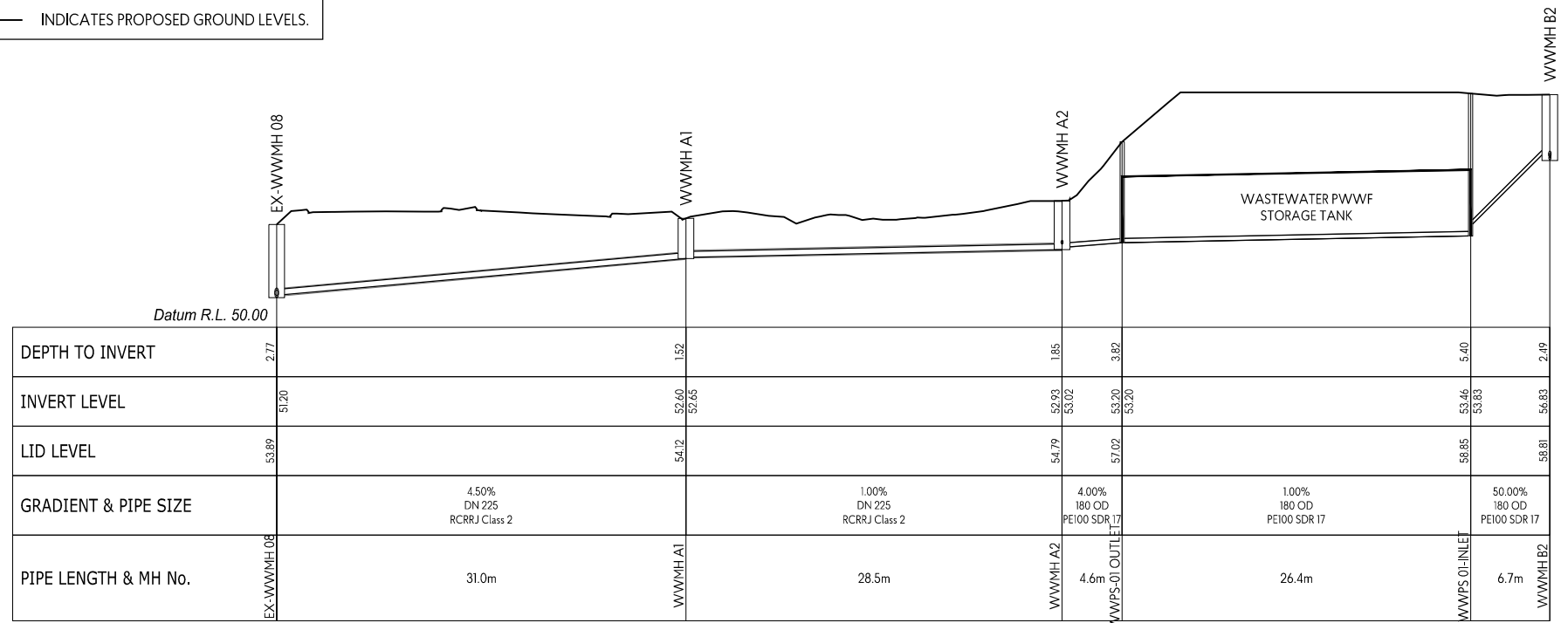
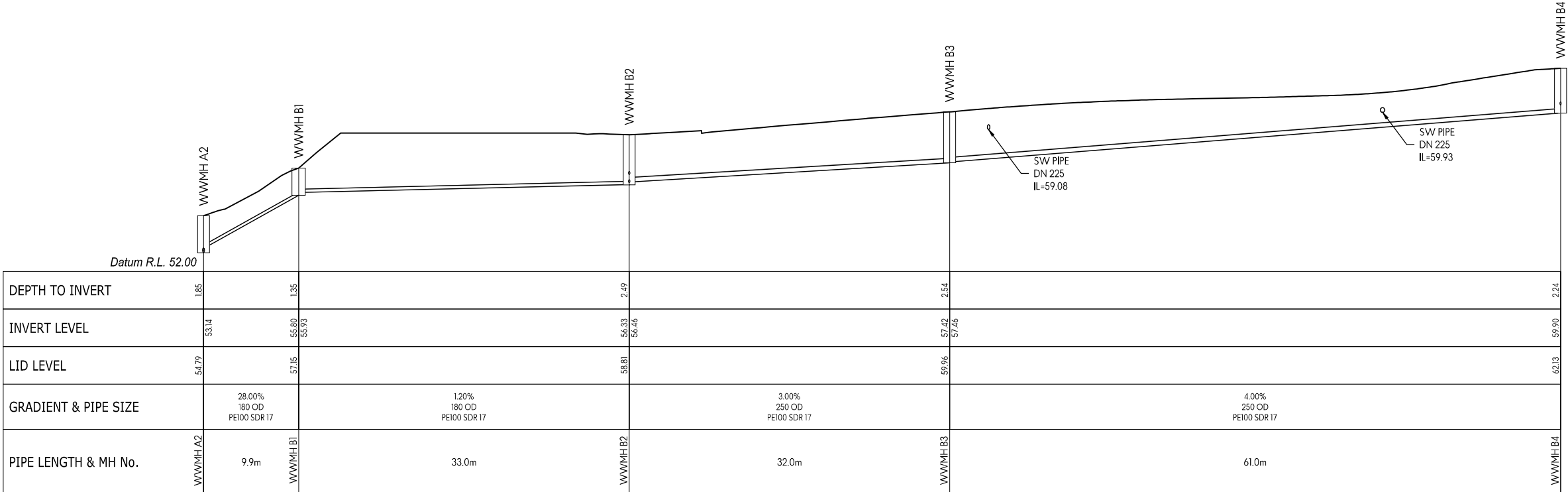


NOTES:
 1. LONG SECTIONS ARE SHOWN WITH A 2x VERTICAL EXAGGERATION.
 2. ——— INDICATES PROPOSED GROUND LEVELS.



WW LINE A



WW LINE B

This design and drawing shall only be used for the purpose for which it was supplied and shall not be altered or reproduced without the permission of Envelope Engineering Limited. No liability shall be accepted for unauthorised use of this design and drawing.

REV	NOTES	BY	DATE
R1	RESOURCE CONSENT ISSUE	PWJ	13-11-2025
R2	MINOR AMENDMENTS	PWJ	12-02-2026

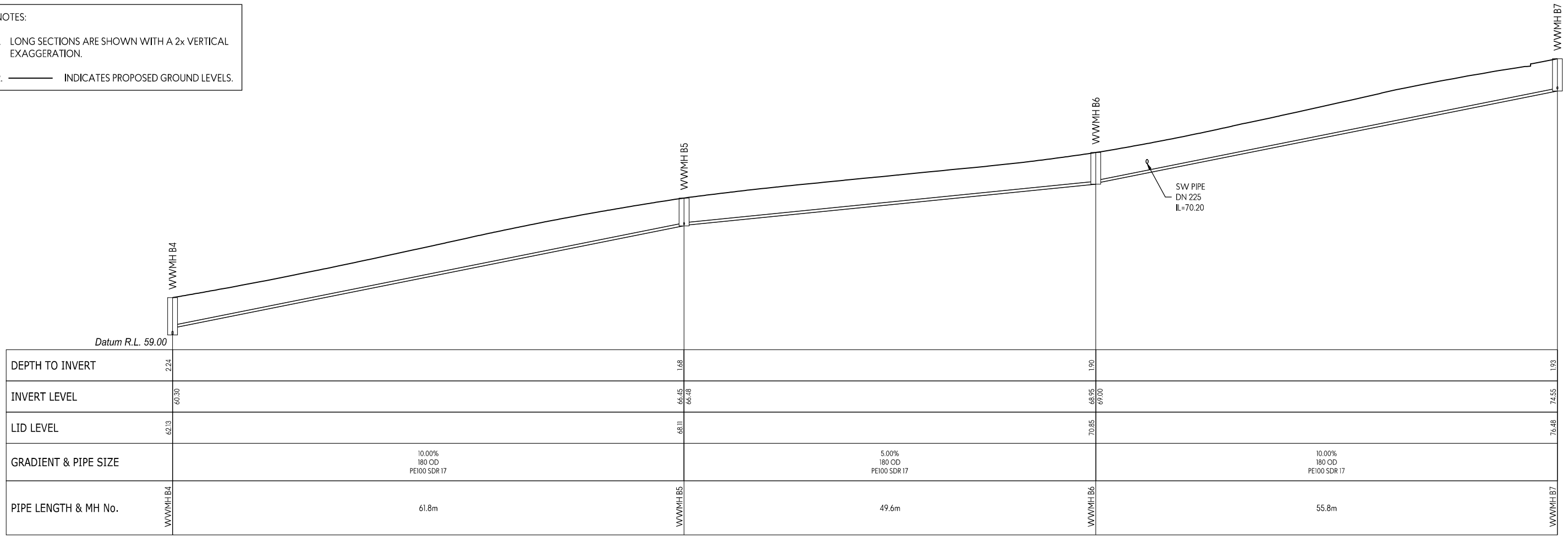
PROJECT:
 PUKERUA PROPERTY GROUP LP
 MT WELCOME - PUKERUA BAY
 PORIRUA

TITLE:
 PROPOSED DRAINAGE
 WASTEWATER LONG-SECTIONS
 SHEET 1 OF 42

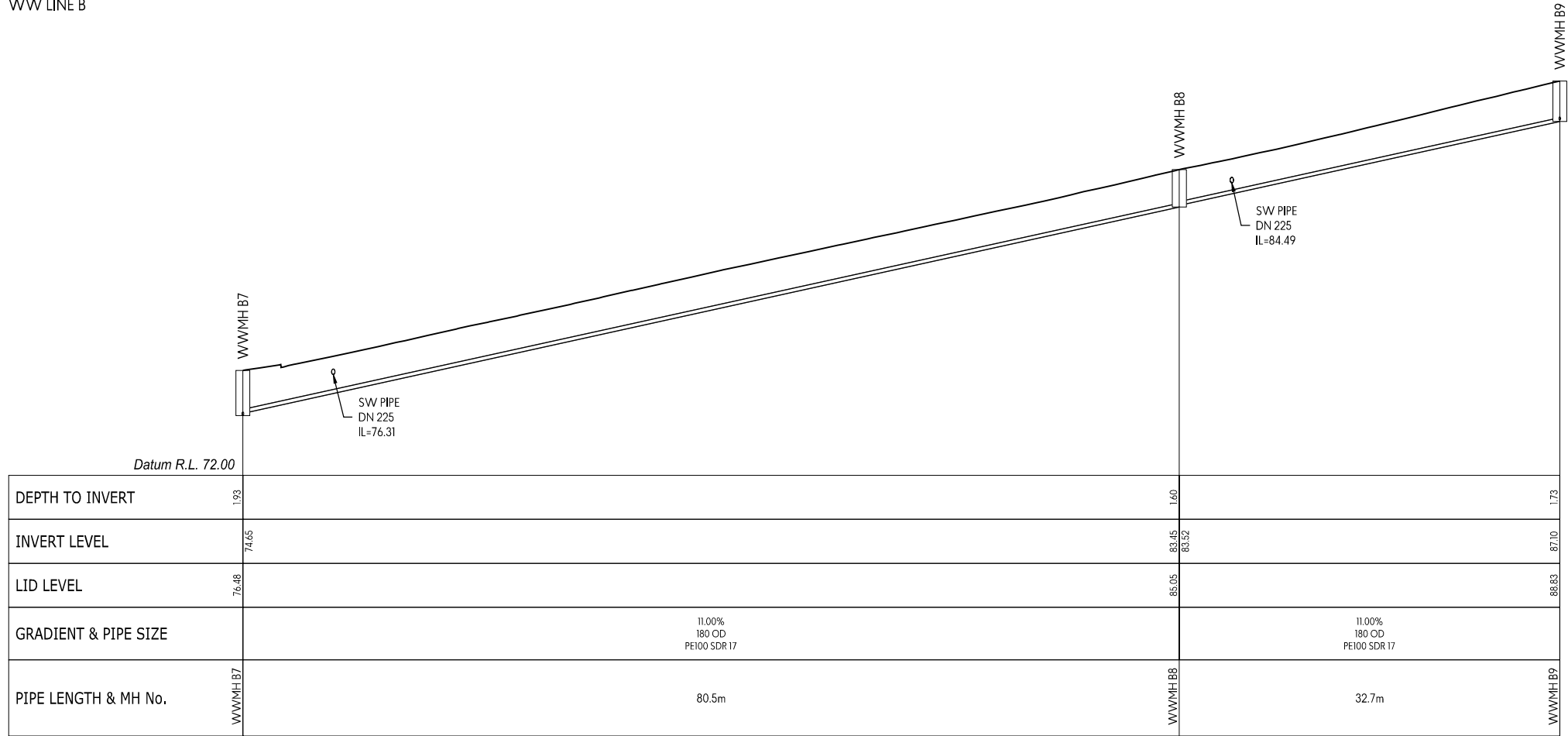


DESIGNED: PWJ DRAWN: LB
 CHECKED: KD PLOT DATE: 12-02-2026
 SCALE A1: 1:250 SCALE A3: 1:500
 STATUS: RESOURCE CONSENT
 PROJECT No: 1753-02 DRAWING No: 4400 REVISION: R2

- NOTES:
- LONG SECTIONS ARE SHOWN WITH A 2x VERTICAL EXAGGERATION.
 - INDICATES PROPOSED GROUND LEVELS.



WW LINE B



WW LINE B

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REV	NOTES	BY	DATE
R1	RESOURCE CONSENT ISSUE	PWJ	13-11-2025
R2	MINOR AMENDMENTS	PWJ	12-02-2026

PROJECT:
**PUKERUA PROPERTY GROUP LP
 MT WELCOME - PUKERUA BAY
 PORIRUA**

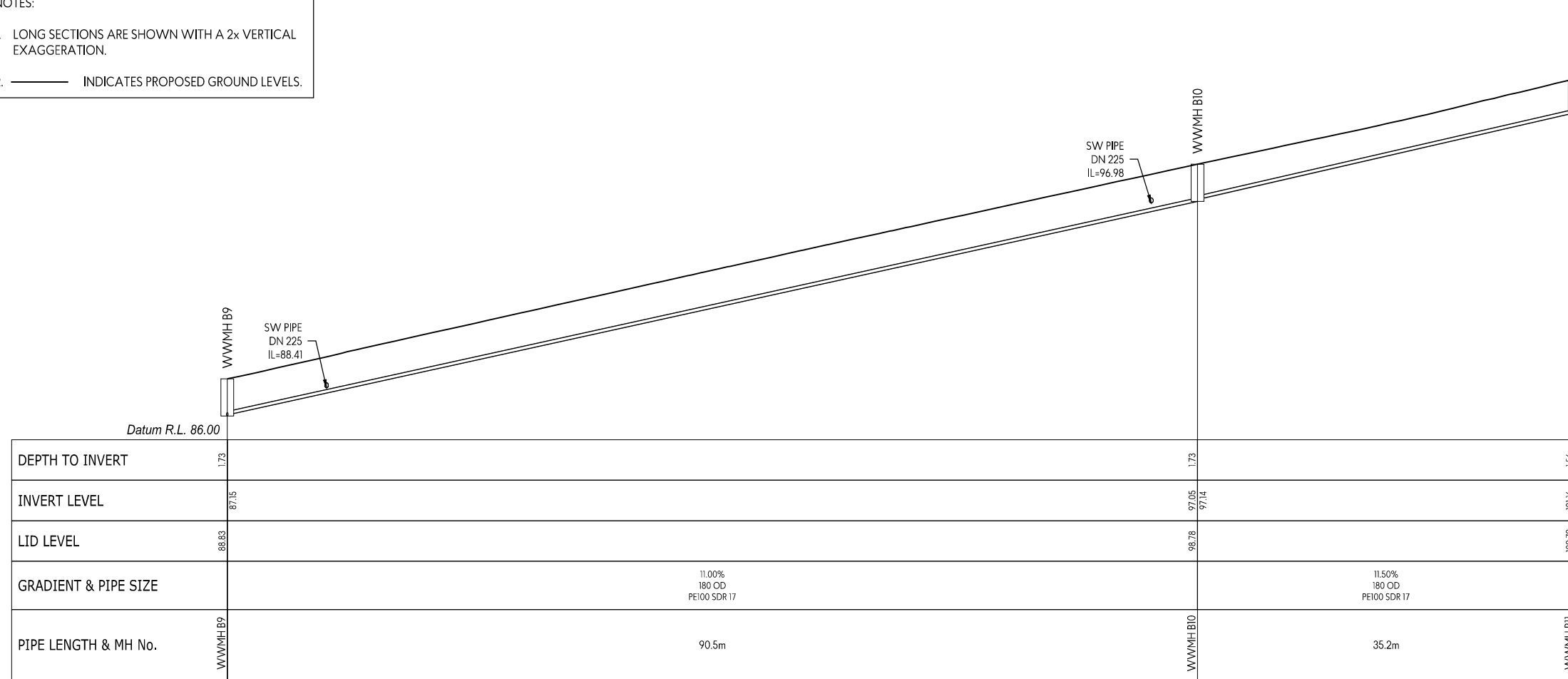
TITLE:
**PROPOSED DRAINAGE
 WASTEWATER LONG-SECTIONS
 SHEET 2 OF 42**



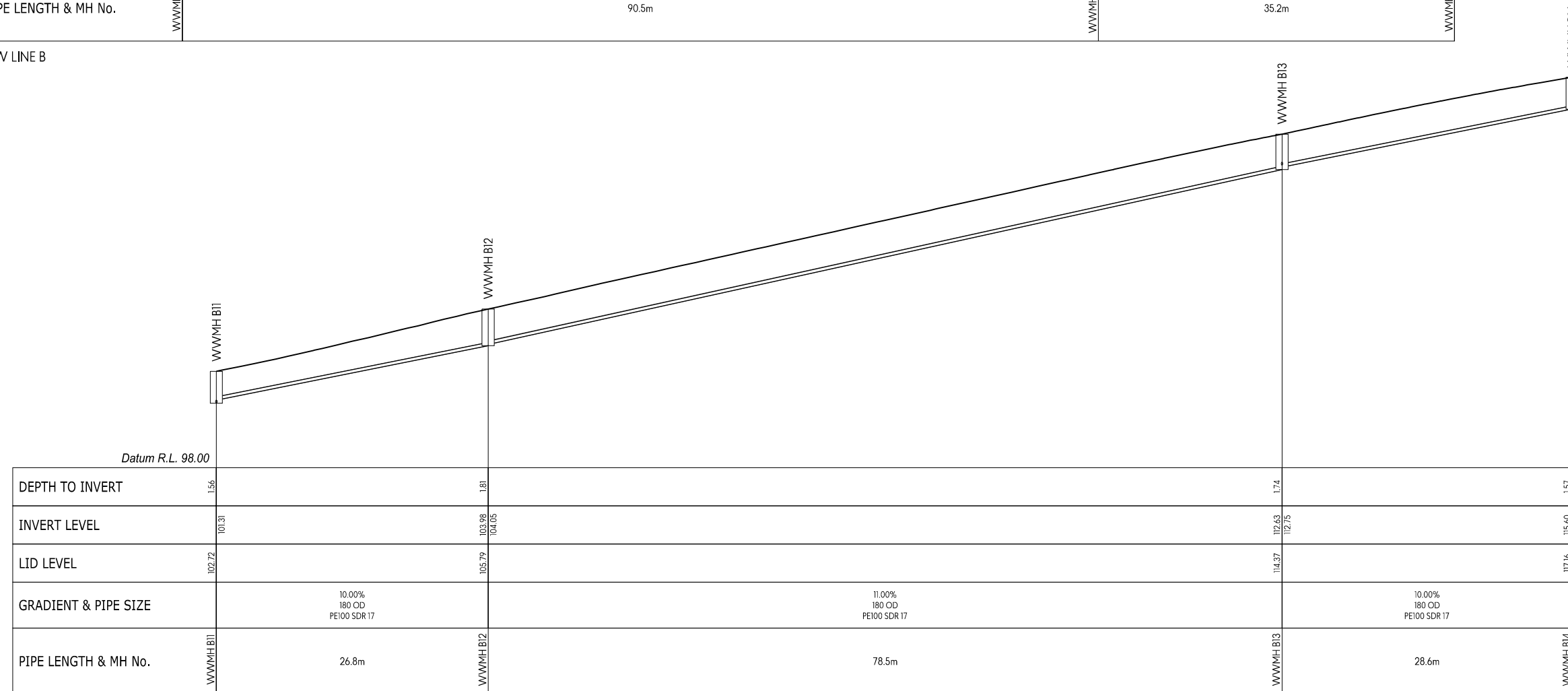
DESIGNED: PWJ DRAWN: LB
 CHECKED: KD PLOT DATE: 12-02-2026
 SCALE A1: 1:250 SCALE A3: 1:500
 STATUS: RESOURCE CONSENT
 PROJECT No: **1753-02** DRAWING No: **4401** REVISION: **R2**

NOTES:

- LONG SECTIONS ARE SHOWN WITH A 2x VERTICAL EXAGGERATION.
- INDICATES PROPOSED GROUND LEVELS.



WW LINE B



WW LINE B

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REV	NOTES	BY	DATE
R1	RESOURCE CONSENT ISSUE	PWJ	13-11-2025
R2	MINOR AMENDMENTS	PWJ	12-02-2026

PROJECT:
 PUKERUA PROPERTY GROUP LP
 MT WELCOME - PUKERUA BAY
 PORIRUA

TITLE:
 PROPOSED DRAINAGE
 WASTEWATER LONG-SECTIONS
 SHEET 3 OF 42



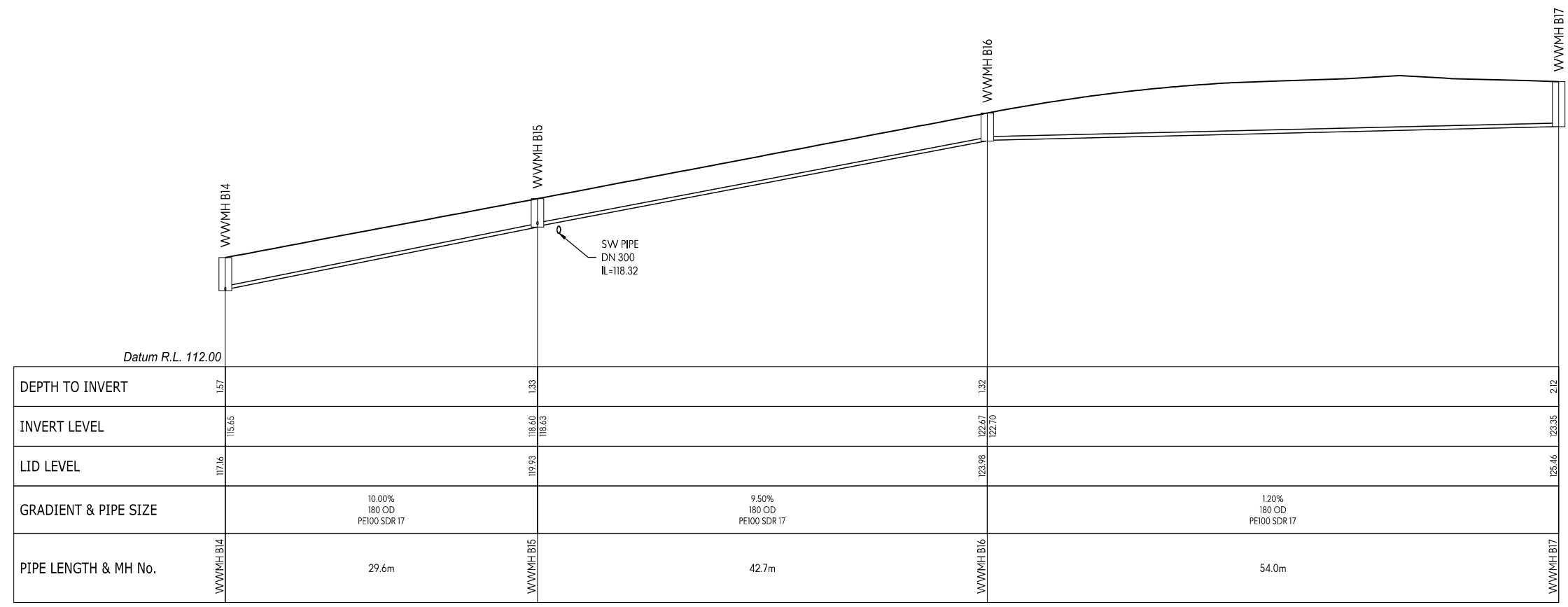
DESIGNED: PWJ
 CHECKED: KD
 DRAWN: LB
 PLOT DATE: 12-02-2026

SCALE A1: 1:250
 SCALE A3: 1:500

STATUS: RESOURCE CONSENT

PROJECT No: 1753-02
 DRAWING No: 4402
 REVISION: R2

- NOTES:
- LONG SECTIONS ARE SHOWN WITH A 2x VERTICAL EXAGGERATION.
 - INDICATES PROPOSED GROUND LEVELS.



WW LINE B

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REVISIONS:

REV	NOTES	BY	DATE
R1	RESOURCE CONSENT ISSUE	PWJ	13-11-2025
R2	MINOR AMENDMENTS	PWJ	12-02-2026

PROJECT:
 PUKERUA PROPERTY GROUP LP
 MT WELCOME - PUKERUA BAY
 PORIRUA

TITLE:
 PROPOSED DRAINAGE
 WASTEWATER LONG-SECTIONS
 SHEET 4 OF 42

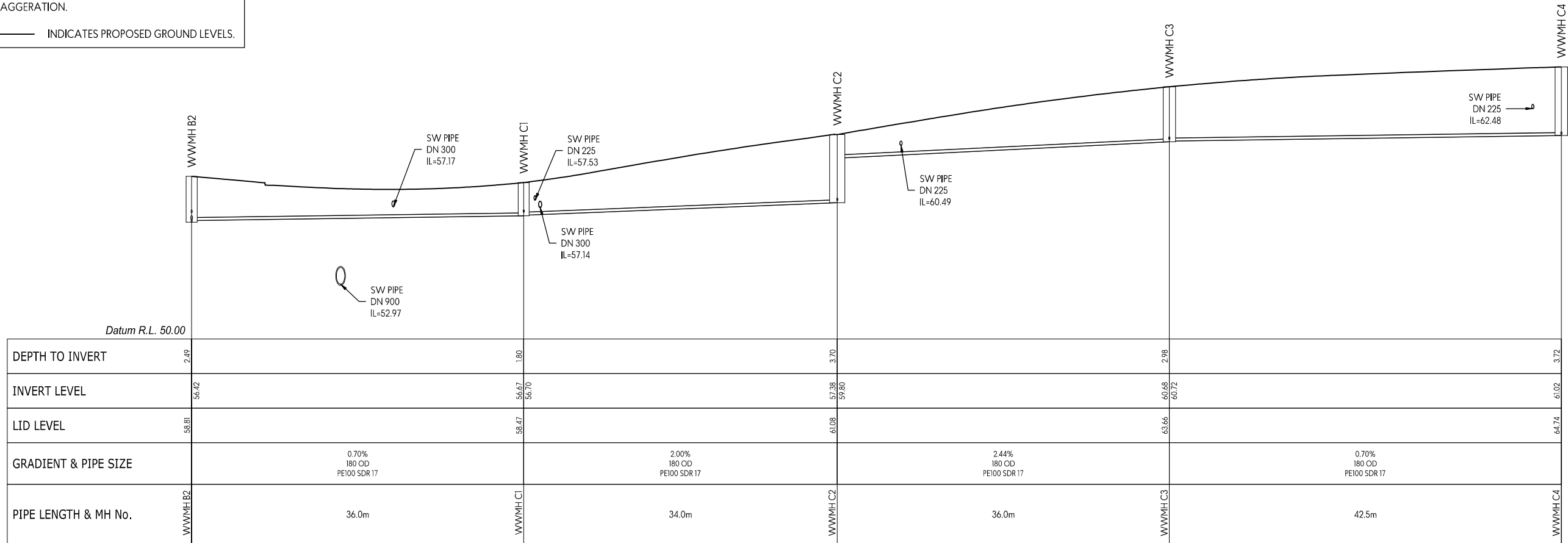


DESIGNED: PWJ
 CHECKED: KD
 SCALE A1: 1:250
 STATUS: RESOURCE CONSENT
 PROJECT No: 1753-02

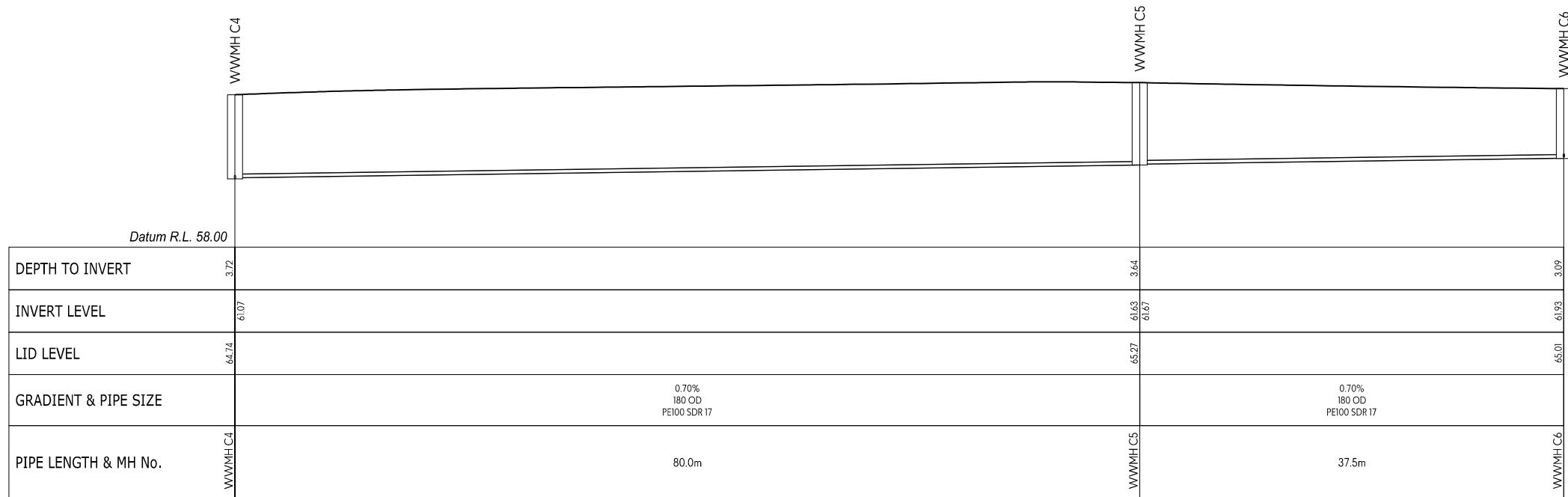
DRAWN: LB
 PLOT DATE: 12-02-2026
 SCALE A3: 1:500
 DRAWING No: 4403

REVISION: R2

- NOTES:
- LONG SECTIONS ARE SHOWN WITH A 2x VERTICAL EXAGGERATION.
 - INDICATES PROPOSED GROUND LEVELS.



WW LINE C



WW LINE C

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REV	NOTES	BY	DATE
R1	RESOURCE CONSENT ISSUE	PWJ	13-11-2025
R2	MINOR AMENDMENTS	PWJ	12-02-2026

PROJECT:
 PUKERUA PROPERTY GROUP LP
 MT WELCOME - PUKERUA BAY
 PORIRUA

TITLE:
 PROPOSED DRAINAGE
 WASTEWATER LONG-SECTIONS
 SHEET 5 OF 42



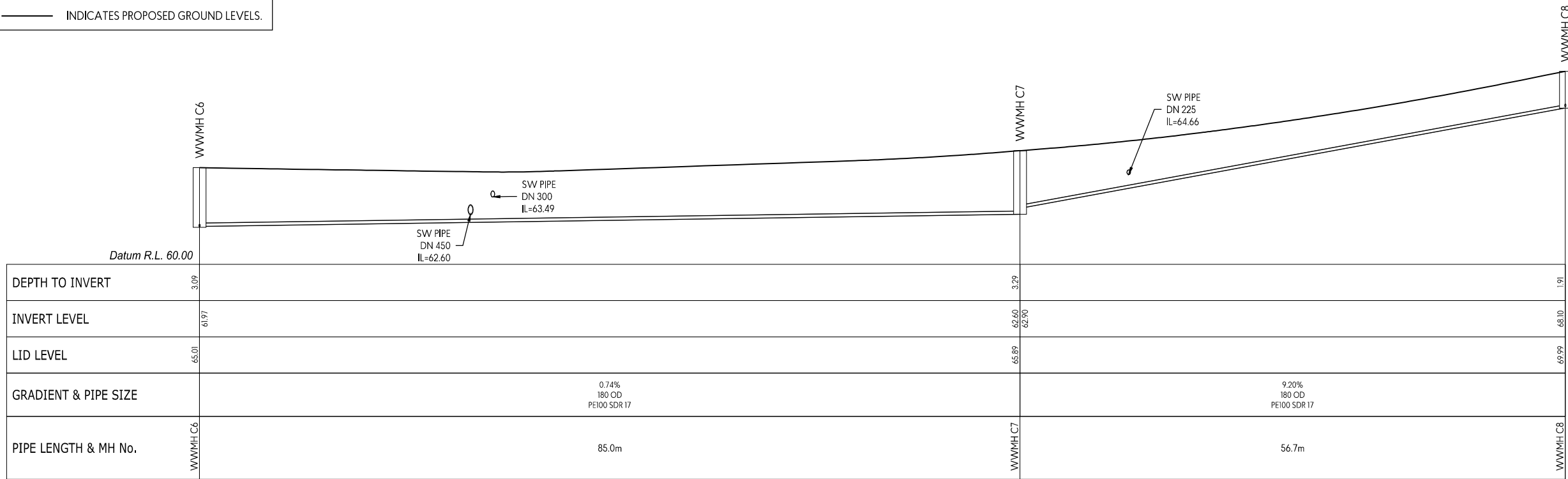
DESIGNED: PWJ
 CHECKED: KD
 SCALE A1: 1:250
 STATUS: RESOURCE CONSENT
 PROJECT No: 1753-02

DRAWN: LB
 PLOT DATE: 12-02-2026
 SCALE A3: 1:500
 DRAWING No: 4404

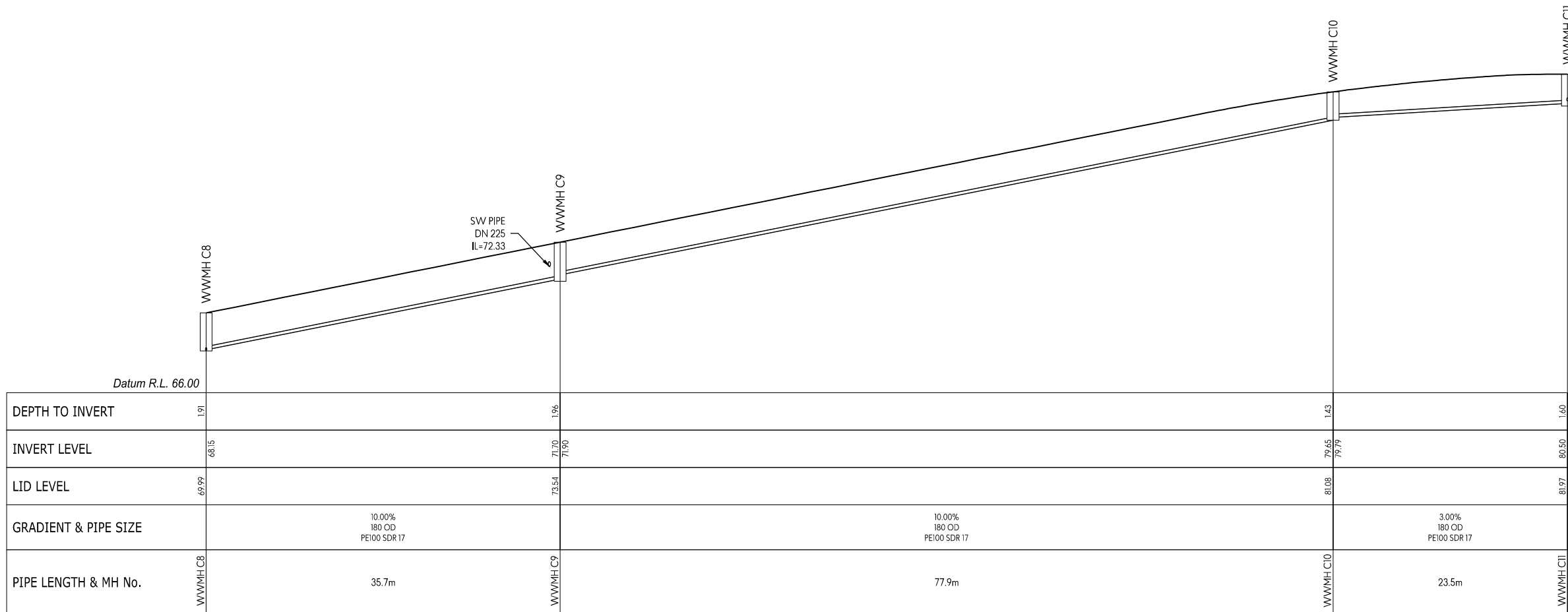
REVISION: R2

NOTES:

- LONG SECTIONS ARE SHOWN WITH A 2x VERTICAL EXAGGERATION.
- INDICATES PROPOSED GROUND LEVELS.



