



WOODS
Est.1970



ARATAKI DEVELOPMENT - HAVELOCK NORTH

BUILDING B, LEVEL 1
8 NUGENT ST,
GRAFTON, AUCKLAND 1023
+64 9 308 9229
DRAWINGS ISSUED FOR CONSENT
HASTINGS DISTRICT COUNCIL

ARATAKI DEVELOPMENT

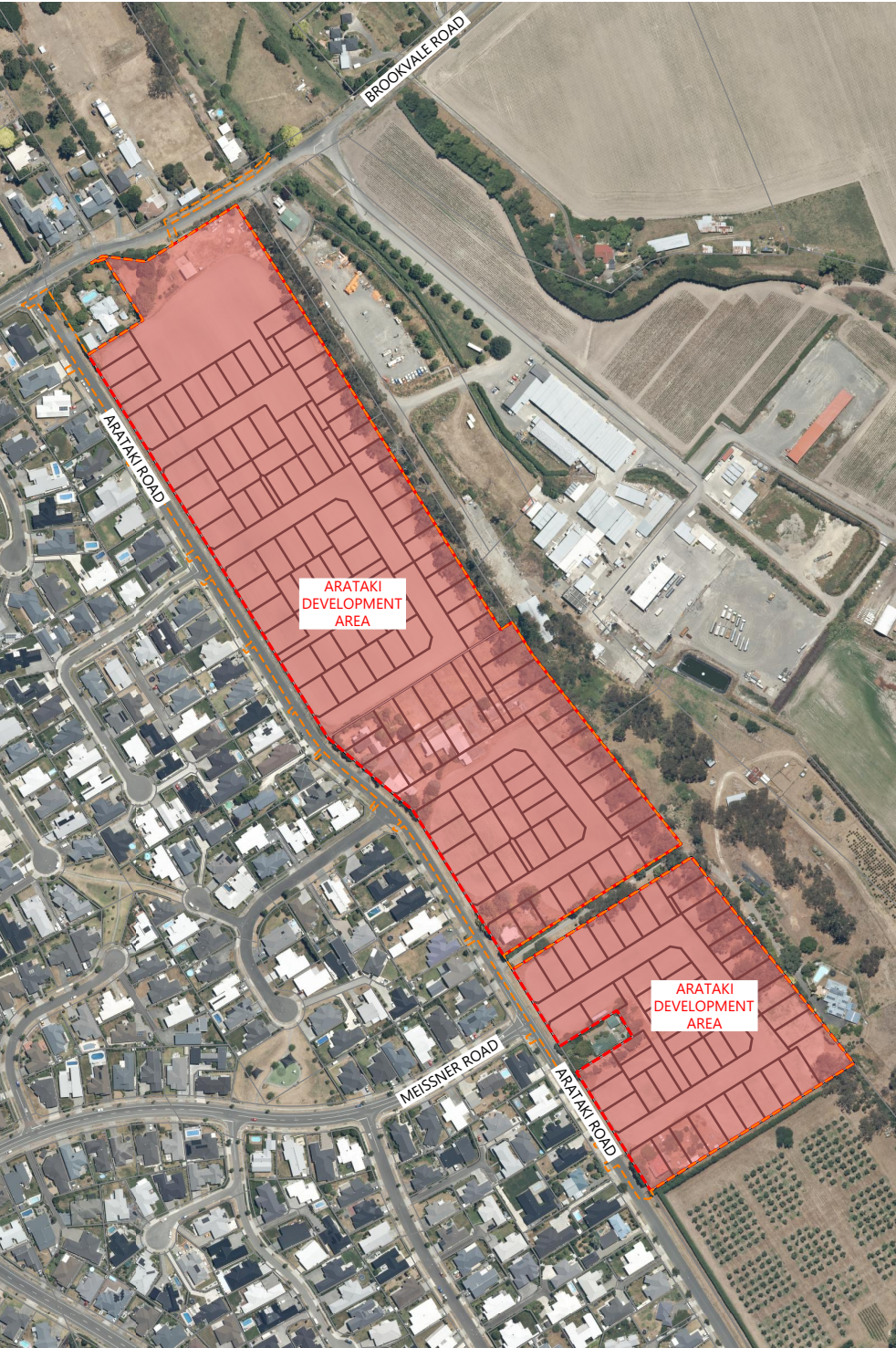
DRAWINGS FOR CONSENT

DRAWINGS INDEX



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P24-244-00-0000-GE	3	DRAWING INDEX
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P24-244-00-0002-SC	3	SCHEME PLAN
P24-244-00-0003-SC	3	SCHEME PLAN
P24-244-00-0010-GE	2	SITE LOCATION PLAN
P24-244-00-0011-GE	2	EXISTING TITLES PLAN
P24-244-00-0020-GE	2	EXISTING FEATURES PLAN
P24-244-00-0030-GE	2	SITE CLEARING PLAN
P24-244-00-0100-GE	2	DEVELOPMENT CONTROL PLAN
P24-244-00-1000-EW	2	EXISTING CONTOUR PLAN
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P24-244-00-1101-EW	2	DESIGN CONTOUR PLAN - SHEET 1
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P24-244-00-1201-EW	2	CUT FILL PLAN - SHEET 1
P24-244-00-1202-EW	2	CUT FILL PLAN - SHEET 2
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P24-244-00-1301-RD	2	EARTHWORKS SECTIONS - SHEET 1
P24-244-00-1302-RD	2	EARTHWORKS SECTIONS - SHEET 2
P24-244-00-1303-RD	2	EARTHWORKS SECTIONS - SHEET 3
P24-244-00-1304-RD	2	EARTHWORKS SECTIONS - SHEET 4
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P24-244-00-1400-EW	2	RETAINING WALL LAYOUT
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P24-244-00-1803-EW	2	SEDIMENT AND EROSION CONTROL PLAN - SHEET 3
P24-244-00-1805-EW	2	SEDIMENT AND EROSION CONTROL PLAN - DRY BASIN
P24-244-00-1810-EW	2	SEDIMENT AND EROSION CONTROL - STANDARD DETAILS SHEET 1
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P24-244-00-2201-RD	2	TYPICAL CROSS SECTIONS - ARATAKI ROAD
P24-244-00-2202-RD	2	TYPICAL CROSS SECTIONS - ACCESS ROAD TYPE 1 & TYPE 2
P24-244-00-2203-RD	2	TYPICAL CROSS SECTIONS - ACCESSWAY, JOAL TYPE 2 & TYPE 3
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P24-244-00-2500-RD	2	ROAD CENTRELINE PLAN
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P24-244-00-2504-RD	2	ROAD LONGSECTIONS - SHEET 4
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P24-244-00-2751-RD	2	SAFE INTERSECTION SIGHT DISTANCE PLAN - SHEET 1
P24-244-00-2752-RD	2	SAFE INTERSECTION SIGHT DISTANCE PLAN - SHEET 2
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P24-244-00-2800-RD	2	ROAD DETAILS - HDC ENG COP - C19 & C19A
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P24-244-00-2802-RD	2	ROAD DETAILS - HDC ENG COP - WS 106
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P24-244-00-3504-DR	2	STORMWATER LONGSECTIONS - SHEET 5
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P24-244-00-3510-DR	2	STORMWATER LONGSECTIONS - SHEET 11
P24-244-00-3600-DR	2	STORMWATER 10 YEAR CATCHMENT PLAN
P24-244-00-3800-DR	2	STORMWATER STREAM OUTLET DETAIL
P24-244-00-3810-DR	2	STORMWATER GPT DETAIL
P24-244-00-3850-DR	2	BASIN LAYOUT PLAN
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P24-244-00-3900-DR	2	OVERLAND FLOW PATH - POST DEVELOPMENT PLAN
P24-244-00-3901-DR	2	OVERLAND FLOW SECTIONS
P24-244-00-3902-DR	2	OVERLAND FLOW SECTIONS
P24-244-00-3903-DR	2	OVERLAND FLOW SECTIONS
P24-244-00-3904-DR	2	OVERLAND FLOW SECTIONS
P24-244-00-3905-DR	2	OVERLAND FLOW SECTIONS
P24-244-00-3906-DR	2	OVERLAND FLOW SECTIONS
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P24-244-00-3908-DR	2	OVERLAND FLOW SECTIONS
P24-244-00-3909-DR	2	OVERLAND FLOW SECTIONS
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P24-244-00-4000-DR	2	WASTEWATER DRAINAGE LAYOUT PLAN
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P24-244-00-4503-DR	2	WASTEWATER LONGSECTION - SHEET 4
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P24-244-00-4505-DR	2	WASTEWATER LONGSECTION - SHEET 6
P24-244-00-4506-DR	2	WASTEWATER LONGSECTION - SHEET 7
P24-244-00-4507-DR	2	WASTEWATER LONGSECTION - SHEET 8
P24-244-00-4600-DR	2	WASTEWATER CATCHMENT PLAN
P24-244-00-5000-WR	2	WATER RETICULATION LAYOUT PLAN
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P24-244-00-5002-WR	2	WATER RETICULATION LAYOUT PLAN - SHEET 2
P24-244-00-5003-WR	2	WATER RETICULATION LAYOUT PLAN - SHEET 3
P24-244-00-5500-WR	2	FIRE HYDRANT SPACING PLAN



REVISION DETAILS	INT	DATE	SURVEYED	WOODS		BUILDING B, LEVEL 1 8 NUGENT ST, GRAFTON, AUCKLAND 1023 +64 9 308 9229 WOODS.CO.NZ		ARATAKI DEVELOPMENT - HAVELOCK NORTH	DRAWING INDEX		STATUS	ISSUED FOR CONSENT	REV
2 ISSUED FOR CONSENT	TB	JUNE 2025	DESIGNED	TB							SCALE	1:5000 @ A3	3
3 SCHEME PLAN UPDATED	BLO	NOV 2025	DRAWN	TB							COUNCIL	HASTINGS DISTRICT COUNCIL	
			CHECKED	BLO							DWG NO	P24-244-00-0000-GE	
			APPROVED	BF									

SHEET 0002



PROPOSED EASEMENTS IN GROSS			
PURPOSE	SHOWN AS	BURDENED LAND	GRANTEE
RIGHT TO DRAIN WATER AND SEWAGE	A	LOT 2001	HASTINGS DISTRICT COUNCIL
RIGHT TO DRAIN WATER AND SEWAGE	B	LOT 2006	HASTINGS DISTRICT COUNCIL
RIGHT TO DRAIN WATER AND SEWAGE	C	LOT 2008	HASTINGS DISTRICT COUNCIL
RIGHT TO DRAIN WATER AND SEWAGE	D	LOT 2009	HASTINGS DISTRICT COUNCIL
RIGHT TO DRAIN WATER	LOTS 2000 & 2002-2005		HASTINGS DISTRICT COUNCIL
PROPOSED LAND COVENANTS			
AREAS WILL BE SUBJECT PROPOSED CONSENT NOTICE (BUFFER INTERFACE).			

EXISTING EASEMENTS TO BE SURRENDERED				
PURPOSE	SHOWN AS	BURDENED LAND	BENEFITED LAND	CREATED BY
RIGHT TO DRAIN SEWAGE	AREA A DP 540945	LOT 2 DP 540945	LOT 1 DP 540945	11544178.6
RIGHT TO CONVEY ELECTRICITY AND TELECOMMUNICATIONS	AREA A DP 546439	LOT 2 DP 546439	LOT 1 DP 546439	11791202.6
RIGHT TO DRAIN SEWAGE	AREA B DP 546439	LOT 2 DP 546439	LOT 1 DP 546439	11791202.6
EXISTING CONSENT NOTICES TO BE CANCELLED				
11544178.5 AND 11791202.5				

AMALGAMATION CONDITIONS
LOT 2000 (LEGAL ACCESS) IS TO BE HELD AS 2 UNDIVIDED HALF SHARES BY THE OWNERS OF LOTS 121-122 HEREON AS TENANTS IN COMMON IN THE SAID SHARES AND THAT INDIVIDUAL RECORDS OF TITLE BE ISSUED IN ACCORDANCE THEREWITH.
LOT 2001 (LEGAL ACCESS) IS TO BE HELD AS 2 UNDIVIDED HALF SHARES BY THE OWNERS OF LOTS 19-20 HEREON AS TENANTS IN COMMON IN THE SAID SHARES AND THAT INDIVIDUAL RECORDS OF TITLE BE ISSUED IN ACCORDANCE THEREWITH.
LOT 2002 (LEGAL ACCESS) IS TO BE HELD AS 2 UNDIVIDED HALF SHARES BY THE OWNERS OF LOTS 125-126 HEREON AS TENANTS IN COMMON IN THE SAID SHARES AND THAT INDIVIDUAL RECORDS OF TITLE BE ISSUED IN ACCORDANCE THEREWITH.
LOT 2003 (LEGAL ACCESS) IS TO BE HELD AS 2 UNDIVIDED HALF SHARES BY THE OWNERS OF LOTS 127-128 HEREON AS TENANTS IN COMMON IN THE SAID SHARES AND THAT INDIVIDUAL RECORDS OF TITLE BE ISSUED IN ACCORDANCE THEREWITH.
LOT 2004 (LEGAL ACCESS) IS TO BE HELD AS 2 UNDIVIDED HALF SHARES BY THE OWNERS OF LOTS 140-141 HEREON AS TENANTS IN COMMON IN THE SAID SHARES AND THAT INDIVIDUAL RECORDS OF TITLE BE ISSUED IN ACCORDANCE THEREWITH.
LOT 2005 (LEGAL ACCESS) IS TO BE HELD AS 2 UNDIVIDED HALF SHARES BY THE OWNERS OF LOTS 142-143 HEREON AS TENANTS IN COMMON IN THE SAID SHARES AND THAT INDIVIDUAL RECORDS OF TITLE BE ISSUED IN ACCORDANCE THEREWITH.
LOT 2006 (LEGAL ACCESS) IS TO BE HELD AS 2 UNDIVIDED HALF SHARES BY THE OWNERS OF LOTS 71-72 HEREON AS TENANTS IN COMMON IN THE SAID SHARES AND THAT INDIVIDUAL RECORDS OF TITLE BE ISSUED IN ACCORDANCE THEREWITH.
LOT 2007 (LEGAL ACCESS) IS TO BE HELD AS 2 UNDIVIDED HALF SHARES BY THE OWNERS OF LOTS 152-153 HEREON AS TENANTS IN COMMON IN THE SAID SHARES AND THAT INDIVIDUAL RECORDS OF TITLE BE ISSUED IN ACCORDANCE THEREWITH.
LOT 2008 (LEGAL ACCESS) IS TO BE HELD AS 9 UNDIVIDED ONE-NINTH SHARES BY THE OWNERS OF LOTS 34-37, 40 & 42-45 HEREON AS TENANTS IN COMMON IN THE SAID SHARES AND THAT INDIVIDUAL RECORDS OF TITLE BE ISSUED IN ACCORDANCE THEREWITH.
LOT 2009 (LEGAL ACCESS) IS TO BE HELD AS 6 UNDIVIDED ONE-SIXTH SHARES BY THE OWNERS OF LOTS 103-104, 109,111, 113 & 115 HEREON AS TENANTS IN COMMON IN THE SAID SHARES AND THAT INDIVIDUAL RECORDS OF TITLE BE ISSUED IN ACCORDANCE THEREWITH.

Comprised In	RT	Area (ha)
Appellation		
LOT 2 DP 540945	908215	5.2339
SECTION 105 SO 1781	HBM2/265	2.9390
LOT 2 DP 546439	930676	2.9838

LEGEND

EXISTING BOUNDARIES	
PROPOSED BOUNDARIES	
AREA SUBJECT TO PROPOSED CONSENT NOTICE (BUFFER INTERFACE)	

NOTES

- SCHEME PLANS SUBJECT TO COUNCIL APPROVAL.
- LOT AREAS AND BOUNDARY DIMENSIONS ARE SUBJECT TO CONFIRMATION UPON FINAL LAND TRANSFER SURVEY.
- ALL ROADS AND ACCESSWAYS ARE TO VEST IN COUNCIL.
- LOTS 140-171 TO BE SUBJECT TO FURTHER LAND COVENANTS.

DISCLAIMER:
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Stage 1	Area (Ha)
Residential Lots	
Lots 1-13, 15-18, 21 & 121-126	1.0846
Road to Vest	
Lot 3000, 3006	0.2418
Jointly Owned Access Lots	
Lots 2000, 2002	0.0281
Local Purpose (Drainage) Reserve	
Lot 1000	1.0197
Stage Total	2.3742
Stage 2	
Residential Lots	
Lots 14, 19-20, 22-45, 127-134	1.4611
Road to Vest	
Lot 3001	0.3191
Jointly Owned Access Lots	
Lots 2001, 2003 & 2008	0.1923
Accessway to Vest	
Lot 1001	0.0539
Stage Total	2.0264
Stage 3	
Residential Lots	
Lots 46-59 & 135-141	0.9486
Road to Vest	
Lot 3002	0.3028
Jointly Owned Access Lots	
Lot 2004	0.0205
Stage Total	1.2719
Stage 4	
Residential Lots	
Lots 60-89 & 142-151	1.8922
Road to Vest	
Lot 3003	0.5180
Jointly Owned Access Lots	
Lots 2005-2006	0.0269
To Vest As Accessway	
Lot 1002	0.0610
Total	2.4981
Stage 5	
Residential Lots	
Lots 90-99, 107-108, 110, 112, 114, 116 & 152-159	1.0750
Road to Vest	
Lot 3004	0.3290
Jointly Owned Access Lots	
Lot 2007	0.0045
Total	1.4085
Stage 6	
Residential Lots	
Lots 100-106, 109, 111, 113, 115, 117-120 & 160-171	1.2281
Road to Vest	
Lot 3005	0.2522
Jointly Owned Access Lots	
Lot 2009	0.0949
Total	1.5752



REVISION DETAILS	INT	DATE	SURVEYED	WOODS
2 ISSUED FOR CONSENT	KR	JUNE 2025	DESIGNED	WOODS
3 RFI RESPONSE	CC	20/11/2025	DRAWN	CC
			CHECKED	CH
			APPROVED	BLO



BUILDING B, LEVEL 1
8 NUGENT ST, GRAFTON,
AUCKLAND 1023
+64 9 308 9229

WOODS.CO.NZ



ARATAKI DEVELOPMENT - HAVELOCK NORTH

SCHEME PLAN



STATUS	ISSUED FOR CONSENT	REV
SCALE	1:3000 @ A3	3
COUNCIL	HASTINGS DISTRICT COUNCIL	
DWG NO	P24-244-00-0001-SC	





LEGEND

EXISTING BOUNDARIES
PROPOSED BOUNDARIES
AREA SUBJECT TO PROPOSED
CONSENT NOTICE (BUFFER
INTERFACE)

NOTES

1. SCHEME PLANS SUBJECT TO COUNCIL APPROVAL.
2. LOT AREAS AND BOUNDARY DIMENSIONS ARE SUBJECT TO CONFIRMATION UPON FINAL LAND TRANSFER SURVEY.
3. ALL ROADS AND ACCESSWAYS ARE TO VEST IN COUNCIL.
4. LOTS 140-171 TO BE SUBJECT TO FURTHER LAND COVENANTS.

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SCALEBAR (m)
0 15 30 45 60 75
SCALE | 1:1500 @A3 | 1:750 @A1

REVISION DETAILS						INT	DATE	SURVEYED	WOODS		BUILDING B, LEVEL 1 8 NUGENT ST, GRAFTON, AUCKLAND 1023 +64 9 308 9229 WOODS.CO.NZ		ARATAKI DEVELOPMENT - HAVELOCK NORTH					STATUS	ISSUED FOR CONSENT	REV
2	ISSUED FOR CONSENT					KR	JUNE 2025	DESIGNED	WOODS							SCALE		1:1500 @ A3	3	
3	RFI RESPONSE					CC	20/11/2025	DRAWN	CC							COUNCIL		HASTINGS DISTRICT COUNCIL		
								CHECKED	CH							DWG NO		P24-244-00-0002-SC		
								APPROVED	BLO											



LEGEND

- EXISTING BOUNDARIES
- PROPOSED BOUNDARIES
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SCALEBAR (m) SCALE | 1:1500 @A3 | 1:750 @A1 |

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								CHECKED	CH				DWG NO	P24-244-00-0003-SC								
								APPROVED	BLO													



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LEGEND

DEVELOPMENT BOUNDARIES

EXTENT OF WORKS



REVISION DETAILS		INT	DATE	SURVEYED	WOODS
2	ISSUED FOR CONSENT	TB	JUNE 2025	DESIGNED	TB
				DRAWN	TB
				CHECKED	BLO
				APPROVED	BF



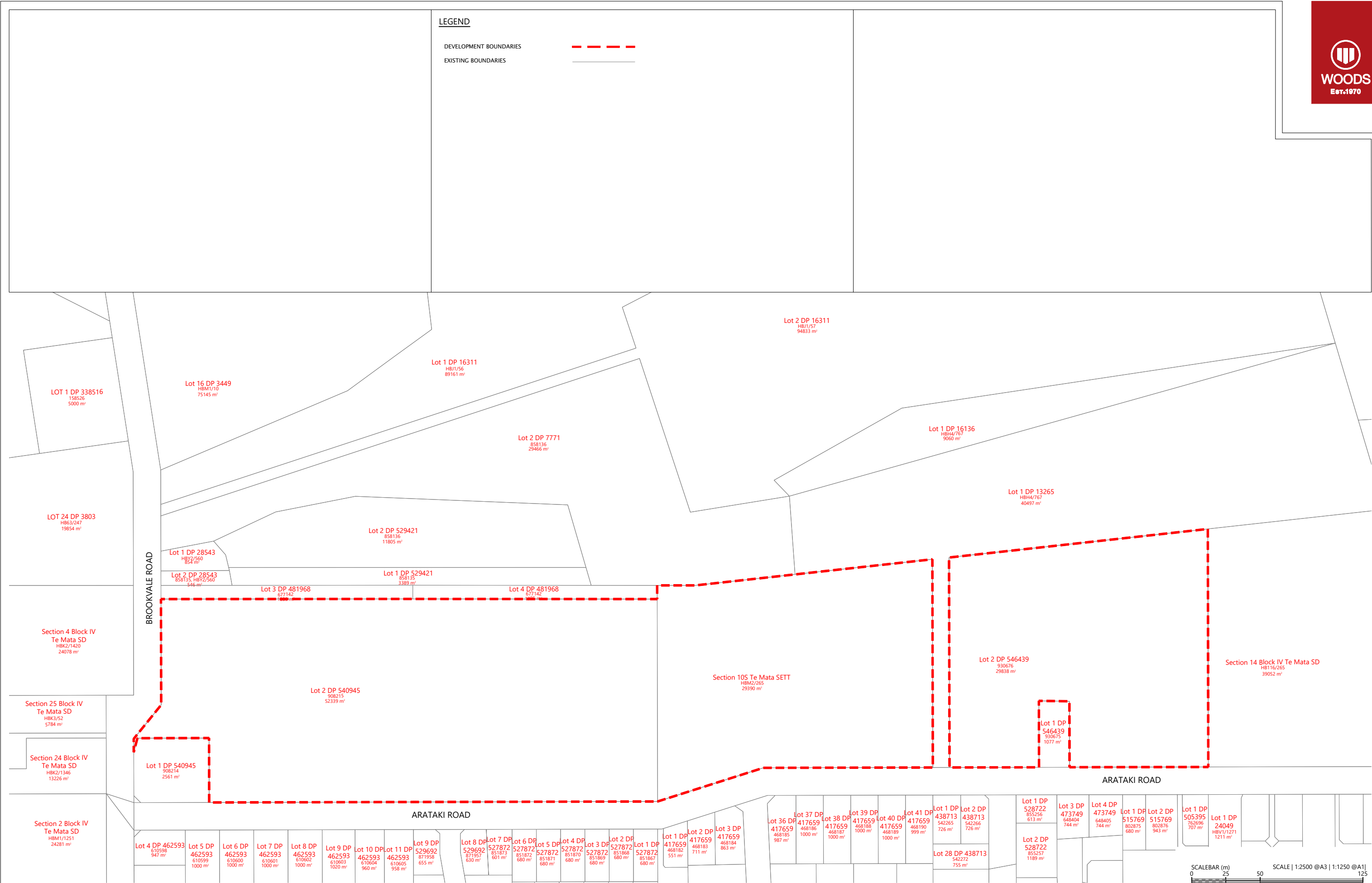
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ARATAKI DEVELOPMENT - HAVELOCK NORTH

SITE LOCATION PLAN

STATUS	ISSUED FOR CONSENT	REV
SCALE	1:5000 @ A3	2
COUNCIL	HASTINGS DISTRICT COUNCIL	
DWG NO	P24-244-00-0010-GE	



REVISION DETAILS		INT	DATE	SURVEYED	WOODS		BUILDING B, LEVEL 1 8 NUGENT ST, GRAFTON, AUCKLAND 1023 +64 9 308 9229		ARATAKI DEVELOPMENT - HAVELOCK NORTH				STATUS	ISSUED FOR CONSENT	REV
1	ISSUED FOR DISCUSSION	TB	APR 2025	DESIGNED	AB				EXISTING TITLES PLAN				SCALE	1:2500 @ A3	2
2	ISSUED FOR CONSENT	TB	JUNE 2025	DRAWN	TB								COUNCIL	HASTINGS DISTRICT COUNCIL	
				CHECKED	BLO								DWG NO	P24-244-00-0011-GE	
				APPROVED	BF										

LEGEND

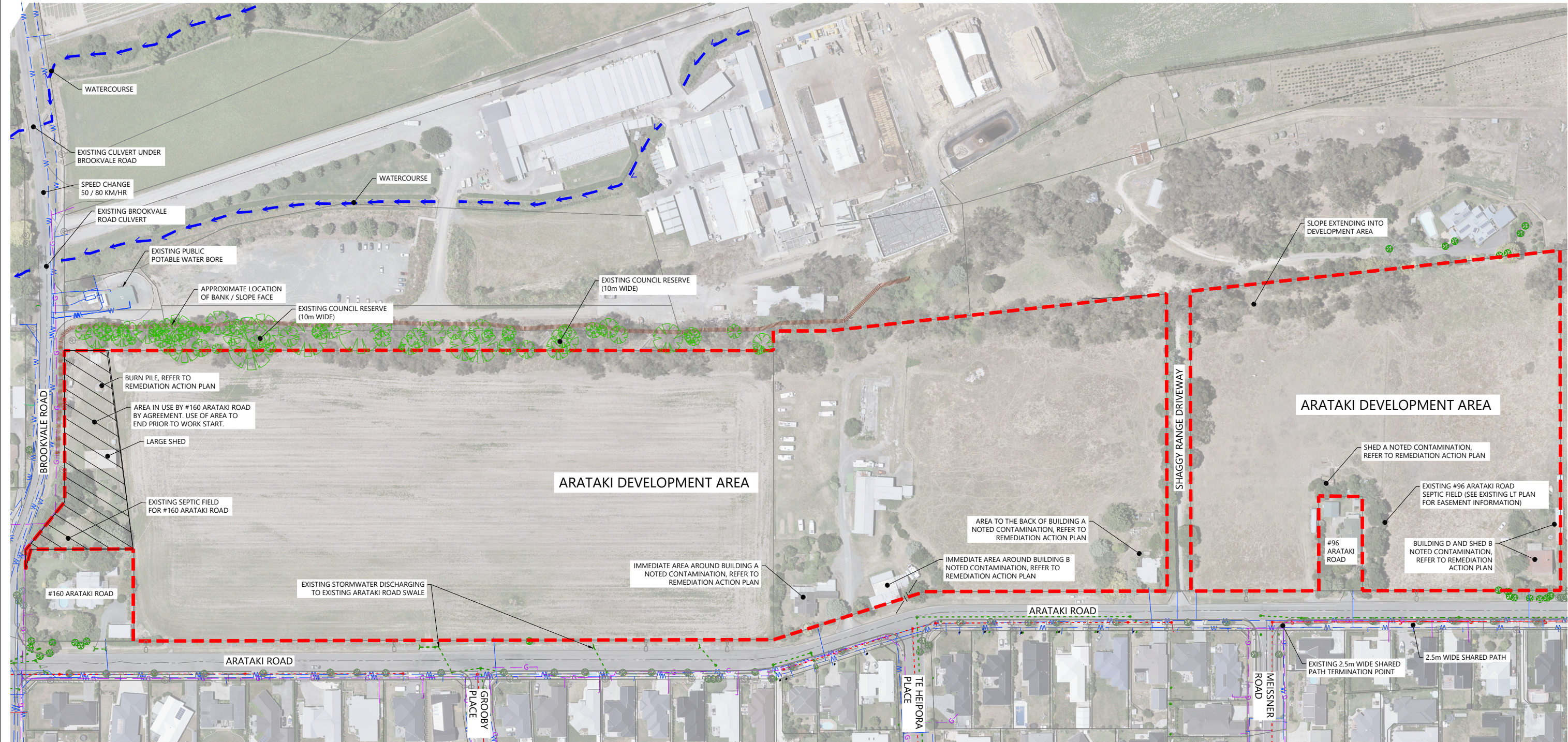
DEVELOPMENT BOUNDARIES

BOUNDARY

WATERCOURSE

BANK/SLOPE FACE

EXISTING TREE TO BE KEPT



REVISION DETAILS		INT	DATE	SURVEYED	WOODS		BUILDING B, LEVEL 1 8 NUGENT ST, GRAFTON, AUCKLAND 1023 +64 9 308 9229 WOODS.CO.NZ	 CDL LAND <small>NEW ZEALAND LIMITED</small>	ARATAKI DEVELOPMENT - HAVELOCK NORTH				STATUS	ISSUED FOR CONSENT	REV
1	ISSUED FOR DISCUSSION	BM	APR 2025	DESIGNED	BLO				EXISTING FEATURES PLAN				SCALE	1:2000 @ A3	2
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				CHECKED	BLO								DWG NO	P24-244-00-0020-GE	
				APPROVED	BF										

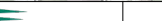
LEGEND

DEVELOPMENT BOUNDARY	
EXISTING BOUNDARIES	
EXISTING BUILDING TO BE REMOVED	
EXISTING CONTAMINATION - ASBESTOS	
EXISTING CONTAMINATION - HEAVY METALS	

NOTES

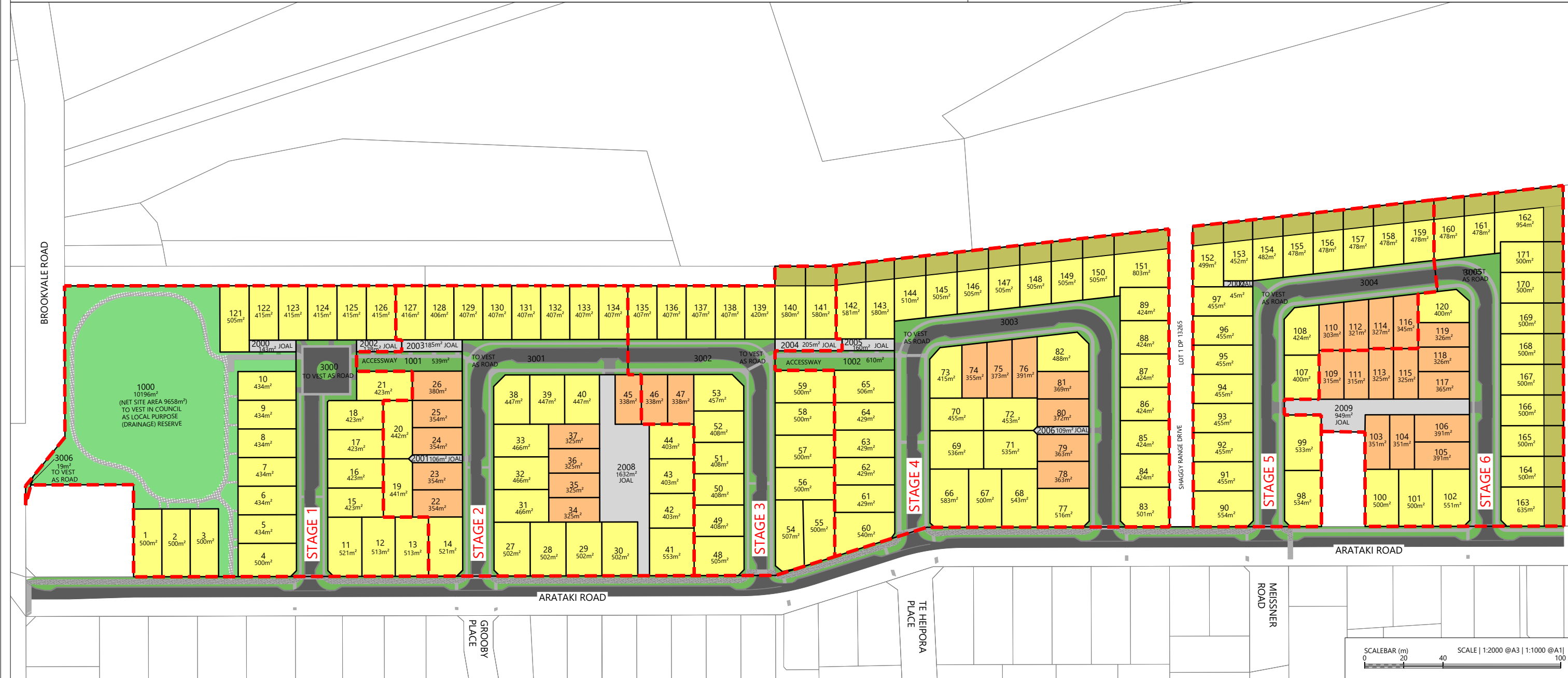
- ALL BUILDINGS ON SITE TO HAVE A BUILDING SURVEY COMPLETED PRIOR TO DEMOLITION/REMOVAL TO CONFIRM CONTAMINATION STATUS AND WHETHER FIBRE CEMENT OR ASBESTOS CONTAINING MATERIALS ARE PRESENT.
- REFER TO SQN CONTAMINATION REPORTS: PSI, DSI AND RAP PRIOR TO COMMENCEMENT OF CLEARING.
- THE CONTRACTOR IS RESPONSIBLE FOR IDENTIFYING AND PROTECTING EXISTING SERVICES AND DRAINAGE ON SITE.
- THE CONTRACTOR SHALL CLARIFY THE AREAS AND EXTENT OF CLEARING WITH THE ENGINEER BEFORE COMMENCEMENT AND CONFIRM THAT ALL NECESSARY CONSENTS ARE IN PLACE.



REVISION DETAILS		INT	DATE	SURVEYED	WOODS		BUILDING B, LEVEL 1 8 NUGENT ST, GRAFTON, AUCKLAND 1023 +64 9 308 9229 WOODS.CO.NZ		ARATAKI DEVELOPMENT - HAVELOCK NORTH					STATUS	ISSUED FOR CONSENT	REV
1	ISSUED FOR DISCUSSION	BM	APR 2025	DESIGNED	BLO				SITE CLEARING PLAN					SCALE	1:2000 @ A3	2
2	ISSUED FOR CONSENT	TB	JUNE 2025	DRAWN	BM									COUNCIL	HASTINGS DISTRICT COUNCIL	
				CHECKED	BLO									DWG NO	P24-244-00-0030-GE	
				APPROVED	BF											

ARATAKI DEVELOPMENT STANDALONE LOTS	STAGE 1	STAGE 2	STAGE 3	STAGE 4	STAGE 5	STAGE 6	TOTAL
	24	35	21	40	24	27	171

LEGEND	
STAGE BOUNDARIES	---
BOUNDARIES	---
ROAD CARRIAGEWAY	---
PEDESTRIAN PATHS	---
INFORMAL PEDESTRIAN PATHS	---
SHARED PATHS	---
JOINT OWNED ACCESS LOTS (JOAL)	---
LOT TYPE 1	---
LOT TYPE 2	---
PROPOSED DRAINAGE RESERVE	---
COVENANT AREA OVER LOT TYPE 1	---



REVISION DETAILS		INT	DATE	SURVEYED	WOODS
1	ISSUED FOR DISCUSSION	BM	APR 2025	DESIGNED	AB
2	ISSUED FOR CONSENT	TB	JUNE 2025	DRAWN	BM
				CHECKED	BLO
				APPROVED	BF

BUILDING B, LEVEL 1
8 NUGENT ST, GRAFTON,
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+64 9 308 9229
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ARATAKI DEVELOPMENT - HAVELOCK NORTH

DEVELOPMENT CONTROL PLAN

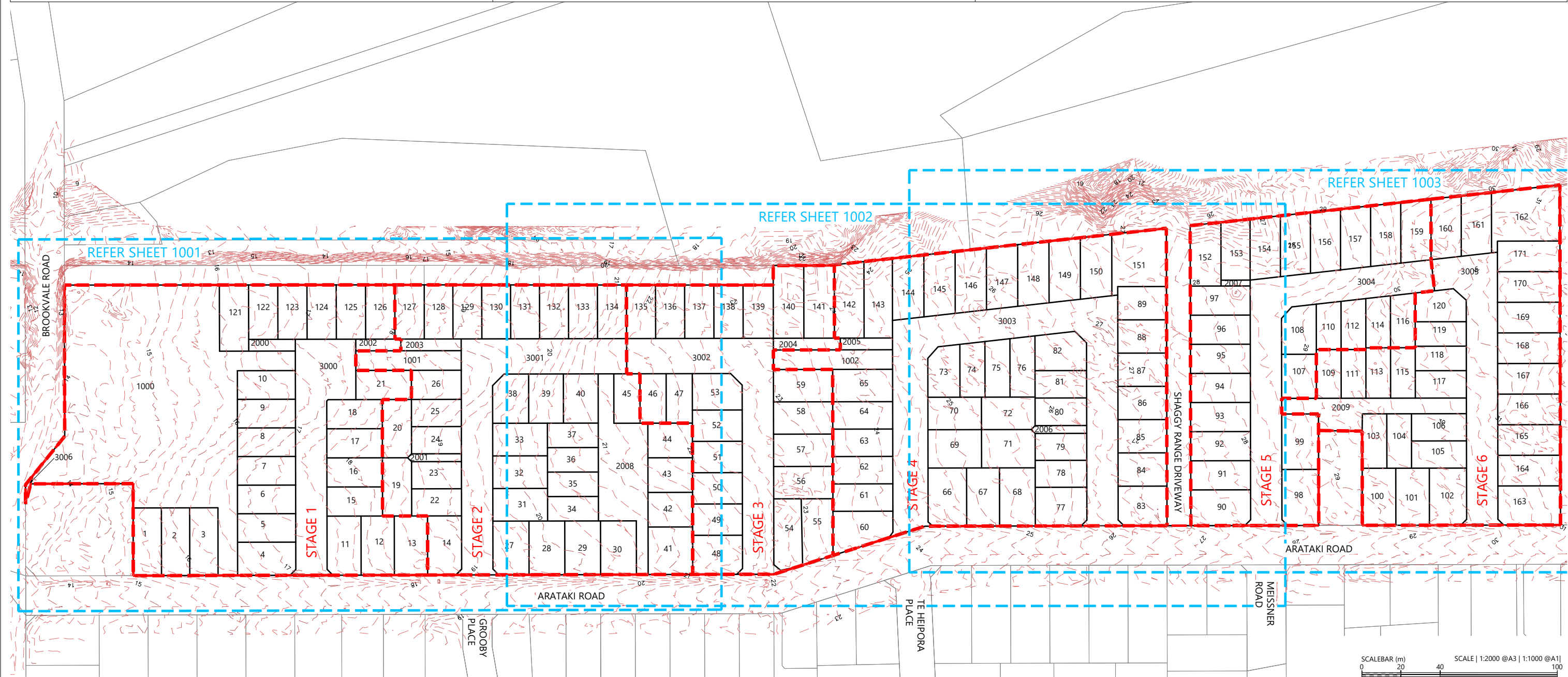
STATUS	ISSUED FOR CONSENT	REV
SCALE	1:2000 @ A3	2
COUNCIL	HASTINGS DISTRICT COUNCIL	
DWG NO	P24-244-00-0100-GE	

LEGEND

STAGE BOUNDARIES	
PROPOSED BOUNDARIES	
EXISTING CONTOURS (0.5m)	

NOTES

1. UNDERFILL DRAINAGE IS TO BE INSTALLED AT THE DIRECTION OF THE ENGINEER. IF THE CONTRACTOR ENCOUNTERS SPRINGS OR OTHER SOURCES OF WATER HE IS TO NOTIFY THE ENGINEER.
2. ALL UNSUITABLE MATERIAL AS DEFINED IN THE SPECIFICATION IS TO BE REMOVED AND THE STRIPPED AREAS INSPECTED BY THE ENGINEER BEFORE COMMENCES.
3. EARTHWORKS ARE NOT TO BE EXTENDED INTO ADJOINING SITES UNLESS THE ENGINEER HAS ISSUED SPECIFIC INSTRUCTIONS.
4. THE CONTRACTOR IS RESPONSIBLE FOR IDENTIFYING AND PROTECTING EXISTING SERVICES AND DRAINAGE ON SITE.
5. THE CONTRACTOR SHALL CLARIFY THE AREAS AND EXTENT OF CLEARING WITH THE ENGINEER BEFORE COMMENCEMENT AND CONFIRM THAT ALL NECESSARY CONSENTS ARE IN PLACE.



REVISION DETAILS	INT	DATE	SURVEYED	WOODS
1 ISSUED FOR DISCUSSION	TB	APR 2025	DESIGNED	AB
2 ISSUED FOR CONSENT	TB	JUNE 2025	DRAWN	TB
			CHECKED	BLO
			APPROVED	BF

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ARATAKI DEVELOPMENT - HAVELOCK NORTH

EXISTING CONTOUR PLAN



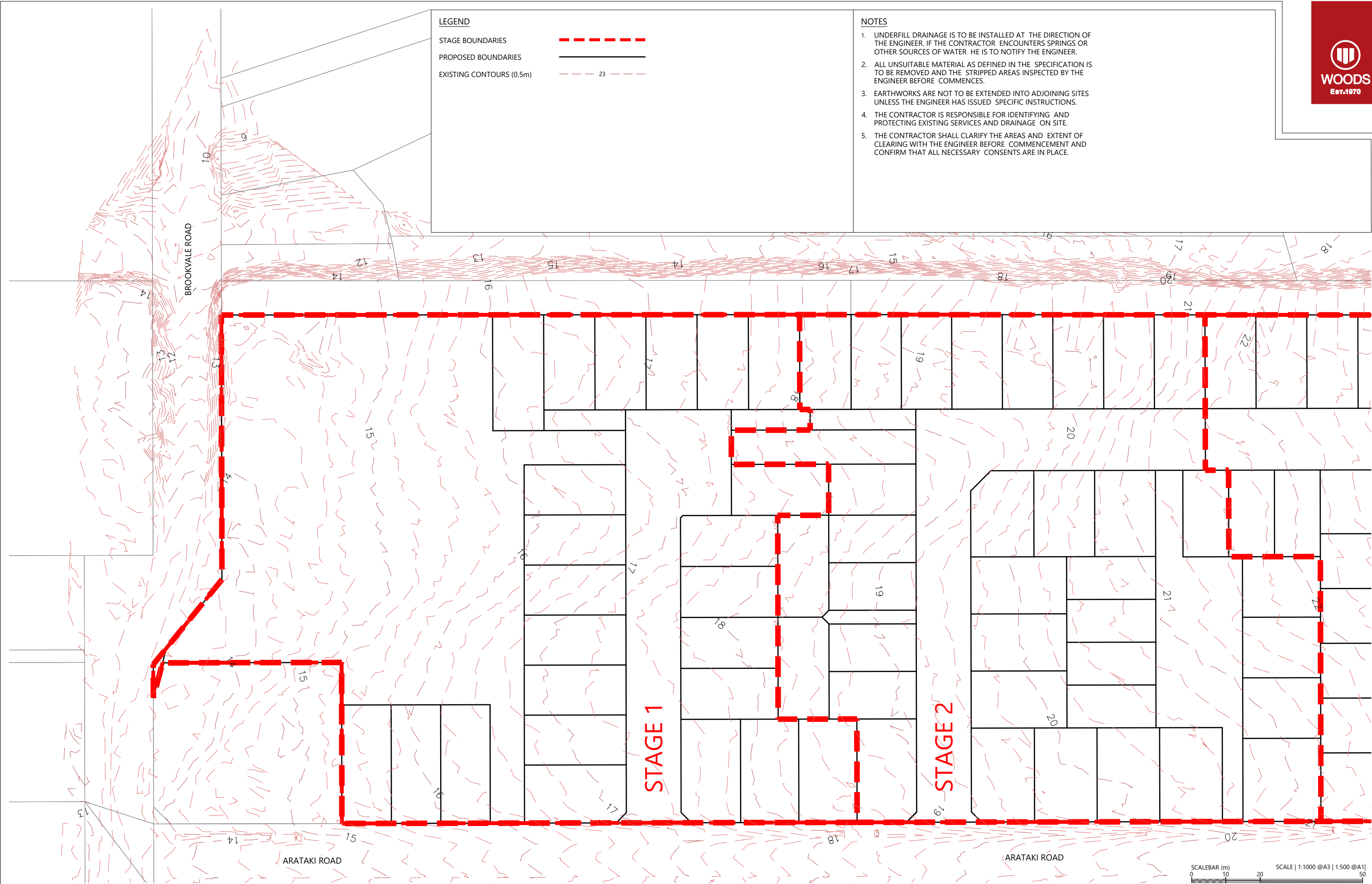
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SCALE	1:2000 @ A3	2
COUNCIL	HASTINGS DISTRICT COUNCIL	
DWG NO	P24-244-00-1000-EW	

LEGEND

STAGE BOUNDARIES	
PROPOSED BOUNDARIES	
EXISTING CONTOURS (0.5m)	

NOTES

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2	ISSUED FOR CONSENT	TB	JUNE 2025	DESIGNED	AB
				DRAWN	TB
				CHECKED	BLO
				APPROVED	BF



BUILDING B, LEVEL 1
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ARATAKI DEVELOPMENT - HAVELOCK NORTH

EXISTING CONTOUR PLAN - SHEET 1



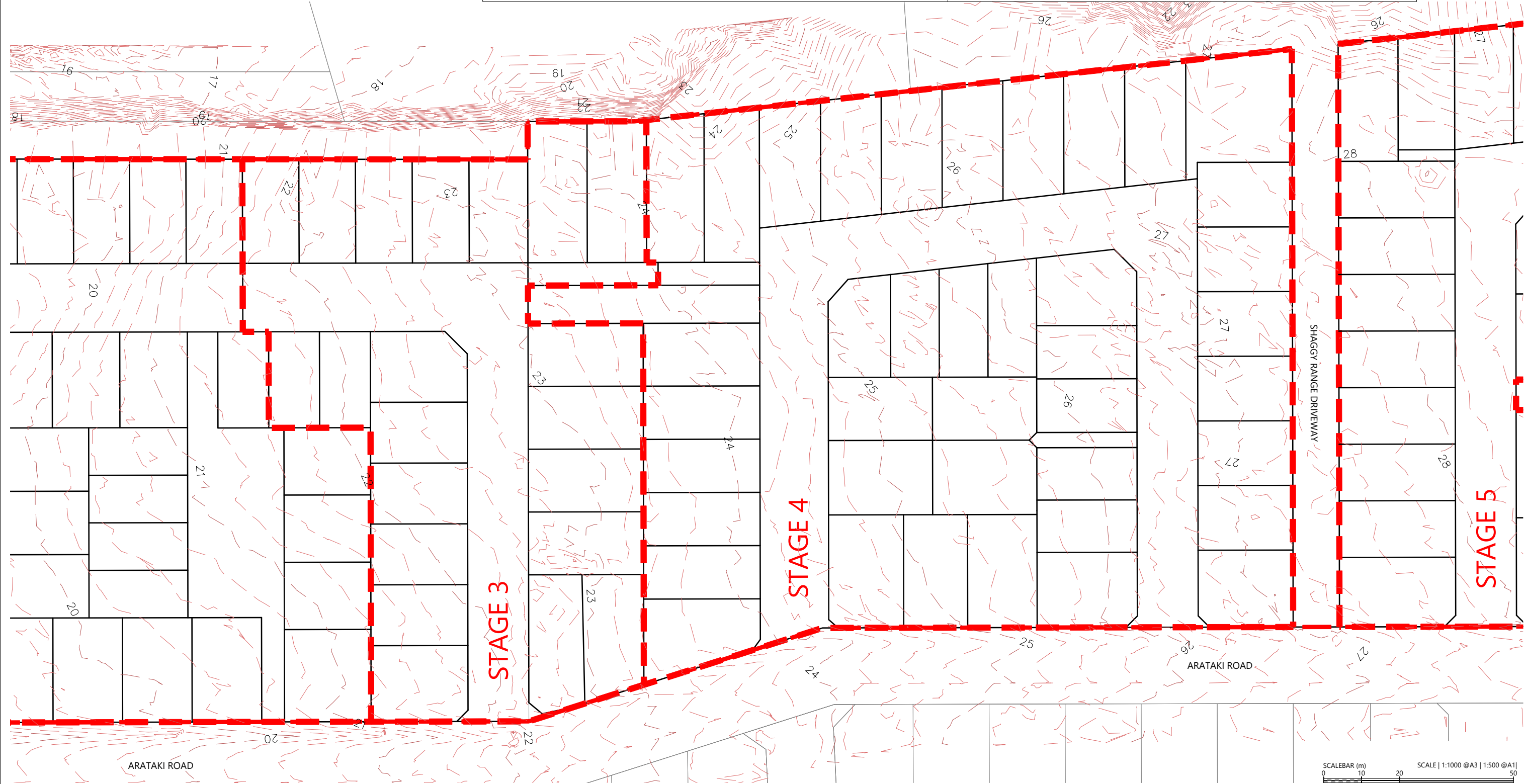
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SCALE	1:1000 @ A3	2
COUNCIL	HASTINGS DISTRICT COUNCIL	
DWG NO	P24-244-00-1001-EW	

LEGEND

- STAGE BOUNDARIES
PROPOSED BOUNDARIES
EXISTING CONTOURS (0.5m)

NOTES

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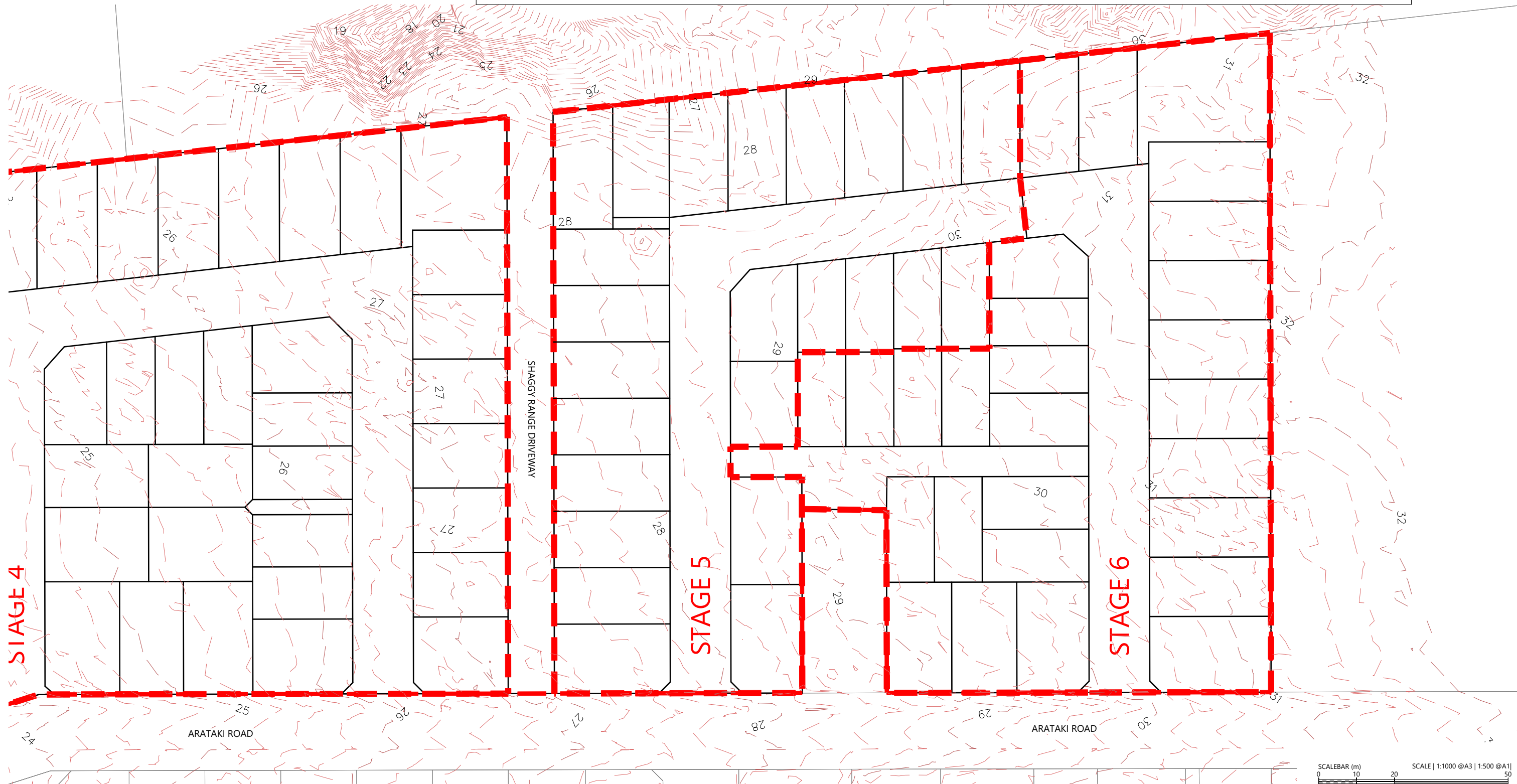
REVISION DETAILS		INT	DATE	SURVEYED	WOODS		BUILDING B, LEVEL 1 8 NUGENT ST, GRAFTON, AUCKLAND 1023 +64 9 308 9229 WOODS.CO.NZ	 CDL LAND NEW ZEALAND LIMITED	ARATAKI DEVELOPMENT - HAVELOCK NORTH				STATUS	ISSUED FOR CONSENT	REV	
2	ISSUED FOR CONSENT	TB	JUNE 2025	DESIGNED	AB				EXISTING CONTOUR PLAN - SHEET 2				SCALE	1:1000 @ A3	2	
				DRAWN	TB								COUNCIL	HASTINGS DISTRICT COUNCIL		
				CHECKED	BLO								DWG NO	P24-244-00-1002-EW		
				APPROVED	BF											

LEGEND

STAGE BOUNDARIES
PROPOSED BOUNDARIES
EXISTING CONTOURS (0.5m)

NOTES

1. UNDERFILL DRAINAGE IS TO BE INSTALLED AT THE DIRECTION OF THE ENGINEER. IF THE CONTRACTOR ENCOUNTERS SPRINGS OR OTHER SOURCES OF WATER HE IS TO NOTIFY THE ENGINEER.
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2	ISSUED FOR CONSENT	TB	JUNE 2025	DESIGNED	AB
				DRAWN	TB
				CHECKED	BLO
				APPROVED	BF

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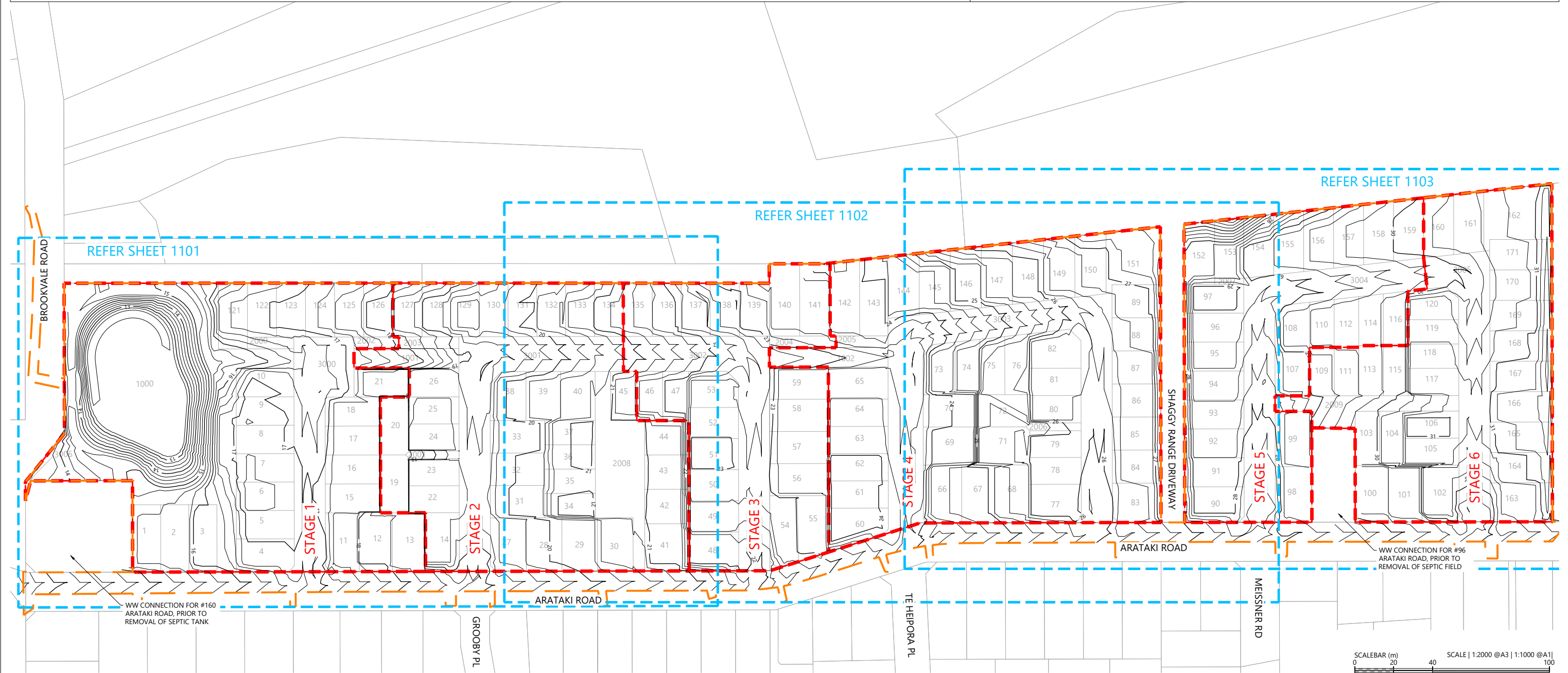


ARATAKI DEVELOPMENT - HAVELOCK NORTH
EXISTING CONTOUR PLAN - SHEET 3

STATUS	ISSUED FOR CONSENT	REV
SCALE	1:1000 @ A3	2
COUNCIL	HASTINGS DISTRICT COUNCIL	
DWG NO	P24-244-00-1003-EW	

- NOTES
- UNDERFILL DRAINAGE IS TO BE INSTALLED AT THE DIRECTION OF THE ENGINEER. IF THE CONTRACTOR ENCOUNTERS SPRINGS OR OTHER SOURCES OF WATER HE IS TO NOTIFY THE ENGINEER.
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- LEGEND
- STAGE BOUNDARIES
- PROPOSED MAJOR CONTOURS (1m)
- PROPOSED MINOR CONTOURS (0.25m)
- EXTENTS OF WORKS



REVISION DETAILS		INT	DATE	SURVEYED	WOODS
1	ISSUED FOR DISCUSSION	TB	APR 2025	DESIGNED	AB
2	ISSUED FOR CONSENT	TB	JUNE 2025	DRAWN	TB
				CHECKED	BLO
				APPROVED	BF



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ARATAKI DEVELOPMENT - HAVELOCK NORTH

DESIGN CONTOUR PLAN



STATUS	ISSUED FOR CONSENT	REV
SCALE	1:2000 @ A3	2
COUNCIL	HASTINGS DISTRICT COUNCIL	
DWG NO	P24-244-00-1100-EW	

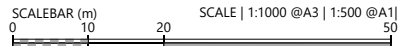
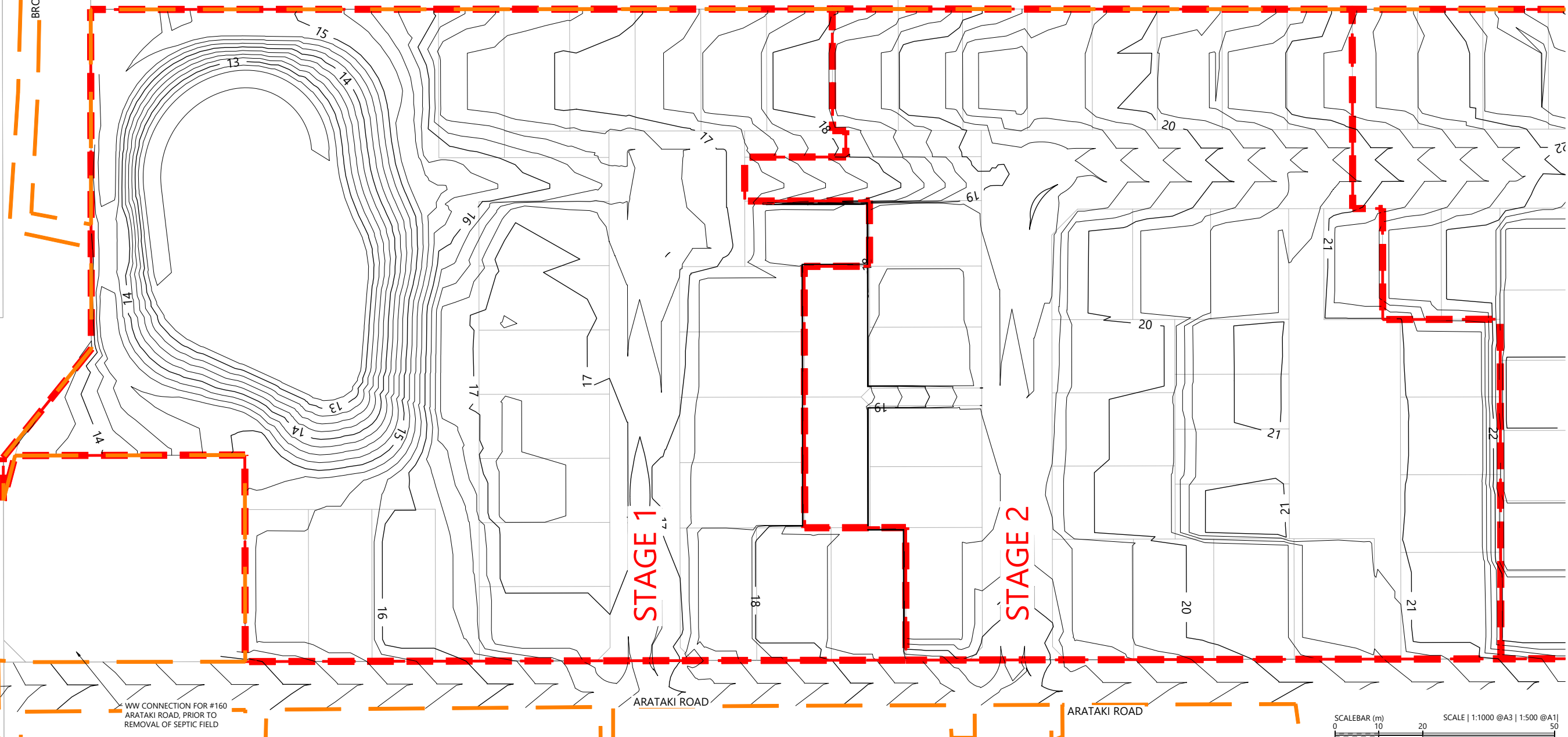
LEGEND

STAGE BOUNDARIES	
PROPOSED MAJOR CONTOURS (1m)	 23
PROPOSED MINOR CONTOURS (0.25m)	
EXTENTS OF WORKS	

NOTES

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BROOKVALE ROAD



REVISION DETAILS		INT	DATE	SURVEYED	WOODS
2	ISSUED FOR CONSENT	TB	JUNE 2025	DESIGNED	AB
				DRAWN	TB
				CHECKED	BLO
				APPROVED	BF



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ARATAKI DEVELOPMENT - HAVELOCK NORTH
DESIGN CONTOUR PLAN - SHEET 1



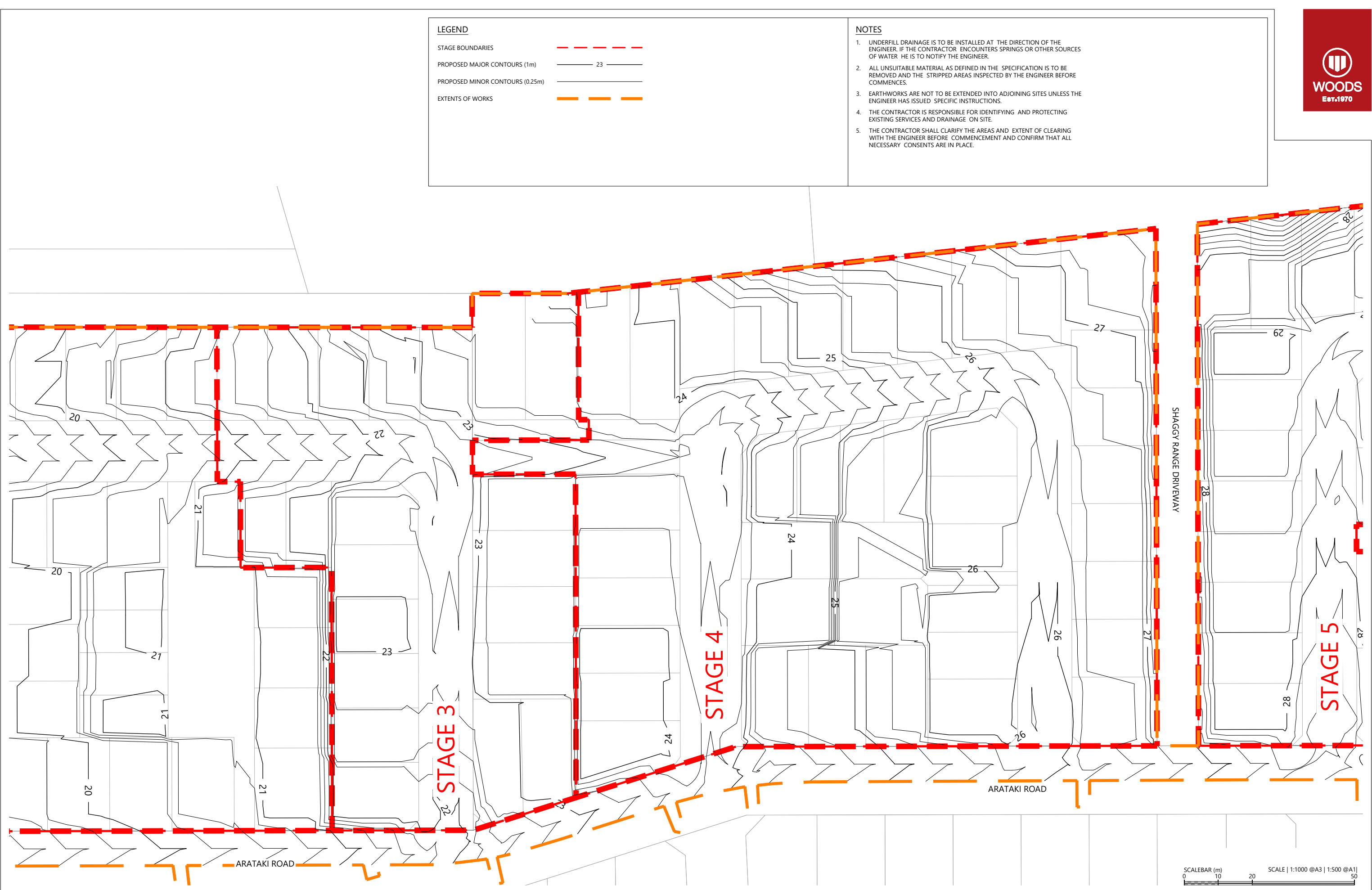
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SCALE	1:1000 @ A3	2
COUNCIL	HASTINGS DISTRICT COUNCIL	
DWG NO	P24-244-00-1101-EW	

LEGEND

STAGE BOUNDARIES	
PROPOSED MAJOR CONTOURS (1m)	23
PROPOSED MINOR CONTOURS (0.25m)	
EXTENTS OF WORKS	

NOTES

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REVISION DETAILS	INT	DATE	SURVEYED	WOODS
2 ISSUED FOR CONSENT	TB	JUNE 2025	DESIGNED	AB
			DRAWN	TB
			CHECKED	BLO
			APPROVED	BF

BUILDING B, LEVEL 1
8 NUGENT ST, GRAFTON,
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ARATAKI DEVELOPMENT - HAVELOCK NORTH
DESIGN CONTOUR PLAN - SHEET 2



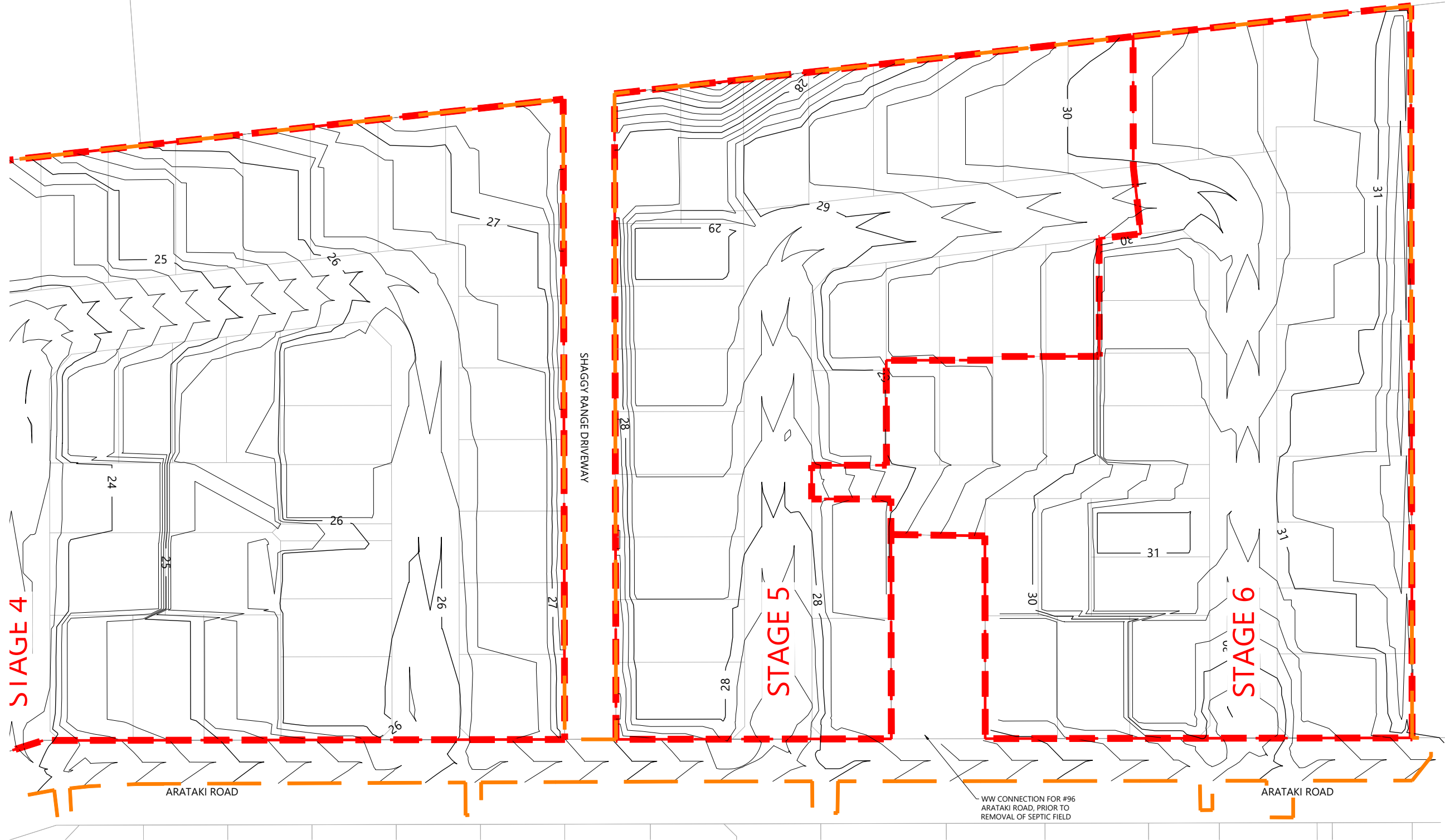
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SCALE	1:1000 @ A3	2
COUNCIL	HASTINGS DISTRICT COUNCIL	
DWG NO	P24-244-00-1102-EW	

LEGEND

STAGE BOUNDARIES	
PROPOSED MAJOR CONTOURS (1m)	23
PROPOSED MINOR CONTOURS (0.25m)	
EXTENTS OF WORKS	

NOTES

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REVISION DETAILS	INT	DATE	SURVEYED	WOODS
2 ISSUED FOR CONSENT	TB	JUNE 2025	DESIGNED	AB
			DRAWN	TB
			CHECKED	BLO
			APPROVED	BF

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8 NUGENT ST, GRAFTON,
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ARATAKI DEVELOPMENT - HAVELOCK NORTH
DESIGN CONTOUR PLAN - SHEET 3



STATUS	ISSUED FOR CONSENT	REV
SCALE	1:1000 @ A3	2
COUNCIL	HASTINGS DISTRICT COUNCIL	
DWG NO	P24-244-00-1103-EW	

NOTES

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LEGEND

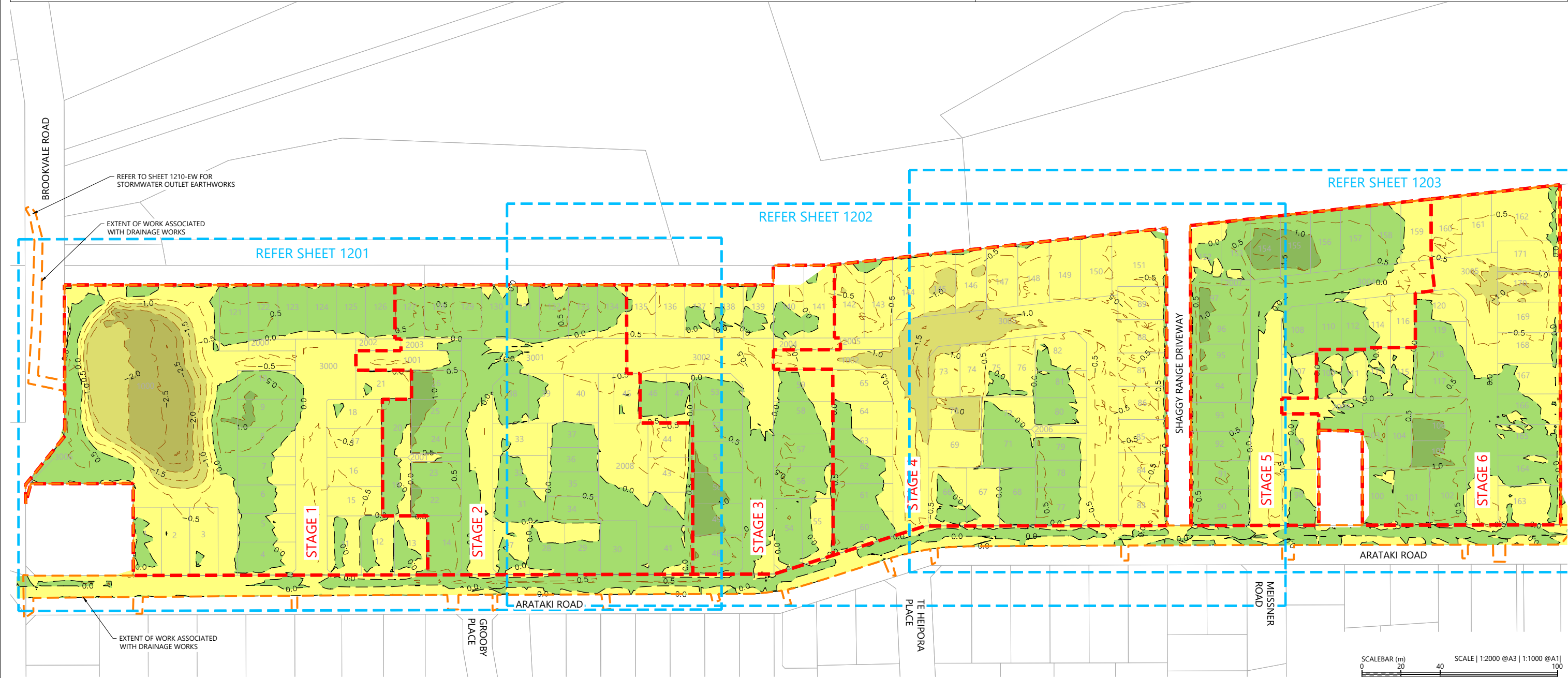
STAGE BOUNDARIES	
EXTENTS OF WORKS	
AREA OF FILL	
AREA OF CUT	
CUT/FILL CONTOUR (0.5m)	
CUT/FILL ZERO LINE	

VOLUMES

CUT / FILL VOLUMES
CUT: 35,400 m³,
FILL: 16,400 m³,
BALANCE: 19,000 m³, EXCESS CUT TO BE REMOVED FROM SITE
NOTE:
CUT / FILL VOLUMES EXCLUDE TOPSOIL.
EXCLUDES BULKING / COMPACTION FACTORS.

TOPSOIL VOLUMES

TOPSOIL STRIP: 24,500 m³, ASSUMED 200mm DEPTH
TOPSOIL PLACE: 12,500 m³,
NOTE:
TOPSOIL STRIP IS ASSUMED AS 200mm DEPTH OVER THE SITE.
TOPSOIL PLACE IS ASSUMED AS 100mm DEPTH OVER LOTS,
300mm DEPTH OVER GARDEN AREAS, AND 150mm DEPTH OVER BERM.



