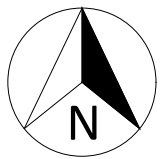


ORIGINAL SIZE: A3  
150mm  
100  
90  
80  
70  
60  
50  
40  
30  
20  
10  
0



INDICATIVE WW DISPOSAL  
RESERVE FIELD (12,074m<sup>2</sup>)  
(SIZED AT 50%).

BOREHOLE  
LOCATION

WWTP  
(INDICATIVE SIZE  
(25x60m)  
AND LOCATION)

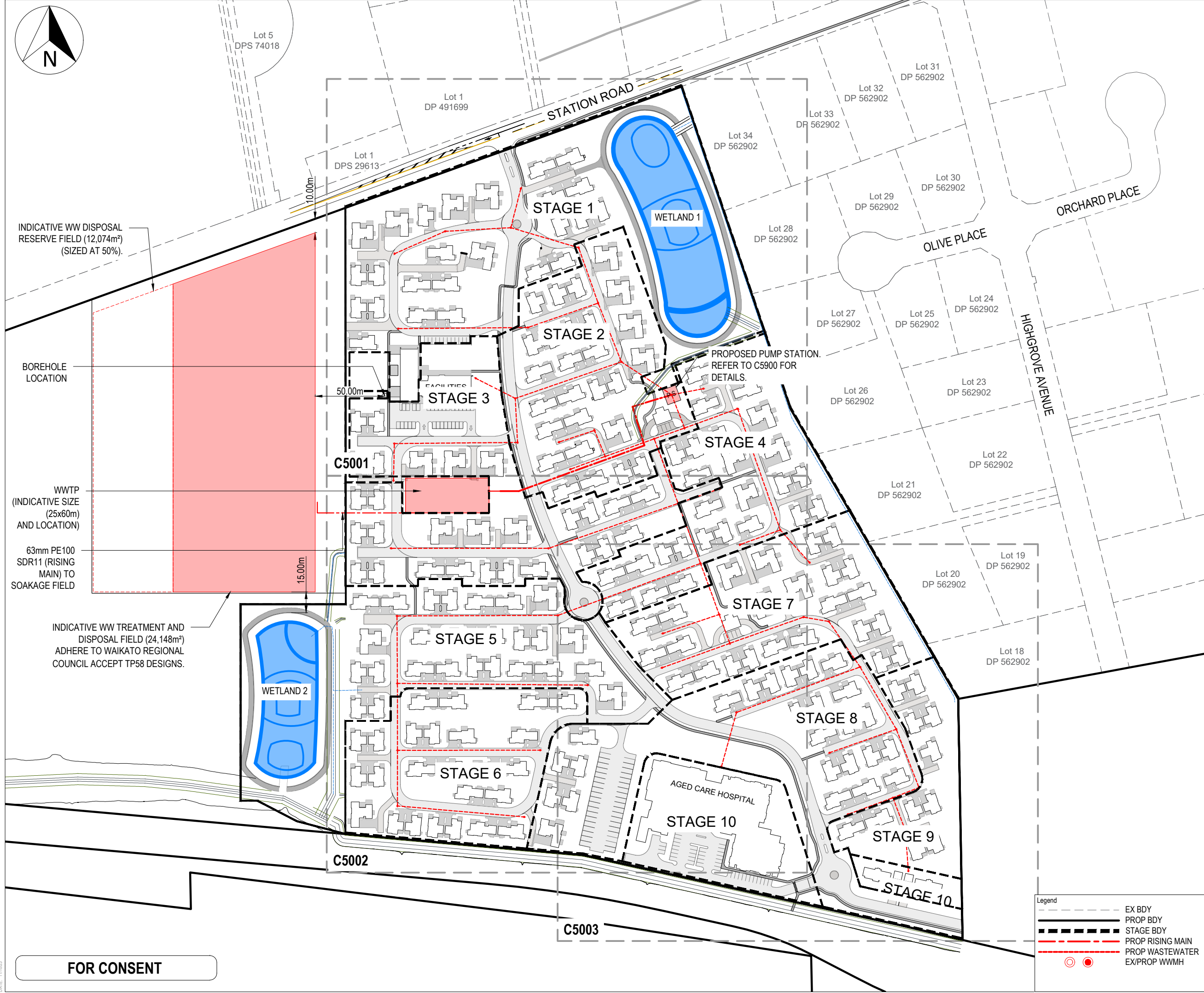
63mm PE100  
SDR11 (RISING  
MAIN) TO  
SOAKAGE FIELD

INDICATIVE WW TREATMENT AND  
DISPOSAL FIELD (24,148m<sup>2</sup>)  
ADHERE TO WAIKATO REGIONAL  
COUNCIL ACCEPT TP58 DESIGNS.

FOR CONSENT

DATE: 11/10/25

FILE PATH: F:\MAVEN\PROJECTS\289001 - STATION ROAD - RV DRAINAGE\DWG\289001 C5000 - WW.DWG



Legend	
	EX BDY
	PROP BDY
	STAGE BDY
	PROP RISING MAIN
	PROP WASTEWATER
	EX/PROP WWMH

- Notes
1. All works to be in accordance with Local Council standards.
  2. Co-ordinates in terms of Mount Eden 2000.
  3. Reduced Levels are in terms of NZVD 2016.
  4. It is the contractors responsibility to locate all services that may be affected by their operations.
  5. The contractor shall comply with all relevant OSH and Health & Safety requirements.
  6. The contractor shall obtain all necessary approval from utility operators before commencing work under or near their services.
  7. Minimum clearances & cover shall be in accordance with Local Council standards.
  8. 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).
  9. Approved hardfill to be used in backfilling of all road crossings and vehicle crossings to Local Council standards.
  10. Heavy duty manhole lids and frames to be used in trafficked areas.
  11. All lines are to be 150mmØ PVC SN16, unless shown otherwise.
  12. 150mmØ pipes that do not terminate in a manhole must be terminated with a 100mmØ on a 150mmØ london junction and blank cap.
  13. All lines to be abandoned shall be sealed at each end. Timing of all sealing to be co-ordinated with Local Council staff.

Rev	Description	By	Date
C	FOR CONSENT	MS	11/25
B	FOR CONSENT	MS	04/25
A	FOR REVIEW	MS	01/25
Survey	#####	#####	
Design	SB		12/2024
Drawn	MS		12/2024
Checked	NP		12/2024



Project  
**ASHBOURNE  
RETIREMENT VILLAGE  
MATAMATA  
FOR  
UNITY DEVELOPMENT LTD**

Title  
**PROPOSED  
WASTEWATER OVERALL  
LAYOUT PLAN OPTION A**

Project no.	289001
Scale	1:2500 @ A3
Cad file	289001 C5000 - WW.DWG
Drawing no.	C5000A
Rev	C



Lot 1  
DPS 29613

STATION ROAD

B1  
1050Ø  
LL=66.97  
IL=65.89 (A5 OUT)

A6  
1050Ø  
LL=67.60  
IL=66.43 (A7 IN)  
IL=66.22 (A5 OUT)

A7  
1050Ø  
LL=68.01  
IL=66.83 (A6 OUT)

A5  
1050Ø  
LL=67.28  
IL=65.73 (B1 IN)  
IL=65.75 (A6 IN)  
IL=65.65 (A4 OUT)

A4  
1050Ø  
LL=66.85  
IL=65.12 (A5 IN)  
IL=65.02 (A3 OUT)

A3  
1050Ø  
LL=67.13  
IL=64.79 (A4 IN)  
IL=65.22 (C1 IN)  
IL=64.71 (A2 OUT)

C2  
1050Ø  
LL=68.04  
IL=66.76 (C1 OUT)

C1  
1050Ø  
LL=67.49  
IL=65.83 (C2 IN)  
IL=65.75 (A3 OUT)

A2  
1050Ø  
LL=67.39  
IL=64.56 (A3 IN)  
IL=64.90 (D1 IN)  
IL=64.47 (A1 OUT)

E1  
1050Ø  
LL=68.33  
IL=67.33 (D1 OUT)

D1  
1050Ø  
LL=67.75  
IL=65.30 (D2 IN)

- NOTES
1. ALL WORKS TO BE IN ACCORDANCE WITH LOCAL COUNCIL STANDARDS.
  2. COORDINATES IN TERMS OF NZ GEODETIC DATUM MT EDEN 2000. LEVELS IN TERMS OF THE NEW ZEALAND VERTICAL DATUM 2016.
  3. IT IS THE CONTRACTORS RESPONSIBILITY TO LOCATE ALL SERVICES THAT MAY BE AFFECTED BY THEIR OPERATIONS.
  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.
  13. PEAK GROUNDWATER LEVELS PER WGA'S MEMO NOVEMBER 2025 EXPECTED IN RANGE OF 0.5m-1.5m BELOW DESIGN SURFACE. ALL WASTEWATER INFRASTRUCTURE BELOW WATER LEVELS TO BE SEALED TO MINIMISE INFILTRATION AND INFLOW INTO THE WASTEWATER SYSTEM.

EX BDY	EX WASTEWATER
PROP BDY	PROP WASTEWATER
EX/PROP WWMH	PR WW LOT CON

A	RESOURCE CONSENT	DIJ	11/2025
Rev	Description	By	Date
Survey	MAVEN	10/2024	
Design	DIJ	11/2025	
Drawn	DIJ	11/2025	
Checked	MS	11/2025	

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Project  
**ASHBOURNE  
RETIREMENT VILLAGE  
MATAMATA  
FOR  
UNITY DEVELOPMENT LTD**

Title  
**PROPOSED  
WASTEWATER DRAINAGE  
PLAN**

Project no.	289001
Scale	1:750 @ A3
Cad file	289001 C5000 - WW.DWG
Drawing no.	C5001
Rev	A

RESOURCE CONSENT





STATION ROAD

Lot 33  
DP 562902

Lot 34  
DP 562902

Lot 28  
DP 562902

Lot 27  
DP 562902

A1  
10500  
LL=67.17

F1  
10500

A2  
10500  
LL=67.39  
IL=64.56 (A3 IN)  
IL=64.90 (D1 IN)  
IL=64.47 (A1 OUT)

A3  
10500  
LL=67.13  
IL=64.79 (A4 IN)  
IL=65.22 (C1 IN)  
IL=64.71 (A2 OUT)

A4  
10500  
LL=66.85  
IL=65.12 (A5 IN)  
IL=65.02 (A3 OUT)

B1  
10500  
LL=66.97  
IL=65.89 (A5 OUT)

C1  
10500  
LL=67.49  
IL=65.83 (C2 IN)  
IL=65.75 (A3 OUT)

D1  
10500  
LL=67.75

RESOURCE CONSENT

IL=65.22 (A2 OUT)

- NOTES
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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.
  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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EX BDY  
PROP BDY  
EX WASTEWATER  
PROP WASTEWATER  
EX/PROP WWMH  
PR WW LOT CON

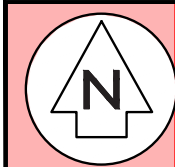
A	RESOURCE CONSENT	DIJ	11/2025
Rev	Description	By	Date
Survey	MAVEN		10/2024
Design	DIJ		11/2025
Drawn	DIJ		11/2025
Checked	MS		11/2025



Project  
**ASHBOURNE  
RETIREMENT VILLAGE  
MATAMATA  
FOR  
UNITY DEVELOPMENT LTD**

Title  
**PROPOSED  
WASTEWATER DRAINAGE  
PLAN**

Project no.	289001
Scale	1:750 @ A3
Cad file	289001 C5000 - WW.DWG
Drawing no.	C5002
Rev	A



50.00m

FACILITIES

E1  
1050Ø  
LL=68.33  
IL=67.33 (D1 OUT)

D1  
1050Ø  
LL=67.75  
IL=65.30 (D2 IN)  
IL=66.20 (E1 IN)  
IL=65.22 (A2 OUT)

C1  
1050Ø  
LL=67.49  
IL=65.83 (C2 IN)  
IL=65.75 (A3 OUT)

1050Ø  
LL=67.39  
IL=64.56 (A3 IN)  
IL=64.90 (D1 IN)  
IL=64.47 (A1 OUT)

D3  
1050Ø  
LL=68.04  
IL=65.92 (D4 IN)  
IL=65.84 (D2 OUT)

D2  
1050Ø  
LL=67.63  
IL=65.50 (D3 IN)  
IL=65.42 (D1 OUT)

H4  
1050Ø  
LL=67.66  
IL=66.60 (H3 OUT)

H3  
1050Ø  
LL=67.56  
IL=66.44 (H4 IN)  
IL=66.36 (H1 OUT)

D4  
1050Ø  
LL=67.83  
IL=66.04 (D3 OUT)

H2  
1050Ø  
LL=67.58  
IL=66.48 (H1 OUT)

G2  
1050Ø  
LL=67.25  
IL=64.19 (G3 IN)  
IL=65.93 (H1 IN)  
IL=64.12 (G1 OUT)

H1  
1050Ø  
LL=67.44  
IL=66.32 (H2 IN)  
IL=66.23 (H3 IN)  
IL=66.15 (G2 OUT)

J3  
1050Ø  
LL=67.60  
IL=66.84 (J2 OUT)

J2  
1050Ø  
LL=67.90  
IL=66.12 (J3 IN)  
IL=65.76 (G3 OUT)

K2  
1050Ø  
LL=67.71  
IL=65.56 (K3 IN)  
IL=65.48 (K1 OUT)

RESOURCE CONSENT

- NOTES
1. ALL WORKS TO BE IN ACCORDANCE WITH LOCAL 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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  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.
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  13. PEAK GROUNDWATER LEVELS PER WGA'S MEMO NOVEMBER 2025 EXPECTED IN RANGE OF 0.5m-1.5m BELOW DESIGN SURFACE. ALL WASTEWATER INFRASTRUCTURE BELOW WATER LEVELS TO BE SEALED TO MINIMISE INFILTRATION AND INFLOW LEVELS TO THE WASTEWATER SYSTEM.

EX BDY	---
PROP BDY	---
EX WASTEWATER	---
PROP WASTEWATER	---
EX/PROP WWMH	○
PR WW LOT CON	+

A	RESOURCE CONSENT	DIJ	11/2025
Rev	Description	By	Date
Survey	MAVEN		10/2024
Design	DIJ		11/2025
Drawn	DIJ		11/2025
Checked	MS		11/2025

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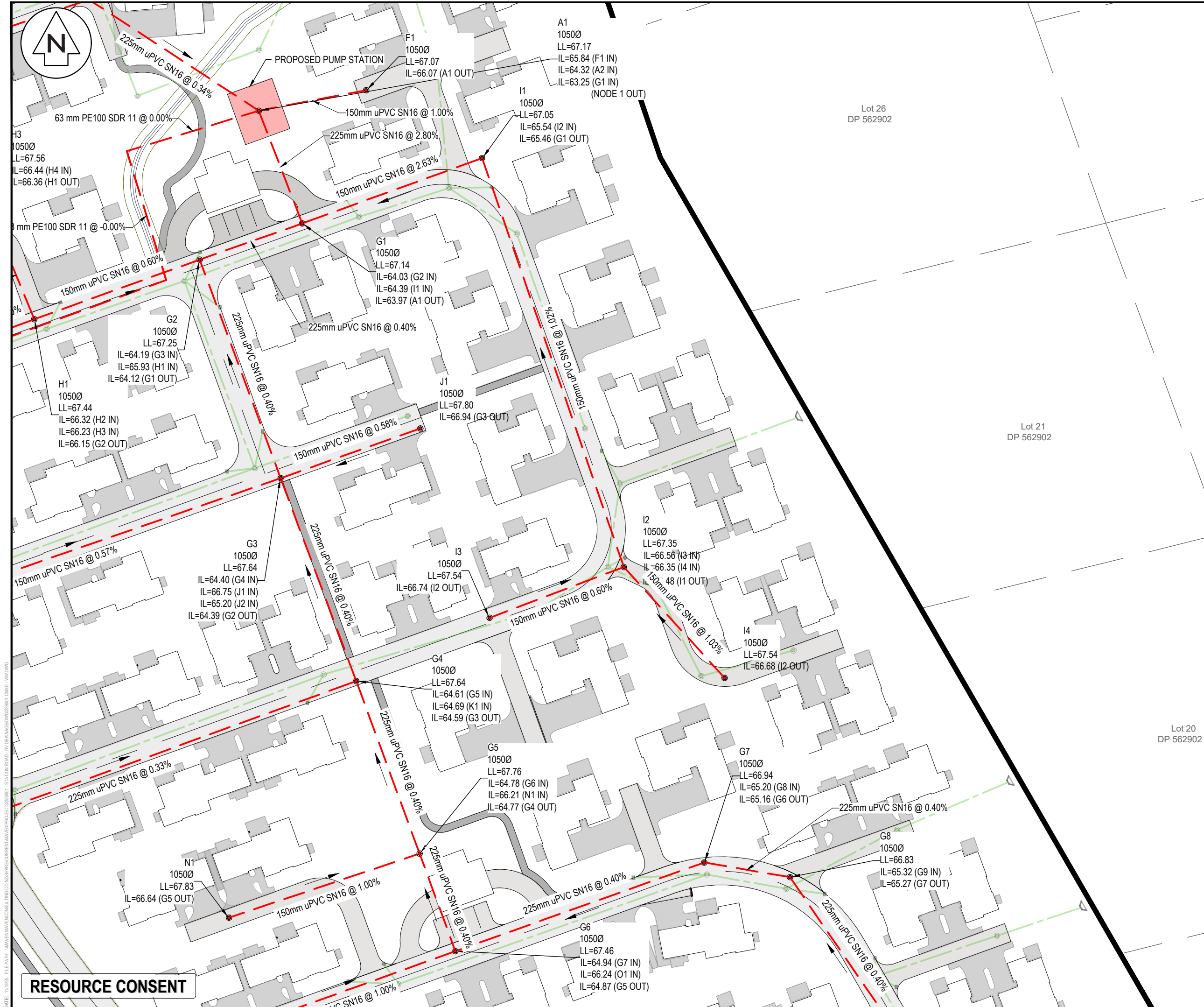
Project  
**ASHBOURNE  
RETIREMENT VILLAGE  
MATAMATA  
FOR  
UNITY DEVELOPMENT LTD**

Title  
**PROPOSED  
WASTEWATER DRAINAGE  
PLAN**

Project no.	289001
Scale	1:750 @ A3
Cad file	289001 C5000 - WW.DWG
Drawing no.	C5003
Rev	A

DATE: 11/18/25 FILE PATH: \\MAVEN\MAVENCONSULTING\CD\SHARED\RETIREMENTVILLAGE\PROJECTS\289001 - STATION ROAD - RV DRAINAGE\DWG\289001\_C5000 - WW.DWG





- NOTES
1. ALL WORKS TO BE IN ACCORDANCE WITH LOCAL COUNCIL STANDARDS.
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  9. ALL LINES ARE TO BE MIN. 150MMØ PVC CLASS SN16 UNLESS SHOWN OTHERWISE.
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EX BDY	EX BDY
PROP BDY	PROP BDY
EX WASTEWATER	EX WASTEWATER
PROP WASTEWATER	PROP WASTEWATER
EX/PROP WWMH	EX/PROP WWMH
PR WW LOT CON	PR WW LOT CON

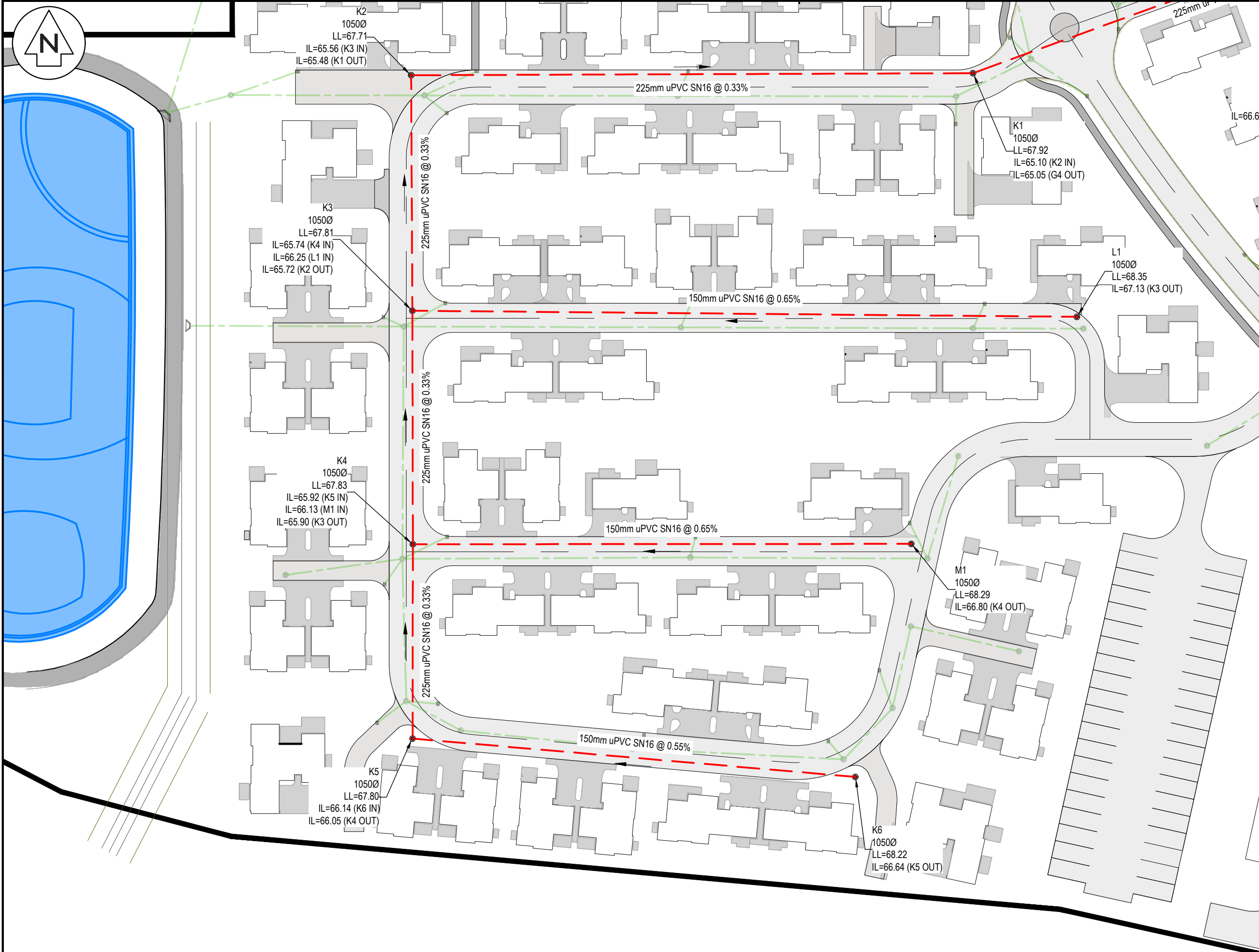
A	RESOURCE CONSENT	DIJ	11/2025
Rev	Description	By	Date
Survey	MAVEN		10/2024
Design	DIJ		11/2025
Drawn	DIJ		11/2025
Checked	MS		11/2025



Project  
**ASHBOURNE  
RETIREMENT VILLAGE  
MATAMATA  
FOR  
UNITY DEVELOPMENT LTD**

Title  
**PROPOSED  
WASTEWATER DRAINAGE  
PLAN**

Project no.	289001
Scale	1:750 @ A3
Cad file	289001 C5000 - WW.DWG
Drawing no.	C5004
Rev	A



NOTES

- ALL WORKS TO BE IN ACCORDANCE WITH LOCAL COUNCIL STANDARDS.
- COORDINATES IN TERMS OF NZ GEODETIC DATUM MT EDEN 2000. LEVELS IN TERMS OF THE NEW ZEALAND VERTICAL DATUM 2016.
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EX BDY

PROF BDY

EX WASTEWATER

PROF WASTEWATER

EX/PROF WWMH

PR WW LOT CON

A	RESOURCE CONSENT	DIJ	11/2025
Rev	Description	By	Date
Survey	MAVEN		10/2024
Design	DIJ		11/2025
Drawn	DIJ		11/2025
Checked	MS		11/2025

