

NOTES

1. ALL WORKS TO BE IN ACCORDANCE WITH WAIKATO REGIONAL INFRASTRUCTURE TECHNICAL SPECIFICATIONS.
2. CO-ORDINATES IN TERMS OF NZ GEODETIC DATUM MT EDEN 2000. LEVELS IN TERMS OF THE NEW ZEALAND VERTICAL DATUM 2016. CONVERSION TO MOTURIKI 1953 CAN BE ACHIEVED BY ADDING 0.2594M.
3. IT IS THE CONTRACTORS RESPONSIBILITY TO LOCATE ALL SERVICES THAT MAY BE AFFECTED BY HIS OPERATIONS.
4. ALL CONCRETE SW PIPE TO BE INSTALLED IN ACCORDANCE WITH AS/NZS 3725:2007 FOR BURIED CONCRETE PIPES AND AS/NZ 4058:2007 FOR PRECAST CONCRETE PIPES (PRESSURE AND NON-PRESSURE) AS STIPULATED IN THE RITS 2018
5. APPROVED HARDFILL IS TO BE USED IN BACKFILLING OF ALL STORMWATER LINES WITHIN THE ROAD RESERVE.
6. HEAVY DUTY MANHOLE LIDS AND FRAMES TO BE USED IN TRAFFICKED AREAS.
7. ALL CESSPIT LEADS SHALL HAVE MIN COVER 0.9M.
8. ALL LINES ARE TO BE CLASS4 RCRRJ UNLESS SHOWN OTHERWISE.
9. ALL LINES TO BE ABANDONED SHALL BE SEALED AT EACH END. TIMING OF ALL SEALING TO BE COORDINATED WITH COUNCIL STAFF.

LEGEND

- EX BDY
- PROP BDY
- EX STORMWATER
- PR STORMWATER
- EX/PROP SWMH
- SINGLE SWCP 450x675
- DOUBLE SWCP 450x675
- PR LOT CONNECTION

Rev	Description	By	Date
A	RESOURCE CONSENT	MA	02/2026

	By	Date
Survey	MAVEN	
Design	SM	03/2026
Drawn	JPK	03/2026
Checked	DJM	

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19 Kaimiro Street, Pukete
Hamilton 3200
New Zealand

Project

HARLOW LIFESTYLE VILLAGE FOR HARLOW LIFESTYLE LTD

Title

PROPOSED STORMWATER OVERVIEW PLAN

Project no.	411001		
Scale	1:4000 @ A3		
Cad file	411001-C400-SW.DWG		
Drawing no.	C400-0	Rev	A

DATE: 10:10:05 FILE PATH: P:\MAVEN\HAMILTON\6. PROJECTS\411001 - HARLOW LIFESTYLE VILLAGE\7. DRAWING\411001-C400-SW.DWG

N

DCP LINE A1-6L-1
1350Ø
LL =68.569
L =67.715

SWMH LINE J1-16
1050Ø
LL =68.499
IL =66.436
IL =67.245

DCP LINE J1-15L-1
1350Ø
LL =65.821
IL =64.914

DCP LINE J1-17
1270Ø
LL =69.290
IL =68.379

SWMH LINE A1-7
LL =69.625
IL =67.061
IL =67.111

SWMH LINE J4-2
1100Ø
LL =65.911
IL =64.330
IL =64.430

DCP LINE A1-7L-1
1350Ø
LL =69.464
IL =68.687

SWMH LINE K1-9
1050Ø
LL =70.533
IL =68.767
IL =68.867

DCP LINE K1-6R-1
1350Ø
LL =69.742
IL =68.860

GMH LINE J4-3
1200Ø
LL =66.624
IL =65.013

SWMH LINE K1-6
1050Ø
LL =69.814
IL =66.944
IL =66.994

DCP LINE K1-8R-1
1270Ø
LL =70.225
IL =69.360

DCP LINE C1-1L-1
1350Ø
LL =74.083
IL =75007

SWMH LINE B1-1
LL =71.640
IL =68.635
IL =68.685

DCP LINE A1-8R-1
1350Ø
LL =72.421
IL =71.430

SWMH LINE A1-8
1050Ø
LL =71.869
IL =67.384
IL =67.434

DCP LINE A1-8L-1
1350Ø
LL =72.618
IL =71.543

DCP LINE K1-10L-1
1270Ø
LL =70.710
IL =69.829

SWMH LINE A1-9
1800Ø
LL =73.956
IL =67.917
IL =67.967

CP LINE A1-10L-1
675Ø
LL =73.470
IL =72.597

DCP LINE K1-10R-1
1270Ø
LL =70.716
IL =69.832

SWMH LINE K1-10
1050Ø
LL =70.774
IL =69.110
IL =69.210

SWMH LINE K1-11
1050Ø
LL =72.216
IL =70.527

SWMH LINE K1-8
1050Ø
LL =70.295
IL =68.074
IL =68.124

CP LINE K1-8L-1
675Ø
LL =70.421
IL =69.504

LOT 2
DP 405

SWMH LINE K1-7
1050Ø
LL =70.547
IL =67.827
IL =67.877

CP LINE K1-7R-1
675Ø
LL =70.448
IL =69.553

CP LINE A1-11R-1
675Ø
LL =72.271
IL =71.402

CP LINE A1-11L-1
675Ø
LL =72.269
IL =71.392

SWMH LINE K3-1
1050Ø
LL =70.772
IL =69.827

DCP LINE
A1-13L-1 1350Ø
LL =70.824
IL =69.924

DCP LINE A1-12L-1
1270Ø
LL =70.573
IL =69.685

SWMH LINE A1-13
1200Ø
LL =70.815
IL =69.237
IL =69.287

DCP LINE A1-12R-1
1270Ø
LL =70.576
IL =69.692

SWMH LINE A1-12
1350Ø
LL =70.664
IL =69.090
IL =69.100

CP LINE A1-14R-1
675Ø
LL =71.027
IL =70.146

CP LINE A1-14L-1
675Ø
LL =71.027
IL =70.146

SWMH LINE A1-14
1050Ø
LL =71.097
IL =69.580
IL =69.680

LO
528

LOT 2 DPS
15838

LOT 3 DPS
15838

LOT 4 DPS
15838

LOT 9
DPS 15838

LOT 2 DP
528246

LOT 11
DPS 15838

LOT 1
DPS 860

SWMH LINE A1-10
1500Ø
LL =73.551
IL =68.289
IL =68.339

CP LINE A1-10R-1
675Ø
LL =73.465
IL =72.592

DCP LINE F1-1R-1
1350Ø
LL =74.144
IL =73.232

SWMH LINE F1-1
1050Ø
LL =74.341
IL =71.732
IL =71.752

DCP LINE G1-1L-1
1270Ø
LL =72.449
IL =71.568

SWMH LINE G1-1
1050Ø
LL =72.520
IL =70.157
IL =70.357

DCP LINE G1-1R-1
1350Ø
LL =72.449
IL =71.568

SWMH LINE A1-11
1500Ø
LL =72.665
IL =68.613
IL =68.663

CP LINE G1-2R-1
675Ø
LL =75.980
IL =75.099

CP LINE G1-2L-1
675Ø
LL =75.980
IL =75.099

SWMH LINE G1-2
1050Ø
LL =76.050
IL =74.486
IL =74.586

GMH LINE G1-3
1200Ø
LL =77.168
IL =75.485

SWMH LINE F1-2
1050Ø
LL =80.041
IL =77.090

DCP LINE F2-1L-1
1350Ø
LL =80.003
IL =79.085

FOREBAY

SWMH LINE A1-15
1050Ø
LL =75.115
IL =73.296
IL =73.396

CP LINE A1-16R-1
675Ø
LL =76.598
IL =75.717

SWMH LINE A1-16
1050Ø
LL =76.668
L =74.755

CP LINE A1-16L-1
675Ø
LL =76.598
IL =75.717

DCP LINE H1-1L-1
1270Ø
LL =74.988
IL =74.103

DCP LINE H1-1R-1
1270Ø
LL =74.988
IL =74.097

SWMH LINE H1-1
1050Ø
LL =75.008
IL =73.473
IL =73.473

SWMH LINE H1-2
1050Ø
LL =75.350
IL =73.683

NOTES

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LEGEND

- EX BDY
- PROP BDY
- EX STORMWATER
- PR STORMWATER
- EX/PROP SWMH
- SINGLE SWCP 450x675
- DOUBLE SWCP 450x675

Rev	Description	By	Date
A	RESOURCE CONSENT	MA	02/2026

	By	Date
Survey	MAVEN	
Design	SM	03/2026
Drawn	JPK	03/2026
Checked	DJM	

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New Zealand

Project
HARLOW LIFESTYLE VILLAGE FOR HARLOW LIFESTYLE LTD

Title
PROPOSED STORMWATER PLAN 1 OF 5

Project no.	411001		
Scale	1:1000 @ A3		
Cad file	411001-C400-SW.DWG		
Drawing no.	C400-1	Rev	A

RESOURCE CONSENT

DATE: 10/12/26 FILE PATH: P:\MAVEN HAMILTON\6 PROJECTS\411001 - HARLOW LIFESTYLE VILLAGE\7 DRAWINGS\411001-C400-SW.DWG

N

DCP LINE B1-5L-1
1350Ø
LL =71.080
IL =70.196

SW IN LINE B5-1
LL =70.430
IL =70.205

SW IN LINE D4-1
1050Ø
LL =77.999
IL =77.774

SWMH LINE D2-3
1050Ø
LL =78.812
IL =77.388
IL =77.488

DCP LINE C1-5L-1
1270Ø
LL =75.104
IL =74.211

CP LINE D2-4
675Ø
LL =78.658
IL =77.830

SW IN LINE D5-1
LL =78.000
IL =77.775

SWMH LINE B1-5
LL =71.162
IL =69.875

GMH LINE D2-2
1200Ø
LL =78.877
IL =76.950
IL =77.050

CP LINE D1-5L-1
675Ø
LL =78.860
IL =77.711

LOT 2
DP 500000

DCP LINE A3-2
1350Ø
LL =67.596
IL =66.725

SWMH LINE C1-5
1050Ø
LL =75.203
IL =73.672

SWMH LINE D1-5
1050Ø
LL =78.775
IL =77.341

SWMH LINE A3-1
LL =67.987
IL =66.629
IL =66.659

SWMH LINE C1-4
1050Ø
LL =75.555
IL =73.220
IL =73.320

SWMH LINE D2-1
1050Ø
LL =78.460
IL =76.690
IL =76.790

SWMH LINE A1-4
1050Ø
LL =68.153
IL =66.237
IL =66.237

SW IN LINE D6-1
LL =77.302
IL =77.077

LOT 1
DP 30644

SWMH LINE B1-4
LL =71.608
IL =69.595
IL =69.645

SWMH LINE A1-2
1050Ø
LL =66.314
IL =64.095
IL =64.145

SW IN LINE B4-1
LL =70.944
IL =70.719

SWMH LINE D1-1
1050Ø
LL =76.113
IL =73.732
IL =73.932

DCP LINE D1-4L-1
1350Ø
LL =78.408
IL =77.533

DCP LINE D1-1R-1
1350Ø
LL =76.046
IL =75.165

LINE A1-1
1200Ø WINGWALL
LL =65.500
IL =64.052
IL =64.052

CP LINE B1-4L-1
675Ø
LL =71.472
IL =70.598

SWMH LINE C1-3
1050Ø
LL =75.814
IL =72.861

LOT 1
DP 86190

SWMH LINE D1-4
1050Ø
LL =78.631
IL =76.766
IL =76.866

SWMH LINE D1-3
1050Ø
LL =77.920
IL =76.265
IL =76.365

SW IN LINE C3-1
LL =74.304
IL =74.079

SW IN LINE D3-1
LL =76.326
IL =76.101

RIP-RAP

SWMH LINE B1-3
1050Ø
LL =71.467
IL =69.065
IL =69.115

525mm RCRRJ @ 3.37%

SCRUFFY DOME A1
LL=65.77
IL=64.60 (out)

LOT 1
DP 25657

SWMH LINE C1-2
1050Ø
LL =75.634
IL =72.143
IL =72.243

CP LINE B1-3L-1
675Ø
LL =71.353
IL =70.478

CP LINE E1-1L-1
675Ø
LL =75.643
IL =74.510

SWMH LINE D1-2
1050Ø
LL =76.880
IL =74.763
IL =74.863

SWMH LINE E1-2
1050Ø
LL =79.307
IL =77.849
IL =77.849

DCP LINE D1-3R-1
1350Ø
LL =77.845
IL =76.967

SW IN LINE B3-1
LL =70.908
IL =70.683

SWMH LINE A1-3
1050Ø
LL =66.112
IL =64.496
IL =64.596

SWMH LINE B1-2
1050Ø
LL =71.065
IL =68.852
IL =68.902

CP LINE C1-2L-1
675Ø
LL =75.564
IL =74.691

SWMH LINE A1-5
1050Ø
LL =68.107
IL =66.411
IL =66.441

SWMH LINE E1-1
1050Ø
LL =75.518
IL =73.293
IL =73.636

DCP LINE E1-1R-1
1270Ø
LL =75.448
IL =74.566

GMH LINE E1-3
1200Ø
LL =80.095
IL =78.378

DCP LINE A1-5L-1
LL =68.059
IL =67.178
WETLAND A1

SW IN LINE B2-1
LL =70.609
IL =70.384

SWMH LINE C1-1
1050Ø
LL =74.156
IL =71.260
IL =71.360

CP LINE E1-2R-1
675Ø
LL =79.239
IL =78.357

SWMH LINE A1-6
LL =68.692
IL =66.716
IL =66.791

DCP LINE B1-2L-1
1350Ø
LL =70.919
IL =70.050

SW IN LINE C2-1
LL =73.674
IL =73.449

DCP LINE C1-1R-1
1270Ø
LL =74.088
IL =73.218

DCP LINE F2-1R-1
1350Ø
LL =80.173
IL =79.257

DCP LINE B1-1L-1
1350Ø
LL =71.409
IL =70.535

DCP LINE F1-1L-1
1350Ø
LL =74.178
IL =73.266

DCP LINE A1-6L-1
1350Ø
LL =68.569
IL =67.715

DCP LINE C1-1L-1
1350Ø
LL =74.083
IL =73.007

SWMH LINE F1-2
1050Ø
LL =80.041
IL =77.090

SWMH LINE J1-16
1050Ø
LL =68.499
IL =66.436
IL =67.245

SWMH LINE B1-1
LL =71.640
IL =68.635
IL =68.685

DCP LINE A1-8R-1
1350Ø
LL =72.421
IL =71.430

SWMH LINE F1-1
1050Ø
LL =74.341
IL =71.732
IL =71.752

SWMH LINE A1-10
1500Ø
LL =73.551
IL =68.289
IL =68.339

DCP LINE F1-1R-1
1350Ø
LL =74.144
IL =73.232

CP LINE G1-2L-1
675Ø
LL =75.980
IL =75.099

DCP LINE F2-1L-1
1350Ø
LL =80.003
IL =79.085

SWMH LINE A1-8
1050Ø
LL =71.869

DCP LINE A1-8L-1
1350Ø
LL =72.618

FOREBAY

LINE J1-17
Ø
LL =65.821
LL =69.290

RESOURCE CONSENT

DATE: 6/10/25 FILE PATH: P:\MAVEN WAIKATO\PROJECTS\411001 - HARLOW LIFESTYLE VILLAGE\7 DRAWINGS\01 CAD\C400-SW.DWG

NOTES
1. ALL WORKS TO BE IN ACCORDANCE WITH WAIKATO REGIONAL INFRASTRUCTURE TECHNICAL SPECIFICATIONS.
2. CO-ORDINATES IN TERMS OF NZ GEODETIC DATUM MT EDEN 2000. LEVELS IN TERMS OF THE NEW ZEALAND VERTICAL DATUM 2016. CONVERSION TO MOTURIKI 1953 CAN BE ACHIEVED BY ADDING 0.2594M.
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5. APPROVED HARDFILL IS TO BE USED IN BACKFILLING OF ALL STORMWATER LINES WITHIN THE ROAD RESERVE.
6. HEAVY DUTY MANHOLE LIDS AND FRAMES TO BE USED IN TRAFFICKED AREAS.
7. ALL SINGLE CESSPIT LEADS SHALL BE Ø225mm, AND DOUBLE Ø300mm AT MINIMUM 1.0% GRADE
8. ALL LINES TO BE ABANDONED SHALL BE SEALED AT EACH END. TIMING OF ALL SEALING TO BE COORDINATED WITH COUNCIL STAFF.
9. MANHOLE SIZES ARE SHOWN ON LONGSECTIONS

LEGEND
- EX BDY
- PROP BDY
- EX STORMWATER
- PR STORMWATER
- EX/PROP SWMH
- SINGLE SWCP 450x675
- DOUBLE SWCP 450x675

Rev	Description	By	Date
A	RESOURCE CONSENT	MA	02/2026

	By	Date
Survey	MAVEN	
Design	SM	03/2026
Drawn	JPK	03/2026
Checked	DJM	

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New Zealand

Project
HARLOW LIFESTYLE VILLAGE FOR HARLOW LIFESTYLE LTD

Title
PROPOSED STORMWATER PLAN 2 OF 5

Project no.	411001		
Scale	1:1000 @ A3		
Cad file	411001-C400-SW.DWG		
Drawing no.	C400-2	Rev	A

CULVERT 2 & 3
TO BE 1500mmØ BURIED 25% BENEATH STREAM INVERT LEVEL AS PER FISH PASSAGE REQUIREMENT

CULVERT 4
1200mmØ SINGLE SIZED WITH FISH ROPE

NOTES
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LEGEND
- EX BDY
- PROP BDY
- EX STORMWATER
- PR STORMWATER
- EX/PROP SWMH
- SINGLE SWCP 450x675
- DOUBLE SWCP 450x675

Rev	Description	By	Date
A	RESOURCE CONSENT	MA	02/2026

	By	Date
Survey	MAVEN	
Design	SM	03/2026
Drawn	JPK	03/2026
Checked	DJM	

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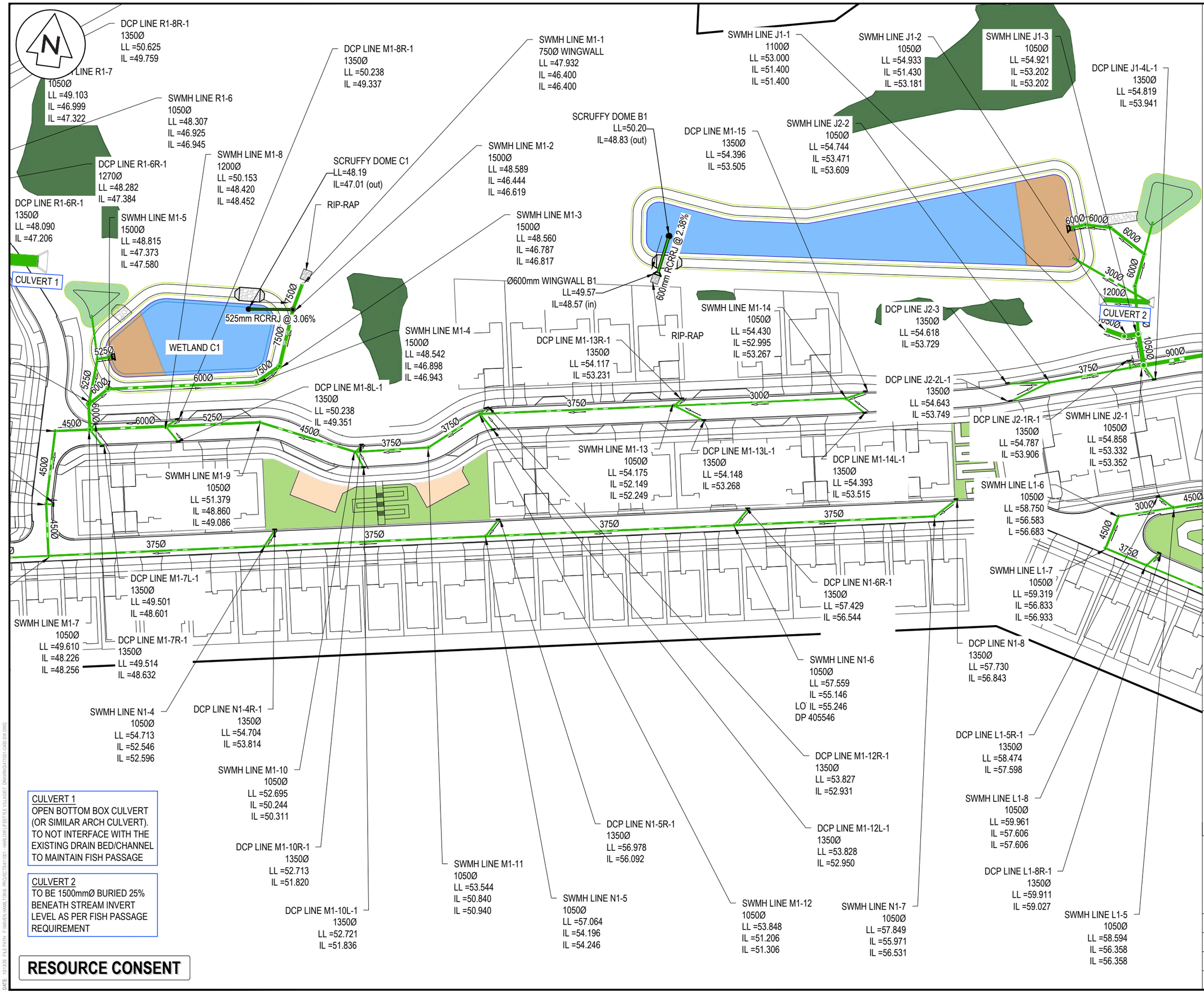
Project
HARLOW LIFESTYLE VILLAGE FOR HARLOW LIFESTYLE LTD

Title
PROPOSED STORMWATER PLAN 3 OF 5

Project no.	411001
Scale	1:1000 @ A3
Cad file	411001-C400-SW.DWG
Drawing no.	C400-3 Rev A

RESOURCE CONSENT

DATE 03/2026 F:\E PATH\ F:\MAVEN HAMILTON\6 PROJECTS\411001 - HARLOW LIFESTYLE VILLAGE\7 2D\WIN\C4 411001-C400-SW.DWG



CULVERT 1
OPEN BOTTOM BOX CULVERT (OR SIMILAR ARCH CULVERT). TO NOT INTERFACE WITH THE EXISTING DRAIN BED/CHANNEL TO MAINTAIN FISH PASSAGE

CULVERT 2
TO BE 1500mmØ BURIED 25% BENEATH STREAM INVERT LEVEL AS PER FISH PASSAGE REQUIREMENT

RESOURCE CONSENT

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9. MANHOLE SIZES ARE SHOWN ON LONGSECTIONS

LEGEND
- EX BDY
- PROP BDY
- EX STORMWATER
- PR STORMWATER
- EX/PROP SWMH
- SINGLE SWCP 450x675
- DOUBLE SWCP 450x675

Rev	Description	By	Date
A	RESOURCE CONSENT	MA	02/2026

	By	Date
Survey	MAVEN	
Design	SM	03/2026
Drawn	JPK	03/2026
Checked	DJM	

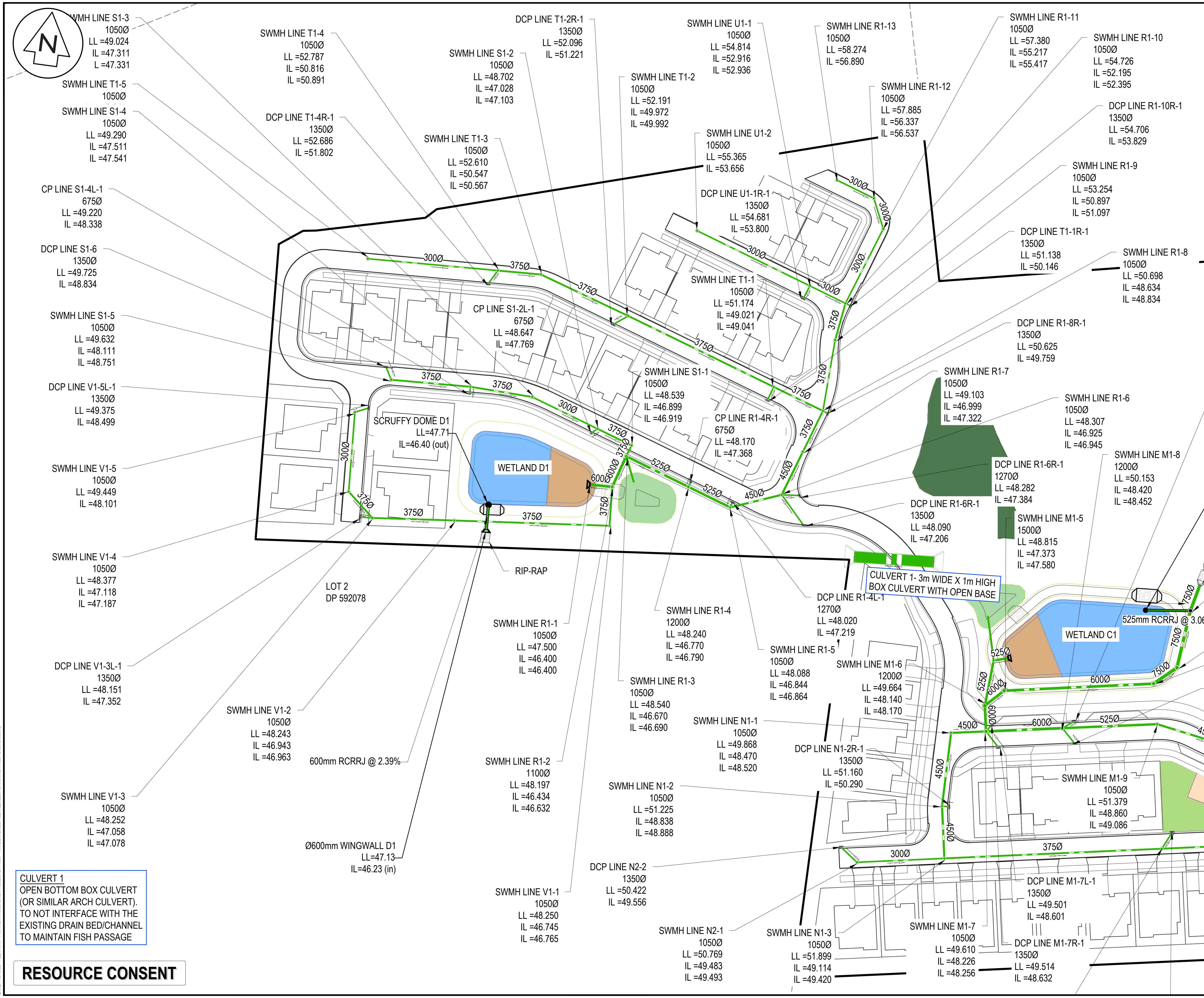
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07 242 0601
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www.maven.co.nz
19 Kaimiro Street, Pukete
Hamilton 3200
New Zealand

Project
HARLOW LIFESTYLE VILLAGE FOR HARLOW LIFESTYLE LTD

Title
PROPOSED STORMWATER PLAN 4 OF 5

Project no.	411001
Scale	1:1000 @ A3
Cad file	411001-C400-SW.DWG
Drawing no.	C400-4 Rev A

DATE 01/26 FILEPATH: P:\MAVEN HAMILTON\6 PROJECTS\411001 - HARLOW LIFESTYLE VILLAGE\7 DRAWING\411001-C400-SW.DWG



NOTES
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9. MANHOLE SIZES ARE SHOWN ON LONGSECTIONS

LEGEND
- EX BDY
- PROP BDY
- EX STORMWATER
- PR STORMWATER
- EX/PROP SWMH
- SINGLE SWCP 450x675
- DOUBLE SWCP 450x675

Rev	Description	By	Date
A	RESOURCE CONSENT	MA	02/2026

	By	Date
Survey	MAVEN	
Design	SM	03/2026
Drawn	JPK	03/2026
Checked	DJM	

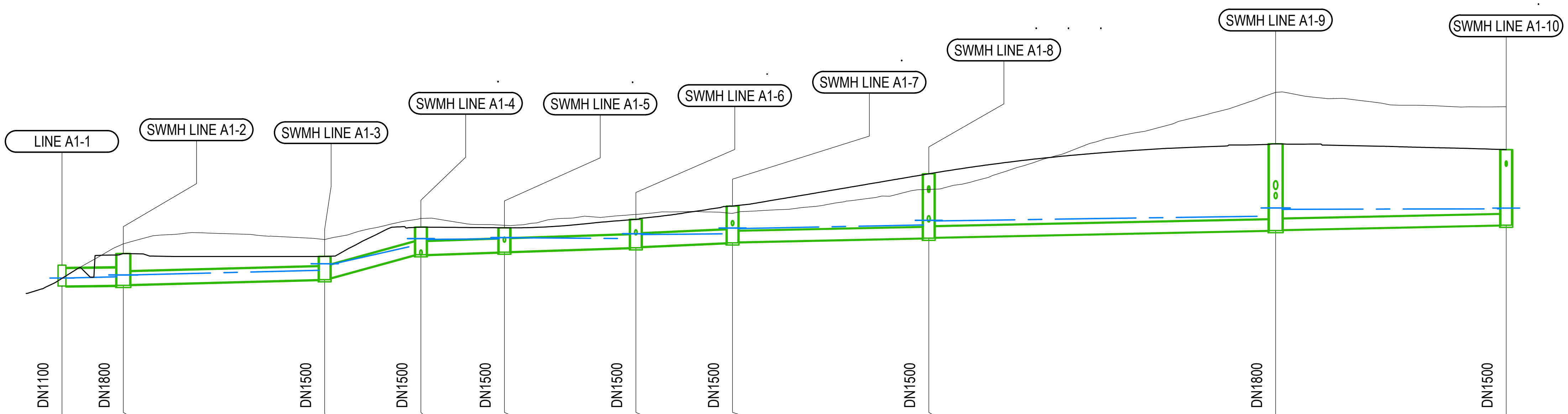
Maven Waikato
07 242 0601
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19 Kaimiro Street, Pukete
Hamilton 3200
New Zealand

Project
HARLOW LIFESTYLE VILLAGE FOR HARLOW LIFESTYLE LTD

Title
PROPOSED STORMWATER PLAN 5 OF 5

Project no.	411001
Scale	1:1000 @ A3
Cad file	411001-C400-SW.DWG
Drawing no.	C400-5
Rev	A

DATE: 10/13/26 FILE PATH: F:\MAVEN HAMILTON\6. PROJECTS\411001 - HARLOW LIFESTYLE VILLAGE\7. DRAWING\411001-C400-SW.DWG



10YR ARI Q (l/s)	1207.1l/s	1211.8l/s	1214.0l/s	1180.9l/s	1128.6l/s	1123.6l/s	1106.4l/s	977.4l/s	374.3l/s
PIPE VELOCITY (m/s)	2.36m/s	3.33m/s	7.67m/s	3.54m/s	3.50m/s	3.89m/s	2.90m/s	2.85m/s	2.27m/s
MIN COVER	-0.70m	0.64m	0.47m	0.72m	0.66m	1.00m	1.74m	3.68m	4.46m
PIPE DETAILS	CH=4.45m 1200mm RCRRJ Class 4	CH=35.85m 900mm RCRRJ Class 4	CH=38.07m 900mm RCRRJ Class 4	CH=60.90m 900mm RCRRJ Class 4	CH=65.36m 900mm RCRRJ Class 4	CH=80.71m 900mm RCRRJ Class 4	CH=94.19m 750mm RCRRJ Class 4	CH=121.52m 750mm RCRRJ Class 4	CH=200.49m 750mm RCRRJ Class 4
	0.50%	1.25%	12.23%	1.50%	1.50%	2.00%	1.00%	1.00%	1.00%

DATUM RL = 44.0

HGL LEVELS	64.60		64.69	64.82 64.82	65.15	65.60 65.55	66.89	67.35 67.30	67.34	67.42 67.41	67.36	67.69 67.64	67.69	68.09 68.05	68.30	68.63 68.58	68.92	69.49 69.40	69.43	69.48
EXISTING LEVELS		64.58		66.99		67.29		68.76		68.28		69.04		69.11		70.78		77.55		76.54
DESIGN LEVELS		65.50		66.31		66.11		68.15		68.11		68.69		69.62		71.87		73.96		73.55
PIPE INVERT	64.05	64.05	64.10	64.15	64.50	64.60	66.24	66.23 66.24	66.41	66.44	66.72	66.79	67.06	67.11	67.38	67.43	67.92	67.97	68.29	
MH DEPTH INVERT (m)	1.45	1.45	2.22	2.17	1.62	1.52	1.92	1.92 1.92	1.70	1.67	1.98	1.90	2.56	2.51	4.48	4.43	6.04	5.99	5.26	
CHAINAGE		0.00		8.55		36.60		50.01		61.65		79.96		93.44		120.77		169.11		201.24

SW LINE LINE A1

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LEGEND
EX GROUND LEVEL
PR GROUND LEVEL
HYDRAULIC GRADE LINE

Rev	Description	By	Date
A	RESOURCE CONSENT	MA	02/2026

	By	Date
Survey	MAVEN	
Design	SM	03/2026
Drawn	JPK	03/2026
Checked	DJM	

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Project
HARLOW LIFESTYLE VILLAGE FOR HARLOW LIFESTYLE LTD

Title
PROPOSED STORMWATER LONGSECTION 1 OF 34

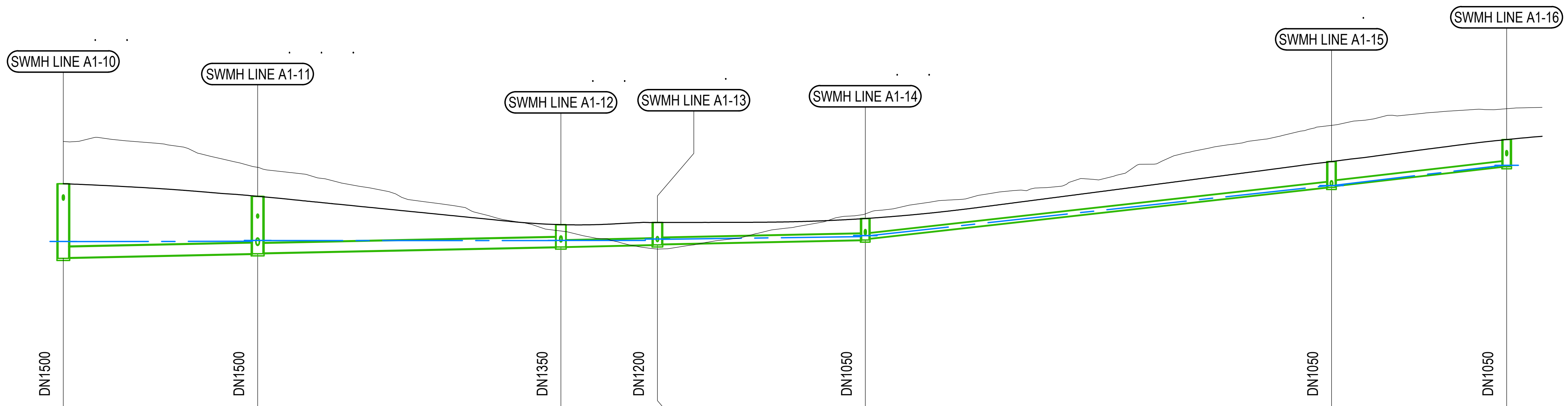
Project no.	411001
Scale	1:1000 @ A3
Cad file	411001-C400-SW.DWG
Drawing no.	C420-1 — Rev A

RESOURCE CONSENT

DATE: 10/13/26 FILE PATH: F:\MAVEN HAMILTON\6. PROJECTS\411001 - HARLOW LIFESTYLE VILLAGE\7. DRAWING\411001-C400-SW.DWG

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LEGEND

- EX GROUND LEVEL
- PR GROUND LEVEL
- HYDRAULIC GRADE LINE

	A1-10 to A1-11	A1-11 to A1-12	A1-12 to A1-13	A1-13 to A1-14	A1-14 to A1-15	A1-15 to A1-16
10YR ARI Q (l/s)	314.3l/s	174.3l/s	142.8l/s	119.0l/s	28.9l/s	18.0l/s
PIPE VELOCITY (m/s)	2.16m/s	1.85m/s	1.79m/s	1.71m/s	2.14m/s	1.86m/s
MIN COVER	3.27m	0.85m	1.02m	0.89m	0.90m	1.34m
PIPE DETAILS	CH=227.89m 750mm RCRRJ Class 4	CH=270.74m 675mm RCRRJ Class 4	CH=275.87m 450mm RCRRJ Class 4	CH=303.47m 450mm RCRRJ Class 4	CH=325.67m 375mm RCRRJ Class 4	CH=380.63m 375mm RCRRJ Class 4
	1.00%	1.00%	1.00%	1.00%	5.50%	5.50%