WW LINE C



WW LINE C

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REV	NOTES	BY	DATE
R1	RESOURCE CONSENT ISSUE	PWJ	13-11-2025
R2	MINOR AMENDMENTS	PWJ	12-02-2026

PROJECT:
 PUKERUA PROPERTY GROUP LP
 MT WELCOME - PUKERUA BAY
 PORIRUA

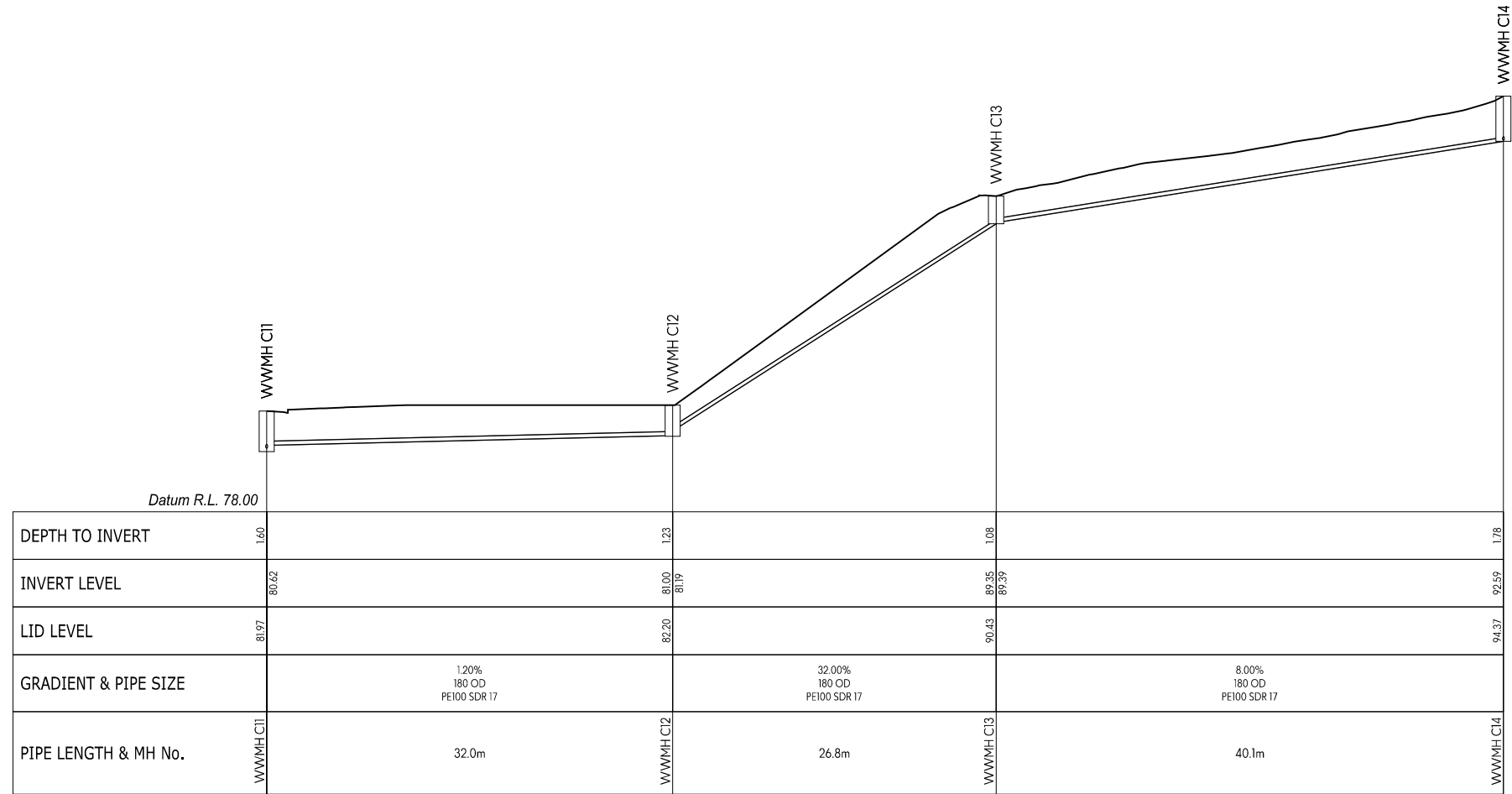
TITLE:
 PROPOSED DRAINAGE
 WASTEWATER LONG-SECTIONS
 SHEET 6 OF 42



DESIGNED: PWJ DRAWN: LB
 CHECKED: KD PLOT DATE: 12-02-2026
 SCALE A1: 1:250 SCALE A3: 1:500
 STATUS: RESOURCE CONSENT
 PROJECT No: 1753-02 DRAWING No: 4405 REVISION: R2

NOTES:

1. LONG SECTIONS ARE SHOWN WITH A 2x VERTICAL EXAGGERATION.
2. ——— INDICATES PROPOSED GROUND LEVELS.



WW LINE C

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REV	NOTES	BY	DATE
R1	RESOURCE CONSENT ISSUE	PWJ	13-11-2025
R2	MINOR AMENDMENTS	PWJ	12-02-2026

PROJECT:
 PUKERUA PROPERTY GROUP LP
 MT WELCOME - PUKERUA BAY
 PORIRUA

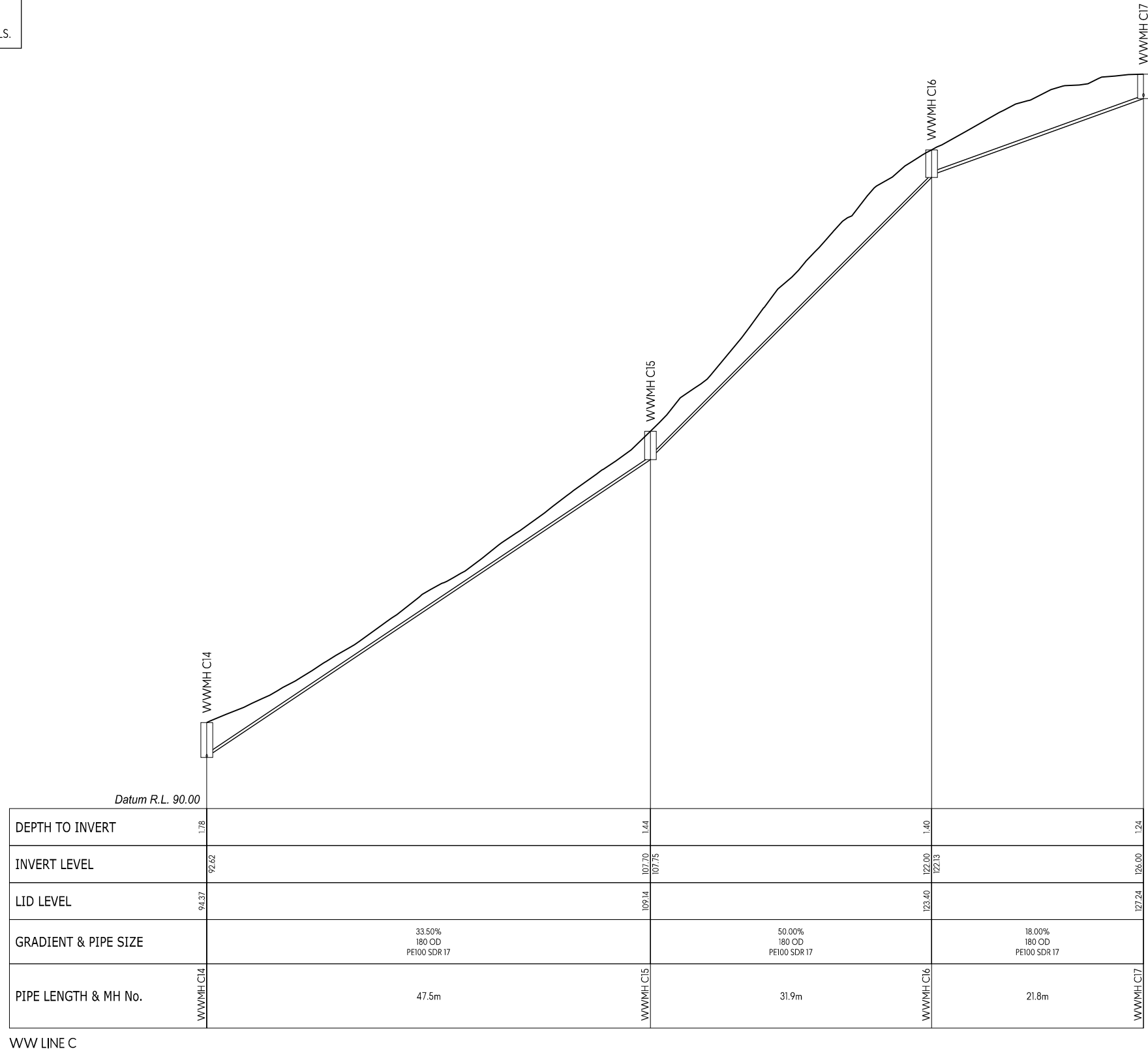
TITLE:
 PROPOSED DRAINAGE
 WASTEWATER LONG-SECTIONS
 SHEET 7 OF 42



DESIGNED: PWJ DRAWN: LB
 CHECKED: KD PLOT DATE: 12-02-2026
 SCALE A1: 1:250 SCALE A3: 1:500
 STATUS: RESOURCE CONSENT
 PROJECT No: 1753-02 DRAWING No: 4406 REVISION: R2

NOTES:

1. LONG SECTIONS ARE SHOWN WITH A 2x VERTICAL EXAGGERATION.
2. ——— INDICATES PROPOSED GROUND LEVELS.



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REVISIONS:			
REV	NOTES	BY	DATE
R1	RESOURCE CONSENT ISSUE	PWJ	13-11-2025
R2	MINOR AMENDMENTS	PWJ	12-02-2026

PROJECT:
PUKERUA PROPERTY GROUP LP
MT WELCOME - PUKERUA BAY
PORIRUA

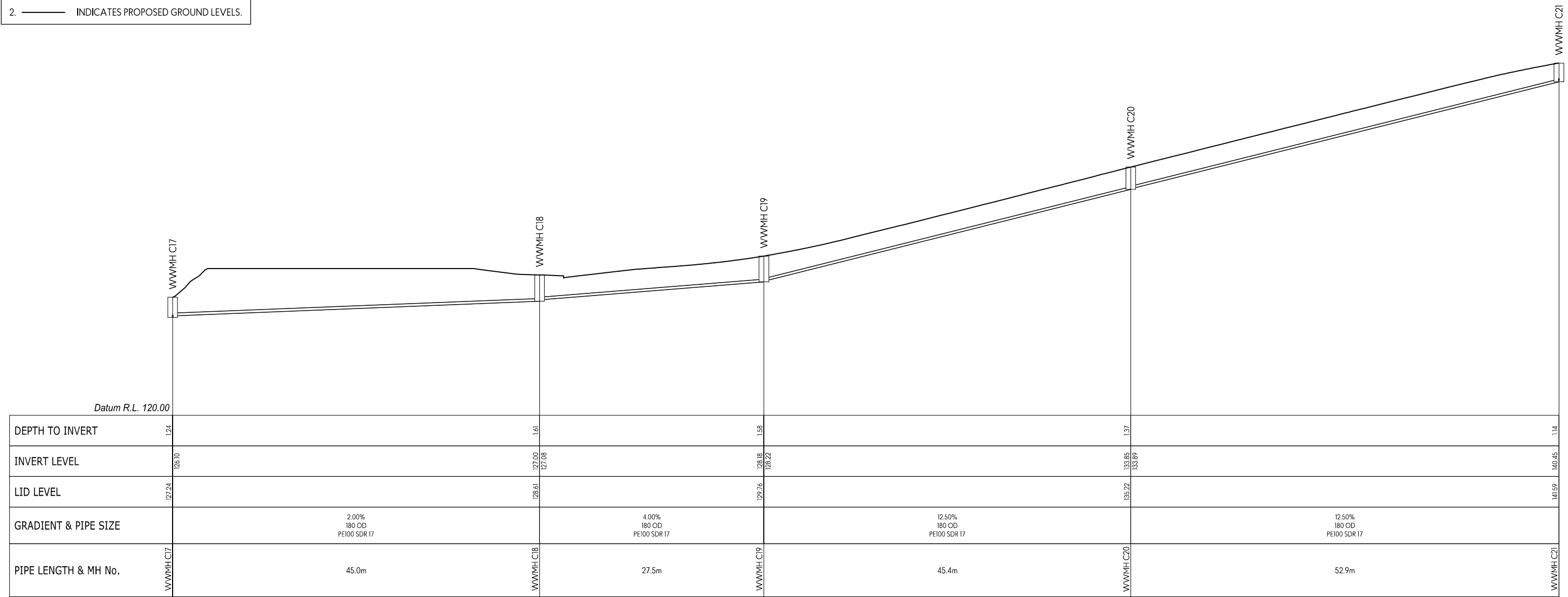
TITLE:
PROPOSED DRAINAGE
WASTEWATER LONG-SECTIONS
SHEET 8 OF 42



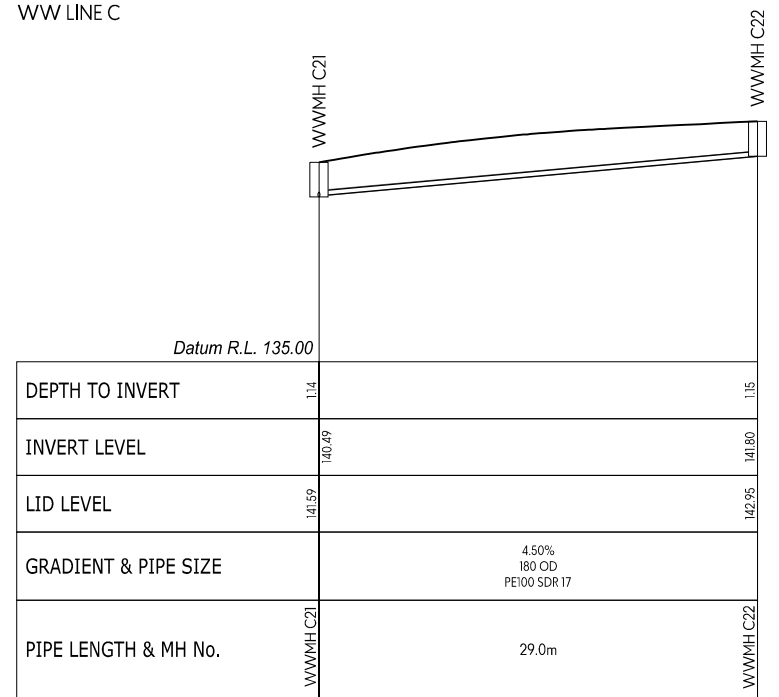
DESIGNED: PWJ DRAWN: LB
 CHECKED: KD PLOT DATE: 12-02-2026
 SCALE A1: 1:250 SCALE A3: 1:500
 STATUS: RESOURCE CONSENT

PROJECT No: **1753-02** DRAWING No: **4407** REVISION: **R2**

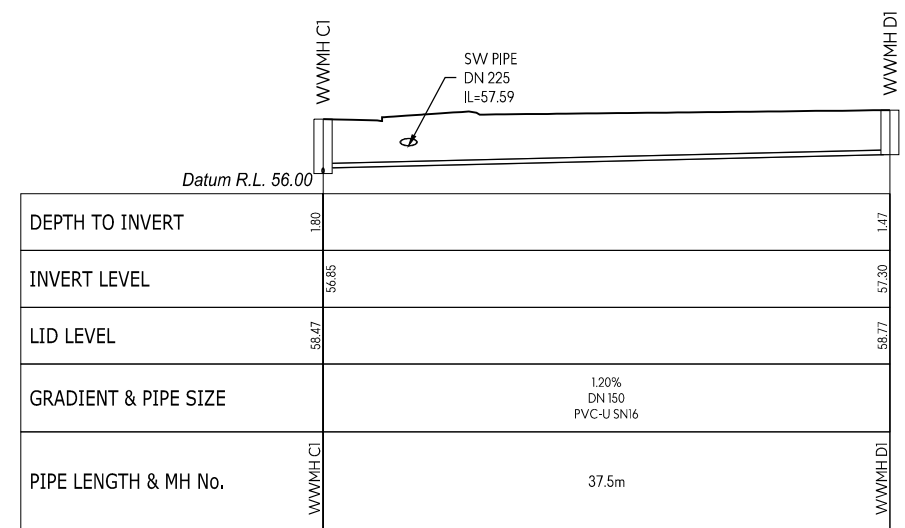
NOTES:
 1. LONG SECTIONS ARE SHOWN WITH A 2x VERTICAL EXAGGERATION.
 2. ——— INDICATES PROPOSED GROUND LEVELS.



WW LINE C



WW LINE C



WW LINE D

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REV	NOTES	BY	DATE
R1	RESOURCE CONSENT ISSUE	PWJ	13-11-2025
R2	MINOR AMENDMENTS	PWJ	12-02-2026

PROJECT:
 PUKERUA PROPERTY GROUP LP
 MT WELCOME - PUKERUA BAY
 PORIRUA

TITLE:
 PROPOSED DRAINAGE
 WASTEWATER LONG-SECTIONS
 SHEET 9 OF 42



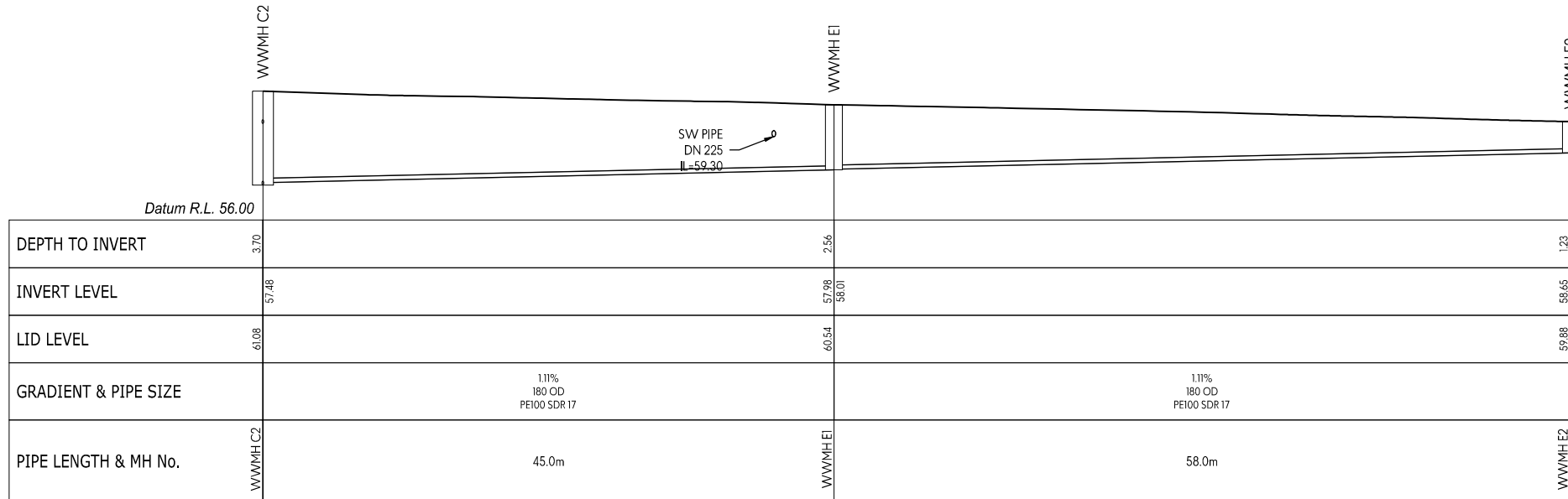
DESIGNED: PWJ
 CHECKED: KD
 SCALE A1: 1:250
 STATUS: RESOURCE CONSENT
 PROJECT No: 1753-02

DRAWN: LB
 PLOT DATE: 12-02-2026
 SCALE A3: 1:500
 DRAWING No: 4408

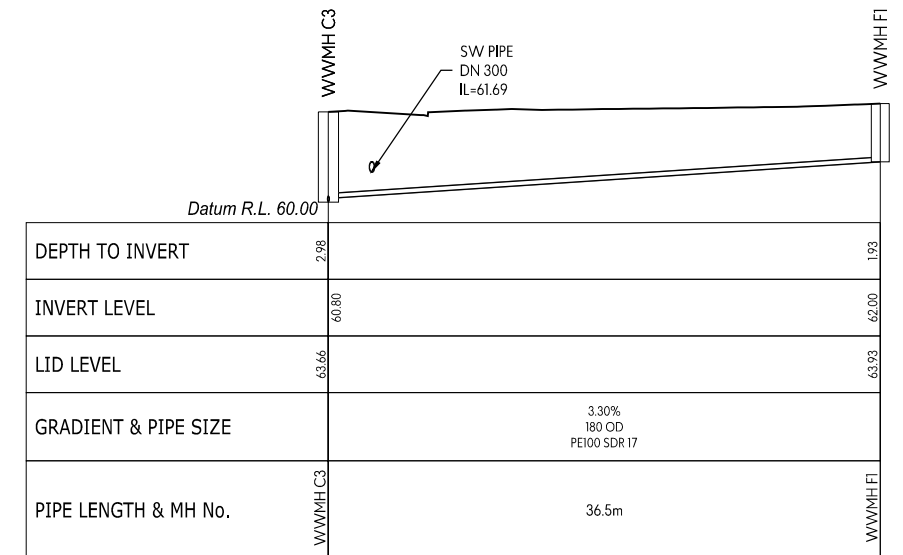
REVISION: R2

NOTES:

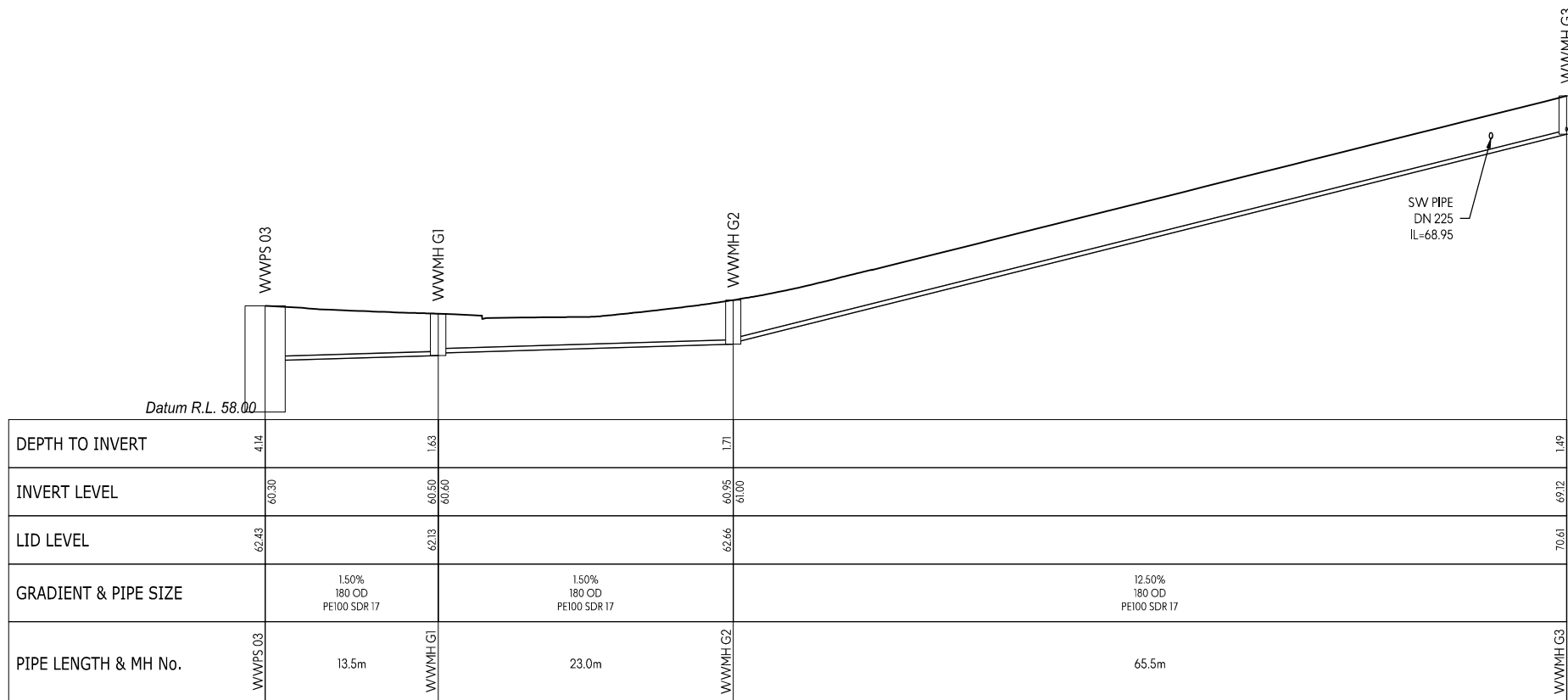
- LONG SECTIONS ARE SHOWN WITH A 2x VERTICAL EXAGGERATION.
- INDICATES PROPOSED GROUND LEVELS.



WW LINE E



WW LINE F



WW LINE G

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REV	NOTES	BY	DATE
R1	RESOURCE CONSENT ISSUE	PWJ	13-11-2025
R2	MINOR AMENDMENTS	PWJ	12-02-2026

PROJECT:

PUKERUA PROPERTY GROUP LP
MT WELCOME - PUKERUA BAY
PORIRUA

TITLE:

PROPOSED DRAINAGE
WASTEWATER LONG-SECTIONS
SHEET 10 OF 42



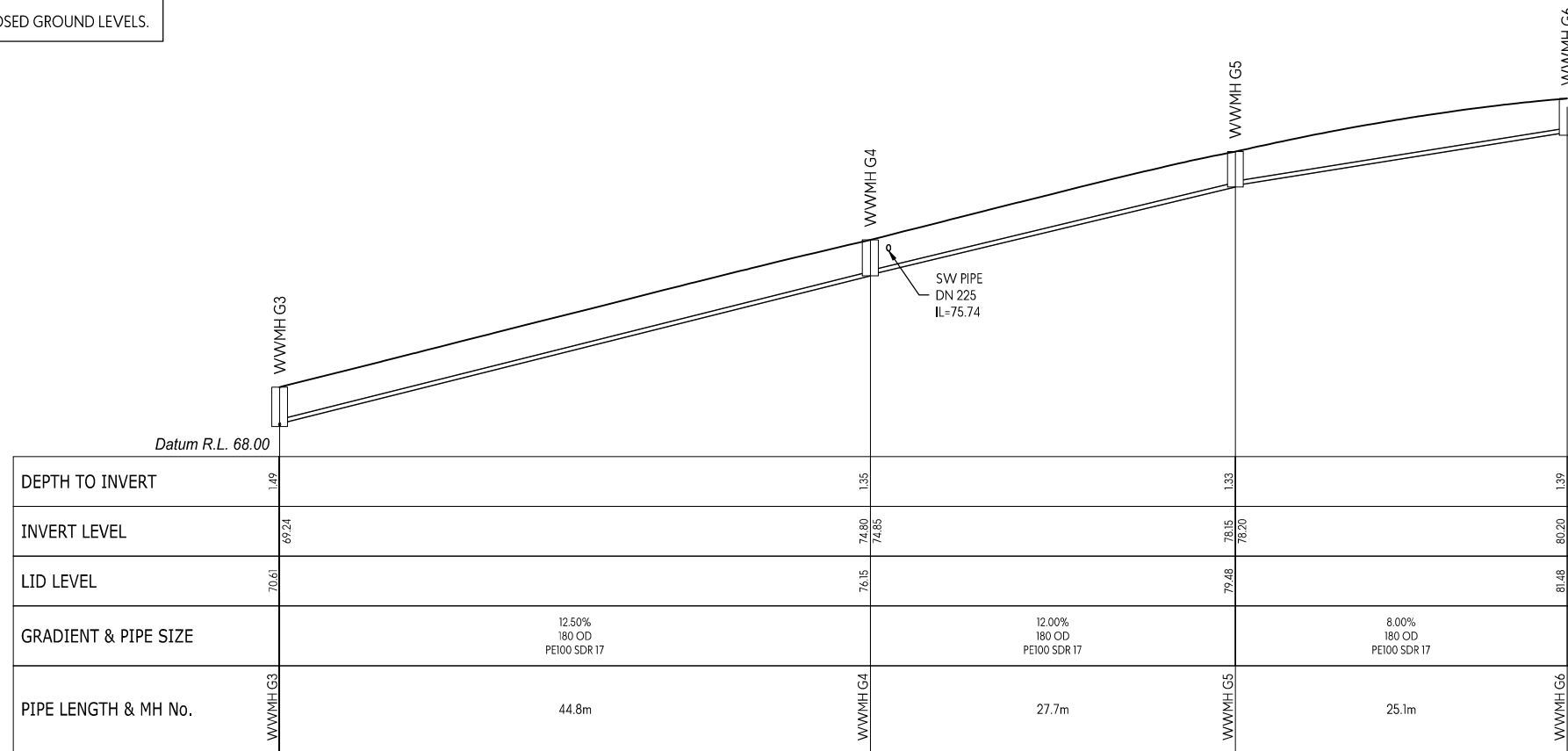
DESIGNED: PWJ
CHECKED: KD
SCALE A1: 1:250
STATUS: RESOURCE CONSENT

DRAWN: LB
PLOT DATE: 12-02-2026
SCALE A3: 1:500

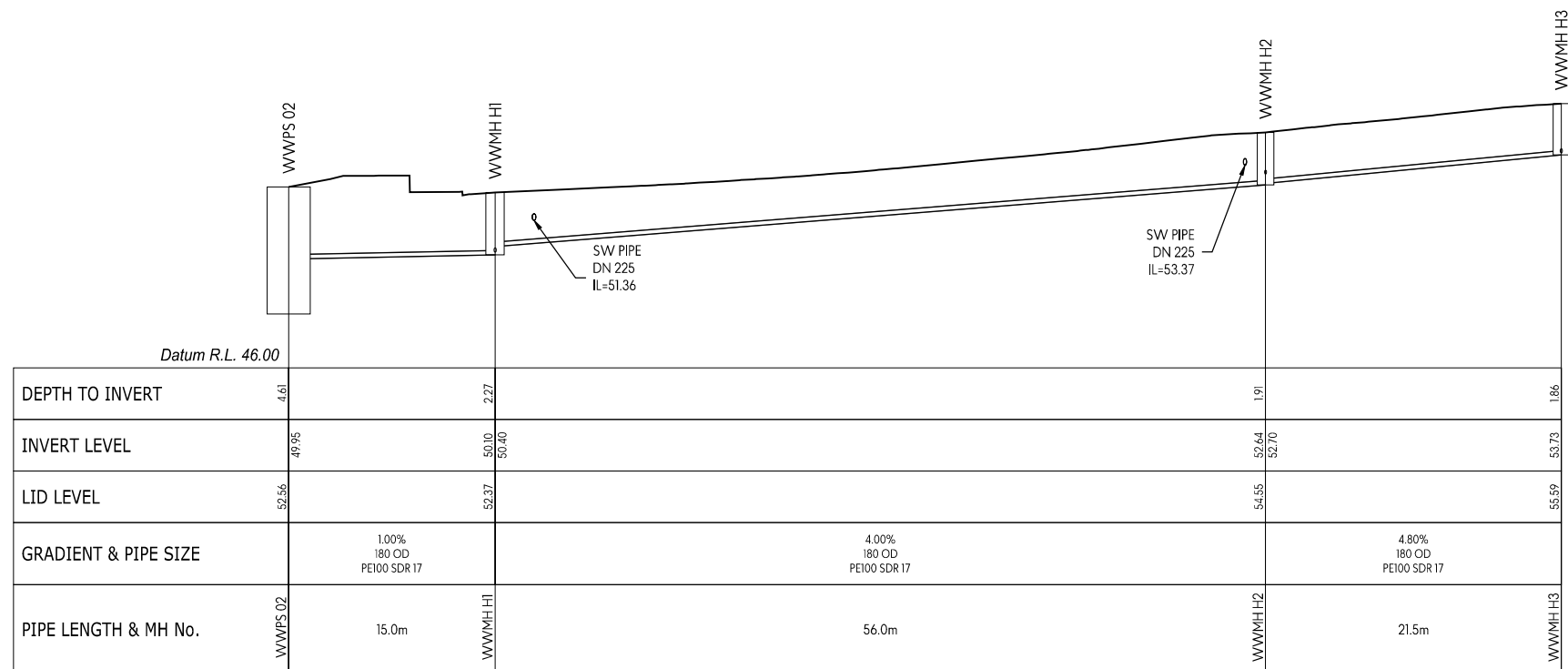
PROJECT No: 1753-02
DRAWING No: 4409
REVISION: R2

NOTES:

1. LONG SECTIONS ARE SHOWN WITH A 2x VERTICAL EXAGGERATION.
2. ——— INDICATES PROPOSED GROUND LEVELS.



WW LINE G



WW LINE H

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REV	NOTES	BY	DATE
R1	RESOURCE CONSENT ISSUE	PWJ	13-11-2025
R2	MINOR AMENDMENTS	PWJ	12-02-2026

PROJECT:
 PUKERUA PROPERTY GROUP LP
 MT WELCOME - PUKERUA BAY
 PORIRUA

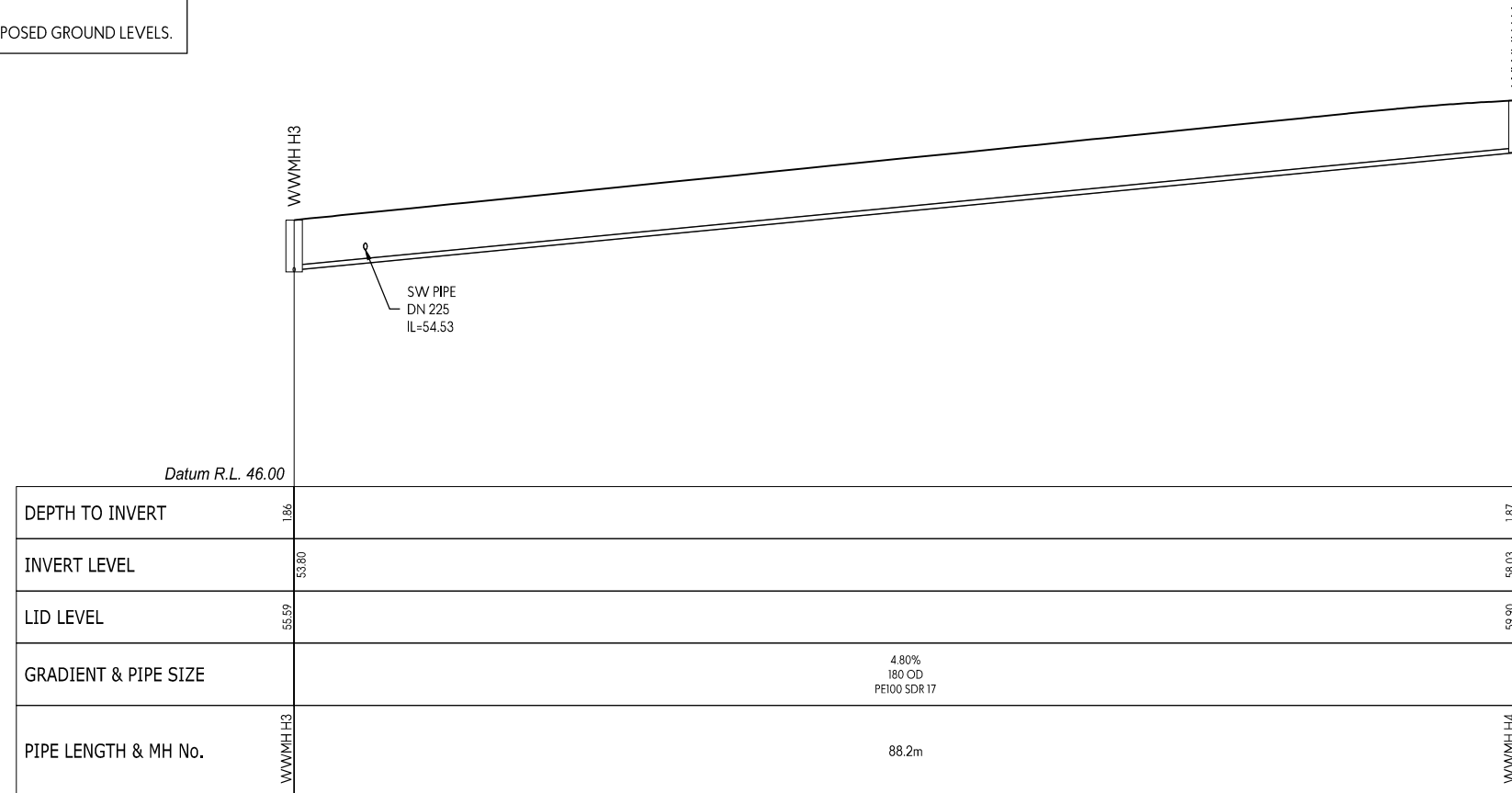
TITLE:
 PROPOSED DRAINAGE
 WASTEWATER LONG-SECTIONS
 SHEET 11 OF 42



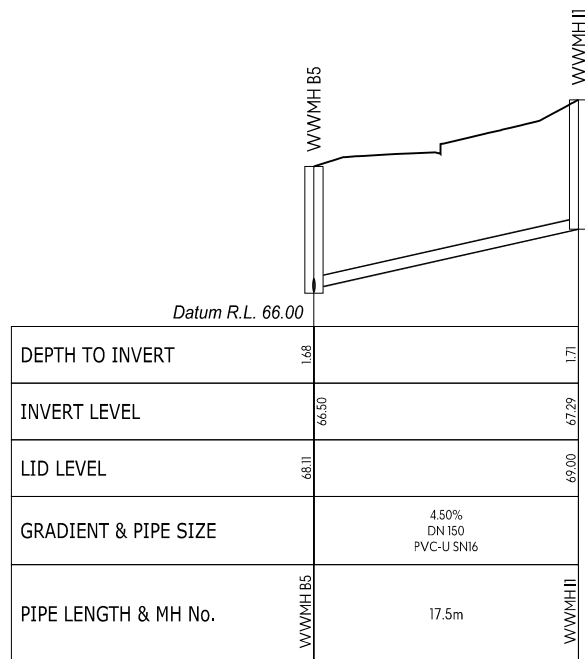
DESIGNED: PWJ DRAWN: LB
 CHECKED: KD PLOT DATE: 12-02-2026
 SCALE A1: 1:250 SCALE A3: 1:500
 STATUS: RESOURCE CONSENT
 PROJECT No: 1753-02 DRAWING No: 4410 REVISION: R2

