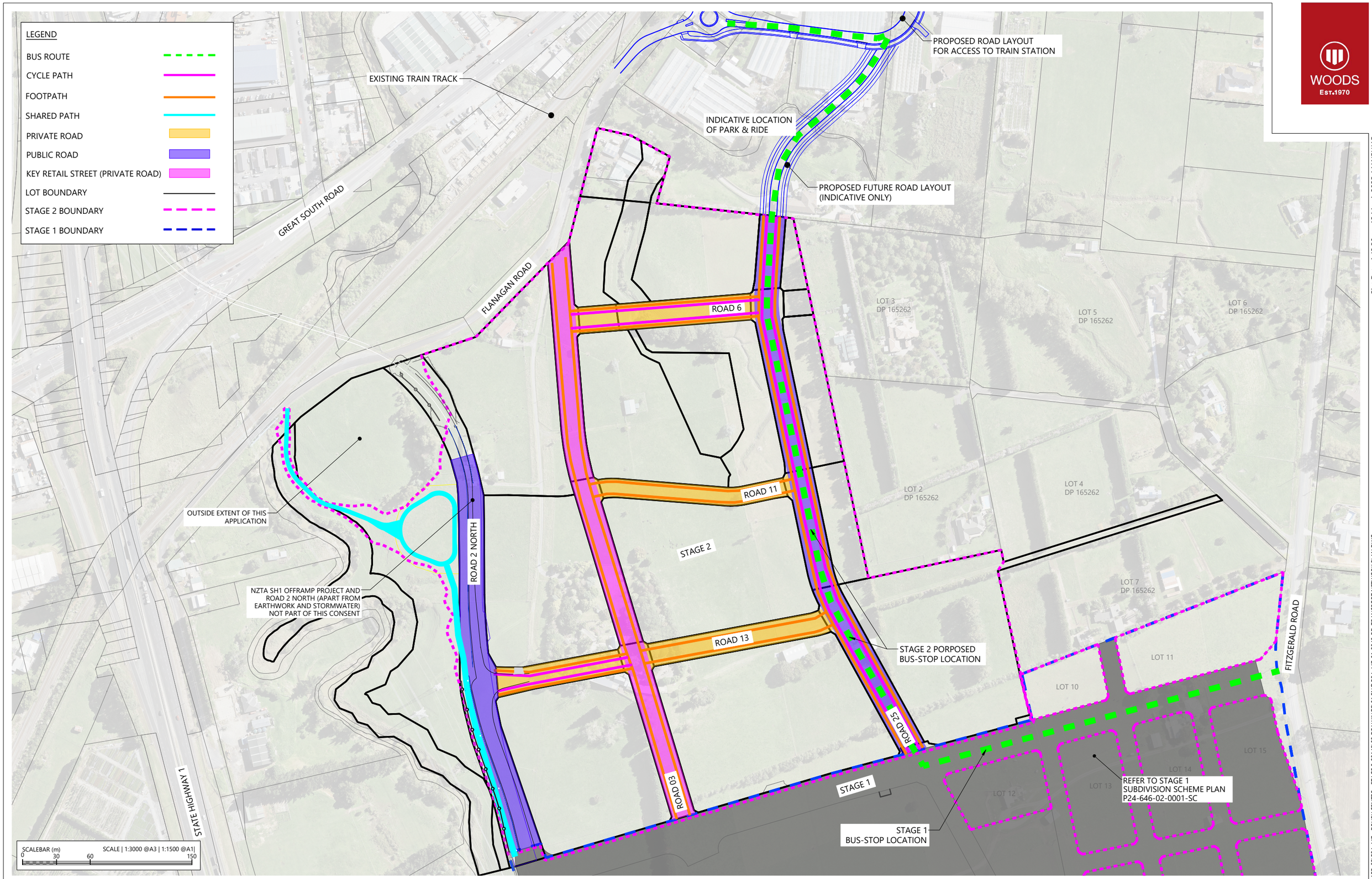

WOODS
Est.1970

Plot Date: 1:43:56 pm,12 March 2025, MANELKAF

REVISION DETAILS		INT	DATE	SURVEYED	
2	ISSUED FOR 50% DESIGN	NS	22/11/24	DESIGNED	NS
3	ISSUED FOR 90% DESIGN	NS	29/11/24	DRAWN	NS
4	ISSUED FOR 99% SUBMISSION	EW	10/02/25	CHECKED	GW
5	ISSUED FOR FAST TRACK CONSENT	EW	21/02/25	APPROVED	GW