DATUM RL = 47.0

	A1-10	A1-11	A1-12	A1-13	A1-14	A1-15	A1-16
HGL LEVELS	69.43 / 69.48 69.47	69.49 / 69.55 69.54	69.54 / 69.55	69.55 / 69.65 69.63	69.82 / 69.89 69.89	73.42 / 73.42 73.45	74.85
EXISTING LEVELS	76.54	74.71	70.22	68.94	71.43	77.67	78.84
DESIGN LEVELS	73.55	72.66	70.66	70.82	71.10	75.11	76.67
PIPE INVERT	68.29 / 68.34	68.61 / 68.66	69.09 / 69.10	69.24 / 69.29	69.58 / 69.68	73.30 / 73.40	74.76
MH DEPTH INVERT (m)	5.26 / 5.21	4.05 / 4.00	1.57 / 1.56	1.58 / 1.53	1.52 / 1.42	1.82 / 1.72	1.91
CHAINAGE	201.24	228.64	271.42	285.03	314.36	380.11	404.81

SW LINE LINE A1

RESOURCE CONSENT

DATE: 10/13/26 FILE PATH: F:\MAVEN HAMILTON\6. PROJECTS\411001 - HARLOW LIFESTYLE VILLAGE\7. DRAWING\411001-C400-SW.DWG

Rev	Description	By	Date
A	RESOURCE CONSENT	MA	02/2026

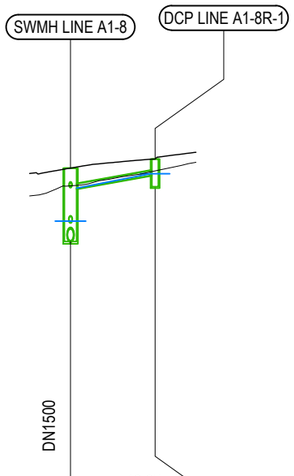
	By	Date
Survey	MAVEN	
Design	SM	03/2026
Drawn	JPK	03/2026
Checked	DJM	

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Project
HARLOW LIFESTYLE VILLAGE FOR HARLOW LIFESTYLE LTD

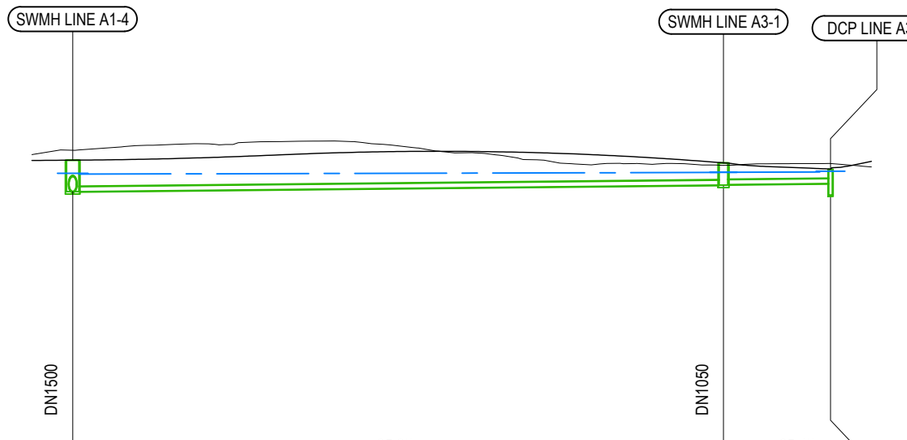
Title
PROPOSED STORMWATER LONGSECTION 2 OF 34

Project no.	411001
Scale	1:1000 @ A3
Cad file	411001-C400-SW.DWG
Drawing no.	C420-2
Rev	A



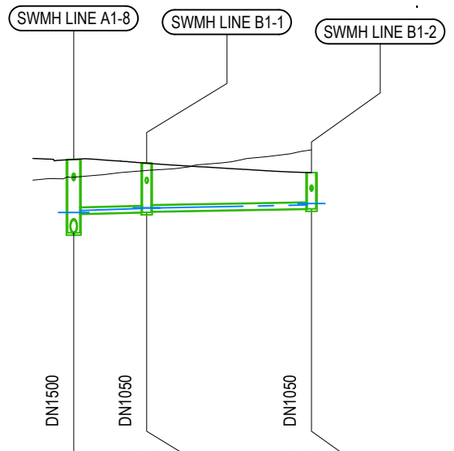
10YR ARI Q (l/s)		12.6l/s		
PIPE VELOCITY (m/s)		1.97m/s		
MIN COVER		0.66m		
PIPE DETAILS		CH=9.95m 300mm CP LEAD		
		8.00%		
DATUM RL =		43.0		
HGL LEVELS	68.30	68.63 70.65	71.51	71.53
EXISTING LEVELS		70.78		71.70
DESIGN LEVELS		71.87		72.42
PIPE INVERT	67.38	70.60	71.43	70.73
MH DEPTH INVERT (m)	4.48	1.27	0.99	1.69
CHAINAGE		0.00		10.35

SW LINE LINE A1-8R



		35.3l/s		35.4l/s
		0.98m/s		0.98m/s
		1.04m		0.56m
		CH=59.00m 300mm RCRRJ Class 4		CH=72.40m 300mm CP LEAD
		0.50%		0.50%
		41.0		
HGL LEVELS	66.89	67.35 67.30	67.40	67.41 67.43 67.48
EXISTING LEVELS		68.76		67.83 67.94
DESIGN LEVELS		68.15		67.99 67.60
PIPE INVERT	66.24	66.23 66.23	66.63	66.66 66.72 66.02
MH DEPTH INVERT (m)	1.92	1.92 1.92	1.36	1.33 0.87 1.57
CHAINAGE		-20.08		59.53 72.62

SW LINE LINE A3



		106.7l/s		101.5l/s
		1.70m/s		1.53m/s
		2.61m		1.81m
		CH=8.41m 375mm RCRRJ Class 4		CH=28.56m 375mm RCRRJ Class 4
		1.05%		0.83%
		44.0		
HGL LEVELS	68.30	68.63 68.75	68.87	68.90 69.09 69.17
EXISTING LEVELS		70.78		71.20 72.45
DESIGN LEVELS		71.87		71.64 71.06
PIPE INVERT	67.38	68.54	68.64	68.69 68.85
MH DEPTH INVERT (m)	4.48	3.33	3.00	2.95 2.21
CHAINAGE		0.00		8.93 29.09

SW LINE LINE B1

RESOURCE CONSENT

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LEGEND

- EX GROUND LEVEL
- PR GROUND LEVEL
- HYDRAULIC GRADE LINE

Rev	Description	By	Date
A	RESOURCE CONSENT	MA	02/2026

	By	Date
Survey	MAVEN	
Design	SM	03/2026
Drawn	JPK	03/2026
Checked	DJM	

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Project

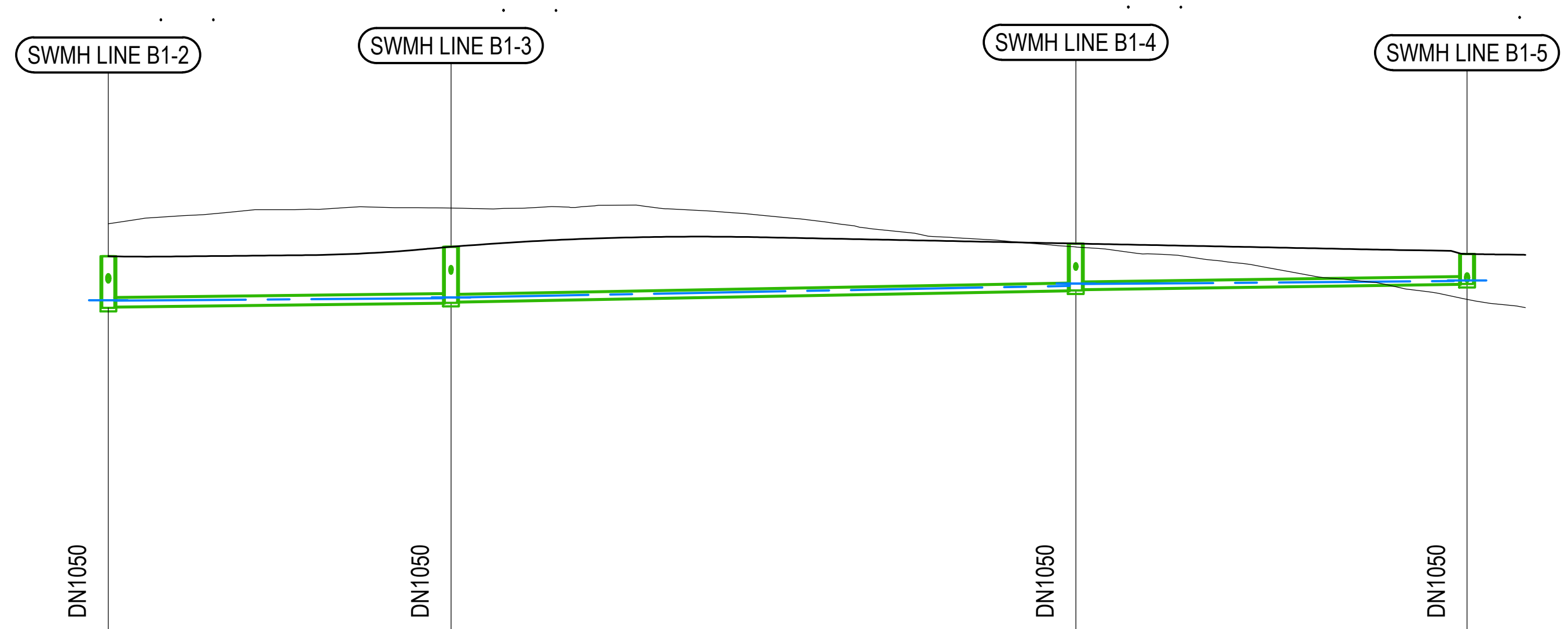
HARLOW LIFESTYLE VILLAGE FOR HARLOW LIFESTYLE LTD

Title

PROPOSED STORMWATER LONGSECTION 3 OF 34

Project no.	411001
Scale	1:1000 @ A3
Cad file	411001-C400-SW.DWG
Drawing no.	C420-3 Rev A

DATE 01/26 FILEPATH P:\MAVEN HAMILTON\6 PROJECTS\411001 - HARLOW LIFESTYLE VILLAGE\7 DRAWING\411001-C400-SW.DWG



	B1-2 to B1-3	B1-3 to B1-4	B1-4 to B1-5
10YR ARI Q (l/s)	74.0l/s	63.9l/s	28.8l/s
PIPE VELOCITY (m/s)	1.22m/s	1.40m/s	1.04m/s
MIN COVER	1.70m	1.68m	0.96m
PIPE DETAILS	CH=45.98m 375mm RCRRJ Class 4 0.55%	CH=111.46m 300mm RCRRJ Class 4 0.90%	CH=144.98m 300mm RCRRJ Class 4 0.69%

DATUM RL = 44.0

		SWMH LINE B1-2			SWMH LINE B1-3			SWMH LINE B1-4			SWMH LINE B1-5
HGL LEVELS	69.09	69.17 69.16		69.27	69.29		69.79	69.89 69.87		70.00	70.02
EXISTING LEVELS		72.45			73.13			71.46			69.22
DESIGN LEVELS		71.06			71.47			71.61			71.16
PIPE INVERT	68.85	68.90		69.06	69.11		69.60	69.65		69.88	
MH DEPTH INVERT (m)	2.21	2.16		2.40	2.35		2.01	1.96		1.29	
CHAINAGE		29.09			58.45			111.98			145.51

SW LINE LINE B1

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LEGEND
EX GROUND LEVEL
PR GROUND LEVEL
HYDRAULIC GRADE LINE

Rev	Description	By	Date
A	RESOURCE CONSENT	MA	02/2026

	By	Date
Survey	MAVEN	
Design	SM	03/2026
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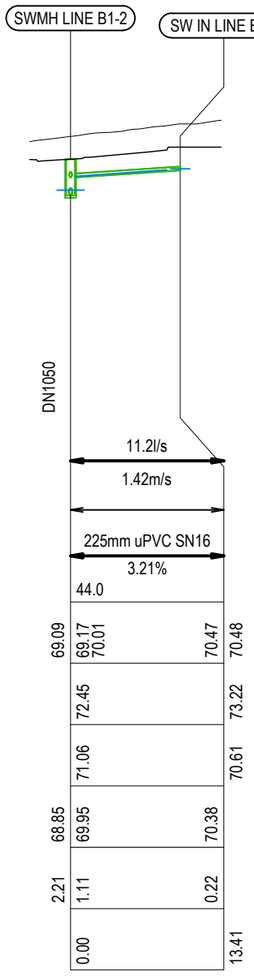
Project
HARLOW LIFESTYLE VILLAGE FOR HARLOW LIFESTYLE LTD

Title
PROPOSED STORMWATER LONGSECTION 4 OF 34

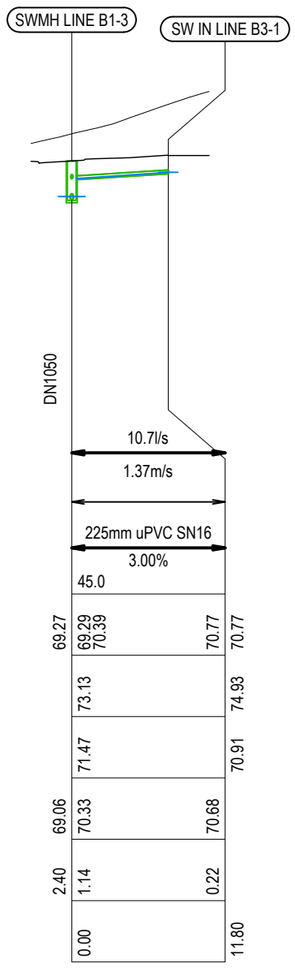
Project no.	411001
Scale	1:1000 @ A3
Cad file	411001-C400-SW.DWG
Drawing no.	C420-4
Rev	A

RESOURCE CONSENT

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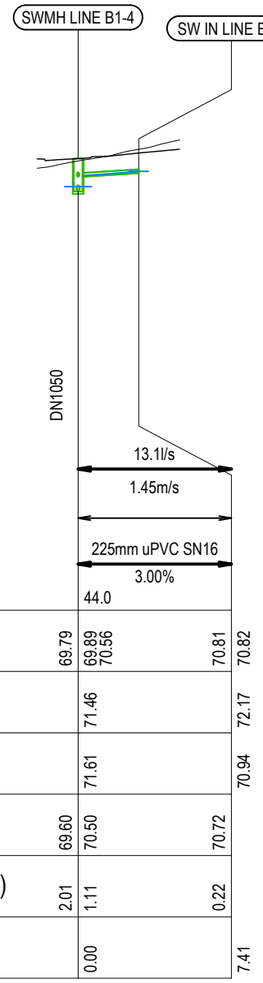


SW LINE LINE B2

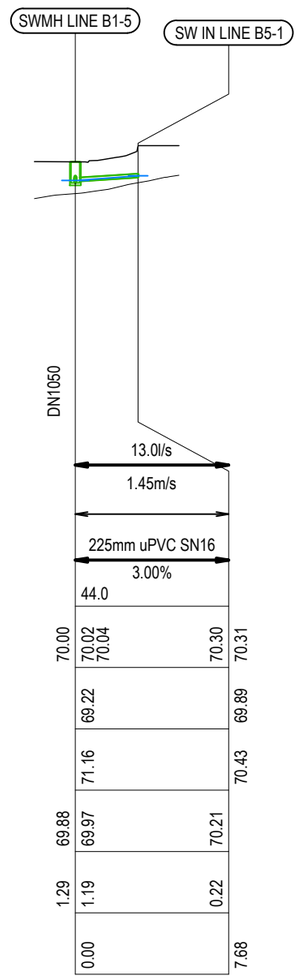


SW LINE LINE B3

10YR ARI Q (l/s)
PIPE VELOCITY (m/s)
MIN COVER
PIPE DETAILS



SW LINE LINE B4



SW LINE LINE B5

DATUM RL =

HGL LEVELS	69.79	69.89 70.56	70.81	70.82
EXISTING LEVELS		71.46		72.17
DESIGN LEVELS		71.61		70.94
PIPE INVERT	69.60	70.50	70.72	
MH DEPTH INVERT (m)	2.01	1.11	0.22	
CHAINAGE	0.00			7.41

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LEGEND

- EX GROUND LEVEL
- PR GROUND LEVEL
- HYDRAULIC GRADE LINE

Rev	Description	By	Date
A	RESOURCE CONSENT	MA	02/2026

	By	Date
Survey	MAVEN	
Design	SM	03/2026
Drawn	JPK	03/2026
Checked	DJM	

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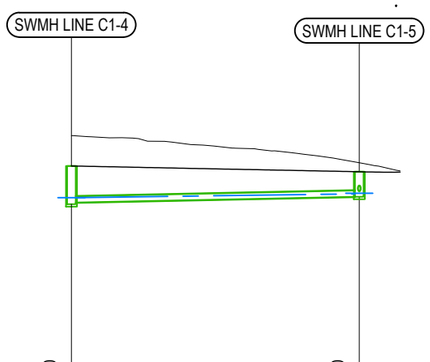
Project
HARLOW LIFESTYLE VILLAGE FOR HARLOW LIFESTYLE LTD

Title
PROPOSED STORMWATER LONGSECTION 5 OF 34

Project no.	411001
Scale	1:1000 @ A3
Cad file	411001-C400-SW.DWG
Drawing no.	C420-5 Rev A

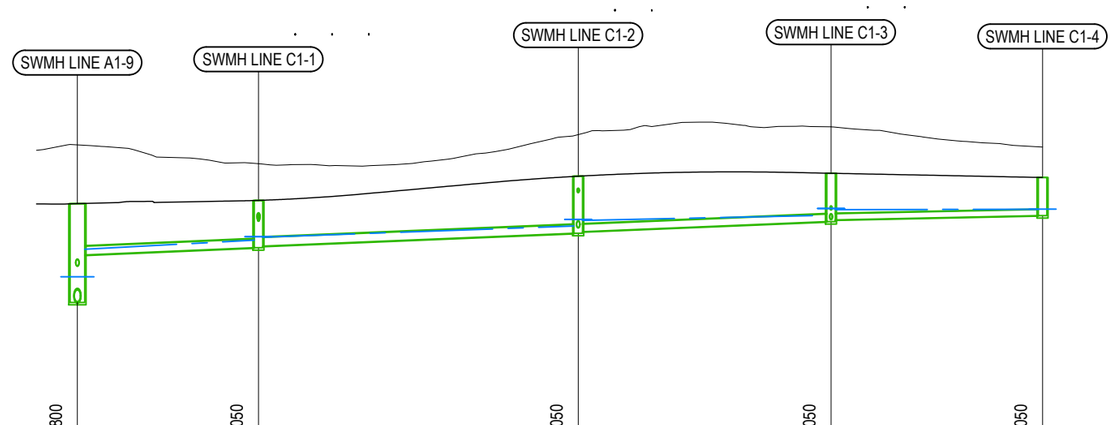
RESOURCE CONSENT

DATE: 10:10:26 FILEPATH: P:\MAVEN HAMILTON\6 PROJECTS\411001 - HARLOW LIFESTYLE VILLAGE\7 DRAWING\411001-C400-SW.DWG



	DN1050		DN1050
10YR ARI Q (l/s)		61.3l/s	
PIPE VELOCITY (m/s)		1.45m/s	
MIN COVER		1.12m	
		CH=152.75m	
PIPE DETAILS		375mm RCRRJ Class 4	
		1.00%	
DATUM RL =		49.0	
HGL LEVELS	73.62		73.85 73.89
EXISTING LEVELS		77.41	75.76
DESIGN LEVELS		75.55	75.20
PIPE INVERT	73.22	73.32	73.67
MH DEPTH INVERT (m)	2.33	2.23	1.53
CHAINAGE		118.07	153.28

SW LINE LINE C1



	DN1800	DN1050	DN1050	DN1050	DN1050
	483.2l/s	440.4l/s	296.6l/s	61.0l/s	
	3.13m/s	3.07m/s	2.78m/s	1.44m/s	
	2.31m	2.23m	2.46m	1.93m	
	CH=21.63m	CH=24.07m	CH=91.67m	CH=117.54m	
	525mm RCRRJ Class 4	525mm RCRRJ Class 4	450mm RCRRJ Class 4	375mm RCRRJ Class 4	
	2.00%	2.00%	2.00%	1.00%	
	47.0				
	68.92	69.49 71.17	71.72 71.94 71.91	72.59 72.99 72.93	73.24 73.66 73.59
		73.62			
		77.55	76.40	78.18	78.65 77.41
		73.96	74.16	75.63	75.81 75.55
	67.92	70.82	71.26 71.36	72.14 72.24	72.86 72.96 73.22
	6.04	3.14	2.90 2.80	3.49 3.39	2.95 2.85 2.33
		0.00	22.15	61.26	92.19 118.07

SW LINE LINE C1

NOTES

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9. MANHOLE SIZES ARE SHOWN ON LONGSECTIONS

LEGEND

- EX GROUND LEVEL
- PR GROUND LEVEL
- HYDRAULIC GRADE LINE

Rev	Description	By	Date
A	RESOURCE CONSENT	MA	02/2026

	By	Date
Survey	MAVEN	
Design	SM	03/2026
Drawn	JPK	03/2026
Checked	DJM	

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Project

HARLOW LIFESTYLE VILLAGE FOR HARLOW LIFESTYLE LTD

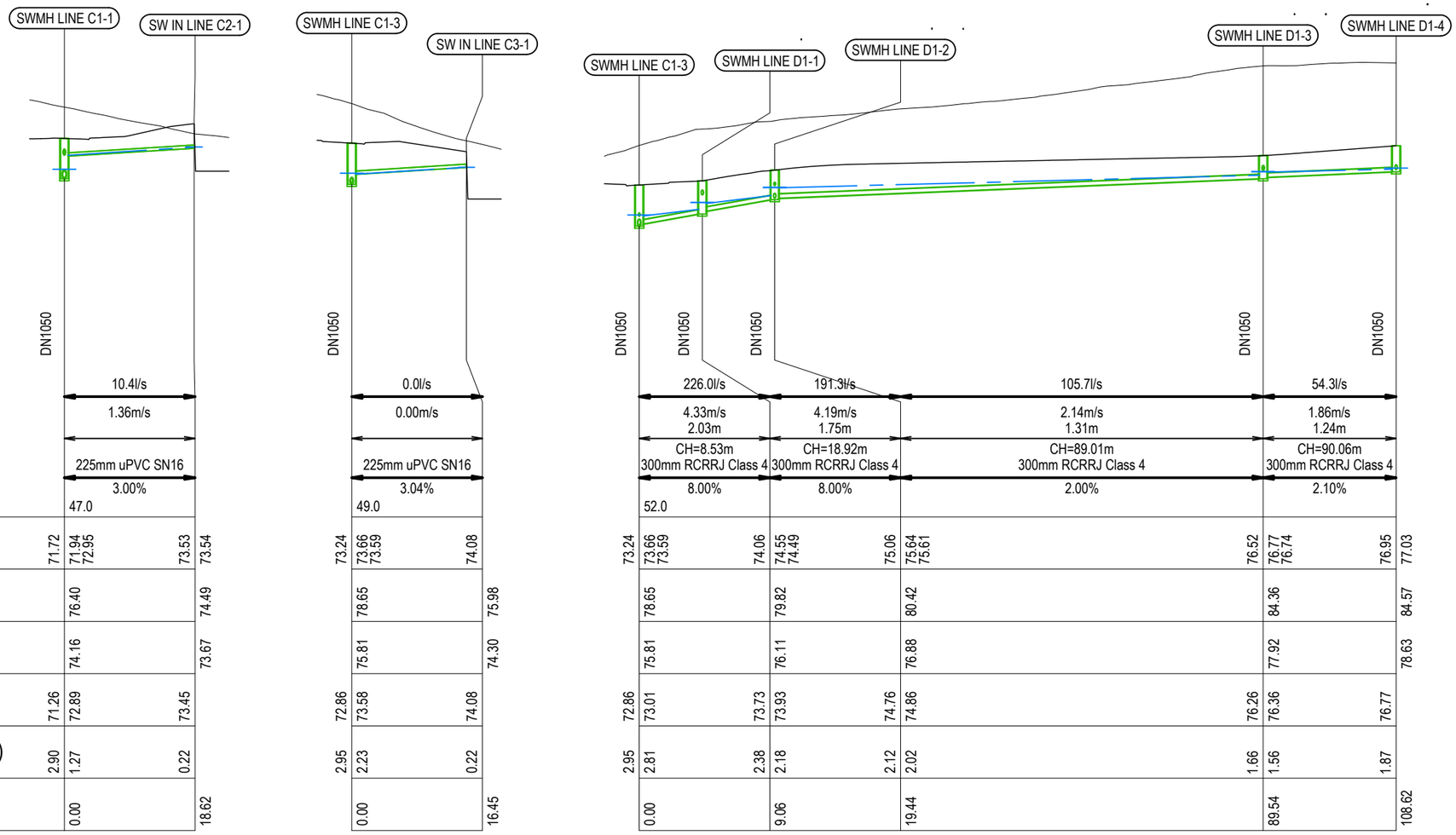
Title

PROPOSED STORMWATER LONGSECTION 6 OF 34

Project no.	411001
Scale	1:1000 @ A3
Cad file	411001-C400-SW.DWG
Drawing no.	C420-6 Rev A

RESOURCE CONSENT

DATE 10/12/25 FILEPATH: F:\MAVEN-HAMILTON\6 PROJECTS\411001 - HARLOW LIFESTYLE VILLAGE\7 DRAWING\411001-C400-SW.DWG



SW LINE LINE C2

SW LINE LINE C3

SW LINE LINE D1

NOTES

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- EX GROUND LEVEL
- PR GROUND LEVEL
- HYDRAULIC GRADE LINE

RESOURCE CONSENT

Rev	Description	By	Date
A	RESOURCE CONSENT	MA	02/2026

	By	Date
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Design	SM	03/2026
Drawn	JPK	03/2026
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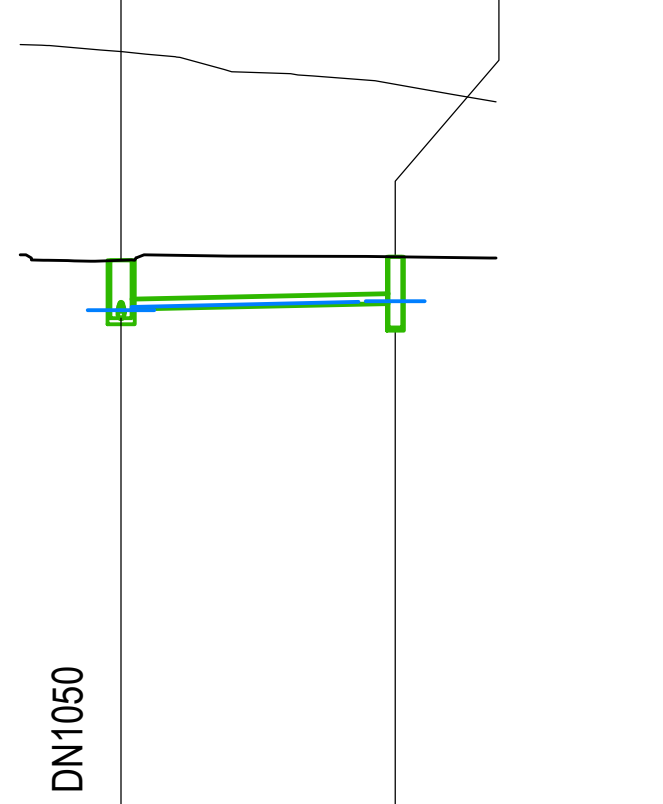
HARLOW LIFESTYLE VILLAGE FOR HARLOW LIFESTYLE LTD

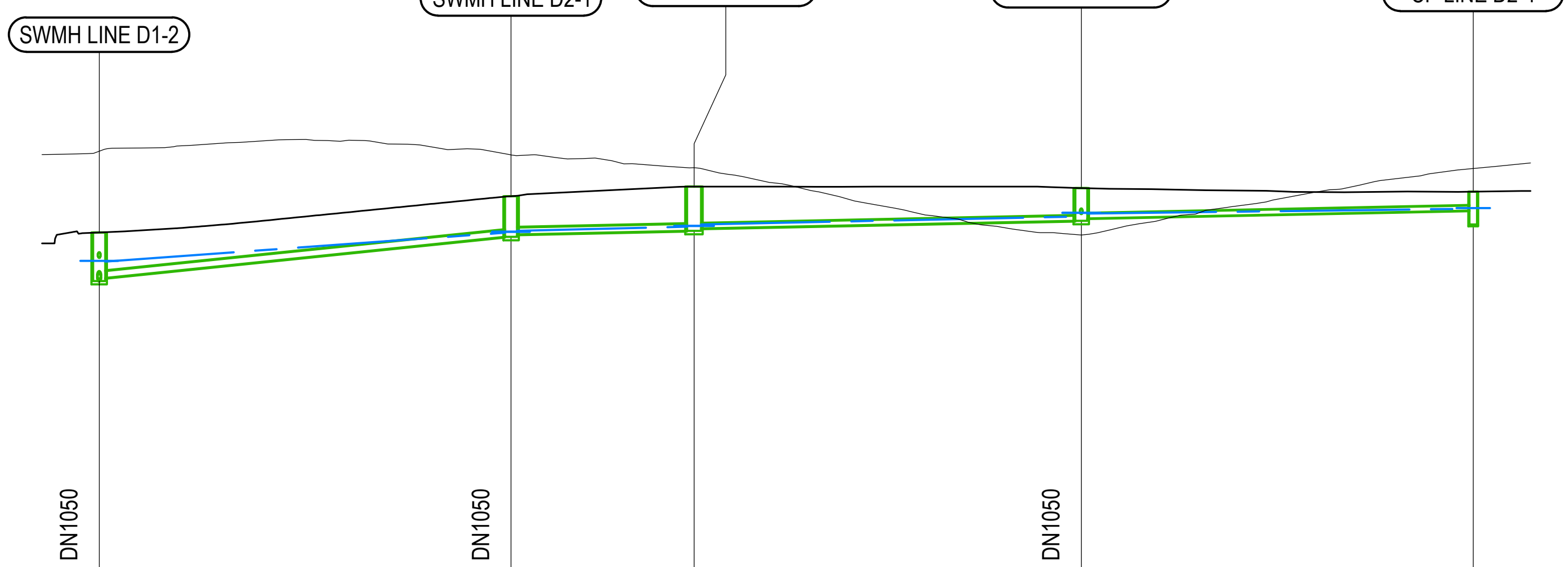
Title

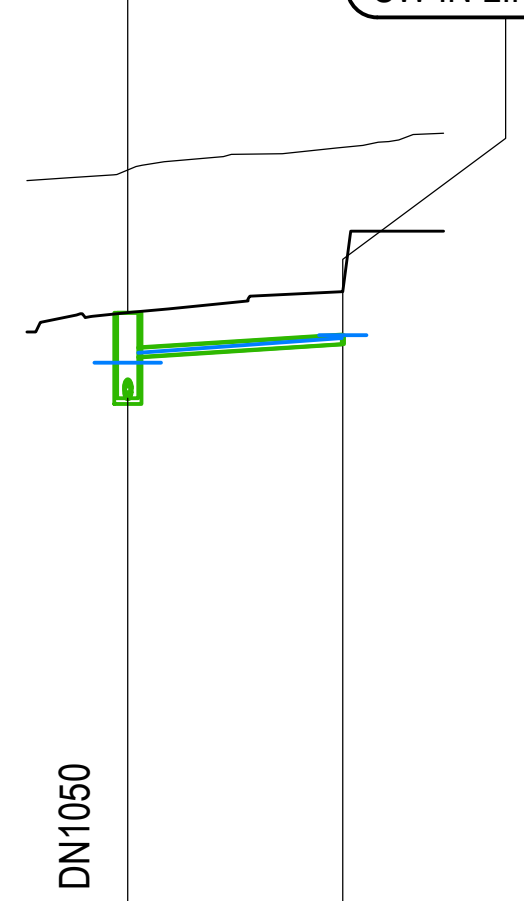
PROPOSED STORMWATER LONGSECTION 7 OF 34

Project no.	411001		
Scale	1:1000 @ A3		
Cad file	411001-C400-SW.DWG		
Drawing no.	C420-7	Rev	A

DATE 10:12:25 FILEPATH F:\MAVEN HAMILTON\6 PROJECTS\411001 - HARLOW LIFESTYLE VILLAGE\7 DRAWINGS\411001-C400-SW.DWG







SW LINE LINE D1-5L

10YR ARI Q (l/s)	3.2l/s
PIPE VELOCITY (m/s)	0.66m/s
MIN COVER	0.90m
PIPE DETAILS	CH=13.27m 225mm CP LEAD
	1.00%
DATUM RL =	54.0

HGL LEVELS	77.49	77.54 77.62	77.76	
EXISTING LEVELS		83.95		83.14
DESIGN LEVELS		78.77		78.86
PIPE INVERT	77.34	77.57	77.71	77.11
MH DEPTH INVERT (m)	1.43	1.20	1.15	1.75
CHAINAGE		0.00		13.61

SW LINE LINE D2

10YR ARI Q (l/s)	53.1l/s	53.2l/s	43.5l/s	10.7l/s
PIPE VELOCITY (m/s)	2.53m/s	1.40m/s	1.28m/s	0.93m/s
MIN COVER	1.41m	1.36m	1.18m	0.58m
PIPE DETAILS	CH=35.42m 300mm RCRRJ Class 4	CH=36.47m 300mm RCRRJ Class 4	CH=85.20m 225mm RCRRJ Class 4	CH=119.61m 225mm CP LEAD
	5.00%	1.00%	1.00%	1.00%
DATUM RL =	51.0			

HGL LEVELS	75.06	75.64 75.61	76.87	76.91 76.95	77.13	77.16 77.22	77.57	77.74 77.70	77.91	77.94
EXISTING LEVELS		80.42		80.26		79.70		76.77		79.67
DESIGN LEVELS		76.88		78.46		78.88		78.81		78.66
PIPE INVERT	74.76	74.89	76.69	76.79	76.95	77.05	77.39	77.49	77.83	77.23
MH DEPTH INVERT (m)	2.12	1.99	1.77	1.67	1.93	1.83	1.42	1.32	0.83	1.43
CHAINAGE		0.00		35.95		51.93		85.73		119.94

SW LINE LINE D3

10YR ARI Q (l/s)	33.4l/s
PIPE VELOCITY (m/s)	1.89m/s
MIN COVER	
PIPE DETAILS	225mm uPVC SN16
	3.00%
DATUM RL =	51.0

HGL LEVELS	75.06	75.64 75.88	76.25	76.33
EXISTING LEVELS		80.42		80.98
DESIGN LEVELS		76.88		76.33
PIPE INVERT	74.76	75.78	76.10	
MH DEPTH INVERT (m)	2.12	1.10	0.22	
CHAINAGE		0.00		10.67

RESOURCE CONSENT

NOTES

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LEGEND

EX GROUND LEVEL
PR GROUND LEVEL
HYDRAULIC GRADE LINE

Rev	Description	By	Date
A	RESOURCE CONSENT	MA	02/2026

	By	Date
Survey	MAVEN	
Design	SM	03/2026
Drawn	JPK	03/2026
Checked	DJM	

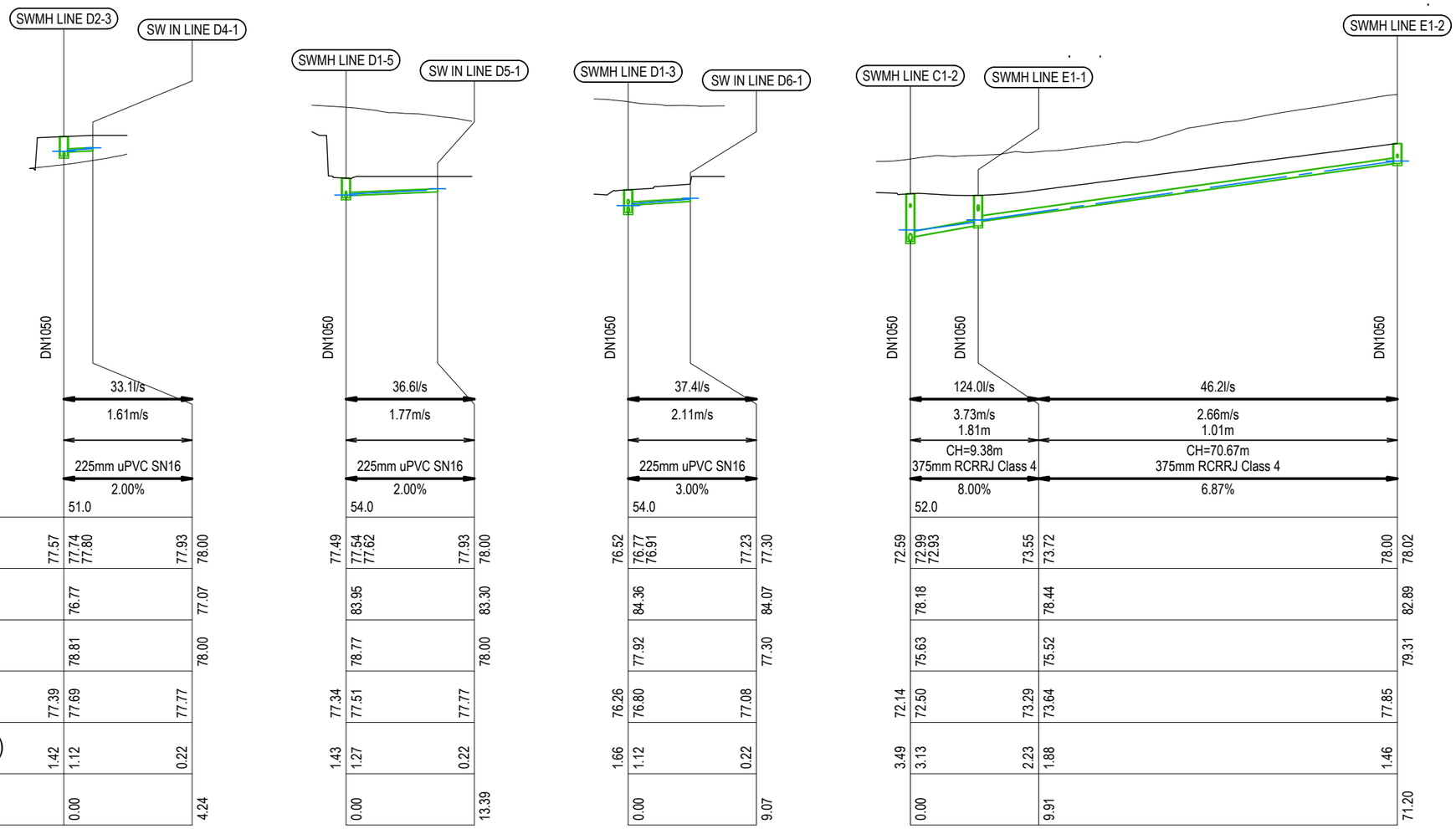
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Project
HARLOW LIFESTYLE VILLAGE FOR HARLOW LIFESTYLE LTD