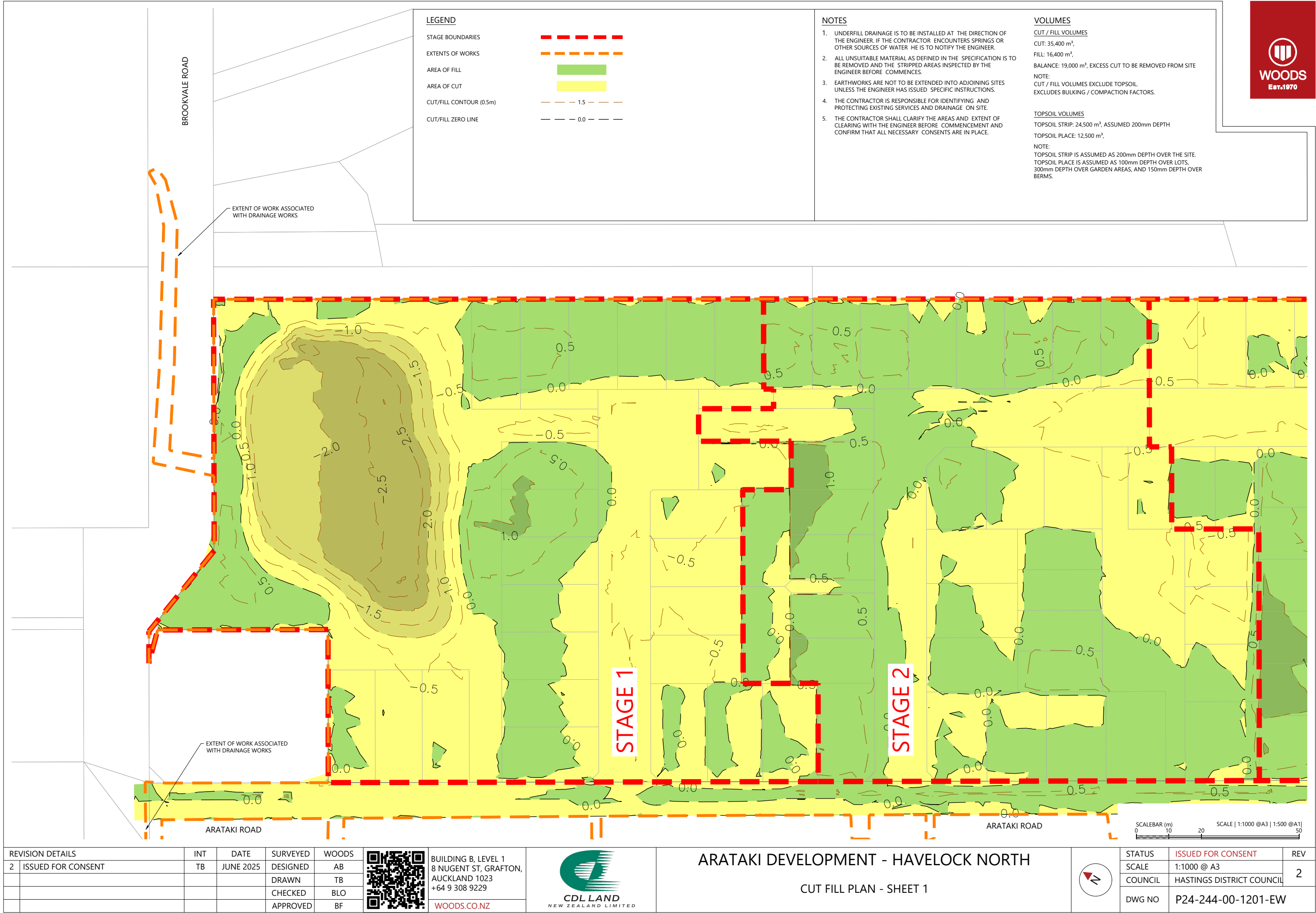
REVISION DETAILS				
1	ISSUED FOR DISCUSSION	TB	APR 2025	DESIGNED AB
2	ISSUED FOR CONSENT	TB	JUNE 2025	DRAWN TB
				CHECKED BLO
				APPROVED BF

BUILDING B, LEVEL 1
8 NUGENT ST, GRAFTON,
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ARATAKI DEVELOPMENT - HAVELOCK NORTH
CUT FILL PLAN

STATUS	ISSUED FOR CONSENT	REV
SCALE	1:2000 @ A3	2
COUNCIL	HASTINGS DISTRICT COUNCIL	
DWG NO	P24-244-00-1200-EW	



LEGEND

STAGE BOUNDARIES	
EXTENTS OF WORKS	
AREA OF FILL	
AREA OF CUT	
CUT/FILL CONTOUR (0.5m)	
CUT/FILL ZERO LINE	

NOTES

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VOLUMES

CUT / FILL VOLUMES
CUT: 35,400 m³,
FILL: 16,400 m³,
BALANCE: 19,000 m³, EXCESS CUT TO BE REMOVED FROM SITE
NOTE:
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TOPSOIL VOLUMES

TOPSOIL STRIP: 24,500 m³, ASSUMED 200mm DEPTH
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NOTE:
TOPSOIL STRIP IS ASSUMED AS 200mm DEPTH OVER THE SITE.
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300mm DEPTH OVER GARDEN AREAS, AND 150mm DEPTH OVER BERMS.

REVISION DETAILS		INT	DATE	SURVEYED	WOODS
2	ISSUED FOR CONSENT	TB	JUNE 2025	DESIGNED	AB
				DRAWN	TB
				CHECKED	BLO
				APPROVED	BF



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8 NUGENT ST, GRAFTON,
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ARATAKI DEVELOPMENT - HAVELOCK NORTH

CUT FILL PLAN - SHEET 1



STATUS	ISSUED FOR CONSENT	REV
SCALE	1:1000 @ A3	2
COUNCIL	HASTINGS DISTRICT COUNCIL	
DWG NO	P24-244-00-1201-EW	

LEGEND

STAGE BOUNDARIES	
EXTENTS OF WORKS	
AREA OF FILL	
AREA OF CUT	
CUT/FILL CONTOUR (0.5m)	
CUT/FILL ZERO LINE	

NOTES

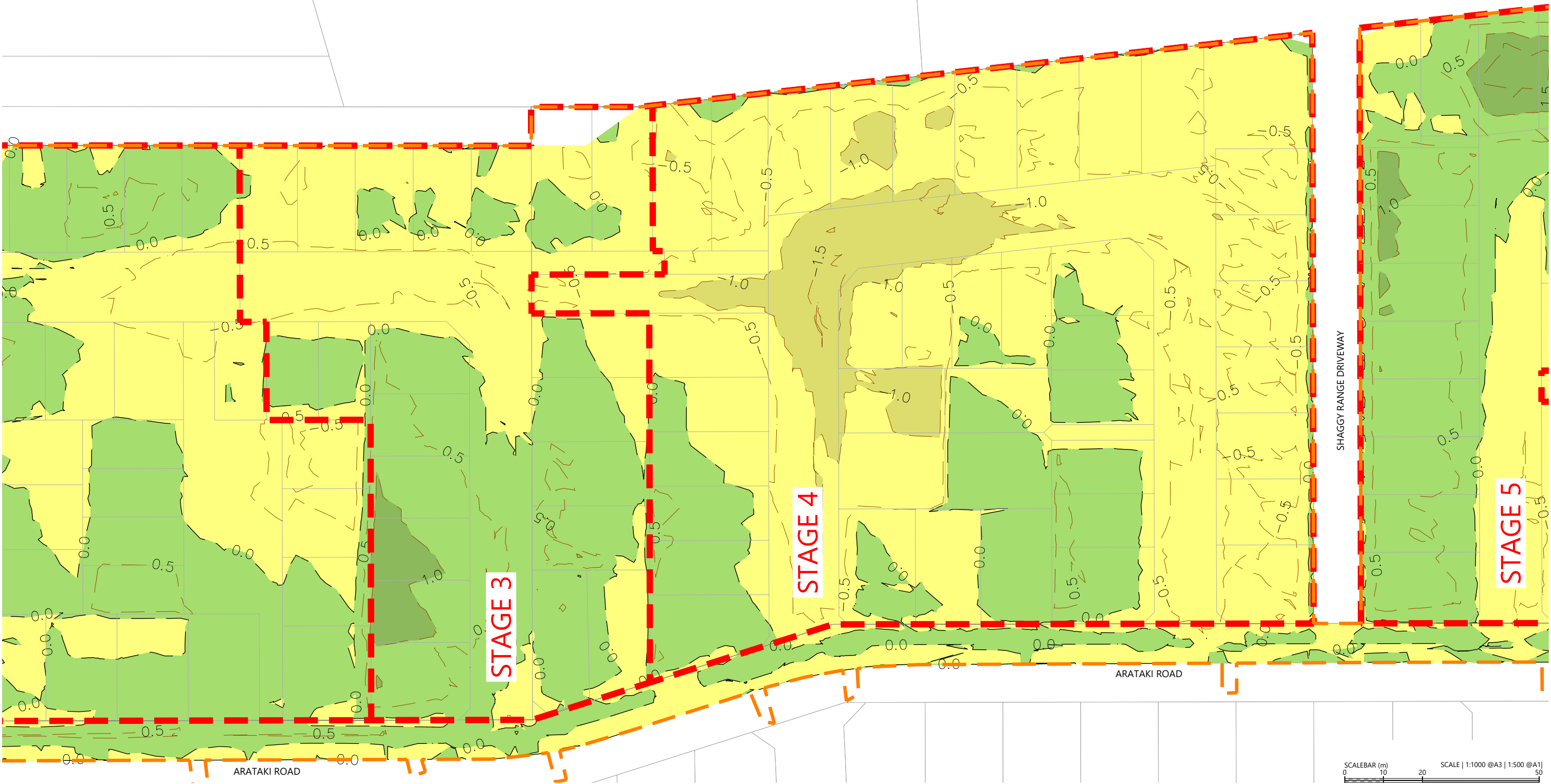
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REVISION DETAILS		INT	DATE	SURVEYED	WOODS
2	ISSUED FOR CONSENT	TB	JUNE 2025	DESIGNED	AB
				DRAWN	TB
				CHECKED	BLO
				APPROVED	BF



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ARATAKI DEVELOPMENT - HAVELOCK NORTH

CUT FILL PLAN - SHEET 2



STATUS	ISSUED FOR CONSENT	REV
SCALE	1:1000 @ A3	2
COUNCIL	HASTINGS DISTRICT COUNCIL	
DWG NO	P24-244-00-1202-EW	

LEGEND

STAGE BOUNDARIES	
EXTENTS OF WORKS	
AREA OF FILL	
AREA OF CUT	
CUT/FILL CONTOUR (0.5m)	
CUT/FILL ZERO LINE	

NOTES

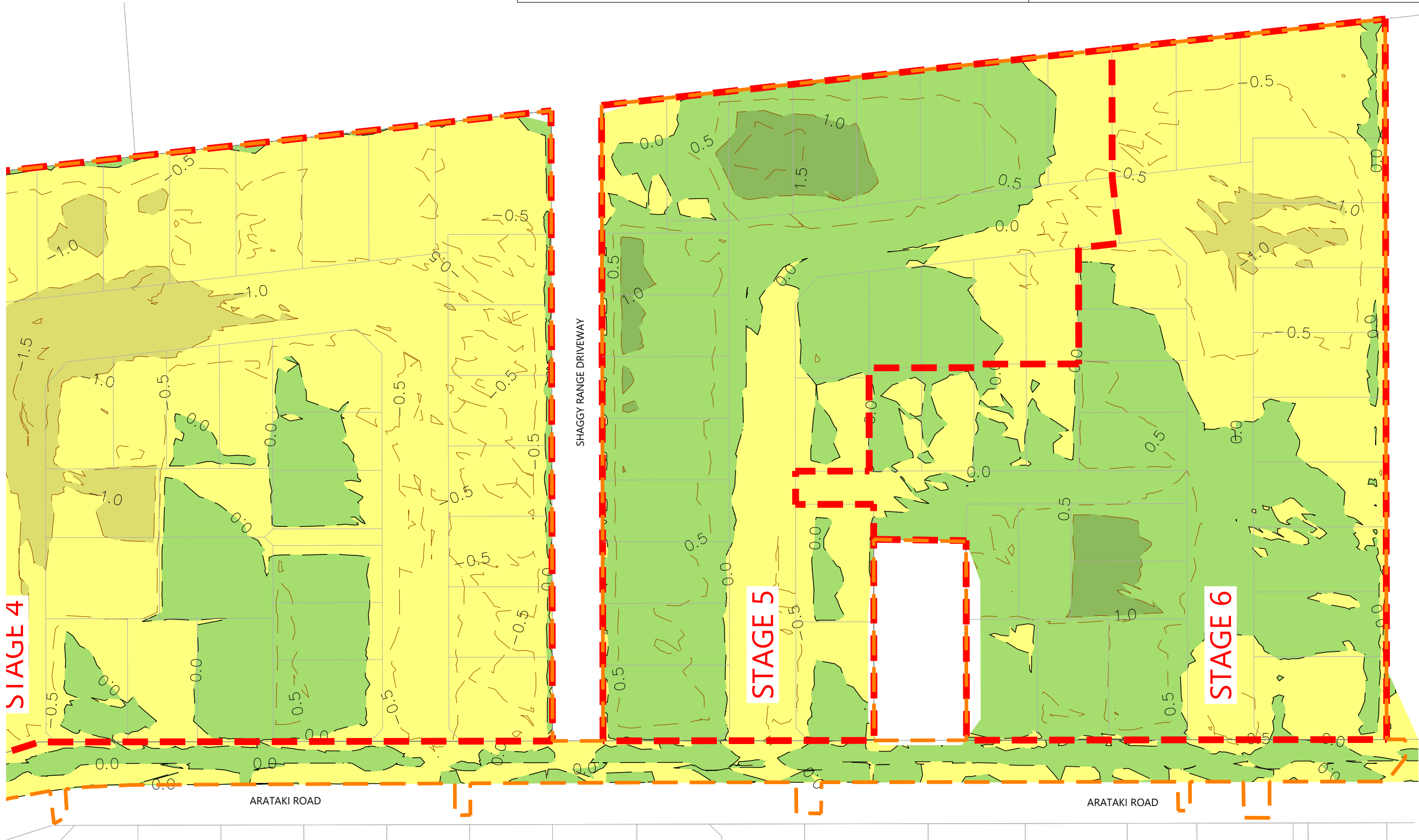
1. UNDERFILL DRAINAGE IS TO BE INSTALLED AT THE DIRECTION OF THE ENGINEER. IF THE CONTRACTOR ENCOUNTERS SPRINGS OR OTHER SOURCES OF WATER HE IS TO NOTIFY THE ENGINEER.
2. ALL UNSUITABLE MATERIAL AS DEFINED IN THE SPECIFICATION IS TO BE REMOVED AND THE STRIPPED AREAS INSPECTED BY THE ENGINEER BEFORE COMMENCES.
3. EARTHWORKS ARE NOT TO BE EXTENDED INTO ADJOINING SITES UNLESS THE ENGINEER HAS ISSUED SPECIFIC INSTRUCTIONS.
4. THE CONTRACTOR IS RESPONSIBLE FOR IDENTIFYING AND PROTECTING EXISTING SERVICES AND DRAINAGE ON SITE.
5. THE CONTRACTOR SHALL CLARIFY THE AREAS AND EXTENT OF CLEARING WITH THE ENGINEER BEFORE COMMENCEMENT AND CONFIRM THAT ALL NECESSARY CONSENTS ARE IN PLACE.

VOLUMES

CUT / FILL VOLUMES
CUT: 35,400 m³,
FILL: 16,400 m³,
BALANCE: 19,000 m³, EXCESS CUT TO BE REMOVED FROM SITE
NOTE:
CUT / FILL VOLUMES EXCLUDE TOPSOIL.
EXCLUDES BULKING / COMPACTION FACTORS.

TOPSOIL VOLUMES

TOPSOIL STRIP: 24,500 m³, ASSUMED 200mm DEPTH
TOPSOIL PLACE: 12,500 m³,
NOTE:
TOPSOIL STRIP IS ASSUMED AS 200mm DEPTH OVER THE SITE.
TOPSOIL PLACE IS ASSUMED AS 100mm DEPTH OVER LOTS, 300mm DEPTH OVER GARDEN AREAS, AND 150mm DEPTH OVER BERMS.



REVISION DETAILS		INT	DATE	SURVEYED	WOODS
2	ISSUED FOR CONSENT	TB	JUNE 2025	DESIGNED	AB
				DRAWN	TB
				CHECKED	BLO
				APPROVED	BF



BUILDING B, LEVEL 1
8 NUGENT ST, GRAFTON,
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WOODS.CO.NZ



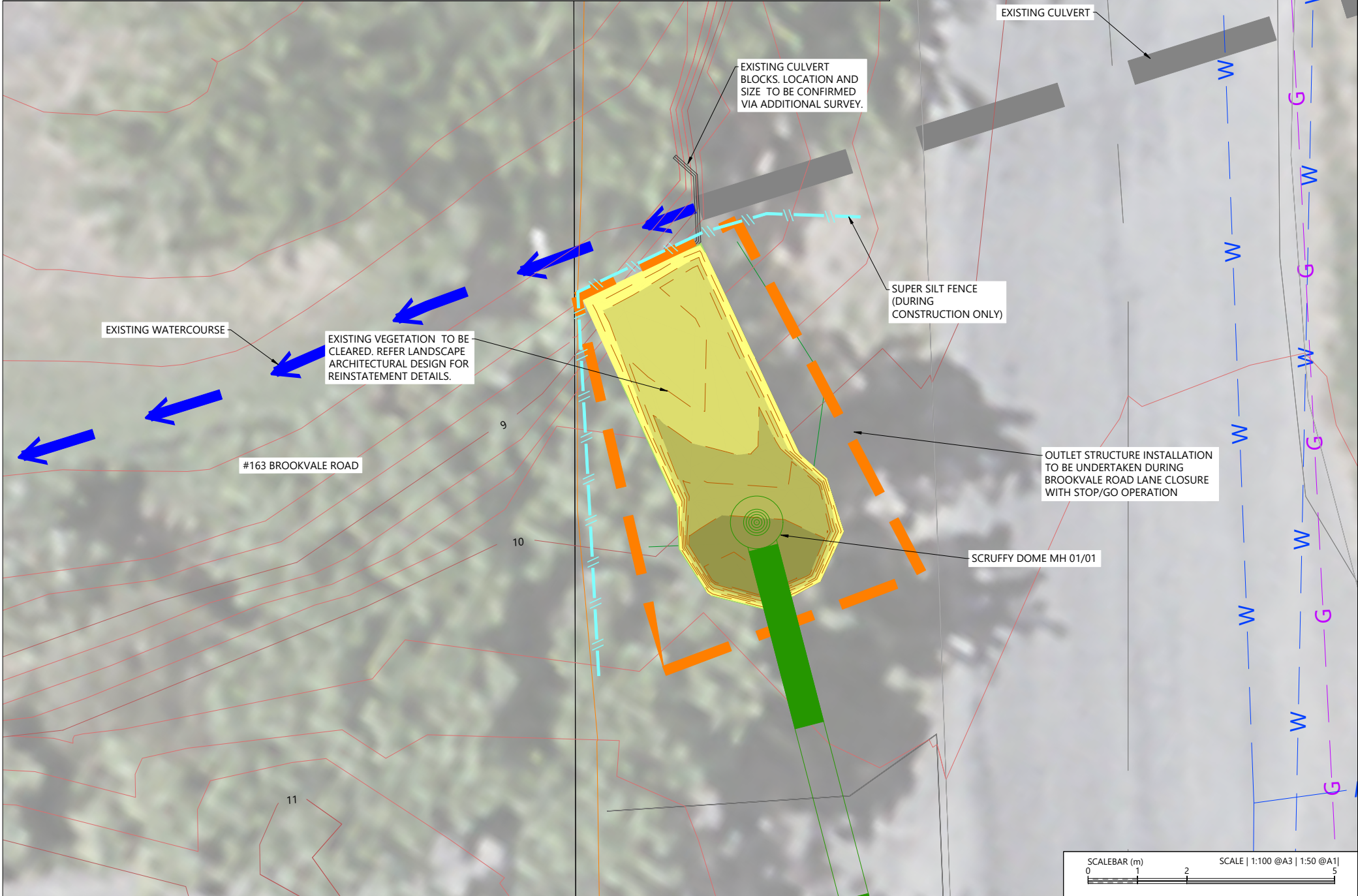
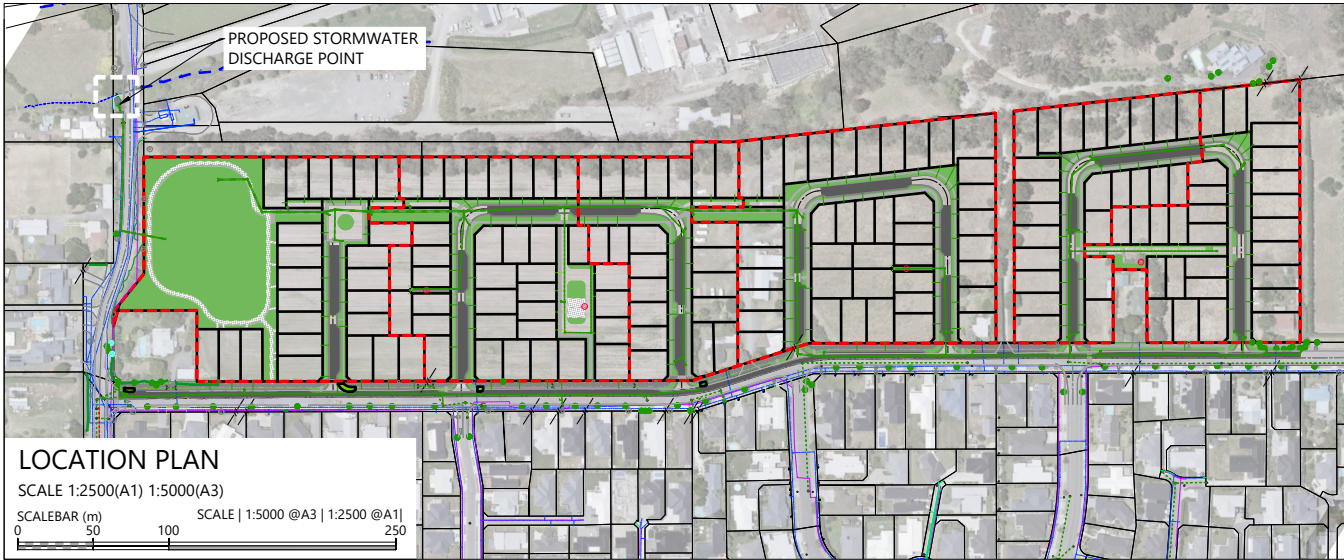
ARATAKI DEVELOPMENT - HAVELOCK NORTH

CUT FILL PLAN - SHEET 3



STATUS	ISSUED FOR CONSENT	REV
SCALE	1:1000 @ A3	2
COUNCIL	HASTINGS DISTRICT COUNCIL	
DWG NO	P24-244-00-1203-EW	





- NOTES**
1. ALL WORKS & MATERIALS TO COMPLY WITH HASTINGS DISTRICT COUNCIL STANDARDS.
 2. FOR PIPE BEDDING DETAILS REFER TO STANDARD DETAIL SHEETS UNLESS OTHERWISE NOTED ON THE DRAINAGE LONG SECTIONS IN WHICH CASE SUCH NOTES TAKE PRECEDENCE.
 3. CONCRETE PIPES CLASSES ARE NOTED ON THE DRAINAGE LONG SECTIONS. ALL SUMP LEADS TO BE RCRRJ CLASS 4.
 4. ALL PIPE CROSSINGS UNDER ROADS TO BE HARDFILL BACKFILLED.
 5. ALL SW LOT CONNECTIONS TO BE 150MMØ. RAMPED RISERS ARE TO BE EXTENDED & CAPPED OFF WITHIN 1.0M OF THE FINISHED GROUND SURFACE.
 6. SW LOT CONNECTIONS ARE VIA KERB OUTLETS UNLESS OTHERWISE STATED. KERB OUTLETS TO FOLLOW HASTINGS DISTRICT COUNCIL ENGINEERING CODE OF PRACTICE STANDARD DRAWINGS WS 105 AND WS 106.
 7. ALL MANHOLES TO BE 1050MMØ UNLESS OTHERWISE NOTED ON THE DRAINAGE LONG SECTION IN WHICH CASE SUCH NOTES SHALL TAKE PRECEDENCE.
 8. THE CONTRACTOR IS TO PEG MANHOLES & CHECK FINISHED LEVELS (MH LID LEVELS) PRIOR TO ORDERING MANHOLES.
 9. ALL MANHOLE LIDS IN CYCLEWAYS AND SHARED PATHS MUST HAVE A CYCLIST FRIENDLY COVER.
 10. PIPE GRADES ON THE LONG SECTIONS ARE CALCULATED FROM MANHOLE SIDE TO MANHOLE SIDE. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT LASER LEVELS ARE SET TO COMPENSATE FOR THIS.

- LEGEND**
- PROPOSED STORMWATER LINE AND PIT
- EXISTING STORMWATER INLET/OUTLET
- EXISTING FENCE
- EXISTING VEGETATION EDGE
- EXISTING WATERMAIN
- EXISTING GAS
- EXISTING CONTOURS (1m)
- EXISTING MINOR CONTOURS (0.25m)
- EXTENTS OF WORKS
- CUT/FILL CONTOUR (0.25m)
- CUT/FILL ZERO LINE
- CUT > 1.5m
- CUT 1.5m - 1.0m
- CUT 1.0m - 0.5m
- CUT 0.5m - 0.0m
- FILL 0.0m - 0.5m

VOLUMES

CUT / FILL VOLUMES

CUT: 15 m³

FILL: 0

BALANCE: 15 m³, EXCESS CUT TO BE REMOVED FROM SITE

MAX CUT: 1.8m

NOTE:

CUT / FILL VOLUMES EXCLUDE TOPSOIL.

EXCLUDES BULKING / COMPACTION FACTORS.

TOPSOIL VOLUMES

TOPSOIL STRIP: 4m³, ASSUMED 200mm DEPTH



REVISION DETAILS		INT	DATE	SURVEYED	WOODS
1	ISSUED FOR INFORMATION	AS	APR 2025	DESIGNED	AS
2	ISSUED FOR CONSENT	AS	JUN 2025	DRAWN	AS
				CHECKED	BLO
				APPROVED	BF

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8 NUGENT ST, GRAFTON,
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ARATAKI DEVELOPMENT - HAVELOCK NORTH

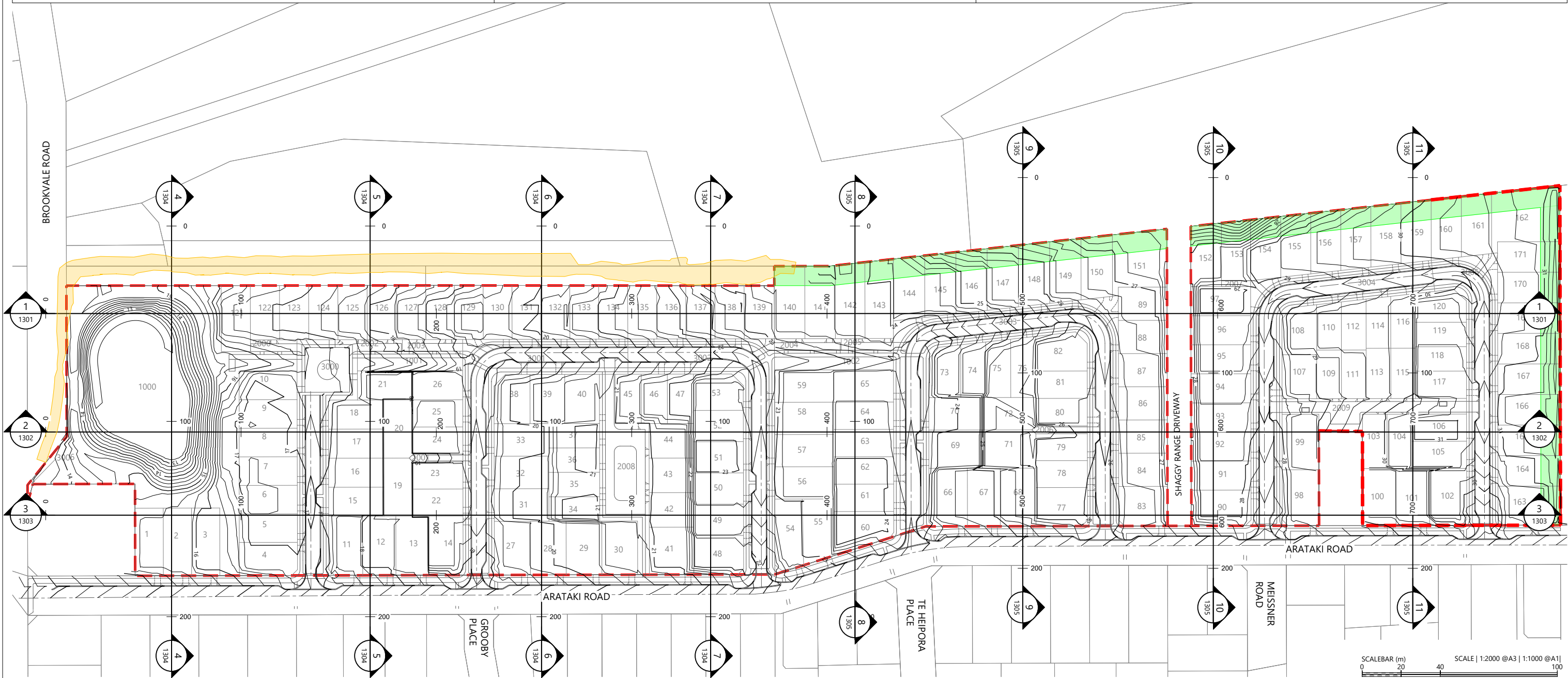
STORMWATER OUTLET EARTHWORKS PLAN



STATUS	ISSUED FOR CONSENT	REV
SCALE	1:100 (A3)	2
COUNCIL	HASTINGS DISTRICT COUNCIL	
DWG NO	P24-244-00-1210-DR	

LEGEND

- PROPOSED LOT BOUNDARY
DEVELOPMENT BOUNDARIES
DESIGN CONTOURS
NO BUILD ZONE
GEOTECHNICAL EXCLUSION ZONE/
BANK 1:2.5 OFFSET FROM BASE



REVISION DETAILS	
1	ISSUED FOR DISCUSSION
2	ISSUED FOR CONSENT

INT	DATE	SURVEYED	WOODS
TB	APR 2025	DESIGNED	AB
TB	JUNE 2025	DRAWN	TB
		CHECKED	BLO
		APPROVED	BF



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ARATAKI DEVELOPMENT - HAVELOCK NORTH
EARTHWORKS SECTIONS PLAN

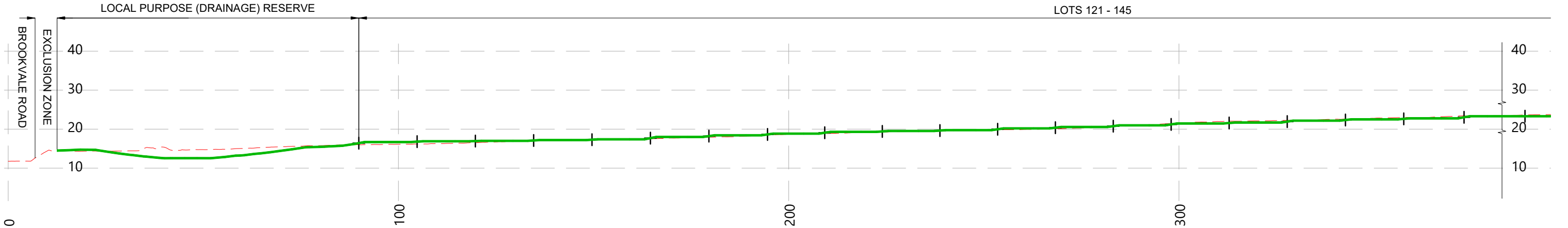


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COUNCIL	HASTINGS DISTRICT COUNCIL	
DWG NO	P24-244-00-1300-RD	



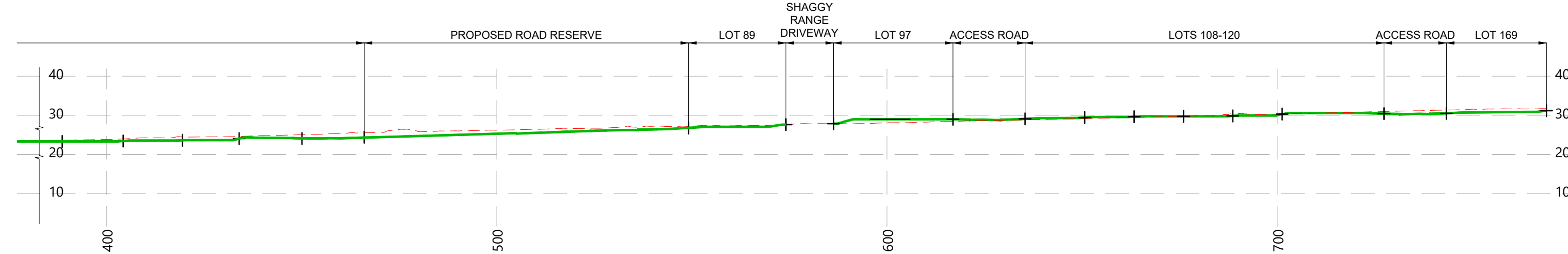
LEGEND

- EXISTING SURFACE
- PROPOSED GROUND
- BOUNDARY LOCATION



1
1300

PROPOSED SECTION 1
SCALE 1:2000 @ A3



1
1300

PROPOSED SECTION 1
SCALE 1:2000 @ A3

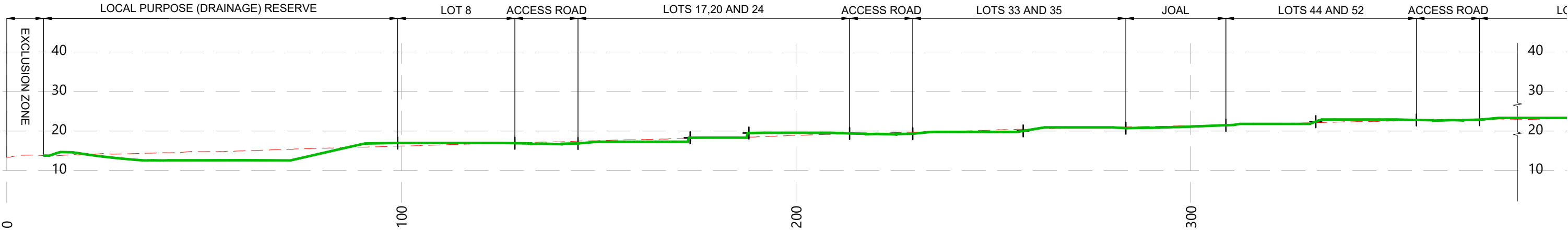


REVISION DETAILS						BUILDING B, LEVEL 1 8 NUGENT ST, GRAFTON, AUCKLAND 1023 +64 9 308 9229 WOODS.CO.NZ		ARATAKI DEVELOPMENT - HAVELOCK NORTH EARTHWORKS SECTIONS - SHEET 1				
1	ISSUED FOR DISCUSSION	TB	APR 2025	DESIGNED	AB					STATUS	ISSUED FOR CONSENT	REV
2	ISSUED FOR CONSENT	TB	JUNE 2025	DRAWN	TB					SCALE	1:1000 @ A3	2
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				APPROVED	BF					DWG NO	P24-244-00-1301-RD	

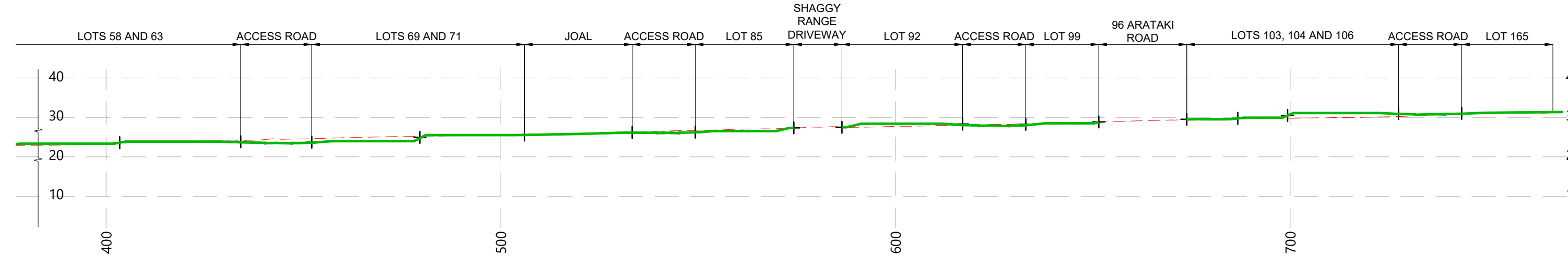


LEGEND

- EXISTING SURFACE
- PROPOSED GROUND
- BOUNDARY LOCATION



2 PROPOSED SECTION 2
1300 SCALE 1:2000 @ A3



2 PROPOSED SECTION 2
1300 SCALE 1:2000 @ A3

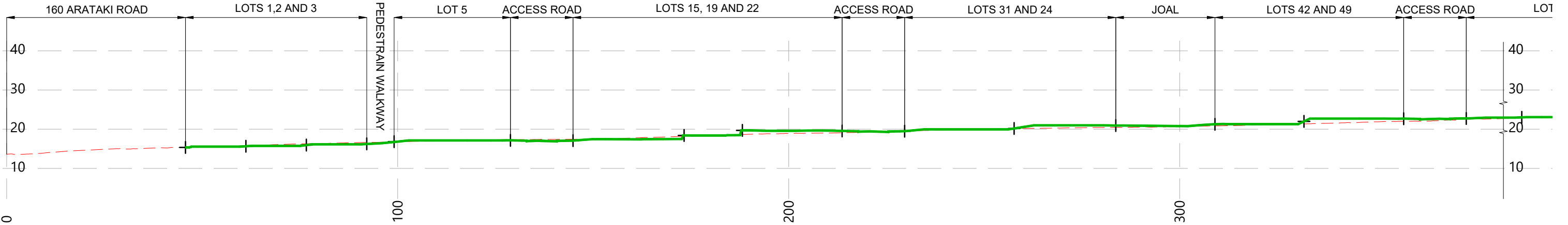


REVISION DETAILS						BUILDING B, LEVEL 1 8 NUGENT ST, GRAFTON, AUCKLAND 1023 +64 9 308 9229 WOODS.CO.NZ		ARATAKI DEVELOPMENT - HAVELOCK NORTH EARTHWORKS SECTIONS - SHEET 2				
1	ISSUED FOR DISCUSSION	TB	APR 2025	DESIGNED	AB					STATUS	ISSUED FOR CONSENT	REV
2	ISSUED FOR CONSENT	TB	JUNE 2025	DRAWN	TB					SCALE	1:1000 @ A3	2
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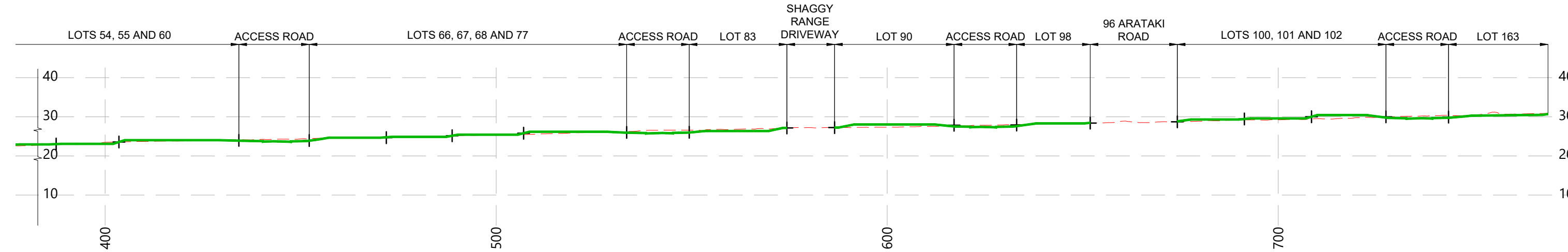
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LEGEND

- EXISTING SURFACE
- PROPOSED GROUND
- BOUNDARY LOCATION



3 PROPOSED SECTION 3
1300 SCALE 1:2000 @ A3



3 PROPOSED SECTION 3
1300 SCALE 1:2000 @ A3



REVISION DETAILS				
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2	ISSUED FOR CONSENT	TB	JUNE 2025	DRAWN TB
				CHECKED BLO
				APPROVED BF

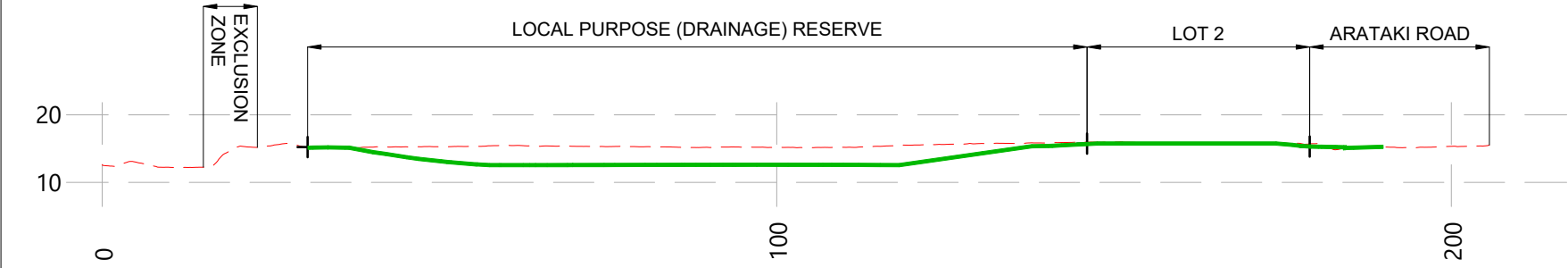


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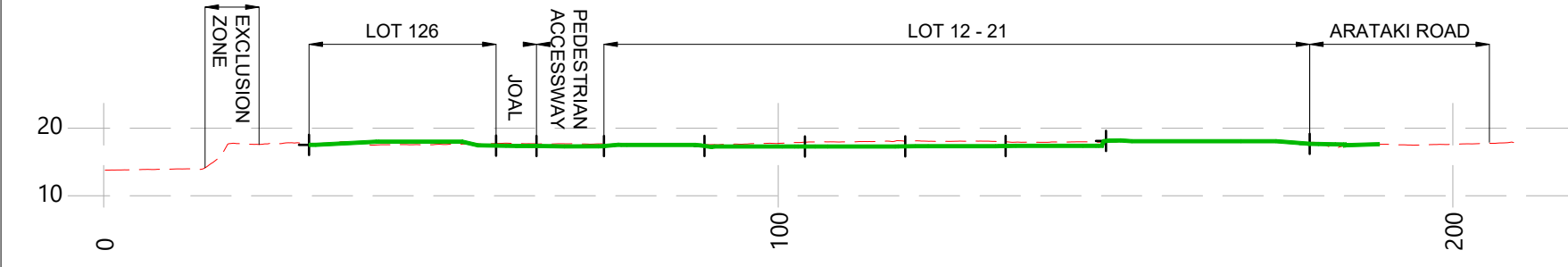


ARATAKI DEVELOPMENT - HAVELOCK NORTH
EARTHWORKS SECTIONS - SHEET 3

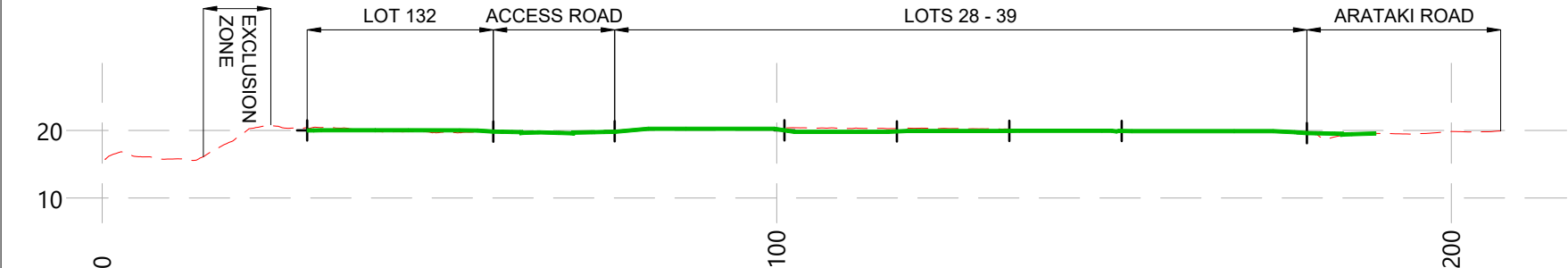
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SCALE	1:1000 @ A3	
COUNCIL	HASTINGS DISTRICT COUNCIL	
DWG NO	P24-244-00-1303-RD	



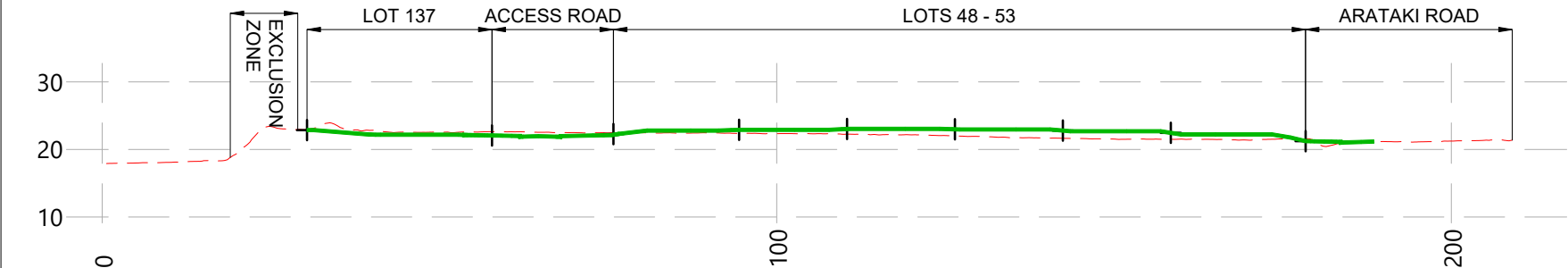
4 PROPOSED SECTION 4
1300 SCALE 1:2000 @ A3



5 PROPOSED SECTION 5
1300 SCALE 1:2000 @ A3



6 PROPOSED SECTION 6
1300 SCALE 1:2000 @ A3



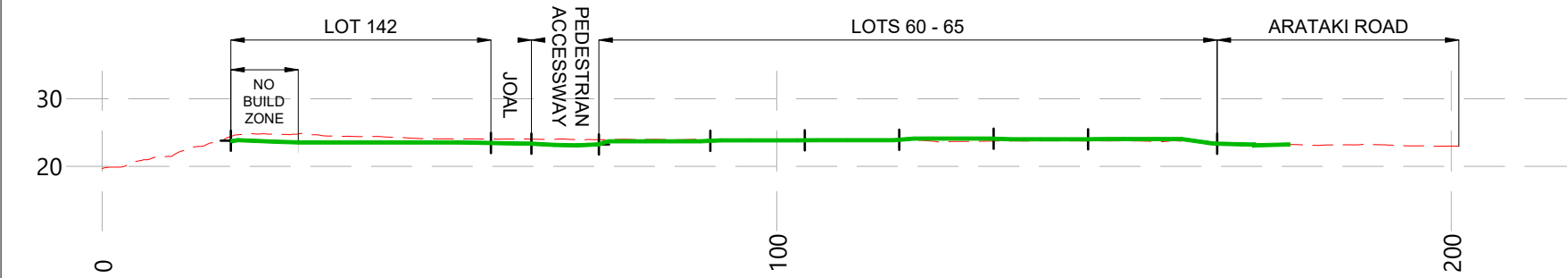
7 PROPOSED SECTION 7
1300 SCALE 1:2000 @ A3

LEGEND

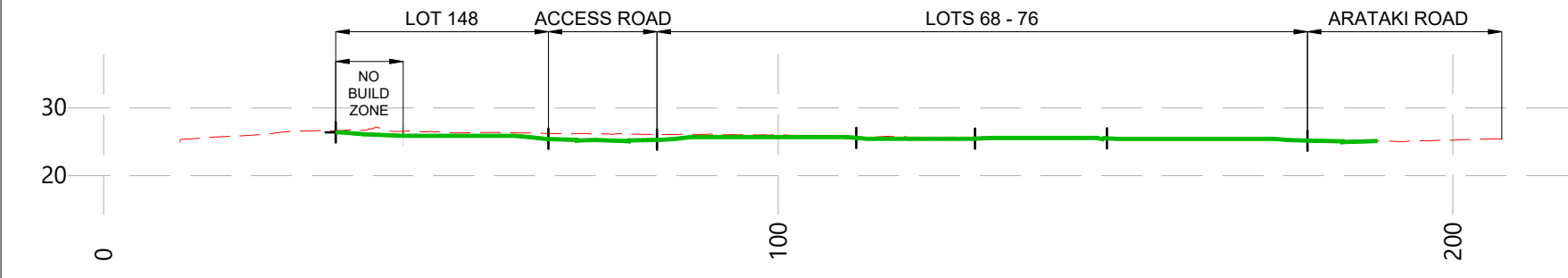
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- PROPOSED GROUND (solid green line)
- BOUNDARY LOCATION (+)

REVISION DETAILS						BUILDING B, LEVEL 1 8 NUGENT ST, GRAFTON, AUCKLAND 1023 +64 9 308 9229 WOODS.CO.NZ		ARATAKI DEVELOPMENT - HAVELOCK NORTH EARTHWORKS SECTIONS - SHEET 4				
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2	ISSUED FOR CONSENT	TB	JUNE 2025	DRAWN	TB					SCALE	1:1000 @ A3	2
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				APPROVED	BF					DWG NO	P24-244-00-1304-RD	

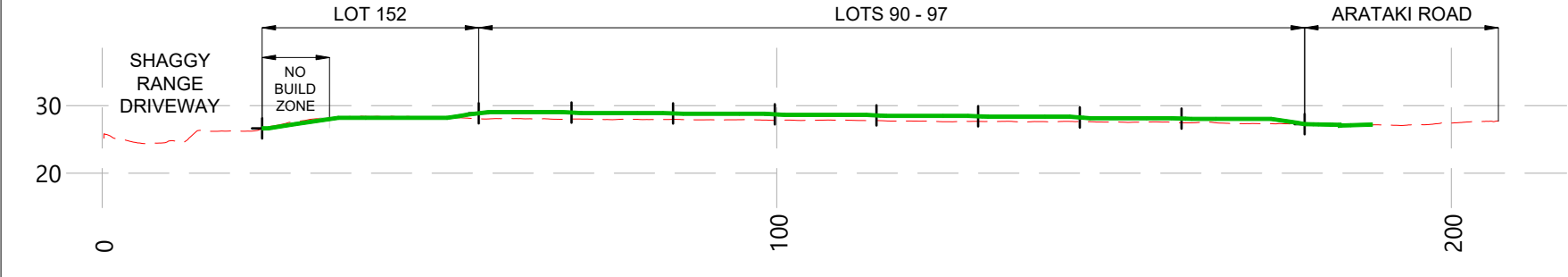




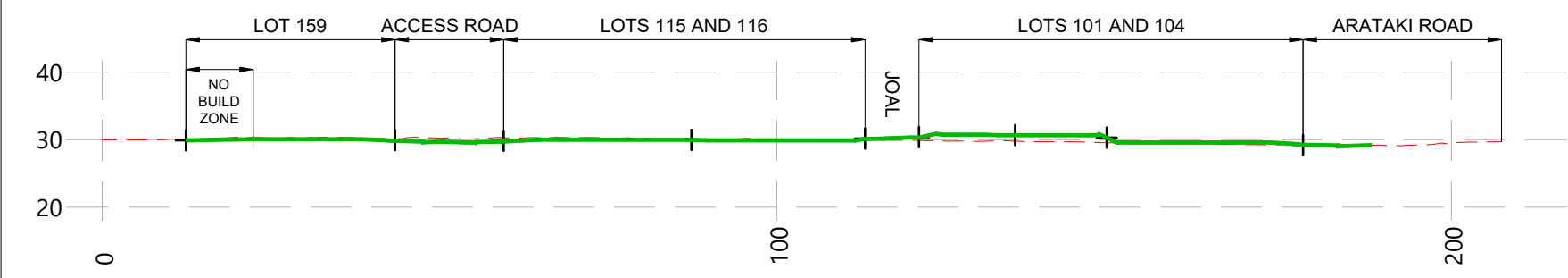
8 PROPOSED SECTION 8
SCALE 1:2000 @ A3



9 PROPOSED SECTION 9
SCALE 1:2000 @ A3



10 PROPOSED SECTION 10
SCALE 1:2000 @ A3



11 PROPOSED SECTION 11
SCALE 1:2000 @ A3

LEGEND

- EXISTING SURFACE (dashed red line)
- PROPOSED GROUND (solid green line)
- BOUNDARY LOCATION (+)

REVISION DETAILS						BUILDING B, LEVEL 1 8 NUGENT ST, GRAFTON, AUCKLAND 1023 +64 9 308 9229 WOODS.CO.NZ		ARATAKI DEVELOPMENT - HAVELOCK NORTH EARTHWORKS SECTIONS - SHEET 5				
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2	ISSUED FOR CONSENT	TB	JUNE 2025	DRAWN	TB					SCALE	1:1000 @ A3	2
				CHECKED	BLO					COUNCIL	HASTINGS DISTRICT COUNCIL	
				APPROVED	BF					DWG NO	P24-244-00-1305-RD	

LEGEND

EXTENTS OF WORKS	
BOUNDARIES	
PROPOSED CONTOURS (0.25m)	
RETAINING WALL HEIGHT UNDER 1.0m	
RETAINING WALL HEIGHT 1.0m-1.5m	
RETAINING WALL HEIGHT 1.5m-2.0m	

NOTES

1. RETAINING WALLS SHOWN ON THIS PLAN ARE SUBJECT TO DETAILED DESIGN AND BUILDING CONSENT APPROVAL.



REVISION DETAILS	INT	DATE	SURVEYED	WOODS
2 ISSUED FOR CONSENT	TB	JUNE 2025	DESIGNED	AB
			DRAWN	TB
			CHECKED	BLO
			APPROVED	BF



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ARATAKI DEVELOPMENT - HAVELOCK NORTH

RETAINING WALL LAYOUT



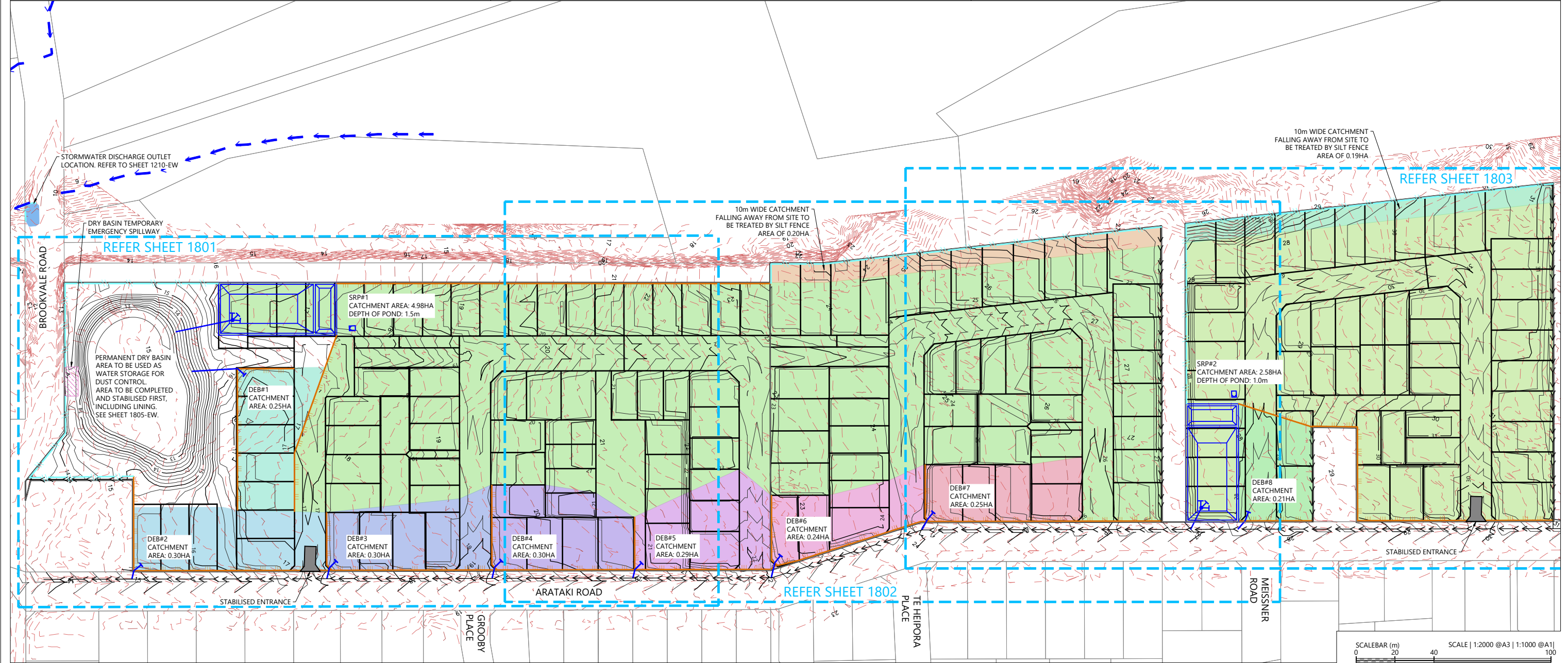
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SCALE	1:2000 @ A3	2
COUNCIL	HASTINGS DISTRICT COUNCIL	
DWG NO	P24-244-00-1400-EW	

LEGEND

EXISTING MAJOR CONTOURS (1m INTERVAL)	
EXISTING MINOR CONTOURS (0.5m INTERVAL)	
PROPOSED MAJOR CONTOURS (0.5m INTERVAL)	
PROPOSED MINOR CONTOURS (0.25m INTERVAL)	
WATERCOURSE	
SEDIMENT RETENTION POND	
DECANT EARTH BUND OUTLET	
CLEAN WATER DIVERSION DRAIN	
EARTH BUND	
PROPOSED RETAINING WALL	
SUPER SILT FENCE	

NOTES

- ALL EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE CONSTRUCTED IN ACCORDANCE WITH THE HAWKE'S BAY REGIONAL COUNCIL WATERWAY GUIDELINES EROSION AND SEDIMENT CONTROL DOCUMENT APRIL 2009.
- BEFORE COMMENCING WORKS THE CONTRACTOR SHALL ENSURE THAT HE HAS A COPY OF THE RESOURCE CONSENT FROM THE ENGINEER.
- ANY MODIFICATIONS TO THE CONSENTED EROSION & SEDIMENT CONTROL DRAWING MUST BE APPROVED BY THE ENGINEER PRIOR TO CONSTRUCTION.
- THE EXTENT OF AREAS TO BE WORKED ARE TO BE CLEARLY IDENTIFIED PRIOR TO STRIPPING AND ALL EROSION & SEDIMENT CONTROL MEASURES IN PLACE AND APPROVED BEFORE EARTHWORKS COMMENCE.
- THE FOREBAYS AND MAIN BODY OF SEDIMENT RETENTION PONDS ARE TO BE LINED WITH AN HDPE LINER APPROVED BY THE ENGINEER.



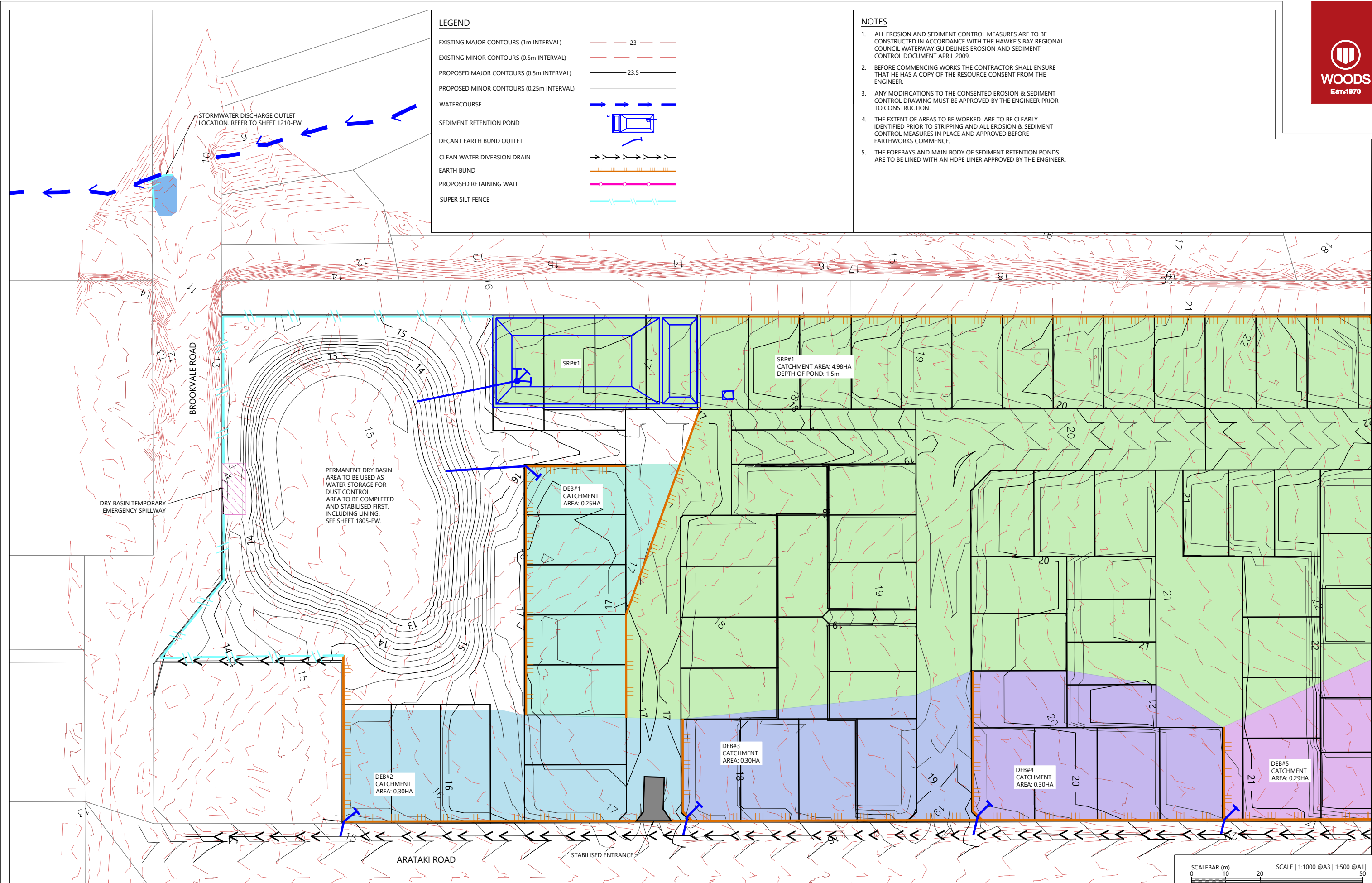
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1 ISSUED FOR DISCUSSION	BM	APR 2025	DESIGNED	BLO
2 ISSUED FOR CONSENT	TB	JUNE 2025	DRAWN	BM
			CHECKED	BLO
			APPROVED	BF

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ARATAKI DEVELOPMENT - HAVELOCK NORTH
SEDIMENT AND EROSION CONTROL PLAN OVERALL

STATUS	ISSUED FOR CONSENT	REV
SCALE	1:2000 @ A3	2
COUNCIL	HASTINGS DISTRICT COUNCIL	
DWG NO	P24-244-00-1800-EW	



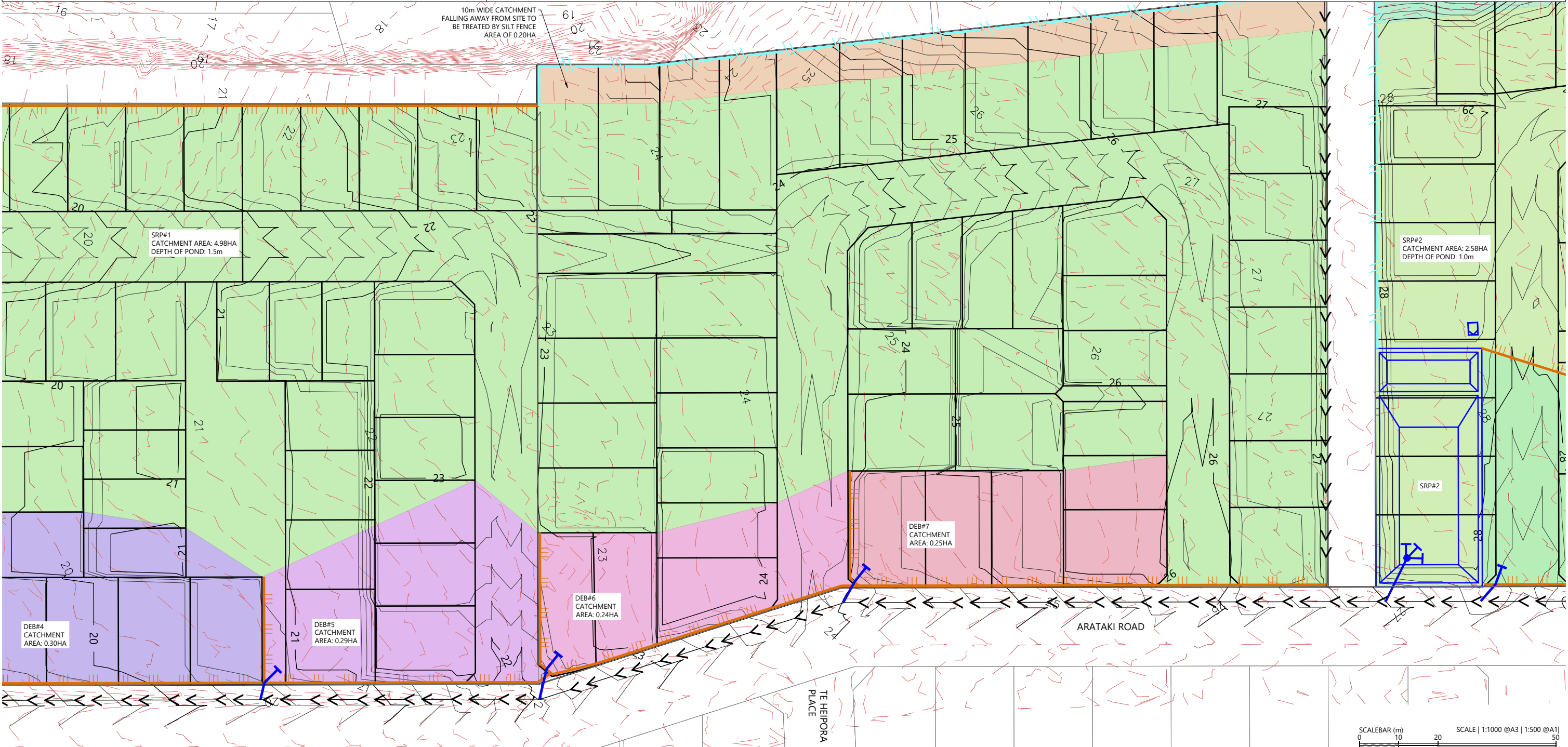
REVISION DETAILS		INT	DATE	SURVEYED	WOODS		BUILDING B, LEVEL 1 8 NUGENT ST, GRAFTON, AUCKLAND 1023 +64 9 308 9229 WOODS.CO.NZ		ARATAKI DEVELOPMENT - HAVELOCK NORTH					STATUS	ISSUED FOR CONSENT	REV
2	ISSUED FOR CONSENT	BLO	JUNE 2025	DESIGNED	BLO				SEDIMENT AND EROSION CONTROL PLAN					SCALE	1:1000 @ A3	2
				DRAWN	BLO				SHEET 1					COUNCIL	HASTINGS DISTRICT COUNCIL	
				CHECKED	BF									DWG NO	P24-244-00-1801-EW	
				APPROVED	BF											

LEGEND

EXISTING MAJOR CONTOURS (1m INTERVAL)	---	23
EXISTING MINOR CONTOURS (0.5m INTERVAL)	---	
PROPOSED MAJOR CONTOURS (0.5m INTERVAL)	---	23.5
PROPOSED MINOR CONTOURS (0.25m INTERVAL)	---	
WATERCOURSE	→ → →	
SEDIMENT RETENTION POND		
DECANT EARTH BUND OUTLET	→ → →	
CLEAN WATER DIVERSION DRAIN	→ → →	
EARTH BUND	—	
PROPOSED RETAINING WALL	—	
SUPER SILT FENCE	—	

NOTES

- ALL EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE CONSTRUCTED IN ACCORDANCE WITH THE HAWKE'S BAY REGIONAL COUNCIL WATERWAY GUIDELINES EROSION AND SEDIMENT CONTROL DOCUMENT APRIL 2009.
- BEFORE COMMENCING WORKS THE CONTRACTOR SHALL ENSURE THAT HE HAS A COPY OF THE RESOURCE CONSENT FROM THE ENGINEER.
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- THE EXTENT OF AREAS TO BE WORKED ARE TO BE CLEARLY IDENTIFIED PRIOR TO STRIPPING AND ALL EROSION & SEDIMENT CONTROL MEASURES IN PLACE AND APPROVED BEFORE EARTHWORKS COMMENCE.
- THE FOREBAYS AND MAIN BODY OF SEDIMENT RETENTION PONDS ARE TO BE LINED WITH AN HDPE LINER APPROVED BY THE ENGINEER.



REVISION DETAILS	INT	DATE	SURVEYED	WOODS
2 ISSUED FOR CONSENT	BLO	JUNE 2025	DESIGNED	BLO
			DRAWN	BLO
			CHECKED	BF
			APPROVED	BF

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ARATAKI DEVELOPMENT - HAVELOCK NORTH
SEDIMENT AND EROSION CONTROL PLAN
SHEET 2

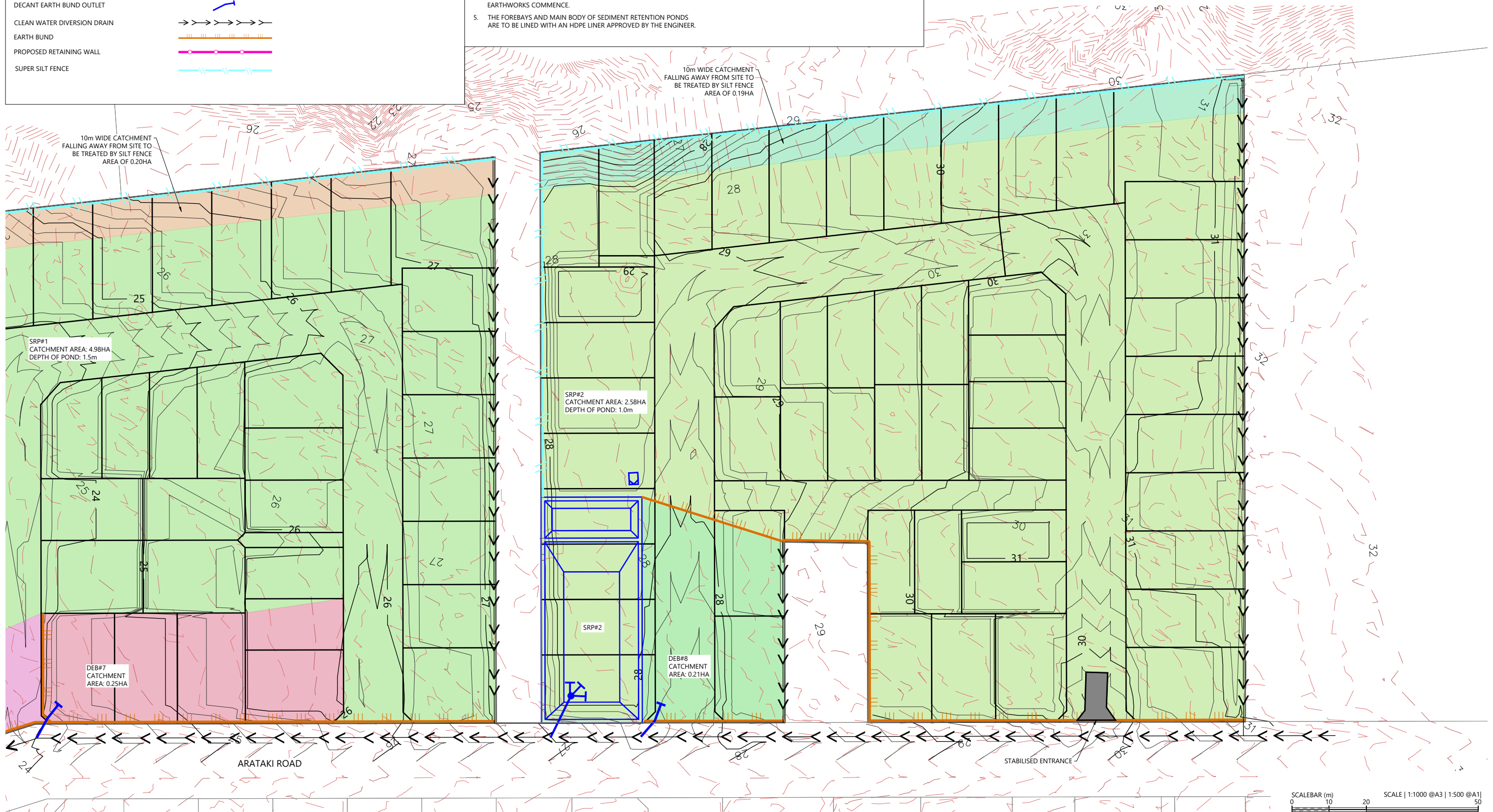
STATUS	ISSUED FOR CONSENT	REV
SCALE	1:1000 @ A3	2
COUNCIL	HASTINGS DISTRICT COUNCIL	
DWG NO	P24-244-00-1802-EW	

LEGEND

EXISTING MAJOR CONTOURS (1m INTERVAL)		23
EXISTING MINOR CONTOURS (0.5m INTERVAL)		
PROPOSED MAJOR CONTOURS (0.5m INTERVAL)		23.5
PROPOSED MINOR CONTOURS (0.25m INTERVAL)		
WATERCOURSE		
SEDIMENT RETENTION POND		
DECANT EARTH BUND OUTLET		
CLEAN WATER DIVERSION DRAIN		
EARTH BUND		
PROPOSED RETAINING WALL		
SUPER SILT FENCE		

NOTES

1. ALL EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE CONSTRUCTED IN ACCORDANCE WITH THE HAWKE'S BAY REGIONAL COUNCIL WATERWAY GUIDELINES EROSION AND SEDIMENT CONTROL DOCUMENT APRIL 2009.
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5. THE FOREBAYS AND MAIN BODY OF SEDIMENT RETENTION PONDS ARE TO BE LINED WITH AN HDPE LINER APPROVED BY THE ENGINEER.



REVISION DETAILS	INT	DATE	SURVEYED	WOODS
2 ISSUED FOR CONSENT	BLO	JUNE 2025	DESIGNED	BLO
			DRAWN	BLO
			CHECKED	BF
			APPROVED	BF



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ARATAKI DEVELOPMENT - HAVELOCK NORTH

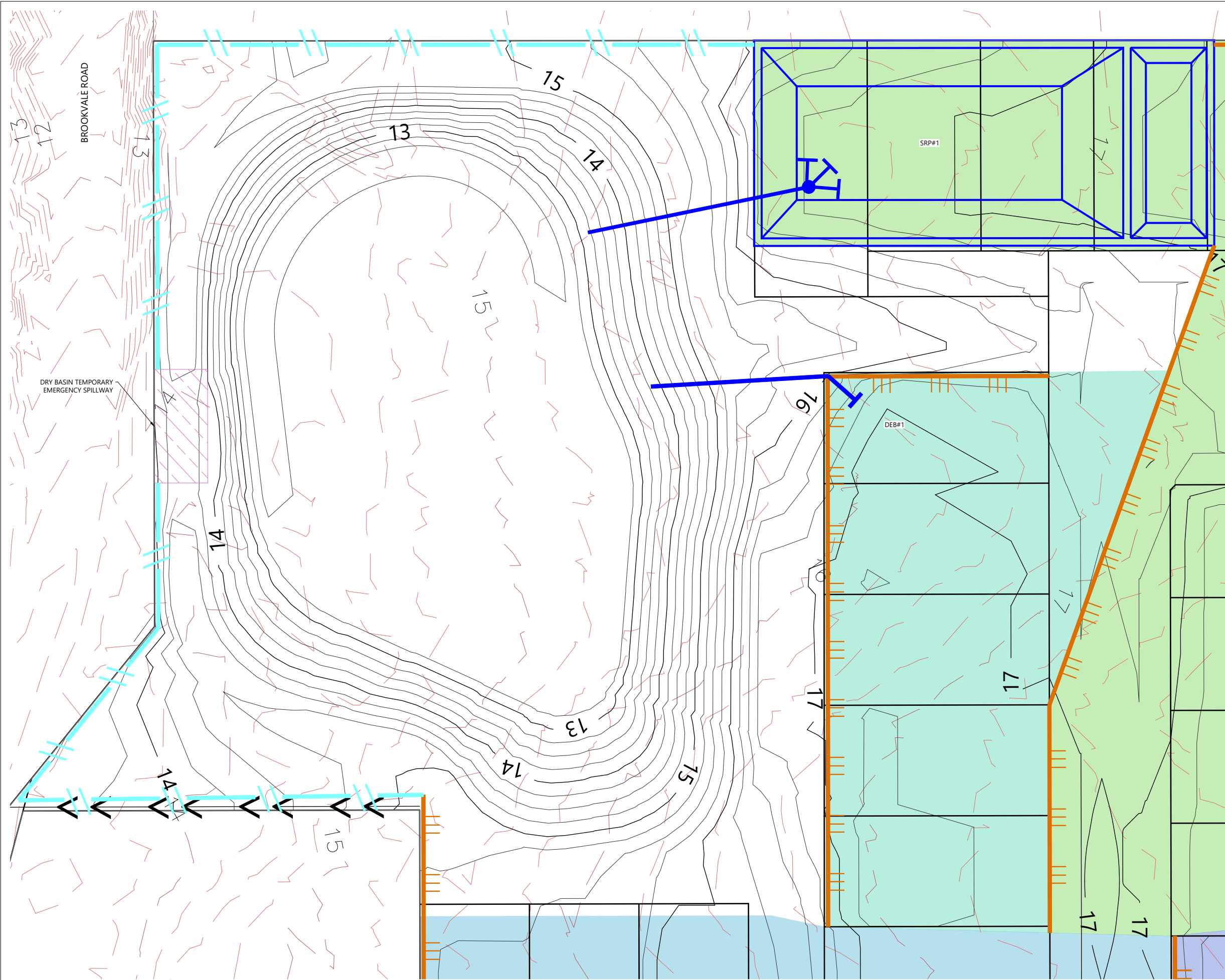
SEDIMENT AND EROSION CONTROL PLAN

SHEET 3



STATUS	ISSUED FOR CONSENT	REV
SCALE	1:1000 @ A3	2
COUNCIL	HASTINGS DISTRICT COUNCIL	
DWG NO	P24-244-00-1803-EW	





- WORKS METHODOLOGY NOTES**
- WORKS ARE TO BE UNDERTAKEN DURING A PERIOD OF FORECASTED DRY WEATHER.
 - ESTABLISHMENT OF SILT FENCES, SRP#1, DEB#1 AND THEIR RESPECTIVE BUNDS TO BE COMPLETED SUCH THAT THESE CATCHMENTS ARE CONTROLLED. TEE BARS FROM SRP#1 AND DEB#1 ARE TO BE LIFTED SUCH THAT WATER DOES NOT ESCAPE THESE DEVICES UNTIL THE DRY BASIN LINING IS INSTALLED.
 - ONCE THE ABOVE EROSION AND SEDIMENT CONTROLS ARE ESTABLISHED AND AS BUILTS CONFIRMED BY THE ENGINEER AND COUNCIL INSPECTOR, CUT / FILL OF THE DRY BASIN CAN COMMENCE.
 - CUT MATERIAL FROM THE DRY BASIN IS TO BE PLACED IN FILL WITHIN THE DRY BASIN AREA OR THE CATCHMENT OF SRP#1.
 - ONCE THE DRY BASIN SUBGRADE IS TRIMMED, TESTED, AND PASSED BY THE GEOTECHNICAL ENGINEER THE GEOSYNTHETIC LINER IS TO BE INSTALLED ON THE BASE OF THE DRY BASIN AND UP THE BANKS TO RL=14.9m.
 - NO PENETRATIONS IN THE LINER ARE ALLOWED FOR DURING THE EARTHWORKS PHASE. LATER CONSTRUCTION OF THE CIVIL WORKS STORMWATER INLET AND OUTLET WILL REQUIRE REMOVAL AND REPLACEMENT OF THE LINER IN TWO ISOLATED LOCATIONS.
 - OUTLETS FROM SRP#1 AND DEB#1 ARE TO BE LAID OVER THE LINER AND DIRECTED TO THE BASE OF THE DRY BASIN. THESE OUTLET PIPES ARE TO DISCHARGE TO AN AREA OF RIP RAP.
 - WATER IMPOUNDED BY THE DRY BASIN IS TO BE PUMPED TO WATER CARTS AND USED AS DUST CONTROL FOR THE BULK EARTHWORKS.