NOTES:

1. LONG SECTIONS ARE SHOWN WITH A 2x VERTICAL EXAGGERATION.
2. ——— INDICATES PROPOSED GROUND LEVELS.



WW LINE H



WW LINE I

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REVISIONS:			
REV	NOTES	BY	DATE
R1	RESOURCE CONSENT ISSUE	PWJ	13-11-2025
R2	MINOR AMENDMENTS	PWJ	12-02-2026

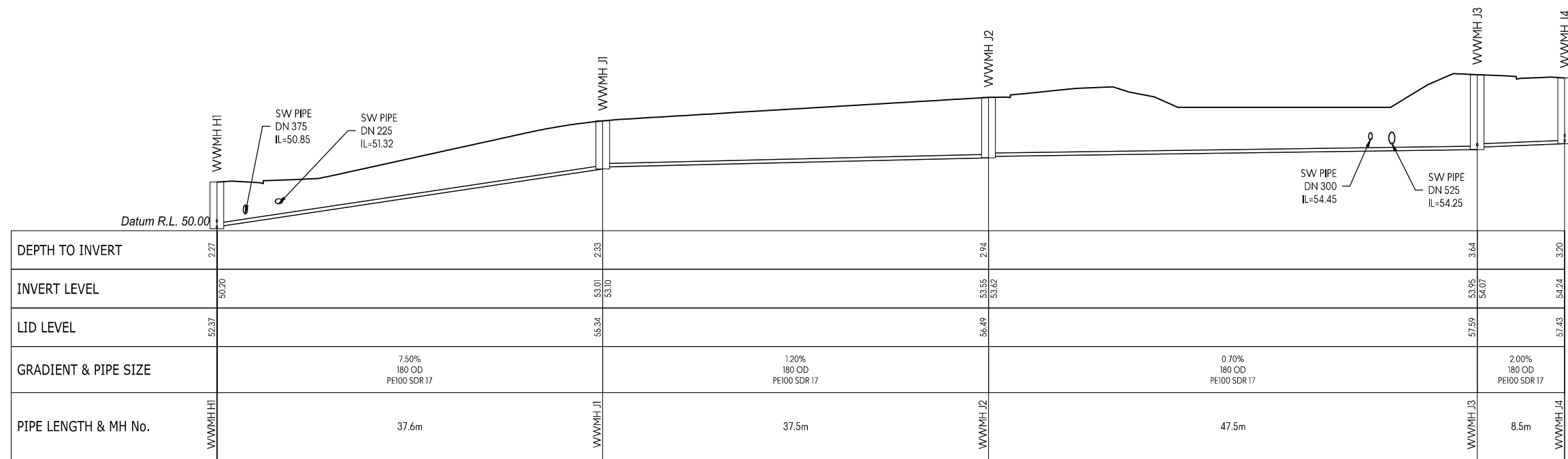
PROJECT:
 PUKERUA PROPERTY GROUP LP
 MT WELCOME - PUKERUA BAY
 PORIRUA

TITLE:
 PROPOSED DRAINAGE
 WASTEWATER LONG-SECTIONS
 SHEET 12 OF 42



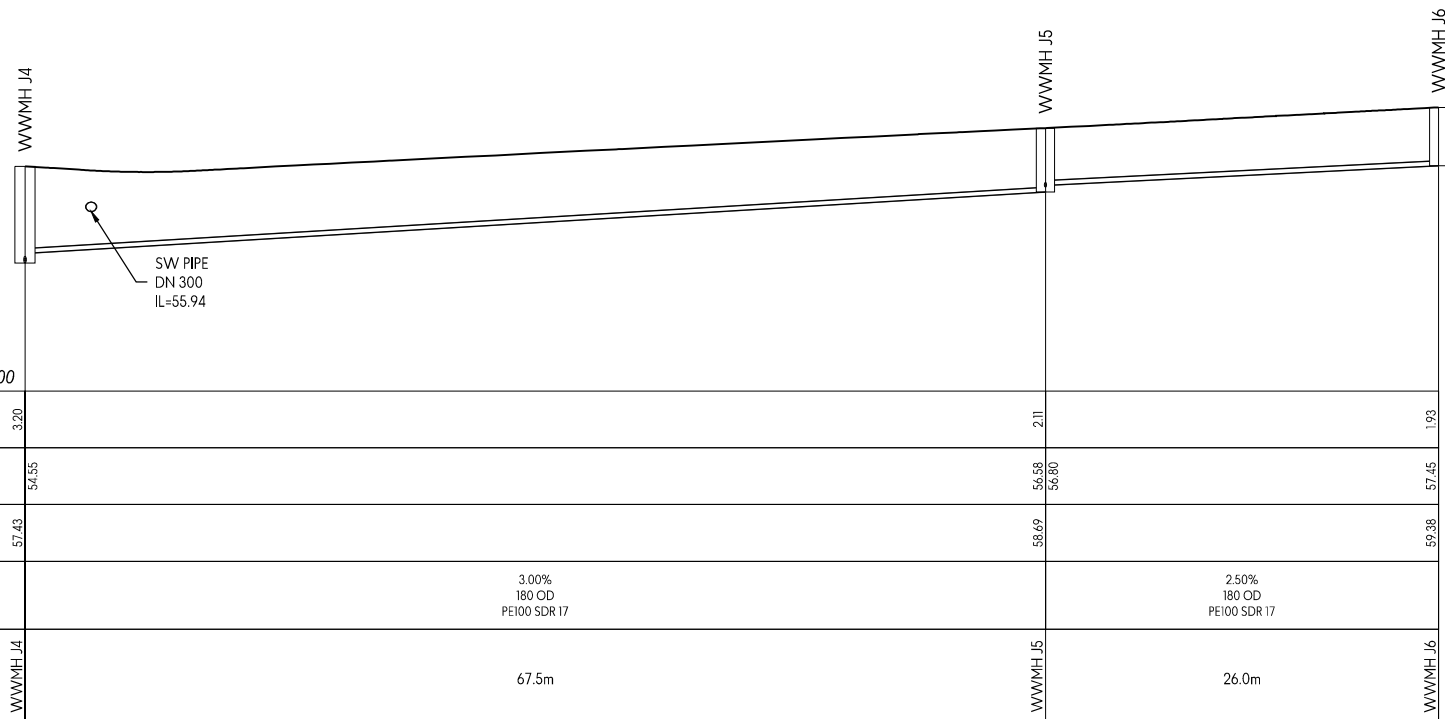
DESIGNED: PWJ DRAWN: LB
 CHECKED: KD PLOT DATE: 12-02-2026
 SCALE A1: 1:250 SCALE A3: 1:500
 STATUS: RESOURCE CONSENT
 PROJECT No: 1753-02 DRAWING No: 4411 REVISION: R2

- NOTES:
- LONG SECTIONS ARE SHOWN WITH A 2x VERTICAL EXAGGERATION.
 - INDICATES PROPOSED GROUND LEVELS.



DEPTH TO INVERT	2.27	2.33	2.94	3.64	3.20
INVERT LEVEL	50.20	53.01 53.10	53.55 53.62	53.95 54.07	54.24
LID LEVEL	52.37	55.34	56.49	57.59	57.43
GRADIENT & PIPE SIZE		7.50% 180 OD PE100 SDR 17	1.20% 180 OD PE100 SDR 17	0.70% 180 OD PE100 SDR 17	2.00% 180 OD PE100 SDR 17
PIPE LENGTH & MH No.	WWWMH J1	37.6m WWWMH J1	37.5m WWWMH J2	47.5m WWWMH J3	8.5m WWWMH J4

WW LINE J



DEPTH TO INVERT	3.20	2.11	1.93
INVERT LEVEL	54.35	56.58 56.80	57.45
LID LEVEL	57.43	59.69	59.38
GRADIENT & PIPE SIZE		3.00% 180 OD PE100 SDR 17	2.50% 180 OD PE100 SDR 17
PIPE LENGTH & MH No.	WWWMH J4	67.5m WWWMH J5	26.0m WWWMH J6

WW LINE J

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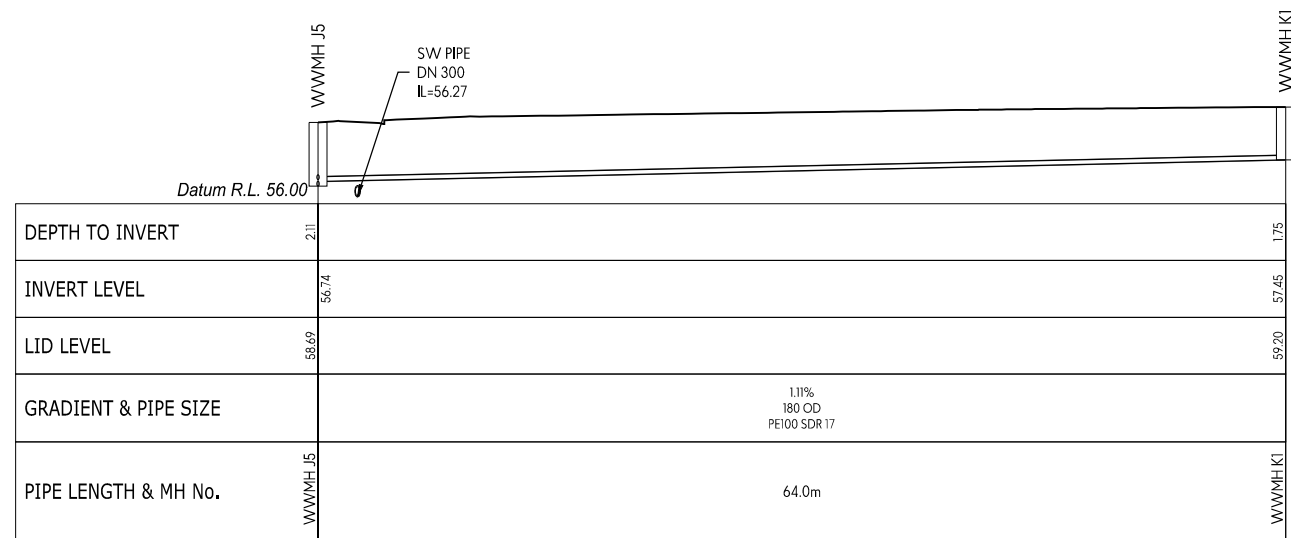
REV	NOTES	BY	DATE
R1	RESOURCE CONSENT ISSUE	PWJ	13-11-2025
R2	MINOR AMENDMENTS	PWJ	12-02-2026

PROJECT:
**PUKERUA PROPERTY GROUP LP
 MT WELCOME - PUKERUA BAY
 PORIRUA**

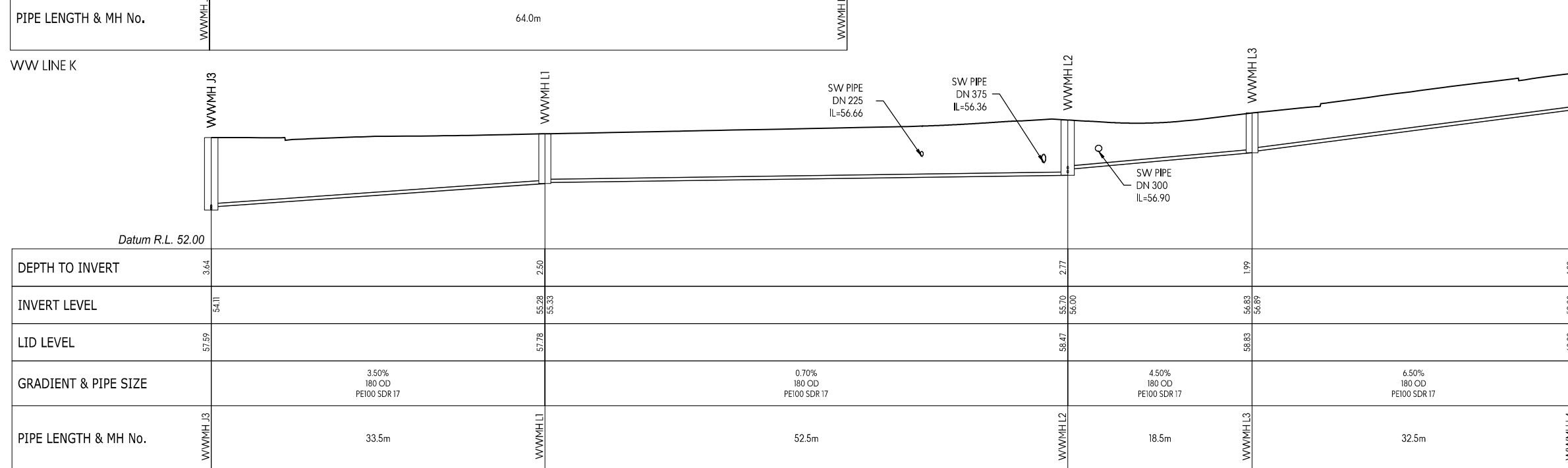
TITLE:
**PROPOSED DRAINAGE
 WASTEWATER LONG-SECTIONS
 SHEET 13 OF 42**



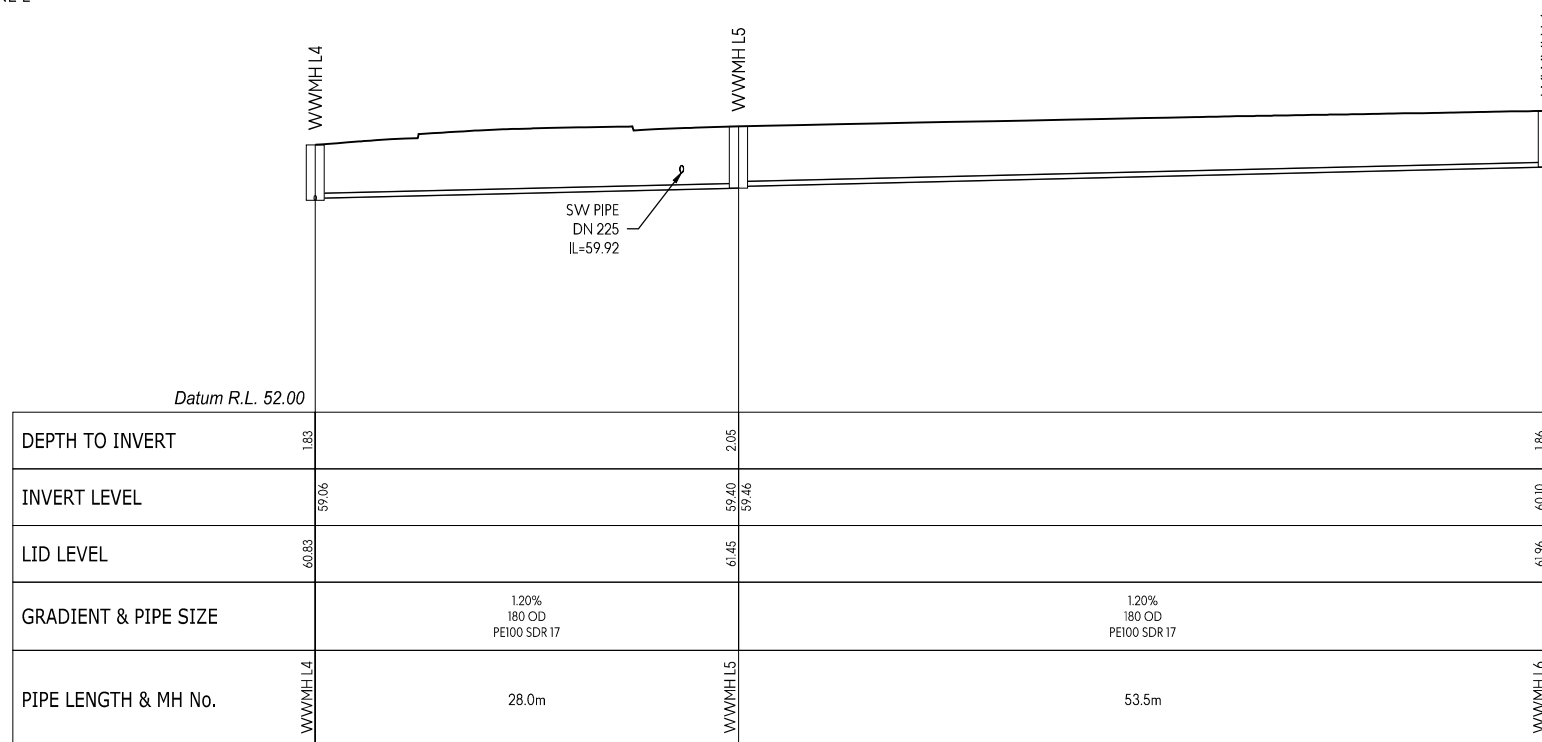
DESIGNED: PWJ DRAWN: LB
 CHECKED: KD PLOT DATE: 12-02-2026
 SCALE A1: 1:250 SCALE A3: 1:500
 STATUS: RESOURCE CONSENT
 PROJECT No: **1753-02** DRAWING No: **4412** REVISION: **R2**



WW LINE K



WW LINE L



WW LINE L

- NOTES:
- LONG SECTIONS ARE SHOWN WITH A 2x VERTICAL EXAGGERATION.
 - INDICATES PROPOSED GROUND LEVELS.

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REV	NOTES	BY	DATE
R1	RESOURCE CONSENT ISSUE	PWJ	13-11-2025
R2	MINOR AMENDMENTS	PWJ	12-02-2026

PROJECT:
 PUKERUA PROPERTY GROUP LP
 MT WELCOME - PUKERUA BAY
 PORIRUA

TITLE:
 PROPOSED DRAINAGE
 WASTEWATER LONG-SECTIONS
 SHEET 14 OF 42

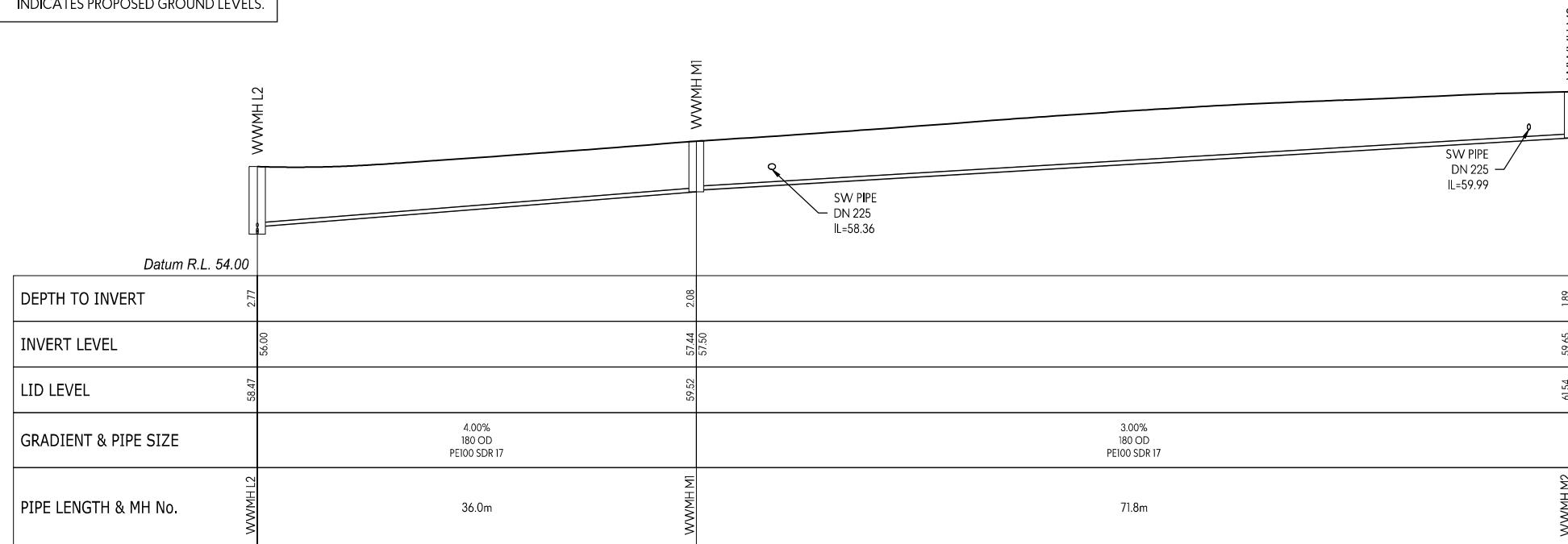


DESIGNED: PWJ
 CHECKED: KD
 SCALE A1: 1:250
 STATUS: RESOURCE CONSENT
 PROJECT No: 1753-02

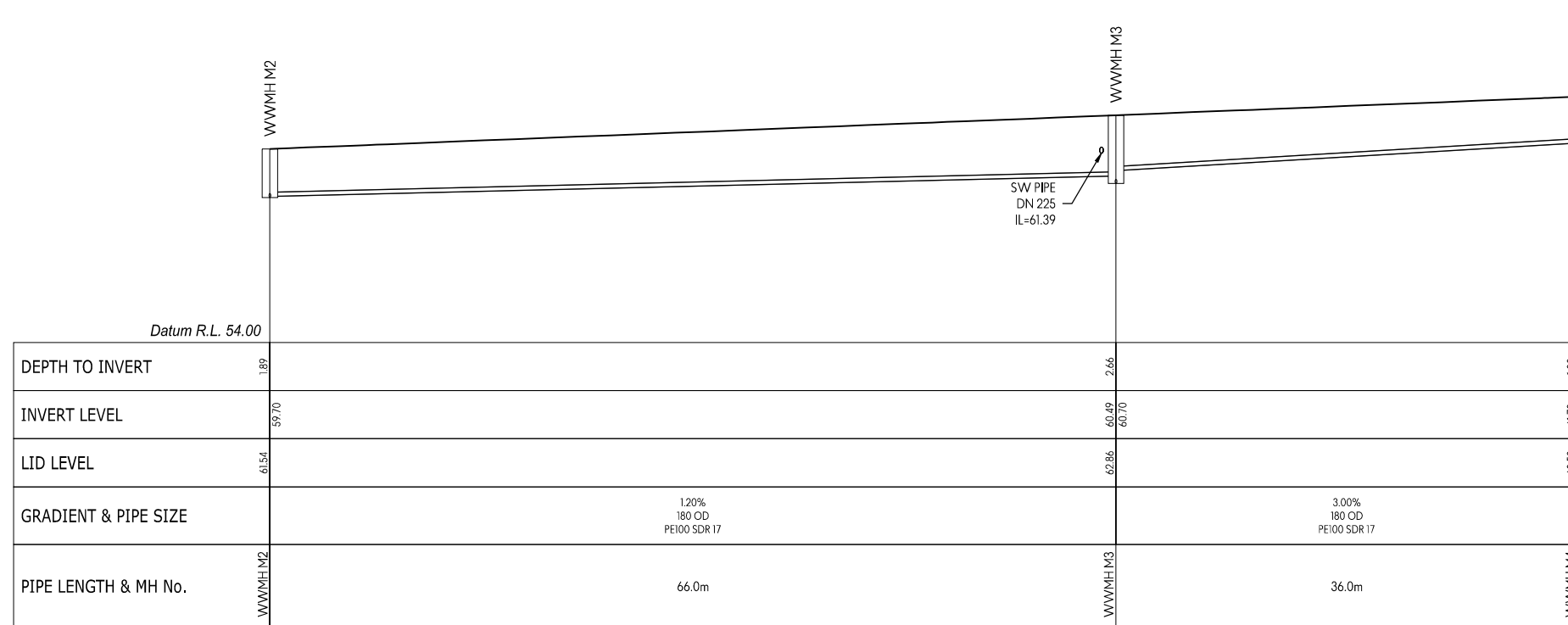
DRAWN: LB
 PLOT DATE: 12-02-2026
 SCALE A3: 1:500
 DRAWING No: 4413

REVISION: R2

- NOTES:
- LONG SECTIONS ARE SHOWN WITH A 2x VERTICAL EXAGGERATION.
 - INDICATES PROPOSED GROUND LEVELS.



WW LINE M



WW LINE M

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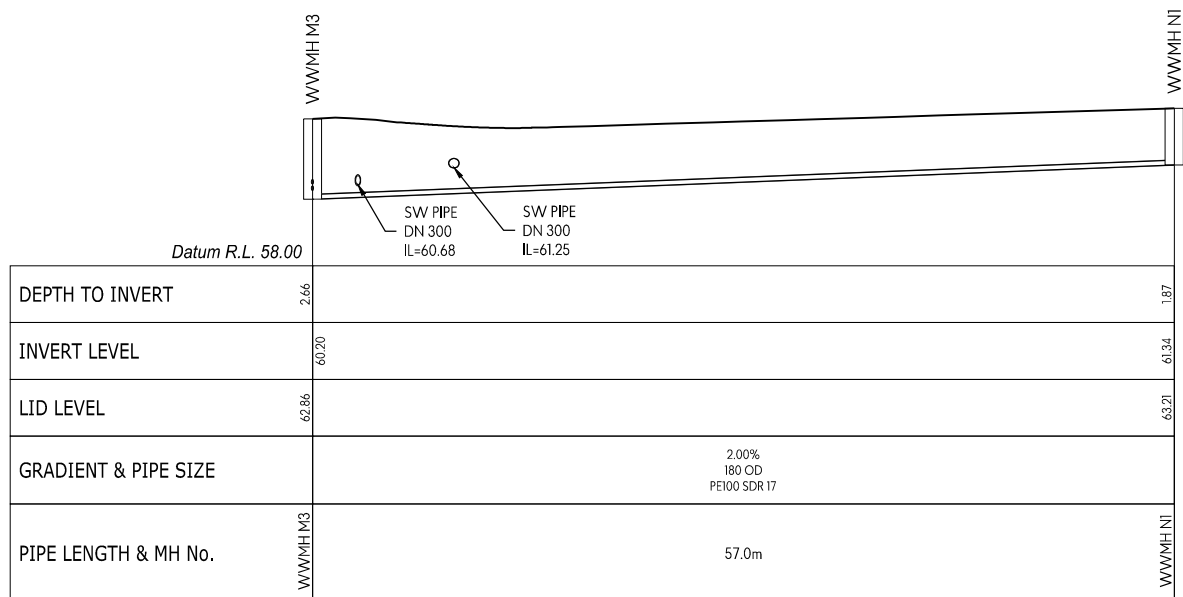
REV	NOTES	BY	DATE
R1	RESOURCE CONSENT ISSUE	PWJ	13-11-2025
R2	MINOR AMENDMENTS	PWJ	12-02-2026

PROJECT:
 PUKERUA PROPERTY GROUP LP
 MT WELCOME - PUKERUA BAY
 PORIRUA

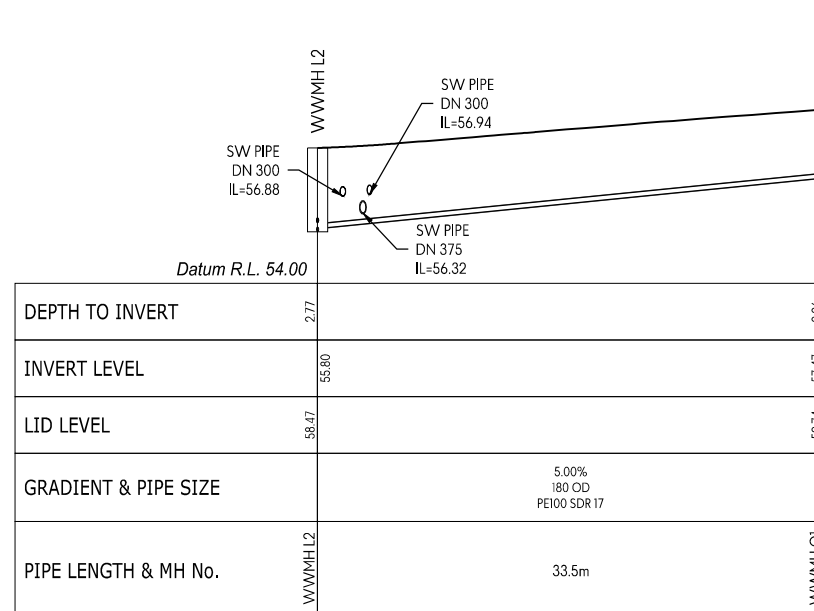
TITLE:
 PROPOSED DRAINAGE
 WASTEWATER LONG-SECTIONS
 SHEET 15 OF 42



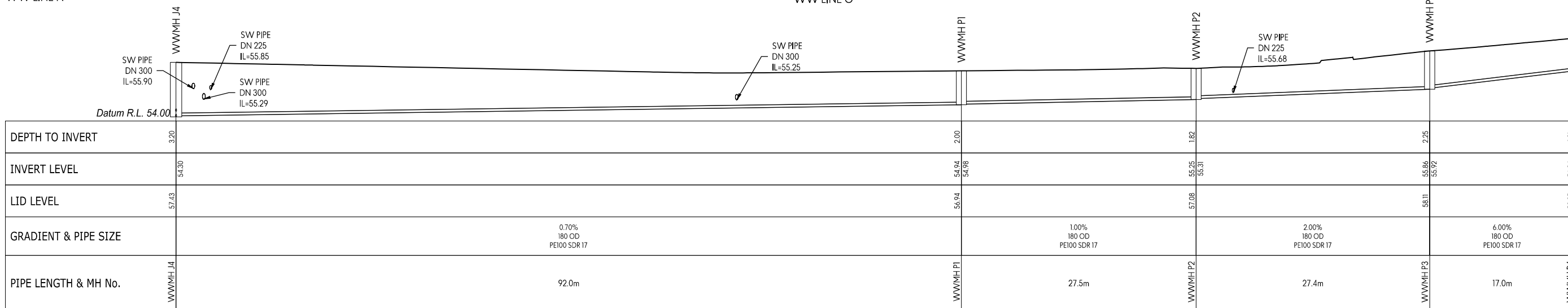
DESIGNED: PWJ DRAWN: LB
 CHECKED: KD PLOT DATE: 12-02-2026
 SCALE A1: 1:250 SCALE A3: 1:500
 STATUS: RESOURCE CONSENT
 PROJECT No: 1753-02 DRAWING No: 4414 REVISION: R2



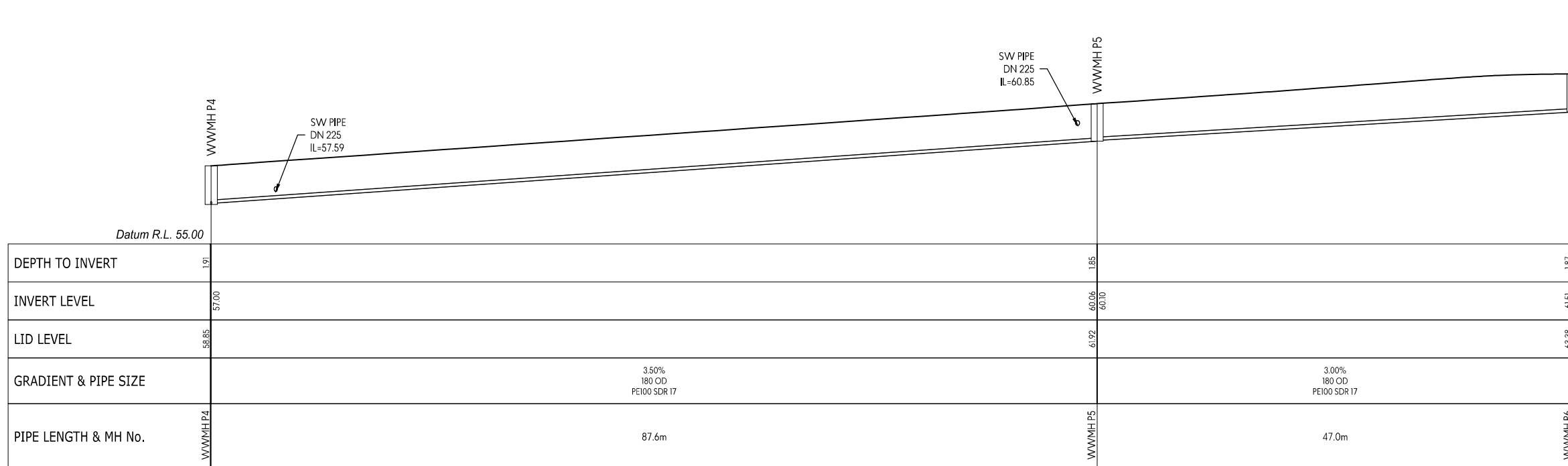
WW LINE N



WW LINE O



WW LINE P



WW LINE P

- NOTES:
- LONG SECTIONS ARE SHOWN WITH A 2x VERTICAL EXAGGERATION.
 - INDICATES PROPOSED GROUND LEVELS.

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REV	NOTES	BY	DATE
R1	RESOURCE CONSENT ISSUE	PWJ	13-11-2025
R2	MINOR AMENDMENTS	PWJ	12-02-2026

PROJECT:
**PUKERUA PROPERTY GROUP LP
 MT WELCOME - PUKERUA BAY
 PORIRUA**

TITLE:
**PROPOSED DRAINAGE
 WASTEWATER LONG-SECTIONS
 SHEET 16 OF 42**

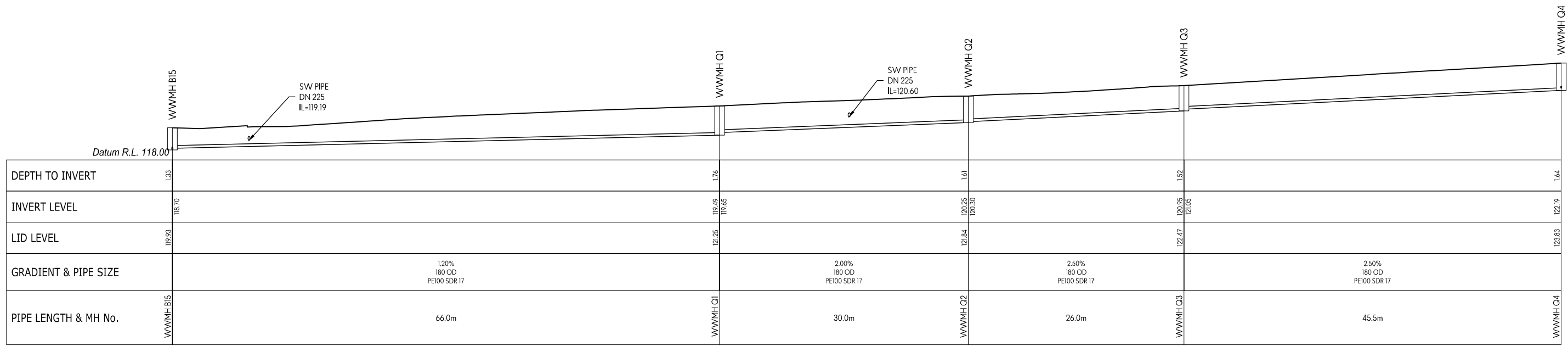


DESIGNED: PWJ
 CHECKED: KD
 SCALE A1: 1:250
 STATUS: RESOURCE CONSENT
 PROJECT No: **1753-02**

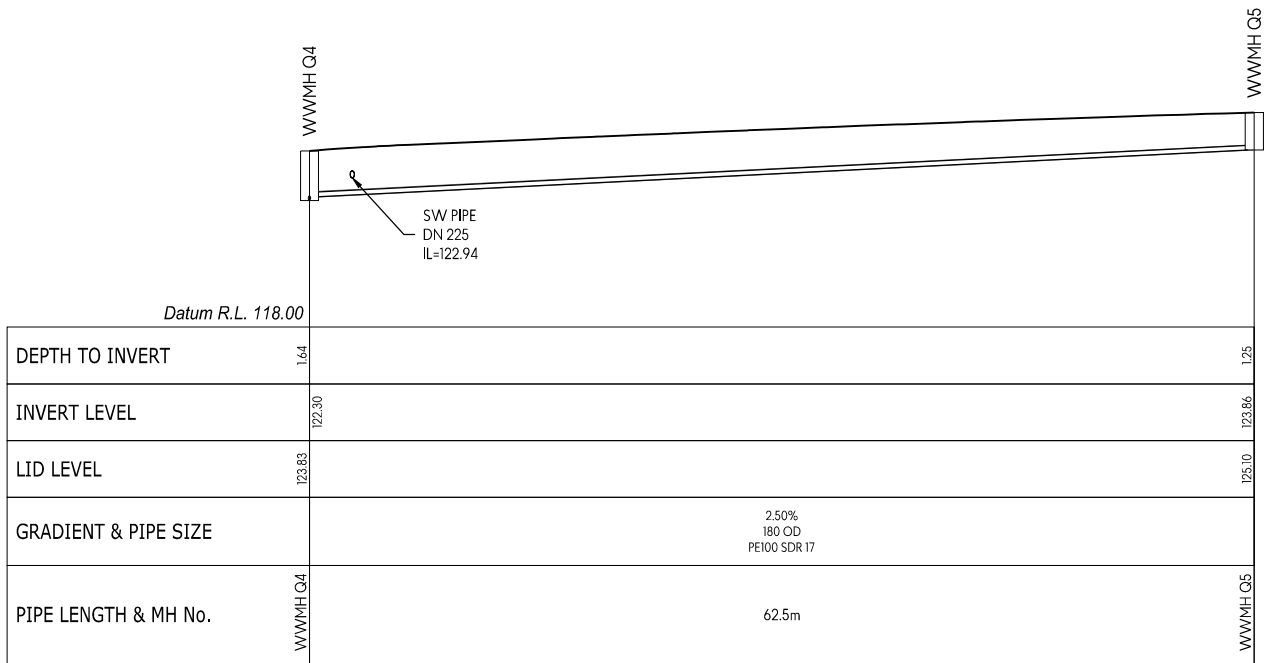
DRAWN: LB
 PLOT DATE: 12-02-2026
 SCALE A3: 1:500

REVISION: **R2**

- NOTES:
- LONG SECTIONS ARE SHOWN WITH A 2x VERTICAL EXAGGERATION.
 - INDICATES PROPOSED GROUND LEVELS.



