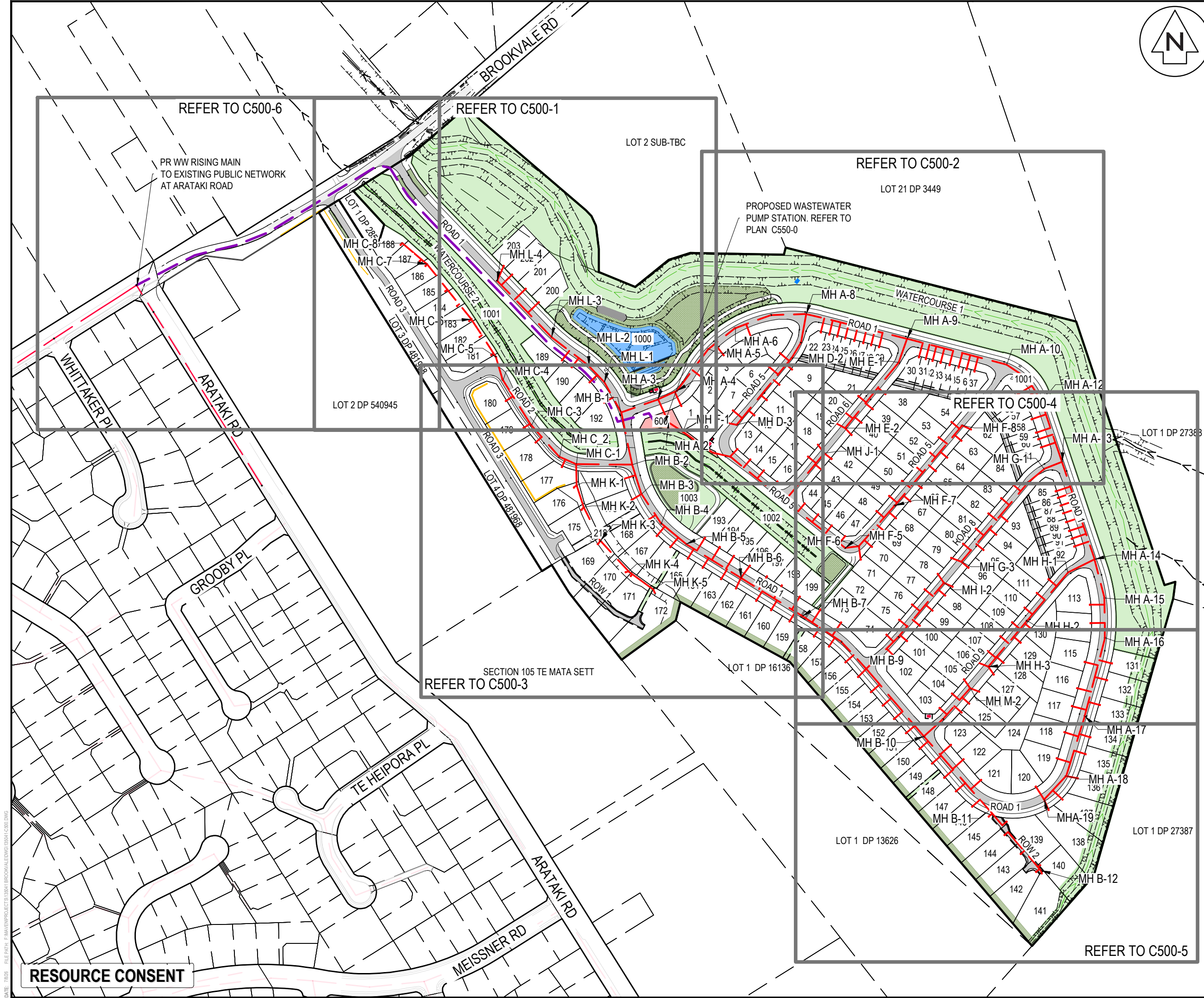




- NOTES
1. ALL WORKS TO BE IN ACCORDANCE WITH HASTING COUNCIL STANDARDS.
 2. COORDINATES IN TERMS OF NZ GEODETIC DATUM MT EDEN 2000. LEVELS IN TERMS OF THE NEW ZEALAND VERTICAL DATUM 2016.
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 4. PIPE BEDDING: 0 - 10% GRANULAR BEDDING, 10 - 20% WEAK CONCRETE BEDDING, GREATER THAN 20% WEAK CONCRETE BEDDING (7MPA PLUS ANTI SCOUR BLOCKS AT 6M CRS).
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 12. ALL LINES TO BE ABANDONED SHALL BE SEALED AT EACH END. TIMING OF ALL SEALING TO BE COORDINATED WITH COUNCIL STAFF.

LEGEND

	EX BDY
	PROP BDY
	EX WASTEWATER
	PROP WASTEWATER
	PR PRIVATE WW
	EX/PROP WWMH
	PR WW LOT CON
	PR WW RISING MAIN
	PR PUBLIC SW
	PR WETLAND
	PR WW PUMP STATION

A	SUBSTANTIVE APPLICATION	RH	06/2026
Rev	Description	By	Date
		By	Date
Survey	TECH SP		02/2025
Design	RH		06/2026
Drawn	RH		06/2026
Checked	BB		07/2026



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Project
**BROOKVALE GREEN
HAVELOCK NORTH
FOR
VERMONT STREET
PARTNERS NO. 4 LIMITED**

Title
**PROPOSED
WASTEWATER DRAINAGE
OVERVIEW PLAN**

Project no.	135041		
Scale	1:3000 @ A3		
Cad file	135041-C500.DWG		
Drawing no.	C500-0	Rev	A

RESOURCE CONSENT

DATE: 7/2025 FILEPATH: F:\MVEN\PROJECTS\135041 BROOKVALE\DWG\035041-C500.DWG



- NOTES
1. ALL WORKS TO BE IN ACCORDANCE WITH HASTING COUNCIL STANDARDS.
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LEGEND

	EX BDY
	PROP BDY
	EX WASTEWATER
	PROP WASTEWATER
	PR PRIVATE WW
	EX/PROP WWMH
	PR WW LOT CON
	PR WW RISING MAIN
	PR PUBLIC SW
	PR WETLAND
	PR WW PUMP STATION

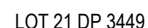
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Rev	Description	By	Date
		By	Date
Survey	TECH SP		02/2025
Design	RH		06/2026
Drawn	RH		06/2026
Checked	BB		07/2026

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Auckland 1023

Project
**BROOKVALE GREEN
HAVELOCK NORTH
FOR
VERMONT STREET
PARTNERS NO. 4 LIMITED**

Title
**PROPOSED
WASTEWATER
DRAINAGE PLAN**

Project no.	135041
Scale	1:1000 @ A3
Cad file	135041-C500.DWG
Drawing no.	C500-1
Rev	A



- LEGEND**
- | | |
|--|--------------------|
| | EX BDY |
| | PROP BDY |
| | EX WASTEWATER |
| | PROP WASTEWATER |
| | PR PRIVATE WW |
| | EX/PROP WWMH |
| | PR WW LOT CON |
| | PR WW RISING MAIN |
| | PR PUBLIC SW |
| | PR WETLAND |
| | PR WW PUMP STATION |

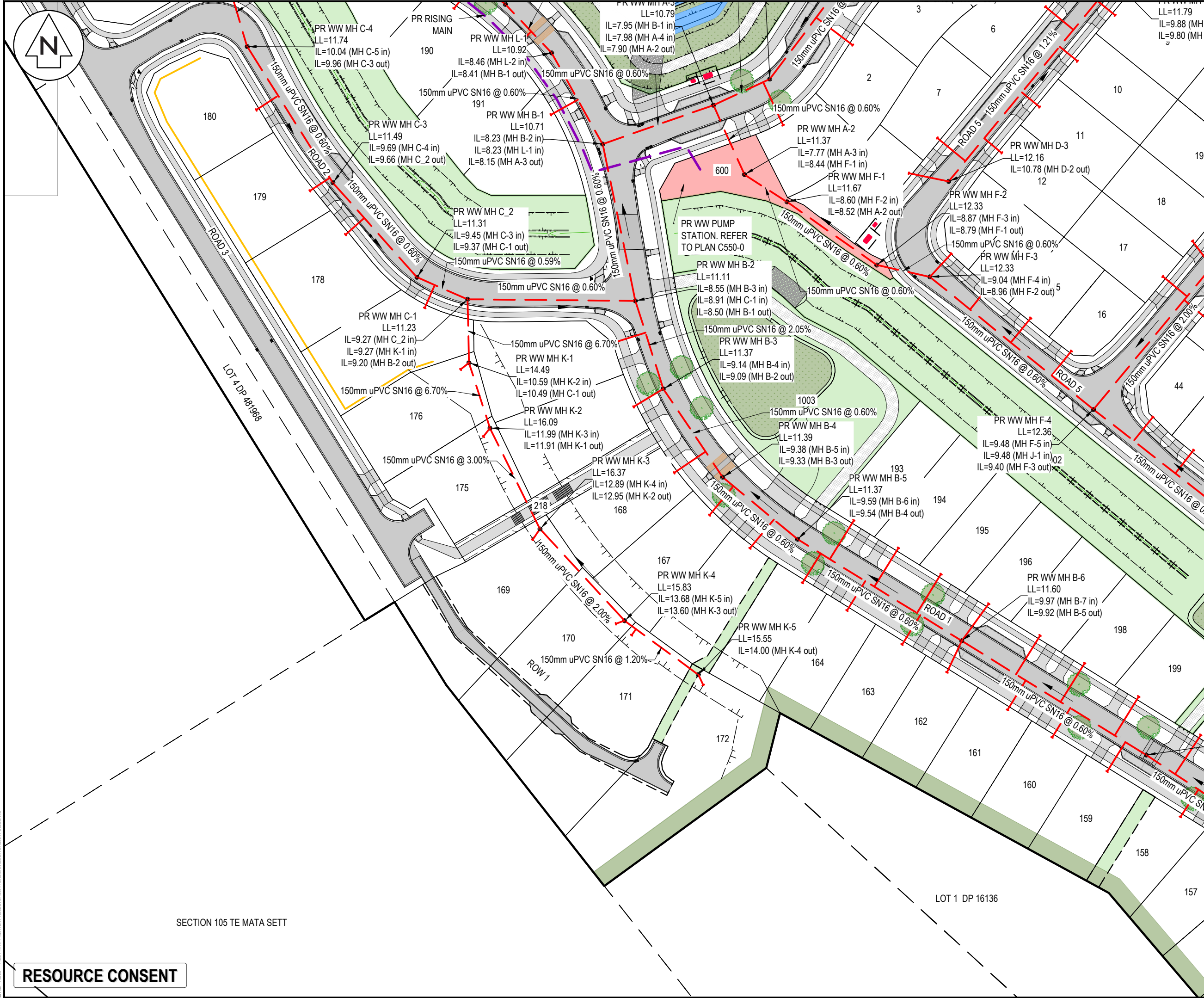
M[®]
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5 Owens Road, Epsom
Auckland 1023

Title
**PROPOSED
WASTEWATER
DRAINAGE PLAN**

Project no.	135041		
Scale	1:1000 @ A3		
Cad file	135041-C500.DWG		
Drawing no.	C500-2	Rev	A

RESOURCE CONSENT

DATE: 7/8/26 FILE PATH: F:\MAVEN\PROJECTS\1350\1 BROOK\VAI EID\DWG\1350\1\135001.DWG



NOTES

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LEGEND

	EX BDY
	PROP BDY
	EX WASTEWATER
	PROP WASTEWATER
	PR PRIVATE WW
	EX/PROP WWMH
	PR WW LOT CON
	PR WW RISING MAIN
	PR PUBLIC SW
	PR WETLAND
	PR WW PUMP STATION

A	SUBSTANTIVE APPLICATION	RH	06/2026
Rev	Description	By	Date
Survey	TECH SP		02/2025
Design	RH		06/2026
Drawn	RH		06/2026
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Project
**BROOKVALE GREEN
HAVELOCK NORTH
FOR
VERMONT STREET
PARTNERS NO. 4 LIMITED**

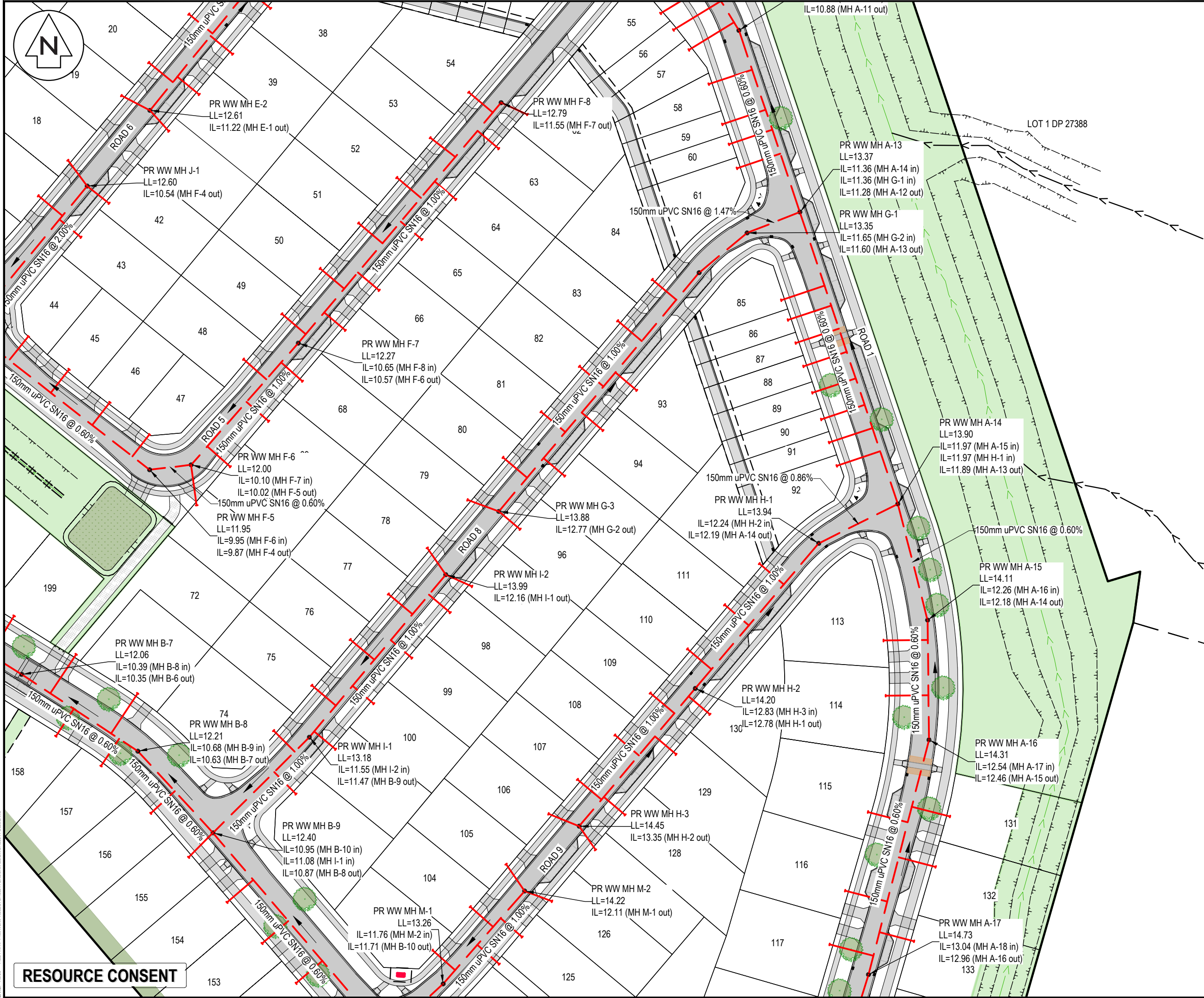
Title
**PROPOSED
WASTEWATER
DRAINAGE PLAN**

Project no.	135041
Scale	1:1000 @ A3
Cad file	135041-C500.DWG
Drawing no.	C500-3
Rev	A

RESOURCE CONSENT

SECTION 105 TE MATA SETT

DATE: 7/2026 FILE PATH: F:\MVEN\PROJECTS\135041 BROOKVALE.DWG\03041.C500.DWG



NOTES

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	EX BDY
	PROP BDY
	EX WASTEWATER
	PROP WASTEWATER
	PR PRIVATE WW
	EX/PROP WWMH
	PR WW LOT CON
	PR WW RISING MAIN
	PR PUBLIC SW
	PR WETLAND
	PR WW PUMP STATION

A	SUBSTANTIVE APPLICATION	RH	06/2026
Rev	Description	By	Date
Survey	TECH SP		02/2025
Design	RH		06/2026
Drawn	RH		06/2026
Checked	BB		07/2026

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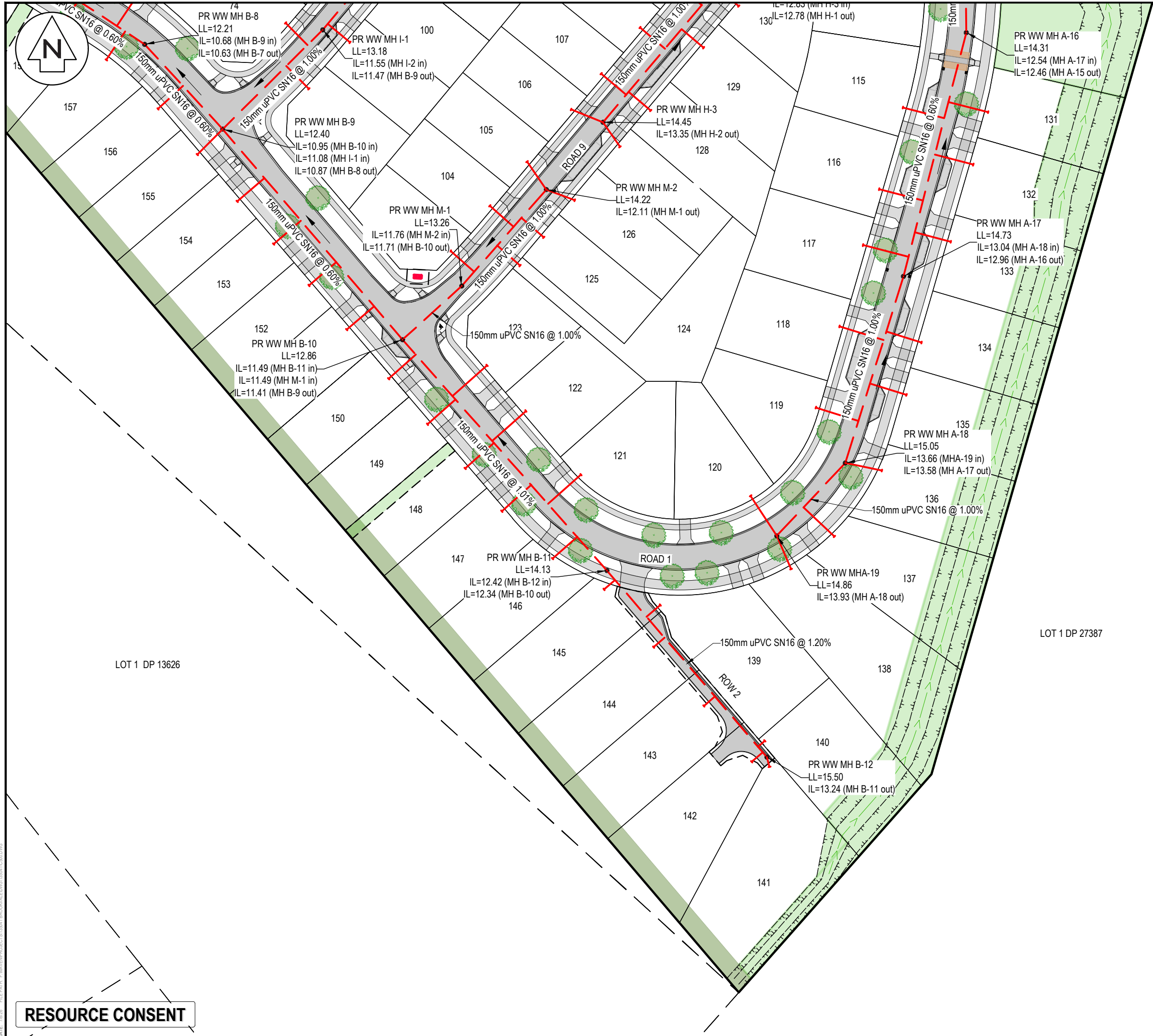
Project
**BROOKVALE GREEN
HAVELOCK NORTH
FOR
VERMONT STREET
PARTNERS NO. 4 LIMITED**

Title
**PROPOSED
WASTEWATER
DRAINAGE PLAN**

Project no.	135041
Scale	1:1000 @ A3
Cad file	135041-C500.DWG
Drawing no.	C500-4
Rev	A

RESOURCE CONSENT

DATE: 7/2026 FILEPATH: F:\MVEN\PROJECTS\135041 BROOKVALE\DWG\135041-C500.DWG



- NOTES
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LEGEND

	EX BDY
	PROP BDY
	EX WASTEWATER
	PROP WASTEWATER
	PR PRIVATE WW
	EX/PROP WWMH
	PR WW LOT CON
	PR WW RISING MAIN
	PR PUBLIC SW
	PR WETLAND
	PR WW PUMP STATION

A	SUBSTANTIVE APPLICATION	RH	06/2026
Rev	Description	By	Date
		By	Date
Survey	TECH SP		02/2025
Design	RH		06/2026
Drawn	RH		06/2026
Checked	BB		07/2026

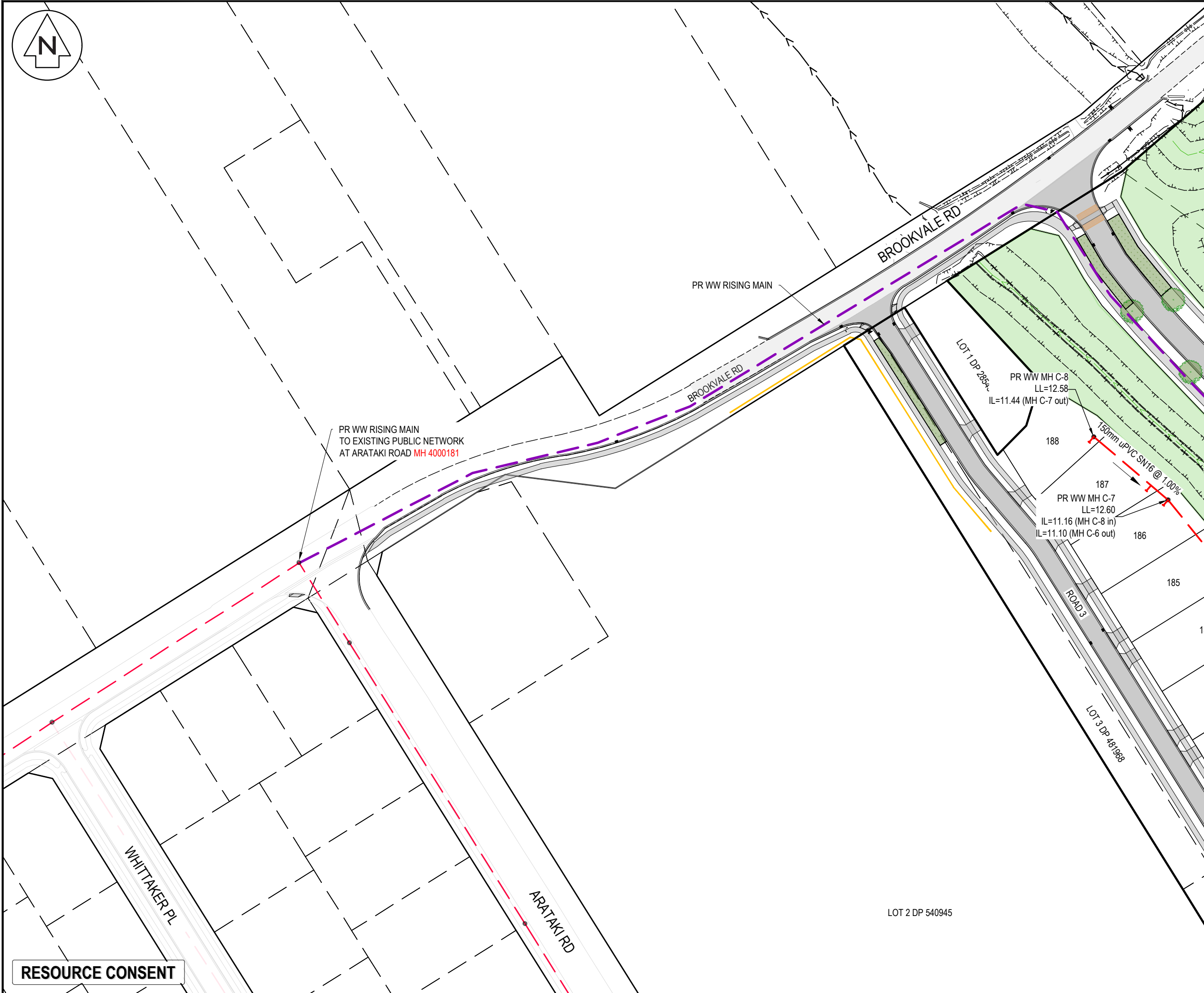
 **Maven Associates**
09 571 0050
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5 Owens Road, Epsom
Auckland 1023

Project
**BROOKVALE GREEN
HAVELOCK NORTH
FOR
VERMONT STREET
PARTNERS NO. 4 LIMITED**

Title
**PROPOSED
WASTEWATER
DRAINAGE PLAN**

Project no.	135041
Scale	1:1000 @ A3
Cad file	135041-C500.DWG
Drawing no.	C500-5
Rev	A

RESOURCE CONSENT



- NOTES
1. ALL WORKS TO BE IN ACCORDANCE WITH HASTING COUNCIL STANDARDS.
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LEGEND

	EX BDY
	PROP BDY
	EX WASTEWATER
	PROP WASTEWATER
	PR PRIVATE WW
	EX/PROP WWMH
	PR WW LOT CON
	PR WW RISING MAIN
	PR PUBLIC SW
	PR WETLAND
	PR WW PUMP STATION

A	SUBSTANTIVE APPLICATION	RH	06/2026
Rev	Description	By	Date
Survey	TECH SP		02/2025
Design	RH		06/2026
Drawn	RH		06/2026
1	Checked	BB	07/2026



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Auckland 1023

Project

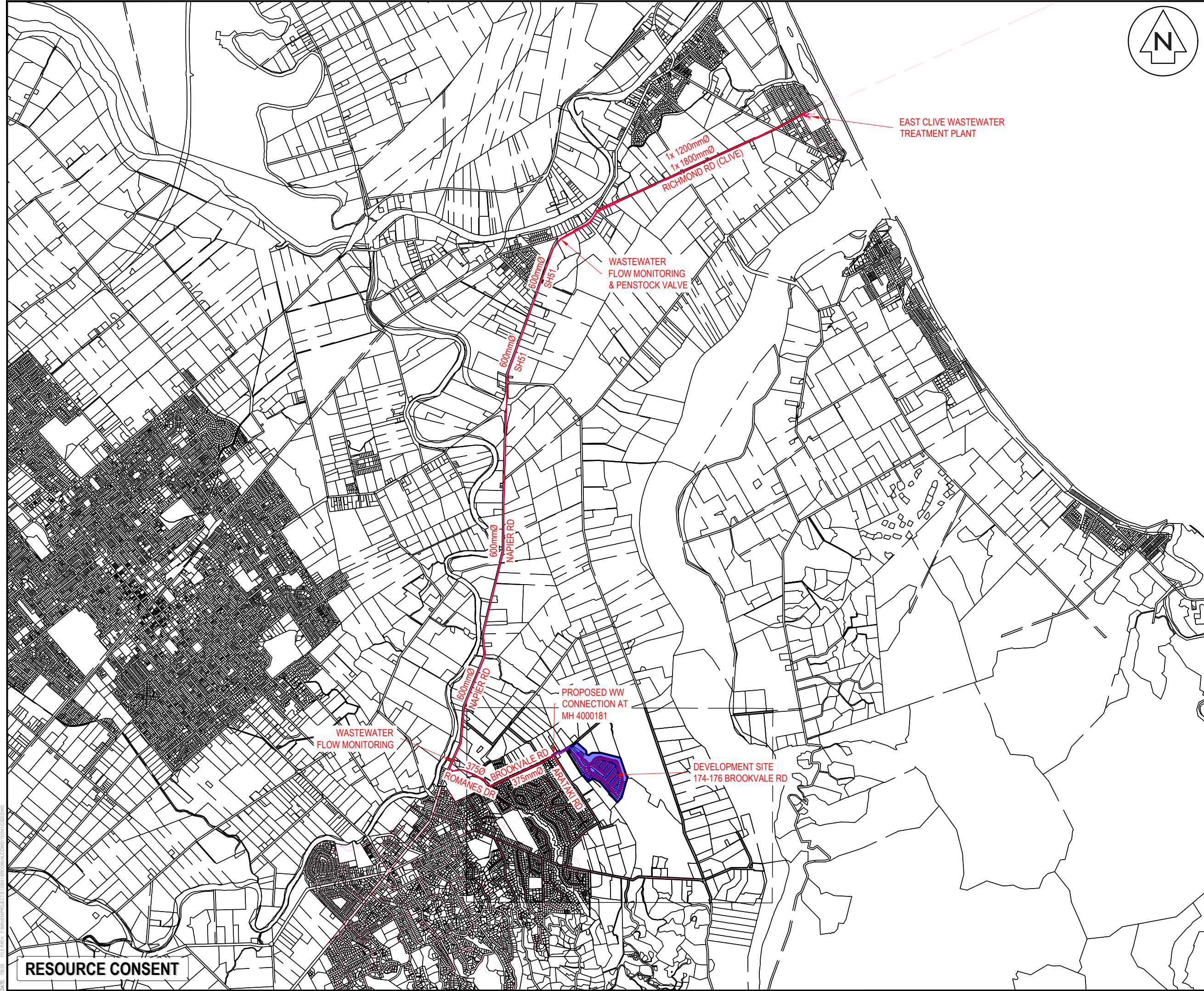
**BROOKVALE GREEN
HAVELOCK NORTH
FOR
VERMONT STREET
PARTNERS NO. 4 LIMITED**

Title

**PROPOSED
WASTEWATER
DRAINAGE PLAN**

Project no.	135041		
Scale	1:1000 @ A3		
Cad file	135041-C500.DWG		
Drawing no.	C500-6	Rev	A

RESOURCE CONSENT



- NOTES
1. ALL WORKS TO BE IN ACCORDANCE WITH HASTINGS COUNCIL STANDARDS.
 2. COORDINATES IN TERMS OF NZ GEODETIC DATUM HAWKES BAY 2000
 3. LEVELS IN TERMS OF THE NEW ZEALAND VERTICAL DATUM 2016
 4. ORIGIN OF LEVELS = IT IV SO1837/SOURCED FROM THE LINZ DIGITAL GEODETIC DATABASE.