- NOTES**
- ALL EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE CONSTRUCTED IN ACCORDANCE WITH THE HAWKE'S BAY REGIONAL COUNCIL WATERWAY GUIDELINES EROSION AND SEDIMENT CONTROL DOCUMENT APRIL 2009.
 - BEFORE COMMENCING WORKS THE CONTRACTOR SHALL ENSURE THAT HE HAS A COPY OF THE RESOURCE CONSENT FROM THE ENGINEER.
 - ANY MODIFICATIONS TO THE CONSENTED EROSION & SEDIMENT CONTROL DRAWING MUST BE APPROVED BY THE ENGINEER PRIOR TO CONSTRUCTION.
 - THE EXTENT OF AREAS TO BE WORKED ARE TO BE CLEARLY IDENTIFIED PRIOR TO STRIPPING AND ALL EROSION & SEDIMENT CONTROL MEASURES IN PLACE AND APPROVED BEFORE EARTHWORKS COMMENCE.
 - THE FOREBAYS AND MAIN BODY OF SEDIMENT RETENTION PONDS ARE TO BE LINED WITH AN HDPE LINER APPROVED BY THE ENGINEER.

LEGEND

STAGE BOUNDARY	
DESIGN MAJOR CONTOURS (1m INTERVAL)	
DESIGN MINOR CONTOURS (0.5m INTERVAL)	
PROPOSED MAJOR CONTOURS (0.5m INTERVAL)	
PROPOSED MINOR CONTOURS (0.25m INTERVAL)	
CONTOUR DRAINS	
SEDIMENT RETENTION POND	
DECANT EARTH BUND OUTLET	
CLEAN WATER DIVERSION DRAIN	
EARTH BUND	
PROPOSED RETAINING WALL	
SUPER SILT FENCE	
SILT FENCE	



REVISION DETAILS		INT	DATE	SURVEYED	WOODS
1	ISSUED FOR DISCUSSION	BM	APR 2025	DESIGNED	BLO
2	ISSUED FOR CONSENT	TB	JUNE 2025	DRAWN	BM
				CHECKED	BLO
				APPROVED	BF



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ARATAKI DEVELOPMENT - HAVELOCK NORTH
SEDIMENT AND EROSION CONTROL PLAN
DRY BASIN

	STATUS	ISSUED FOR CONSENT	2
	SCALE	1:500 @ A3	
	COUNCIL	HASTINGS DISTRICT COUNCIL	
	DWG NO	P24-244-00-1805-EW	

Figure 5-3
Contour Drain

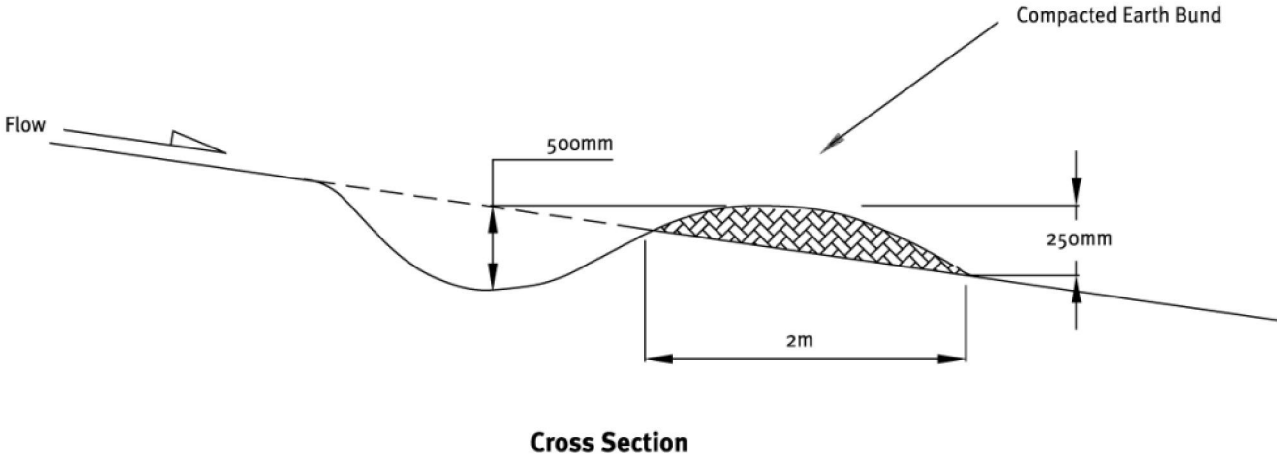


Figure 5-1
Cleanwater Runoff Diversion Bund

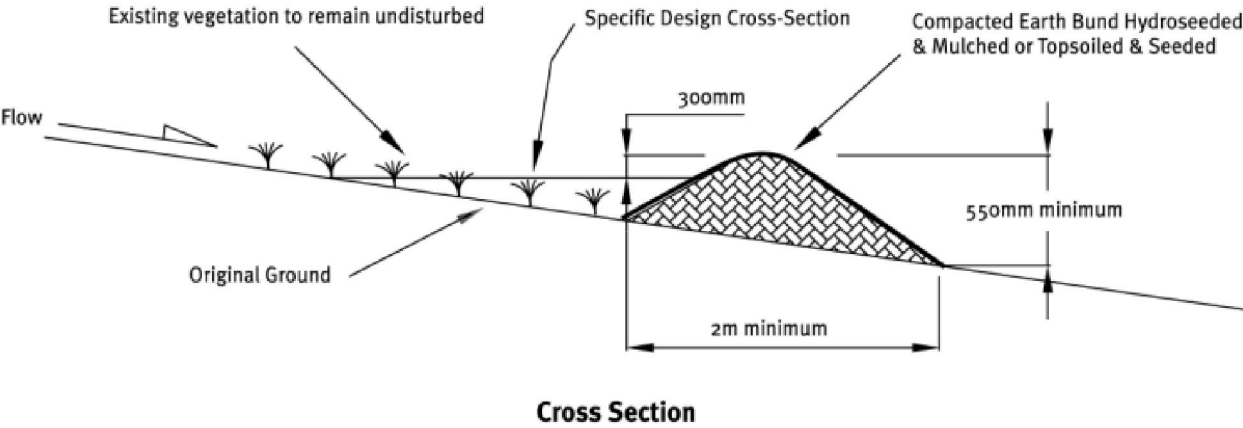


Figure 5-2
Runoff Diversion Channel

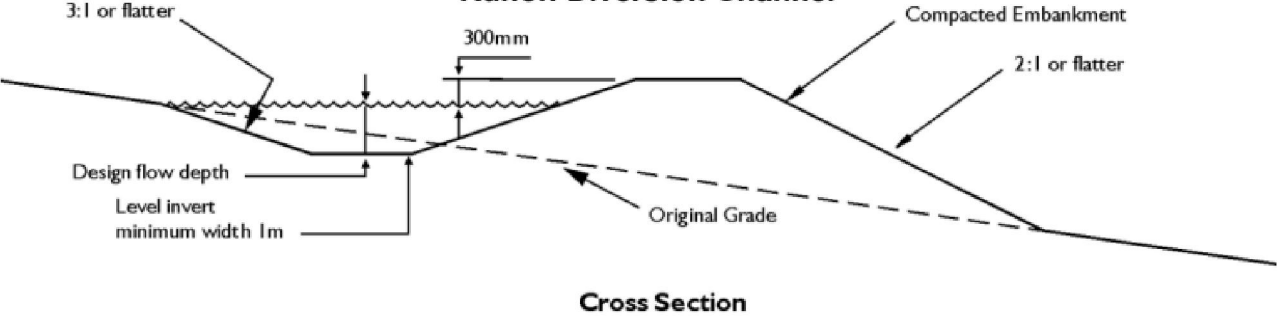
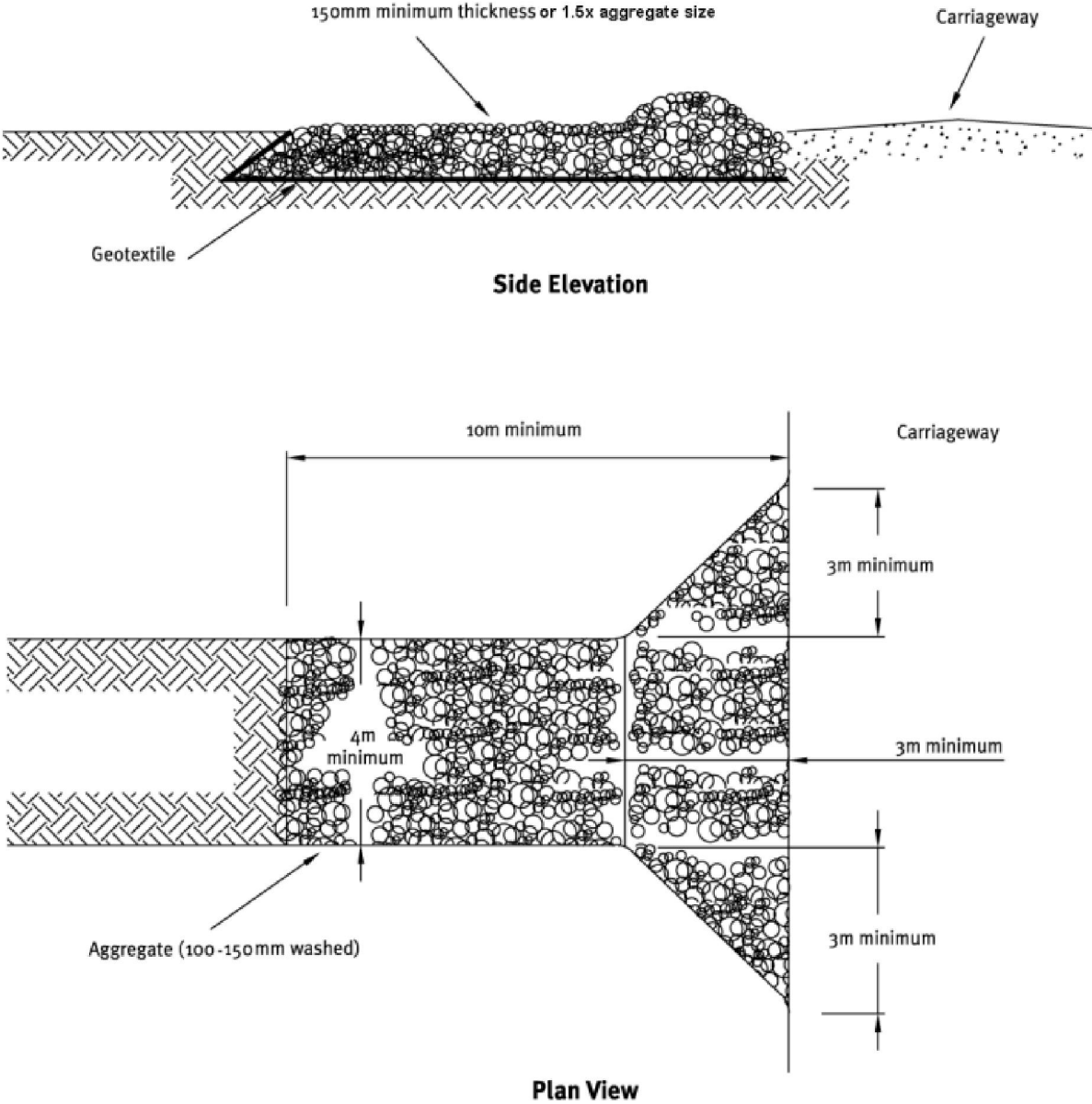


Figure 5-7
Stabilised Construction Entrance Schematic



REVISION DETAILS		INT	DATE	SURVEYED	WOODS
1	ISSUED FOR DISCUSSION	BM	APR 2025	DESIGNED	AB
2	ISSUED FOR CONSENT	TB	JUNE 2025	DRAWN	BM
				CHECKED	BLO
				APPROVED	BF



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ARATAKI DEVELOPMENT - HAVELOCK NORTH
SEDIMENT AND EROSION CONTROL
STANDARD DETAILS SHEET 1

STATUS	ISSUED FOR CONSENT	REV
SCALE	N.T.S	2
COUNCIL	HASTINGS DISTRICT COUNCIL	
DWG NO	P24-244-00-1810-EW	

Figure 6-9
Schematic of Silt Fence

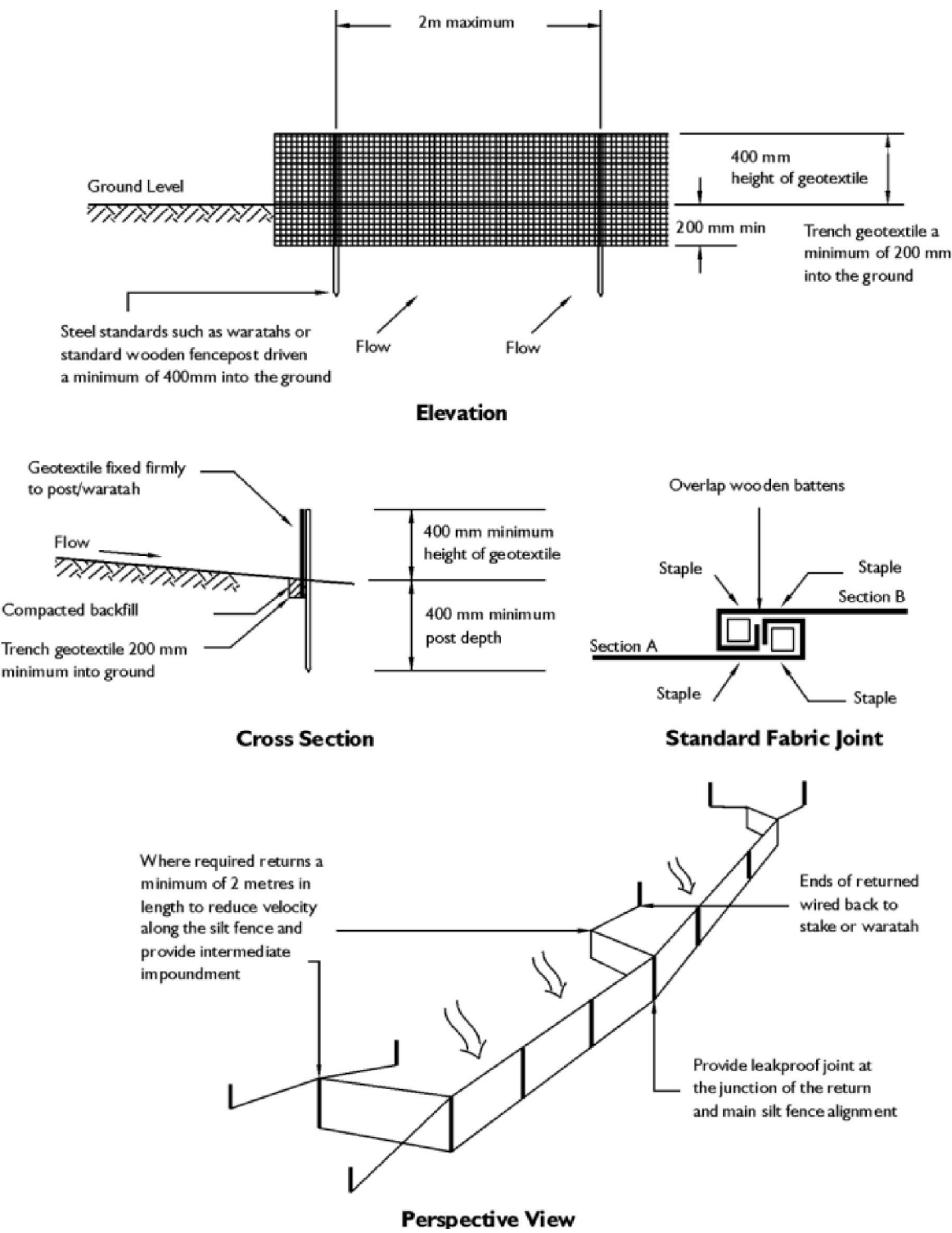
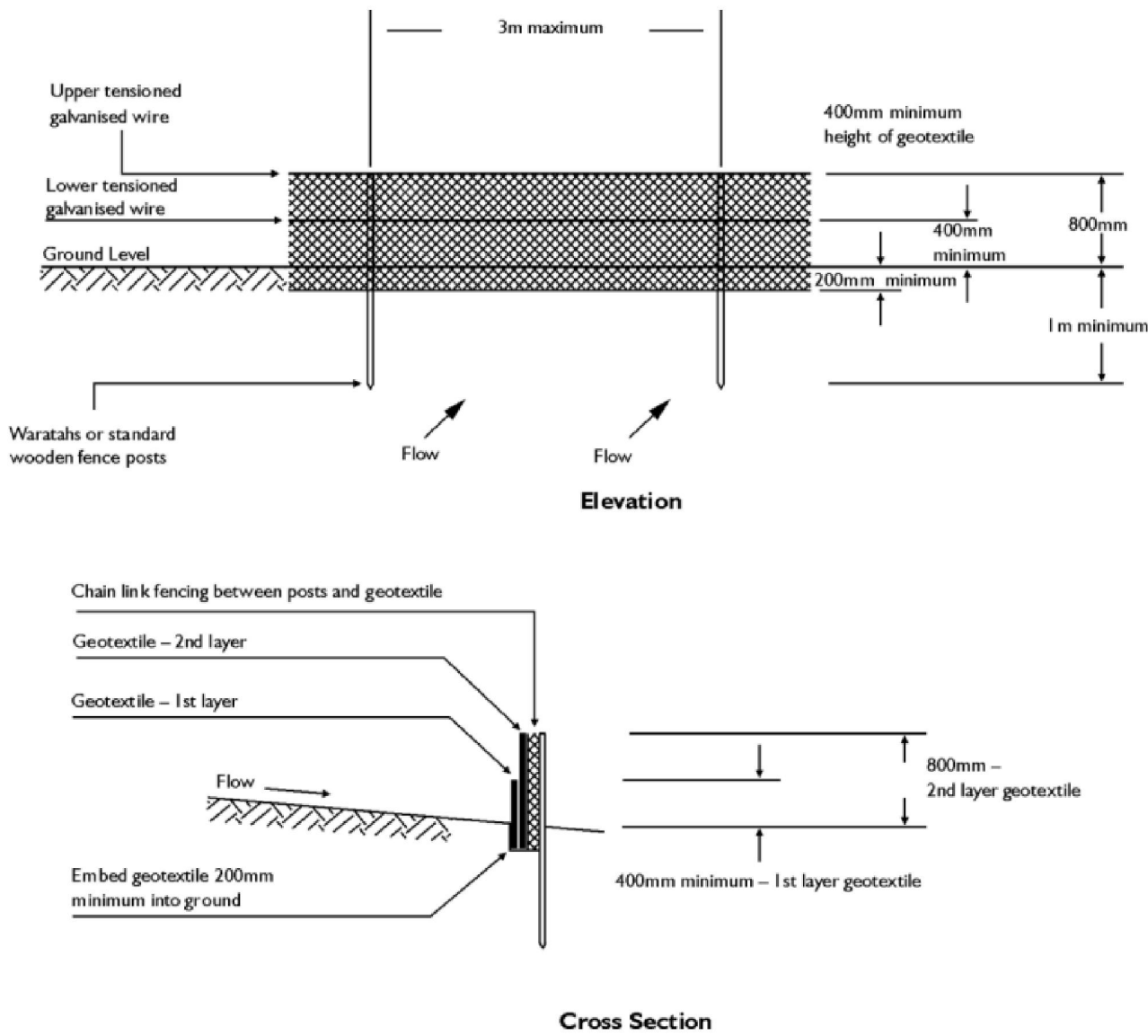


Figure 6-10
Super Silt Fence Schematic



REVISION DETAILS		INT	DATE	SURVEYED	WOODS
1	ISSUED FOR DISCUSSION	BM	APR 2025	DESIGNED	AB
2	ISSUED FOR CONSENT	TB	JUNE 2025	DRAWN	BM
				CHECKED	BLO
				APPROVED	BF



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ARATAKI DEVELOPMENT - HAVELOCK NORTH
SEDIMENT AND EROSION CONTROL
STANDARD DETAILS SHEET 2

STATUS	ISSUED FOR CONSENT	REV
SCALE	N.T.S	2
COUNCIL	HASTINGS DISTRICT COUNCIL	
DWG NO	P24-244-00-1811-EW	

Figure 6-12
Decanting Earth Bund with a Floating Decant

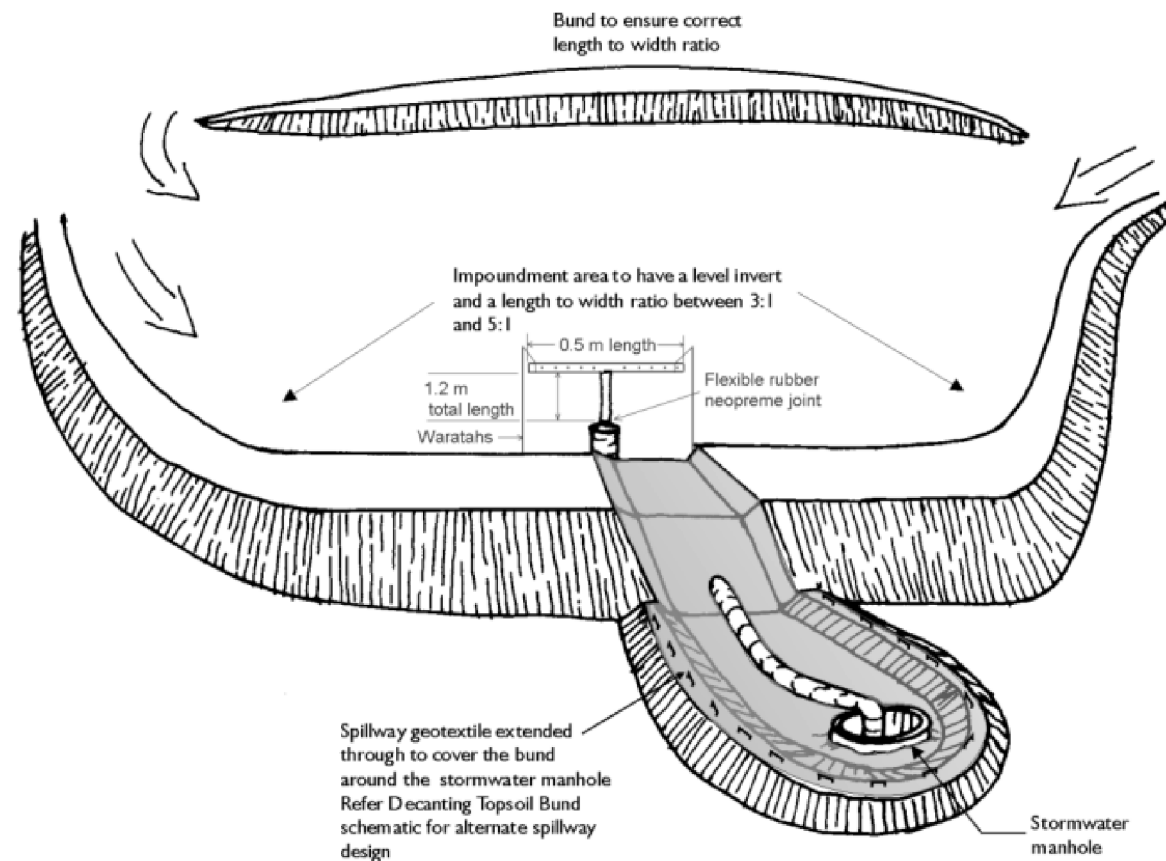


Figure 6-13
Cross-section of a Floating Decant

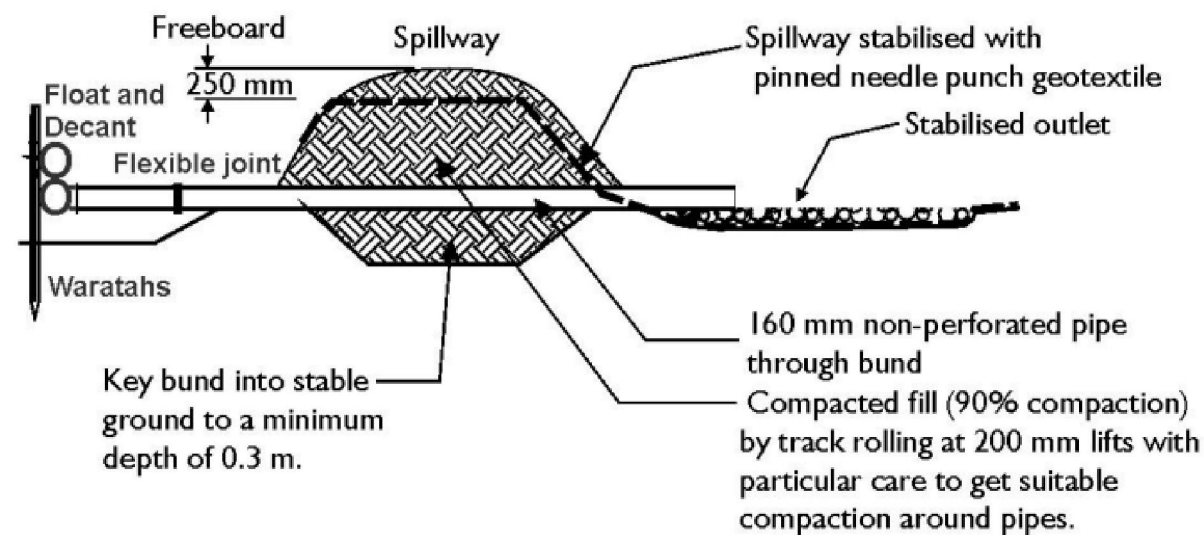
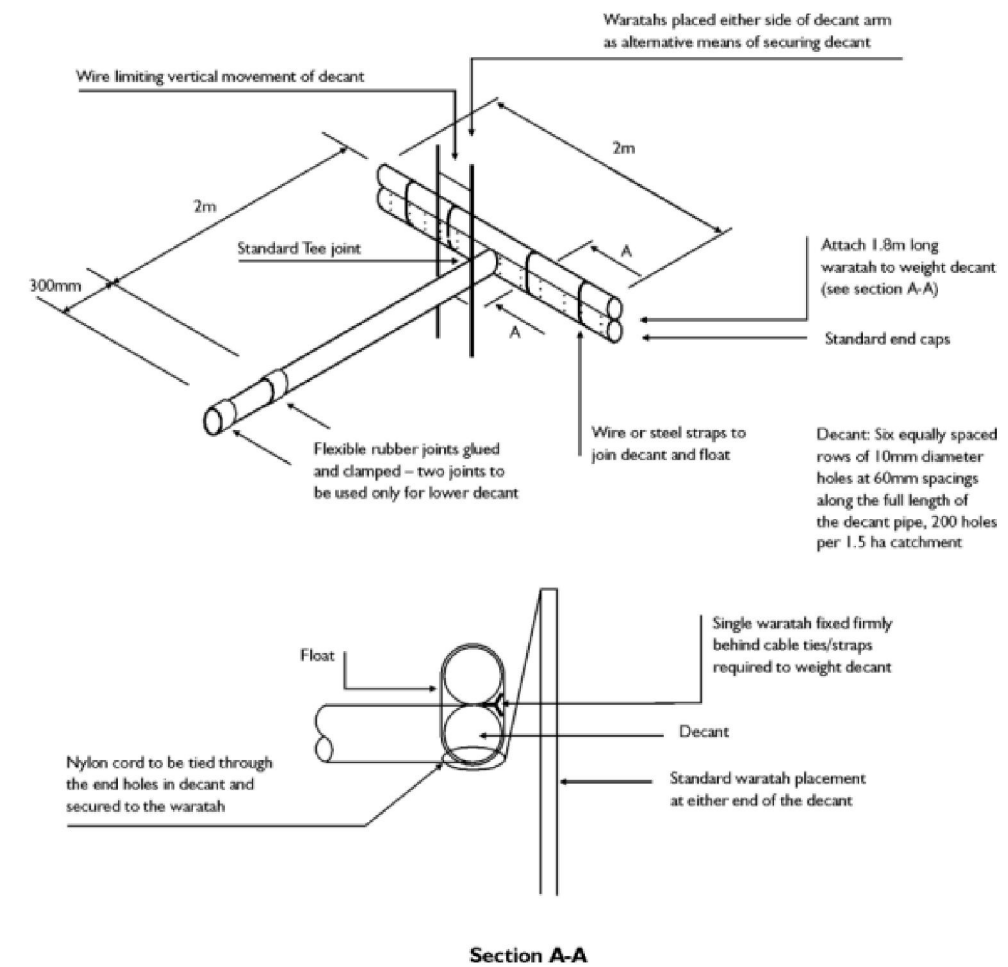


Figure 6-2
Schematic of a T-bar Decant Structure



REVISION DETAILS		INT	DATE	SURVEYED	WOODS
1	ISSUED FOR DISCUSSION	BM	APR 2025	DESIGNED	AB
2	ISSUED FOR CONSENT	TB	JUNE 2025	DRAWN	BM
				CHECKED	BLO
				APPROVED	BF



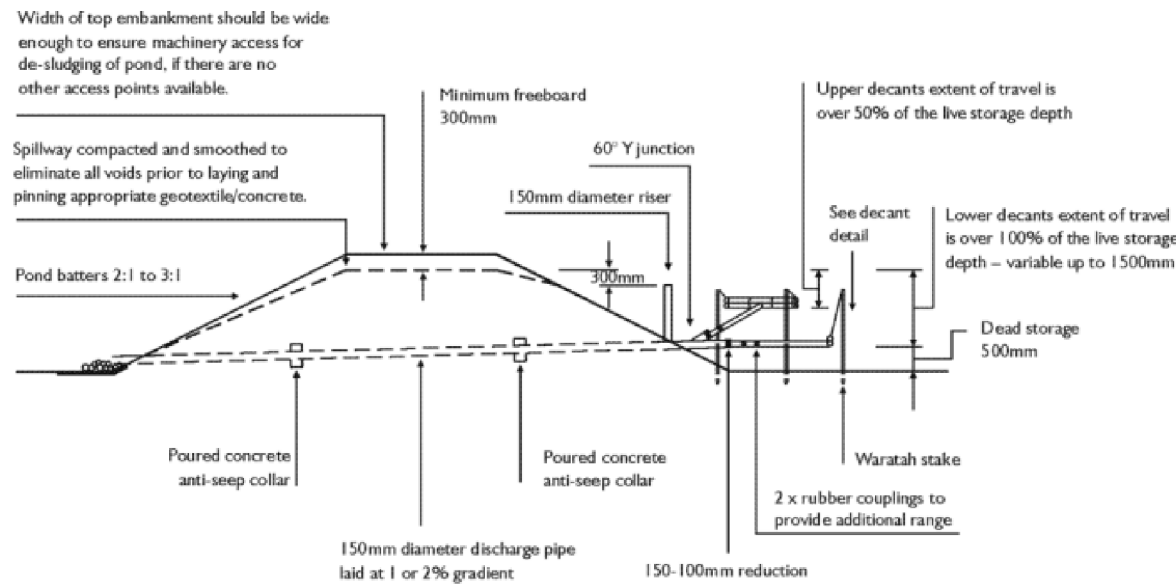
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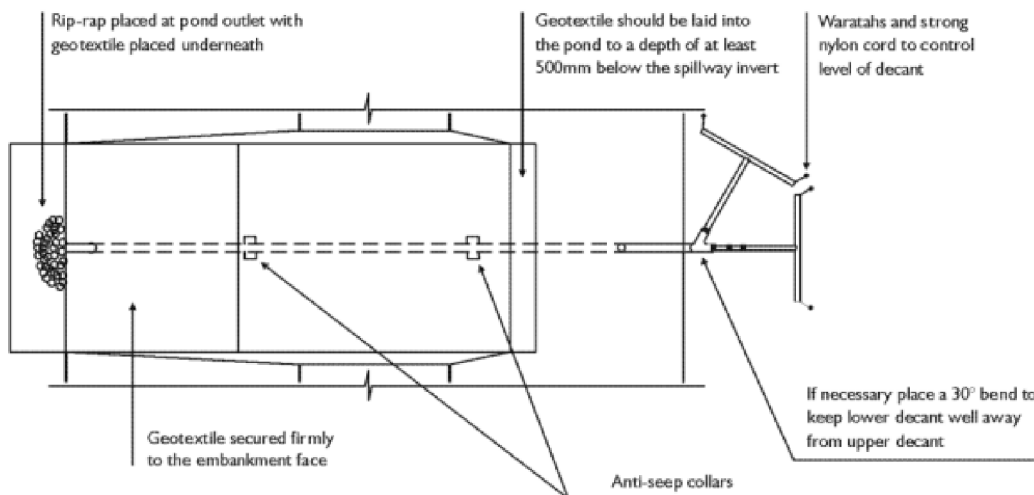
ARATAKI DEVELOPMENT - HAVELOCK NORTH
SEDIMENT AND EROSION CONTROL
STANDARD DETAILS SHEET 3

STATUS	ISSUED FOR CONSENT	REV
SCALE	N.T.S	2
COUNCIL	HASTINGS DISTRICT COUNCIL	
DWG NO	P24-244-00-1812-EW	

Figure 6-4
Sediment Retention Pond for Catchments Between 1.5 - 3 ha.

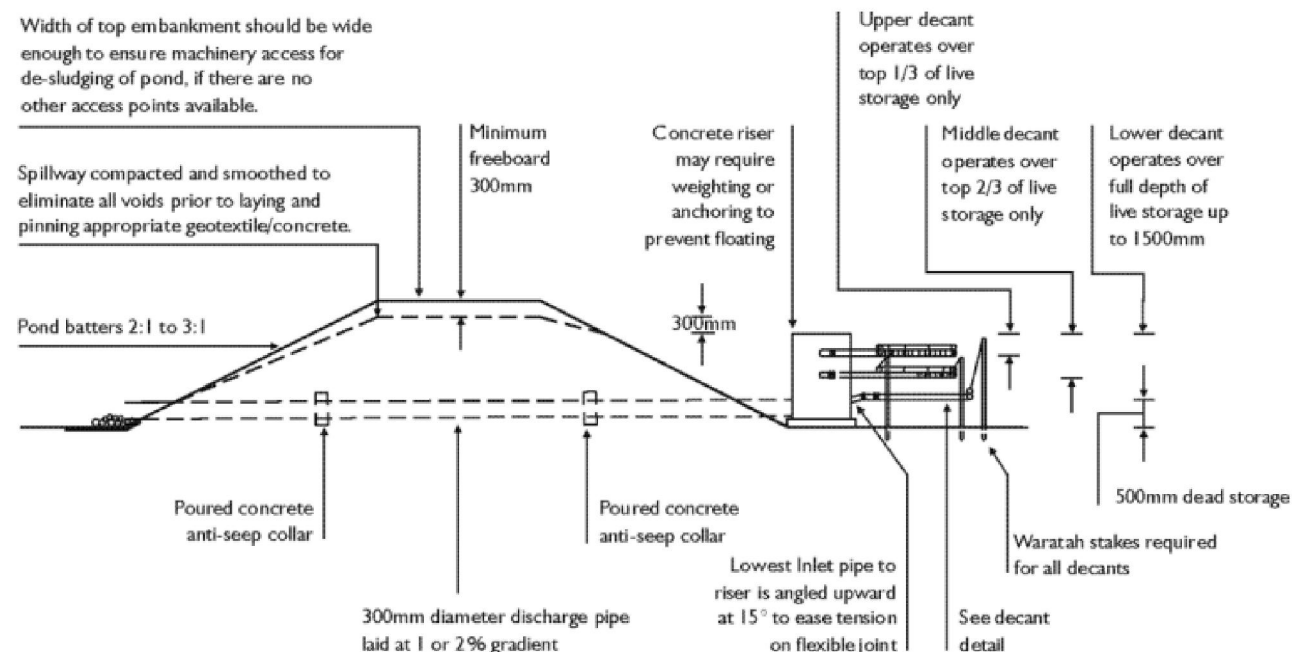


Cross Section

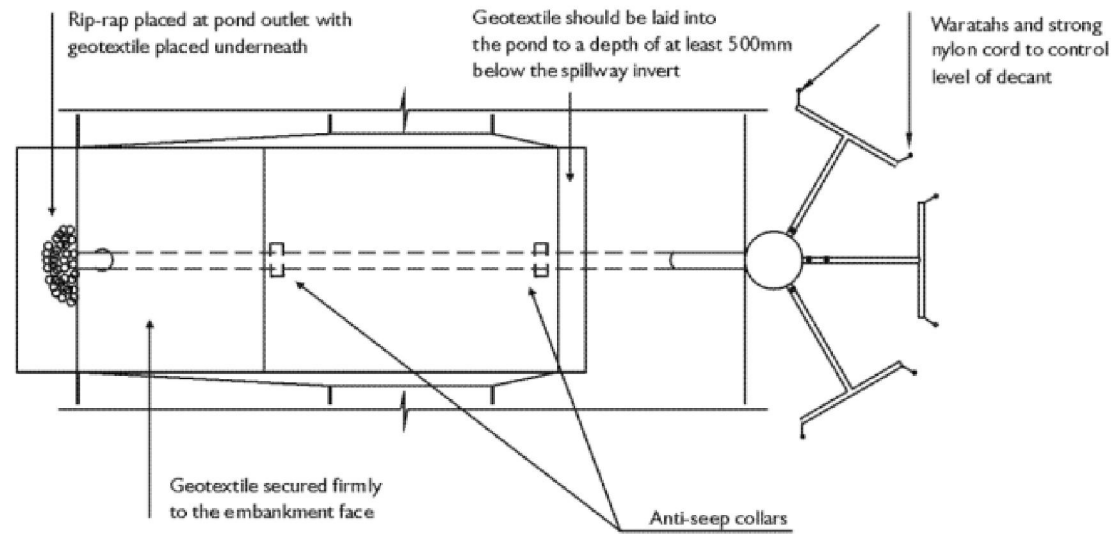


Plan

Figure 6-5
Sediment Retention Pond for Catchments Between 3 and 5 ha.



Cross Section



Plan

Figure 6-1
Schematic of a Sediment Retention Pond

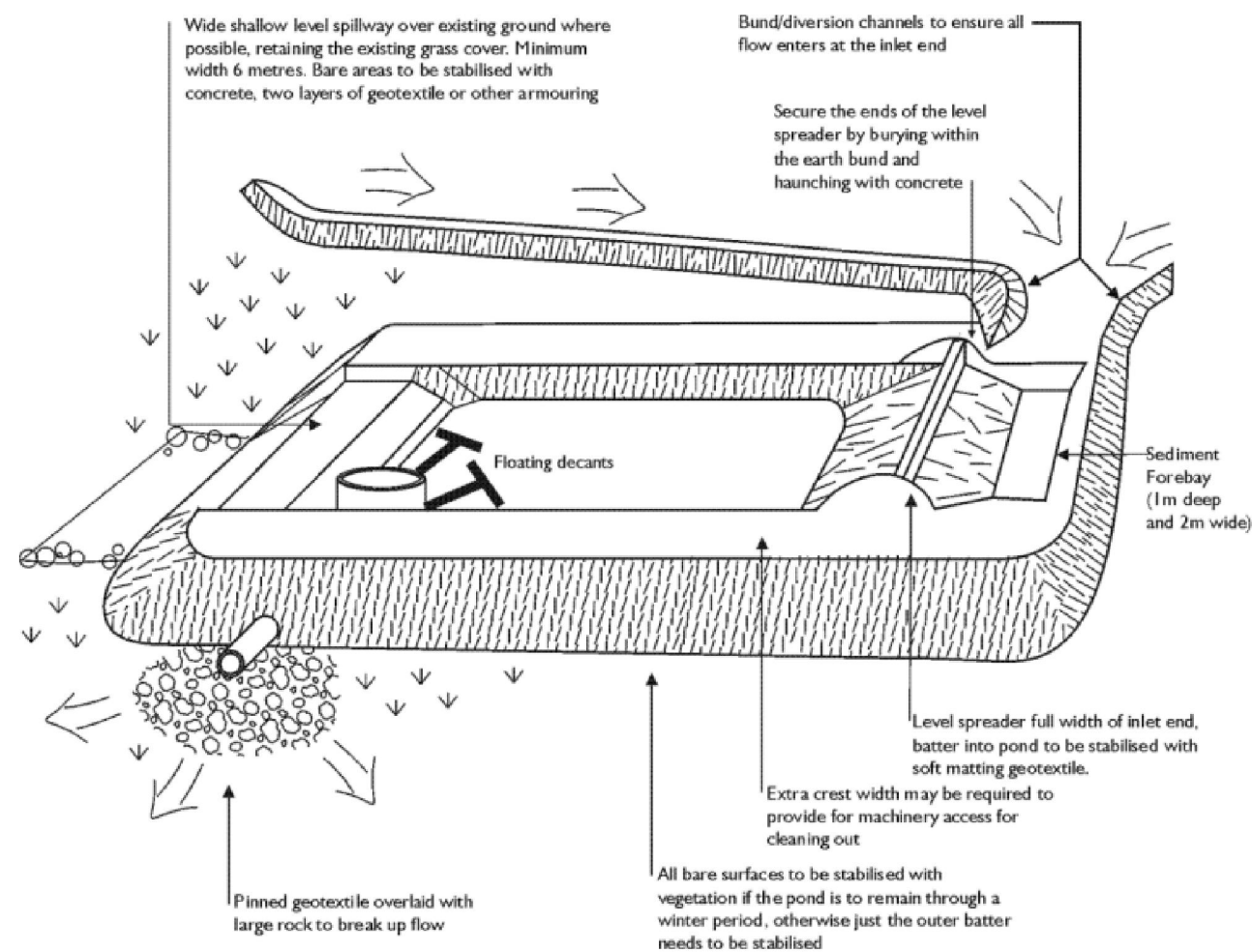
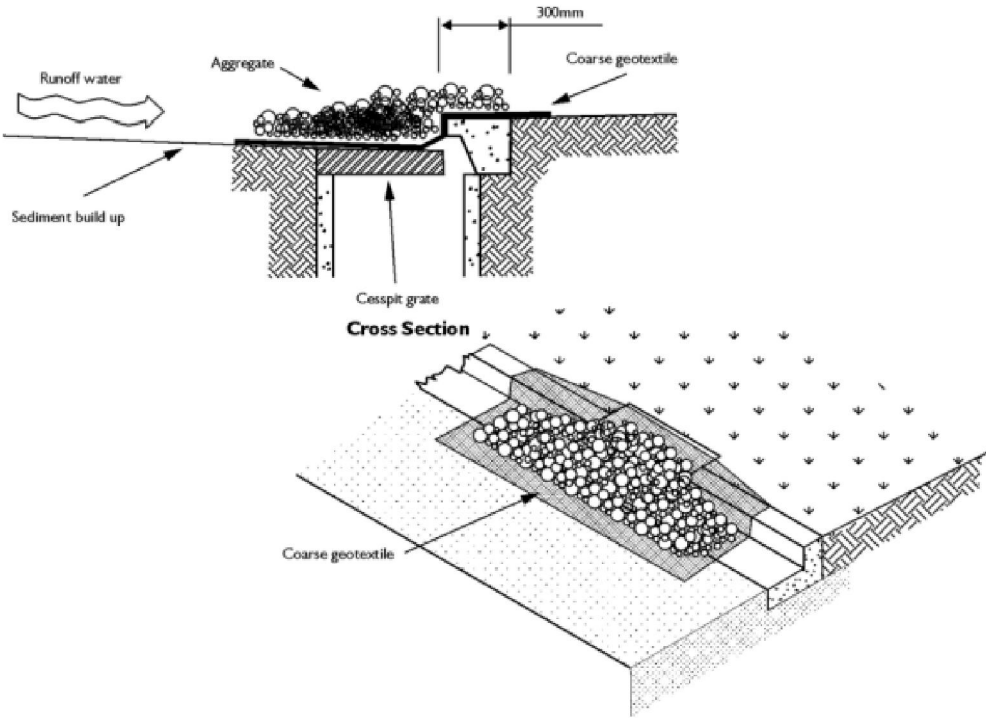


Figure 6-11
Schematic of Inlet Protection



REVISION DETAILS				
1	ISSUED FOR DISCUSSION	BM	APR 2025	DESIGNED AB
2	ISSUED FOR CONSENT	TB	JUNE 2025	DRAWN BM
				CHECKED BLO
				APPROVED BF



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ARATAKI DEVELOPMENT - HAVELOCK NORTH
SEDIMENT AND EROSION CONTROL
STANDARD DETAILS SHEET 5

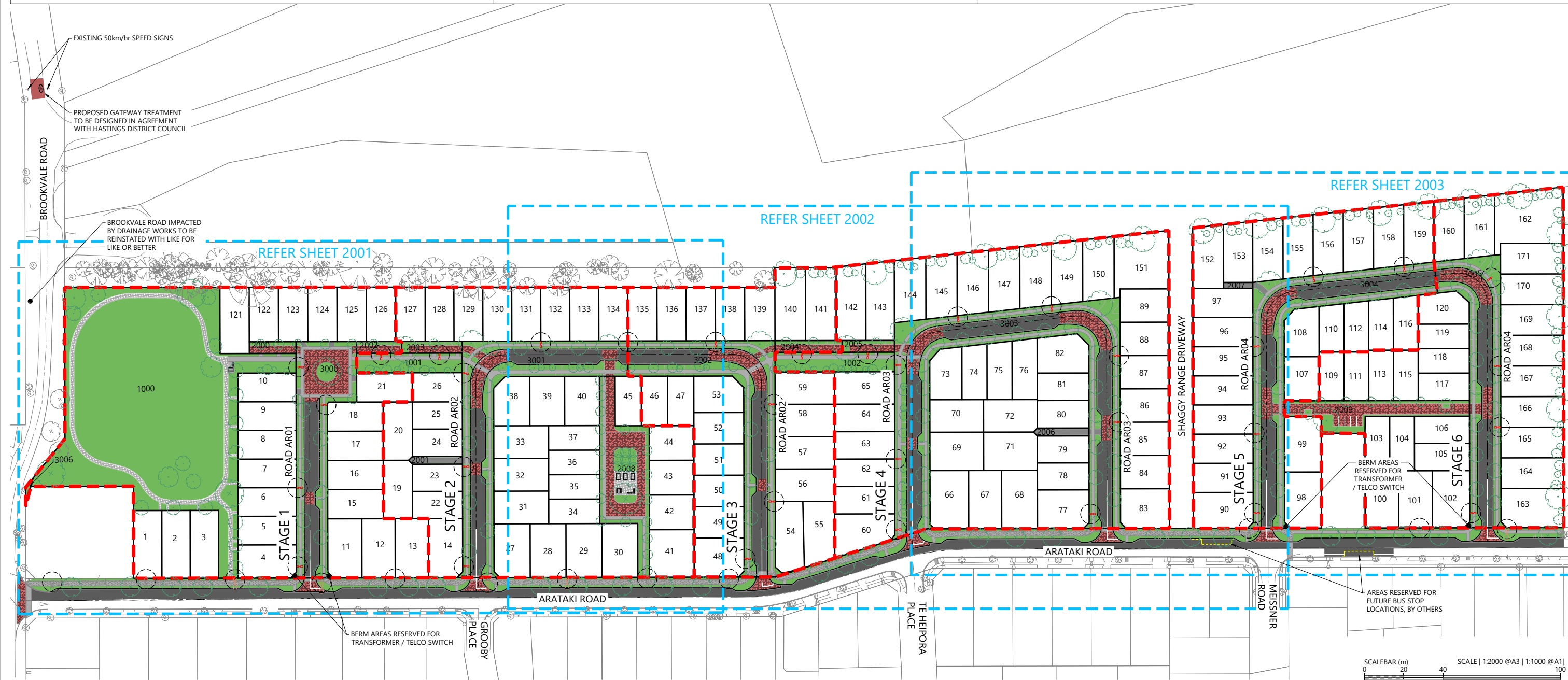
STATUS	ISSUED FOR CONSENT	REV
SCALE	N.T.S	2
COUNCIL	HASTINGS DISTRICT COUNCIL	
DWG NO	P24-244-00-1814-EW	

LEGEND

PROPOSED ASPHALT PAVING	
PROPOSED BERM	
PROPOSED FOOTPATH	
PROPOSED INFORMAL PATH	
PROPOSED SHARED PATH	
PROPOSED DECORATIVE CONCRETE	
EXISTING STREETLIGHT AND 5m SEPARATION	
RELOCATED STREETLIGHT AND 5m SEPARATION	
PROPOSED STREETLIGHT AND 5m SEPARATION	
PROPOSED TREE	
EXISTING TREES TO BE RETAINED	

NOTES

1. ALL WORKS & MATERIALS TO COMPLY WITH HASTINGS DISTRICT COUNCIL ENGINEERING COP STANDARDS. ANY AMBIGUITY BETWEEN THESE DRAWINGS & THE STANDARDS IS TO BE REFERRED TO THE ENGINEER FOR CLARIFICATION.
2. ALL KERB & CHANNEL / NIB TO BE SLIP-FORM, 25MPA FIBRE REINFORCED.
3. ALL SUMPS TO BE SEMI-RECESSED 800X500 WITH 1.2M LINTEL UNLESS SPECIFIED OTHERWISE.
4. FOOTPATHS TO BE CONSTRUCTED AS PER THE TYPICAL CROSS SECTIONS.
5. PRAM CROSSINGS TO BE CONSTRUCTED AS PER HASTINGS DISTRICT COUNCIL ENGINEERING COP STANDARDS.
6. VEHICLE CROSSINGS SHOWN ON THIS PLAN ARE FOR PLANNING PURPOSES ONLY & WILL NOT BE CONSTRUCTED UNLESS OTHERWISE NOTED.
7. ALL LINE MARKING & ROAD SIGNAGE IS TO BE CONSTRUCTED AS PER NEW ZEALAND TRANSPORT AGENCY MANUAL OF SIGNS & MARKINGS.
8. REFER TO LIGHTING DESIGN FOR STREETLIGHT TYPES AND DETAILS.
9. REFER TO LANDSCAPING PLAN FOR LANDSCAPING DETAILS AND TREE TYPES.



REVISION DETAILS	INT	DATE	SURVEYED	WOODS
1 ISSUED FOR DISCUSSION	TB	APR 2025	DESIGNED	AB
2 ISSUED FOR CONSENT	TB	JUNE 2025	DRAWN	TB
			CHECKED	BLO
			APPROVED	BF



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ARATAKI DEVELOPMENT - HAVELOCK NORTH

ROAD PLAN



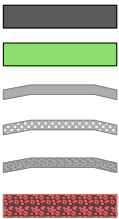
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SCALE	1:2000 @ A3	2
COUNCIL	HASTINGS DISTRICT COUNCIL	
DWG NO	P24-244-00-2000-RD	



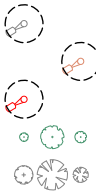
REVISION DETAILS		INT	DATE	SURVEYED	WOODS		BUILDING B, LEVEL 1 8 NUGENT ST, GRAFTON, AUCKLAND 1023 +64 9 308 9229 WOODS.CO.NZ		ARATAKI DEVELOPMENT - HAVELOCK NORTH ROAD PLAN - SHEET 1			STATUS	ISSUED FOR CONSENT	REV
2	ISSUED FOR CONSENT	TB	JUNE 2025	DESIGNED	AB							SCALE	1:1000 @ A3	2
				DRAWN	TB							COUNCIL	HASTINGS DISTRICT COUNCIL	
				CHECKED	BLO							DWG NO	P24-244-00-2001-RD	
				APPROVED	BF									

LEGEND

PROPOSED ASPHALT PAVING
PROPOSED BERM
PROPOSED FOOTPATH
PROPOSED INFORMAL PATH
PROPOSED SHARED PATH
PROPOSED DECORATIVE CONCRETE



EXISTING STREETLIGHT AND 5m SEPARATION
RELOCATED STREETLIGHT AND 5m SEPARATION
PROPOSED STREETLIGHT AND 5m SEPARATION
PROPOSED TREE
EXISTING TREES TO BE RETAINED



NOTES

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5. PRAM CROSSINGS TO BE CONSTRUCTED AS PER HASTINGS DISTRICT COUNCIL ENGINEERING COP STANDARDS.
6. VEHICLE CROSSINGS SHOWN ON THIS PLAN ARE FOR PLANNING PURPOSES ONLY & WILL NOT BE CONSTRUCTED UNLESS OTHERWISE NOTED.
7. ALL LINE MARKING & ROAD SIGNAGE IS TO BE CONSTRUCTED AS PER NEW ZEALAND TRANSPORT AGENCY MANUAL OF SIGNS & MARKINGS.



REVISION DETAILS		INT	DATE	SURVEYED	WOODS
2	ISSUED FOR CONSENT	TB	JUNE 2025	DESIGNED	AB
				DRAWN	TB
				CHECKED	BLO
				APPROVED	BF

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ARATAKI DEVELOPMENT - HAVELOCK NORTH

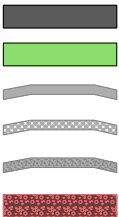
ROAD PLAN - SHEET 2



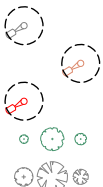
STATUS	ISSUED FOR CONSENT	REV
SCALE	1:1000 @ A3	2
COUNCIL	HASTINGS DISTRICT COUNCIL	
DWG NO	P24-244-00-2002-RD	

LEGEND

PROPOSED ASPHALT PAVING
PROPOSED BERM
PROPOSED FOOTPATH
PROPOSED INFORMAL PATH
PROPOSED SHARED PATH
PROPOSED DECORATIVE CONCRETE



EXISTING STREETLIGHT AND 5m SEPARATION
RELOCATED STREETLIGHT AND 5m SEPARATION
PROPOSED STREETLIGHT AND 5m SEPARATION
PROPOSED TREE
EXISTING TREES TO BE RETAINED



NOTES

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REVISION DETAILS		INT	DATE	SURVEYED	WOODS
2	ISSUED FOR CONSENT	TB	JUNE 2025	DESIGNED	AB
				DRAWN	TB
				CHECKED	BLO
				APPROVED	BF



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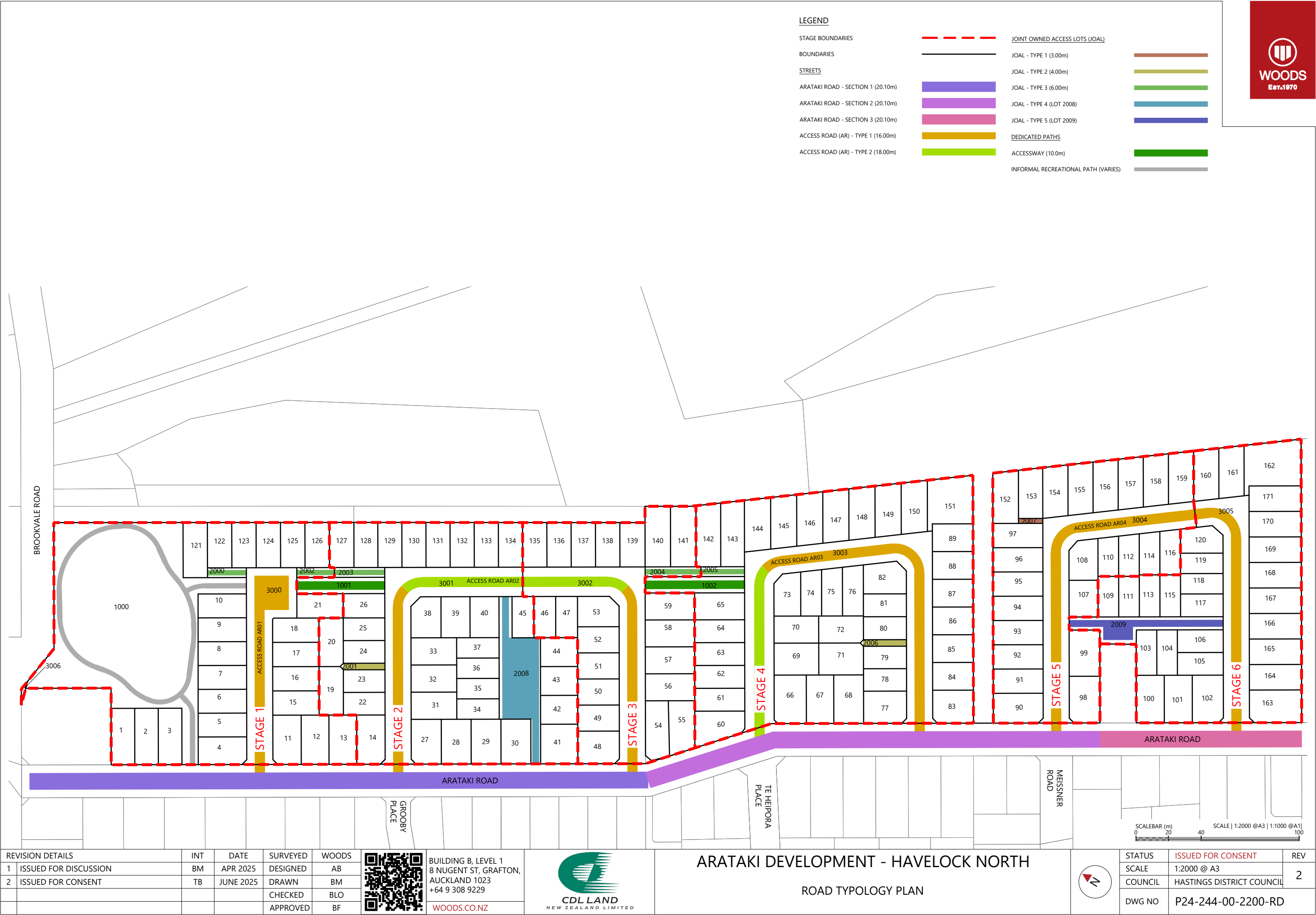


ARATAKI DEVELOPMENT - HAVELOCK NORTH




ROAD PLAN - SHEET 3

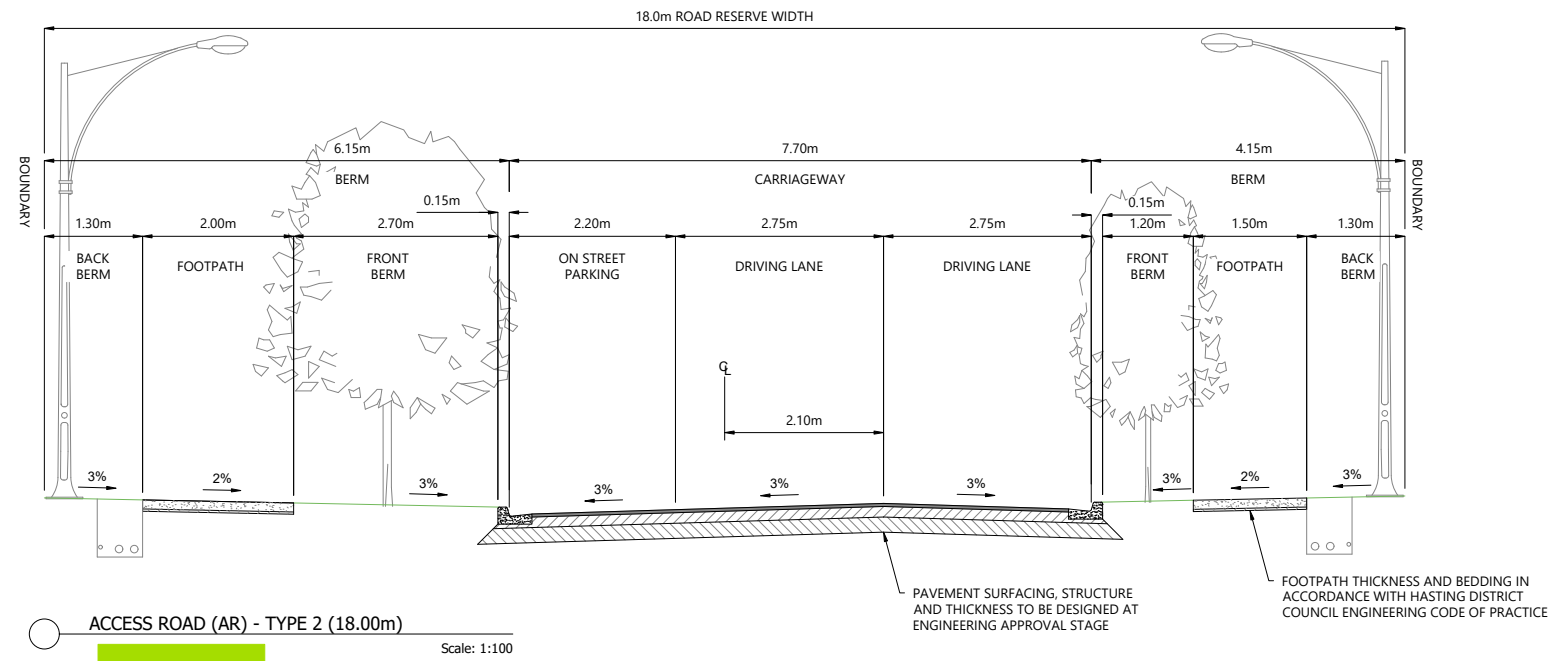
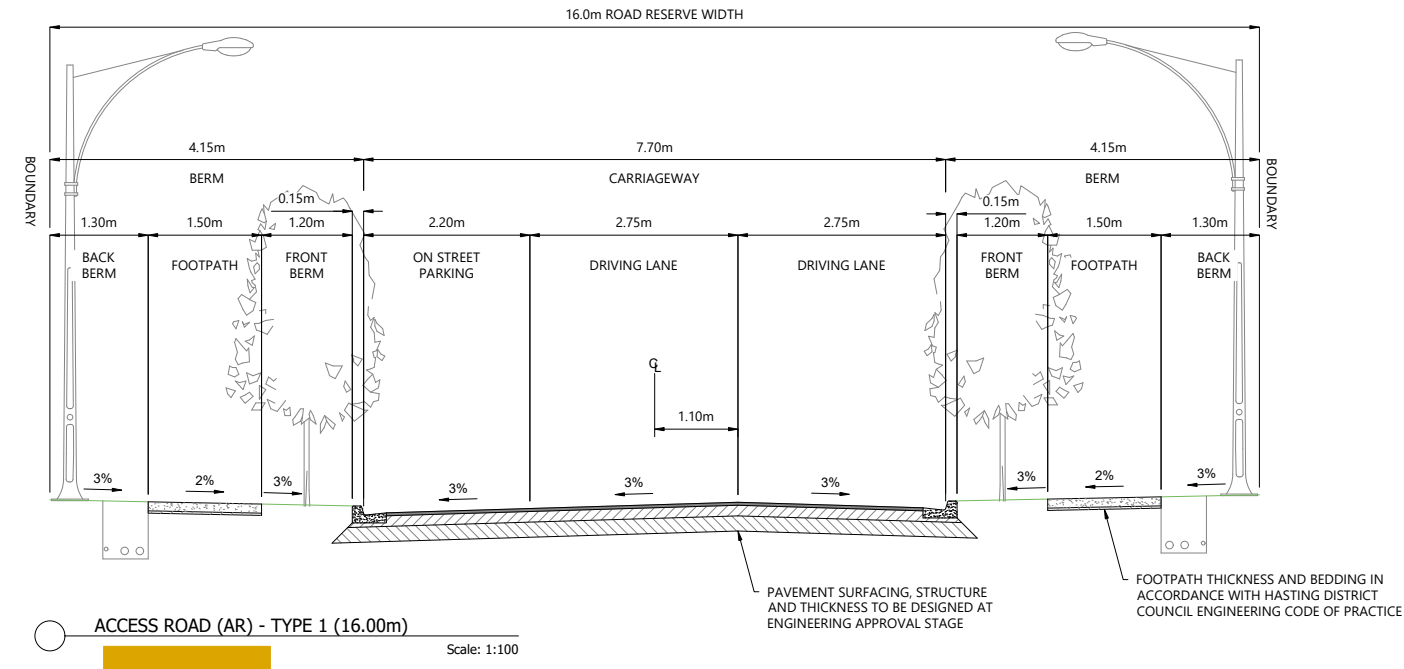



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DWG NO	P24-244-00-2003-RD	

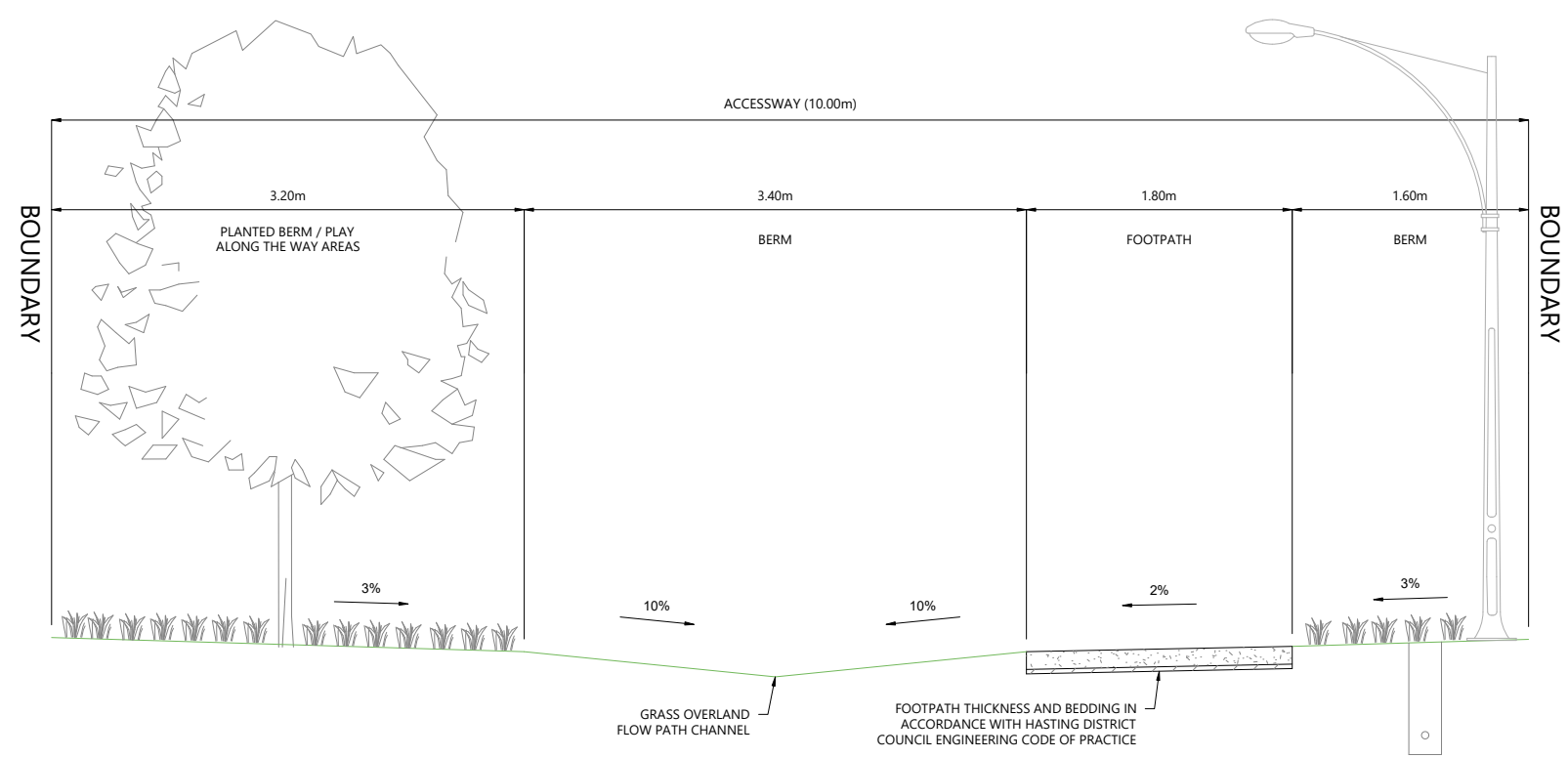




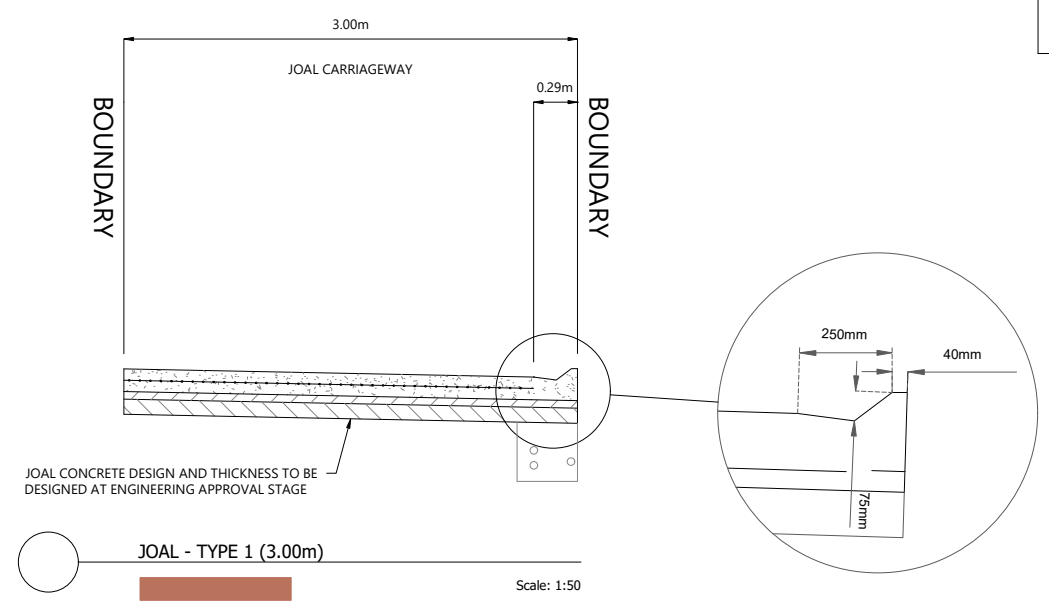
REVISION DETAILS		INT	DATE	SURVEYED	WOODS		<div><div></div><div>BUILDING B, LEVEL 1 8 NUGENT ST, GRAFTON, AUCKLAND 1023 +64 9 308 9229</div></div> <div>WOODS.CO.NZ</div>	<div>ARATAKI DEVELOPMENT - HAVELOCK NORTH</div> <div>TYPICAL CROSS SECTIONS ARATAKI ROAD</div>	<div><div></div><div>STATUS</div><div>ISSUED FOR CONSENT</div><div>SCALE</div><div>1:100 @ A3</div><div>COUNCIL</div><div>HASTINGS DISTRICT COUNCIL</div><div>DWG NO</div><div>P24-244-00-2201-RD</div></div>	REV
1	ISSUED FOR DISCUSSION	BM	APR 2025	DESIGNED	AB					2
2	ISSUED FOR CONSENT	TB	JUNE 2025	DRAWN	BM					
				CHECKED	BLO					
				APPROVED	BF					



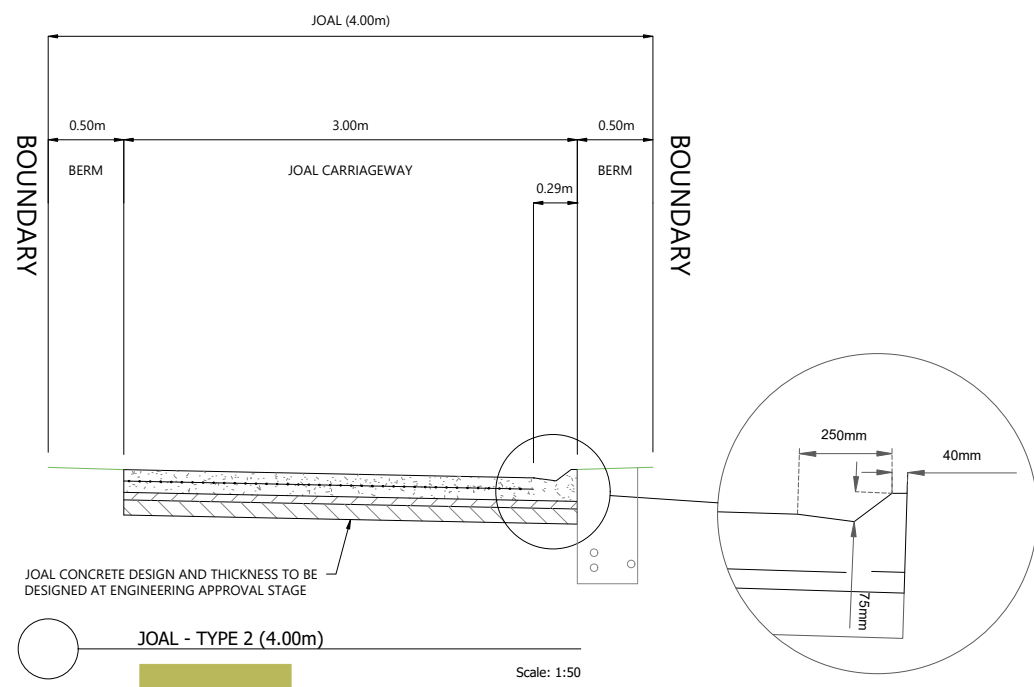
REVISION DETAILS		INT	DATE	SURVEYED	WOODS		BUILDING B, LEVEL 1 8 NUGENT ST, GRAFTON, AUCKLAND 1023 +64 9 308 9229 WOODS.CO.NZ		ARATAKI DEVELOPMENT - HAVELOCK NORTH TYPICAL CROSS SECTIONS ACCESS ROAD TYPE 1 & TYPE 2		STATUS			2
1	ISSUED FOR DISCUSSION	BM	APR 2025	DESIGNED	AB						SCALE	1:100 @ A3	ISSUED FOR CONSENT	
2	ISSUED FOR CONSENT	TB	JUNE 2025	DRAWN	BM						COUNCIL	HASTINGS DISTRICT COUNCIL		
				CHECKED	BLO						DWG NO	P24-244-00-2202-RD		
				APPROVED	BF									