M

MAVEN

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Project

**ASHBOURNE  
RETIREMENT VILLAGE  
MATAMATA  
FOR  
UNITY DEVELOPMENT LTD**

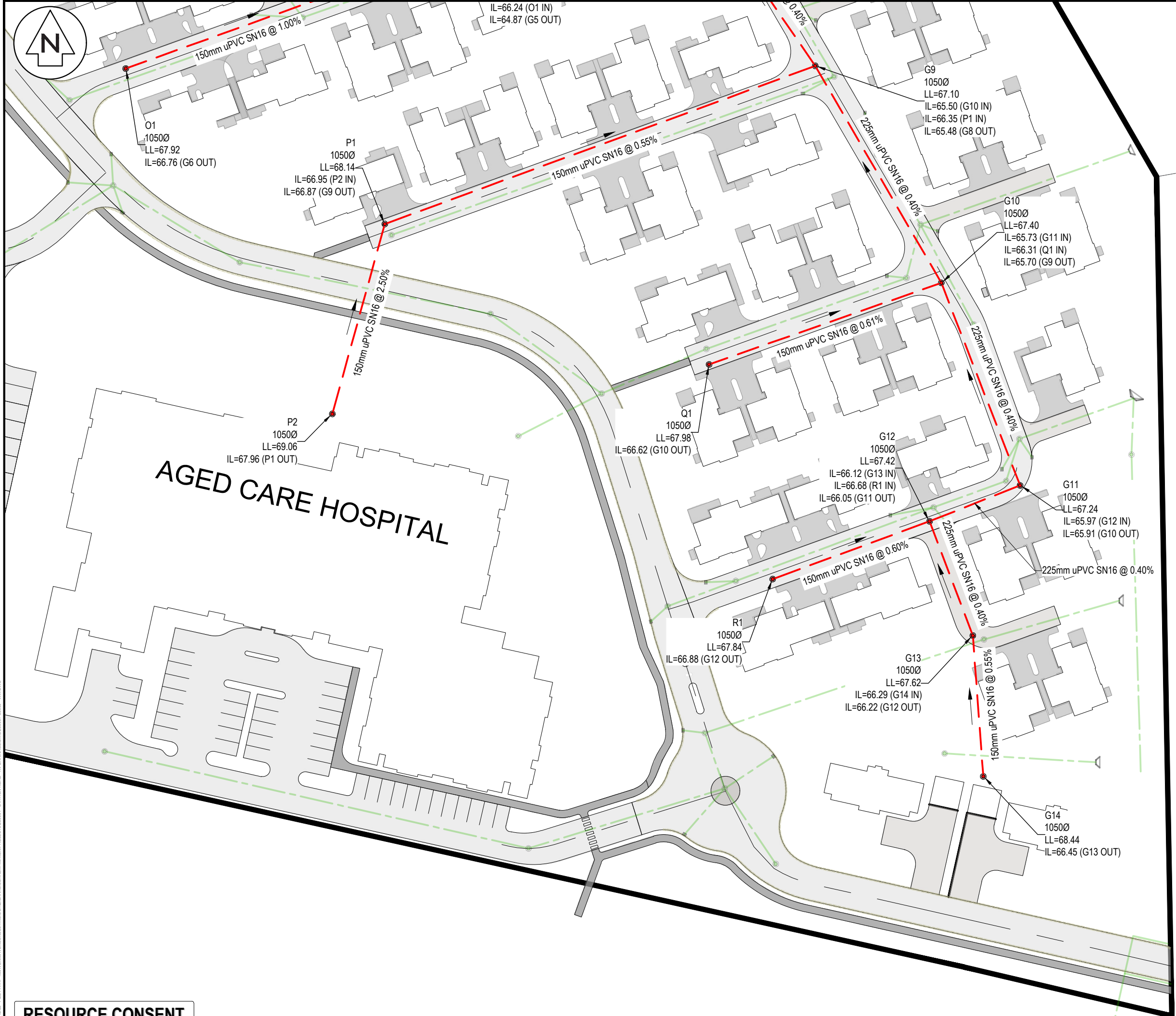
Title

**PROPOSED  
WASTEWATER DRAINAGE  
PLAN**

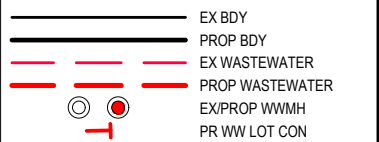
Project no.	289001		
Scale	1:750 @ A3		
Cad file	289001 C5000 - WW.DWG		
Drawing no.	C5005	Rev	<b>A</b>

RESOURCE CONSENT





- NOTES
1. ALL WORKS TO BE IN ACCORDANCE WITH LOCAL COUNCIL STANDARDS.
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  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.
  13. PEAK GROUNDWATER LEVELS PER WGA'S MEMO NOVEMBER 2025 EXPECTED IN RANGE OF 0.5m-1.5m BELOW DESIGN SURFACE. ALL WASTEWATER INFRASTRUCTURE BELOW WATER LEVELS TO BE SEALED TO MINIMISE INFILTRATION AND INFLOW INTO THE WASTEWATER SYSTEM.



A	RESOURCE CONSENT	DIJ	11/2025
Rev	Description	By	Date
		By	Date
Survey	MAVEN		10/2024
Design	DIJ		11/2025
Drawn	DIJ		11/2025
Checked	MS		11/2025



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Auckland 1023

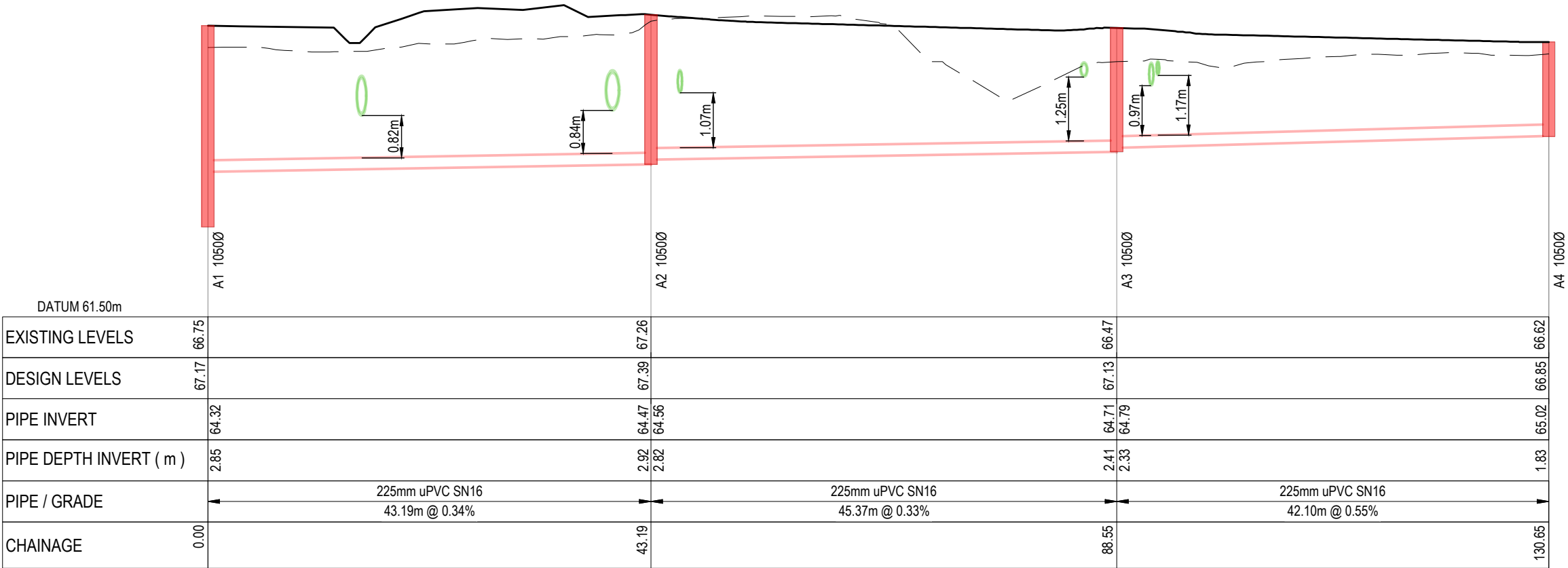
Project  
**ASHBOURNE  
RETIREMENT VILLAGE  
MATAMATA  
FOR  
UNITY DEVELOPMENT LTD**

Title  
**PROPOSED  
WASTEWATER DRAINAGE  
PLAN**

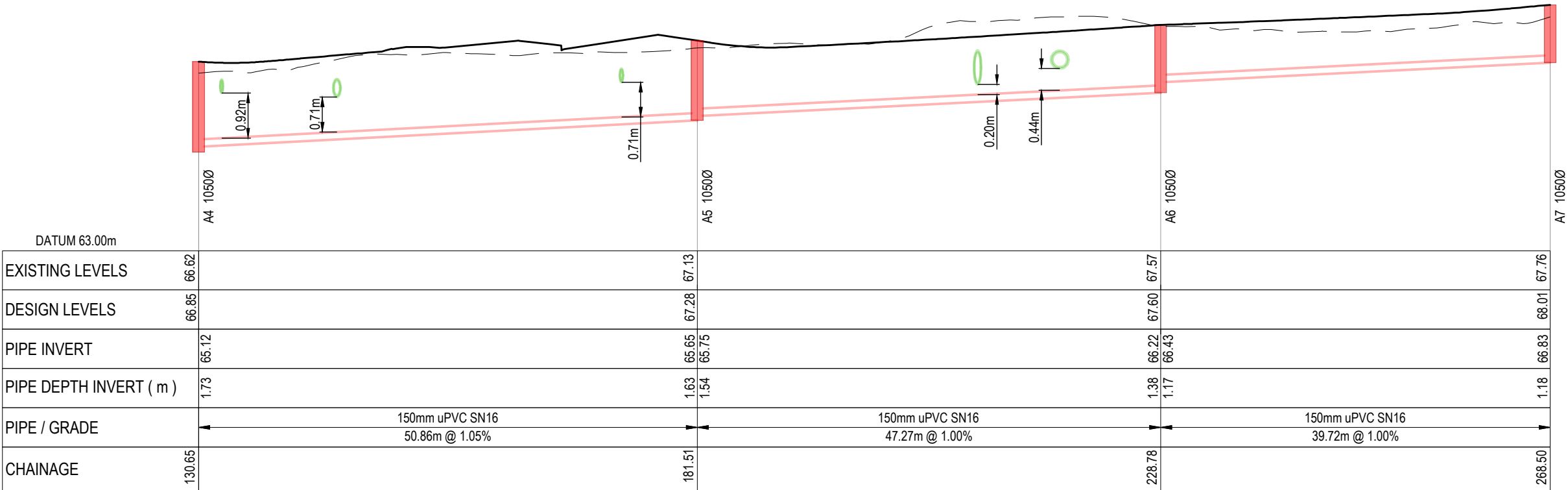
Project no.	289001
Scale	1:750 @ A3
Cad file	289001 C5000 - WW.DWG
Drawing no.	C5006
Rev	<b>A</b>

RESOURCE CONSENT

DATE: 11/18/25 FILE PATH: \\MAVEN\MAVENCONSULTING\CO\NZ\SHARE\CURRENT\MAVEN\PROJECTS\289001 - STATION ROAD - RV\DRAINAGE\DWG\289001\_C5000 - WW.DWG



PR-WW A1 TO A4  
SCALE: HORI 1:500 VERT 1:100



PR-WW A4 TO A7  
SCALE: HORI 1:500 VERT 1:100

RESOURCE CONSENT

- NOTES
1. ALL WORKS TO BE IN ACCORDANCE WITH LOCAL COUNCIL STANDARDS.
  2. COORDINATES IN TERMS OF NZ GEODETIC DATUM MT EDEN 2000. LEVELS IN TERMS OF THE NEW ZEALAND VERTICAL DATUM 2016.
  3. IT IS THE CONTRACTORS RESPONSIBILITY TO LOCATE ALL SERVICES THAT MAY BE AFFECTED BY THEIR OPERATIONS.
  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.
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LEGEND

--- EX GROUND LEVEL  
--- PR GROUND LEVEL  
--- CROSSING PIPE

A	RESOURCE CONSENT	DIJ	11/2025
Rev	Description	By	Date
		By	Date
Survey	MAVEN		10/2024
Design	DIJ		11/2025
Drawn	DIJ		11/2025
Checked	MS		11/2025



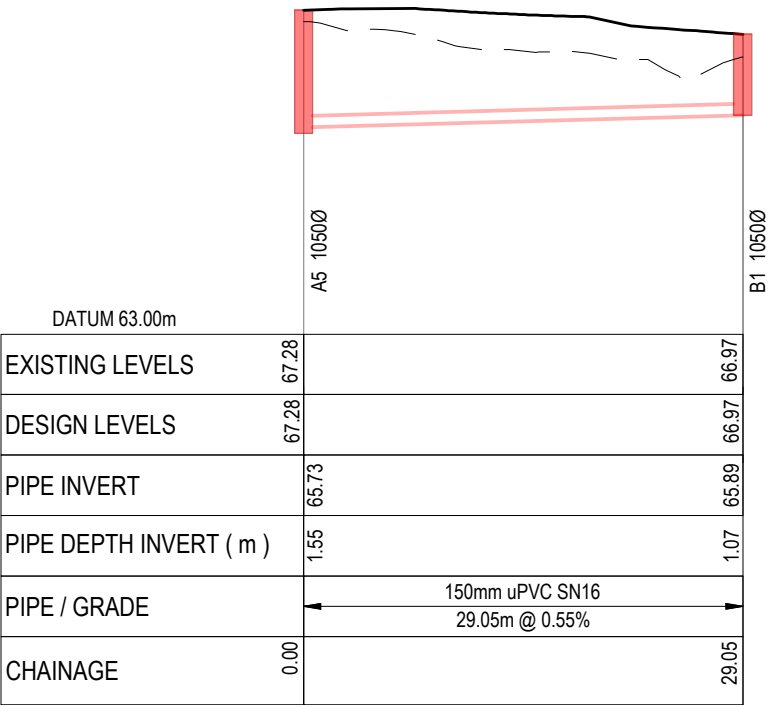
Project  
**ASHBOURNE  
RETIREMENT VILLAGE  
MATAMATA  
FOR  
UNITY DEVELOPMENT LTD**

Title  
**PROPOSED  
WASTEWATER  
LONGSECTION PLAN**

Project no.	289001
Scale	1:500 @ A3
Cad file	289001 C5000 - WW.DWG
Drawing no.	C5200
Rev	A



DATE: 11/18/25 FILE PATH: \\MAVEN\MAVEN\CONSULTING\CO\NZ\SHARE\CURRENT\MAVEN\PROJECTS\289001 - STATION ROAD - RV\DRAINAGE\DWG\289001 C5000 - WW.DWG



PR-WW A5 TO B1  
SCALE: HORI 1:500 VERT 1:100

RESOURCE CONSENT

- NOTES
1. ALL WORKS TO BE IN ACCORDANCE WITH LOCAL 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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  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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  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.
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LEGEND

— — — — — EX GROUND LEVEL

— — — — — PR GROUND LEVEL

— — — — — CROSSING PIPE

A	RESOURCE CONSENT	DIJ	11/2025
Rev	Description	By	Date
	By	Date	
Survey	MAVEN	10/2024	
Design	DIJ	11/2025	
Drawn	DIJ	11/2025	
Checked	MS	11/2025	

M

MAVEN

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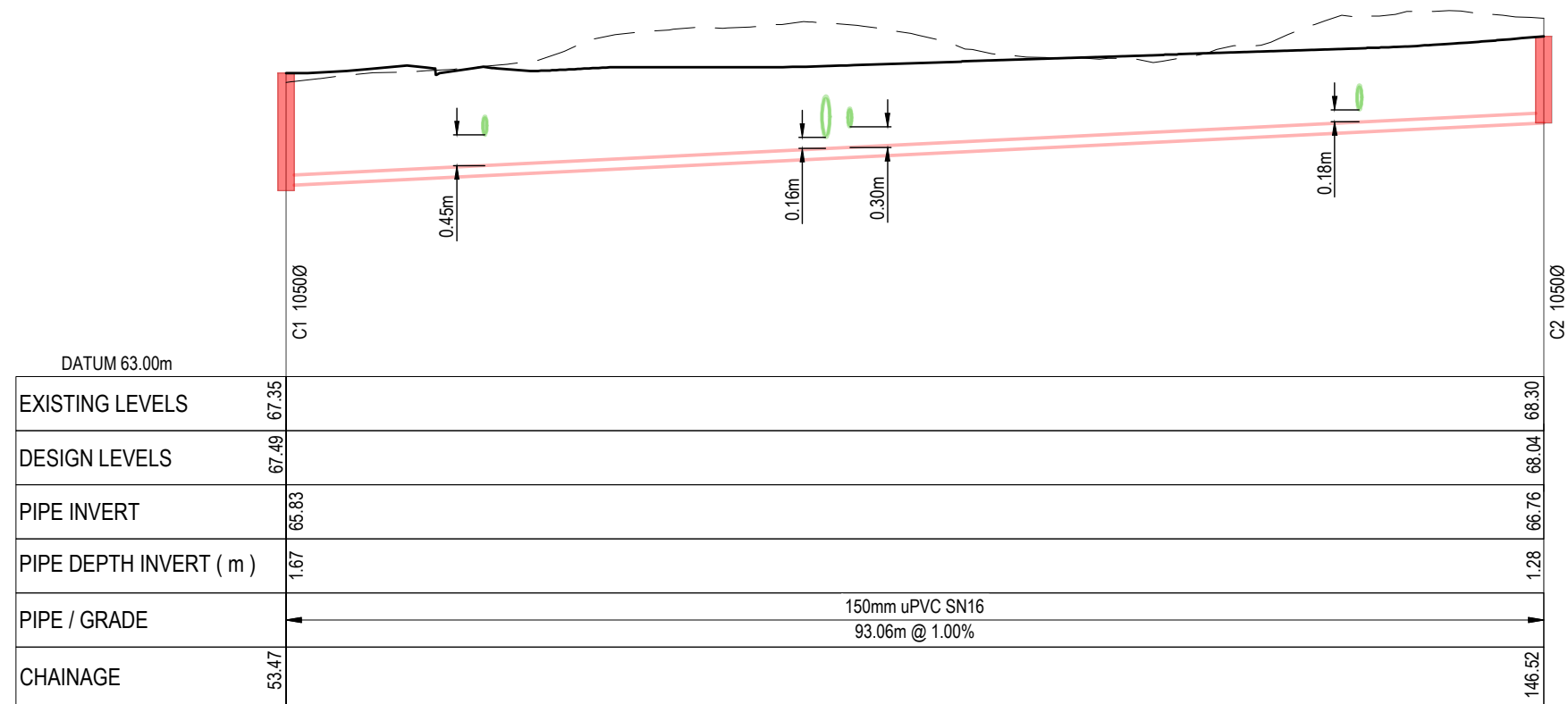
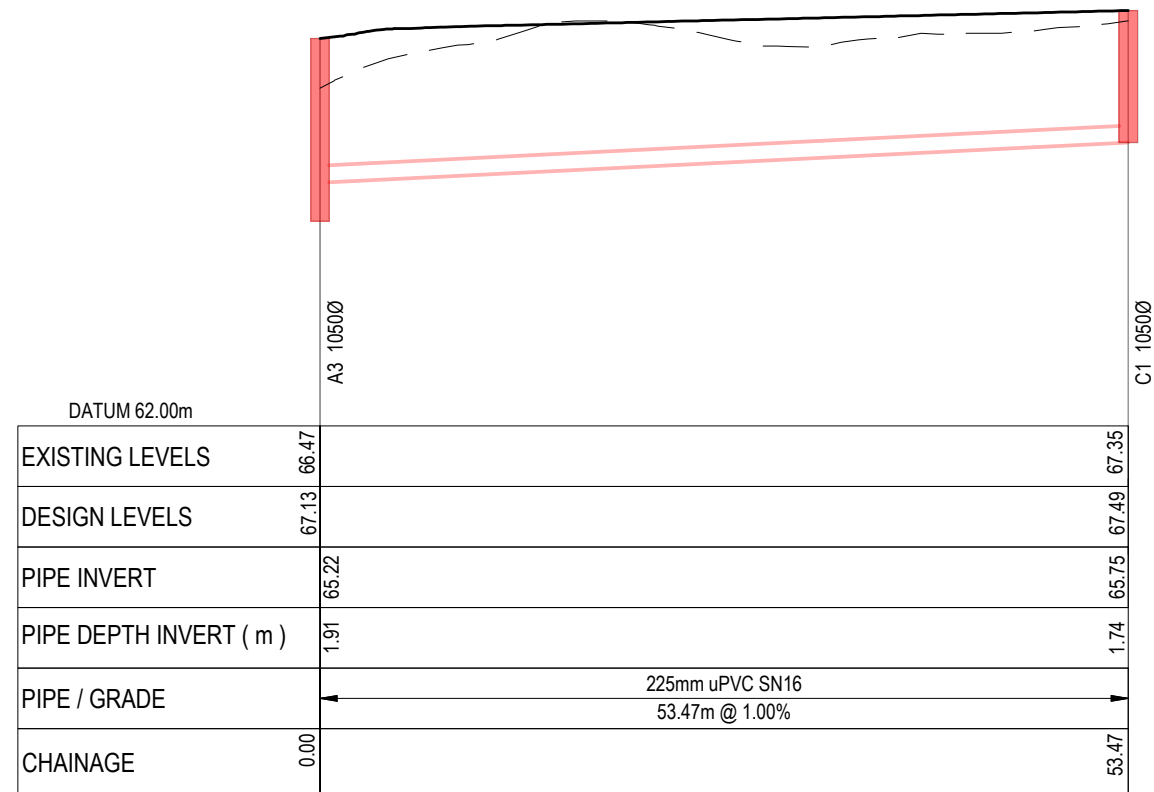
Project

**ASHBOURNE  
RETIREMENT VILLAGE  
MATAMATA  
FOR  
UNITY DEVELOPMENT LTD**

Title

**PROPOSED  
WASTEWATER  
LONGSECTION PLAN**

Project no.	289001		
Scale	1:500 @ A3		
Cad file	289001 C5000 - WW.DWG		
Drawing no.	C5201	Rev	A



## RESOURCE CONSENT

- NOTES
1. ALL WORKS TO BE IN ACCORDANCE WITH LOCAL 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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  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 1500MM 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.
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LEGEND

--- EX GROUND LEVEL

PR GROUND LEVEL

CROSSING PIPE

A	RESOURCE CONSENT	DIJ	11/2025
Rev	Description	By	Date
	By	Date	
Survey	MAVEN	10/2024	
Design	DIJ	11/2025	
Drawn	DIJ	11/2025	
Checked	MS	11/2025	



Project  
**ASHBOURNE  
RETIREMENT VILLAGE  
MATAMATA  
FOR  
UNITY DEVELOPMENT LTD**

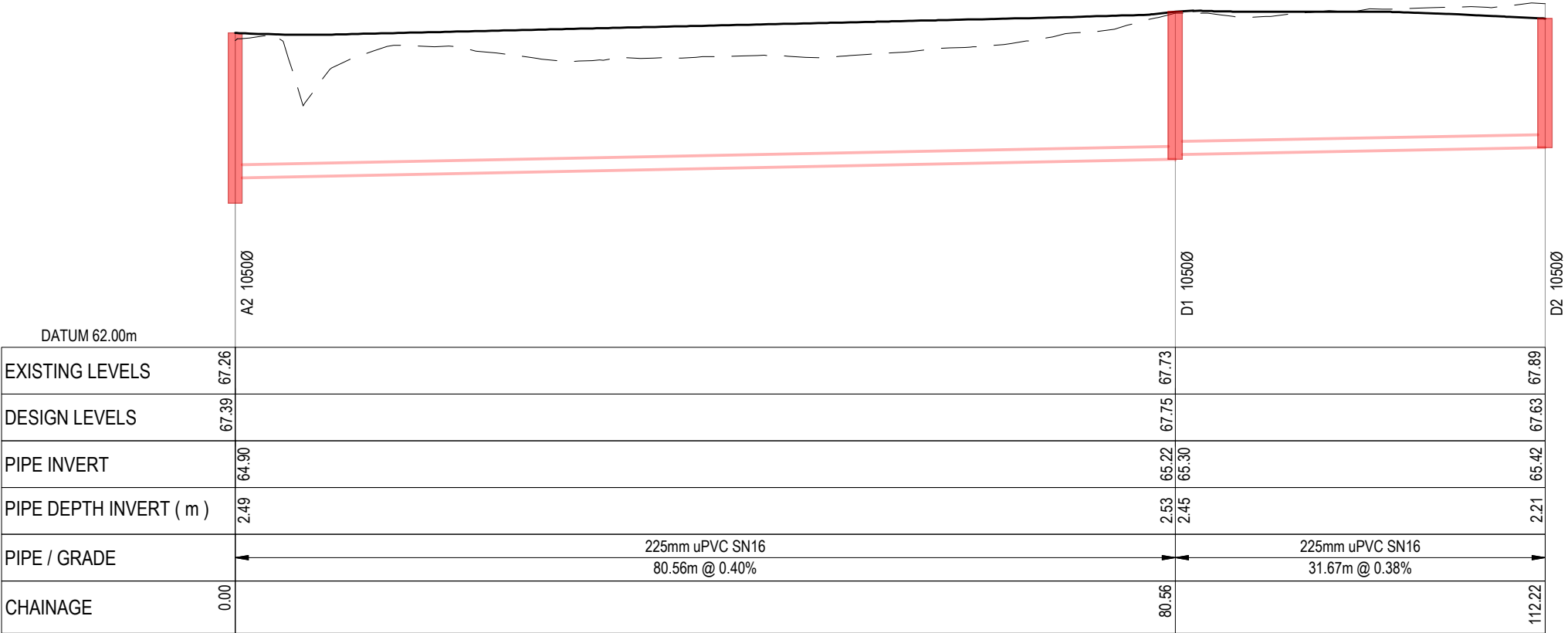
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**PROPOSED  
WASTEWATER  
LONGSECTION PLAN**