LEGEND

	PR BDY
	EX BDY
	RT
	EX PUBLIC WW

Rev	Description	By	Date
A	SUBSTANTIVE APPLICATION	RH	06/2026
Survey	TECH SP		02/2025
Design	RH		06/2026
Drawn	RH		06/2026
Checked	BB		07/2026

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Project
**BROOKVALE GREEN
HAVELOCK NORTH
FOR
VERMONT STREET
PARTNERS NO. 4 LIMITED**

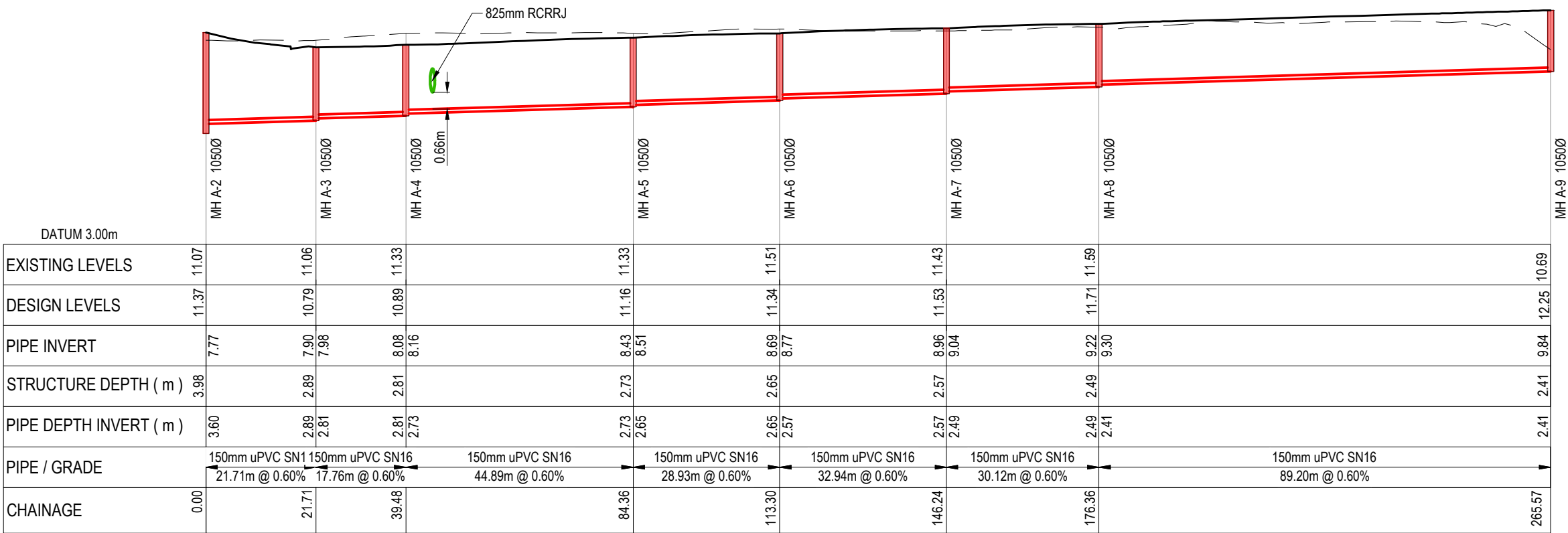
Title
**PROPOSED
WASTEWATER
OVERVIEW PLAN**

Project no.	135041		
Scale	CUSTOM @ A3		
Cad file	135041-C500.DWG		
Drawing no.	C501	Rev	A

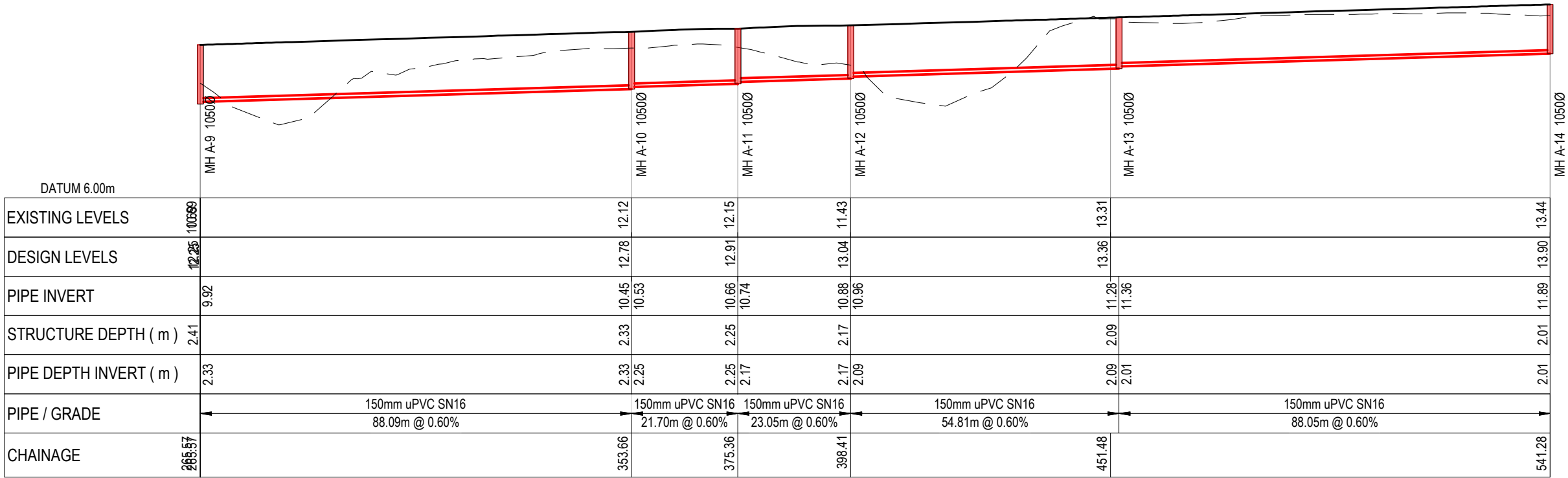
RESOURCE CONSENT

DATE: 7/20/25 FILE PATH: F:\MAVEN\PROJECTS\135041 BROOKVALE\DWG\135041-C500.DWG

DATE: 6/25/26 FILE PATH: F:\MAVEN\PROJECTS\135041-BROOKVALE\DWG\135041-C520\WVLS.DWG



PROPOSED WASTEWATER LONG SECTION LINE A.
SCALE: HORI 1:1000 VERT 1:200



PROPOSED WASTEWATER LONG SECTION LINE A CONT.
SCALE: HORI 1:1000 VERT 1:200

RESOURCE CONSENT

- NOTES
1. ALL WORKS TO BE IN ACCORDANCE WITH HASTINGS COUNCIL STANDARDS.
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LEGEND

- EX GROUND LEVEL
- PR GROUND LEVEL
- HARDFILL BACKFILL
- LOT CONNECTION
- CROSSING PIPE

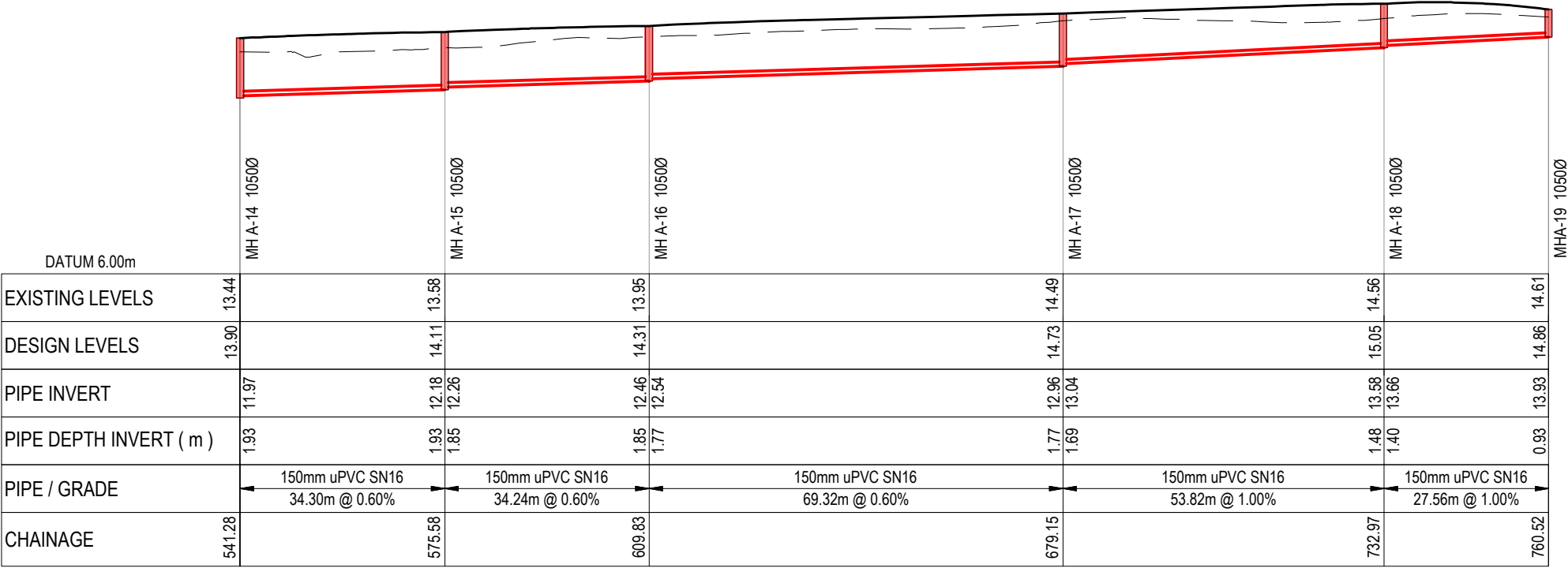
A	SUBSTANTIVE APPLICATION	RH	06/2026
Rev	Description	By	Date
	By	Date	
Survey	TECH SP	02/2025	
Design	RH	06/2026	
Drawn	RH	06/2026	
Checked	BB	06/2026	

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Auckland 1023

Project
**BROOKVALE GREEN
HAVELOCK NORTH
FOR
VERMONT STREET
PARTNERS NO. 4 LIMITED**

Title
**PROPOSED
WASTEWATER
LONG SECTION**

Project no.	135041
Scale	1:1 ORIG @ A3
Cad file	135041-C520 WW LS.DWG
Drawing no.	C520-1
Rev	A



PROPOSED WASTEWATER LONG SECTION LINE A CONT..
SCALE: HORI 1:1000 VERT 1:200

- NOTES
1. ALL WORKS TO BE IN ACCORDANCE WITH HASTINGS COUNCIL STANDARDS.
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LEGEND

- EX GROUND LEVEL
- PR GROUND LEVEL
- HARDFILL BACKFILL
- LOT CONNECTION
- CROSSING PIPE

A	SUBSTANTIVE APPLICATION	RH	06/2026
Rev	Description	By	Date
	By	Date	
Survey	TECH SP	02/2025	
Design	RH	06/2026	
Drawn	RH	06/2026	
Checked	BB	06/2026	

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Project

**BROOKVALE GREEN
HAVELOCK NORTH
FOR
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PARTNERS NO. 4 LIMITED**

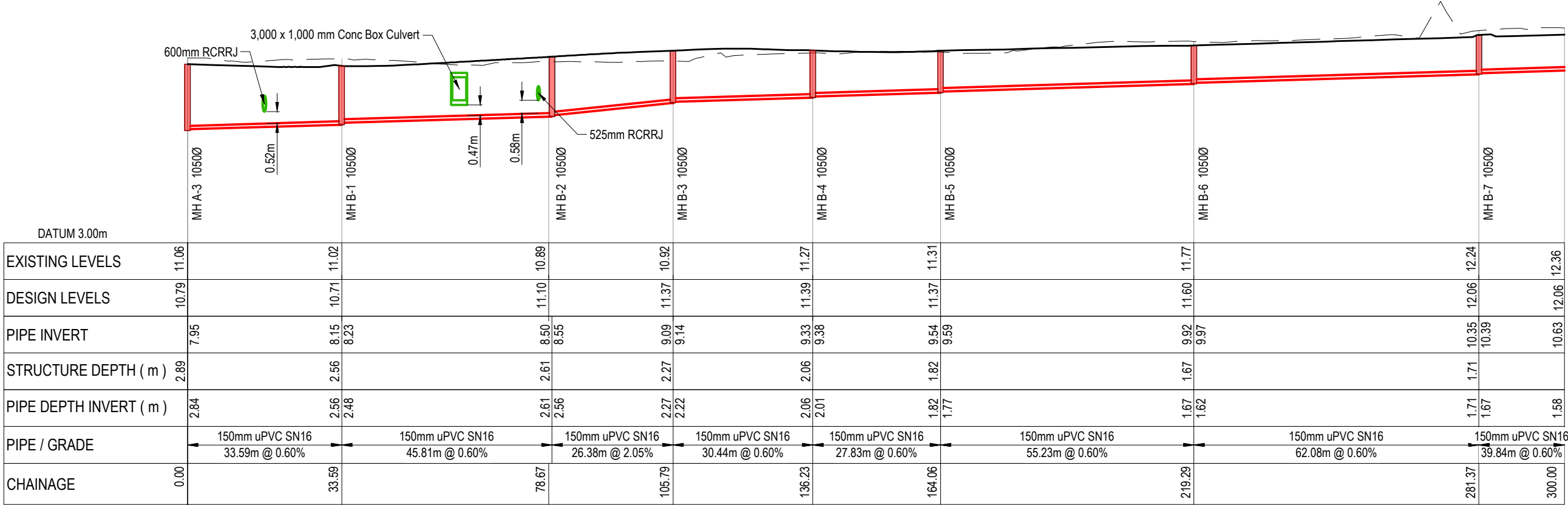
Title

**PROPOSED
WASTEWATER
LONG SECTION**

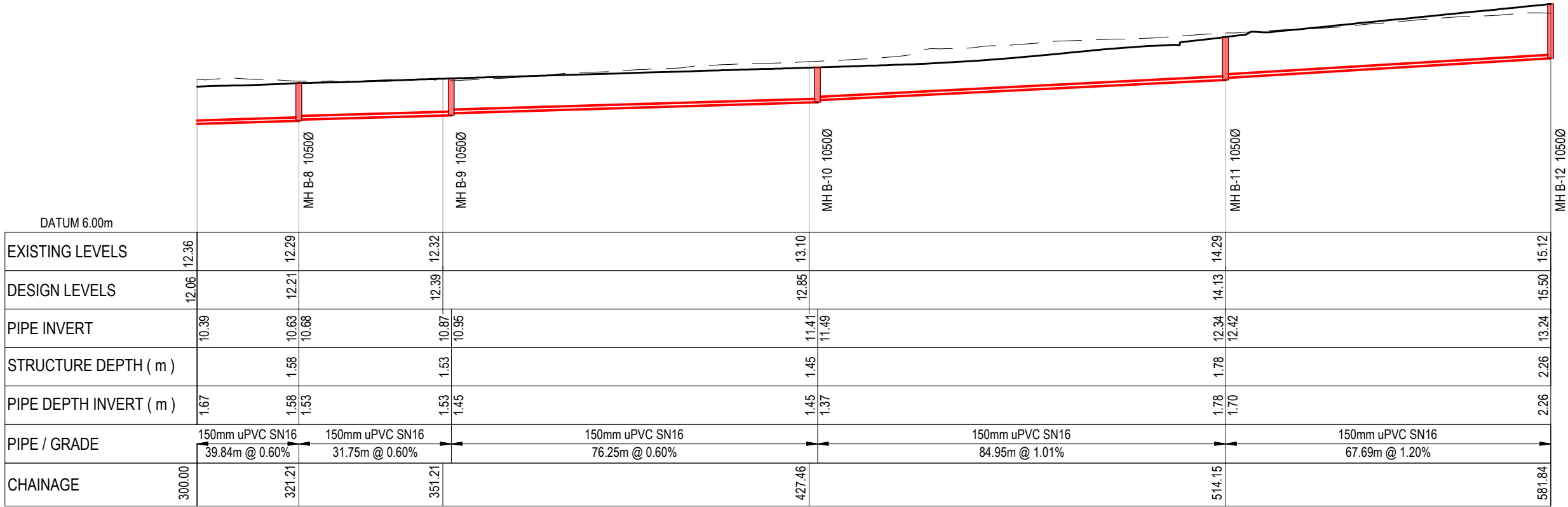
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Scale	1:1 ORIG @ A3		
Cad file	135041-C520 WW LS.DWG		
Drawing no.	C520-2	Rev	A

RESOURCE CONSENT

DATE: 6/25/26 FILEPATH: F:\Maven\PROJECTS\135041 BROOKVALE\DWG\135041-C520 WW LS.DWG



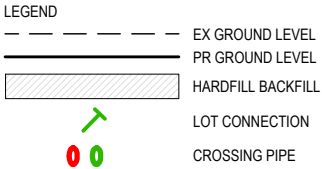
PROPOSED WASTEWATER LONG SECTION LINE B.
SCALE: HORI 1:1000 VERT 1:200



RESOURCE CONSENT

PROPOSED WASTEWATER LONG SECTION LINE B CONT.
SCALE: HORI 1:1000 VERT 1:200

- NOTES
1. ALL WORKS TO BE IN ACCORDANCE WITH HASTINGS COUNCIL STANDARDS.
 2. COORDINATES IN TERMS OF NZ GEODETIC DATUM HAWKES BAY 2000
 3. LEVELS IN TERMS OF THE NEW ZEALAND VERTICAL DATUM 2016
 4. ORIGIN OF LEVELS = IT IV SO1837 SOURCED FROM THE LINZ DIGITAL GEODETIC DATABASE.



A	SUBSTANTIVE APPLICATION	RH	06/2026
Rev	Description	By	Date
		By	Date
Survey	TECH SP		02/2025
Design	RH		06/2026
Drawn	RH		06/2026
Checked	BB		06/2026

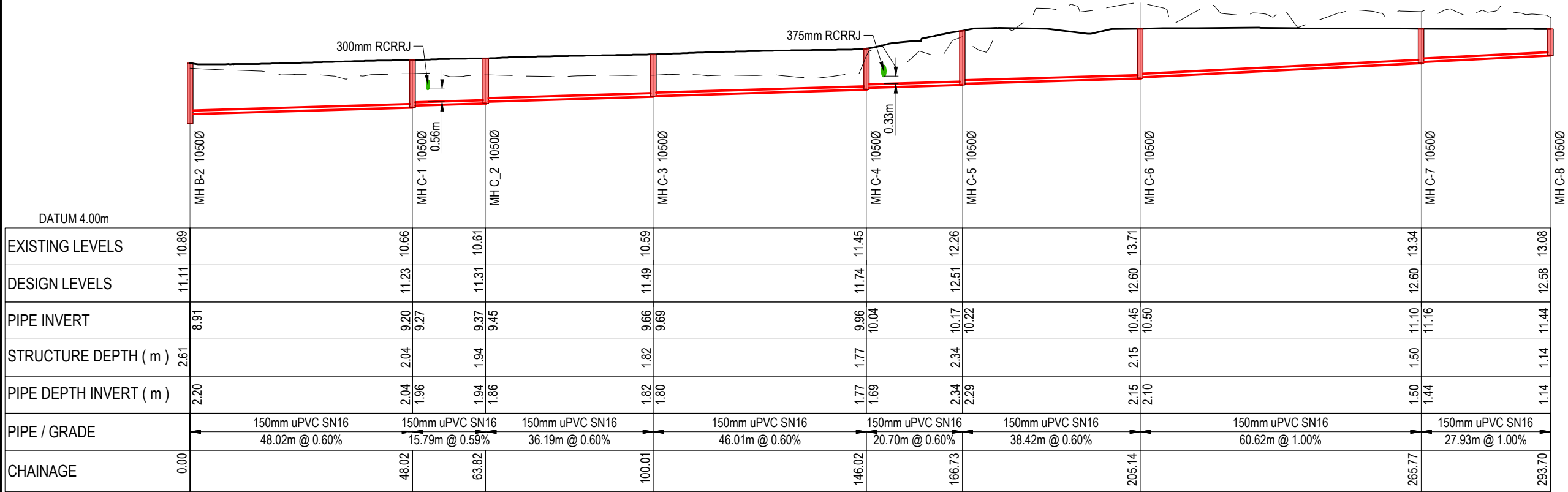


Project
**BROOKVALE GREEN
HAVELOCK NORTH
FOR
VERMONT STREET
PARTNERS NO. 4 LIMITED**

Title
**PROPOSED
WASTEWATER
LONG SECTION**

Project no.	135041
Scale	1:1 ORIG @ A3
Cad file	135041-C520 WW LS.DWG
Drawing no.	C520-3
Rev	A

DATE: 6/25/26 FILE PATH: F:\MAVEN\PROJECTS\135041 BROOKVALE\DWG\135041-C520\WLLS.DWG



PROPOSED WASTEWATER LONG SECTION LINE C
SCALE: HORI 1:1000 VERT 1:200

- NOTES
1. ALL WORKS TO BE IN ACCORDANCE WITH HASTINGS COUNCIL STANDARDS.
 2. COORDINATES IN TERMS OF NZ GEODETIC DATUM HAWKES BAY 2000
 3. LEVELS IN TERMS OF THE NEW ZEALAND VERTICAL DATUM 2016
 4. ORIGIN OF LEVELS = IT IV SO1837 SOURCED FROM THE LINZ DIGITAL GEODETIC DATABASE.

LEGEND

--- EX GROUND LEVEL
--- PR GROUND LEVEL
HARDFILL BACKFILL
LOT CONNECTION
CROSSING PIPE

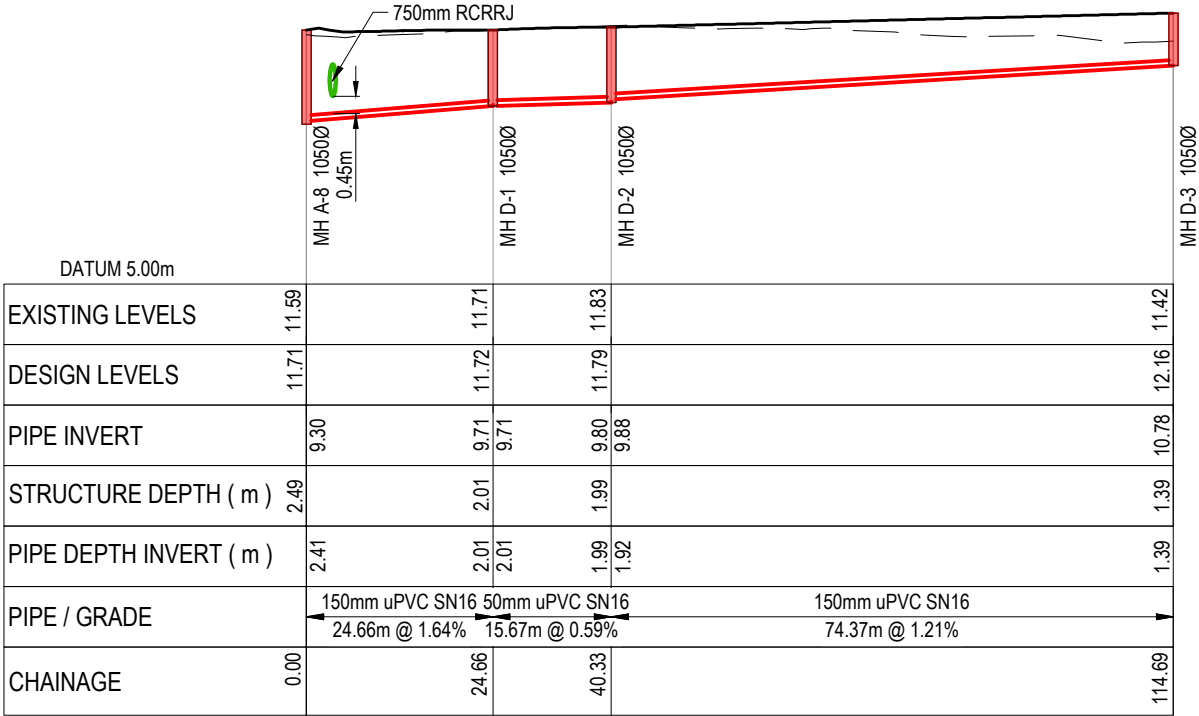
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Rev	Description	By	Date
	By	Date	
Survey	TECH SP	02/2025	
Design	RH	06/2026	
Drawn	RH	06/2026	
Checked	BB	06/2026	

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Auckland 1023

Project
**BROOKVALE GREEN
HAVELOCK NORTH
FOR
VERMONT STREET
PARTNERS NO. 4 LIMITED**

Title
**PROPOSED
WASTEWATER
LONG SECTION**

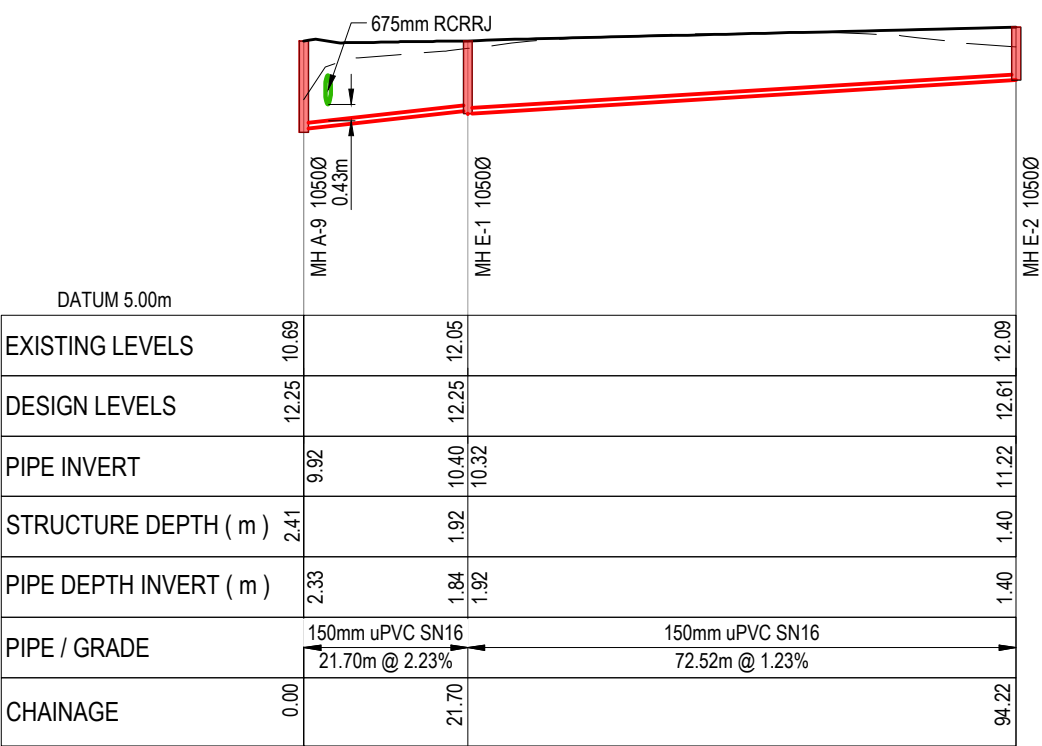
Project no.	135041		
Scale	1:1 ORIG @ A3		
Cad file	135041-C520 WW LS.DWG		
Drawing no.	C520-4	Rev	A