BUILDING B, LEVEL 1
8 NUGENT ST, GRAFTON,
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DRURY CENTRE-STAGE 2

TRANSPORT NETWORK PLAN

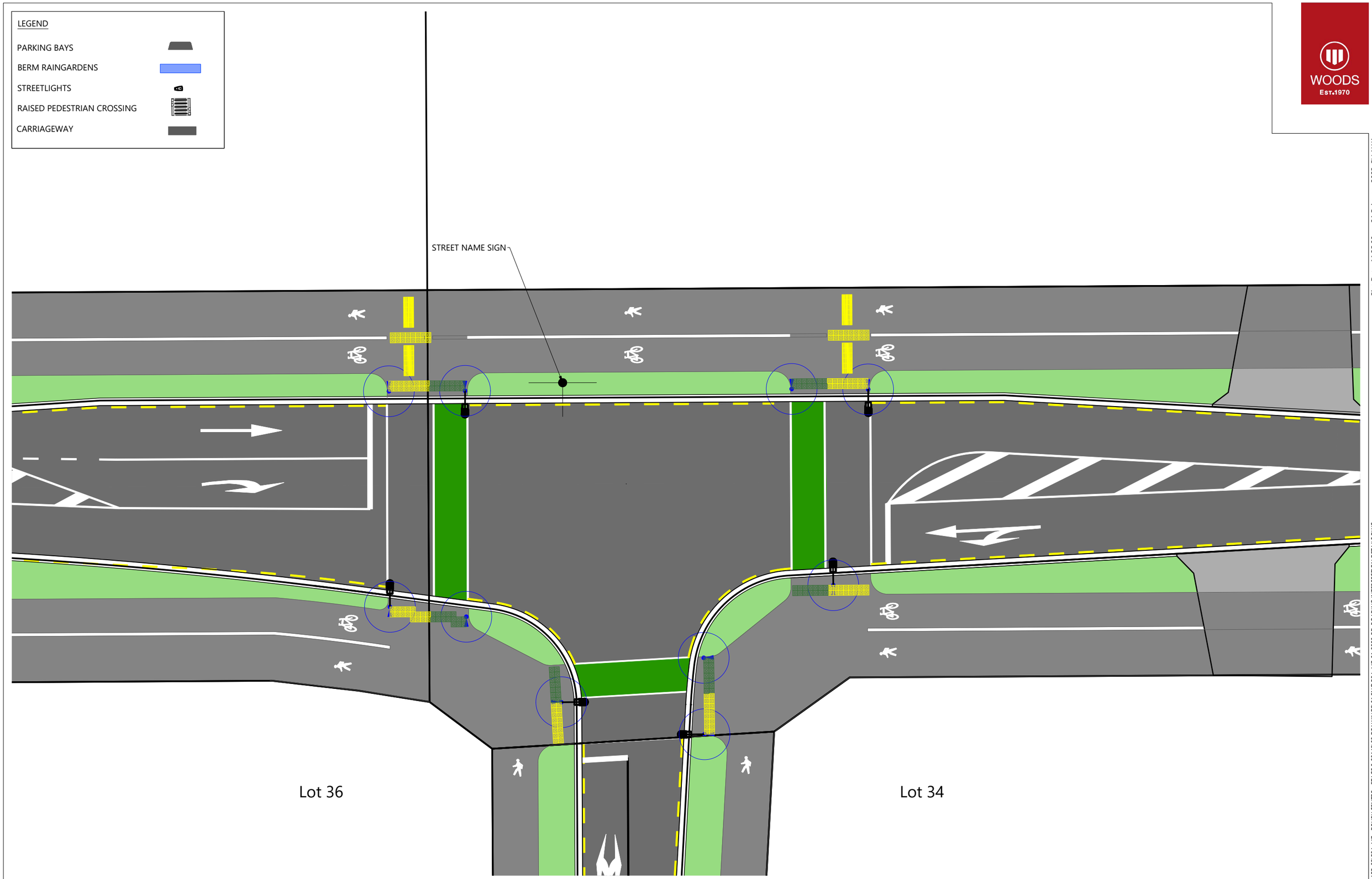
N

STATUS	FOR FAST TRACK CONSENT	REV
SCALE	1:3000 @ A3	5
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P24-447-01-2040-RD	

File: C:\12DS\DATA\WP-AKL-APP-02\P24-447 - DRURY CENTRE - STAGE 2_22140\02 DRAWINGS\01 ENG\P24-447-01-2040-RD_TRANSPORT NETWORK PLAN.DWG

LEGEND

- PARKING BAYS
- BERM RAINGARDENS
- STREETLIGHTS
- RAISED PEDESTRIAN CROSSING
- CARRIAGEWAY



REVISION DETAILS		INT	DATE	SURVEYED	
1	ISSUED FOR 90% DESIGN	NS	29/11/2024	DESIGNED	NS
2	FOR THE 99% SUBMISSION	EW	10/02/2025	DRAWN	NS
3	ISSUED FOR RAST TRACK CONSENT	EW	21/02/2025	CHECKED	GW
				APPROVED	GW

BUILDING B, LEVEL 1
8 NUGENT ST, GRAFTON,
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Kiwi Property

DRURY CENTRE-STAGE 2

PROPOSED SIGNALISED T-INTERSECTION DETAIL

STATUS	FOR FAST TRACK CONSENT
SCALE	1:200 @ A3
COUNCIL	AUCKLAND COUNCIL
DWG NO	P24-447-01-2050-RD
REV	3

Plot Date: 11:35:00 am,21 February 2025, ELLAWA

File: C:\12DS\DATA\WP-AKL-APP-02\P24-447 - DRURY CENTRE - STAGE 2_22140\02 DRAWINGS\01 ENG\P24-447-01-2050-RD_ROADING INTERSECTION DETAILS.DWG

LEGEND

- PARKING BAYS
- BERM RAINGARDENS
- STREETLIGHTS
- RAISED PEDESTRIAN CROSSING
- CARRIAGEWAY

STREET NAME SIGN

STREET NAME SIGN

LOT 37

LOT 36

REVISION DETAILS		INT	DATE	SURVEYED	
1	ISSUED FOR 90% DESIGN	NS	29/11/2024	DESIGNED	NS
2	FOR THE 99% SUBMISSION	EW	10/02/2025	DRAWN	NS
3	ISSUED FOR RAST TRACK CONSENT	EW	21/02/2025	CHECKED	GW
				APPROVED	GW

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

DRURY CENTRE-STAGE 2

PROPOSED T-INTERSECTION DETAIL

STATUS	FOR FAST TRACK CONSENT
SCALE	1:200 @ A3
COUNCIL	AUCKLAND COUNCIL
DWG NO	P24-447-01-2051-RD
REV	3

Plot Date: 11:35:00 am,21 February 2025, ELLAWA

File: C:\12DS\DATA\WP-AKL-APP-02\P24-447 - DRURY CENTRE - STAGE 2_22140\02 DRAWINGS\01 ENG\P24-447-01-2050-RD_ROADING INTERSECTION DETAILS.DWG

LEGEND

- PARKING BAYS
- BERM RAINGARDENS
- STREETLIGHTS
- RAISED PEDESTRIAN CROSSING
- CARRIAGEWAY

STREET NAME SIGN

STREET NAME SIGN

LOT 33

LOT 31

REVISION DETAILS		INT	DATE	SURVEYED	
1	ISSUED FOR 90% DESIGN	NS	29/11/2024	DESIGNED	NS
2	FOR THE 99% SUBMISSION	EW	10/02/2025	DRAWN	NS
3	ISSUED FOR RAST TRACK CONSENT	EW	21/02/2025	CHECKED	GW
				APPROVED	GW

BUILDING B, LEVEL 1
8 NUGENT ST, GRAFTON,
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Kiwi Property