WW LINE Q



WW LINE Q

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REV	NOTES	BY	DATE
R1	RESOURCE CONSENT ISSUE	PWJ	13-11-2025
R2	MINOR AMENDMENTS	PWJ	12-02-2026

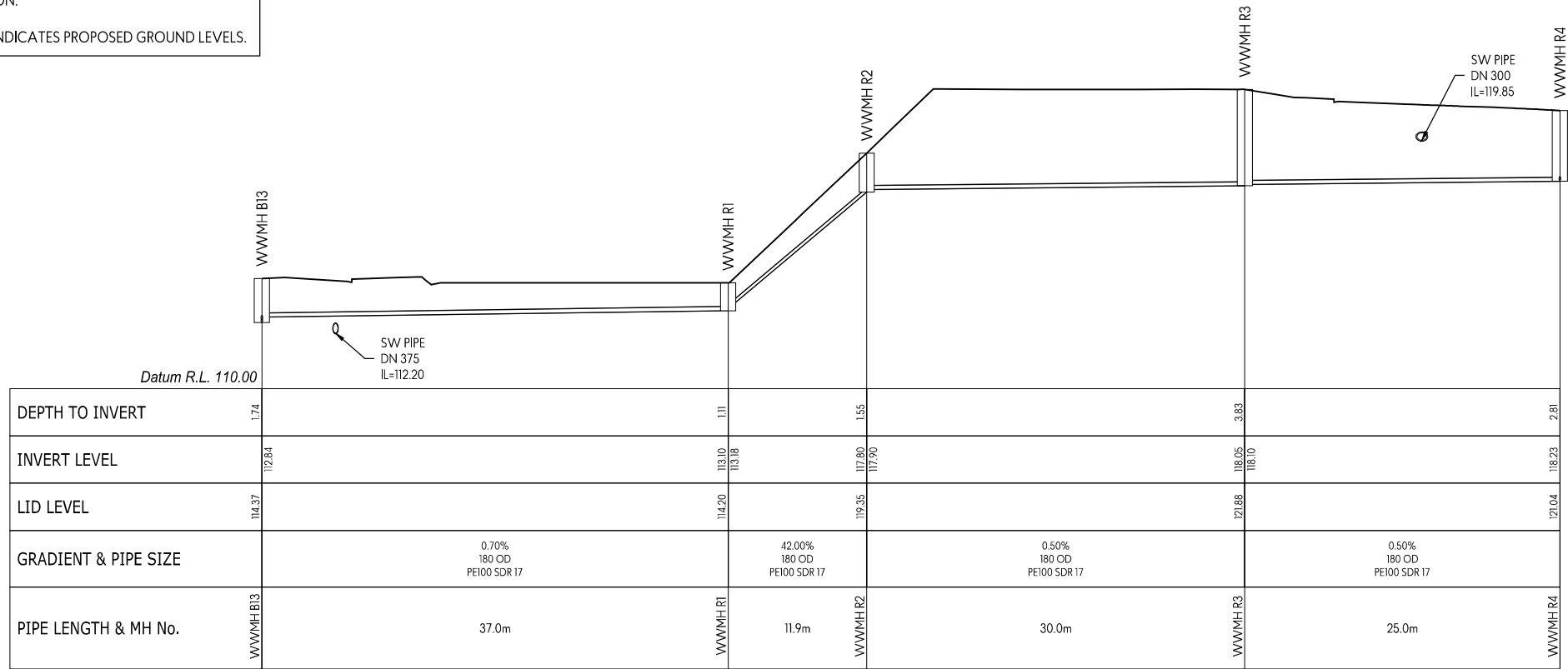
PROJECT:
**PUKERUA PROPERTY GROUP LP
 MT WELCOME - PUKERUA BAY
 PORIRUA**

TITLE:
**PROPOSED DRAINAGE
 WASTEWATER LONG-SECTIONS
 SHEET 17 OF 42**

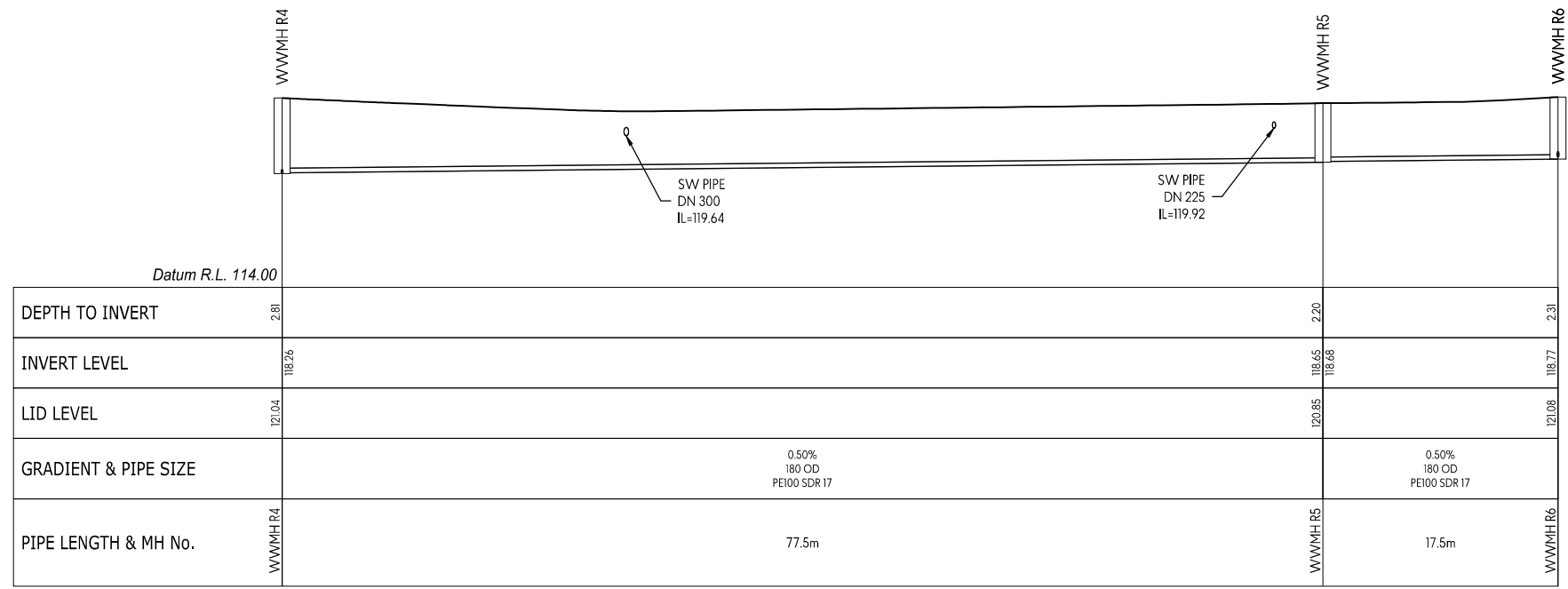


DESIGNED: PWJ DRAWN: LB
 CHECKED: KD PLOT DATE: 12-02-2026
 SCALE A1: 1:250 SCALE A3: 1:500
 STATUS: RESOURCE CONSENT
 PROJECT No: **1753-02** DRAWING No: **4416** REVISION: **R2**

- NOTES:
- LONG SECTIONS ARE SHOWN WITH A 2x VERTICAL EXAGGERATION.
 - INDICATES PROPOSED GROUND LEVELS.



WW LINE R



WW LINE R

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REV	NOTES	BY	DATE
R1	RESOURCE CONSENT ISSUE	PWJ	13-11-2025
R2	MINOR AMENDMENTS	PWJ	12-02-2026

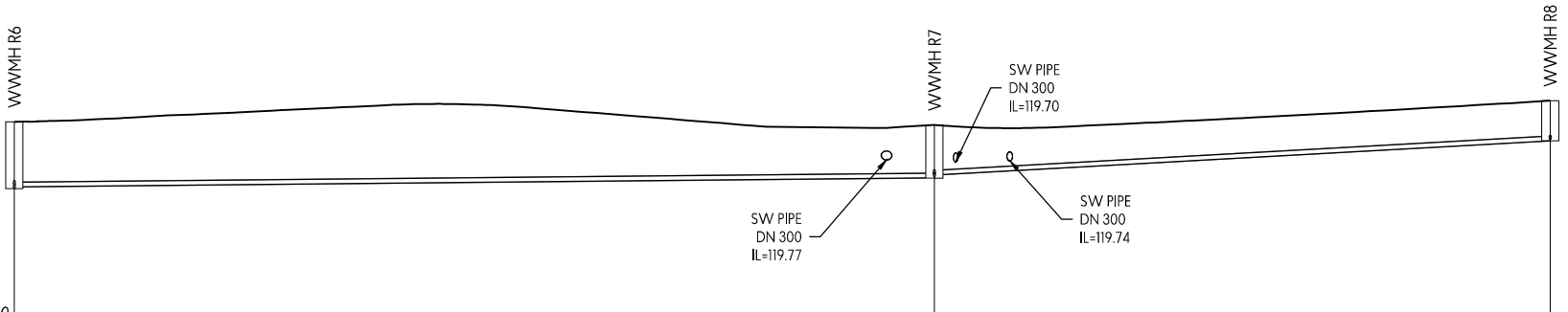
PROJECT:
PUKERUA PROPERTY GROUP LP
MT WELCOME - PUKERUA BAY
PORIRUA

TITLE:
PROPOSED DRAINAGE
WASTEWATER LONG-SECTIONS
SHEET 18 OF 42



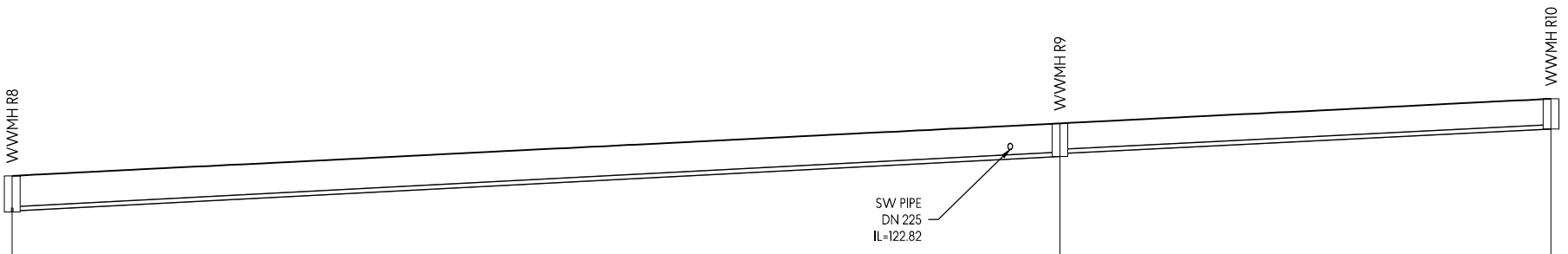
DESIGNED: PWJ DRAWN: LB
 CHECKED: KD PLOT DATE: 12-02-2026
 SCALE A1: 1:250 SCALE A3: 1:500
 STATUS: RESOURCE CONSENT
 PROJECT No: **1753-02** DRAWING No: **4417** REVISION: **R2**

- NOTES:
- LONG SECTIONS ARE SHOWN WITH A 2x VERTICAL EXAGGERATION.
 - INDICATES PROPOSED GROUND LEVELS.



Datum R.L. 114.00	
DEPTH TO INVERT	2.31
INVERT LEVEL	118.83
LID LEVEL	121.08
GRADIENT & PIPE SIZE	0.50% 180 OD PE100 SDR 17
PIPE LENGTH & MH No.	63.5m

WW LINE R



Datum R.L. 110.00	
DEPTH TO INVERT	1.38
INVERT LEVEL	120.47
LID LEVEL	121.81
GRADIENT & PIPE SIZE	2.60% 180 OD PE100 SDR 17
PIPE LENGTH & MH No.	80.0m

WW LINE R

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REVISIONS:			
REV	NOTES	BY	DATE
R1	RESOURCE CONSENT ISSUE	PWJ	13-11-2025
R2	MINOR AMENDMENTS	PWJ	12-02-2026

PROJECT:
**PUKERUA PROPERTY GROUP LP
 MT WELCOME - PUKERUA BAY
 PORIRUA**

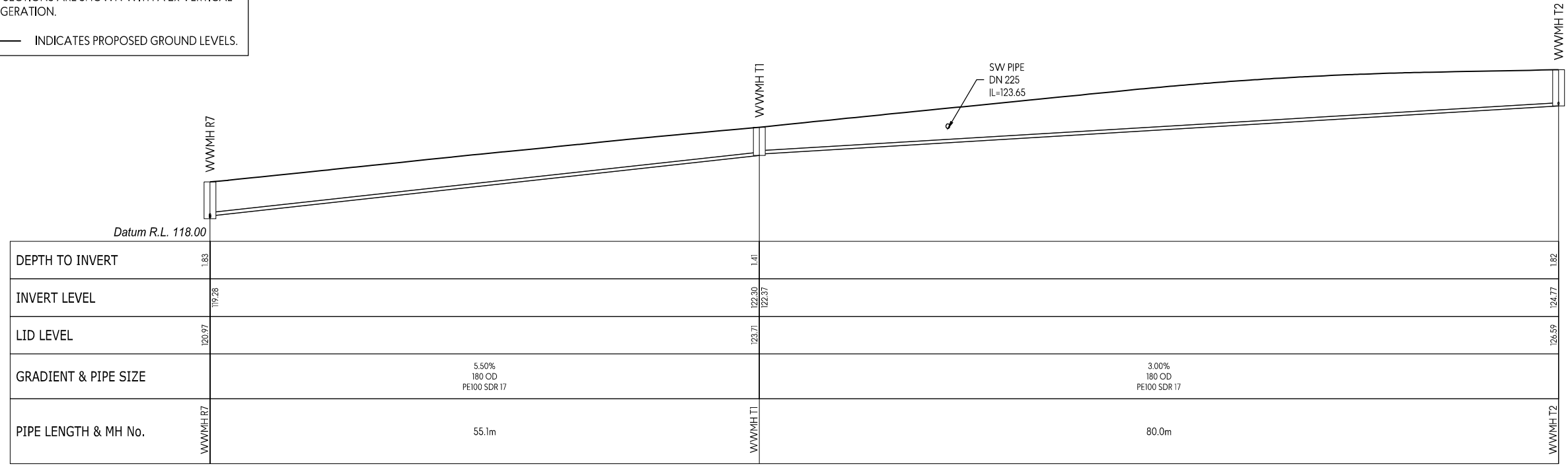
TITLE:
**PROPOSED DRAINAGE
 WASTEWATER LONG-SECTIONS
 SHEET 19 OF 42**



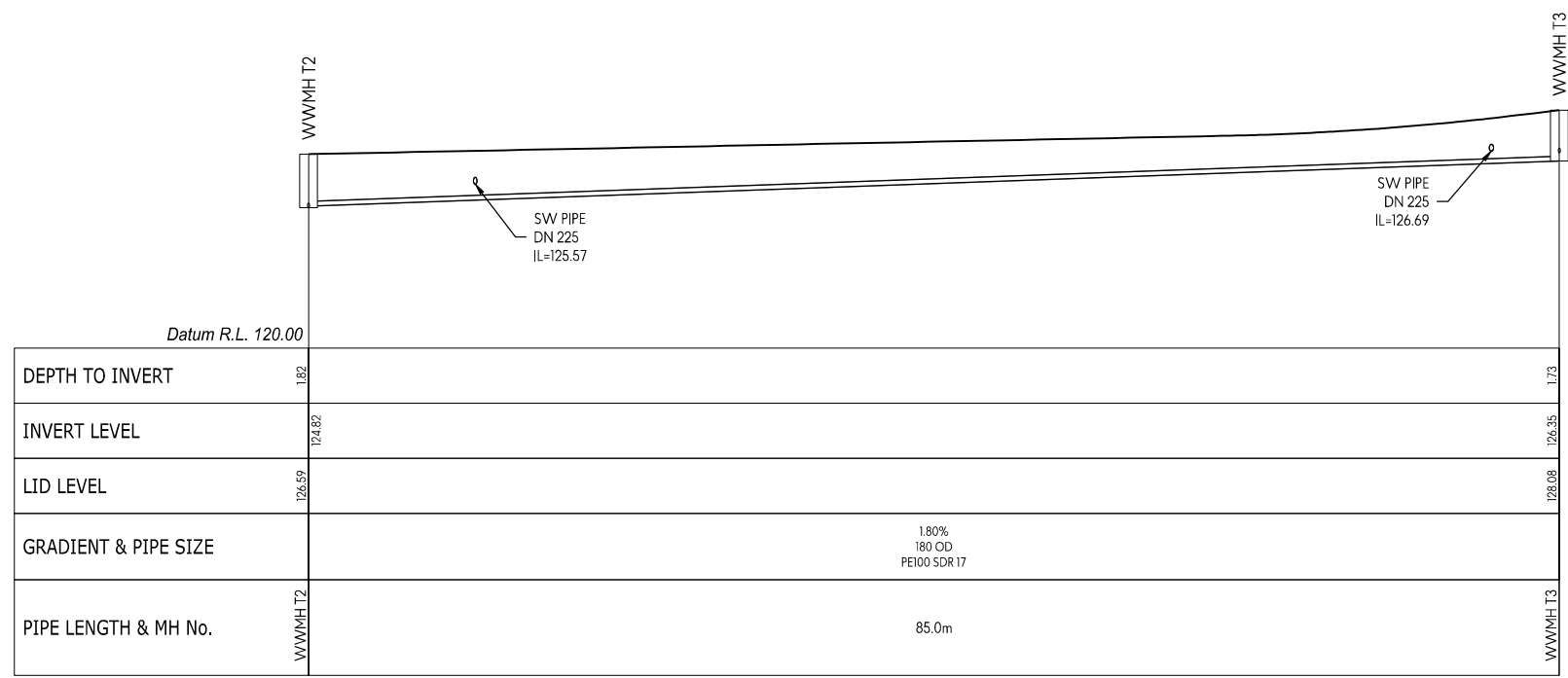
DESIGNED: PWJ DRAWN: LB
 CHECKED: KD PLOT DATE: 12-02-2026
 SCALE A1: 1:250 SCALE A3: 1:500
 STATUS: RESOURCE CONSENT
 PROJECT No: **1753-02** DRAWING No: **4418** REVISION: **R2**

NOTES:

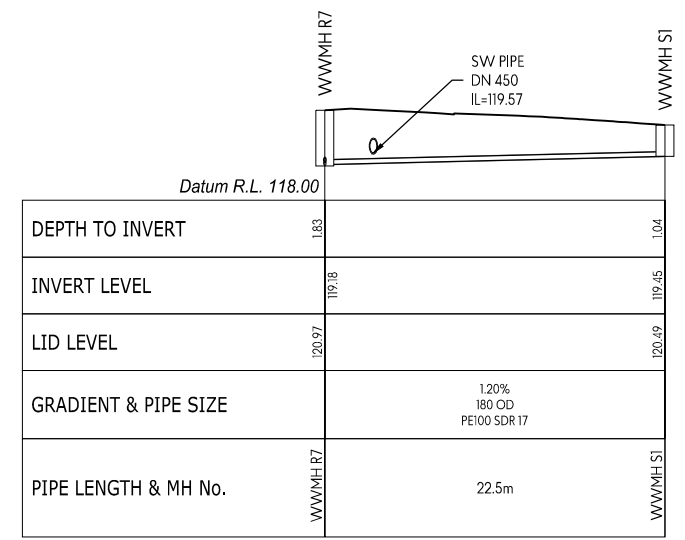
- LONG SECTIONS ARE SHOWN WITH A 2x VERTICAL EXAGGERATION.
- INDICATES PROPOSED GROUND LEVELS.



WW LINE T



WW LINE T



WW LINE S

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REVISIONS:			
REV	NOTES	BY	DATE
R1	RESOURCE CONSENT ISSUE	PWJ	13-11-2025
R2	MINOR AMENDMENTS	PWJ	12-02-2026

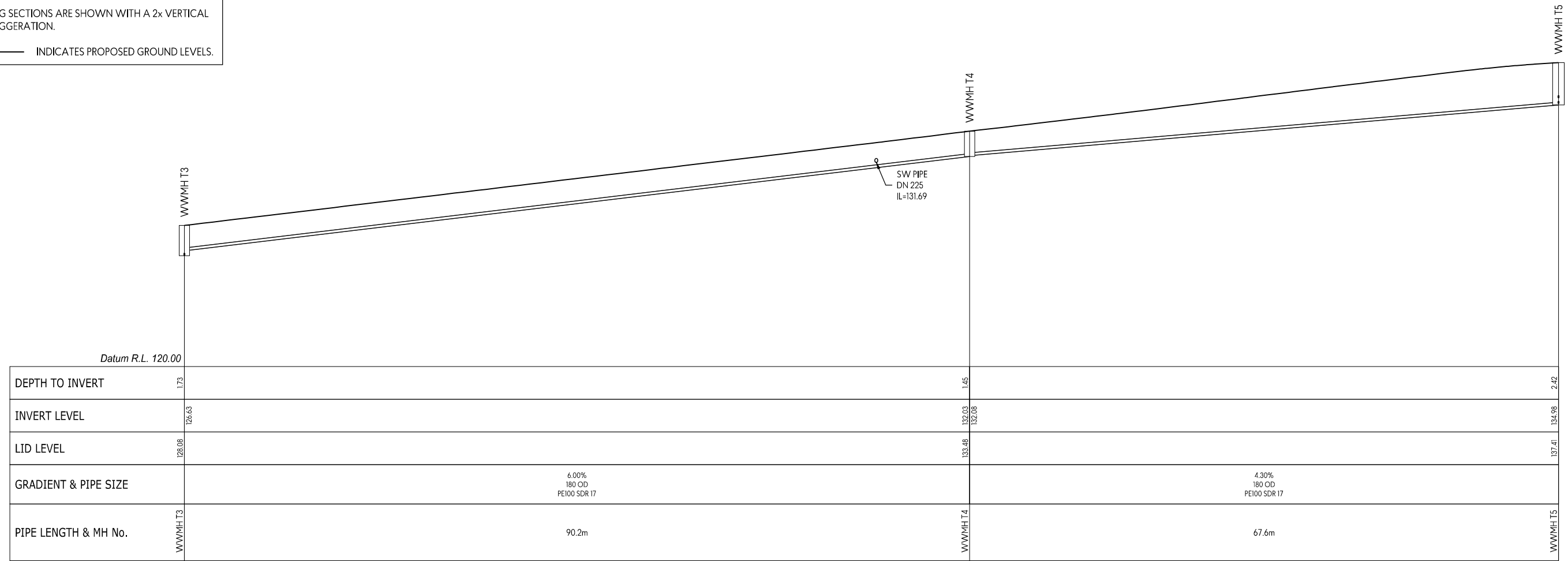
PROJECT:
**PUKERUA PROPERTY GROUP LP
 MT WELCOME - PUKERUA BAY
 PORIRUA**

TITLE:
**PROPOSED DRAINAGE
 WASTEWATER LONG-SECTIONS
 SHEET 20 OF 42**

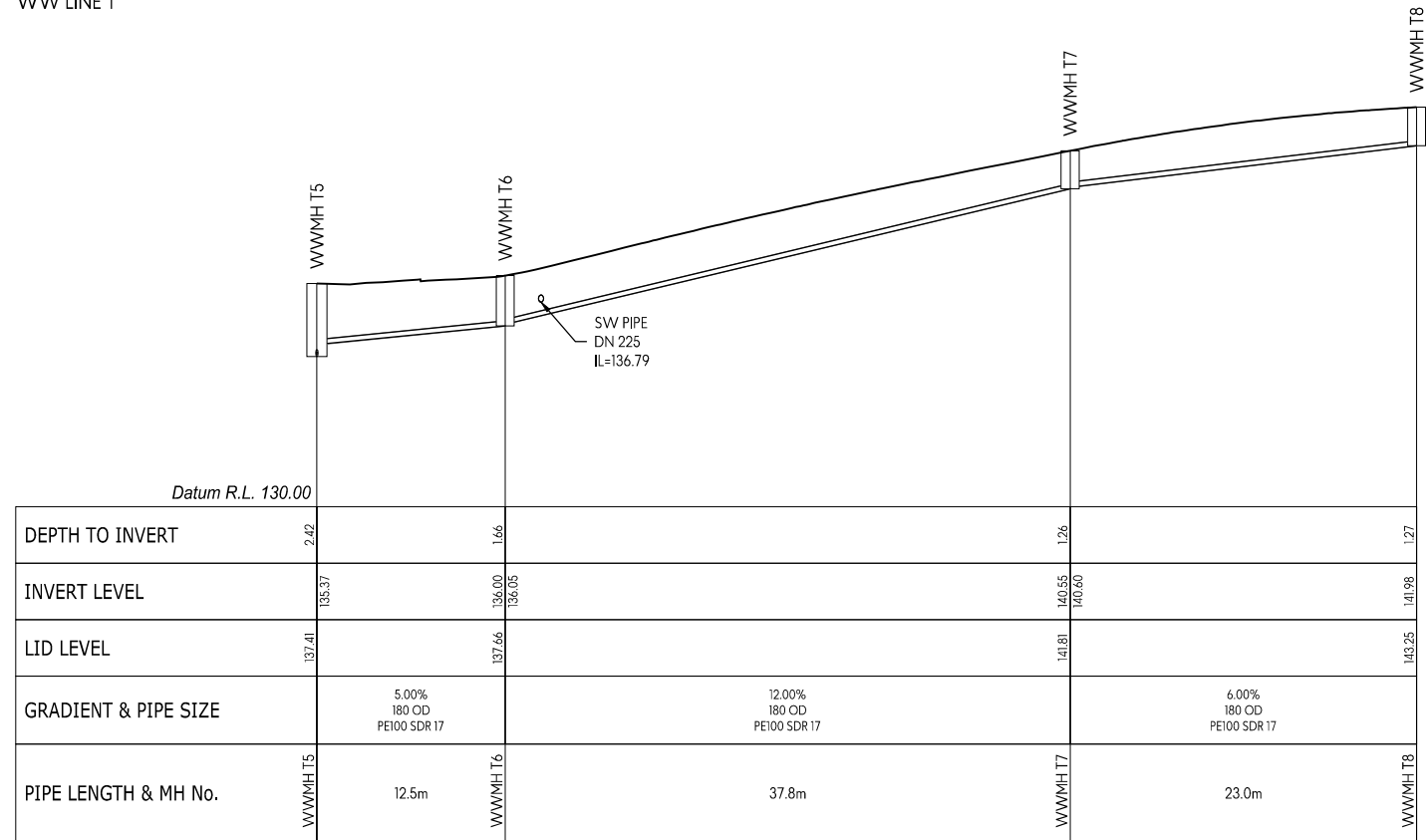


DESIGNED: PWJ DRAWN: LB
 CHECKED: KD PLOT DATE: 12-02-2026
 SCALE A1: 1:250 SCALE A3: 1:500
 STATUS: RESOURCE CONSENT
 PROJECT No: **1753-02** DRAWING No: **4419** REVISION: **R2**

- NOTES:
- LONG SECTIONS ARE SHOWN WITH A 2x VERTICAL EXAGGERATION.
 - INDICATES PROPOSED GROUND LEVELS.



WW LINE T



WW LINE T

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REV	NOTES	BY	DATE
R1	RESOURCE CONSENT ISSUE	PWJ	13-11-2025
R2	MINOR AMENDMENTS	PWJ	12-02-2026

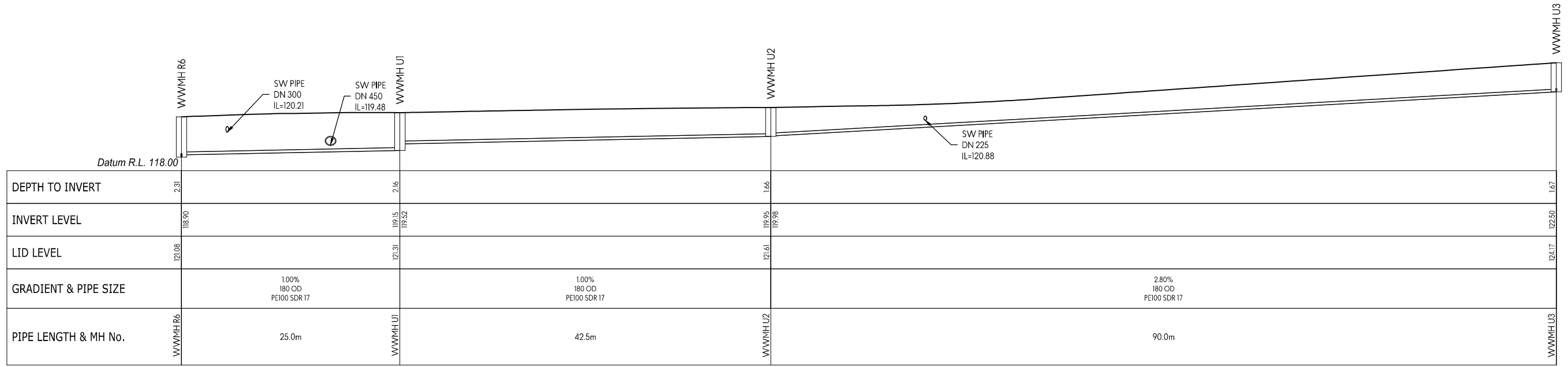
PROJECT:
PUKERUA PROPERTY GROUP LP
MT WELCOME - PUKERUA BAY
PORIRUA

TITLE:
PROPOSED DRAINAGE
WASTEWATER LONG-SECTIONS
SHEET 21 OF 42

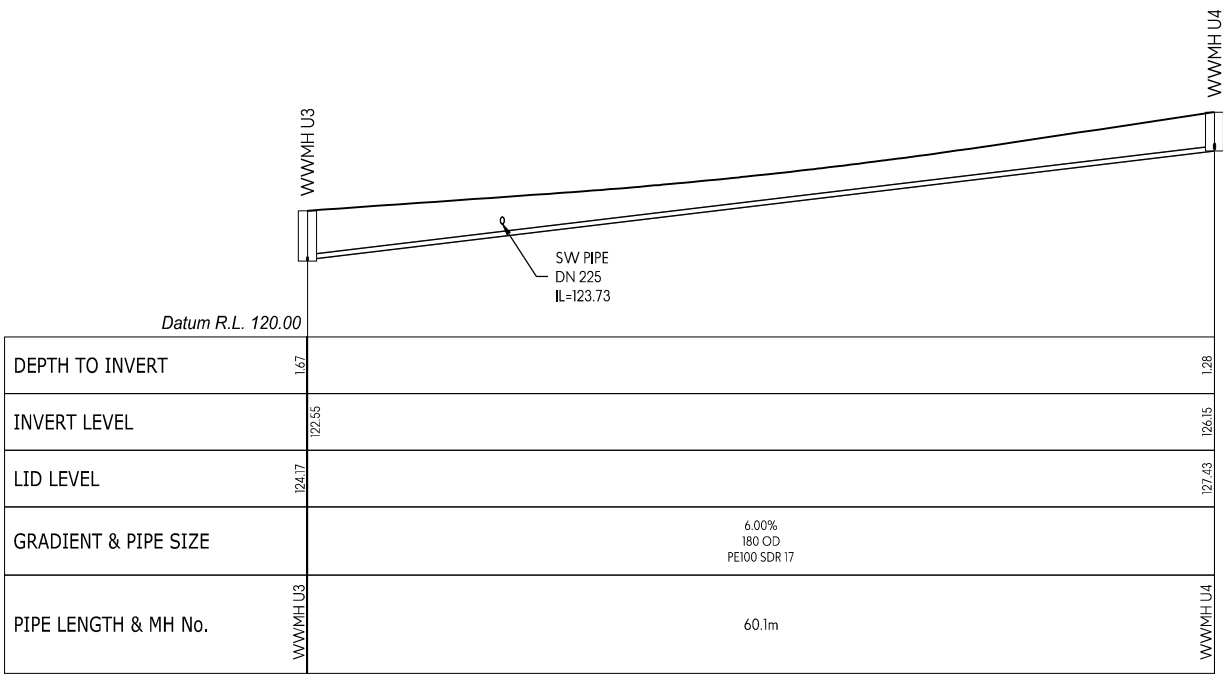


DESIGNED: PWJ DRAWN: LB
 CHECKED: KD PLOT DATE: 12-02-2026
 SCALE A1: 1:250 SCALE A3: 1:500
 STATUS: RESOURCE CONSENT
 PROJECT No: **1753-02** DRAWING No: **4420** REVISION: **R2**

- NOTES:
- LONG SECTIONS ARE SHOWN WITH A 2x VERTICAL EXAGGERATION.
 - INDICATES PROPOSED GROUND LEVELS.