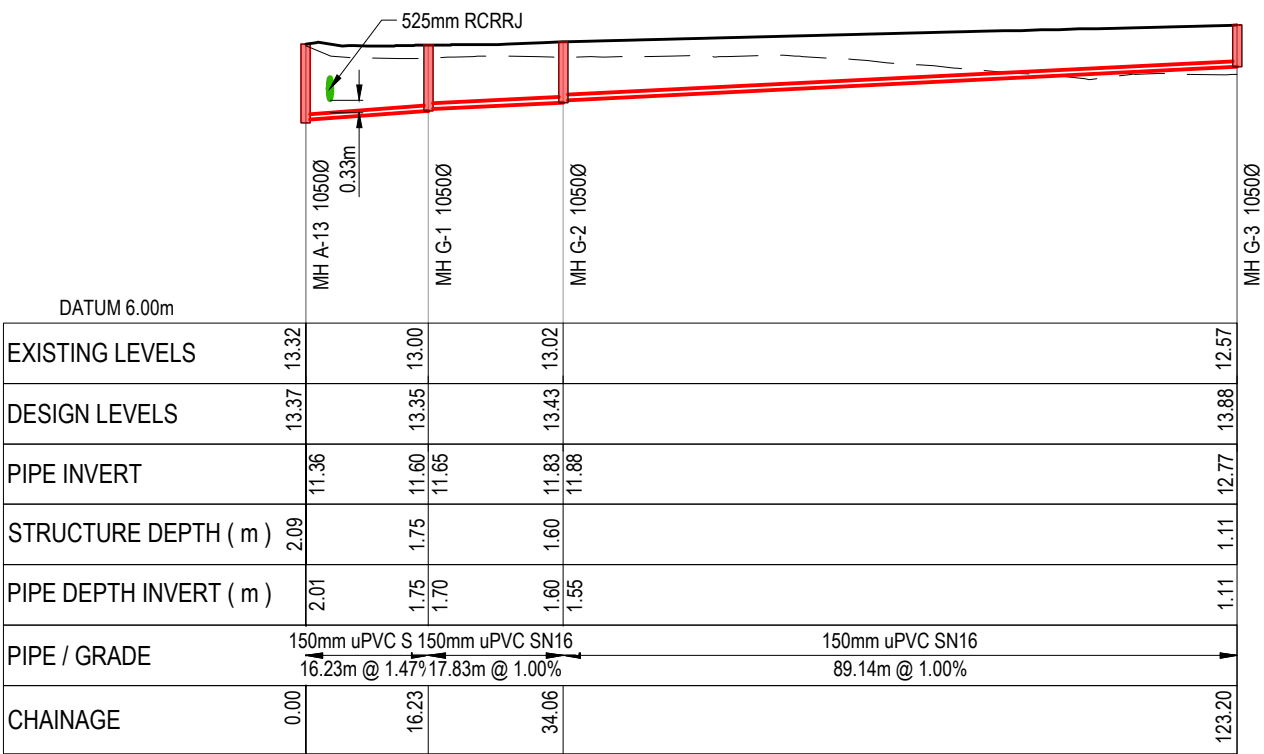
PROPOSED WASTEWATER LONG SECTION LINE D
SCALE: HORI 1:1000 VERT 1:200

RESOURCE CONSENT

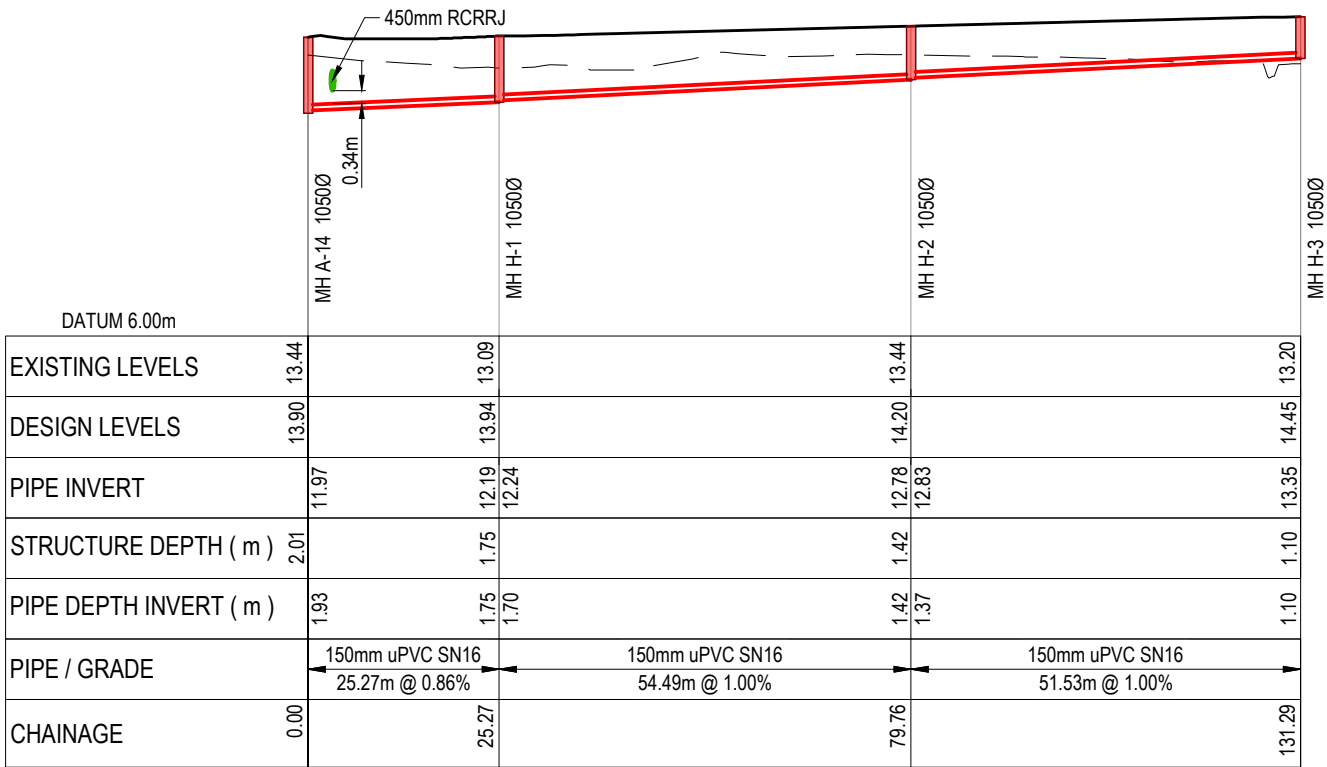
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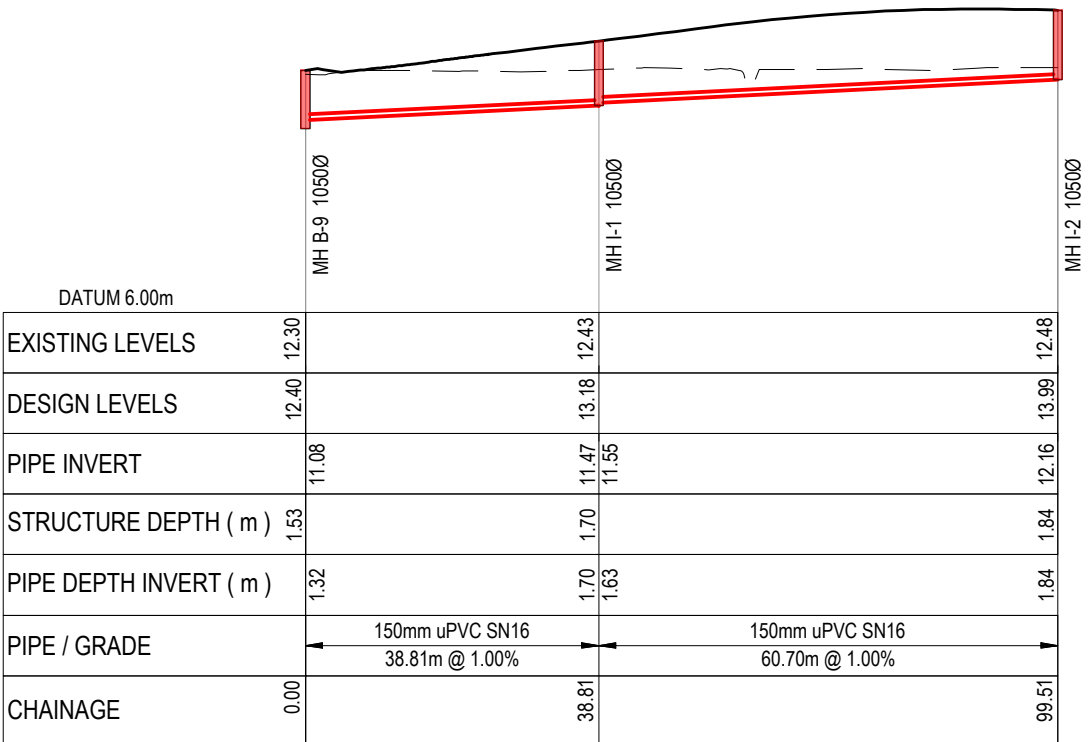
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SCALE: HORI 1:1000 VERT 1:200



PROPOSED WASTEWATER LONG SECTION LINE G
SCALE: HORI 1:1000 VERT 1:200

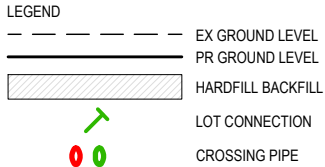


PROPOSED WASTEWATER LONG SECTION LINE H
SCALE: HORI 1:1000 VERT 1:200



PROPOSED WASTEWATER LONG SECTION LINE I
SCALE: HORI 1:1000 VERT 1:200

- NOTES
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A	SUBSTANTIVE APPLICATION	RH	06/2026
Rev	Description	By	Date
		By	Date
Survey	TECH SP		02/2025
Design	RH		06/2026
Drawn	RH		06/2026
Checked	BB		06/2026



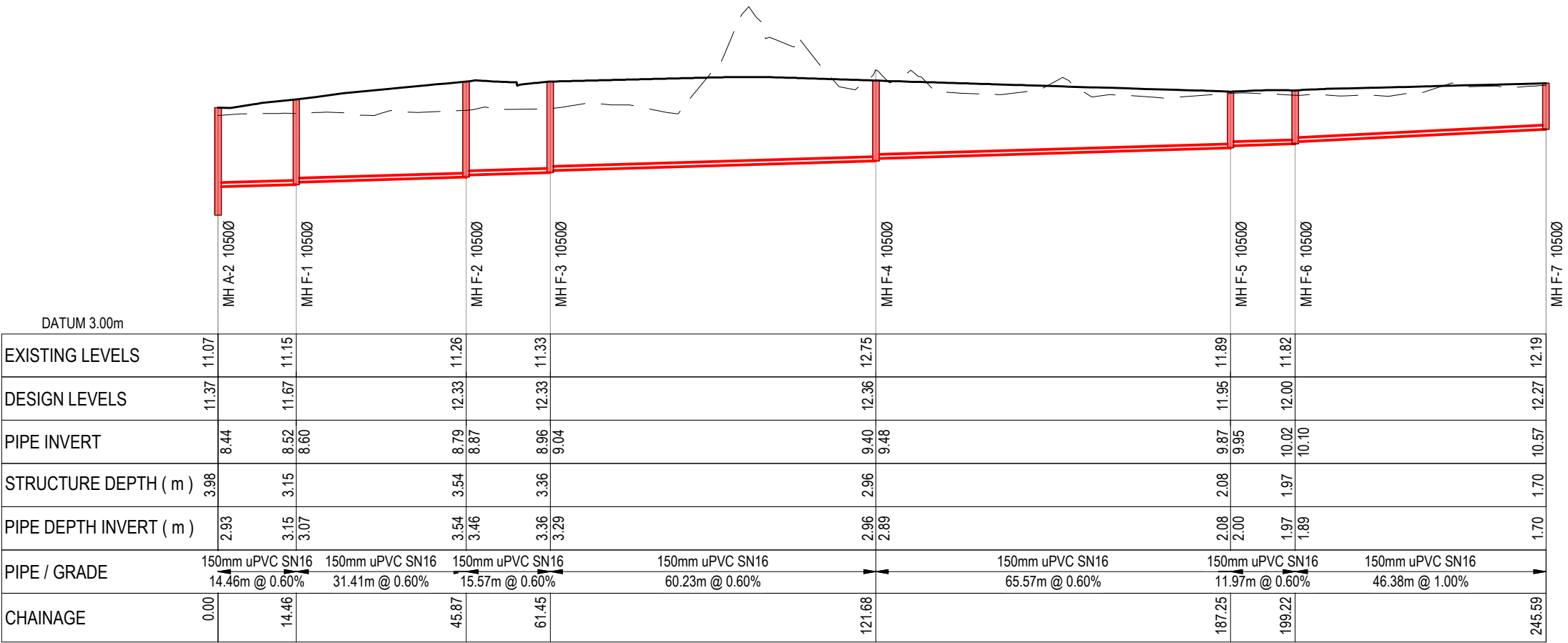
Project
**BROOKVALE GREEN
HAVELOCK NORTH
FOR
VERMONT STREET
PARTNERS NO. 4 LIMITED**

Title
**PROPOSED
WASTEWATER
LONG SECTION**

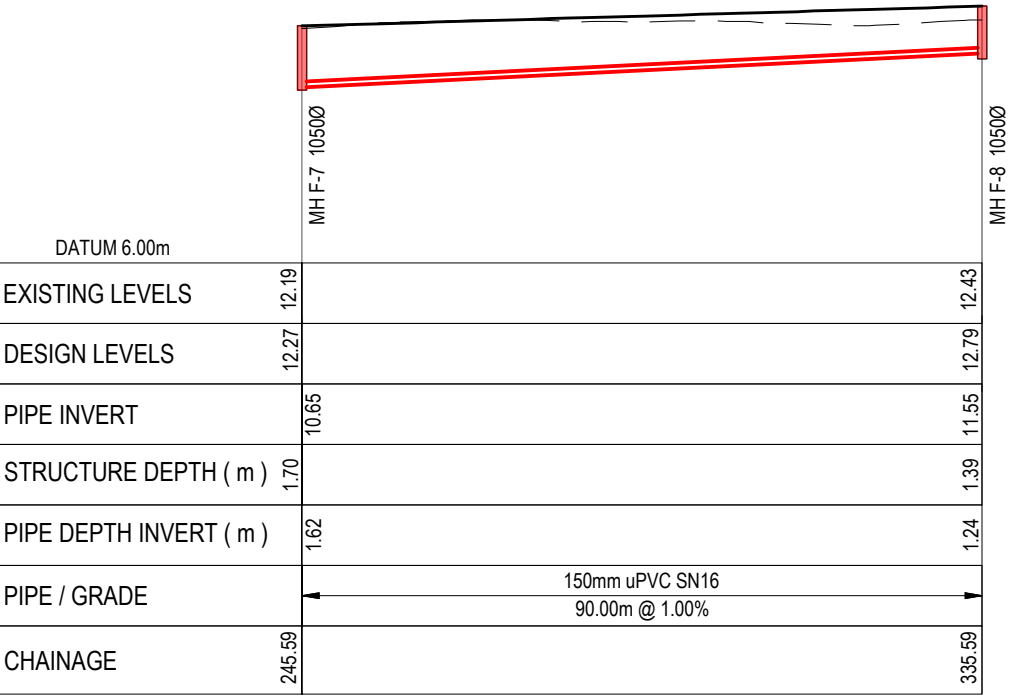
Project no.	135041
Scale	1:1 ORIG @ A3
Cad file	135041-C520 WW LS.DWG
Drawing no.	C520-5
Rev	A

RESOURCE CONSENT

DATE: 6/25/26 FILE PATH: F:\MAVEN\PROJECTS\135041-BROOKVALE\DWG\035041-C520\WLLS.DWG



PROPOSED WASTEWATER LONG SECTION LINE F
SCALE: HORI 1:1000 VERT 1:200



PROPOSED WASTEWATER LONG SECTION LINE F CONT.
SCALE: HORI 1:1000 VERT 1:200

RESOURCE CONSENT

- NOTES
1. ALL WORKS TO BE IN ACCORDANCE WITH HASTINGS COUNCIL STANDARDS.
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LEGEND

- EX GROUND LEVEL
- PR GROUND LEVEL
- HARDFILL BACKFILL
- LOT CONNECTION
- CROSSING PIPE

A	SUBSTANTIVE APPLICATION	RH	06/2026
Rev	Description	By	Date
	Survey	TECH SP	02/2025
	Design	RH	06/2026
	Drawn	RH	06/2026
	Checked	BB	06/2026

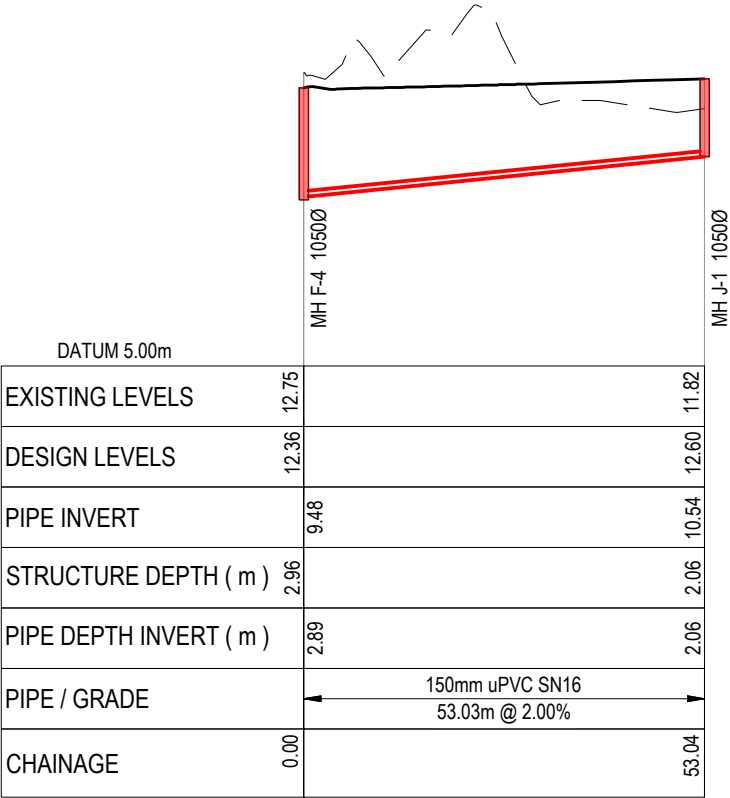
M **Maven Associates**
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Project
**BROOKVALE GREEN
HAVELOCK NORTH
FOR
VERMONT STREET
PARTNERS NO. 4 LIMITED**

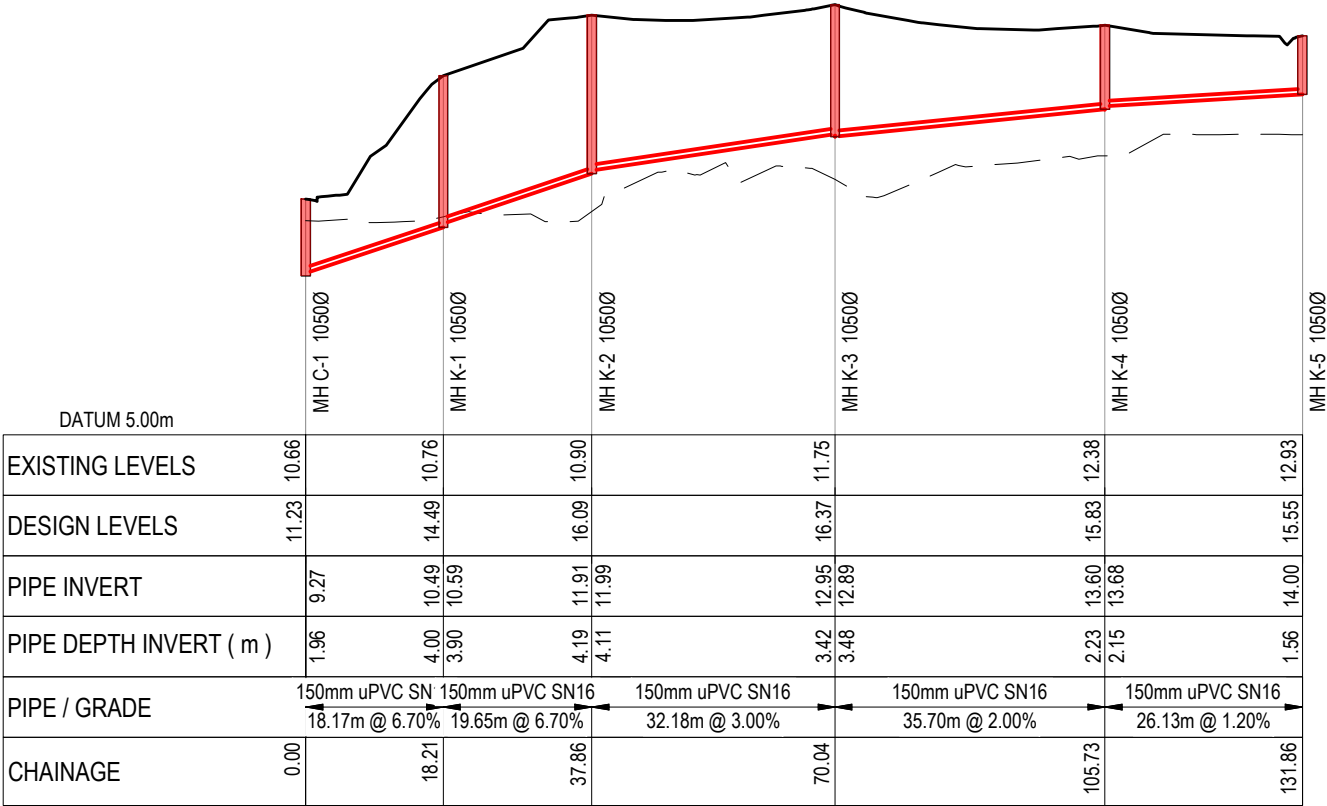
Title
**PROPOSED
WASTEWATER
LONG SECTION**

Project no.	135041		
Scale	1:1 ORIG @ A3		
Cad file	135041-C520 WW LS.DWG		
Drawing no.	C520-6	Rev	A

DATE: 6/25/26 FILEPATH: F:\MAVEN\PROJECTS\135041-BROOKVALE\DWG\035041-C520\WMLS.DWG



PROPOSED WASTEWATER LONG SECTION LINE J
SCALE: HORI 1:1000 VERT 1:200



PROPOSED WASTEWATER LONG SECTION LINE K
SCALE: HORI 1:1000 VERT 1:200

RESOURCE CONSENT

- NOTES
1. ALL WORKS TO BE IN ACCORDANCE WITH HASTINGS COUNCIL STANDARDS.
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LEGEND

- EX GROUND LEVEL
- PR GROUND LEVEL
- HARDFILL BACKFILL
- LOT CONNECTION
- CROSSING PIPE

A	SUBSTANTIVE APPLICATION	RH	06/2026
Rev	Description	By	Date
		By	Date
Survey	TECH SP		02/2025
Design	RH		06/2026
Drawn	RH		06/2026
Checked	BB		06/2026

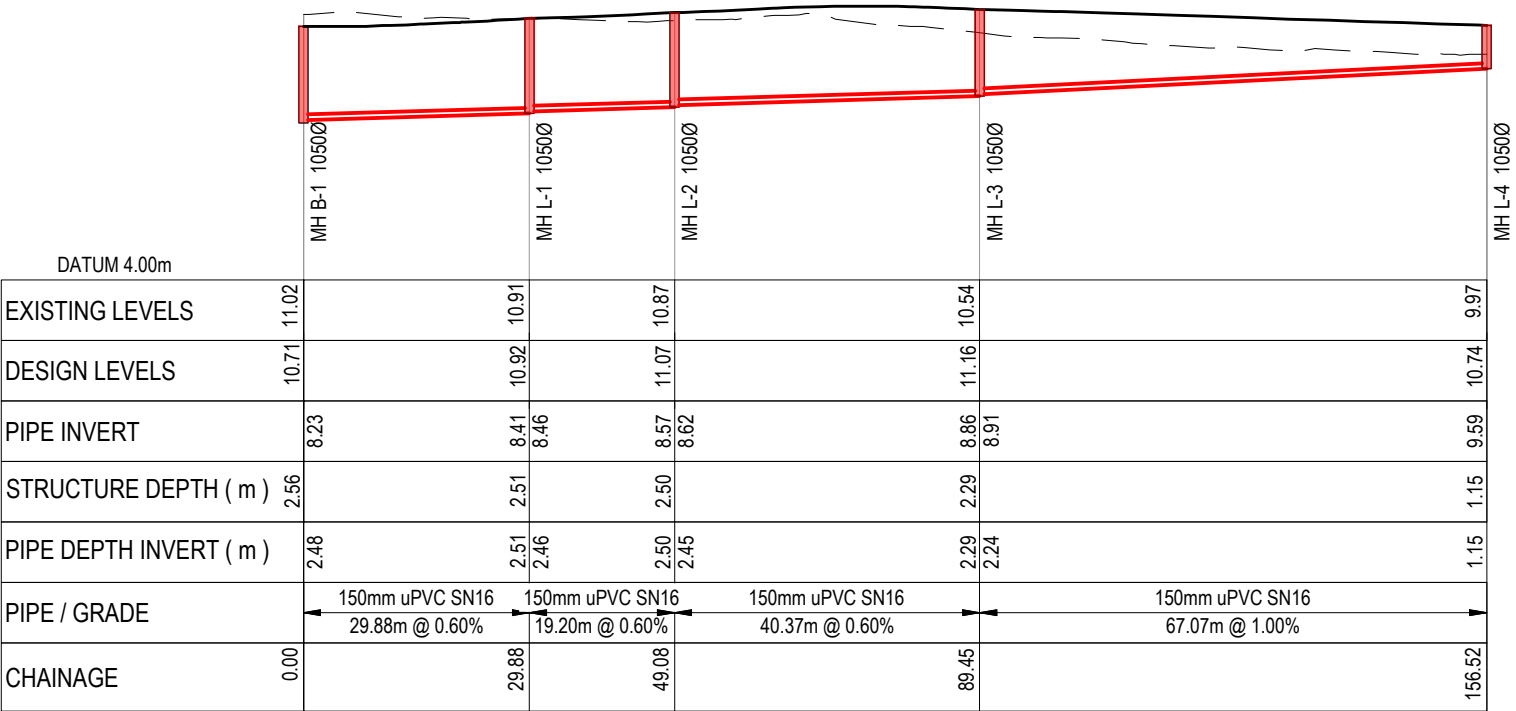
M **Maven Associates**
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Project
**BROOKVALE GREEN
HAVELOCK NORTH
FOR
VERMONT STREET
PARTNERS NO. 4 LIMITED**

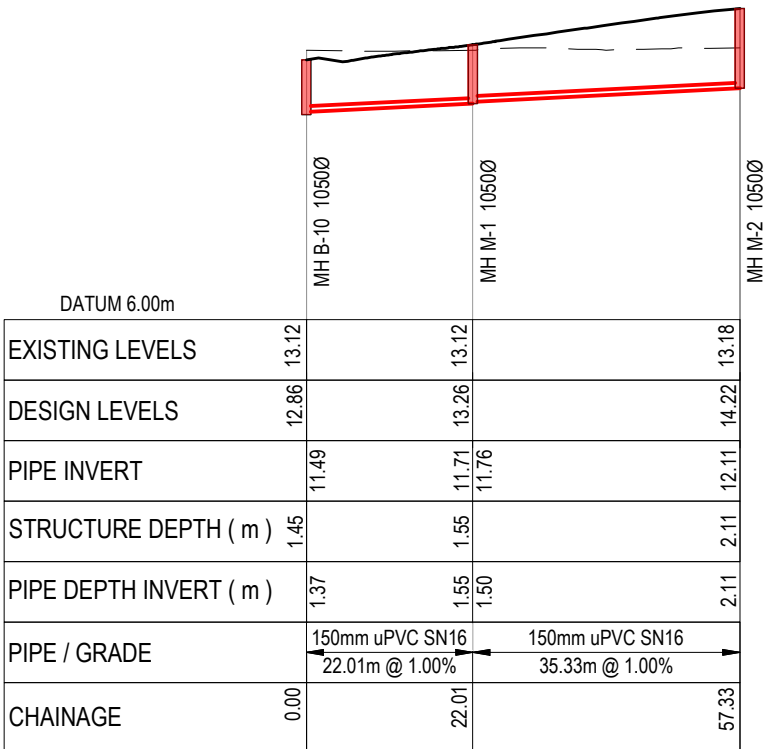
Title
**PROPOSED
WASTEWATER
LONG SECTION**

Project no.	135041		
Scale	1:1 ORIG @ A3		
Cad file	135041-C520 WW LS.DWG		
Drawing no.	C520-7	Rev	A

DATE: 6/25/26 FILE PATH: F:\MAVEN\PROJECTS\135041 BROOKVALE\DWG\135041-C520\WMLS.DWG



PROPOSED WASTEWATER LONG SECTION LINE L
SCALE: HORI 1:1000 VERT 1:200



PROPOSED WASTEWATER LONG SECTION LINE M
SCALE: HORI 1:1000 VERT 1:200

RESOURCE CONSENT

- NOTES
1. ALL WORKS TO BE IN ACCORDANCE WITH HASTINGS COUNCIL STANDARDS.
 2. COORDINATES IN TERMS OF NZ GEODETIC DATUM HAWKES BAY 2000
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LEGEND