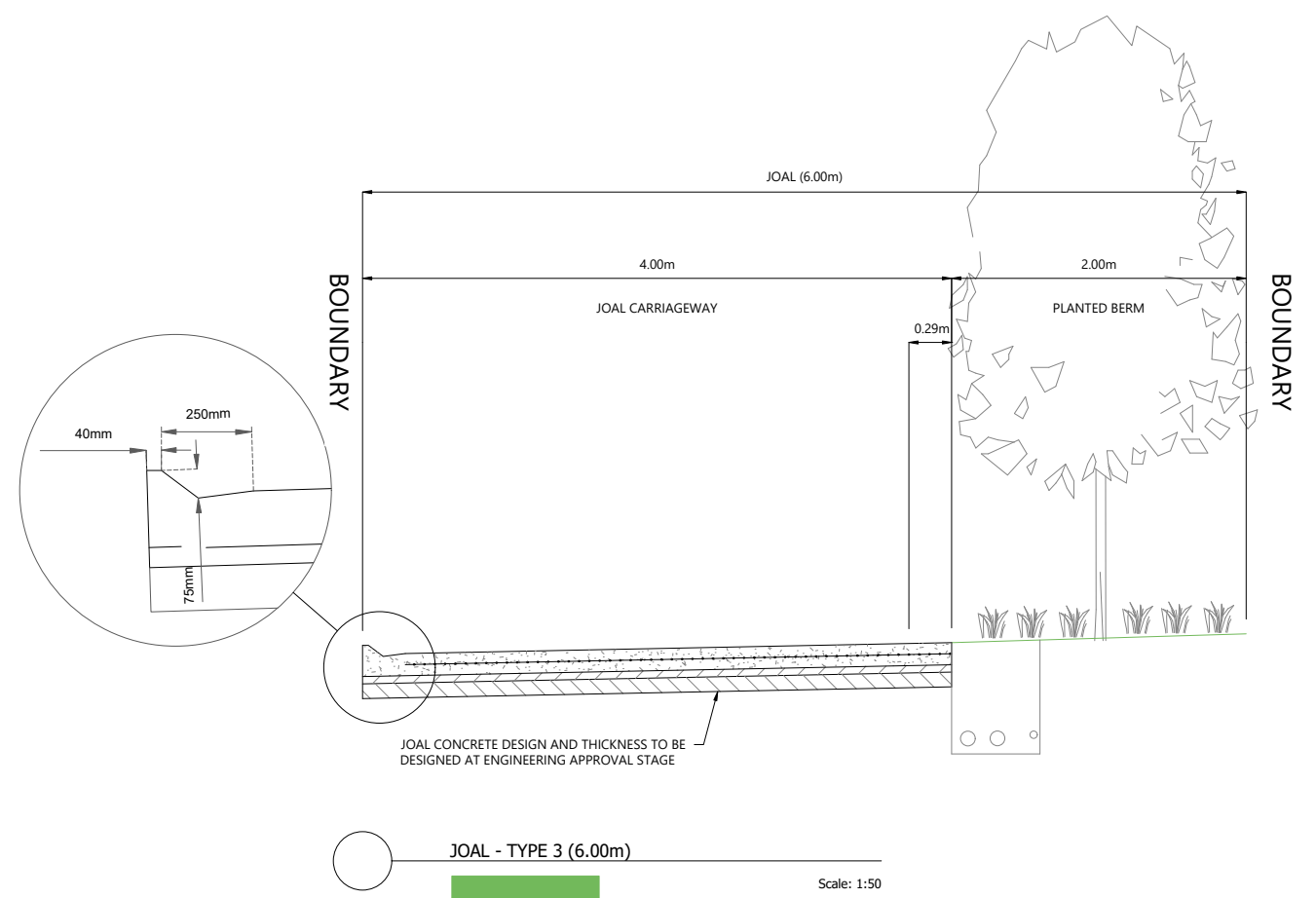
ACCESSWAY (10.00m)
Scale: 1:50



JOAL - TYPE 1 (3.00m)
Scale: 1:50




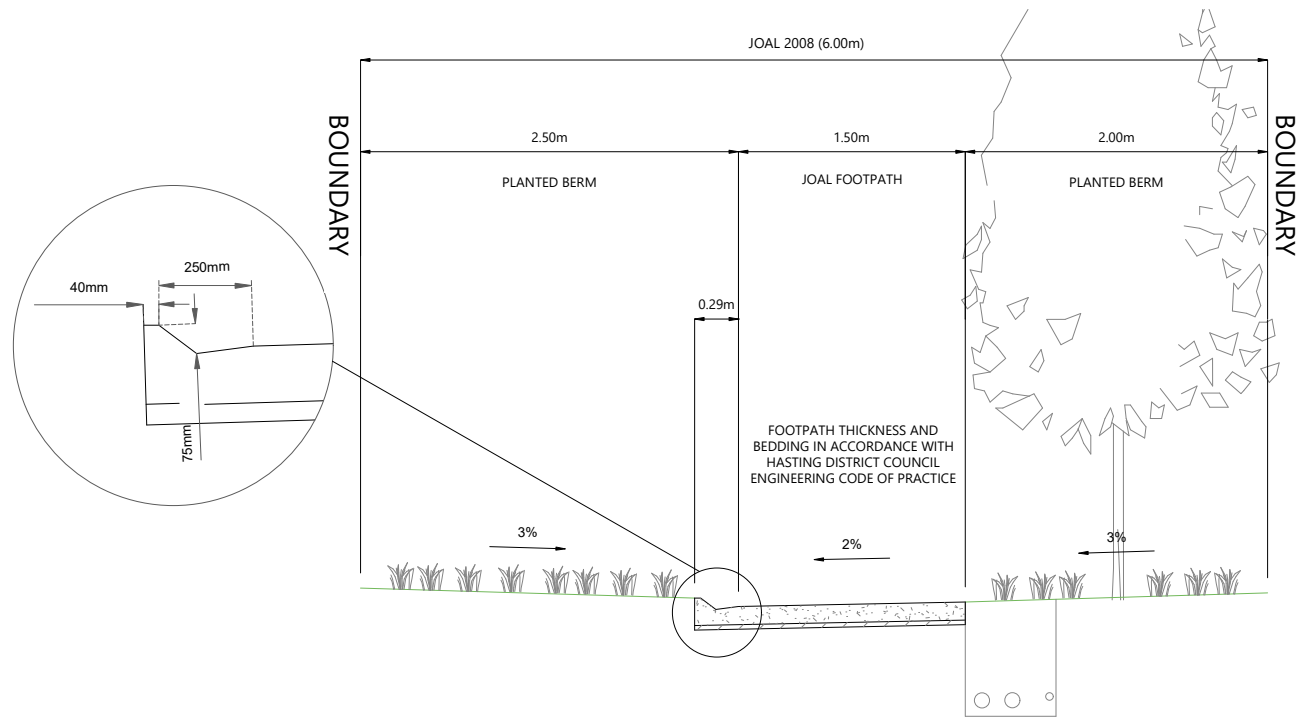
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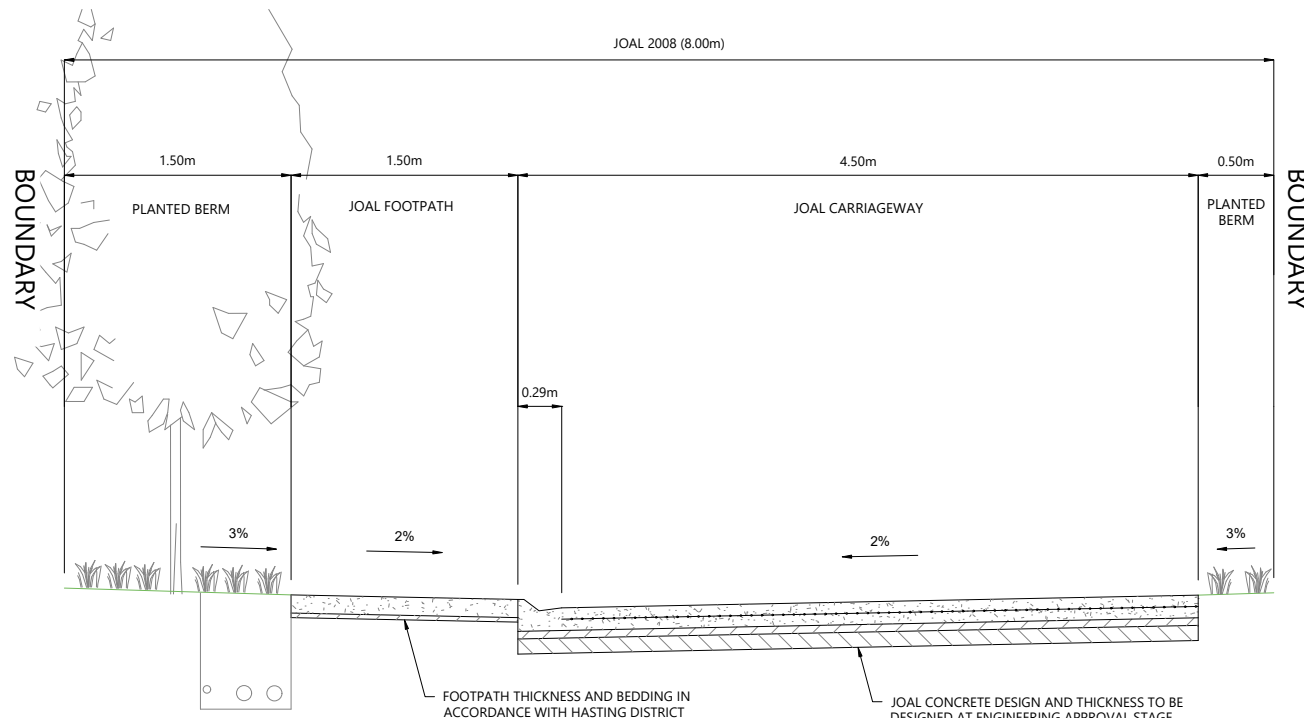
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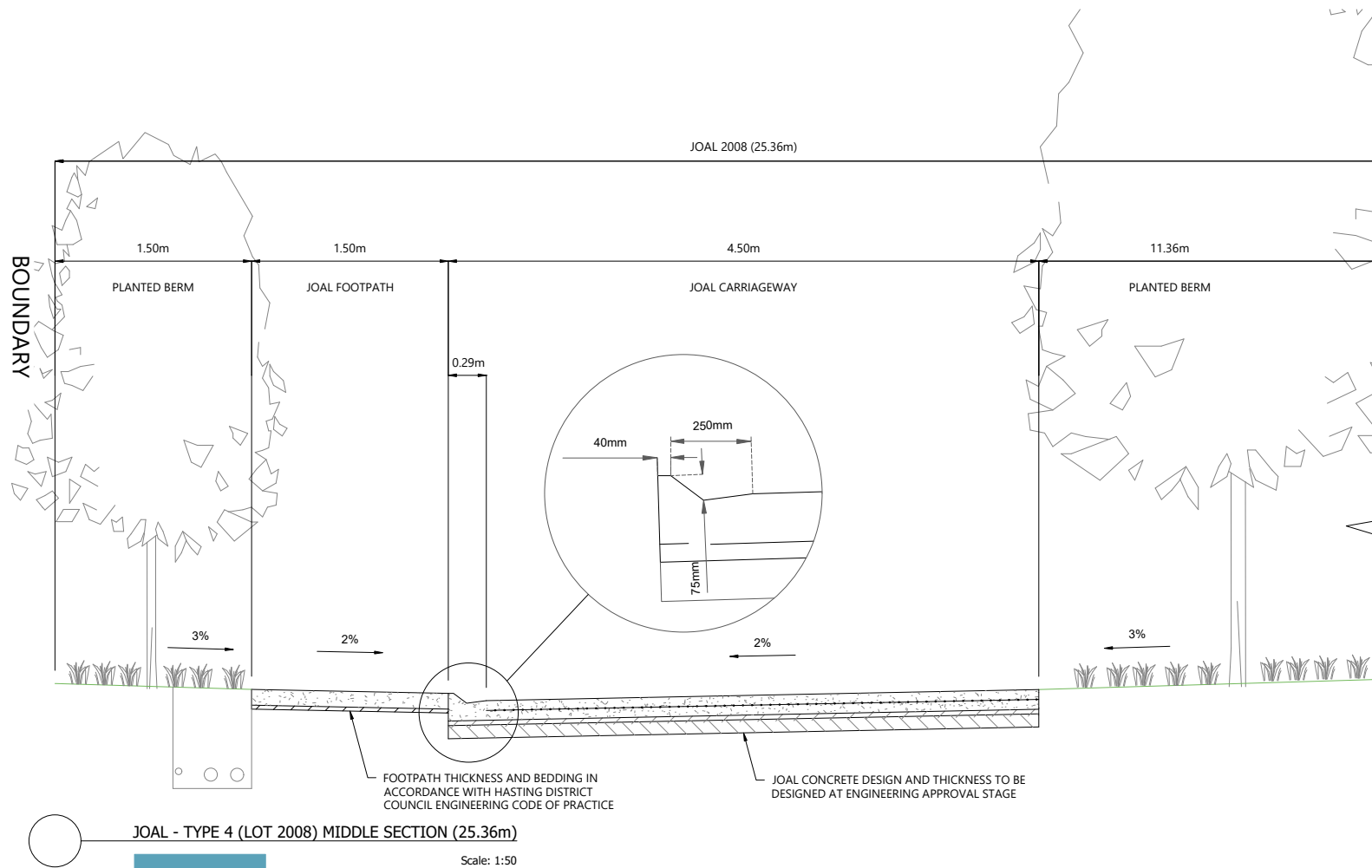
REVISION DETAILS						BUILDING B, LEVEL 1 8 NUGENT ST, GRAFTON, AUCKLAND 1023 +64 9 308 9229 WOODS.CO.NZ		ARATAKI DEVELOPMENT - HAVELOCK NORTH TYPICAL CROSS SECTIONS ACCESSWAY, JOAL TYPE 2 & TYPE 3			STATUS			REV 2
1	ISSUED FOR DISCUSSION	BM	APR 2025	DESIGNED							SCALE	1:50 @ A3	ISSUED FOR CONSENT	
2	ISSUED FOR CONSENT	TB	JUNE 2025	DRAWN							COUNCIL	HASTINGS DISTRICT COUNCIL		
				CHECKED							DWG NO	P24-244-00-2203-RD		
				APPROVED										



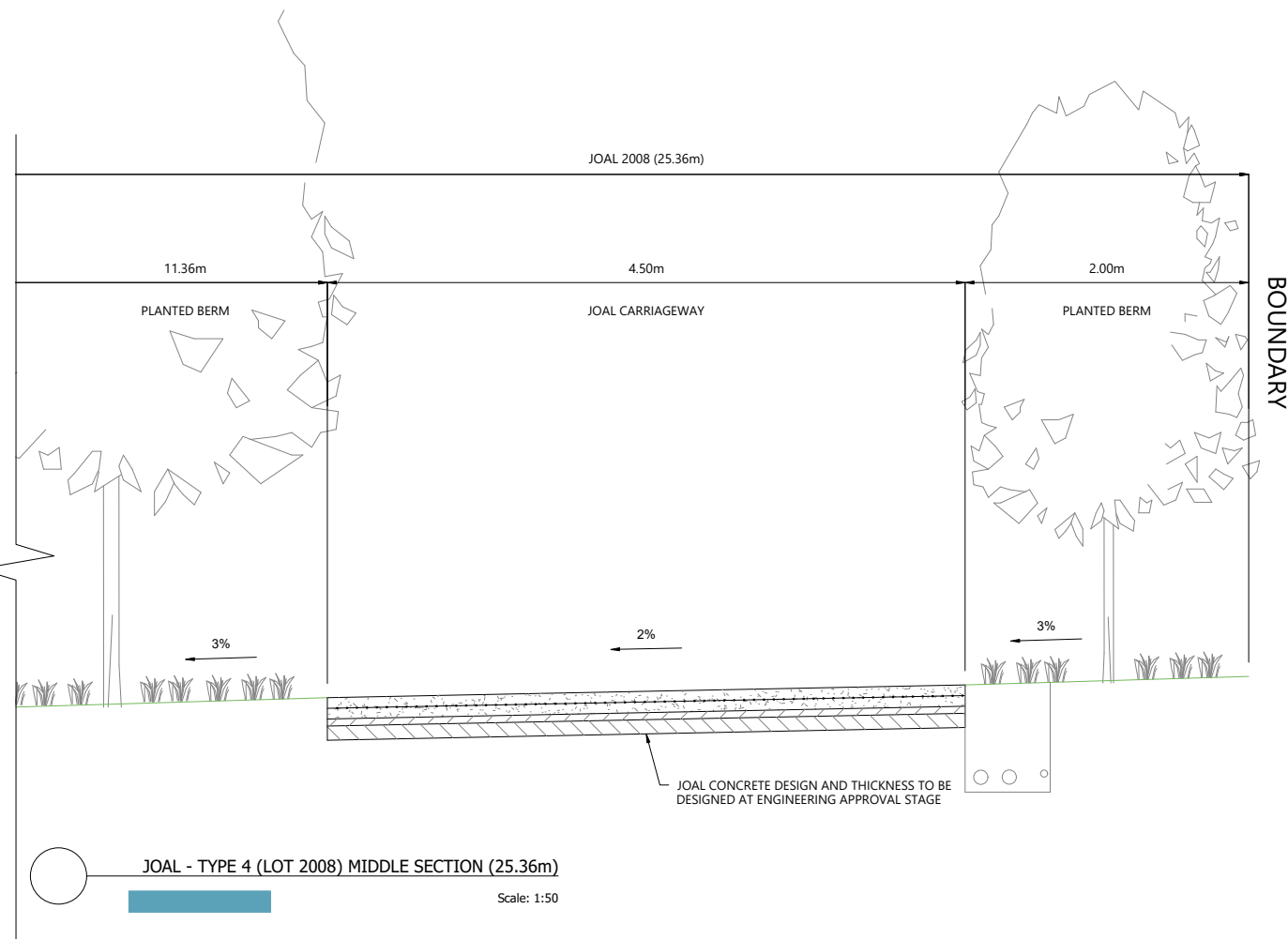
JOAL - TYPE 4 (LOT 2008) WESTERN SECTION (6.00m)
Scale: 1:50



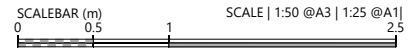
JOAL - TYPE 4 (LOT 2008) EASTERN SECTION (8.00m)
Scale: 1:50



JOAL - TYPE 4 (LOT 2008) MIDDLE SECTION (25.36m)
Scale: 1:50



JOAL - TYPE 4 (LOT 2008) MIDDLE SECTION (25.36m)
Scale: 1:50



REVISION DETAILS		INT	DATE	SURVEYED	WOODS
1	ISSUED FOR DISCUSSION	BM	APR 2025	DESIGNED	AB
2	ISSUED FOR CONSENT	TB	JUNE 2025	DRAWN	BM
				CHECKED	BLO
				APPROVED	BF



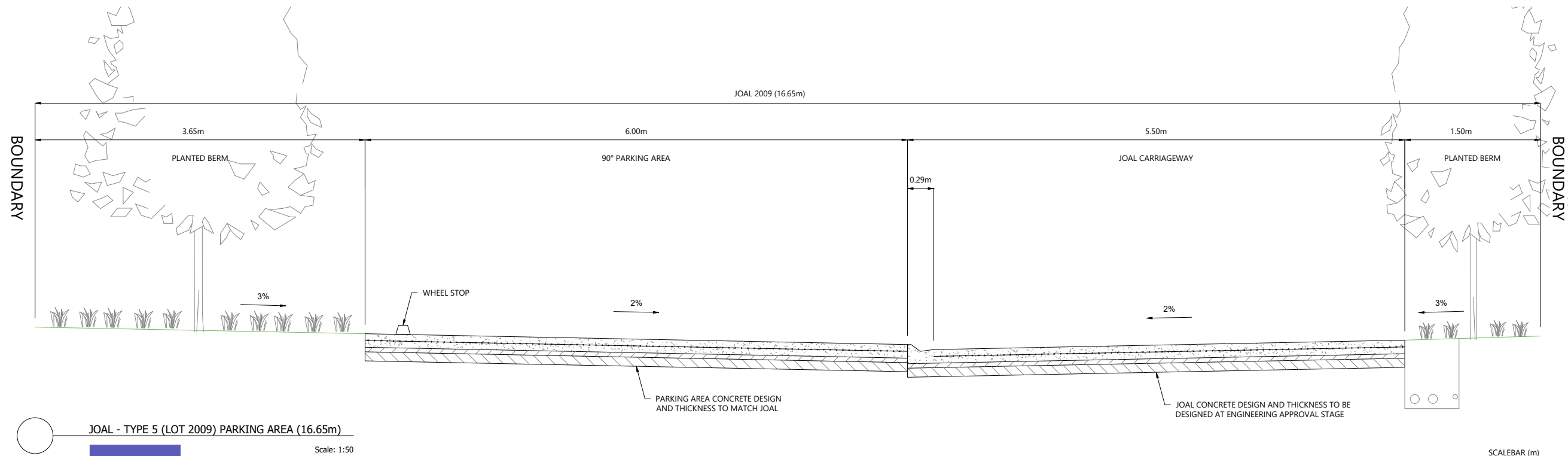
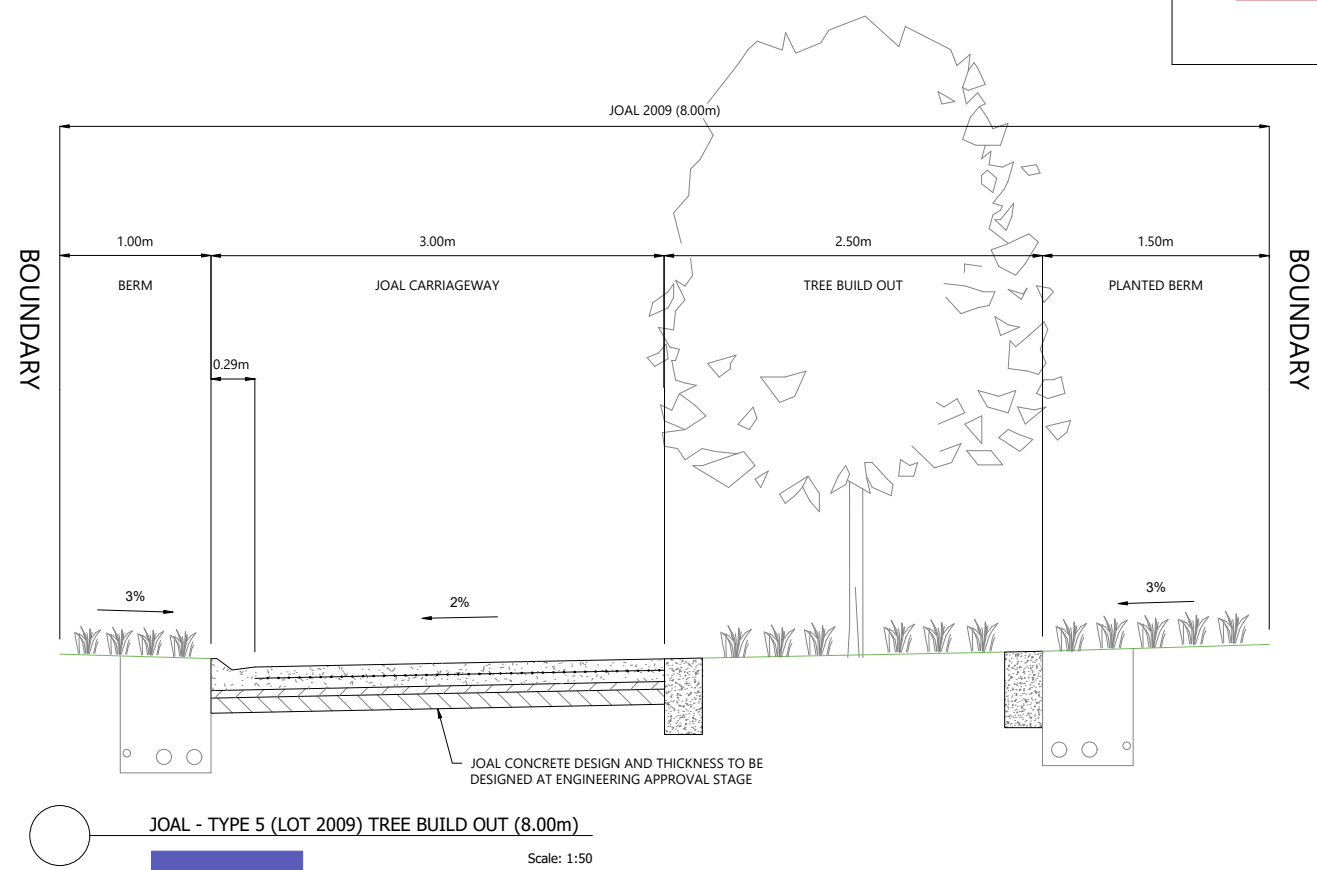
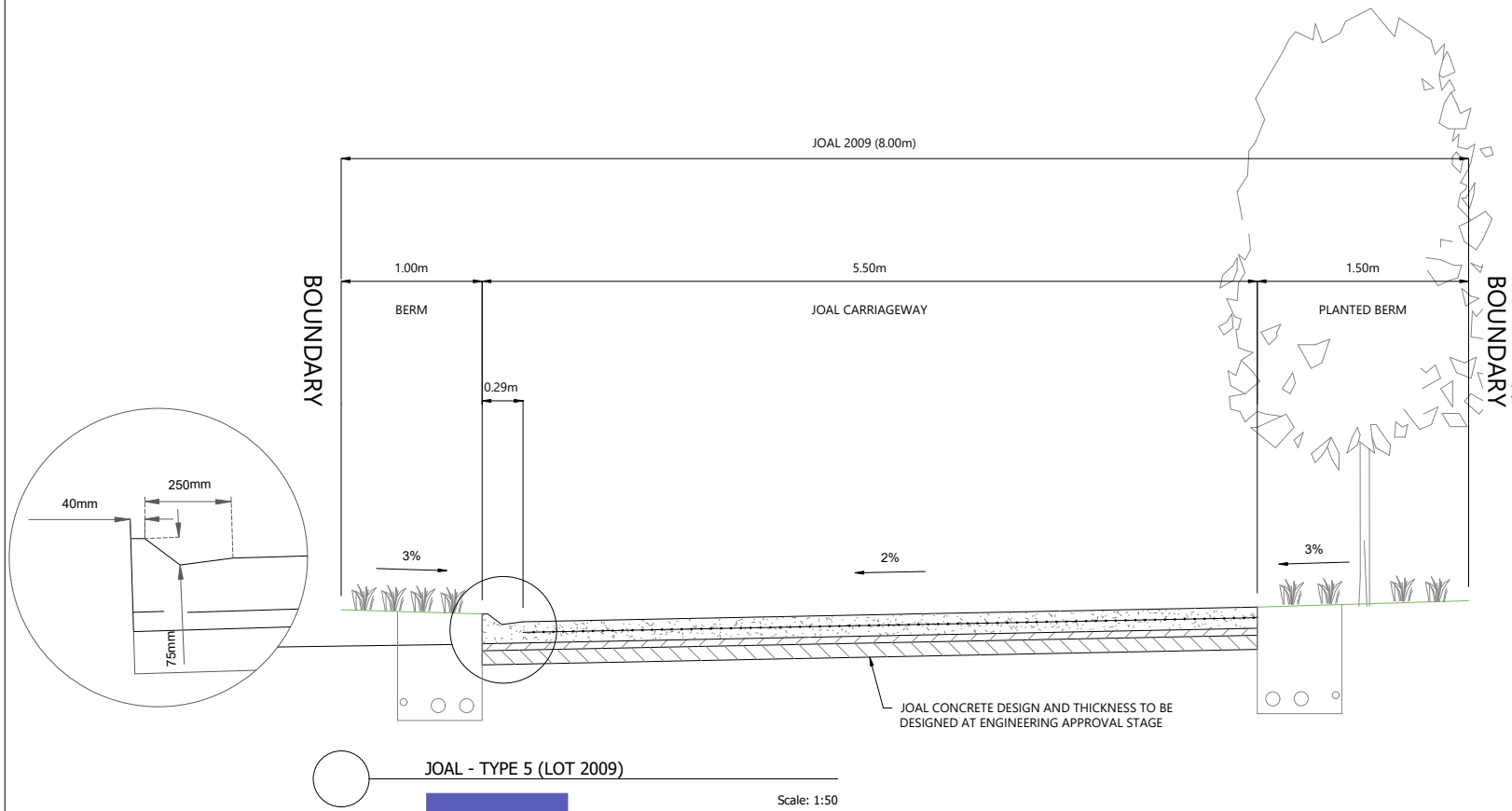
BUILDING B, LEVEL 1
8 NUGENT ST, GRAFTON,
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WOODS.CO.NZ




ARATAKI DEVELOPMENT - HAVELOCK NORTH

TYPICAL CROSS SECTIONS JOAL TYPE 4

STATUS	ISSUED FOR CONSENT	REV
SCALE	1:50 @ A3	2
COUNCIL	HASTINGS DISTRICT COUNCIL	
DWG NO	P24-244-00-2204-RD	



REVISION DETAILS		INT	DATE	SURVEYED	WOODS	
1	ISSUED FOR DISCUSSION	BM	APR 2025	DESIGNED	AB	
2	ISSUED FOR CONSENT	TB	JUNE 2025	DRAWN	BM	
				CHECKED	BLO	
				APPROVED	BF	



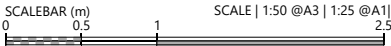
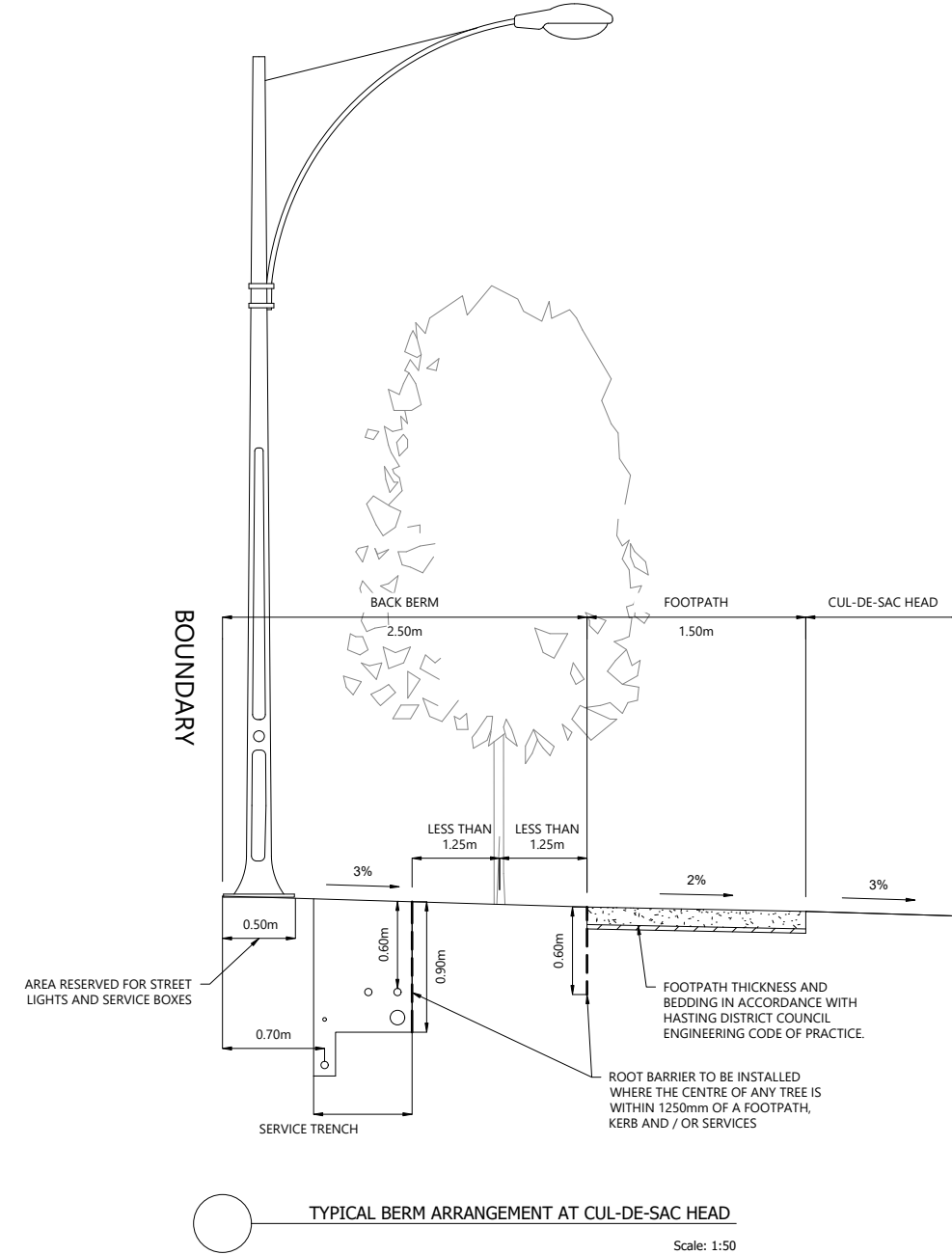
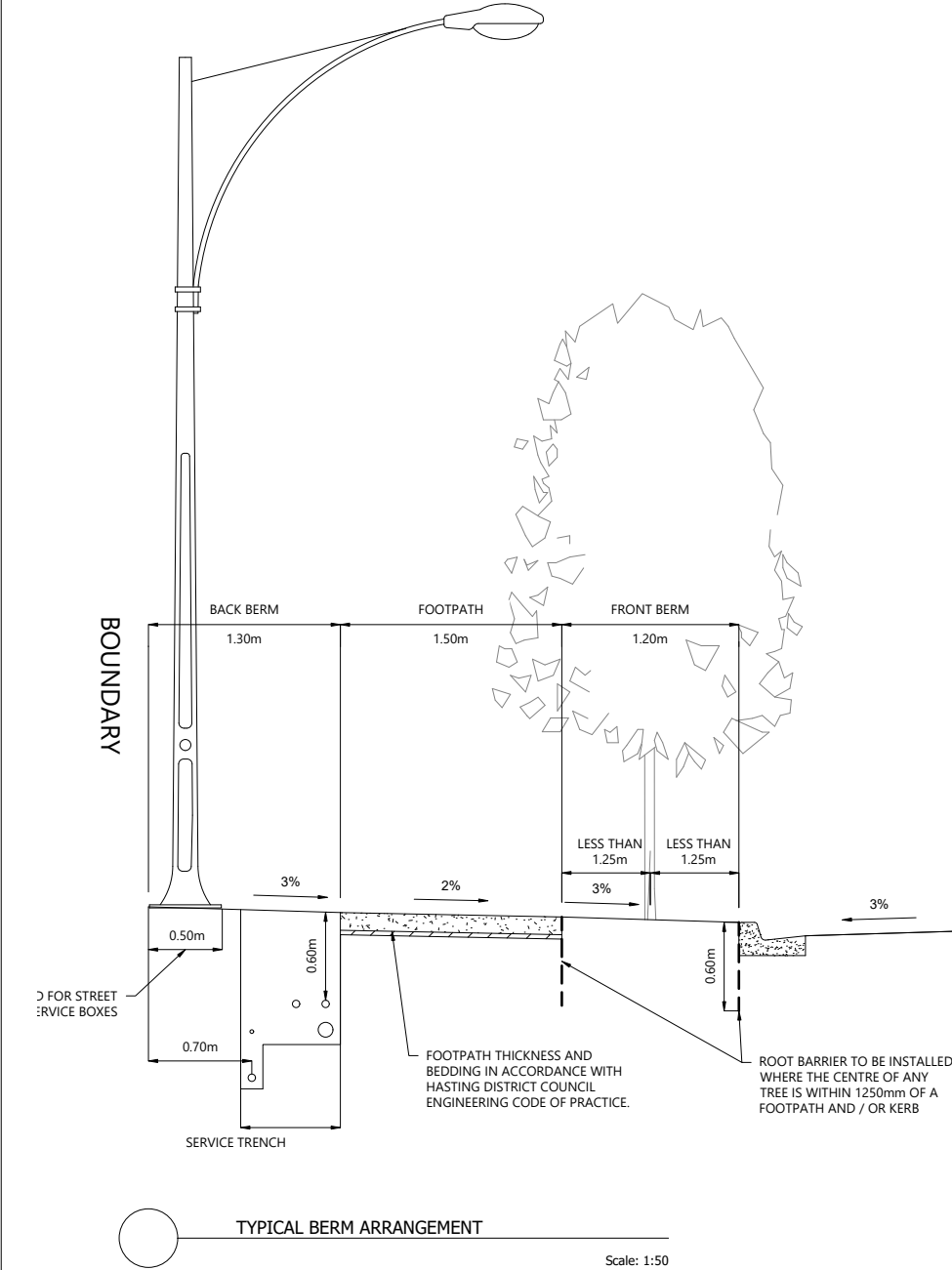
BUILDING B, LEVEL 1
8 NUGENT ST, GRAFTON,
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ARATAKI DEVELOPMENT - HAVELOCK NORTH

TYPICAL CROSS SECTIONS JOAL TYPE 5

STATUS	ISSUED FOR CONSENT	2
SCALE	1:50 @ A3	
COUNCIL	HASTINGS DISTRICT COUNCIL	
DWG NO	P24-244-00-2205-RD	



REVISION DETAILS		INT	DATE	SURVEYED	WOODS
1	ISSUED FOR DISCUSSION	BM	APR 2025	DESIGNED	AB
2	ISSUED FOR CONSENT	TB	JUNE 2025	DRAWN	BM
				CHECKED	BLO
				APPROVED	BF



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8 NUGENT ST, GRAFTON,
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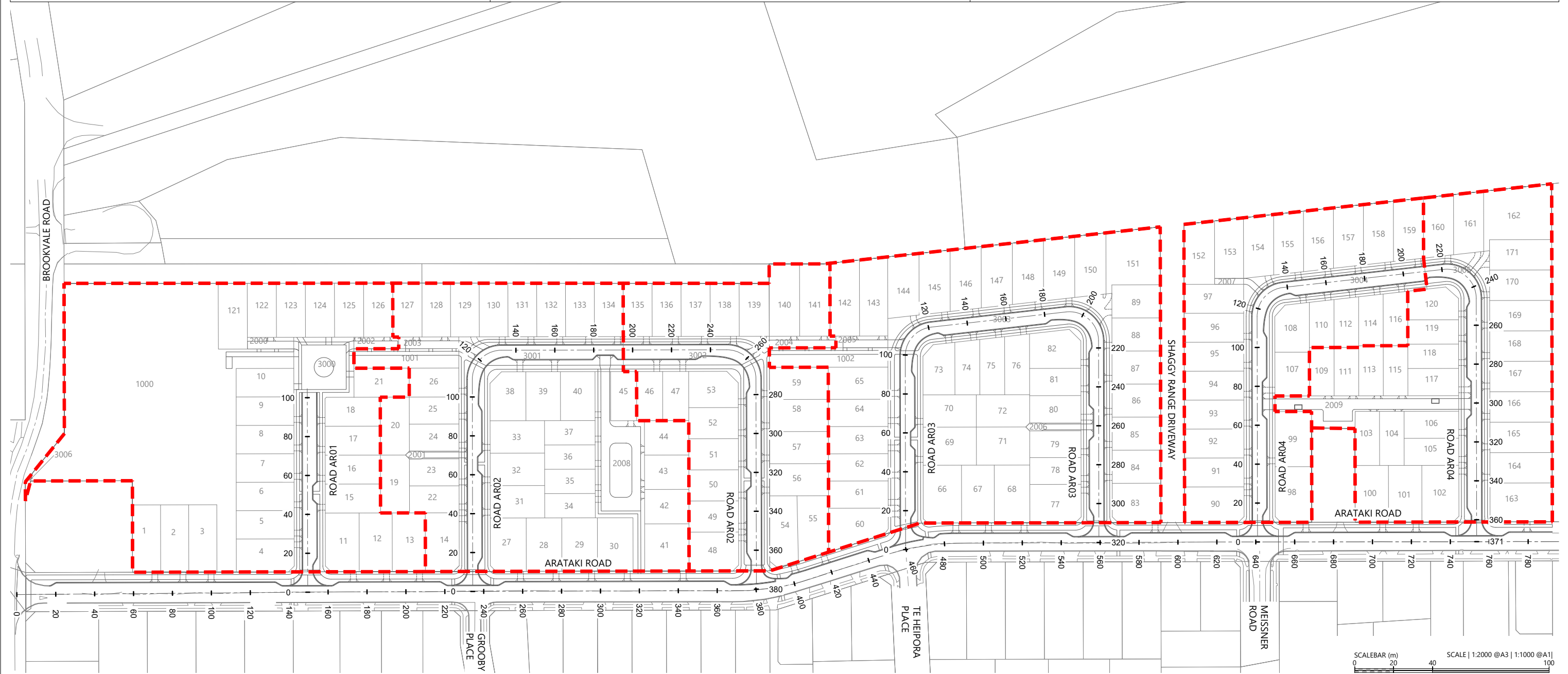
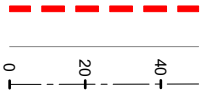
ARATAKI DEVELOPMENT - HAVELOCK NORTH

TYPICAL CROSS SECTIONS TYPICAL BERM ARRANGEMENT

STATUS	ISSUED FOR CONSENT	REV
SCALE	1:50 @ A3	2
COUNCIL	HASTINGS DISTRICT COUNCIL	
DWG NO	P24-244-00-2206-RD	

LEGEND

STAGE BOUNDARIES
PROPOSED BOUNDARIES
ROAD CENTRELINE



REVISION DETAILS		INT	DATE	SURVEYED	WOODS
1	ISSUED FOR DISCUSSION	TB	APR 2025	DESIGNED	AB
2	ISSUED FOR CONSENT	TB	JUNE 2025	DRAWN	TB
				CHECKED	BLO
				APPROVED	BF



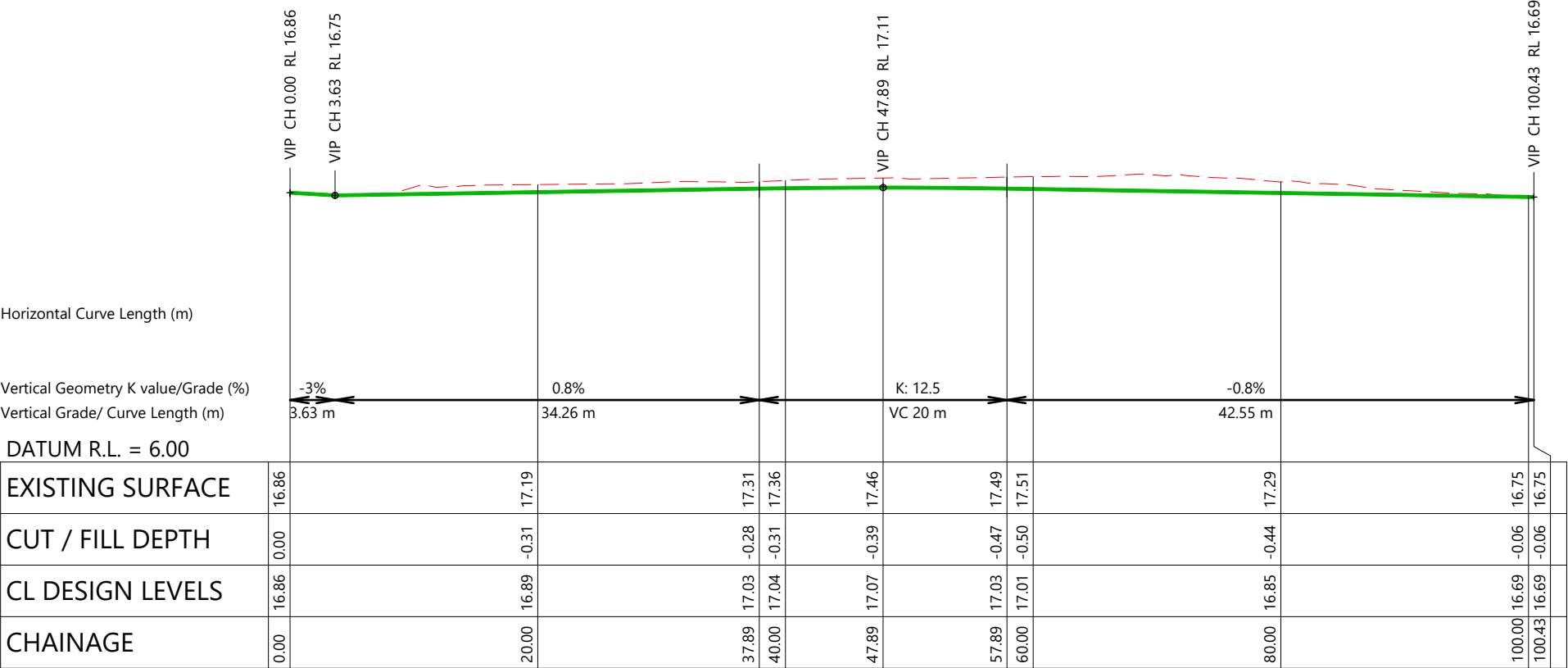
BUILDING B, LEVEL 1
8 NUGENT ST, GRAFTON,
AUCKLAND 1023
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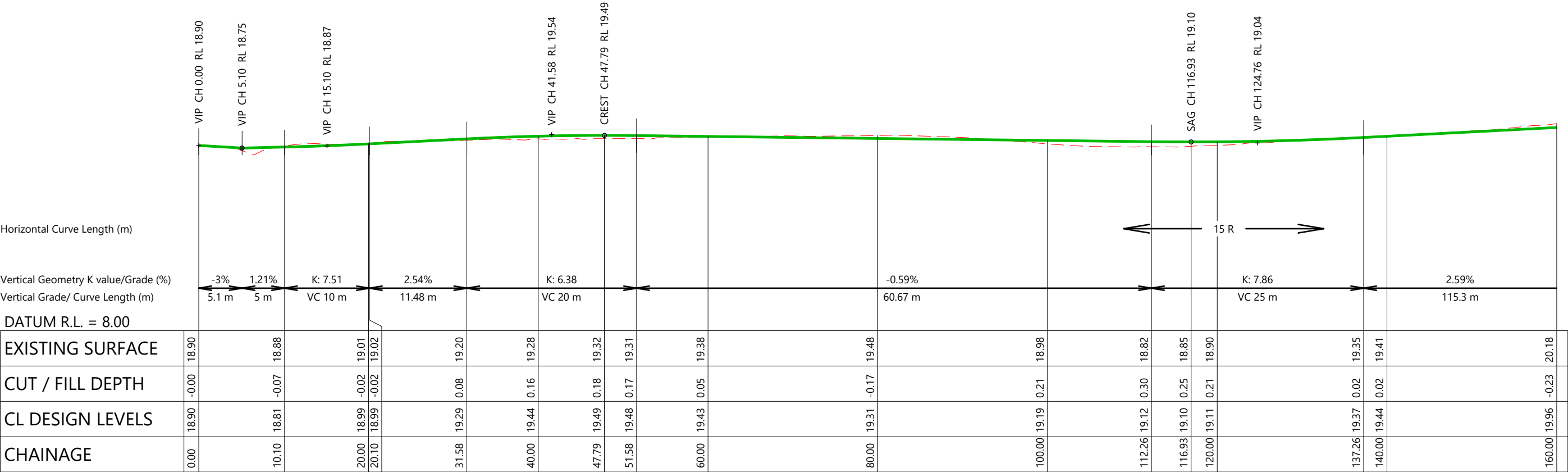
ARATAKI DEVELOPMENT - HAVELOCK NORTH
ROAD CENTRELINE PLAN



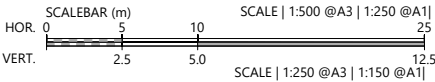
STATUS	ISSUED FOR CONSENT	REV
SCALE	1:2000 @ A3	2
COUNCIL	HASTINGS DISTRICT COUNCIL	
DWG NO	P24-244-00-2500-RD	



ROAD AR01 LONGITUDINAL SECTION
HORZ 1:500 VERT 1:250



ROAD AR02 LONGITUDINAL SECTION
HORZ 1:500 VERT 1:250



REVISION DETAILS		INT	DATE	SURVEYED	WOODS
1	ISSUED FOR DISCUSSION	TB	APR 2025	DESIGNED	AB
2	ISSUED FOR CONSENT	TB	JUNE 2025	DRAWN	TB
				CHECKED	BLO
				APPROVED	BF



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ARATAKI DEVELOPMENT - HAVELOCK NORTH

ROAD LONGSECTIONS - SHEET 1

STATUS	ISSUED FOR CONSENT	REV
SCALE	AS SHOWN	2
COUNCIL	HASTINGS DISTRICT COUNCIL	
DWG NO	P24-244-00-2501-RD	

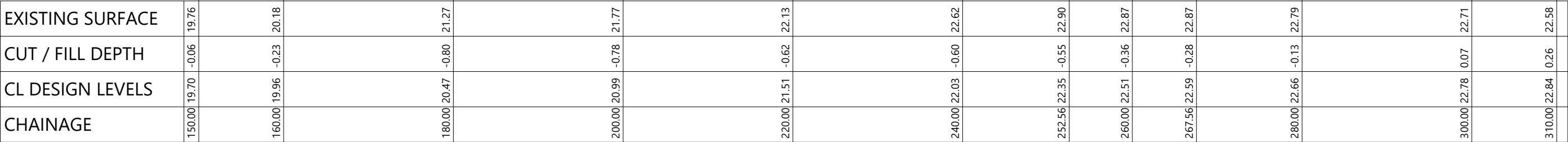


Horizontal Curve Length (m)

Vertical Geometry K value/Grade (%)

Vertical Grade/ Curve Length (m)

DATUM R.L. = 10.00



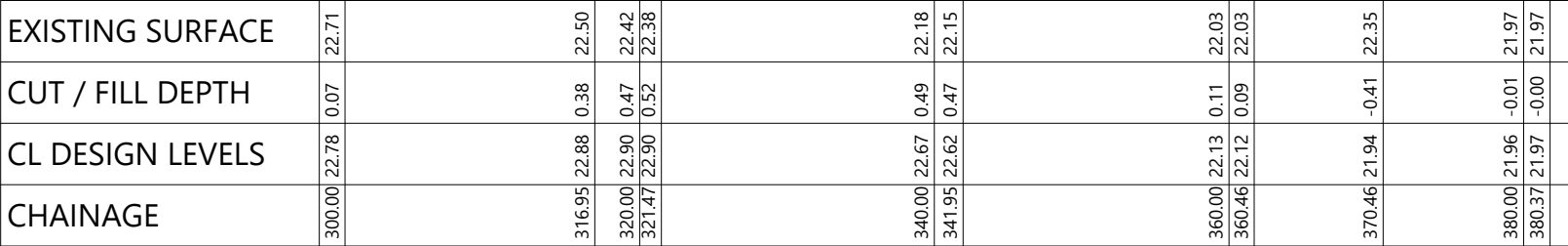
ROAD AR02 LONGITUDINAL SECTION
HORZ 1:500 VERT 1:250

Horizontal Curve Length (m)

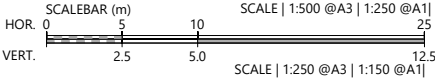
Vertical Geometry K value/Grade (%)

Vertical Grade/ Curve Length (m)

DATUM R.L. = 12.00



ROAD AR02 LONGITUDINAL SECTION
HORZ 1:500 VERT 1:250



REVISION DETAILS		INT	DATE	SURVEYED	WOODS
1	ISSUED FOR DISCUSSION	TB	APR 2025	DESIGNED	AB
2	ISSUED FOR CONSENT	TB	JUNE 2025	DRAWN	TB
				CHECKED	BLO
				APPROVED	BF



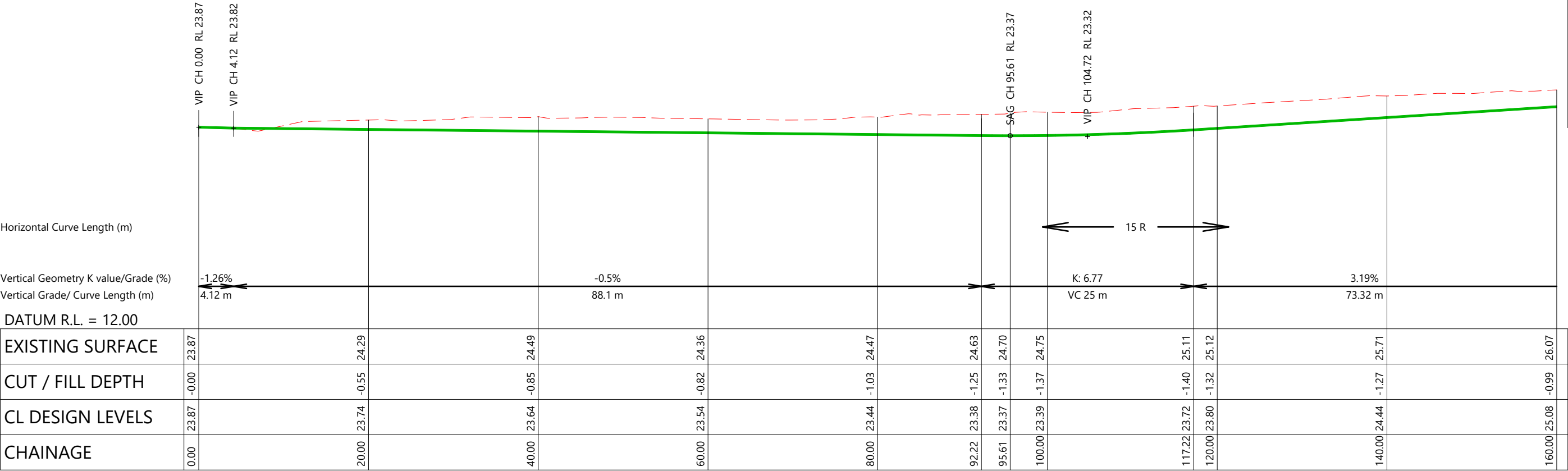
BUILDING B, LEVEL 1
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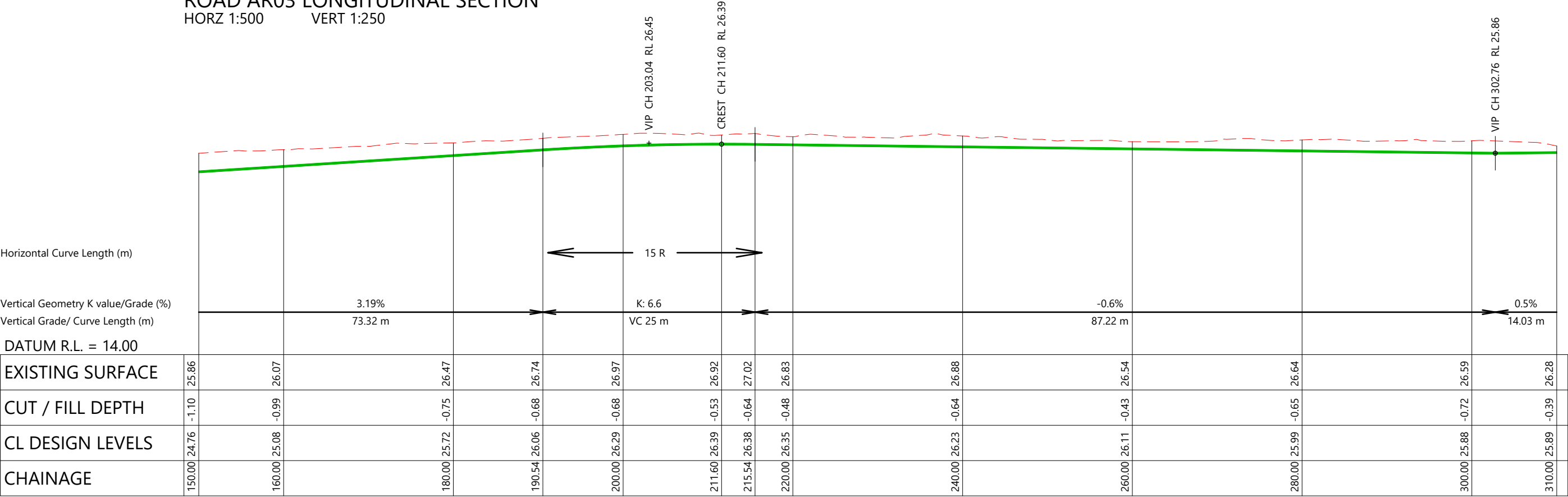
ARATAKI DEVELOPMENT - HAVELOCK NORTH

ROAD LONGSECTIONS - SHEET 2

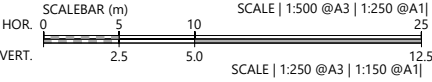
STATUS	ISSUED FOR CONSENT	REV
SCALE	AS SHOWN	2
COUNCIL	HASTINGS DISTRICT COUNCIL	
DWG NO	P24-244-00-2502-RD	



ROAD AR03 LONGITUDINAL SECTION
HORZ 1:500 VERT 1:250



ROAD AR03 LONGITUDINAL SECTION
HORZ 1:500 VERT 1:250



REVISION DETAILS		INT	DATE	SURVEYED	WOODS	
1	ISSUED FOR DISCUSSION	TB	APR 2025	DESIGNED	AB	
2	ISSUED FOR CONSENT	TB	JUNE 2025	DRAWN	TB	
				CHECKED	BLO	
				APPROVED	BF	



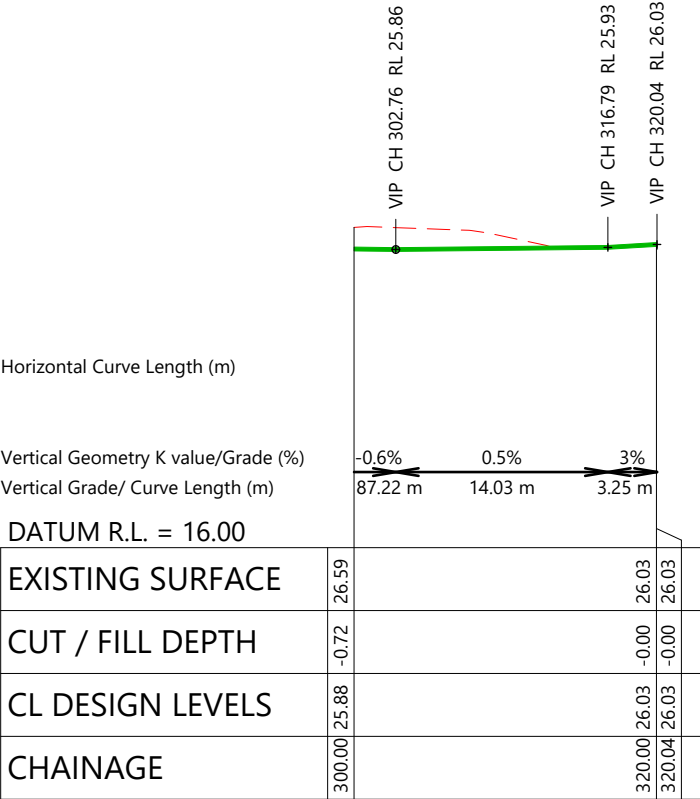
BUILDING B, LEVEL 1
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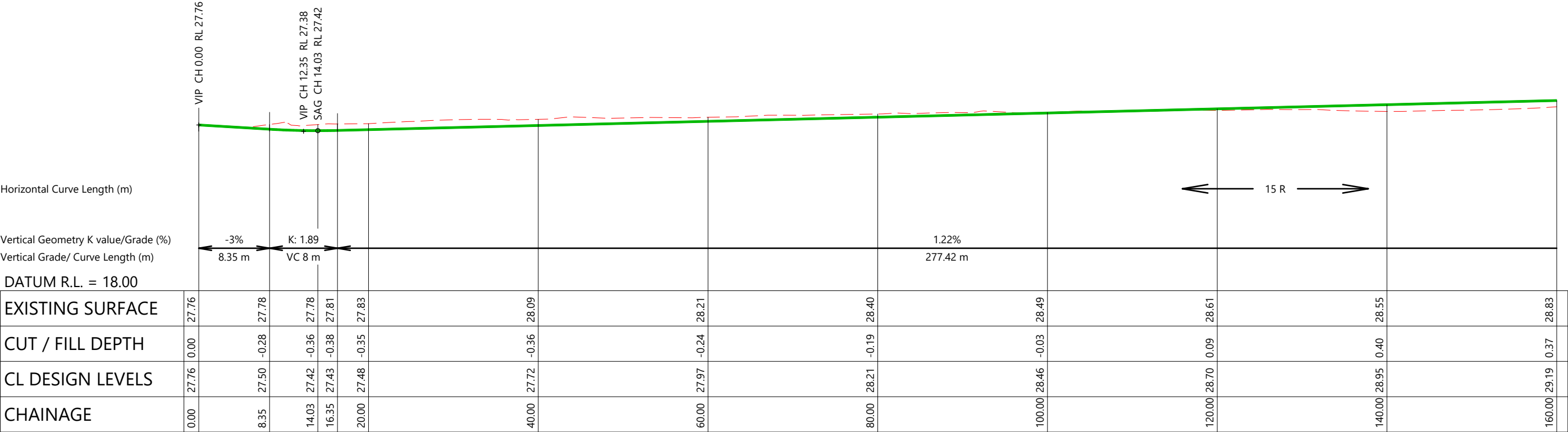
ARATAKI DEVELOPMENT - HAVELOCK NORTH

ROAD LONGSECTIONS - SHEET 3

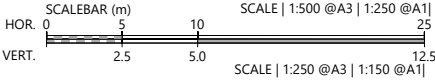
STATUS	ISSUED FOR CONSENT	REV
SCALE	AS SHOWN	2
COUNCIL	HASTINGS DISTRICT COUNCIL	
DWG NO	P24-244-00-2503-RD	



ROAD AR03 LONGITUDINAL SECTION
HORZ 1:500 VERT 1:250



ROAD AR04 LONGITUDINAL SECTION
HORZ 1:500 VERT 1:250



REVISION DETAILS		INT	DATE	SURVEYED	WOODS
1	ISSUED FOR DISCUSSION	TB	APR 2025	DESIGNED	AB
2	ISSUED FOR CONSENT	TB	JUNE 2025	DRAWN	TB
				CHECKED	BLO
				APPROVED	BF



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ARATAKI DEVELOPMENT - HAVELOCK NORTH

ROAD LONGSECTIONS - SHEET 4

STATUS	ISSUED FOR CONSENT	REV
SCALE	AS SHOWN	2
COUNCIL	HASTINGS DISTRICT COUNCIL	
DWG NO	P24-244-00-2504-RD	



Horizontal Curve Length (m)

Vertical Geometry K value/Grade (%)
Vertical Grade/ Curve Length (m)

DATUM R.L. = 18.00

EXISTING SURFACE	28.63		28.83		29.25		30.31		30.59		31.19		31.07		30.79		30.56		30.58		30.60		30.57
CUT / FILL DEPTH	0.44		0.37		0.19		-0.62		-0.66		-1.02		-0.65		-0.12		0.27		0.31		0.30		0.30
CL DESIGN LEVELS	29.07		29.19		29.44		29.68		29.93		30.17		30.42		30.66		30.83		30.88		30.89		30.87
CHAINAGE	150.00		160.00		180.00		200.00		220.00		240.00		260.00		280.00		293.76		300.00		303.99		310.00

ROAD AR04 LONGITUDINAL SECTION
HORZ 1:500 VERT 1:250

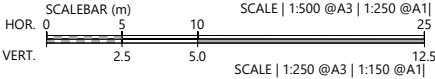
Horizontal Curve Length (m)

Vertical Geometry K value/Grade (%)
Vertical Grade/ Curve Length (m)

DATUM R.L. = 20.00

EXISTING SURFACE	30.58		30.60		30.47		30.25		30.27		30.28		30.18		30.16		29.96		29.93
CUT / FILL DEPTH	0.31		0.30		0.27		0.11		-0.13		-0.56		-0.57		-0.52		-0.27		0.02
CL DESIGN LEVELS	30.88		30.89		30.74		30.36		30.14		29.72		29.62		29.63		29.69		29.95
CHAINAGE	300.00		303.99		320.00		333.76		340.00		351.73		357.70		360.00		362.73		371.27

ROAD AR04 LONGITUDINAL SECTION
HORZ 1:500 VERT 1:250



REVISION DETAILS		INT	DATE	SURVEYED	WOODS
1	ISSUED FOR DISCUSSION	TB	APR 2025	DESIGNED	AB
2	ISSUED FOR CONSENT	TB	JUNE 2025	DRAWN	TB
				CHECKED	BLO
				APPROVED	BF



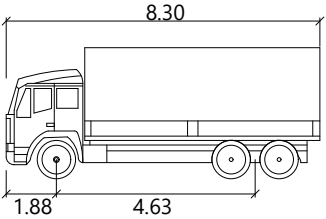
BUILDING B, LEVEL 1
8 NUGENT ST, GRAFTON,
AUCKLAND 1023
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WOODS.CO.NZ



ARATAKI DEVELOPMENT - HAVELOCK NORTH

ROAD LONGSECTIONS - SHEET 5

STATUS	ISSUED FOR CONSENT	REV
SCALE	AS SHOWN	2
COUNCIL	HASTINGS DISTRICT COUNCIL	
DWG NO	P24-244-00-2505-RD	

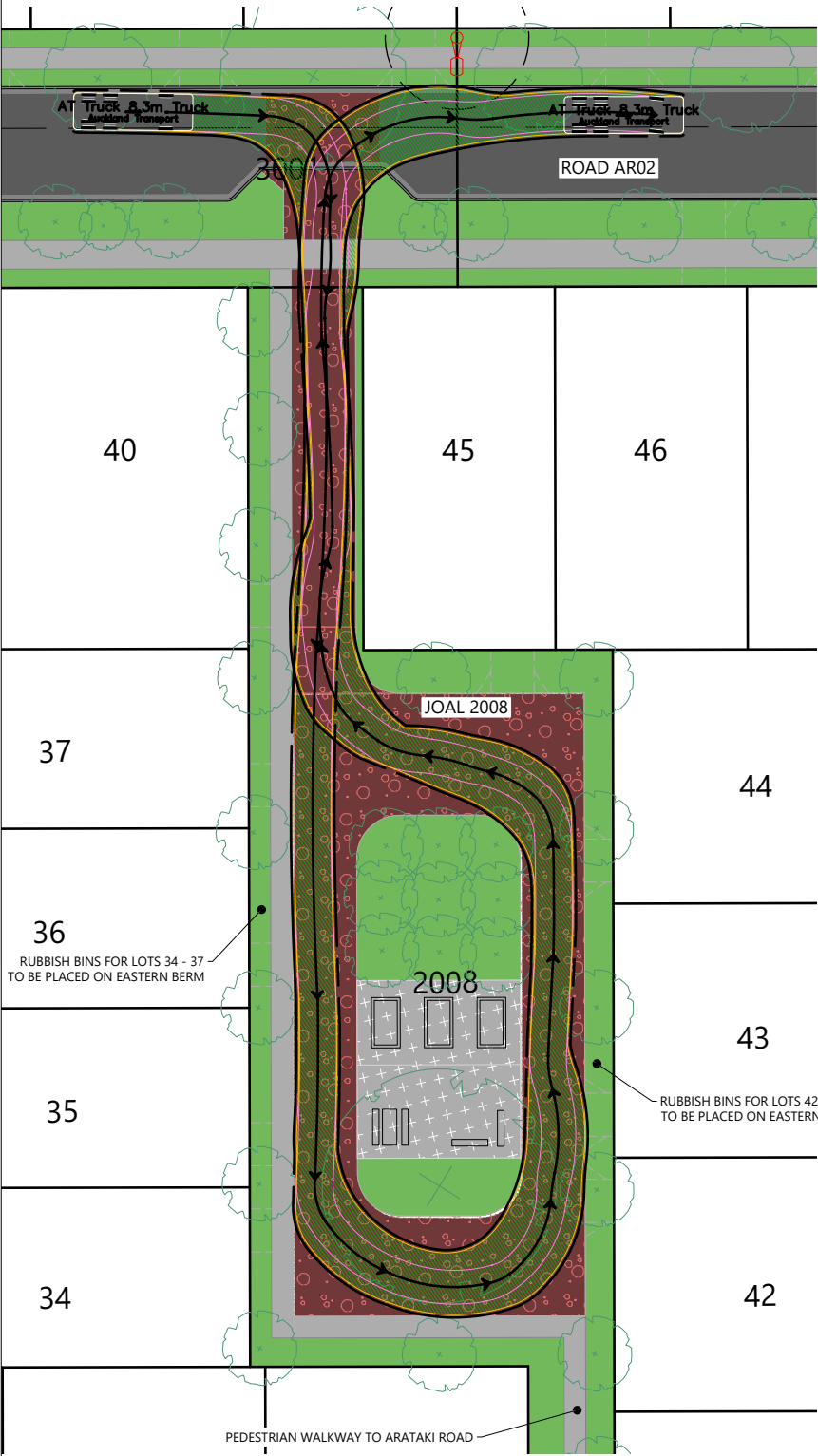


AT Truck 8.3m Truck

	width	2.55	meters
	Track	2.55	
	Lock to Lock Time	6.0	
	Steering Angle	SA1	

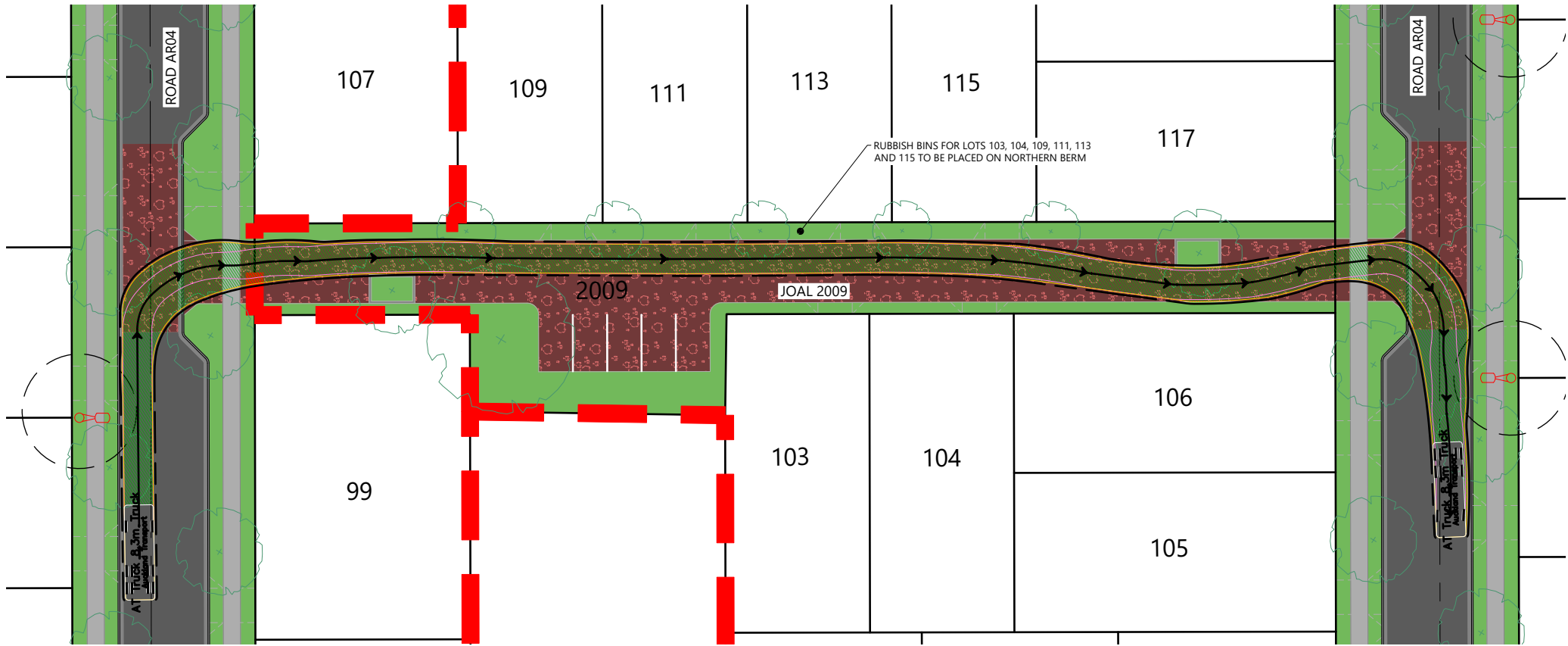
LEGEND

- PROPOSED ASPHALT PAVING
- PROPOSED BERM
- PROPOSED FOOTPATH
- PROPOSED INFORMAL PATH
- PROPOSED SHARED PATH
- PROPOSED DECORATIVE CONCRETE
- EXISTING STREETLIGHT AND 5m SEPARATION
- RELOCATED STREETLIGHT AND 5m SEPARATION
- PROPOSED STREETLIGHT AND 5m SEPARATION
- PROPOSED TREE
- EXISTING TREES TO BE RETAINED



RUBBISH TRUCK TRACKING THROUGH JOAL 2008

SCALE 1:250(A1) 1:500(A3)



RUBBISH TRUCK TRACKING THROUGH JOAL 2009

SCALE 1:250(A1) 1:500(A3)

REVISION DETAILS	INT	DATE	SURVEYED	WOODS
2 ISSUED FOR CONSENT	TB	JUNE 2025	DESIGNED	AB
			DRAWN	TB
			CHECKED	BLO
			APPROVED	BF

BUILDING B, LEVEL 1
8 NUGENT ST, GRAFTON,
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ARATAKI DEVELOPMENT - HAVELOCK NORTH
VEHICLE PATHS - RUBBISH TRUCKS THROUGH JOALS



STATUS	ISSUED FOR CONSENT	REV
SCALE	1:500 @ A3	2
COUNCIL	HASTINGS DISTRICT COUNCIL	
DWG NO	P24-244-00-2700-RD	

LEGEND

PROPOSED ASPHALT PAVING

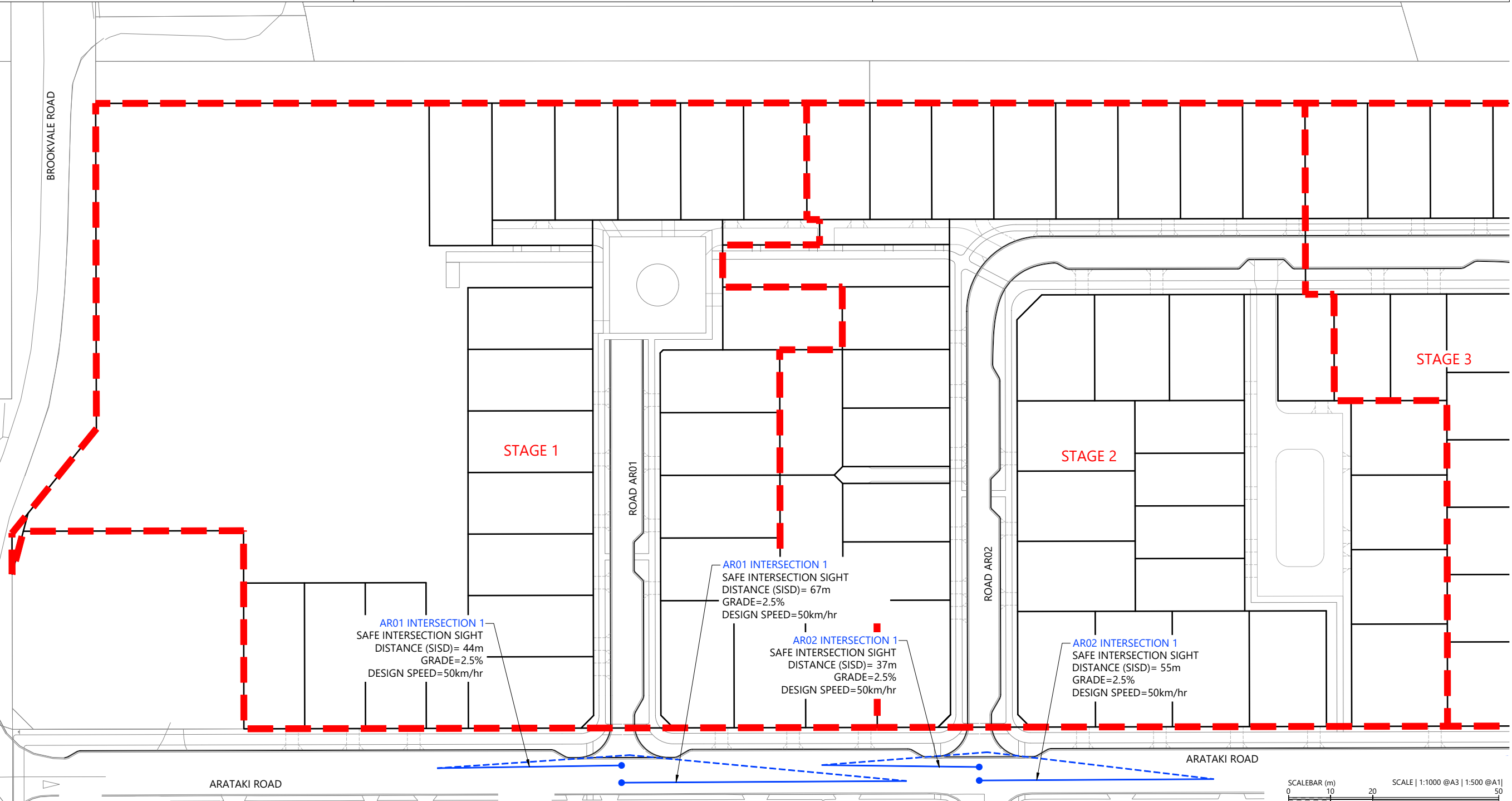
PROPOSED BERM

PROPOSED FOOTPATH



NOTES

1. ALL WORKS & MATERIALS TO COMPLY WITH AUCKLAND TRANSPORT STANDARDS. ANY AMBIGUITY BETWEEN THESE DRAWINGS & THE STANDARDS IS TO BE REFERRED TO THE ENGINEER FOR CLARIFICATION.
2. ALL KERB & CHANNEL / NIB TO BE SLIP-FORM, 25MPA FIBRE REINFORCED.
3. ALL CATCHPITS TO BE SEMI-RECESSED 800X500 WITH 1.2M LINTEL UNLESS SPECIFIED OTHERWISE.
4. FOOTPATHS TO BE CONSTRUCTED AS PER THE TYPICAL CROSS SECTIONS.
5. PRAM CROSSINGS TO BE CONSTRUCTED AS PER AUCKLAND TRANSPORT STANDARDS.
6. VEHICLE CROSSINGS SHOWN ON THIS PLAN ARE FOR PLANNING PURPOSES ONLY & WILL NOT BE CONSTRUCTED UNLESS OTHERWISE NOTED.
7. ALL LINE MARKING & ROAD SIGNAGE IS TO BE CONSTRUCTED AS PER NEW ZEALAND TRANSPORT AGENCY MANUAL OF SIGNS & MARKINGS.