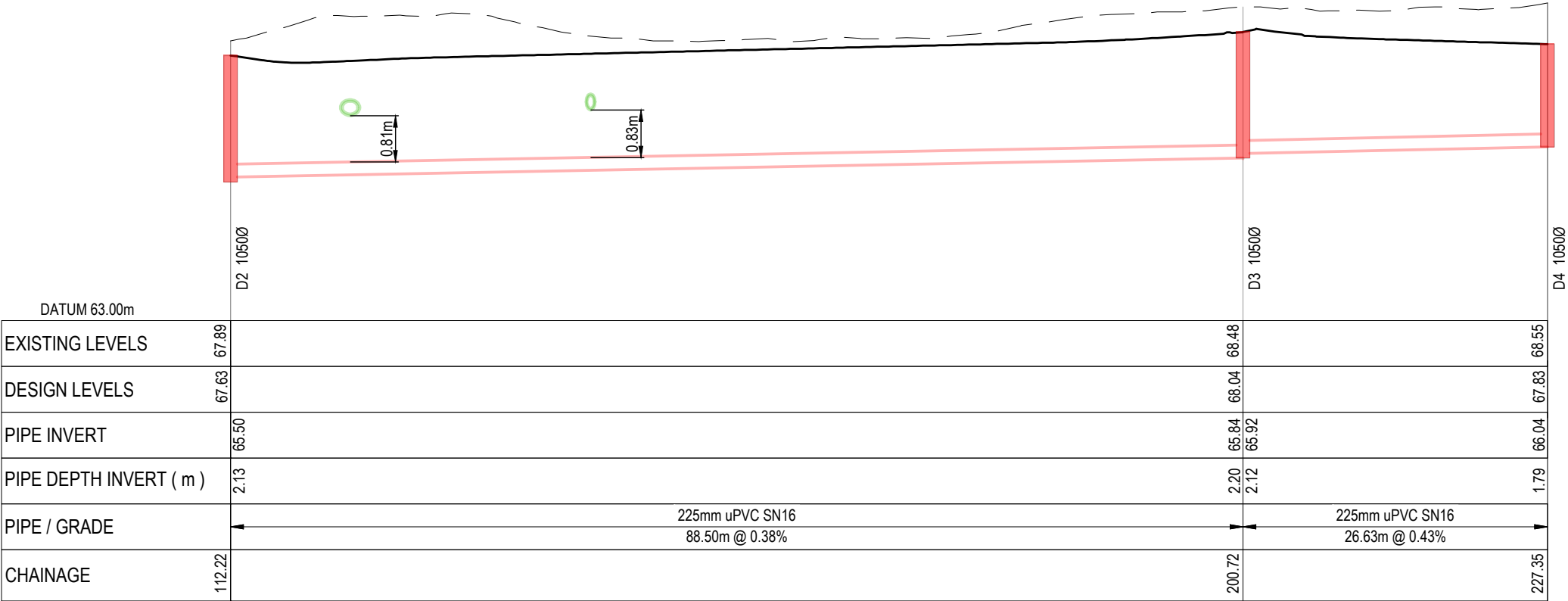
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Scale	1:500 @ A3		
Cad file	289001 C5000 - WW.DWG		
Drawing no.	C5202	Rev	<b>A</b>



DATE: 11/18/25 FILE PATH: \\MAVEN\MAVENCONSULTING\CO\NZ\SHARE\CURRENT\MAVEN\PROJECTS\289001 - STATION ROAD - RV\DRAINAGE\DWG\289001\_C5000 - WW\DWG



PR-WW A2 TO D2  
SCALE: HORI 1:500 VERT 1:100



PR-WW D2 TO D4  
SCALE: HORI 1:500 VERT 1:100

RESOURCE CONSENT

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

--- EX GROUND LEVEL

--- PR GROUND LEVEL

--- CROSSING PIPE

A	RESOURCE CONSENT	DIJ	11/2025
Rev	Description	By	Date
		By	Date
Survey	MAVEN		10/2024
Design	DIJ		11/2025
Drawn	DIJ		11/2025
Checked	MS		11/2025



Project

**ASHBOURNE**

**RETIREMENT VILLAGE**

**MATAMATA**

**FOR**

**UNITY DEVELOPMENT LTD**

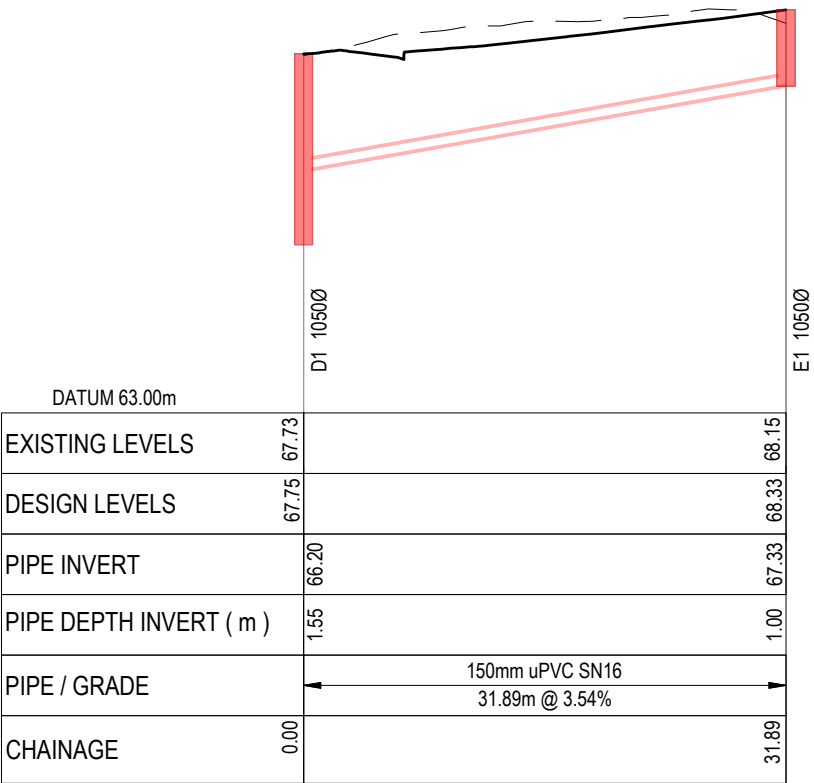
Title

**PROPOSED**

**WASTEWATER**

**LONGSECTION PLAN**

Project no.	289001		
Scale	1:500 @ A3		
Cad file	289001 C5000 - WW.DWG		
Drawing no.	C5203	Rev	<b>A</b>



PR-WW D1 TO E1  
SCALE: HORI 1:500 VERT 1:100

- NOTES
1. ALL WORKS TO BE IN ACCORDANCE WITH LOCAL COUNCIL STANDARDS.
  2. COORDINATES IN TERMS OF NZ GEODETIC DATUM MT EDEN 2000. LEVELS IN TERMS OF THE NEW ZEALAND VERTICAL DATUM 2016.
  3. IT IS THE CONTRACTORS RESPONSIBILITY TO LOCATE ALL SERVICES THAT MAY BE AFFECTED BY THEIR OPERATIONS.
  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.
  13. PEAK GROUNDWATER LEVELS PER WGA'S MEMO NOVEMBER 2025 EXPECTED IN RANGE OF 0.5m-1.5m BELOW DESIGN SURFACE. ALL WASTEWATER INFRASTRUCTURE BELOW WATER LEVELS TO BE SEALED TO MINIMISE INFILTRATION AND INFLOW INTO THE WASTEWATER SYSTEM.

LEGEND

— — — — — EX GROUND LEVEL

— — — — — PR GROUND LEVEL

— — — — — CROSSING PIPE

A	RESOURCE CONSENT	DIJ	11/2025
Rev	Description	By	Date
	By	Date	
Survey	MAVEN	10/2024	
Design	DIJ	11/2025	
Drawn	DIJ	11/2025	
Checked	MS	11/2025	

M

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Auckland 1023

Project

**ASHBOURNE  
RETIREMENT VILLAGE  
MATAMATA  
FOR  
UNITY DEVELOPMENT LTD**

Title

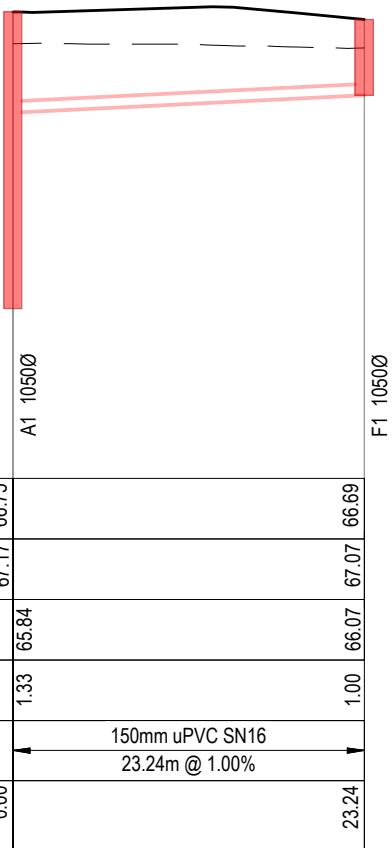
**PROPOSED  
WASTEWATER  
LONGSECTION PLAN**

Project no.	289001		
Scale	1:500 @ A3		
Cad file	289001 C5000 - WW.DWG		
Drawing no.	C5204	Rev	A

RESOURCE CONSENT



DATE: 11/18/25 FILE PATH: \\MAVEN\MAVEN\CONSULTING\CO\NZ\SHARE\CURRENT\MAVEN\PROJECTS\289001 - STATION ROAD - RV\DRAINAGE\DWG\289001 C5000 - WW.DWG



PR-WW A1 TO F1  
SCALE: HORI 1:500 VERT 1:100

RESOURCE CONSENT

- NOTES
1. ALL WORKS TO BE IN ACCORDANCE WITH LOCAL 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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LEGEND

— — — — — EX GROUND LEVEL

— — — — — PR GROUND LEVEL

— — — — — CROSSING PIPE

A	RESOURCE CONSENT	DIJ	11/2025
Rev	Description	By	Date
	By	Date	
Survey	MAVEN	10/2024	
Design	DIJ	11/2025	
Drawn	DIJ	11/2025	
Checked	MS	11/2025	

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Auckland 1023

Project

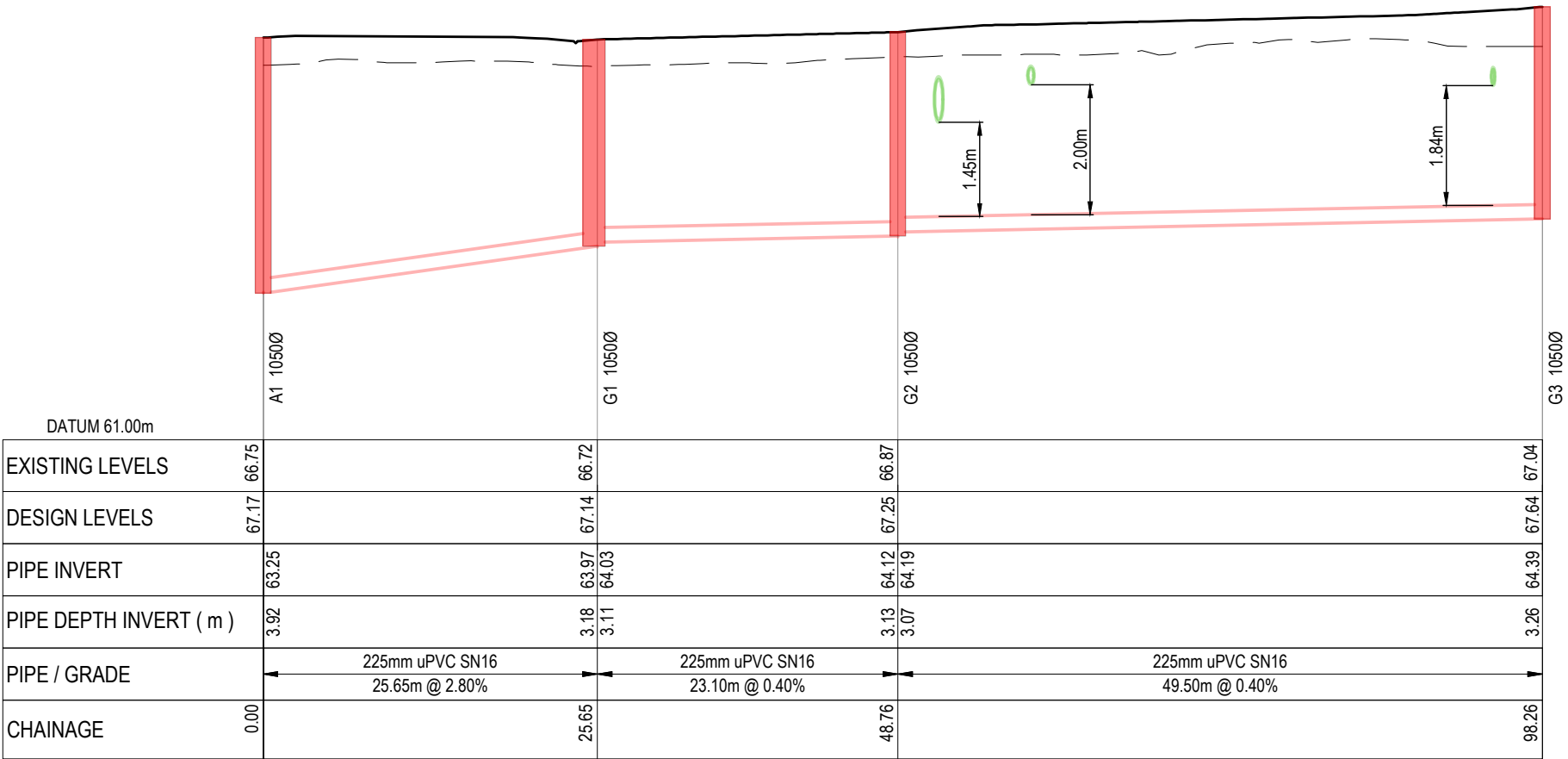
**ASHBOURNE  
RETIREMENT VILLAGE  
MATAMATA  
FOR  
UNITY DEVELOPMENT LTD**

Title

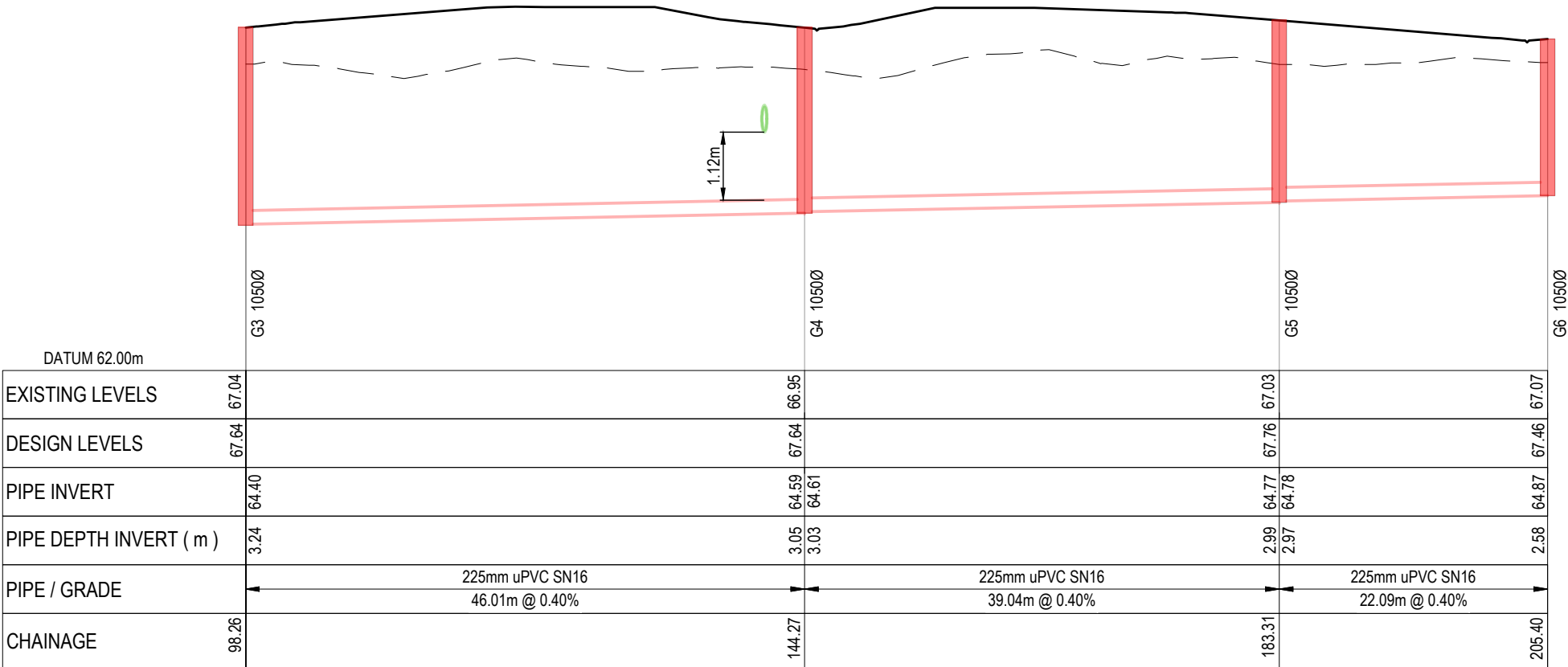
**PROPOSED  
WASTEWATER  
LONGSECTION PLAN**

Project no.	289001		
Scale	1:500 @ A3		
Cad file	289001 C5000 - WW.DWG		
Drawing no.	C5205	Rev	<b>A</b>

DATE: 11/18/25 FILE PATH: \\MAVEN\MAVEN\CONSULTING\CO\2\SHARE\CURRENT\MAVEN\PROJECTS\289001 - STATION ROAD - RV\DRAINAGE\DWG\289001\_C5200 - WW.DWG



PR-WW A1 TO G3  
SCALE: HORI 1:500 VERT 1:100



PR-WW G3 TO G6  
SCALE: HORI 1:500 VERT 1:100

RESOURCE CONSENT

- NOTES
1. ALL WORKS TO BE IN ACCORDANCE WITH LOCAL COUNCIL STANDARDS.
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  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.
  13. PEAK GROUNDWATER LEVELS PER WGA'S MEMO NOVEMBER 2025 EXPECTED IN RANGE OF 0.5m-1.5m BELOW DESIGN SURFACE. ALL WASTEWATER INFRASTRUCTURE BELOW WATER LEVELS TO BE SEALED TO MINIMISE INFILTRATION AND INFLOW INTO THE WASTEWATER SYSTEM.

LEGEND

--- EX GROUND LEVEL

--- PR GROUND LEVEL

--- CROSSING PIPE

A	RESOURCE CONSENT	DIJ	11/2025
Rev	Description	By	Date
		By	Date
Survey	MAVEN		10/2024
Design	DIJ		11/2025
Drawn	DIJ		11/2025
Checked	MS		11/2025



Project

**ASHBOURNE**

**RETIREMENT VILLAGE**

**MATAMATA**

**FOR**

**UNITY DEVELOPMENT LTD**

Title

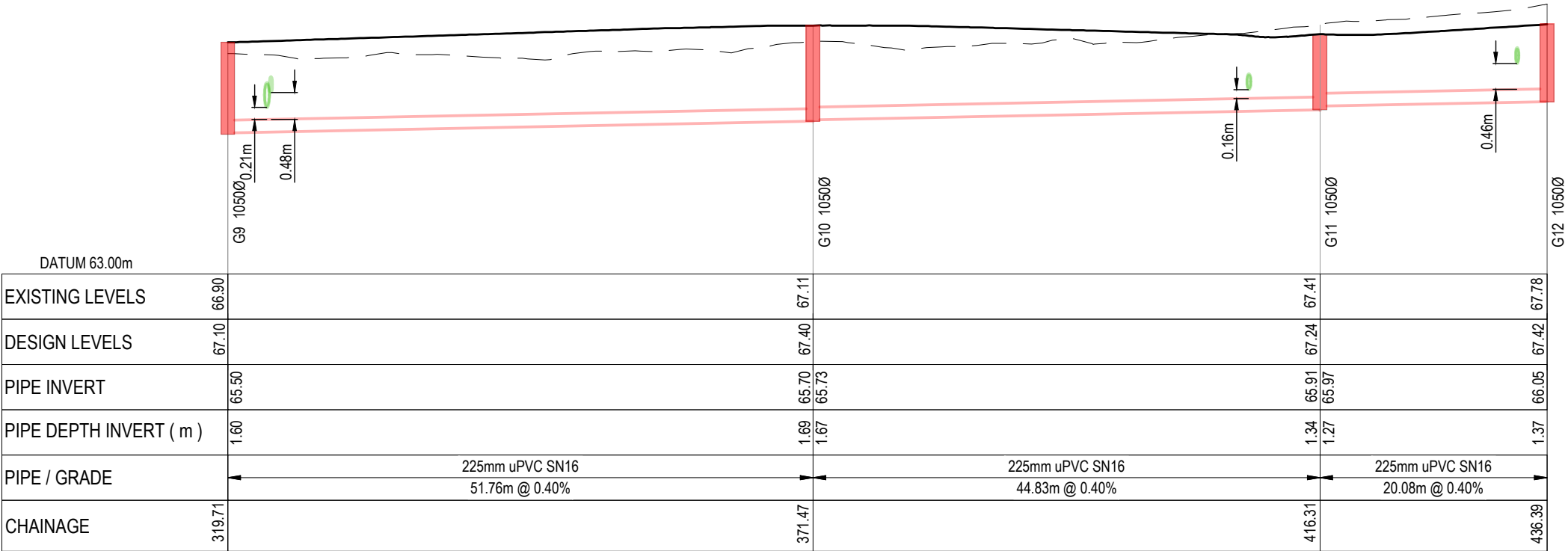
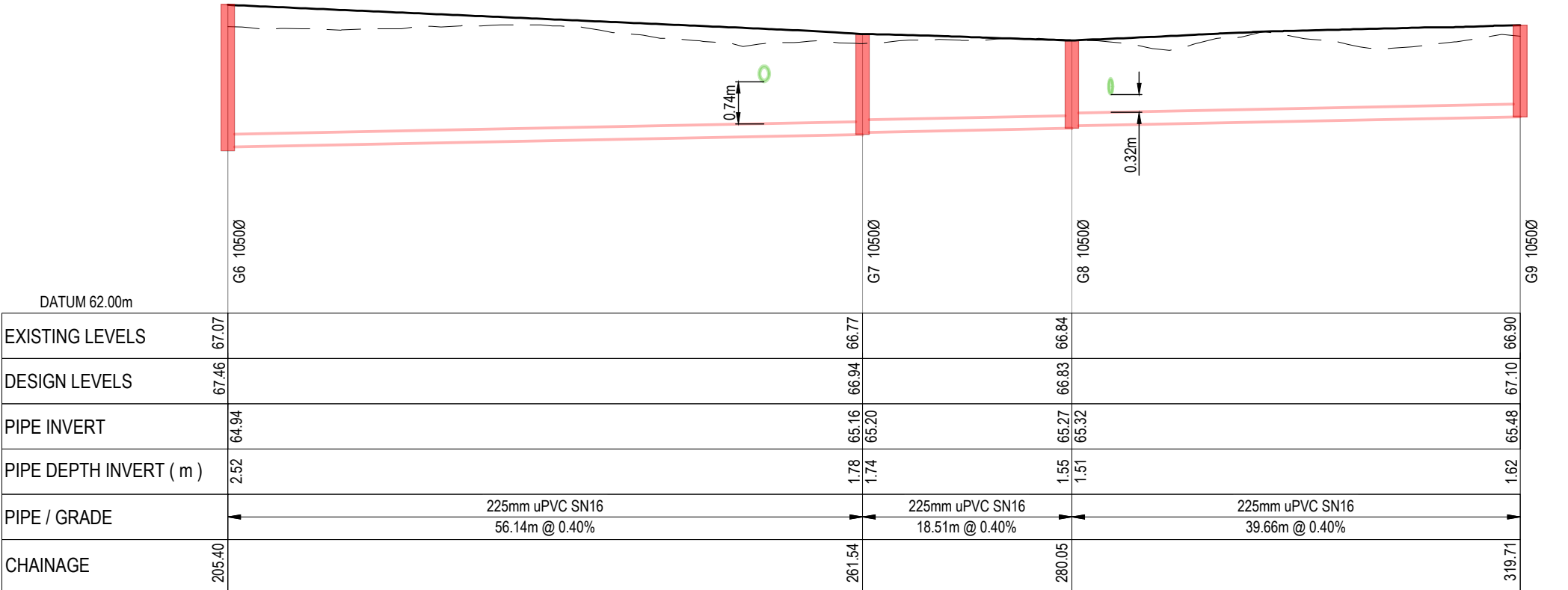
**PROPOSED**