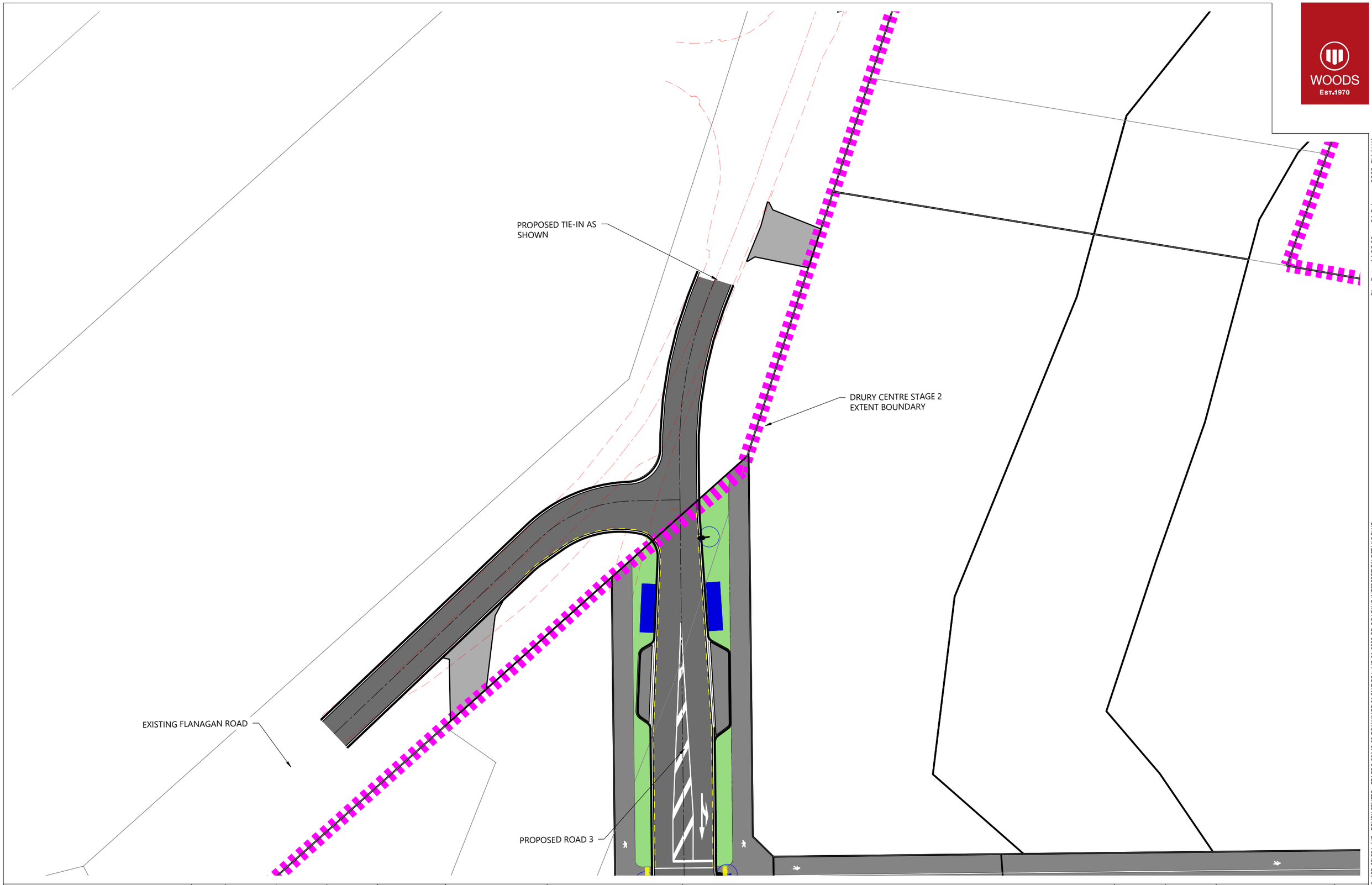
DRURY CENTRE-STAGE 2

PROPOSED SIGNALISED CROSS-INTERSECTION DETAIL

STATUS	FOR FAST TRACK CONSENT
SCALE	1:200 @ A3
COUNCIL	AUCKLAND COUNCIL
DWG NO	P24-447-01-2052-RD
REV	3

Plot Date: 11:35:01 am,21 February 2025, ELLAWA

File: C:\12DS\DATA\WP-AKL-APP-02\P24-447 - DRURY CENTRE - STAGE 2_22140\02 DRAWINGS\01 ENG\P24-447-01-2050-RD_ROADING INTERSECTION DETAILS.DWG



WOODS
Est.1970

Plot Date: 11:35:02 am,21 February 2025, ELLAWA

REVISION DETAILS		INT	DATE	SURVEYED	
1	ISSUED FOR DISCUSSION	NS	03/12/2024	DESIGNED	NS
2	FOR THE 99% SUBMISSION	EW	10/02/2025	DRAWN	NS
3	ISSUED FOR RAST TRACK CONSENT	EW	21/02/2025	CHECKED	GW
				APPROVED	GW

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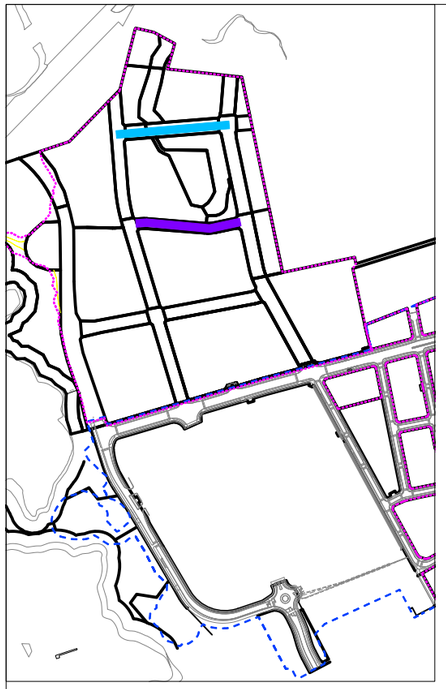
DRURY CENTRE-STAGE 2

PROPOSED ROAD 3 & FLANAGAN ROAD INTERSECTION DETAIL

STATUS	FOR FAST TRACK CONSENT	REV
SCALE	1:500 @ A3	3
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P24-447-01-2053-RD	

File: C:\12DSDATA\WP-AKL-APP-02\P24-447 - DRURY CENTRE - STAGE 2_22140\02 DRAWINGS\01 ENG\P24-447-01-2050-RD_ROADING INTERSECTION DETAILS.DWG

