue of drawling or last revision of drawling	Drawn	Job Manager	Project Director	Date

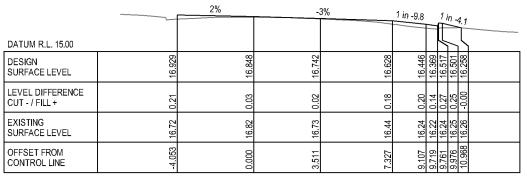
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E ntlmail@ghd.com W www.ghd.com

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MAITLAND CITY COUNCIL HAUSSMAN DRIVE ROAD UPGRADE	
CROSS SECTIONS - HAUSSMAN DRIVE SHEET 31 OF 35	
SHEET 31 OF 33	

CH 1840



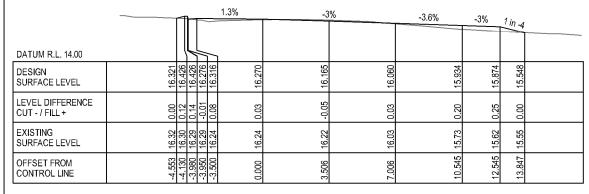


СН	1940

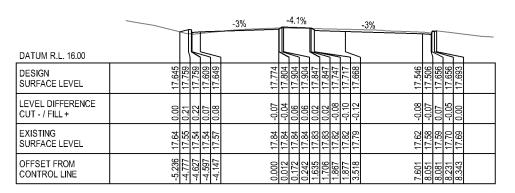
		2%	3	%	
DATUM R.L. 15.00					
DESIGN SURFACE LEVEL	16.775	16.705	16.599	16.494	
LEVEL DIFFERENCE CUT - / FILL +	-0.01	-0.01	0.02	0.12	
EXISTING SURFACE LEVEL	16.78	16.72	16.58	16.38	
OFFSET FROM CONTROL LINE	-3.500	0.000	3.509	600.7	

CH 1930

		2%		%	8.3%	-3.4% 1 /	in 4	
							7	.3
DATUM R.L. 14.00								
DESIGN SURFACE LEVEL	16.593	16.523	16.417	16.312		15.907	15.739	
LEVEL DIFFERENCE CUT - / FILL +	0.05	0.01	0.02	0.14	0.10	0.15	0.00	
EXISTING SURFACE LEVEL	16.54	16.51	16.40		15.88	15.75	15.74	
OFFSET FROM CONTROL LINE	-3.500	00000	3.507	7.00.7	11.018	13.157	13.874	



CH 1910



CH 1980

		-2.7%	-3%	
DATUM R.L. 16.00				
DESIGN SURFACE LEVEL	17.499	17.533 17.533 17.383 17.423	17.536 17.565 17.665 17.665 17.646 17.547 17.547 17.547	17.307 17.267 17.417 17.417 17.462
LEVEL DIFFERENCE CUT - / FILL +	0.00	0.06 0.08 -0.07 0.08	-0.05 -0.02 0.08 0.08 0.07 -0.03 -0.06	-0.04 -0.04 -0.06 -0.04 -0.00
EXISTING SURFACE LEVEL	17.50	17.48 17.45 17.34	17.58 17.58 17.58 17.58 17.58 17.58 17.58 17.58	17.35 17.30 17.36 17.46 17.46
OFFSET FROM CONTROL LINE	-4.907	-4.773 -4.623 -4.593 -4.143	0.000 0.016 0.176 0.246 0.385 0.456 0.617 3.516	7.630 8.080 8.110 8.260 8.395

CH 1970

		- 100	_		-1.1%		-3%				
DATUM R.L. 16.00		Ç						Ĺ			
DESIGN SURFACE LEVEL	17.345	17.364	17.364	17.254	17.298	17.192	17.068	17.028	17.178	-	
LEVEL DIFFERENCE CUT - / FILL +	00.0	0.04	-0.13	0.13	-0.02	20.0-	0.04	0.05	0.13	0.00	
EXISTING SURFACE LEVEL	17.35	17.33	17.26	17.12	17.32			16.98		: ~:	
OFFSET FROM CONTROL LINE	-4.843	-4.769	-4.619		000.0	3.515		8.108			

CH 1960

	— Ala	0.6%		-3%	1 in	-4
DATUM R.L. 15.00						
DESIGN	093 195 045	085	72	30	90 94	98
SURFACE LEVEL	17.0 17.1 17.1	17.0	16.954	16.8	16.940	16.7
LEVEL DIFFERENCE CUT - / FILL +	0.00 0.17 0.19 0.05	0.00	0.02	0.14	0.15	0.00
EXISTING SURFACE LEVEL	17.09 17.03 17.00 17.00	16.91	16.94	16.69	16.64	16.73
OFFSET FROM CONTROL LINE	-5.180 -4.774 -4.594		3.513	7.649	8.099	9.136