Title
PROPOSED STORMWATER LONGSECTION 8 OF 34

Project no.	411001
Scale	1:1000 @ A3
Cad file	411001-C400-SW.DWG
Drawing no.	C420-8 Rev A

DATE: 10/13/26 FILE PATH: F:\MAVEN HAMILTON\6. PROJECTS\411001 - HARLOW LIFESTYLE VILLAGE\7. DRAWING\411001-C400-SW.DWG



10YR ARI Q (l/s)
PIPE VELOCITY (m/s)
MIN COVER
PIPE DETAILS

DATUM RL =				
		51.0		
HGL LEVELS	77.57	77.74 77.80	77.93	78.00
EXISTING LEVELS		76.77		77.07
DESIGN LEVELS		78.81		78.00
PIPE INVERT	77.39	77.69	77.77	
MH DEPTH INVERT (m)	1.42	1.12	0.22	
CHAINAGE		0.00		4.24

SW LINE LINE D4

		54.0		
HGL LEVELS	77.49	77.54 77.62	77.93	78.00
EXISTING LEVELS		83.95		83.30
DESIGN LEVELS		78.77		78.00
PIPE INVERT	77.34	77.51	77.77	
MH DEPTH INVERT (m)	1.43	1.27	0.22	
CHAINAGE		0.00		13.39

SW LINE LINE D5

		54.0		
HGL LEVELS	76.52	76.77 76.91	77.23	77.30
EXISTING LEVELS		84.36		84.07
DESIGN LEVELS		77.92		77.30
PIPE INVERT	76.26	76.80	77.08	
MH DEPTH INVERT (m)	1.66	1.12	0.22	
CHAINAGE		0.00		9.07

SW LINE LINE D6

		52.0		
HGL LEVELS	72.59	72.99 72.93	73.55	73.72 78.00	78.02
EXISTING LEVELS		78.18		78.44	82.89
DESIGN LEVELS		75.63		75.52	79.31
PIPE INVERT	72.14	72.50	73.29	73.64 77.85	
MH DEPTH INVERT (m)	3.49	3.13	2.23	1.88 1.46	
CHAINAGE		0.00		9.91	71.20

SW LINE LINE E1

RESOURCE CONSENT

NOTES
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LEGEND
- EX GROUND LEVEL
- PR GROUND LEVEL
- HYDRAULIC GRADE LINE

Rev	Description	By	Date
A	RESOURCE CONSENT	MA	02/2026

	By	Date
Survey	MAVEN	
Design	SM	03/2026
Drawn	JPK	03/2026
Checked	DJM	

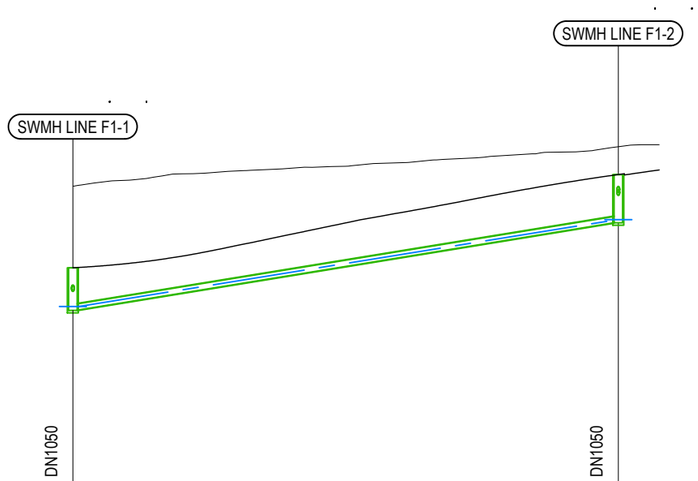
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Project
HARLOW LIFESTYLE VILLAGE FOR HARLOW LIFESTYLE LTD

Title
PROPOSED STORMWATER LONGSECTION 9 OF 34

Project no.	411001		
Scale	1:1000 @ A3		
Cad file	411001-C400-SW.DWG		
Drawing no.	C420-9	Rev	A

DATE: 10/3/26 FILEPATH: F:\MAVEN HAMILTON\6 PROJECTS\411001 - HARLOW LIFESTYLE VILLAGE\7 DRAWINGS\411001-C400-SW.DWG



10YR ARI Q (l/s)				51.3l/s						
PIPE VELOCITY (m/s)				2.90m/s						
MIN COVER				1.84m						
PIPE DETAILS				CH=32.98m 375mm RCRRJ Class 4						
				8.00%						
DATUM RL =				50.0						
HGL LEVELS	71.82	71.97	71.95					77.25	77.28	
EXISTING LEVELS		79.33							81.74	
DESIGN LEVELS		74.34							80.04	
PIPE INVERT	71.73	71.75						77.09		
MH DEPTH INVERT (m)	2.61	2.59						2.95		
CHAINAGE		19.66							86.39	

SW LINE LINE F1



10YR ARI Q (l/s)				39.7l/s						
PIPE VELOCITY (m/s)				1.30m/s						
MIN COVER				1.07m						
PIPE DETAILS				CH=155.02m 300mm RCRRJ Class 4						
				1.00%						
DATUM RL =				54.0						
HGL LEVELS	76.95	77.03	77.02					77.49	77.54	
EXISTING LEVELS		84.57							83.95	
DESIGN LEVELS		78.63							78.77	
PIPE INVERT	76.77	76.87						77.34		
MH DEPTH INVERT (m)	1.87	1.77						1.43		
CHAINAGE		108.62							156.18	

SW LINE LINE D1

RESOURCE CONSENT

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- HYDRAULIC GRADE LINE

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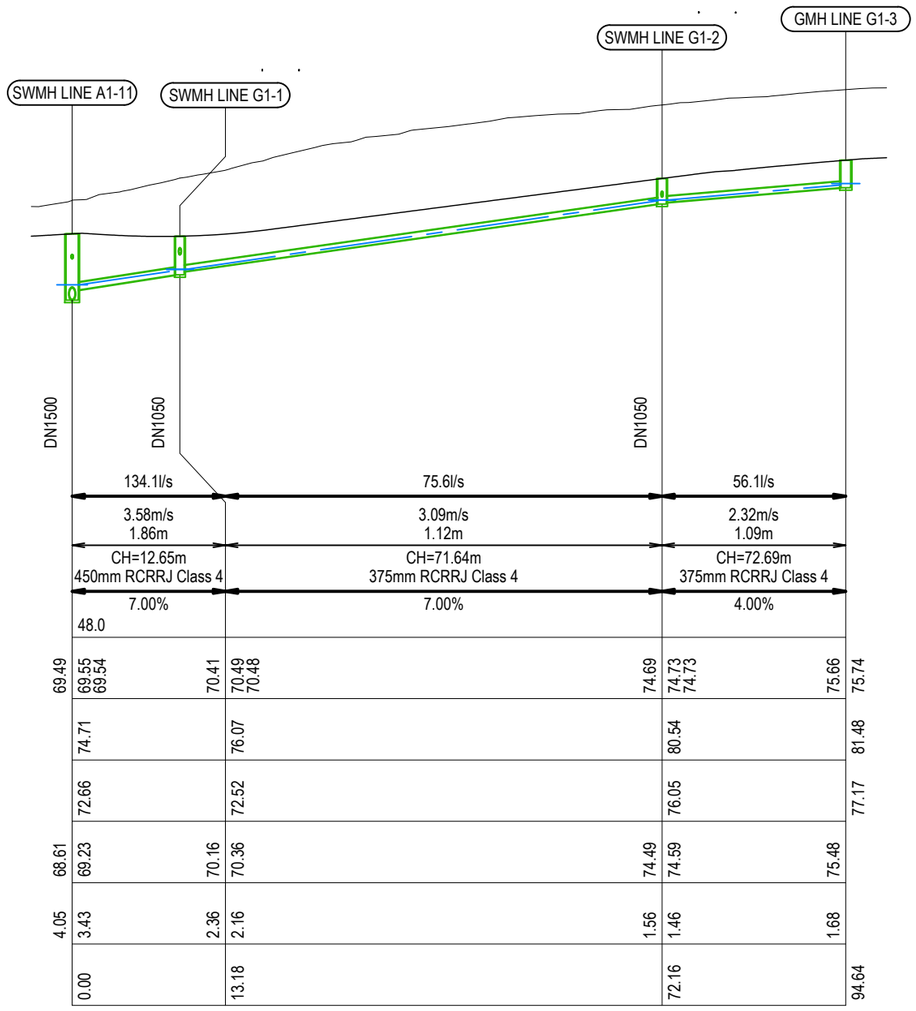
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Project
HARLOW LIFESTYLE VILLAGE FOR HARLOW LIFESTYLE LTD

Title
PROPOSED STORMWATER LONGSECTION 10 OF 34

Project no.	411001		
Scale	1:1000 @ A3		
Cad file	411001-C400-SW.DWG		
Drawing no.	C420-10	Rev	A

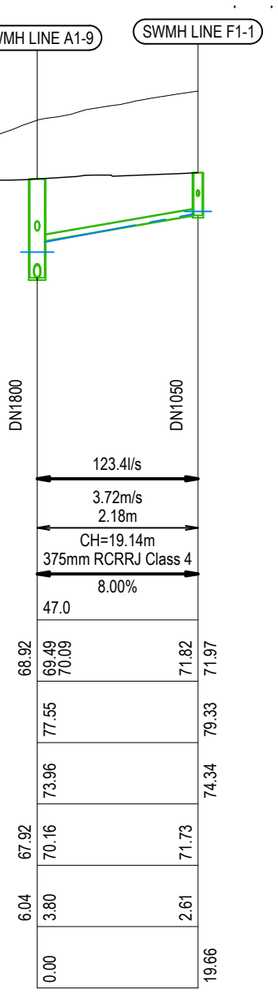
DATE 10/12/26 F:&E:PATH: F:\MAVEN HAMILTON\6 PROJECTS\411001 - HARLOW LIFESTYLE VILLAGE\7 2WORK\04 411001-C400-SW.DWG



SW LINE LINE G1

10YR ARI Q (l/s)			
PIPE VELOCITY (m/s)		19.4l/s	
MIN COVER		1.53m/s 1.08m	
PIPE DETAILS		CH=71.72m 375mm RCRRJ Class 4	
		2.98%	
DATUM RL =		55.0	
HGL LEVELS	78.00	78.02	78.48 78.49
EXISTING LEVELS		82.89	84.61
DESIGN LEVELS		79.31	80.10
PIPE INVERT	77.85	77.85	78.38
MH DEPTH INVERT (m)	1.46	1.46	1.72
CHAINAGE		71.20	88.93

SW LINE LINE E1



SW LINE LINE F1

NOTES

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9. MANHOLE SIZES ARE SHOWN ON LONGSECTIONS

LEGEND

- EX GROUND LEVEL
- PR GROUND LEVEL
- HYDRAULIC GRADE LINE

Rev	Description	By	Date
A	RESOURCE CONSENT	MA	02/2026

	By	Date
Survey	MAVEN	
Design	SM	03/2026
Drawn	JPK	03/2026
Checked	DJM	

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Hamilton 3200
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Project

HARLOW LIFESTYLE VILLAGE FOR HARLOW LIFESTYLE LTD

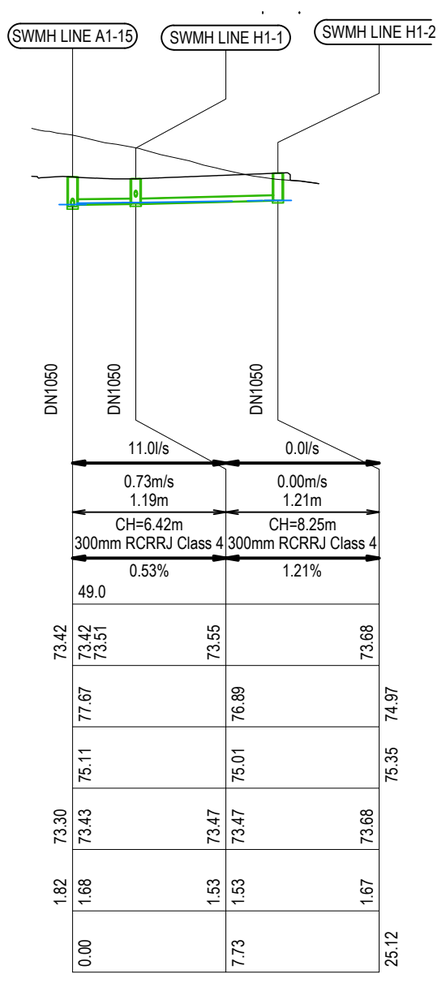
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PROPOSED STORMWATER LONGSECTION 11 OF 34

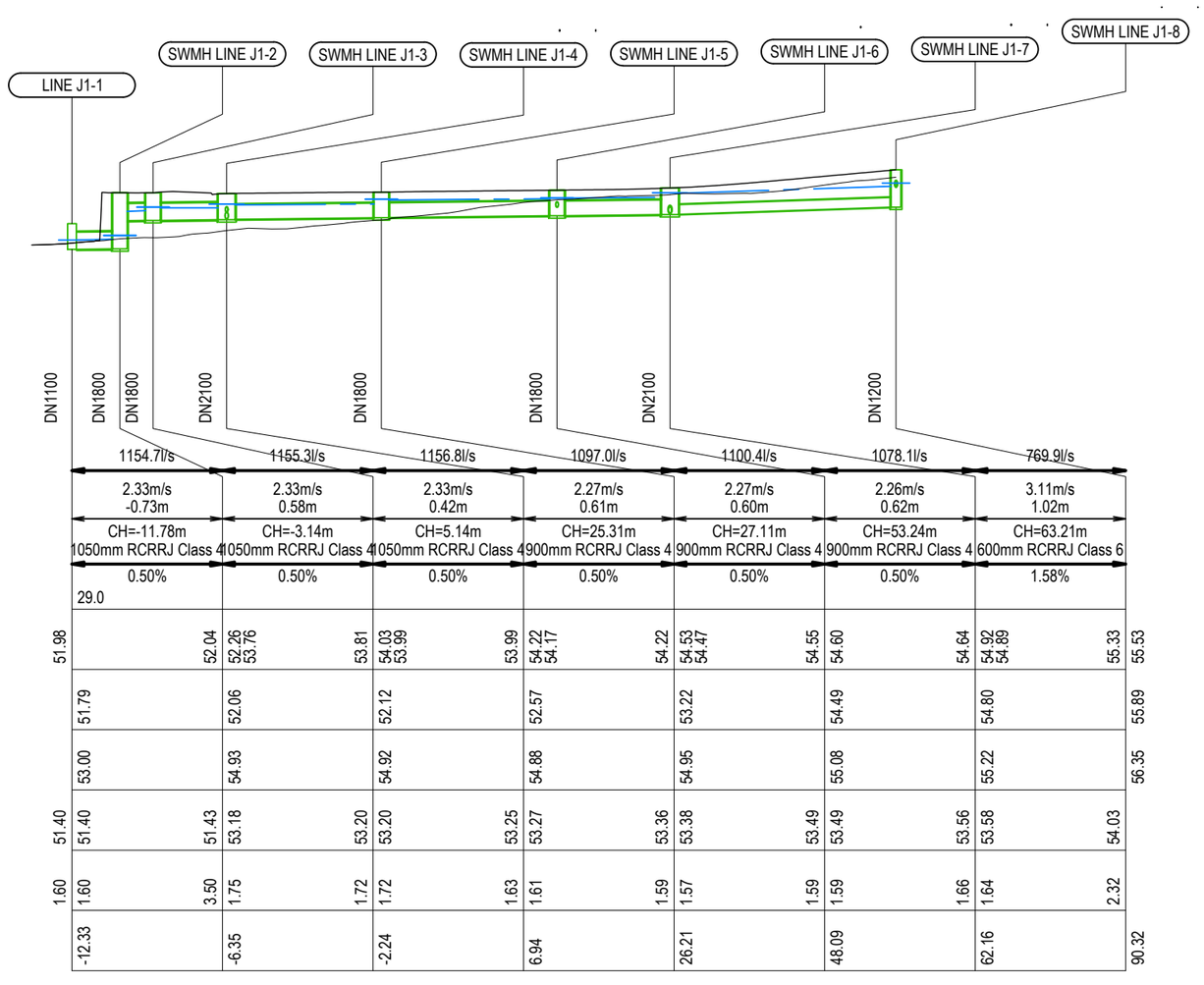
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Cad file	411001-C400-SW.DWG		
Drawing no.	C420-11	Rev	A

RESOURCE CONSENT

DATE: 10:13:25 FILE PATH: P:\MAVEN HAMILTON\PROJECTS\411001 - HARLOW LIFESTYLE VILLAGE\7 DRAWING\411001-C400-SW.DWG



SW LINE LINE H1



SW LINE LINE J1

NOTES

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LEGEND

- EX GROUND LEVEL
- PR GROUND LEVEL
- HYDRAULIC GRADE LINE

RESOURCE CONSENT

Rev	Description	By	Date
A	RESOURCE CONSENT	MA	02/2026

	By	Date
Survey	MAVEN	
Design	SM	03/2026
Drawn	JPK	03/2026
Checked	DJM	

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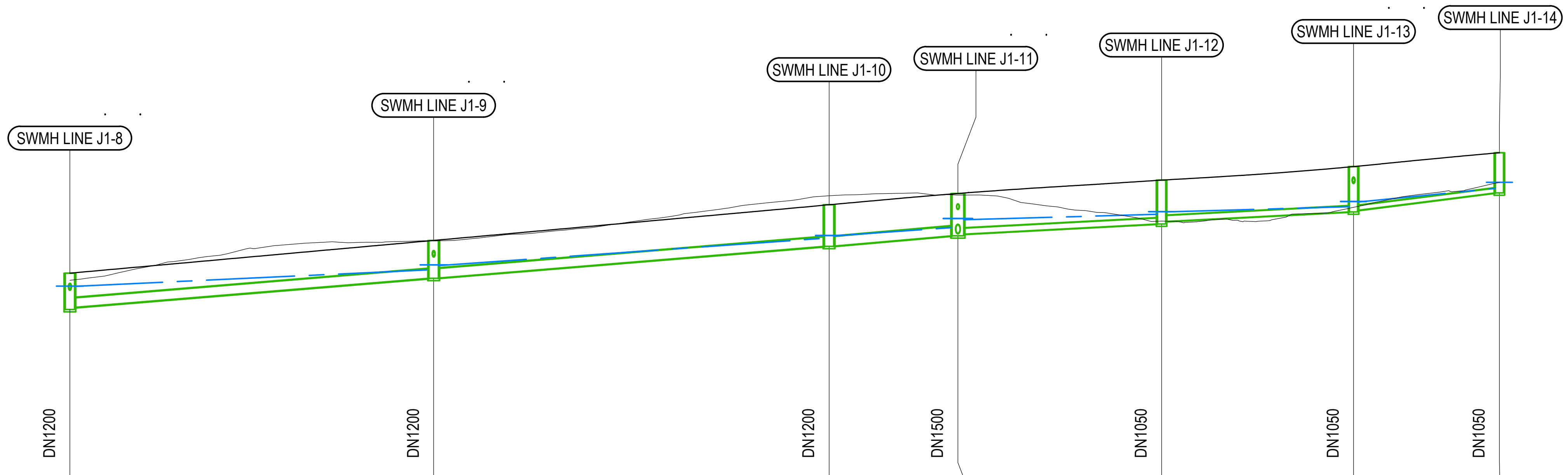
HARLOW LIFESTYLE VILLAGE FOR HARLOW LIFESTYLE LTD

Title

PROPOSED STORMWATER LONGSECTION 12 OF 34

Project no.	411001		
Scale	1:1000 @ A3		
Cad file	411001-C400-SW.DWG		
Drawing no.	C420-12	Rev	A

DATE: 10:13:25 FILE PATH: P:\MAVEN HAMILTON\PROJECTS\411001 - HARLOW LIFESTYLE VILLAGE\7 DRAWING\411001-C400-SW.DWG



	J1-8 to J1-9	J1-9 to J1-10	J1-10 to J1-11	J1-11 to J1-12	J1-12 to J1-13	J1-13 to J1-14
10YR ARI Q (l/s)	726.8l/s	648.5l/s	649.9l/s	211.2l/s	211.8l/s	153.4l/s
PIPE VELOCITY (m/s)	4.53m/s	4.40m/s	4.41m/s	2.77m/s	2.77m/s	3.57m/s
MIN COVER	1.56m	1.77m	2.01m	2.21m	2.25m	2.20m
PIPE DETAILS	CH=90.92m 600mm RCRRJ Class 4 4.00%	CH=137.38m 600mm RCRRJ Class 4 4.00%	CH=187.88m 600mm RCRRJ Class 4 4.00%	CH=204.49m 375mm RCRRJ Class 4 2.50%	CH=230.28m 375mm RCRRJ Class 4 2.50%	CH=272.38m 300mm RCRRJ Class 4 6.00%

DATUM RL = 33.0

	J1-8	J1-9	J1-10	J1-11	J1-12	J1-13	J1-14
HGL LEVELS	55.33 / 55.53 55.51	56.56 / 56.88 56.83	58.58 / 58.76 58.73	59.26 / 59.84 59.76	60.11 / 60.28 60.26	60.59 / 60.93 60.89	61.76 / 62.15
EXISTING LEVELS	55.89	58.41	61.30	61.34	59.68	60.55	62.14
DESIGN LEVELS	56.35	58.44	60.72	61.44	62.29	63.16	64.04
PIPE INVERT	54.03 / 54.16	56.02 / 56.04	58.06 / 58.08	58.74 / 58.84	59.49 / 59.65	60.26 / 60.36	61.48
MH DEPTH INVERT (m)	2.32 / 2.19	2.42 / 2.40	2.66 / 2.64	2.70 / 2.60	2.80 / 2.64	2.90 / 2.80	2.56
CHAINAGE	90.32	136.78	187.28	203.74	229.75	254.27	272.90

SW LINE LINE J1

RESOURCE CONSENT

DATE: 10/13/26 FILE PATH: F:\MAVEN HAMILTON\6. PROJECTS\411001 - HARLOW LIFESTYLE VILLAGE\7. DRAWING\411001-C400-SW.DWG

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LEGEND
EX GROUND LEVEL
PR GROUND LEVEL
HYDRAULIC GRADE LINE

Rev	Description	By	Date
A	RESOURCE CONSENT	MA	02/2026

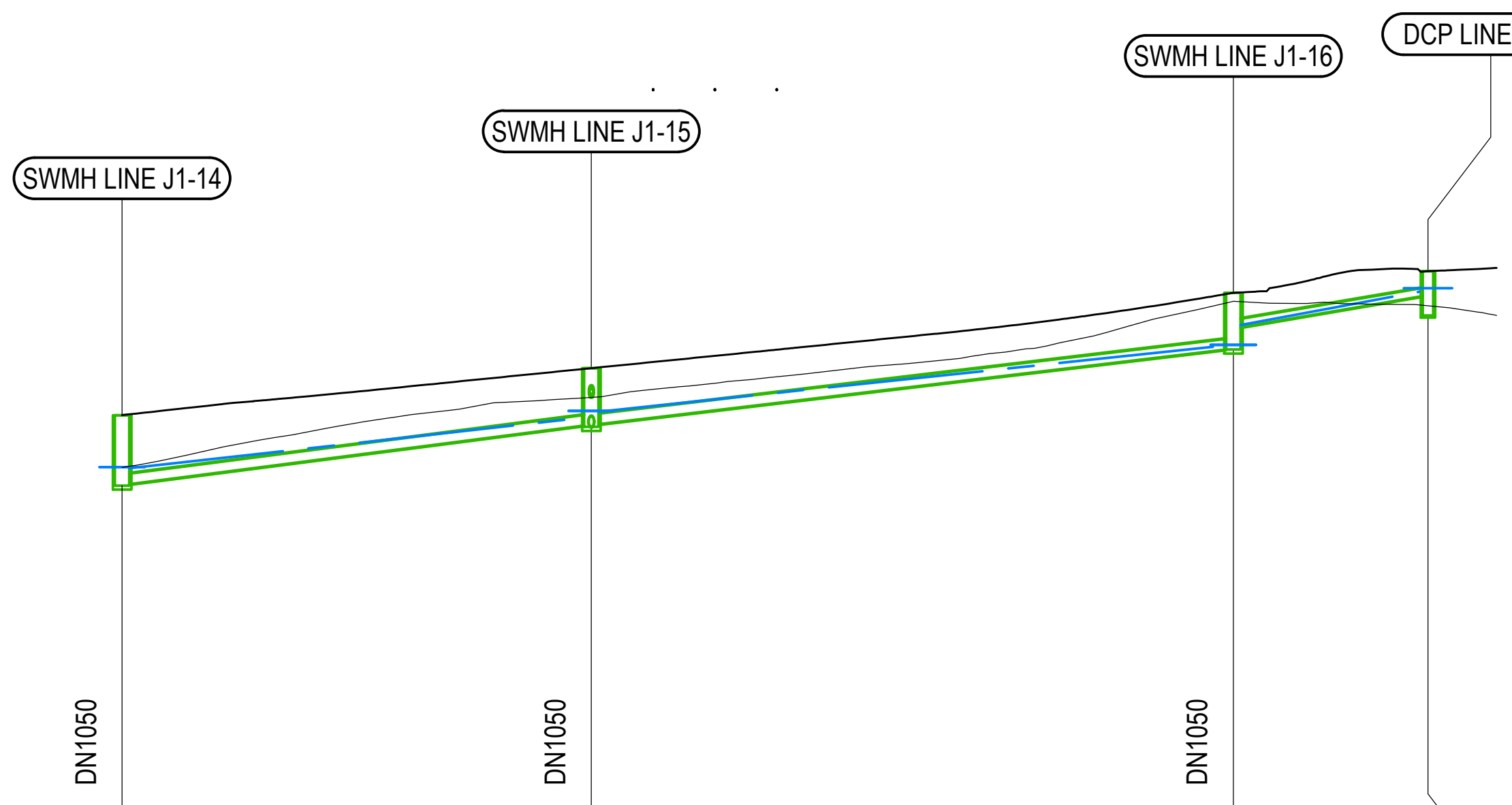
	By	Date
Survey	MAVEN	
Design	SM	03/2026
Drawn	JPK	03/2026
Checked	DJM	

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Project
HARLOW LIFESTYLE VILLAGE FOR HARLOW LIFESTYLE LTD

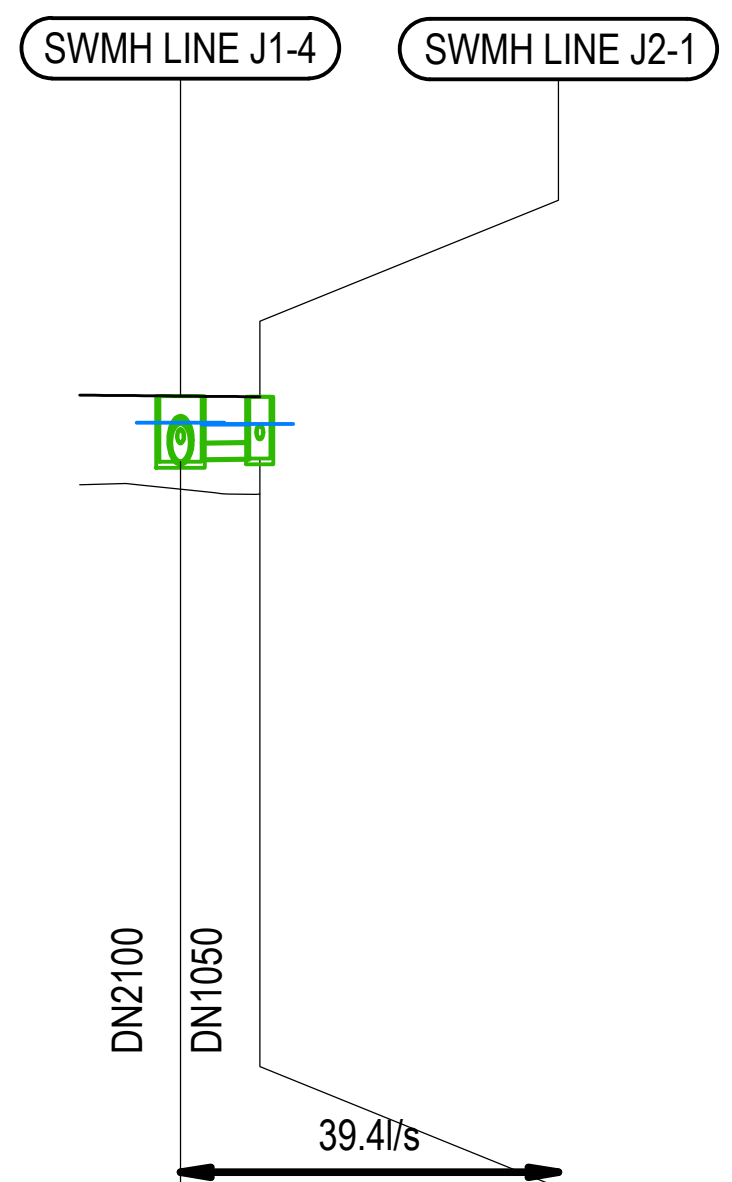
Title
PROPOSED STORMWATER LONGSECTION 13 OF 34

Project no.	411001
Scale	1:1000 @ A3
Cad file	411001-C400-SW.DWG
Drawing no.	C420-13
Rev	A



10YR ARI Q (l/s)		154.0l/s		42.4l/s		42.5l/s		
PIPE VELOCITY (m/s)		3.62m/s		2.45m/s		2.81m/s		
MIN COVER		1.65m		1.39m		0.56m		
PIPE DETAILS		CH=306.56m 375mm RCRRJ Class 4		CH=338.14m 375mm RCRRJ Class 4		CH=367.64m 300mm CP LEAD		
		6.25%		5.82%		8.00%		
DATUM RL =		39.0						
HGL LEVELS	61.76	62.15 62.11	63.95	64.20 64.17	66.58	66.60 67.32	68.54	68.67
EXISTING LEVELS		62.14		64.69		68.19		68.03
DESIGN LEVELS		64.04		65.75		68.50		69.29
PIPE INVERT	61.48	61.53	63.66	63.62 63.71	66.44	67.24	68.38	67.68
MH DEPTH INVERT (m)	2.56	2.51	2.09	2.14 2.04	2.06	1.25	0.91	1.61
CHAINAGE		272.90		307.08		353.85		368.02

SW LINE LINE J1



10YR ARI Q (l/s)		39.4l/s		
PIPE VELOCITY (m/s)		1.00m/s		
MIN COVER		1.12m		
PIPE DETAILS		CH=3.41m 375mm RCRRJ Class 4		
		0.50%		
DATUM RL =		27.0		
HGL LEVELS	53.99	54.22 54.17	54.17	54.18
EXISTING LEVELS		52.57		52.44
DESIGN LEVELS		54.88		54.86
PIPE INVERT	53.25	53.31	53.33	
MH DEPTH INVERT (m)	1.63	1.56	1.53	
CHAINAGE		0.00		3.93

SW LINE LINE J2

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LEGEND
- EX GROUND LEVEL
- PR GROUND LEVEL
- HYDRAULIC GRADE LINE

Rev	Description	By	Date
A	RESOURCE CONSENT	MA	02/2026

	By	Date
Survey	MAVEN	
Design	SM	03/2026
Drawn	JPK	03/2026
Checked	DJM	

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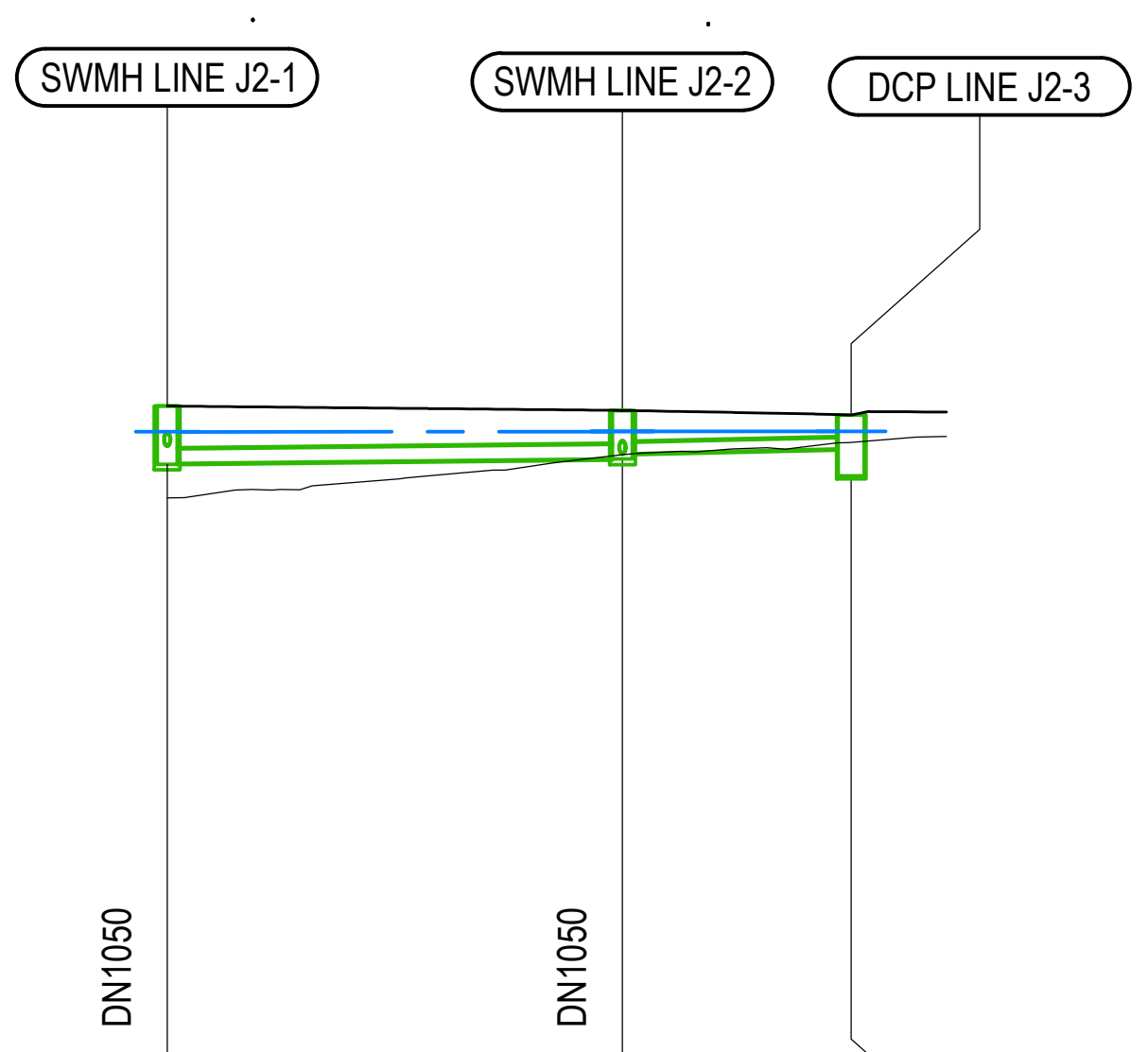
Project
HARLOW LIFESTYLE VILLAGE FOR HARLOW LIFESTYLE LTD

Title
PROPOSED STORMWATER LONGSECTION 14 OF 34

Project no.	411001		
Scale	1:1000 @ A3		
Cad file	411001-C400-SW.DWG		
Drawing no.	C420-14	Rev	A