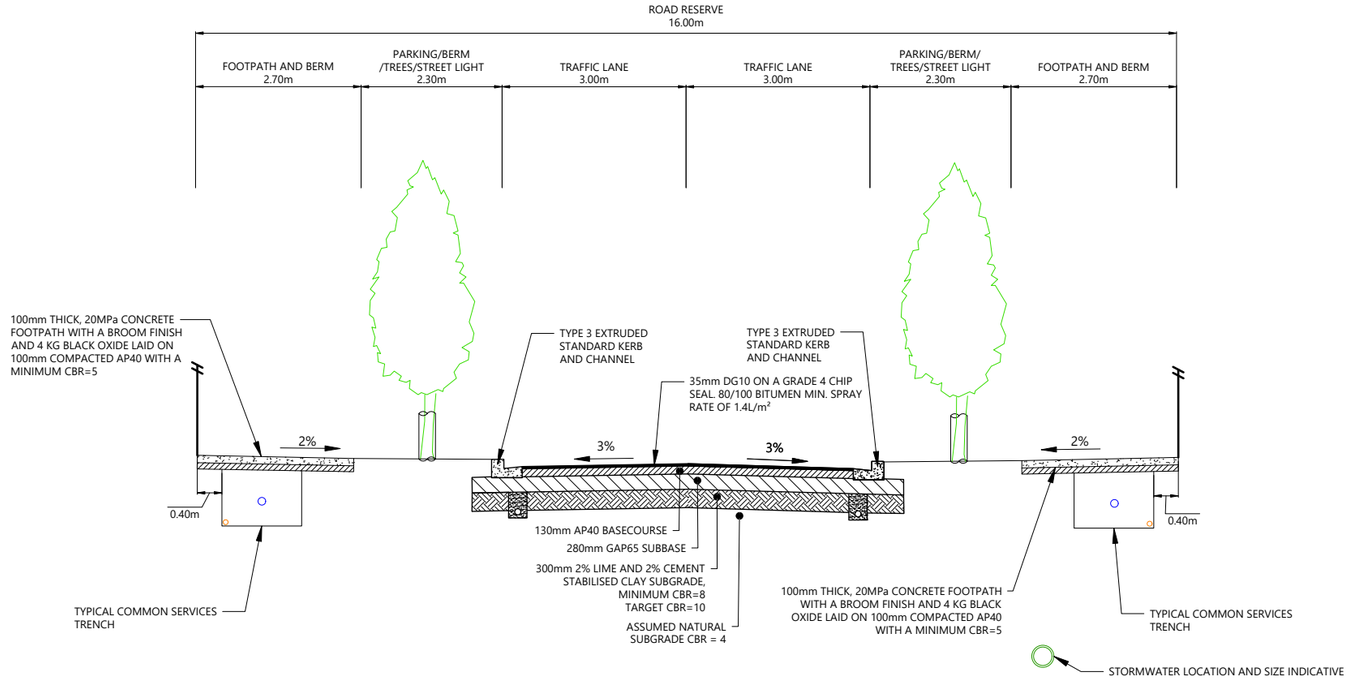


LEGEND:

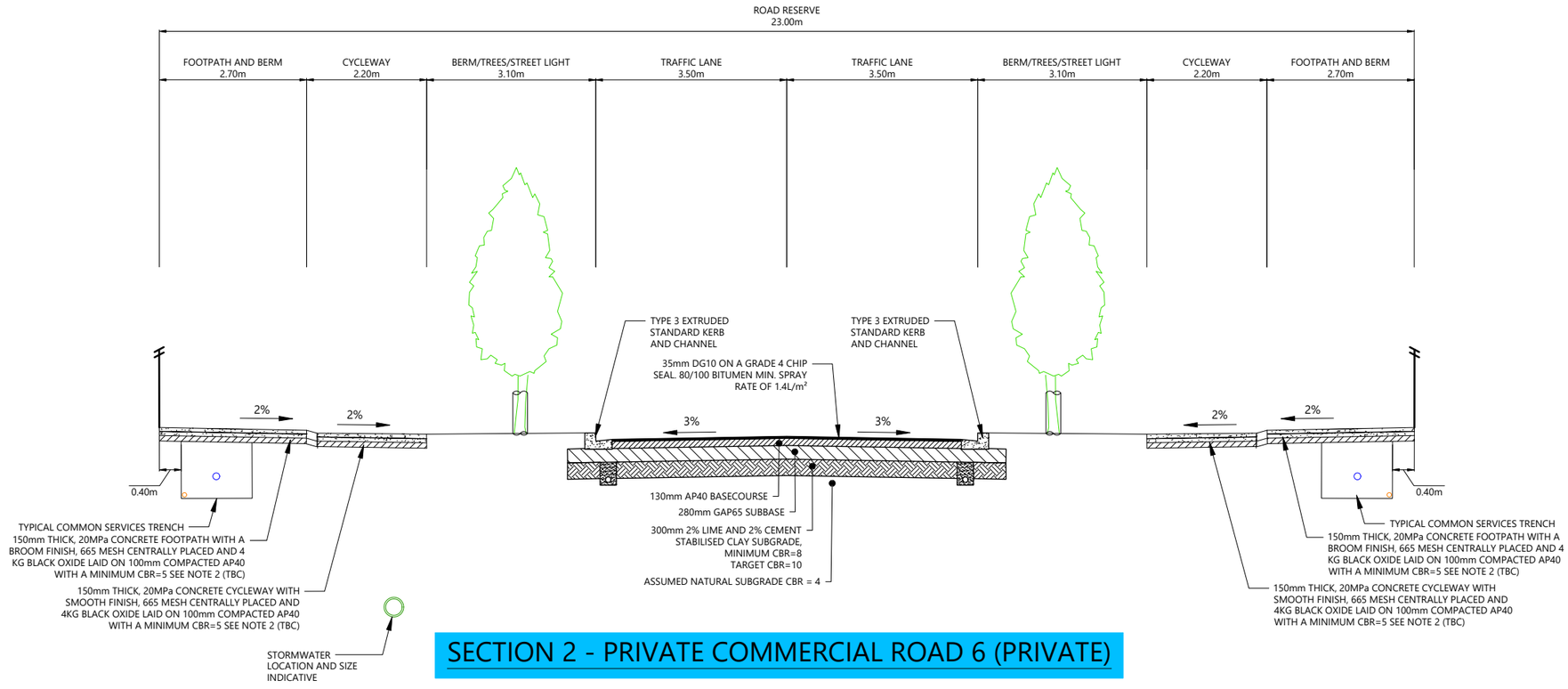
- COLLECTOR ROAD (BUS ROUTE)
- COLLECTOR ROAD (NON-BUS ROUTE)
- PRIVATE COMMERIAL ROAD 11
- PRIVATE COMMERIAL ROAD 6
- PRIVATE COMMERIAL ROAD 13 (ROAD 3 WEST)
- PRIVATE COMMERIAL ROAD 13 (ROAD 3 EAST)
- KEY RETAIL STREET

NOTES:

1. AUCKLAND TRANSPORT APPROVED ASPHALT MIXES ARE TO BE USED
2. CONTRACTOR TO CONFIRM TO ENGINEER INSITU SUBGRADE CBR PRIOR TO TRIMMING TO FINAL SUBGRADE LEVELS TO CONFIRM PAVEMENT DEPTHS
3. DEFLECTION AND CURVATURE ON ROAD PAVEMENT TO BE AS FOLLOWS:
   COLLECTOR ROADS
   DEFLECTION 1.0mm CURVATURE 0.15mm
   PRIVATE ROADS
   DEFLECTION 1.4mm
   NO REQUIREMENT TO TEST FOR CURVATURE ON PRIVATE ROAD
4. ALL WORKS AND MATERIALS ARE TO COMPLY WITH AUCKLAND TRANSPORT STANDARDS. ANY AMBIGUITY BETWEEN DRAWINGS AND COUNCIL STANDARDS ARE TO BE REPORTED TO THE ENGINEER FOR CLARIFICATION.
5. PRAM CROSSINGS ARE TO BE CONSTRUCTED AS PER AUCKLAND TRANSPORT STANDARDS.
6. SERVICE TRENCHES SHOWN ARE INDICATIVE ONLY. ALL DUCTS/PIPES ARE TO BE POSITIONED AS PER RELEVANT SERVICE PROVIDER STANDARDS
7. ALL UNDERCHANNELS AND SUBSOIL DRAINS ARE TO COMPLY WITH AT TDM STANDARD DETAIL KC0007 UNLESS OTHERWISE NOTED.
8. ALL SUBSOIL DRAINAGE TO BE CONNECTED TO THE UPSTREAM CESSPIT AND CAPPED FOR FUTURE MAINTENANCE.
9. ALL LANE MARKING AND ROAD SIGNAGE IS TO BE CONSTRUCTED AS PER THE NEW ZEALAND TRANSPORT AGENCY (NZTA) MANUAL OF TRAFFIC SIGNS AND MARKINGS
10. CONCRETE SAWCUTS ON FOOTPATHS AND KERBS TO BE AT 3m CENTRES. SAWCUT TO BE 1/4 SLAB DEPTH.
11. IF WEAKER SUBGRADE ARE ENCOUNTERED AGREEMENT WITH THE ENGINEER IS REQUIRED PRIOR TO CONSTRUCTION OF ANY CONTINGENCY PAVEMENT.