WW LINE U



WW LINE U

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REV	NOTES	BY	DATE
R1	RESOURCE CONSENT ISSUE	PWJ	13-11-2025
R2	MINOR AMENDMENTS	PWJ	12-02-2026

PROJECT:
 PUKERUA PROPERTY GROUP LP
 MT WELCOME - PUKERUA BAY
 PORIRUA

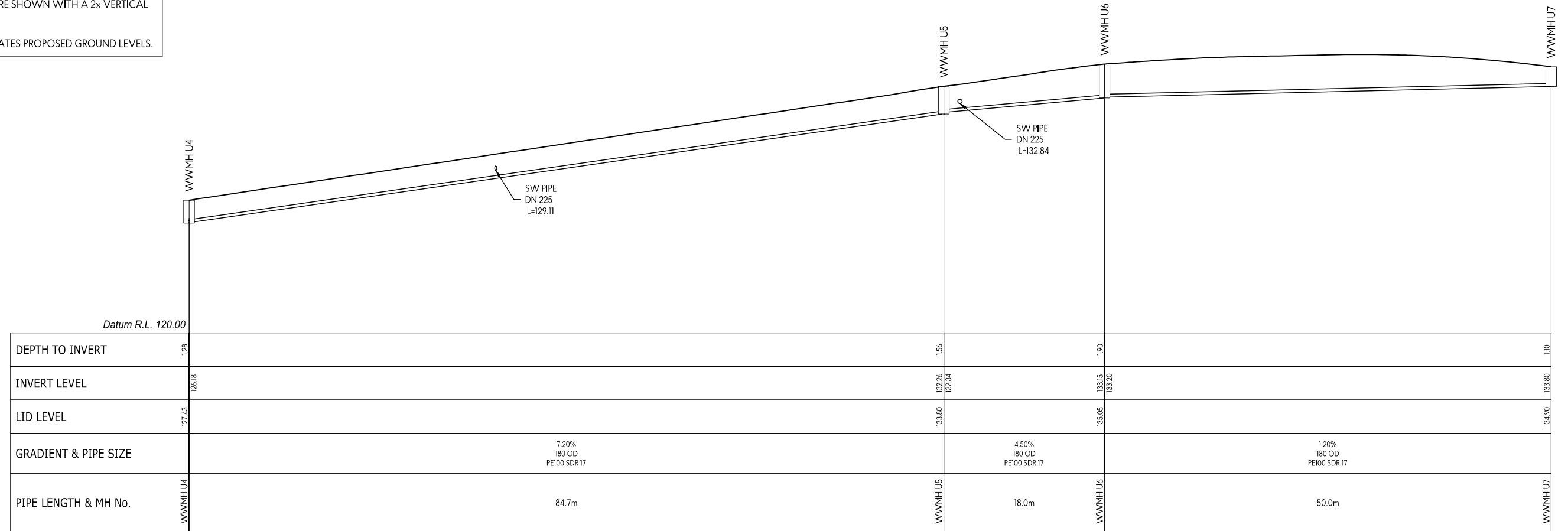
TITLE:
 PROPOSED DRAINAGE
 WASTEWATER LONG-SECTIONS
 SHEET 22 OF 42



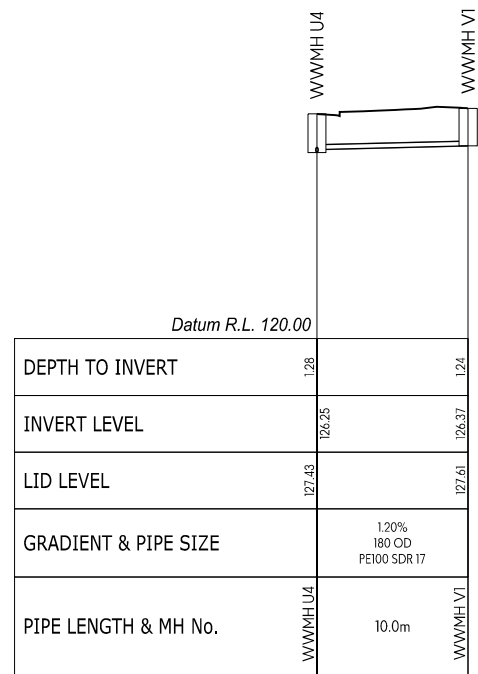
DESIGNED: PWJ DRAWN: LB
 CHECKED: KD PLOT DATE: 12-02-2026
 SCALE A1: 1:250 SCALE A3: 1:500
 STATUS: RESOURCE CONSENT

PROJECT No: 1753-02 DRAWING No: 4421 REVISION: R2

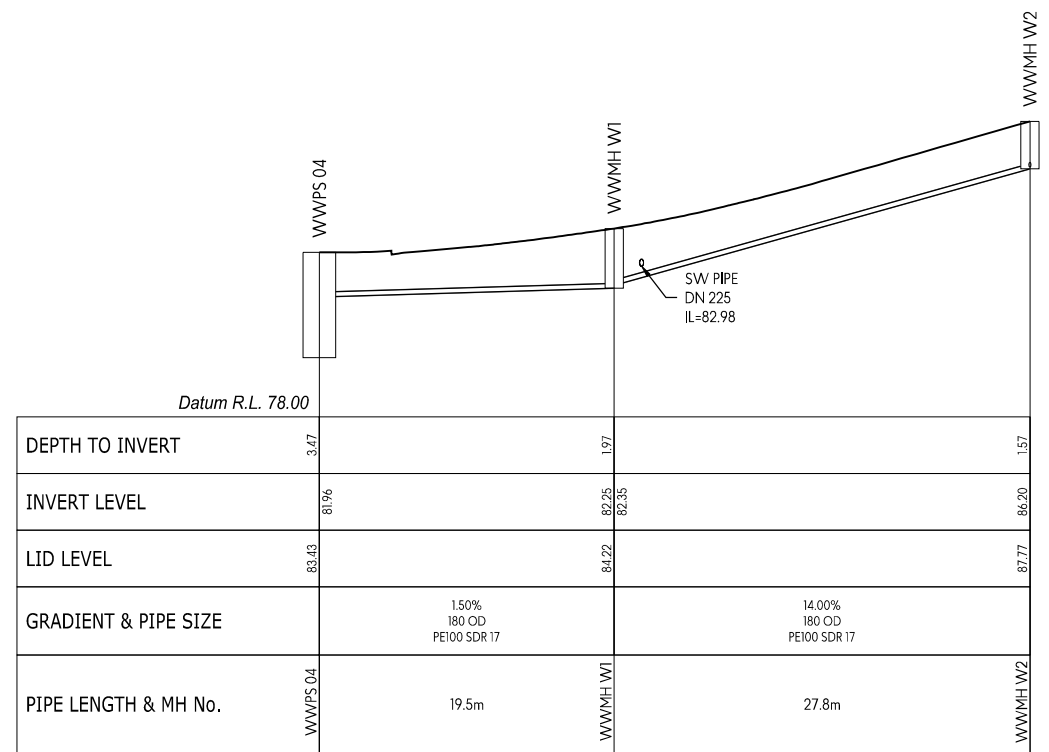
- NOTES:
- LONG SECTIONS ARE SHOWN WITH A 2x VERTICAL EXAGGERATION.
 - INDICATES PROPOSED GROUND LEVELS.



WW LINE U



WW LINE V



WW LINE W

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REV	NOTES	BY	DATE
R1	RESOURCE CONSENT ISSUE	PWJ	13-11-2025
R2	MINOR AMENDMENTS	PWJ	12-02-2026

PROJECT:
**PUKERUA PROPERTY GROUP LP
 MT WELCOME - PUKERUA BAY
 PORIRUA**

TITLE:
**PROPOSED DRAINAGE
 WASTEWATER LONG-SECTIONS
 SHEET 23 OF 42**

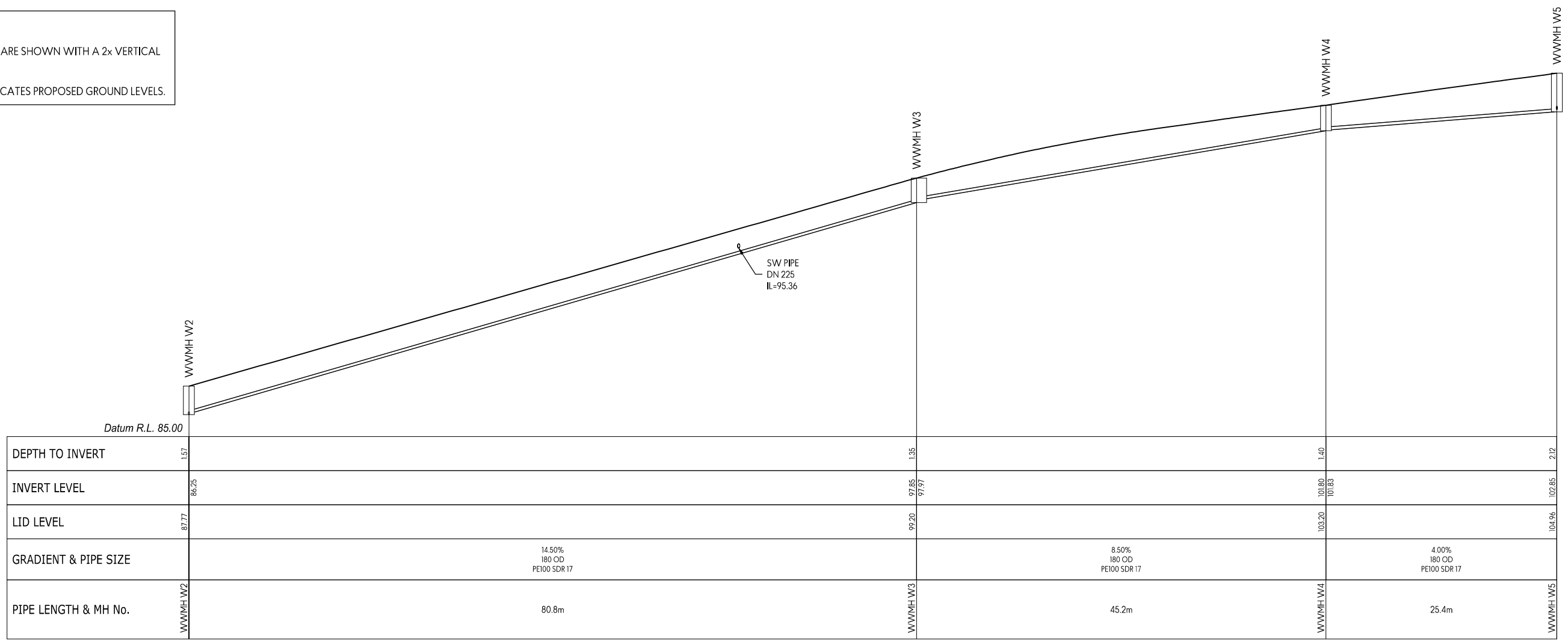


DESIGNED: PWJ
 CHECKED: KD
 SCALE A1: 1:250
 STATUS: RESOURCE CONSENT
 PROJECT No: **1753-02**

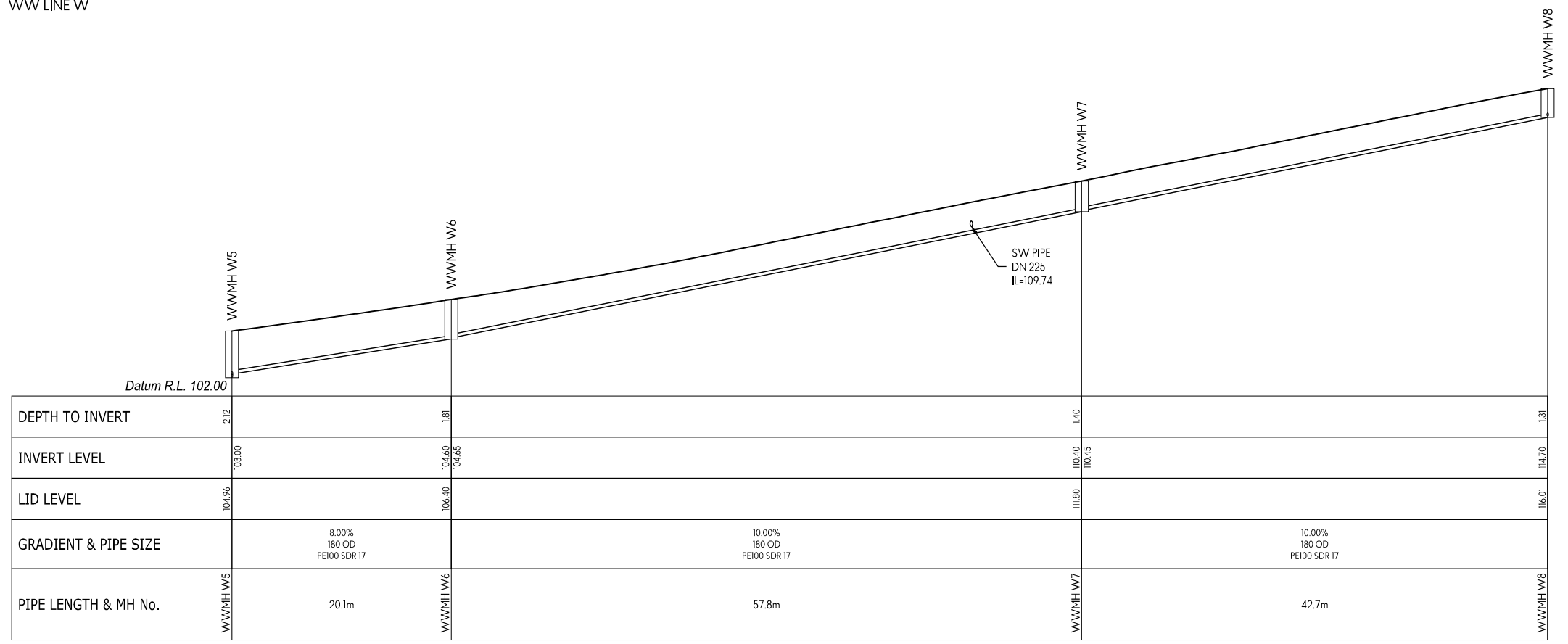
DRAWN: LB
 PLOT DATE: 12-02-2026
 SCALE A3: 1:500
 DRAWING No: **4422**

REVISION: **R2**

- NOTES:
- LONG SECTIONS ARE SHOWN WITH A 2x VERTICAL EXAGGERATION.
 - INDICATES PROPOSED GROUND LEVELS.



WW LINE W



WW LINE W

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REV	NOTES	BY	DATE
R1	RESOURCE CONSENT ISSUE	PWJ	13-11-2025
R2	MINOR AMENDMENTS	PWJ	12-02-2026

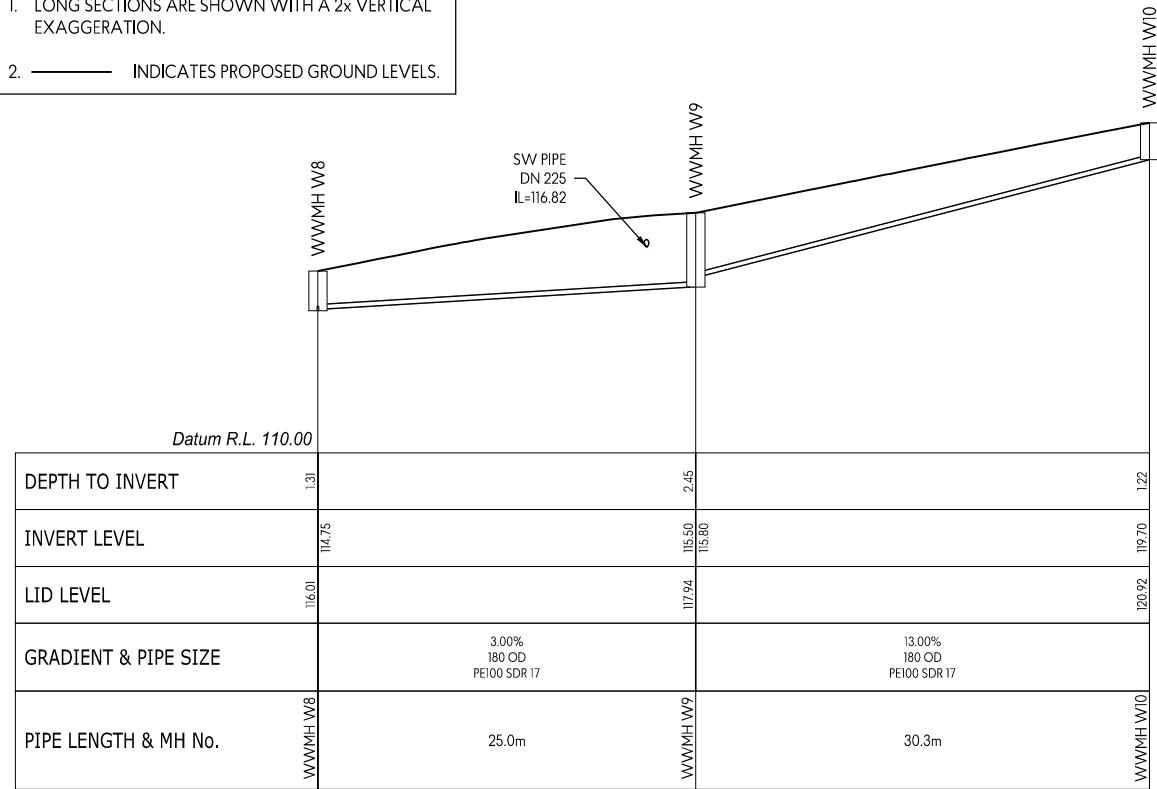
PROJECT:
**PUKERUA PROPERTY GROUP LP
 MT WELCOME - PUKERUA BAY
 PORIRUA**

TITLE:
**PROPOSED DRAINAGE
 WASTEWATER LONG-SECTIONS
 SHEET 24 OF 42**

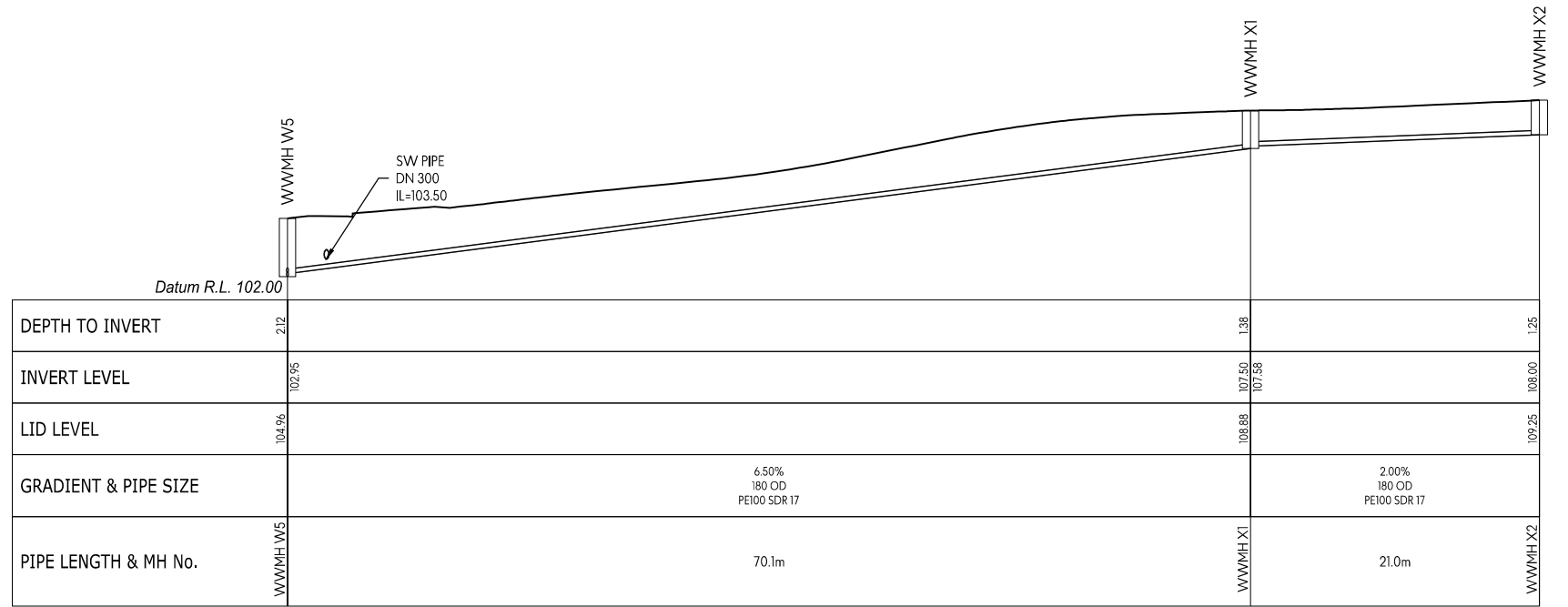


DESIGNED: PWJ DRAWN: LB
 CHECKED: KD PLOT DATE: 12-02-2026
 SCALE A1: 1:250 SCALE A3: 1:500
 STATUS: RESOURCE CONSENT
 PROJECT No: **1753-02** DRAWING No: **4423** REVISION: **R2**

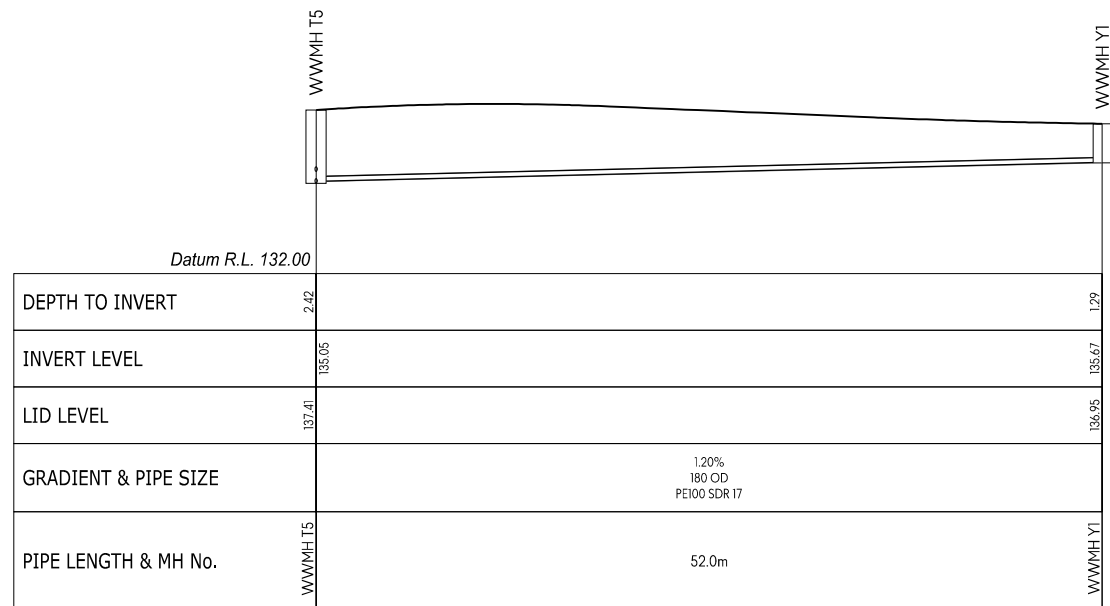
- NOTES:
- LONG SECTIONS ARE SHOWN WITH A 2x VERTICAL EXAGGERATION.
 - INDICATES PROPOSED GROUND LEVELS.



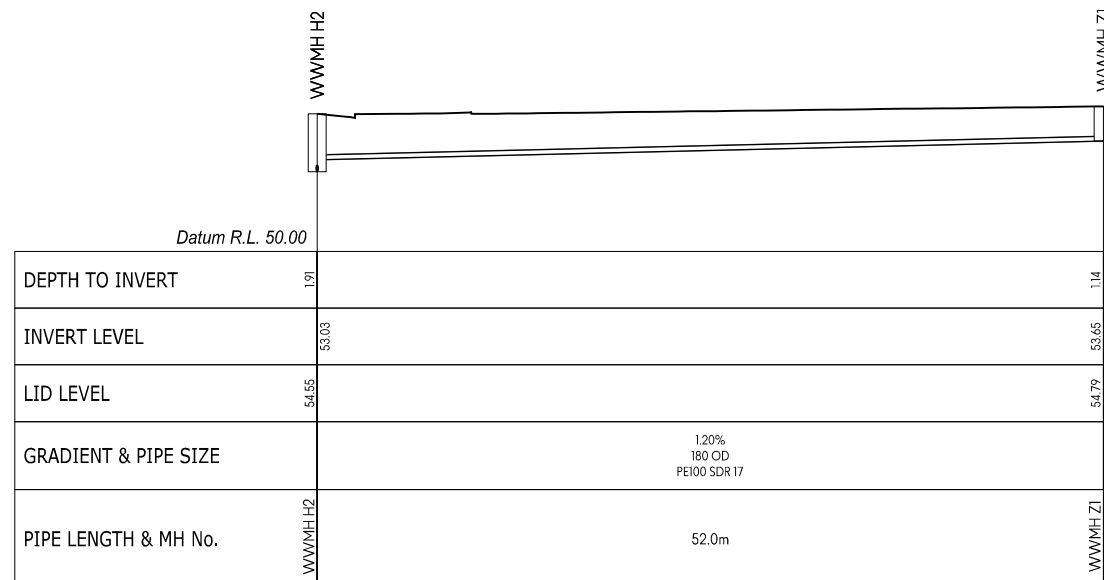
WW LINE W



WW LINE X



WW LINE Y



WW LINE Z

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REVISIONS:			
REV	NOTES	BY	DATE
R1	RESOURCE CONSENT ISSUE	PWJ	13-11-2025
R2	MINOR AMENDMENTS	PWJ	12-02-2026

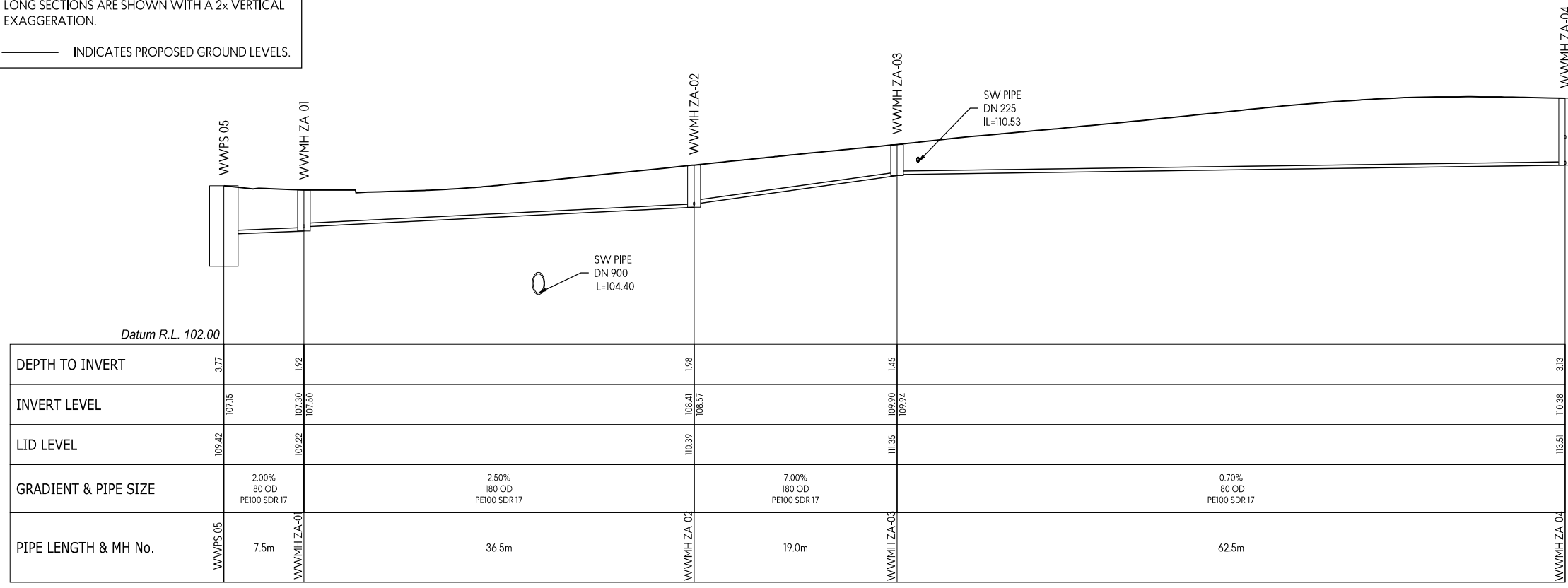
PROJECT:
 PUKERUA PROPERTY GROUP LP
 MT WELCOME - PUKERUA BAY
 PORIRUA

TITLE:
 PROPOSED DRAINAGE
 WASTEWATER LONG-SECTIONS
 SHEET 25 OF 42

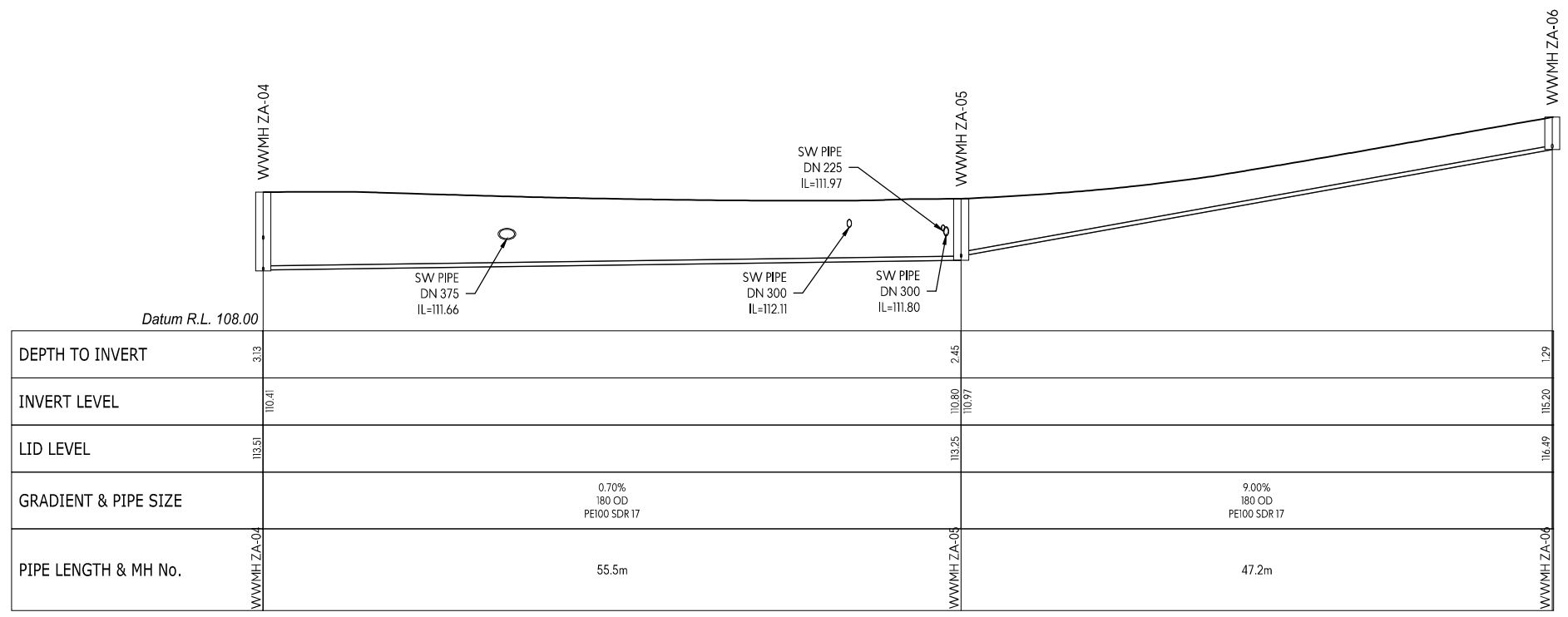
ENVELOPE
 W W . E N V E L O P E . E N G . C O . N Z

DESIGNED: PWJ DRAWN: LB
 CHECKED: KD PLOT DATE: 12-02-2026
 SCALE A1: 1:250 SCALE A3: 1:500
 STATUS: RESOURCE CONSENT
 PROJECT No: 1753-02 DRAWING No: 4424 REVISION: R2

- NOTES:
- LONG SECTIONS ARE SHOWN WITH A 2x VERTICAL EXAGGERATION.
 - INDICATES PROPOSED GROUND LEVELS.



WW LINE ZA



WW LINE ZA

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REV	NOTES	BY	DATE
R1	RESOURCE CONSENT ISSUE	PWJ	13-11-2025
R2	MINOR AMENDMENTS	PWJ	12-02-2026

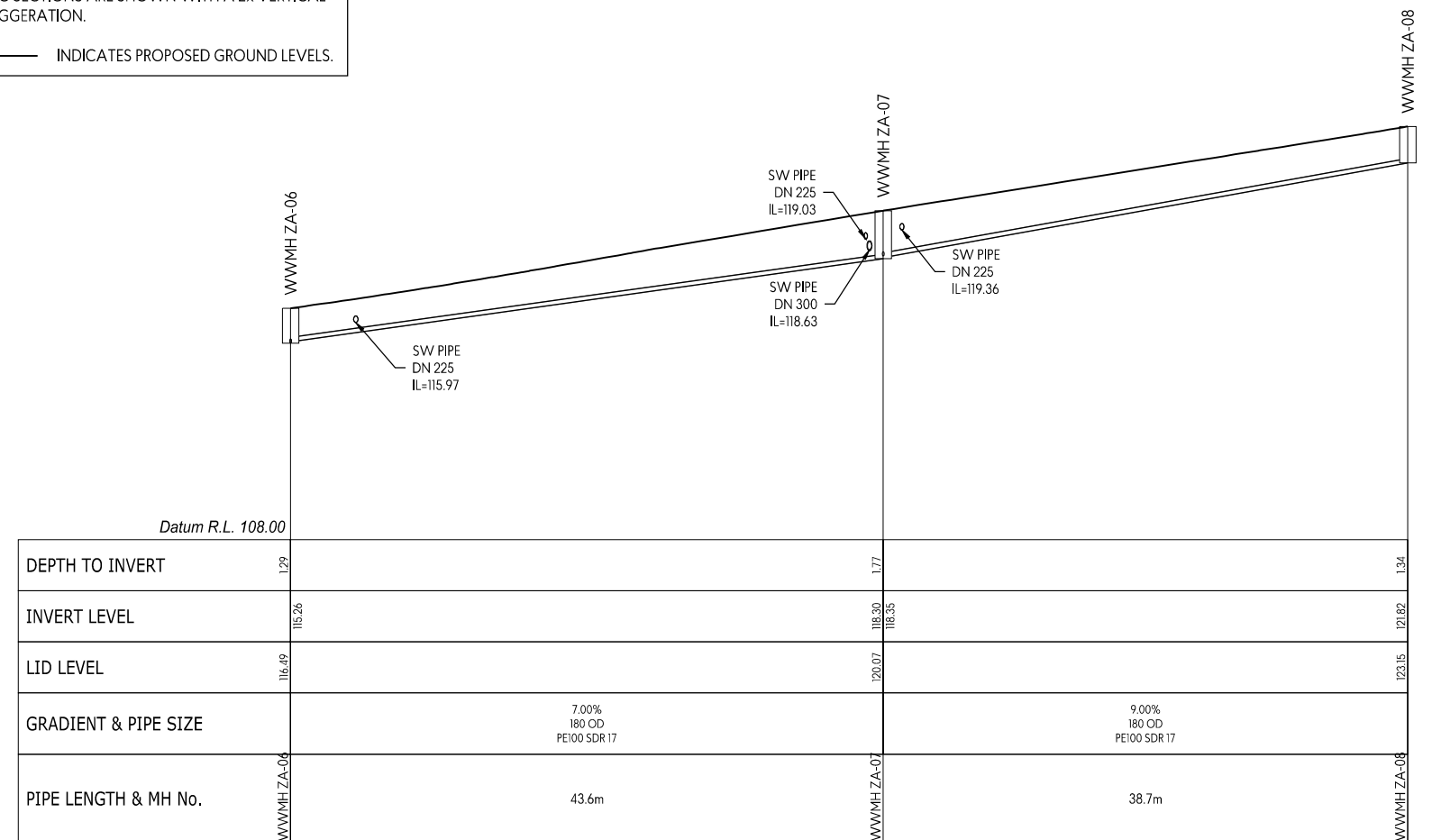
PROJECT:
**PUKERUA PROPERTY GROUP LP
 MT WELCOME - PUKERUA BAY
 PORIRUA**

TITLE:
**PROPOSED DRAINAGE
 WASTEWATER LONG-SECTIONS
 SHEET 26 OF 42**

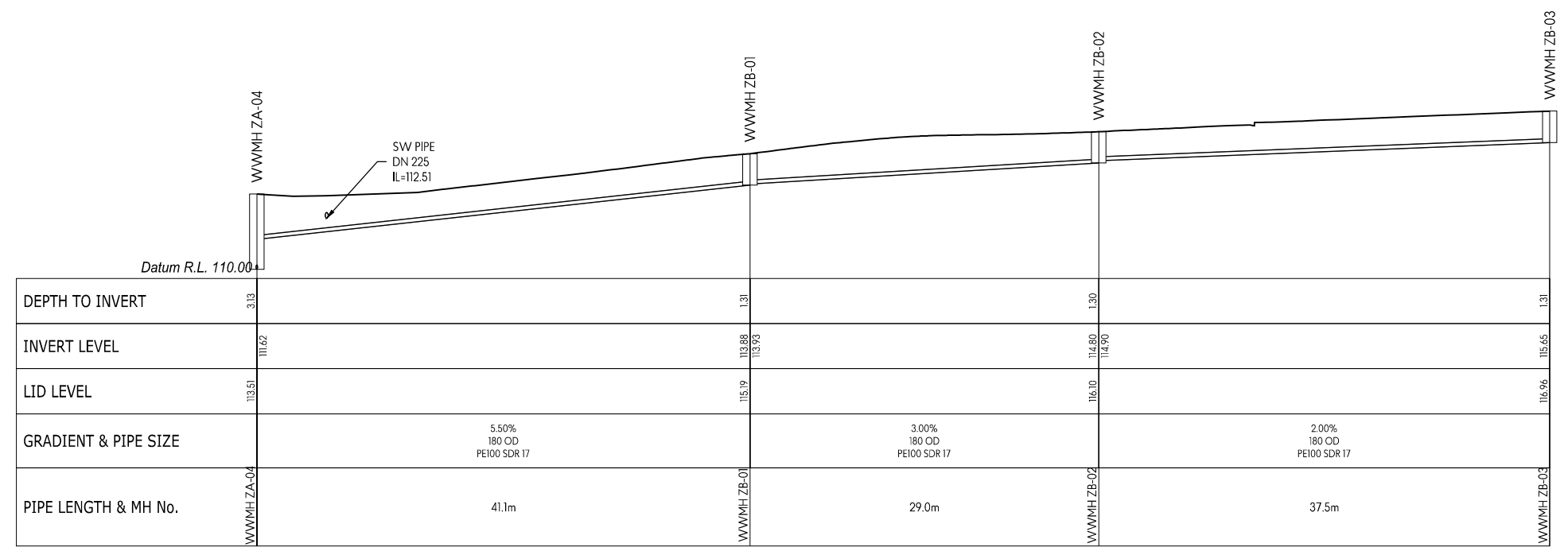


DESIGNED: PWJ DRAWN: LB
 CHECKED: KD PLOT DATE: 12-02-2026
 SCALE A1: 1:250 SCALE A3: 1:500
 STATUS: RESOURCE CONSENT
 PROJECT No: **1753-02** DRAWING No: **4425** REVISION: **R2**

- NOTES:
- LONG SECTIONS ARE SHOWN WITH A 2x VERTICAL EXAGGERATION.
 - INDICATES PROPOSED GROUND LEVELS.