**WASTEWATER**

**LONGSECTION PLAN**

Project no.	289001		
Scale	1:500 @ A3		
Cad file	289001 C5000 - WW.DWG		
Drawing no.	C5206	Rev	<b>A</b>

DATE: 11/18/25 FILE PATH: \\MAVEN\MAVENCONSULTING\CO\NZ\SHARE\CURRENT\MAVEN\PROJECTS\289001 - STATION ROAD - RV\DRAINAGE\DWG\289001\_C5000 - WW.DWG



RESOURCE CONSENT

- NOTES
1. ALL WORKS TO BE IN ACCORDANCE WITH LOCAL COUNCIL STANDARDS.
  2. COORDINATES IN TERMS OF NZ GEODETIC DATUM MT EDEN 2000. LEVELS IN TERMS OF THE NEW ZEALAND VERTICAL DATUM 2016.
  3. IT IS THE CONTRACTORS RESPONSIBILITY TO LOCATE ALL SERVICES THAT MAY BE AFFECTED BY THEIR OPERATIONS.
  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.
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LEGEND

--- EX GROUND LEVEL  
--- PR GROUND LEVEL  
--- CROSSING PIPE

A	RESOURCE CONSENT	DIJ	11/2025
Rev	Description	By	Date
		By	Date
Survey	MAVEN		10/2024
Design	DIJ		11/2025
Drawn	DIJ		11/2025
Checked	MS		11/2025

M

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Project

**ASHBOURNE  
RETIREMENT VILLAGE  
MATAMATA  
FOR  
UNITY DEVELOPMENT LTD**

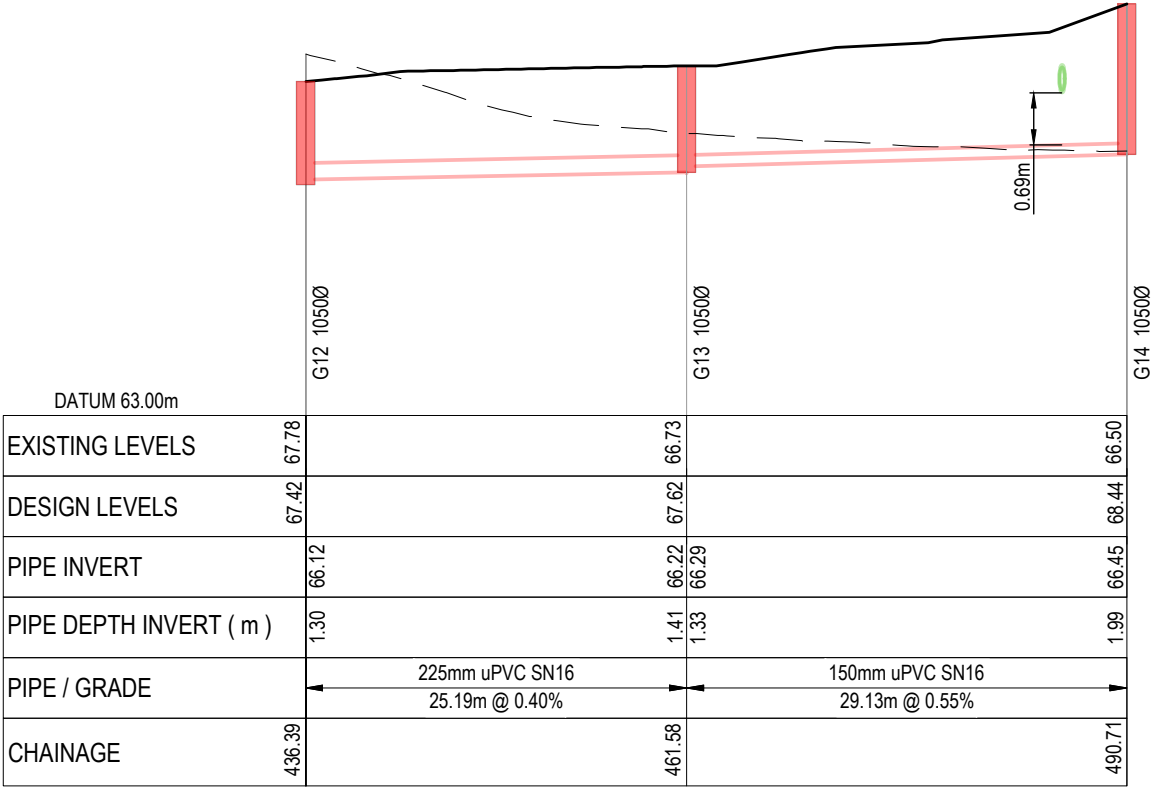
Title

**PROPOSED  
WASTEWATER  
LONGSECTION PLAN**

Project no.	289001		
Scale	1:500 @ A3		
Cad file	289001 C5000 - WW.DWG		
Drawing no.	C5207	Rev	<b>A</b>



DATE: 11/18/25 FILE PATH: \\MAVEN\MAVEN\CONSULTING\CO\NZ\SHARE\CURRENT\MAVEN\PROJECTS\289001 - STATION ROAD - RV DRAINAGE\DWG\289001\_C5000 - WW.DWG



PR-WW G12 TO G14  
SCALE: HORI 1:500 VERT 1:100

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

— — — — — EX GROUND LEVEL

— — — — — PR GROUND LEVEL

0 0 CROSSING PIPE

A	RESOURCE CONSENT	DIJ	11/2025
Rev	Description	By	Date
	By	Date	
Survey	MAVEN	10/2024	
Design	DIJ	11/2025	
Drawn	DIJ	11/2025	
Checked	MS	11/2025	

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Auckland 1023

Project

**ASHBOURNE  
RETIREMENT VILLAGE  
MATAMATA  
FOR  
UNITY DEVELOPMENT LTD**

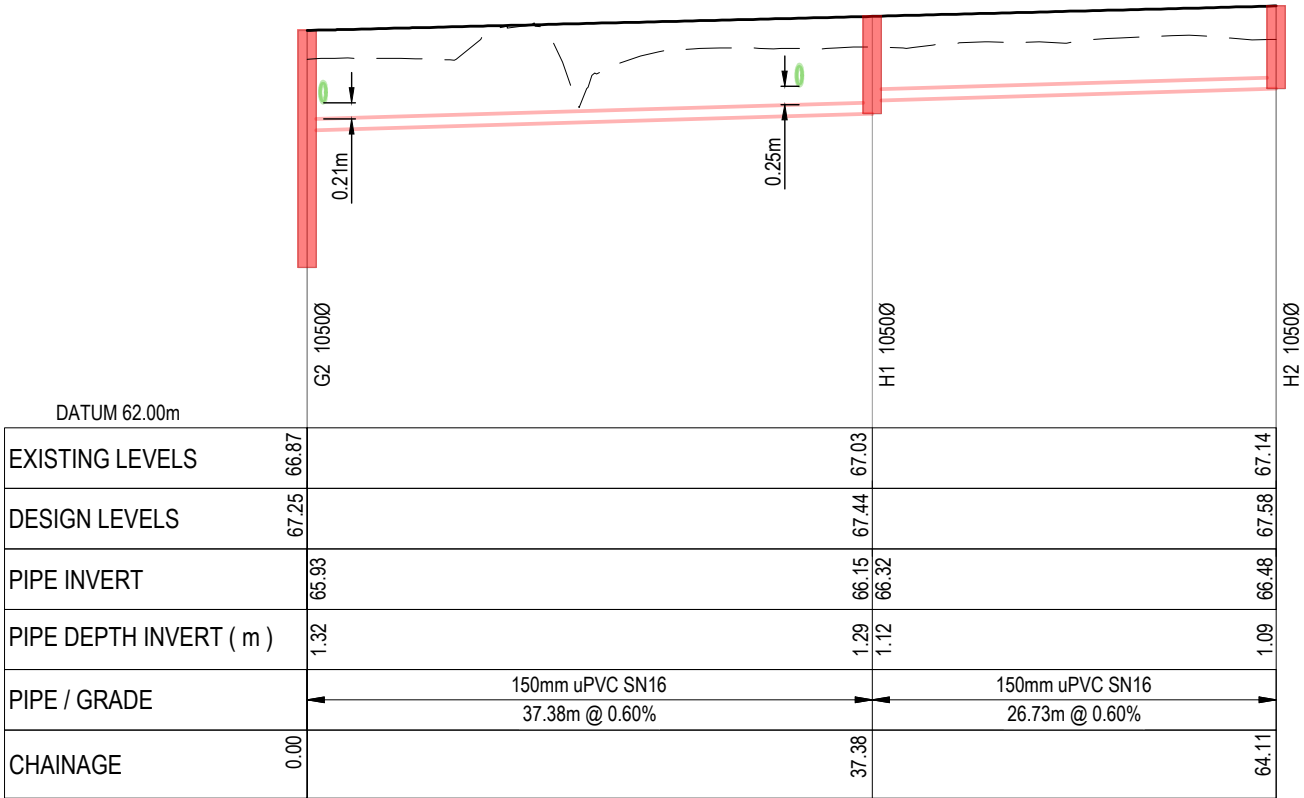
Title

**PROPOSED  
WASTEWATER  
LONGSECTION PLAN**

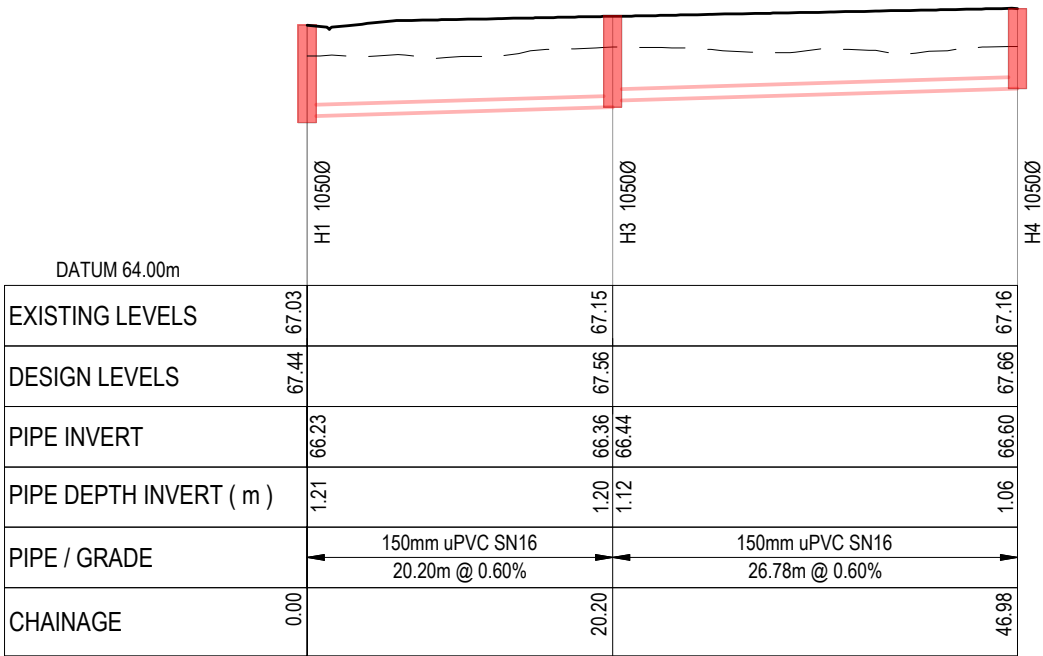
Project no.	289001		
Scale	1:500 @ A3		
Cad file	289001 C5000 - WW.DWG		
Drawing no.	C5208	Rev	<b>A</b>

RESOURCE CONSENT

DATE: 11/18/25 FILE PATH: \\MAVEN\MAVENCONSULTING\CO\NZ\SHARE\CURRENT\MAVEN\PROJECTS\289001 - STATION ROAD - RV\DRAINAGE\DWG\289001\_C5000 - WW.DWG



PR-WW G2 TO H2  
SCALE: HORI 1:500 VERT 1:100



PR-WW H1 TO H2  
SCALE: HORI 1:500 VERT 1:100

RESOURCE CONSENT

- NOTES
1. ALL WORKS TO BE IN ACCORDANCE WITH LOCAL 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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LEGEND

--- EX GROUND LEVEL  
--- PR GROUND LEVEL  
CROSSING PIPE

A	RESOURCE CONSENT	DIJ	11/2025
Rev	Description	By	Date
		By	Date
Survey	MAVEN		10/2024
Design	DIJ		11/2025
Drawn	DIJ		11/2025
Checked	MS		11/2025

M

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Project

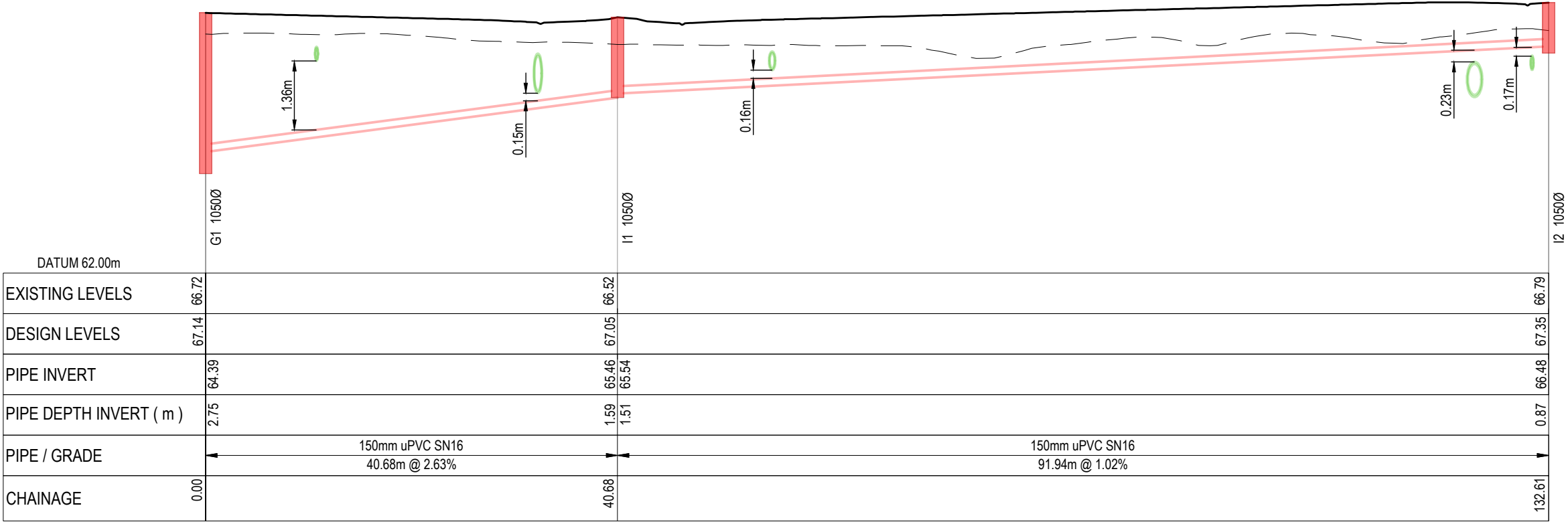
**ASHBOURNE  
RETIREMENT VILLAGE  
MATAMATA  
FOR  
UNITY DEVELOPMENT LTD**

Title

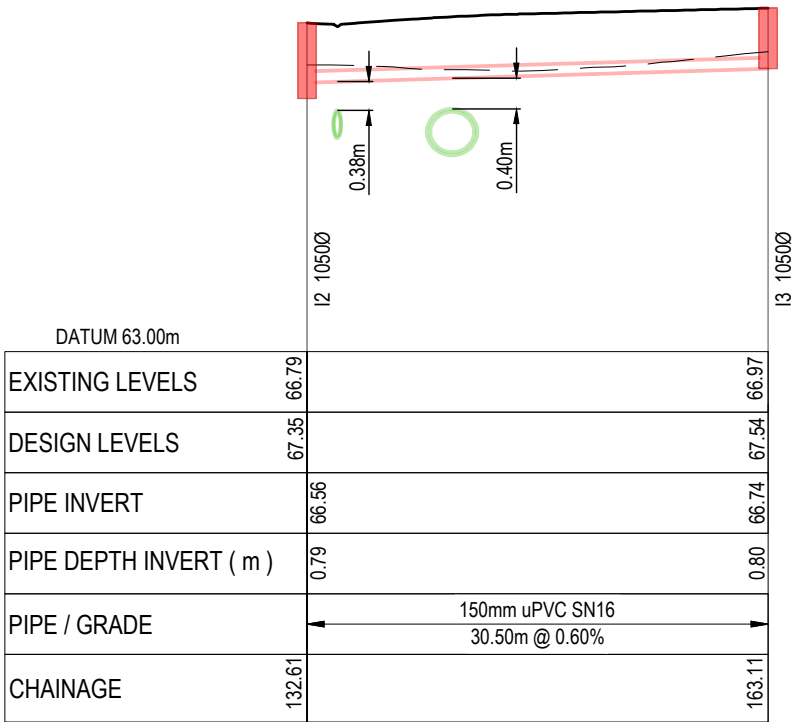
**PROPOSED  
WASTEWATER  
LONGSECTION PLAN**

Project no.	289001		
Scale	1:500 @ A3		
Cad file	289001 C5000 - WW.DWG		
Drawing no.	C5209	Rev	<b>A</b>

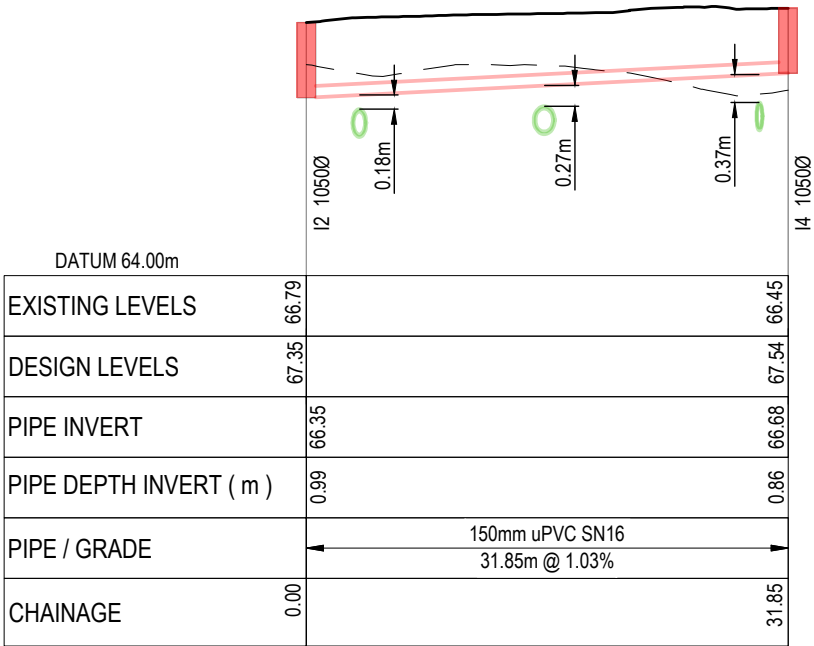
DATE: 11/18/25 FILE PATH: \\MAVEN\MAVENCONSULTING\CO\NSHARE\CURRENT\MAVEN\PROJECTS\289001 - STATION ROAD - RV DRAINAGE\DWG\289001 - WW\DWG



PR-WW G1 TO I2  
SCALE: HORI 1:500 VERT 1:100



PR-WW I2 TO I3  
SCALE: HORI 1:500 VERT 1:100



PR-WW I2 TO I4  
SCALE: HORI 1:500 VERT 1:100

RESOURCE CONSENT

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

--- EX GROUND LEVEL  
--- PR GROUND LEVEL  
--- CROSSING PIPE

A	RESOURCE CONSENT	DIJ	11/2025
Rev	Description	By	Date
		By	Date
Survey	MAVEN		10/2024
Design	DIJ		11/2025
Drawn	DIJ		11/2025
Checked	MS		11/2025



Project

**ASHBOURNE  
RETIREMENT VILLAGE  
MATAMATA  
FOR  
UNITY DEVELOPMENT LTD**

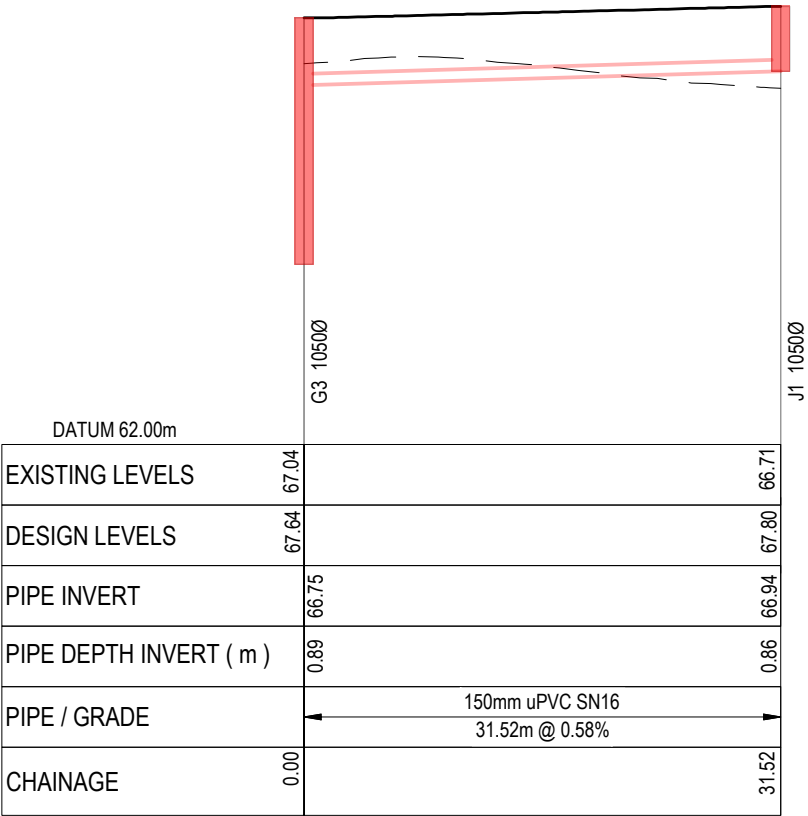
Title

**PROPOSED  
WASTEWATER  
LONGSECTION PLAN**

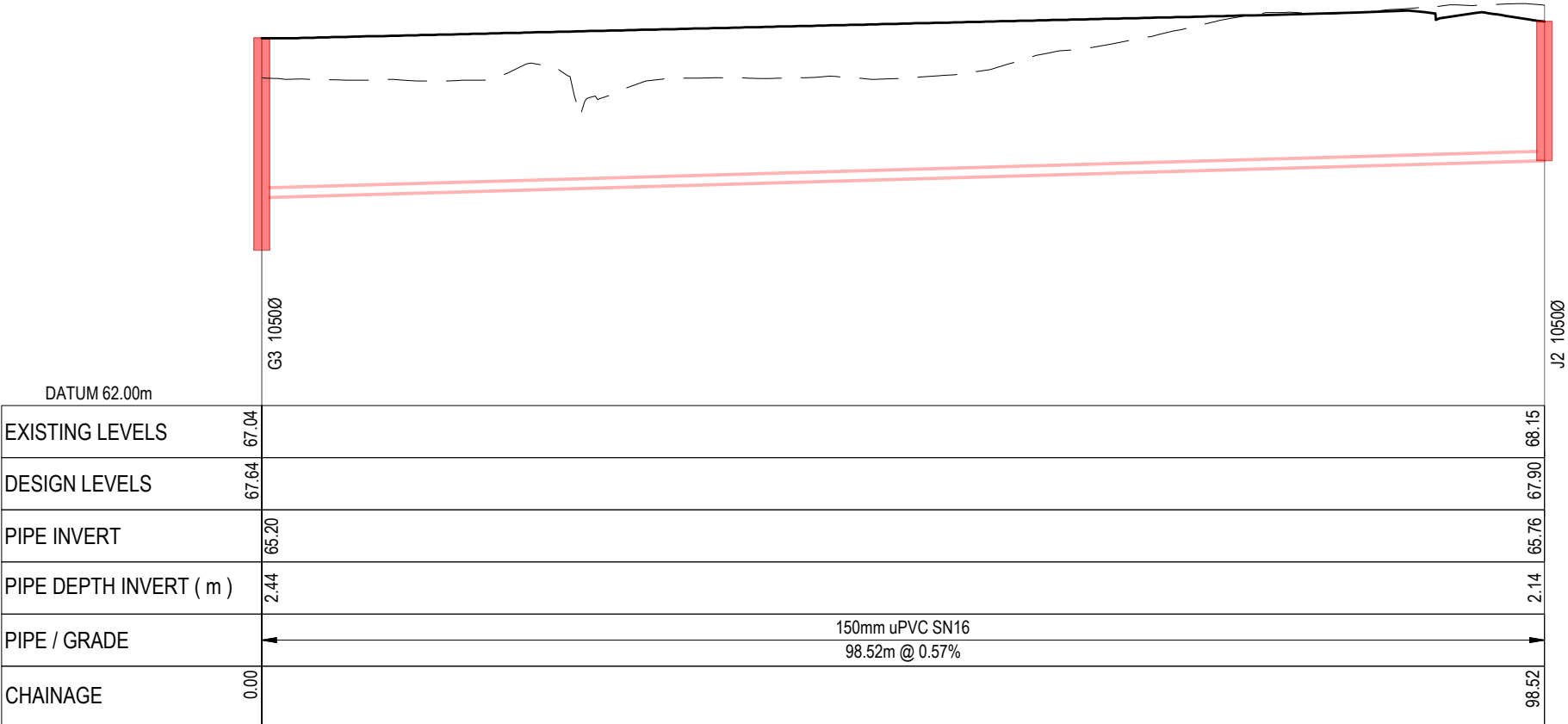
Project no.	289001		
Scale	1:500 @ A3		
Cad file	289001 C5000 - WW.DWG		
Drawing no.	C5210	Rev	<b>A</b>