RESOURCE CONSENT

DATE: 10/13/26 FILE PATH: F:\MAVEN HAMILTON\6. PROJECTS\411001 - HARLOW LIFESTYLE VILLAGE\7. DRAWING\411001-C400-SW.DWG

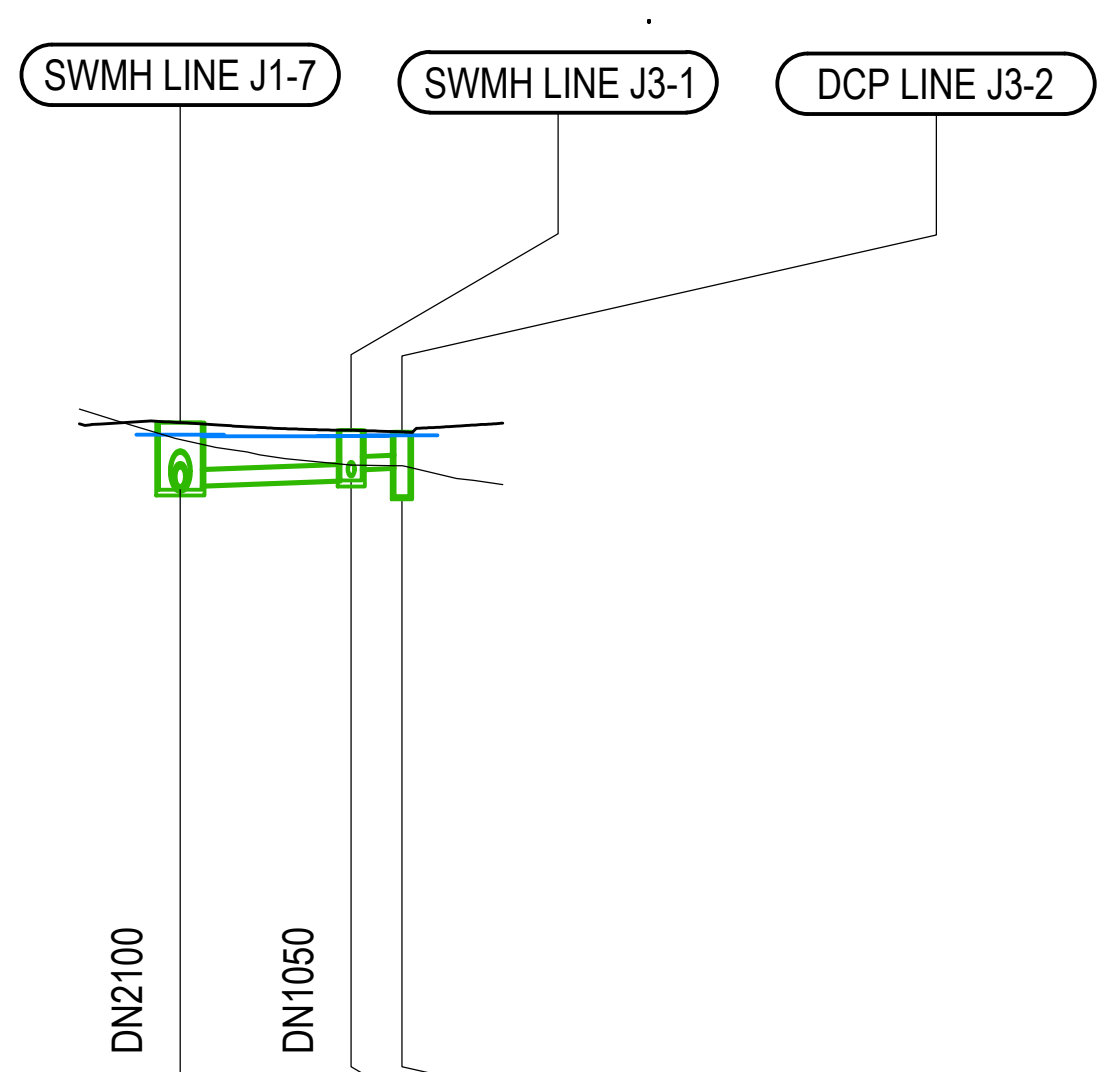


10YR ARI Q (l/s)	29.1l/s	6.8l/s
PIPE VELOCITY (m/s)	0.92m/s	0.79m/s
MIN COVER	0.86m	0.57m
PIPE DETAILS	CH=27.29m 375mm RCRRJ Class 4	CH=39.14m 300mm CP LEAD
	0.50%	1.00%

DATUM RL = 27.0

		SWMH LINE J2-1		SWMH LINE J2-2		DCP LINE J2-3
HGL LEVELS	54.17	54.18	54.19		54.19	
EXISTING LEVELS		52.44		53.59		53.90
DESIGN LEVELS		54.86		54.74		54.62
PIPE INVERT	53.33	53.35	53.47	53.61	53.73	53.03
MH DEPTH INVERT (m)	1.53	1.51	1.27	1.13	0.89	1.59
CHAINAGE		3.93		27.81		39.82

SW LINE LINE J2



10YR ARI Q (l/s)	27.0l/s	21.1l/s
PIPE VELOCITY (m/s)	1.33m/s	1.27m/s
MIN COVER	0.84m	0.57m
PIPE DETAILS	CH=7.95m 375mm RCRRJ Class 4	CH=10.63m 300mm CP LEAD
	1.50%	1.50%

DATUM RL = 28.0

		SWMH LINE J1-7		SWMH LINE J3-1		DCP LINE J3-2
HGL LEVELS	54.64	54.92 54.89	54.89		54.89	54.91
EXISTING LEVELS		54.80		54.17		54.15
DESIGN LEVELS		55.22		55.04		55.00
PIPE INVERT	53.56	53.66	53.79	54.07	54.10	53.40
MH DEPTH INVERT (m)	1.66	1.56	1.25	0.97	0.90	1.60
CHAINAGE		0.00		8.48		11.00

SW LINE LINE J3

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LEGEND

EX GROUND LEVEL
PR GROUND LEVEL
HYDRAULIC GRADE LINE

Rev	Description	By	Date
A	RESOURCE CONSENT	MA	02/2026

	By	Date
Survey	MAVEN	
Design	SM	03/2026
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Checked	DJM	

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HARLOW LIFESTYLE VILLAGE FOR HARLOW LIFESTYLE LTD

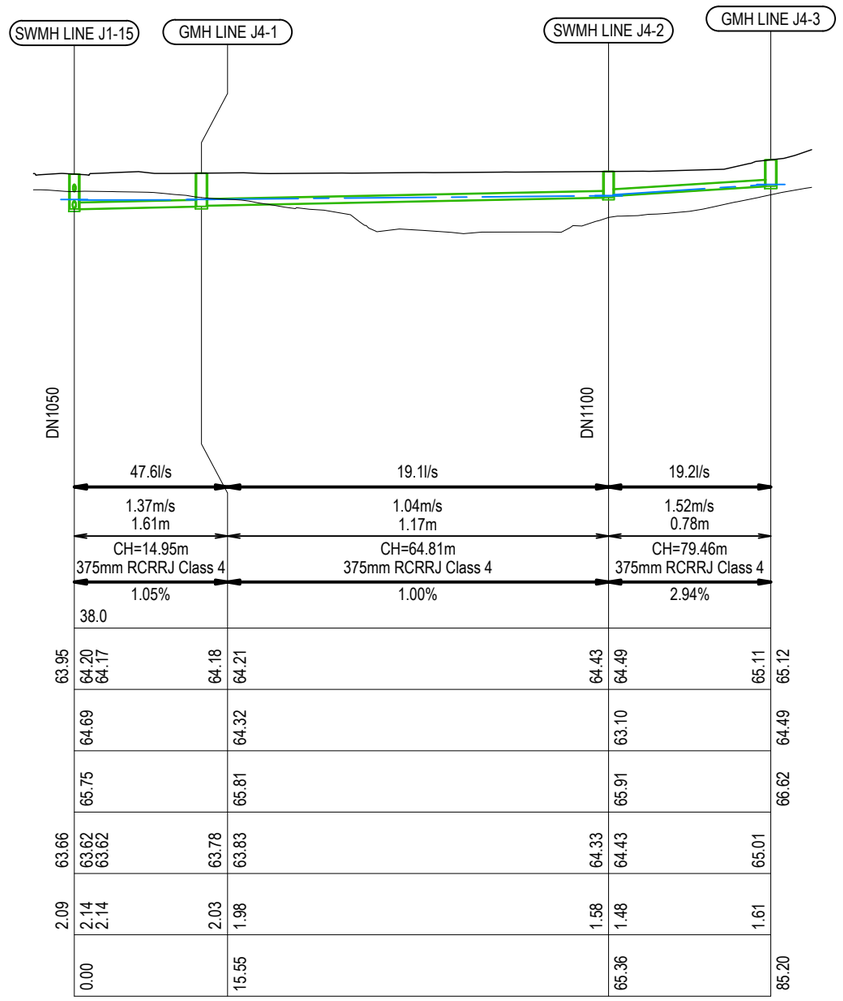
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PROPOSED STORMWATER LONGSECTION 15 OF 34

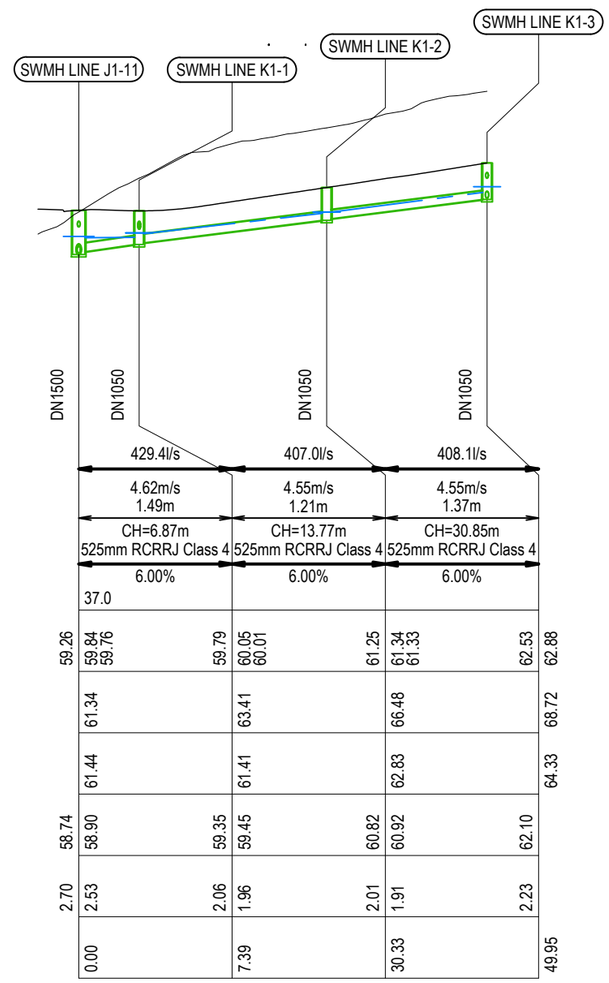
Project no.	411001
Scale	1:1000 @ A3
Cad file	411001-C400-SW.DWG
Drawing no.	C420-15 — Rev A

RESOURCE CONSENT

DATE: 10/13/26 FILE PATH: F:\MAVEN HAMILTON\6. PROJECTS\411001 - HARLOW LIFESTYLE VILLAGE\7. DRAWING\411001-C400-SW.DWG



SW LINE LINE J4



SW LINE LINE K1

NOTES

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LEGEND

- EX GROUND LEVEL
- PR GROUND LEVEL
- HYDRAULIC GRADE LINE

Rev	Description	By	Date
A	RESOURCE CONSENT	MA	02/2026

	By	Date
Survey	MAVEN	
Design	SM	03/2026
Drawn	JPK	03/2026
Checked	DJM	

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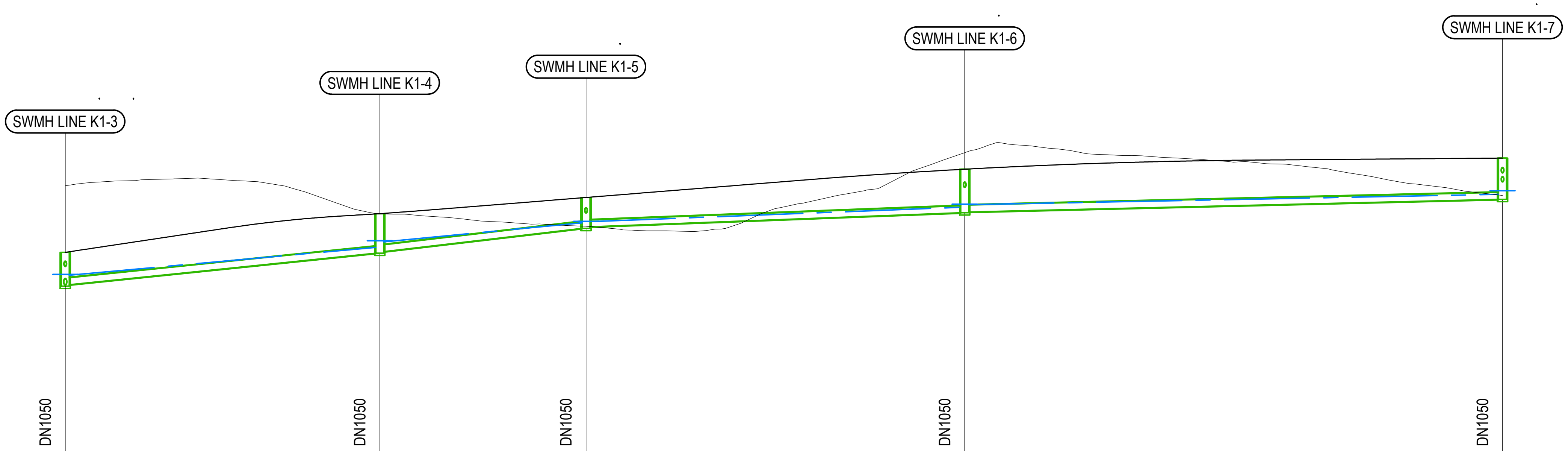
Title

PROPOSED STORMWATER LONGSECTION 16 OF 34

Project no.	411001		
Scale	1:1000 @ A3		
Cad file	411001-C400-SW.DWG		
Drawing no.	C420-16	Rev	A

RESOURCE CONSENT

DATE 10/12/25 FILE PATH F:\MAVEN\HAMILTON\6 PROJECTS\411001 - HARLOW LIFESTYLE VILLAGE\7 DRAWINGS\411001-C400-SW.DWG



10YR ARI Q (l/s)	307.3l/s	276.6l/s	263.0l/s	217.5l/s
PIPE VELOCITY (m/s)	3.97m/s	4.04m/s	2.63m/s	2.11m/s
MIN COVER	1.68m	1.52m	1.46m	2.22m
PIPE DETAILS	CH=50.47m 450mm RCRRJ Class 4 5.00%	CH=118.18m 450mm RCRRJ Class 4 5.63%	CH=119.23m 450mm RCRRJ Class 4 1.86%	CH=239.18m 450mm RCRRJ Class 4 1.17%

DATUM RL = 40.0

HGL LEVELS	62.53	62.88 62.83	64.66	65.10 65.02	66.28	66.37 66.36	67.30	67.51 67.48	68.15	68.39
EXISTING LEVELS		68.72		66.87		66.05		70.91		68.08
DESIGN LEVELS		64.33		66.88		67.95		69.81		70.55
PIPE INVERT	62.10	62.20	64.28	64.38	65.91	66.01	66.94	66.99	67.83	
MH DEPTH INVERT (m)	2.23	2.13	2.60	2.50	2.04	1.94	2.87	2.82	2.72	
CHAINAGE		49.95		91.48		118.70		168.70		239.71

SW LINE LINE K1

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LEGEND
EX GROUND LEVEL
PR GROUND LEVEL
HYDRAULIC GRADE LINE

Rev	Description	By	Date
A	RESOURCE CONSENT	MA	02/2026

	By	Date
Survey	MAVEN	
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HARLOW LIFESTYLE VILLAGE FOR HARLOW LIFESTYLE LTD

Title
PROPOSED STORMWATER LONGSECTION 17 OF 34

Project no.	411001
Scale	1:1000 @ A3
Cad file	411001-C400-SW.DWG
Drawing no.	C420-17
Rev	A

RESOURCE CONSENT

DATE: 10/13/26 FILE PATH: F:\MAVEN HAMILTON\6. PROJECTS\411001 - HARLOW LIFESTYLE VILLAGE\7. DRAWING\411001-C400-SW.DWG



	K1-7 to K1-8	K1-8 to K1-9	K1-9 to K1-10	K1-10 to K1-11
10YR ARI Q (l/s)	167.6l/s	82.2l/s	82.3l/s	0.0l/s
PIPE VELOCITY (m/s)	2.17m/s	1.81m/s	2.19m/s	0.00m/s
MIN COVER	1.73m	1.36m	1.24m	1.16m
PIPE DETAILS	CH=252.30m 450mm RCRRJ Class 4 1.50%	CH=295.12m 375mm RCRRJ Class 4 1.50%	CH=304.85m 375mm RCRRJ Class 4 2.50%	CH=330.84m 375mm RCRRJ Class 4 2.50%

DATUM RL = 42.0

	SWMH LINE K1-7	SWMH LINE K1-8	SWMH LINE K1-9	SWMH LINE K1-10	SWMH LINE K1-11
HGL LEVELS	68.15 / 68.39 68.34	68.36 / 68.49 68.47	68.98 / 69.05 69.03	69.32 / 69.39 69.37	70.53
EXISTING LEVELS	68.08	66.71	65.32	66.73	73.52
DESIGN LEVELS	70.55	70.29	70.53	70.77	72.22
PIPE INVERT	67.83 / 67.88	68.07 / 68.12	68.77 / 68.87	69.11 / 69.21	70.53
MH DEPTH INVERT (m)	2.72 / 2.67	2.22 / 2.17	1.77 / 1.67	1.66 / 1.56	1.69
CHAINAGE	239.71	252.83	295.65	305.38	358.08

SW LINE LINE K1

NOTES
1. ALL WORKS TO BE IN ACCORDANCE WITH WAIKATO REGIONAL INFRASTRUCTURE TECHNICAL SPECIFICATIONS.
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3. IT IS THE CONTRACTORS RESPONSIBILITY TO LOCATE ALL SERVICES THAT MAY BE AFFECTED BY HIS OPERATIONS.
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5. APPROVED HARDFILL IS TO BE USED IN BACKFILLING OF ALL STORMWATER LINES WITHIN THE ROAD RESERVE.
6. HEAVY DUTY MANHOLE LIDS AND FRAMES TO BE USED IN TRAFFICKED AREAS.
7. ALL SINGLE CESSPIT LEADS SHALL BE Ø225mm, AND DOUBLE Ø300mm AT MINIMUM 1.0% GRADE
8. ALL LINES TO BE ABANDONED SHALL BE SEALED AT EACH END. TIMING OF ALL SEALING TO BE COORDINATED WITH COUNCIL STAFF.
9. MANHOLE SIZES ARE SHOWN ON LONGSECTIONS

LEGEND
- EX GROUND LEVEL
- PR GROUND LEVEL
- HYDRAULIC GRADE LINE

Rev	Description	By	Date
A	RESOURCE CONSENT	MA	02/2026

	By	Date
Survey	MAVEN	
Design	SM	03/2026
Drawn	JPK	03/2026
Checked	DJM	

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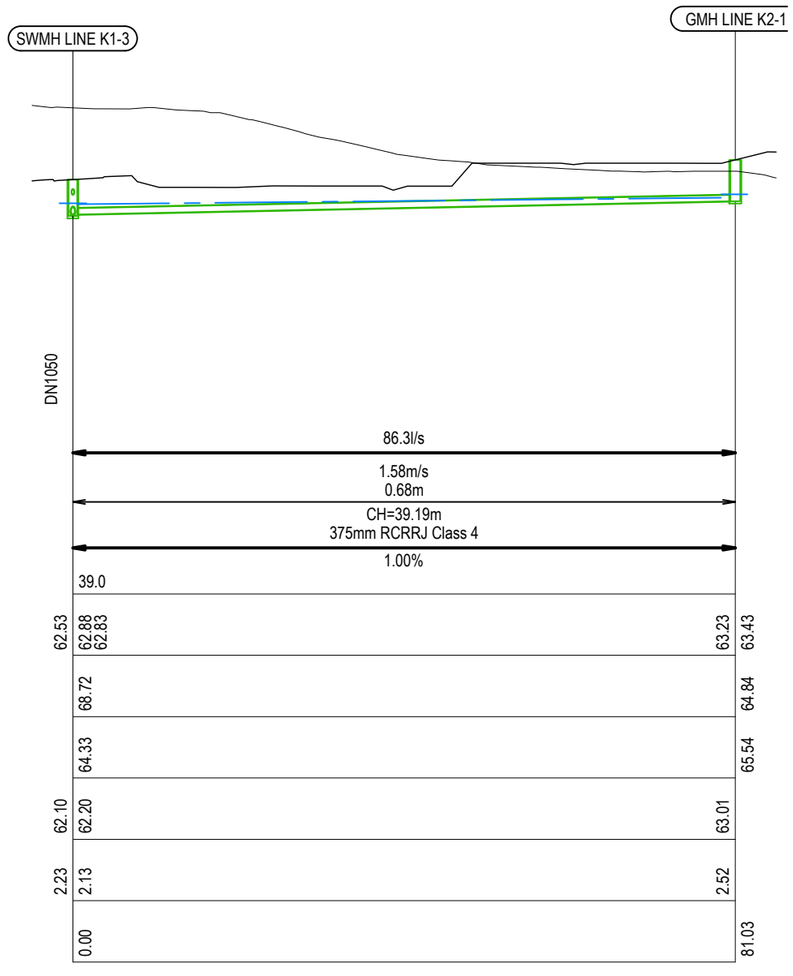
Project
HARLOW LIFESTYLE VILLAGE FOR HARLOW LIFESTYLE LTD

Title
PROPOSED STORMWATER LONGSECTION 18 OF 34

Project no.	411001
Scale	1:1000 @ A3
Cad file	411001-C400-SW.DWG
Drawing no.	C420-18 — Rev A

RESOURCE CONSENT

DATE: 10/13/26 FILE PATH: F:\MAVEN HAMILTON\6. PROJECTS\411001 - HARLOW LIFESTYLE VILLAGE\7. DRAWING\411001-C400-SW.DWG



SW LINE LINE K2

RESOURCE CONSENT

NOTES

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LEGEND

- EX GROUND LEVEL
- PR GROUND LEVEL
- HYDRAULIC GRADE LINE

Rev	Description	By	Date
A	RESOURCE CONSENT	MA	02/2026

	By	Date
Survey	MAVEN	
Design	SM	03/2026
Drawn	JPK	03/2026
Checked	DJM	

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New Zealand

Project

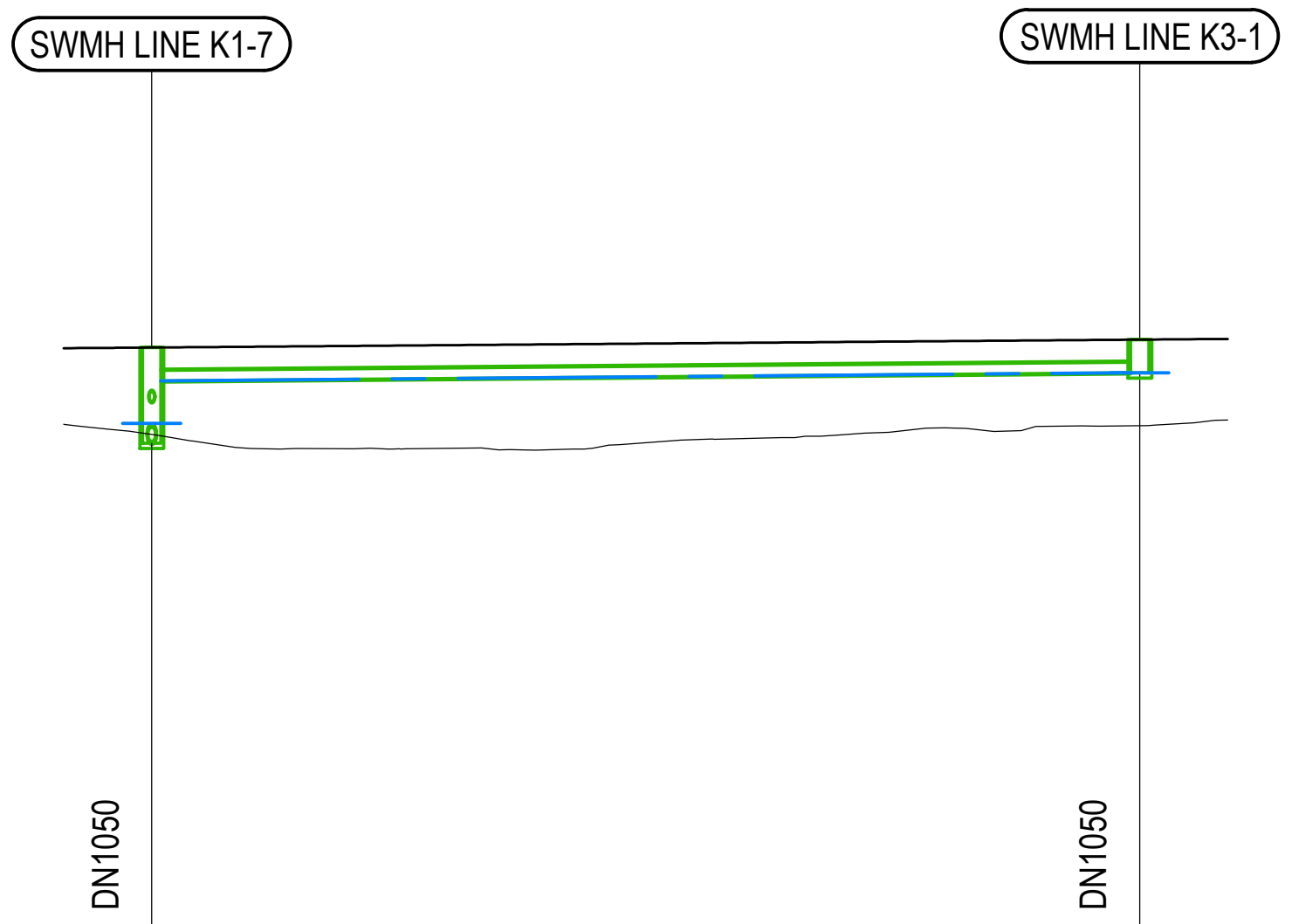
HARLOW LIFESTYLE VILLAGE FOR HARLOW LIFESTYLE LTD

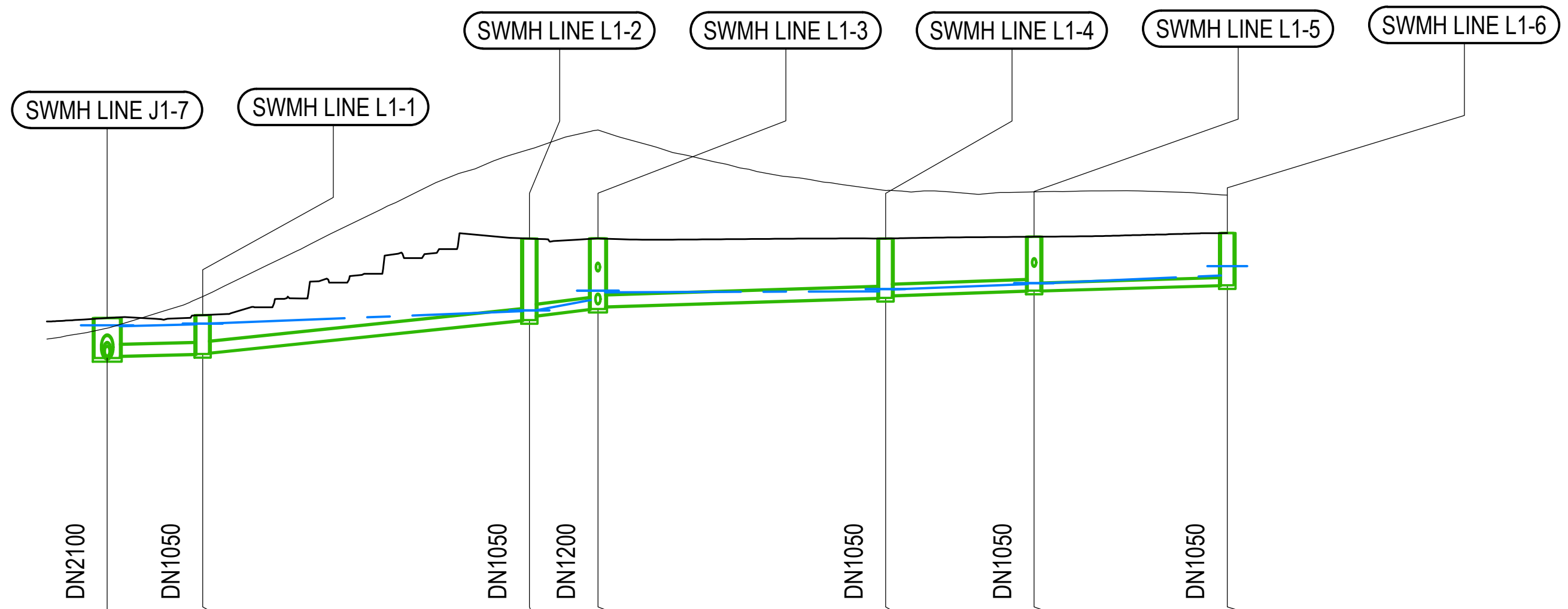
Title

PROPOSED STORMWATER LONGSECTION 19 OF 34

Project no.	411001		
Scale	1:1000 @ A3		
Cad file	411001-C400-SW.DWG		
Drawing no.	C420-19	Rev	A

DATE: 10:13:26 FILE PATH: P:\MAVEN HAMILTON\PROJECTS\411001 - HARLOW LIFESTYLE VILLAGE\7 DRAWING\411001-C420-SW.DWG





SW LINE LINE K3

	K1-7 to K3-1
10YR ARI Q (l/s)	0.0l/s
PIPE VELOCITY (m/s)	0.00m/s
MIN COVER	0.61m
PIPE DETAILS	CH=55.62m 300mm RCRRJ Class 4
Grade	0.41%
DATUM RL =	43.0

HGL LEVELS	68.15	68.39 69.60	69.83	
EXISTING LEVELS		68.08		68.33
DESIGN LEVELS		70.55		70.77
PIPE INVERT	67.83	69.60	69.83	
MH DEPTH INVERT (m)	2.72	0.95	0.94	
CHAINAGE		0.00		56.15

SW LINE LINE L1

	J1-7 to L1-1	L1-1 to L1-2	L1-2 to L1-3	L1-3 to L1-4	L1-4 to L1-5	L1-5 to L1-6
10YR ARI Q (l/s)	284.5l/s	283.5l/s	283.8l/s	152.9l/s	153.2l/s	139.6l/s
PIPE VELOCITY (m/s)	2.06m/s	3.89m/s	3.89m/s	2.12m/s	2.18m/s	1.95m/s
MIN COVER	0.96m	1.02m	2.41m	1.97m	1.74m	1.82m
PIPE DETAILS	CH=4.70m 450mm RCRRJ Class 4	CH=10.10m 450mm RCRRJ Class 4	CH=40.08m 450mm RCRRJ Class 4	CH=63.99m 450mm RCRRJ Class 4	CH=76.31m 450mm RCRRJ Class 6	CH=92.13m 300mm RCRRJ Class 4
Grade	1.00%	5.00%	5.00%	1.50%	1.62%	1.41%
DATUM RL =	32.0					

HGL LEVELS	54.64	54.92 54.89	54.96	54.99	55.51	55.54	55.97	56.36 56.29	56.33	56.43 56.41	56.63	56.67 56.66	56.98	57.37
EXISTING LEVELS		54.80		56.12		62.21		63.02		60.51		60.45		60.32
DESIGN LEVELS		55.22		55.35		58.52		58.52		58.52		58.59		58.75
PIPE INVERT	53.56	53.65	53.73	53.78	55.14	55.32	55.60	55.70	56.06	56.16	56.36	56.36	56.58	
MH DEPTH INVERT (m)	1.66	1.57	1.61	1.56	3.38	3.20	2.92	2.82	2.46	2.36	2.24	2.24	2.17	
CHAINAGE		0.00		7.91		35.00		40.68		64.52		76.84		92.85

NOTES

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LEGEND

EX GROUND LEVEL
PR GROUND LEVEL
HYDRAULIC GRADE LINE

Rev	Description	By	Date
A	RESOURCE CONSENT	MA	02/2026

	By	Date
Survey	MAVEN	
Design	SM	03/2026
Drawn	JPK	03/2026
Checked	DJM	

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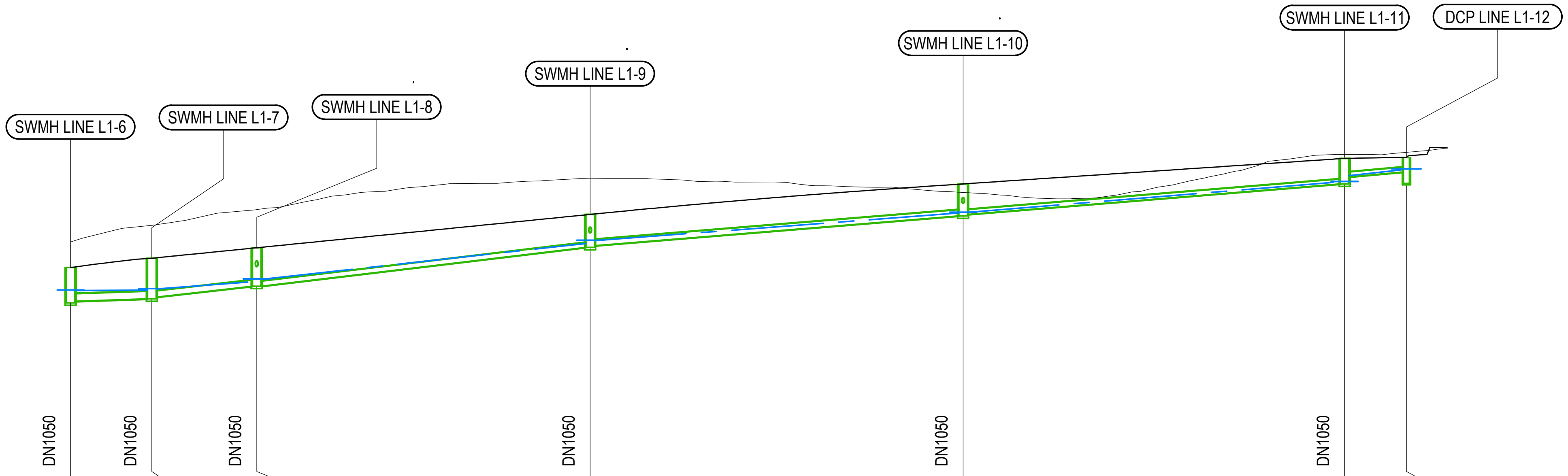
Project
HARLOW LIFESTYLE VILLAGE FOR HARLOW LIFESTYLE LTD

Title
PROPOSED STORMWATER LONGSECTION 20 OF 34

Project no.	411001
Scale	1:1000 @ A3
Cad file	411001-C400-SW.DWG
Drawing no.	C420-20
Rev	A

RESOURCE CONSENT

DATE: 10/13/26 FILE PATH: F:\MAVEN HAMILTON\6. PROJECTS\411001 - HARLOW LIFESTYLE VILLAGE\7. DRAWING\411001-C400-SW.DWG



	Pipe L1-6 to L1-7	Pipe L1-7 to L1-8	Pipe L1-8 to L1-9	Pipe L1-9 to L1-10	Pipe L1-10 to L1-11	Pipe L1-11 to L1-12
10YR ARI Q (l/s)	139.8l/s	140.1l/s	96.3l/s	62.5l/s	29.8l/s	29.9l/s
PIPE VELOCITY (m/s)	2.07m/s	3.31m/s	3.14m/s	2.40m/s	1.98m/s	1.98m/s
MIN COVER	1.60m	1.92m	1.66m	1.53m	1.22m	0.56m
PIPE DETAILS	CH=93.37m 450mm RCRRJ Class 4	CH=115.13m 375mm RCRRJ Class 4	CH=155.97m 300mm RCRRJ Class 4	CH=201.66m 375mm RCRRJ Class 4	CH=248.40m 300mm RCRRJ Class 4	CH=256.13m 300mm RCRRJ Class 4
	1.50%	5.24%	5.82%	4.00%	4.00%	4.00%

DATUM RL = 35.0

	L1-6 in	L1-6 out	L1-7 in	L1-7 out	L1-8 in	L1-8 out	L1-9 in	L1-9 out	L1-10 in	L1-10 out	L1-11 in	L1-11 out	L1-12 in	L1-12 out
HGL LEVELS	56.98	57.37 57.34	57.36	57.46 57.44	57.88	58.05 58.02	60.23	60.42 60.39	62.09	62.13	64.00	64.03 64.38	64.73	64.80
EXISTING LEVELS		60.32		61.33		62.30		64.22		63.35		65.68		65.81
DESIGN LEVELS		58.75		59.32		59.96		62.00		63.87		65.44		65.49
PIPE INVERT	56.58	56.68	56.83	56.93	57.61	57.61	59.98	60.08	61.91	62.00	63.87	64.30	64.60	63.90
MH DEPTH INVERT (m)	2.17	2.07	2.49	2.39	2.36	2.36	2.02	1.92	1.96	1.87	1.57	1.14	0.89	1.59
CHAINAGE		92.85		102.80		115.65		156.50		202.19		248.93		256.49