- EX GROUND LEVEL
- PR GROUND LEVEL
- HARDFILL BACKFILL
- LOT CONNECTION
- CROSSING PIPE

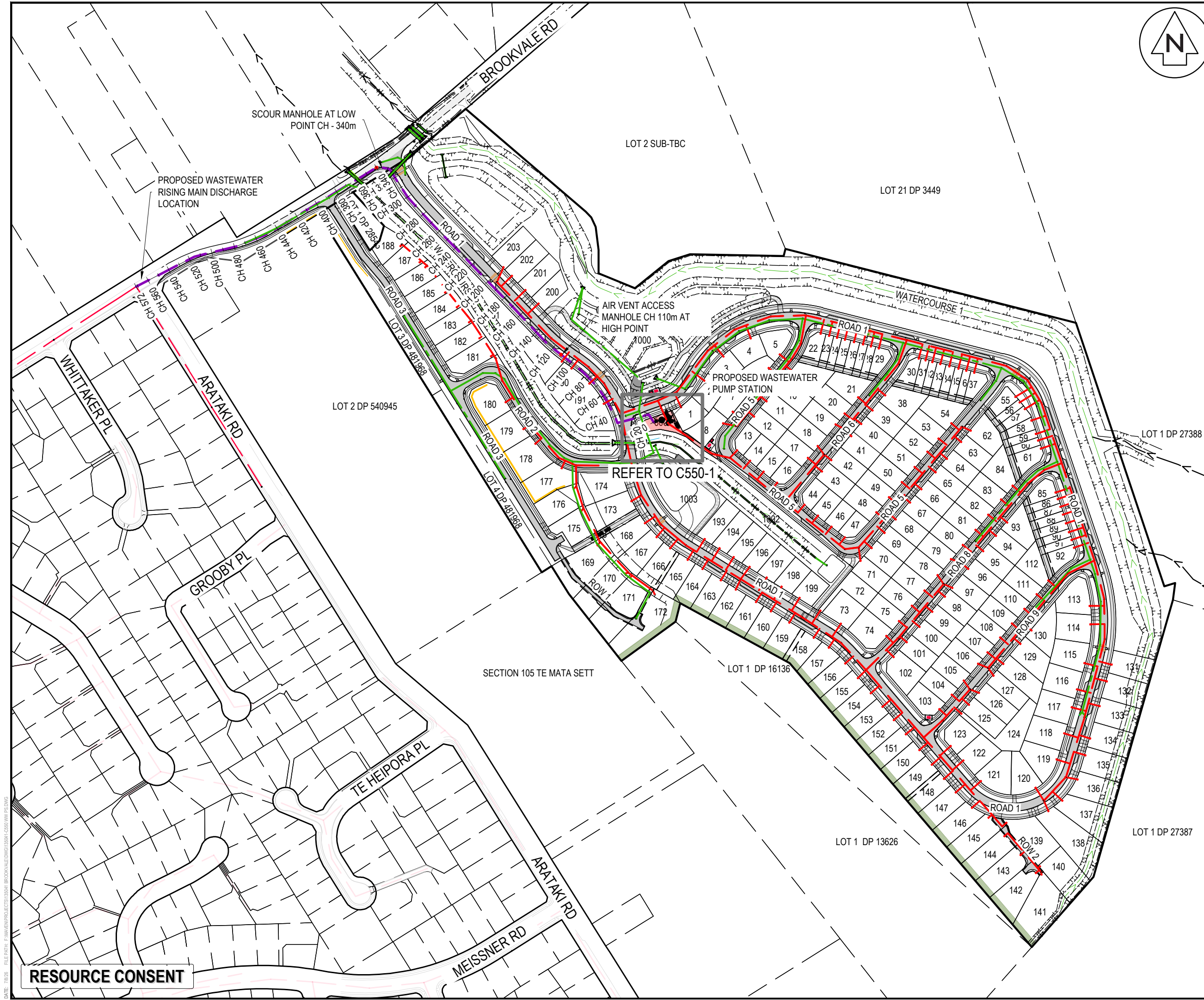
A	SUBSTANTIVE APPLICATION	RH	06/2026
Rev	Description	By	Date
	By	Date	
Survey	TECH SP	02/2025	
Design	RH	06/2026	
Drawn	RH	06/2026	
Checked	BB	06/2026	

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Project
**BROOKVALE GREEN
HAVELOCK NORTH
FOR
VERMONT STREET
PARTNERS NO. 4 LIMITED**

Title
**PROPOSED
WASTEWATER
LONG SECTION**

Project no.	135041		
Scale	1:1 ORIG @ A3		
Cad file	135041-C520 WW LS.DWG		
Drawing no.	C520-8	Rev	A



- NOTES
1. ALL WORKS TO BE IN ACCORDANCE WITH HASTINGS COUNCIL STANDARDS.
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 5. EACH CONNECTION SHALL BE MARKED BY A 50MMX50MM TREATED PINE STAKE EXTENDING 600MM ABOVE GROUND LEVEL WITH THE TOP PAINTED. THIS MARKER POST SHALL BE PLACED ALONGSIDE A TIMBER MARKER INSTALLED AT THE TIME OF PIPELAYING AND EXTENDING FROM THE CONNECTION TO 150MM BELOW FINISHED GROUND LEVEL. CONNECTIONS SHALL BE ACCURATELY INDICATED ON "AS BUILT" PLANS.
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 12. ALL LINES TO BE ABANDONED SHALL BE SEALED AT EACH END. TIMING OF ALL SEALING TO BE COORDINATED WITH COUNCIL STAFF.

LEGEND

	EX BDY
	PROP BDY
	EX WASTEWATER
	PROP WASTEWATER
	PR PRIVATE WW
	EX/PROP WWMH
	PR WW LOT CON
	PR WW RISING MAIN
	PR PUBLIC SW
	PR DETENTION BASIN
	PR WW PUMP STATION

A	SUBSTANTIVE APPLICATION	BB	06/2026
Rev	Description	By	Date
		By	Date
Survey	TECH SP		02/2025
Design	BB		02/2025
Drawn	SS		06/2025
Checked	BB		07/2026



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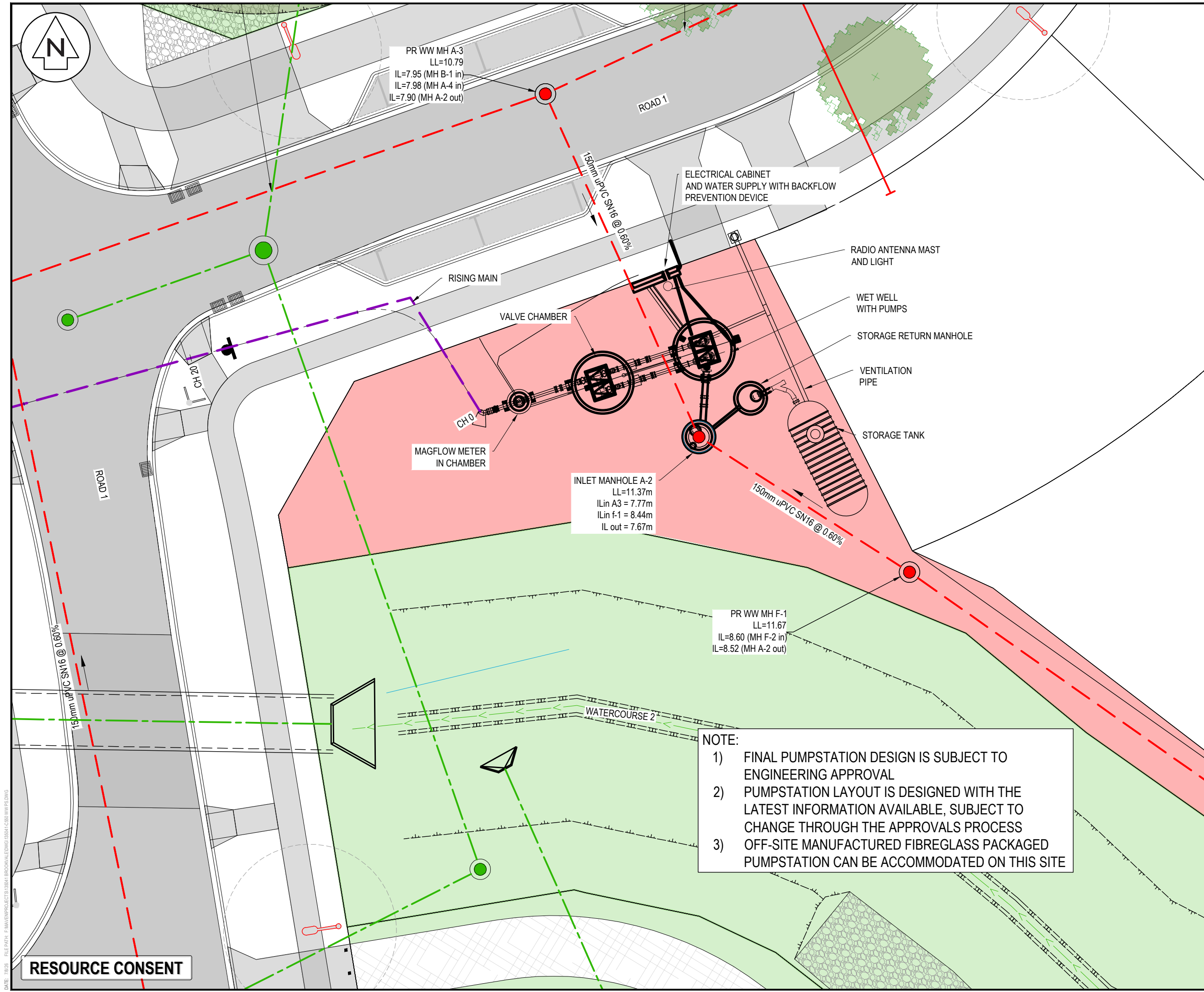
Project
**BROOKVALE GREEN
HAVELOCK NORTH
FOR
VERMONT STREET
PARTNERS NO. 4 LIMITED**

Title
**PROPOSED
WASTEWATER PUMP
STATION LOCATION**

Project no.	135041
Scale	1:3000 @ A3
Cad file	135041-C550 WW PS.DWG
Drawing no.	C550-0
Rev	A

RESOURCE CONSENT

DATE: 7/2025 FILEPATH: F:\Maven\PROJECTS\135041 BROOKVALE\DWG\135041-C550 WW PS.DWG



- NOTES
1. ALL WORKS TO BE IN ACCORDANCE WITH HASTINGS COUNCIL STANDARDS.
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 6. APPROVED HARDFILL IS TO BE USED IN BACKFILLING OF ALL ROAD CROSSINGS AND VEHICLE CROSSINGS TO COUNCIL STANDARDS.
 7. HEAVY DUTY MANHOLE LIDS AND FRAMES TO BE USED IN TRAFFICKED AREAS. ALL MANHOLES SHALL HAVE STAINLESS GRATES INSTALLED.
 8. ALL MANHOLES ARE TO BE 1050MMØ PRE CAST CONCRETE UNLESS SHOWN OTHERWISE.
 9. ALL LINES ARE TO BE MIN. 150MMØ PVC CLASS SN16 UNLESS SHOWN OTHERWISE.
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 12. ALL LINES TO BE ABANDONED SHALL BE SEALED AT EACH END. TIMING OF ALL SEALING TO BE COORDINATED WITH COUNCIL STAFF.

LEGEND

	EX BDY
	PROP BDY
	EX WASTEWATER
	PROP WASTEWATER
	EX/PROP WWMH
	PR WW RISING MAIN
	PR WW PUMP STATION

A	SUBSTANTIVE APPLICATION	BB	06/2026
Rev	Description	By	Date
Survey	TECH SP		02/2025
Design	BB		02/2025
Drawn	SS		06/2025
Checked	BB		07/2026



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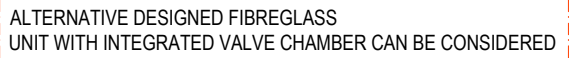
Project
**BROOKVALE GREEN
HAVELOCK NORTH
FOR
VERMONT STREET
PARTNERS NO. 4 LIMITED**

Title
**PROPOSED
WASTEWATER PUMP
STATION LAYOUT**

Project no.	135041
Scale	1:200 @ A3
Cad file	135041-C550 WW PS.DWG
Drawing no.	C550-1
Rev	A

- NOTE:
- 1) FINAL PUMPSTATION DESIGN IS SUBJECT TO ENGINEERING APPROVAL
 - 2) PUMPSTATION LAYOUT IS DESIGNED WITH THE LATEST INFORMATION AVAILABLE, SUBJECT TO CHANGE THROUGH THE APPROVALS PROCESS
 - 3) OFF-SITE MANUFACTURED FIBREGLASS PACKAGED PUMPSTATION CAN BE ACCOMMODATED ON THIS SITE

RESOURCE CONSENT



NOTE:

- 1) OFF-SITE MANUFACTURED FIBREGLASS PACKAGED PUMPSTATION UNIT CAN BE USED.
- 2) THE DESIGN DETAILS ON THIS PLAN IS SUBJECT TO THE ENGINEERING APPROVALS PROCESS
- 3) ALL DIMENSIONS, MATERIALS AND LEVELS ARE SUBJECT TO FINAL DESIGN AND APPROVAL BEFORE CONSTRUCTION.

NO	DN (mm)	DESCRIPTION	NO	17	200	DICL F/S SPOOL WITH PUDDLE FLANGE(CONFIRM LENGTH ON SITE)	2
1	-	SUBMERSIBLE PUMP (TBC) (DUTY/ STANDBY)	2	18	300	DICL F/F SPOOL WITH PUDDLE FLANGE	1
2	-	PUMP LIFTING CHAIN	2	19	300	DICL FLANGE ADAPTOR	1
3	150	PUMP FLANGED DISCHARGE BEND	2	20	200	FLANGED ELECTROMAGNETIC FLOWMETER PN16	1
4	150-200	DICL FLANGED ENLARGER	2	21	212	250 OD PE STUB FLANGE & STAINLESS STEEL BACKING RING	1
5	200	DICL PIPE FLANGED F/F	2	22	-	CAMLOCK COUPLING	1
6	200	DICL FLANGED 90° BEND	2	23	300	DI GIBAULT	2
7	200	DICL F/F SPOOL WITH PUDDLE FLANGE	4	24	50	80 PVC-u SN16 STILLING TUBE	1
8	200	DI FLANGE ADAPTER	4	25	-	316SS STILLING TUBE BRACKET TO CONTRACTOR DESIGN	5
9	200	DI GIBAULT	6	26	300	PVC-u SN16 S/S SHORT PIECE(COS)	1
10	200	DICL PIPE S/S (CONFIRM LENGTH ON SITE)	3	27	-	WATERPILOT FMX21 (316SS HOUSING)	1
11	200	FLANGED BALL CHECK VALVE	2	35	300	LUGGED KNIFEGATE VALVE WITH EXTENSION SPINDLE (LENGTH TO SUIT)	1
12	200	FLANGED SLUICE VALVE	4	36	-	S/S SPINDLE SUPPORT AT MIN 1.5m SPACING TO CONTRACTOR DESIGN	3
13	200	DICL FLANGED EQUAL TEE	3	37	200	DISMANTLING JOINT (NON THRUST)	1
14	200-100	DICL FLANGED UNEQUAL TEE	1	38	50	FLANGED SLUICE VALVE	1
15	50	VENT-O-MAT AIR VALVE	1	39	100-50	DICL F/F 100-50 REDUCER	1
16	300	STAINLESS STEEL FABRICATED BAFFLE STRUCTURE FOR INLET SEWER (COS)	1	40	200	THRUST RESTRAINT DISMANTLING JOINT	4

- NOTES**
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A	SUBSTANTIVE APPLICATION	BB	06/2026
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	By	Date	
Survey	TECH SP	02/2025	
Design	BB	02/2025	
Drawn	SS	06/2025	
Checked	BB	07/2026	



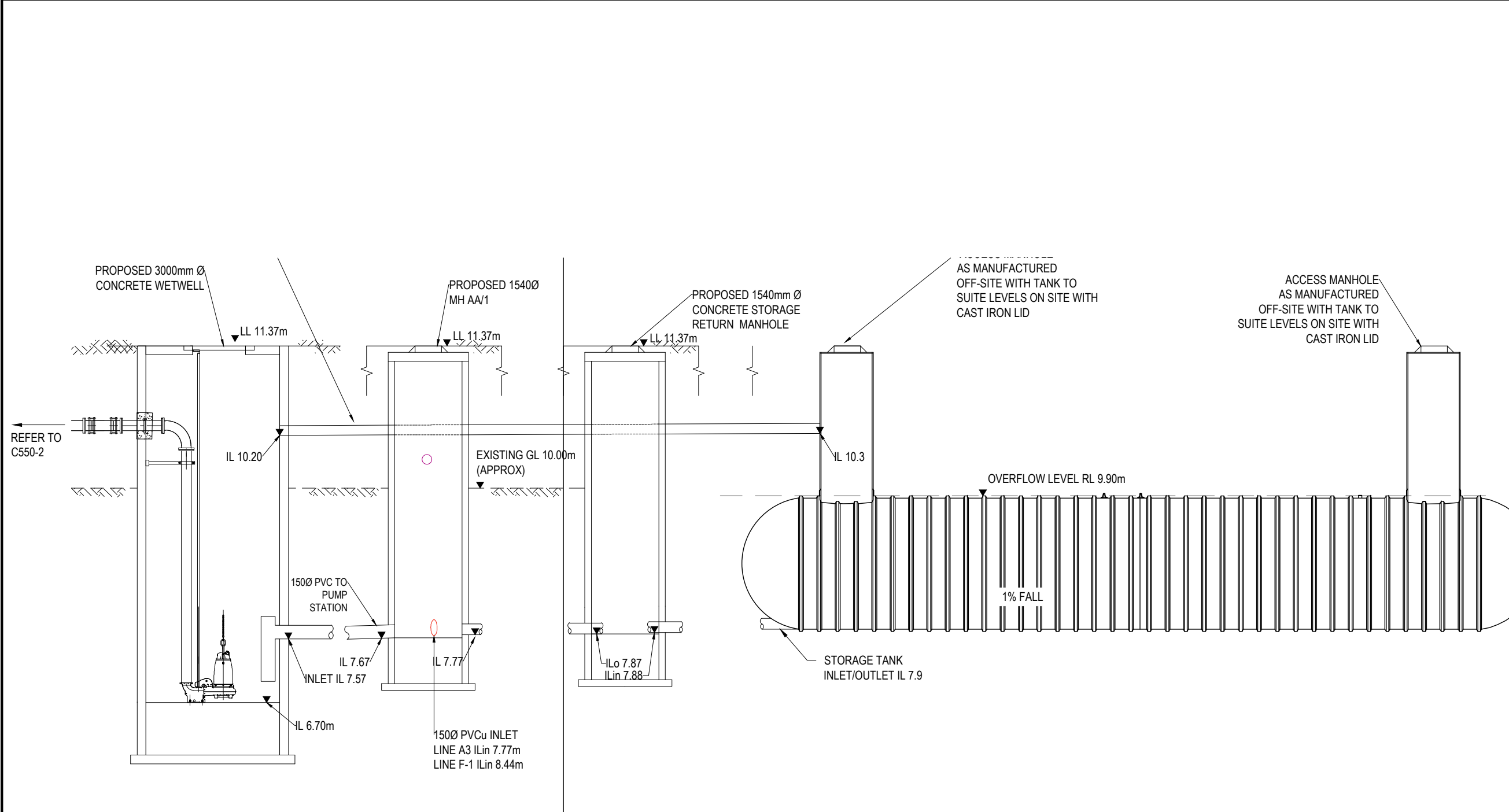
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Project
**BROOKVALE GREEN
HAVELOCK NORTH
FOR
VERMONT STREET
PARTNERS NO. 4 LIMITED**

Title

**PROPOSED
WASTEWATER PUMP
STATION ELEVATION**

Project no.	135041		
Scale			
Cad file	135041-C550 WW PS.DWG		
Drawing no.	C550-2	Rev	A



GENERAL ELEVATION STORAGE

- NOTES
1. ALL WORKS TO BE IN ACCORDANCE WITH HASTINGS COUNCIL STANDARDS.
 2. COORDINATES IN TERMS OF NZ GEODETIC DATUM HAWKES BAY 2000. LEVELS IN TERMS OF THE NEW ZEALAND VERTICAL DATUM 2016.
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 4. PIPE BEDDING: 0 - 10% GRANULAR BEDDING, 10 - 20% WEAK CONCRETE BEDDING, GREATER THAN 20% WEAK CONCRETE BEDDING (7MPA PLUS ANTI SCOUR BLOCKS AT 6M CRS).
 5. EACH CONNECTION SHALL BE MARKED BY A 50MMX50MM TREATED PINE STAKE EXTENDING 600MM ABOVE GROUND LEVEL WITH THE TOP PAINTED. THIS MARKER POST SHALL BE PLACED ALONGSIDE A TIMBER MARKER INSTALLED AT THE TIME OF PIPELAYING AND EXTENDING FROM THE CONNECTION TO 150MM BELOW FINISHED GROUND LEVEL. CONNECTIONS SHALL BE ACCURATELY INDICATED ON "AS BUILT" PLANS.
 6. APPROVED HARDFILL IS TO BE USED IN BACKFILLING OF ALL ROAD CROSSINGS AND VEHICLE CROSSINGS TO COUNCIL STANDARDS.
 7. HEAVY DUTY MANHOLE LIDS AND FRAMES TO BE USED IN TRAFFICKED AREAS. ALL MANHOLES SHALL HAVE STAINLESS GRATES INSTALLED.
 8. ALL MANHOLES ARE TO BE 1050MMØ PRE CAST CONCRETE UNLESS SHOWN OTHERWISE.
 9. ALL LINES ARE TO BE MIN. 150MMØ PVC CLASS SN16 UNLESS SHOWN OTHERWISE.
 10. ALL LOT CONNECTION TO BE MIN. 100mmØ PVC CLASS SN16 UNLESS SHOWN OTHERWISE.
 11. 150MMØ PIPES THAT DO NOT TERMINATE IN A MANHOLE MUST BE TERMINATED WITH A 100MMØ ON A 150MMØ LUNDEN JUNCTION AND BLANK CAP.
 12. ALL LINES TO BE ABANDONED SHALL BE SEALED AT EACH END. TIMING OF ALL SEALING TO BE COORDINATED WITH COUNCIL STAFF.

A	SUBSTANTIVE APPLICATION	BB	06/2026
Rev	Description	By	Date
		By	Date
Survey	TECH SP		02/2025
Design	BB		02/2025
Drawn	SS		06/2025
Checked	BB		07/2026

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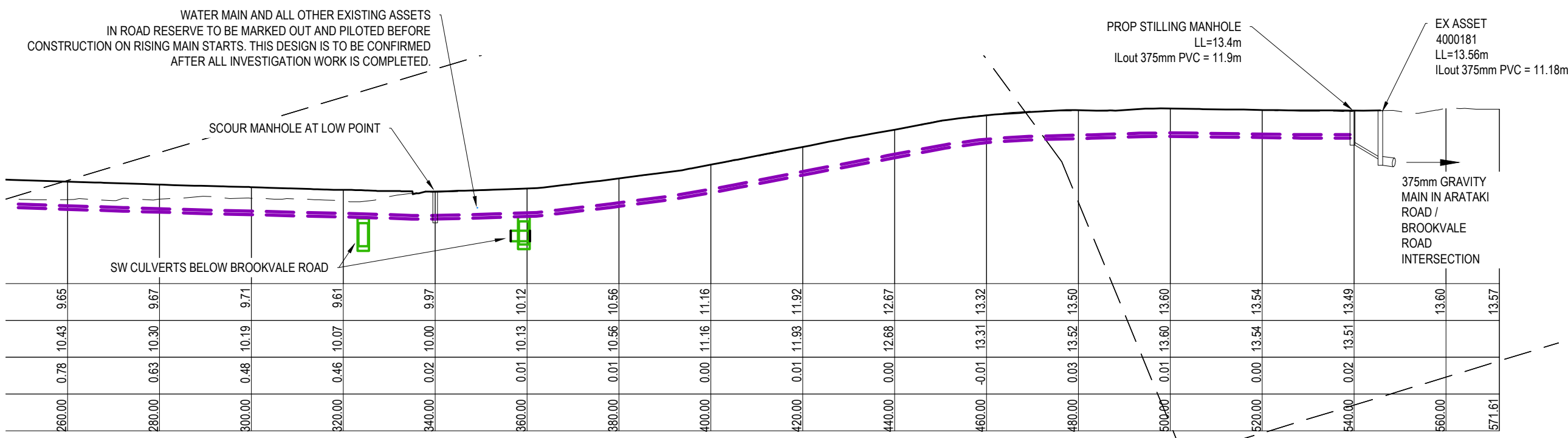
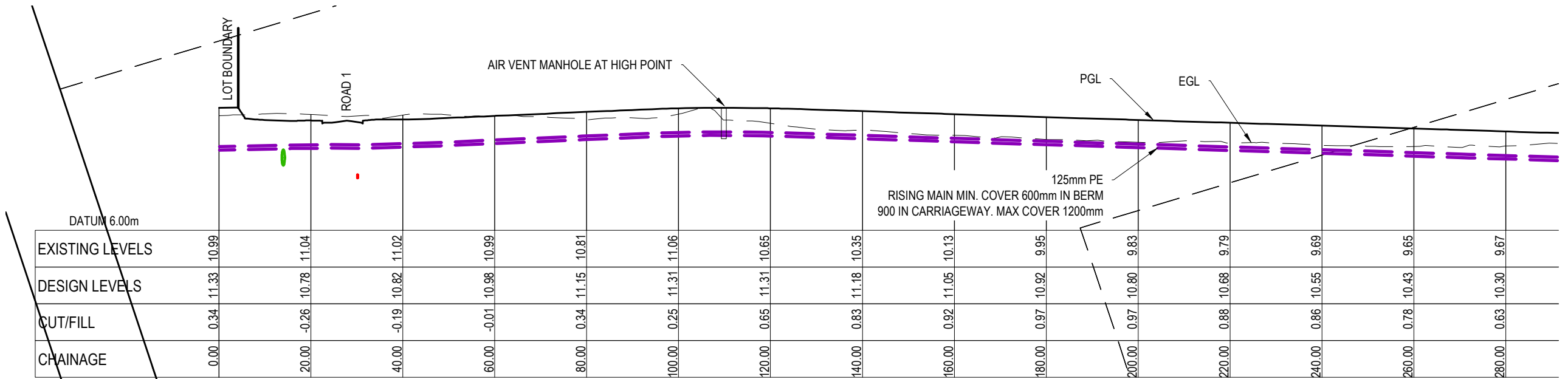
Project
**BROOKVALE GREEN
HAVELOCK NORTH
FOR
VERMONT STREET
PARTNERS NO. 4 LIMITED**

Title
**PROPOSED
WW PS STORAGE
ELEVATION**

Project no.	135041		
Scale			
Cad file	135041-C550 WW PS.DWG		
Drawing no.	C550-3	Rev	A

RESOURCE CONSENT

DATE: 7/20/25 FILE PATH: F:\MAVEN\PROJECTS\135041 BROOKVALE\DWG\135041-C550 WWPS.DWG



135041-C550 WWPS

RISING MAIN LONG SECTION

- NOTES
1. ALL WORKS TO BE IN ACCORDANCE WITH HASTINGS COUNCIL STANDARDS.
 2. COORDINATES IN TERMS OF NZ GEODETIC DATUM HAWKES BAY 2000. LEVELS IN TERMS OF THE NEW ZEALAND VERTICAL DATUM 2016.
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A	SUBSTANTIVE APPLICATION	BB	06/2026
Rev	Description	By	Date
	By	Date	
Survey	TECH SP	02/2025	
Design	BB	02/2025	
Drawn	SS	06/2025	
Checked	BB	07/2026	