DATE: 11/18/25 FILE PATH: \\MAVEN\MAVEN\CONSULTING\CD\SHARE\CURRENT\MAVEN\PROJECTS\289001 - STATION ROAD - RW\DRAINAGE\DWG\289001 C5000 - WW.DWG



PR-WW G3 TO J1  
SCALE: HORI 1:500 VERT 1:100



PR-WW G3 TO J2  
SCALE: HORI 1:500 VERT 1:100

RESOURCE CONSENT

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

— — — — — EX GROUND LEVEL

— — — — — PR GROUND LEVEL

0 0 CROSSING PIPE

A	RESOURCE CONSENT	DIJ	11/2025
Rev	Description	By	Date
		By	Date
Survey	MAVEN		10/2024
Design	DIJ		11/2025
Drawn	DIJ		11/2025
Checked	MS		11/2025

M

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5 Owens Road, Epsom

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Project

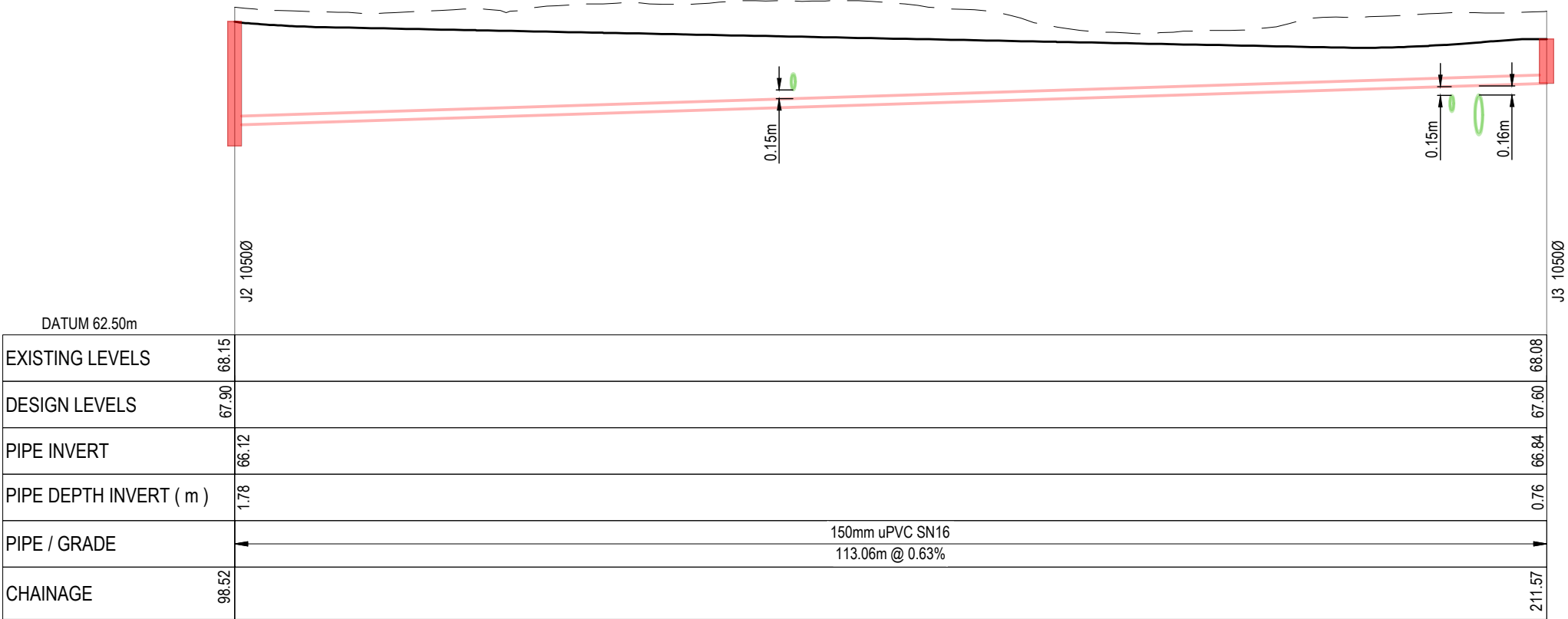
**ASHBOURNE  
RETIREMENT VILLAGE  
MATAMATA  
FOR  
UNITY DEVELOPMENT LTD**

Title

**PROPOSED  
WASTEWATER  
LONGSECTION PLAN**

Project no.	289001		
Scale	1:500 @ A3		
Cad file	289001 C5000 - WW.DWG		
Drawing no.	C5211	Rev	<b>A</b>

DATE: 11/18/25 FILE PATH: \\MAVEN\MAVEN\CONSULTING\CO\NZ\SHARE\CURRENT\MAVEN\PROJECTS\289001 - STATION ROAD - RV\DRAINAGE\DWG\289001\_C5000 - WW.DWG



PR-WW J2 TO J3  
SCALE: HORI 1:500 VERT 1:100

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

— — — — — EX GROUND LEVEL

— — — — — PR GROUND LEVEL

0 0 CROSSING PIPE

A	RESOURCE CONSENT	DIJ	11/2025
Rev	Description	By	Date
	By	Date	
Survey	MAVEN	10/2024	
Design	DIJ	11/2025	
Drawn	DIJ	11/2025	
Checked	MS	11/2025	

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5 Owens Road, Epsom

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Project

**ASHBOURNE  
RETIREMENT VILLAGE  
MATAMATA  
FOR  
UNITY DEVELOPMENT LTD**

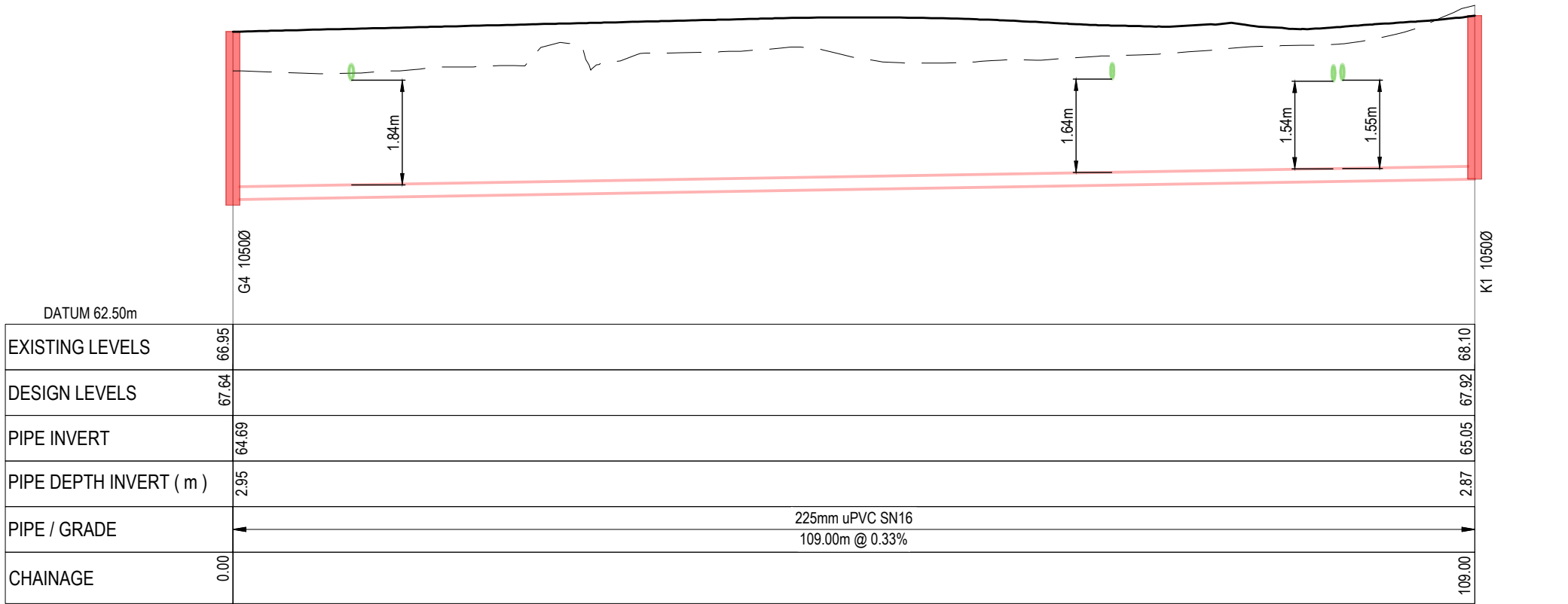
Title

**PROPOSED  
WASTEWATER  
LONGSECTION PLAN**

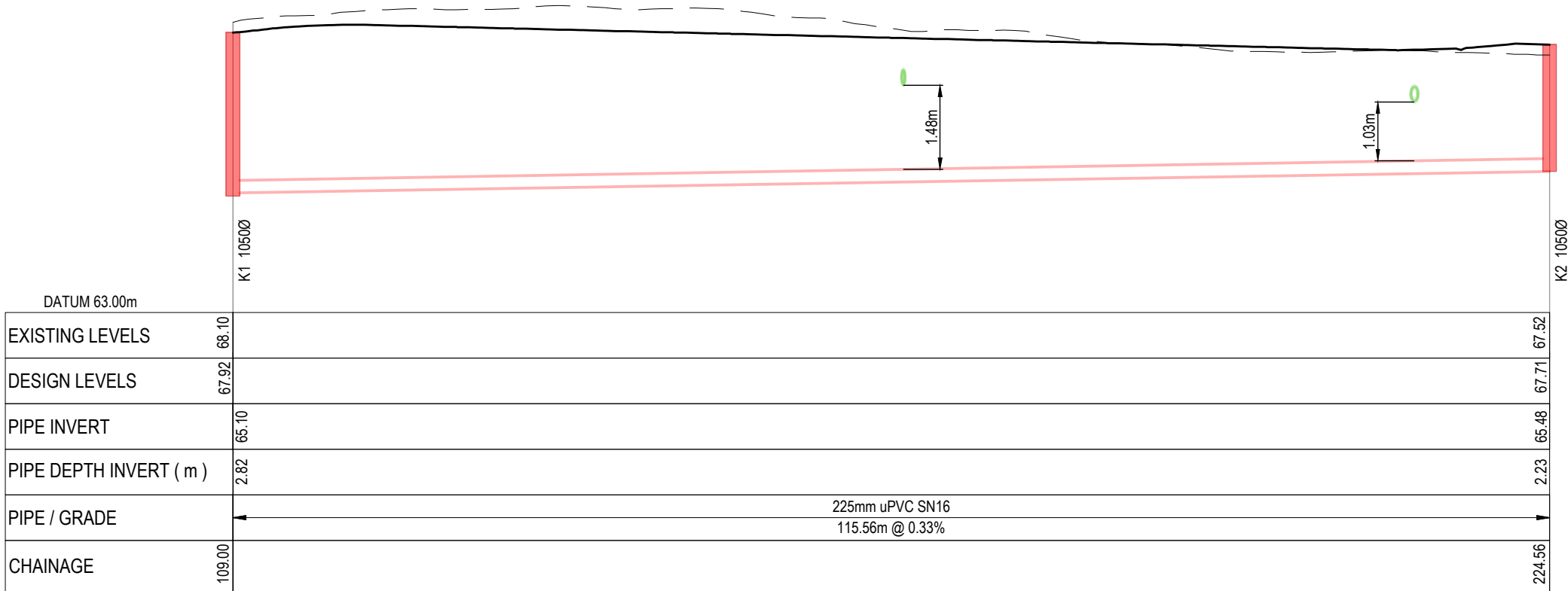
Project no.	289001		
Scale	1:500 @ A3		
Cad file	289001 C5000 - WW.DWG		
Drawing no.	C5212	Rev	<b>A</b>

RESOURCE CONSENT

DATE: 11/18/25 FILE PATH: \\MAVEN\MAVEN\CONSULTING\CO\NZ\SHARE\CURRENT\MAVEN\PROJECTS\289001 - STATION ROAD - RV\DRAINAGE\DWG\289001\_C5000 - WW\DWG



PR-WW G4 TO K1  
SCALE: HORI 1:500 VERT 1:100



PR-WW K1 TO K2  
SCALE: HORI 1:500 VERT 1:100

RESOURCE CONSENT

- NOTES
1. ALL WORKS TO BE IN ACCORDANCE WITH LOCAL COUNCIL STANDARDS.
  2. COORDINATES IN TERMS OF NZ GEODETIC DATUM MT EDEN 2000. LEVELS IN TERMS OF THE NEW ZEALAND VERTICAL DATUM 2016.
  3. IT IS THE CONTRACTORS RESPONSIBILITY TO LOCATE ALL SERVICES THAT MAY BE AFFECTED BY THEIR OPERATIONS.
  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.
  13. PEAK GROUNDWATER LEVELS PER WGA'S MEMO NOVEMBER 2025 EXPECTED IN RANGE OF 0.5m-1.5m BELOW DESIGN SURFACE. ALL WASTEWATER INFRASTRUCTURE BELOW WATER LEVELS TO BE SEALED TO MINIMISE INFILTRATION AND INFLOW INTO THE WASTEWATER SYSTEM.

LEGEND

--- EX GROUND LEVEL

--- PR GROUND LEVEL

--- CROSSING PIPE

A	RESOURCE CONSENT	DIJ	11/2025
Rev	Description	By	Date
		By	Date
Survey	MAVEN		10/2024
Design	DIJ		11/2025
Drawn	DIJ		11/2025
Checked	MS		11/2025



Project

**ASHBOURNE  
RETIREMENT VILLAGE  
MATAMATA  
FOR  
UNITY DEVELOPMENT LTD**

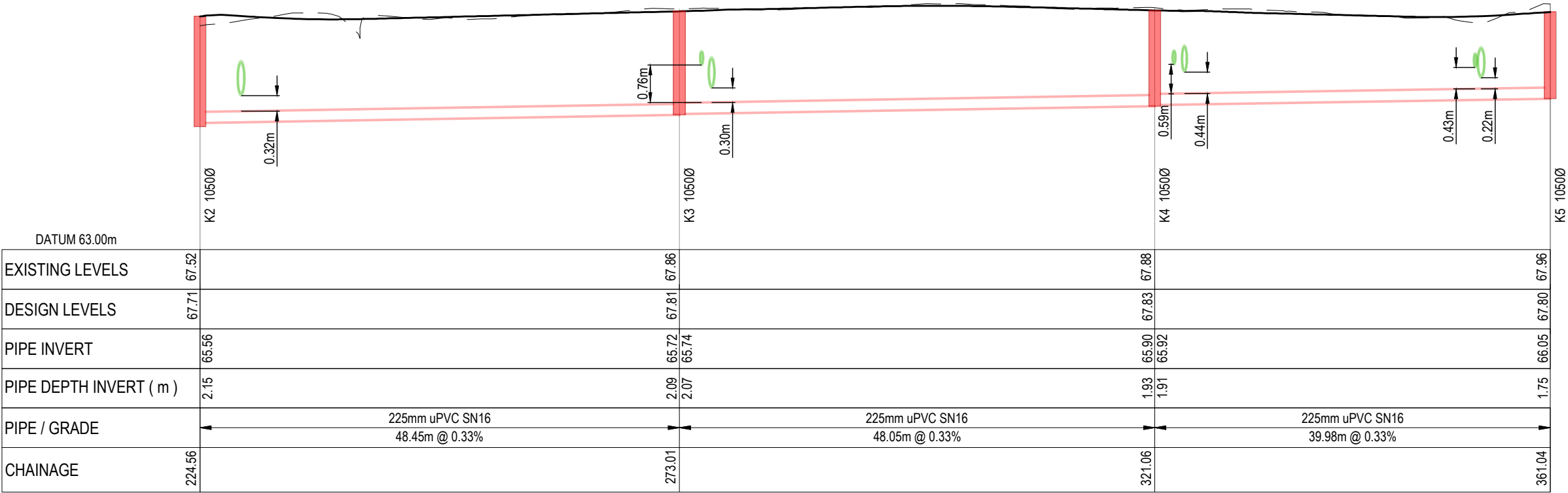
Title

**PROPOSED  
WASTEWATER  
LONGSECTION PLAN**

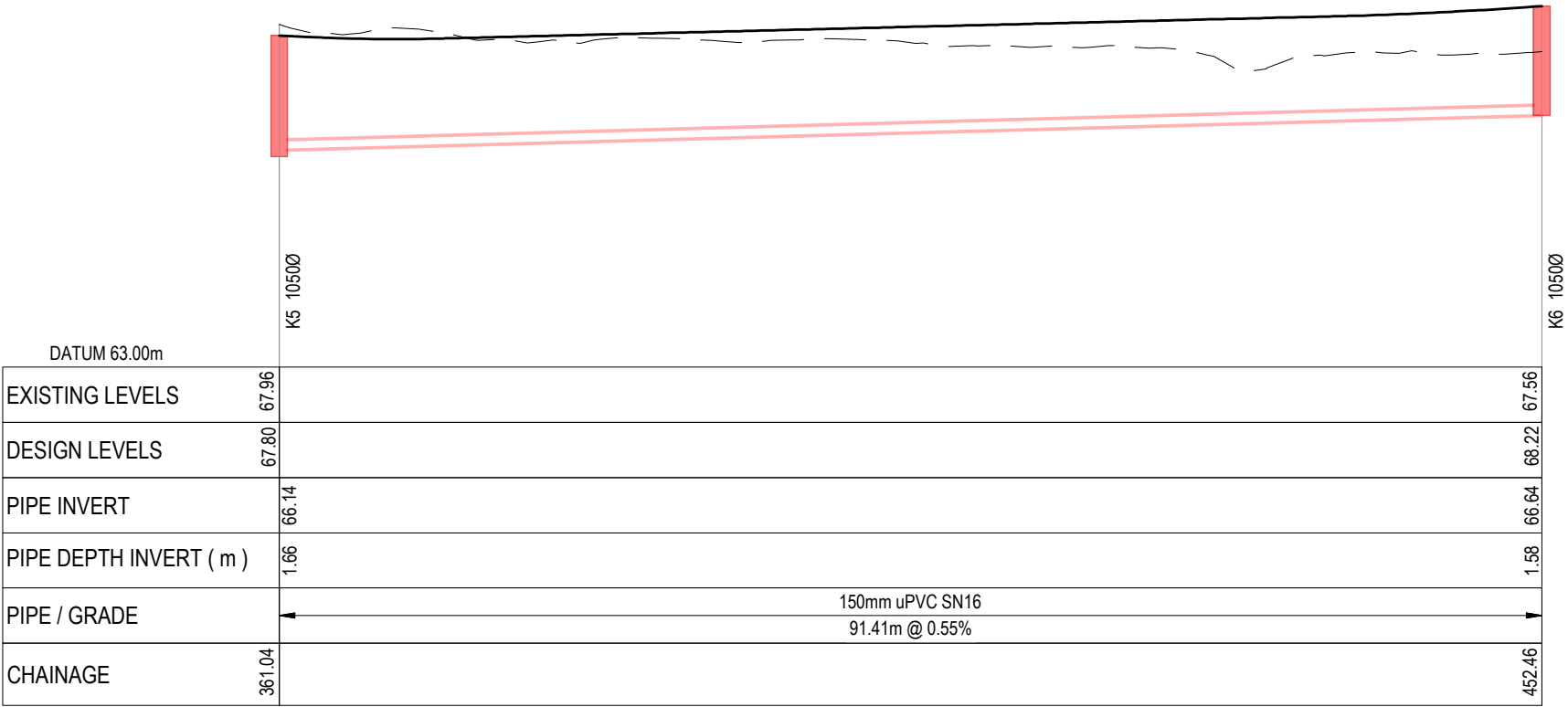
Project no.	289001		
Scale	1:500 @ A3		
Cad file	289001 C5000 - WW.DWG		
Drawing no.	C5213	Rev	<b>A</b>



DATE: 11/18/25 FILE PATH: \\MAVEN\MAVEN\CONSULTING\CD\NZ\SHARE\CURRENT\MAVEN\PROJECTS\289001 - STATION ROAD - RV\DRAINAGE\DWG\289001\_C5000 - WW.DWG



PR-WW K2 TO K5  
SCALE: HORI 1:500 VERT 1:100



PR-WW K2 TO K6  
SCALE: HORI 1:500 VERT 1:100

RESOURCE CONSENT

- NOTES
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LEGEND

EX GROUND LEVEL

PR GROUND LEVEL

CROSSING PIPE

A	RESOURCE CONSENT	DIJ	11/2025
Rev	Description	By	Date
		By	Date
Survey	MAVEN		10/2024
Design	DIJ		11/2025
Drawn	DIJ		11/2025
Checked	MS		11/2025

M

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Auckland 1023

Project

**ASHBOURNE**

**RETIREMENT VILLAGE**

**MATAMATA**

**FOR**

**UNITY DEVELOPMENT LTD**

Title

**PROPOSED**

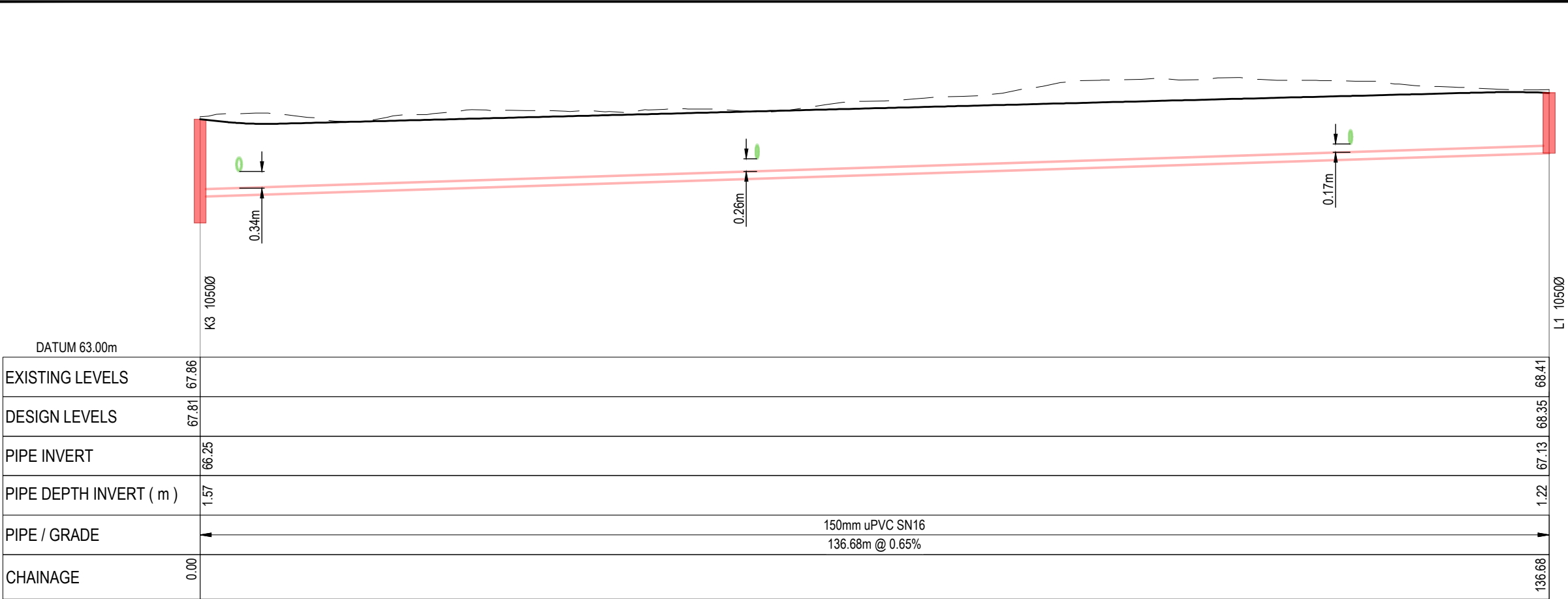
**WASTEWATER**

**LONGSECTION PLAN**

Project no.	289001		
Scale	1:500 @ A3		
Cad file	289001 C5000 - WW.DWG		
Drawing no.	C5214	Rev	<b>A</b>