WW LINE ZA



WW LINE ZB

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REVISIONS:

REV	NOTES	BY	DATE
R1	RESOURCE CONSENT ISSUE	PWJ	13-11-2025
R2	MINOR AMENDMENTS	PWJ	12-02-2026

PROJECT:
 PUKERUA PROPERTY GROUP LP
 MT WELCOME - PUKERUA BAY
 PORIRUA

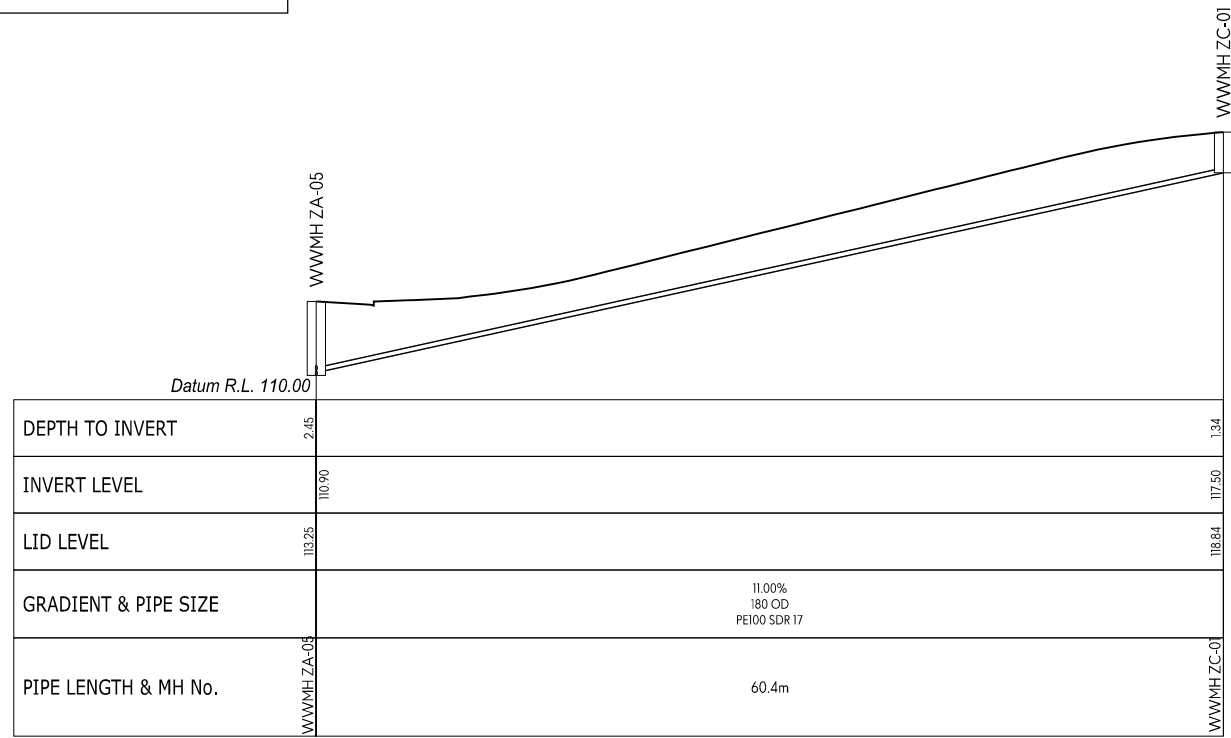
TITLE:
 PROPOSED DRAINAGE
 WASTEWATER LONG-SECTIONS
 SHEET 27 OF 42



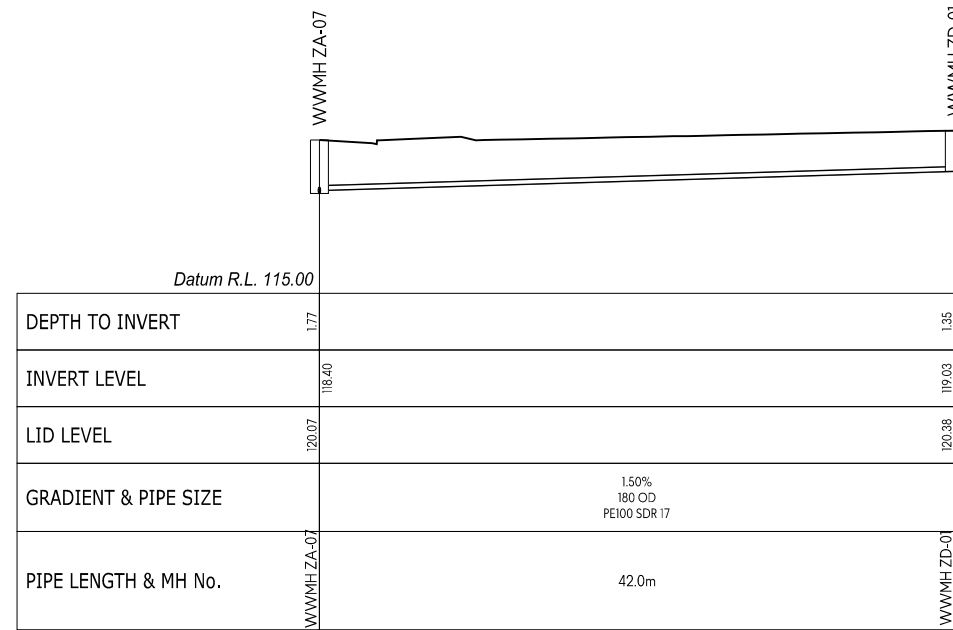
DESIGNED: PWJ DRAWN: LB
 CHECKED: KD PLOT DATE: 12-02-2026
 SCALE A1: 1:250 SCALE A3: 1:500
 STATUS: RESOURCE CONSENT
 PROJECT No: 1753-02 DRAWING No: 4426 REVISION: R2

NOTES:

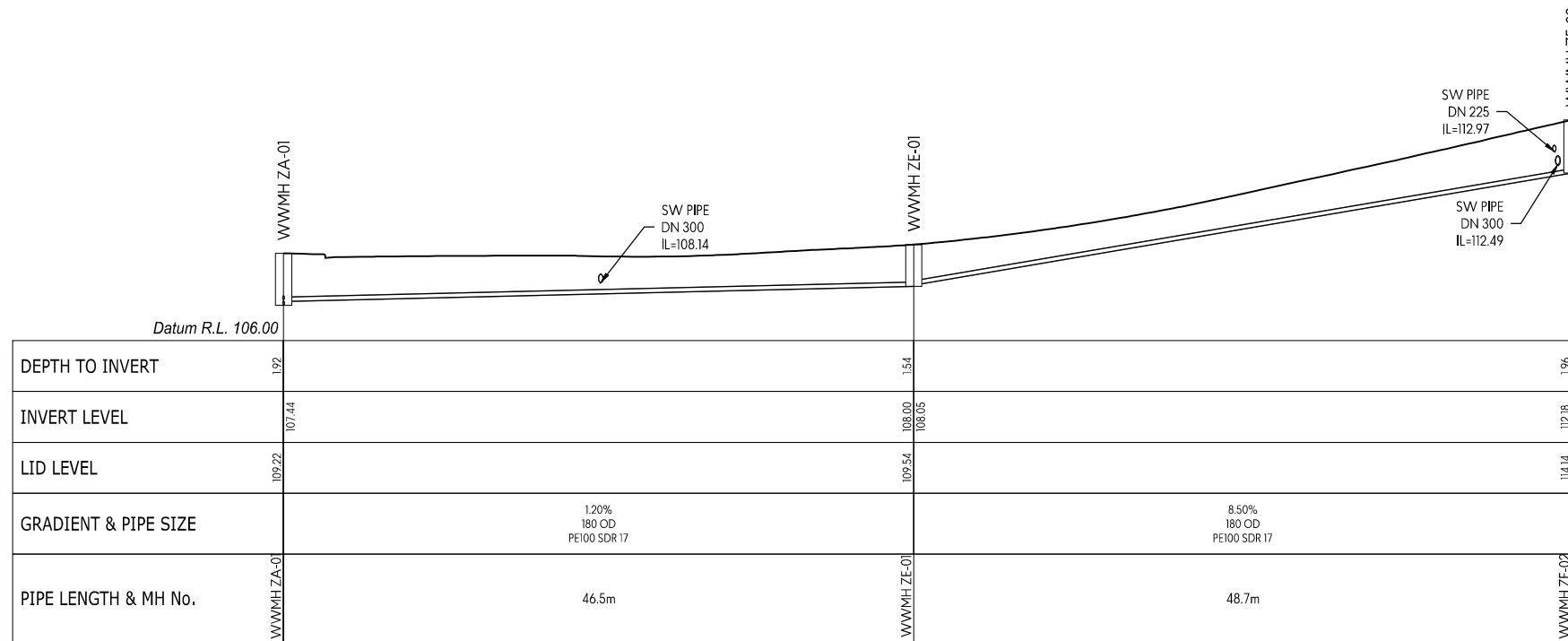
1. LONG SECTIONS ARE SHOWN WITH A 2x VERTICAL EXAGGERATION.
2. ——— INDICATES PROPOSED GROUND LEVELS.



WW LINE ZC



WW LINE ZD



WW LINE ZE

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REV	NOTES	BY	DATE
R1	RESOURCE CONSENT ISSUE	PWJ	13-11-2025
R2	MINOR AMENDMENTS	PWJ	12-02-2026

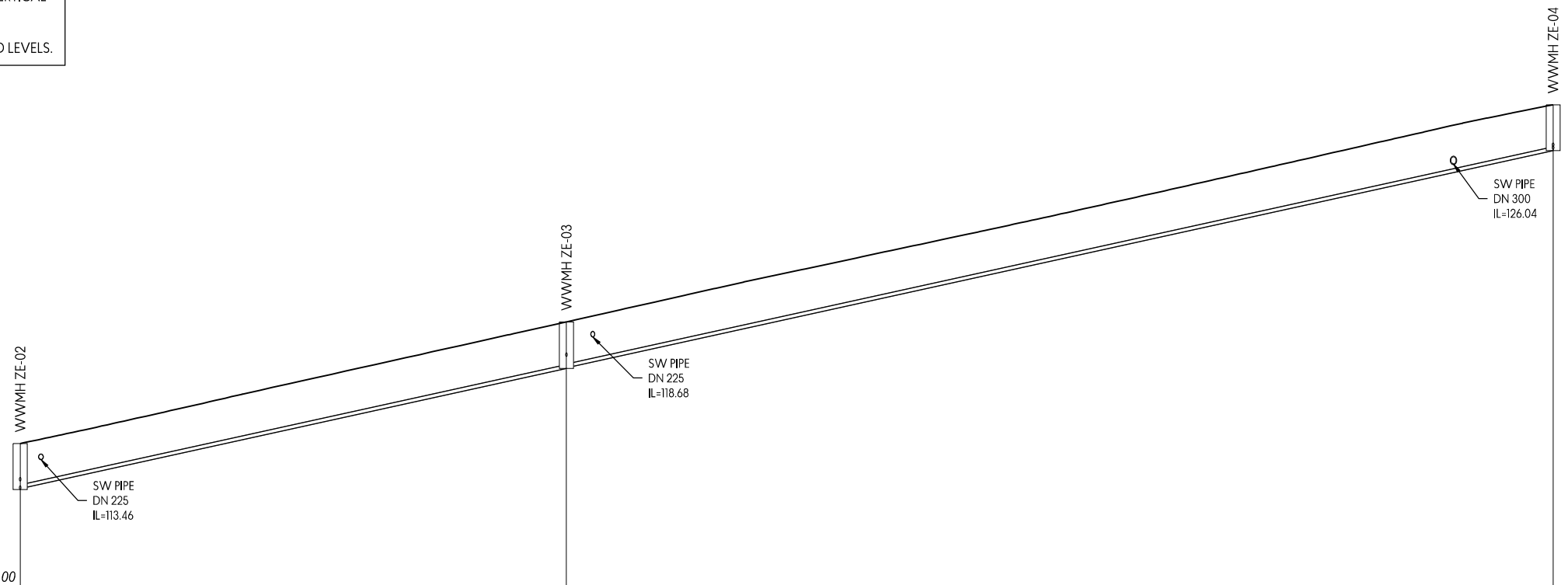
PROJECT:
**PUKERUA PROPERTY GROUP LP
 MT WELCOME - PUKERUA BAY
 PORIRUA**

TITLE:
**PROPOSED DRAINAGE
 WASTEWATER LONG-SECTIONS
 SHEET 28 OF 42**



DESIGNED: PWJ	DRAWN: LB
CHECKED: KD	PLOT DATE: 12-02-2026
SCALE A1: 1:250	SCALE A3: 1:500
STATUS: RESOURCE CONSENT	
PROJECT No: 1753-02	DRAWING No: 4427
	REVISION: R2

- NOTES:
- LONG SECTIONS ARE SHOWN WITH A 2x VERTICAL EXAGGERATION.
 - INDICATES PROPOSED GROUND LEVELS.



	WWMH ZE-02	WWMH ZE-03	WWMH ZE-04
DEPTH TO INVERT	1.96	1.98	1.96
INVERT LEVEL	112.22	117.33 117.36	126.60
LID LEVEL	114.14	119.31	128.56
GRADIENT & PIPE SIZE	11.00% 180 OD PE100 SDR 17		11.00% 180 OD PE100 SDR 17
PIPE LENGTH & MH No.	46.8m		84.5m

WW LINE ZE

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REVISIONS:

REV	NOTES	BY	DATE
R1	RESOURCE CONSENT ISSUE	PWJ	13-11-2025
R2	MINOR AMENDMENTS	PWJ	12-02-2026

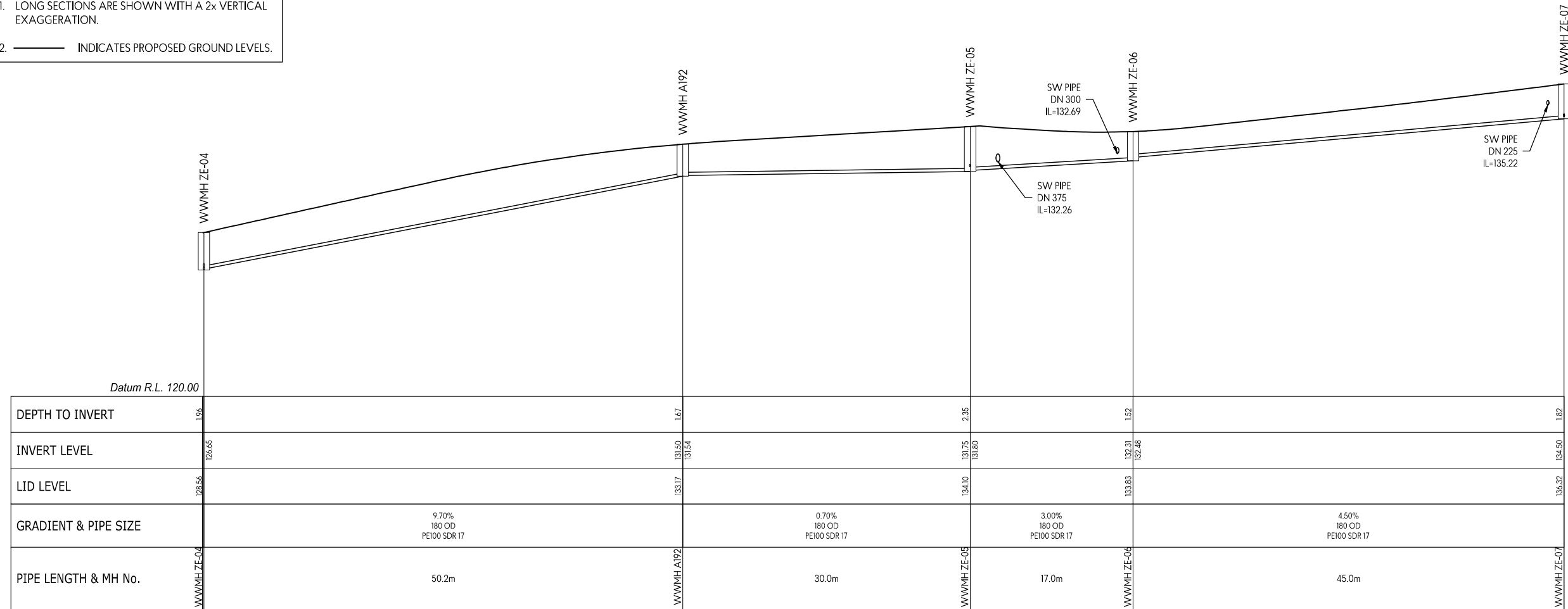
PROJECT:
 PUKERUA PROPERTY GROUP LP
 MT WELCOME - PUKERUA BAY
 PORIRUA

TITLE:
 PROPOSED DRAINAGE
 WASTEWATER LONG-SECTIONS
 SHEET 29 OF 42

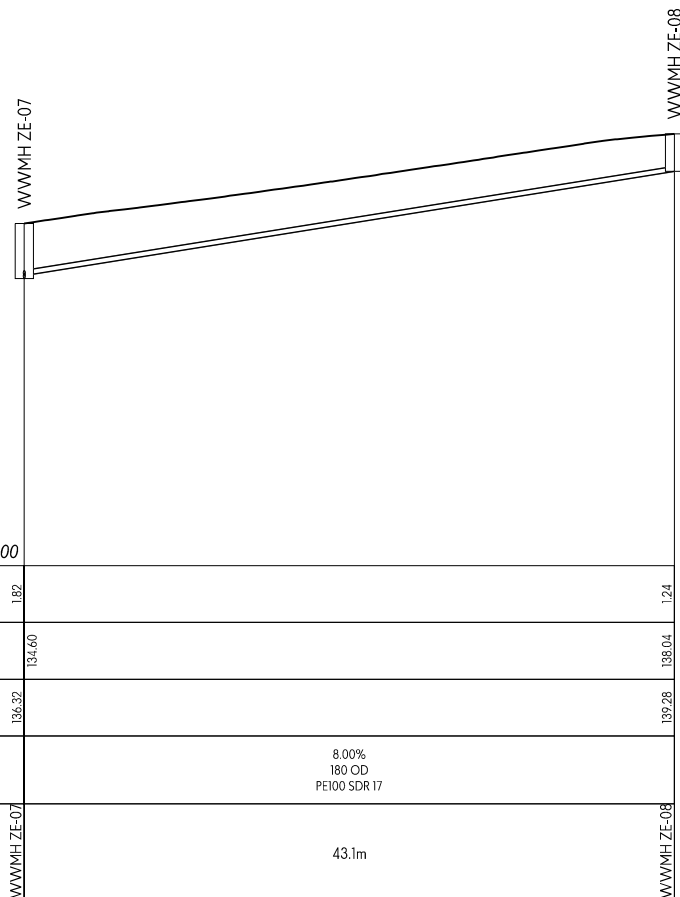


DESIGNED: PWJ DRAWN: LB
 CHECKED: KD PLOT DATE: 12-02-2026
 SCALE A1: 1:250 SCALE A3: 1:500
 STATUS: RESOURCE CONSENT
 PROJECT No: 1753-02 DRAWING No: 4428 REVISION: R2

- NOTES:
- LONG SECTIONS ARE SHOWN WITH A 2x VERTICAL EXAGGERATION.
 - INDICATES PROPOSED GROUND LEVELS.



WW LINE ZE



WW LINE ZE

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REV	NOTES	BY	DATE
R1	RESOURCE CONSENT ISSUE	PWJ	13-11-2025
R2	MINOR AMENDMENTS	PWJ	12-02-2026

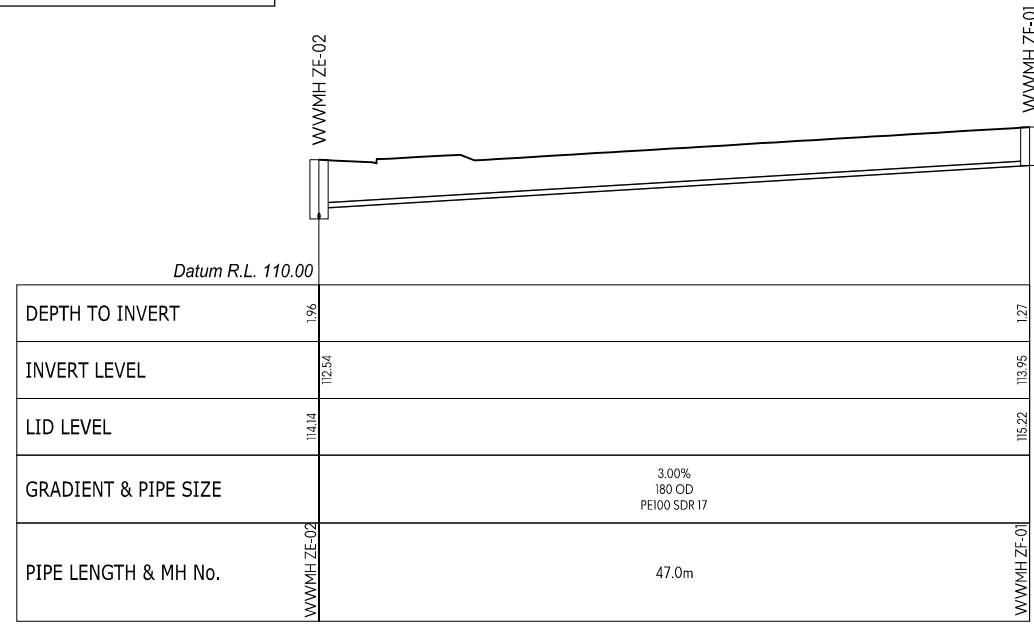
PROJECT:
 PUKERUA PROPERTY GROUP LP
 MT WELCOME - PUKERUA BAY
 PORIRUA

TITLE:
 PROPOSED DRAINAGE
 WASTEWATER LONG-SECTIONS
 SHEET 30 OF 42

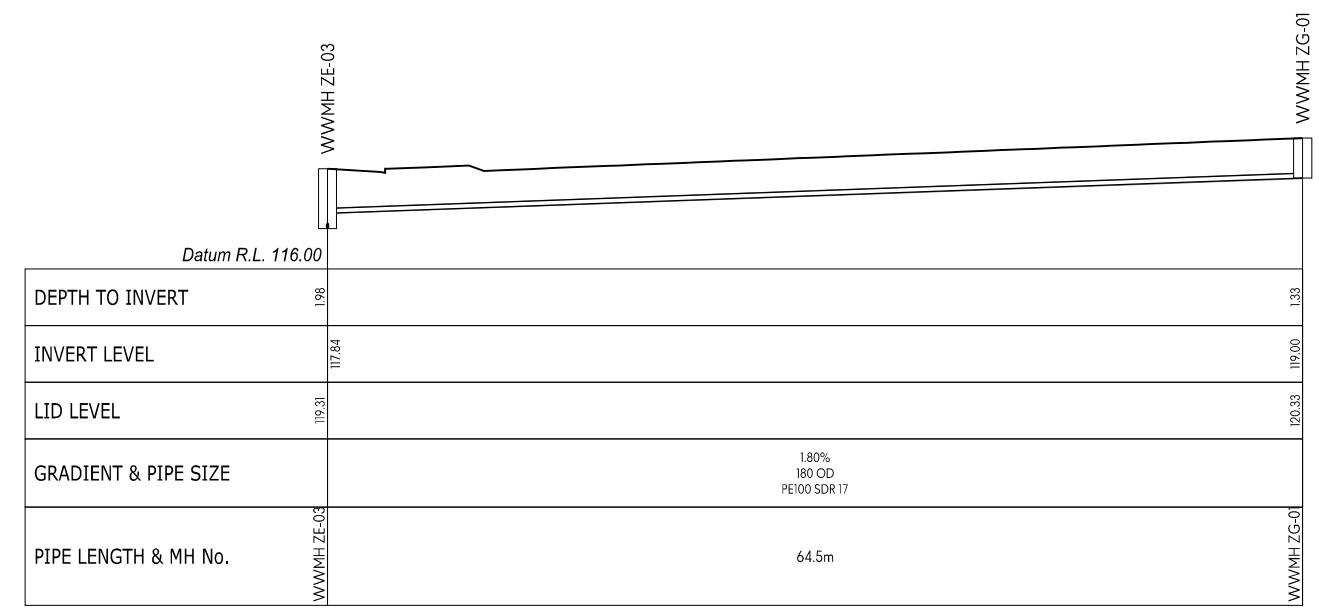


DESIGNED: PWJ DRAWN: LB
 CHECKED: KD PLOT DATE: 12-02-2026
 SCALE A1: 1:250 SCALE A3: 1:500
 STATUS: RESOURCE CONSENT
 PROJECT No: 1753-02 DRAWING No: 4429 REVISION: R2

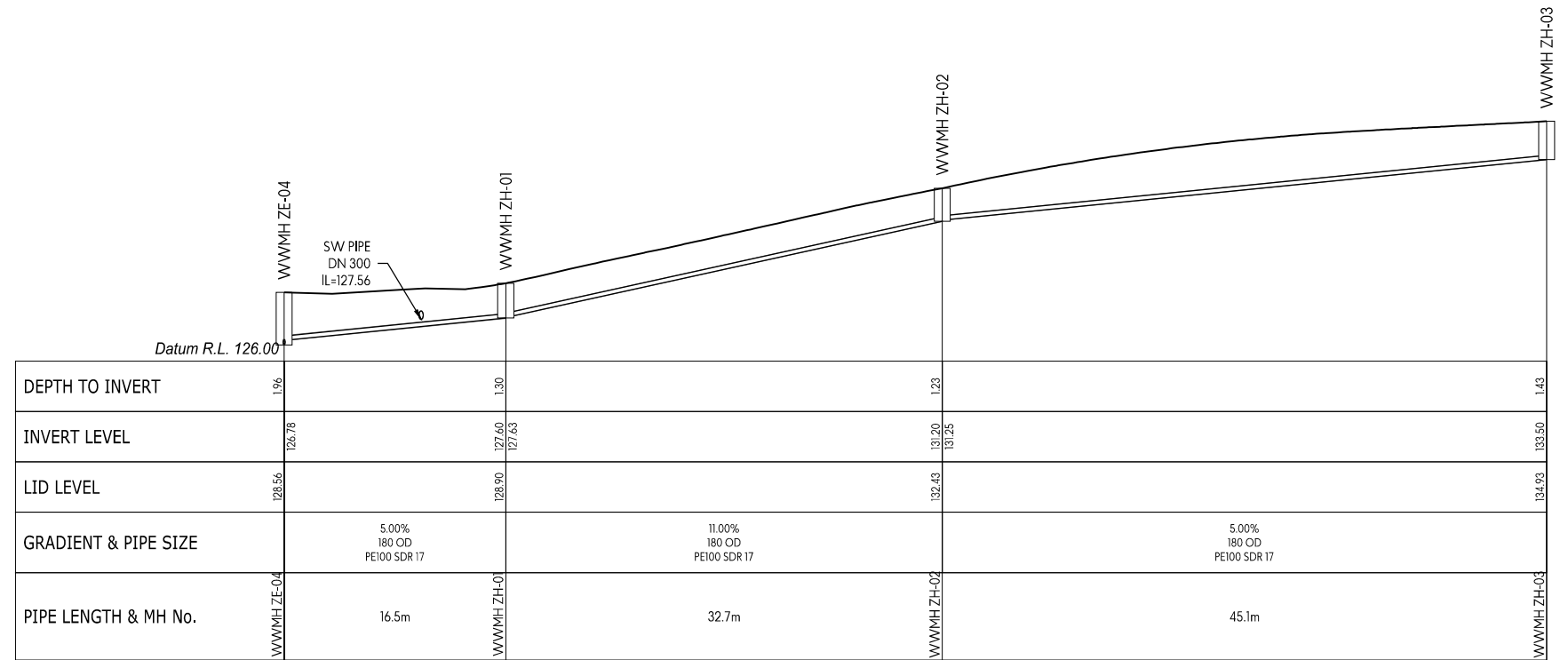
- NOTES:
- LONG SECTIONS ARE SHOWN WITH A 2x VERTICAL EXAGGERATION.
 - INDICATES PROPOSED GROUND LEVELS.



WW LINE ZF



WW LINE ZG



WW LINE ZH

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REVISIONS:			
REV	NOTES	BY	DATE
R1	RESOURCE CONSENT ISSUE	PWJ	13-11-2025
R2	MINOR AMENDMENTS	PWJ	12-02-2026

PROJECT:
**PUKERUA PROPERTY GROUP LP
 MT WELCOME - PUKERUA BAY
 PORIRUA**

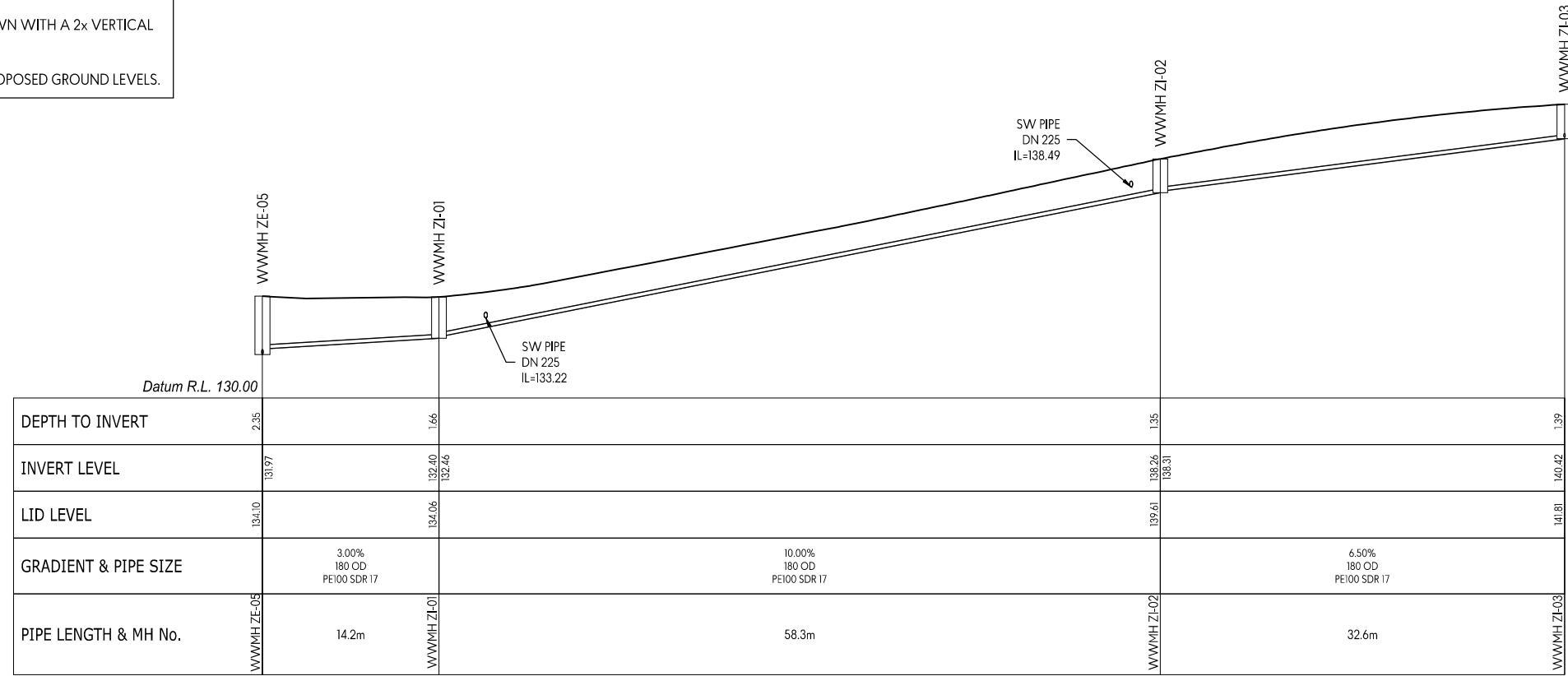
TITLE:
**PROPOSED DRAINAGE
 WASTEWATER LONG-SECTIONS
 SHEET 31 OF 42**



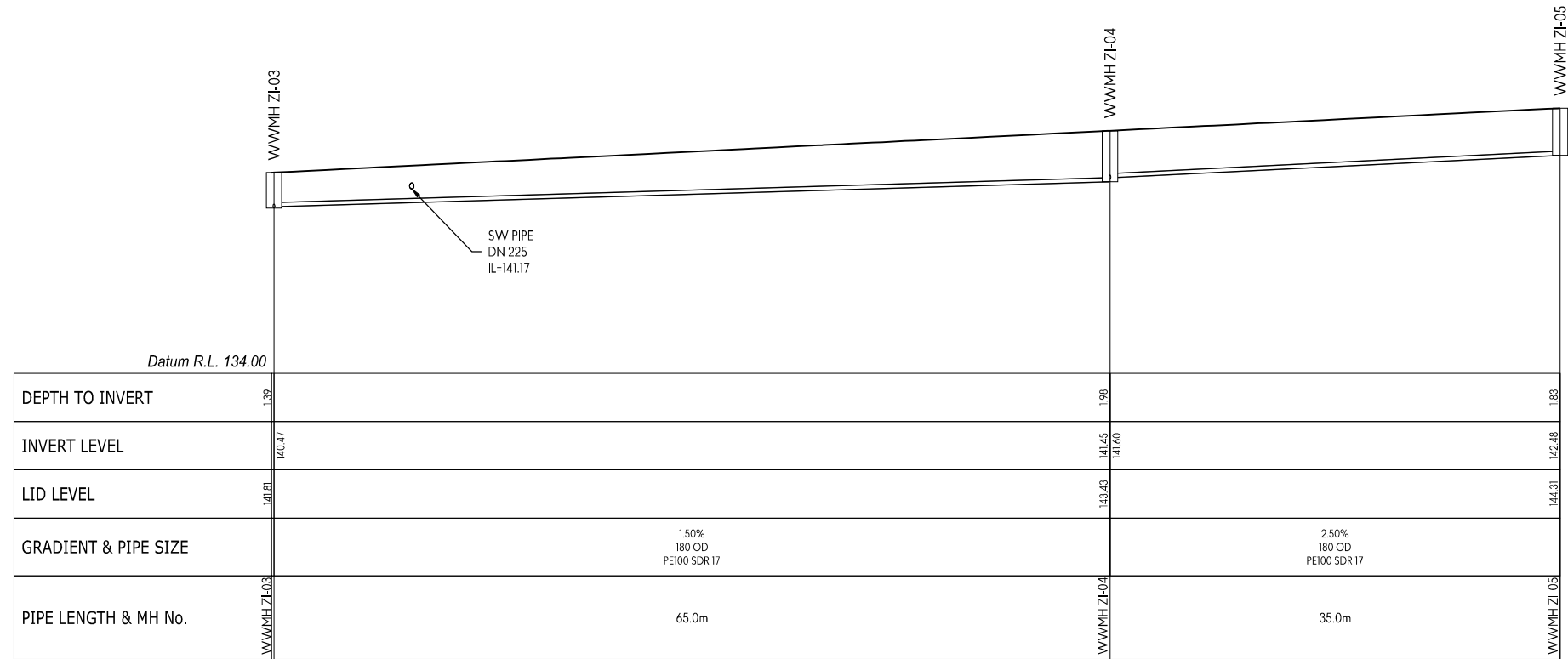
DESIGNED: PWJ DRAWN: LB
 CHECKED: KD PLOT DATE: 12-02-2026
 SCALE A1: 1:250 SCALE A3: 1:500
 STATUS: RESOURCE CONSENT
 PROJECT No: **1753-02** DRAWING No: **4430** REVISION: **R2**

NOTES:

- LONG SECTIONS ARE SHOWN WITH A 2x VERTICAL EXAGGERATION.
- INDICATES PROPOSED GROUND LEVELS.