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Project

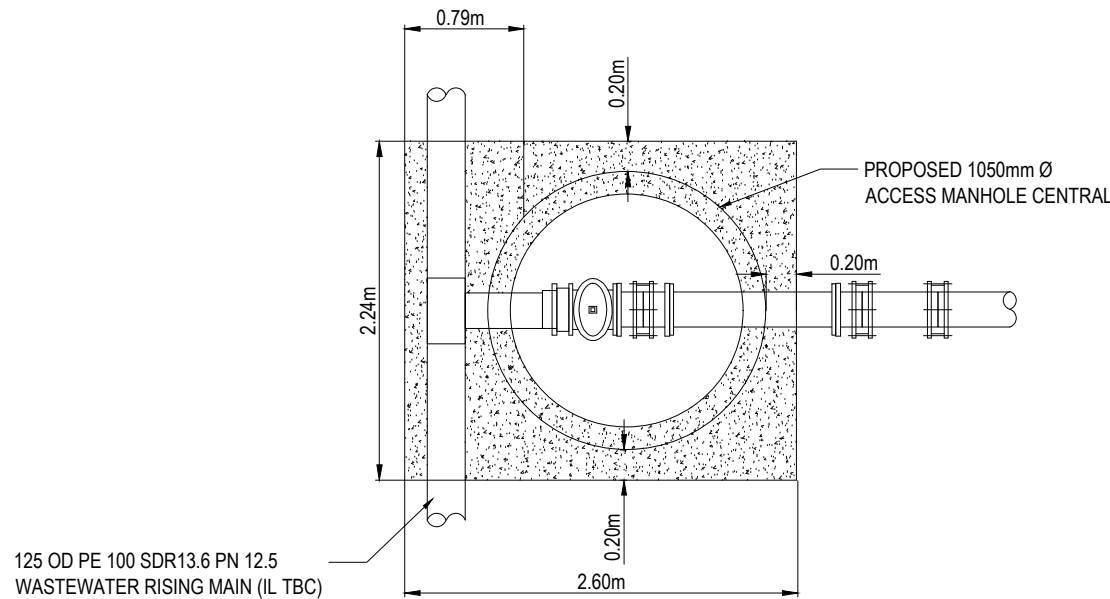
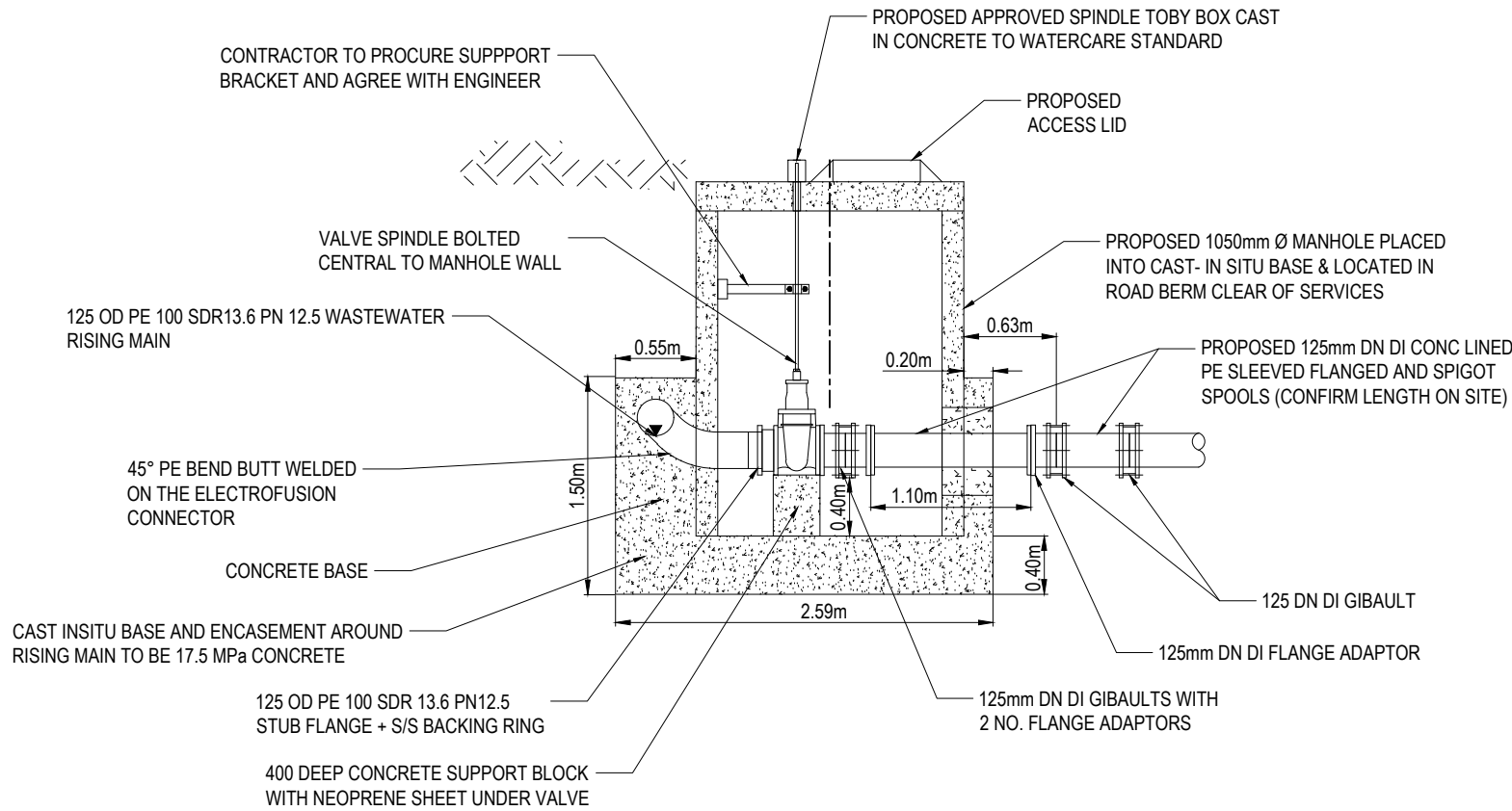
**BROOKVALE GREEN
HAVELOCK NORTH
FOR
VERMONT STREET
PARTNERS NO. 4 LIMITED**

Title

**PROPOSED
WW PS RISING MAIN
LONG SECTION**

Project no.	135041
Scale	
Cad file	135041-C550 WW PS.DWG
Drawing no.	C550-4
Rev	A

RESOURCE CONSENT



RISING MAIN SCOUR VALVE DETAIL

- NOTES
- ALL WORKS TO BE IN ACCORDANCE WITH HASTINGS COUNCIL STANDARDS.
 - COORDINATES IN TERMS OF NZ GEODETIC DATUM HAWKES BAY 2000. LEVELS IN TERMS OF THE NEW ZEALAND VERTICAL DATUM 2016.
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Rev	Description	By	Date
		By	Date
Survey	TECH SP		02/2025
Design	BB		02/2025
Drawn	SS		06/2025
Checked	BB		07/2026

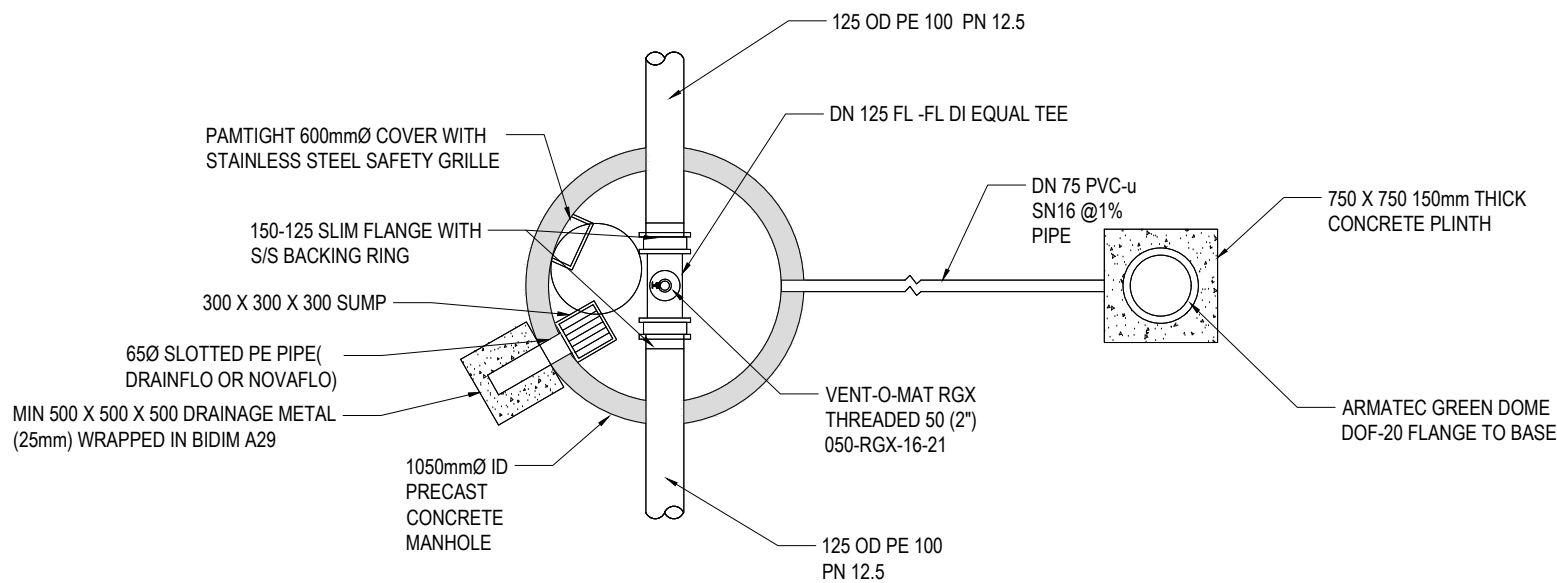
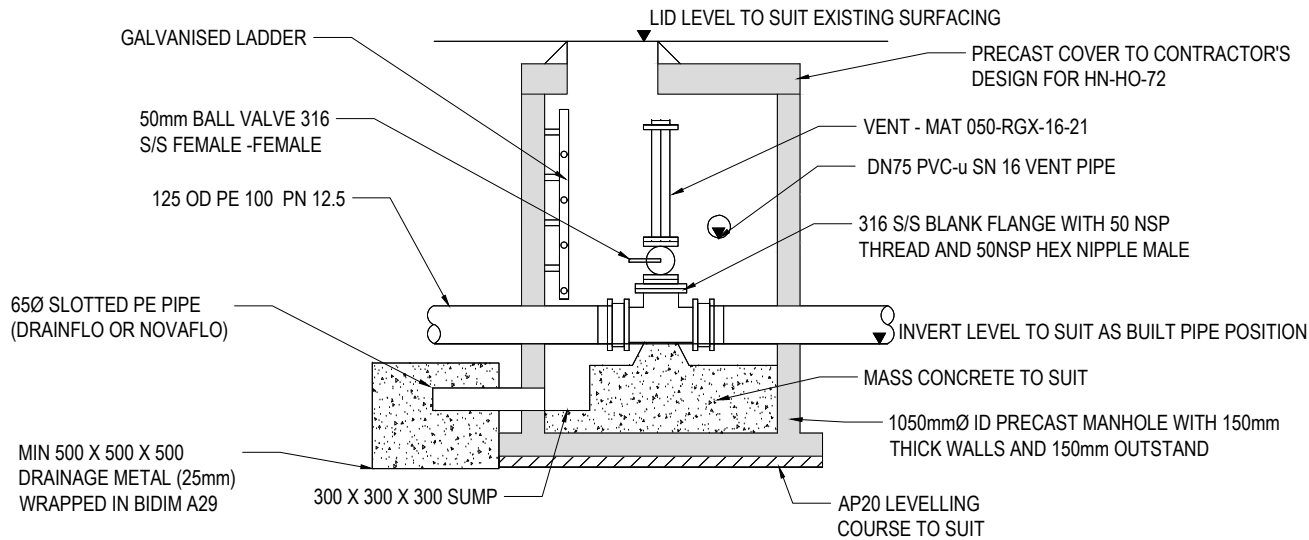


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 Auckland 1023

Project
**BROOKVALE GREEN
 HAVELOCK NORTH
 FOR
 VERMONT STREET
 PARTNERS NO. 4 LIMITED**

Title
**PROPOSED
 WW RISING MAIN
 SCOUR VALVE DETAILS**

Project no.	135041
Scale	
Cad file	135041-C550 WW PS.DWG
Drawing no.	C550-5
Rev	A



AIR VENT VALVE DETAIL

- NOTES
1. ALL WORKS TO BE IN ACCORDANCE WITH HASTINGS COUNCIL STANDARDS.
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Rev	Description	By	Date
		By	Date
Survey	TECH SP		02/2025
Design	BB		02/2025
Drawn	SS		06/2025
Checked	BB		07/2026

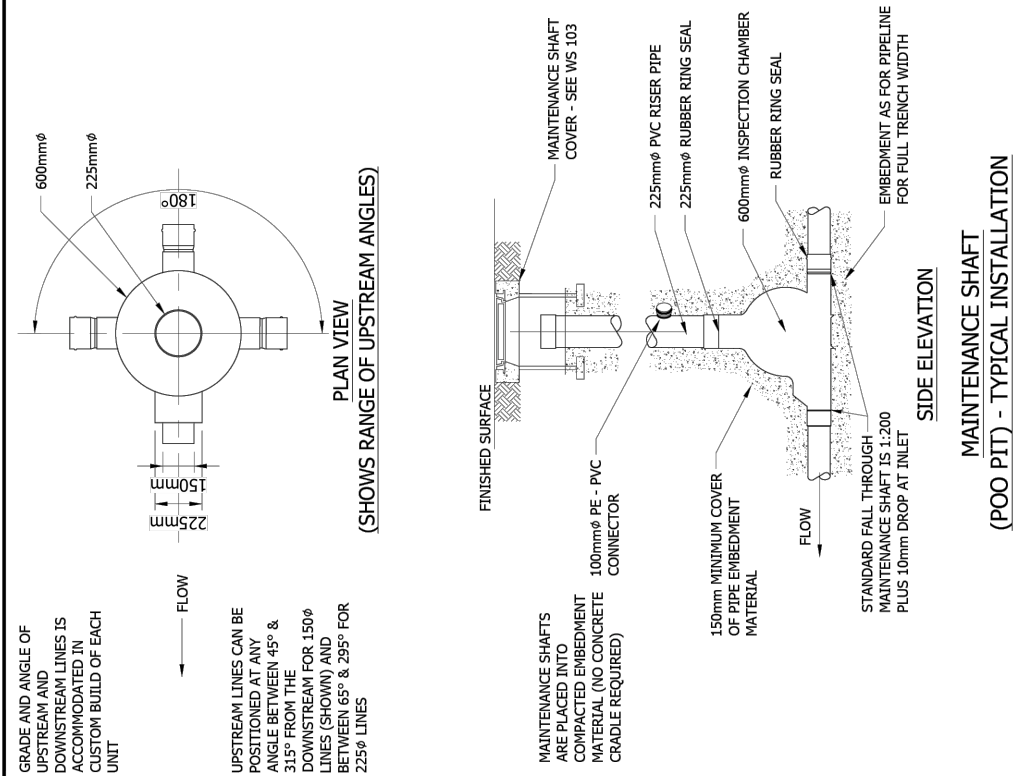


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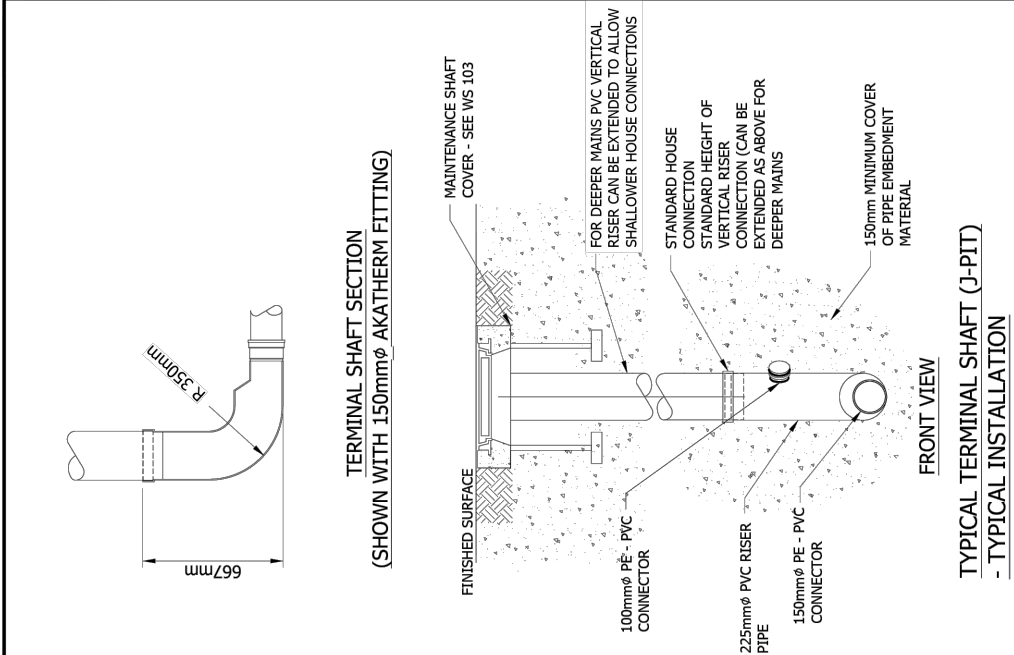
Project
**BROOKVALE GREEN
HAVELOCK NORTH
FOR
VERMONT STREET
PARTNERS NO. 4 LIMITED**

Title
**PROPOSED
WW RISING MAIN AIR
VALVE DETAILS**

Project no.	135041		
Scale			
Cad file	135041-C550 WW PS.DWG		
Drawing no.	C550-6	Rev	A



GENERAL NOTES:
1. ALL DIMENSIONS ARE IN MILLIMETRES.



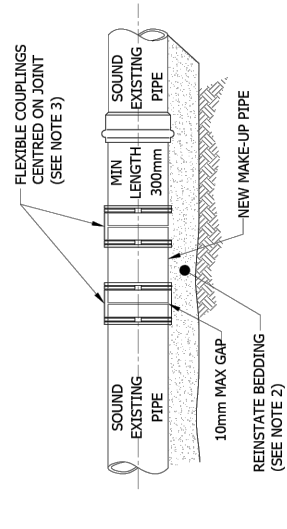
HASTINGS DISTRICT COUNCIL

TYPICAL MAINTENANCE SHAFT DETAILS

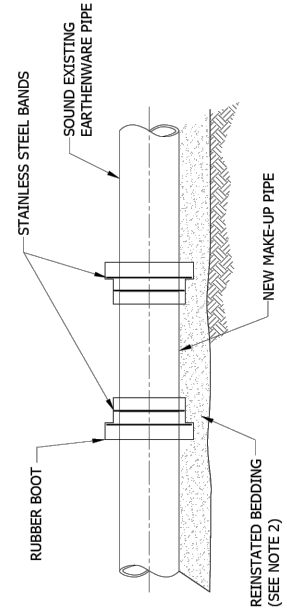
NOT TO SCALE

WS 204

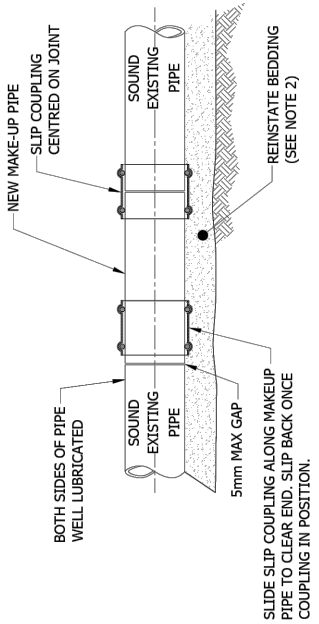
DEC 2018



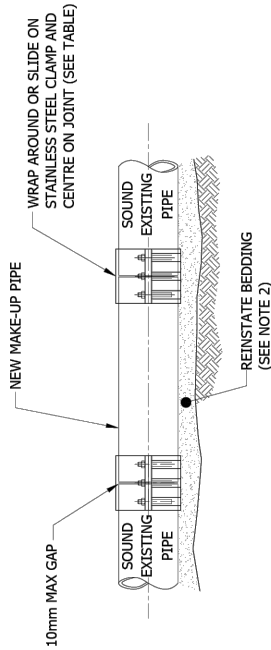
FLEXIBLE COUPLING METHOD



- GENERAL NOTES:
1. ALL DIMENSIONS ARE IN MILLIMETRES.
 2. PLACE EMBEDMENT UNDER AND AROUND ALL INSTALLED PIPE SECTIONS AND SPACERS AND COMPACT TO MAINTAIN GRADE AND MINIMISE SETTLEMENT.
 3. FLEXIBLE COUPLINGS TO HAVE GRADE 316 SS CLAMPS AND SHEAR BANDS TO BE IN ACCORDANCE WITH AS 4327
 4. SLIP COUPLINGS TO BE AS SPECIFIED BY PIPE MANUFACTURER.
 5. A SINGLE REPAIR CLAMP MAY BE USED FOR REPAIR WHERE APPROVED. MINIMUM CLAMP LENGTH EITHER SIDE OF THE DAMAGE AS SHOWN ON THE TABLE.
 6. FLEXIBLE COUPLINGS AND STAINLESS REPAIR CLAMPS ARE NOT APPLICABLE TO RIBBED PIPE.
 7. THOROUGHLY CLEAN SURFACE OF EXISTING PIPE BEFORE INSTALLING CLAMPS OR COUPLINGS



SLIP COUPLING METHOD



STAINLESS STEEL REPAIR CLAMP METHOD



HASTINGS DISTRICT COUNCIL

FIELD JOINT / REPAIR DETAILS - GRAVITY PIPES

NOT TO SCALE

WS 205

DEC 2018

A	SUBSTANTIVE APPLICATION	BB	06/2025
Ref	Revisions	By	Date
	By	Date	
Survey			
Design	RH	06/2026	
Drawn	RH	06/2026	
Checked	BB	06/2026	

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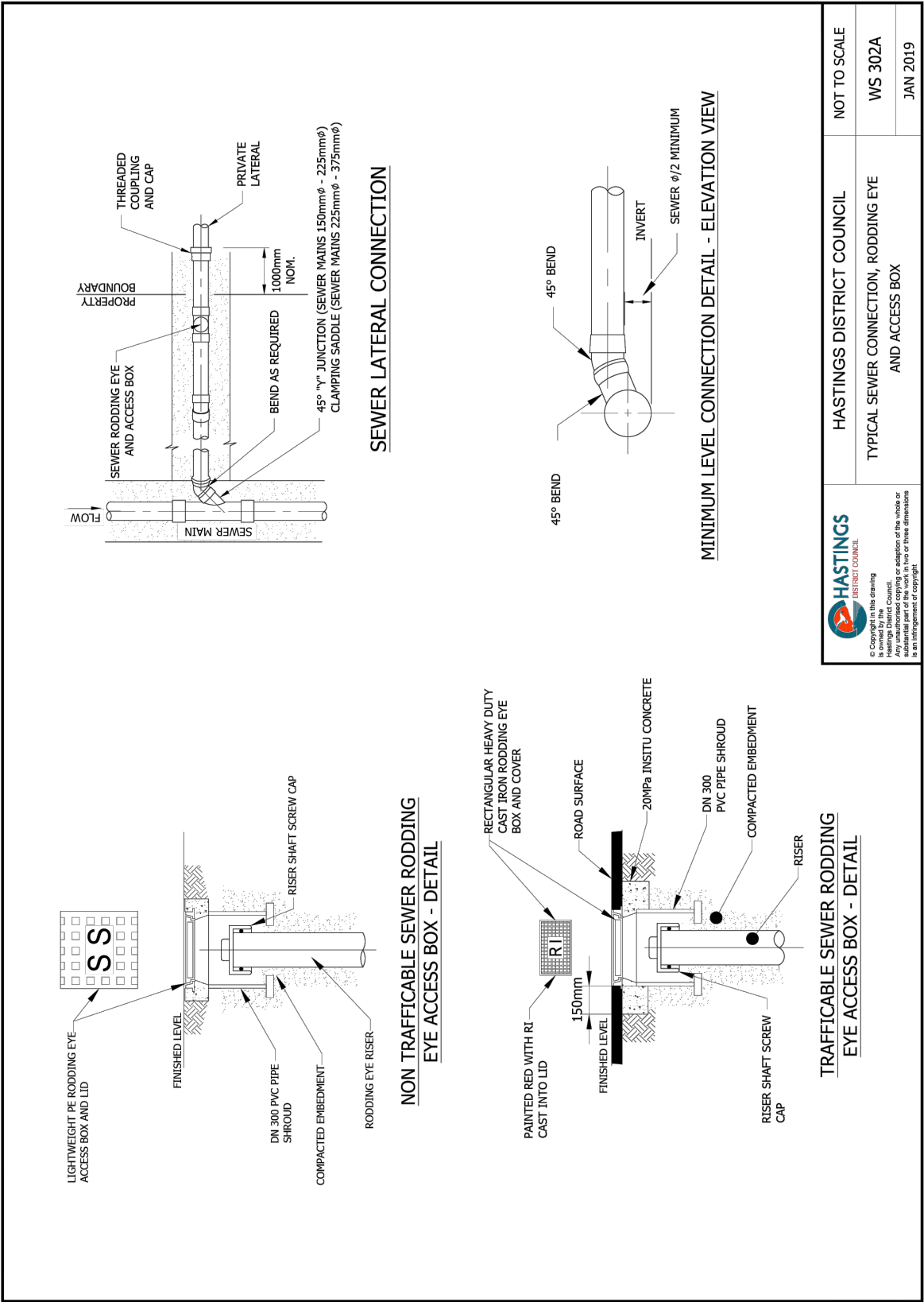
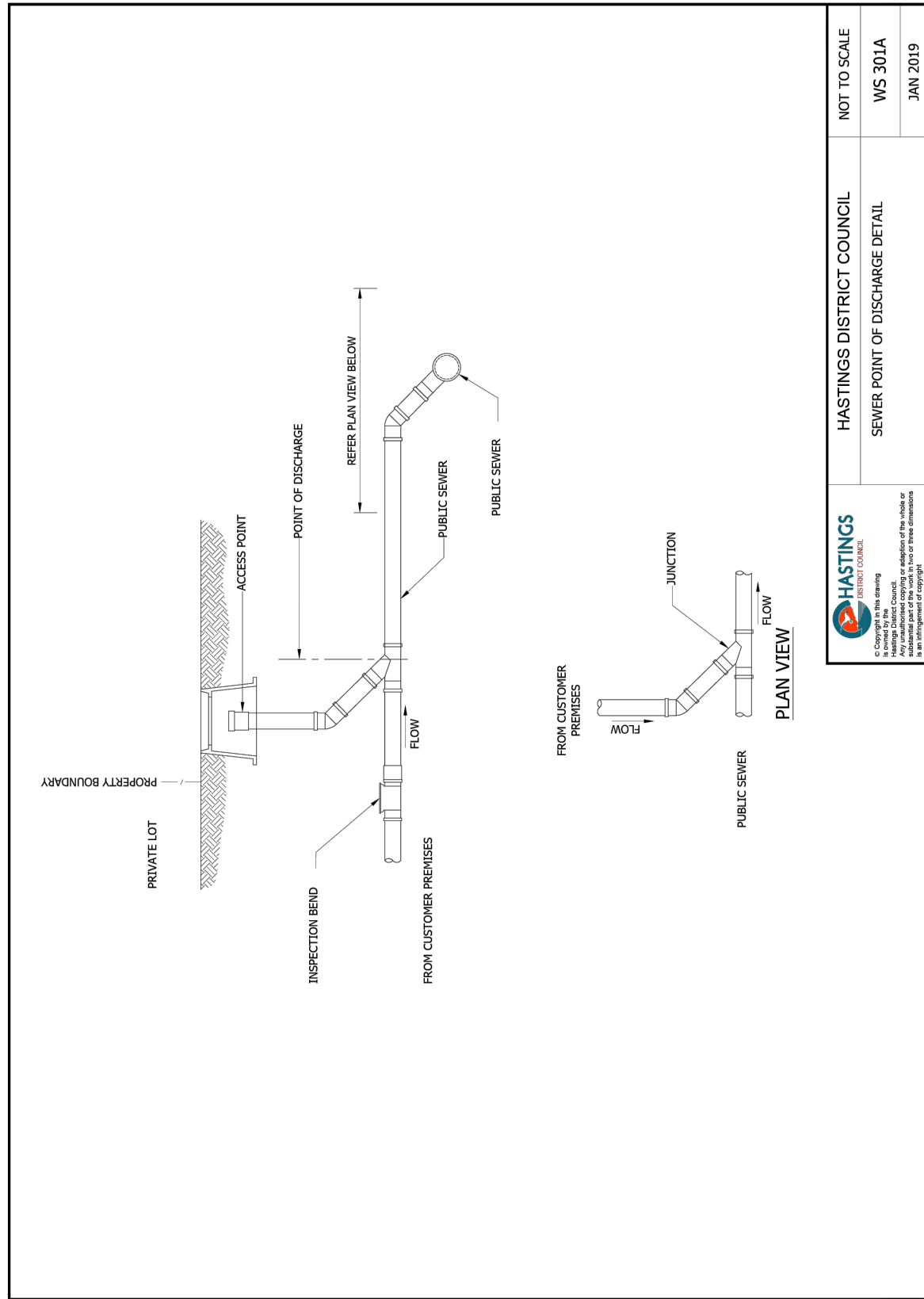
Project

**BROOKVALE GREEN
HAVELOCK NORTH
FOR
VERMONT STREET
PARTNERS NO. 4 LIMITED**

Title

**WASTEWATER
STANDARD DETAIL
PLAN**

Project no.	135041
Scale	AS SHOWN
Cad file	135041-460 RG DETAILS
Drawing no.	C590-1
Rev	A



A	SUBSTANTIVE APPLICATION		BB 06/2025
Ref	Revisions	By	Date
	By	Date	
Survey			
Design	RH	06/2026	
Drawn	RH	06/2026	
Checked	BB	06/2026	



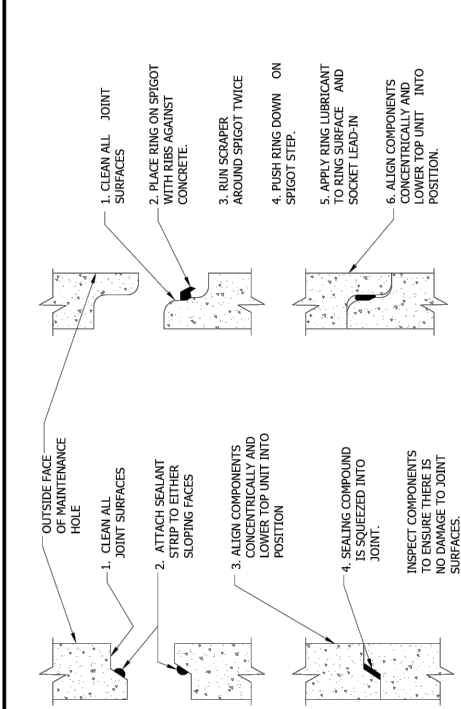
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 Auckland 1023