SECTION 1 - PRIVATE COMMERCIAL ROAD 11 (PRIVATE)



SECTION 2 - PRIVATE COMMERCIAL ROAD 6 (PRIVATE)

REVISION DETAILS		INT	DATE	SURVEYED	
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4	ISSUED FOR 90% DESIGN	NS	29/11/24	DRAWN	EW
5	FOR THE 99% SUBMISSION	EW	10/02/25	CHECKED	GW
6	FOR FAST TRACK CONSENT	EW	21/02/25	APPROVED	GW

BUILDING B, LEVEL 1
8 NUGENT ST, GRAFTON,
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Kiwi Property

DRURY CENTRE-STAGE 2

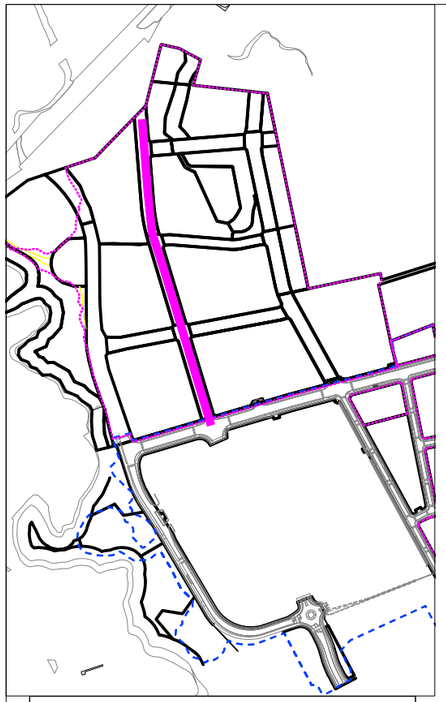
TYPICAL ROAD CROSS SECTION - (SHEET 1 OF 5)

STATUS	FOR FAST TRACK CONSENT	REV
SCALE	1:100 @ A3	6
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P24-447-01-2200-RD	

WOODS
Est.1970

Plot Date: 11:35:02 am,21 February 2025, ELLAWA

File: C:\12DS\DATA\WP-AKL-APP-02\P24-447 - DRURY CENTRE - STAGE 2_22140\02 DRAWINGS\01 ENG\P24-447-01-2200-RD_TYPICAL ROAD CROSS SECTIONS.DWG

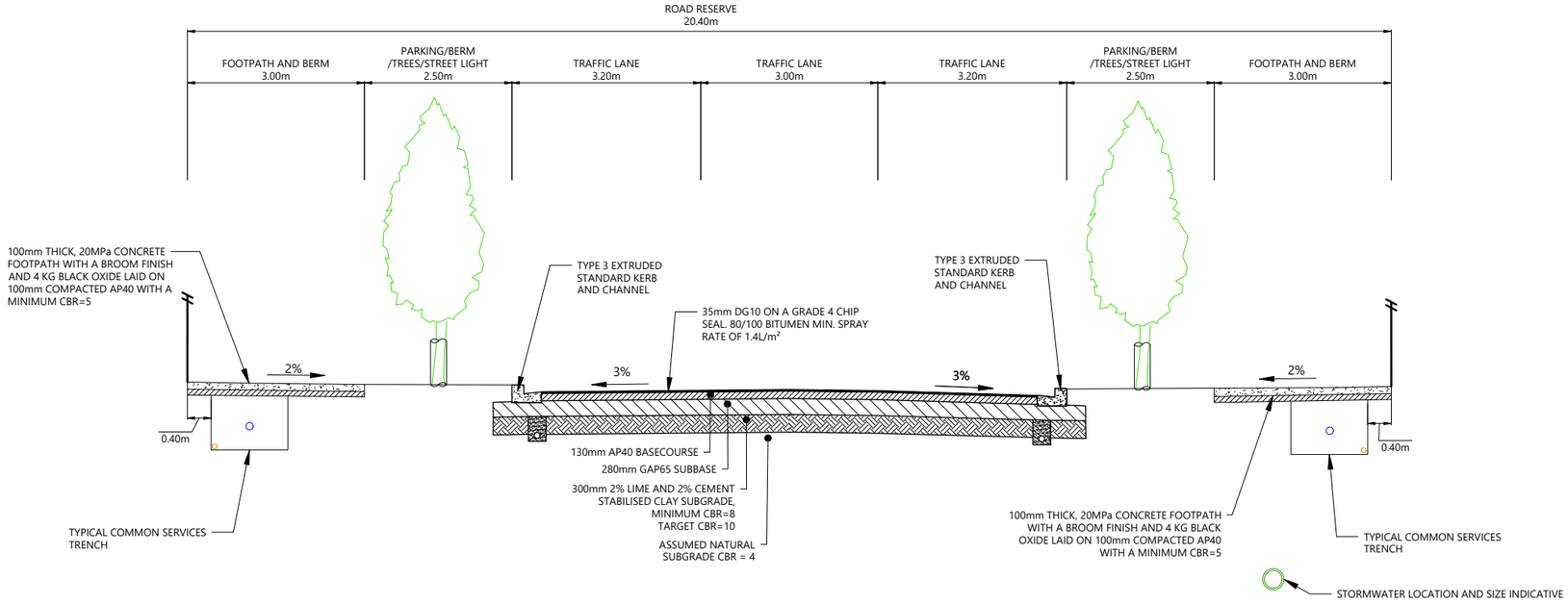


LEGEND:

- COLLECTOR ROAD (BUS ROUTE)
- COLLECTOR ROAD (NON-BUS ROUTE)
- PRIVATE COMMERIAL ROAD 11
- PRIVATE COMMERIAL ROAD 6
- PRIVATE COMMERIAL ROAD 13 (ROAD 3 WEST)
- PRIVATE COMMERIAL ROAD 13 (ROAD 3 EAST)
- KEY RETAIL STREET