SW LINE LINE L1

RESOURCE CONSENT

NOTES
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9. MANHOLE SIZES ARE SHOWN ON LONGSECTIONS

LEGEND
- EX GROUND LEVEL
- PR GROUND LEVEL
- HYDRAULIC GRADE LINE

Rev	Description	By	Date
A	RESOURCE CONSENT	MA	02/2026

	By	Date
Survey	MAVEN	
Design	SM	03/2026
Drawn	JPK	03/2026
Checked	DJM	

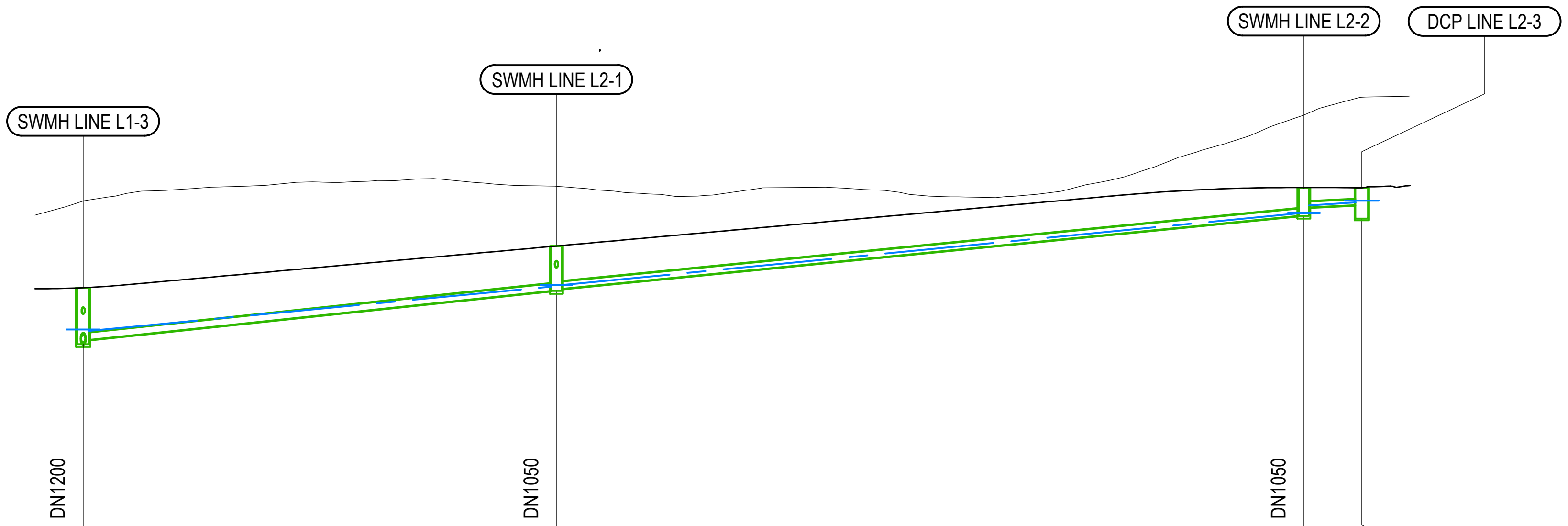
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19 Kaimiro Street, Pukete
Hamilton 3200
New Zealand

Project
HARLOW LIFESTYLE VILLAGE FOR HARLOW LIFESTYLE LTD

Title
PROPOSED STORMWATER LONGSECTION 21 OF 34

Project no.	411001
Scale	1:1000 @ A3
Cad file	411001-C400-SW.DWG
Drawing no.	C420-21
Rev	A

DATE: 10/13/26 FILE PATH: F:\MAVEN HAMILTON\6. PROJECTS\411001 - HARLOW LIFESTYLE VILLAGE\7. DRAWING\411001-C400-SW.DWG



	Ch 0.00 – 49.08	Ch 49.08 – 126.60	Ch 126.60 – 132.60
10YR ARI Q (l/s)	91.0l/s	34.6l/s	34.7l/s
PIPE VELOCITY (m/s)	2.92m/s	2.17m/s	1.61m/s
MIN COVER	1.89m	1.05m	0.57m
PIPE DETAILS	CH=48.55m 375mm RCRRJ Class 4 5.18%	CH=126.08m 375mm RCRRJ Class 4 4.89%	CH=131.95m 300mm CP LEAD 2.00%

DATUM RL = 35.0

HGL LEVELS	55.97	56.36 56.29	58.58	58.67 58.66	62.39	62.40 62.79	62.95	63.03
EXISTING LEVELS		63.02		63.78		67.48		68.39
DESIGN LEVELS		58.52		60.68		63.71		63.70
PIPE INVERT	55.60	55.82	58.36	58.46	62.25	62.68	62.80	62.10
MH DEPTH INVERT (m)	2.92	2.70	2.32	2.22	1.46	1.03	0.90	1.60
CHAINAGE		0.00		49.08		126.60		132.60

SW LINE LINE L2

NOTES
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LEGEND
EX GROUND LEVEL
PR GROUND LEVEL
HYDRAULIC GRADE LINE

Rev	Description	By	Date
A	RESOURCE CONSENT	MA	02/2026

	By	Date
Survey	MAVEN	
Design	SM	03/2026
Drawn	JPK	03/2026
Checked	DJM	

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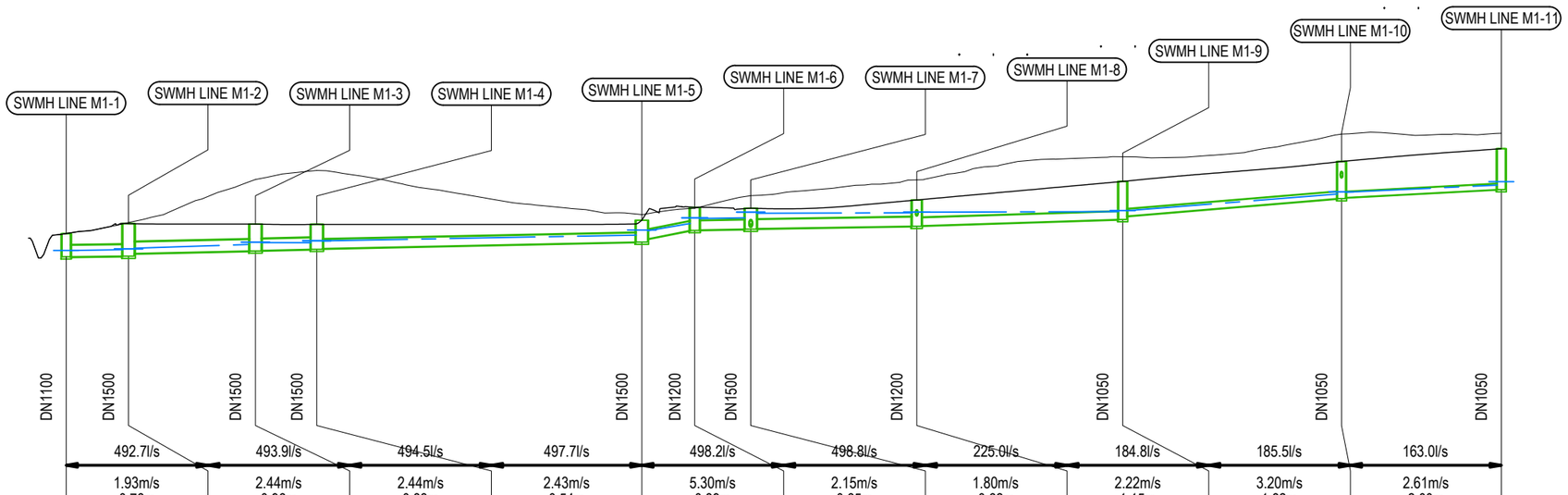
Project
HARLOW LIFESTYLE VILLAGE FOR HARLOW LIFESTYLE LTD

Title
PROPOSED STORMWATER LONGSECTION 22 OF 34

Project no.	411001
Scale	1:1000 @ A3
Cad file	411001-C400-SW.DWG
Drawing no.	C420-22 Rev A

RESOURCE CONSENT

DATE: 10/13/26 FILE PATH: F:\MAVEN HAMILTON\6. PROJECTS\411001 - HARLOW LIFESTYLE VILLAGE\7. DRAWING\411001-C400-SW.DWG



10YR ARI Q (l/s)		492.7l/s	493.9l/s	494.5l/s	497.7l/s	498.2l/s	498.8l/s	225.0l/s	184.8l/s	185.5l/s	163.0l/s	
PIPE VELOCITY (m/s)		1.93m/s	2.44m/s	2.44m/s	2.43m/s	5.30m/s	2.15m/s	1.80m/s	2.22m/s	3.20m/s	2.61m/s	
MIN COVER		0.76m	0.96m	0.83m	0.54m	0.89m	0.65m	0.62m	1.15m	1.82m	2.00m	
PIPE DETAILS		CH=-7.20m 750mm RCRRJ Class 4	CH=16.54m 750mm RCRRJ Class 4	CH=24.66m 750mm RCRRJ Class 4	CH=67.65m 600mm RCRRJ Class 4	CH=74.82m 600mm RCRRJ Class 4	CH=80.70m 600mm RCRRJ Class 4	CH=88.95m 600mm RCRRJ Class 4	CH=105.39m 525mm RCRRJ Class 4	CH=132.56m 450mm RCRRJ Class 4	CH=161.52m 375mm RCRRJ Class 4	
		0.53%	1.00%	1.00%	1.00%	8.00%	0.75%	0.75%	1.50%	4.00%	2.50%	
DATUM RL =		24.0										
HGL LEVELS	46.82	46.87	46.92 46.97	47.22	47.36 47.34	47.33	47.46 47.45	47.83	48.17 48.12	48.60	48.97 48.93	48.97
EXISTING LEVELS		47.93	48.66	51.51	52.10	49.19	49.60	50.44	51.48	53.01	54.51	54.56
DESIGN LEVELS		47.93	48.59	48.56	48.54	48.81	49.66	49.61	50.15	51.38	52.69	53.54
PIPE INVERT	46.40	46.40	46.44	46.62	46.79	46.82	46.90	46.94	47.37	47.58	48.14	48.17
		48.23	48.26	48.42	48.45	48.86	49.09	50.24	50.31	50.84		
MH DEPTH INVERT (m)	1.53	1.53	2.15	1.97	1.77	1.74	1.64	1.60	1.44	1.23	1.52	1.49
		1.38	1.35	1.73	1.70	2.52	2.29	2.45	2.38	2.70		
CHAINAGE		-7.75	0.50	17.29	25.41	68.42	75.42	82.83	104.79	132.04	160.99	182.13

SW LINE LINE M1

RESOURCE CONSENT

NOTES

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LEGEND

- EX GROUND LEVEL
- PR GROUND LEVEL
- HYDRAULIC GRADE LINE

Rev	Description	By	Date
A	RESOURCE CONSENT	MA	02/2026

	By	Date
Survey	MAVEN	
Design	SM	03/2026
Drawn	JPK	03/2026
Checked	DJM	

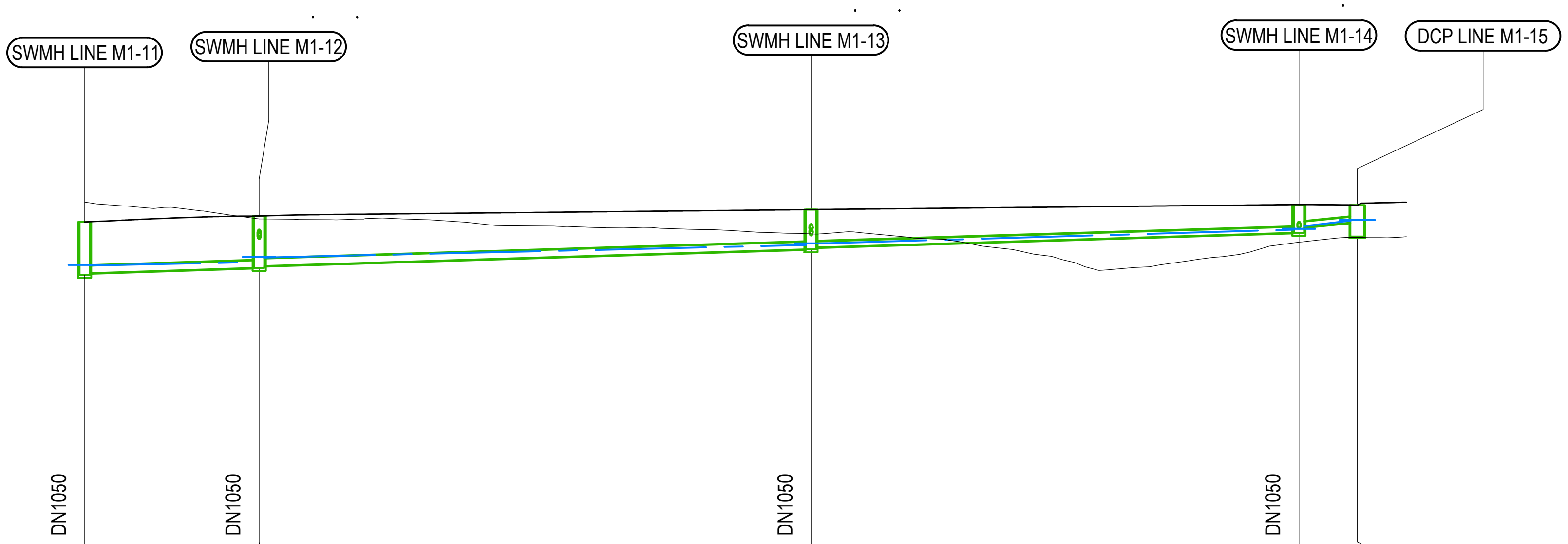
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19 Kaimiro Street, Pukete
Hamilton 3200
New Zealand

Project
HARLOW LIFESTYLE VILLAGE FOR HARLOW LIFESTYLE LTD

Title
PROPOSED STORMWATER LONGSECTION 23 OF 34

Project no.	411001		
Scale	1:1000 @ A3		
Cad file	411001-C400-SW.DWG		
Drawing no.	C420-23	Rev	A

DATE 01/26 FILEPATH P:\MAVEN-HAMILTON\6 PROJECTS\411001 - HARLOW LIFESTYLE VILLAGE\7 DRAWING\411001-C400-SW.DWG



	M1-11 to M1-12	M1-12 to M1-13	M1-13 to M1-14	M1-14 to M1-15
10YR ARI Q (l/s)	163.4l/s	92.4l/s	42.7l/s	20.8l/s
PIPE VELOCITY (m/s)	2.14m/s	1.87m/s	1.54m/s	1.79m/s
MIN COVER	2.20m	1.61m	1.10m	0.57m
PIPE DETAILS	CH=182.66m 375mm RCRRJ Class 4 1.50%	CH=255.59m 375mm RCRRJ Class 4 1.50%	CH=305.28m 300mm RCRRJ Class 4 1.50%	CH=311.04m 300mm CP LEAD 4.00%

DATUM RL = 26.0

		M1-11		M1-12		M1-13		M1-14		M1-15
HGL LEVELS	51.14	51.36 51.33	51.50	51.76 51.73	52.37	52.45 52.44	53.15	53.20 53.33	53.61	53.65
EXISTING LEVELS		54.56		53.70		52.94		52.52		52.76
DESIGN LEVELS		53.54		53.85		54.18		54.43		54.40
PIPE INVERT	50.84	50.94	51.21	51.31	52.15	52.25	52.99	53.27	53.51	52.81
MH DEPTH INVERT (m)	2.70	2.60	2.64	2.54	2.03	1.93	1.44	1.16	0.89	1.59
CHAINAGE		182.13		199.91		256.12		305.81		311.75

SW LINE LINE M1

NOTES
1. ALL WORKS TO BE IN ACCORDANCE WITH WAIKATO REGIONAL INFRASTRUCTURE TECHNICAL SPECIFICATIONS.
2. CO-ORDINATES IN TERMS OF NZ GEODETIC DATUM MT EDEN 2000. LEVELS IN TERMS OF THE NEW ZEALAND VERTICAL DATUM 2016. CONVERSION TO MOTURIKI 1953 CAN BE ACHIEVED BY ADDING 0.2594M.
3. IT IS THE CONTRACTORS RESPONSIBILITY TO LOCATE ALL SERVICES THAT MAY BE AFFECTED BY HIS OPERATIONS.
4. ALL CONCRETE SW PIPE TO BE INSTALLED IN ACCORDANCE WITH AS/NZS 3725:2007 FOR BURIED CONCRETE PIPES AND AS/NZ 4058:2007 FOR PRECAST CONCRETE PIPES (PRESSURE AND NON-PRESSURE) AS STIPULATED IN THE RITS 2018
5. APPROVED HARDFILL IS TO BE USED IN BACKFILLING OF ALL STORMWATER LINES WITHIN THE ROAD RESERVE.
6. HEAVY DUTY MANHOLE LIDS AND FRAMES TO BE USED IN TRAFFICKED AREAS.
7. ALL SINGLE CESSPIT LEADS SHALL BE Ø225mm, AND DOUBLE Ø300mm AT MINIMUM 1.0% GRADE
8. ALL LINES TO BE ABANDONED SHALL BE SEALED AT EACH END. TIMING OF ALL SEALING TO BE COORDINATED WITH COUNCIL STAFF.
9. MANHOLE SIZES ARE SHOWN ON LONGSECTIONS

LEGEND
- EX GROUND LEVEL
- PR GROUND LEVEL
- HYDRAULIC GRADE LINE

Rev	Description	By	Date
A	RESOURCE CONSENT	MA	02/2026

	By	Date
Survey	MAVEN	
Design	SM	03/2026
Drawn	JPK	03/2026
Checked	DJM	

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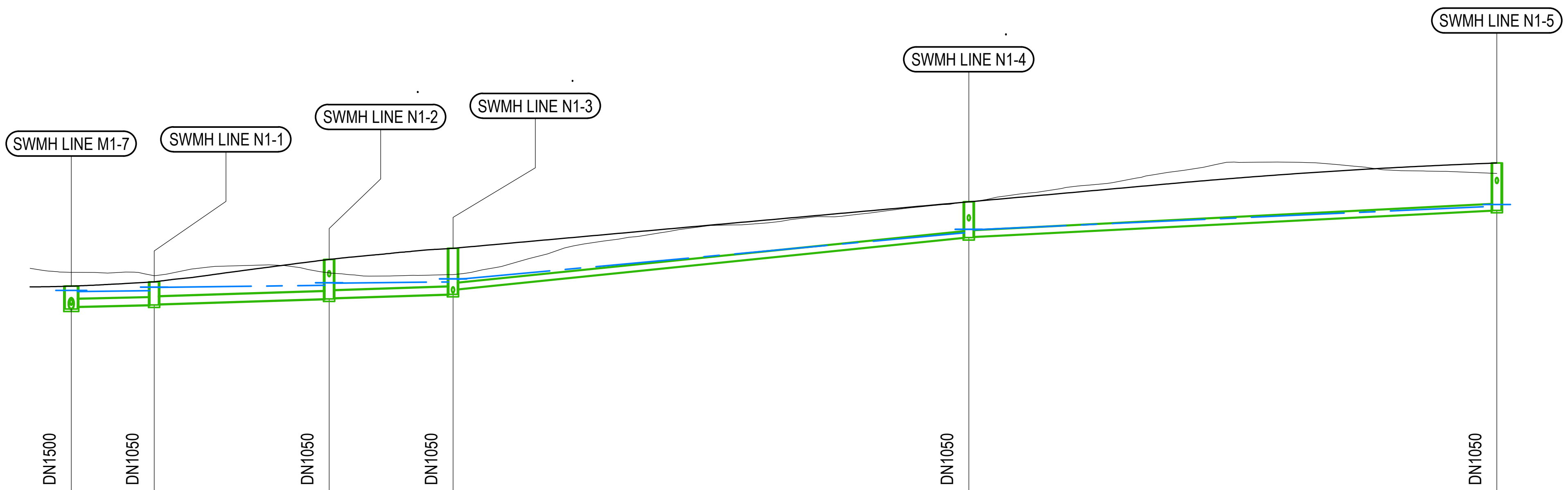
Project
HARLOW LIFESTYLE VILLAGE FOR HARLOW LIFESTYLE LTD

Title
PROPOSED STORMWATER LONGSECTION 24 OF 34

Project no.	411001
Scale	1:1000 @ A3
Cad file	411001-C400-SW.DWG
Drawing no.	C420-24 Rev A

RESOURCE CONSENT

DATE: 10/13/26 FILE PATH: F:\MAVEN HAMILTON\6. PROJECTS\411001 - HARLOW LIFESTYLE VILLAGE\7. DRAWING\411001-C400-SW.DWG



	M1-7 to N1-1	N1-1 to N1-2	N1-2 to N1-3	N1-3 to N1-4	N1-4 to N1-5
10YR ARI Q (l/s)	230.2l/s	230.9l/s	204.4l/s	158.0l/s	109.2l/s
PIPE VELOCITY (m/s)	2.00m/s	2.35m/s	2.28m/s	3.36m/s	2.36m/s
MIN COVER	0.76m	0.89m	1.87m	1.73m	1.73m
PIPE DETAILS	CH=-9.24m 450mm RCRRJ Class 4	CH=0.53m 450mm RCRRJ Class 4	CH=21.74m 450mm RCRRJ Class 4	CH=98.22m 375mm RCRRJ Class 4	CH=99.27m 375mm RCRRJ Class 4
	1.00%	1.50%	1.50%	5.00%	2.50%

DATUM RL = 26.0

	SWMH LINE M1-7	SWMH LINE N1-1	SWMH LINE N1-2	SWMH LINE N1-3	SWMH LINE N1-4	SWMH LINE N1-5
HGL LEVELS	48.97 / 49.35 49.28	49.34 / 49.55 49.53	49.66 / 49.81 49.79	49.86 / 50.05 50.02	52.84 / 53.05 53.02	54.44 / 54.55
EXISTING LEVELS	50.44	50.24	50.41	50.30	54.71	56.43
DESIGN LEVELS	49.61	49.87	51.23	51.90	54.71	57.06
PIPE INVERT	48.23 / 48.37	48.47 / 48.52	48.84 / 48.89	49.11 / 49.42	52.55 / 52.60	54.20
MH DEPTH INVERT (m)	1.38 / 1.24	1.40 / 1.35	2.39 / 2.34	2.79 / 2.48	2.17 / 2.12	2.87
CHAINAGE	-10.05	0.00	21.21	36.23	98.75	162.75

SW LINE LINE N1

NOTES
1. ALL WORKS TO BE IN ACCORDANCE WITH WAIKATO REGIONAL INFRASTRUCTURE TECHNICAL SPECIFICATIONS.
2. CO-ORDINATES IN TERMS OF NZ GEODETIC DATUM MT EDEN 2000. LEVELS IN TERMS OF THE NEW ZEALAND VERTICAL DATUM 2016. CONVERSION TO MOTURIKI 1953 CAN BE ACHIEVED BY ADDING 0.2594M.
3. IT IS THE CONTRACTORS RESPONSIBILITY TO LOCATE ALL SERVICES THAT MAY BE AFFECTED BY HIS OPERATIONS.
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5. APPROVED HARDFILL IS TO BE USED IN BACKFILLING OF ALL STORMWATER LINES WITHIN THE ROAD RESERVE.
6. HEAVY DUTY MANHOLE LIDS AND FRAMES TO BE USED IN TRAFFICKED AREAS.
7. ALL SINGLE CESSPIT LEADS SHALL BE Ø225mm, AND DOUBLE Ø300mm AT MINIMUM 1.0% GRADE
8. ALL LINES TO BE ABANDONED SHALL BE SEALED AT EACH END. TIMING OF ALL SEALING TO BE COORDINATED WITH COUNCIL STAFF.
9. MANHOLE SIZES ARE SHOWN ON LONGSECTIONS

LEGEND
EX GROUND LEVEL
PR GROUND LEVEL
HYDRAULIC GRADE LINE

Rev	Description	By	Date
A	RESOURCE CONSENT	MA	02/2026

	By	Date
Survey	MAVEN	
Design	SM	03/2026
Drawn	JPK	03/2026
Checked	DJM	

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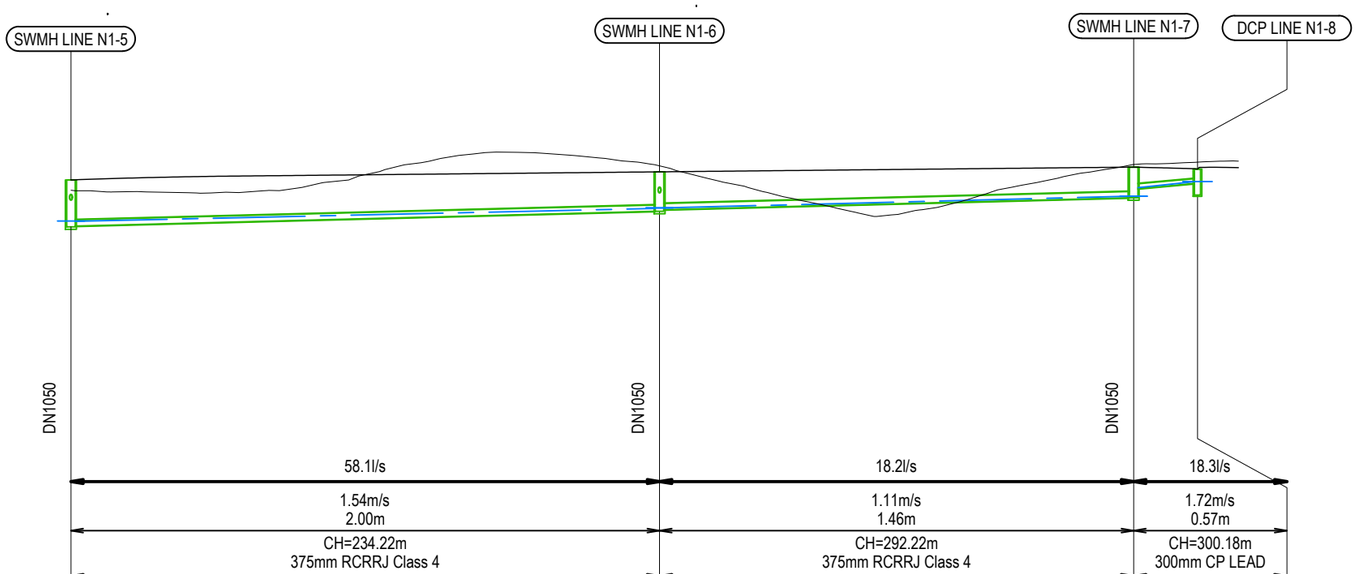
Project
HARLOW LIFESTYLE VILLAGE FOR HARLOW LIFESTYLE LTD

Title
PROPOSED STORMWATER LONGSECTION 25 OF 34

Project no.	411001
Scale	1:1000 @ A3
Cad file	411001-C400-SW.DWG
Drawing no.	C420-25 — Rev A

RESOURCE CONSENT

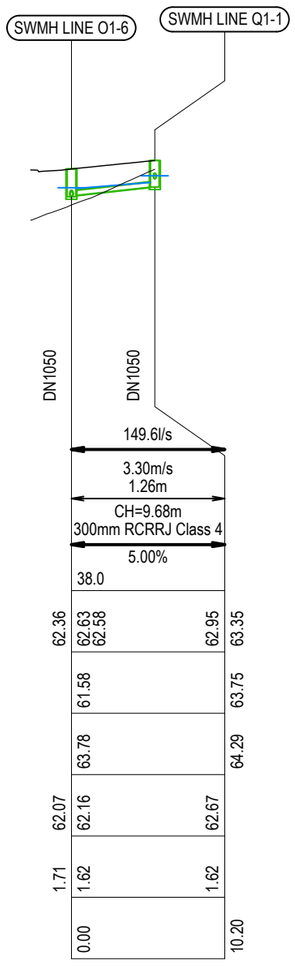
DATE: 10/13/26 FILE PATH: F:\MAVEN HAMILTON\6. PROJECTS\411001 - HARLOW LIFESTYLE VILLAGE\7. DRAWING\411001-C400-SW.DWG



10YR ARI Q (l/s)
PIPE VELOCITY (m/s)
MIN COVER
PIPE DETAILS

DATUM RL = 30.0												
HGL LEVELS	54.44	54.55	54.54	55.32	55.36	56.07	56.59	56.95	56.97			
EXISTING LEVELS		56.43			57.92		58.01		58.15			
DESIGN LEVELS		57.06			57.56		57.85		57.73			
PIPE INVERT	54.20	54.25		55.15	55.25	55.97	56.53	56.84	56.14			
MH DEPTH INVERT (m)	2.87	2.82		2.41	2.31	1.88	1.32	0.89	1.59			
CHAINAGE		162.75			234.75		292.75		300.56			

SW LINE LINE N1



SW LINE LINE Q1

NOTES

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9. MANHOLE SIZES ARE SHOWN ON LONGSECTIONS

LEGEND

- EX GROUND LEVEL
- PR GROUND LEVEL
- HYDRAULIC GRADE LINE

Rev	Description	By	Date
A	RESOURCE CONSENT	MA	02/2026

	By	Date
Survey	MAVEN	
Design	SM	03/2026
Drawn	JPK	03/2026
Checked	DJM	

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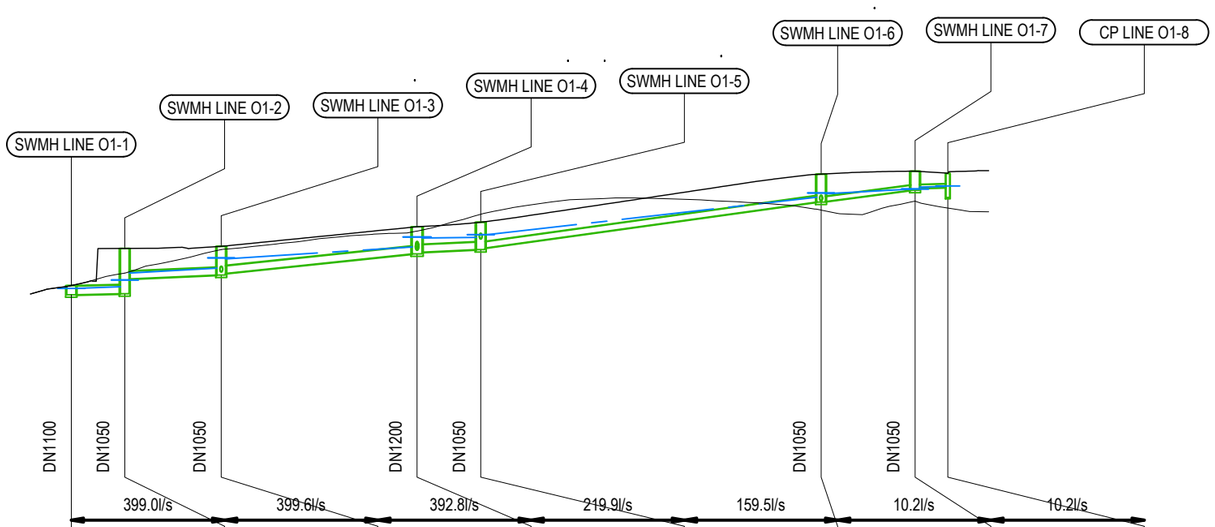
Project
HARLOW LIFESTYLE VILLAGE FOR HARLOW LIFESTYLE LTD

Title
PROPOSED STORMWATER LONGSECTION 26 OF 34

Project no.	411001
Scale	1:1000 @ A3
Cad file	411001-C400-SW.DWG
Drawing no.	C420-26 Rev A

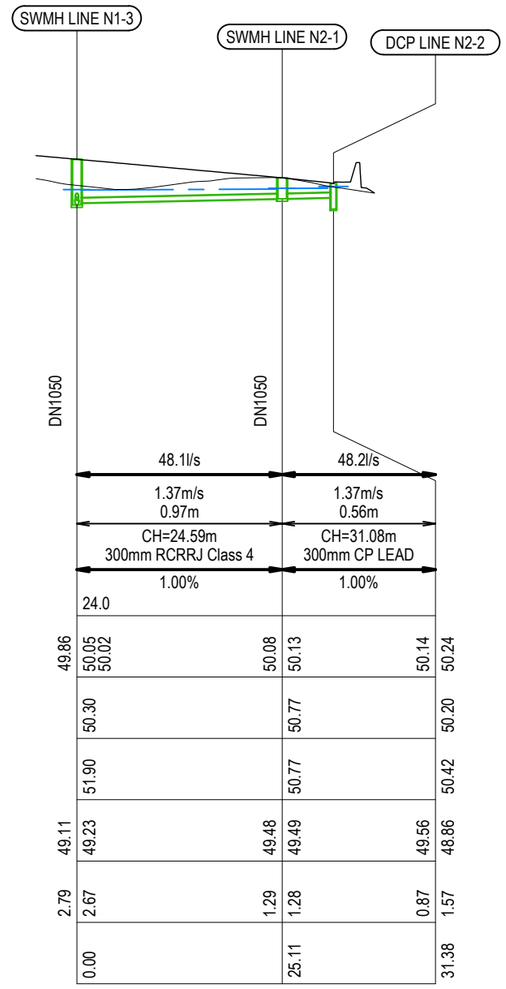
RESOURCE CONSENT

DATE: 10/12/25 FILE PATH: P:\MAVEN HAMILTON\0_PROJECTS\411001 - HARLOW LIFESTYLE VILLAGE\1 DRAWING\411001-C400-SW.DWG



DATUM RL =														
HGL LEVELS	56.79	56.89	57.31	57.73	58.03	58.66	58.59	59.32	59.93	59.87	59.91	60.08	60.06	62.36	62.63	62.58	62.87	62.98	63.03	63.05
EXISTING LEVELS		56.96		57.73		59.16		60.29			61.32			61.58			62.13			61.70
DESIGN LEVELS		56.96		59.23		59.36		60.56			60.84			63.78			63.96			63.82
PIPE INVERT	56.40	56.40	56.46	57.37	57.61	57.71	58.90	59.00	59.16	59.26	62.07	62.10	62.79	62.91	62.95	62.35				
MH DEPTH INVERT (m)	0.57	0.57	2.77	1.86	1.75	1.65	1.65	1.55	1.68	1.58	1.71	1.68	1.17	1.05	0.87	1.47				
CHAINAGE		0.00		6.54		18.34		42.30			50.08			91.72			103.22			107.22

SW LINE LINE O1



SW LINE LINE N2

NOTES

1. ALL WORKS TO BE IN ACCORDANCE WITH WAIKATO REGIONAL INFRASTRUCTURE TECHNICAL SPECIFICATIONS.
2. CO-ORDINATES IN TERMS OF NZ GEODETIC DATUM MT EDEN 2000. LEVELS IN TERMS OF THE NEW ZEALAND VERTICAL DATUM 2016. CONVERSION TO MOTURIKI 1953 CAN BE ACHIEVED BY ADDING 0.2594M.
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9. MANHOLE SIZES ARE SHOWN ON LONGSECTIONS

LEGEND

- EX GROUND LEVEL
- PR GROUND LEVEL
- HYDRAULIC GRADE LINE

Rev	Description	By	Date
A	RESOURCE CONSENT	MA	02/2026

	By	Date
Survey	MAVEN	
Design	SM	03/2026
Drawn	JPK	03/2026
Checked	DJM	

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Project

HARLOW LIFESTYLE VILLAGE FOR HARLOW LIFESTYLE LTD

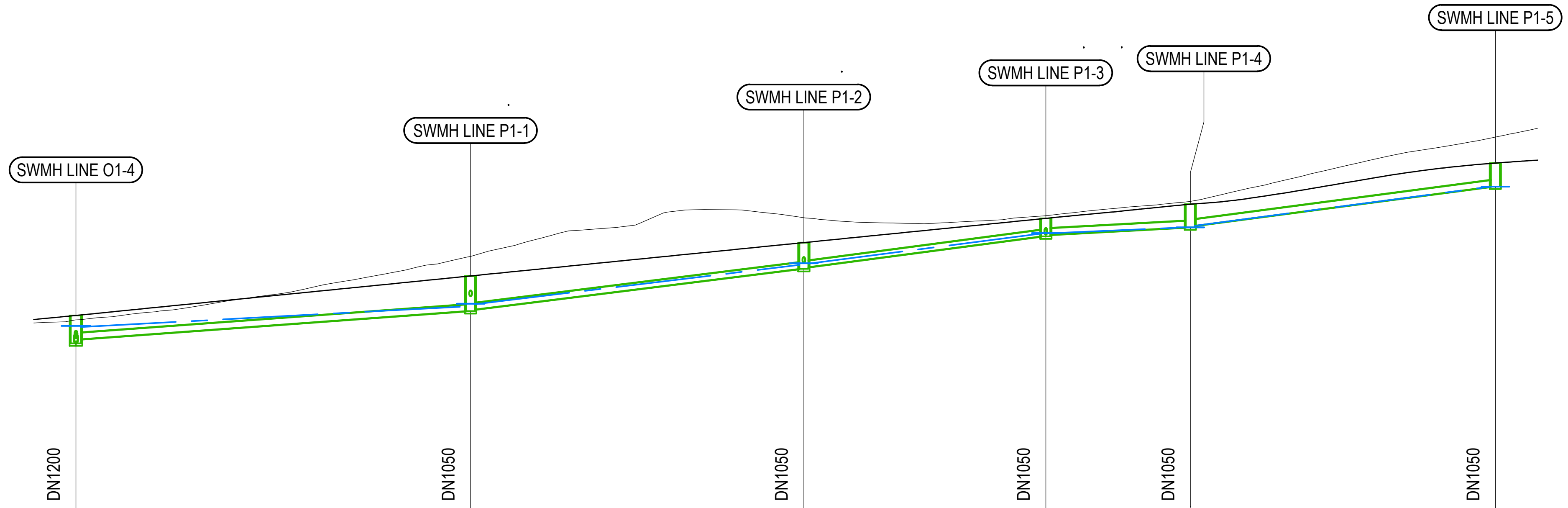
Title

PROPOSED STORMWATER LONGSECTION 27 OF 34

Project no.	411001
Scale	1:1000 @ A3
Cad file	411001-C400-SW.DWG
Drawing no.	C420-27 Rev A