REVISION DETAILS		INT	DATE	SURVEYED	WOODS		BUILDING B, LEVEL 1 8 NUGENT ST, GRAFTON, AUCKLAND 1023 +64 9 308 9229 WOODS.CO.NZ		ARATAKI DEVELOPMENT - HAVELOCK NORTH				STATUS	ISSUED FOR CONSENT	REV
2	ISSUED FOR CONSENT	TB	JUNE 2025	DESIGNED	AB				SAFE INTERSECTION SIGHT DISTANCE PLAN - SHEET 1				SCALE	1:1000 @ A3	2
				DRAWN	TB								COUNCIL	HASTINGS DISTRICT COUNCIL	
				CHECKED	BLO								DWG NO	P24-244-00-2751-RD	
				APPROVED	BF										

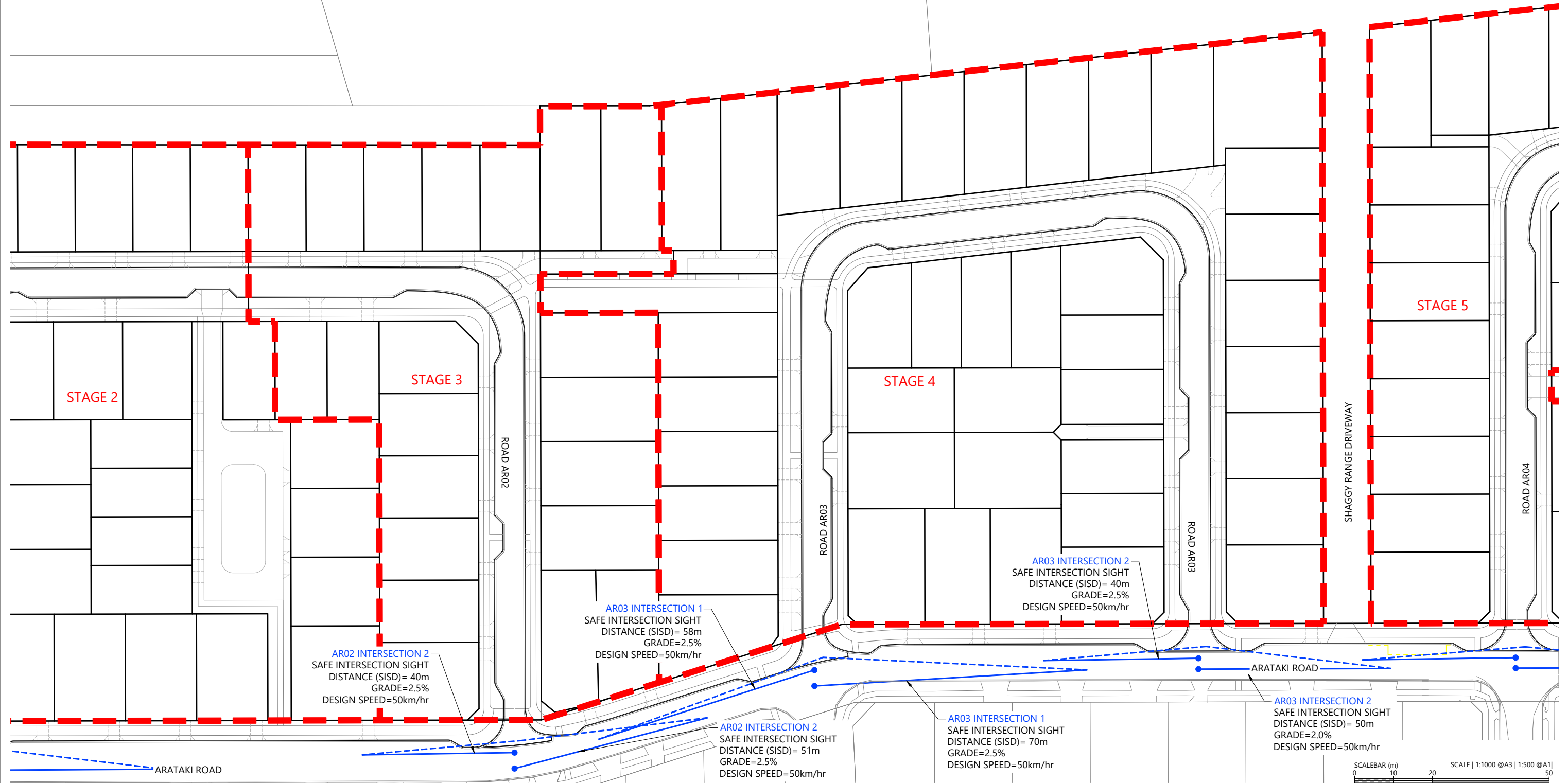
LEGEND

PROPOSED ASPHALT PAVING
PROPOSED BERM
PROPOSED FOOTPATH



NOTES

1. ALL WORKS & MATERIALS TO COMPLY WITH AUCKLAND TRANSPORT STANDARDS. ANY AMBIGUITY BETWEEN THESE DRAWINGS & THE STANDARDS IS TO BE REFERRED TO THE ENGINEER FOR CLARIFICATION.
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5. PRAM CROSSINGS TO BE CONSTRUCTED AS PER AUCKLAND TRANSPORT STANDARDS.
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REVISION DETAILS		INT	DATE	SURVEYED	WOODS
2	ISSUED FOR CONSENT	TB	JUNE 2025	DESIGNED	AB
				DRAWN	TB
				CHECKED	BLO
				APPROVED	BF

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ARATAKI DEVELOPMENT - HAVELOCK NORTH
SAFE INTERSECTION SIGHT DISTANCE PLAN - SHEET 2

STATUS	ISSUED FOR CONSENT	REV
SCALE	1:1000 @ A3	2
COUNCIL	HASTINGS DISTRICT COUNCIL	
DWG NO	P24-244-00-2752-RD	

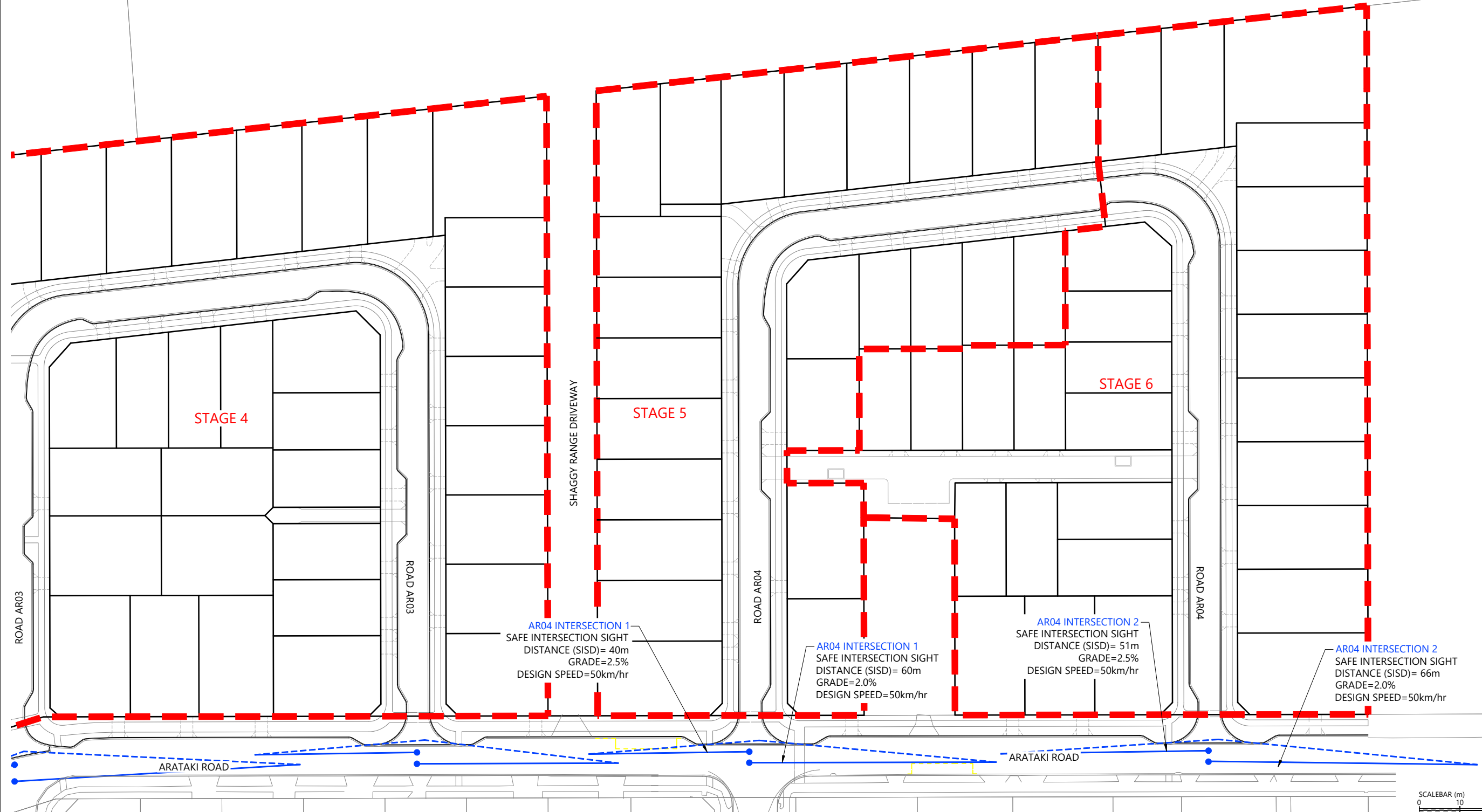
LEGEND

PROPOSED ASPHALT PAVING
PROPOSED BERM
PROPOSED FOOTPATH



NOTES

1. ALL WORKS & MATERIALS TO COMPLY WITH AUCKLAND TRANSPORT STANDARDS. ANY AMBIGUITY BETWEEN THESE DRAWINGS & THE STANDARDS IS TO BE REFERRED TO THE ENGINEER FOR CLARIFICATION.
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5. PRAM CROSSINGS TO BE CONSTRUCTED AS PER AUCKLAND TRANSPORT STANDARDS.
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REVISION DETAILS		INT	DATE	SURVEYED	WOODS
2	ISSUED FOR CONSENT	TB	JUNE 2025	DESIGNED	AB
				DRAWN	TB
				CHECKED	BLO
				APPROVED	BF



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ARATAKI DEVELOPMENT - HAVELOCK NORTH
SAFE INTERSECTION SIGHT DISTANCE PLAN - SHEET 3



STATUS	ISSUED FOR CONSENT	REV
SCALE	1:1000 @ A3	2
COUNCIL	HASTINGS DISTRICT COUNCIL	
DWG NO	P24-244-00-2753-RD	



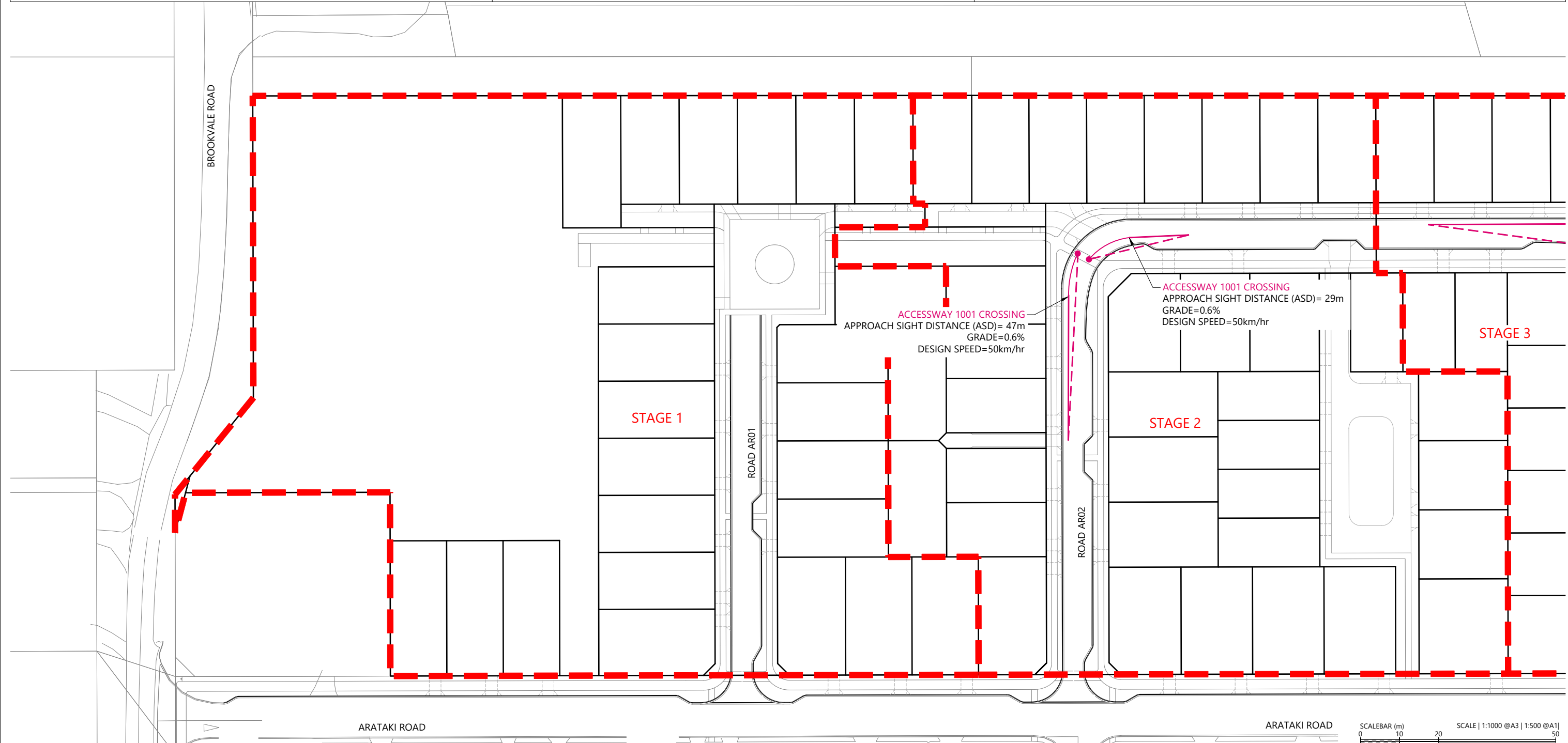
LEGEND

PROPOSED ASPHALT PAVING
PROPOSED BERM
PROPOSED FOOTPATH



NOTES

- ALL WORKS & MATERIALS TO COMPLY WITH AUCKLAND TRANSPORT STANDARDS. ANY AMBIGUITY BETWEEN THESE DRAWINGS & THE STANDARDS IS TO BE REFERRED TO THE ENGINEER FOR CLARIFICATION.
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- ALL CATCHPITS TO BE SEMI-RECESSED 800X500 WITH 1.2M LINTEL UNLESS SPECIFIED OTHERWISE.
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- PRAM CROSSINGS TO BE CONSTRUCTED AS PER AUCKLAND TRANSPORT STANDARDS.
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REVISION DETAILS		INT	DATE	SURVEYED	WOODS
2	ISSUED FOR CONSENT	TB	JUNE 2025	DESIGNED	AB
				DRAWN	TB
				CHECKED	BLO
				APPROVED	BF



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ARATAKI DEVELOPMENT - HAVELOCK NORTH

APPROACH SIGHT DISTANCE PLAN - SHEET 1



STATUS	ISSUED FOR CONSENT	REV
SCALE	1:1000 @ A3	2
COUNCIL	HASTINGS DISTRICT COUNCIL	
DWG NO	P24-244-00-2754-RD	

LEGEND

PROPOSED ASPHALT PAVING

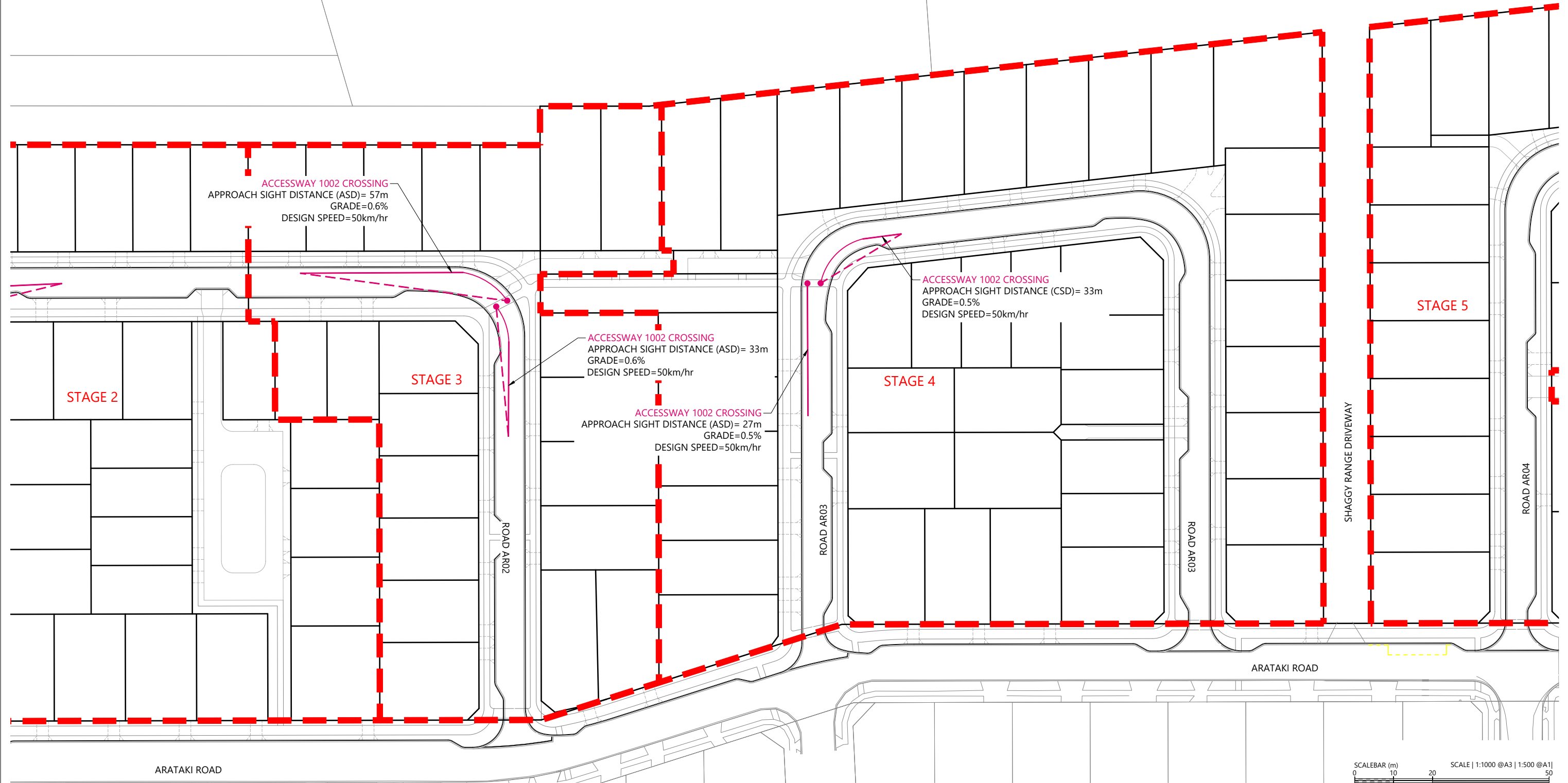
PROPOSED BERM

PROPOSED FOOTPATH



NOTES

1. ALL WORKS & MATERIALS TO COMPLY WITH AUCKLAND TRANSPORT STANDARDS. ANY AMBIGUITY BETWEEN THESE DRAWINGS & THE STANDARDS IS TO BE REFERRED TO THE ENGINEER FOR CLARIFICATION.
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7. ALL LINE MARKING & ROAD SIGNAGE IS TO BE CONSTRUCTED AS PER NEW ZEALAND TRANSPORT AGENCY MANUAL OF SIGNS & MARKINGS.



REVISION DETAILS		INT	DATE	SURVEYED	WOODS
2	ISSUED FOR CONSENT	TB	JUNE 2025	DESIGNED	AB
				DRAWN	TB
				CHECKED	BLO
				APPROVED	BF



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ARATAKI DEVELOPMENT - HAVELOCK NORTH

APPROACH SIGHT DISTANCE PLAN - SHEET 2



STATUS	ISSUED FOR CONSENT	REV
SCALE	1:1000 @ A3	2
COUNCIL	HASTINGS DISTRICT COUNCIL	
DWG NO	P24-244-00-2755-RD	

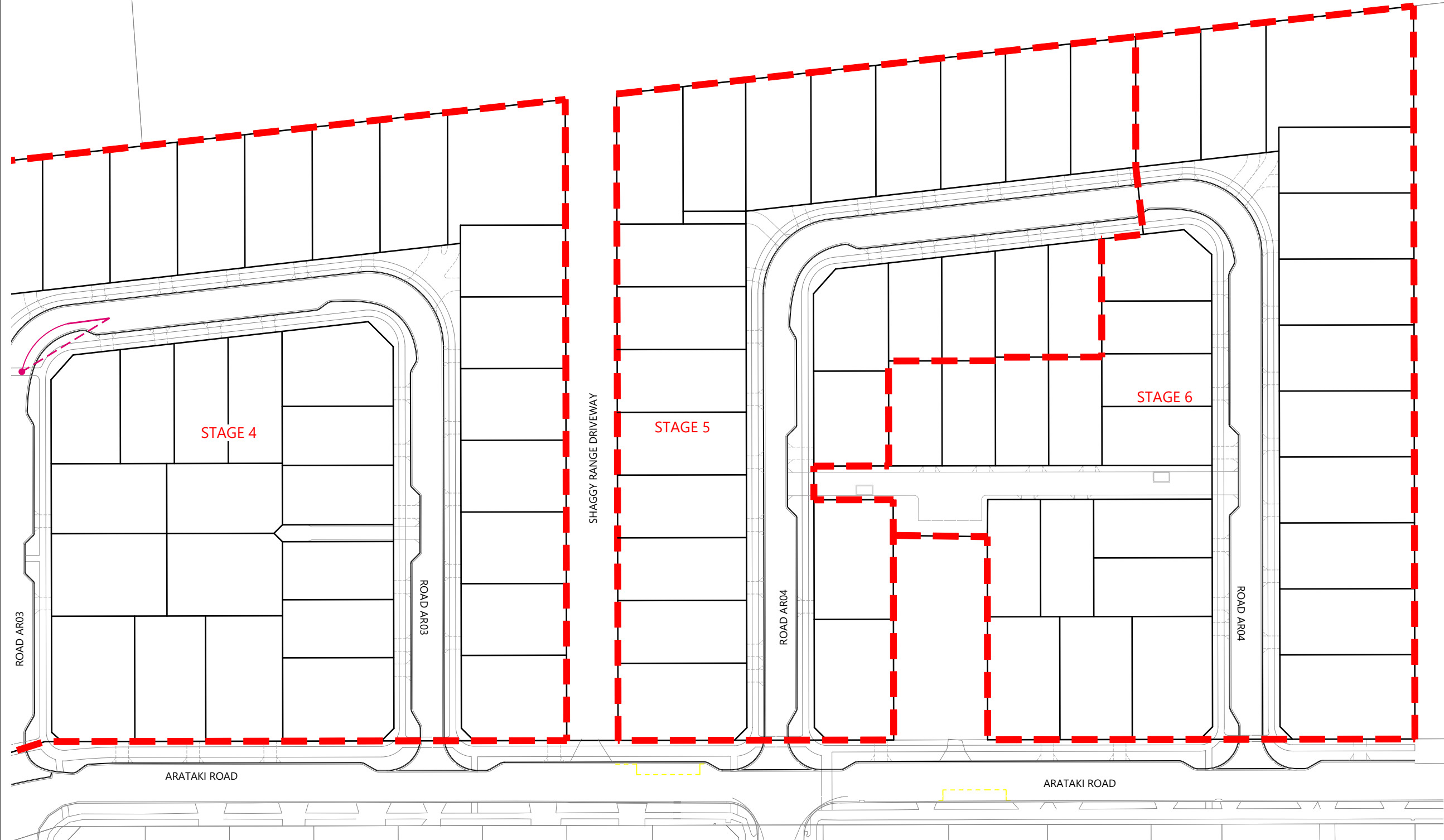
LEGEND

PROPOSED ASPHALT PAVING
PROPOSED BERM
PROPOSED FOOTPATH



NOTES

1. ALL WORKS & MATERIALS TO COMPLY WITH AUCKLAND TRANSPORT STANDARDS. ANY AMBIGUITY BETWEEN THESE DRAWINGS & THE STANDARDS IS TO BE REFERRED TO THE ENGINEER FOR CLARIFICATION.
2. ALL KERB & CHANNEL / NIB TO BE SLIP-FORM, 25MPA FIBRE REINFORCED.
3. ALL CATCHPITS TO BE SEMI-RECESSED 800X500 WITH 1.2M LINTEL UNLESS SPECIFIED OTHERWISE.
4. FOOTPATHS TO BE CONSTRUCTED AS PER THE TYPICAL CROSS SECTIONS.
5. PRAM CROSSINGS TO BE CONSTRUCTED AS PER AUCKLAND TRANSPORT STANDARDS.
6. VEHICLE CROSSINGS SHOWN ON THIS PLAN ARE FOR PLANNING PURPOSES ONLY & WILL NOT BE CONSTRUCTED UNLESS OTHERWISE NOTED.
7. ALL LINE MARKING & ROAD SIGNAGE IS TO BE CONSTRUCTED AS PER NEW ZEALAND TRANSPORT AGENCY MANUAL OF SIGNS & MARKINGS.



REVISION DETAILS		INT	DATE	SURVEYED	WOODS
2	ISSUED FOR CONSENT	TB	JUNE 2025	DESIGNED	AB
				DRAWN	TB
				CHECKED	BLO
				APPROVED	BF



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ARATAKI DEVELOPMENT - HAVELOCK NORTH
APPROACH SIGHT DISTANCE PLAN - SHEET 3



STATUS	ISSUED FOR CONSENT	REV
SCALE	1:1000 @ A3	2
COUNCIL	HASTINGS DISTRICT COUNCIL	
DWG NO	P24-244-00-2756-RD	

LEGEND

PROPOSED ASPHALT PAVING

PROPOSED BERM

PROPOSED FOOTPATH



NOTES

1. ALL WORKS & MATERIALS TO COMPLY WITH AUCKLAND TRANSPORT STANDARDS. ANY AMBIGUITY BETWEEN THESE DRAWINGS & THE STANDARDS IS TO BE REFERRED TO THE ENGINEER FOR CLARIFICATION.
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BROOKVALE ROAD

STAGE 1

STAGE 2

STAGE 3

AR01 INTERSECTION 1
CROSSING SIGHT DISTANCE (CSD)= 70m
GRADE=0.8%
DESIGN SPEED=50km/hr

AR01 INTERSECTION 1
CROSSING SIGHT DISTANCE (CSD)= 43m
GRADE=2.5%
DESIGN SPEED=50km/hr

AR02 INTERSECTION 1
CROSSING SIGHT DISTANCE (CSD)= 41m
GRADE=2.5%
DESIGN SPEED=50km/hr

AR02 INTERSECTION 1
CROSSING SIGHT DISTANCE (CSD)= 63m
GRADE=1.2%
DESIGN SPEED=50km/hr

AR02 INTERSECTION 1
CROSSING SIGHT DISTANCE (CSD)= 67m
GRADE=2.5%
DESIGN SPEED=50km/hr

ARATAKI ROAD

ROAD AR02

ROAD AR01

ARATAKI ROAD

SCALEBAR (m)
0 10 20 50
SCALE | 1:1000 @A3 | 1:500 @A1 |

REVISION DETAILS		INT	DATE	SURVEYED	WOODS
2	ISSUED FOR CONSENT	TB	JUNE 2025	DESIGNED	AB
				DRAWN	TB
				CHECKED	BLO
				APPROVED	BF



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ARATAKI DEVELOPMENT - HAVELOCK NORTH

CROSSING SIGHT DISTANCE PLAN - SHEET 1



STATUS	ISSUED FOR CONSENT	REV
SCALE	1:1000 @ A3	2
COUNCIL	HASTINGS DISTRICT COUNCIL	
DWG NO	P24-244-00-2757-RD	

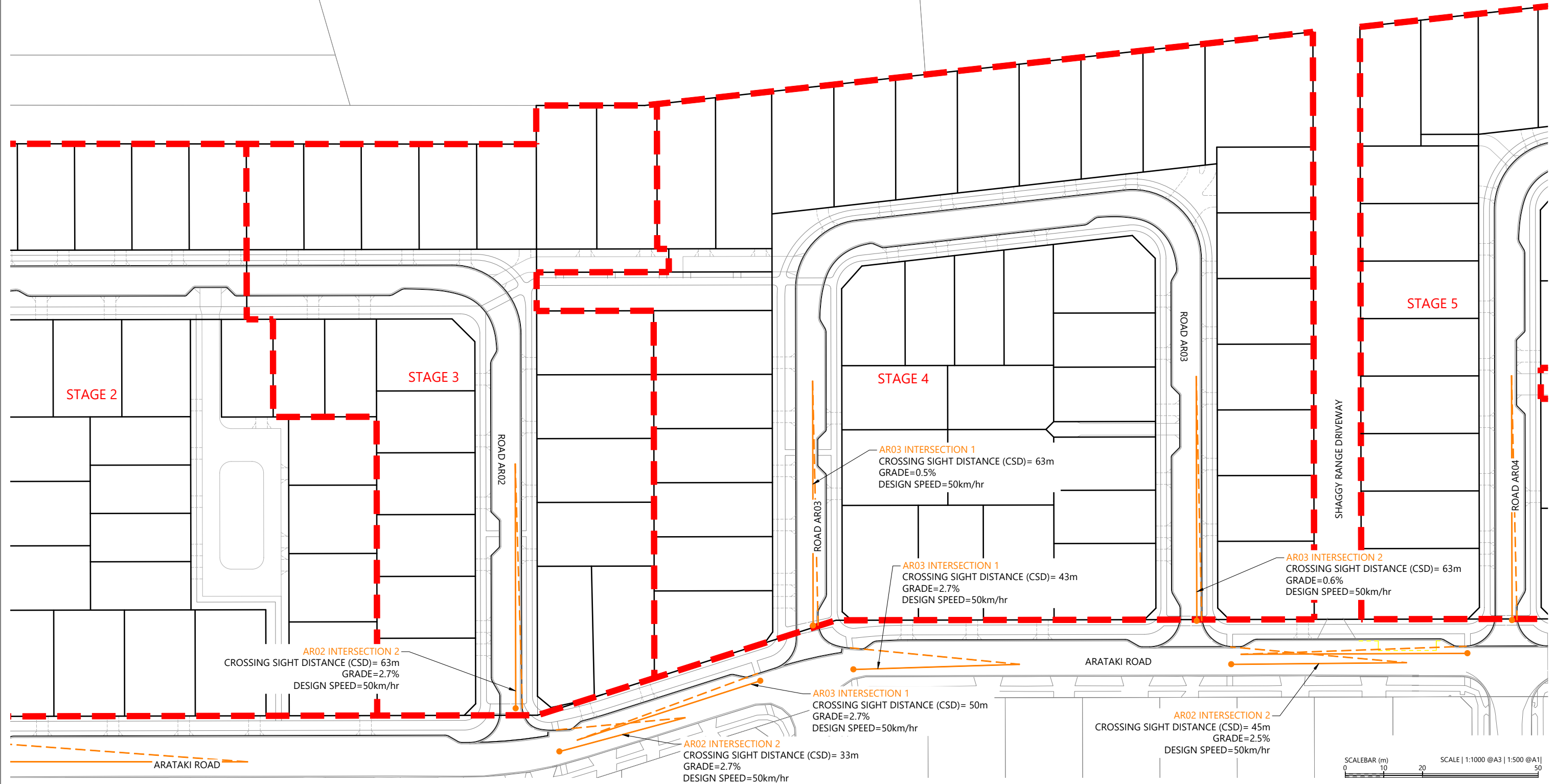
LEGEND

PROPOSED ASPHALT PAVING
PROPOSED BERM
PROPOSED FOOTPATH



NOTES

1. ALL WORKS & MATERIALS TO COMPLY WITH AUCKLAND TRANSPORT STANDARDS. ANY AMBIGUITY BETWEEN THESE DRAWINGS & THE STANDARDS IS TO BE REFERRED TO THE ENGINEER FOR CLARIFICATION.
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REVISION DETAILS		INT	DATE	SURVEYED	WOODS
2	ISSUED FOR CONSENT	TB	JUNE 2025	DESIGNED	AB
				DRAWN	TB
				CHECKED	BLO
				APPROVED	BF



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ARATAKI DEVELOPMENT - HAVELOCK NORTH
CROSSING SIGHT DISTANCE PLAN - SHEET 2



STATUS	ISSUED FOR CONSENT	REV
SCALE	1:1000 @ A3	2
COUNCIL	HASTINGS DISTRICT COUNCIL	
DWG NO	P24-244-00-2758-RD	

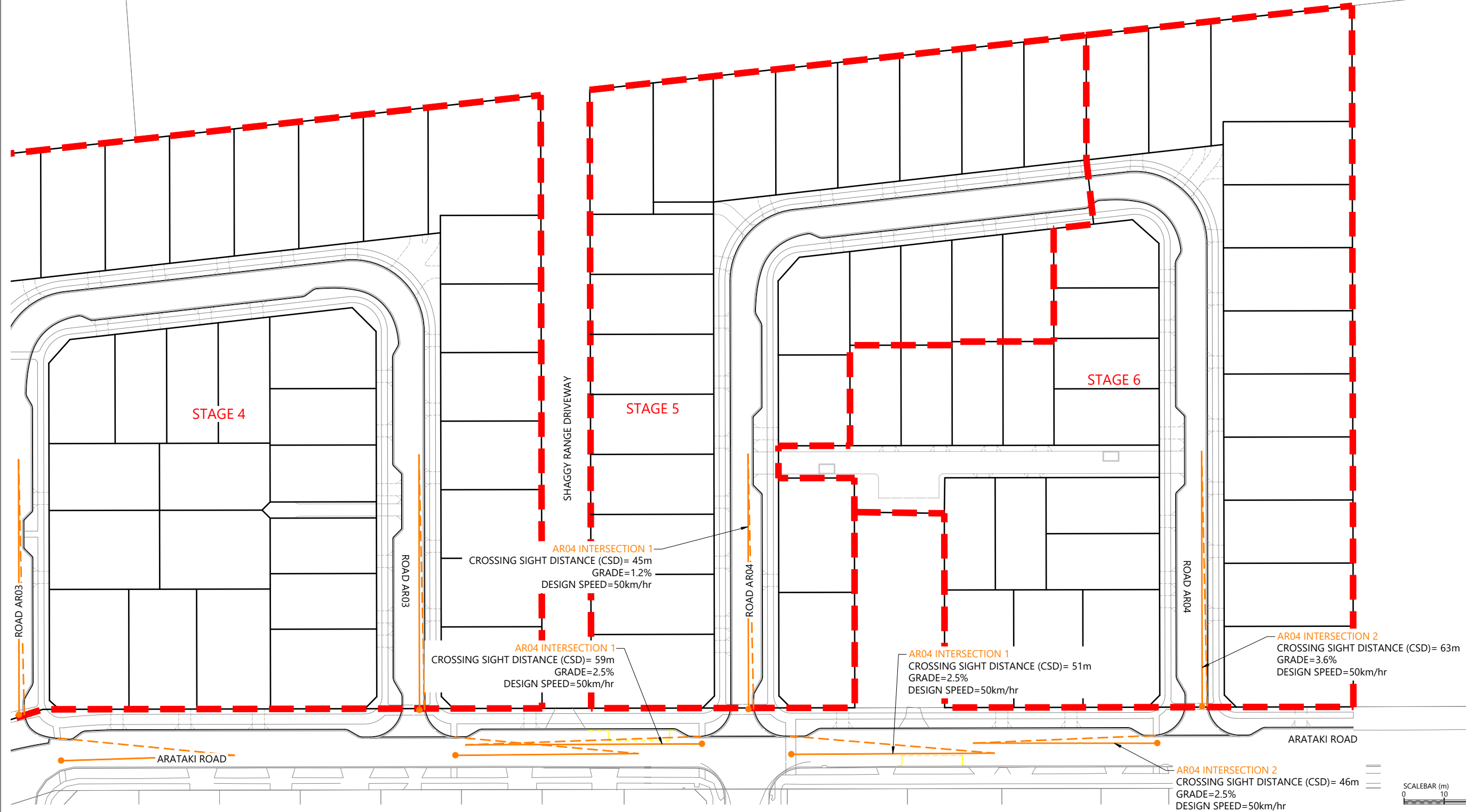
LEGEND

PROPOSED ASPHALT PAVING
PROPOSED BERM
PROPOSED FOOTPATH



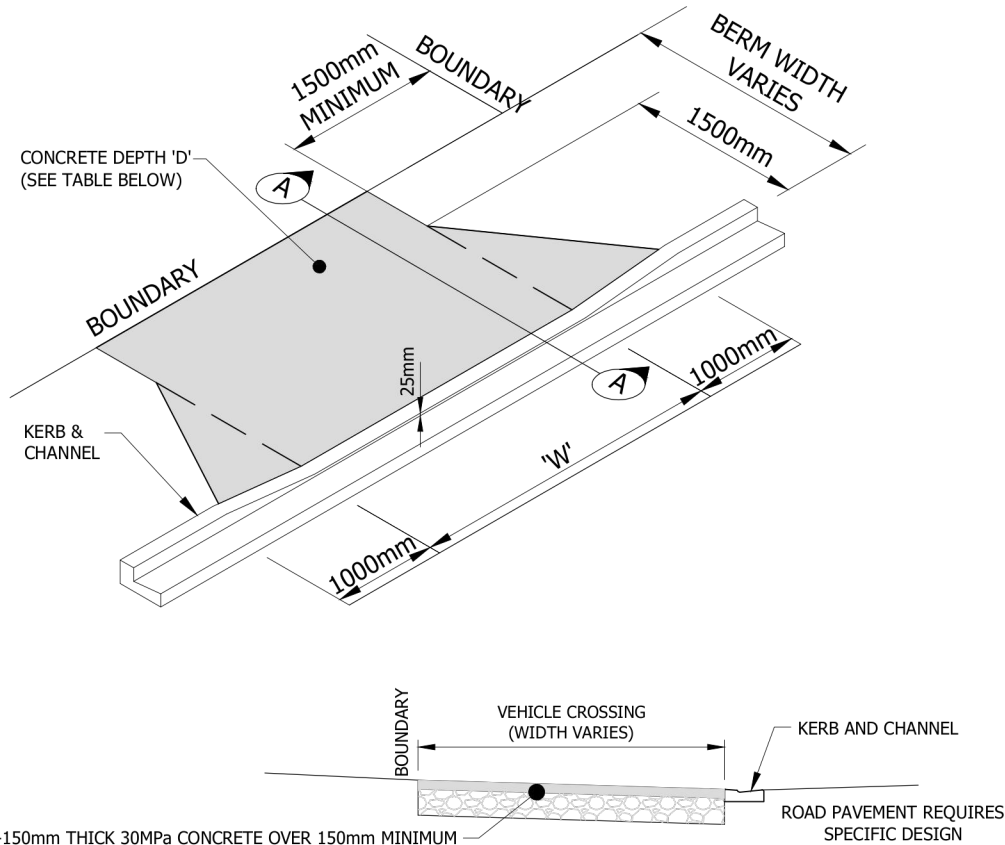
NOTES

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REVISION DETAILS		INT	DATE	SURVEYED	WOODS		BUILDING B, LEVEL 1 8 NUGENT ST, GRAFTON, AUCKLAND 1023 +64 9 308 9229 WOODS.CO.NZ		ARATAKI DEVELOPMENT - HAVELOCK NORTH					STATUS	ISSUED FOR CONSENT	REV
2	ISSUED FOR CONSENT	TB	JUNE 2025	DESIGNED	AB				SCALE	1:1000 @ A3	2					
				DRAWN	TB				COUNCIL	HASTINGS DISTRICT COUNCIL						
				CHECKED	BLO				DWG NO	P24-244-00-2759-RD						
				APPROVED	BF											

TRIM Reference :



100-150mm THICK 30MPa CONCRETE OVER 150mm MINIMUM THICK M4 BASECOURSE COMPACTED IN 150mm LAYERS TO AN APPROPRIATE CLEGG READING INDICATED IN TABLE BELOW

SECTION A-A

Property Description		Min. Width 'W'	Max. Width 'W'	Concrete Depth 'D'	Mesh Reinforcing	Basecourse Thickness	Target Clegg Reading
Residential	1-2 Dwellings	3m	4.8m	100mm	No	150mm	25
	3-4 Dwellings	4m	4.8m	125mm	No	150mm	25
	5+ Dwellings	6m	6m	150mm	1 Layer 665	200mm	35
Light Commercial (not requiring specific design).		4m	6m	150mm	1 Layer 665	200mm	35
Industrial (not requiring specific design).		6m	9m	150mm	1 Layer 665	200mm	35

- NOTES:
- DEPTH OF BASECOURSE WILL DEPEND ON SUBGRADE STRENGTH. THE DEPTHS SHOWN ASSUME A SUBGRADE CBR > 5%. BASECOURSE IS TO BE COMPACTED TO 95% STANDARD COMPACTION.
 - FOR SUBGRADE STRENGTH BELOW CBR 5% SPECIFIC DESIGNS ARE REQUIRED.
 - CONCRETE STRENGTH TO BE A MINIMUM OF 30MPa AT 28 DAYS.
 - WHERE MOUNTABLE KERBS ARE PRESENT THERE IS TO BE NO CUT DOWN AND THE VEHICLE CROSSING WILL TIE INTO THE TOP OF KERB LEVEL.
 - REFER TO DRAWING C19A FOR DETAILS OF KERB AND CHANNEL PROFILE ADJACENT TO SHARED CYCLEWAY AND FOOTPATH.



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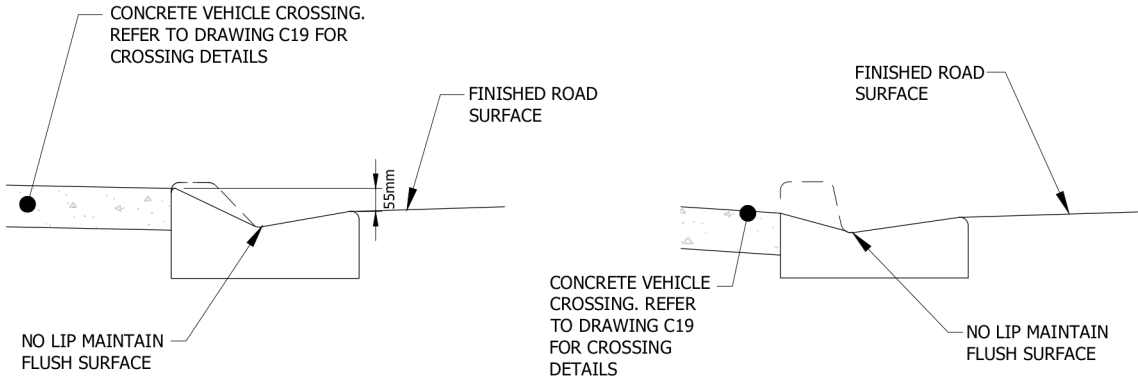
NOT TO SCALE

MINIMUM STANDARDS FOR VEHICLE CROSSINGS ONTO URBAN ROADS

C19

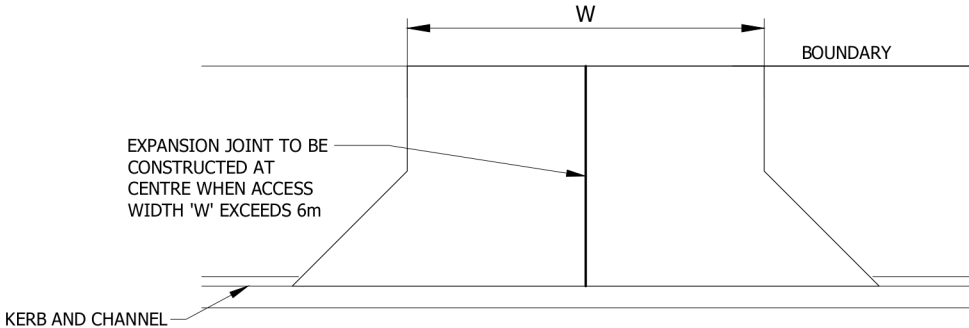
NOV 2018

TRIM Reference :

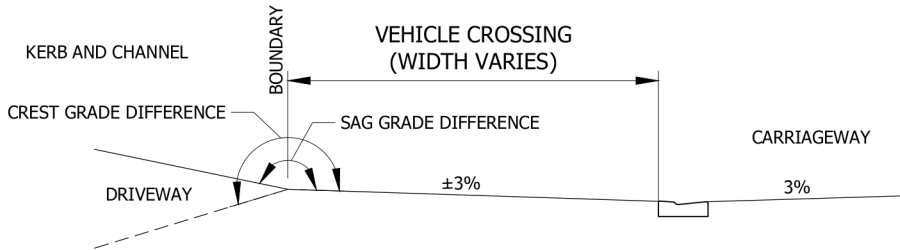


MOUNTABLE KERB AND CHANNEL PROFILE AT DRIVEWAYS ADJACENT TO CYCLEWAY

NON-MOUNTABLE KERB AND CHANNEL PROFILE AT DRIVEWAYS ADJACENT TO CYCLEWAYS



EXPANSION JOINT



MAXIMUM GRADE DIFFERENCES FOR URBAN VEHICLE CROSSINGS

- NOTES:
- MAXIMUM CREST GRADE DIFFERENCE IS 10%
 - MAXIMUM SAG GRADE DIFFERENCE IS 17%



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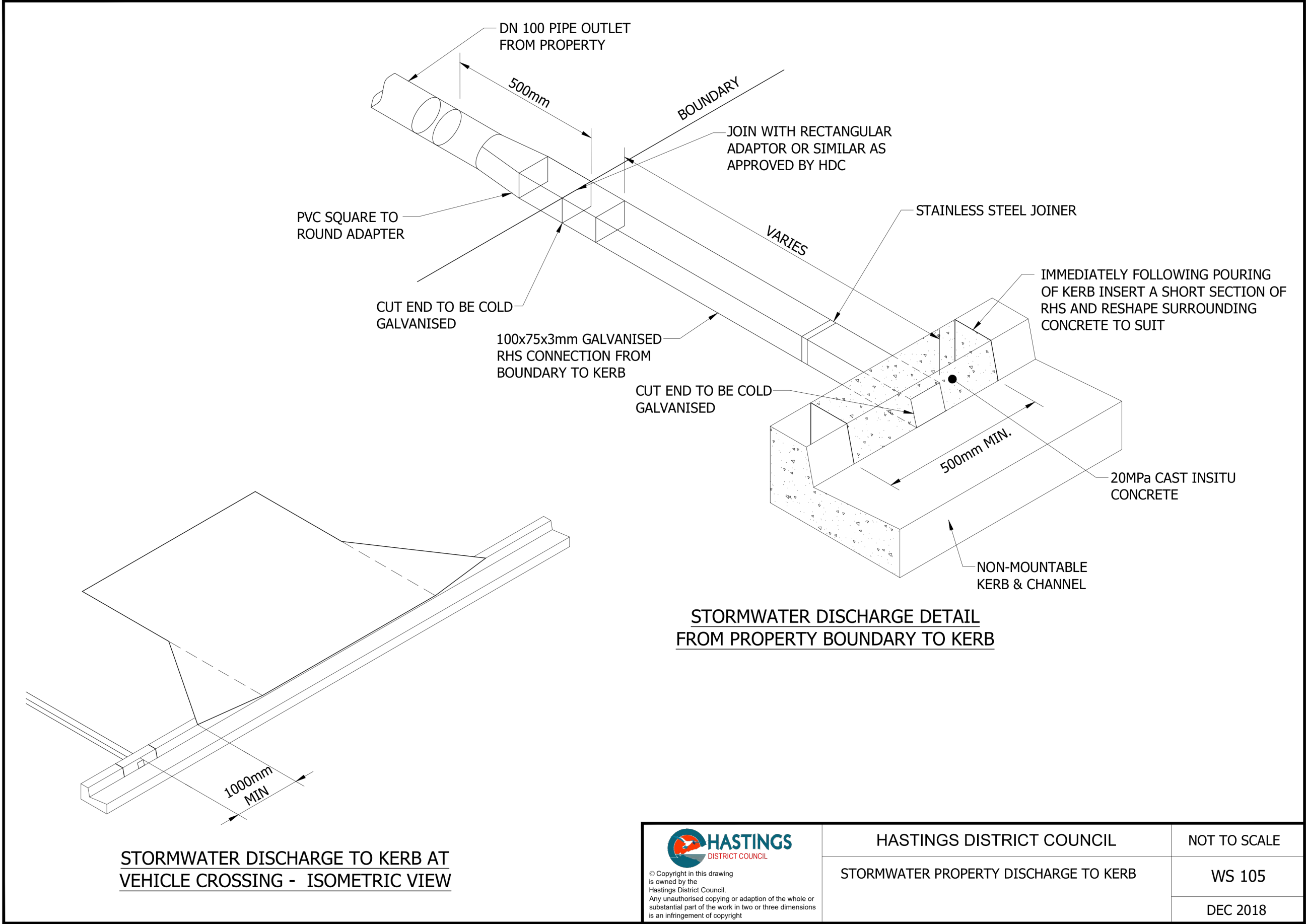
NOT TO SCALE

MINIMUM STANDARDS FOR VEHICLE CROSSINGS - TYPICAL SECTIONS

C19A

NOV 2018

REVISION DETAILS		INT	DATE	SURVEYED	WOODS		BUILDING B, LEVEL 1 8 NUGENT ST, GRAFTON, AUCKLAND 1023 +64 9 308 9229 WOODS.CO.NZ		ARATAKI DEVELOPMENT - HAVELOCK NORTH			STATUS	ISSUED FOR CONSENT	REV
1	ISSUED FOR APPROVAL	TB	MAY 2025	DESIGNED	HASTINGSDC				SCALE	NOT TO SCALE	2			
2	ISSUED FOR CONSENT	TB	JUNE 2025	DRAWN	TB				COUNCIL	HASTINGS DISTRICT COUNCIL				
				CHECKED	BLO				DWG NO	P24-244-00-2800-RD				
				APPROVED	BF									



REVISION DETAILS		INT	DATE	SURVEYED	WOODS
1	ISSUED FOR APPROVAL	TB	MAY 2025	DESIGNED	HASTINGSDC
2	ISSUED FOR CONSENT	TB	JUNE 2025	DRAWN	TB
				CHECKED	BLO
				APPROVED	BF

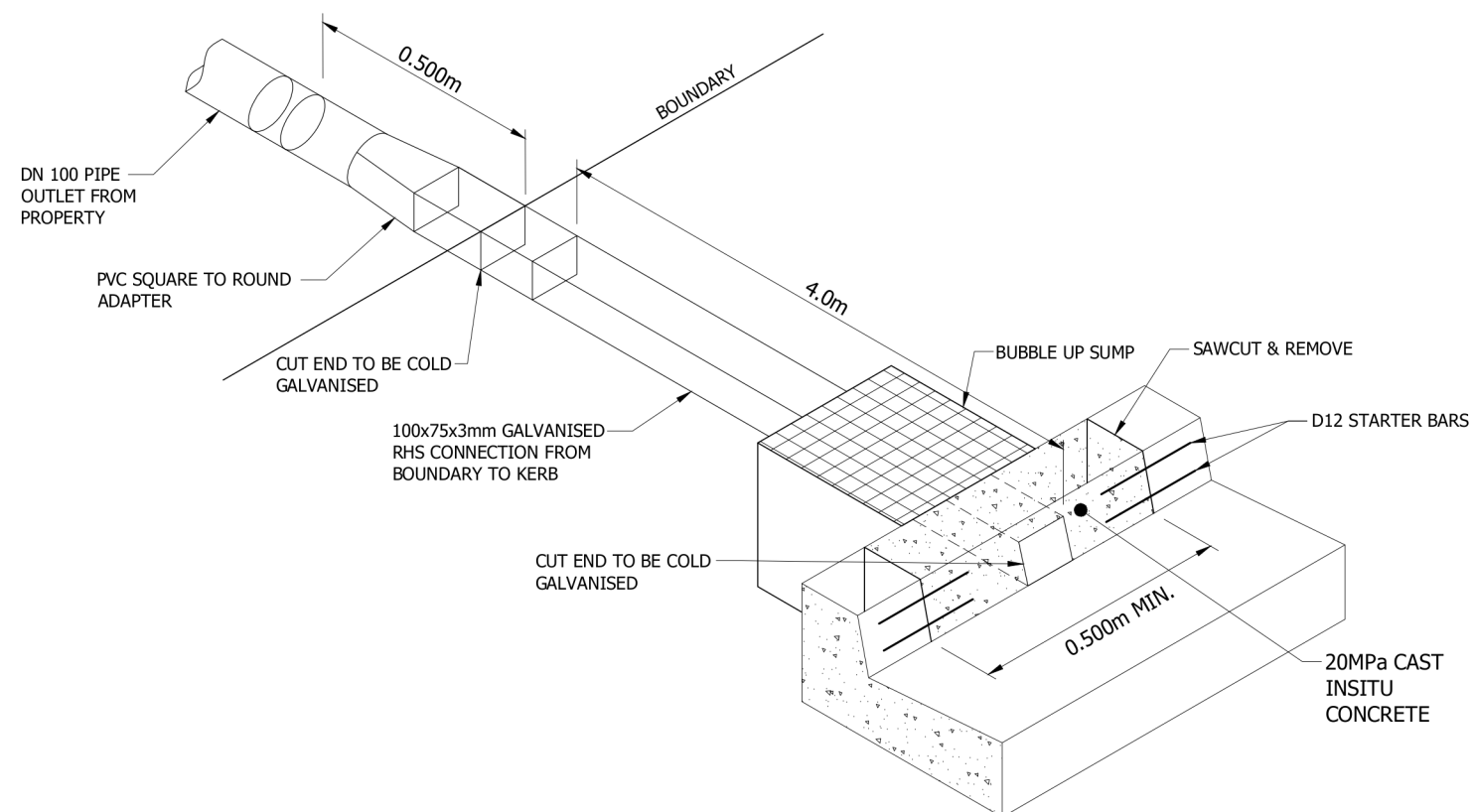



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ARATAKI DEVELOPMENT - HAVELOCK NORTH
ROAD DETAILS
HDC ENG COP - WS 105

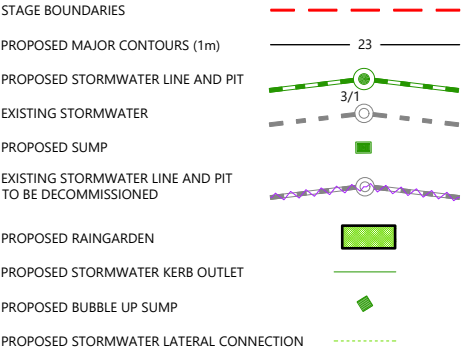
STATUS	ISSUED FOR CONSENT	REV
SCALE	NOT TO SCALE	2
COUNCIL	HASTINGS DISTRICT COUNCIL	
DWG NO	P24-244-00-2801-RD	



 <p>© Copyright in this drawing is owned by the Hastings District Council. Any unauthorised copying or adaption of the whole or substantial part of the work in two or three dimensions is an infringement of copyright</p>	HASTINGS DISTRICT COUNCIL	NOT TO SCALE
	DOMESTIC PROPERTY DISCHARGE BUBBLE UP SUMP	WS 106 DEC 2018

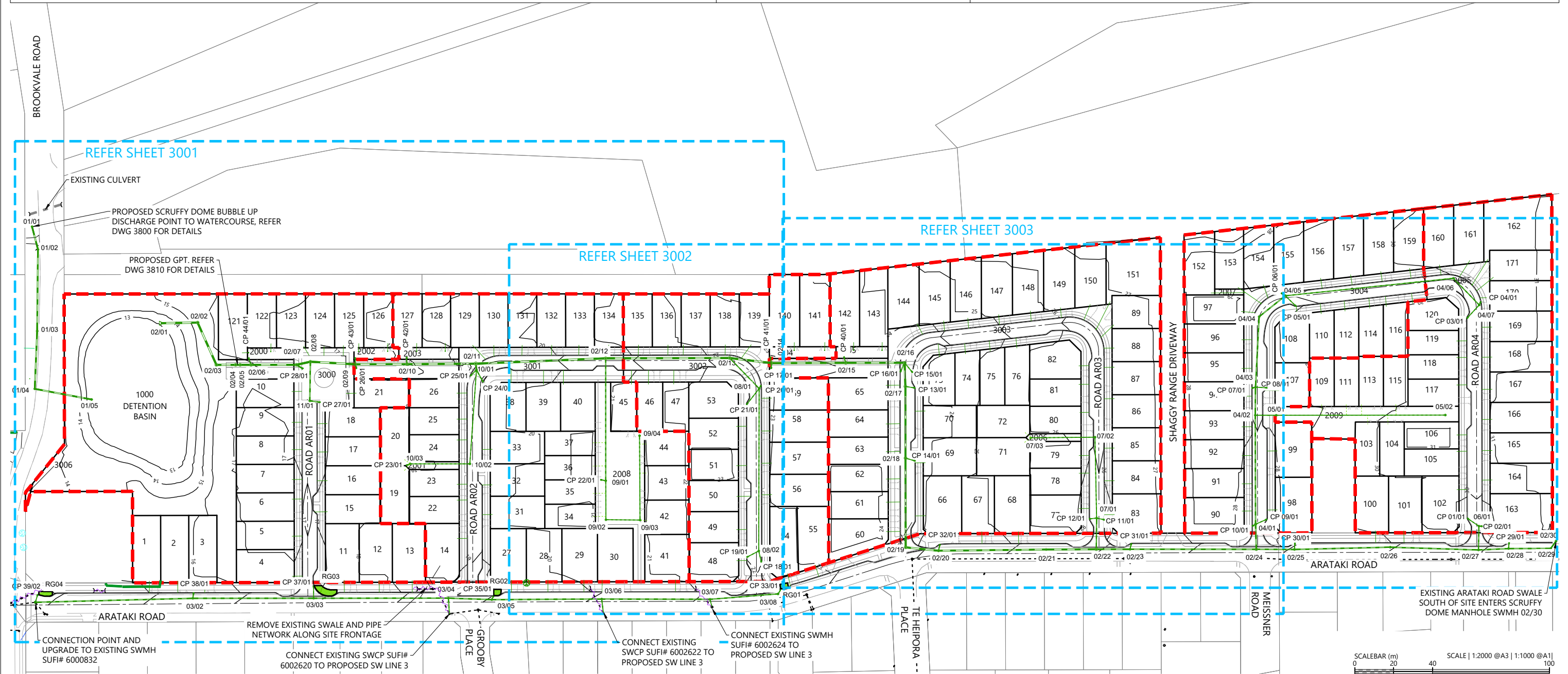
REVISION DETAILS		INT	DATE	SURVEYED	WOODS		BUILDING B, LEVEL 1 8 NUGENT ST, GRAFTON, AUCKLAND 1023 +64 9 308 9229 WOODS.CO.NZ		<h2>ARATAKI DEVELOPMENT - HAVELOCK NORTH</h2> <h3>ROAD DETAILS</h3> <h4>HDC ENG COP - WS 106</h4>		STATUS	ISSUED FOR CONSENT	REV
1	ISSUED FOR APPROVAL	TB	MAY 2025	DESIGNED	HASTINGS DC						SCALE	NOT TO SCALE	2
2	ISSUED FOR CONSENT	TB	JUNE 2025	DRAWN	TB						COUNCIL	HASTINGS DISTRICT COUNCIL	
				CHECKED	BLO						DWG NO	P24-244-00-2802-RD	
				APPROVED	BF								

LEGEND



NOTES

1. ALL WORKS & MATERIALS TO COMPLY WITH HASTINGS DISTRICT COUNCIL STANDARDS.
2. FOR PIPE BEDDING DETAILS REFER TO STANDARD DETAIL SHEETS UNLESS OTHERWISE NOTED ON THE DRAINAGE LONG SECTIONS IN WHICH CASE SUCH NOTES TAKE PRECEDENCE.
3. CONCRETE PIPES CLASSES ARE NOTED ON THE DRAINAGE LONG SECTIONS. ALL SUMP LEADS TO BE RCRRJ CLASS 4.
4. ALL PIPE CROSSINGS UNDER ROADS TO BE HARDFILL BACKFILLED.
5. ALL SW LOT CONNECTIONS TO BE 150MMØ. RAMPED RISERS ARE TO BE EXTENDED & CAPPED OFF WITHIN 1.0M OF THE FINISHED GROUND SURFACE.
6. SW LOT CONNECTIONS ARE VIA KERB OUTLETS UNLESS OTHERWISE STATED. KERB OUTLETS TO FOLLOW HASTINGS DISTRICT COUNCIL ENGINEERING CODE OF PRACTICE STANDARD DRAWINGS WS 105 AND WS 106.
7. ALL MANHOLES TO BE 1050MMØ UNLESS OTHERWISE NOTED ON THE DRAINAGE LONG SECTION IN WHICH CASE SUCH NOTES SHALL TAKE PRECEDENCE.
8. THE CONTRACTOR IS TO PEG MANHOLES & CHECK FINISHED LEVELS (MH LID LEVELS) PRIOR TO ORDERING MANHOLES.
9. ALL MANHOLE LIDS IN CYCLEWAYS AND SHARED PATHS MUST HAVE A CYCLIST FRIENDLY COVER.
10. PIPE GRADES ON THE LONG SECTIONS ARE CALCULATED FROM MANHOLE SIDE TO MANHOLE SIDE. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT LASER LEVELS ARE SET TO COMPENSATE FOR THIS.



REVISION DETAILS					INT	DATE	SURVEYED	WOODS
1	ISSUED FOR DISCUSSION				AS	APR 2025	DESIGNED	AS
2	ISSUED FOR CONSENT				AS	JUN 2025	DRAWN	AS
							CHECKED	BLO
							APPROVED	BF

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ARATAKI DEVELOPMENT - HAVELOCK NORTH
STORMWATER DRAINAGE LAYOUT OVERALL PLAN



STATUS	ISSUED FOR CONSENT	REV
SCALE	1:2000 @ A3	2
COUNCIL	HASTINGS DISTRICT COUNCIL	
DWG NO	P24-244-00-3000-DR	

LEGEND

STAGE BOUNDARIES

PROPOSED MAJOR CONTOURS (1m)

PROPOSED STORMWATER LINE AND PIT

EXISTING STORMWATER

PROPOSED SUMP

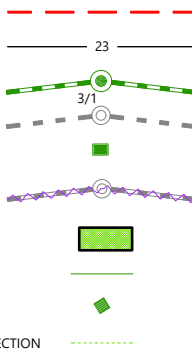
EXISTING STORMWATER LINE AND PIT
TO BE DECOMMISSIONED

PROPOSED RAINGARDEN

PROPOSED STORMWATER KERB OUTLET

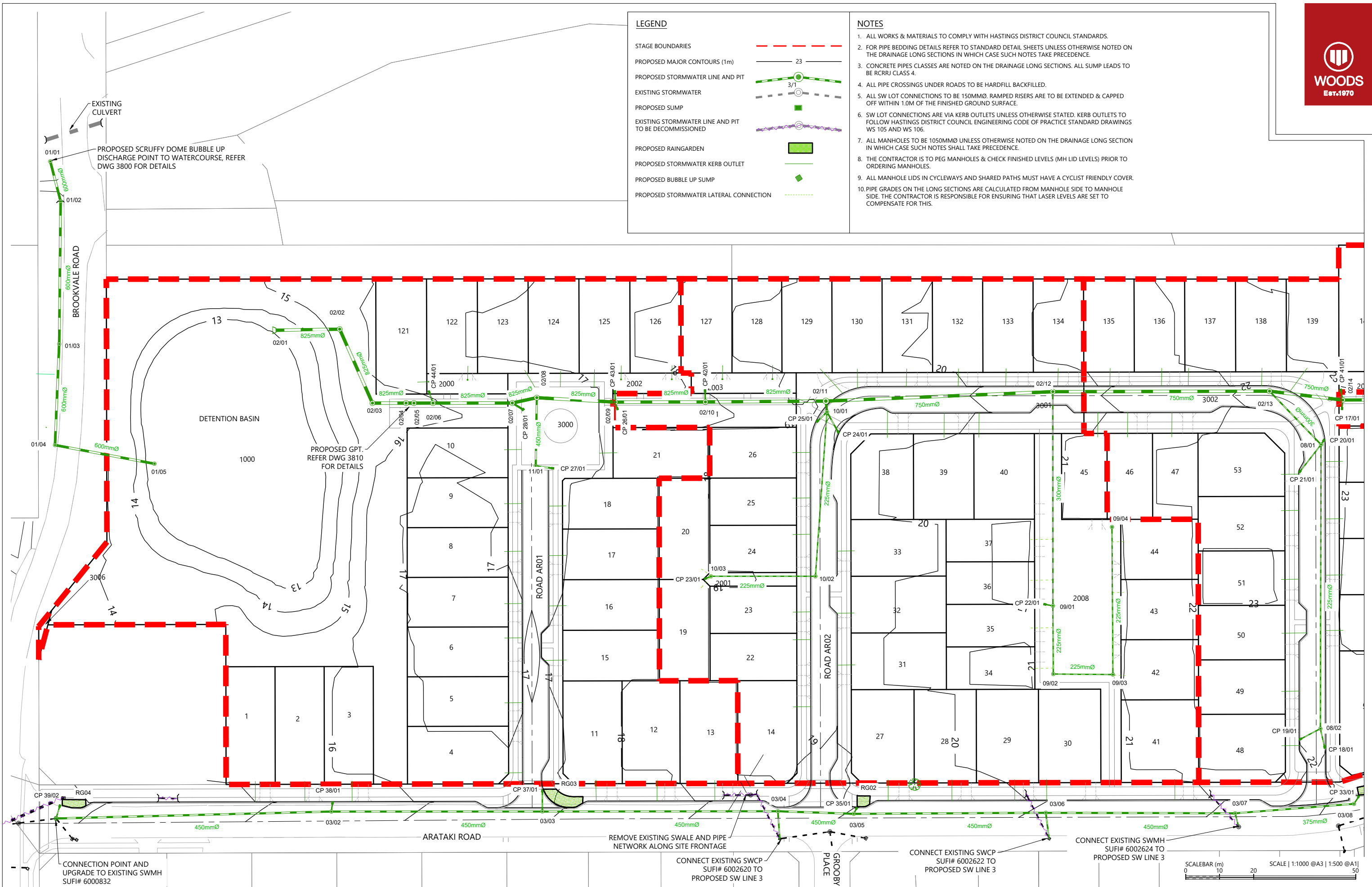
PROPOSED BUBBLE UP SUMP

PROPOSED STORMWATER LATERAL CONNECTION

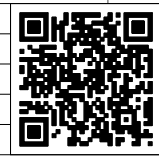


NOTES

1. ALL WORKS & MATERIALS TO COMPLY WITH HASTINGS DISTRICT COUNCIL STANDARDS.
2. FOR PIPE BEDDING DETAILS REFER TO STANDARD DETAIL SHEETS UNLESS OTHERWISE NOTED ON THE DRAINAGE LONG SECTIONS IN WHICH CASE SUCH NOTES TAKE PRECEDENCE.
3. CONCRETE PIPES CLASSES ARE NOTED ON THE DRAINAGE LONG SECTIONS. ALL SUMP LEADS TO BE RCRRJ CLASS 4.
4. ALL PIPE CROSSINGS UNDER ROADS TO BE HARDFILL BACKFILLED.
5. ALL SW LOT CONNECTIONS TO BE 150MMØ. RAMPED RISERS ARE TO BE EXTENDED & CAPPED OFF WITHIN 1.0M OF THE FINISHED GROUND SURFACE.
6. SW LOT CONNECTIONS ARE VIA KERB OUTLETS UNLESS OTHERWISE STATED. KERB OUTLETS TO FOLLOW HASTINGS DISTRICT COUNCIL ENGINEERING CODE OF PRACTICE STANDARD DRAWINGS WS 105 AND WS 106.
7. ALL MANHOLES TO BE 1050MMØ UNLESS OTHERWISE NOTED ON THE DRAINAGE LONG SECTION IN WHICH CASE SUCH NOTES SHALL TAKE PRECEDENCE.
8. THE CONTRACTOR IS TO PEG MANHOLES & CHECK FINISHED LEVELS (MH LID LEVELS) PRIOR TO ORDERING MANHOLES.
9. ALL MANHOLE LIDS IN CYCLEWAYS AND SHARED PATHS MUST HAVE A CYCLIST FRIENDLY COVER.
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REVISION DETAILS		INT	DATE	SURVEYED	WOODS
1	ISSUED FOR INFORMATION	AS	APR 2025	DESIGNED	AS
2	ISSUED FOR CONSENT	AS	JUN 2025	DRAWN	AS
				CHECKED	BLO
				APPROVED	BF



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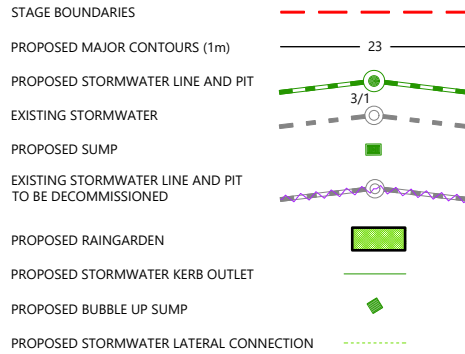
ARATAKI DEVELOPMENT - HAVELOCK NORTH

STORMWATER DRAINAGE LAYOUT PLAN - SHEET 1



STATUS	ISSUED FOR CONSENT	REV
SCALE	1:1000 @ A3	2
COUNCIL	HASTINGS DISTRICT COUNCIL	
DWG NO	P24-244-00-3001-DR	

LEGEND



NOTES

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- CONCRETE PIPES CLASSES ARE NOTED ON THE DRAINAGE LONG SECTIONS. ALL SUMP LEADS TO BE RCRRJ CLASS 4.
- ALL PIPE CROSSINGS UNDER ROADS TO BE HARDFILL BACKFILLED.
- ALL SW LOT CONNECTIONS TO BE 150MMØ. RAMPED RISERS ARE TO BE EXTENDED & CAPPED OFF WITHIN 1.0M OF THE FINISHED GROUND SURFACE.
- SW LOT CONNECTIONS ARE VIA KERB OUTLETS UNLESS OTHERWISE STATED. KERB OUTLETS TO FOLLOW HASTINGS DISTRICT COUNCIL ENGINEERING CODE OF PRACTICE STANDARD DRAWINGS WS 105 AND WS 106.
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REVISION DETAILS		INT	DATE	SURVEYED	WOODS
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2	ISSUED FOR CONSENT	AS	JUN 2025	DRAWN	AS
				CHECKED	BLO
				APPROVED	BF



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ARATAKI DEVELOPMENT - HAVELOCK NORTH

STORMWATER DRAINAGE LAYOUT PLAN - SHEET 2



STATUS	ISSUED FOR CONSENT	REV
SCALE	1:1000 @ A3	2
COUNCIL	HASTINGS DISTRICT COUNCIL	
DWG NO	P24-244-00-3002-DR	

LEGEND

STAGE BOUNDARIES

PROPOSED MAJOR CONTOURS (1m)

PROPOSED STORMWATER LINE AND PIT

EXISTING STORMWATER

PROPOSED SUMP

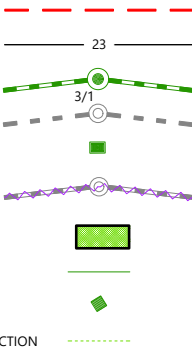
EXISTING STORMWATER LINE AND PIT
TO BE DECOMMISSIONED

PROPOSED RAINGARDEN

PROPOSED STORMWATER KERB OUTLET

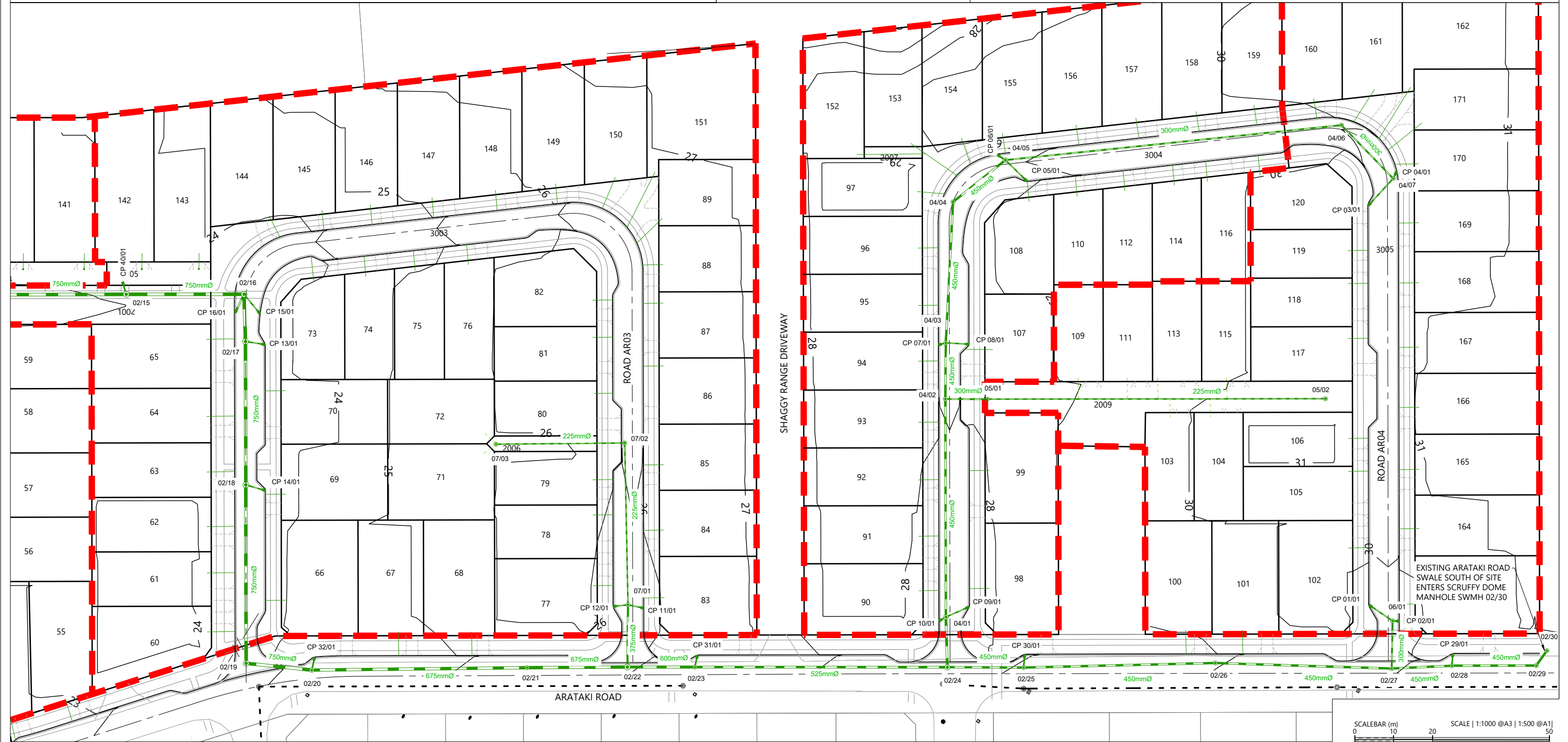
PROPOSED BUBBLE UP SUMP

PROPOSED STORMWATER LATERAL CONNECTION



NOTES

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4. ALL PIPE CROSSINGS UNDER ROADS TO BE HARDFILL BACKFILLED.
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7. ALL MANHOLES TO BE 1050MMØ UNLESS OTHERWISE NOTED ON THE DRAINAGE LONG SECTION IN WHICH CASE SUCH NOTES SHALL TAKE PRECEDENCE.
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1	ISSUED FOR INFORMATION	AS	APR 2025	DESIGNED	AS
2	ISSUED FOR CONSENT	AS	JUN 2025	DRAWN	AS
				CHECKED	BLO
				APPROVED	BF



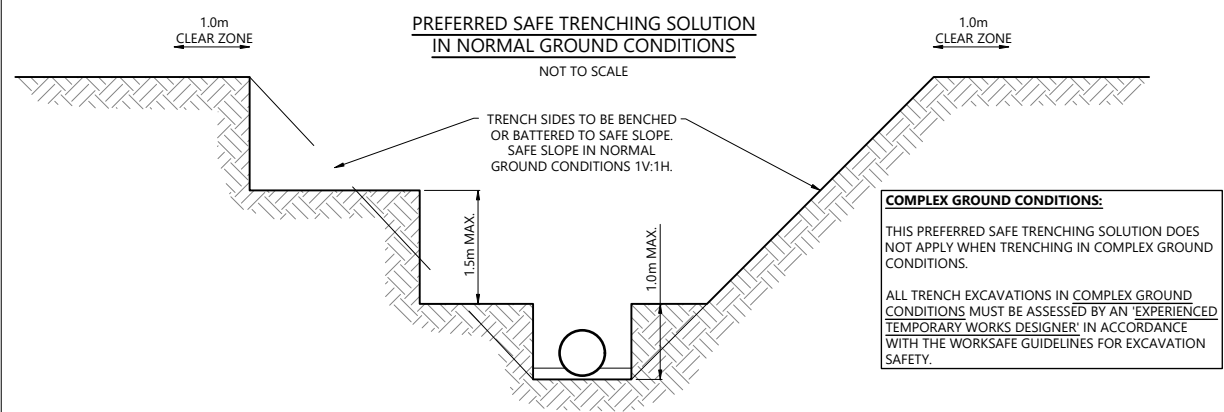
BUILDING B, LEVEL 1
8 NUGENT ST, GRAFTON,
AUCKLAND 1023
+64 9 308 9229
WOODS.CO.NZ



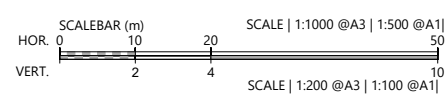
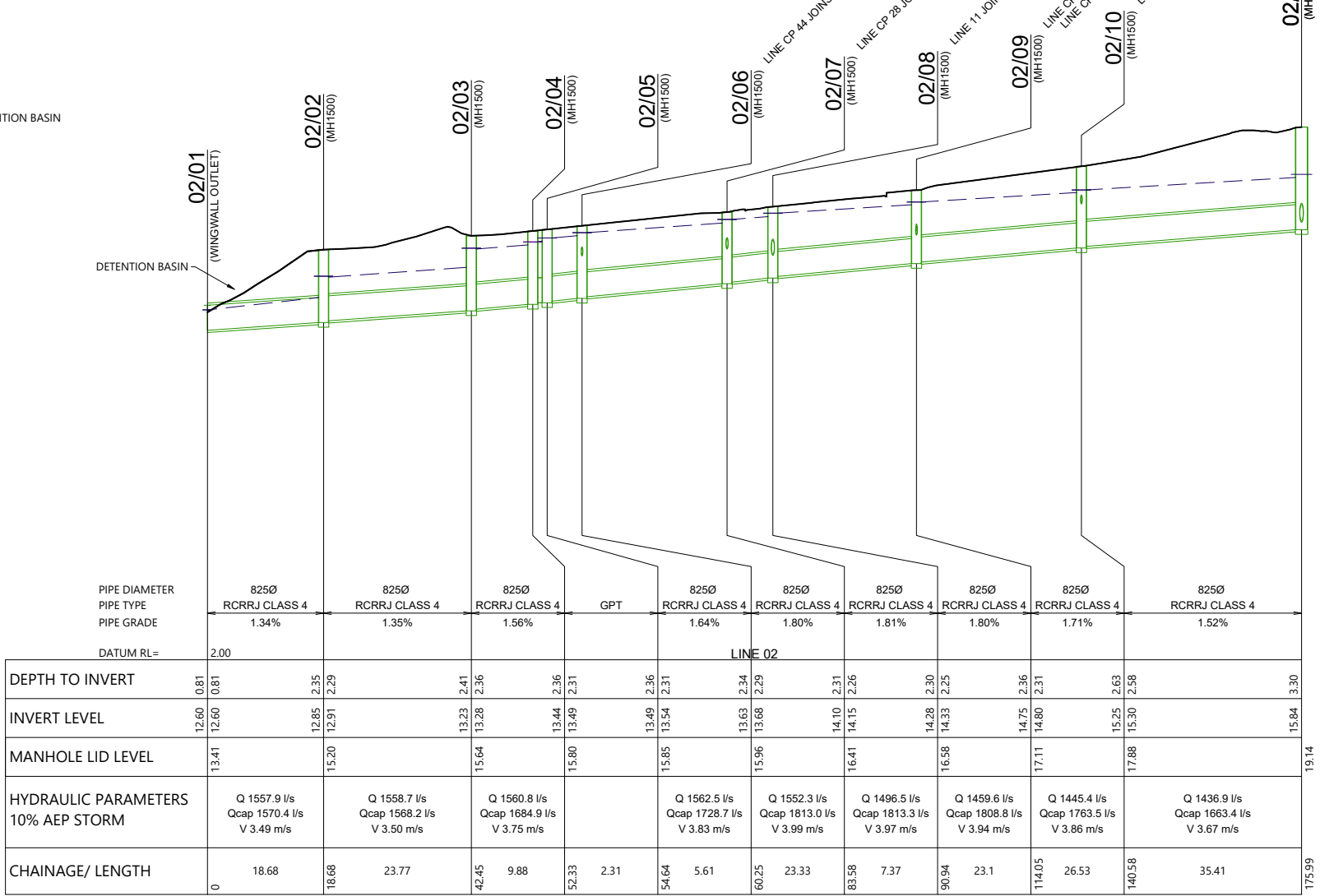
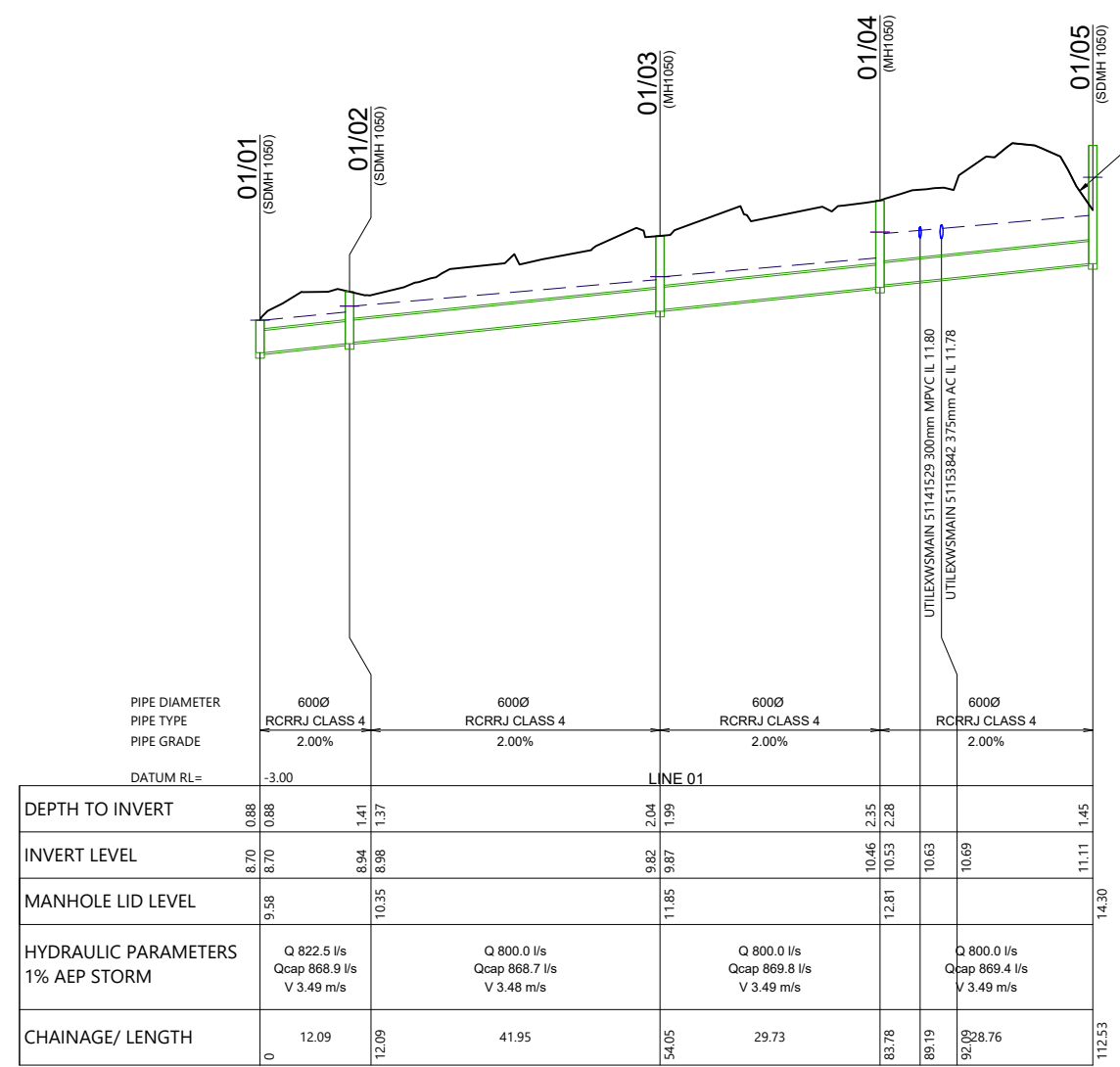
ARATAKI DEVELOPMENT - HAVELOCK NORTH
STORMWATER DRAINAGE LAYOUT PLAN - SHEET 3