NOTES:

1. AUCKLAND TRANSPORT APPROVED ASPHALT MIXES ARE TO BE USED
2. CONTRACTOR TO CONFIRM TO ENGINEER INSITU SUBGRADE CBR PRIOR TO TRIMMING TO FINAL SUBGRADE LEVELS TO CONFIRM PAVEMENT DEPTHS
3. DEFLECTION AND CURVATURE ON ROAD PAVEMENT TO BE AS FOLLOWS:
   COLLECTOR ROADS
   DEFLECTION 1.0mm CURVATURE 0.15mm
   PRIVATE ROADS
   DEFLECTION 1.4mm
   NO REQUIREMENT TO TEST FOR CURVATURE ON PRIVATE ROAD
4. ALL WORKS AND MATERIALS ARE TO COMPLY WITH AUCKLAND TRANSPORT STANDARDS. ANY AMBIGUITY BETWEEN DRAWINGS AND COUNCIL STANDARDS ARE TO BE REPORTED TO THE ENGINEER FOR CLARIFICATION.
5. PRAM CROSSINGS ARE TO BE CONSTRUCTED AS PER AUCKLAND TRANSPORT STANDARDS.
6. SERVICE TRENCHES SHOWN ARE INDICATIVE ONLY. ALL DUCTS/PIPES ARE TO BE POSITIONED AS PER RELEVANT SERVICE PROVIDER STANDARDS
7. ALL UNDERCHANNELS AND SUBSOIL DRAINS ARE TO COMPLY WITH AT TDM STANDARD DETAIL KC0007 UNLESS OTHERWISE NOTED.
8. ALL SUBSOIL DRAINAGE TO BE CONNECTED TO THE UPSTREAM CESSPIT AND CAPPED FOR FUTURE MAINTENANCE.
9. ALL LANE MARKING AND ROAD SIGNAGE IS TO BE CONSTRUCTED AS PER THE NEW ZEALAND TRANSPORT AGENCY (NZTA) MANUAL OF TRAFFIC SIGNS AND MARKINGS
10. CONCRETE SAWCUTS ON FOOTPATHS AND KERBS TO BE AT 3m CENTRES. SAWCUT TO BE 1/4 SLAB DEPTH.
11. IF WEAKER SUBGRADE ARE ENCOUNTERED AGREEMENT WITH THE ENGINEER IS REQUIRED PRIOR TO CONSTRUCTION OF ANY CONTINGENCY PAVEMENT.



SECTION 3 - KEY RETAIL STREET (PRIVATE)

WOODS Est.1970

Plot Date: 11:35:03 am,21 February 2025, ELLAWA

REVISION DETAILS		INT	DATE	SURVEYED	
3	ISSUED FOR 50% DESIGN	NS	22/11/24	DESIGNED	EW
4	ISSUED FOR 90% DESIGN	NS	29/11/24	DRAWN	EW
5	FOR THE 99% SUBMISSION	EW	10/02/25	CHECKED	GW
6	FOR FAST TRACK CONSENT	EW	21/02/25	APPROVED	GW

BUILDING B, LEVEL 1
8 NUGENT ST, GRAFTON,
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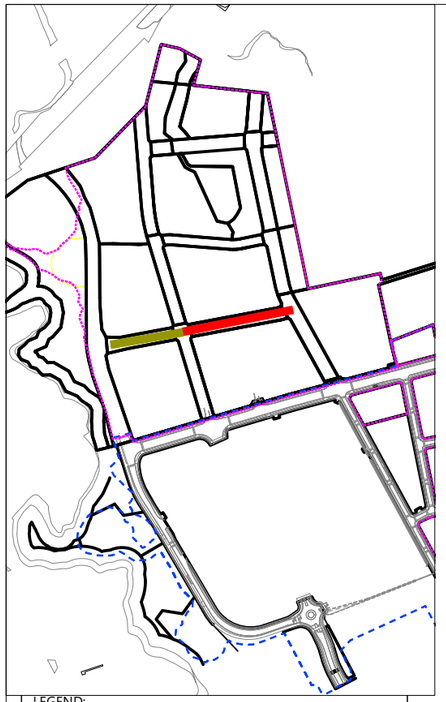
DRURY CENTRE-STAGE 2

TYPICAL ROAD CROSS SECTION - (SHEET 2 OF 5)

STATUS	FOR FAST TRACK CONSENT	REV
SCALE	1:100 @ A3	6
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P24-447-01-2201-RD	

File: C:\12DS\DATA\WP-AKL-APP-02\P24-447 - DRURY CENTRE - STAGE 2_22140\02 DRAWINGS\01 ENG\P24-447-01-2200-RD_TYPICAL ROAD CROSS SECTIONS.DWG