RESOURCE CONSENT

DATE: 10:13:25 FILE PATH: F:\MAVEN HAMILTON\ PROJECTS\411001 - HARLOW LIFESTYLE VILLAGE\7 DRAWING\411001-C400-SW.DWG



	O1-4 → P1-1	P1-1 → P1-2	P1-2 → P1-3	P1-3 → P1-4	P1-4 → P1-5
10YR ARI Q (l/s)	144.5l/s	102.4l/s	52.8l/s	0.0l/s	0.0l/s
PIPE VELOCITY (m/s)	2.89m/s	3.20m/s	2.69m/s	0.00m/s	0.00m/s
MIN COVER	1.03m	1.12m	0.63m	0.58m	0.78m
PIPE DETAILS	CH=0.60m 375mm RCRRJ Class 4 3.56%	CH=85.82m 375mm RCRRJ Class 4 6.08%	CH=114.52m 375mm RCRRJ Class 4 6.37%	CH=115.57m 375mm RCRRJ Class 4 2.51%	CH=138.42m 375mm RCRRJ Class 4 6.41%

DATUM RL = 38.0

	O1-4	P1-1	P1-2	P1-3	P1-4	P1-5
HGL LEVELS	59.32 / 59.93 59.87	61.09 / 61.25 61.23	63.55 / 63.65 63.63	65.41 / 65.43	65.77 / 65.87	68.19
EXISTING LEVELS	60.29	64.06	66.35	66.47	67.32	71.13
DESIGN LEVELS	60.56	62.90	64.88	66.31	67.15	69.59
PIPE INVERT	58.90 / 59.15	60.82 / 60.92	63.32 / 63.42	65.24 / 65.34	65.77 / 65.87	68.19
MH DEPTH INVERT (m)	1.65 / 1.41	2.08 / 1.98	1.56 / 1.46	1.07 / 0.97	1.38 / 1.28	1.40
CHAINAGE	0.00	46.81	86.34	115.04	132.18	168.37

SW LINE LINE P1

NOTES
1. ALL WORKS TO BE IN ACCORDANCE WITH WAIKATO REGIONAL INFRASTRUCTURE TECHNICAL SPECIFICATIONS.
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9. MANHOLE SIZES ARE SHOWN ON LONGSECTIONS

LEGEND
- EX GROUND LEVEL
- PR GROUND LEVEL
- HYDRAULIC GRADE LINE

Rev	Description	By	Date
A	RESOURCE CONSENT	MA	02/2026

	By	Date
Survey	MAVEN	
Design	SM	03/2026
Drawn	JPK	03/2026
Checked	DJM	

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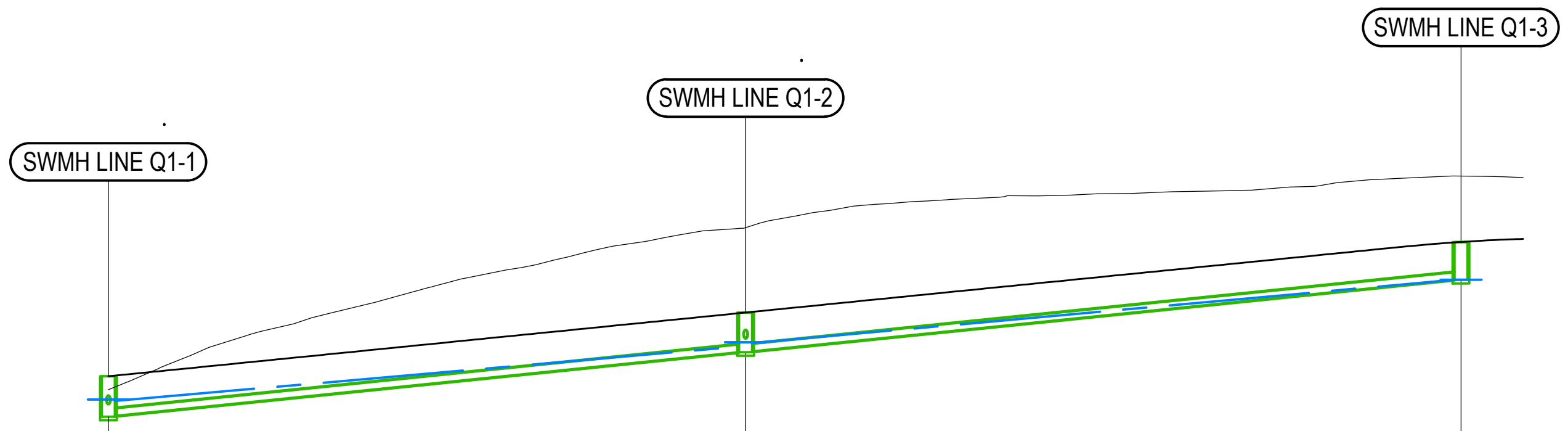
Project
HARLOW LIFESTYLE VILLAGE FOR HARLOW LIFESTYLE LTD

Title
PROPOSED STORMWATER LONGSECTION 28 OF 34

Project no.	411001
Scale	1:1000 @ A3
Cad file	411001-C400-SW.DWG
Drawing no.	C420-28 Rev A

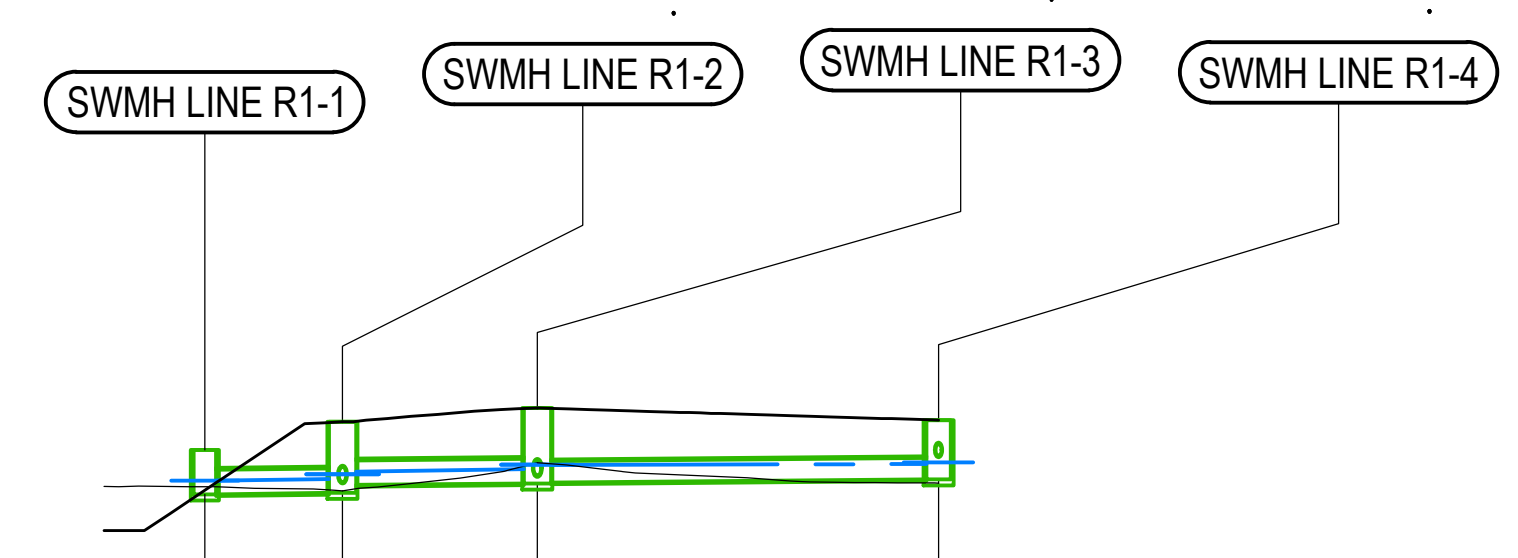
RESOURCE CONSENT

DATE: 10/13/26 FILE PATH: F:\MAVEN HAMILTON\6. PROJECTS\411001 - HARLOW LIFESTYLE VILLAGE\7. DRAWING\411001-C400-SW.DWG



	SWMH LINE Q1-1 (in)	SWMH LINE Q1-1 (out)	SWMH LINE Q1-2 (in)	SWMH LINE Q1-2 (out)	SWMH LINE Q1-3 (in)	SWMH LINE Q1-3
Manhole		DN1050		DN1050		DN1050
10YR ARI Q (l/s)		81.6l/s		0.0l/s		
PIPE VELOCITY (m/s)		2.84m/s		0.00m/s		
MIN COVER		1.23m		1.17m		
PIPE DETAILS		CH=60.99m 300mm RCRRJ Class 4 5.00%		CH=118.59m 300mm RCRRJ Class 4 5.00%		
DATUM RL =		41.0				
HGL LEVELS	62.95	63.35 63.30	65.49	65.66 65.63	68.18	
EXISTING LEVELS		63.75		70.27		72.35
DESIGN LEVELS		64.29		66.86		69.70
PIPE INVERT	62.67	62.70	65.27	65.30	68.18	
MH DEPTH INVERT (m)	1.62	1.59	1.59	1.56	1.52	
CHAINAGE		10.20		61.51		119.11

SW LINE LINE Q1



	SWMH LINE R1-1 (in)	SWMH LINE R1-1 (out)	SWMH LINE R1-2 (in)	SWMH LINE R1-2 (out)	SWMH LINE R1-3 (in)	SWMH LINE R1-3 (out)	SWMH LINE R1-4 (in)	SWMH LINE R1-4
Manhole		DN1100		DN1350		DN1350		DN1200
10YR ARI Q (l/s)		272.6l/s		262.6l/s		185.1l/s		
PIPE VELOCITY (m/s)		1.62m/s		1.48m/s		1.35m/s		
MIN COVER		-0.37m		0.92m		0.90m		
PIPE DETAILS		CH=0.55m 600mm RCRRJ Class 4 0.50%		CH=7.51m 600mm RCRRJ Class 4 0.40%		CH=35.80m 525mm RCRRJ Class 4 0.40%		
DATUM RL =		21.0						
HGL LEVELS	46.74		46.78	46.90 46.96	47.03	47.14 47.13	47.15	47.19
EXISTING LEVELS		46.59		46.49		47.19		46.68
DESIGN LEVELS		47.50		48.20		48.54		48.24
PIPE INVERT	46.40	46.40	46.43	46.63	46.67	46.69	46.77	
MH DEPTH INVERT (m)	1.10	1.10	1.76	1.57	1.87	1.85	1.47	
CHAINAGE		0.00		6.83		16.50		36.40

SW LINE LINE R1

RESOURCE CONSENT

DATE: 10/13/26 FILE PATH: F:\MAVEN HAMILTON\6. PROJECTS\411001 - HARLOW LIFESTYLE VILLAGE\7. DRAWING\411001-C400-SW.DWG

NOTES
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7. ALL SINGLE CESSPIT LEADS SHALL BE Ø225mm, AND DOUBLE Ø300mm AT MINIMUM 1.0% GRADE
8. ALL LINES TO BE ABANDONED SHALL BE SEALED AT EACH END. TIMING OF ALL SEALING TO BE COORDINATED WITH COUNCIL STAFF.
9. MANHOLE SIZES ARE SHOWN ON LONGSECTIONS

LEGEND
- EX GROUND LEVEL
- PR GROUND LEVEL
- HYDRAULIC GRADE LINE

Rev	Description	By	Date
A	RESOURCE CONSENT	MA	02/2026

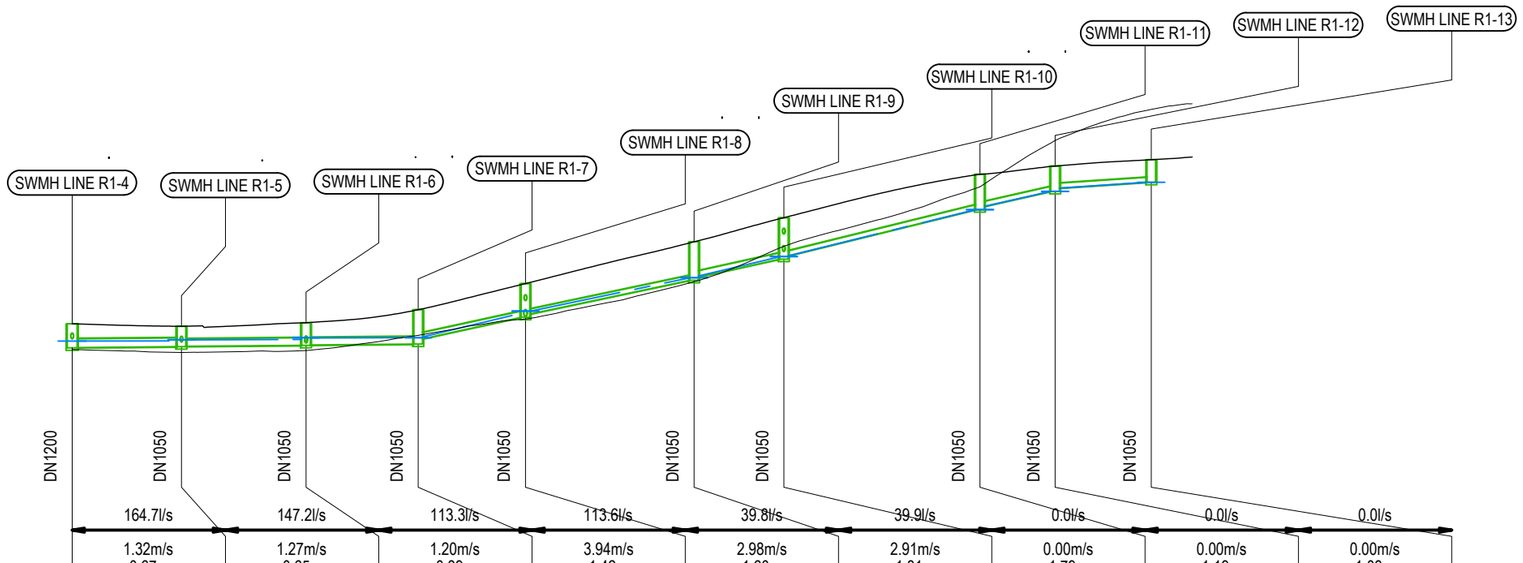
	By	Date
Survey	MAVEN	
Design	SM	03/2026
Drawn	JPK	03/2026
Checked	DJM	

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19 Kaimiro Street, Pukete
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Project
HARLOW LIFESTYLE VILLAGE FOR HARLOW LIFESTYLE LTD

Title
PROPOSED STORMWATER LONGSECTION 29 OF 34

Project no.	411001		
Scale	1:1000 @ A3		
Cad file	411001-C400-SW.DWG		
Drawing no.	C420-29	Rev	A



10YR ARI Q (l/s)		164.7l/s	147.2l/s	113.3l/s	113.6l/s	39.8l/s	39.9l/s	0.0l/s	0.0l/s	0.0l/s	
PIPE VELOCITY (m/s)		1.32m/s	1.27m/s	1.20m/s	3.94m/s	2.98m/s	2.91m/s	0.00m/s	0.00m/s	0.00m/s	
MIN COVER		0.67m	0.65m	0.89m	1.42m	1.60m	1.81m	1.79m	1.19m	1.03m	
		CH=49.24m	CH=52.55m	CH=65.53m	CH=79.61m	CH=92.37m	CH=113.00m	CH=146.92m	CH=156.12m	CH=157.17m	
PIPE DETAILS		525mm RCRRJ Class 4	450mm RCRRJ Class 4	450mm RCRRJ Class 4	375mm RCRRJ Class 4	300mm RCRRJ Class 4	375mm RCRRJ Class 4	300mm RCRRJ Class 4	300mm RCRRJ Class 4	300mm RCRRJ Class 4	
		0.40%	0.40%	0.40%	10.00%	10.00%	10.00%	11.76%	10.00%	3.00%	
DATUM RL =		27.0									
HGL LEVELS	47.15	47.19 47.18	47.26 47.26	47.39 47.38	47.44	49.02 49.01	51.06 51.16	52.35 52.39	55.42	56.54	56.89
		47.20	47.28	47.39	48.88	51.05	52.34	55.22	56.34	56.89	
EXISTING LEVELS		46.68	46.49	46.60	47.54	48.53	50.82	52.98	56.62	59.45	61.35
DESIGN LEVELS		48.24	48.09	48.31	49.10	50.70	53.25	54.73	57.38	57.89	58.27
PIPE INVERT	46.77	46.79	46.86	46.94	47.00	47.32	48.63	48.83	50.90	51.10	52.19
		46.84	46.92	47.00	47.32	48.63	48.83	50.90	51.10	52.19	52.39
											55.22
MH DEPTH INVERT (m)	1.47	1.45	1.22	1.36	1.78	1.86	2.16	2.33	1.96	1.35	
		1.24	1.38	2.10	2.06	2.36	2.53	2.16	1.55	1.38	
CHAINAGE		36.40	49.77	65.01	78.73	91.85	112.48	123.45	147.45	156.64	168.40

SW LINE LINE R1

RESOURCE CONSENT

NOTES

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9. MANHOLE SIZES ARE SHOWN ON LONGSECTIONS

LEGEND

- EX GROUND LEVEL
- PR GROUND LEVEL
- HYDRAULIC GRADE LINE

Rev	Description	By	Date
A	RESOURCE CONSENT	MA	02/2026

	By	Date
Survey	MAVEN	
Design	SM	03/2026
Drawn	JPK	03/2026
Checked	DJM	

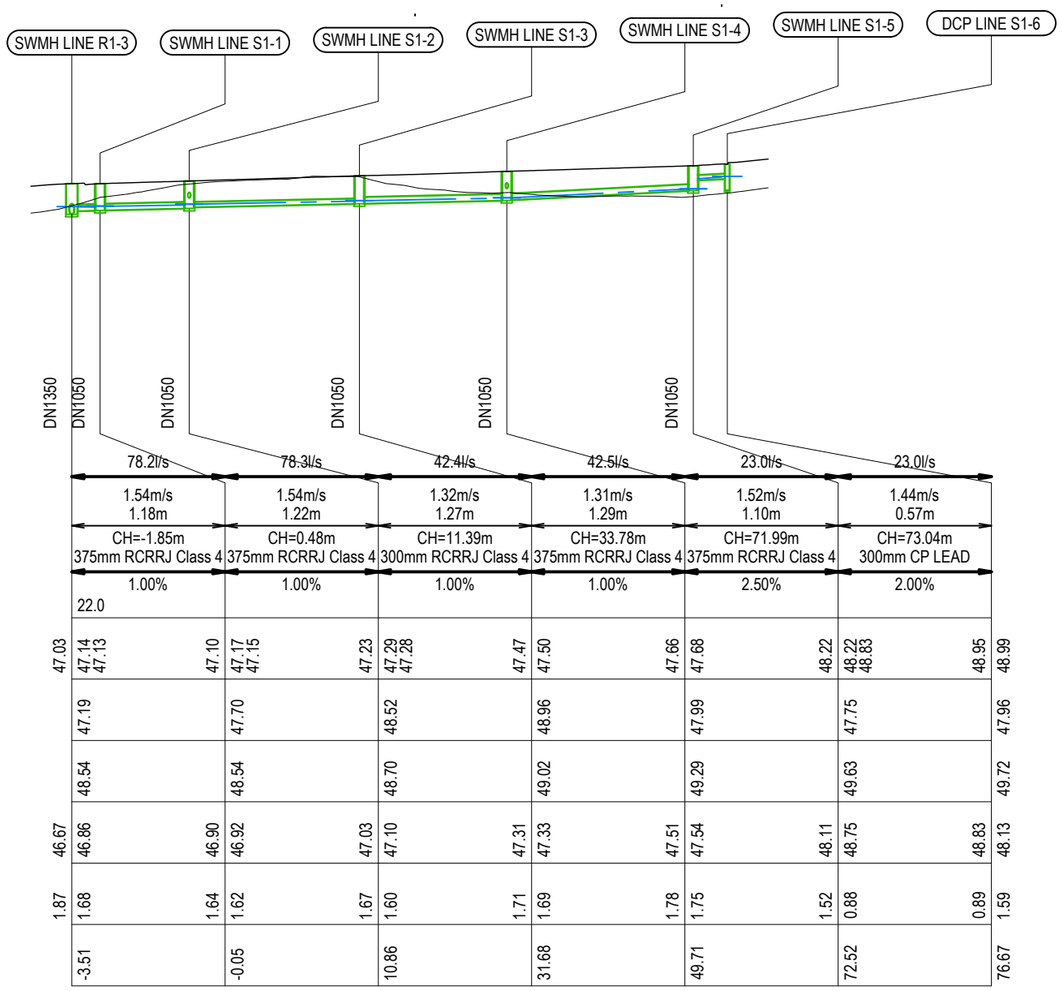
Maven Waikato
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19 Kaimiro Street, Pukete
Hamilton 3200
New Zealand

Project
HARLOW LIFESTYLE VILLAGE FOR HARLOW LIFESTYLE LTD

Title
PROPOSED STORMWATER LONGSECTION 30 OF 34

Project no.	411001		
Scale	1:1000 @ A3		
Cad file	411001-C400-SW.DWG		
Drawing no.	C420-30	Rev	A

DATE 10:10:26 FILEPATH P:\MAVEN-HAMILTON\6 PROJECTS\411001 - HARLOW LIFESTYLE VILLAGE\7 DRAWING\411001-C400-SW.DWG



SW LINE LINE S1

RESOURCE CONSENT

NOTES

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- PR GROUND LEVEL
- HYDRAULIC GRADE LINE

Rev	Description	By	Date
A	RESOURCE CONSENT	MA	02/2026

	By	Date
Survey	MAVEN	
Design	SM	03/2026
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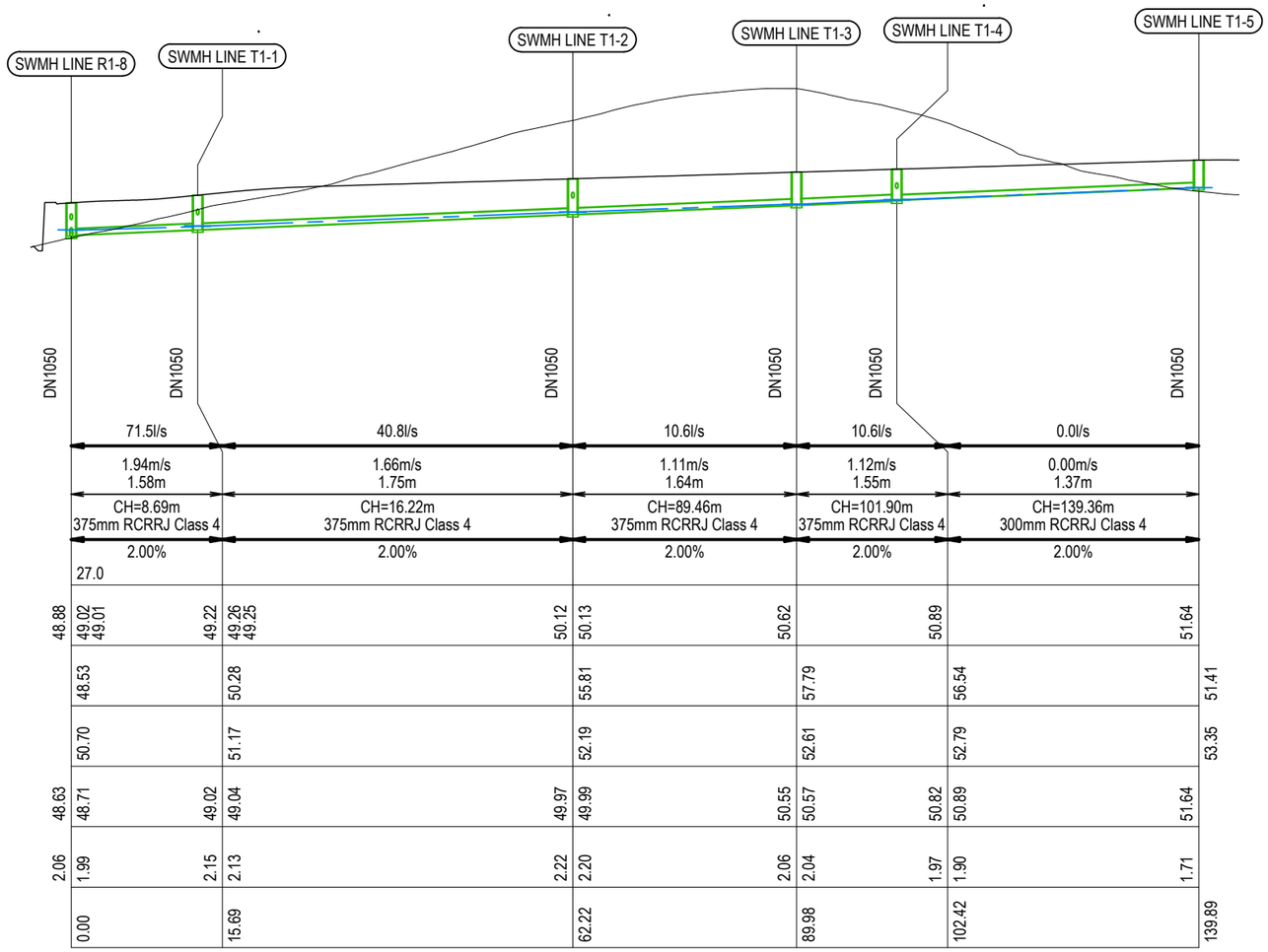
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Project
HARLOW LIFESTYLE VILLAGE FOR HARLOW LIFESTYLE LTD

Title
PROPOSED STORMWATER LONGSECTION 31 OF 34

Project no.	411001		
Scale	1:1000 @ A3		
Cad file	411001-C400-SW.DWG		
Drawing no.	C420-31	Rev	A

DATE 10:12:25 FILE PATH F:\MAVEN\HAMILTON\0_PROJECTS\411001 - HARLOW LIFESTYLE VILLAGE\7 DRAWINGS\411001-C400-SW.DWG



SW LINE LINE T1

RESOURCE CONSENT

NOTES

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Rev	Description	By	Date
A	RESOURCE CONSENT	MA	02/2026

	By	Date
Survey	MAVEN	
Design	SM	03/2026
Drawn	JPK	03/2026
Checked	DJM	

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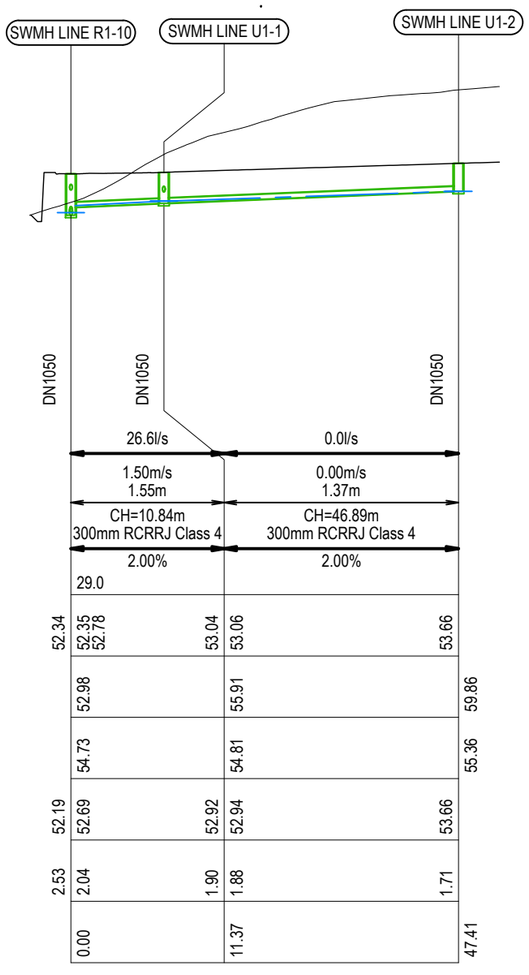
HARLOW LIFESTYLE VILLAGE FOR HARLOW LIFESTYLE LTD

Title

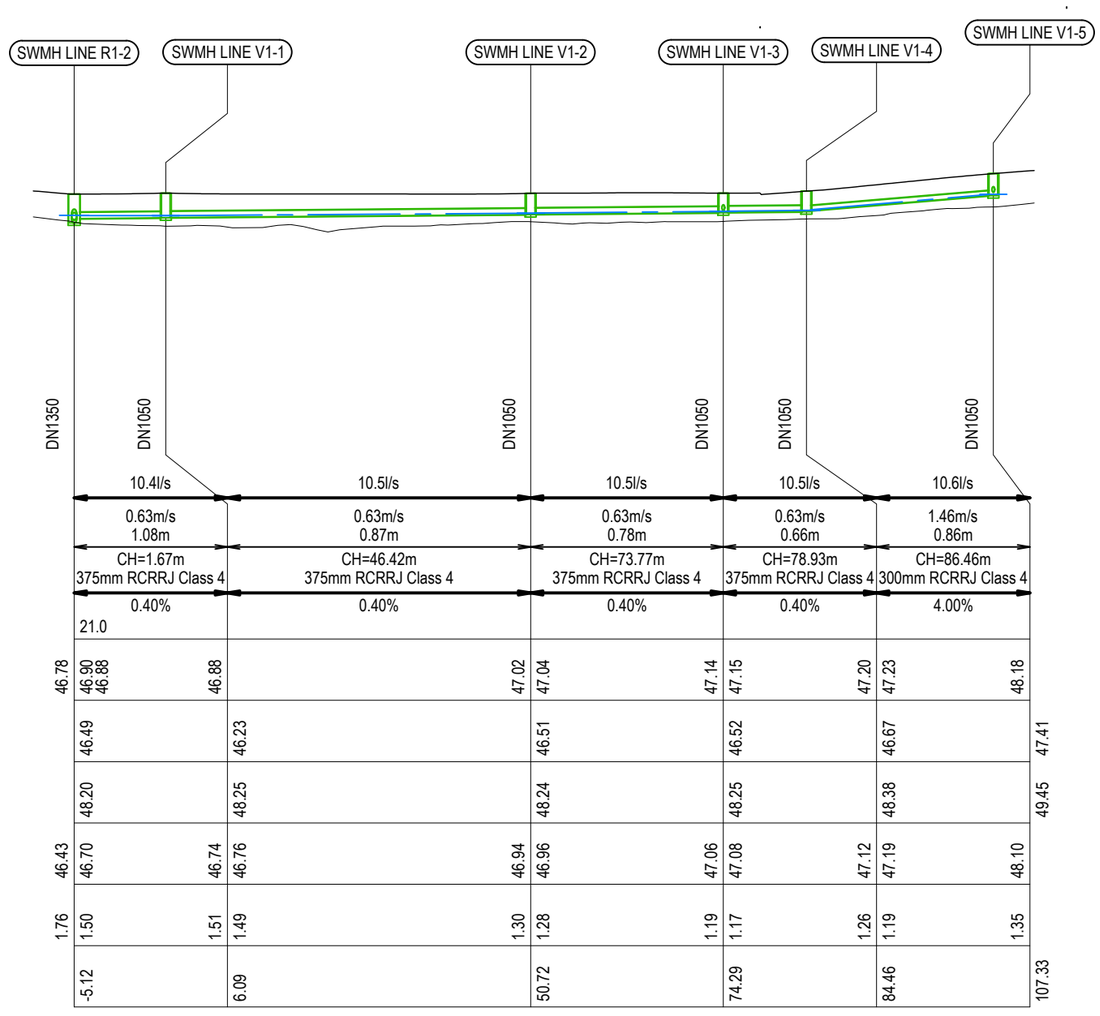
PROPOSED STORMWATER LONGSECTION 32 OF 34

Project no.	411001		
Scale	1:1000 @ A3		
Cad file	411001-C400-SW.DWG		
Drawing no.	C420-32	Rev	A

DATE: 10/12/25 FILE PATH: P:\MAVEN HAMILTON\6 PROJECTS\411001 - HARLOW LIFESTYLE VILLAGE\7 DRAWING\411001-C400-SW.DWG



SW LINE LINE U1



SW LINE LINE V1

RESOURCE CONSENT

NOTES

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Rev	Description	By	Date
A	RESOURCE CONSENT	MA	02/2026

	By	Date
Survey	MAVEN	
Design	SM	03/2026
Drawn	JPK	03/2026
Checked	DJM	

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New Zealand

Project

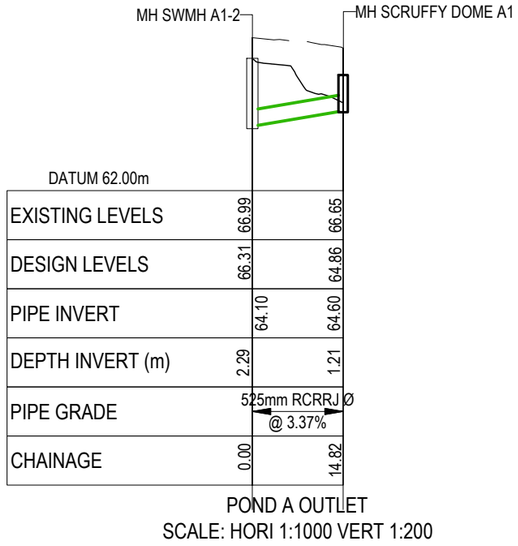
HARLOW LIFESTYLE VILLAGE FOR HARLOW LIFESTYLE LTD

Title

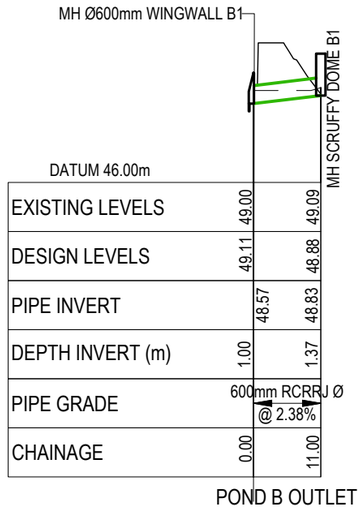
PROPOSED STORMWATER LONGSECTION 33 OF 34

Project no.	411001		
Scale	1:1000 @ A3		
Cad file	411001-C400-SW.DWG		
Drawing no.	C420-33	Rev	A

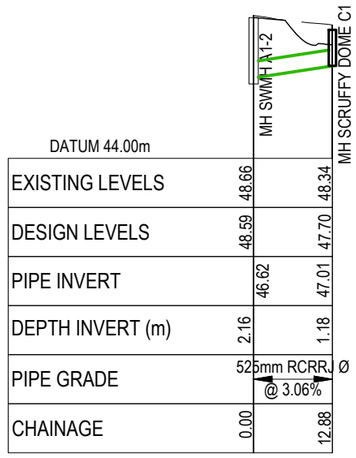
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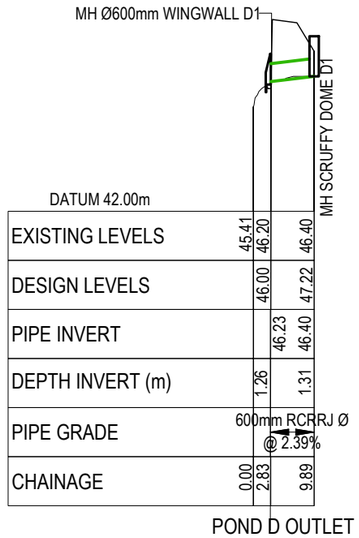
POND A OUTLET
SCALE: HORI 1:1000 VERT 1:200



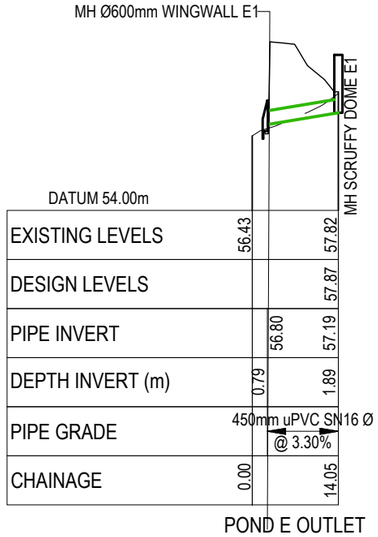
POND B OUTLET
SCALE: HORI 1:1000 VERT 1:200



POND C OUTLET
SCALE: HORI 1:1000 VERT 1:200



POND D OUTLET
SCALE: HORI 1:1000 VERT 1:200



POND E OUTLET
SCALE: HORI 1:1000 VERT 1:200

RESOURCE CONSENT

NOTES
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LEGEND
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- PR GROUND LEVEL
- HYDRAULIC GRADE LINE

Rev	Description	By	Date
A	RESOURCE CONSENT	MA	02/2026

	By	Date
Survey	MAVEN	
Design	SM	03/2026
Drawn	JPK	03/2026
Checked	DJM	

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Project
HARLOW LIFESTYLE VILLAGE FOR HARLOW LIFESTYLE LTD

Title
PROPOSED STORMWATER LONGSECTION 34 OF 34

Project no.	411001
Scale	1:1000 @ A3
Cad file	411001-C400-SW.DWG
Drawing no.	C420-34 Rev A

DATE 10/12/25 FILE PATH: F:\MAVEN HAMILTON\6 PROJECTS\411001 - HARLOW LIFESTYLE VILLAGE\7 DWG\MG411001-C400-SW.DWG

PART LOT 2
DPS 82004

LOT 2
DP 403232

LOT 2
DPS 82004

PART LOT 2
DPS 20887

PART LOT 2
DPS 52865

EXISTING CATCHMENT
AREA 58.37ha

CATCHMENT DISCHARGE POINT

LOT 2
DPS 72535

LOT 2
DP 444479

LOT 2
DP 444479

RESOURCE CONSENT

NOTES

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8. ALL LINES ARE TO BE CLASS4 RCRRJ UNLESS SHOWN OTHERWISE.
9. ALL LINES TO BE ABANDONED SHALL BE SEALED AT EACH END. TIMING OF ALL SEALING TO BE COORDINATED WITH COUNCIL STAFF.