CH 1950

HAUSSMAN DRIVE SCALE 1:200

CROSS SECTIONS

PRELIMINARY

С	FINAL CONCEPT DESIGN	RJC	GM	AS	06.10.1
В	FINAL CONCEPT DESIGN	C.B	G.M	A.S	15.09.1
Α	ISSUED FOR REVIEW	C.B	G.M	A.S	13.07.1
No	Revision Note: * indicates signatures on original issue of drawing or last revision of drawing	Drawn	Job Manager	Project Director	Date

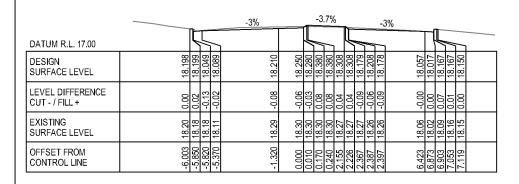
0	2	4	6m
SC	ALE 1:200 /	AT ORIGINAL	SIZE

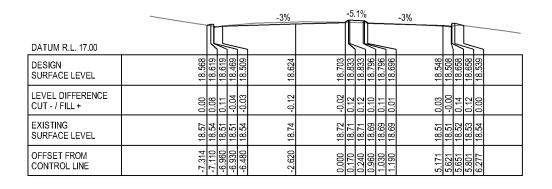
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MAITLAND CITY COUNCIL HAUSSMAN DRIVE ROAD UPGRADE **CROSS SECTIONS - HAUSSMAN DRIVE SHEET 32 OF 35**



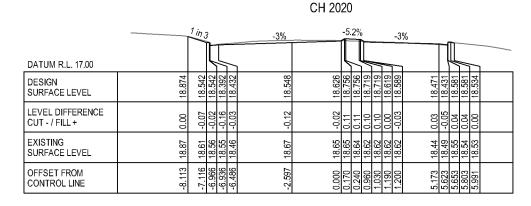




DATUM R.L. 16.00				-3%			-3.69	%			-3%		Ц			
DESIGN SURFACE LEVEL		ا∞ا	17.996	18.158	Ψ.	8.2	18.318			18.108				18.095		
LEVEL DIFFERENCE CUT - / FILL +	0.0	ß	-0.13	70:0-	-0.06		0.0/ 0.07	0.03	0.03	11	-0.10	-0.02	-0.01		-0.00	
EXISTING SURFACE LEVEL	7	8.	18.12 18.04	18.23			18.24 18.24	18.21	18.21	18.20	18.20	∞:	 ~	18.00	∞i	

OFFSET FROM

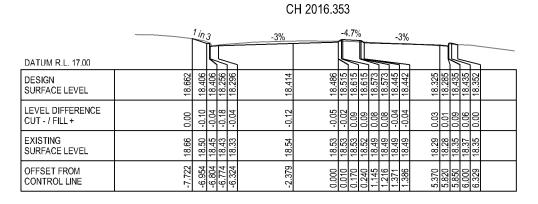
CONTROL LINE



CH	1997	394

CH 2000

	-	-3%	-3.5%		
DATUM R.L. 16.00					
DESIGN SURFACE LEVEL	17.998 17.991	17.991 17.841 17.881	ထါထါထါထါထါ ထါတါ	17.957 17.927 17.911 17.789	17.749 17.899 17.927
LEVEL DIFFERENCE CUT - / FILL +	0.00	0.02 -0.13 0.02	-0.07 -0.07 -0.04 0.06 0.06 0.02 0.02	-0.08 -0.11 -0.12	-0.05 0.10 -0.04 0.00
EXISTING SURFACE LEVEL		17.98 17.97 17.86		18.04 18.04 18.03 17.85	17.80 17.80 17.93 17.93
OFFSET FROM CONTROL LINE	-4.989 -4.968	-4.818 -4.788 -4.338	-0.233 0.000 0.010 0.170 0.240 2.644 2.714	2.874 2.884 3.346 7.406	7.856 7.886 8.036 8.120