DATE: 11/18/25 FILE PATH: \\MAVEN\MAVEN\CONSULTING\CO\NZ\SHARE\CURRENT\MAVEN\PROJECTS\289001 - STATION ROAD - RV\DRAINAGE\DWG\289001\_C5000 - WW.DWG

RESOURCE CONSENT



PR-WW K3 TO L1  
SCALE: HORI 1:500 VERT 1:100

- NOTES
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LEGEND

--- EX GROUND LEVEL  
--- PR GROUND LEVEL  
--- CROSSING PIPE

A	RESOURCE CONSENT	DIJ	11/2025
Rev	Description	By	Date
	By	Date	
Survey	MAVEN	10/2024	
Design	DIJ	11/2025	
Drawn	DIJ	11/2025	
Checked	MS	11/2025	

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Project

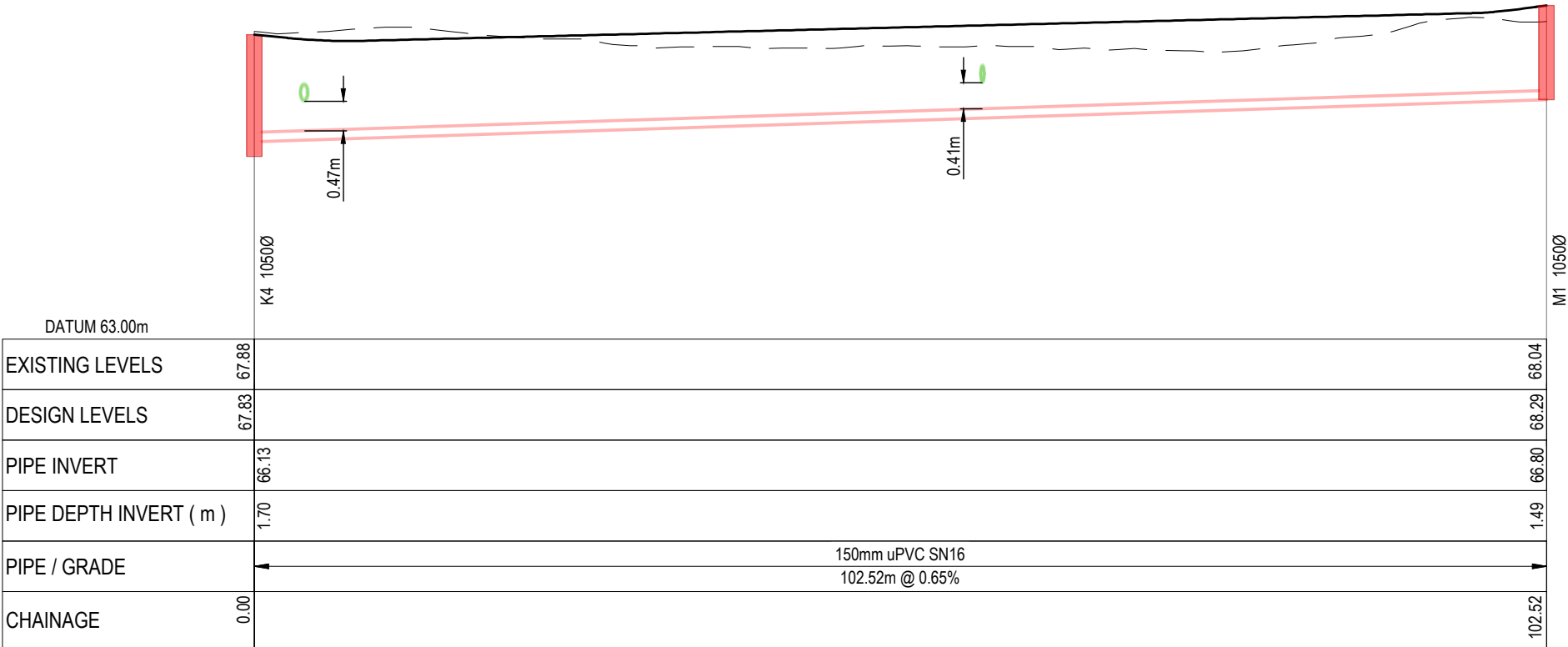
**ASHBOURNE  
RETIREMENT VILLAGE  
MATAMATA  
FOR  
UNITY DEVELOPMENT LTD**

Title

**PROPOSED  
WASTEWATER  
LONGSECTION PLAN**

Project no.	289001		
Scale	1:500 @ A3		
Cad file	289001 C5000 - WW.DWG		
Drawing no.	C5215	Rev	<b>A</b>

DATE: 11/18/25 FILE PATH: \\MAVEN\MAVEN\CONSULTING\CO\NZ\SHARE\CURRENT\MAVEN\PROJECTS\289001 - STATION ROAD - RV\DRAINAGE\DWG\289001 C5000 - WW.DWG



PR-WW K4 TO M1  
SCALE: HORI 1:500 VERT 1:100

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

--- EX GROUND LEVEL  
--- PR GROUND LEVEL  
--- CROSSING PIPE

A	RESOURCE CONSENT	DIJ	11/2025
Rev	Description	By	Date
	By	Date	
Survey	MAVEN	10/2024	
Design	DIJ	11/2025	
Drawn	DIJ	11/2025	
Checked	MS	11/2025	

M

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Auckland 1023

Project

**ASHBOURNE  
RETIREMENT VILLAGE  
MATAMATA  
FOR  
UNITY DEVELOPMENT LTD**

Title

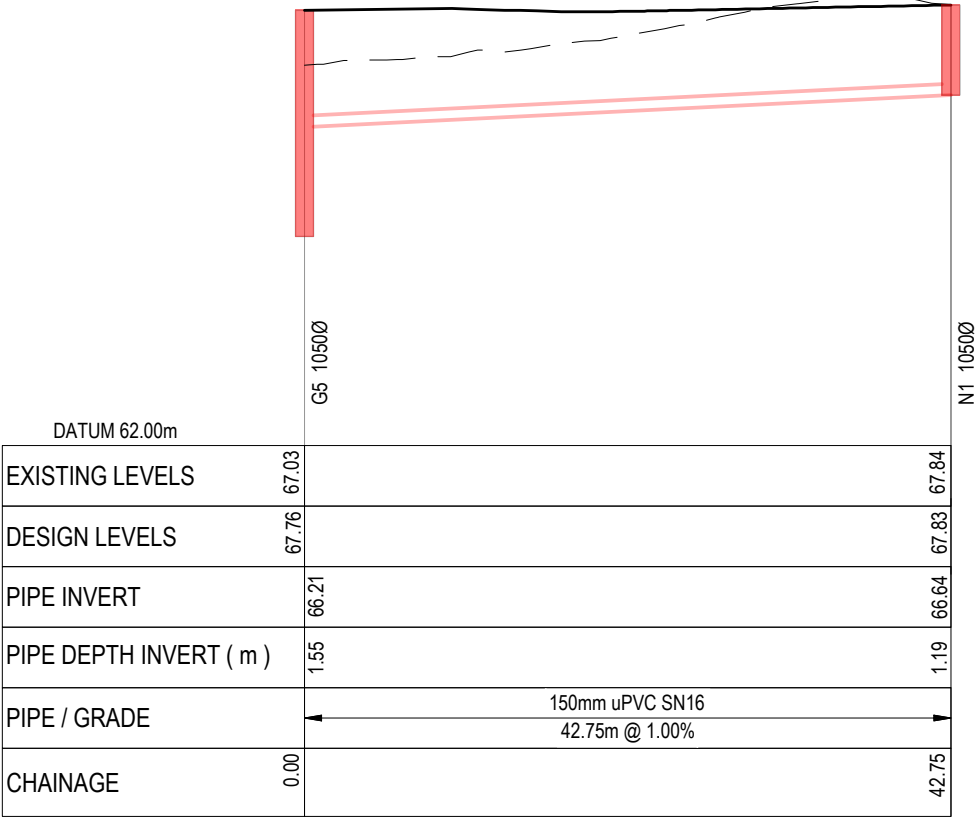
**PROPOSED  
WASTEWATER  
LONGSECTION PLAN**

Project no.	289001		
Scale	1:500 @ A3		
Cad file	289001 C5000 - WW.DWG		
Drawing no.	C5216	Rev	<b>A</b>

RESOURCE CONSENT



DATE: 11/18/25 FILE PATH: \\MAVEN\MAVEN\CONSULTING\CO\NZ\SHARE\CURRENT\MAVEN\PROJECTS\289001 - STATION ROAD - RV\DRAINAGE\DWG\289001 C5000 - WW.DWG



PR-WW G5 TO N1  
SCALE: HORI 1:500 VERT 1:100

RESOURCE CONSENT

- NOTES
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LEGEND

— — — — — EX GROUND LEVEL

— — — — — PR GROUND LEVEL

0 0 CROSSING PIPE

A	RESOURCE CONSENT	DIJ	11/2025
Rev	Description	By	Date
	By	Date	
Survey	MAVEN	10/2024	
Design	DIJ	11/2025	
Drawn	DIJ	11/2025	
Checked	MS	11/2025	

M

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Auckland 1023

Project

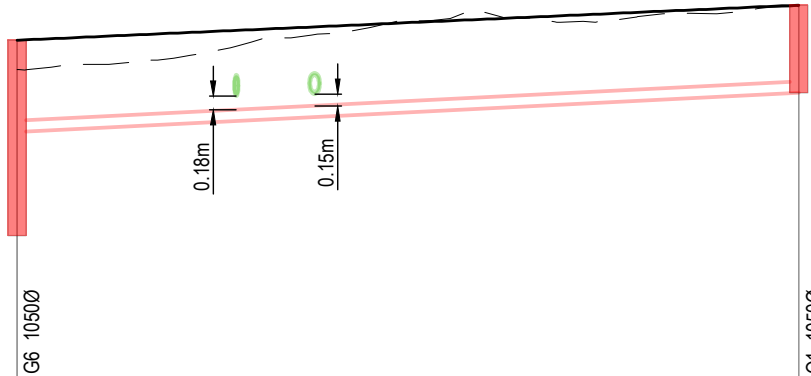
**ASHBOURNE  
RETIREMENT VILLAGE  
MATAMATA  
FOR  
UNITY DEVELOPMENT LTD**

Title

**PROPOSED  
WASTEWATER  
LONGSECTION PLAN**

Project no.	289001		
Scale	1:500 @ A3		
Cad file	289001 C5000 - WW.DWG		
Drawing no.	C5217	Rev	A

DATE: 11/18/25 FILE PATH: \\MAVEN\MAVEN\CONSULTING\CO\NZ\SHARE\CURRENT\MAVEN\PROJECTS\289001 - STATION ROAD - RV\DRAINAGE\DWG\289001\_C5000 - WW.DWG



DATUM 62.50m			
EXISTING LEVELS	67.07		67.90
DESIGN LEVELS	67.46		67.92
PIPE INVERT	66.24		66.76
PIPE DEPTH INVERT ( m )	1.21		1.16
PIPE / GRADE	150mm uPVC SN16 51.72m @ 1.00%		
CHAINAGE	0.00		51.72

PR-WW G6 TO O1  
SCALE: HORI 1:500 VERT 1:100

RESOURCE CONSENT

- NOTES
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LEGEND

— — — — — EX GROUND LEVEL

— — — — — PR GROUND LEVEL

0 0 CROSSING PIPE

A	RESOURCE CONSENT	DIJ	11/2025
Rev	Description	By	Date
	By	Date	
Survey	MAVEN	10/2024	
Design	DIJ	11/2025	
Drawn	DIJ	11/2025	
Checked	MS	11/2025	

M

MAVEN

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Auckland 1023

Project

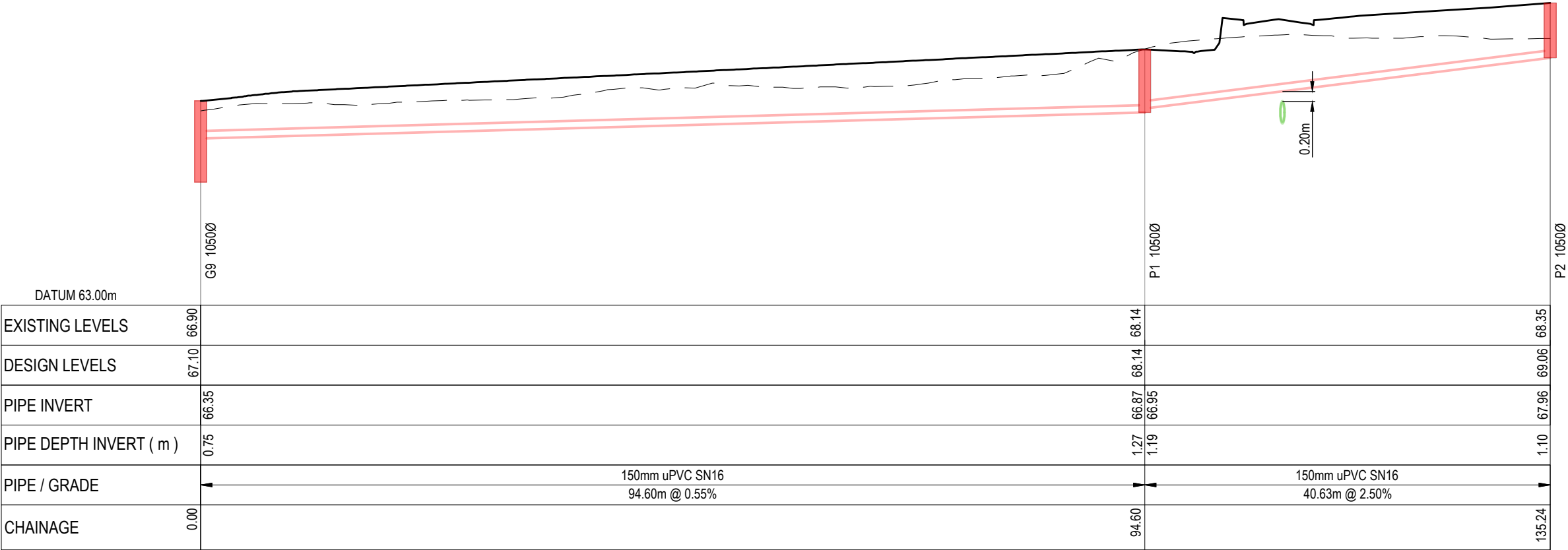
**ASHBOURNE  
RETIREMENT VILLAGE  
MATAMATA  
FOR  
UNITY DEVELOPMENT LTD**

Title

**PROPOSED  
WASTEWATER  
LONGSECTION PLAN**

Project no.	289001		
Scale	1:500 @ A3		
Cad file	289001 C5000 - WW.DWG		
Drawing no.	C5218	Rev	A

DATE: 11/18/25 FILE PATH: \\MAVEN\MAVEN\CONSULTING\CO\NZ\SHARE\CURRENT\MAVEN\PROJECTS\289001 - STATION ROAD - RV\DRAINAGE\DWG\289001\_C5000 - WW.DWG



PR-WW G9 TO P2  
SCALE: HORI 1:500 VERT 1:100

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

--- EX GROUND LEVEL  
--- PR GROUND LEVEL  
--- CROSSING PIPE

A	RESOURCE CONSENT	DIJ	11/2025
Rev	Description	By	Date
	By	Date	
Survey	MAVEN	10/2024	
Design	DIJ	11/2025	
Drawn	DIJ	11/2025	
Checked	MS	11/2025	

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Auckland 1023

Project

**ASHBOURNE  
RETIREMENT VILLAGE  
MATAMATA  
FOR  
UNITY DEVELOPMENT LTD**

Title

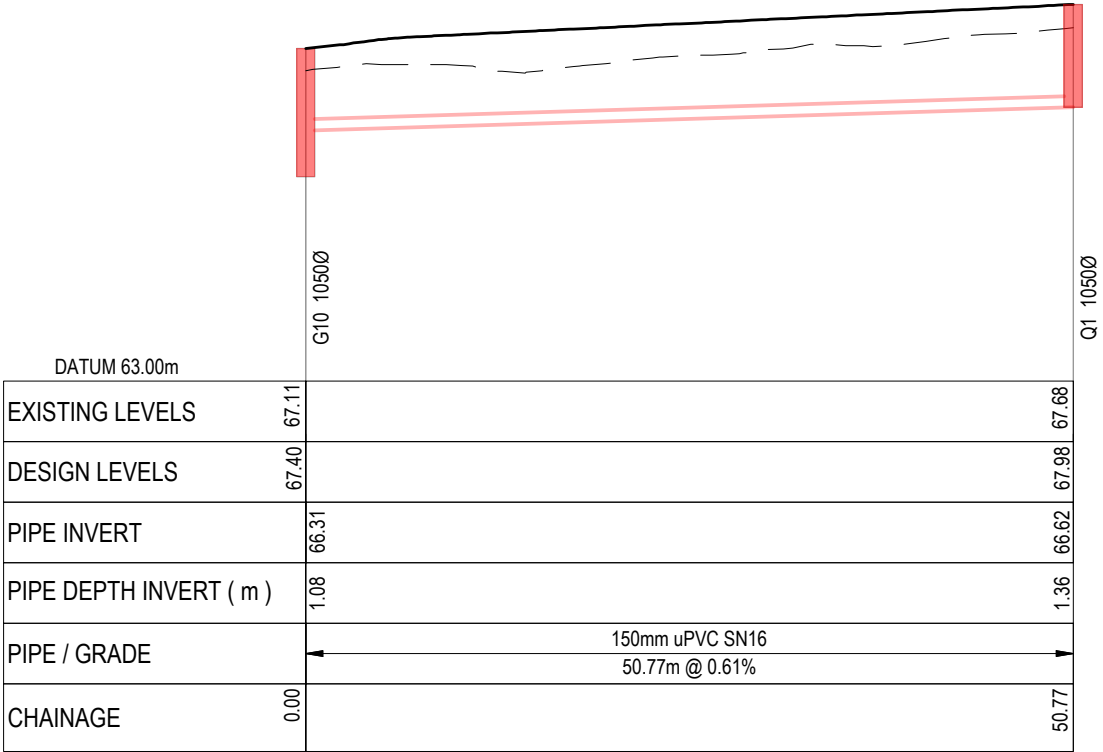
**PROPOSED  
WASTEWATER  
LONGSECTION PLAN**

Project no.	289001		
Scale	1:500 @ A3		
Cad file	289001 C5000 - WW.DWG		
Drawing no.	C5219	Rev	<b>A</b>

RESOURCE CONSENT



DATE: 11/18/25 FILE PATH: \\MAVEN\MAVEN\CONSULTING\CO\NZ\SHARE\CURRENT\MAVEN\PROJECTS\289001 - STATION ROAD - RV\DRAINAGE\DWG\289001 C5000 - WW.DWG



PR-WW G10 TO Q1  
SCALE: HORI 1:500 VERT 1:100

RESOURCE CONSENT

- NOTES
1. ALL WORKS TO BE IN ACCORDANCE WITH LOCAL COUNCIL STANDARDS.
  2. COORDINATES IN TERMS OF NZ GEODETIC DATUM MT EDEN 2000. LEVELS IN TERMS OF THE NEW ZEALAND VERTICAL DATUM 2016.
  3. IT IS THE CONTRACTORS RESPONSIBILITY TO LOCATE ALL SERVICES THAT MAY BE AFFECTED BY THEIR OPERATIONS.
  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.
  13. PEAK GROUNDWATER LEVELS PER WGA'S MEMO NOVEMBER 2025 EXPECTED IN RANGE OF 0.5m-1.5m BELOW DESIGN SURFACE. ALL WASTEWATER INFRASTRUCTURE BELOW WATER LEVELS TO BE SEALED TO MINIMISE INFILTRATION AND INFLOW INTO THE WASTEWATER SYSTEM.

LEGEND

— — — — — EX GROUND LEVEL

— — — — — PR GROUND LEVEL

0 0 CROSSING PIPE

A	RESOURCE CONSENT	DIJ	11/2025
Rev	Description	By	Date
	By	Date	
Survey	MAVEN	10/2024	
Design	DIJ	11/2025	
Drawn	DIJ	11/2025	
Checked	MS	11/2025	

M

MAVEN

Maven Associates®

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5 Owens Road, Epsom

Auckland 1023

Project

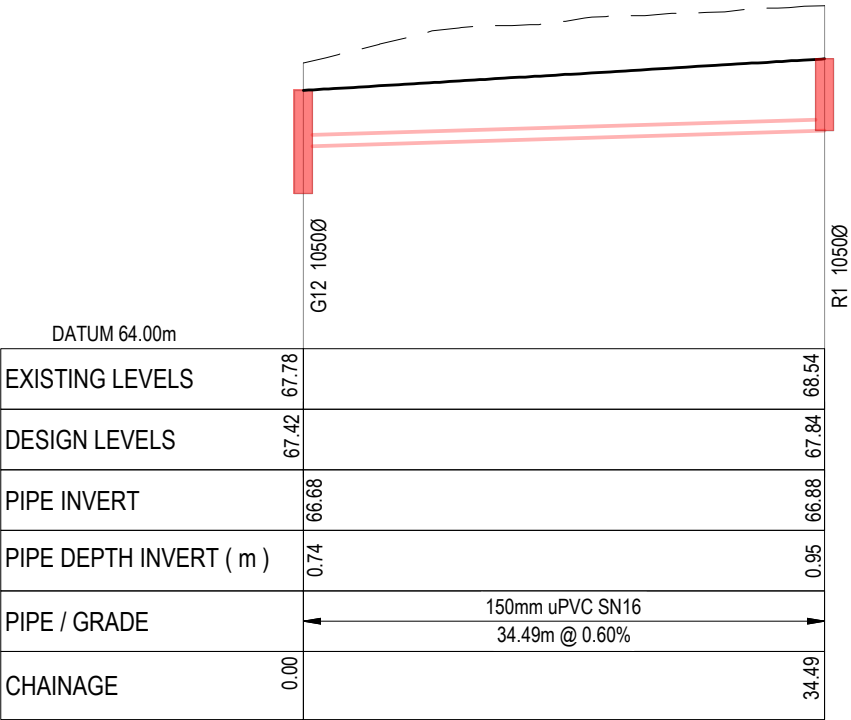
**ASHBOURNE  
RETIREMENT VILLAGE  
MATAMATA  
FOR  
UNITY DEVELOPMENT LTD**

Title

**PROPOSED  
WASTEWATER  
LONGSECTION PLAN**

Project no.	289001		
Scale	1:500 @ A3		
Cad file	289001 C5000 - WW.DWG		
Drawing no.	C5220	Rev	<b>A</b>

DATE: 11/18/25 FILE PATH: \\MAVEN\MAVEN\CONSULTING\CO\NZ\SHARE\CURRENT\MAVEN\PROJECTS\289001 - STATION ROAD - RV\DRAINAGE\DWG\289001 C5000 - WW.DWG



PR-WW G12 TO R1  
SCALE: HORI 1:500 VERT 1:100

RESOURCE CONSENT

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- LEGEND
- — — — — EX GROUND LEVEL  
— — — — — PR GROUND LEVEL  
Ø Ø CROSSING PIPE

A	RESOURCE CONSENT	DIJ	11/2025
Rev	Description	By	Date
	By	Date	
Survey	MAVEN	10/2024	
Design	DIJ	11/2025	
Drawn	DIJ	11/2025	
Checked	MS	11/2025	