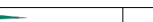
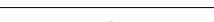


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COUNCIL	HASTINGS DISTRICT COUNCIL	
DWG NO	P24-244-00-3003-DR	



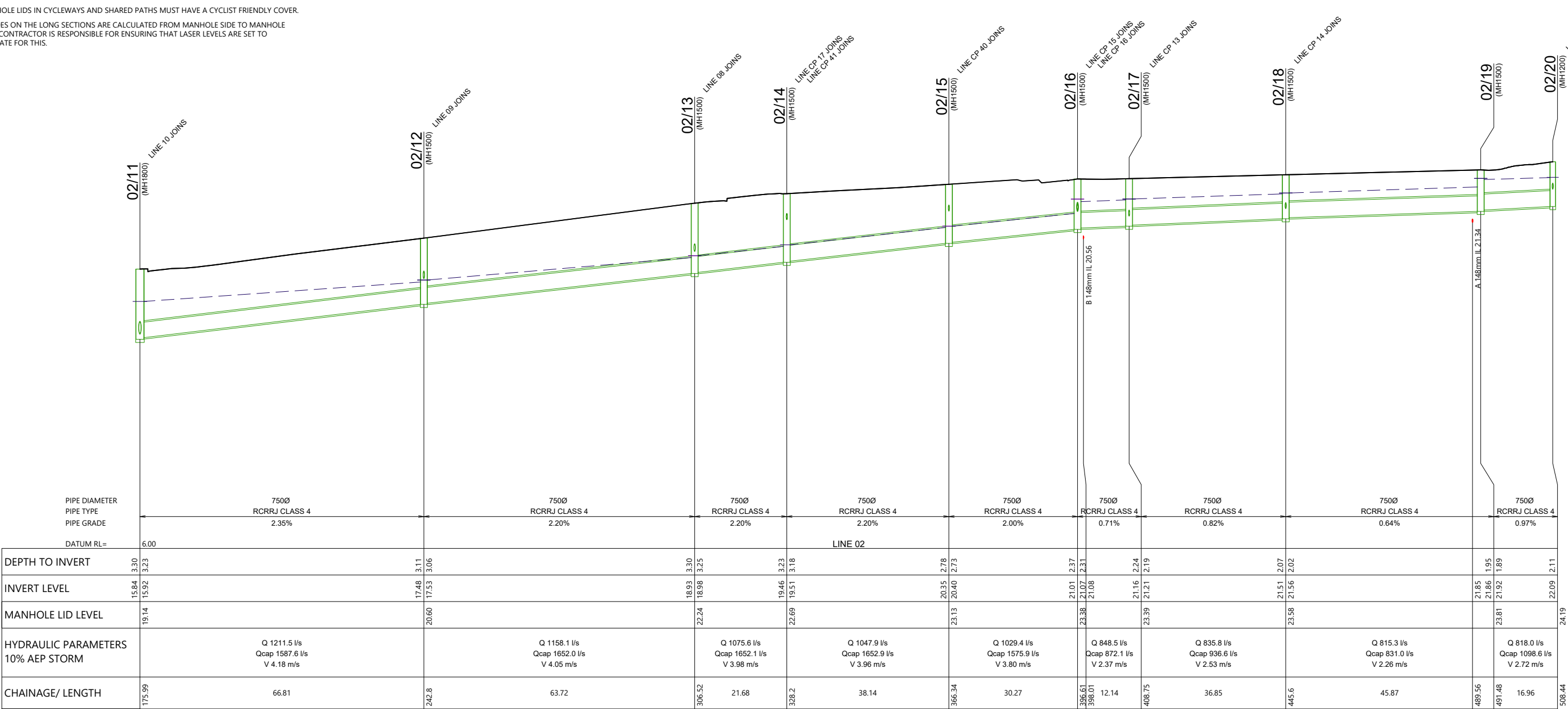
- SAFE TRENCHING NOTES:**
1. THIS DIAGRAM SHOWS THE PREFERRED SAFE TRENCHING SOLUTION IN NORMAL GROUND CONDITIONS.
 2. ALL TRENCH EXCAVATIONS MUST BE ASSESSED BY A 'COMPETENT PERSON' ON SITE IN ACCORDANCE WITH THE WORKSAFE GUIDELINES FOR EXCAVATION SAFETY.
 3. IF THE PREFERRED TRENCHING SOLUTION IS NOT IMPLEMENTED THE CONTRACTOR MUST PROVIDE RECORDS OF THE SAFE TRENCHING ASSESSMENT COMPLETED BY THE 'COMPETENT PERSON'.
 4. TABLES 1 AND 2 OF THE WORKSAFE GUIDELINES SETOUT THE RECOMMENDED COMPETENCIES FOR THE 'COMPETENT PERSON'.
 5. GROUND CONDITIONS AS DEFINED IN TABLES 1 AND 2 OF THE WORKSAFE GUIDELINES:
 - **NORMAL GROUND CONDITIONS:** GENERALLY FLAT OPEN GROUND, WITH LITTLE OR NO SURCHARGE LOADING, FAVOURABLE GROUND CONDITIONS, OFF SET FROM NEARBY STRUCTURES AND SENSITIVE INFRASTRUCTURE. GROUNDWATER CAN BE CONTROLLED WITH SIMPLE METHODS, SUCH AS A SUMP PUMP ARRANGEMENT.
 - **COMPLEX GROUND CONDITIONS:** THE GROUND CONDITIONS INCLUDE VERY WEAK OR SENSITIVE SOILS, GROUNDWATER THAT REQUIRES SPECIALIST DEWATERING, OR LOCATIONS NEAR STRUCTURES AND SENSITIVE INFRASTRUCTURE. THESE CONDITIONS WOULD RESULT IN AN ELEVATED RISK WHEN CONSTRUCTING THE EXCAVATION.
- STORMWATER NOTES**
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1	ISSUED FOR DISCUSSION				AS	APR 2025	DESIGNED	AS				STORMWATER LONGSECTIONS				SCALE	H 1:1000 V 1:200 @ A3		2
2	ISSUED FOR CONSENT				AS	JUN 2025	DRAWN	AS				SHEET 1				COUNCIL	HASTINGS DISTRICT COUNCIL		
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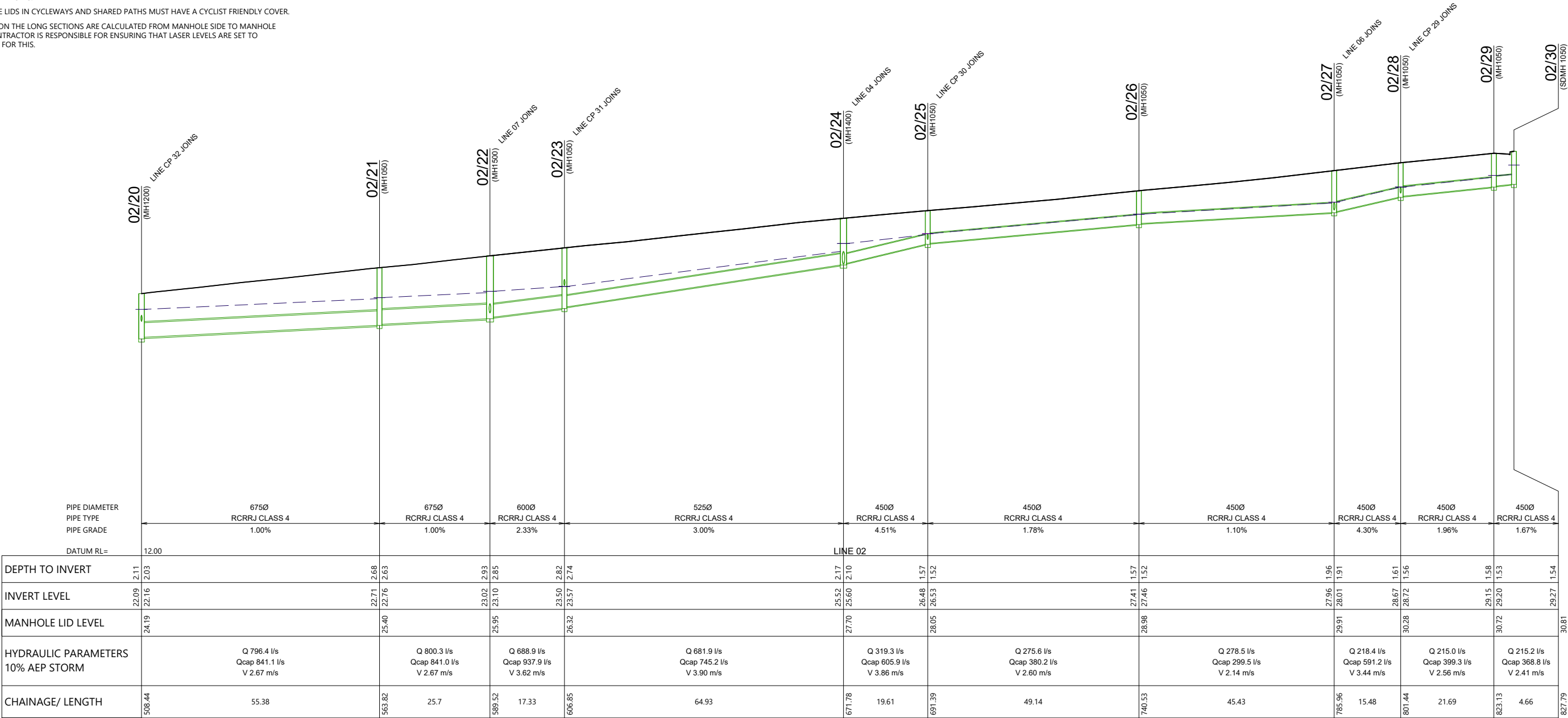
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							CHECKED	BLO								DWG NO	P24-244-00-3501-DR	
							APPROVED	BF										



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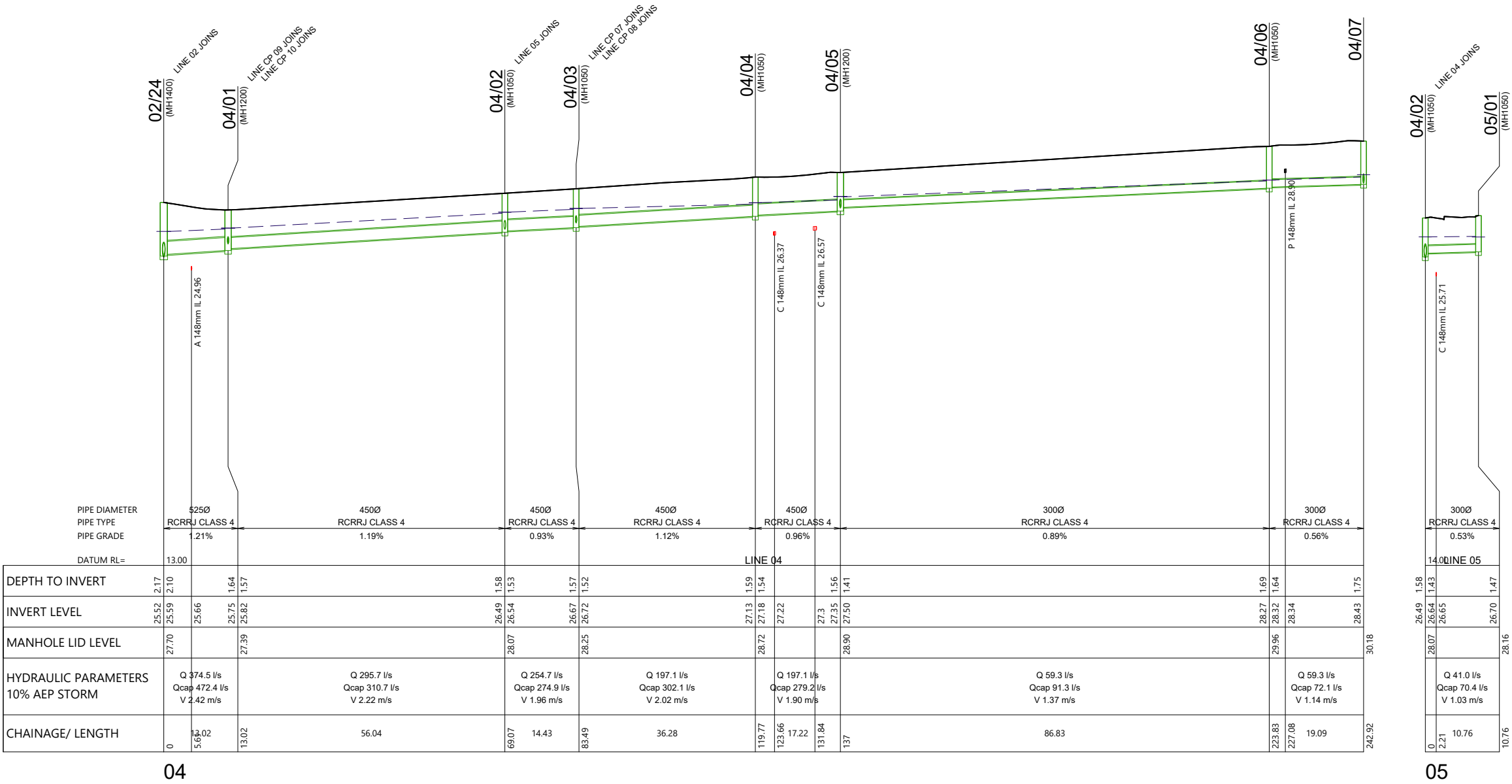
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2	ISSUED FOR CONSENT	AS	JUN 2025	DRAWN	AS				SHEET 3			COUNCIL	HASTINGS DISTRICT COUNCIL	
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STORMWATER NOTES

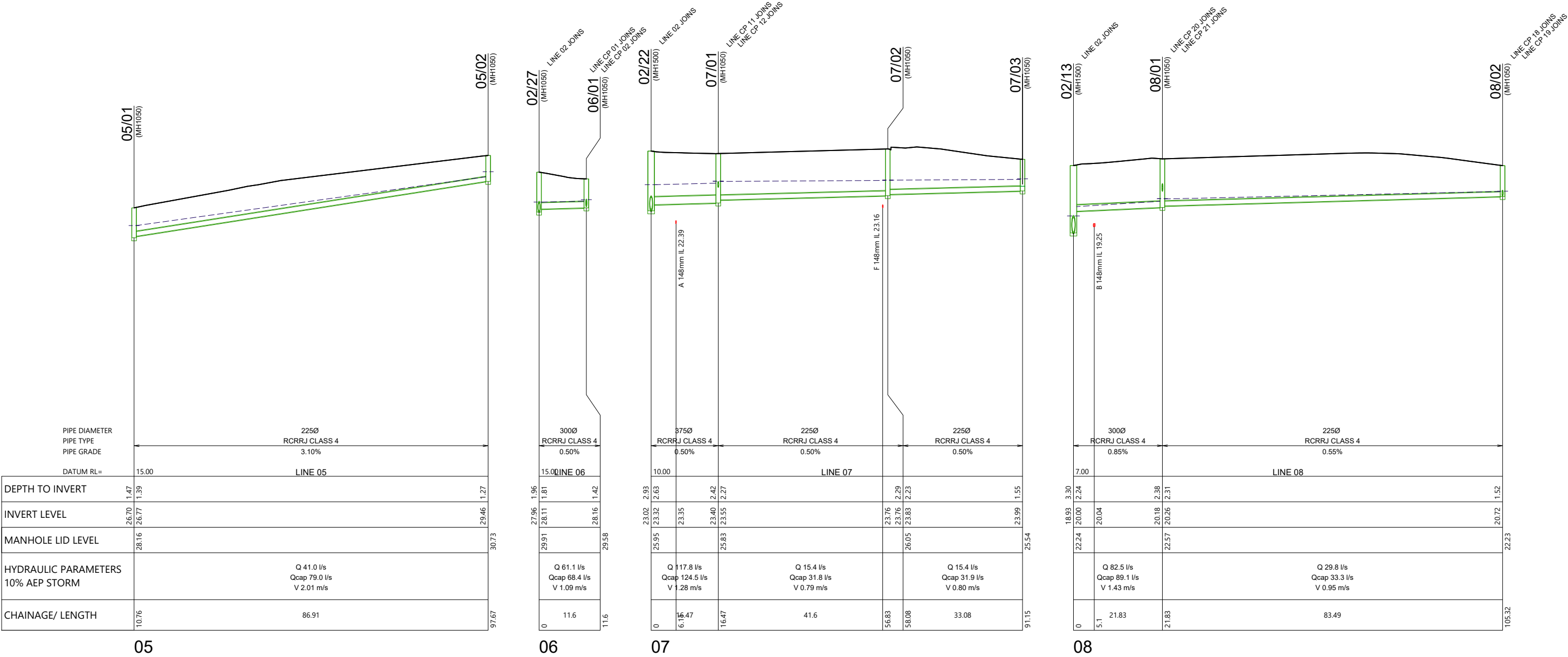
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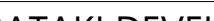


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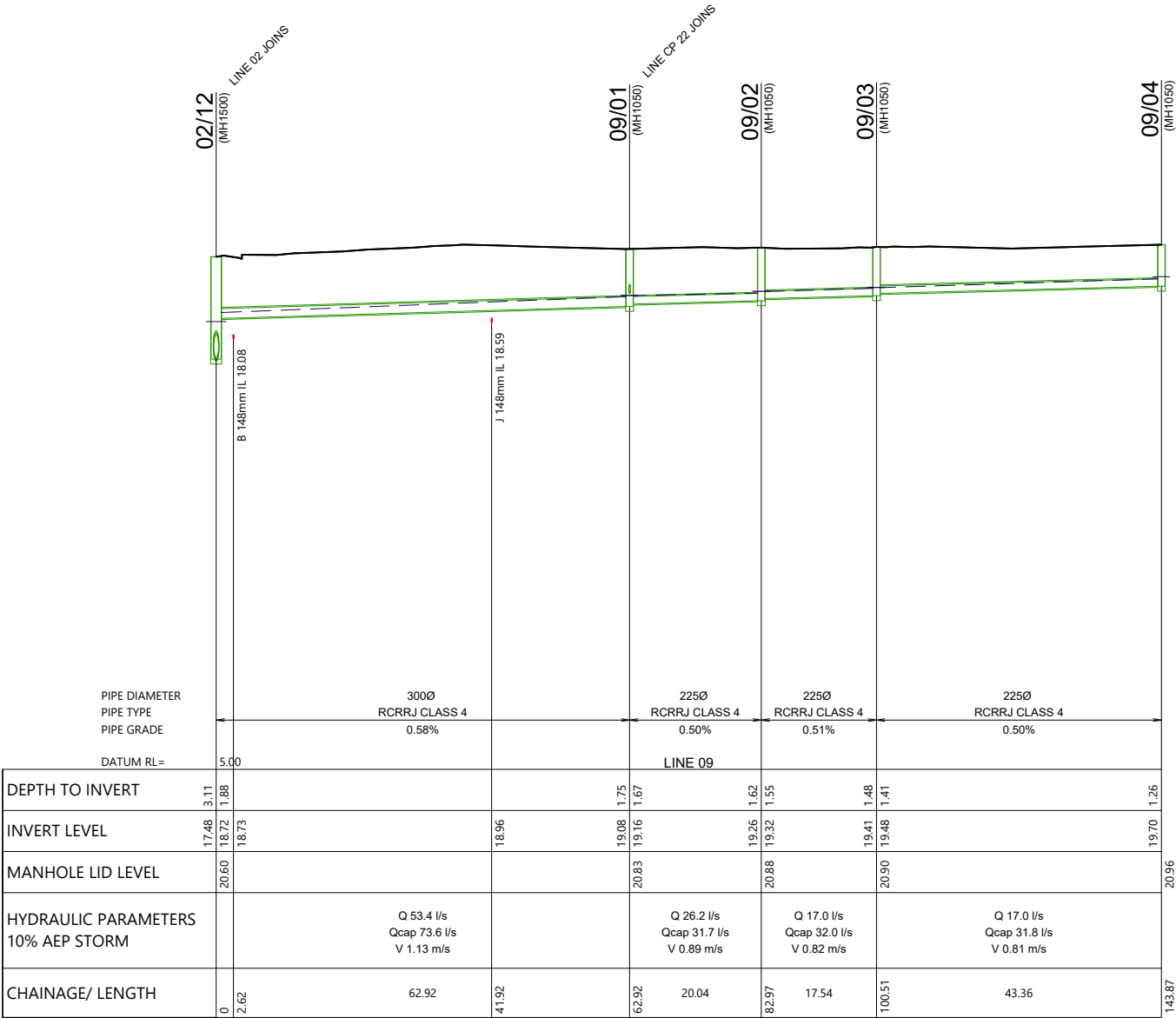
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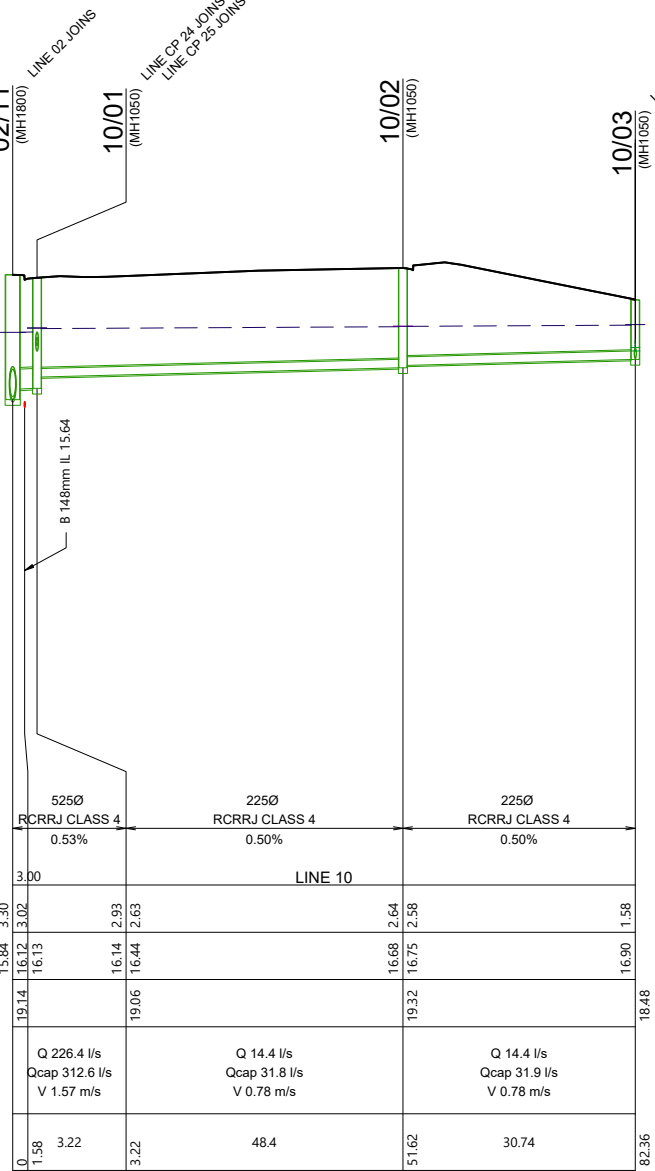
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								APPROVED	BF											

STORMWATER NOTES

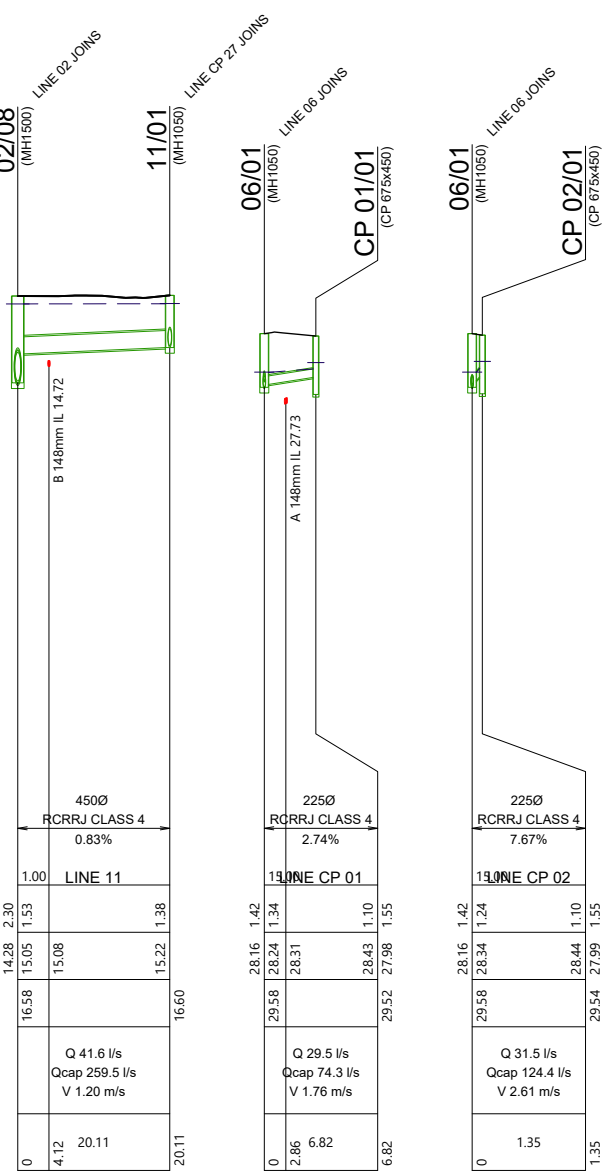
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CP 01

CP 02



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BUILDING B, LEVEL 1
8 NUGENT ST, GRAFTON,
AUCKLAND 1023
+64 9 308 9229

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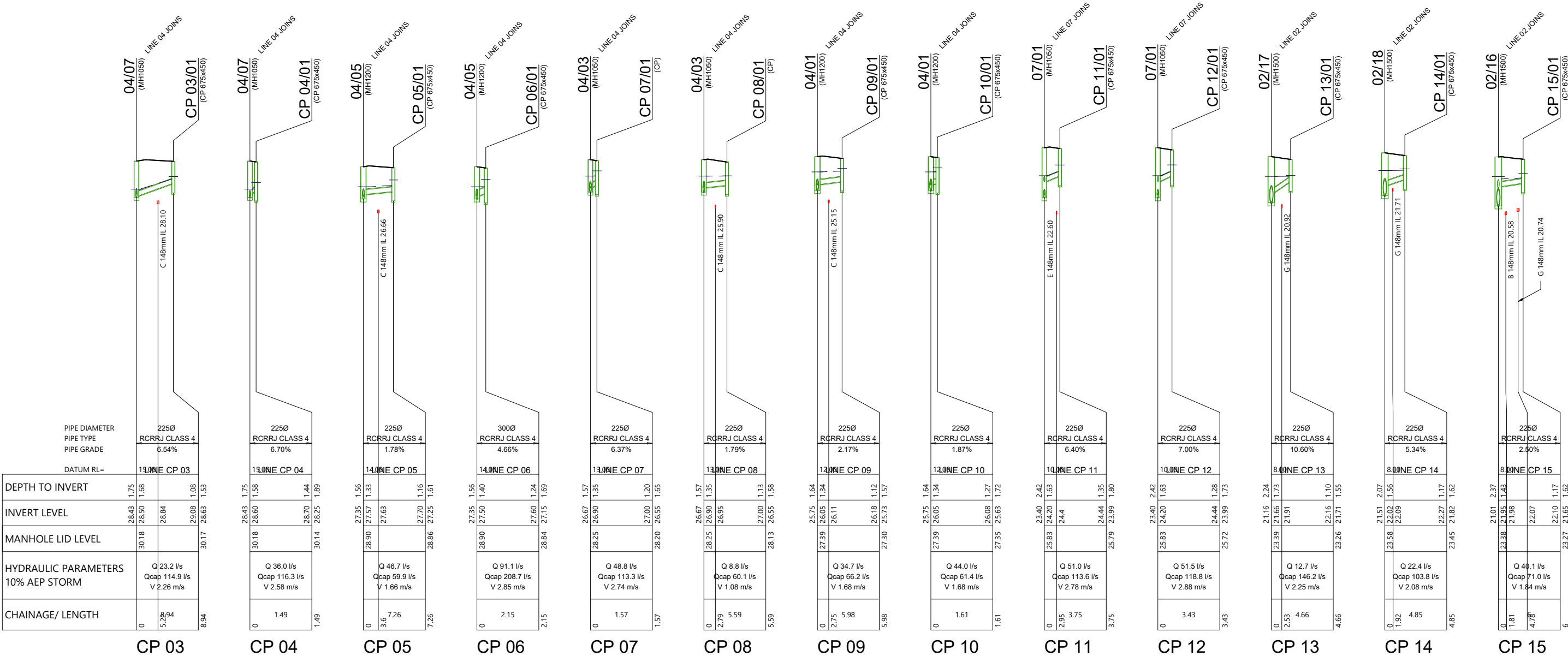
ARATAKI DEVELOPMENT - HAVELOCK NORTH
STORMWATER LONGSECTIONS
SHEET 6

STATUS	ISSUED FOR CONSENT	REV
SCALE	H 1:1000 V 1:200 @ A3	2
COUNCIL	HASTINGS DISTRICT COUNCIL	
DWG NO	P24-244-00-3505-DR	



STORMWATER NOTES

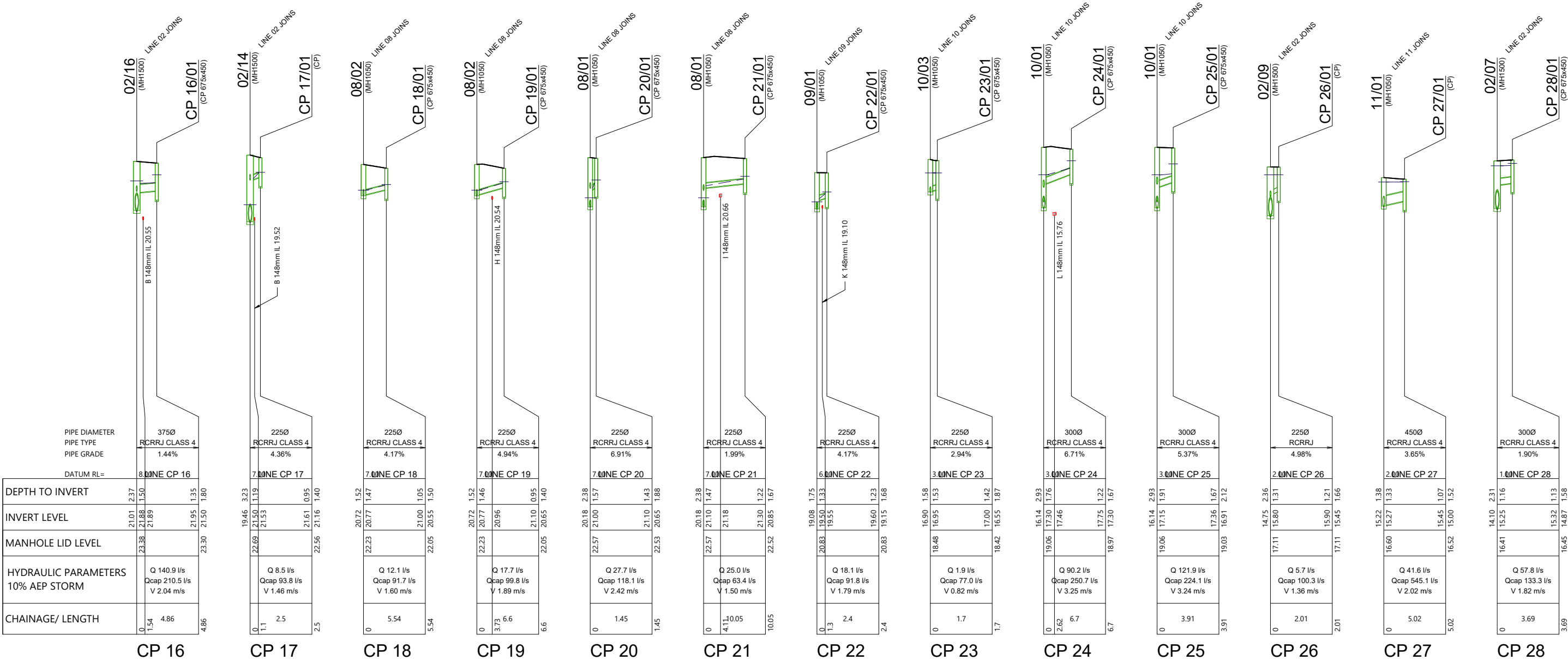
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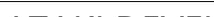


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								APPROVED				BF							

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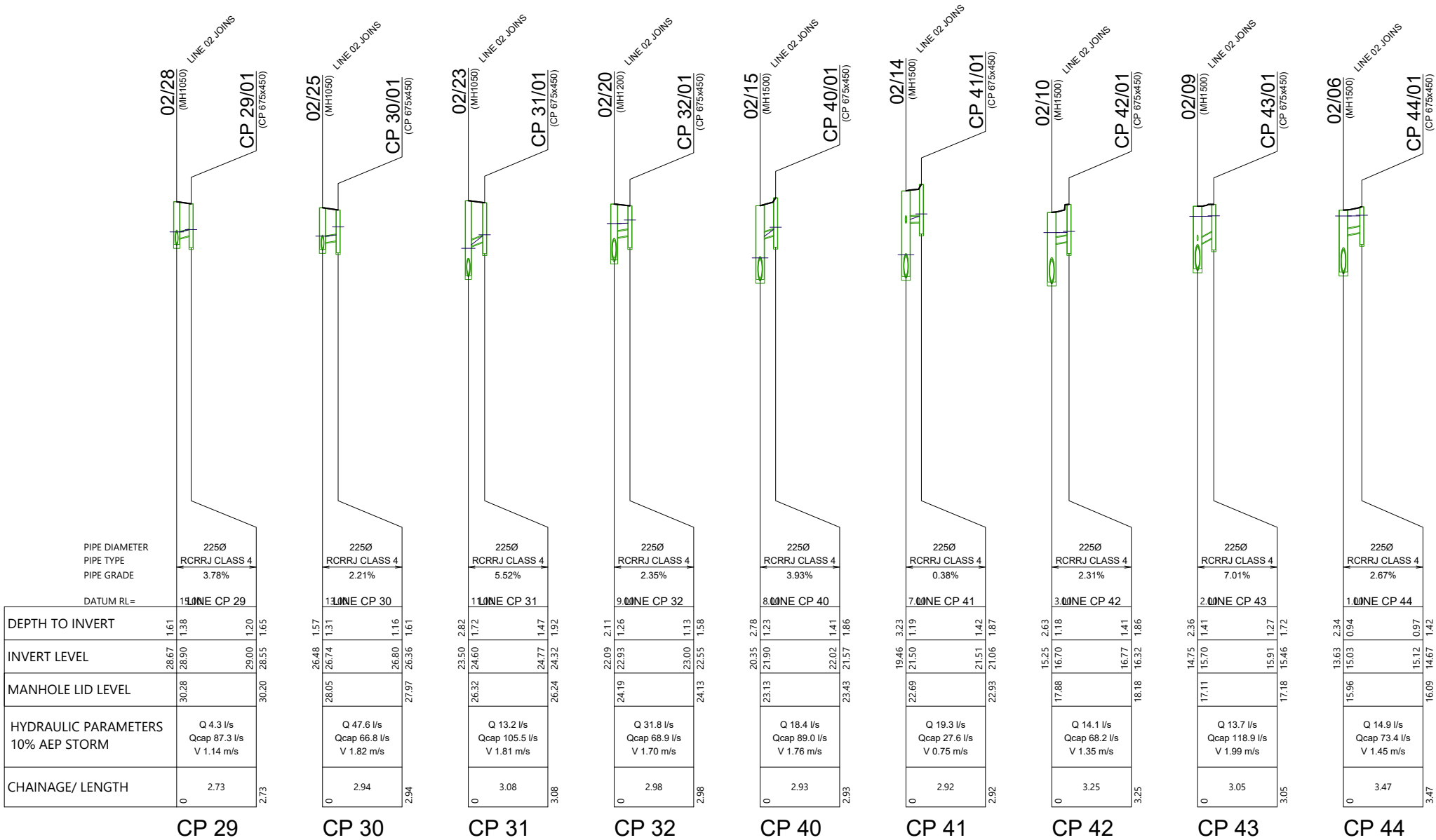
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STORMWATER NOTES

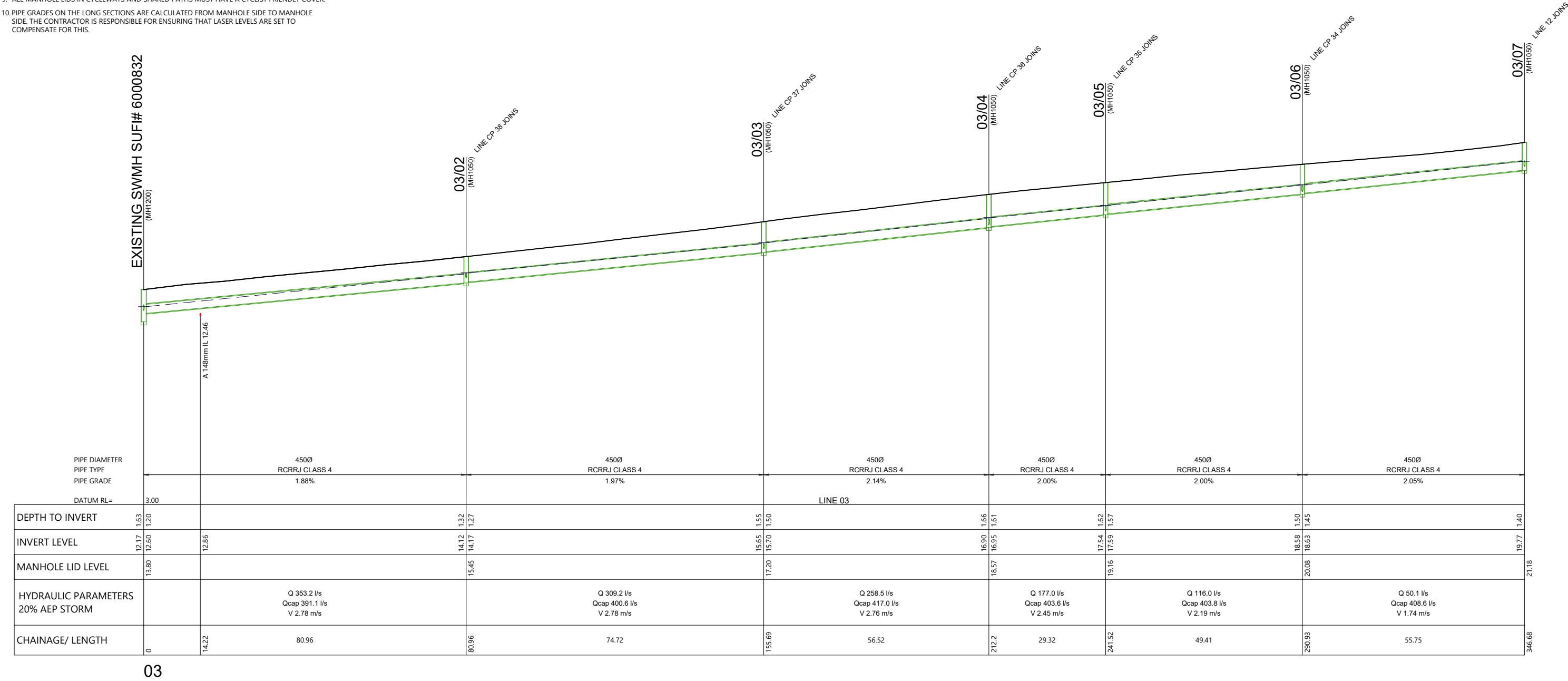
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REVISION DETAILS						BUILDING B, LEVEL 1 8 NUGENT ST, GRAFTON, AUCKLAND 1023 +64 9 308 9229 WOODS.CO.NZ		ARATAKI DEVELOPMENT - HAVELOCK NORTH STORMWATER LONGSECTIONS SHEET 9			STATUS			2
1	ISSUED FOR DISCUSSION	AS	APR 2025	DESIGNED							SCALE	ISSUED FOR CONSENT		
2	ISSUED FOR CONSENT	AS	JUN 2025	DRAWN							COUNCIL	HASTINGS DISTRICT COUNCIL		
				CHECKED							DWG NO	P24-244-00-3508-DR		
				APPROVED										



STORMWATER NOTES

1. ALL WORKS & MATERIALS TO COMPLY WITH HASTINGS DISTRICT COUNCIL STANDARDS.
2. FOR PIPE BEDDING DETAILS REFER TO STANDARD DETAIL SHEETS UNLESS OTHERWISE NOTED ON THE DRAINAGE LONG SECTIONS IN WHICH CASE SUCH NOTES TAKE PRECEDENCE.
3. CONCRETE PIPES CLASSES ARE NOTED ON THE DRAINAGE LONG SECTIONS. ALL SUMP LEADS TO BE RCRRJ CLASS 4.
4. ALL PIPE CROSSINGS UNDER ROADS TO BE HARDFILL BACKFILLED.
5. ALL SW LOT CONNECTIONS TO BE 150MMØ, RAMPED RISERS ARE TO BE EXTENDED & CAPPED OFF WITHIN 1.0M OF THE FINISHED GROUND SURFACE.
6. SW LOT CONNECTIONS ARE VIA KERB OUTLETS UNLESS OTHERWISE STATED. KERB OUTLETS TO FOLLOW HASTINGS DISTRICT COUNCIL ENGINEERING CODE OF PRACTICE STANDARD DRAWINGS WS 105 AND WS 106.
7. ALL MANHOLES TO BE 1050MMØ UNLESS OTHERWISE NOTED ON THE DRAINAGE LONG SECTION IN WHICH CASE SUCH NOTES SHALL TAKE PRECEDENCE.
8. THE CONTRACTOR IS TO PEG MANHOLES & CHECK FINISHED LEVELS (MH LID LEVELS) PRIOR TO ORDERING MANHOLES.
9. ALL MANHOLE LIDS IN CYCLEWAYS AND SHARED PATHS MUST HAVE A CYCLIST FRIENDLY COVER.
10. PIPE GRADES ON THE LONG SECTIONS ARE CALCULATED FROM MANHOLE SIDE TO MANHOLE SIDE. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT LASER LEVELS ARE SET TO COMPENSATE FOR THIS.



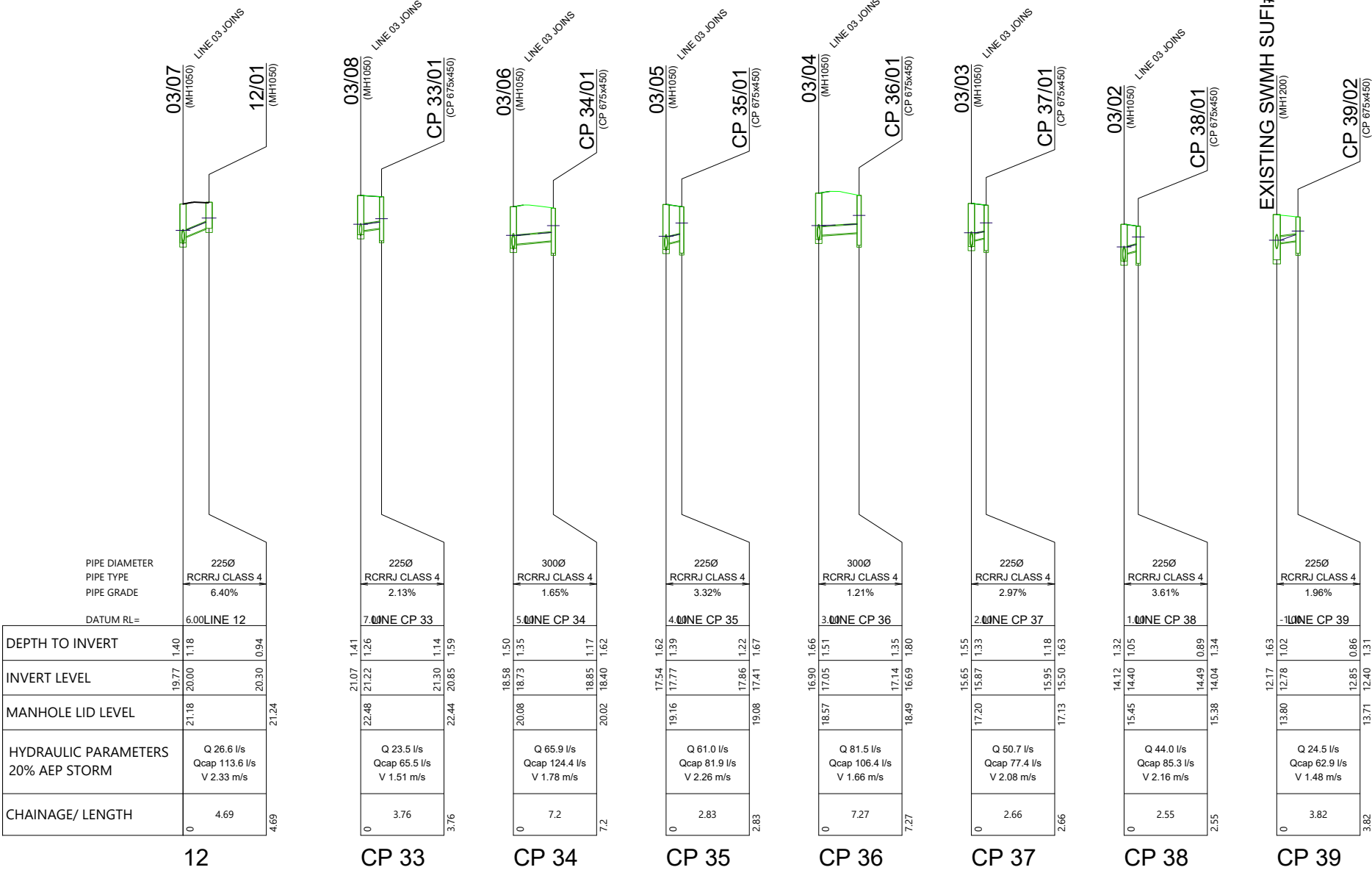
03





REVISION DETAILS		INT	DATE	SURVEYED	WOODS		BUILDING B, LEVEL 1 8 NUGENT ST, GRAFTON, AUCKLAND 1023 +64 9 308 9229 WOODS.CO.NZ		ARATAKI DEVELOPMENT - HAVELOCK NORTH			STATUS	ISSUED FOR CONSENT	REV
1	ISSUED FOR DISCUSSION	AS	APR 2025	DESIGNED	AS				STORMWATER LONGSECTIONS			SCALE	H 1:1000 V 1:200 @ A3	2
2	ISSUED FOR CONSENT	AS	JUN 2025	DRAWN	AS				SHEET 10			COUNCIL	HASTINGS DISTRICT COUNCIL	
				CHECKED	BLO							DWG NO	P24-244-00-3509-DR	
				APPROVED	BF									

STORMWATER NOTES

- 1. ALL WORKS & MATERIALS TO COMPLY WITH HASTINGS DISTRICT COUNCIL STANDARDS.
- 2. FOR PIPE BEDDING DETAILS REFER TO STANDARD DETAIL SHEETS UNLESS OTHERWISE NOTED ON THE DRAINAGE LONG SECTIONS IN WHICH CASE SUCH NOTES TAKE PRECEDENCE.
- 3. CONCRETE PIPES CLASSES ARE NOTED ON THE DRAINAGE LONG SECTIONS. ALL SUMP LEADS TO BE RCRRJ CLASS 4.
- 4. ALL PIPE CROSSINGS UNDER ROADS TO BE HARDFILL BACKFILLED.
- 5. ALL SW LOT CONNECTIONS TO BE 150MMØ. RAMPED RISERS ARE TO BE EXTENDED & CAPPED OFF WITHIN 1.0M OF THE FINISHED GROUND SURFACE.
- 6. SW LOT CONNECTIONS ARE VIA KERB OUTLETS UNLESS OTHERWISE STATED. KERB OUTLETS TO FOLLOW HASTINGS DISTRICT COUNCIL ENGINEERING CODE OF PRACTICE STANDARD DRAWINGS WS 105 AND WS 106.
- 7. ALL MANHOLES TO BE 1050MMØ UNLESS OTHERWISE NOTED ON THE DRAINAGE LONG SECTION IN WHICH CASE SUCH NOTES SHALL TAKE PRECEDENCE.
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- 9. ALL MANHOLE LIDS IN CYCLEWAYS AND SHARED PATHS MUST HAVE A CYCLIST FRIENDLY COVER.
- 10. PIPE GRADES ON THE LONG SECTIONS ARE CALCULATED FROM MANHOLE SIDE TO MANHOLE SIDE. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT LASER LEVELS ARE SET TO COMPENSATE FOR THIS.



REVISION DETAILS		INT	DATE	SURVEYED	WOODS		BUILDING B, LEVEL 1 8 NUGENT ST, GRAFTON, AUCKLAND 1023 +64 9 308 9229 WOODS.CO.NZ		ARATAKI DEVELOPMENT - HAVELOCK NORTH			STATUS	ISSUED FOR CONSENT	REV
1	ISSUED FOR DISCUSSION	AS	APR 2025	DESIGNED	AS				SCALE	H 1:1000 V 1:200 @ A3	2			
2	ISSUED FOR CONSENT	AS	JUN 2025	DRAWN	AS				COUNCIL	HASTINGS DISTRICT COUNCIL				
				CHECKED	BLO				DWG NO	P24-244-00-3510-DR				
				APPROVED	BF									

LEGEND

PROPOSED STORMWATER LINE AND PIT



PROPOSED SUMP



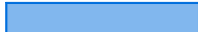
PROPOSED RAINGARDEN



CATCHMENT 1



CATCHMENT 2

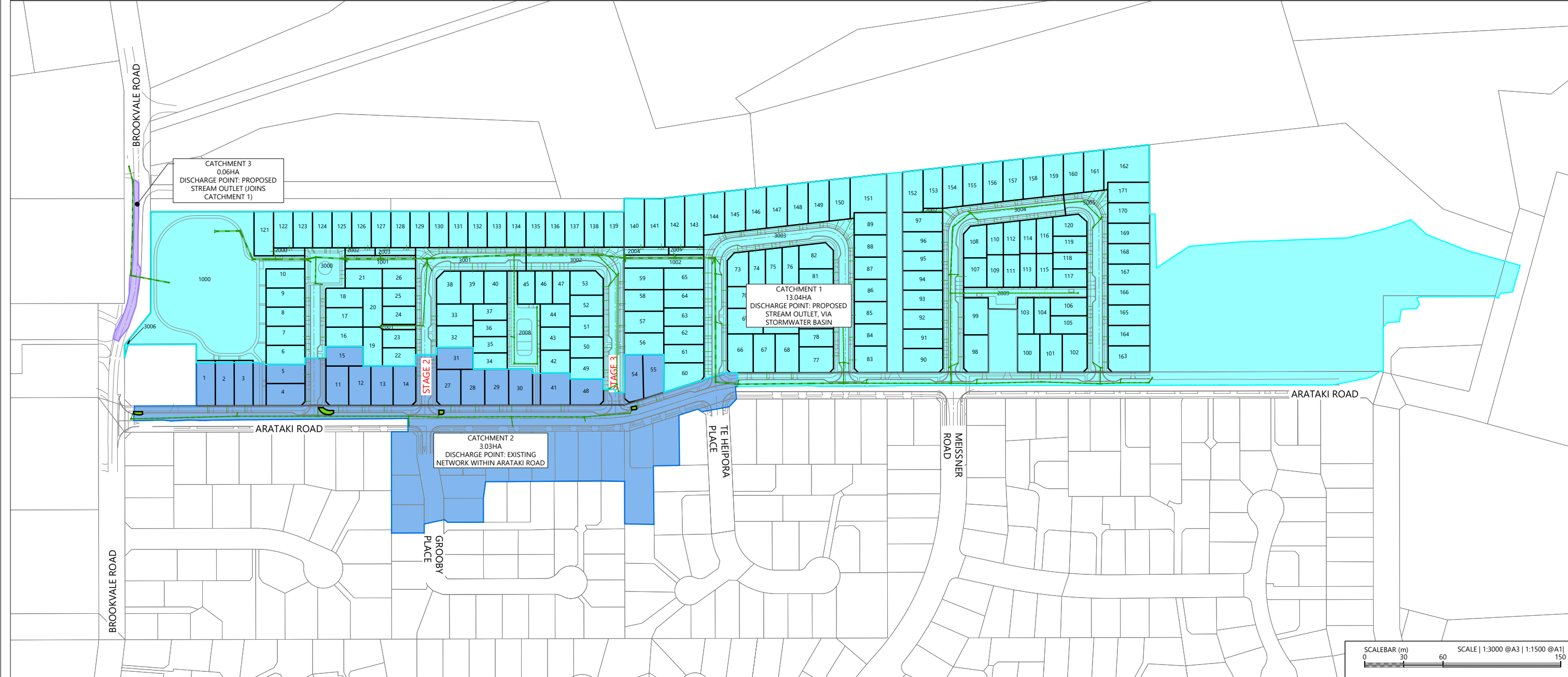


CATCHMENT 3



NOTES

1. ALL WORKS & MATERIALS TO COMPLY WITH HASTINGS DISTRICT COUNCIL STANDARDS.
2. FOR PIPE BEDDING DETAILS REFER TO STANDARD DETAIL SHEETS UNLESS OTHERWISE NOTED ON THE DRAINAGE LONG SECTIONS IN WHICH CASE SUCH NOTES TAKE PRECEDENCE.
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REVISION DETAILS		INT	DATE	SURVEYED	WOODS
1	ISSUED FOR DISCUSSION	AS	APR 2025	DESIGNED	AS
2	ISSUED FOR CONSENT	AS	JUN 2025	DRAWN	AS
				CHECKED	BLO
				APPROVED	BF



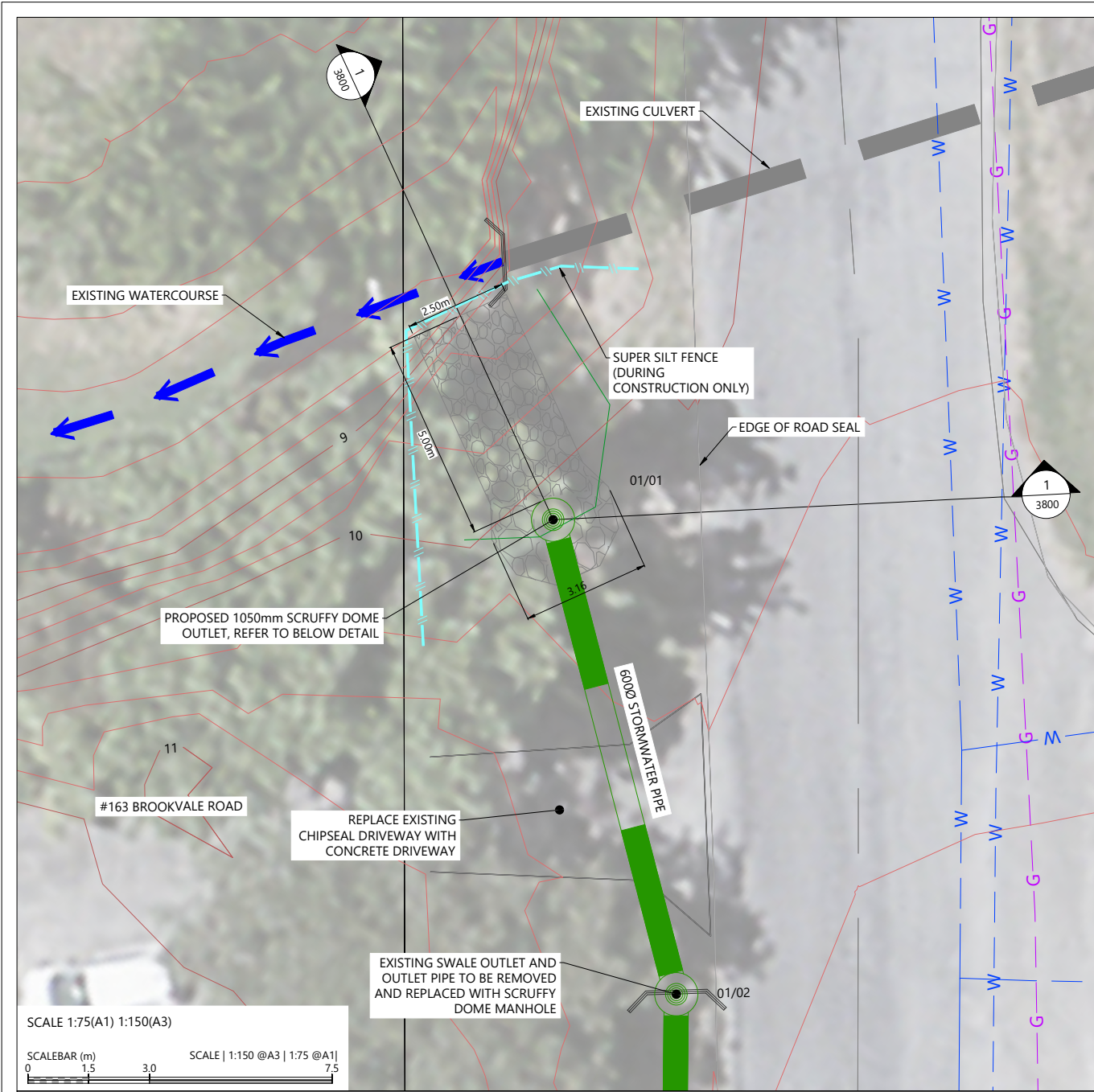
BUILDING B, LEVEL 1
8 NUGENT ST, GRAFTON,
AUCKLAND 1023
+64 9 308 9229
[WOODS.CO.NZ](https://www.woods.co.nz)



ARATAKI DEVELOPMENT - HAVELOCK NORTH
STORMWATER 10 YEAR CATCHMENT PLAN



SCALEBAR (m)		SCALE 1:3000 @A3 1:1500 @A1	
0	30	0	150
STATUS	ISSUED FOR CONSENT		REV
SCALE	1:3000 @ A3		2
COUNCIL	HASTINGS DISTRICT COUNCIL		
DWG NO	P24-244-00-3600-DR		



LEGEND

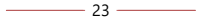
PROPOSED STORMWATER LINE AND PIT



PROPOSED RIPRAP



EXISTING CONTOURS (1m)



EXISTING MINOR CONTOURS (0.25m)



EXISTING WATERMAIN

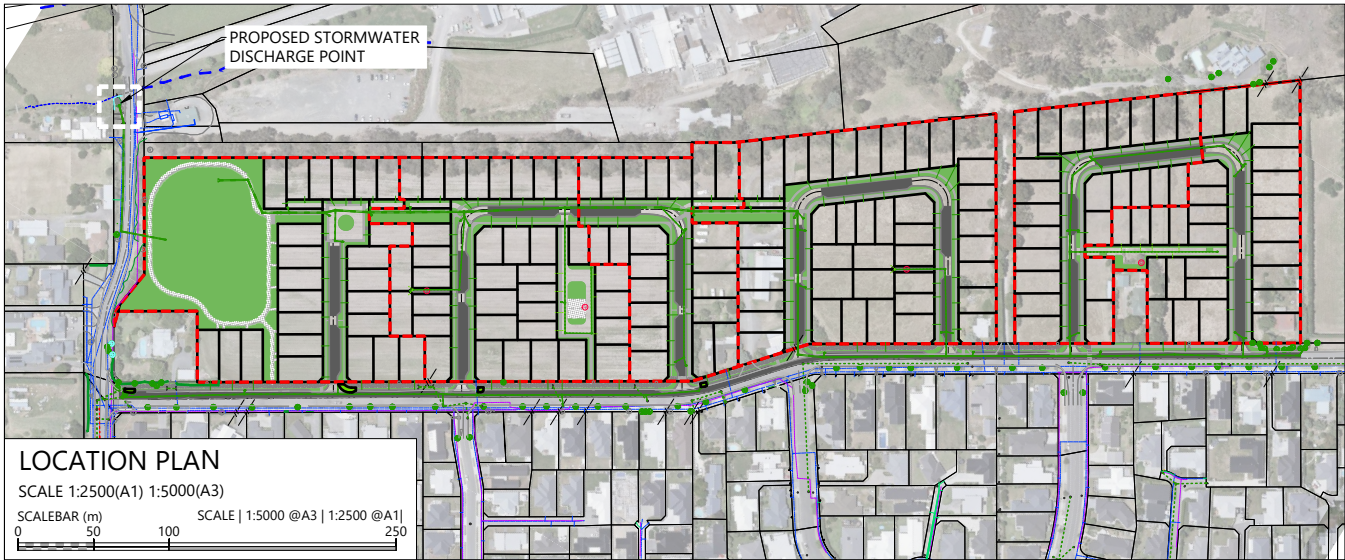


EXISTING GAS

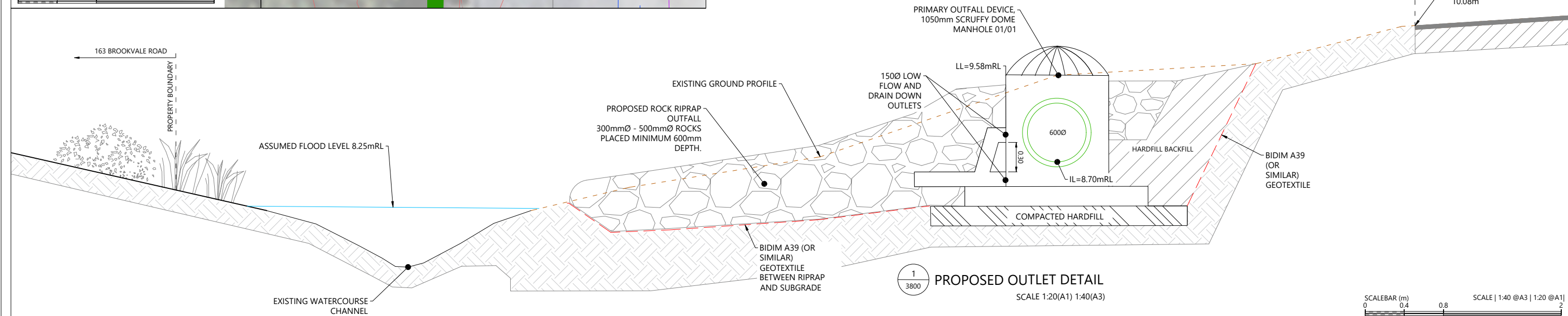


NOTES

1. ALL WORKS & MATERIALS TO COMPLY WITH HASTINGS DISTRICT COUNCIL STANDARDS.
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SUMARRY OF FLOWS FROM ARATAKI DEVELOPMENT TO EXISTING WATERCOURSE		
STORM EVENT	PRE-DEVELOPMENT FLOW (L/s)	POST-DEVELOPMENT FLOW (L/s)
2-YR	200	137
10-YR	447	348
100-YR	900 (ATTENUATION REQUIREMENT: 80% OF PRE-DEVELOPMENT LEVEL = 720L/S)	690



REVISION DETAILS		INT	DATE	SURVEYED	WOODS
1	ISSUED FOR DISCUSSION	AS	APR 2025	DESIGNED	AS
2	ISSUED FOR CONSENT	AS	JUN 2025	DRAWN	AS
				CHECKED	BLO
				APPROVED	BF

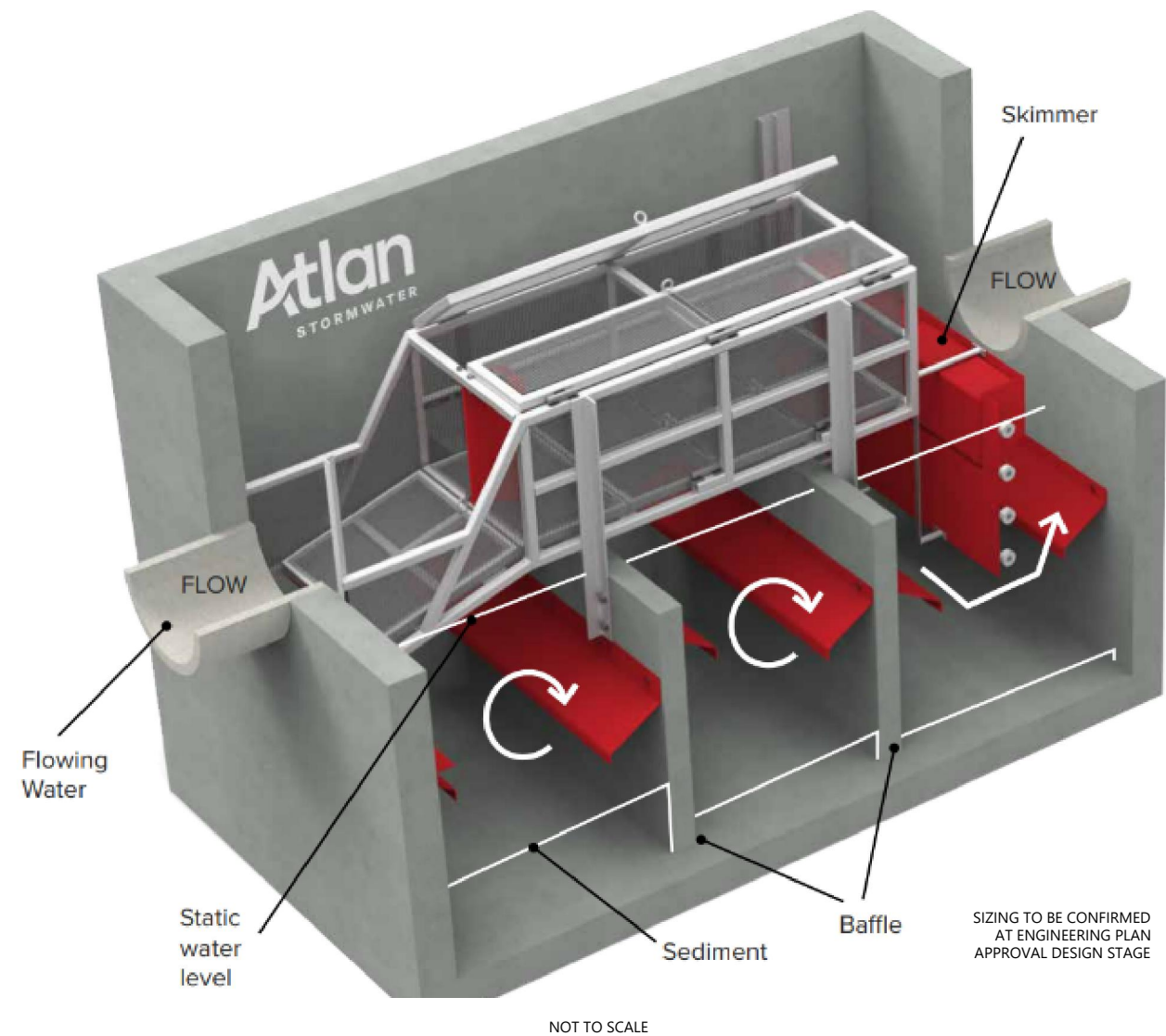
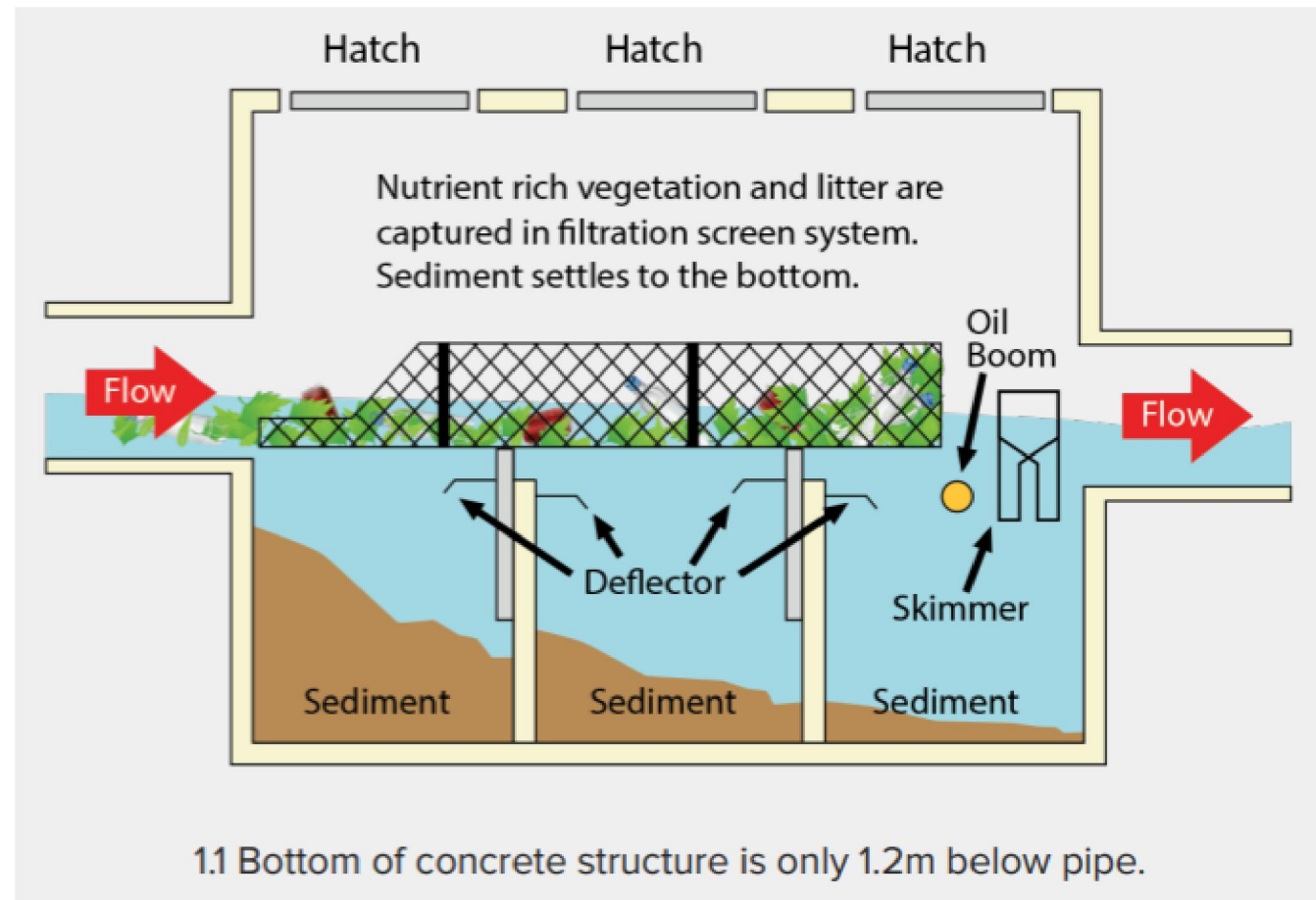
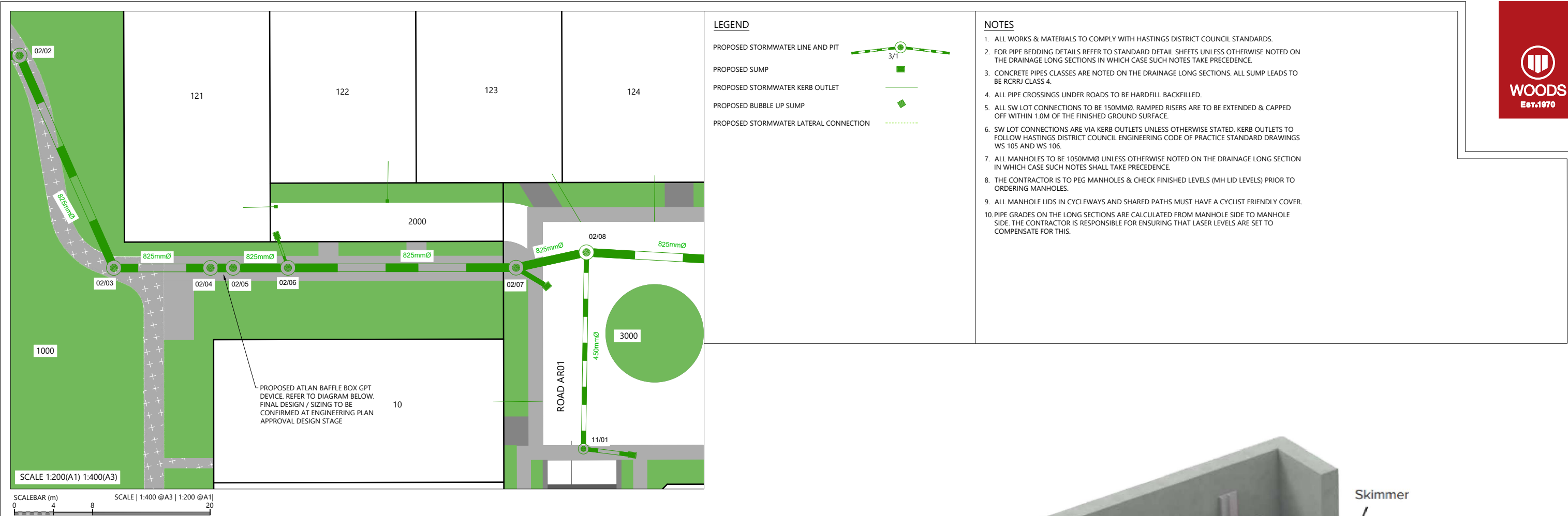
BUILDING B, LEVEL 1
8 NUGENT ST, GRAFTON,
AUCKLAND 1023
+64 9 308 9229
WOODS.CO.NZ



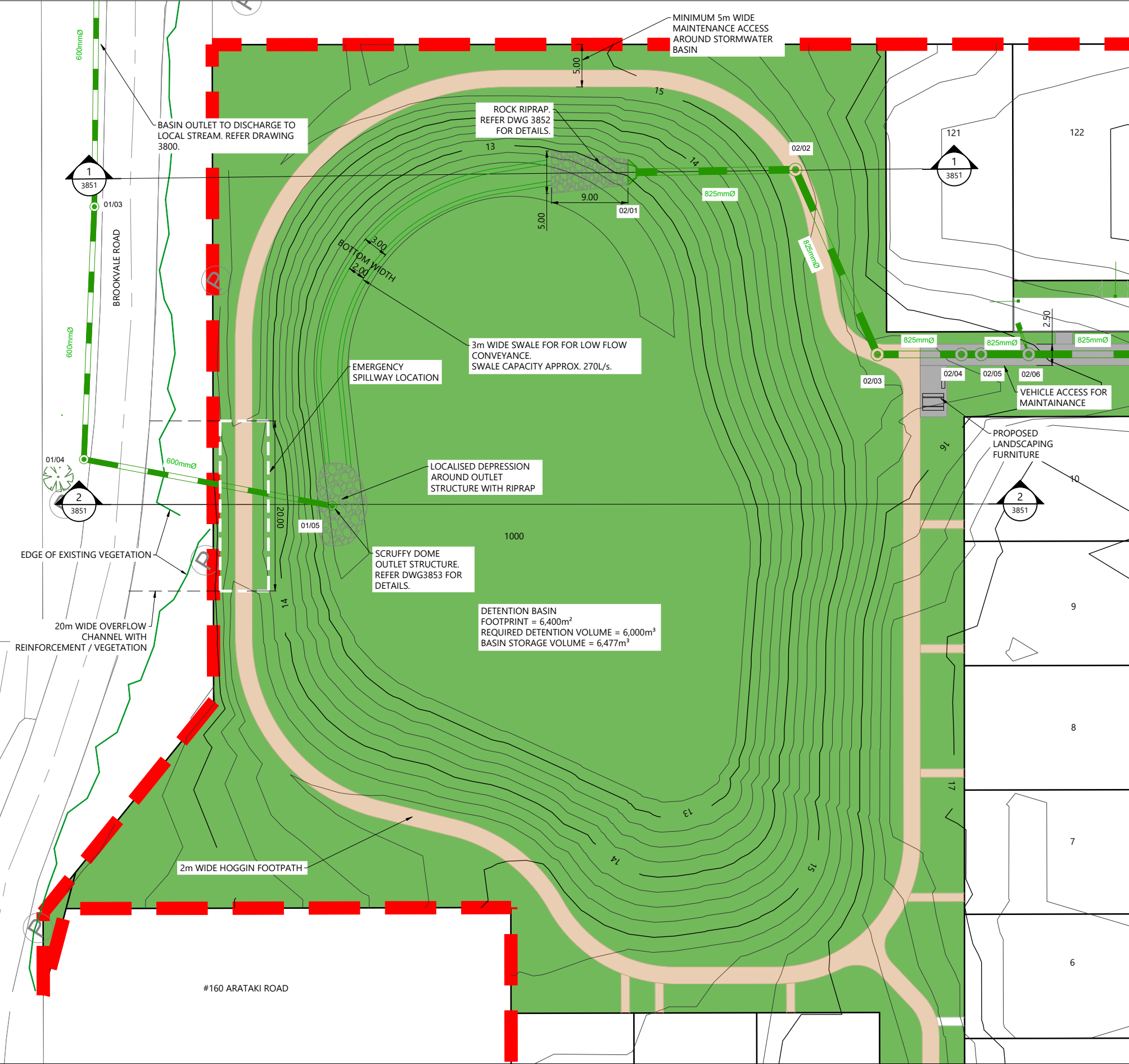
ARATAKI DEVELOPMENT - HAVELOCK NORTH
STORMWATER STREAM OUTLET DETAIL



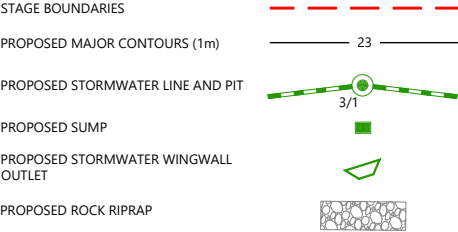
STATUS	ISSUED FOR CONSENT	REV
SCALE	AS SHOWN	2
COUNCIL	HASTINGS DISTRICT COUNCIL	
DWG NO	P24-244-00-3800-DR	



REVISION DETAILS		INT	DATE	SURVEYED	WOODS		BUILDING B, LEVEL 1 8 NUGENT ST, GRAFTON, AUCKLAND 1023 +64 9 308 9229 WOODS.CO.NZ		ARATAKI DEVELOPMENT - HAVELOCK NORTH				STATUS	ISSUED FOR CONSENT	REV
1	ISSUED FOR DISCUSSION	AS	APR 2025	DESIGNED	AS				STORMWATER GPT DETAIL				SCALE	1:400 @ A3	2
2	ISSUED FOR CONSENT	AS	JUN 2025	DRAWN	AS								COUNCIL	HASTINGS DISTRICT COUNCIL	
				CHECKED	BLO								DWG NO	P24-244-00-3810-DR	
				APPROVED	BF										



LEGEND



NOTES

1. STORMWATER DETENTION DRY BASIN TO BE LINED WITH IMPERMEABLE LINER AND DRAINED VIA SUBSOIL DRAINS. DETAILED DESIGN TO BE UNDERTAKEN AT ENGINEERING PLAN APPROVAL STAGE.
2. REFER APPENDIX D OF STORMWATER MANAGEMENT PLAN FOR DRY BASIN DESIGN DETAILS.
3. REFER LANDSCAPE DESIGN FOR PLANTING DETAILS.