Project
**BROOKVALE GREEN
HAVELOCK NORTH
FOR
VERMONT STREET
PARTNERS NO. 4 LIMITED**

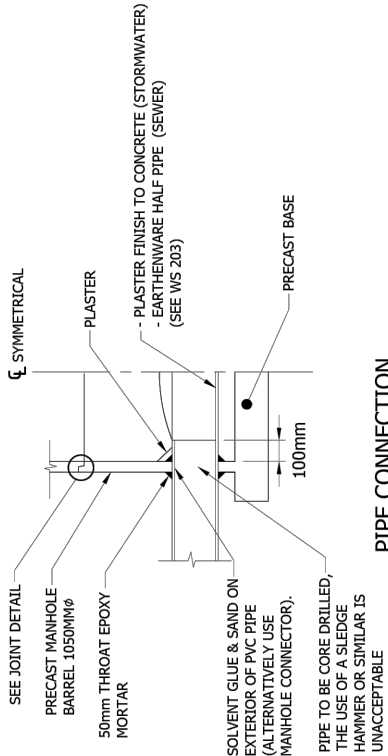
Title

**WASTEWATER
STANDARD DETAIL
PLAN**

Project no.	135041		
Scale	AS SHOWN		
Cad file	135041-460 RG DETAILS		
Drawing no.	C590-3	Rev	A

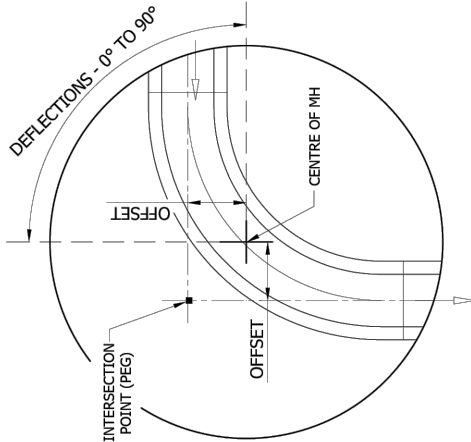
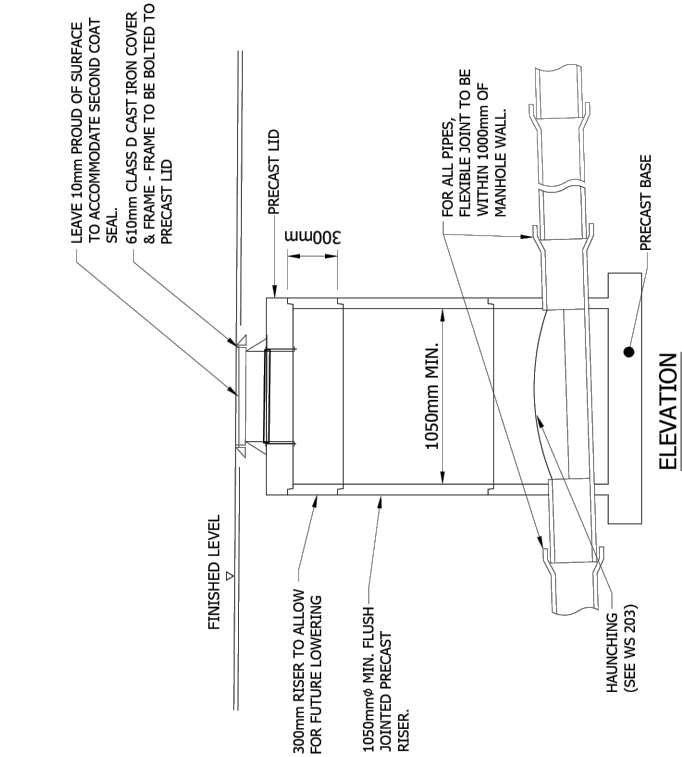


MANHOLE RISER DETAIL

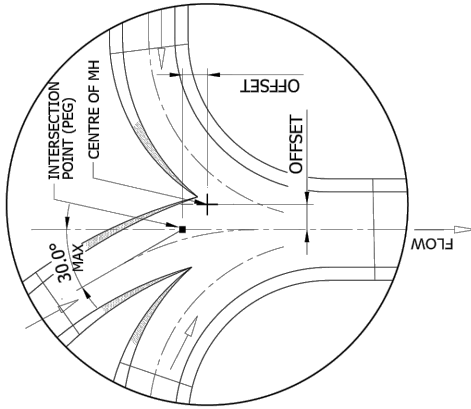


PIPE CONNECTION

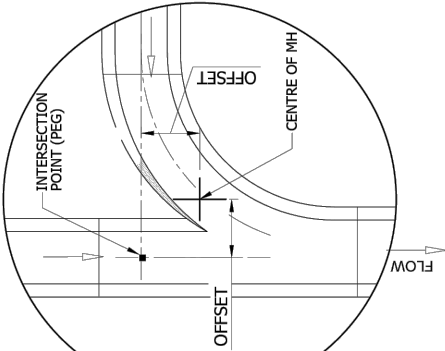
- GENERAL NOTES:
- MAKE-UP RINGS: USE MINIMUM OF ONE 300mm RISER AT TOP PER MANHOLE DURING CONSTRUCTION TO ALLOW FOR FUTURE SURFACE ADJUSTMENT WITHOUT AFFECTING THE SHAFT SECTIONS.
 - WHERE THERE IS SIGNIFICANT RISK OF INFILTRATION OR TREE ROOT INTRODUCTION APPLY AN EXTERNAL BITUMASTIC SEAL TAPE 150mm WIDE OVER A COAT OF MANUFACTURERS RECOMMENDED PRIME SEAL TO ALL JOINTS.



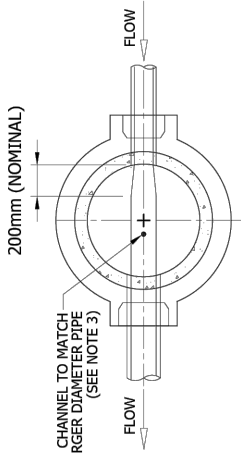
CHANGE IN DIRECTION



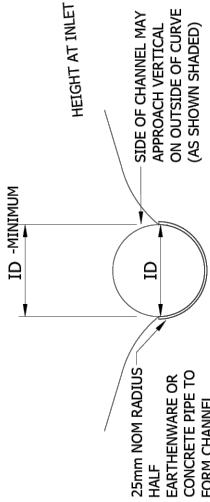
MULTIPLE INCOMING PIPES



STRAIGHT THROUGH & 90° INLET



CHANGE IN DIAMETER



TYPICAL CHANNEL DETAILS

NOTE: BENCHING WITHIN MANHOLES IS REQUIRED FOR ALL STORMWATER APPLICATIONS UNLESS OTHERWISE APPROVED BY HASTINGS DISTRICT COUNCIL

- GENERAL NOTES:
- ALL DIMENSIONS ARE IN MILLIMETRES.
 - PROVIDE ROUNDED NOSING ON INLET AND OUTLET PIPE TO PREVENT DAMAGE TO JETTING EQUIPMENT AND CCTV GUIDES AND CABLES
 - CONSTRUCTION MAY BE A COMBINATION OF PRECAST AND IN-SITU TO SUIT APPLICATION
 - WHERE NECESSARY PULL MANHOLE OFF CENTRELINE OF STORMWATER / SEWER (MAX 200mm) TO IMPROVE FLOW AND ACCESSIBILITY PROVIDED THE FOLLOWING CONDITIONS ARE MET:
 - ALL TANGENT POINTS TO BE CONTAINED WITHIN MANHOLE.
 - SUFFICIENT WORK AREA AVAILABLE.
 - MAINTENANCE EQUIPMENT CAN BE USED IN ALL MAINS.
 - OFFSET AS SPECIFIED

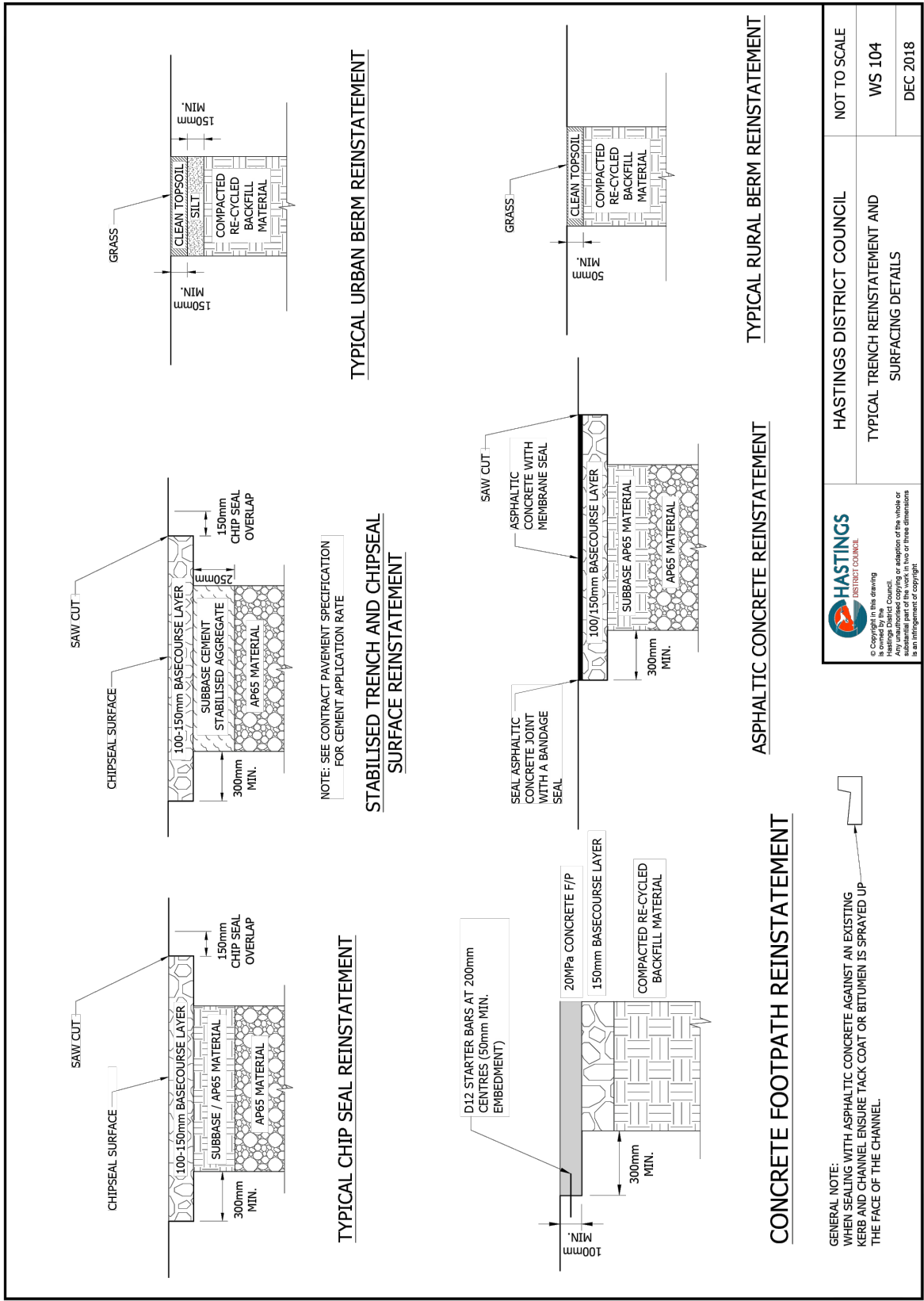
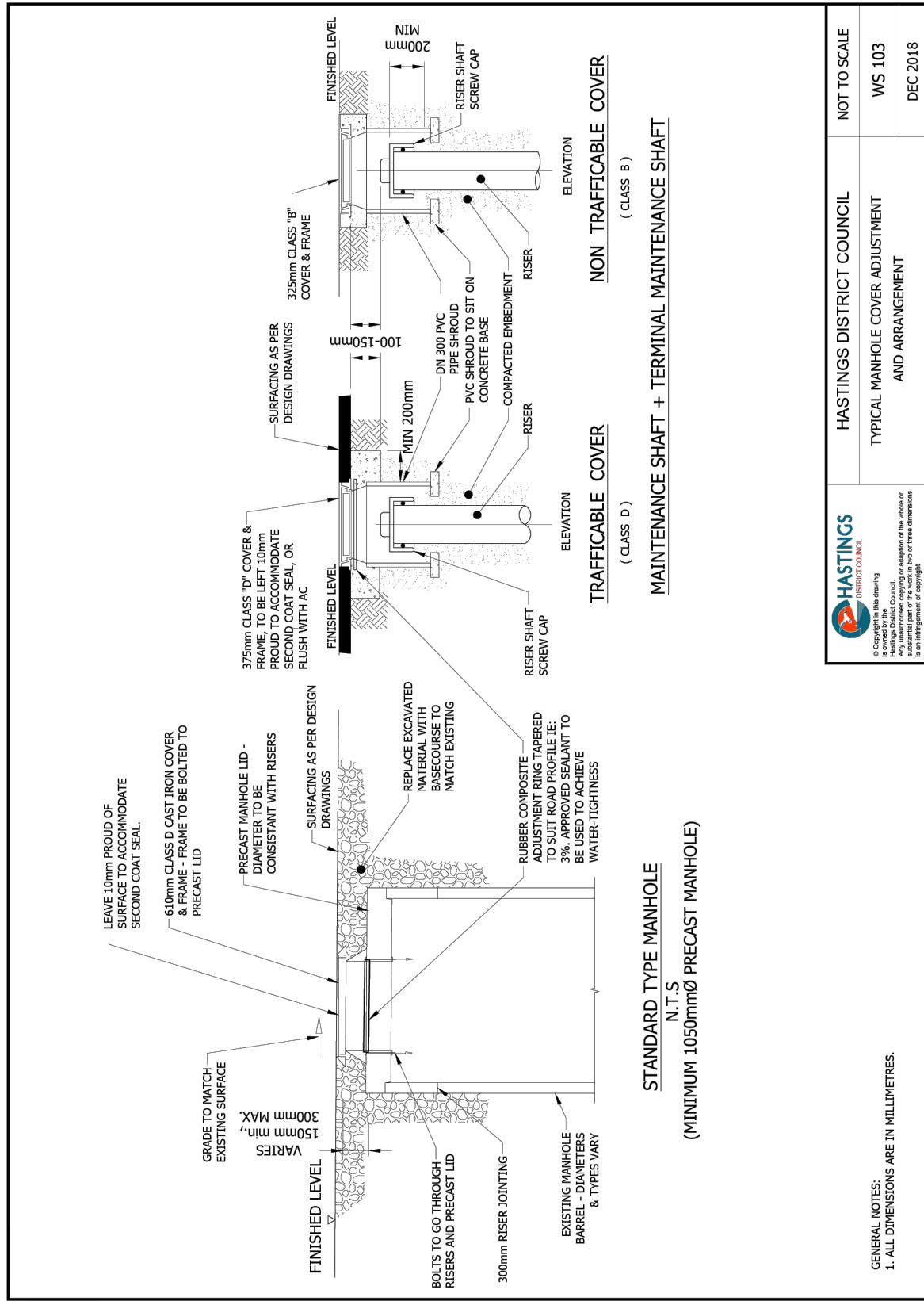


HASTINGS DISTRICT COUNCIL	NOT TO SCALE
STANDARD MANHOLE AND PIPE CONNECTION	WS 202
	DEC 2018

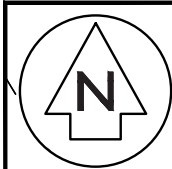


HASTINGS DISTRICT COUNCIL	NOT TO SCALE
MANHOLE - TYPICAL CHANNEL ARRANGEMENTS	WS 203
	DEC 2018

A	SUBSTANTIVE APPLICATION	BB	06/2025
Ref	Revisions	By	Date
		By	Date
Survey			
Design	RH	06/2026	
Drawn	RH	06/2026	
Checked	BB	06/2026	
M A E N Maven Associates 09 571 0050 info@maven.co.nz www.maven.co.nz 5 Owens Road, Epsom Auckland 1023			
Project BROOKVALE GREEN HAVELOCK NORTH FOR VERMONT STREET PARTNERS NO. 4 LIMITED			
Title WASTEWATER STANDARD DETAIL PLAN			
Project no.	135041		
Scale	AS SHOWN		
Cad file	135041-460 RG DETAILS		
Drawing no.	C590-5	Rev	A



A	SUBSTANTIVE APPLICATION			BB	06/2025
Ref	Revisions			By	Date
	By			Date	
Survey					
Design	RH			06/2026	
Drawn	RH			06/2026	
Checked	BB			06/2026	
M M A E N Maven Associates 09 571 0050 info@maven.co.nz www.maven.co.nz 5 Owens Road, Epsom Auckland 1023					
Project					
BROOKVALE GREEN					
HAVELOCK NORTH					
FOR					
VERMONT STREET					
PARTNERS NO. 4 LIMITED					
Title					
WASTEWATER					
STANDARD DETAIL					
PLAN					
Project no.		135041			
Scale		AS SHOWN			
Cad file		135041-460 RG DETAILS			
Drawing no.		C590-6			Rev A



NOTES

1. ALL WORKS TO BE IN ACCORDANCE WITH HASTINGS DISTRICT COUNCIL STANDARDS.
2. IT IS THE CONTRACTORS RESPONSIBILITY TO LOCATE ANY UNDERGROUND SERVICES PRIOR TO THE COMMENCEMENT OF WORKS.
3. MINIMUM COVER SHALL BE:
BERM RIDERMAIN 600MM
BERM WATERMAIN 750MM
ROADS 800MM
4. WATERMAINS LAID ACROSS ROADS SHALL BE BACKFILLED WITH HARDFILL COMPACTED IN 200MM LAYERS ABOVE THE EMBEDMENT MATERIAL.
5. ALL UPVC PIPE SHALL BE PN12 MINIMUM PRESSURE RATED WITH SPIGNOT AND SOCKET RUBBER RING JOINTS.
6. ALL PE PIPE SHALL BE PN12.5 MINIMUM PRESSURE RATED WITH BUTT-WELDED. WELD BEADS SHALL BE REMOVED TO PROVIDE A SMOOTH BORE.
7. ALL NON-METALIC PIPES ARE TO HAVE TRACER WIRE FITTED TO COUNCIL STANDARDS.
8. PIPES SHALL BE BEDDED AND SURROUNDED TO 150MM ABOVE THE PIPE SOFFIT WITH SAND OR AP20.
9. METAL DETECTOR TAPE PRINTED WITH 'WATER PIPE BELOW' SHALL BE LAID 150MM ABOVE ALL WATERMAINS.
10. A YELLOW ISOSCELES TRIANGLE WITH CATS EYE POINTING TO FH SHALL BE PAINTED IN THE CENTRE OF ALL SEALED ROADS.
11. ALL VALVES TO BE MARKED WITH SAWCUT KERB AND BLUE PAINT.
12. ALL FLANGE JOINTS TO BE PROTECTED WITH DENSO TAPE OR SIMILAR APPROVED BY THE ENGINEER.

LEGEND

—	EX BDY
—	PROP BDY
— w —	EX WATERMAIN
— w —	PROP WATERMAIN
— w —	PR WATER PRIVATE
— w —	EX/PROP HYDRANT
— w —	EX/PROP METER
— w —	EX SLUIE VALVE
— w —	EX PEET VALVE
— w —	PROP SLUIE VALVE
— w —	PROP PEET VALVE

A	SUBSTANTIVE APPLICATION	RH	06/2026
Rev	Description	By	Date
		By	Date
Survey	TECH SP		02/2025
Design	RH		06/2026
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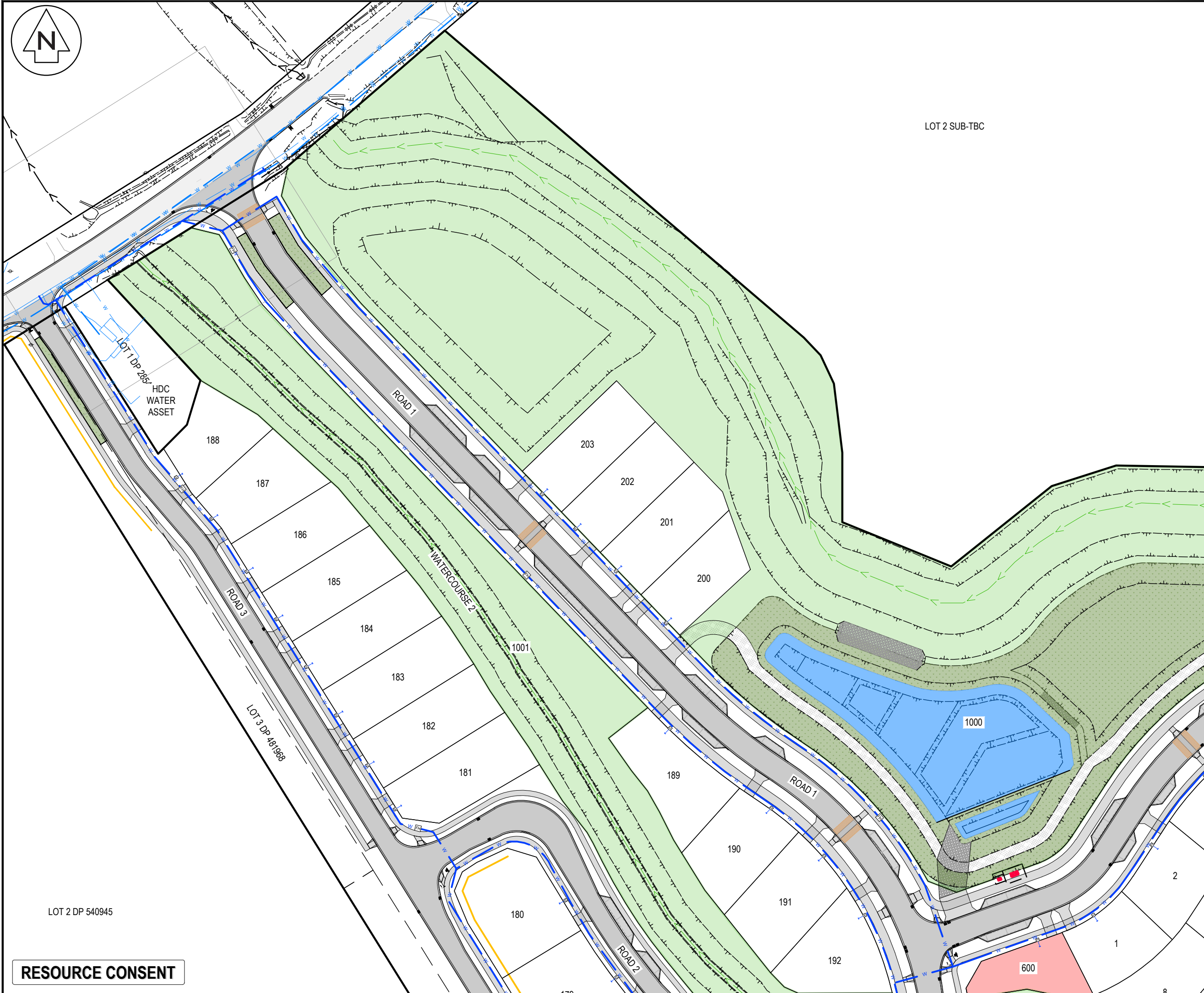
Project
**BROOKVALE GREEN
HAVELOCK NORTH
FOR
VERMONT STREET
PARTNERS NO. 4 LIMITED**

Title
**PROPOSED
WATER SUPPLY
PLAN**

Project no.	135041		
Scale	1:3000 @ A3		
Cad file	135041-C600.DWG		
Drawing no.	C600-0	Rev	A

RESOURCE CONSENT

DATE: 7/2/26 FILEPATH: F:\MAVEN\PROJECTS\135041 BROOKVALE\DWG\135041-C600.DWG



LOT 2 SUB-TBC

- NOTES
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BERM WATERMAIN 750MM
ROADS 800MM
 4. WATERMAINS LAID ACROSS ROADS SHALL BE BACKFILLED WITH HARDFILL COMPACTED IN 200MM LAYERS ABOVE THE EMBEDMENT MATERIAL.
 5. ALL UPVC PIPE SHALL BE PN12 MINIMUM PRESSURE RATED WITH SPIGNOT AND SOCKET RUBBER RING JOINTS.
 6. ALL PE PIPE SHALL BE PN12.5 MINIMUM PRESSURE RATED WITH BUTT-WELDED. WELD BEADS SHALL BE REMOVED TO PROVIDE A SMOOTH BORE.
 7. ALL NON-METALIC PIPES ARE TO HAVE TRACER WIRE FITTED TO COUNCIL STANDARDS.
 8. PIPES SHALL BE BEDDED AND SURROUNDED TO 150MM ABOVE THE PIPE SOFFIT WITH SAND OR AP20.
 9. METAL DETECTOR TAPE PRINTED WITH 'WATER PIPE BELOW' SHALL BE LAID 150MM ABOVE ALL WATERMAINS.
 10. A YELLOW ISOSCELES TRIANGLE WITH CATS EYE POINTING TO FH SHALL BE PAINTED IN THE CENTRE OF ALL SEALED ROADS.
 11. ALL VALVES TO BE MARKED WITH SAWCUT KERB AND BLUE PAINT.
 12. ALL FLANGE JOINTS TO BE PROTECTED WITH DENSO TAPE OR SIMILAR APPROVED BY THE ENGINEER.

LEGEND

—	EX BDY
—	PROP BDY
— w —	EX WATERMAIN
— w —	PROP WATERMAIN
— FH —	PR WATER PRIVATE
— WM —	EX/PROP HYDRANT
⊗	EX/PROP METER
⊗	EX SLUICE VALVE
⊗	EX PEET VALVE
⊗	PROP SLUICE VALVE
⊗	PROP PEET VALVE

A	SUBSTANTIVE APPLICATION	RH	06/2026
Rev	Description	By	Date
		By	Date
Survey	TECH SP		02/2025
Design	RH		06/2026
Drawn	RH		06/2026
Checked	BB		07/2026

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Project
**BROOKVALE GREEN
HAVELOCK NORTH
FOR
VERMONT STREET
PARTNERS NO. 4 LIMITED**

Title
**PROPOSED
WATER SUPPLY
PLAN**

Project no.	135041
Scale	1:1000 @ A3
Cad file	135041-C600.DWG
Drawing no.	C600-1
Rev	A

RESOURCE CONSENT



LOT 21 DP 3449

EXISTING BORE AND PUMP
SHED TO BE USED DURING
CONSTRUCTION AND REMOVED / ABANDONED
WHEN CONSTRUCTION COMPLETED

WATERCOURSE 1

ROAD 1

ROAD 5

ROAD 6

ROAD 5

1001

ROW 3

ROW 4

ROW 5

RESOURCE CONSENT

- NOTES
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⊗	EX/PROP METER
⊗	EX SLUICE VALVE
⊗	EX PEET VALVE
⊗	PROP SLUICE VALVE
⊗	PROP PEET VALVE

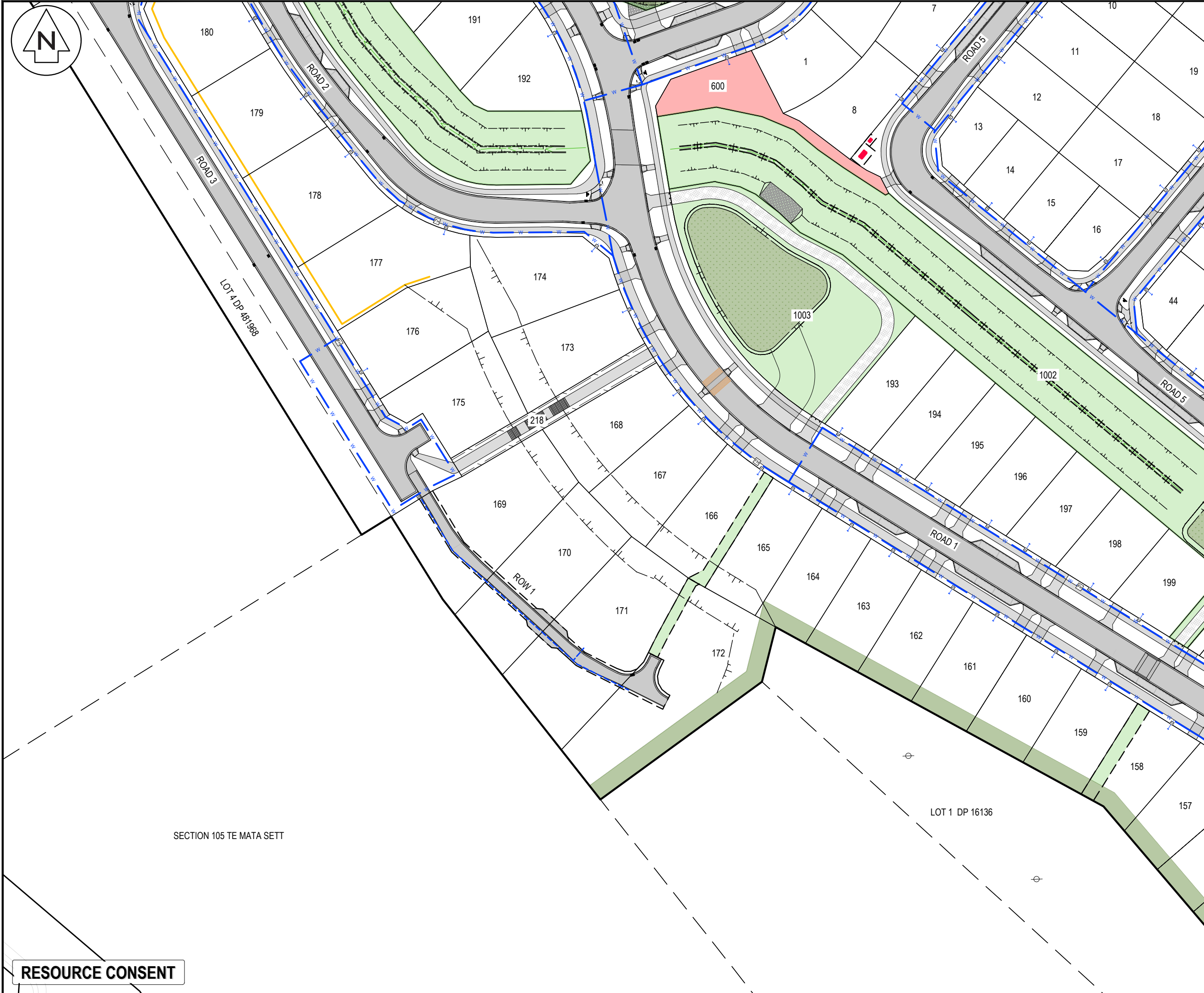
A	SUBSTANTIVE APPLICATION	RH	06/2026
Rev	Description	By	Date
		By	Date
Survey	TECH SP		02/2025
Design	RH		06/2026
Drawn	RH		06/2026
Checked	BB		07/2026