LEGEND

- EX BOUNDARY
- EX WATERCOURSE
- CATCHMENT BOUNDARY
- PR SITE BOUNDARY

Rev	Description	By	Date
A	RESOURCE CONSENT	BD	10/2026

	By	Date
Survey	MAVEN	01/2026
Design	SM	03/2026
Drawn	JPK	03/2026
Checked	SM	10/2026

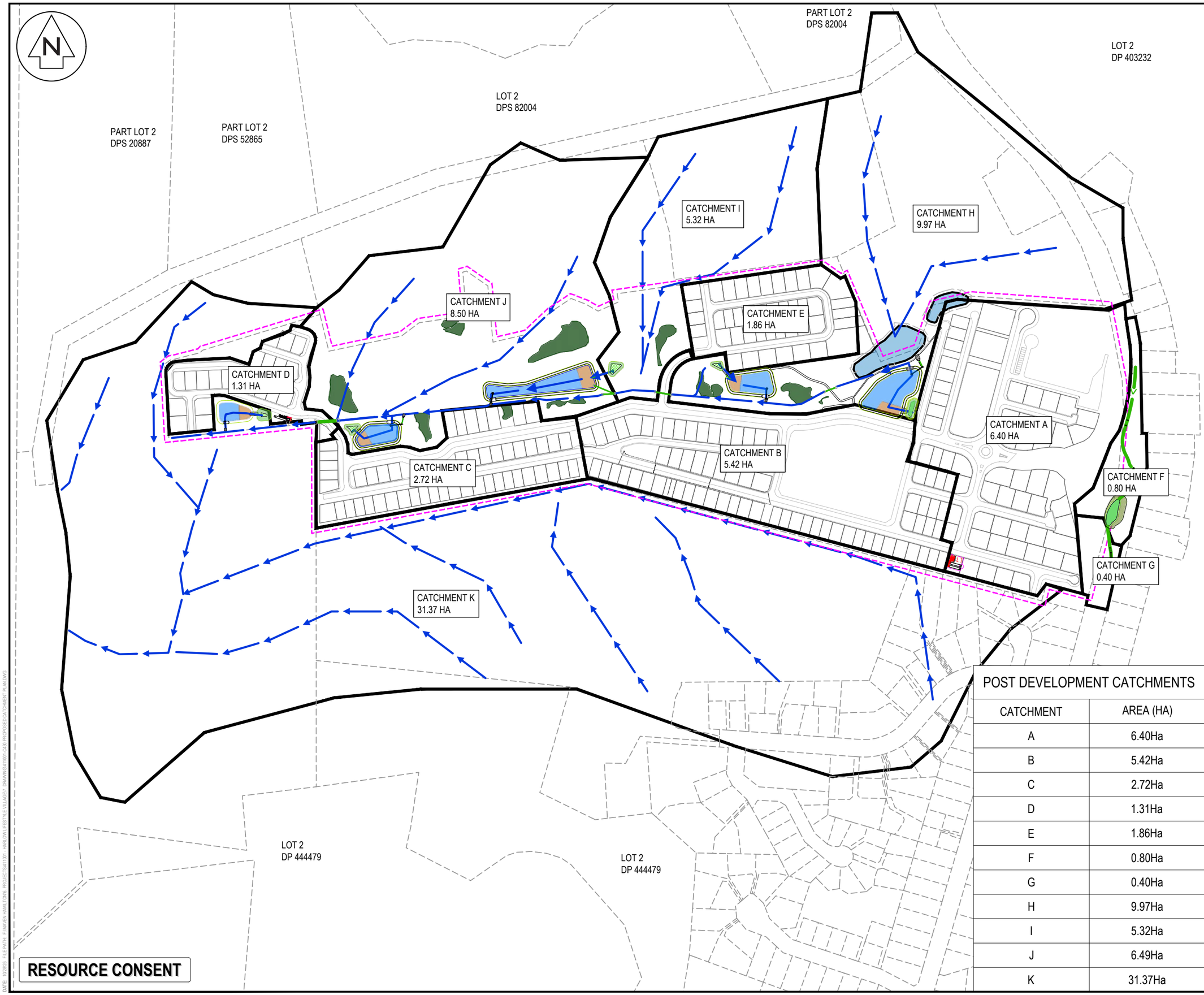
Maven Waikato
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Project
HARLOW LIFESTYLE VILLAGE FOR HARLOW LIFESTYLE LTD

Title
EXISTING SW CATCHMENT PLAN

Project no.	411001		
Scale	1:4000 @ A3		
Cad file	411001-C410 SW EXISTING CATCHMENT PLAN.DWG		
Drawing no.	C410	Rev	A

DATE: 10/1/26 FILE PATH: F:\MAVEN\HAMILTON\PROJECTS\411001-HARLOW LIFESTYLE VILLAGE\7 DRAWING\411001-C410 SW EXISTING CATCHMENT PLAN.DWG



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LEGEND

- EX BDY
- PROP BDY
- OVERLAND FLOW
- CATCHMENT BOUNDARY
- EX WETLAND
- PROP WETLAND
- EX FARM POND

POST DEVELOPMENT CATCHMENTS

CATCHMENT	AREA (HA)
A	6.40Ha
B	5.42Ha
C	2.72Ha
D	1.31Ha
E	1.86Ha
F	0.80Ha
G	0.40Ha
H	9.97Ha
I	5.32Ha
J	6.49Ha
K	31.37Ha

Rev	Description	By	Date
A	RESOURCE CONSENT	BD	10/2026

	By	Date
Survey	MAVEN	01/2026
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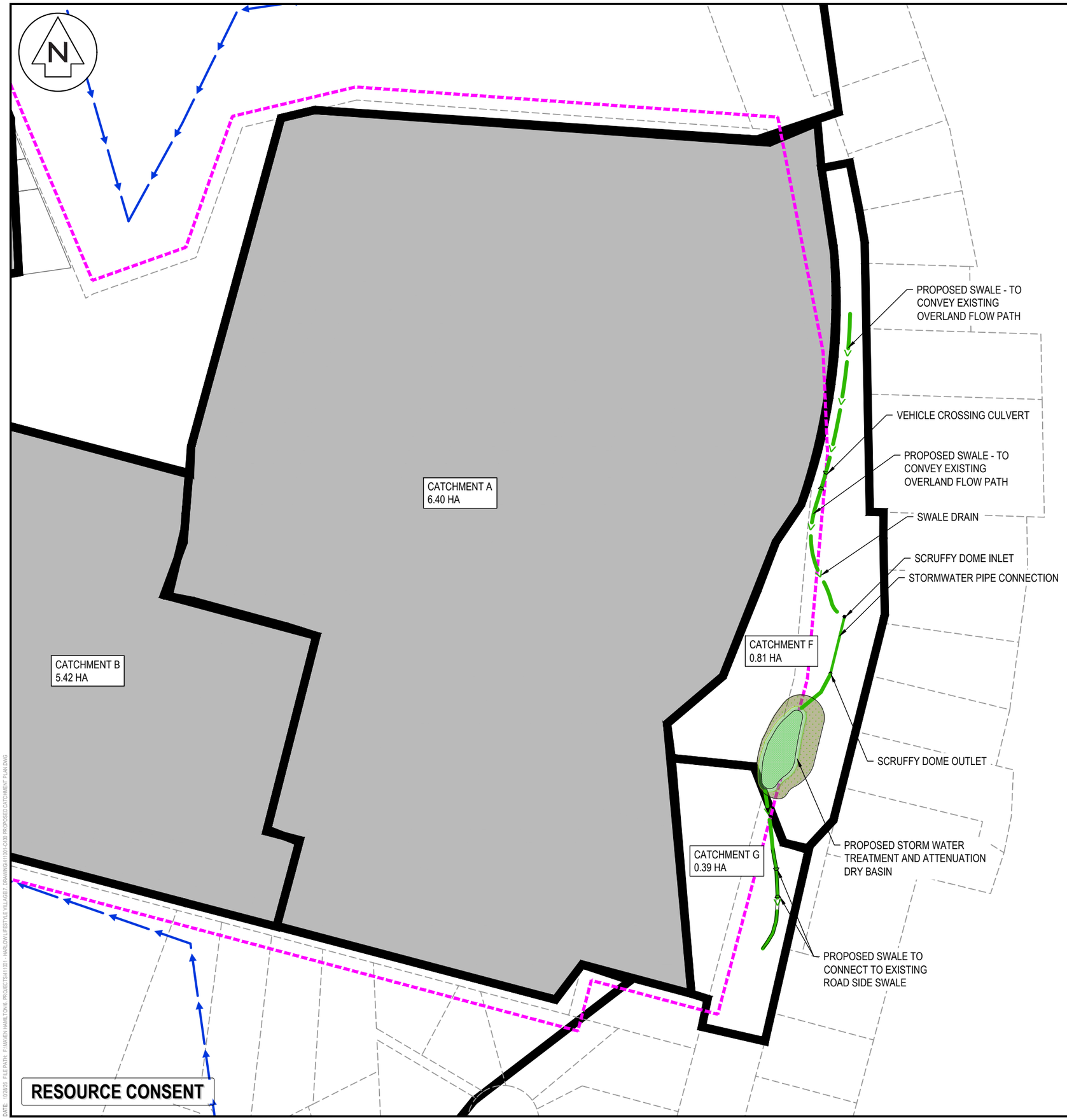
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Project
HARLOW LIFESTYLE VILLAGE FOR HARLOW LIFESTYLE LTD

Title
PROPOSED STORMWATER CATCHMENT OVERVIEW PLAN

Project no.	411001		
Scale	1:4000 @ A3		
Cad file	411001-C430 PROPOSED CATCHMENT PLAN.DWG		
Drawing no.	C430	Rev	A

DATE 10/2026 FILEPATH F:\MAVEN HAMILTON\6 PROJECTS\411001 - HARLOW LIFESTYLE VILLAGE\7 DRAWINGS\411001-C430 PROPOSED CATCHMENT PLAN.DWG



NOTE:
INFRASTRUCTURE SHOWN WITHIN THIS PLAN IS TO BE CONSTRUCTED TO SUPPORT THE DEVELOPING CATCHMENT AS THE PROJECT PROGRESSES. IF INFRASTRUCTURE IS NOT SHOWN WITHIN THE PLAN, IT WILL BE ALLOCATED TO SUPPORTING A SEPARATE CATCHMENT AND SHALL BE CONSTRUCTED AT THAT SPECIFIED STAGE.

NOTES

1. ALL WORKS TO BE IN ACCORDANCE WITH WAIKATO REGIONAL INFRASTRUCTURE TECHNICAL SPECIFICATIONS.
2. CO-ORDINATES IN TERMS OF NZ GEODETIC DATUM MT EDEN 2000. LEVELS IN TERMS OF THE NEW ZEALAND VERTICAL DATUM 2016. CONVERSION TO MOTURIKI 1953 CAN BE ACHIEVED BY ADDING 0.2594M.
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5. APPROVED HARDFILL IS TO BE USED IN BACKFILLING OF ALL STORMWATER LINES WITHIN THE ROAD RESERVE.
6. HEAVY DUTY MANHOLE LIDS AND FRAMES TO BE USED IN TRAFFICKED AREAS.
7. ALL CESSPIT LEADS SHALL HAVE MIN COVER 0.9M.
8. ALL LINES ARE TO BE CLASS4 RCRRJ UNLESS SHOWN OTHERWISE.
9. ALL LINES TO BE ABANDONED SHALL BE SEALED AT EACH END. TIMING OF ALL SEALING TO BE COORDINATED WITH COUNCIL STAFF.

LEGEND

- EX BDY
- PR SITE BDY
- OVERLAND FLOW
- CATCHMENT BOUNDARY
- EX WETLAND
- PROP WETLAND
- PR STORMWATER POND
- EX FARM POND

Rev	Description	By	Date
A	RESOURCE CONSENT	BD	10/2026

	By	Date
Survey	MAVEN	01/2026
Design	SM	03/2026
Drawn	JPK	03/2026
Checked	SM	10/2026

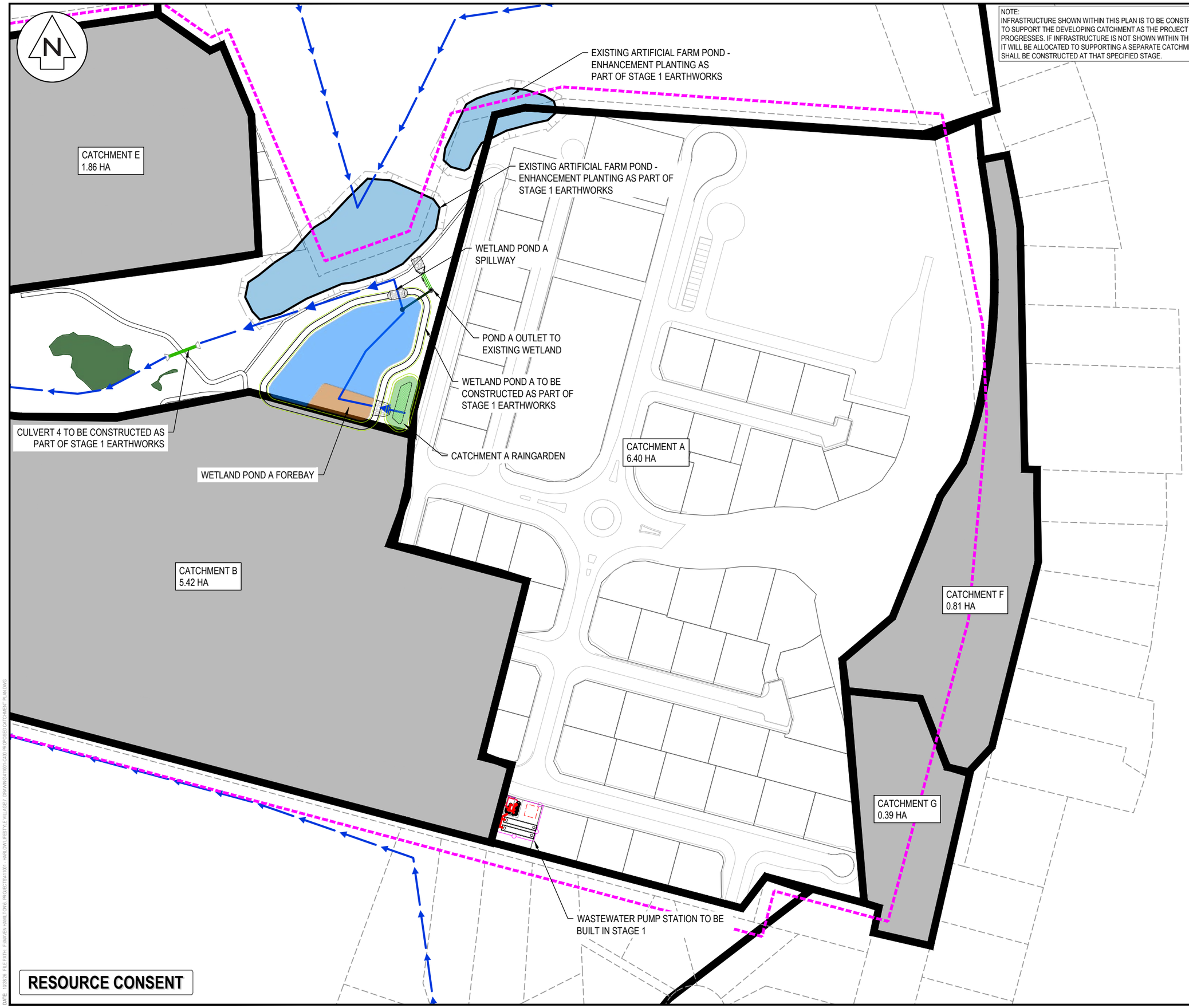
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New Zealand

Project
HARLOW LIFESTYLE VILLAGE FOR HARLOW LIFESTYLE LTD

Title
STORMWATER WORKS ASSOCIATED WITH NZTA / STAGE 1 EARTHWORKS

Project no.	411001
Scale	1:1500 @ A3
Cad file	411001-C430 PROPOSED CATCHMENT PLAN.DWG
Drawing no.	C430-1 Rev A

DATE: 10/2025 FILE PATH: P:\MAVEN HAMILTON\PROJECTS\411001 - HARLOW LIFESTYLE VILLAGE\7 DRAWINGS\411001-C430 PROPOSED CATCHMENT PLAN.DWG



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LEGEND

- EX BDY
- PROP BDY
- OVERLAND FLOW
- CATCHMENT BOUNDARY
- EX WETLAND
- PROP WETLAND
- EX FARM POND

Rev	Description	By	Date
A	RESOURCE CONSENT	BD	10/2026

	By	Date
Survey	MAVEN	01/2026
Design	SM	03/2026
Drawn	JPK	03/2026
Checked	SM	10/2026

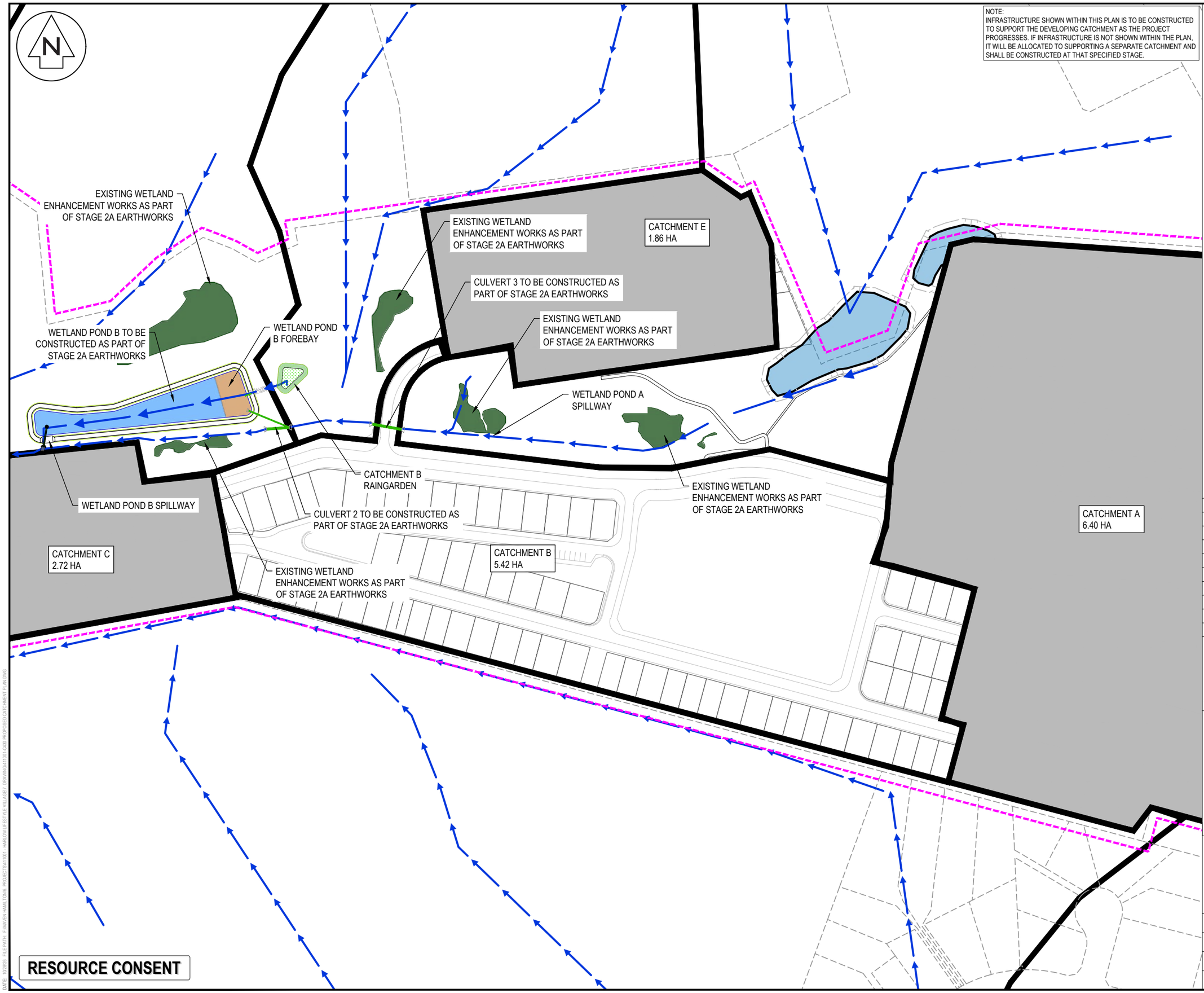
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Project
HARLOW LIFESTYLE VILLAGE FOR HARLOW LIFESTYLE LTD

Title
STORMWATER WORKS ASSOCIATED WITH STAGE 1 EARTHWORKS

Project no.	411001		
Scale	1:1500 @ A3		
Cad file	411001-C430 PROPOSED CATCHMENT PLAN.DWG		
Drawing no.	C430-2	Rev	A

DATE: 12/2025 FILE PATH: P:\MAVEN WAIKATO\PROJECTS\411001 - HARLOW LIFESTYLE VILLAGE\7 DRAWING\411001-C430 PROPOSED CATCHMENT PLAN.DWG



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LEGEND

- EX BDY
- PROP BDY
- OVERLAND FLOW
- CATCHMENT BOUNDARY
- EX WETLAND
- PROP WETLAND
- EX FARM POND

Rev	Description	By	Date
A	RESOURCE CONSENT	BD	10/2026

	By	Date
Survey	MAVEN	01/2026
Design	SM	03/2026
Drawn	JPK	03/2026
Checked	SM	10/2026

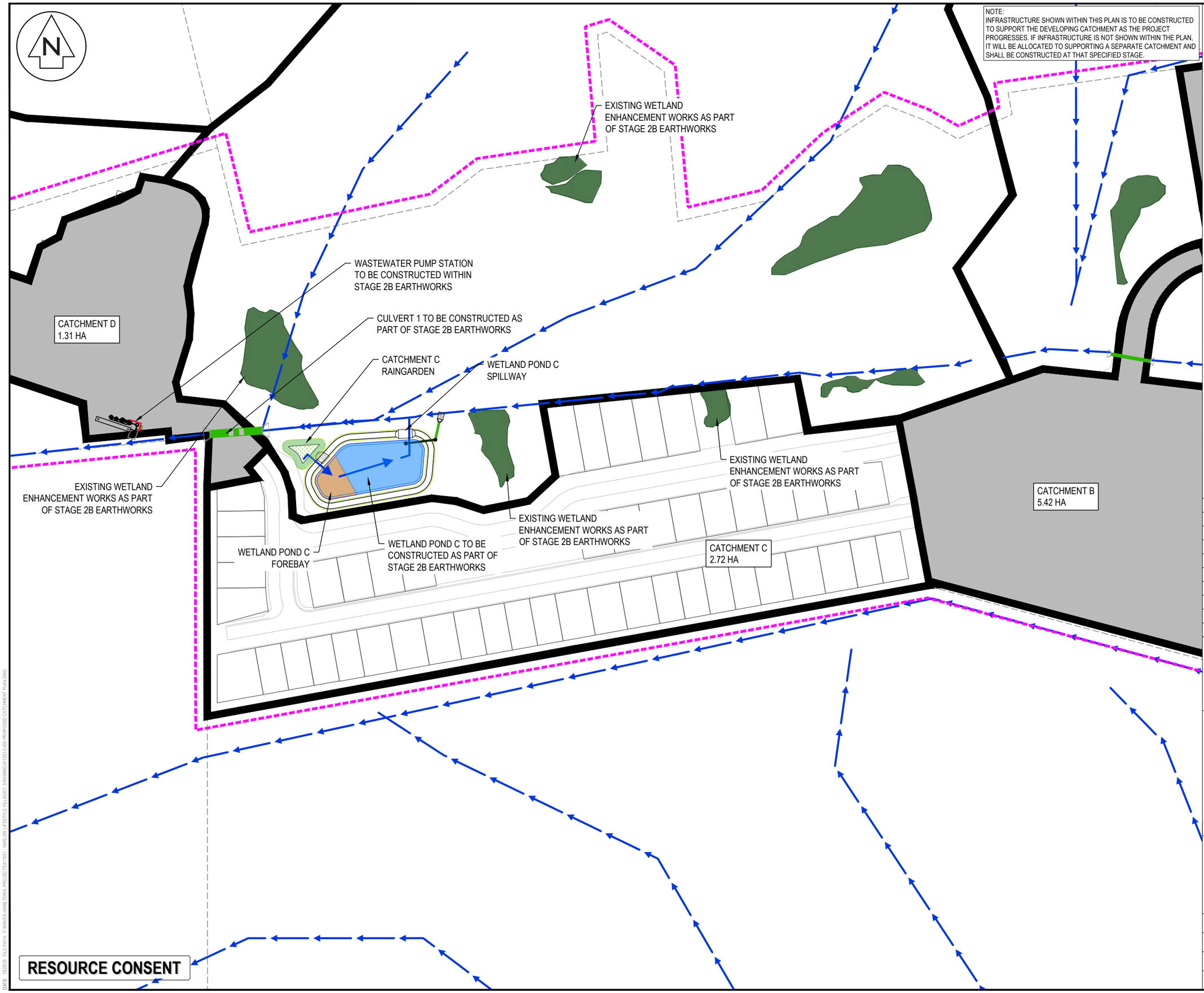
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Project
HARLOW LIFESTYLE VILLAGE FOR HARLOW LIFESTYLE LTD

Title
STORMWATER WORKS ASSOCIATED WITH STAGE 2A EARTHWORKS

Project no.	411001		
Scale	1:2000 @ A3		
Cad file	411001-C430 PROPOSED CATCHMENT PLAN.DWG		
Drawing no.	C430-3	Rev	A

DATE: 02/26 FILE PATH: F:\MAVEN\HAULTOWN PROJECTS\411001 - HARLOW LIFESTYLE VILLAGE\7. DRAWINGS\11001 C430 PROPOSED CATCHMENT PLAN.DWG



NOTE:
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LEGEND

- EX BDY
- PROP BDY
- OVERLAND FLOW
- CATCHMENT BOUNDARY
- EX WETLAND
- PROP WETLAND
- EX FARM POND

Rev	Description	By	Date
A	RESOURCE CONSENT	BD	10/2026

	By	Date
Survey	MAVEN	01/2026
Design	SM	03/2026
Drawn	JPK	03/2026
Checked	SM	10/2026

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Project
HARLOW LIFESTYLE VILLAGE FOR HARLOW LIFESTYLE LTD

Title
STORMWATER WORKS ASSOCIATED WITH STAGE 2B EARTHWORKS

Project no.	411001
Scale	1:1500 @ A3
Cad file	411001-C430 PROPOSED CATCHMENT PLAN.DWG
Drawing no.	C430-4 Rev A

RESOURCE CONSENT

DATE 10/26/26 FILEPATH F:\MAVEN HAMILTON\6 PROJECTS\411001 - HARLOW LIFESTYLE VILLAGE\7 DRAWING\411001-C430 PROPOSED CATCHMENT PLAN.DWG

NOTE:
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CATCHMENT D
1.31 HA

WETLAND POND D TO BE CONSTRUCTED AS PART OF STAGE 4 EARTHWORKS

WETLAND POND D FOREBAY

CATCHMENT D RAINGARDEN

WETLAND POND D SPILLWAY

WASTEWATER PUMP STATION TO BE CONSTRUCTED WITHIN STAGE 2B EARTHWORKS

CATCHMENT C
2.72 HA

RESOURCE CONSENT

NOTES
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LEGEND
- EX BDY
- PROP BDY
- OVERLAND FLOW
- CATCHMENT BOUNDARY
- EX WETLAND
- PROP WETLAND
- EX FARM POND

Rev	Description	By	Date
A	RESOURCE CONSENT	BD	10/2026

	By	Date
Survey	MAVEN	01/2026
Design	SM	03/2026
Drawn	JPK	03/2026
Checked	SM	10/2026

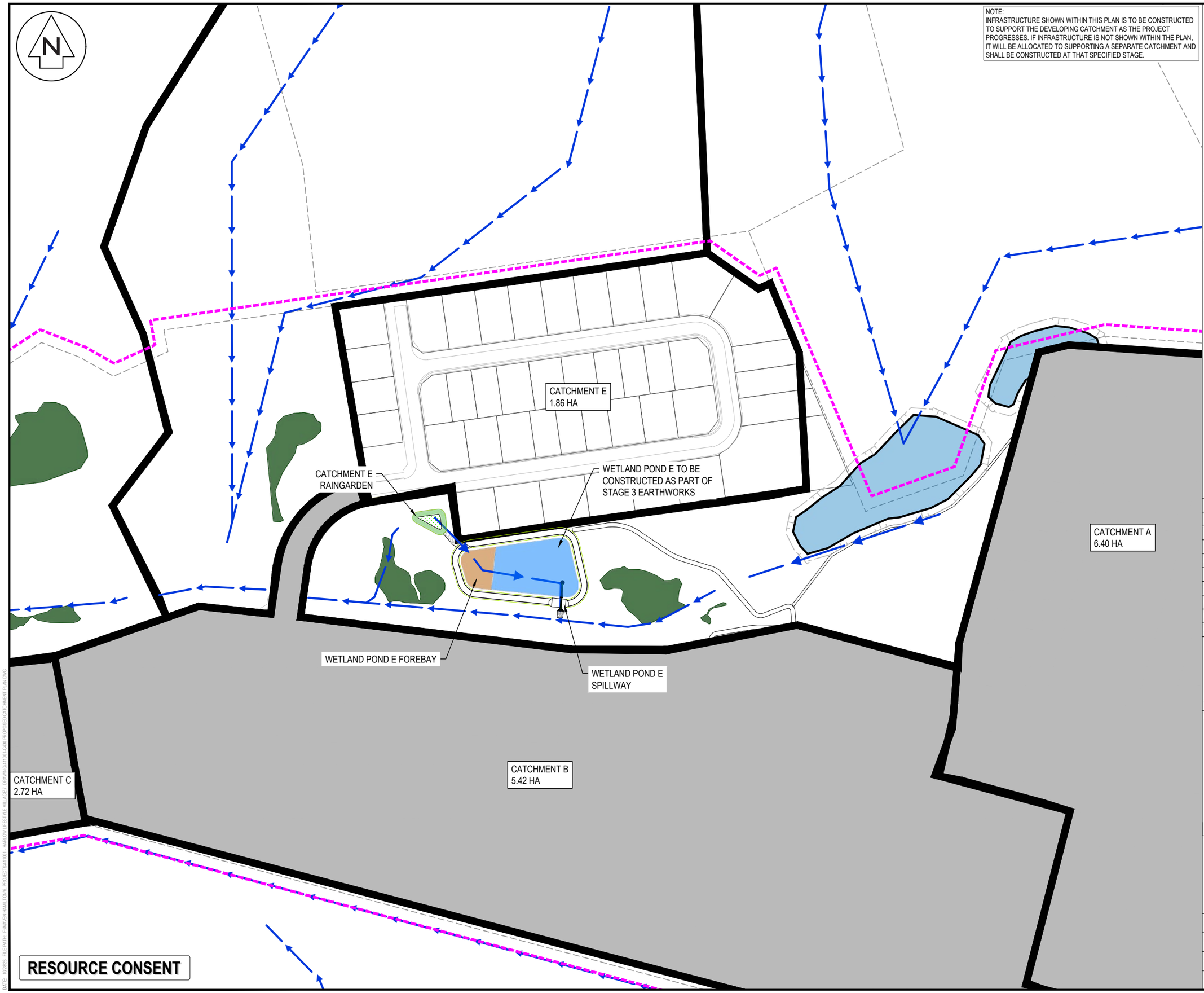
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Project
HARLOW LIFESTYLE VILLAGE FOR HARLOW LIFESTYLE LTD

Title
STORMWATER WORKS ASSOCIATED WITH STAGE 4 EARTHWORKS

Project no.	411001
Scale	1:1500 @ A3
Cad file	411001-C430 PROPOSED CATCHMENT PLAN.DWG
Drawing no.	C430-5 Rev A

DATE: 02/26 FILE PATH: P:\MAVEN HAMILTON\PROJECTS\411001 - HARLOW LIFESTYLE VILLAGE\7 DRAWING\411001-C430 PROPOSED CATCHMENT PLAN.DWG



NOTE:
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LEGEND

- EX BDY
- PROP BDY
- OVERLAND FLOW
- CATCHMENT BOUNDARY
- EX WETLAND
- PROP WETLAND
- EX FARM POND

Rev	Description	By	Date
A	RESOURCE CONSENT	BD	10/2026

	By	Date
Survey	MAVEN	01/2026
Design	SM	03/2026
Drawn	JPK	03/2026
Checked	SM	10/2026

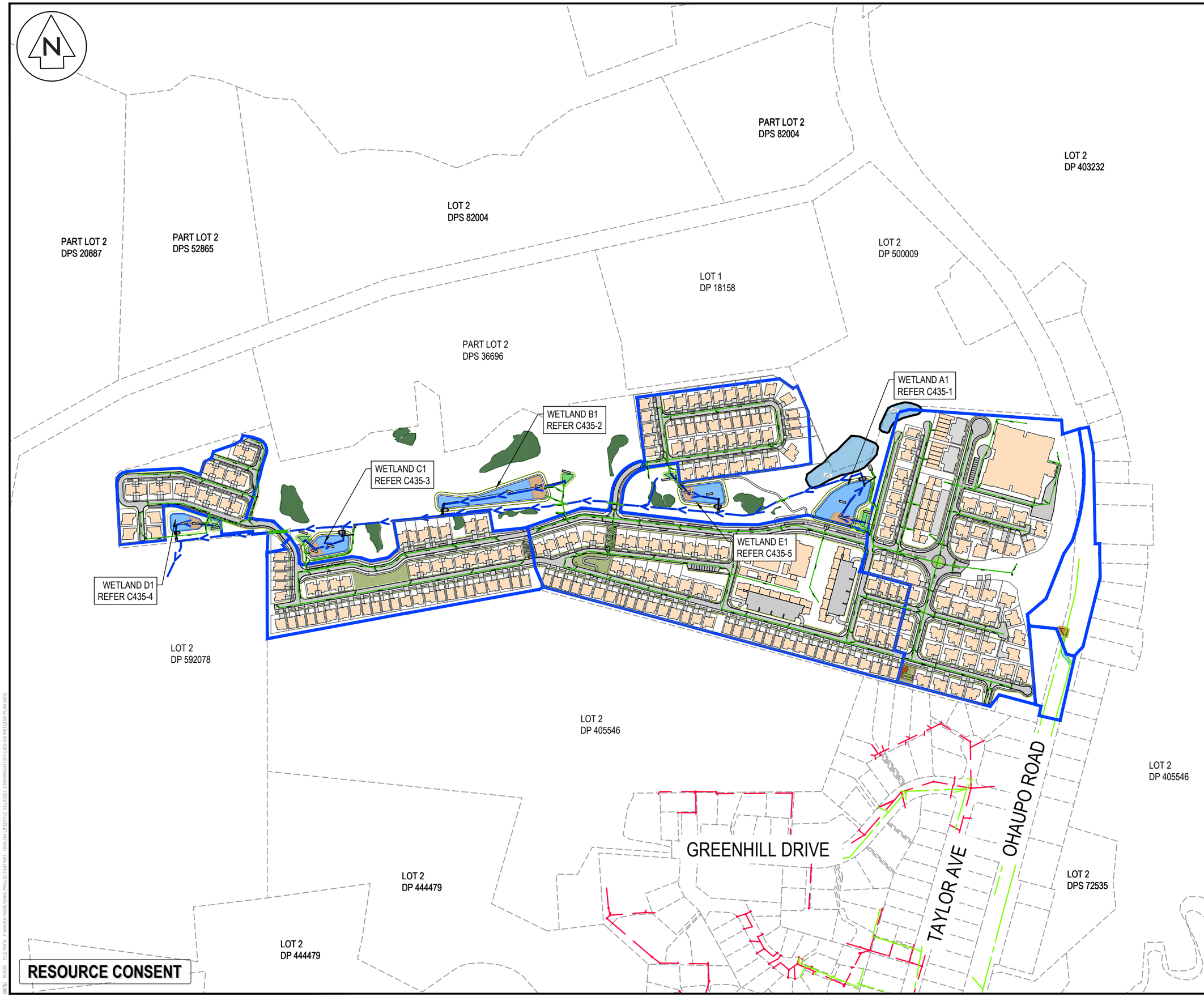
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Project
HARLOW LIFESTYLE VILLAGE FOR HARLOW LIFESTYLE LTD