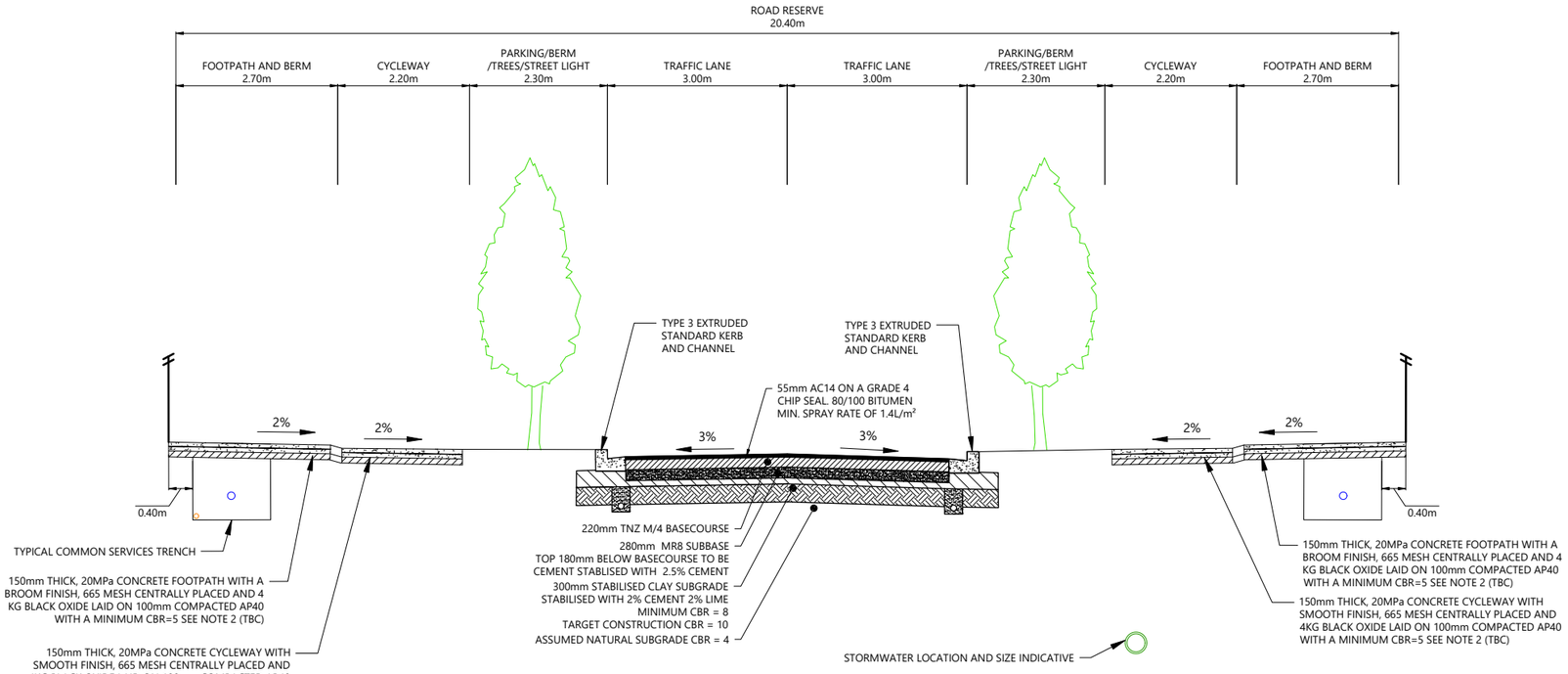


LEGEND:

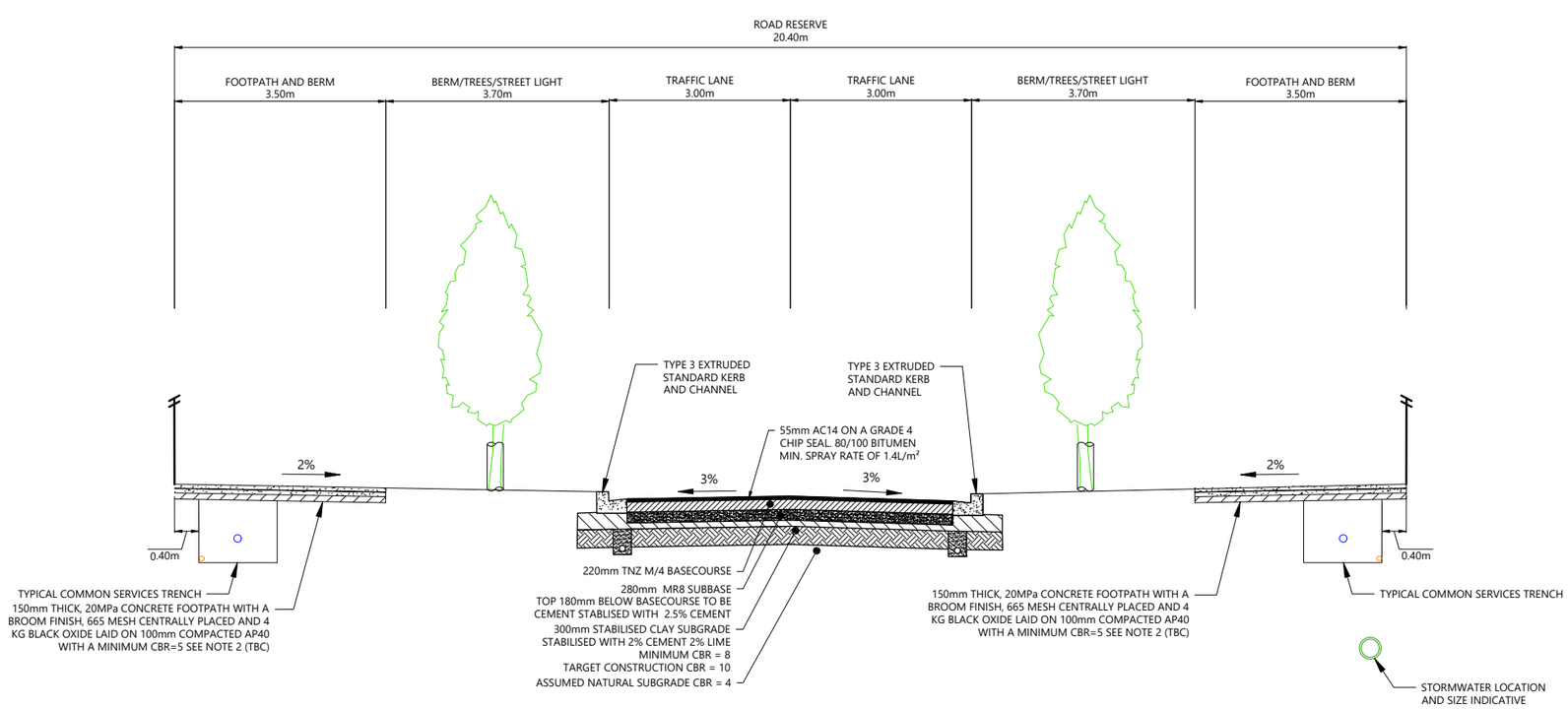
- COLLECTOR ROAD (BUS ROUTE)
- COLLECTOR ROAD (NON-BUS ROUTE)
- PRIVATE COMMERIAL ROAD 11
- PRIVATE COMMERIAL ROAD 6
- PRIVATE COMMERIAL ROAD 13 (ROAD 3 WEST)
- PRIVATE COMMERIAL ROAD 13 (ROAD 3 EAST)
- KEY RETAIL STREET

NOTES:

1. AUCKLAND TRANSPORT APPROVED ASPHALT MIXES ARE TO BE USED
2. CONTRACTOR TO CONFIRM TO ENGINEER INSITU SUBGRADE CBR PRIOR TO TRIMMING TO FINAL SUBGRADE LEVELS TO CONFIRM PAVEMENT DEPTHS
3. DEFLECTION AND CURVATURE ON ROAD PAVEMENT TO BE AS FOLLOWS:
   COLLECTOR ROADS
   DEFLECTION 1.0mm CURVATURE 0.15mm
   PRIVATE ROADS
   DEFLECTION 1.4mm
   NO REQUIREMENT TO TEST FOR CURVATURE ON PRIVATE ROAD
4. ALL WORKS AND MATERIALS ARE TO COMPLY WITH AUCKLAND TRANSPORT STANDARDS. ANY AMBIGUITY BETWEEN DRAWINGS AND COUNCIL STANDARDS ARE TO BE REPORTED TO THE ENGINEER FOR CLARIFICATION.
5. PRAM CROSSINGS ARE TO BE CONSTRUCTED AS PER AUCKLAND TRANSPORT STANDARDS.
6. SERVICE TRENCHES SHOWN ARE INDICATIVE ONLY. ALL DUCTS/PIPES ARE TO BE POSITIONED AS PER RELEVANT SERVICE PROVIDER STANDARDS
7. ALL UNDERCHANNELS AND SUBSOIL DRAINS ARE TO COMPLY WITH AT TDM STANDARD DETAIL KC0007 UNLESS OTHERWISE NOTED.
8. ALL SUBSOIL DRAINAGE TO BE CONNECTED TO THE UPSTREAM CESSPIT AND CAPPED FOR FUTURE MAINTENANCE.
9. ALL LANE MARKING AND ROAD SIGNAGE IS TO BE CONSTRUCTED AS PER THE NEW ZEALAND TRANSPORT AGENCY (NZTA) MANUAL OF TRAFFIC SIGNS AND MARKINGS
10. CONCRETE SAWCUTS ON FOOTPATHS AND KERBS TO BE AT 3m CENTRES. SAWCUT TO BE 1/4 SLAB DEPTH.
11. IF WEAKER SUBGRADE ARE ENCOUNTERED AGREEMENT WITH THE ENGINEER IS REQUIRED PRIOR TO CONSTRUCTION OF ANY CONTINGENCY PAVEMENT.