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Project
**BROOKVALE GREEN
HAVELOCK NORTH
FOR
VERMONT STREET
PARTNERS NO. 4 LIMITED**

Title
**PROPOSED
WATER SUPPLY
PLAN**

Project no.	135041
Scale	1:1000 @ A3
Cad file	135041-C600.DWG
Drawing no.	C600-2
Rev	A



- NOTES
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	PROP BDY
	EX WATERMAIN
	PROP WATERMAIN
	PR WATER PRIVATE
	EX/PROP HYDRANT
	EX/PROP METER
	EX SLUICE VALVE
	EX PEET VALVE
	PROP SLUICE VALVE
	PROP PEET VALVE

A	SUBSTANTIVE APPLICATION	RH	06/2026
Rev	Description	By	Date
Survey	TECH SP		02/2025
Design	RH		06/2026
Drawn	RH		06/2026
Checked	BB		07/2026

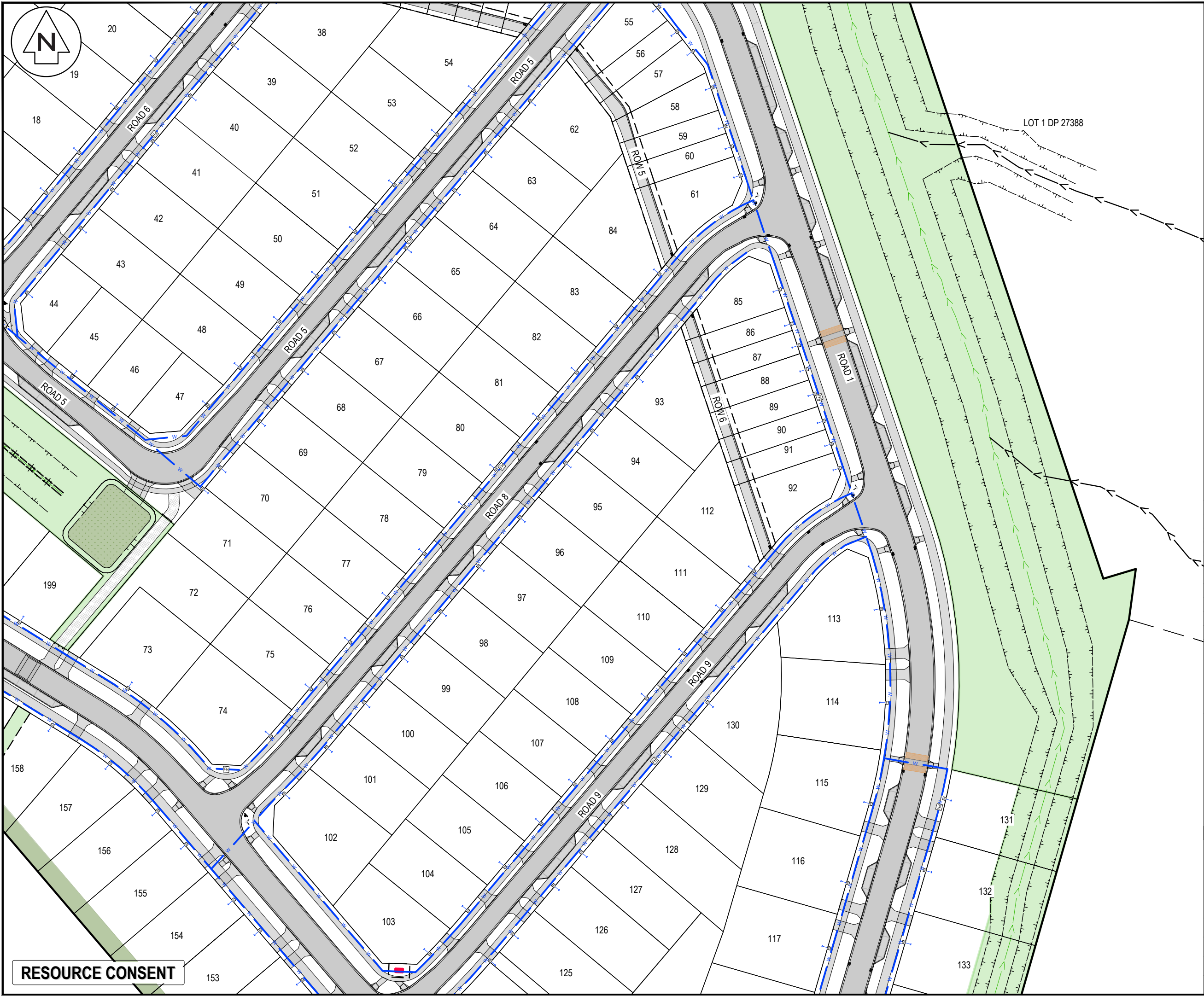
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Project
**BROOKVALE GREEN
HAVELOCK NORTH
FOR
VERMONT STREET
PARTNERS NO. 4 LIMITED**

Title
**PROPOSED
WATER SUPPLY
PLAN**

Project no.	135041		
Scale	1:1000 @ A3		
Cad file	135041-C600.DWG		
Drawing no.	C600-3	Rev	A

RESOURCE CONSENT



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	PR WATER PRIVATE
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	EX SLUICE VALVE
	EX PEET VALVE
	PROP SLUICE VALVE
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A	SUBSTANTIVE APPLICATION	RH	06/2026
Rev	Description	By	Date
		By	Date
Survey	TECH SP		02/2025
Design	RH		06/2026
Drawn	RH		06/2026
Checked	BB		07/2026



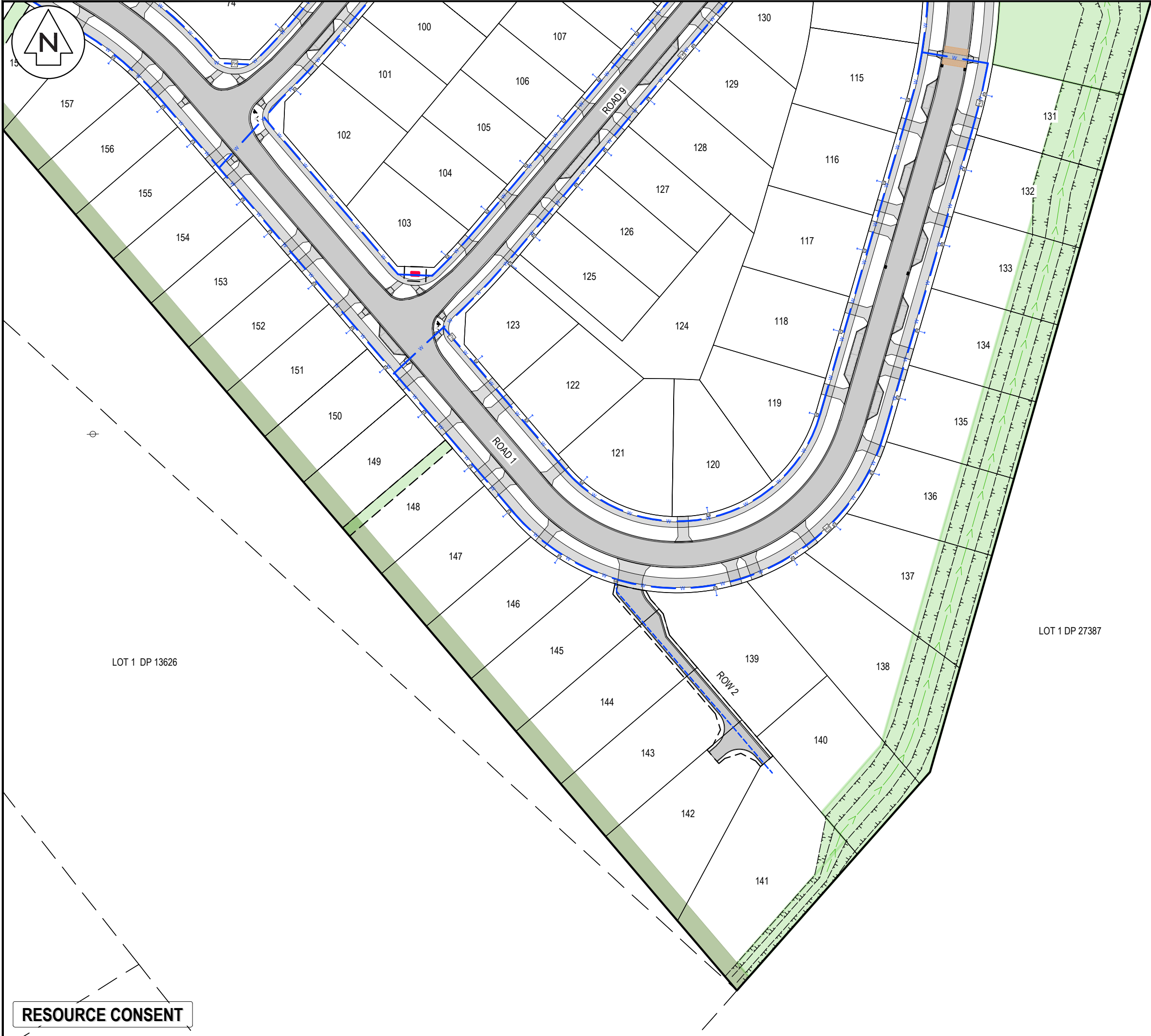
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Project
**BROOKVALE GREEN
HAVELOCK NORTH
FOR
VERMONT STREET
PARTNERS NO. 4 LIMITED**

Title
**PROPOSED
WATER SUPPLY
PLAN**

Project no.	135041		
Scale	1:1000 @ A3		
Cad file	135041-C600.DWG		
Drawing no.	C600-4	Rev	A

RESOURCE CONSENT



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	EX WATERMAIN
	PROP WATERMAIN
	PR WATER PRIVATE
	EX/PROP HYDRANT
	EX/PROP METER
	EX SLUICE VALVE
	EX PEET VALVE
	PROP SLUICE VALVE
	PROP PEET VALVE

A	SUBSTANTIVE APPLICATION	RH	06/2026
Rev	Description	By	Date
		By	Date
Survey	TECH SP		02/2025
Design	RH		06/2026
Drawn	RH		06/2026
Checked	BB		07/2026



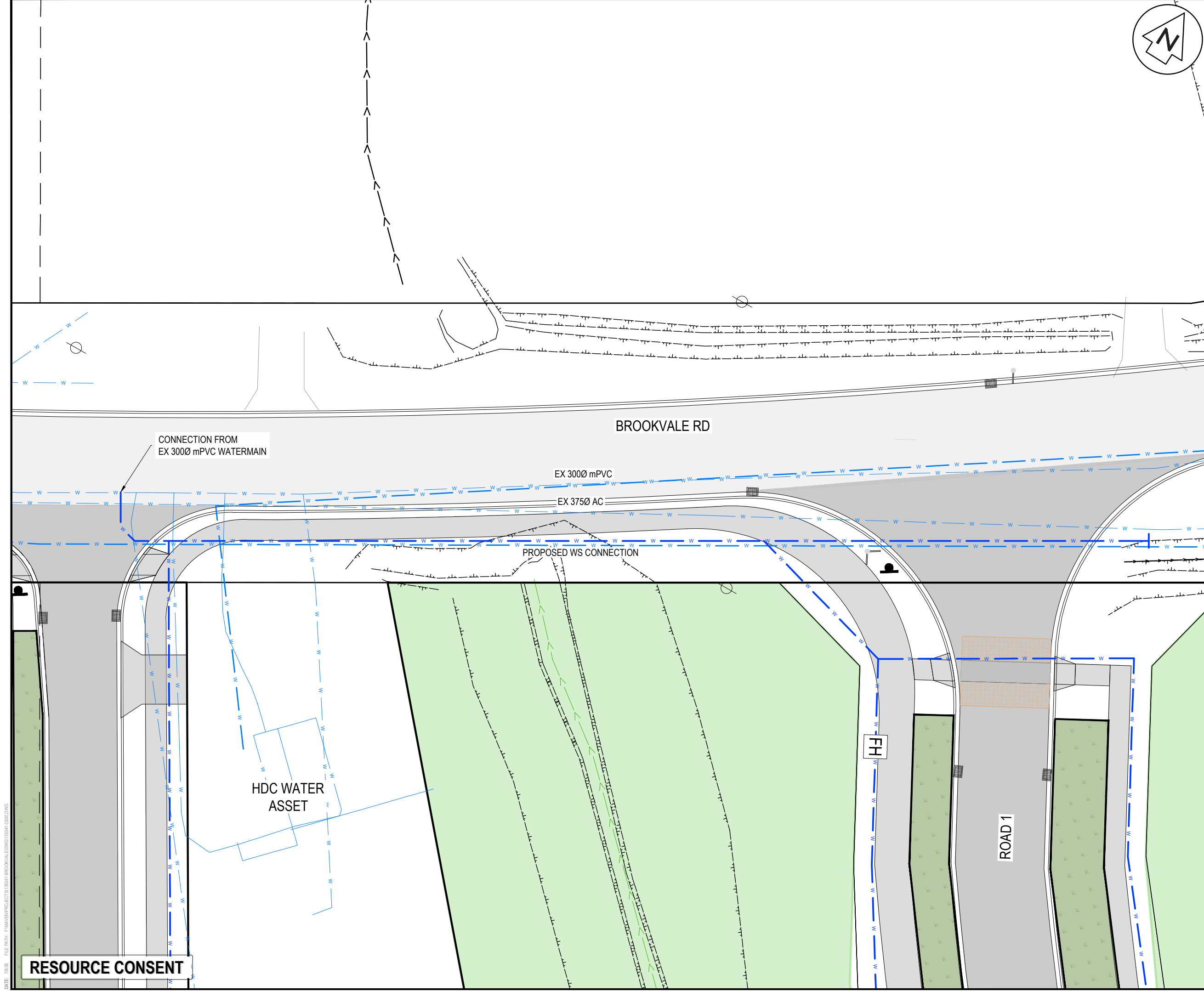
Maven Associates
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Project
**BROOKVALE GREEN
HAVELOCK NORTH
FOR
VERMONT STREET
PARTNERS NO. 4 LIMITED**

Title
**PROPOSED
WATER SUPPLY
PLAN**

Project no.	135041		
Scale	1:1000 @ A3		
Cad file	135041-C600.DWG		
Drawing no.	C600-5	Rev	A

RESOURCE CONSENT



- NOTES
1. ALL WORKS TO BE IN ACCORDANCE WITH HASTINGS DISTRICT COUNCIL STANDARDS.
 2. IT IS THE CONTRACTORS RESPONSIBILITY TO LOCATE ANY UNDERGROUND SERVICES PRIOR TO THE COMMENCEMENT OF WORKS.
 3. MINIMUM COVER SHALL BE:
CARRIAGEWAY 800MM
BERMS 600MM
 4. WATERMAINS LAID ACROSS ROADS SHALL BE BACKFILLED WITH HARDFILL COMPACTED IN 200MM LAYERS ABOVE THE EMBEDMENT MATERIAL.
 5. ALL UPVC PIPE SHALL BE PN12 MINIMUM PRESSURE RATED WITH SPIGNOT AND SOCKET RUBBER RING JOINTS.
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LEGEND

	EX BDY
	PROP BDY
	EX WATERMAIN
	PROP WATERMAIN
	PR WATER PRIVATE
	EX/PROP HYDRANT
	EX/PROP METER
	EX SLUICE VALVE
	EX PEET VALVE
	PROP SLUICE VALVE
	PROP PEET VALVE

A	FOR FAST TRACK REFERRAL	BB	06/2026
Rev	Description	By	Date
Survey	TECH SP		02/2025
Design	RH		06/2026
Drawn	RH		06/2026
Checked	BB		07/2026

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5 Owens Road, Epsom
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Project

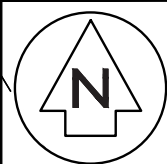
**BROOKVALE GREEN
HAVELOCK NORTH
FOR
VERMONT STREET
PARTNERS NO. 4 LIMITED**

Title

**PROPOSED
WATER SUPPLY
CONNECTION**

Project no.	135041		
Scale	1:250 @ A3		
Cad file	135041-C600.DWG		
Drawing no.	C601-1	Rev	A

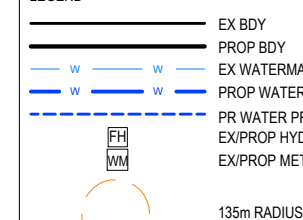
DATE: 7/8/26 FILE PATH: F:\MAVEN\PROJECTS\135041 BROOKVALE.DWG C601.DWG



- NOTES**
1. ALL WORKS TO BE IN ACCORDANCE WITH HASTINGS DISTRICT COUNCIL STANDARDS.
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ROADS	800MM
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LEGEND



A	SUBSTANTIVE APPLICATION		RH	06/2026
Rev	Description		By	Date
	By	Date		
Survey	TECH SP	02/2025		
Design	RH	05/2026		
Drawn	RH	05/2026		
Checked	BB	07/2026		



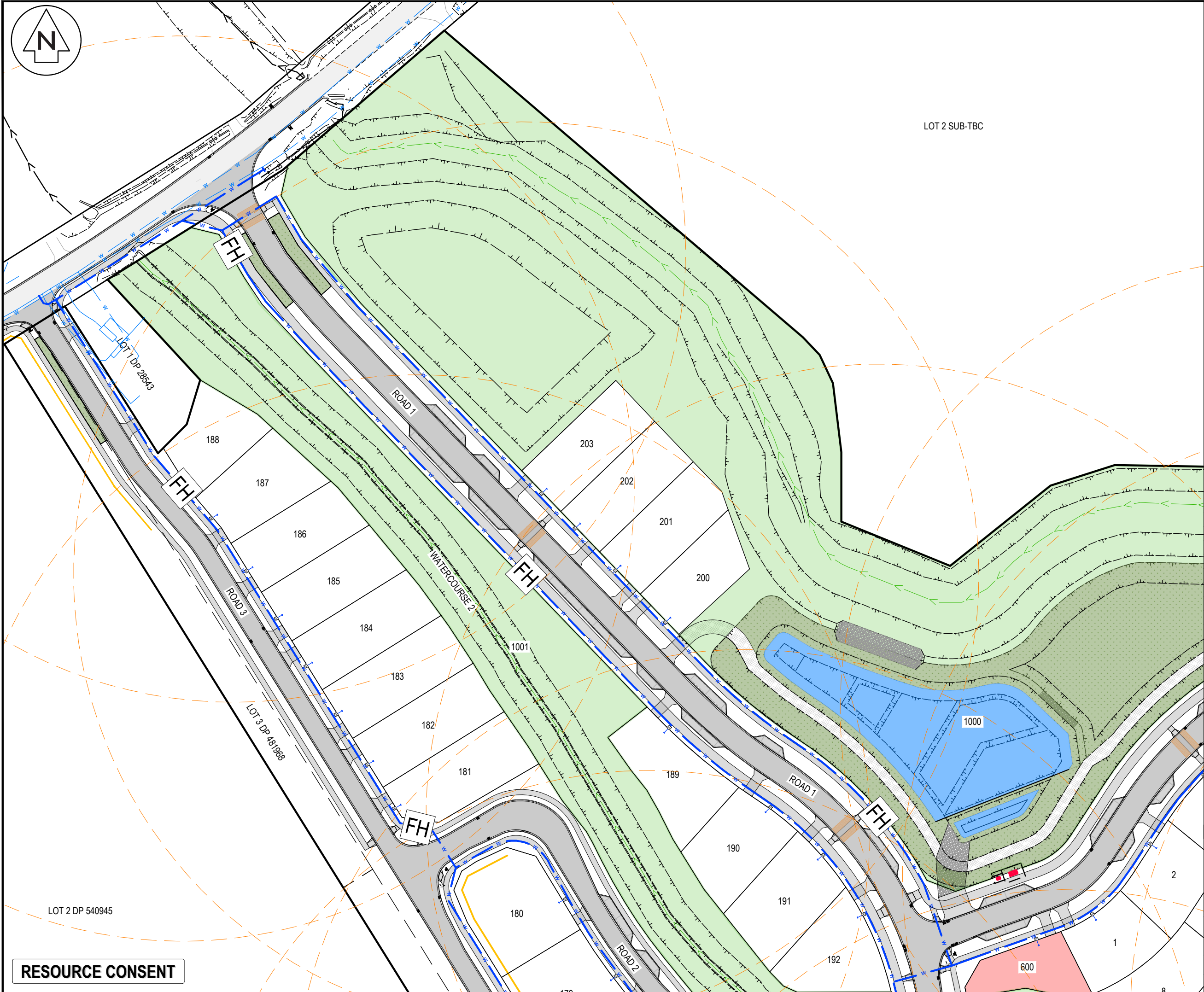
Project
**BROOKVALE GREEN
HAVELOCK NORTH
FOR
VERMONT STREET
PARTNERS NO. 4 LIMITED**

Title
**PROPOSED
FIRE HYDRANT
PLAN**

Project no.	135041		
Scale	1:3000 @ A3		
Cad file	135041-C610 FH.DWG		
Drawing no.	C610-0	Rev	A

RESOURCE CONSENT

DATE: 7/8/26 FILE PATH: F:\MAVEN\PROJECTS\1350\41 BROOK\AI FIDWG\1350\41 C610 FID.WMG



NOTES

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LEGEND

—	EX BDY
—	PROP BDY
— W —	EX WATERMAIN
— W —	PROP WATERMAIN
— FH —	PR WATER PRIVATE
— WM —	EX/PROP HYDRANT
—	EX/PROP METER

135m RADIUS

A	SUBSTANTIVE APPLICATION	RH	06/2026
Rev	Description	By	Date
Survey	TECH SP		02/2025
Design	RH		05/2026
Drawn	RH		05/2026
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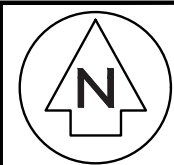
M **Maven Associates**
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Project
**BROOKVALE GREEN
HAVELOCK NORTH
FOR
VERMONT STREET
PARTNERS NO. 4 LIMITED**

Title
**PROPOSED
FIRE HYDRANT
PLAN**

Project no.	135041		
Scale	1:1000 @ A3		
Cad file	135041-C610 FH.DWG		
Drawing no.	C610-1	Rev	A

DATE: 7/9/26 FILE PATH: F:\MAVEN\PROJECTS\135041 BROOKVALE.DWG\135041_C610_FH.DWG



LOT 21 DP 3449

WATERCOURSE 1

ROAD 1

FH

FH

ROW 3

ROW 4

1001

FH

ROAD 5

FH

ROAD 6

FH

ROAD 5

ROW 5

RESOURCE CONSENT

NOTES

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LEGEND

	EX BDY
	PROP BDY
	EX WATERMAIN
	PROP WATERMAIN
	PR WATER PRIVATE
	EX/PROP HYDRANT
	EX/PROP METER
	135m RADIUS

A	SUBSTANTIVE APPLICATION	RH	06/2026
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Rev	Description	By	Date
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Survey	TECH SP		02/2025
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Design	RH		05/2026
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Drawn	RH		05/2026
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Checked	BB		07/2026
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Project
**BROOKVALE GREEN
HAVELOCK NORTH
FOR
VERMONT STREET
PARTNERS NO. 4 LIMITED**

Title
**PROPOSED
FIRE HYDRANT
PLAN**

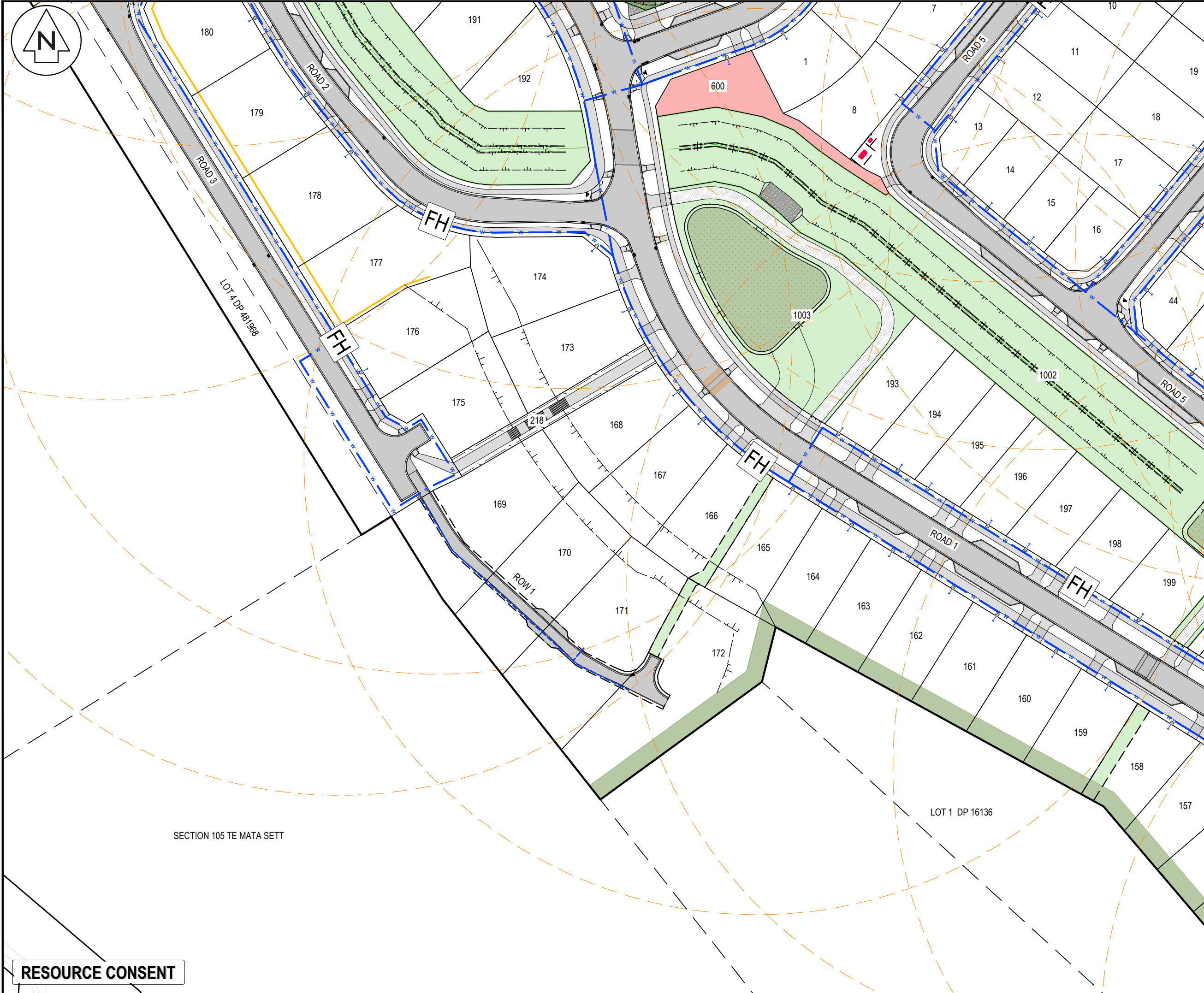
Project no.	135041
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Scale	1:1000 @ A3
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Cad file	135041-C610 FH.DWG
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Drawing no.	C610-2
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Rev	A
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- A YELLOW ISOSCELES TRIANGLE WITH CATS EYE POINTING TO FH SHALL BE PAINTED IN THE CENTRE OF ALL SEALED ROADS.
- ALL VALVES TO BE MARKED WITH SAWCUT KERB AND BLUE PAINT.
- ALL FLANGE JOINTS TO BE PROTECTED WITH DENSOTAPE OR SIMILAR APPROVED BY THE ENGINEER.