WW LINE ZI



WW LINE ZI

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REV	NOTES	BY	DATE
R1	RESOURCE CONSENT ISSUE	PWJ	13-11-2025
R2	MINOR AMENDMENTS	PWJ	12-02-2026

PROJECT:
 PUKERUA PROPERTY GROUP LP
 MT WELCOME - PUKERUA BAY
 PORIRUA

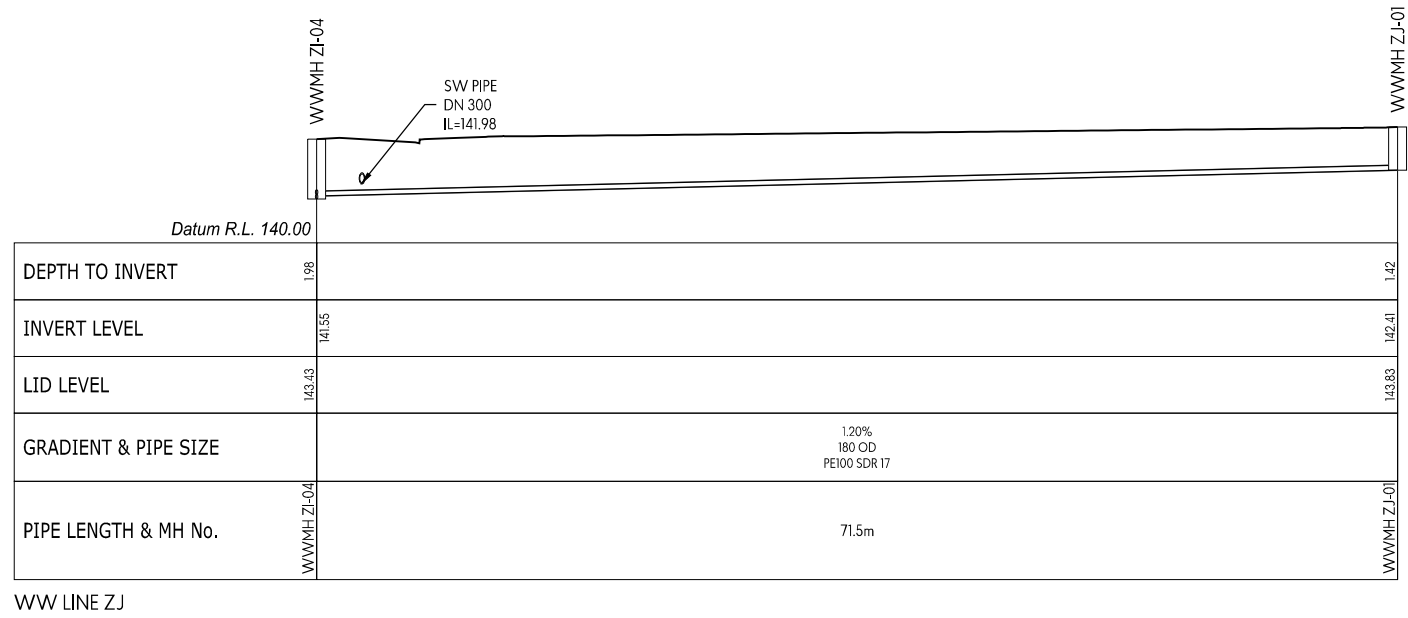
TITLE:
 PROPOSED DRAINAGE
 WASTEWATER LONG-SECTIONS
 SHEET 32 OF 42



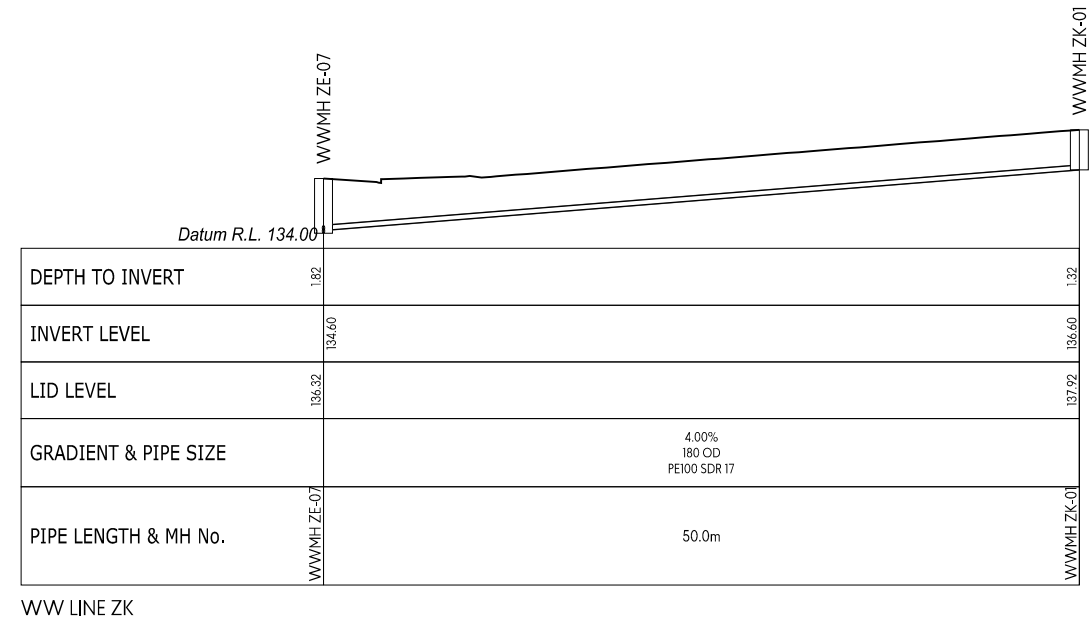
DESIGNED: PWJ DRAWN: LB
 CHECKED: KD PLOT DATE: 12-02-2026
 SCALE A1: 1:250 SCALE A3: 1:500
 STATUS: RESOURCE CONSENT
 PROJECT No: 1753-02 DRAWING No: 4431 REVISION: R2

NOTES:

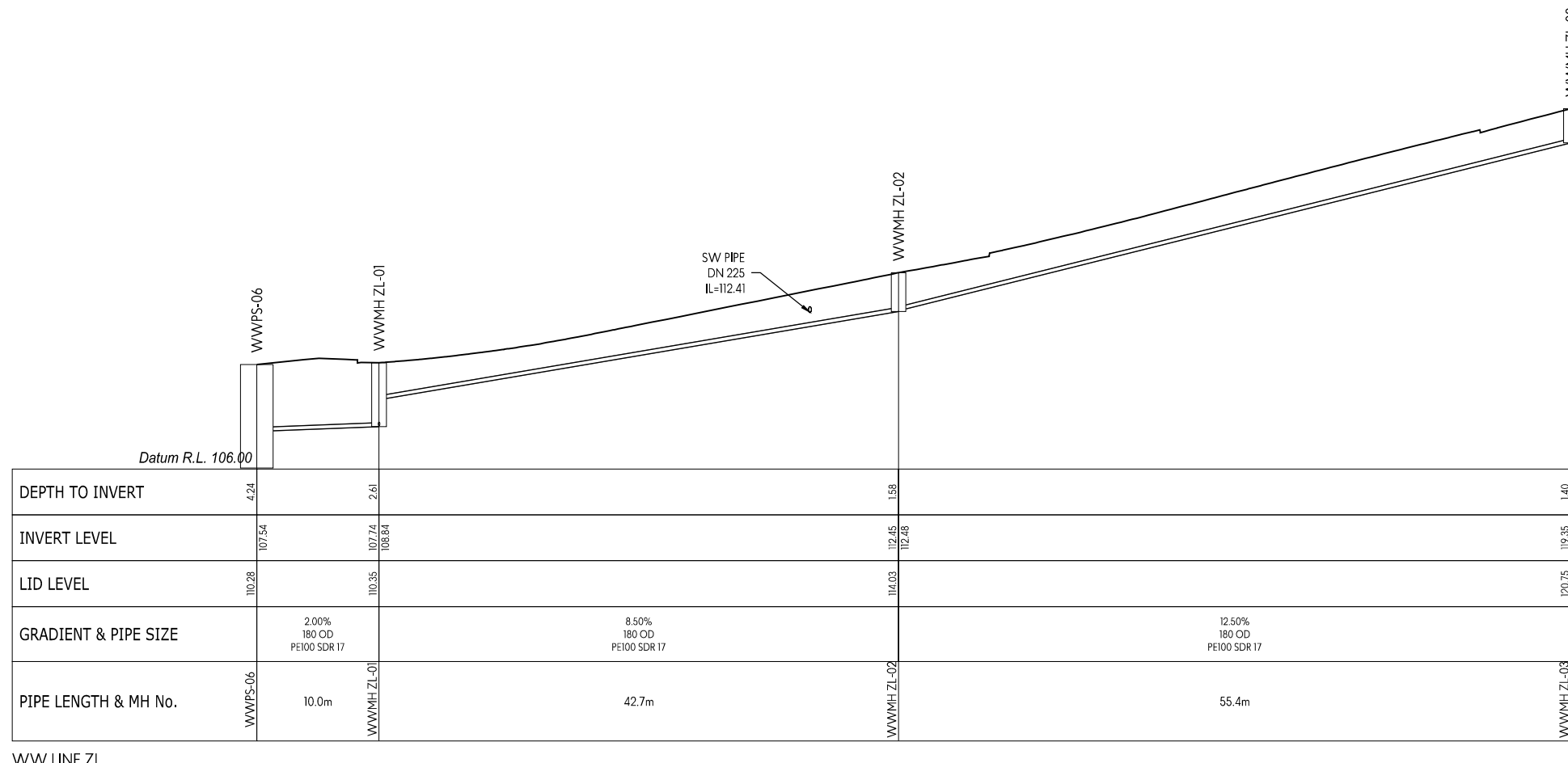
- LONG SECTIONS ARE SHOWN WITH A 2x VERTICAL EXAGGERATION.
- INDICATES PROPOSED GROUND LEVELS.



WW LINE ZJ



WW LINE ZK



WW LINE ZL

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REV	NOTES	BY	DATE
R1	RESOURCE CONSENT ISSUE	PWJ	13-11-2025
R2	MINOR AMENDMENTS	PWJ	12-02-2026

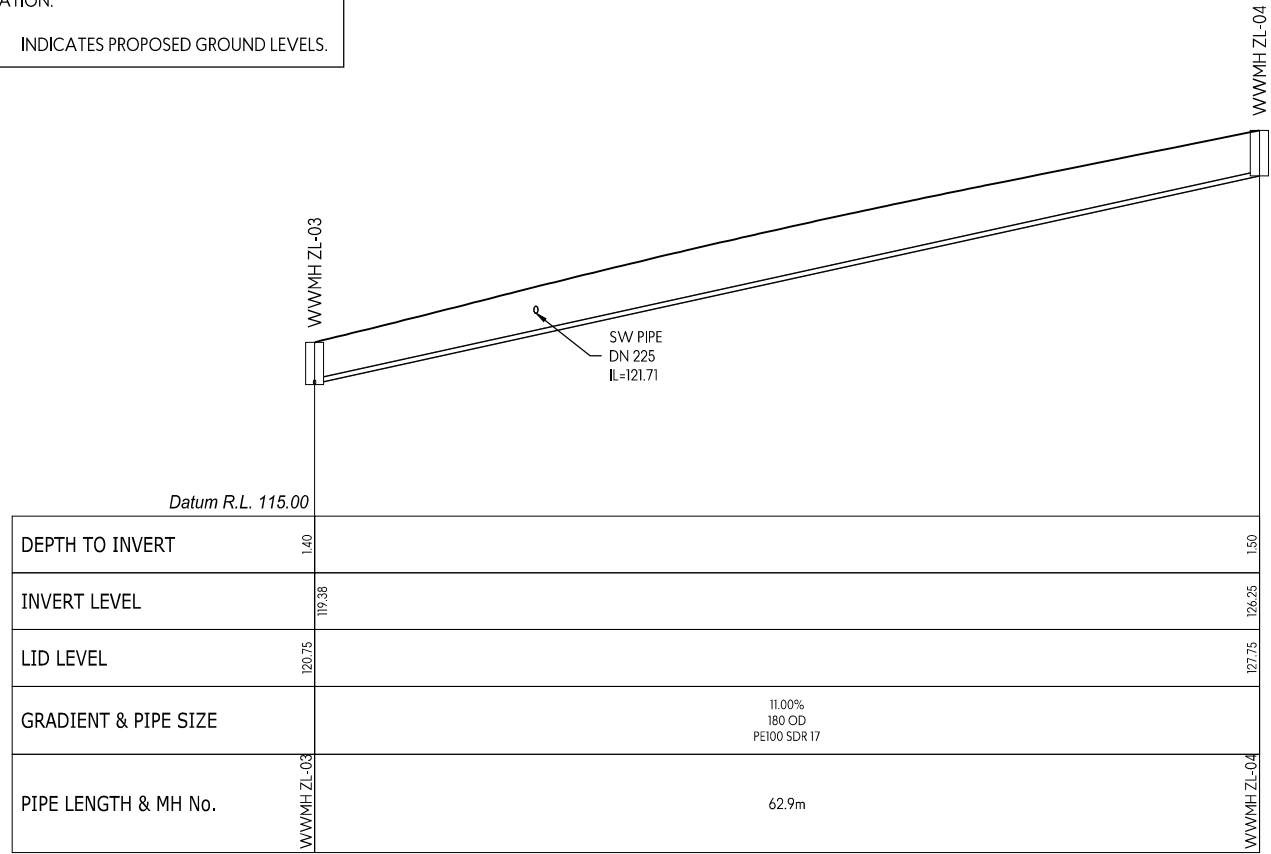
PROJECT:
**PUKERUA PROPERTY GROUP LP
 MT WELCOME - PUKERUA BAY
 PORIRUA**

TITLE:
**PROPOSED DRAINAGE
 WASTEWATER LONG-SECTIONS
 SHEET 33 OF 42**

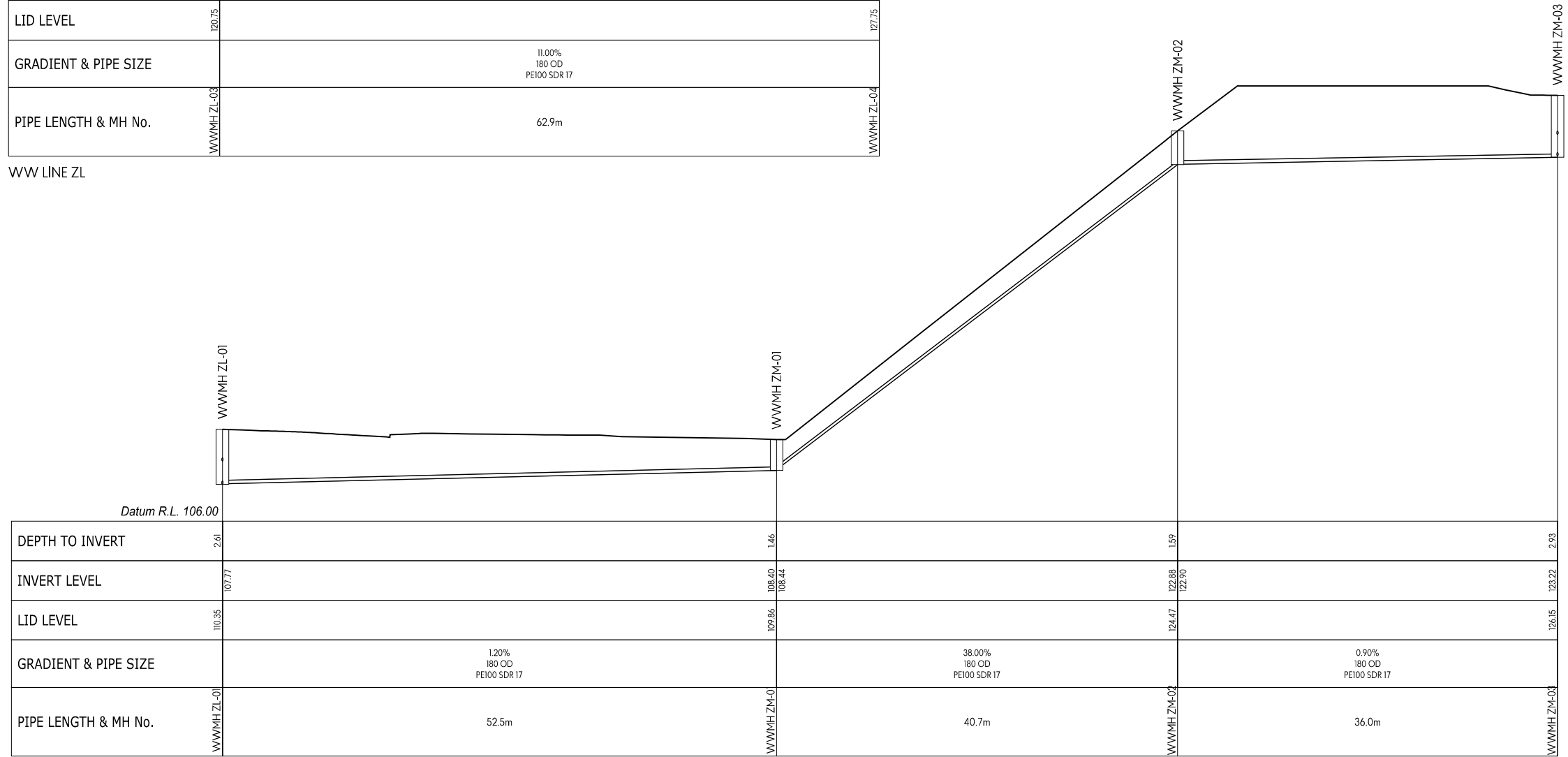


DESIGNED: PWJ DRAWN: LB
 CHECKED: KD PLOT DATE: 12-02-2026
 SCALE A1: 1:250 SCALE A3: 1:500
 STATUS: RESOURCE CONSENT
 PROJECT No: **1753-02** DRAWING No: **4432** REVISION: **R2**

- NOTES:
- LONG SECTIONS ARE SHOWN WITH A 2x VERTICAL EXAGGERATION.
 - INDICATES PROPOSED GROUND LEVELS.



WW LINE ZL



WW LINE ZM

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REV	NOTES	BY	DATE
R1	RESOURCE CONSENT ISSUE	PWJ	13-11-2025
R2	MINOR AMENDMENTS	PWJ	12-02-2026

PROJECT:
 PUKERUA PROPERTY GROUP LP
 MT WELCOME - PUKERUA BAY
 PORIRUA

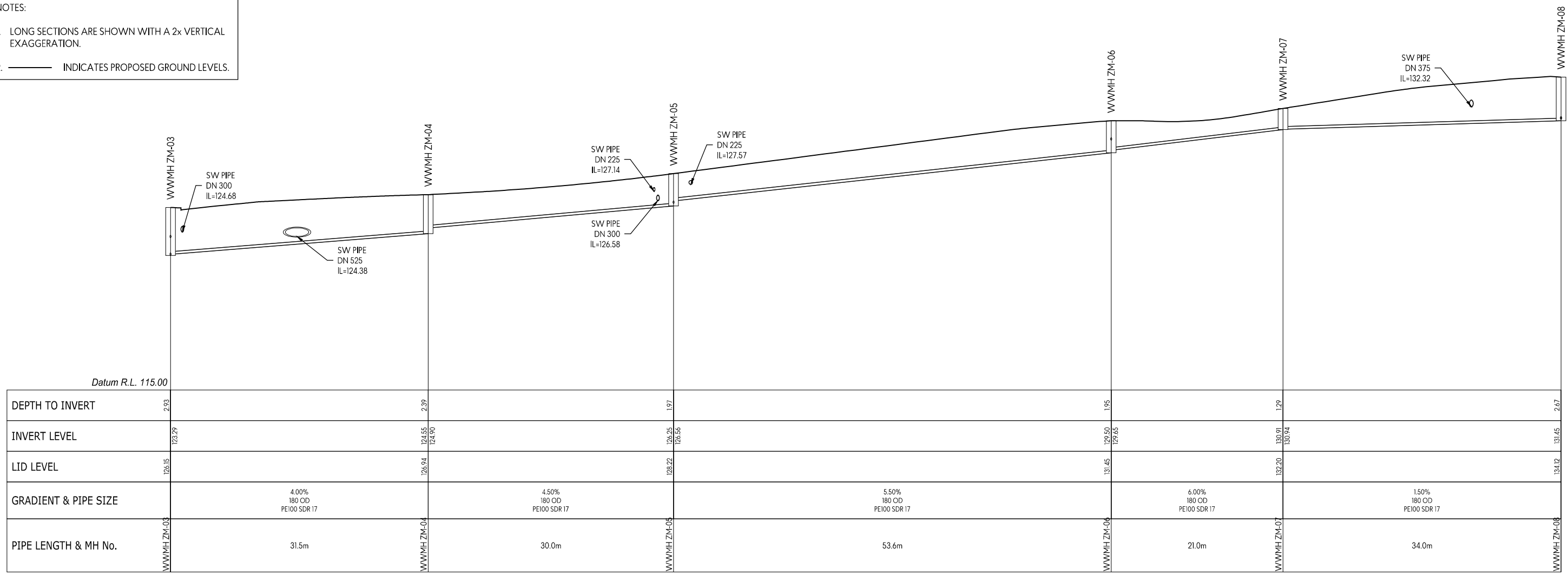
TITLE:
 PROPOSED DRAINAGE
 WASTEWATER LONG-SECTIONS
 SHEET 34 OF 42



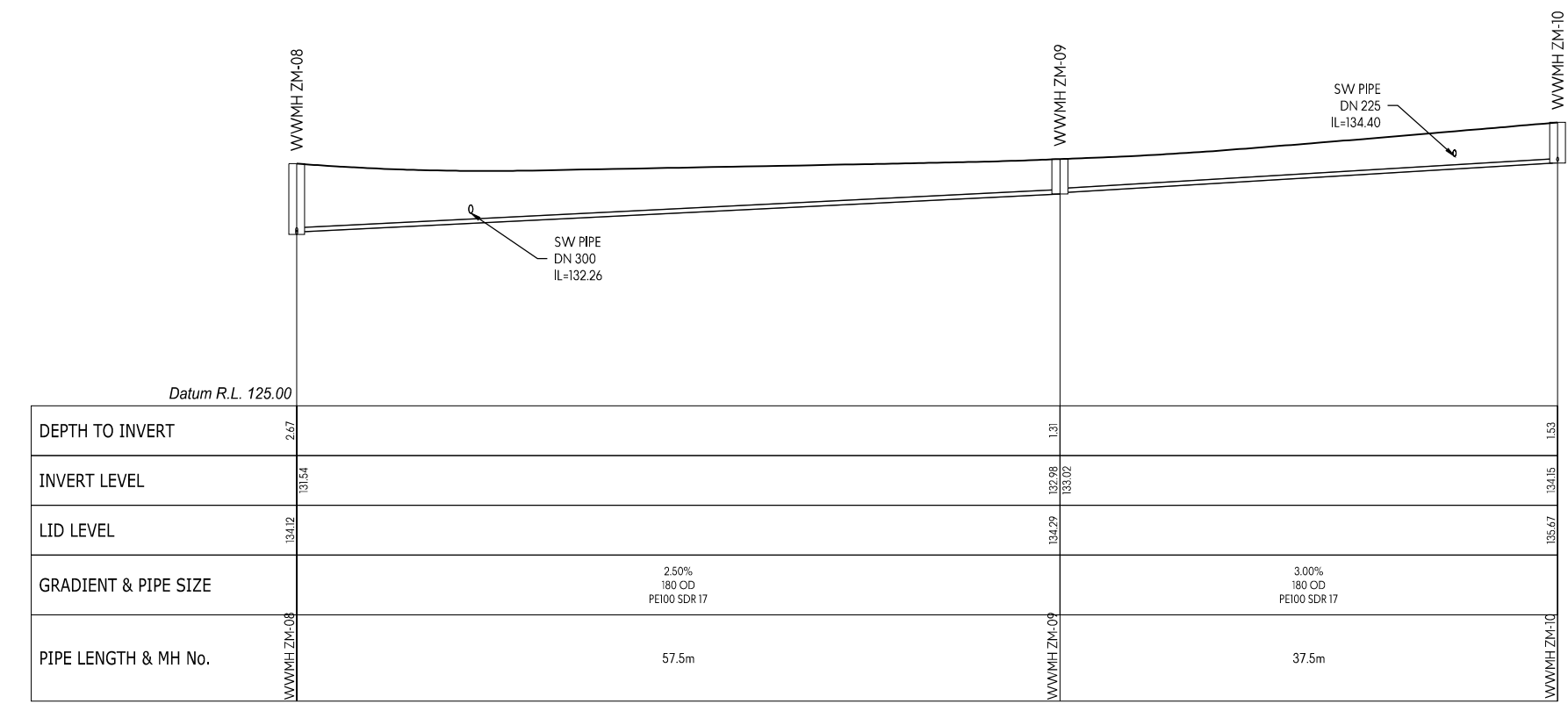
DESIGNED: PWJ DRAWN: LB
 CHECKED: KD PLOT DATE: 12-02-2026
 SCALE A1: 1:250 SCALE A3: 1:500
 STATUS: RESOURCE CONSENT

PROJECT No: **1753-02** DRAWING No: **4433** REVISION: **R2**

- NOTES:
- LONG SECTIONS ARE SHOWN WITH A 2x VERTICAL EXAGGERATION.
 - INDICATES PROPOSED GROUND LEVELS.



WW LINE ZM



WW LINE ZM

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REV	NOTES	BY	DATE
R1	RESOURCE CONSENT ISSUE	PWJ	13-11-2025
R2	MINOR AMENDMENTS	PWJ	12-02-2026

PROJECT:
 PUKERUA PROPERTY GROUP LP
 MT WELCOME - PUKERUA BAY
 PORIRUA

TITLE:
 PROPOSED DRAINAGE
 WASTEWATER LONG-SECTIONS
 SHEET 35 OF 42

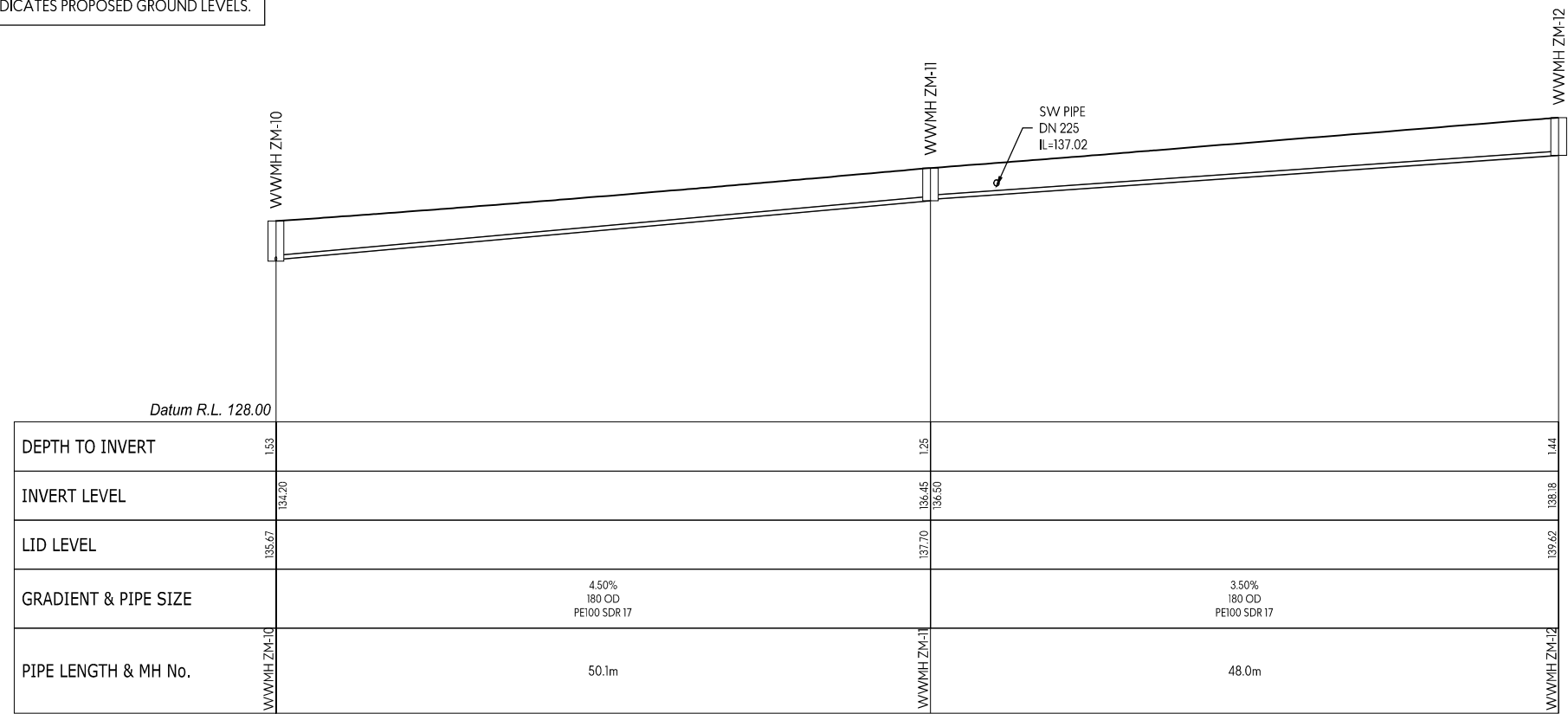


DESIGNED: PWJ
 CHECKED: KD
 SCALE A1: 1:250
 STATUS: RESOURCE CONSENT
 PROJECT No: 1753-02

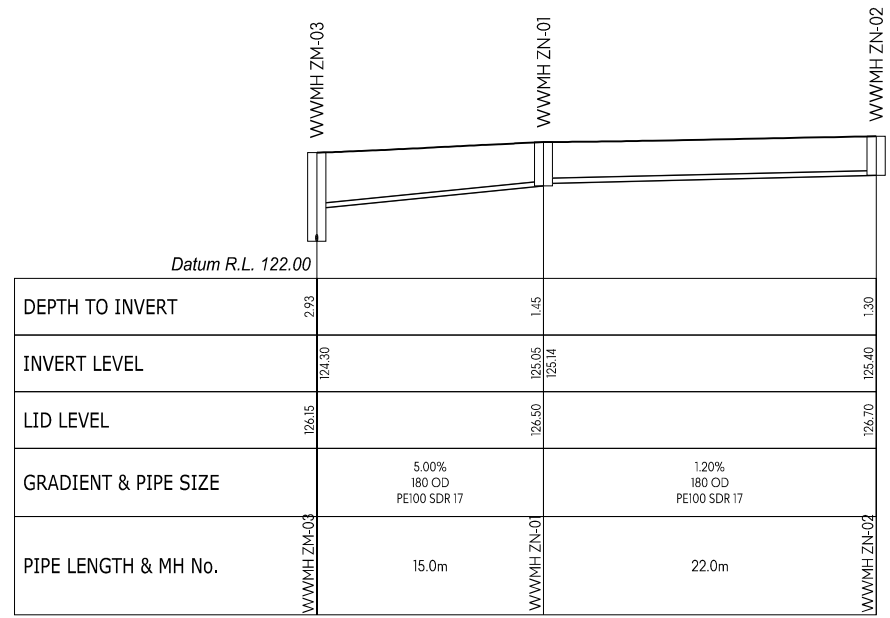
DRAWN: LB
 PLOT DATE: 12-02-2026
 SCALE A3: 1:500
 DRAWING No: 4434

REVISION: R2

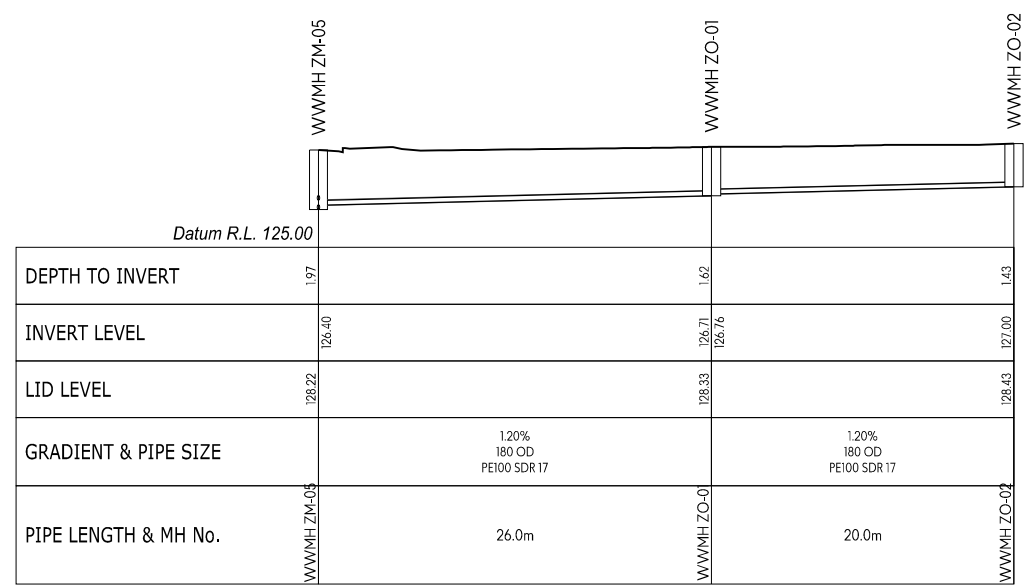
- NOTES:
- LONG SECTIONS ARE SHOWN WITH A 2x VERTICAL EXAGGERATION.
 - INDICATES PROPOSED GROUND LEVELS.



WW LINE ZM



WW LINE ZN



WW LINE ZO

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REV	NOTES	BY	DATE
R1	RESOURCE CONSENT ISSUE	PWJ	13-11-2025
R2	MINOR AMENDMENTS	PWJ	12-02-2026

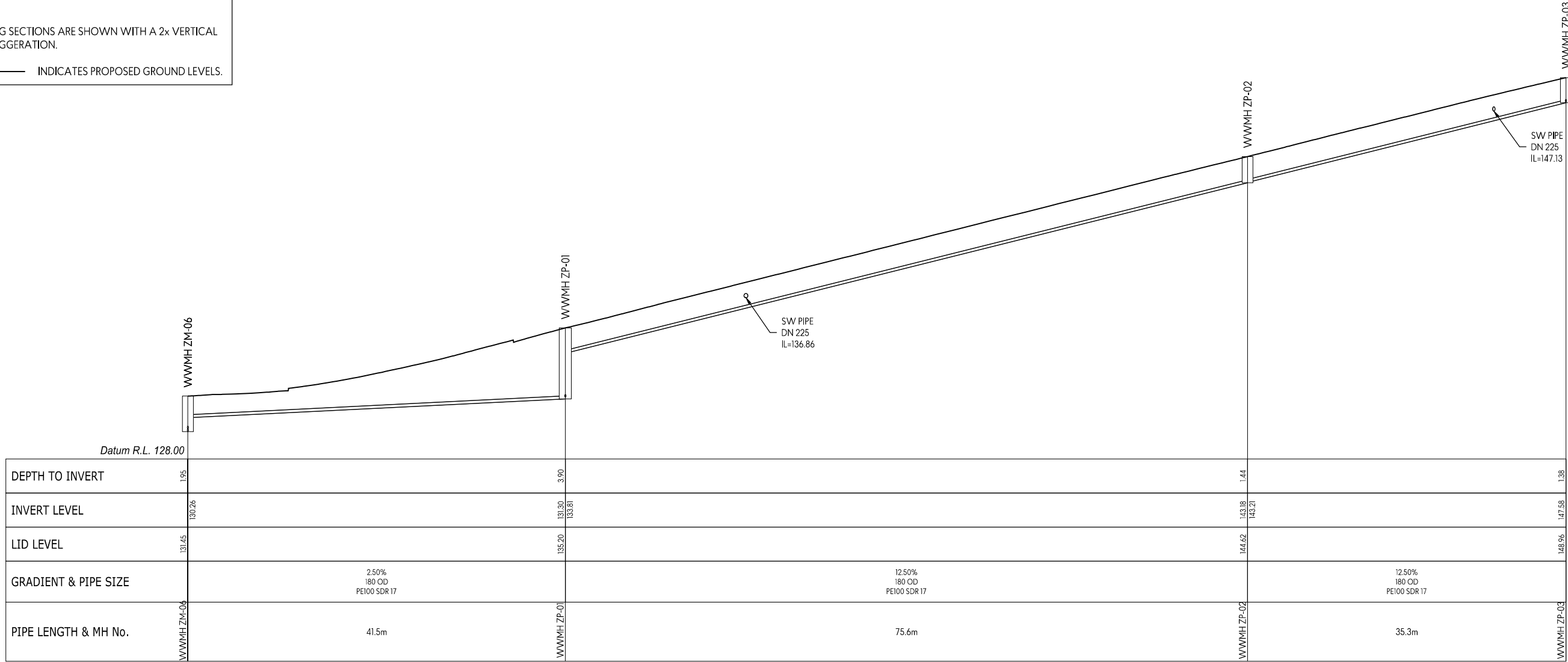
PROJECT:
**PUKERUA PROPERTY GROUP LP
 MT WELCOME - PUKERUA BAY
 PORIRUA**

TITLE:
**PROPOSED DRAINAGE
 WASTEWATER LONG-SECTIONS
 SHEET 36 OF 42**

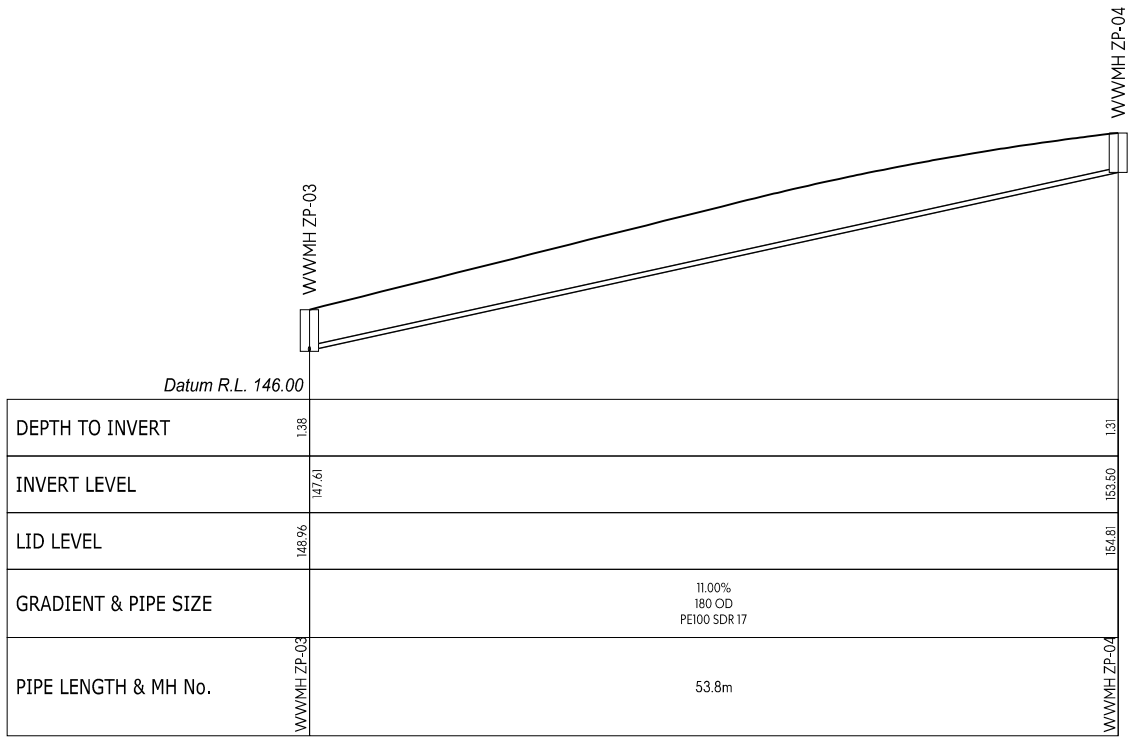


DESIGNED: PWJ DRAWN: LB
 CHECKED: KD PLOT DATE: 12-02-2026
 SCALE A1: 1:250 SCALE A3: 1:500
 STATUS: RESOURCE CONSENT
 PROJECT No: **1753-02** DRAWING No: **4435** REVISION: **R2**

- NOTES:
- LONG SECTIONS ARE SHOWN WITH A 2x VERTICAL EXAGGERATION.
 - INDICATES PROPOSED GROUND LEVELS.