REVISION DETAILS		INT	DATE	SURVEYED	WOODS
1	ISSUED FOR INFORMATION	AS	APR 2025	DESIGNED	AS
2	ISSUED FOR CONSENT	AS	JUN 2025	DRAWN	AS
				CHECKED	AB
				APPROVED	BF



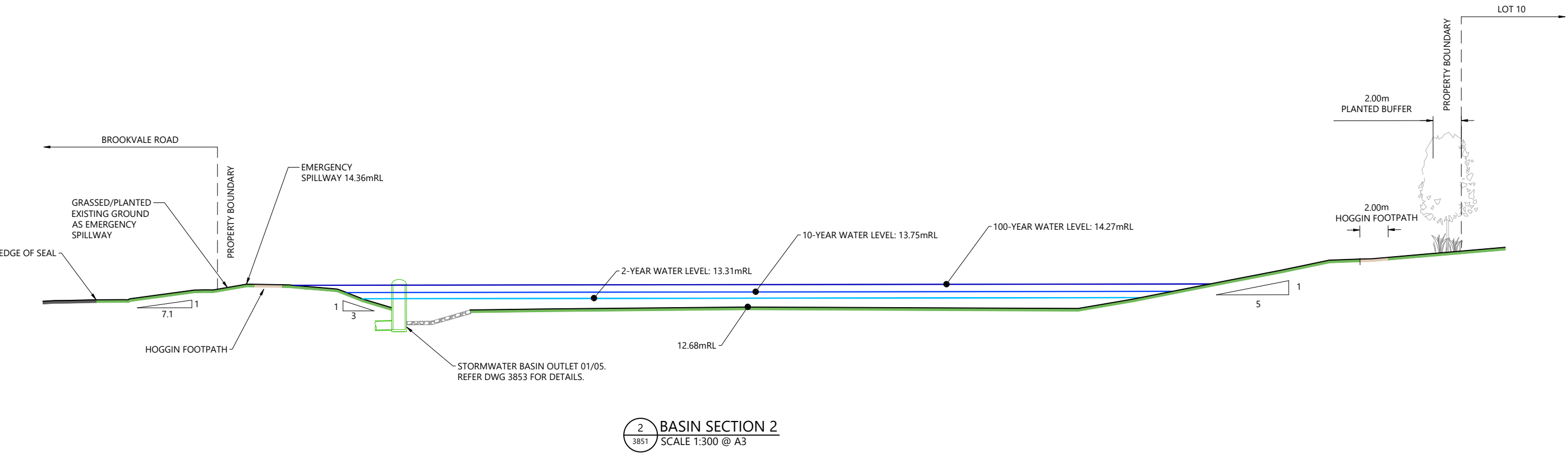
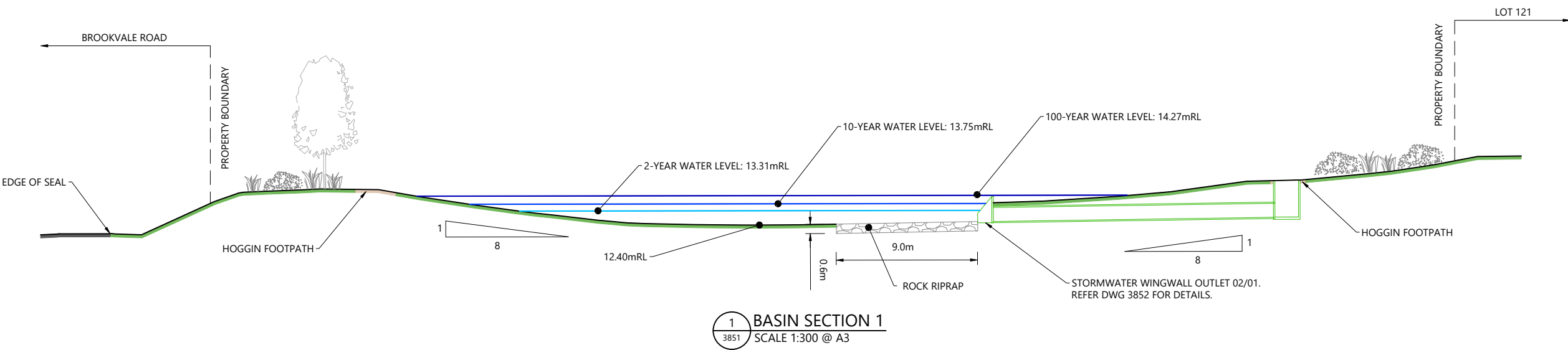
BUILDING B, LEVEL 1
8 NUGENT ST, GRAFTON,
AUCKLAND 1023
+64 9 308 9229
WOODS.CO.NZ



ARATAKI DEVELOPMENT - HAVELOCK NORTH
STORMWATER BASIN LAYOUT PLAN



STATUS	ISSUED FOR CONSENT	REV
SCALE	1:500 @ A3	2
COUNCIL	HASTINGS DISTRICT COUNCIL	
DWG NO	P24-244-00-3850-DR	



REVISION DETAILS				
1	ISSUED FOR INFORMATION	AS	APR 2025	DESIGNED AS
2	ISSUED FOR CONSENT	AS	JUN 2025	DRAWN AS
				CHECKED AB
				APPROVED BF



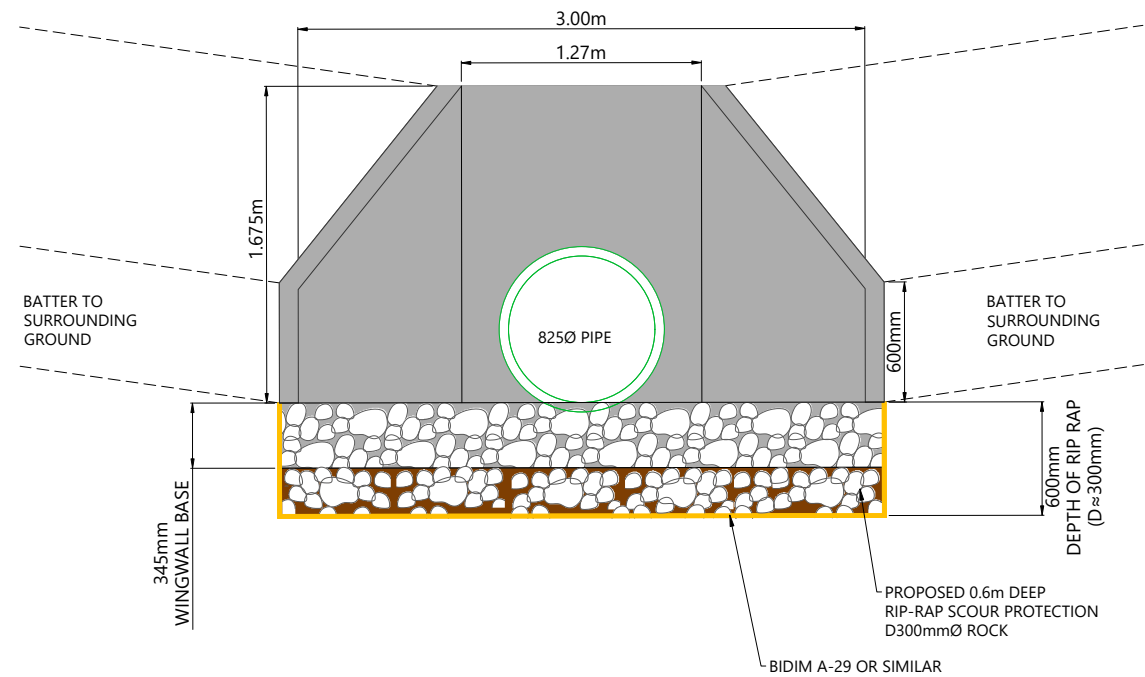
BUILDING B, LEVEL 1
8 NUGENT ST, GRAFTON,
AUCKLAND 1023
+64 9 308 9229
[WOODS.CO.NZ](https://www.woods.co.nz)



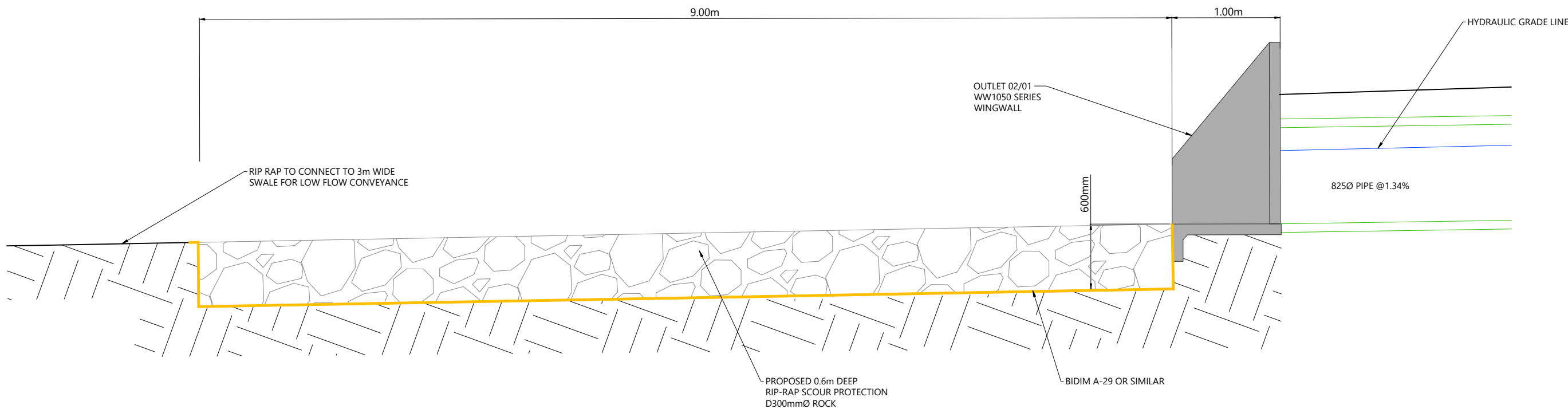
ARATAKI DEVELOPMENT - HAVELOCK NORTH

STORMWATER BASIN SECTIONS

STATUS	ISSUED FOR CONSENT	REV
SCALE	1:300 @ A3	2
COUNCIL	HASTINGS DISTRICT COUNCIL	
DWG NO	P24-244-00-3851-DR	




WINGWALL SECTION AT OUTLET 02/01



RIPRAP SECTION AT OUTLET 02/01

SCALEBAR (m) 0 0.4 0.8 1.2
SCALE | 1:40 @ A3 | 1:20 @ A1 |

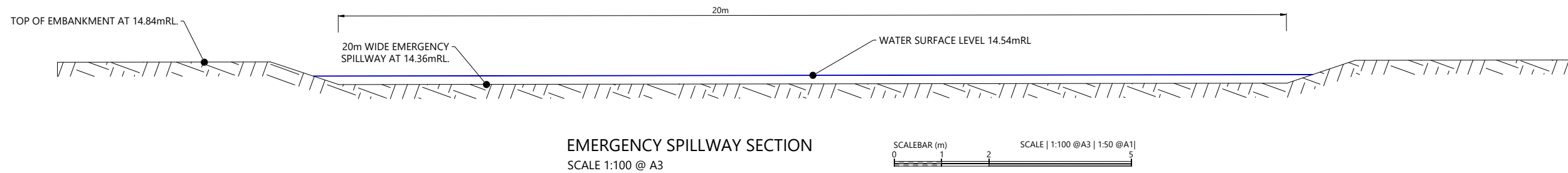
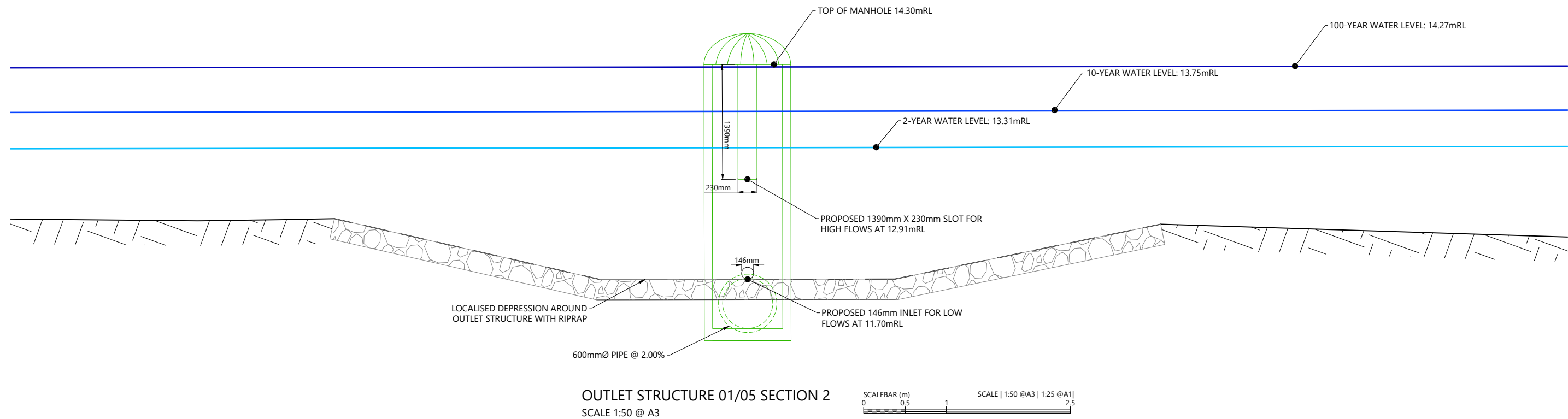
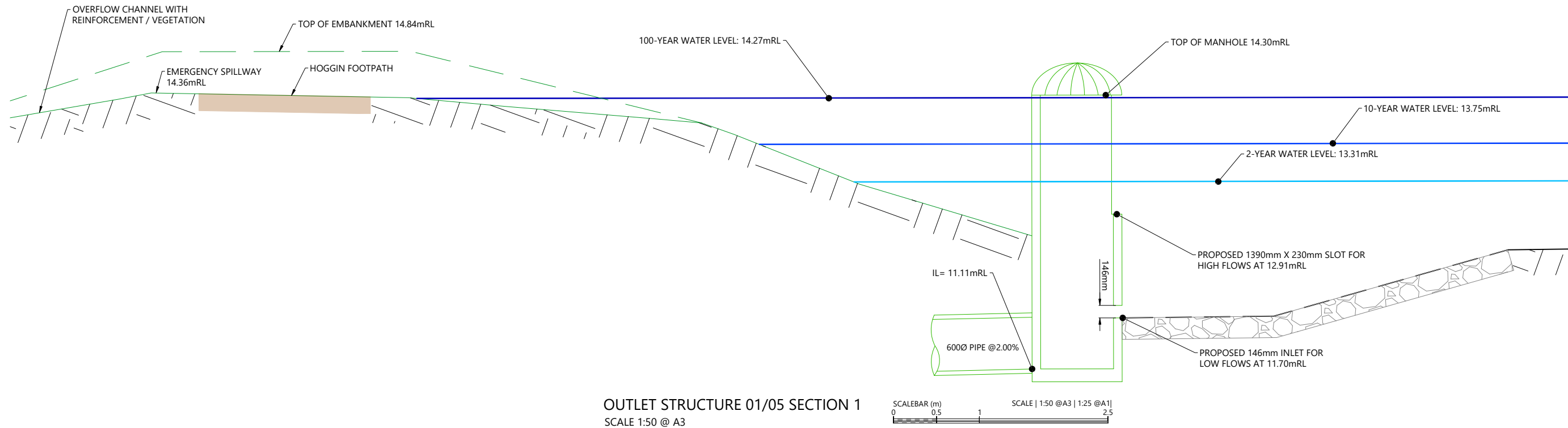
REVISION DETAILS					
1	ISSUED FOR INFORMATION	AS	APR 2025	DESIGNED	
2	ISSUED FOR CONSENT	AS	JUN 2025	DRAWN	
				CHECKED	
				APPROVED	

BUILDING B, LEVEL 1
8 NUGENT ST, GRAFTON,
AUCKLAND 1023
+64 9 308 9229
WOODS.CO.NZ



ARATAKI DEVELOPMENT - HAVELOCK NORTH
WINGWALL OUTLET 02/01 DETAILS

STATUS	ISSUED FOR CONSENT	REV
SCALE	1:40 @ A3	2
COUNCIL	HASTINGS DISTRICT COUNCIL	
DWG NO	P24-244-00-3852-DR	



REVISION DETAILS		INT	DATE	SURVEYED	WOODS
1	ISSUED FOR INFORMATION	AS	APR 2025	DESIGNED	BK
2	ISSUED FOR CONSENT	AS	JUN 2025	DRAWN	AS
				CHECKED	AB
				APPROVED	BF



BUILDING B, LEVEL 1
8 NUGENT ST, GRAFTON,
AUCKLAND 1023
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[WOODS.CO.NZ](https://www.woods.co.nz)



ARATAKI DEVELOPMENT - HAVELOCK NORTH

STORMWATER BASIN OUTLET 01/05 DETAILS

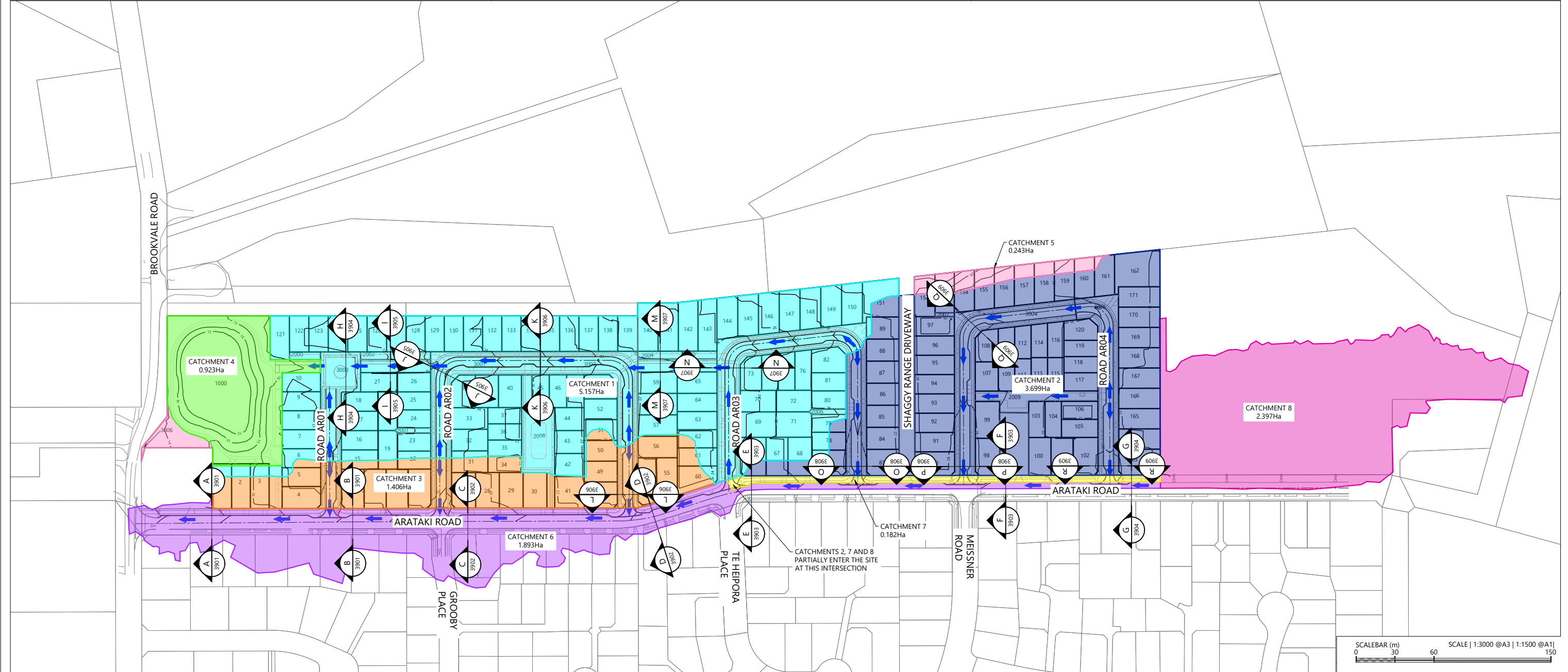
STATUS	ISSUED FOR CONSENT	2
SCALE	AS SHOWN	
COUNCIL	HASTINGS DISTRICT COUNCIL	
DWG NO	P24-244-00-3853-DR	

LEGEND

PROPOSED OVERLAND FLOW PATH	
PROPOSED MAJOR CONTOURS (1m)	
CATCHMENT 1 - SITE AREA DISCHARGING TO DRY POND	
CATCHMENT 2 - SITE AREA PARTIALLY DISCHARGING TO DRY POND	
CATCHMENT 3 - SITE AREA DISCHARGING TO ARATAKI ROAD	
CATCHMENT 4 - SITE RESERVE AREA DISCHARGING TO DRY POND	
CATCHMENT 5 - SITE AREA SHEETFLOWING TO SURROUNDING PROPERTIES	
CATCHMENT 6 - ARATAKI ROAD CATCHMENT	
CATCHMENT 7 - ARATAKI ROAD PARTIALLY DISCHARGING TO DRY POND	
CATCHMENT 8 - UPSTREAM CATCHMENT PARTIALLY DISCHARGING TO DRY POND	

NOTES

1. REFER DRAWINGS 3901-3909 FOR OVERLAND FLOW PATH CROSS SECTIONS.
2. OVERLAND FLOWS, DEPTHS AND VELOCITIES HAVE BEEN EXTRACTED FROM HEC-RAS 2D MODEL.
3. ALL ROADS CALCULATED TO HAVE A $d \times v$ LESS THAN $0.4m^2/s$ AT KERB INVERT.



REVISION DETAILS	INT	DATE	SURVEYED	WOODS
1 ISSUED FOR DISCUSSION	AS	APR 2025	DESIGNED	AS
2 ISSUED FOR CONSENT	AS	MAY 2025	DRAWN	AS
			CHECKED	BLO
			APPROVED	BF



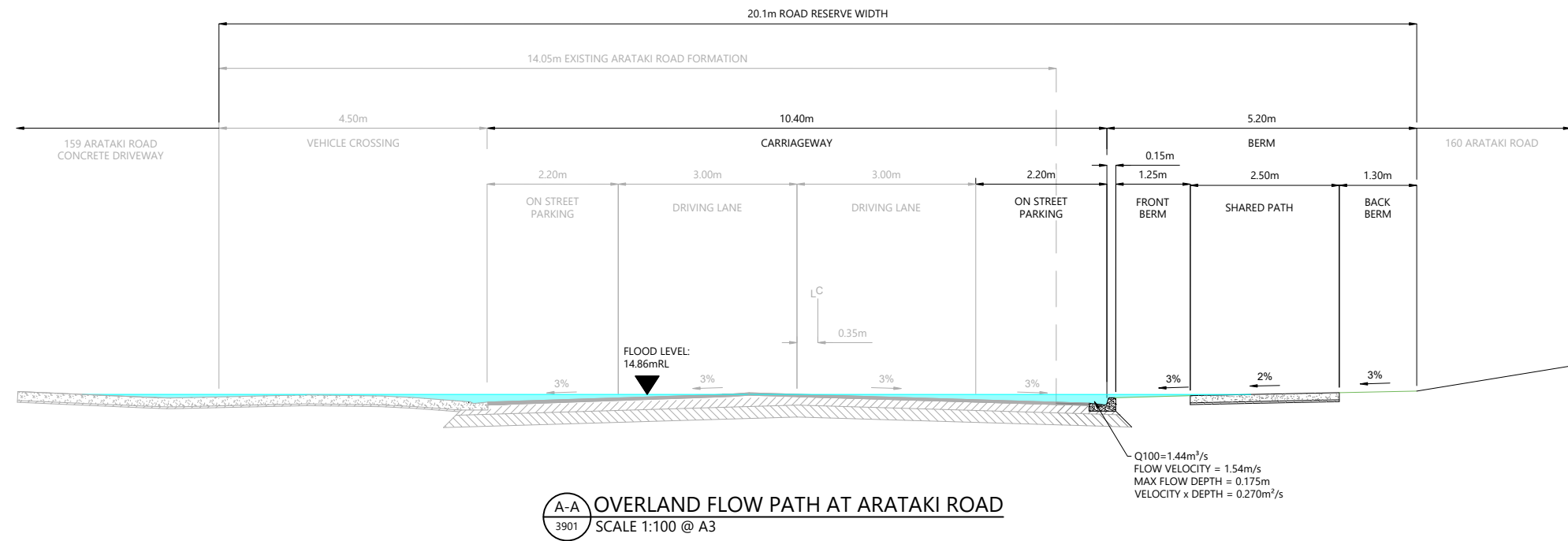
BUILDING B, LEVEL 1
8 NUGENT ST, GRAFTON,
AUCKLAND 1023
+64 9 308 9229
WOODS.CO.NZ



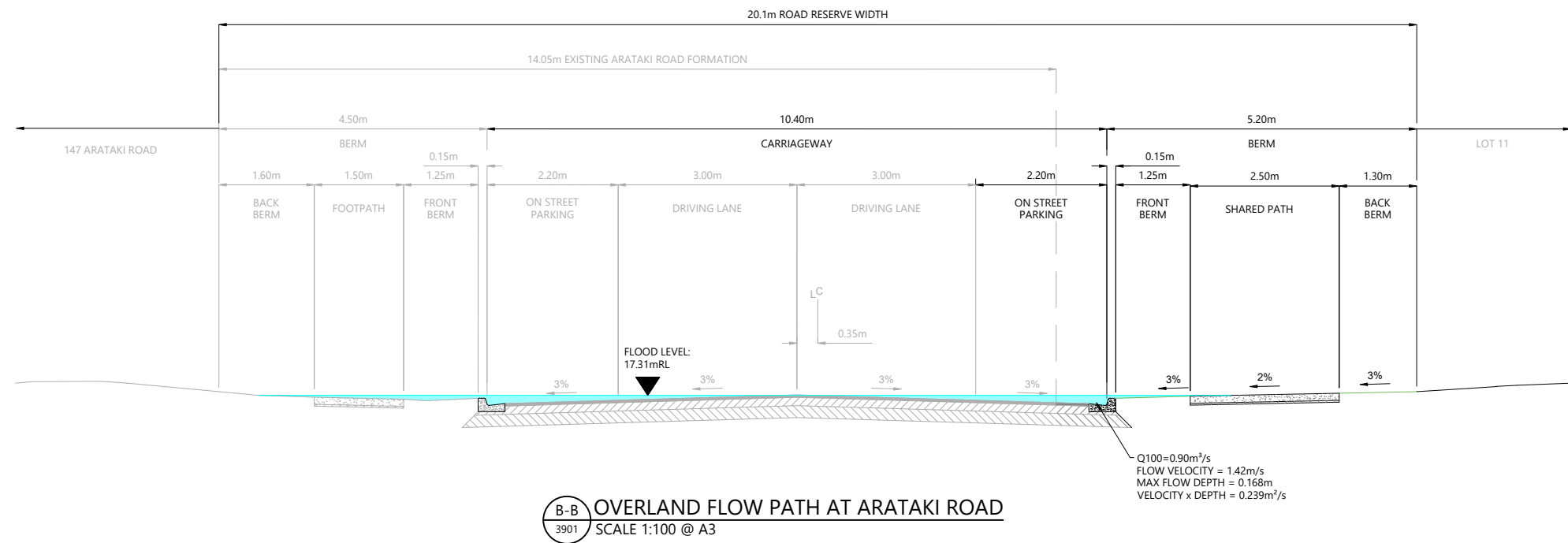
ARATAKI DEVELOPMENT - HAVELOCK NORTH
OVERLAND FLOW PATH
POST-DEVELOPMENT PLAN



<div>SCALEBAR (m)<div>03060</div></div> <div>SCALE 1:3000 @A3 1:1500 @A1 <div>150</div></div>		
STATUS	ISSUED FOR CONSENT	REV
SCALE	1:3000 @ A3	2
COUNCIL	HASTINGS DISTRICT COUNCIL	
DWG NO	P24-244-00-3900-DR	



- NOTES
- OVERLAND FLOWS, DEPTHS AND VELOCITIES HAVE BEEN EXTRACTED FROM HEC-RAS 2D MODEL.
 - ALL ROADS CALCULATED TO HAVE A d x v LESS THAN 0.4m²/s AT KERB INVERT.



REVISION DETAILS					
1	ISSUED FOR INFORMATION	AS	APR 2025	DESIGNED	
2	ISSUED FOR CONSENT	AS	JUN 2025	DRAWN	
				CHECKED	
				APPROVED	

BUILDING B, LEVEL 1
8 NUGENT ST, GRAFTON,
AUCKLAND 1023
+64 9 308 9229

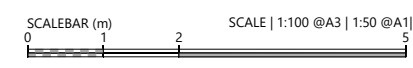
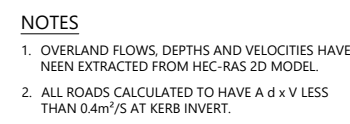
WOODS.CO.NZ





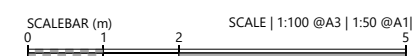
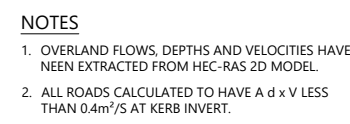
ARATAKI DEVELOPMENT - HAVELOCK NORTH



OVERLAND FLOW SECTIONS

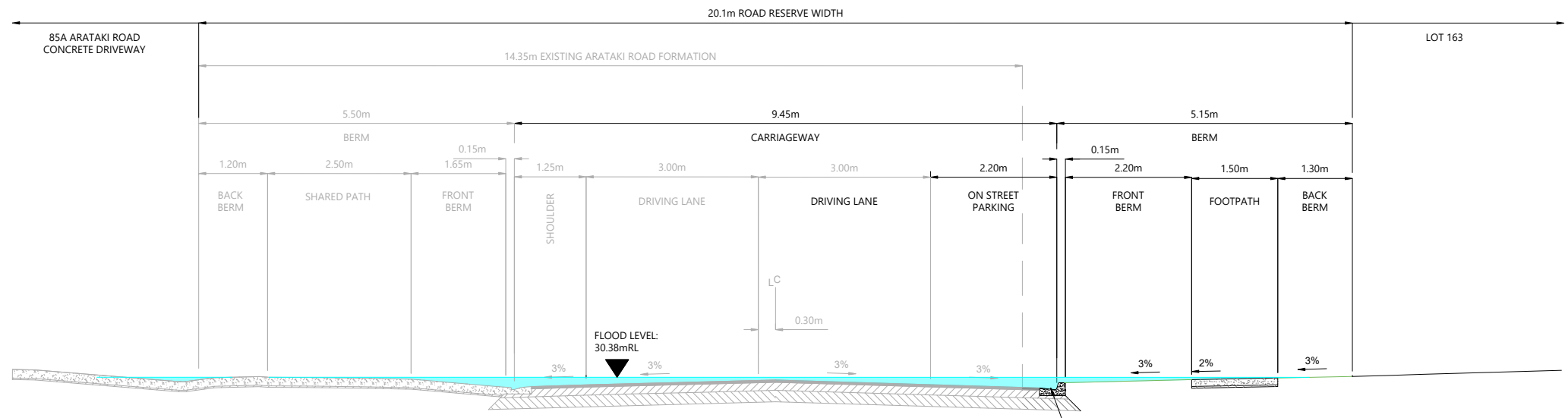
STATUS	ISSUED FOR CONSENT	2
SCALE	1:100 @ A3	
COUNCIL	HASTINGS DISTRICT COUNCIL	
DWG NO	P24-244-00-3901-DR	



REVISION DETAILS		INT	DATE	SURVEYED	WOODS		<div><div></div><div>BUILDING B, LEVEL 1 8 NUGENT ST, GRAFTON, AUCKLAND 1023 +64 9 308 9229</div><div>WOODS.CO.NZ</div></div>	<div>ARATAKI DEVELOPMENT - HAVELOCK NORTH</div> <div>OVERLAND FLOW SECTIONS</div>	STATUS	ISSUED FOR CONSENT	REV
1	ISSUED FOR INFORMATION	AS	APR 2025	DESIGNED	AS				SCALE	1:100 @ A3	2
2	ISSUED FOR CONSENT	AS	JUN 2025	DRAWN	AS				COUNCIL	HASTINGS DISTRICT COUNCIL	
				CHECKED	BLO				DWG NO	P24-244-00-3902-DR	
				APPROVED	BF						

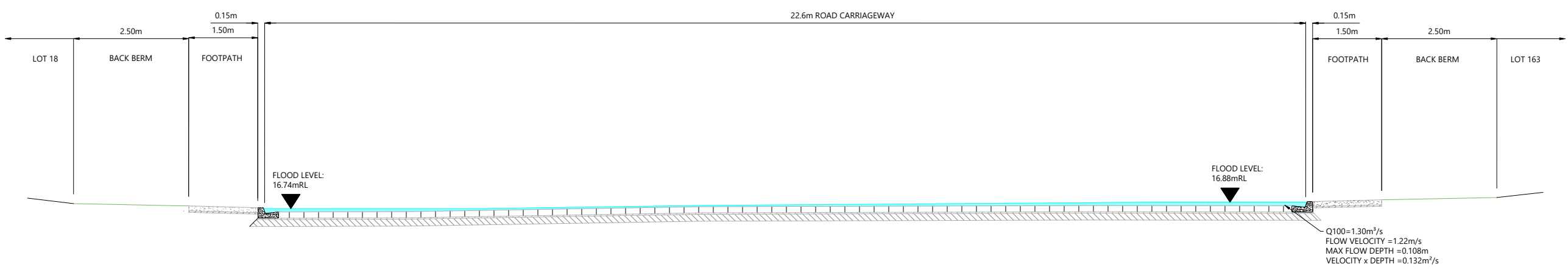


REVISION DETAILS		INT	DATE	SURVEYED	WOODS		<div><div></div><div>BUILDING B, LEVEL 1 8 NUGENT ST, GRAFTON, AUCKLAND 1023 +64 9 308 9229</div><div>WOODS.CO.NZ</div></div>	<div>ARATAKI DEVELOPMENT - HAVELOCK NORTH</div> <div>OVERLAND FLOW SECTIONS</div>	STATUS	ISSUED FOR CONSENT	REV
1	ISSUED FOR INFORMATION	AS	APR 2025	DESIGNED	AS				SCALE	1:100 @ A3	2
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				CHECKED	BLO				DWG NO	P24-244-00-3903-DR	
				APPROVED	BF						

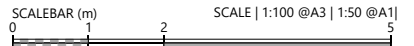


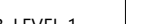

- NOTES
- 1. OVERLAND FLOWS, DEPTHS AND VELOCITIES HAVE BEEN EXTRACTED FROM HEC-RAS 2D MODEL.
 - 2. ALL ROADS CALCULATED TO HAVE A $d \times v$ LESS THAN $0.4m^2/s$ AT KERB INVERT.

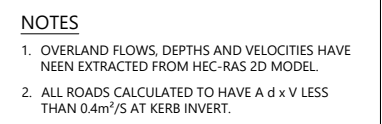
G-G OVERLAND FLOW PATH AT ARATAKI ROAD
3904 SCALE 1:100 @ A3



H-H OVERLAND FLOW PATH AT ROAD AR01
3901 SCALE 1:100 @ A3



REVISION DETAILS						INT	DATE	SURVEYED	WOODS		BUILDING B, LEVEL 1 8 NUGENT ST, GRAFTON, AUCKLAND 1023 +64 9 308 9229  CDL LAND NEW ZEALAND LIMITED	ARATAKI DEVELOPMENT - HAVELOCK NORTH			STATUS	ISSUED FOR CONSENT	REV
1	ISSUED FOR INFORMATION					AS	APR 2025	DESIGNED	AS			OVERLAND FLOW SECTIONS			SCALE	1:100 @ A3	2
2	ISSUED FOR CONSENT					AS	JUN 2025	DRAWN	AS						COUNCIL	HASTINGS DISTRICT COUNCIL	
								CHECKED	BLO						DWG NO	P24-244-00-3904-DR	
								APPROVED	BF								






The diagram illustrates a cross-section of a road reserve with a total width of 16.0m. The components and their dimensions from left to right are:

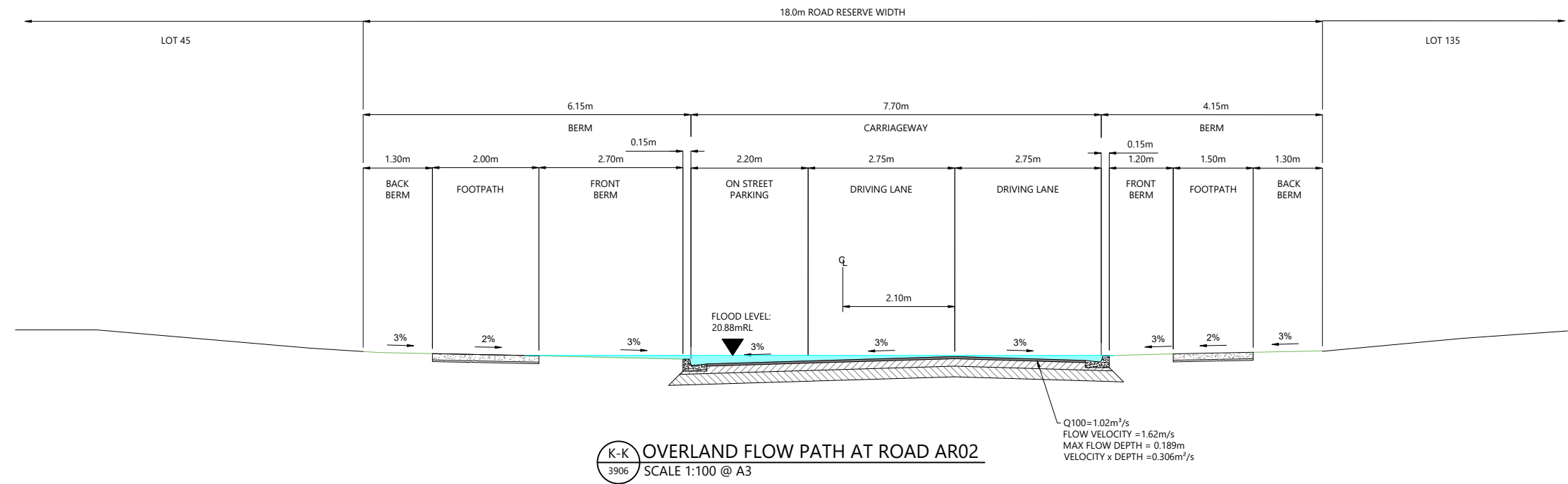
- LOT 38**: The area to the left of the road reserve.
- BACK BERM**: 4.09m wide.
- FOOTPATH**: 2.44m wide.
- FRONT BERM**: 0.61m wide.
- CARRIAGEWAY**: 7.70m wide, consisting of two **DRIVING LANE**s (4.59m and 2.83m wide).
- FRONT BERM**: 0.15m wide.
- FRONT BERM**: 3.29m wide.
- FOOTPATH**: 1.69m wide.
- BACK BERM**: 1.46m wide.
- ACCESSWAY LOT 1001**: The area to the right of the road reserve.

Additional details include:

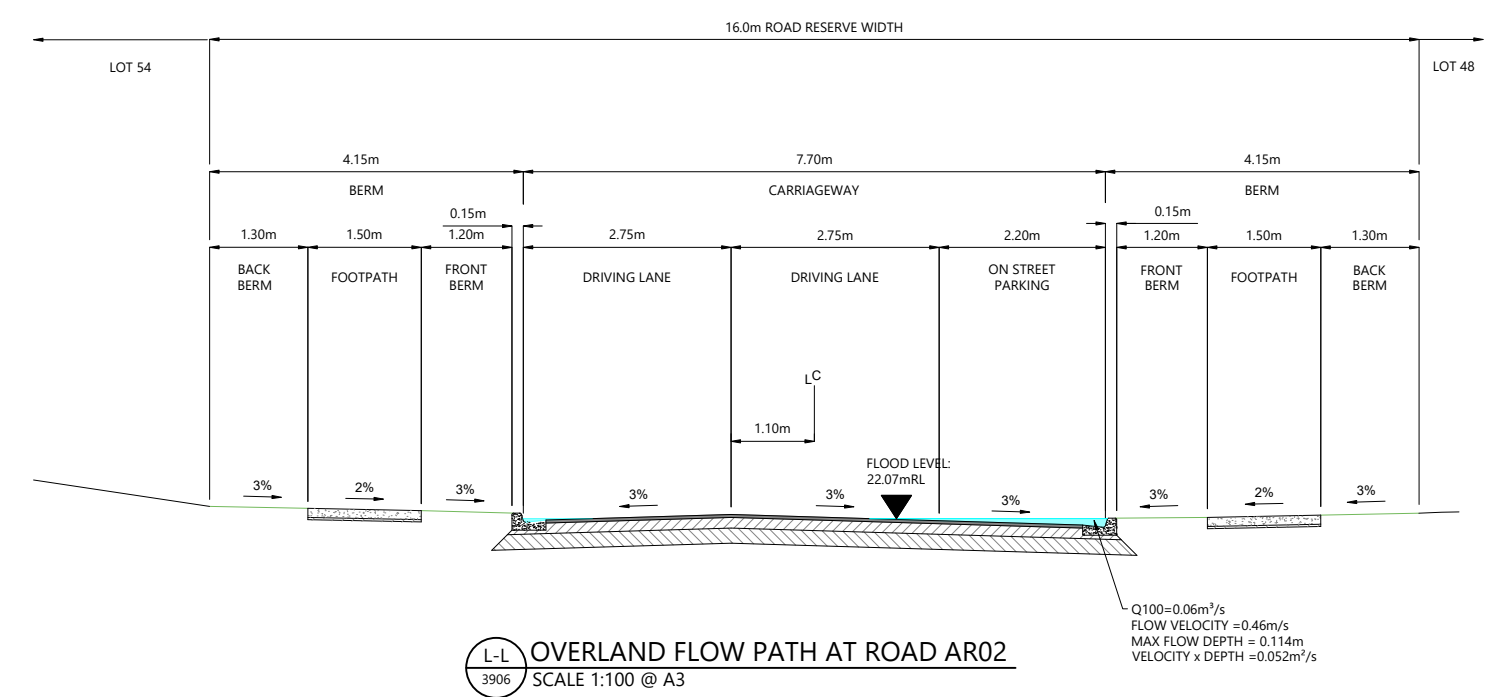
- FLOOD LEVEL**: 19.22mRL, indicated by a triangle and a dashed line.
- Gradients**: 3% on the left, 2% on the footpath, and 3% on the driving lanes.
- Flow Data**:
 - $Q_{100} = 0.58 \text{ m}^3/\text{s}$
 - FLOW VELOCITY = 0.65m/s
 - MAX FLOW DEPTH = 0.269m
 - VELOCITY x DEPTH = 0.175m²/s

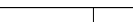
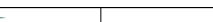
SCALEBAR (m) SCALE | 1:100 @A3 | 1:50 @A1|

REVISION DETAILS		INT	DATE	SURVEYED	WOODS			BUILDING B, LEVEL 1 8 NUGENT ST, GRAFTON, AUCKLAND 1023 +64 9 308 9229 WOODS.CO.NZ	ARATAKI DEVELOPMENT - HAVELOCK NORTH				STATUS	ISSUED FOR CONSENT	REV
1	ISSUED FOR INFORMATION	AS	APR 2025	DESIGNED	AS				SCALE	1:100 @ A3	2				
2	ISSUED FOR CONSENT	AS	JUN 2025	DRAWN	AS				COUNCIL	HASTINGS DISTRICT COUNCIL					
				CHECKED	BLO				DWG NO	P24-244-00-3905-DR					
				APPROVED	BF										
										OVERLAND FLOW SECTIONS					

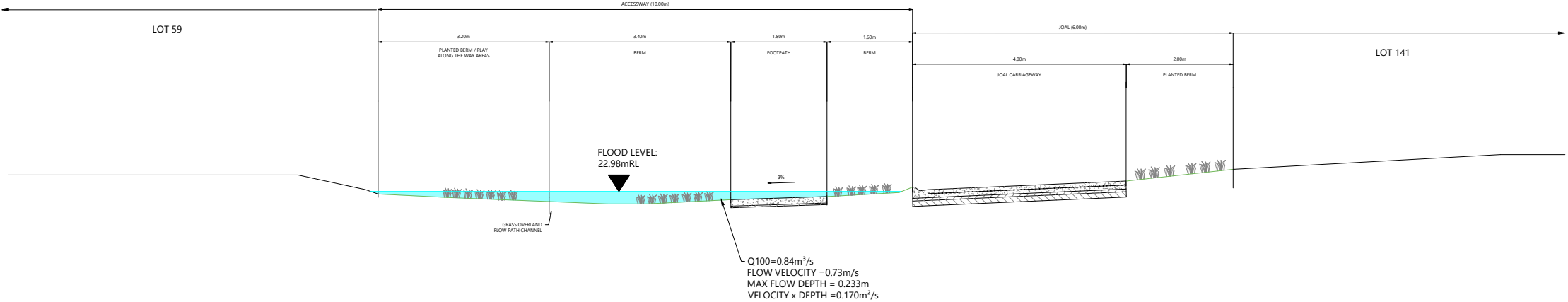


- NOTES
1. OVERLAND FLOWS, DEPTHS AND VELOCITIES HAVE BEEN EXTRACTED FROM HEC-RAS 2D MODEL.
 2. ALL ROADS CALCULATED TO HAVE A $d \times v$ LESS THAN $0.4m^2/s$ AT KERB INVERT.

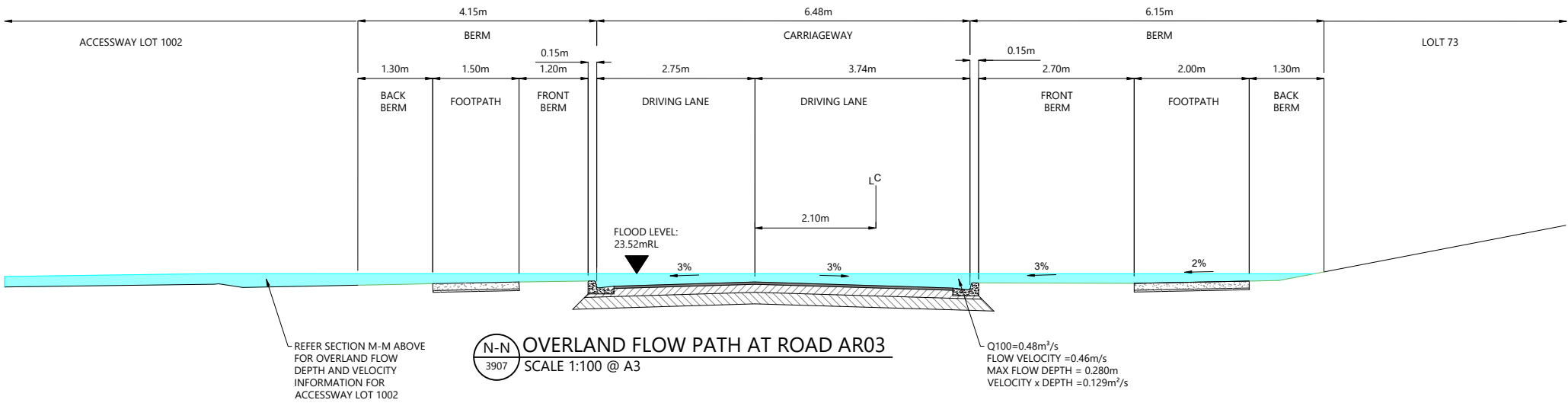


REVISION DETAILS						BUILDING B, LEVEL 1 8 NUGENT ST, GRAFTON, AUCKLAND 1023 +64 9 308 9229 WOODS.CO.NZ		ARATAKI DEVELOPMENT - HAVELOCK NORTH OVERLAND FLOW SECTIONS		STATUS			REV
1	ISSUED FOR INFORMATION	AS	APR 2025	DESIGNED						SCALE	1:100 @ A3	2	
2	ISSUED FOR CONSENT	AS	JUN 2025	DRAWN						COUNCIL	HASTINGS DISTRICT COUNCIL		
				CHECKED						DWG NO	P24-244-00-3906-DR		
				APPROVED									

- NOTES
- OVERLAND FLOWS, DEPTHS AND VELOCITIES HAVE BEEN EXTRACTED FROM HEC-RAS 2D MODEL.
 - ALL ROADS CALCULATED TO HAVE A d x V LESS THAN 0.4m²/S AT KERB INVERT.





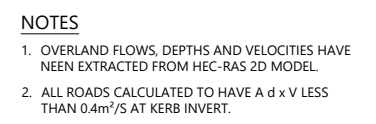
M-M
3907
OVERLAND FLOW PATH AT ACCESSWAY LOT 1002
SCALE 1:100 @ A3





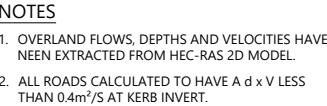
N-N
3907
OVERLAND FLOW PATH AT ROAD AR03
SCALE 1:100 @ A3






REVISION DETAILS		INT	DATE	SURVEYED	WOODS		BUILDING B, LEVEL 1 8 NUGENT ST, GRAFTON, AUCKLAND 1023 +64 9 308 9229 WOODS.CO.NZ		ARATAKI DEVELOPMENT - HAVELOCK NORTH				STATUS ISSUED FOR CONSENT			REV 2
1	ISSUED FOR INFORMATION	AS	APR 2025	DESIGNED	AS				SCALE	1:100 @ A3	COUNCIL		HASTINGS DISTRICT COUNCIL			
2	ISSUED FOR CONSENT	AS	JUN 2025	DRAWN	AS				DWG NO	P24-244-00-3907-DR						
				CHECKED	BLO											
				APPROVED	BF											



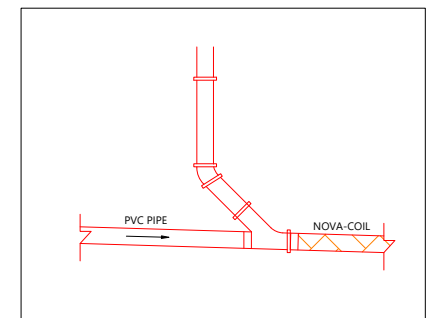
REVISION DETAILS		INT	DATE	SURVEYED	WOODS	 BUILDING B, LEVEL 1 8 NUGENT ST, GRAFTON, AUCKLAND 1023 +64 9 308 9229  CDL LAND NEW ZEALAND LIMITED WOODS.CO.NZ	<div>ARATAKI DEVELOPMENT - HAVELOCK NORTH</div> <div>OVERLAND FLOW SECTIONS</div>					
1	ISSUED FOR INFORMATION	AS	APR 2025	DESIGNED	AS					STATUS	ISSUED FOR CONSENT	REV
2	ISSUED FOR CONSENT	AS	JUN 2025	DRAWN	AS					SCALE	1:100 @ A3	2
				CHECKED	BLO					COUNCIL	HASTINGS DISTRICT COUNCIL	
				APPROVED	BF					DWG NO	P24-244-00-3908-DR	



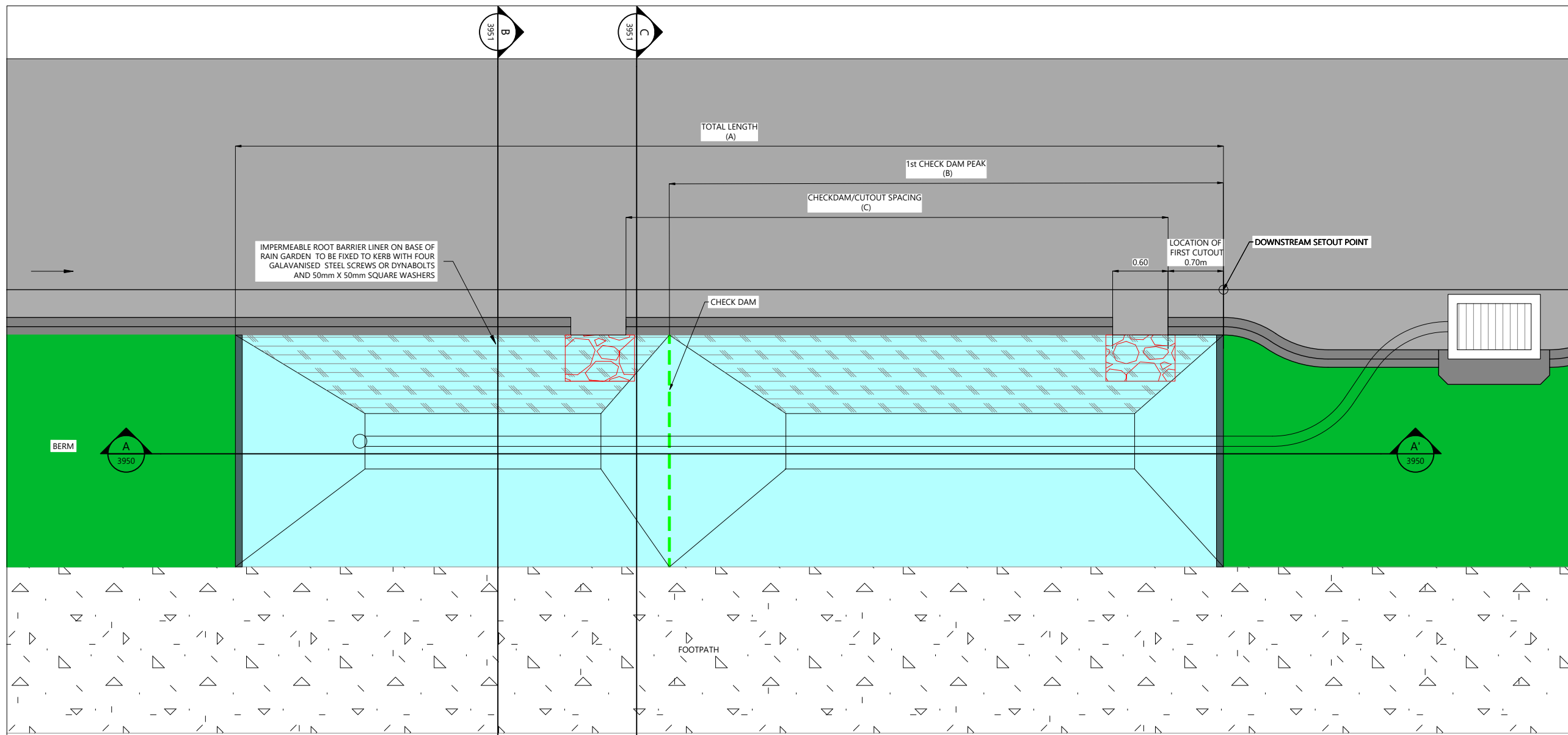
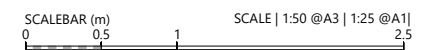
REVISION DETAILS		INT	DATE	SURVEYED	WOODS		<div><div></div><div>BUILDING B, LEVEL 1 8 NUGENT ST, GRAFTON, AUCKLAND 1023 +64 9 308 9229</div><div>WOODS.CO.NZ</div></div>	<div><div></div><div>ARATAKI DEVELOPMENT - HAVELOCK NORTH</div><div>OVERLAND FLOW SECTIONS</div></div>	<div><div><table><tr><td>STATUS</td><td>ISSUED FOR CONSENT</td><td>REV</td></tr><tr><td>SCALE</td><td>1:100 @ A3</td><td rowspan="2">2</td></tr><tr><td>COUNCIL</td><td>HASTINGS DISTRICT COUNCIL</td></tr><tr><td>DWG NO</td><td colspan="2">P24-244-00-3909-DR</td></tr></table></div></div>	STATUS	ISSUED FOR CONSENT	REV	SCALE	1:100 @ A3	2	COUNCIL	HASTINGS DISTRICT COUNCIL	DWG NO	P24-244-00-3909-DR	
STATUS	ISSUED FOR CONSENT	REV																		
SCALE	1:100 @ A3	2																		
COUNCIL	HASTINGS DISTRICT COUNCIL																			
DWG NO	P24-244-00-3909-DR																			
1	ISSUED FOR INFORMATION	AS	APR 2025	DESIGNED	AS															
2	ISSUED FOR CONSENT	AS	JUN 2025	DRAWN	AS															
				CHECKED	BLO															
				APPROVED	BF															

GENERAL NOTES

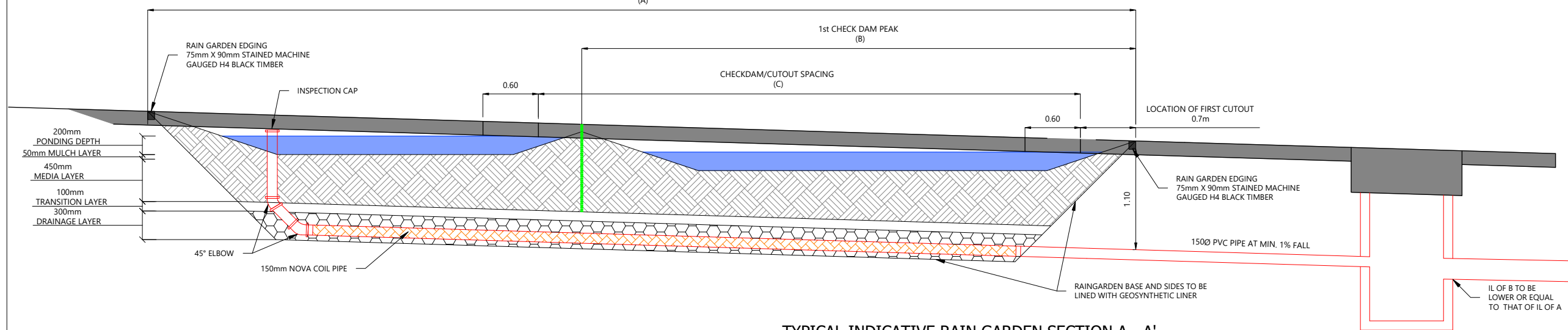
- ALL WORKS AND MATERIALS SHALL COMPLY WITH HASTINGS DISTRICT COUNCIL STANDARDS FOR ENGINEERING DESIGN AND CONSTRUCTION. ANY AMBIGUITY BETWEEN THESE DRAWINGS AND COUNCIL STANDARDS SHALL BE REFERRED TO THE ENGINEER FOR CLARIFICATION.
- ALL RAINGARDEN CONNECTIONS TO BE CCTV'D AND ASBUILT.
- ALL RAINGARDEN CONNECTIONS TO BE CONSTRUCTED TO PUBLIC DRAINAGE STANDARDS. CONNECTIONS CROSSING UNDER ROADS TO BE HARDFILL BACKFILLED WITH MINIMUM 1M COVER.
- THE CONTRACTOR IS RESPONSIBLE TO SUPPLY WOODS ENGINEERS WITH THREE IMAGES OF EACH RAINGARDEN WITH THE IDENTIFYING NUMBER CLEARLY SHOWN AS FOLLOWS:
 - POST EXCAVATION WITH ALL PLUMBING IN PLACE
 - POST PLACEMENT OF DRAINAGE AGGREGATE;
 - POST PLACEMENT OF TRANSITION LAYER.
- TRANSITION LAYER IS TO CONSIST OF 50MM #3 SAND ON 50MM G6 CHIP.
- A MINIMUM OF 50MM BEDDING LAYER IS TO BE PROVIDED FOR THE UNDER DRAIN PIPE AND THE UNDER DRAIN MEDIA IS TO BE SAP20/7".



RAIN GARDEN TO RAIN GARDEN
CONNECTION DETAIL



TYPICAL INDICATIVE RAIN GARDEN PLAN VIEW
Scale: 1:50



TYPICAL INDICATIVE RAIN GARDEN SECTION A - A'
Scale: 1:50

REVISION DETAILS		INT	DATE	SURVEYED	WOODS
2	ISSUED FOR CONSENT	TB	JUNE 2025	DESIGNED	TB
				DRAWN	TB
				CHECKED	BLO
				APPROVED	BF



BUILDING B, LEVEL 1
8 NUGENT ST, GRAFTON,
AUCKLAND 1023
+64 9 308 9229

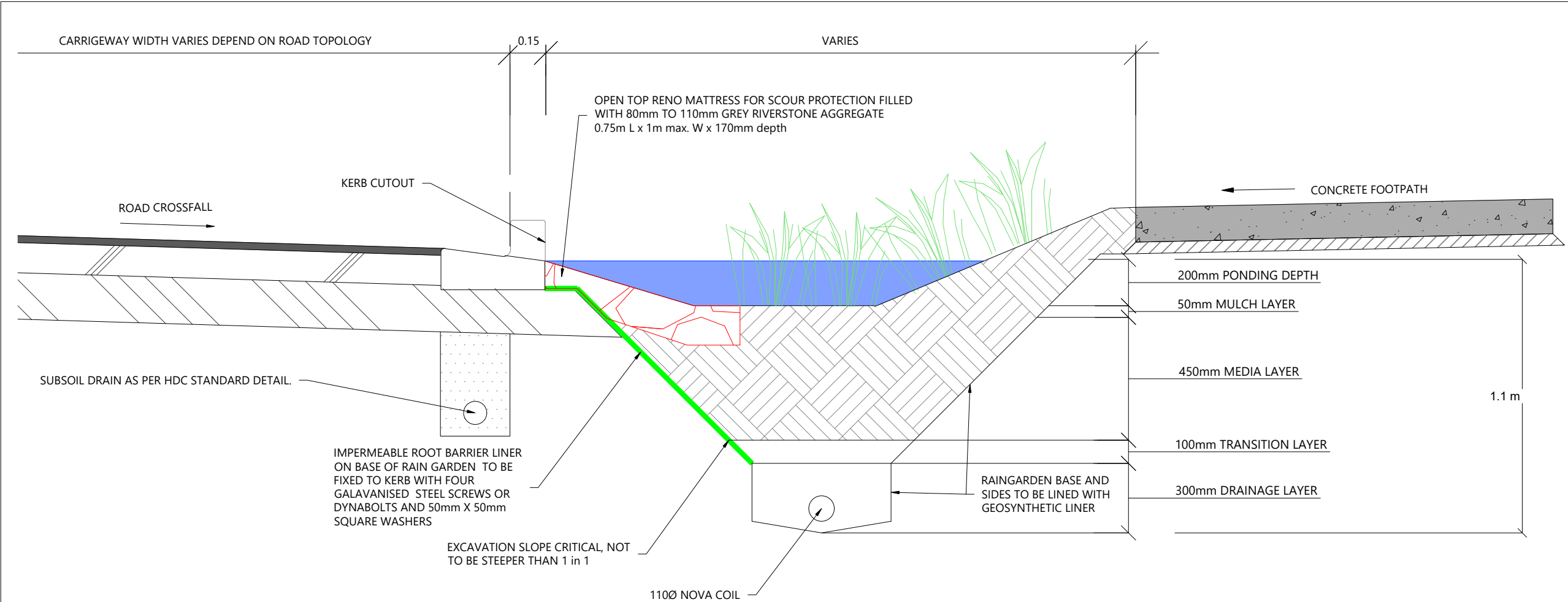
WOODS.CO.NZ



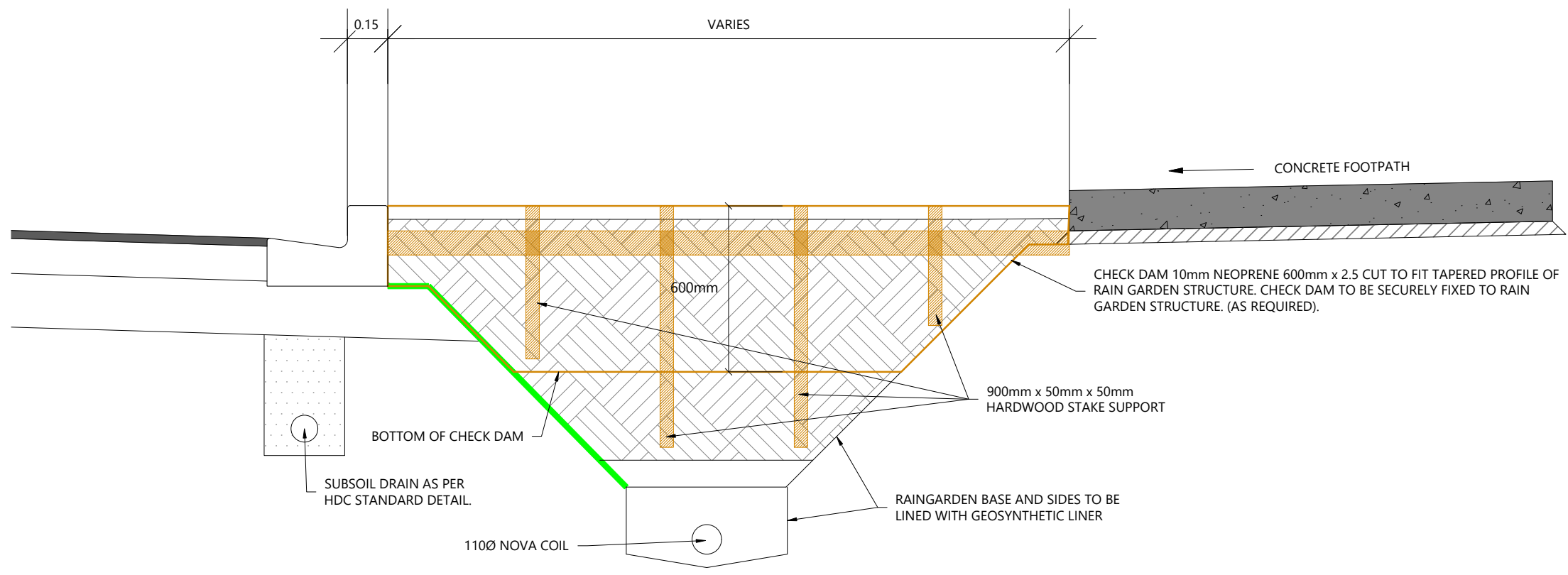
ARATAKI DEVELOPMENT - HAVELOCK NORTH

TYPICAL RAINGARDEN DETAILS PLAN AND LONGSECTION

STATUS	ISSUED FOR CONSENT	REV
SCALE	AS SHOWN	2
COUNCIL	HASTINGS DISTRICT COUNCIL	
DWG NO	P24-244-00-3950-DR	



TYPICAL INDICATIVE RAIN GARDEN SECTION B - B'
Scale: 1:20





TYPICAL INDICATIVE RAIN GARDEN SECTION C - C'
Scale: 1:20

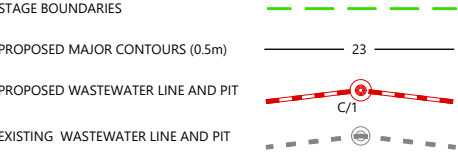
GENERAL NOTES

1. ALL WORKS AND MATERIALS SHALL COMPLY WITH HASTINGS DISTRICT COUNCIL STANDARDS FOR ENGINEERING DESIGN AND CONSTRUCTION. ANY AMBIGUITY BETWEEN THESE DRAWINGS AND COUNCIL STANDARDS SHALL BE REFERRED TO THE ENGINEER FOR CLARIFICATION.
2. ALL RAINGARDEN CONNECTIONS TO BE CCTV'D AND ASBUILT.
3. ALL RAINGARDEN CONNECTIONS TO BE CONSTRUCTED TO PUBLIC DRAINAGE STANDARDS. CONNECTIONS CROSSING UNDER ROADS TO BE HARDFILL BACKFILLED WITH MINIMUM 1M COVER.
4. THE CONTRACTOR IS RESPONSIBLE TO SUPPLY WOODS ENGINEERS WITH THREE IMAGES OF EACH RAINGARDEN WITH THE IDENTIFYING NUMBER CLEARLY SHOWN AS FOLLOWS:
 - POST EXCAVATION WITH ALL PLUMBING IN PLACE
 - POST PLACEMENT OF DRAINAGE AGGREGATE;
 - POST PLACEMENT OF TRANSITION LAYER.
5. TRANSITION LAYER IS TO CONSIST OF 50MM #3 SAND ON 50MM G6 CHIP.
6. A MINIMUM OF 50MM BEDDING LAYER IS TO BE PROVIDED FOR THE UNDER DRAIN PIPE AND THE UNDER DRAIN MEDIA IS TO BE SAP20/7".



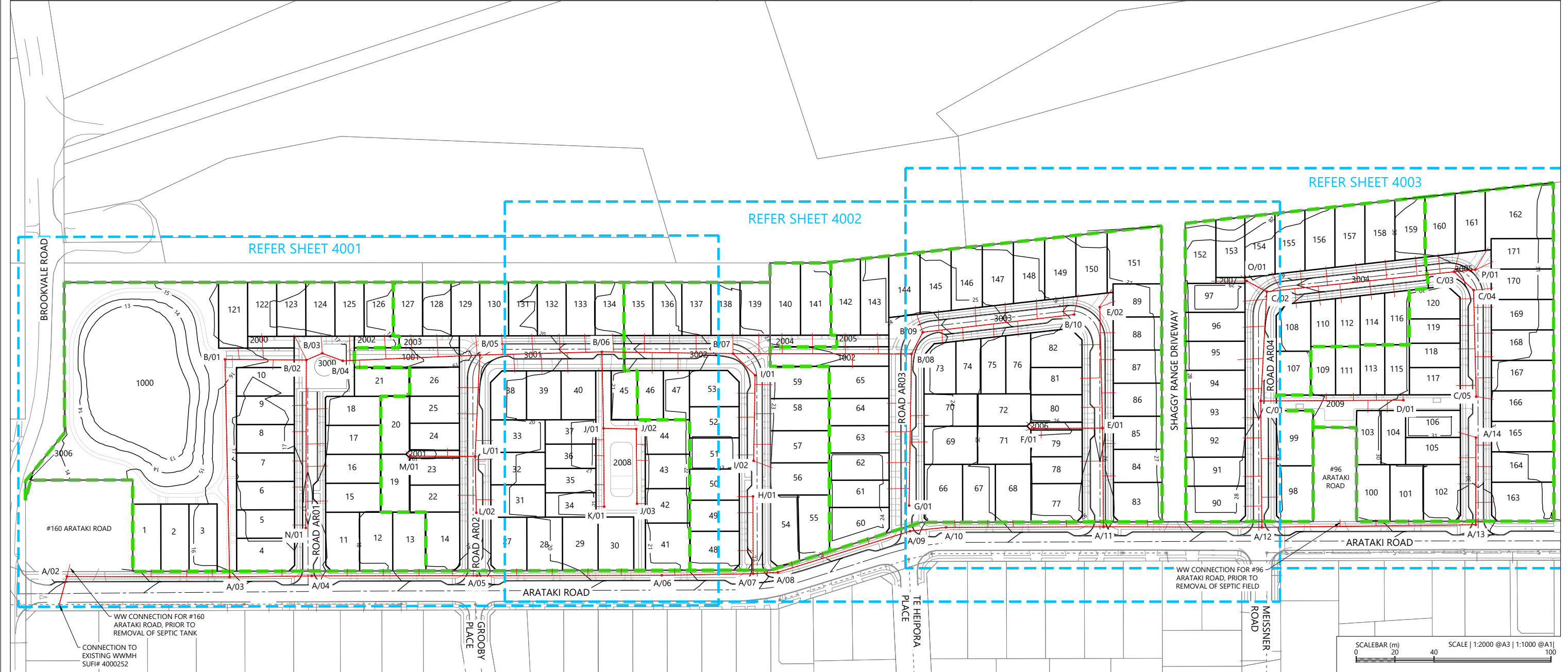
REVISION DETAILS							BUILDING B, LEVEL 1 8 NUGENT ST, GRAFTON, AUCKLAND 1023 +64 9 308 9229 WOODS.CO.NZ		ARATAKI DEVELOPMENT - HAVELOCK NORTH TYPICAL RAINGARDEN DETAILS CROSS SECTIONS			STATUS			REV 2
2	ISSUED FOR CONSENT	TB	JUNE 2025	DESIGNED	TB							SCALE	AS SHOWN		
				DRAWN	TB							COUNCIL	HASTINGS DISTRICT COUNCIL		
				CHECKED	BLO							DWG NO	P24-244-00-3951-DR		
				APPROVED	BF										

LEGEND



NOTES

1. ALL WORKS & MATERIALS TO COMPLY WITH HASTINGS DISTRICT COUNCIL STANDARDS.
2. FOR PIPE BEDDING DETAILS REFER TO STANDARD DETAIL SHEETS UNLESS OTHERWISE NOTED ON THE DRAINAGE LONG SECTIONS IN WHICH CASE SUCH NOTES TAKE PRECEDENCE.
3. WW PIPES TO BE 150MMØ UPVC SN16. UNLESS OTHERWISE NOTED ON THE DRAINAGE LONG SECTION IN WHICH CASE SUCH NOTES SHALL TAKE PRECEDENCE.
4. ALL PIPE CROSSINGS UNDER ROADS TO BE HARDFILL BACKFILLED.
5. ALL WW LOT CONNECTIONS TO BE 100MMØ, RAMPED RISERS ARE TO BE EXTENDED & CAPPED OFF 1.0M BELOW THE FINISHED GROUND SURFACE.
6. ALL MANHOLES TO BE 1050MMØ UNLESS OTHERWISE NOTED ON THE DRAINAGE LONG SECTION IN WHICH CASE SUCH NOTES SHALL TAKE PRECEDENCE.
7. THE CONTRACTOR IS TO PEG MANHOLES & CHECK FINISHED EARTHWORKS LEVELS (MH LID LEVELS) PRIOR TO ORDERING MANHOLES.
8. ALL MANHOLE LIDS IN THE CYCLEWAY SHOULD HAVE A CYCLIST FRIENDLY COVER.
9. PIPE GRADES ON THE LONG SECTIONS ARE CALCULATED FROM MANHOLE SIDE TO MANHOLE SIDE. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT LASER LEVELS ARE SET TO COMPENSATE FOR THIS.