M

A

E

N

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5 Owens Road, Epsom

Auckland 1023

Project

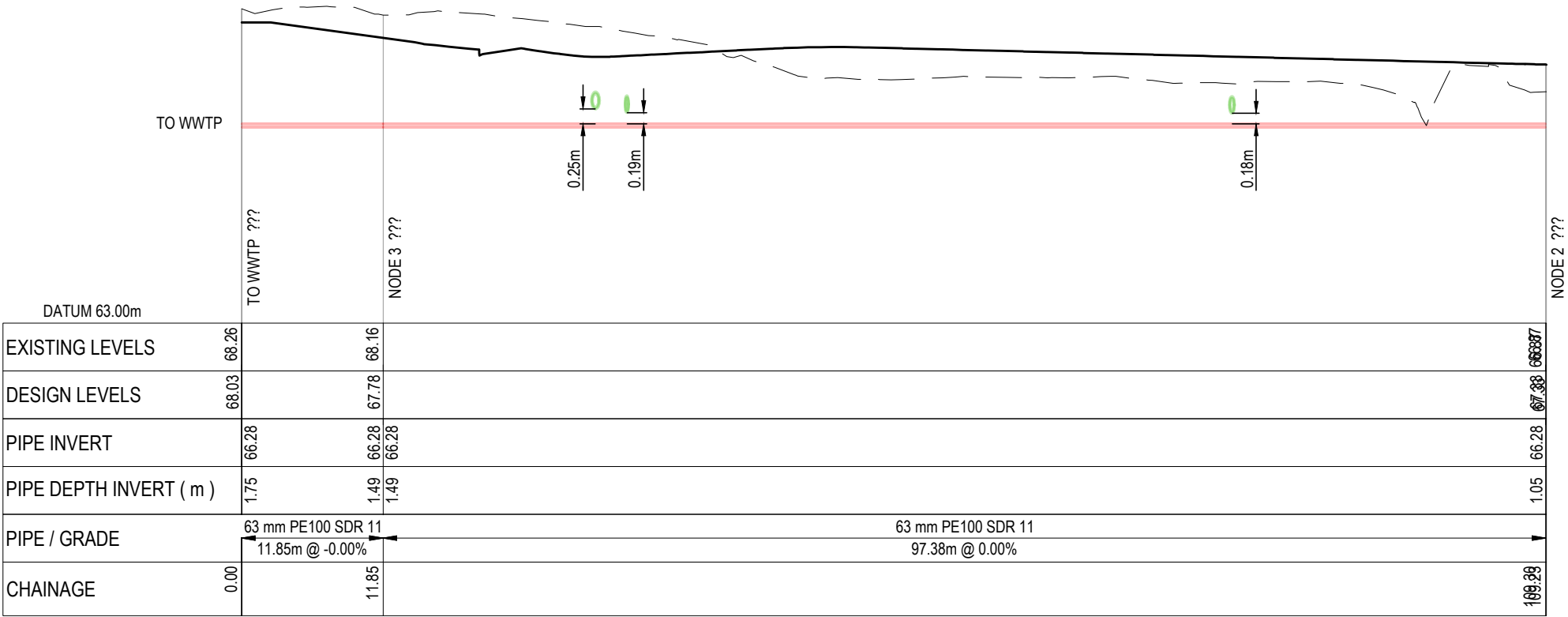
**ASHBOURNE  
RETIREMENT VILLAGE  
MATAMATA  
FOR  
UNITY DEVELOPMENT LTD**

Title

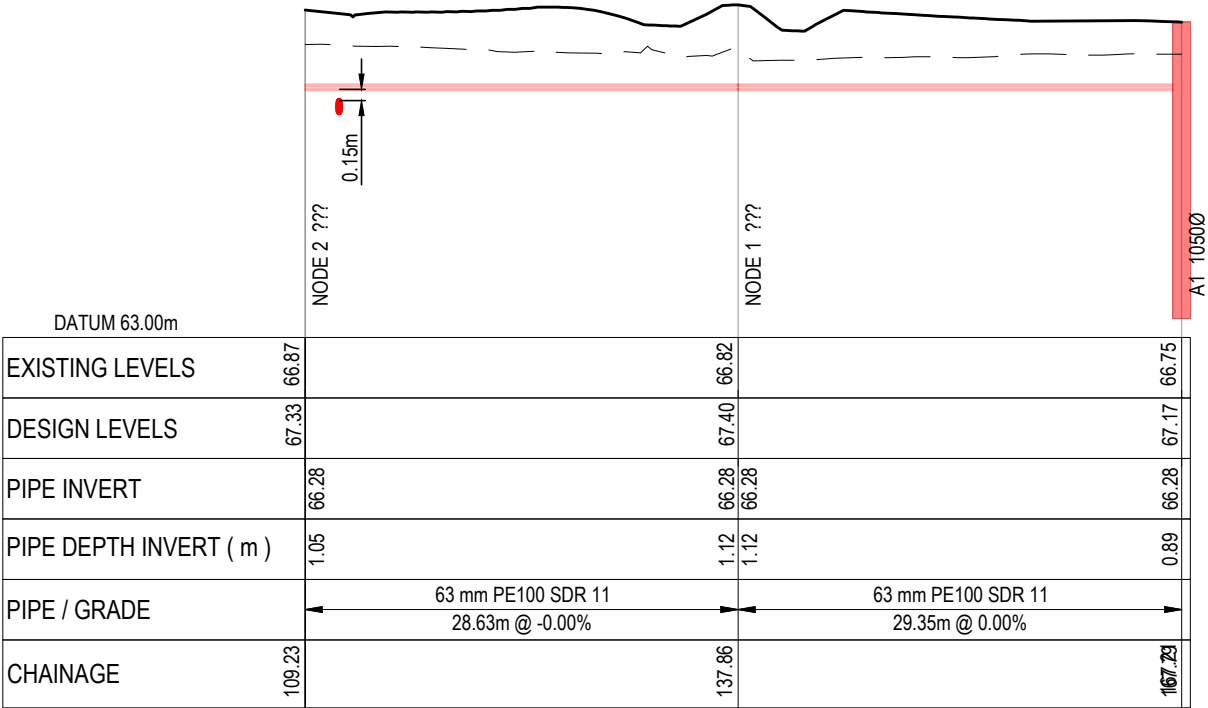
**PROPOSED  
WASTEWATER  
LONGSECTION PLAN**

Project no.	289001		
Scale	1:500 @ A3		
Cad file	289001 C5000 - WW.DWG		
Drawing no.	C5221	Rev	A

DATE: 11/18/25 FILE PATH: \\MAVEN\MAVEN\CONSULTING\CONS\RES\RETIREMENT\MAVEN\PROJECTS\289001 - STATION ROAD - RV\DRAINAGE\DWG\289001\_C5000 - WW.DWG



PR-WW RISING MAIN WWTP TO NODE 2  
SCALE: HORI 1:500 VERT 1:100



PR-WW RISING MAIN NODE 2 TO A1  
SCALE: HORI 1:500 VERT 1:100

RESOURCE CONSENT

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LEGEND

EX GROUND LEVEL  
PR GROUND LEVEL  
CROSSING PIPE

A	RESOURCE CONSENT	DIJ	11/2025
Rev	Description	By	Date
	By	Date	
Survey	MAVEN	10/2024	
Design	DIJ	11/2025	
Drawn	DIJ	11/2025	
Checked	MS	11/2025	



Project

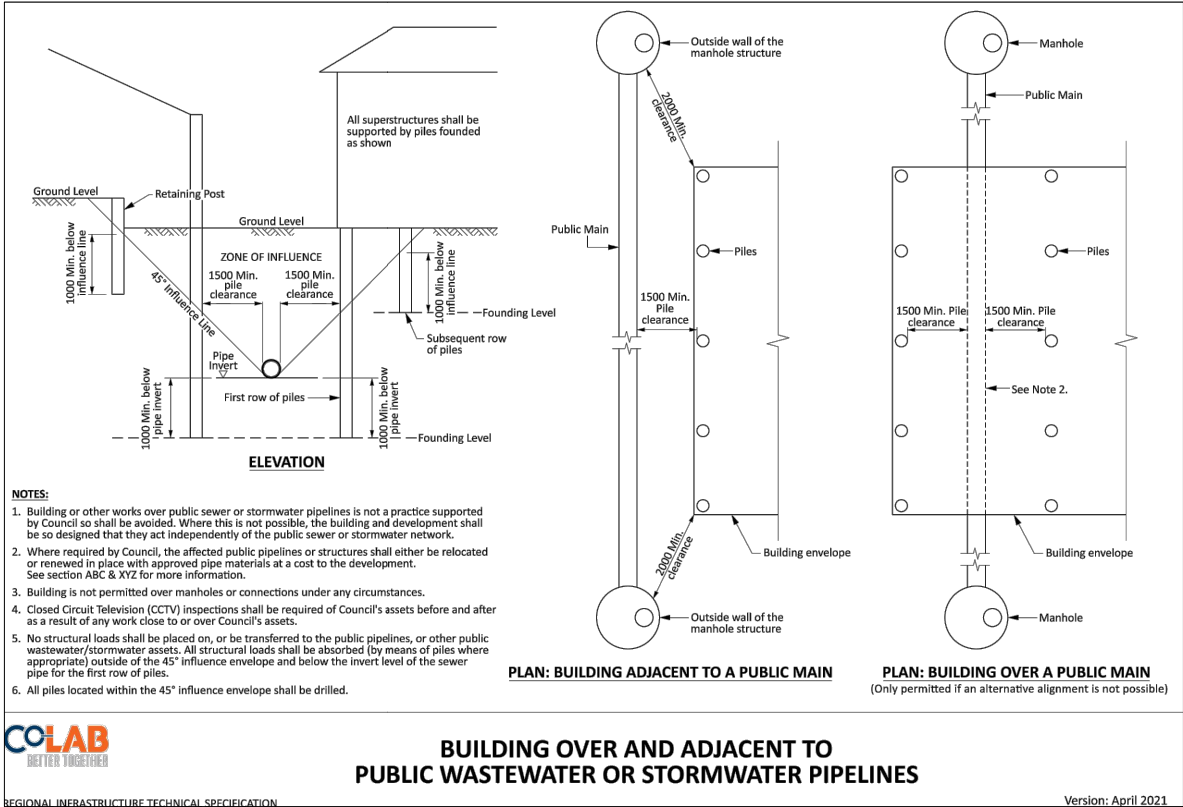
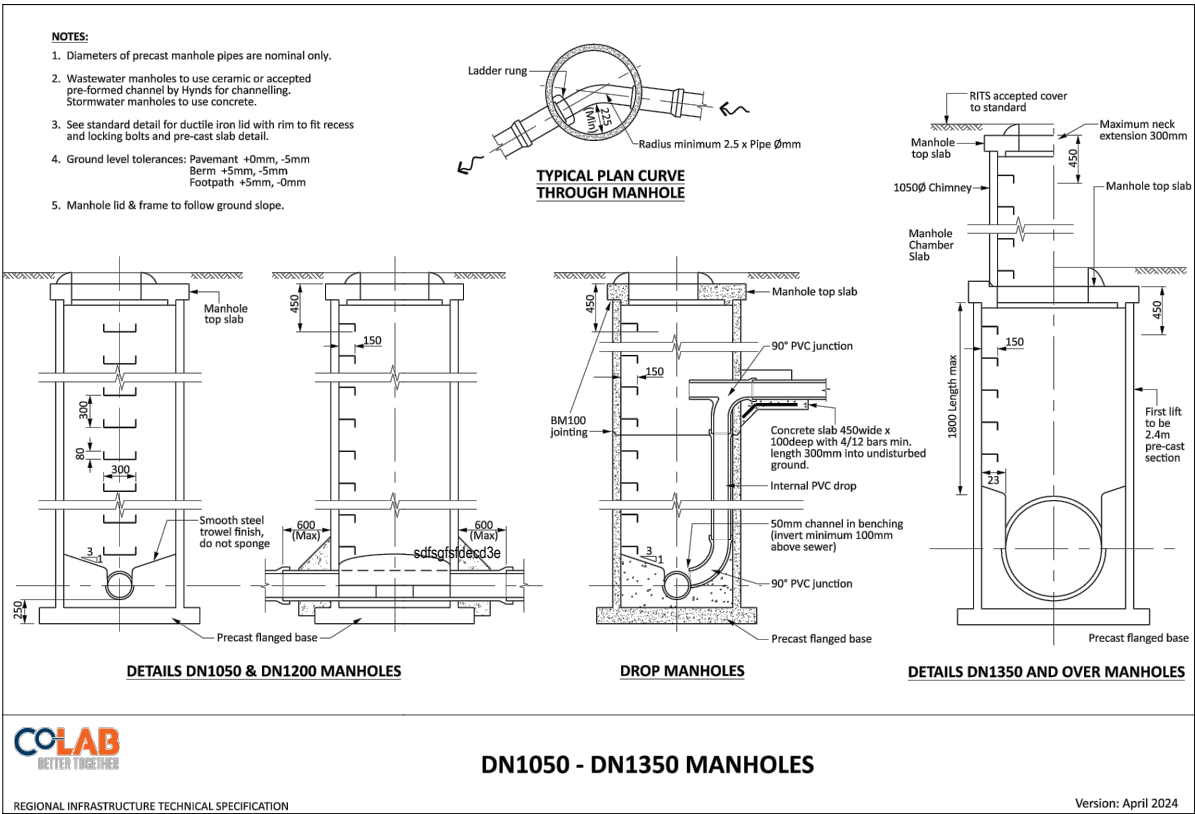
**ASHBOURNE  
RETIREMENT VILLAGE  
MATAMATA  
FOR  
UNITY DEVELOPMENT LTD**

Title

**PROPOSED  
WASTEWATER  
LONGSECTION PLAN**

Project no.	289001
Scale	1:500 @ A3
Cad file	289001 C5000 - WW.DWG
Drawing no.	C5222
Rev	A

FOR CONSENT



- Notes
- All works to be in accordance with local council standards.
  - All bends and connections to be no more than 45°
  - All connections to existing drains shall be carried out by a licensed Drainlayer/Plumber.
  - Drainage shall comply in full with E1/AS1 building code for storm water.
  - All cesspits shall have half syphons installed.
  - All sanitary waste drains shall be uPVC to AS/NZS 1260.
  - Sewer shall comply in full with AS/NZS 3500.2 - 2003 and/or G13 Building Code
  - Refer to Hydraulic engineers drawings for building plumbing beyond that shown including down pipe sizes.
  - All pipes shall be SN16 grade unless otherwise stated.
  - Drainlayer shall locate and confirm connection invert before starting building works.
  - Plans to be read in conjunction with Hydraulic Engineers and differences shall clarified be before contractor starts.
  - All chamber lids shall have a minimum 200mm maximum 300 throat to provide sufficient cover for landscape and pavement over the top.

B	FOR CONSENT	MS	04/25
A	FOR REVIEW	MS	01/25
Rev	Description	By	Date
	By	Date	
Survey	MAVEN	10/2024	
Design	MS	12/2024	
Drawn	MS	12/2024	
Checked	SB	12/2024	

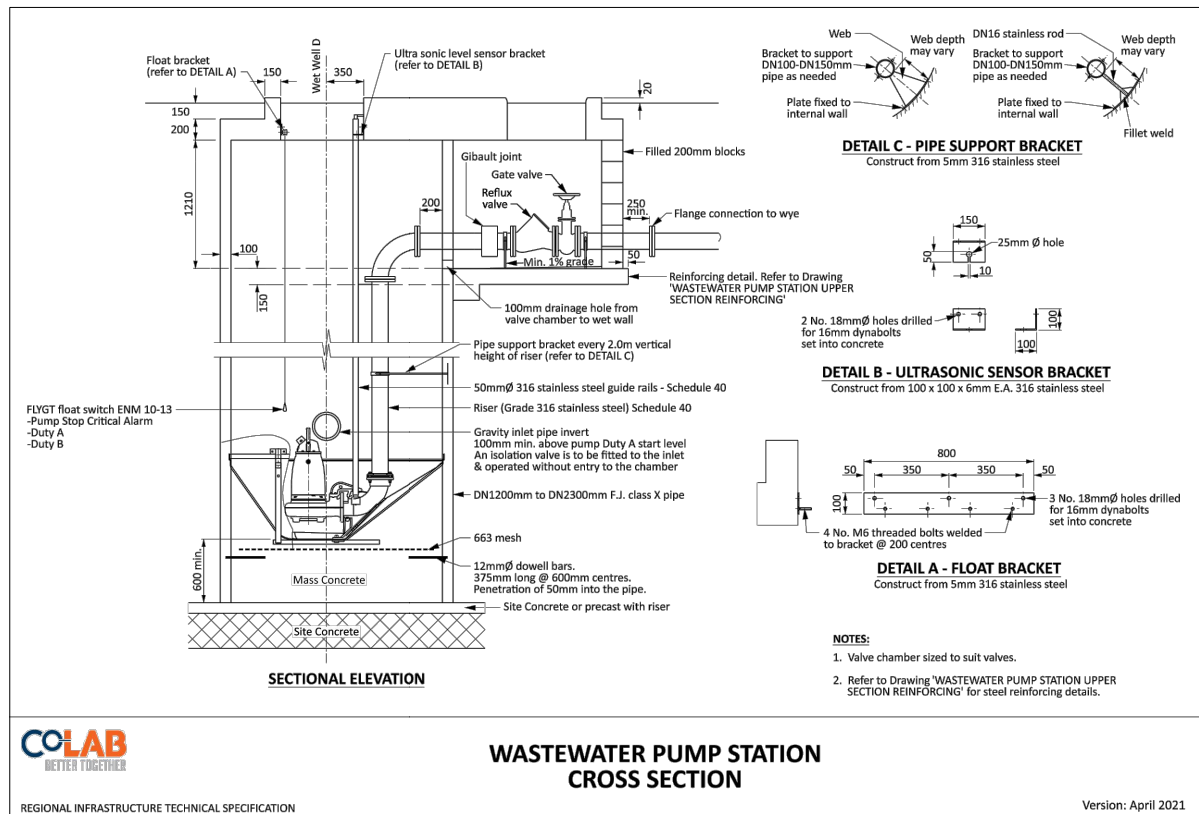


Project  
**ASHBOURNE  
RETIREMENT VILLAGE  
MATAMATA  
FOR  
UNITY DEVELOPMENT LTD**

Title  
**PROPOSED WW  
STANDARD DETAIL PLAN  
SHEET 1 OF 5**

Project no.	J00606		
Scale	NTS		
Cad file	C5800 -WW SD DETAILS.DWG		
Drawing no.	C5800	Rev	<b>B</b>





**DETAIL C - PIPE SUPPORT BRACKET**  
Construct from 5mm 316 stainless steel

Web depth may vary

DN16 stainless rod

Bracket to support DN100-DN150mm pipe as needed

Plate fixed to internal wall

Web depth may vary

Fillet weld

**DETAIL B - ULTRASONIC SENSOR BRACKET**  
Construct from 100 x 100 x 6mm E.A. 316 stainless steel

150

25mm  $\varnothing$  hole

50

10

100

100

18mm  $\varnothing$  holes drilled  
for  
dynabolts  
in  
concrete

**DETAIL A - FLOAT BRACKET**  
Construct from 5mm 316 stainless steel

800

350

350

50

3 No. 18mm $\varnothing$  holes drilled  
for 16mm dynabolts  
set into concrete

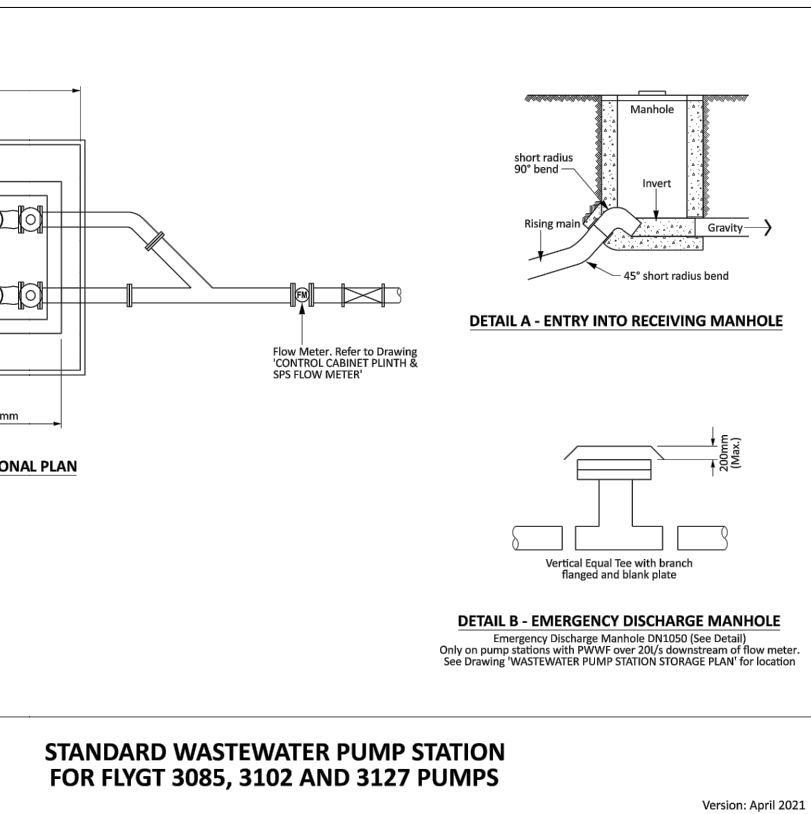
M6 threaded bolts welded  
to bracket @ 200 centres

**NOTES:**

Valve chamber sized to suit valves.

Refer to Drawing 'WASTEWATER PUMP STATION UPPER SECTION REINFORCING' for steel reinforcing details.

Version: April 2021



- |         |             |         |       |
|---------|-------------|---------|-------|
|         |             |         |       |
|         |             |         |       |
| B       | FOR CONSENT | MS      | 04/25 |
| A       | FOR REVIEW  | MS      | 01/25 |
| Rev     | Description | By      | Date  |
|         | By          | Date    |       |
| Survey  | MAVEN       | 10/2024 |       |
| Design  | MS          | 12/2024 |       |
| Drawn   | MS          | 12/2024 |       |
| Checked | SB          | 12/2024 |       |