WW LINE ZP



WW LINE ZP

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REV	NOTES	BY	DATE
R1	RESOURCE CONSENT ISSUE	PWJ	13-11-2025
R2	MINOR AMENDMENTS	PWJ	12-02-2026

PROJECT:
**PUKERUA PROPERTY GROUP LP
 MT WELCOME - PUKERUA BAY
 PORIRUA**

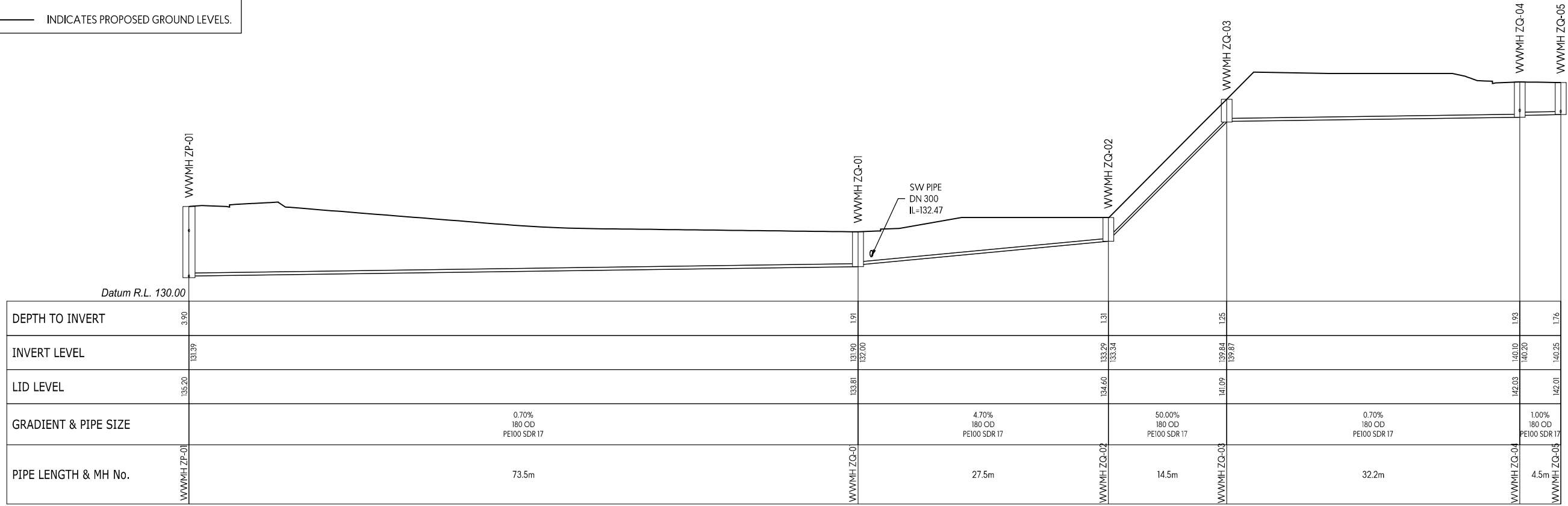
TITLE:
**PROPOSED DRAINAGE
 WASTEWATER LONG-SECTIONS
 SHEET 37 OF 42**



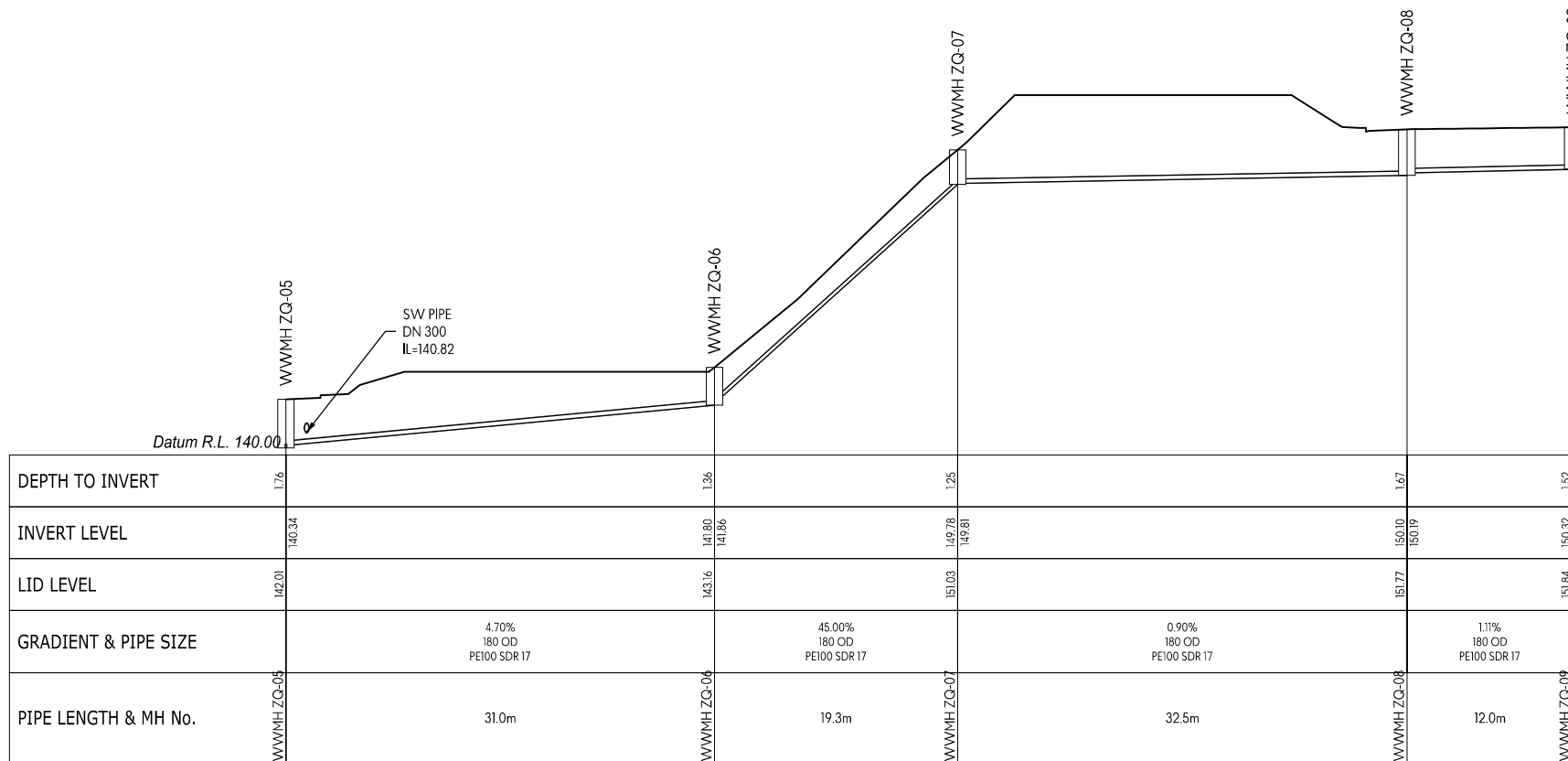
DESIGNED: PWJ DRAWN: LB
 CHECKED: KD PLOT DATE: 12-02-2026
 SCALE A1: 1:250 SCALE A3: 1:500
 STATUS: RESOURCE CONSENT
 PROJECT No: **1753-02** DRAWING No: **4436** REVISION: **R2**

NOTES:

- LONG SECTIONS ARE SHOWN WITH A 2x VERTICAL EXAGGERATION.
- INDICATES PROPOSED GROUND LEVELS.



WW LINE ZQ



WW LINE ZQ

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REV	NOTES	BY	DATE
R1	RESOURCE CONSENT ISSUE	PWJ	13-11-2025
R2	MINOR AMENDMENTS	PWJ	12-02-2026

PROJECT:
 PUKERUA PROPERTY GROUP LP
 MT WELCOME - PUKERUA BAY
 PORIRUA

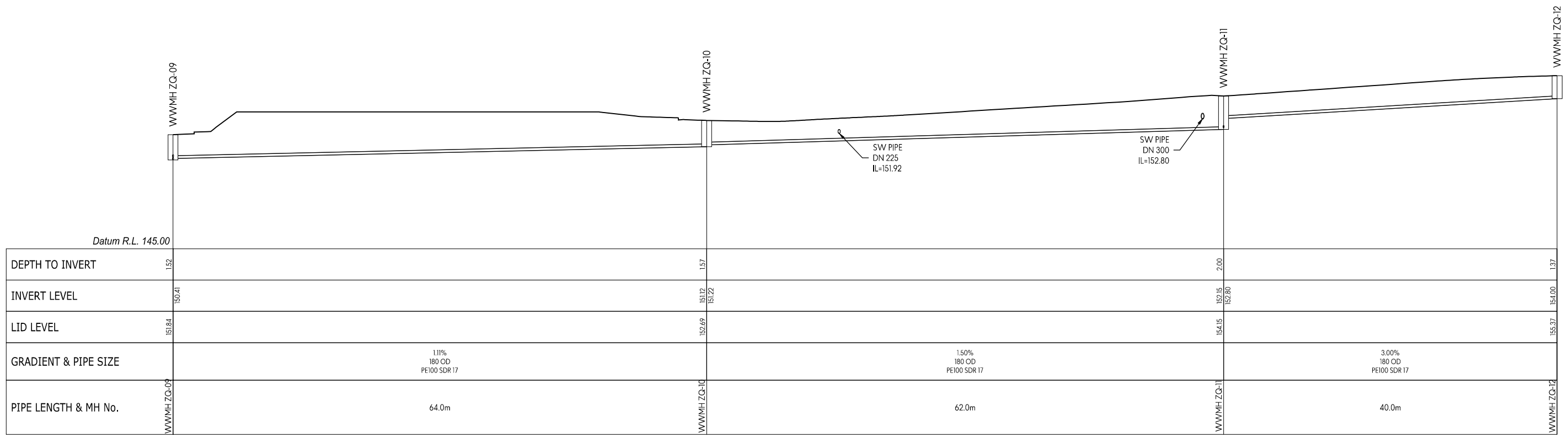
TITLE:
 PROPOSED DRAINAGE
 WASTEWATER LONG-SECTIONS
 SHEET 38 OF 42



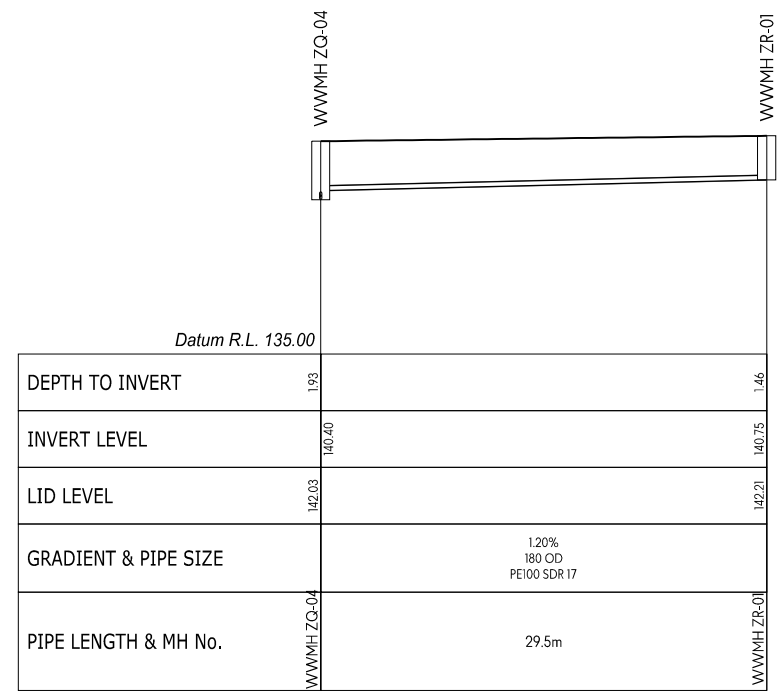
DESIGNED: PWJ
 CHECKED: KD
 SCALE A1: 1:250
 STATUS: RESOURCE CONSENT

DRAWN: LB
 PLOT DATE: 12-02-2026
 SCALE A3: 1:500
 DRAWING No: 4437
 REVISION: R2

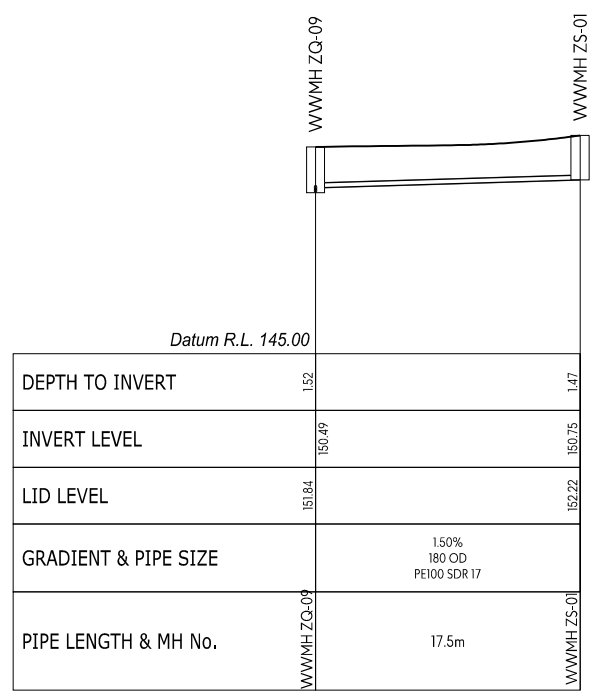
- NOTES:
- LONG SECTIONS ARE SHOWN WITH A 2x VERTICAL EXAGGERATION.
 - INDICATES PROPOSED GROUND LEVELS.



WW LINE ZQ



WW LINE ZR



WW LINE ZS

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REVISIONS:

REV	NOTES	BY	DATE
R1	RESOURCE CONSENT ISSUE	PWJ	13-11-2025
R2	MINOR AMENDMENTS	PWJ	12-02-2026

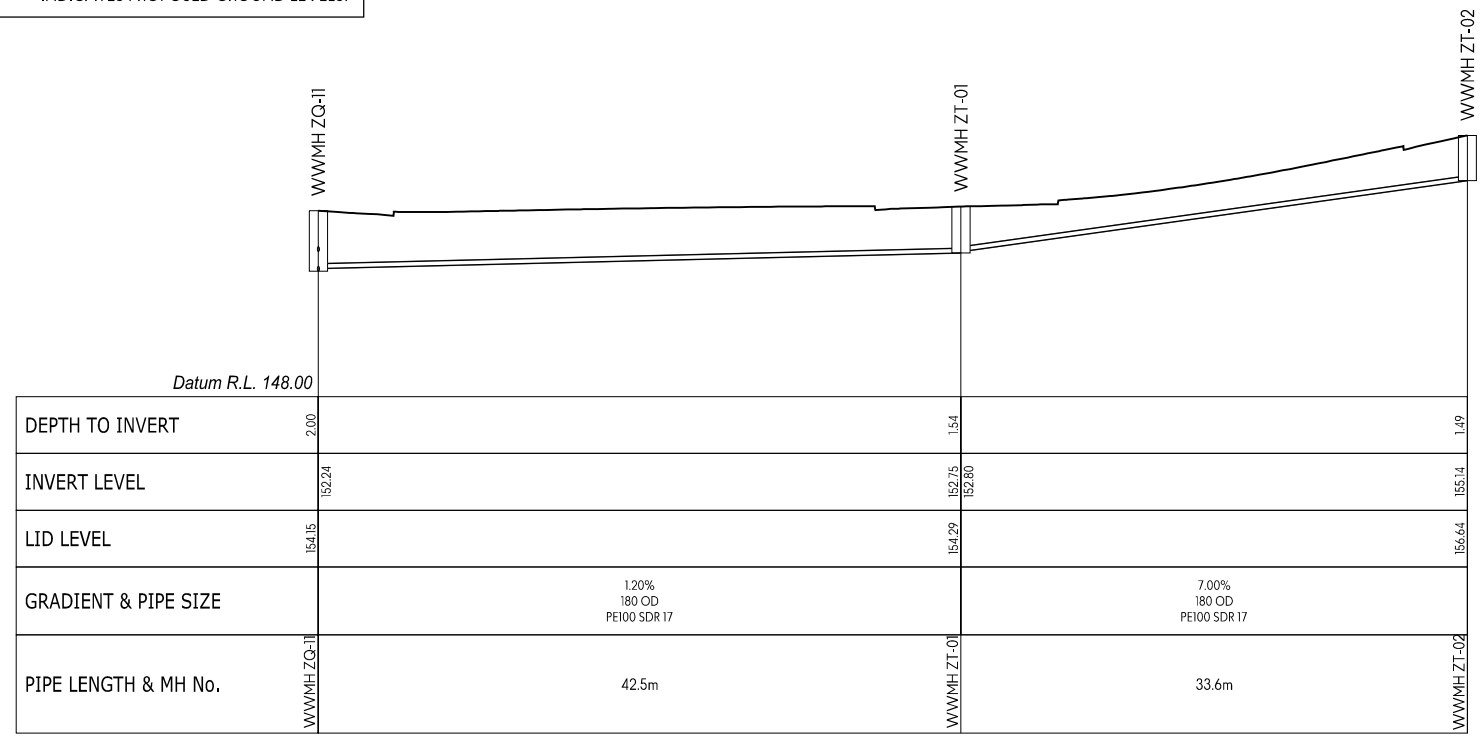
PROJECT:
**PUKERUA PROPERTY GROUP LP
 MT WELCOME - PUKERUA BAY
 PORIRUA**

TITLE:
**PROPOSED DRAINAGE
 WASTEWATER LONG-SECTIONS
 SHEET 39 OF 42**

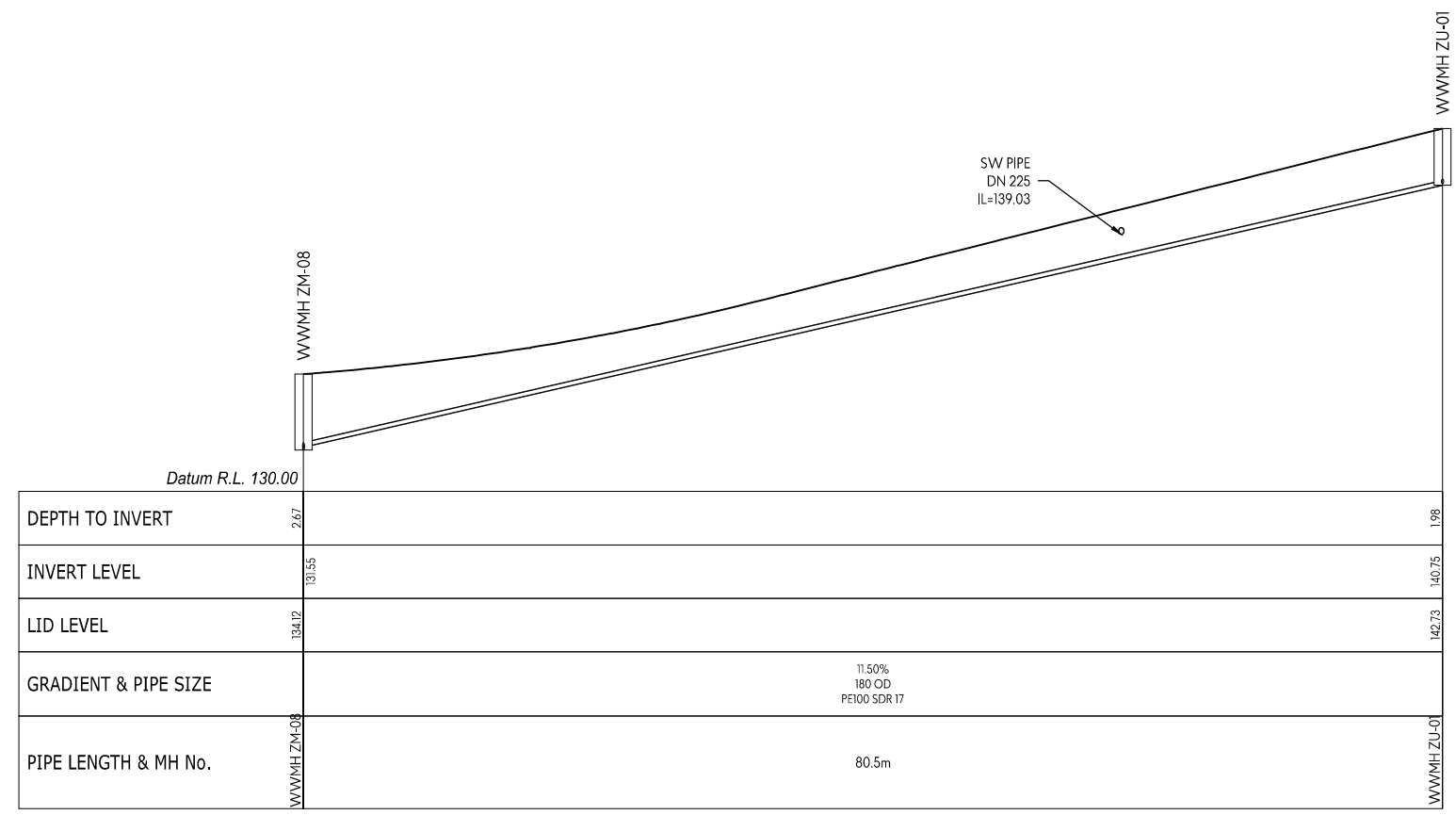


DESIGNED: PWJ DRAWN: LB
 CHECKED: KD PLOT DATE: 12-02-2026
 SCALE A1: 1:250 SCALE A3: 1:500
 STATUS: RESOURCE CONSENT
 PROJECT No: **1753-02** DRAWING No: **4438** REVISION: **R2**

NOTES:
 1. LONG SECTIONS ARE SHOWN WITH A 2x VERTICAL EXAGGERATION.
 2. ——— INDICATES PROPOSED GROUND LEVELS.



WW LINE ZT



WW LINE ZU

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REV	NOTES	BY	DATE
R1	RESOURCE CONSENT ISSUE	PWJ	13-11-2025
R2	MINOR AMENDMENTS	PWJ	12-02-2026

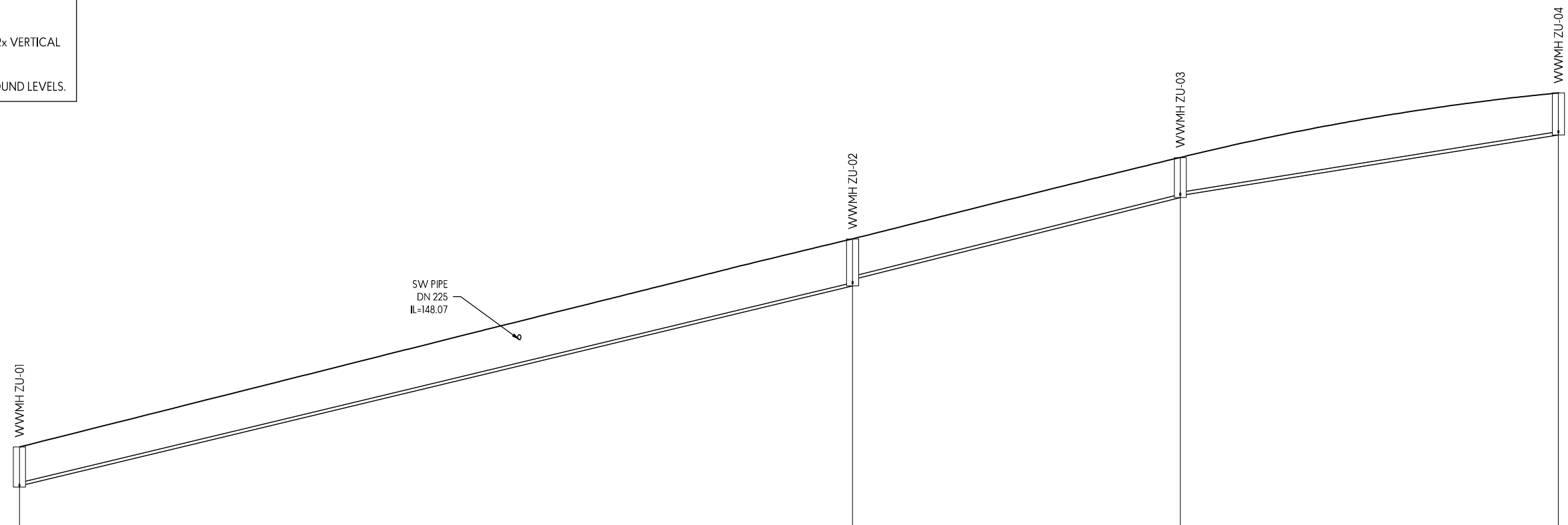
PROJECT:
 PUKERUA PROPERTY GROUP LP
 MT WELCOME - PUKERUA BAY
 PORIRUA

TITLE:
 PROPOSED DRAINAGE
 WASTEWATER LONG-SECTIONS
 SHEET 40 OF 42



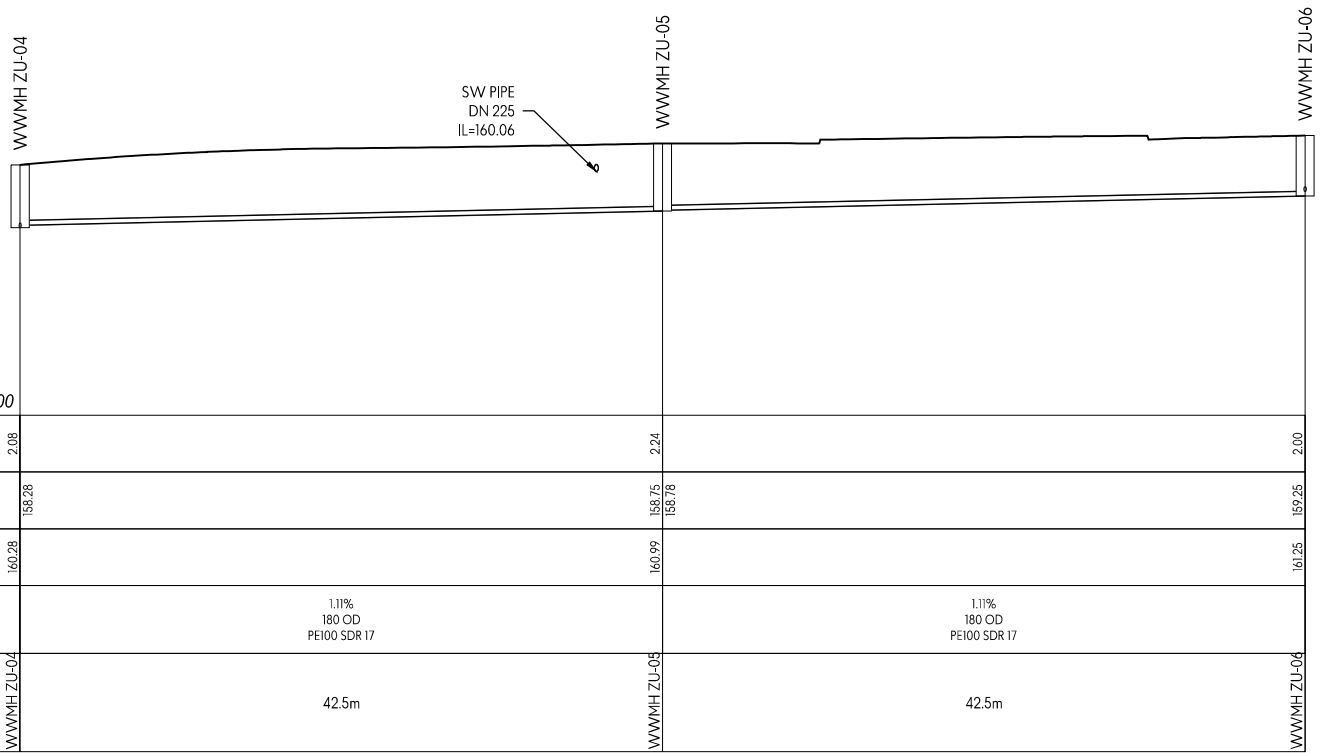
DESIGNED: PWJ DRAWN: LB
 CHECKED: KD PLOT DATE: 12-02-2026
 SCALE A1: 1:250 SCALE A3: 1:500
 STATUS: RESOURCE CONSENT
 PROJECT No: 1753-02 DRAWING No: 4439 REVISION: R2

- NOTES:
- LONG SECTIONS ARE SHOWN WITH A 2x VERTICAL EXAGGERATION.
 - INDICATES PROPOSED GROUND LEVELS.



	WWMH ZU-01	WWMH ZU-02	WWMH ZU-03	WWMH ZU-04
DEPTH TO INVERT	1.96	2.33	1.96	2.08
INVERT LEVEL	140.80	150.72 151.04	155.10 153.20	158.20
LID LEVEL	142.73	153.05	157.08	160.28
GRADIENT & PIPE SIZE		12.00% 180 OD PE100 SDR 17	12.50% 180 OD PE100 SDR 17	8.00% 180 OD PE100 SDR 17
PIPE LENGTH & MH No.	WWMH ZU-01	83.2m WWMH ZU-02	32.8m WWMH ZU-03	37.6m WWMH ZU-04

WW LINE ZU



	WWMH ZU-04	WWMH ZU-05	WWMH ZU-06
DEPTH TO INVERT	2.08	2.24	2.00
INVERT LEVEL	158.28	158.75 158.78	159.25
LID LEVEL	160.28	160.99	161.25
GRADIENT & PIPE SIZE		1.11% 180 OD PE100 SDR 17	1.11% 180 OD PE100 SDR 17
PIPE LENGTH & MH No.	WWMH ZU-04	42.5m WWMH ZU-05	42.5m WWMH ZU-06

WW LINE ZU

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REV	NOTES	BY	DATE
R1	RESOURCE CONSENT ISSUE	PWJ	13-11-2025
R2	MINOR AMENDMENTS	PWJ	12-02-2026

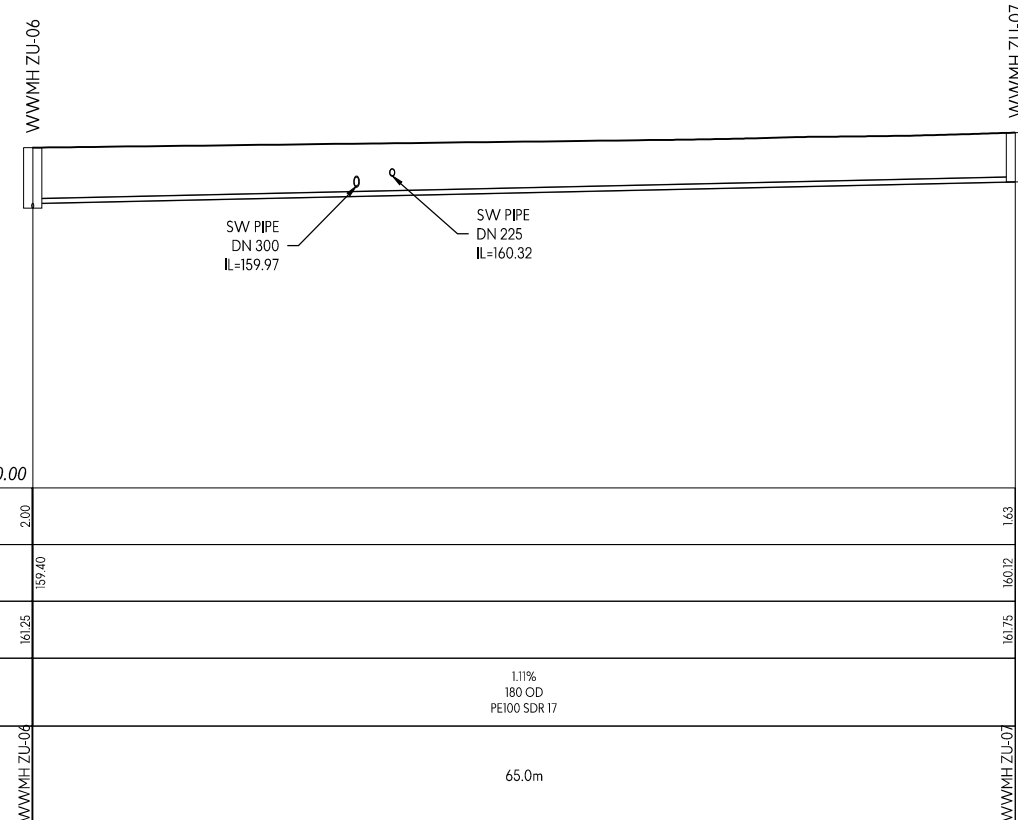
PROJECT:
**PUKERUA PROPERTY GROUP LP
 MT WELCOME - PUKERUA BAY
 PORIRUA**

TITLE:
**PROPOSED DRAINAGE
 WASTEWATER LONG-SECTIONS
 SHEET 41 OF 42**

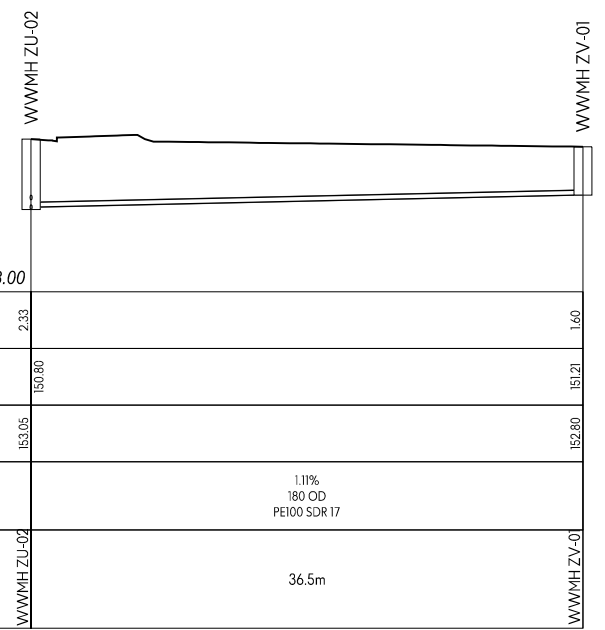


DESIGNED: PWJ DRAWN: LB
 CHECKED: KD PLOT DATE: 12-02-2026
 SCALE A1: 1:250 SCALE A3: 1:500
 STATUS: RESOURCE CONSENT
 PROJECT No: **1753-02** DRAWING No: **4440** REVISION: **R2**

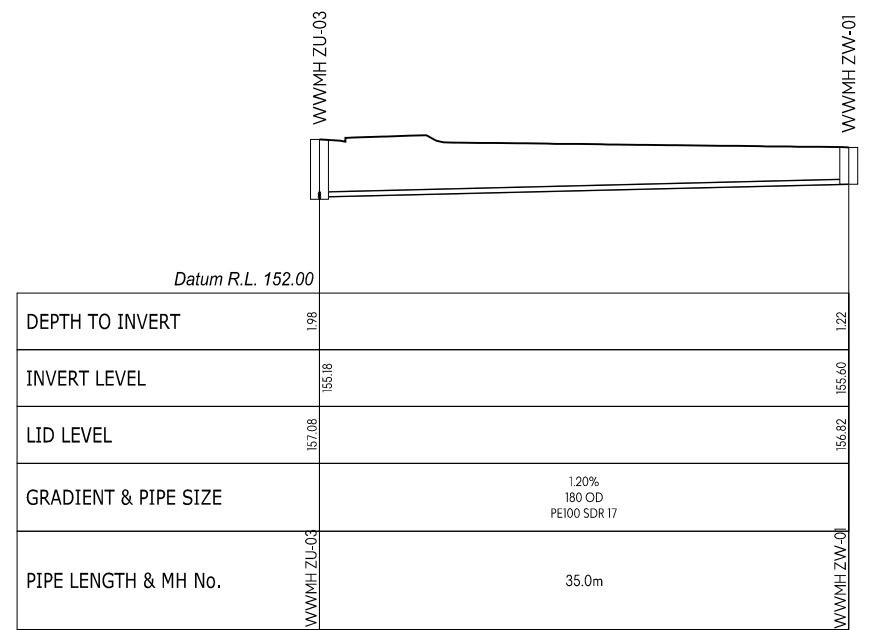
- NOTES:
- LONG SECTIONS ARE SHOWN WITH A 2x VERTICAL EXAGGERATION.
 - INDICATES PROPOSED GROUND LEVELS.



WW LINE ZU



WW LINE ZV



WW LINE ZW

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REVISIONS:			
REV	NOTES	BY	DATE
R1	RESOURCE CONSENT ISSUE	PWJ	13-11-2025
R2	MINOR AMENDMENTS	PWJ	12-02-2026

PROJECT:
 PUKERUA PROPERTY GROUP LP
 MT WELCOME - PUKERUA BAY
 PORIRUA

TITLE:
 PROPOSED DRAINAGE
 WASTEWATER LONG-SECTIONS
 SHEET 42 OF 42



DESIGNED: PWJ DRAWN: LB
 CHECKED: KD PLOT DATE: 12-02-2026
 SCALE A1: 1:250 SCALE A3: 1:500
 STATUS: RESOURCE CONSENT
 PROJECT No: 1753-02 DRAWING No: 4441 REVISION: R2