REVISION DETAILS		INT	DATE	SURVEYED	WOODS
1	ISSUED FOR DISCUSSION	AS	APR 2025	DESIGNED	AS
2	ISSUED FOR CONSENT	AS	JUN 2025	DRAWN	AS
				CHECKED	BLO
				APPROVED	BF

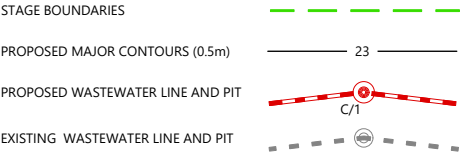
BUILDING B, LEVEL 1
8 NUGENT ST, GRAFTON,
AUCKLAND 1023
+64 9 308 9229
WOODS.CO.NZ



ARATAKI DEVELOPMENT - HAVELOCK NORTH
WASTEWATER DRAINAGE LAYOUT OVERALL PLAN

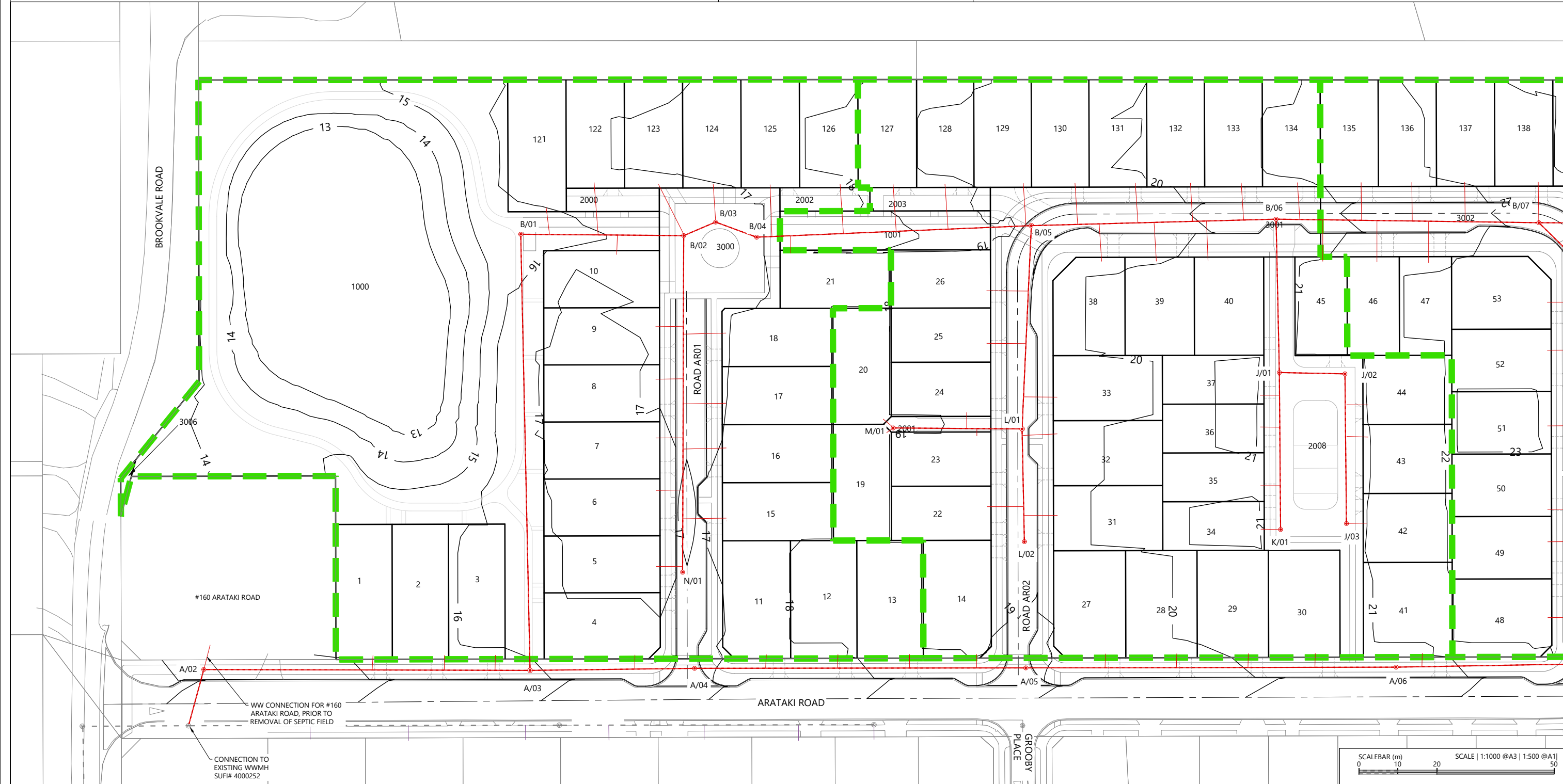
STATUS	ISSUED FOR CONSENT	REV
SCALE	1:2000 @ A3	2
COUNCIL	HASTINGS DISTRICT COUNCIL	
DWG NO	P24-244-00-4000-DR	

LEGEND



NOTES

1. ALL WORKS & MATERIALS TO COMPLY WITH HASTINGS DISTRICT COUNCIL STANDARDS.
2. FOR PIPE BEDDING DETAILS REFER TO STANDARD DETAIL SHEETS UNLESS OTHERWISE NOTED ON THE DRAINAGE LONG SECTIONS IN WHICH CASE SUCH NOTES TAKE PRECEDENCE.
3. WW PIPES TO BE 150MMØ UPVC SN16. UNLESS OTHERWISE NOTED ON THE DRAINAGE LONG SECTION IN WHICH CASE SUCH NOTES SHALL TAKE PRECEDENCE.
4. ALL PIPE CROSSINGS UNDER ROADS TO BE HARDFILL BACKFILLED.
5. ALL WW LOT CONNECTIONS TO BE 100MMØ. RAMPED RISERS ARE TO BE EXTENDED & CAPPED OFF 1.0M BELOW THE FINISHED GROUND SURFACE.
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7. THE CONTRACTOR IS TO PEG MANHOLES & CHECK FINISHED EARTHWORKS LEVELS (MH LID LEVELS) PRIOR TO ORDERING MANHOLES.
8. ALL MANHOLE LIDS IN THE CYCLEWAY SHOULD HAVE A CYCLIST FRIENDLY COVER.
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REVISION DETAILS		INT	DATE	SURVEYED	WOODS
2	ISSUED FOR CONSENT	AS	JUN 2025	DESIGNED	AS
				DRAWN	AS
				CHECKED	BLO
				APPROVED	BF

BUILDING B, LEVEL 1
8 NUGENT ST, GRAFTON,
AUCKLAND 1023
+64 9 308 9229
WOODS.CO.NZ



ARATAKI DEVELOPMENT - HAVELOCK NORTH
WASTEWATER DRAINAGE LAYOUT PLAN - SHEET 1

STATUS	ISSUED FOR CONSENT	REV
SCALE	1:1000 @ A3	2
COUNCIL	HASTINGS DISTRICT COUNCIL	
DWG NO	P24-244-00-4001-DR	

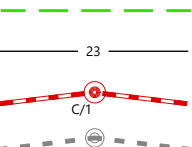
LEGEND

STAGE BOUNDARIES

PROPOSED MAJOR CONTOURS (0.5m)

PROPOSED WASTEWATER LINE AND PIT

EXISTING WASTEWATER LINE AND PIT



NOTES

1. ALL WORKS & MATERIALS TO COMPLY WITH HASTINGS DISTRICT COUNCIL STANDARDS.
2. FOR PIPE BEDDING DETAILS REFER TO STANDARD DETAIL SHEETS UNLESS OTHERWISE NOTED ON THE DRAINAGE LONG SECTIONS IN WHICH CASE SUCH NOTES TAKE PRECEDENCE.
3. WW PIPES TO BE 150MMØ UPVC SN16. UNLESS OTHERWISE NOTED ON THE DRAINAGE LONG SECTION IN WHICH CASE SUCH NOTES SHALL TAKE PRECEDENCE.
4. ALL PIPE CROSSINGS UNDER ROADS TO BE HARDFILL BACKFILLED.
5. ALL WW LOT CONNECTIONS TO BE 100MMØ. RAMPED RISERS ARE TO BE EXTENDED & CAPPED OFF 1.0M BELOW THE FINISHED GROUND SURFACE.
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REVISION DETAILS		INT	DATE	SURVEYED	WOODS
2	ISSUED FOR CONSENT	AS	JUN 2025	DESIGNED	AS
				DRAWN	AS
				CHECKED	BLO
				APPROVED	BF

BUILDING B, LEVEL 1
8 NUGENT ST, GRAFTON,
AUCKLAND 1023
+64 9 308 9229
WOODS.CO.NZ



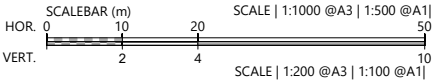
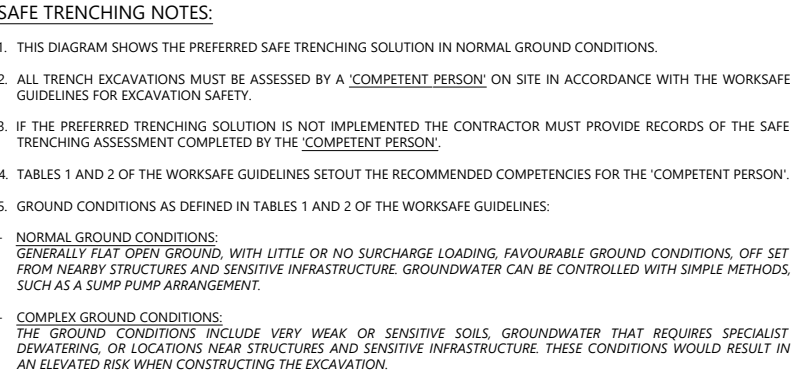
ARATAKI DEVELOPMENT - HAVELOCK NORTH
WASTEWATER DRAINAGE LAYOUT PLAN - SHEET 2



STATUS	ISSUED FOR CONSENT	REV
SCALE	1:1000 @ A3	2
COUNCIL	HASTINGS DISTRICT COUNCIL	
DWG NO	P24-244-00-4002-DR	

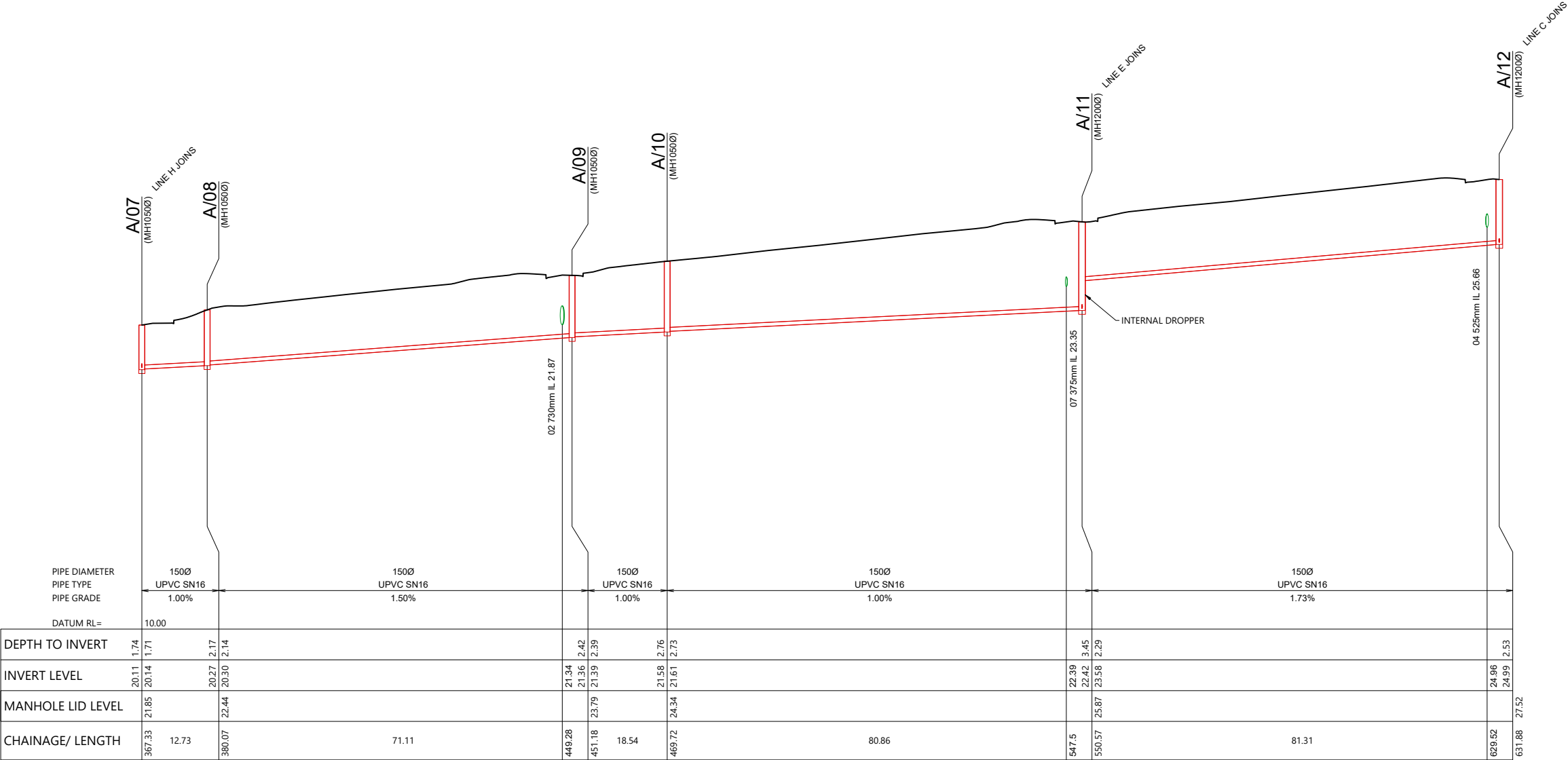


STATUS	ISSUED FOR CONSENT	REV
SCALE	1:1000 @ A3	2
COUNCIL	HASTINGS DISTRICT COUNCIL	
DWG NO	P24-244-00-4003-DR	




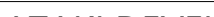
REVISION DETAILS		INT	DATE	SURVEYED	WOODS		BUILDING B, LEVEL 1 8 NUGENT ST, GRAFTON, AUCKLAND 1023 +64 9 308 9229 WOODS.CO.NZ		ARATAKI DEVELOPMENT - HAVELOCK NORTH				STATUS	ISSUED FOR CONSENT	REV
1	ISSUED FOR DISCUSSION	AS	APR 2025	DESIGNED	AS				SCALE	H 1:1000 V 1:200 @ A3	2				
2	ISSUED FOR CONSENT	TB	JUNE 2025	DRAWN	AS				COUNCIL	HASTINGS DISTRICT COUNCIL					
				CHECKED	BLO				DWG NO	P24-244-00-4500-DR					
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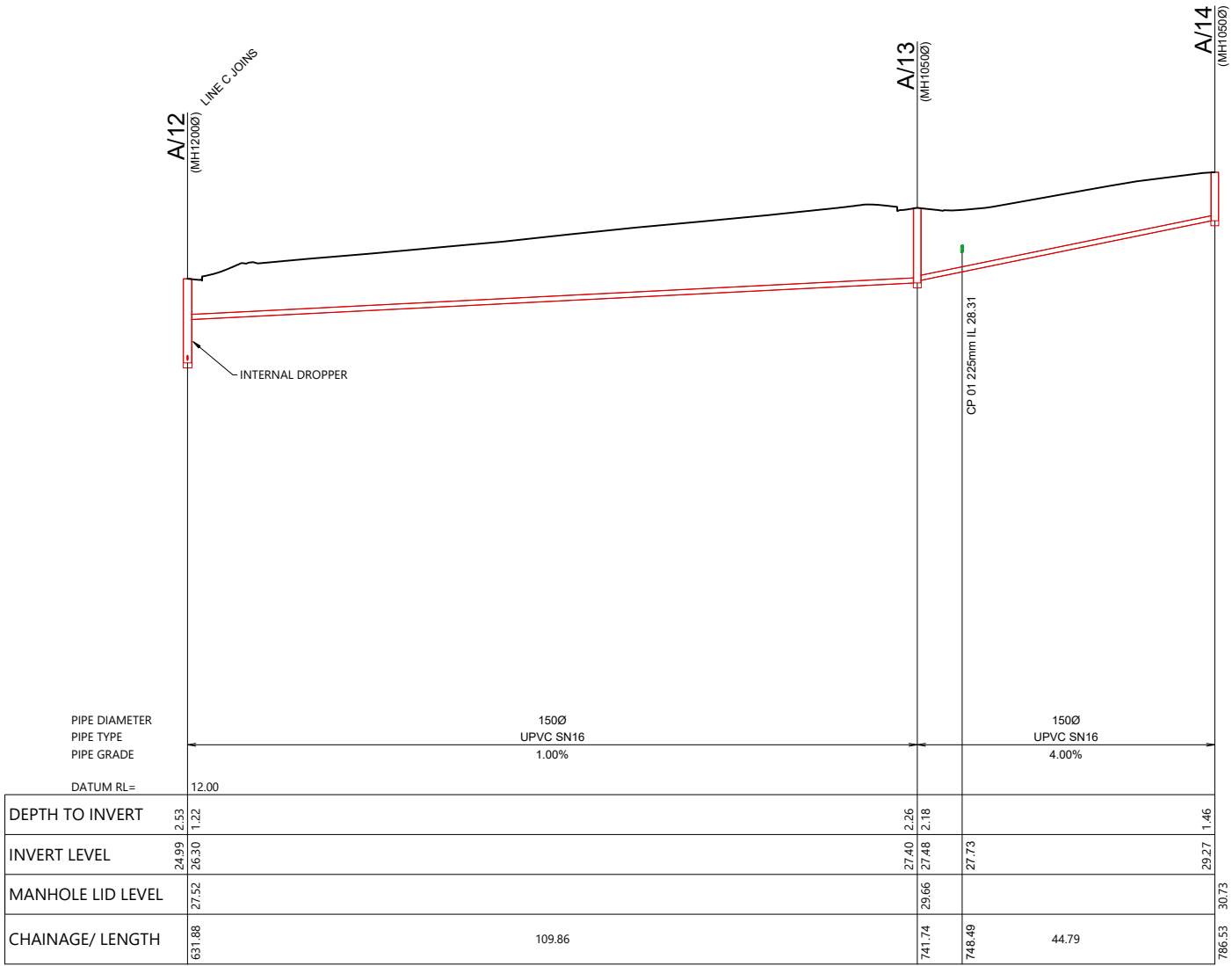




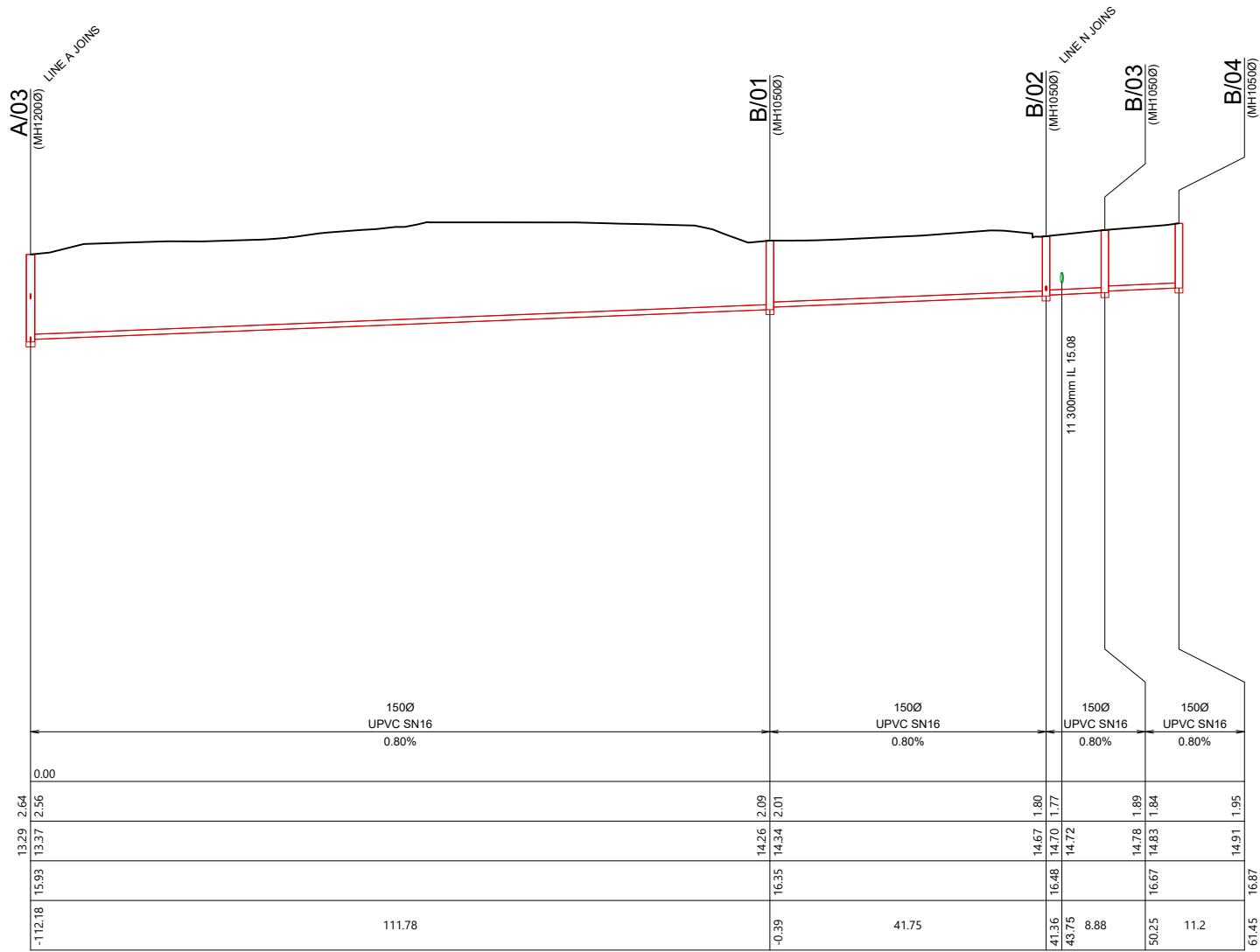
A



REVISION DETAILS						INT	DATE	SURVEYED	WOODS		BUILDING B, LEVEL 1 8 NUGENT ST, GRAFTON, AUCKLAND 1023 +64 9 308 9229 WOODS.CO.NZ		ARATAKI DEVELOPMENT - HAVELOCK NORTH				STATUS		ISSUED FOR CONSENT	REV
1	ISSUED FOR DISCUSSION					AS	APR 2025	DESIGNED	AS				2							
2	ISSUED FOR CONSENT					TB	JUNE 2025	DRAWN	AS											
								CHECKED	BLO											
								APPROVED	BF											
																DWG NO	P24-244-00-4501-DR			



A



B



REVISION DETAILS					INT	DATE	SURVEYED	WOODS
1	ISSUED FOR DISCUSSION				AS	APR 2025	DESIGNED	AS
2	ISSUED FOR CONSENT				TB	JUNE 2025	DRAWN	AS
							CHECKED	BLO
							APPROVED	BF

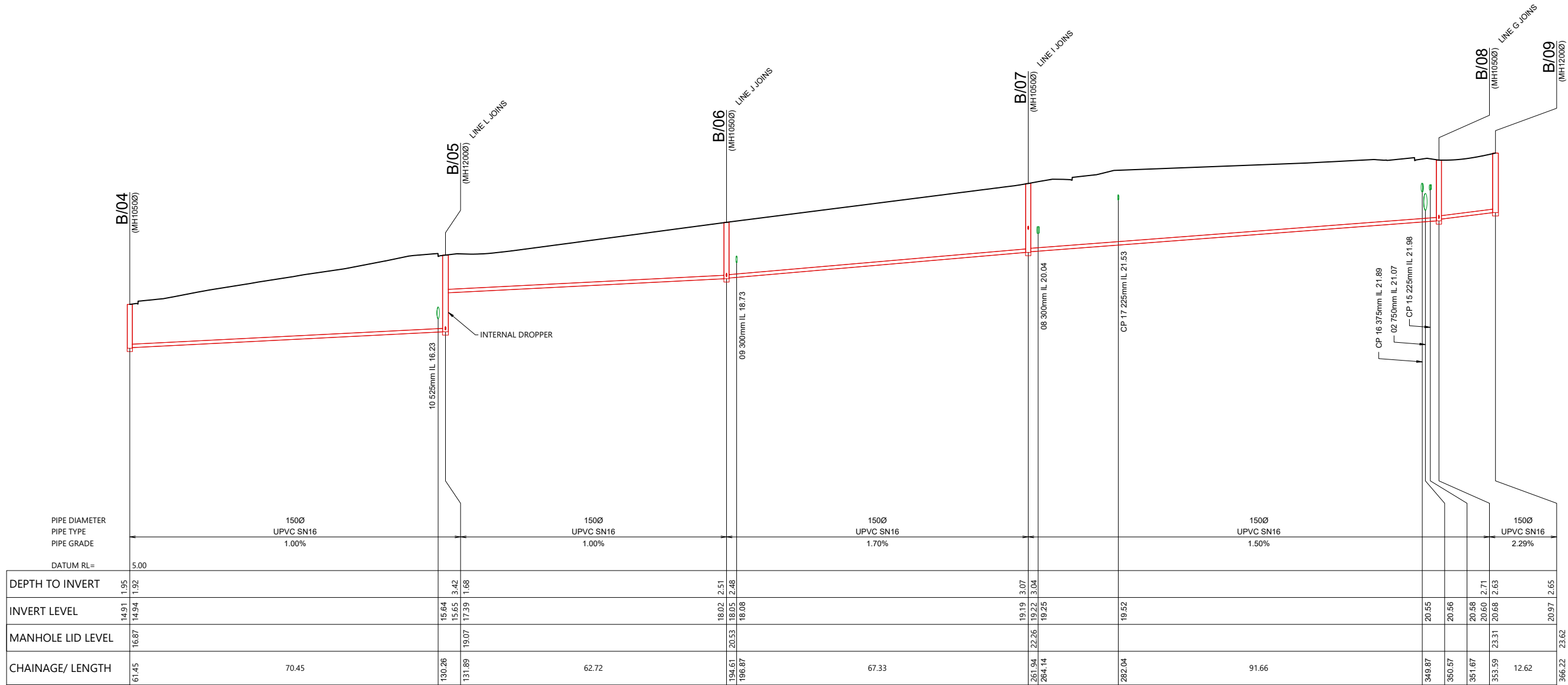


BUILDING B, LEVEL 1
8 NUGENT ST, GRAFTON,
AUCKLAND 1023
+64 9 308 9229
WOODS.CO.NZ



ARATAKI DEVELOPMENT - HAVELOCK NORTH
WASTEWATER LONGSECTION
SHEET 3

STATUS	ISSUED FOR CONSENT	REV
SCALE	H 1:1000 V 1:200 @ A3	2
COUNCIL	HASTINGS DISTRICT COUNCIL	
DWG NO	P24-244-00-4502-DR	



B



REVISION DETAILS		INT	DATE	SURVEYED	WOODS
1	ISSUED FOR DISCUSSION	AS	APR 2025	DESIGNED	AS
2	ISSUED FOR CONSENT	TB	JUNE 2025	DRAWN	AS
				CHECKED	BLO
				APPROVED	BF

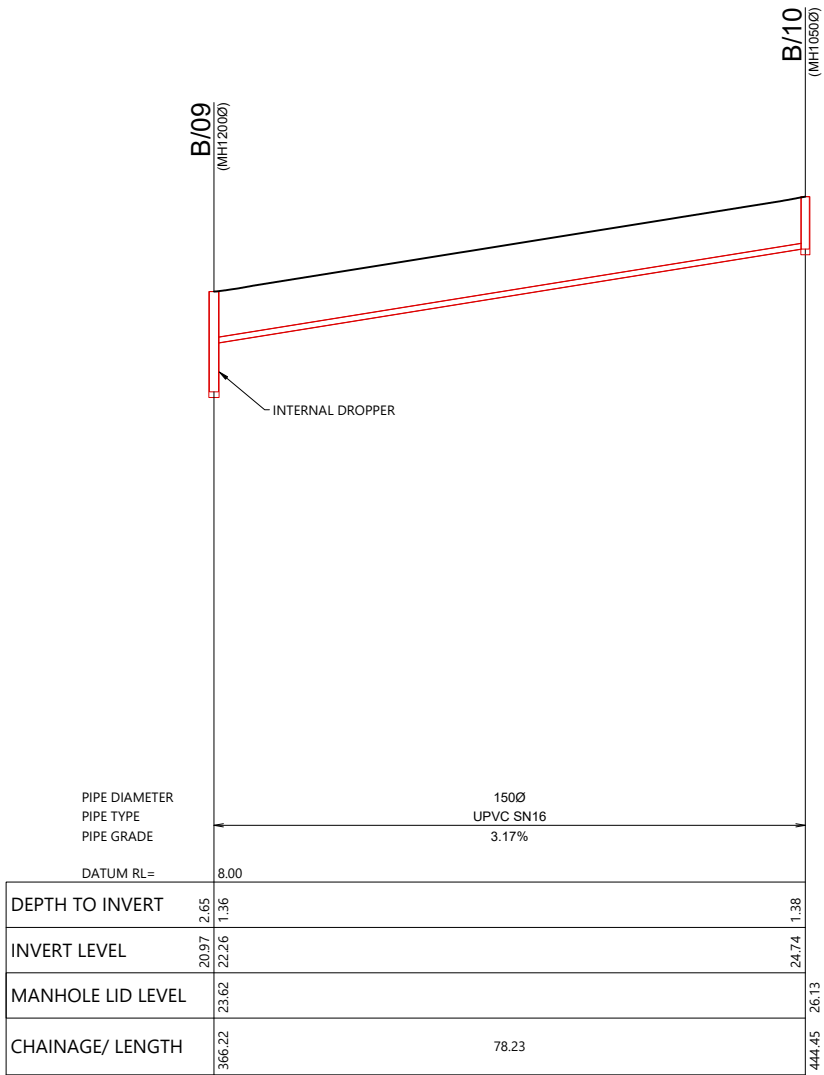


BUILDING B, LEVEL 1
8 NUGENT ST, GRAFTON,
AUCKLAND 1023
+64 9 308 9229
[WOODS.CO.NZ](https://www.woods.co.nz)

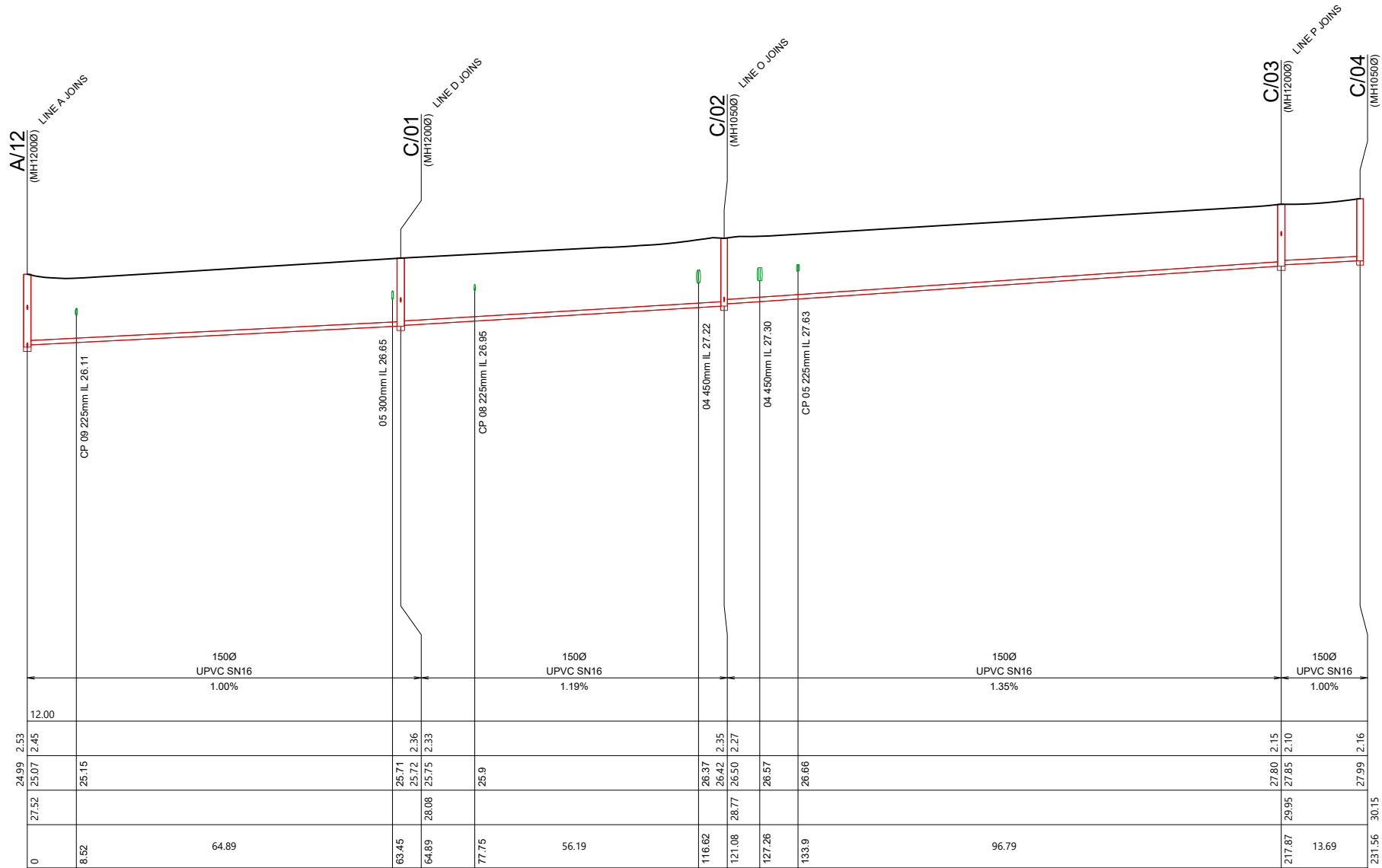


ARATAKI DEVELOPMENT - HAVELOCK NORTH
WASTEWATER LONGSECTION
SHEET 4

STATUS	ISSUED FOR CONSENT	REV
SCALE	H 1:1000 V 1:200 @ A3	2
COUNCIL	HASTINGS DISTRICT COUNCIL	
DWG NO	P24-244-00-4503-DR	




B



C



REVISION DETAILS		INT	DATE	SURVEYED	WOODS	
1	ISSUED FOR DISCUSSION	AS	APR 2025	DESIGNED	AS	
2	ISSUED FOR CONSENT	TB	JUNE 2025	DRAWN	AS	
				CHECKED	BLO	
				APPROVED	BF	

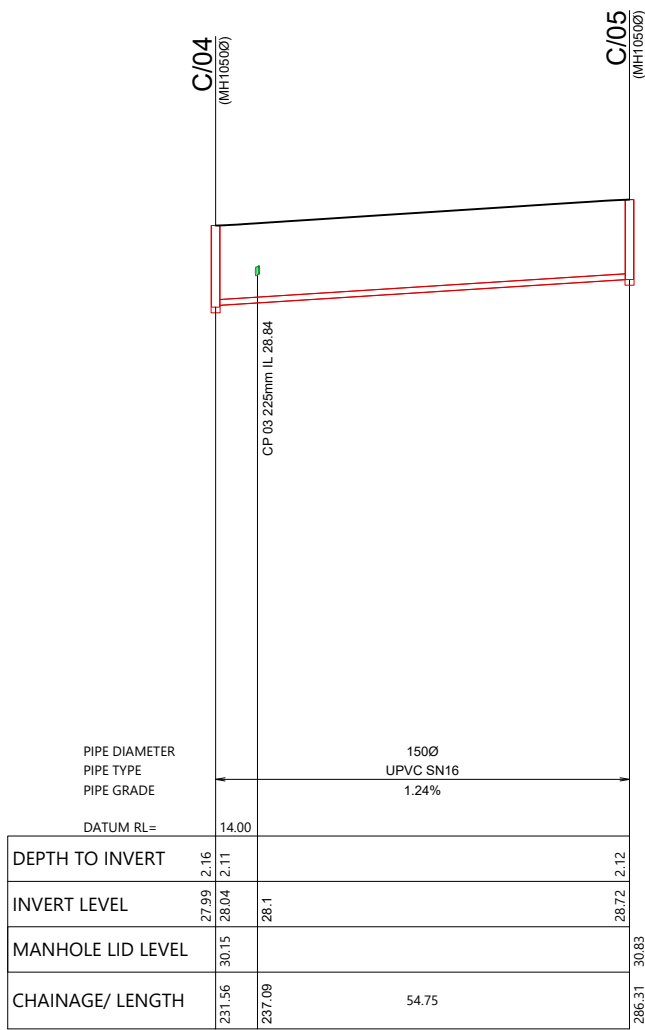


BUILDING B, LEVEL 1
8 NUGENT ST, GRAFTON,
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WOODS.CO.NZ

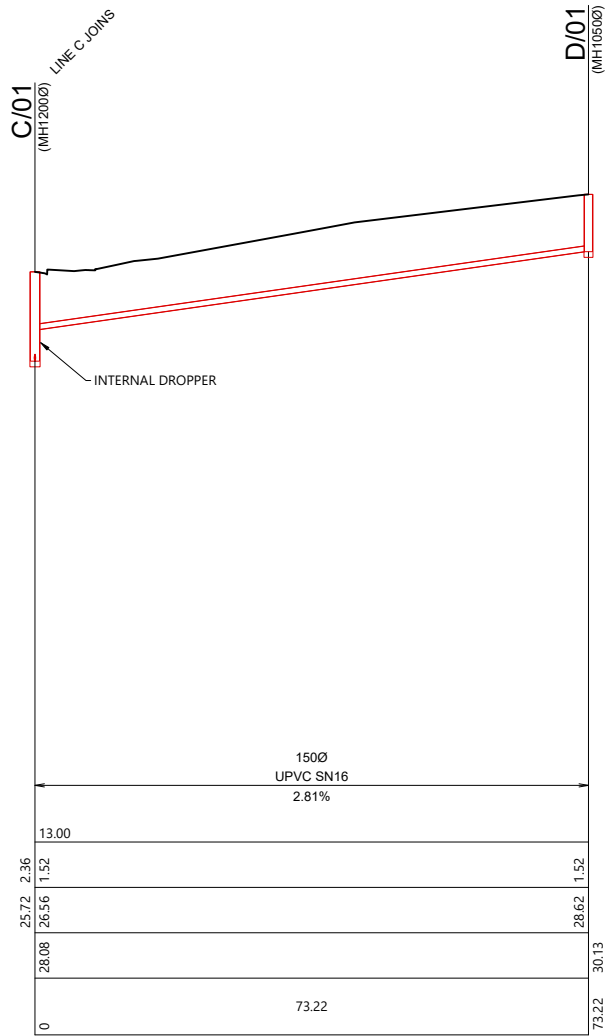


ARATAKI DEVELOPMENT - HAVELOCK NORTH
WASTEWATER LONGSECTION
SHEET 5

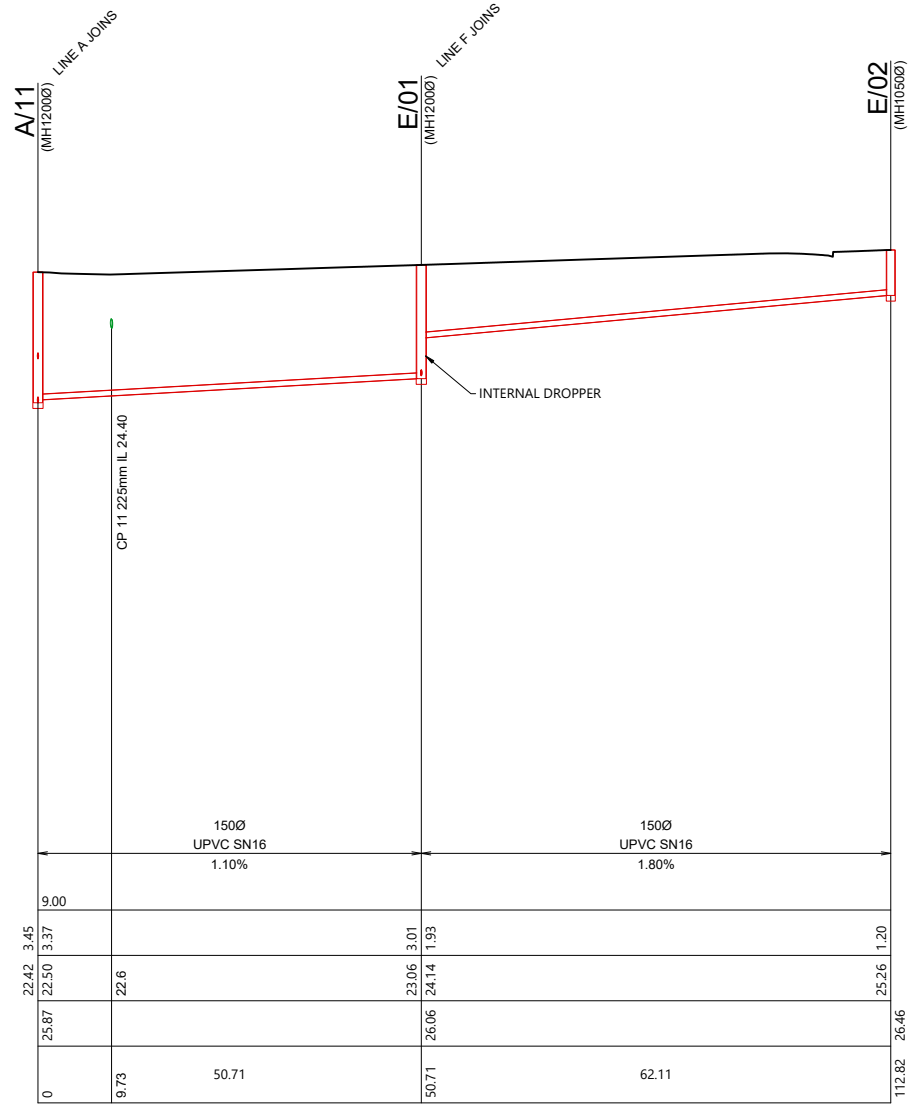
STATUS	ISSUED FOR CONSENT	REV
SCALE	H 1:1000 V 1:200 @ A3	2
COUNCIL	HASTINGS DISTRICT COUNCIL	
DWG NO	P24-244-00-4504-DR	



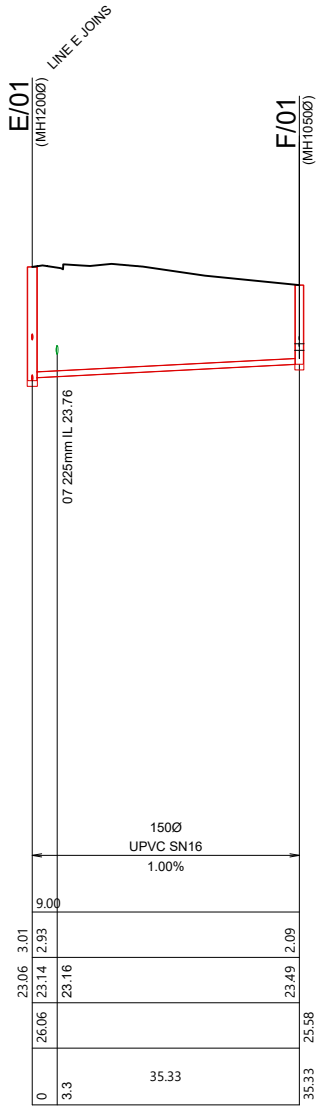
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D



E



F



REVISION DETAILS		INT	DATE	SURVEYED	WOODS
1	ISSUED FOR DISCUSSION	AS	APR 2025	DESIGNED	AS
2	ISSUED FOR CONSENT	TB	JUNE 2025	DRAWN	AS
				CHECKED	BLO
				APPROVED	BF

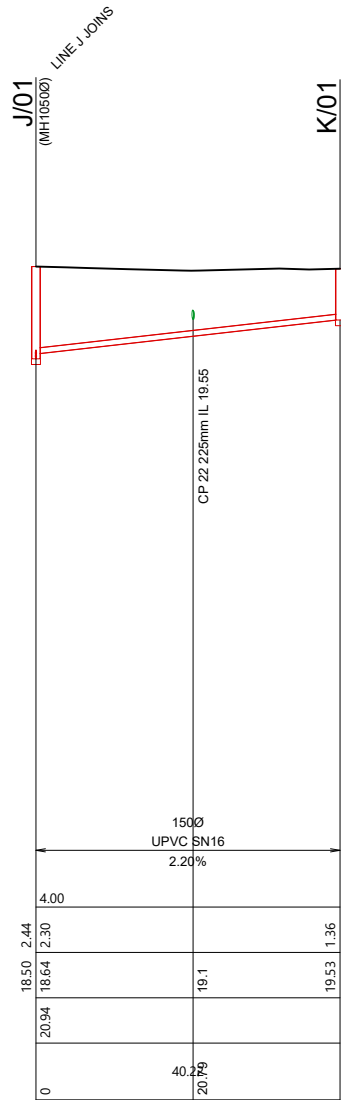
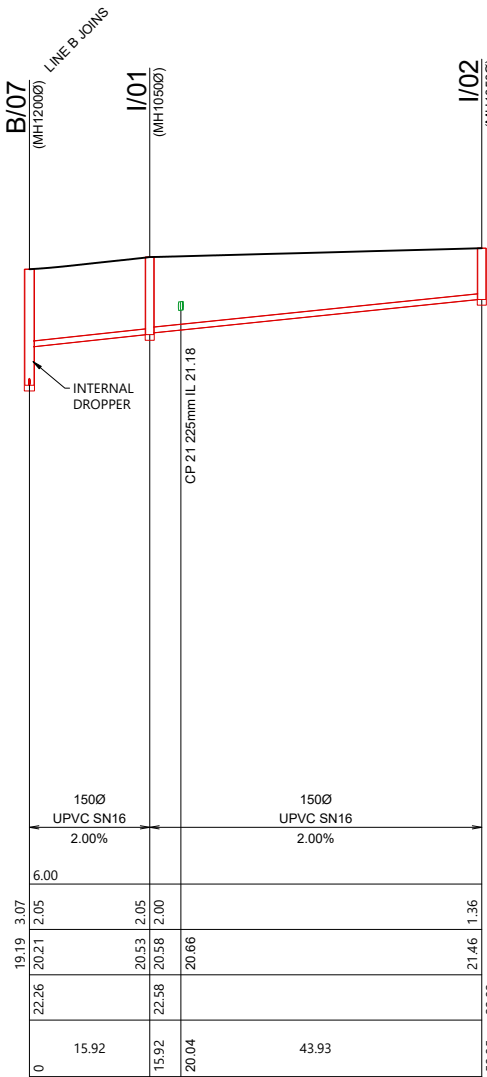
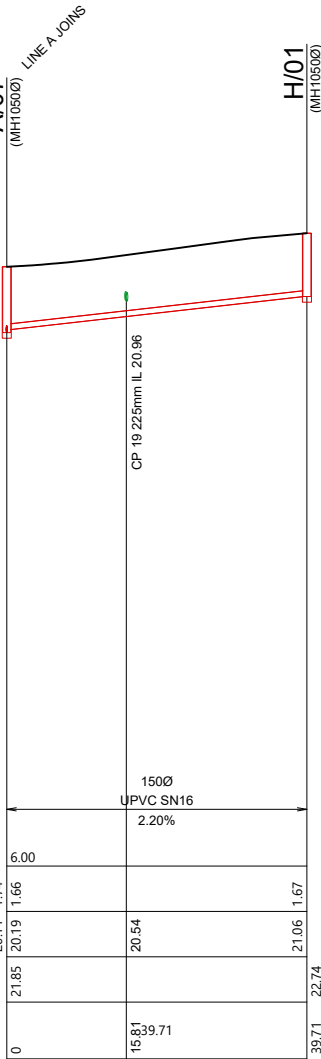
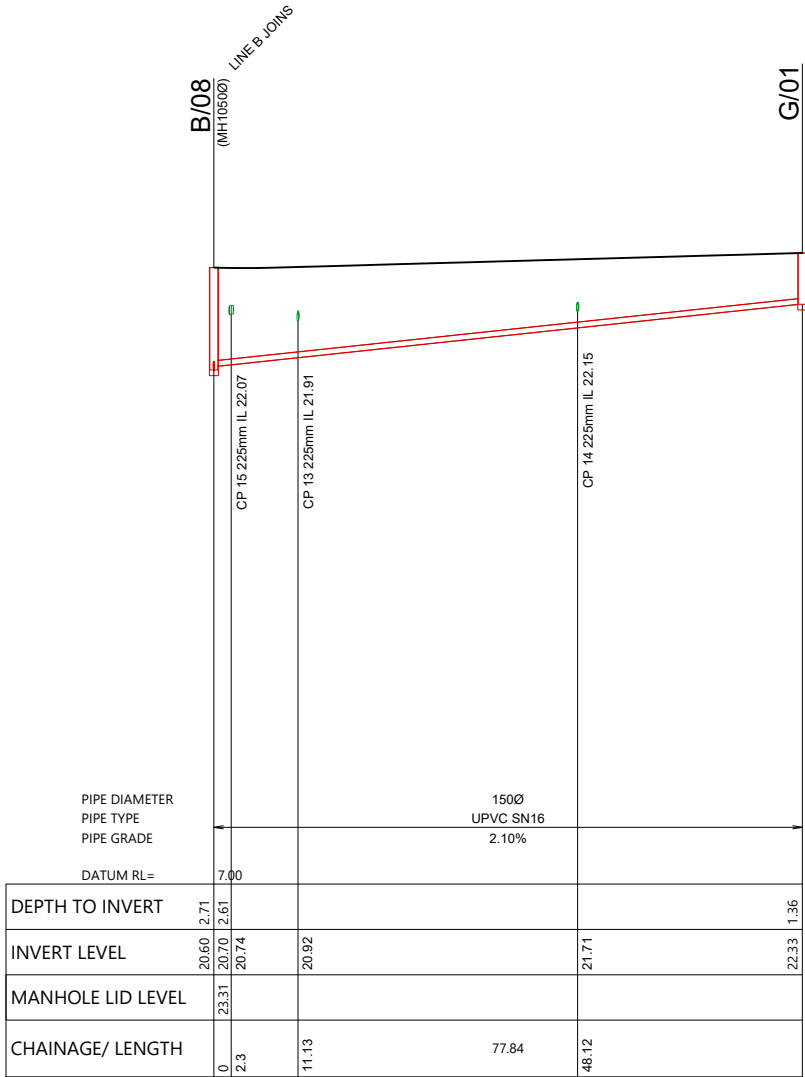


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ARATAKI DEVELOPMENT - HAVELOCK NORTH
WASTEWATER LONGSECTION
SHEET 6

STATUS	ISSUED FOR CONSENT	REV
SCALE	H 1:1000 V 1:200 @ A3	2
COUNCIL	HASTINGS DISTRICT COUNCIL	
DWG NO	P24-244-00-4505-DR	



REVISION DETAILS		INT	DATE	SURVEYED	WOODS
1	ISSUED FOR DISCUSSION	AS	APR 2025	DESIGNED	AS
2	ISSUED FOR CONSENT	TB	JUNE 2025	DRAWN	AS
				CHECKED	BLO
				APPROVED	BF

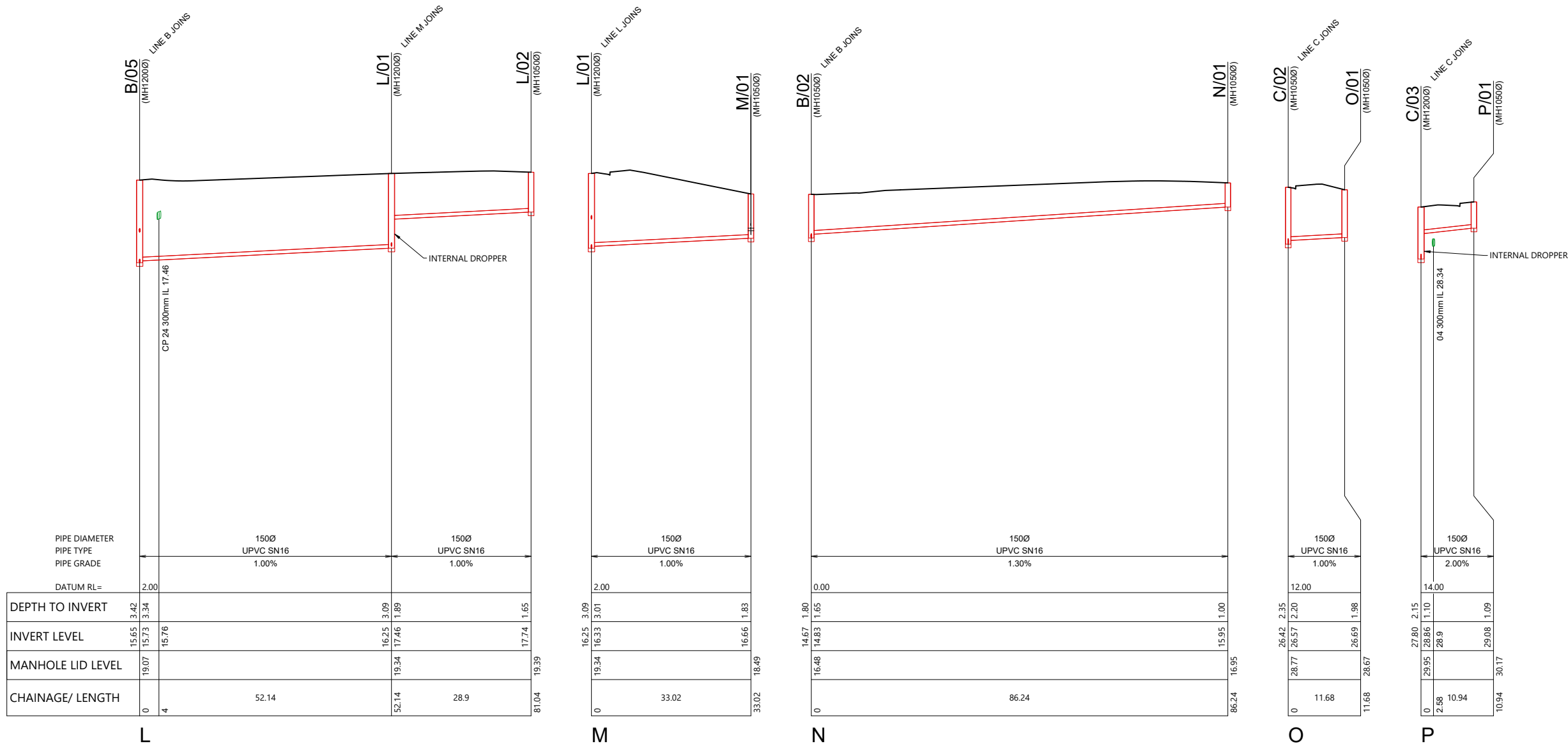


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ARATAKI DEVELOPMENT - HAVELOCK NORTH
WASTEWATER LONGSECTION
SHEET 7

STATUS	ISSUED FOR CONSENT	REV
SCALE	H 1:1000 V 1:200 @ A3	2
COUNCIL	HASTINGS DISTRICT COUNCIL	
DWG NO	P24-244-00-4506-DR	



REVISION DETAILS		INT	DATE	SURVEYED	WOODS
1	ISSUED FOR DISCUSSION	AS	APR 2025	DESIGNED	AS
2	ISSUED FOR CONSENT	TB	JUNE 2025	DRAWN	AS
				CHECKED	BLO
				APPROVED	BF



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ARATAKI DEVELOPMENT - HAVELOCK NORTH
WASTEWATER LONGSECTION
SHEET 8

STATUS	ISSUED FOR CONSENT	REV
SCALE	H 1:1000 V 1:200 @ A3	2
COUNCIL	HASTINGS DISTRICT COUNCIL	
DWG NO	P24-244-00-4507-DR	

LEGEND

PROPOSED STORMWATER LINE AND PIT



EXISTING STORMWATER

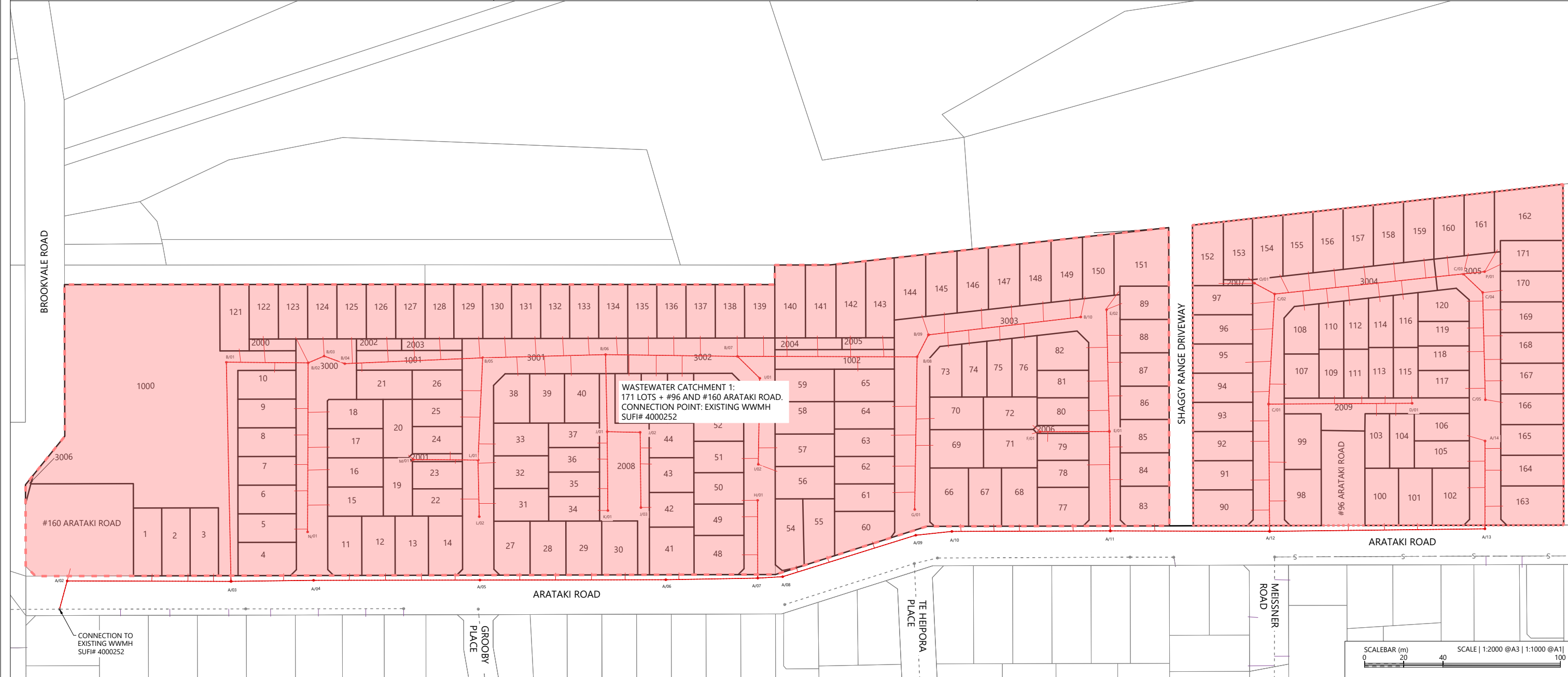




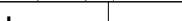
CATCHMENT 1



NOTES

1. ALL WORKS & MATERIALS TO COMPLY WITH HASTINGS DISTRICT COUNCIL STANDARDS.
2. FOR PIPE BEDDING DETAILS REFER TO STANDARD DETAIL SHEETS UNLESS OTHERWISE NOTED ON THE DRAINAGE LONG SECTIONS IN WHICH CASE SUCH NOTES TAKE PRECEDENCE.
3. WW PIPES TO BE 150MMØ UPVC SN16. UNLESS OTHERWISE NOTED ON THE DRAINAGE LONG SECTION IN WHICH CASE SUCH NOTES SHALL TAKE PRECEDENCE.
4. ALL PIPE CROSSINGS UNDER ROADS TO BE HARDFILL BACKFILLED.
5. ALL WW LOT CONNECTIONS TO BE 100MMØ. RAMPED RISERS ARE TO BE EXTENDED & CAPPED OFF 1.0M BELOW THE FINISHED GROUND SURFACE.
6. ALL MANHOLES TO BE 1050MMØ UNLESS OTHERWISE NOTED ON THE DRAINAGE LONG SECTION IN WHICH CASE SUCH NOTES SHALL TAKE PRECEDENCE.
7. THE CONTRACTOR IS TO PEG MANHOLES & CHECK FINISHED EARTHWORKS LEVELS (MH LID LEVELS) PRIOR TO ORDERING MANHOLES.
8. ALL MANHOLE LIDS IN SHARED PATHS AND CYCLEWAYS TO HAVE A CYCLIST FRIENDLY COVER.
9. PIPE GRADES ON THE LONG SECTIONS ARE CALCULATED FROM MANHOLE SIDE TO MANHOLE SIDE. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT LASER LEVELS ARE SET TO COMPENSATE FOR THIS.

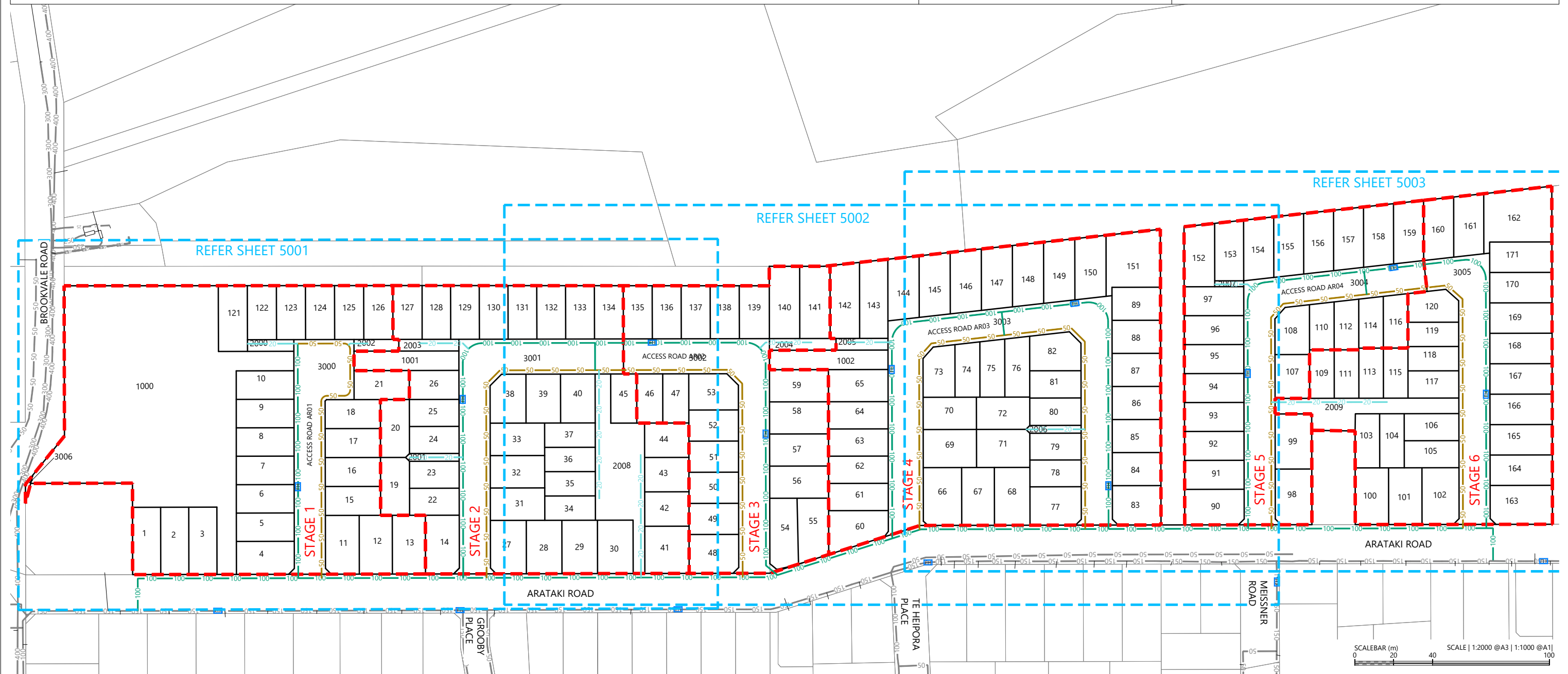


REVISION DETAILS		INT	DATE	SURVEYED	WOODS		BUILDING B, LEVEL 1 8 NUGENT ST, GRAFTON, AUCKLAND 1023 +64 9 308 9229 WOODS.CO.NZ		ARATAKI DEVELOPMENT - HAVELOCK NORTH					STATUS	ISSUED FOR CONSENT	REV
1	ISSUED FOR DISCUSSION	AS	APR 2025	DESIGNED	AS				WASTEWATER CATCHMENT PLAN					SCALE	1:2000 @ A3	2
2	ISSUED FOR CONSENT	TB	JUNE 2025	DRAWN	AS									COUNCIL	HASTINGS DISTRICT COUNCIL	
				CHECKED	BLO									DWG NO	P24-244-00-4600-DR	
				APPROVED	BF											



LEGEND	
STAGE BOUNDARIES	
PROPOSED PRIVATE WATER RETICULATION	
PROPOSED 50mm ID WATER RETICULATION	
PROPOSED 100mm ID WATER RETICULATION	
PROPOSED 150mm ID WATER RETICULATION	
EXISTING 50mm ID WATER RETICULATION	
EXISTING 100mm ID WATER RETICULATION	
EXISTING 150mm ID WATER RETICULATION	
FIRE HYDRANT	

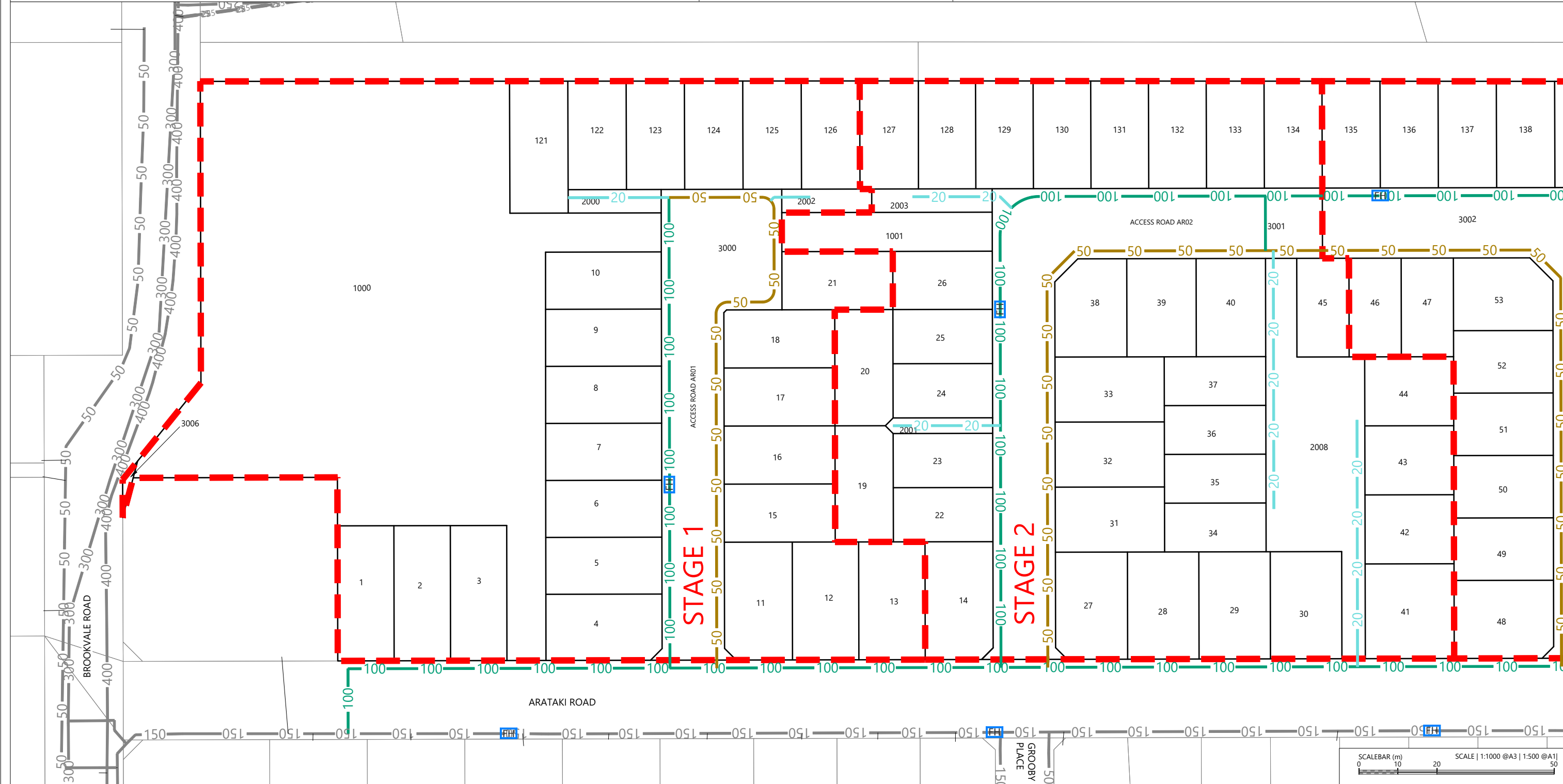
- NOTES
1. ALL WORKS AND MATERIALS TO COMPLY WITH HASTINGS DISTRICT COUNCIL ENGINEERING COP. ANY AMBIGUITY BETWEEN THESE DRAWINGS AND COUNCIL STANDARDS IS TO BE REFERRED TO THE ENGINEER FOR CLARIFICATION.
 2. ALL WATERMAIN TO HAVE MIN. COVER OF 600mm UNDER BERM & 900mm UNDER CARRIAGEWAY. ALL ROAD CROSSINGS ARE TO BE HARDFILL BACKFILLED WITH MIN. 900mm COVER.
 3. CONNECTIONS TO EXISTING COUNCIL WATERMAINS ARE TO BE MADE ONLY AFTER TESTING, STERILISATION AND ACCEPTANCE BY HASTINGS DISTRICT COUNCIL. CONNECTIONS TO BE MADE IN ACCORDANCE WITH COUNCIL'S WATER SUPPLY CONNECTION POLICY.
 4. ALL PIPE MATERIAL TO BE PE100 WITH PRESSURE RATING OF PN12.5. UNLESS INDICATED OTHERWISE. ALL PIPE TO INCLUDE TRACER WIRE.
 5. ALL PIPES ARE SHOWN AS NOMINAL INTERNAL DIAMETER (ID).
 6. PE80 SDR11 PIPES ARE NOT TO BE WELDED TO A PE100 SDR 13.6 PIPE OF THE SAME NOMINAL DIAMETER.
 7. ALL 20mmOD SERVICE LINES (PRIVATE) ARE TO BE INSTALLED AS PER HASTINGS DISTRICT COUNCIL ENGINEERING COP WS 509.
 8. ALL BENDS ARE TO BE PROVIDED WITH A 45° FITTINGS AND THRUST BLOCKS TO DISTRICT COUNCIL ENGINEERING COP.
 9. NO VALVES OR FITTINGS ARE SHOWN ON THIS PLAN. THE NUMBER AND LOCATION OF ALL VALVES AND FITTINGS ARE TO BE DESIGNED AT ENGINEERING APPROVAL PHASE.



REVISION DETAILS		INT	DATE	SURVEYED	WOODS		BUILDING B, LEVEL 1 8 NUGENT ST, GRAFTON, AUCKLAND 1023 +64 9 308 9229 WOODS.CO.NZ		ARATAKI DEVELOPMENT - HAVELOCK NORTH WATER RETICULATION LAYOUT OVERALL PLAN			STATUS	ISSUED FOR CONSENT	REV
1	ISSUED FOR DISCUSSION	BM	APR 2025	DESIGNED	CJ							SCALE	1:2000 @ A3	2
2	ISSUED FOR CONSENT	AS	JUN 2025	DRAWN	BM							COUNCIL	AUCKLAND COUNCIL	
				CHECKED	BLO							DWG NO	P24-244-00-5000-WR	
				APPROVED	BF									

- NOTES
1. ALL WORKS AND MATERIALS TO COMPLY WITH HASTINGS DISTRICT COUNCIL ENGINEERING COP. ANY AMBIGUITY BETWEEN THESE DRAWINGS AND COUNCIL STANDARDS IS TO BE REFERRED TO THE ENGINEER FOR CLARIFICATION.
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- STAGE BOUNDARIES
- PROPOSED PRIVATE WATER RETICULATION
- PROPOSED 50mm ID WATER RETICULATION
- PROPOSED 100mm ID WATER RETICULATION
- PROPOSED 150mm ID WATER RETICULATION
- EXISTING 50mm ID WATER RETICULATION
- EXISTING 100mm ID WATER RETICULATION
- EXISTING 150mm ID WATER RETICULATION
- FIRE HYDRANT

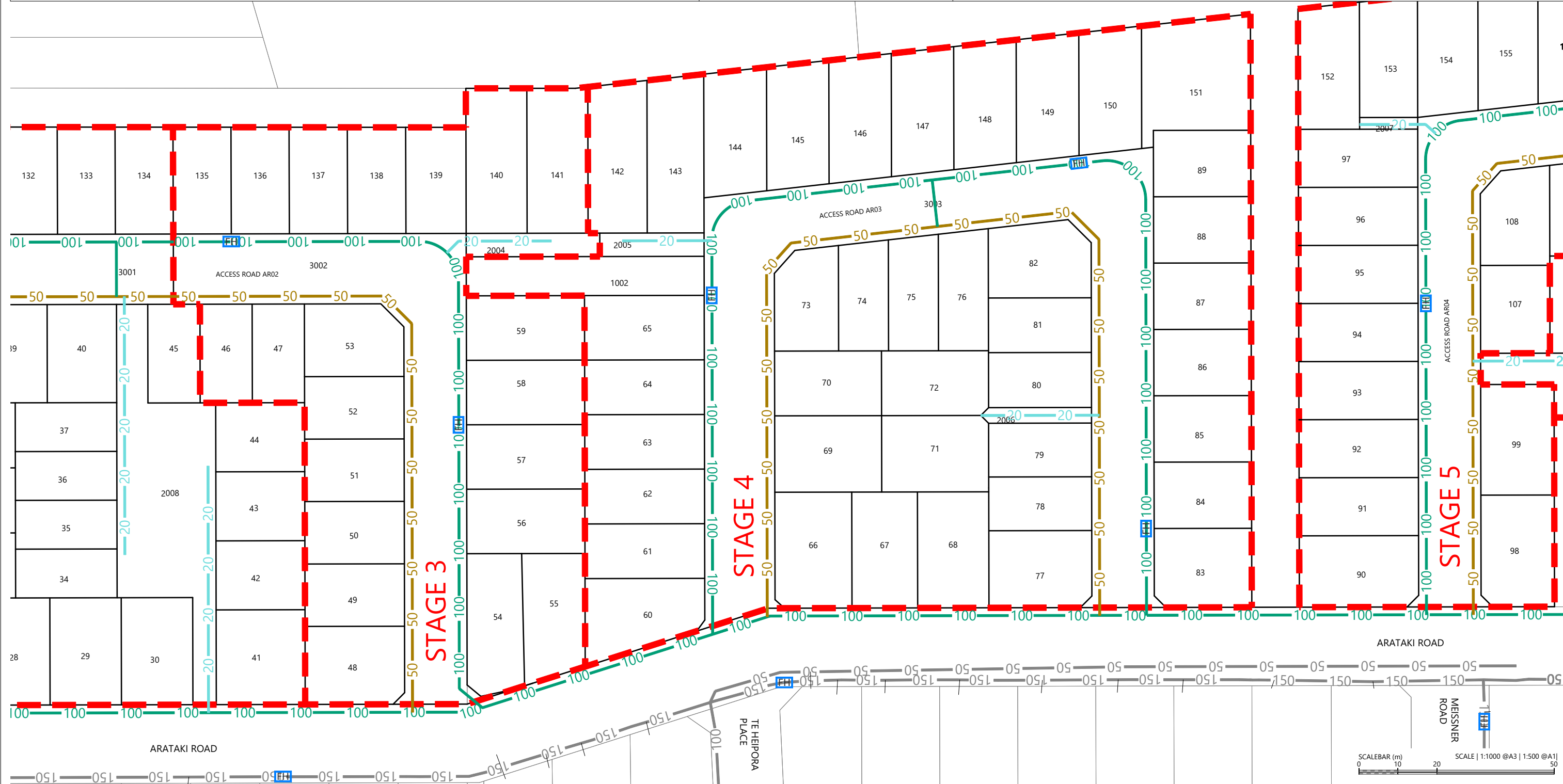


REVISION DETAILS		INT	DATE	SURVEYED	WOODS		BUILDING B, LEVEL 1 8 NUGENT ST, GRAFTON, AUCKLAND 1023 +64 9 308 9229 WOODS.CO.NZ	ARATAKI DEVELOPMENT - HAVELOCK NORTH WATER RETICULATION LAYOUT PLAN - SHEET 1				STATUS	ISSUED FOR CONSENT	REV
2	ISSUED FOR CONSENT	AS	JUN 2025	DESIGNED	CJ							SCALE	1:1000 @ A3	2
				DRAWN	BM							COUNCIL	AUCKLAND COUNCIL	
				CHECKED	BLO							DWG NO	P24-244-00-5001-WR	
				APPROVED	BF									



- NOTES
1. ALL WORKS AND MATERIALS TO COMPLY WITH HASTINGS DISTRICT COUNCIL ENGINEERING COP. ANY AMBIGUITY BETWEEN THESE DRAWINGS AND COUNCIL STANDARDS IS TO BE REFERRED TO THE ENGINEER FOR CLARIFICATION.
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- STAGE BOUNDARIES
- PROPOSED PRIVATE WATER RETICULATION
- PROPOSED 50mm ID WATER RETICULATION
- PROPOSED 100mm ID WATER RETICULATION
- PROPOSED 150mm ID WATER RETICULATION
- EXISTING 50mm ID WATER RETICULATION
- EXISTING 100mm ID WATER RETICULATION
- EXISTING 150mm ID WATER RETICULATION
- FIRE HYDRANT



REVISION DETAILS		INT	DATE	SURVEYED	WOODS
2	ISSUED FOR CONSENT	AS	JUN 2025	DESIGNED	CJ
				DRAWN	BM
				CHECKED	BLO
				APPROVED	BF

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ARATAKI DEVELOPMENT - HAVELOCK NORTH

WATER RETICULATION LAYOUT PLAN - SHEET 2

STATUS	ISSUED FOR CONSENT	REV
SCALE	1:1000 @ A3	2
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P24-244-00-5002-WR	


LEGEND

STAGE BOUNDARIES	
PROPOSED PRIVATE WATER RETICULATION	
PROPOSED 50mm ID WATER RETICULATION	
PROPOSED 100mm ID WATER RETICULATION	
PROPOSED 150mm ID WATER RETICULATION	
EXISTING 50mm ID WATER RETICULATION	
EXISTING 100mm ID WATER RETICULATION	
EXISTING 150mm ID WATER RETICULATION	
FIRE HYDRANT	


NOTES

1. ALL WORKS AND MATERIALS TO COMPLY WITH HASTINGS DISTRICT COUNCIL ENGINEERING COP. ANY AMBIGUITY BETWEEN THESE DRAWINGS AND COUNCIL STANDARDS IS TO BE REFERRED TO THE ENGINEER FOR CLARIFICATION.
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5. ALL PIPES ARE SHOWN AS NOMINAL INTERNAL DIAMETER (ID).
6. PE80 SDR11 PIPES ARE NOT TO BE WELDED TO A PE100 SDR 13.6 PIPE OF THE SAME NOMINAL DIAMETER.
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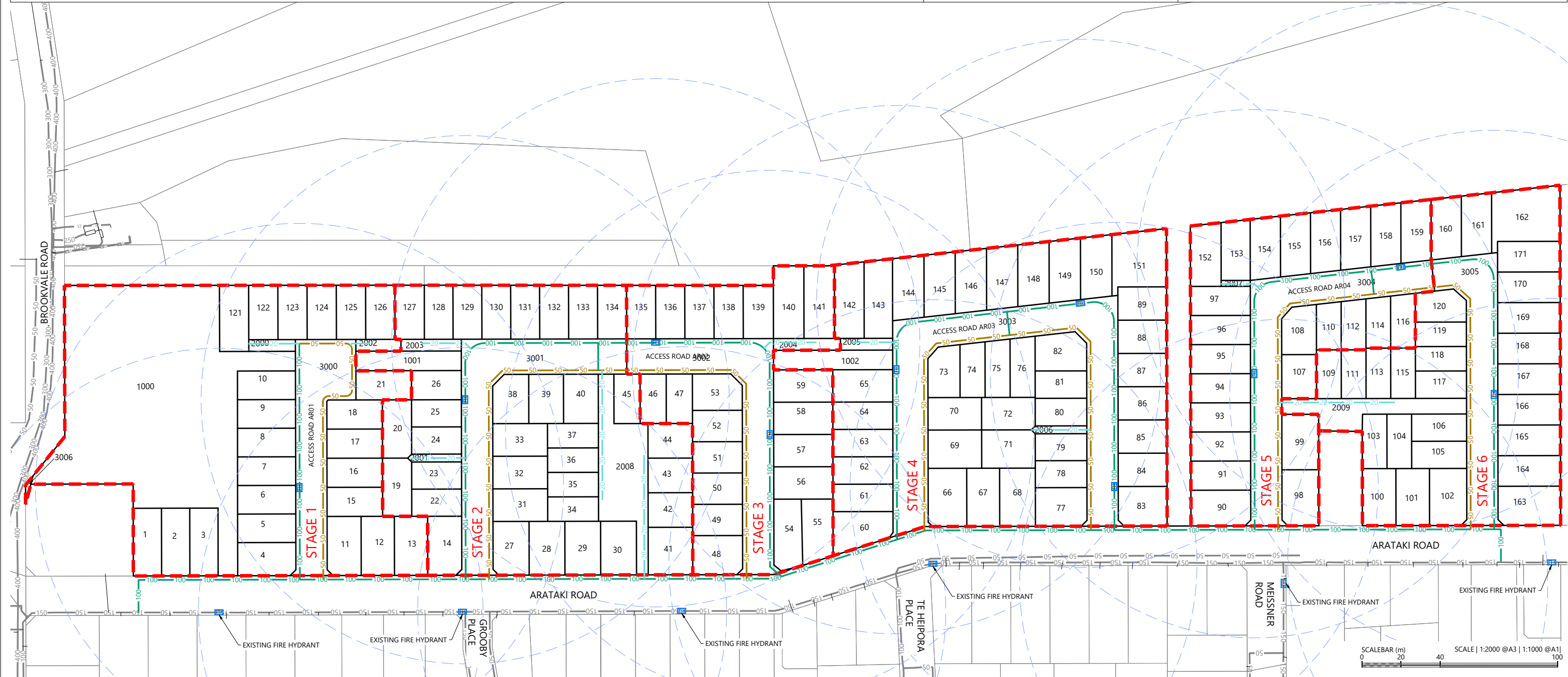
REVISION DETAILS		INT	DATE	SURVEYED	WOODS		<div>BUILDING B, LEVEL 1 8 NUGENT ST, GRAFTON, AUCKLAND 1023 +64 9 308 9229 WOODS.CO.NZ</div>		ARATAKI DEVELOPMENT - HAVELOCK NORTH					STATUS	ISSUED FOR CONSENT	REV
2	ISSUED FOR CONSENT	AS	JUN 2025	DESIGNED	CJ				SCALE	1:1000 @ A3	2					
				DRAWN	BM				COUNCIL	AUCKLAND COUNCIL						
				CHECKED	BLO				DWG NO	P24-244-00-5003-WR						
				APPROVED	BF											

LEGEND

STAGE BOUNDARIES	---
PROPOSED PRIVATE WATER RETICULATION	20 20 20
PROPOSED 50mm ID WATER RETICULATION	50 50 50
PROPOSED 100mm ID WATER RETICULATION	100 100 100
PROPOSED 150mm ID WATER RETICULATION	150 150 150
EXISTING 50mm ID WATER RETICULATION	50 50 50
EXISTING 100mm ID WATER RETICULATION	100 100 100
EXISTING 150mm ID WATER RETICULATION	150 150 150
PROPOSED FIRE HYDRANT WITH 135m RADIUS	

NOTES

1. ALL WORKS AND MATERIALS TO COMPLY WITH HASTINGS DISTRICT COUNCIL ENGINEERING COP. ANY AMBIGUITY BETWEEN THESE DRAWINGS AND COUNCIL STANDARDS IS TO BE REFERRED TO THE ENGINEER FOR CLARIFICATION.
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2	ISSUED FOR CONSENT	TB	JUNE 2025	DRAWN	BM
				CHECKED	BLO
				APPROVED	BF



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ARATAKI DEVELOPMENT - HAVELOCK NORTH
FIRE HYDRANT SPACING PLAN



STATUS	ISSUED FOR CONSENT	REV
SCALE	1:2000 @ A3	2
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P24-244-00-5500-WR	