CH 1990

	-	_	-3%	-3.8%	-3%	
DATUM R.L. 16.00						
DESIGN SURFACE LEVEL		17.848 17.698 17.738		17.892 17.992 17.992 17.921	17.922 17.822 17.792 17.756	17.634 17.594 17.744 17.744 17.783
LEVEL DIFFERENCE CUT - / FILL +		0.18 0.03 0.06	-0.07	-0.04 0.06 0.06 0.01	0.02 -0.08 -0.11 -0.12	-0.08 -0.07 0.07 -0.05 0.00
EXISTING SURFACE LEVEL		17.67 17.66 17.68	17.93	17.93 17.94 17.94 17.91	17.91 17.90 17.88	17.71 17.66 17.67 17.79 17.78
OFFSET FROM CONTROL LINE	-5.146	-4.629 -4.599 -4.149	0.000	0.010 0.170 0.240 2.099	2.170 2.331 2.341 3.519	7.591 8.041 8.071 8.221 8.338

		_				3%		Æ	-3.9	9%	_	_	_	_	-3%	6		_				
DATUM R.L. 17.00		Ţ	Į	$\overline{}$	_			Ļ	~		Ų	_	_	_	_	1	Ī	Ţ	Ţ	_	_	
DESIGN SURFACE LEVEL		18.247				18.258	18.308			18.438							il٥	ölه	∞il	œί	18.166	
LEVEL DIFFERENCE CUT - / FILL +	0.00	0.05	0.06	-0.08	-0.03	60.0-	-0.05	-0.02	0.08	0.08	0.05	0.05	-0.07	-0.04	-0.07	0 01		10.0	0.07	0.10	0.00	
EXISTING SURFACE LEVEL		18.20				18.35	18.36	18.36	18.36	18.36	18.33	18.32	18.32	18.32	18.32	18 11				18.13	18.17	
OFFSET FROM CONTROL LINE	-6.445	-6.306				-1.646	0.000	0.010	0.170	0.240	1.854	1.925	2.063	2.086	2.096	6 110				6.742	7.016	

CH 1983.714

CH 2002.436

CH 2010

CROSS SECTIONS

HAUSSMAN DRIVE SCALE 1:200

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Rev: C

С	FINAL CONCEPT DESIGN	RJC	GM	AS	06.10.17
В	FINAL CONCEPT DESIGN	C.B	G.M	A.S	15.09.17
Α	ISSUED FOR REVIEW	C.B	G.M	A.S	13.07.17
No	Revision Note: * indicates signatures on original issue of drawing or last revision of drawing	Drawn	Job Manager	Project Director	Date
	-				

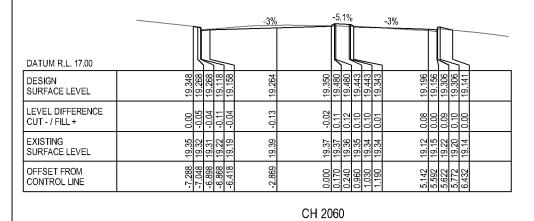
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	SCAI	E 1:200	AT ORIG	SINAL SI	ZE

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MAITLAND CITY COUNCIL HAUSSMAN DRIVE ROAD UPGRADE CROSS SECTIONS - HAUSSMAN DRIVE **SHEET 33 OF 35**





				3	%	-5.	1%	_	_		-3%			F ~	_		
DATUM R.L. 18.00				7		ļ				_	_						
DESIGN SURFACE LEVEL		19.558								19.635		19 489		19.599			
LEVEL DIFFERENCE CUT - / FILL +	0.00	-0.11	-0.21	-0.14	-0.03	0.10	0.11	0.09	0.09	-000	-0.03	0.06	-0.05	0.09	0.07	0.00	
EXISTING SURFACE LEVEL	19.74	19.66 19.64	19.62	19.69	19.67	19.67	19.67	19.65	19.64	19.64	19.64	19.43		19.50			
OFFSET FROM CONTROL LINE	-7.662	-7.122 -6 972	-6.942				0.240		1.030	1.190	1.200	5 114	5.564	5.594	5.744	6.165	

DATUM R.L. 17.00					-5.1	1%		-3%_			'in	4	
DESIGN SURFACE LEVEL	19.240 19.139 19.139		19.138	19.222	19.352	19.352	19.315	19.215	19.067	19.027	19.177	19.177	0.88.0
LEVEL DIFFERENCE CUT - / FILL +	0.00	-0.17 -0.02	-0.11	-0.01	0.12	0.12	0.10	0.01	90:0	-0.00	0.10	0.10	3.0
EXISTING SURFACE LEVEL	19.24 19.19 19.16	19.16 19.05	19.25	19.24	19.23	19.23	19.21	19.20	18.97	19.03	19.08	19.08	88. 0
OFFSET FROM CONTROL LINE	-7.360 -7.058 -6.908		-2.807	0.000	0.170	0.240	1.030	1.190	5.149	5.599	5.629	5.779	010:0