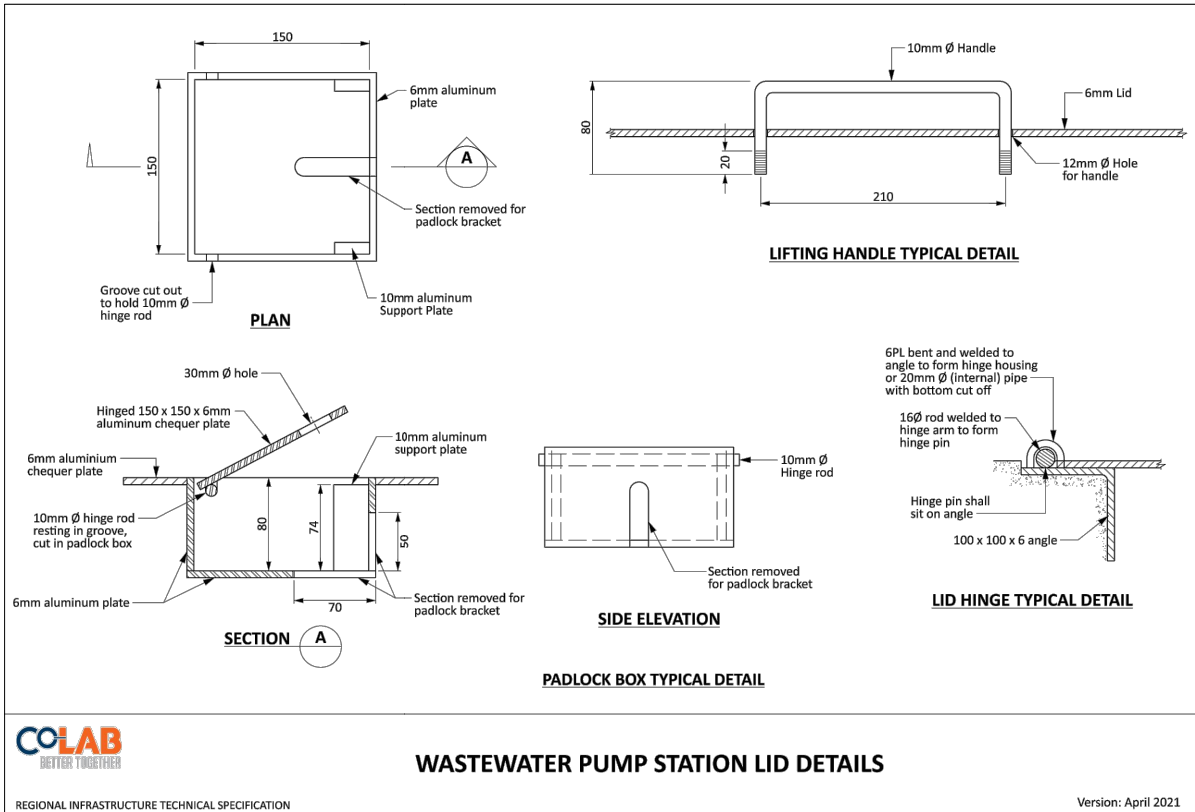
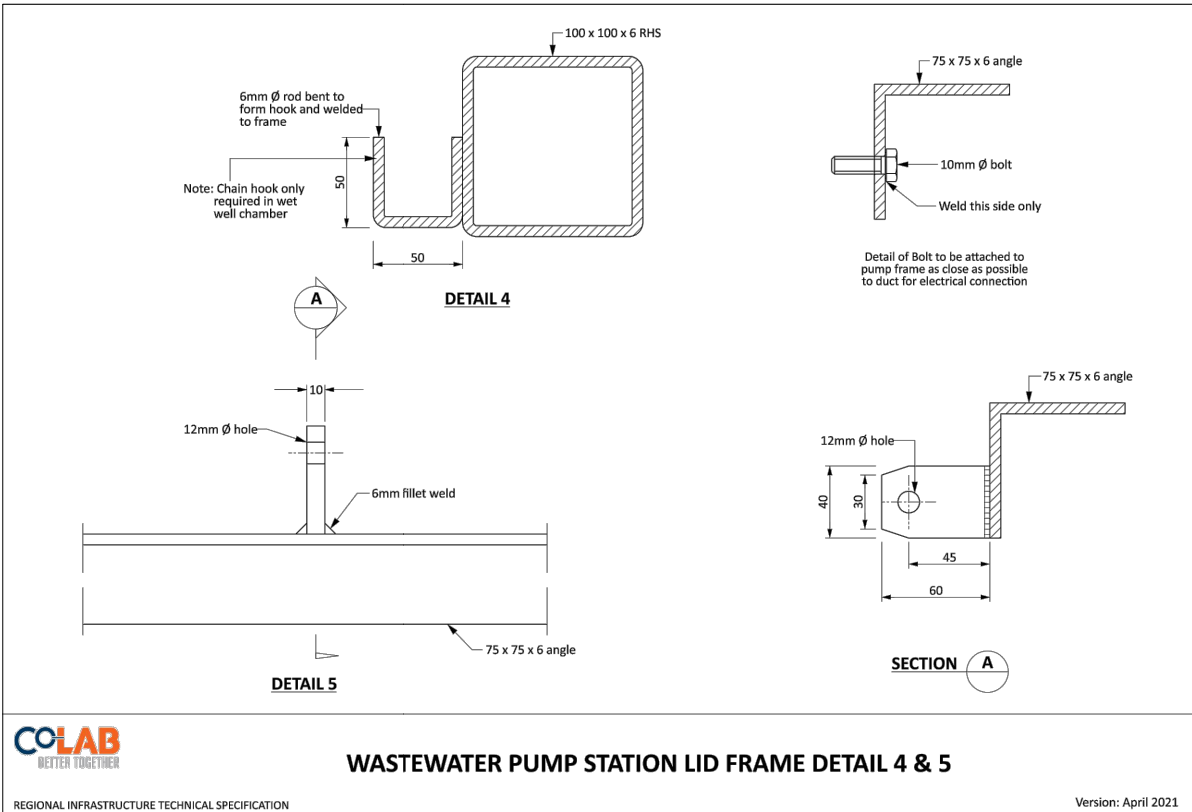
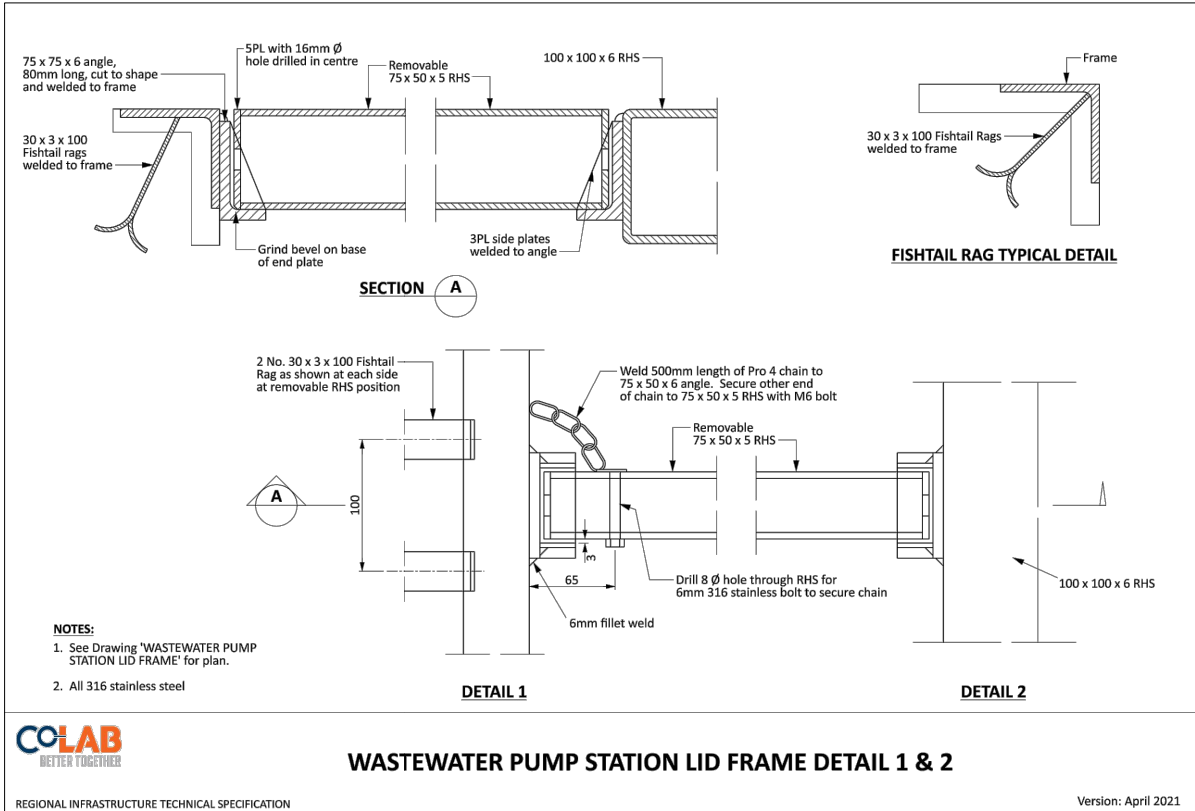
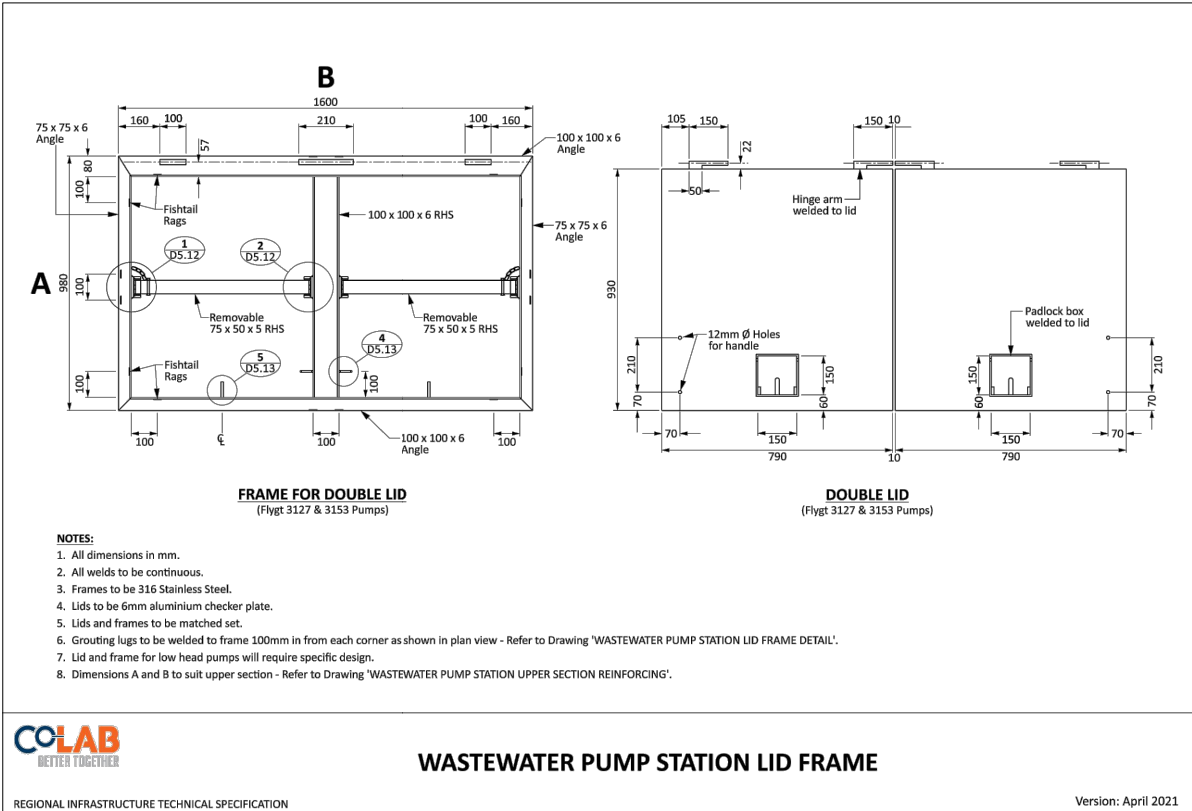
**Maven Matamata**  
matamatainfo@maven.co.nz  
www.maven.co.nz  
8 Tainui Street, Matamata  
New Zealand

Project  
**ASHBOURNE  
RETIREMENT VILLAGE  
MATAMATA  
FOR  
UNITY DEVELOPMENT LTD**

Title  
**PROPOSED WW  
STANDARD DETAIL PLAN  
SHEET 2 OF 5**

Project no.	J00606		
Scale	NTS		
Cad file	C5800 -WW SD DETAILS.DWG		
Drawing no.	C5801	Rev	<b>B</b>

150mm  
100  
80  
80  
70  
60  
50  
40  
30  
20  
10  
0



- Notes
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B	FOR CONSENT	MS	04/25
A	FOR REVIEW	MS	01/25
Rev	Description	By	Date
		By	Date
Survey	MAVEN		10/2024
Design	MS		12/2024
Drawn	MS		12/2024
Checked	SB		12/2024



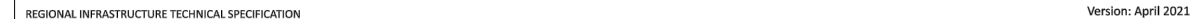
Project  
**ASHBOURNE  
RETIREMENT VILLAGE  
MATAMATA  
FOR  
UNITY DEVELOPMENT LTD**

Title  
**PROPOSED WW  
STANDARD DETAIL PLAN  
SHEET 3 OF 5**

Project no.	J00606
Scale	NTS
Cad file	C5800 -WW SD DETAILS.DWG
Drawing no.	C5802
Rev	B

FOR CONSENT

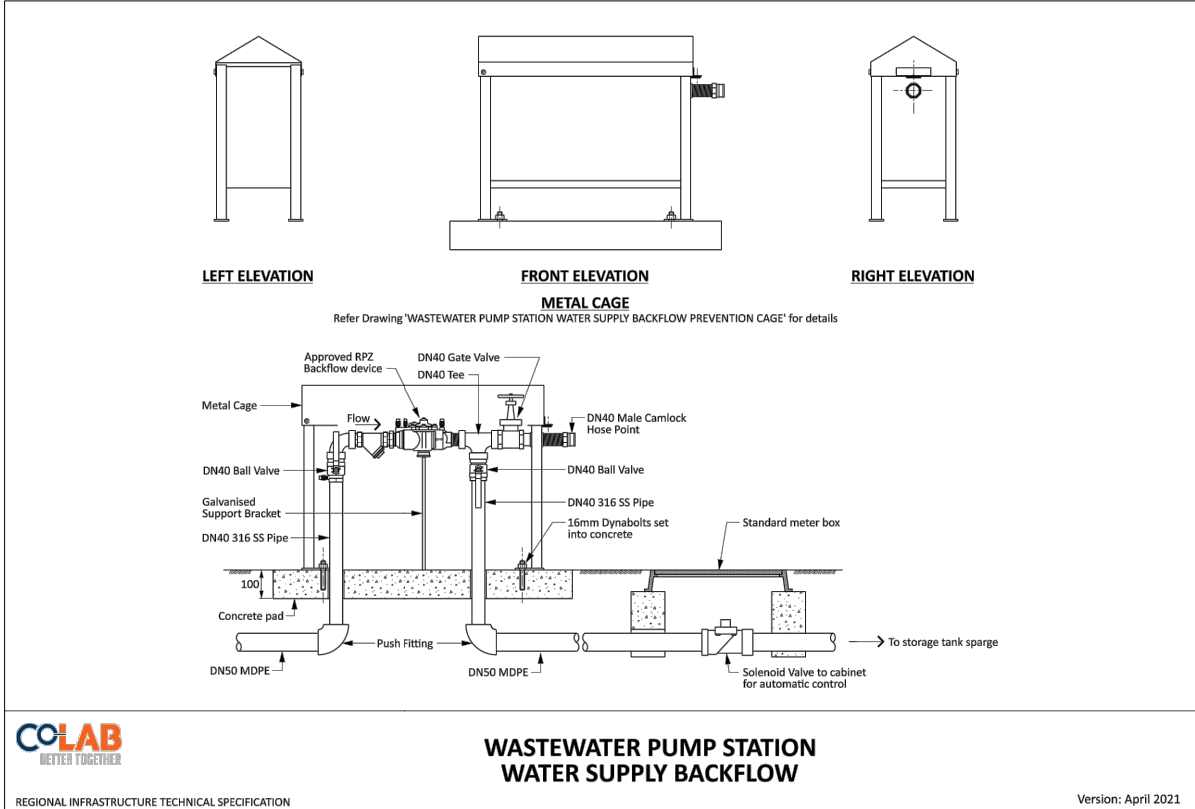
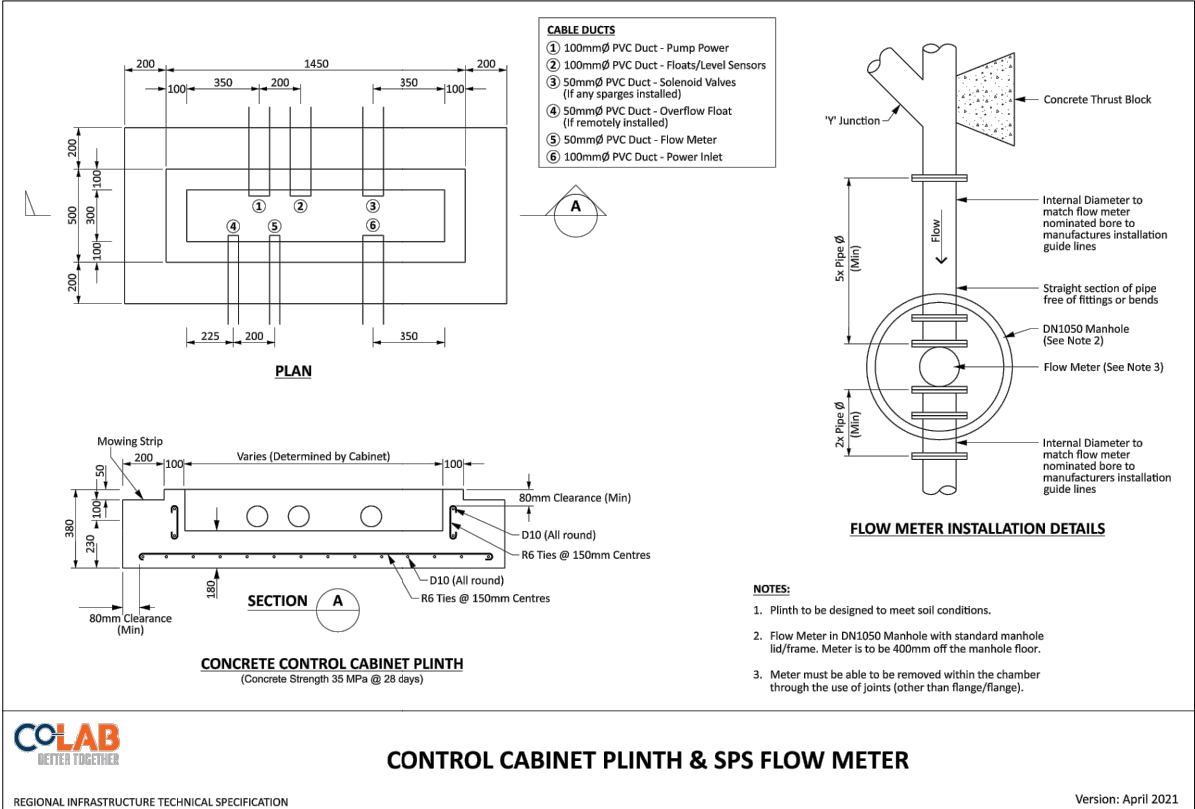
DATE: 05/06/2025



**Maven Matamata**  
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www.maven.co.nz  
8 Tainui Street, Matamata  
New Zealand



150mm  
100  
80  
80  
70  
60  
50  
40  
30  
20  
10  
0



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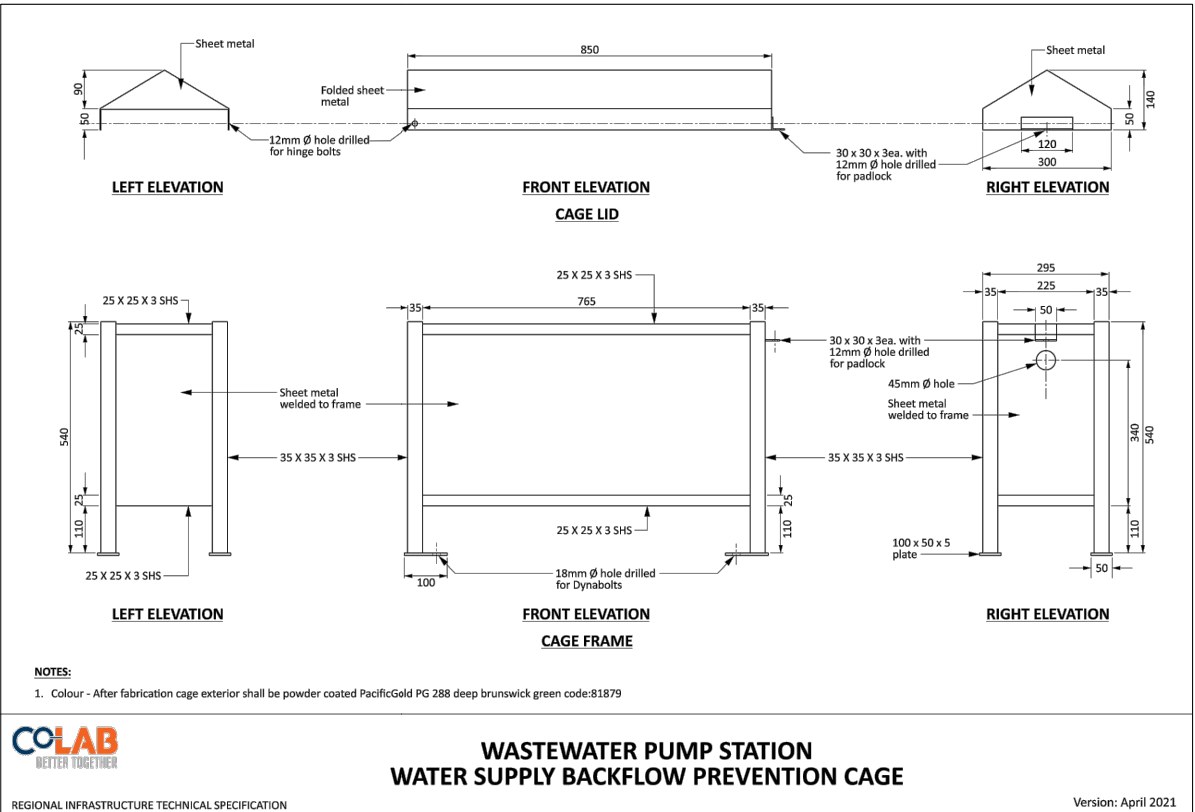
B	FOR CONSENT	MS	04/25
A	FOR REVIEW	MS	01/25
Rev	Description	By	Date
		By	Date
Survey	MAVEN		10/2024
Design	MS		12/2024
Drawn	MS		12/2024
Checked	SB		12/2024



Project  
**ASHBOURNE  
RETIREMENT VILLAGE  
MATAMATA  
FOR  
UNITY DEVELOPMENT LTD**

Title  
**PROPOSED WW  
STANDARD DETAIL PLAN  
SHEET 5 OF 5**

Project no.	J00606		
Scale	NTS		
Cad file	C5800 -WW SD DETAILS.DWG		
Drawing no.	C5804	Rev	<b>B</b>



FOR CONSENT

DATE: 05/02/2025

FILE: F:\MAVEN MATAMATA\1. Projects\J00606 UDL - Hemmings Station Rd\6. Drawing\2. CAD\3. Design\C5800 -WW SD DETAILS.dwg

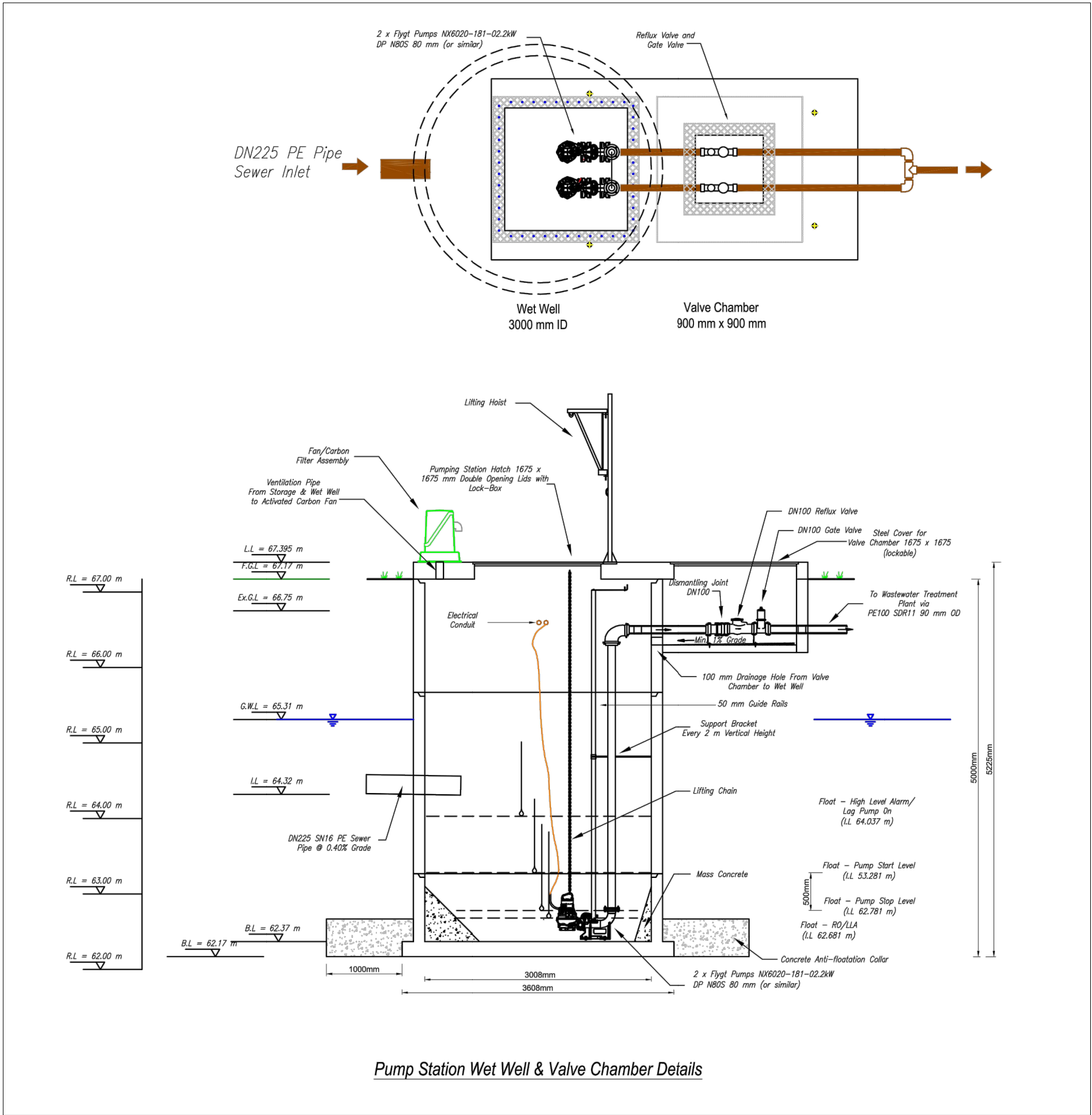


150mm  
100  
80  
60  
40  
30  
20  
10  
0

DATE: 05/06/2025

FILE: F:\MAVEN MATAMATA\1. Projects\J00606 UDL - Hemmings Station Rd\6. Drawing\2. CAD\3. Design\C5900 -WW PS SD DETAILS.dwg

ORIGINAL SIZE: A3



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A	FOR CONSENT	KQ	06/25
Rev	Description	By	Date
		By	Date
Survey	MAVEN		10/2024
Design	KQ		06/2025
Drawn	KQ		06/2025
Checked	SB		06/2025



Project  
**ASHBOURNE  
RETIREMENT VILLAGE  
MATAMATA  
FOR  
UNITY DEVELOPMENT LTD**

Title  
**PROPOSED WW  
PUMP STATION  
STANDARD DETAIL PLAN**

Project no.	J00606		
Scale	NTS		
Cad file	C5900 -WW PS SD DETAILS.DWG		
Drawing no.	C5900	Rev	<b>A</b>

**FOR CONSENT**