Title
STORMWATER WORKS ASSOCIATED WITH STAGE 3 EARTHWORKS

Project no.	411001		
Scale	1:1500 @ A3		
Cad file	411001-C430 PROPOSED CATCHMENT PLAN.DWG		
Drawing no.	C430-6	Rev	A

DATE: 10/2026 FILE PATH: P:\MAVEN HAMILTON\6 PROJECTS\411001 - HARLOW LIFESTYLE VILLAGE\7 DRAWING\411001-C430 PROPOSED CATCHMENT PLAN.DWG



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LEGEND

- EX BDY
- PROP BDY
- PR STORMWATER PIPE
- EX SW DRAIN/ CHANNEL
- PROP SWMH
- PROP SW SCRUFFY
- PROP SW OUTLET
- PR WETLAND
- PR FOREBAY
- PR RAINGARDEN
- PR MAINTENANCE TRACK
- ROCK RIP RAP
- EX WETLAND WITH 10m BUFFER

Rev	Description	By	Date
A	FAST TRACK	BD	10/2026

	By	Date
Survey	MAVEN	
Design	SM	03/2026
Drawn	JPK	03/2026
Checked	DJM	

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Project

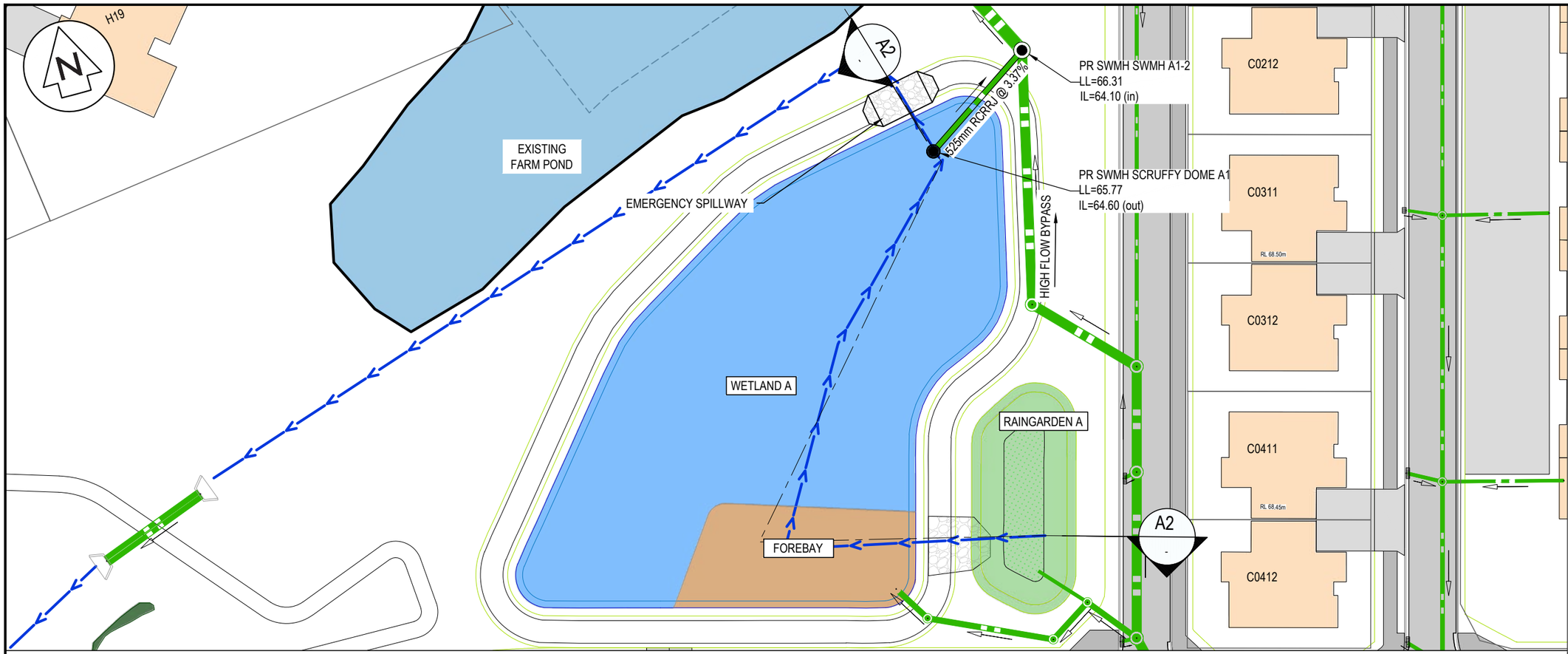
HARLOW LIFESTYLE VILLAGE FOR HARLOW LIFESTYLE LTD

Title

PROPOSED STORMWATER WETLAND OVERVIEW PLAN

Project no.	411001		
Scale	1:500 @ A3		
Cad file	411001-C435-SW WETLAND PLAN.DWG		
Drawing no.	C435-0	Rev	A

DATE: 10/4/26 FILE PATH: F:\MAVEN HAMILTON\PROJECTS\411001 - HARLOW LIFESTYLE VILLAGE\1 DRAWINGS\411001-C435-SW WETLAND PLAN.DWG

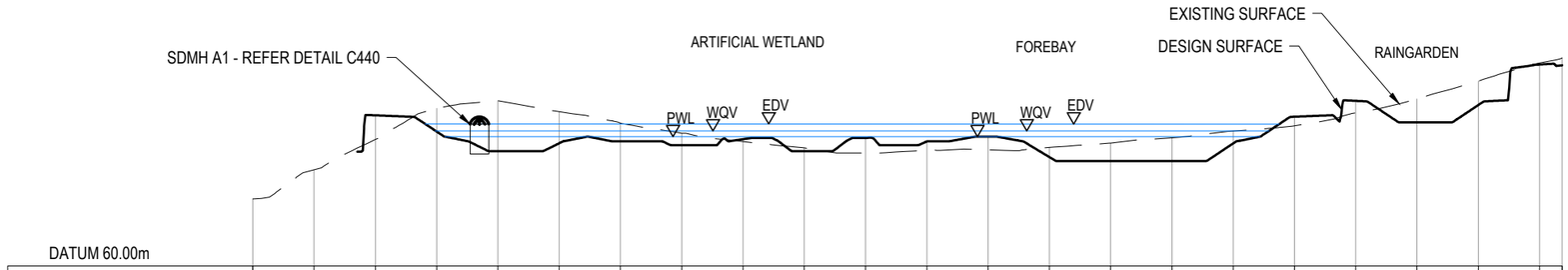


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LEGEND

- EX BDY
- PROP BDY
- PR STORMWATER PIPE
- EX SW DRAIN/ CHANNEL
- PROP SWMH
- PROP SW SCRUFFY
- PROP SW OUTLET
- PR WETLAND
- PR FOREBAY
- PR RAINGARDEN
- PR MAINTENANCE TRACK
- ROCK RIP RAP
- EX WETLAND WITH 10m BUFFER



DATUM 60.00m

EXISTING LEVELS	62.73	63.92	65.15	66.42	66.72	66.28	65.82	65.40	65.07	64.81	64.60	64.71	64.73	64.83	65.00	65.21	65.49	65.70	66.24	66.80	67.53	68.26	68.47
DESIGN LEVELS			66.13	65.47	64.67	65.00	65.07	64.92	65.16	64.67	65.22	65.07	65.27	64.43	64.27	64.27	64.99	66.08	66.72	65.85	66.55	68.20	68.17
CUT/FILL			0.99	-0.95	-2.05	-1.29	-0.75	-0.48	0.10	-0.14	0.62	0.36	0.54	-0.39	-0.73	-0.94	-0.50	0.37	0.49	-0.95	-0.98	-0.06	-0.30
CHAINAGE	0.00	5.00	10.00	15.00	20.00	25.00	30.00	35.00	40.00	45.00	50.00	55.00	60.00	65.00	70.00	75.00	80.00	85.00	90.00	95.00	100.00	105.00	106.84

WETLAND A1 CROSS-SECTION
SCALE: HORI 1:500 VERT 1:250

RESOURCE CONSENT

Rev	Description	By	Date
A	FAST TRACK	BD	10/2026

	By	Date
Survey	MAVEN	
Design	SM	03/2026
Drawn	JPK	03/2026
Checked	DJM	

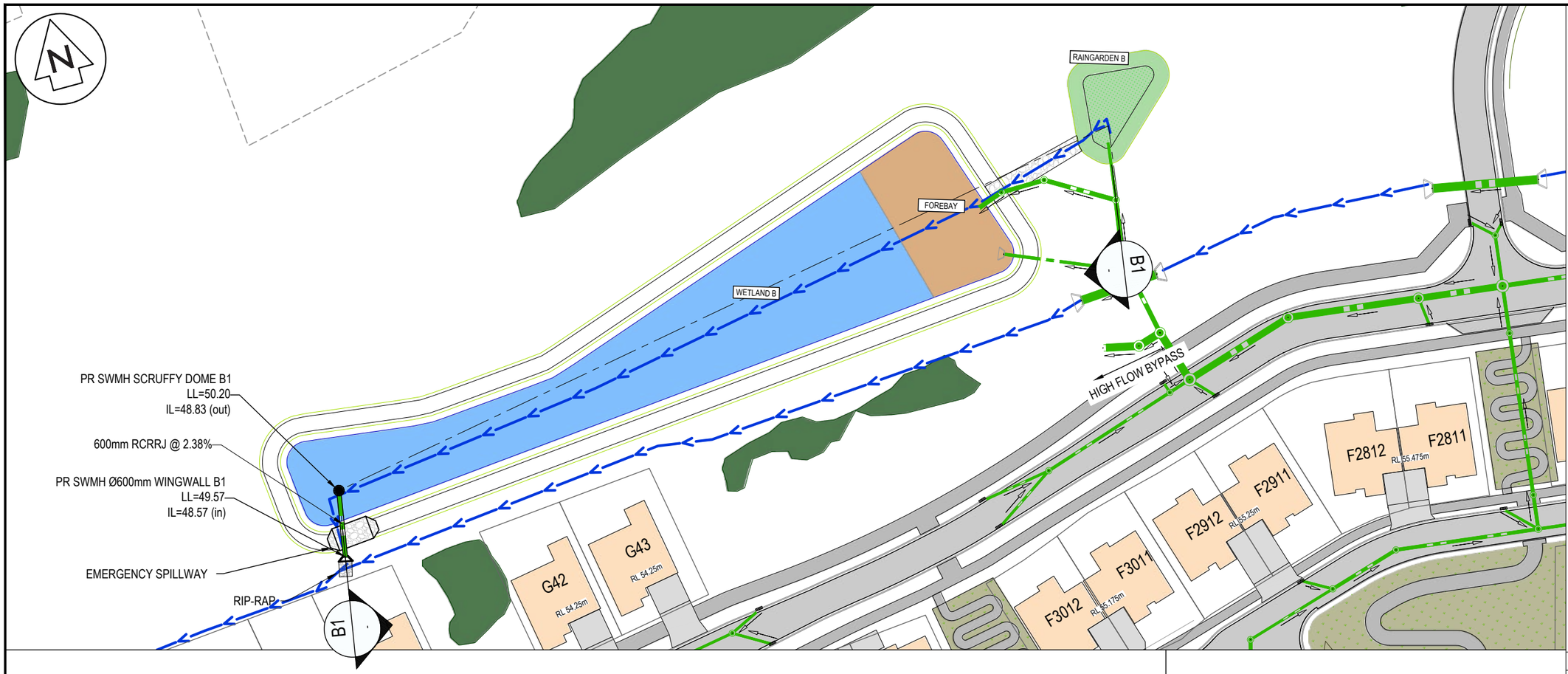
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Project
HARLOW LIFESTYLE VILLAGE FOR HARLOW LIFESTYLE LTD

Title
PROPOSED STORMWATER WETLAND A1

Project no.	411001		
Scale	1:500 @ A3		
Cad file	411001-C435-SW WETLAND PLAN.DWG		
Drawing no.	C435-1	Rev	A

DATE: 10/26 FILE PATH: F:\MAVEN HAMILTON\6 PROJECTS\411001 - HARLOW LIFESTYLE VILLAGE\7 DRAWINGS\411001-C435-SW WETLAND PLAN.DWG

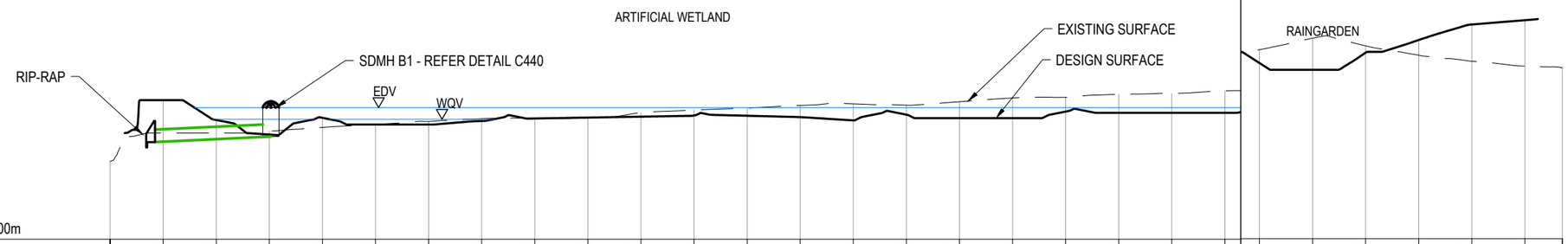


NOTES

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LEGEND

- EX BDY
- PROP BDY
- PR STORMWATER PIPE
- EX SW DRAIN/ CHANNEL
- PROP SWMH
- PROP SW SCRUFFY
- PROP SW OUTLET
- PR WETLAND
- PR FOREBAY
- PR RAINGARDEN
- PR MAINTENANCE TRACK
- ROCK RIP RAP
- EX WETLAND WITH 10m BUFFER



DATUM 44.00m

EXISTING LEVELS	47.67	49.00	49.00	49.08	49.26	49.41	49.54	49.68	49.69	49.71	49.97	50.08	50.17	50.30	50.37	50.31	50.47	50.65	50.68	50.82	50.87	50.98	52.90	53.44	53.08	52.64	52.36	52.13	52.04
DESIGN LEVELS		50.55	49.61	48.93	49.72	49.40	49.40	49.57	49.69	49.73	49.77	49.83	49.81	49.75	49.59	49.87	49.70	49.70	50.01	49.95	49.95	49.95	52.27	51.95	52.76	53.36	54.09	54.29	
CUT/FILL		1.55	0.61	-0.15	0.45	-0.01	-0.14	-0.11	0.00	0.02	-0.20	-0.26	-0.36	-0.55	-0.78	-0.45	-0.77	-0.95	-0.67	-0.87	-0.92	-1.03	-0.63	-1.49	-0.32	0.72	1.73	2.16	
CHAINAGE	0.00	5.00	10.00	15.00	20.00	25.00	30.00	35.00	40.00	45.00	50.00	55.00	60.00	65.00	70.00	75.00	80.00	85.00	90.00	95.00	100.00	109.00	150.00	155.00	160.00	165.00	170.00	175.00	178.52

WETLAND B1 CROSS-SECTION
SCALE: HORI 1:500 VERT 1:250

RESOURCE CONSENT

Rev	Description	By	Date
A	FAST TRACK	BD	10/2026

	By	Date
Survey	MAVEN	
Design	SM	03/2026
Drawn	JPK	03/2026
Checked	DJM	

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www.maven.co.nz
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Hamilton 3200
New Zealand

Project

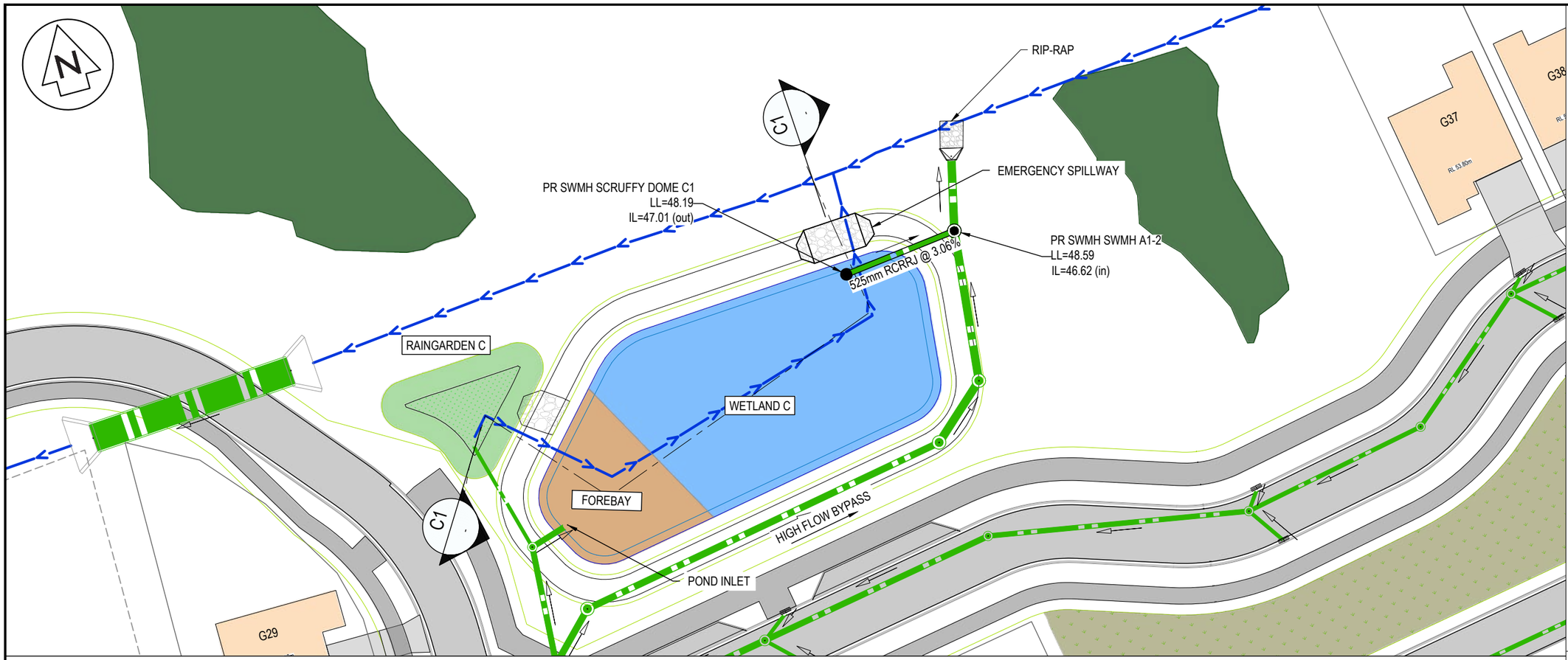
HARLOW LIFESTYLE VILLAGE FOR HARLOW LIFESTYLE LTD

Title

PROPOSED STORMWATER WETLAND B1

Project no.	411001		
Scale	1:500 @ A3		
Cad file	411001-C435-SW WETLAND PLAN.DWG		
Drawing no.	C435-2	Rev	A

DATE: 10/26 FILE PATH: F:\MAVEN HAMILTON\6 PROJECTS\411001 - HARLOW LIFESTYLE VILLAGE\7 DRAWINGS\411001-C435-SW WETLAND PLAN.DWG

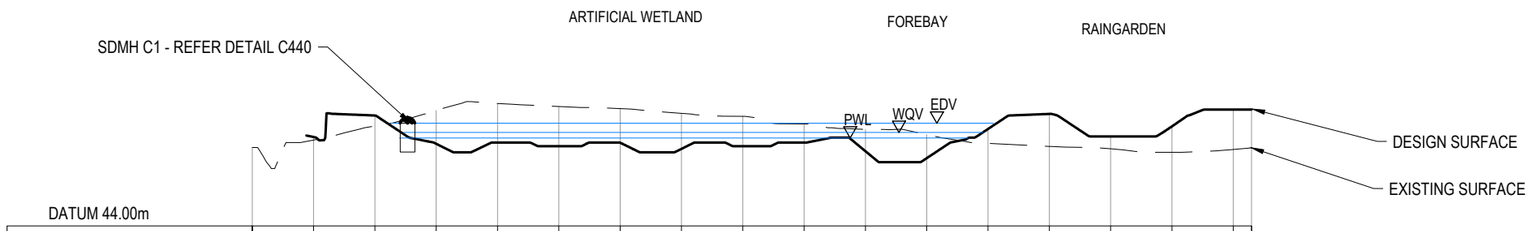


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- EX BDY
- PROP BDY
- PR STORMWATER PIPE
- EX SW DRAIN/ CHANNEL
- PROP SWMH
- PROP SW SCRUFFY
- PROP SW OUTLET
- PR WETLAND
- PR FOREBAY
- PR RAINGARDEN
- PR MAINTENANCE TRACK
- ROCK RIP RAP
- EX WETLAND WITH 10m BUFFER



DATUM 44.00m

EXISTING LEVELS	47.20	47.50	48.07	48.71	48.99	48.87	48.78	48.59	48.47	48.16	47.93	47.72	47.36	47.24	47.14	47.00	47.12	47.18
DESIGN LEVELS		47.62	48.50	47.35	47.40	47.25	47.39	47.14	47.25	47.40	47.05	46.76	47.95	48.57	47.65	48.06	48.74	48.74
CUT/FILL		0.12	0.43	-1.36	-1.59	-1.62	-1.39	-1.45	-1.22	-0.76	-0.89	-0.96	0.59	1.33	0.51	1.06	1.62	1.56
CHAINAGE	0.00	5.00	10.00	15.00	20.00	25.00	30.00	35.00	40.00	45.00	50.00	55.00	60.00	65.00	70.00	75.00	80.00	81.49

WETLAND C1 CROSS-SECTION
SCALE: HORI 1:500 VERT 1:250

RESOURCE CONSENT

Rev	Description	By	Date
A	FAST TRACK	BD	10/2026

	By	Date
Survey	MAVEN	
Design	SM	03/2026
Drawn	JPK	03/2026
Checked	DJM	

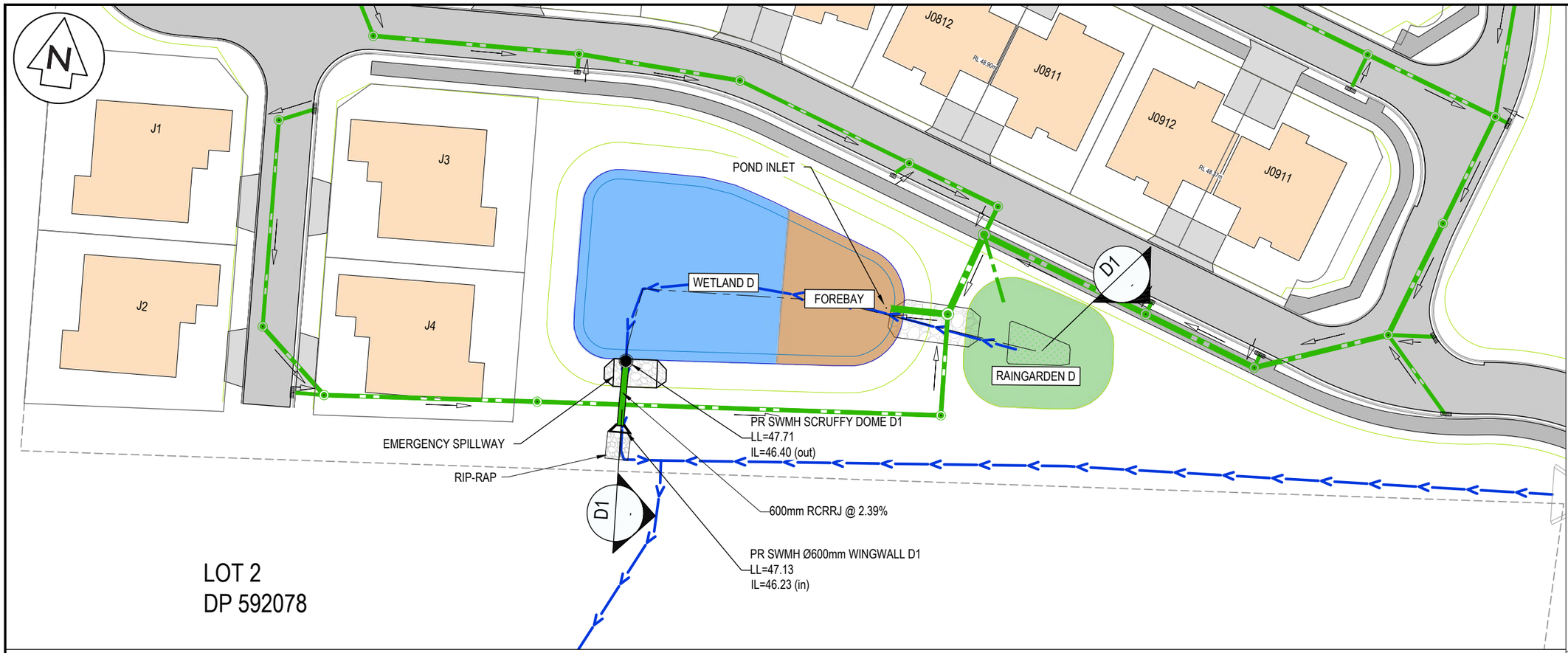
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info@maven.co.nz
www.maven.co.nz
19 Kaimiro Street, Pukete
Hamilton 3200
New Zealand

Project
HARLOW LIFESTYLE VILLAGE FOR HARLOW LIFESTYLE LTD

Title
PROPOSED STORMWATER WETLAND C1

Project no.	411001
Scale	1:500 @ A3
Cad file	411001-C435-SW WETLAND PLAN.DWG
Drawing no.	C435-3 Rev A

DATE 10/05 FILE PATH: F:\MAVEN HAMILTON\6 PROJECTS\411001 - HARLOW LIFESTYLE VILLAGE\7 DRAWING\411001-C435-SW WETLAND PLAN.DWG

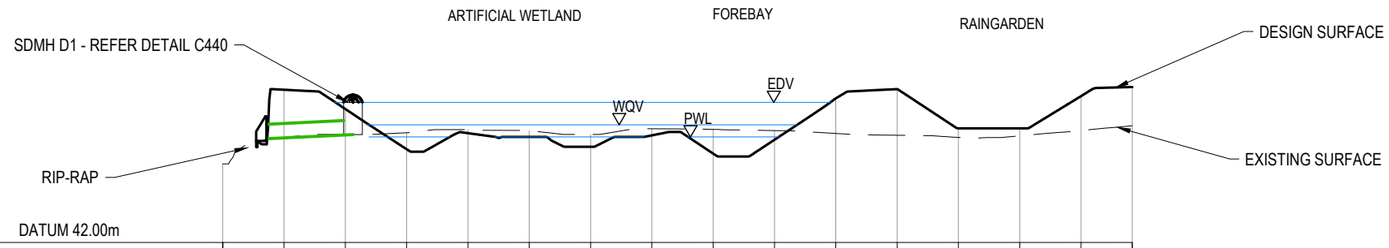


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- EX SW DRAIN/ CHANNEL
- PROP SWMH
- PROP SW SCRUFFY
- PROP SW OUTLET
- PR WETLAND
- PR FOREBAY
- PR RAINGARDEN
- PR MAINTENANCE TRACK
- ROCK RIP RAP
- EX WETLAND WITH 10m BUFFER



EXISTING LEVELS	45.20	46.28	46.40	46.47	46.60	46.55	46.40	46.63	46.61	46.56	46.44	46.37	46.28	46.34	46.56	46.76
DESIGN LEVELS		48.22	47.44	45.80	46.45	46.30	45.90	46.36	45.62	46.18	47.87	48.25	46.65	46.65	47.96	48.34
CUT/FILL		1.94	1.04	-0.67	-0.15	-0.25	-0.50	-0.27	-0.99	-0.37	1.43	1.88	0.37	0.31	1.40	1.58
CHAINAGE	0.00	5.00	10.00	15.00	20.00	25.00	30.00	35.00	40.00	45.00	50.00	55.00	60.00	65.00	70.00	74.18

WETLAND D1 CROSS-SECTION
SCALE: HORI 1:500 VERT 1:250

RESOURCE CONSENT

Rev	Description	By	Date
A	FAST TRACK	BD	10/2026

	By	Date
Survey	MAVEN	
Design	SM	03/2026
Drawn	JPK	03/2026
Checked	DJM	

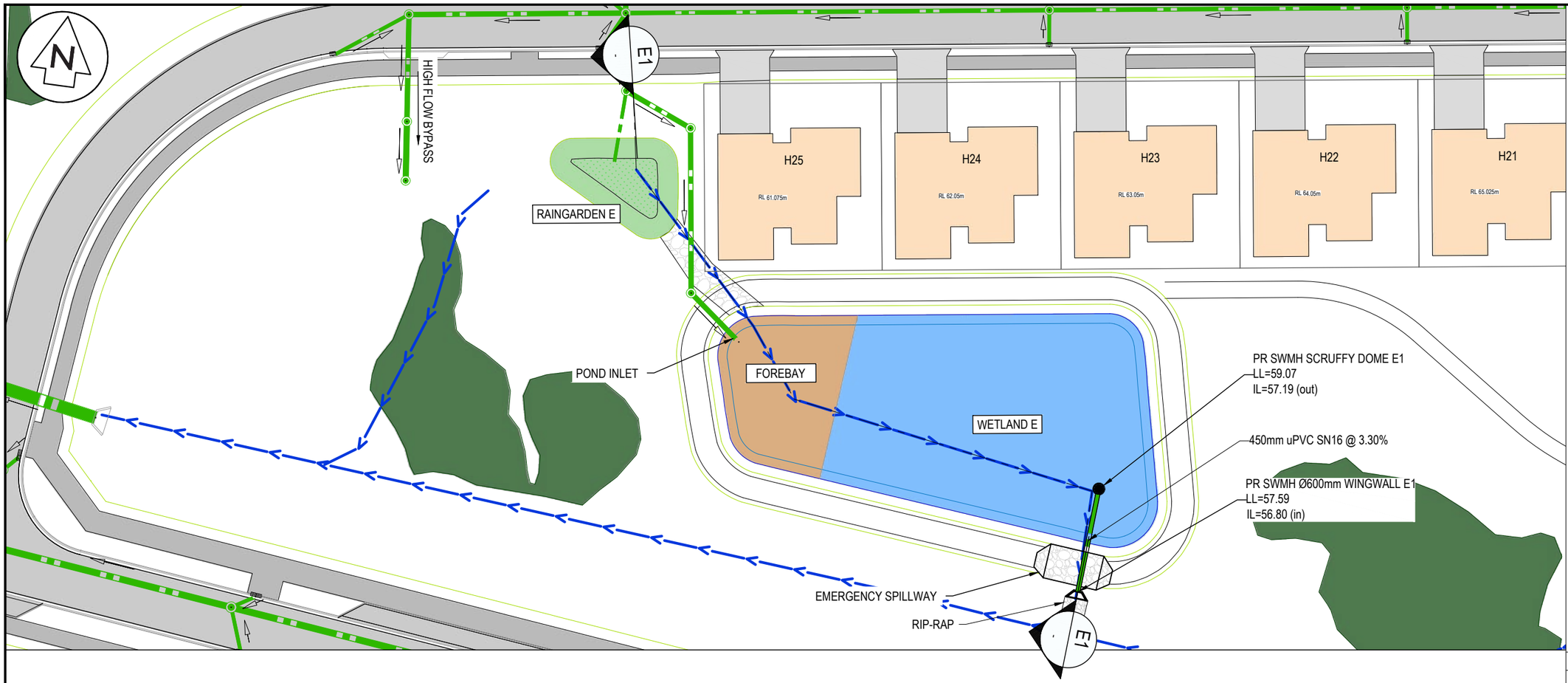
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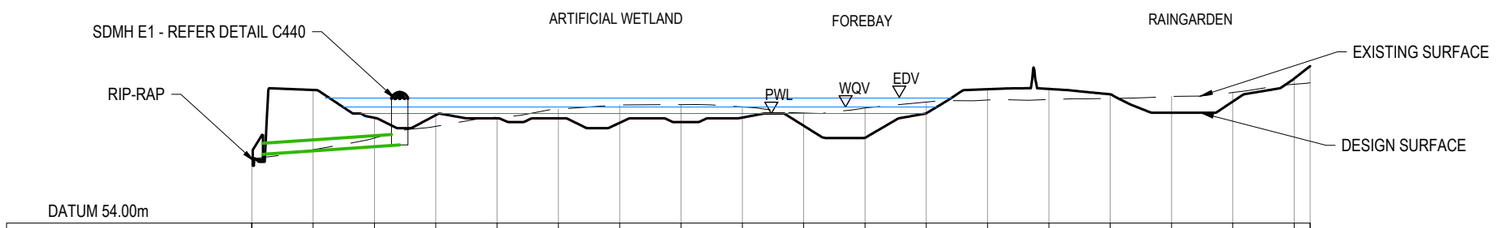
Project
HARLOW LIFESTYLE VILLAGE FOR HARLOW LIFESTYLE LTD

Title
PROPOSED STORMWATER WETLAND D1

Project no.	411001
Scale	1:500 @ A3
Cad file	411001-C435-SW WETLAND PLAN.DWG
Drawing no.	C435-4 Rev A

DATE 10/26 FILE PATH F:\MAVEN HAMILTON\6 PROJECTS\411001 - HARLOW LIFESTYLE VILLAGE\7 DRAWINGS\411001-C435-SW WETLAND PLAN.DWG





DATUM 54.00m

EXISTING LEVELS	56.62	56.99	57.47	57.94	58.32	58.65	58.82	58.83	58.74	58.49	58.69	58.94	59.02	59.04	59.08	59.16	59.32	59.66	59.72
DESIGN LEVELS		59.43	58.29	58.40	58.27	58.27	58.09	58.12	58.30	57.97	57.48	58.48	59.46	59.47	59.25	58.50	58.96	59.89	60.40
CUT/FILL		2.43	0.83	0.46	-0.05	-0.38	-0.73	-0.71	-0.44	-0.52	-1.21	-0.46	0.44	0.43	0.17	-0.66	-0.37	0.23	0.68
CHAINAGE	0.00	5.00	10.00	15.00	20.00	25.00	30.00	35.00	40.00	45.00	50.00	55.00	60.00	65.00	70.00	75.00	80.00	85.00	86.30

WETLAND E1 CROSS-SECTION
SCALE: HORI 1:500 VERT 1:250

RESOURCE CONSENT

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- PROP SW SCRUFFY
- PROP SW OUTLET
- PR WETLAND
- PR FOREBAY
- PR RAINGARDEN
- PR MAINTENANCE TRACK
- ROCK RIP RAP
- EX WETLAND WITH 10m BUFFER

Rev	Description	By	Date
A	FAST TRACK	BD	10/2026

	By	Date
Survey	MAVEN	
Design	SM	03/2026
Drawn	JPK	03/2026
Checked	DJM	

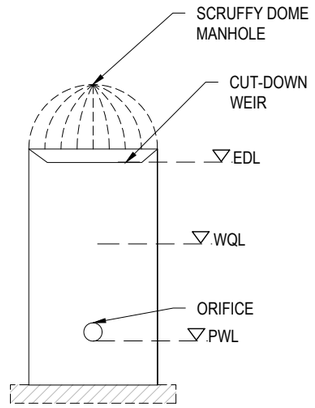
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Project
HARLOW LIFESTYLE VILLAGE FOR HARLOW LIFESTYLE LTD

Title
PROPOSED STORMWATER WETLAND E1

Project no.	411001
Scale	1:500 @ A3
Cad file	411001-C435-SW WETLAND PLAN.DWG
Drawing no.	C435-5 Rev A

DATE 10/026 FILE PATH: P:\MAVEN HAMILTON\6 PROJECTS\411001 - HARLOW LIFESTYLE VILLAGE\7 DRAWING\411001-C435-SW WETLAND PLAN.DWG



OUTLET MANHOLE TYPICAL DETAIL

SCALE 1:100

	Wetland A	Wetland B	Wetland C	Wetland D	Wetland E
Top of wetland	67.07mRL	50.55mRL	48.50mRL	48.15mRL	59.42mRL
Extended Detention Level (EDL)	65.77mRL	50.20mRL	48.10mRL	47.72mRL	59.07mRL
Water Quality Level (WQL)	65.52mRL	N/A	47.80mRL	46.80mRL	58.72mRL
Permanent Water Level (PWL)	65.27mRL	49.65mRL	47.60mRL	46.50mRL	58.47mRL
Base of wetland Level	65.07mRL	49.45mRL	47.40mRL	46.30mRL	58.27mRL
Orifice Diameter	80mmØ	70mmØ	65mmØ	70mmØ	70mmØ

RESOURCE CONSENT

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Rev	Description	By	Date
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Project
HARLOW LIFESTYLE VILLAGE FOR HARLOW LIFESTYLE LTD

Title
PROPOSED STORMWATER WETLAND SCRUFFY DOME OUTLET

Project no.	411001		
Scale	1:500 @ A3		
Cad file	411001-C435-SW WETLAND PLAN.DWG		
Drawing no.	C440	Rev	A

DATE 10/26 FILE PATH: F:\MAVEN HAMILTON\0 PROJECTS\411001 - HARLOW LIFESTYLE VILLAGE\7 DRAWINGS\411001-C435-SW WETLAND PLAN.DWG