				CH 2100	0							
DATUM R.L. 18.00			<u>-3</u> '	<u> </u>	-5.1%			3%	T			
DESIGN SURFACE LEVEL		19.518 19.518		19.603	19.732	19.695	19.595	n c			19.559	
LEVEL DIFFERENCE CUT - / FILL +	0.00	-0.05	-0.07	-0.01	0.12		:101;		-0.02	0.06	0.08	
EXISTING SURFACE LEVEL	ග්	19.57		19.61	19.61	19.59	19.58	DI C		ပြတ်	19.48	
OFFSET FROM CONTROL LINE	-7.654	-7.103 -6.953 -6.923		0.000	0.170	0.960	1.190	002.	5.12	5.601	5.751 6.229	

DATUM R.L. 17.00				_ _	<u>-3%</u>		-5.	.1%		_	-3%				_	
DESIGN SURFACE LEVEL		18.988			18.989	19.071				19.164	18.916	18.876	19.026	19.026	18.866	
LEVEL DIFFERENCE CUT - / FILL +	0.00	-0.00	-0.15	0.02	-0.09	0.01	0.15	0.15	0.13	0.03	20.07	-0.04	_	0.10	0.00	
EXISTING SURFACE LEVEL		18.99	ωi o		19.08	19.06		တြ	തി	19.03		i∣∞i	18.94	l∞i		
OFFSET FROM CONTROL LINE	-7.626	-6.925			-2.744	0.000	0.170	0.240		1.030	5.156	5.606	5.636	5.786	6.429	

CH 2050

					CH 209	0										
DATUM R.L. 18.00	1/1/	73	_	39	ó	-5. ·	1%	_	_	-3%		Ţ	1 in	1	_ ``	
DESIGN SURFACE LEVEL		19.457		19.451	19.541	19.670	19.670	19.633	19.533	19.505				19.497		
LEVEL DIFFERENCE CUT - / FILL +	0.00	-0.04	-0.18	-0.11	-0.01	0.13	0.13	0.11	0.02	-0.01	0.07	-0.04	0.13	0.12	0.00	
EXISTING SURFACE LEVEL		19.50		19.56	19.55	19.54	19.54	19.52	19.52	19.51	19.32	19.38	တ်	19.38	19.31	
OFFSET FROM CONTROL LINE	-7.849	-6.935	-6.455	-2.994	0.000		0.240	1.030		1.200	5.128	5.578	5.608	5.758	6.501	

						CH 2	204	10								
DATUM R.L. 17.00				_	-3%			-5.1	% \[\]		_	-3%				1
DESIGN SURFACE LEVEL		18.814			18.818		18.898	19.028	19.028	18.99	18.891	18.743	ωil.	∞ilo	18.729	
LEVEL DIFFERENCE CUT - / FILL +	00:00	-0.03	-0.14	0.01	-0.10		0.01	0.14	0.14	0.12	0.03	0.05	90.0-	0.08	0.00	
EXISTING SURFACE LEVEL	18.88	18.84	18.81	18.70	18.92		18.89	18.89	0.03	18.87	18.86	18.70			18.73	
OFFSET FROM CONTROL LINE	-7.283	-7.093		-6.463	-2.682		예		0.240	1.030	1.190	5.164	5.614	5.644	6.292	

		MT			3%		-5.	1%	_		-3%	T		T		
DATUM R.L. 18.00		1		\neg			1	Ň		<u> </u>	1	ı		\sim	\cap	1
DESIGN SURFACE LEVEL	19.433	19.374			19.369	19.457				19.549		19.263	19.413			
LEVEL DIFFERENCE CUT - / FILL +	0.00	-0.04	-0.06	-0.03	-0.12	-0.02	0.12	0.12		0.11 0.02	80 0	-0.04	60.0	0.10	0.00	
EXISTING SURFACE LEVEL	19.43	19.41			19.48	19.47	19.47	19.47	19.44	19.44	19 22	19.31	19.32	19.31	19.24	
OFFSET FROM CONTROL LINE	-7.244	-7.066 -6.916	-6.886		-2.931	0.000	0.170	0.240		1.030	5 135	5.585	5.615	5.765	6.436	

CH 2080

CH 2070

CROSS SECTIONS
HAUSSMAN DRIVE SCALE 1:200

PRELIMINARY

С	FINAL CONCEPT DESIGN	RJC	GM	AS	06.10.1
В	FINAL CONCEPT DESIGN	C.B	G.M	A.S	15.09.1
Α	ISSUED FOR REVIEW	C.B	G.M	A.S	13.07.1
No	Revision Note: * indicates signatures on original issue of drawing or last revision of drawing	Drawn	Job Manager	Project	Date