LEGEND

—	EX BDY
—	PROP BDY
— W —	EX WATERMAIN
— W —	PROP WATERMAIN
— FH —	PR WATER PRIVATE
— WM —	EX/PROP HYDRANT
—	EX/PROP METER

135m RADIUS

A	SUBSTANTIVE APPLICATION		RH	06/2026
Rev	Description	By	Date	
Survey	TECH SP		02/2025	
Design	RH		05/2026	
Drawn	RH		05/2026	
Checked	BB		07/2026	

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Project

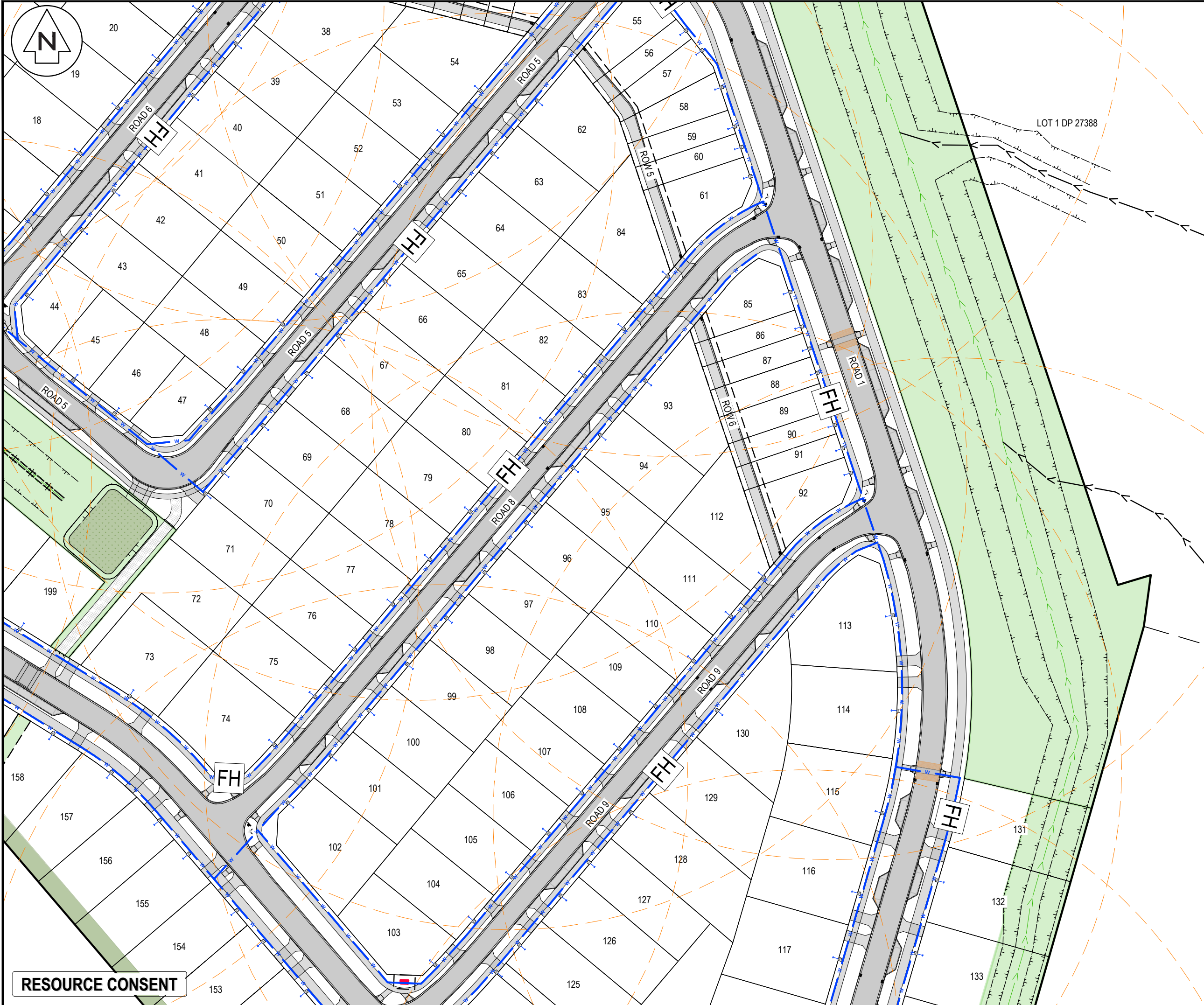
**BROOKVALE GREEN
HAVELOCK NORTH
FOR
VERMONT STREET
PARTNERS NO. 4 LIMITED**

Title

**PROPOSED
FIRE HYDRANT
PLAN**

Project no.	135041		
Scale	1:1000 @ A3		
Cad file	135041-C610 FH.DWG		
Drawing no.	C610-3	Rev	A

RESOURCE CONSENT



- NOTES
1. ALL WORKS TO BE IN ACCORDANCE WITH HASTINGS DISTRICT COUNCIL STANDARDS.
 2. IT IS THE CONTRACTORS RESPONSIBILITY TO LOCATE ANY UNDERGROUND SERVICES PRIOR TO THE COMMENCEMENT OF WORKS.
 3. MINIMUM COVER SHALL BE:
BERM RIDERMAIN 600MM
BERM WATERMAIN 750MM
ROADS 800MM
 4. WATERMAINS LAID ACROSS ROADS SHALL BE BACKFILLED WITH HARDFILL COMPACTED IN 200MM LAYERS ABOVE THE EMBEDMENT MATERIAL.
 5. ALL UPVC PIPE SHALL BE PN12 MINIMUM PRESSURE RATED WITH SPIGNOT AND SOCKET RUBBER RING JOINTS.
 6. ALL PE PIPE SHALL BE PN12.5 MINIMUM PRESSURE RATED WITH BUTT-WELDED. WELD BEADS SHALL BE REMOVED TO PROVIDE A SMOOTH BORE.
 7. ALL NON-METALIC PIPES ARE TO HAVE TRACER WIRE FITTED TO COUNCIL STANDARDS.
 8. PIPES SHALL BE BEDDED AND SURROUNDED TO 150MM ABOVE THE PIPE SOFFIT WITH SAND OR AP20.
 9. METAL DETECTOR TAPE PRINTED WITH 'WATER PIPE BELOW' SHALL BE LAID 150MM ABOVE ALL WATERMAINS.
 10. A YELLOW ISOSCELES TRIANGLE WITH CATS EYE POINTING TO FH SHALL BE PAINTED IN THE CENTRE OF ALL SEALED ROADS.
 11. ALL VALVES TO BE MARKED WITH SAWCUT KERB AND BLUE PAINT.
 12. ALL FLANGE JOINTS TO BE PROTECTED WITH DENSO TAPE OR SIMILAR APPROVED BY THE ENGINEER.

LEGEND

—	EX BDY
—	PROP BDY
— w —	EX WATERMAIN
— w —	PROP WATERMAIN
- - -	PR WATER PRIVATE
FH	EX/PROP HYDRANT
WM	EX/PROP METER
○	135m RADIUS

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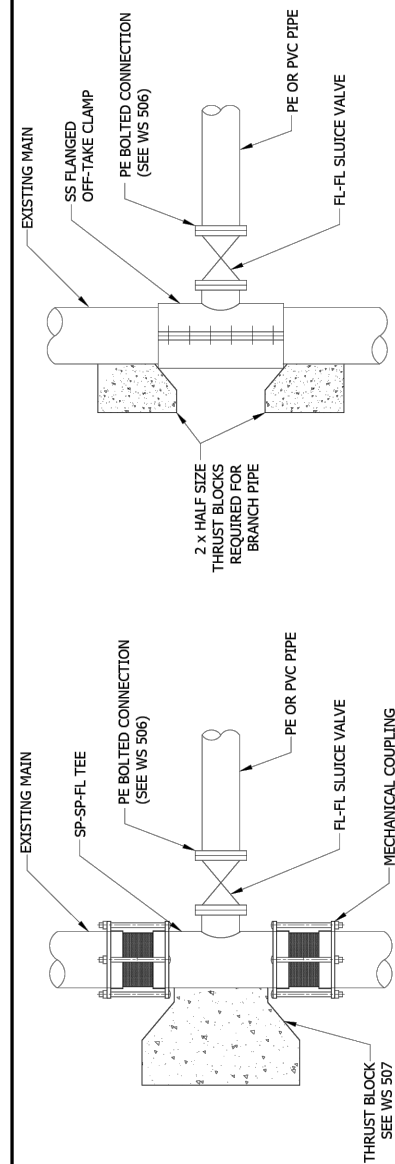
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Project
**BROOKVALE GREEN
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FIRE HYDRANT
PLAN**

Project no.	135041
Scale	1:1000 @ A3
Cad file	135041-C610 FH.DWG
Drawing no.	C610-4
Rev	A

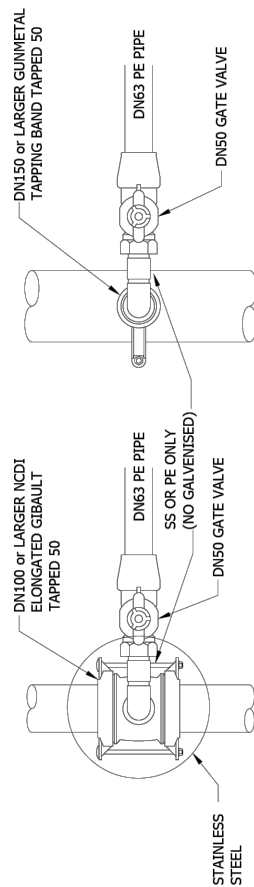
RESOURCE CONSENT



CUT-IN CONNECTION METHOD (USING MECHANICAL COUPLINGS)

UNDER PRESSURE CONNECTION METHOD (USING SS FULL WRAP FLANGED OFFTAKE)

CONNECTION METHODS FOR OFFTAKE $\geq$ DN 100 DI, PVC AND PE PIPE



DN63 TAKE-OFF $\geq 100\text{mm}$

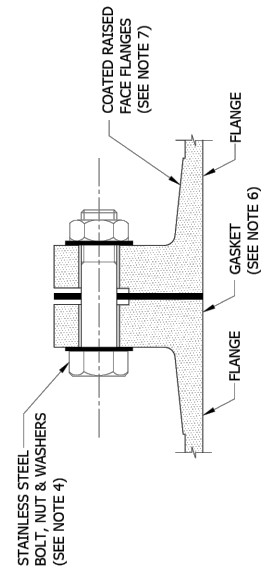
DN63 TAKE-OFF $\geq 150\text{mm}$

CONNECTION METHOD FOR DN 63 PE PIPE

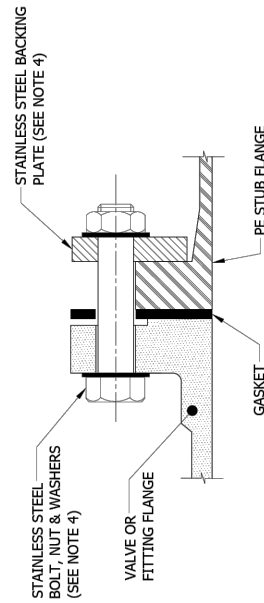
- NOTES
1. S/S OFF-TAKE CLAMP TO BE GRADE 316 S/S AND OF FULL WRAP CONFIGURATION.
 2. PE ELECTROFUSION (EF) FITTINGS TO BE CLASS PN 16.
 3. BACKING FLANGES FOR PE STUB FLANGES TO BE MANUFACTURED FROM 316 SS BOLTS, NUTS & WASHERS TO BE SS GRADE 316.

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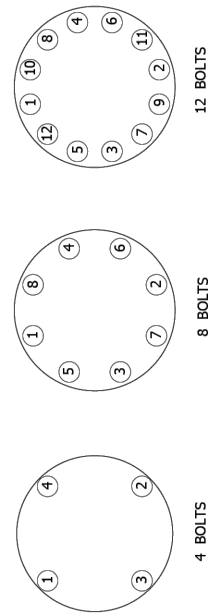
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	TYPICAL CONNECTIONS TO EXISTING MAINS		WS 505
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CORROSION PROTECTION PROCEDURE
FOR FUSION BONDED COATED
DUCTILE IRON FLANGES
WITH STAINLESS STEEL BOLTS



PE BOLTED CONNECTION DETAIL

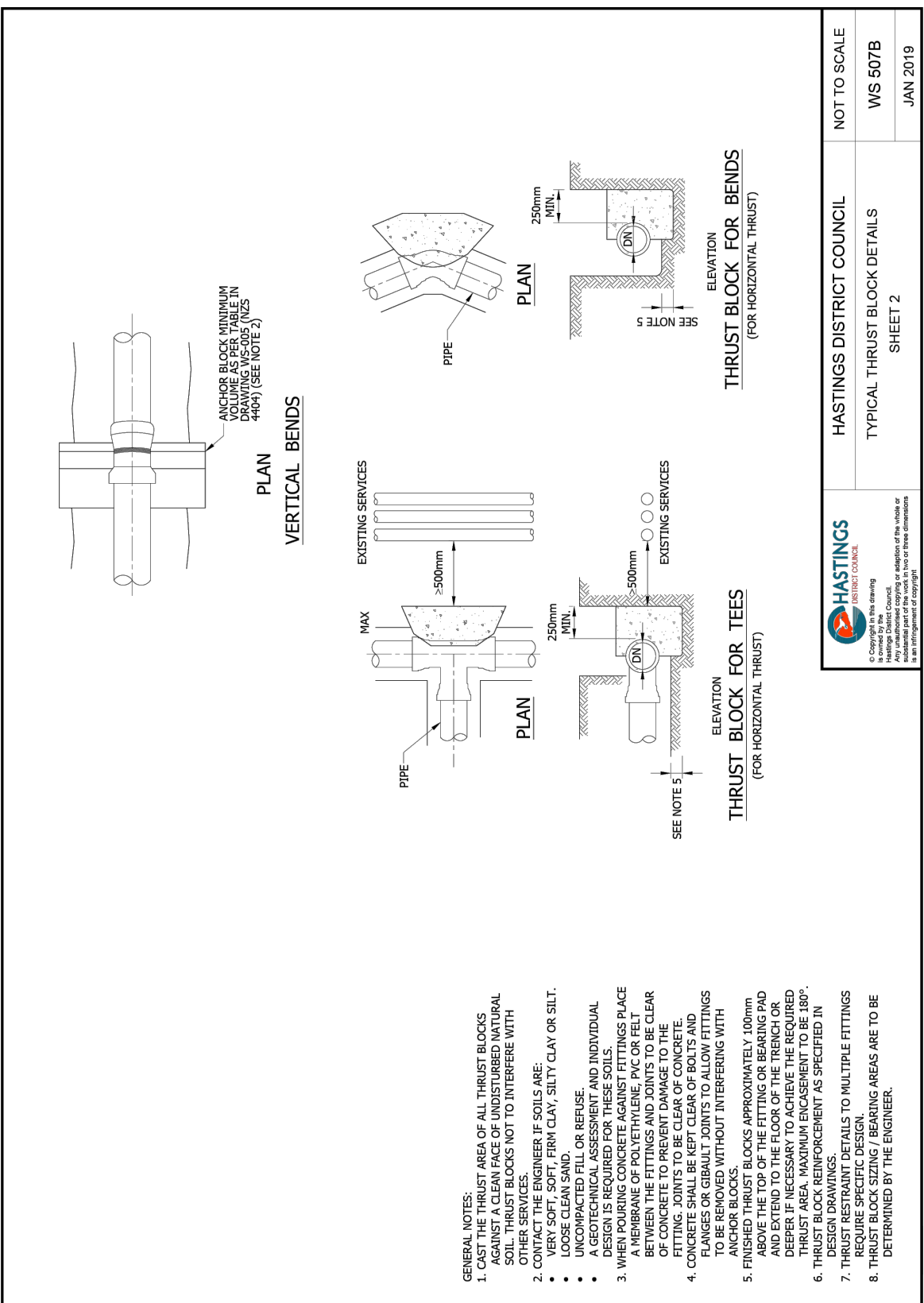
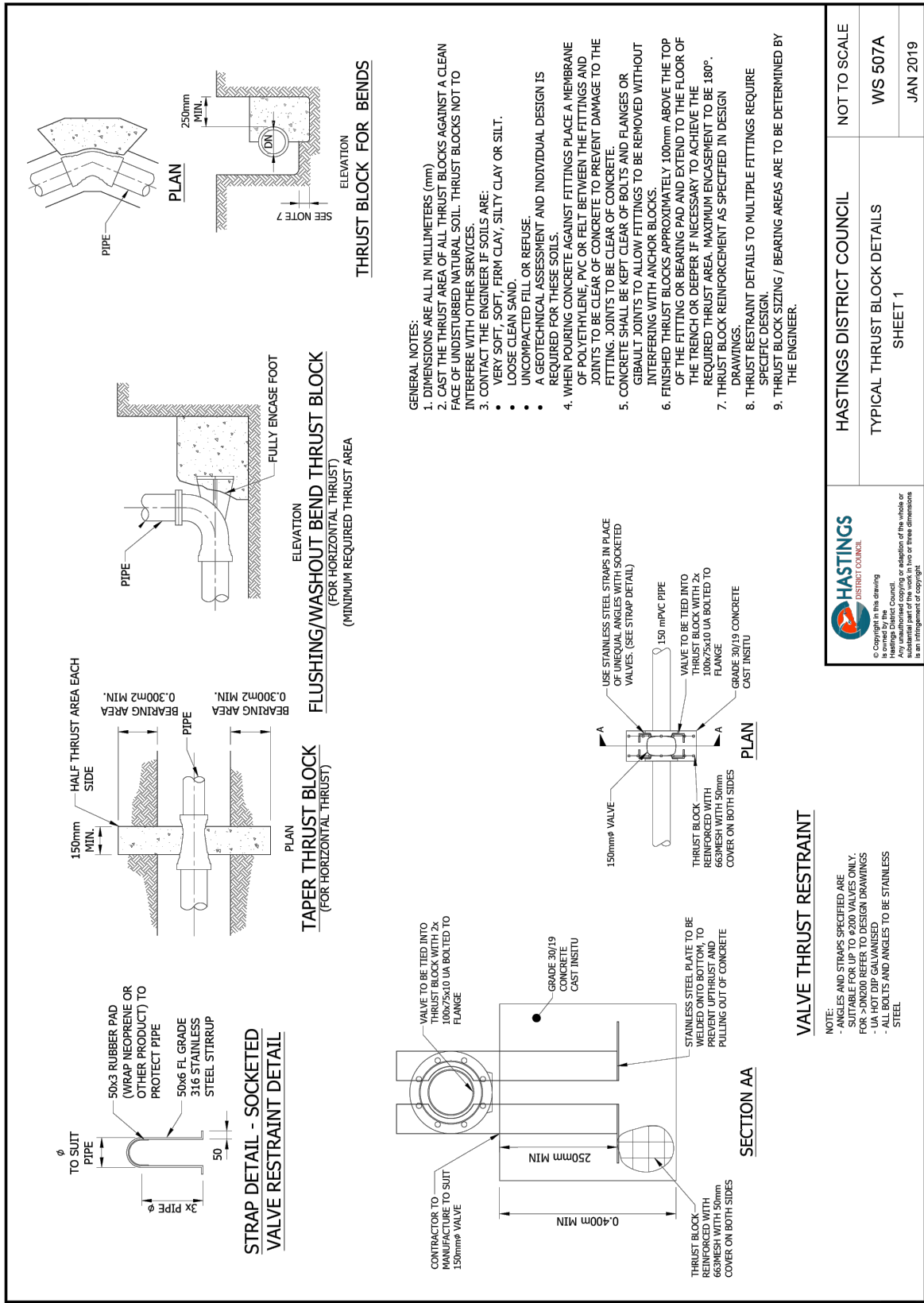


TIGHTENING SEQUENCE

1. ALL DIMENSIONS IN MILLIMETRES.
2. SLEEVE UNCOATED DUCTILE IRON FLANGES. USE SS BOLTS (SEE NOTE 4) APPLY TWO LAYERS OF SLEEVING OVER ALL BURIED BITUMEN COATED DUCTILE IRON FLANGES.
3. WHERE FLANGES ARE COATED WITH FUSION BONDED EPOXY OR NYLON THEY DO NOT REQUIRE SLEEVING. USE ONLY STAINLESS STEEL BOLTS (SEE NOTE 4) TAKE CARE TO PREVENT DAMAGE TO THE FLANGES' PROTECTIVE COATING.
4. STAINLESS STEEL BOLT SYSTEM. ALL STAINLESS STEEL BOLTS, NUTS, WASHERS AND BACKING PLATES. TO BE MANUFACTURED FROM 316 GRADE MATERIAL. COAT THE THREADED SECTIONS OF ALL STAINLESS STEEL BOLTS WITH AN ANTI-SIZE LUBRICANT RECOMMENDED BY THE BOLT MANUFACTURER.
5. VERIFY THE INTEGRITY OF EACH INSULATED FLANGED JOINT AFTER ASSEMBLY.
6. USE SPECIAL HIGH RESISTIVITY (LOW CONDUCTIVITY) GASKET MATERIAL. NOT ALL ELASTOMERS ARE NON CONDUCTIVE.
7. ROUGHEN COATED RAISED FACE FLANGE SURFACES BEFORE ASSEMBLY. PERFORATION OF THE COATING DOES NOT MATTER ON THE CONTACT FLANGE FACES.
8. TIGHTENING SEQUENCE SHOWN FOR AS 4087 FLANGES <DN450, LARGER SIZES TO FOLLOW SIMILAR PRINCIPLE.
9. BOLT TORQUE AS PER MANUFACTURES GUIDELINES.

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	FLANGED JOINTS BOLTING DETAIL	WS 506 DEC 2018

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Project					
BROOKVALE GREEN					
HAVELOCK NORTH					
FOR					
VERMONT STREET					
PARTNERS NO. 4 LIMITED					
Title					
WATER SUPPLY					
STANDARD DETAIL					
PLAN					
Project no.		135041			
Scale		AS SHOWN			
Cad file		135041-460 RG DETAILS			
Drawing no.		C690-3			Rev A



A	SUBSTANTIVE APPLICATION		BB 06/2025
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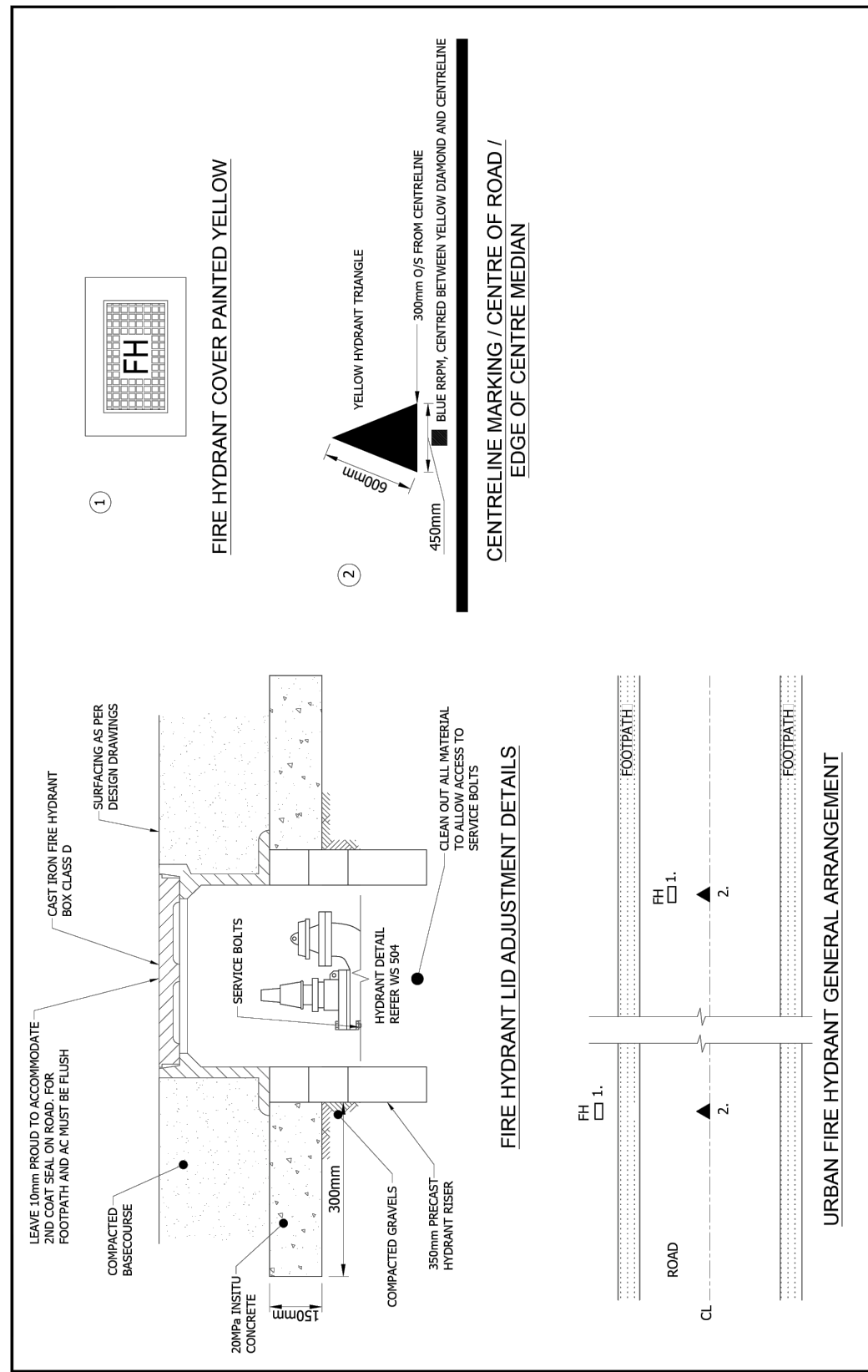


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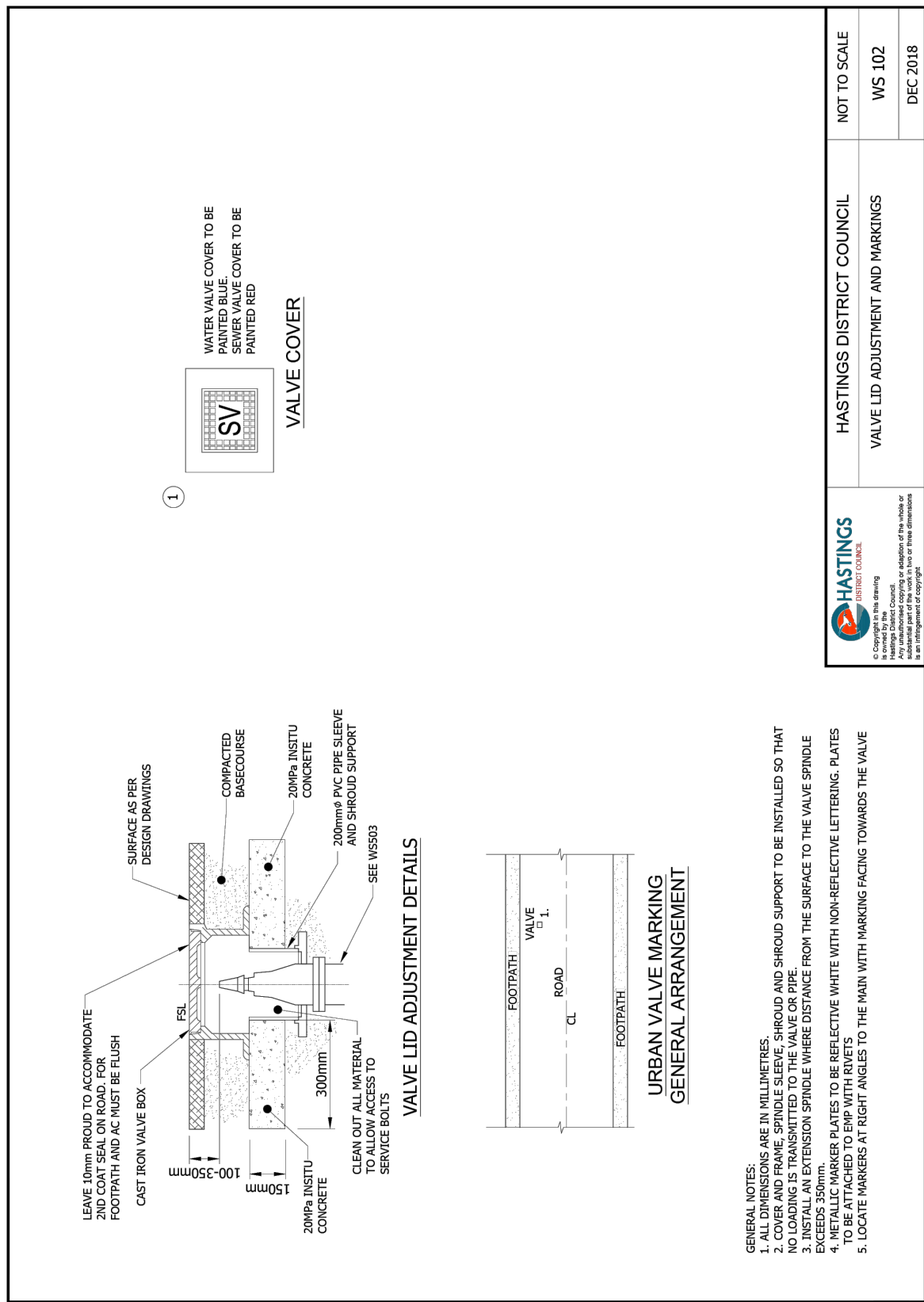
Project

**BROOKVALE GREEN
HAVELOCK NORTH
FOR
VERMONT STREET
PARTNERS NO. 4 LIMITED**

Title		
WATER SUPPLY STANDARD DETAIL PLAN		
Project no.	135041	
Scale	AS SHOWN	
Cad file	135041-460 RG DETAILS	
Drawing no.	C690-4	Rev A



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	FIRE HYDRANT LID ADJUSTMENT AND MARKINGS	WS 101 DEC 2018



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	VALVE LID ADJUSTMENT AND MARKINGS	WS 102
		DEC 2018

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Project			
BROOKVALE GREEN HAVELOCK NORTH FOR VERMONT STREET PARTNERS NO. 4 LIMITED			
Title			
WATER SUPPLY STANDARD DETAIL PLAN			
Project no.	135041		
Scale	AS SHOWN		
Cad file	135041-460 RG DETAILS		
Drawing no.	C690-6	Rev	A