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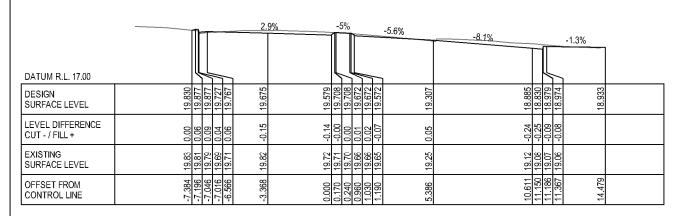
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MAITLAND CITY COUNCIL HAUSSMAN DRIVE ROAD UPGRADE
CROSS SECTIONS - HAUSSMAN DRIVE SHEET 34 OF 35

CH 2030





CH 2140

				0.8	8%	-{ -1	5.19	6 h =		-4.8%		3.7%	_	2	.1%	
DATUM R.L. 18.00	L			l		Į		Ļ	<u> </u>	٦			\mathbb{I}	<u> </u>		I
DESIGN SURFACE LEVEL	19.828	19.791	19.641	19.655					19.720		19.395	19.331		19.439		
LEVEL DIFFERENCE CUT - / FILL +	0.00	0.04	-0.03 -0.03	-0.18		-0.13	0.01	0.01	0.02	70.0-	0.03	-0.10	-0.12	0.03		
EXISTING SURFACE LEVEL	19.83	19.75	19.69	19.83					19.70		19.36	19.43		19.40		
OFFSET FROM CONTROL LINE	-7.289	-7.028	-6.548	-3.305		0.000	0.240	0.960	1.030	081.1	5.299	7.030	7.543	7.664	10.183	

CH 2130

			1.2	2%	-5.1%		-3.9%				2.4%	
DATUM R.L. 18.00			ا ا					T	T			-
DESIGN SURFACE LEVEL	19.680	19.683 19.683 19.533	19.5/3		19.784 19.784					19.601		
LEVEL DIFFERENCE CUT - / FILL +	0.00	0.00 0.02 -0.13	-0.12	-0.10	0.04	0.04	-0.05	-0.03	-0.06	0.10	0.35	
EXISTING SURFACE LEVEL	19.68	19.68 19.66 19.66	19.70	19.75	19.74 19.74	19.71	19.69			19.50		
OFFSET FROM CONTROL LINE		-7.159 -7.009 -6.979		0000	0.170	0.960	1.190	5.213 5.803	6.256	6.286	8.955	

CH 2120

			ì	Ī	_	30	<u>/</u>		-5.	.1%	, -	_	-3.1%		_	T	2	2.5%	
DATUM R.L. 18.00			5	5	`				ŕ	_	_		٦		,	٣	_	1	
DESIGN SURFACE LEVEL	19.778		တါ	19.424	ઝી.	19.564						19.753				19.616			
LEVEL DIFFERENCE CUT - / FILL +	00'0		-0.09	-0.17	-O.14	-0.20		-0.06	0.08	90.0	90.0	0.07	Z0:0z	0.05	-0.01	0.14	0.12	0.30	
EXISTING SURFACE LEVEL	19.78	19.69	19.66	19.60	13.00	19.76		19.72	19.71	19.71	19.69	19.69	8.68			19.48			
OFFSET FROM CONTROL LINE	-7.752	<u> </u>		-6.961		-3.181		0.000				1.030				5.603			

CH 2110

CROSS SECTIONS
HAUSSMAN DRIVE
SCALE 1:200

PRELIMINARY

С	FINAL CONCEPT DESIGN	RJC	GM	AS	06.10.17
В	FINAL CONCEPT DESIGN	С.В	G.M	A.S	15.09.17
Α	ISSUED FOR REVIEW	C.B	G.M	A.S	13.07.17
No	Revision Note: * indicates signatures on original issue of drawing or last revision of drawing	Drawn	Job Manager	Project Director	Date

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•	SCALE	1:200	AT ORK	SINAL S	SIZE	ļ

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24 Honeysuckle Drive, Newcastle NSW 2300 Australia
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Fathers (Auchalana Mariana Antara)

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		Scale	AS SHOWN	This Drawing must not be used for Construction unless signed as Approved	Original Siz

MAITLAND CITY COUNCIL
HAUSSMAN DRIVE ROAD UPGRADE
CROSS SECTIONS - HAUSSMAN DRIVE
SHEET 35 OF 35