SECTION 4 - PRIVATE COMMERCIAL ROAD 13 WEST (PRIVATE)



SECTION 5 - PRIVATE COMMERCIAL ROAD 13 EAST (PRIVATE)

REVISION DETAILS		INT	DATE	SURVEYED	
3	ISSUED FOR 50% DESIGN	NS	22/11/24	DESIGNED	EW
4	ISSUED FOR 90% DESIGN	NS	29/11/24	DRAWN	EW
5	FOR THE 99% SUBMISSION	EW	10/02/25	CHECKED	GW
6	FOR FAST TRACK CONSENT	EW	21/02/25	APPROVED	GW

BUILDING B, LEVEL 1
8 NUGENT ST, GRAFTON,
AUCKLAND 1023
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Kiwi Property

DRURY CENTRE-STAGE 2

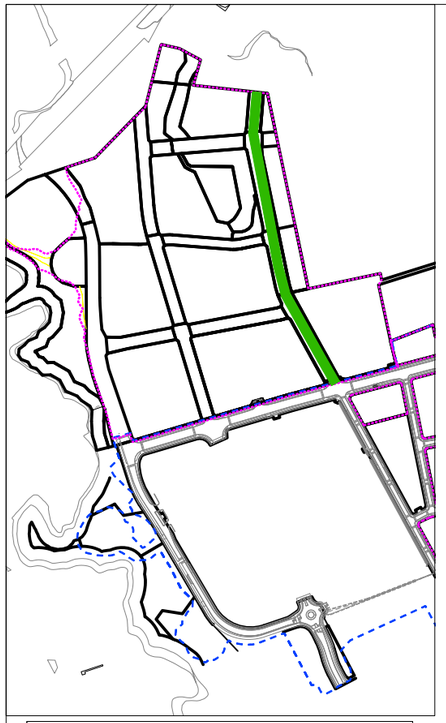
TYPICAL ROAD CROSS SECTION - (SHEET 3 OF 5)

STATUS	FOR FAST TRACK CONSENT	REV
SCALE	1:100 @ A3	6
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P24-447-01-2202-RD	

WOODS Est.1970

Plot Date: 11:49:27 am,12 March 2025, MANELKAF

File: C:\12DS\DATA\WP-AKL-APP-02\P24-447 - DRURY CENTRE - STAGE 2_22140\02 DRAWINGS\01 ENG\P24-447-01-2200-RD_TYPICAL ROAD CROSS SECTIONS.DWG

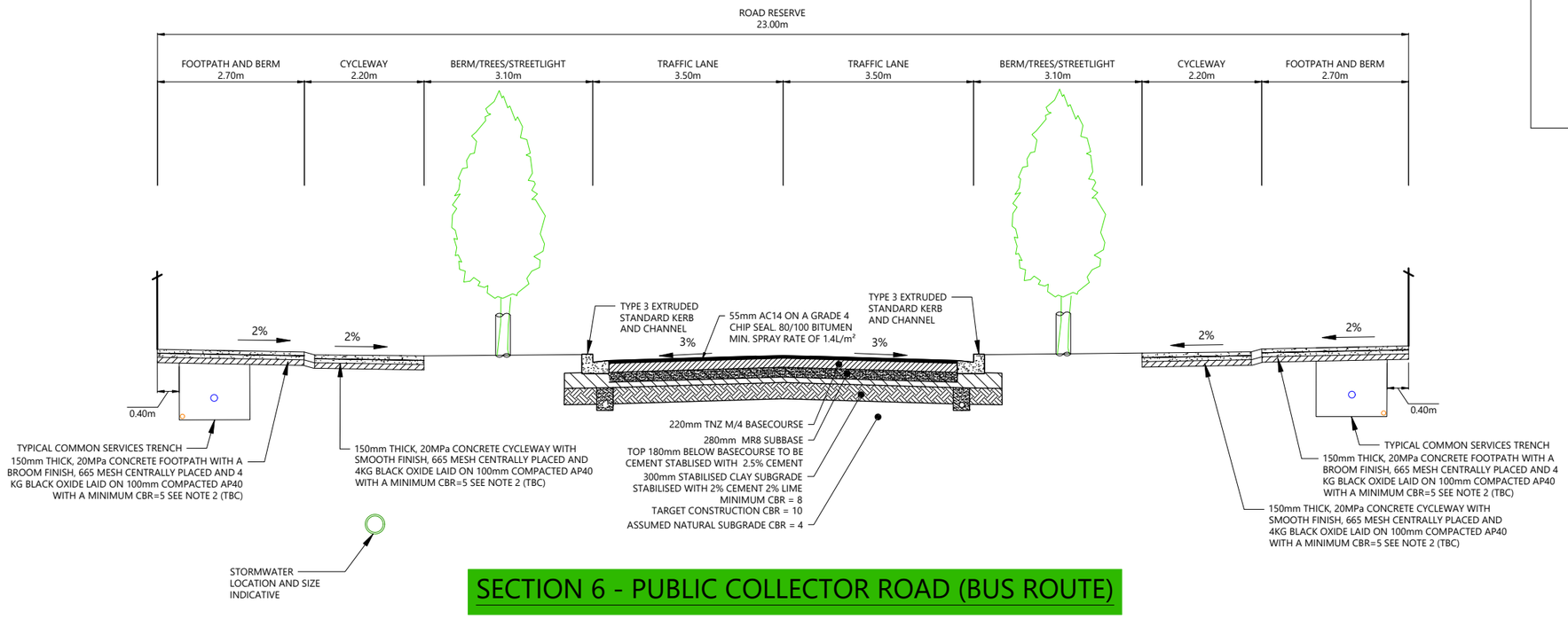


LEGEND:

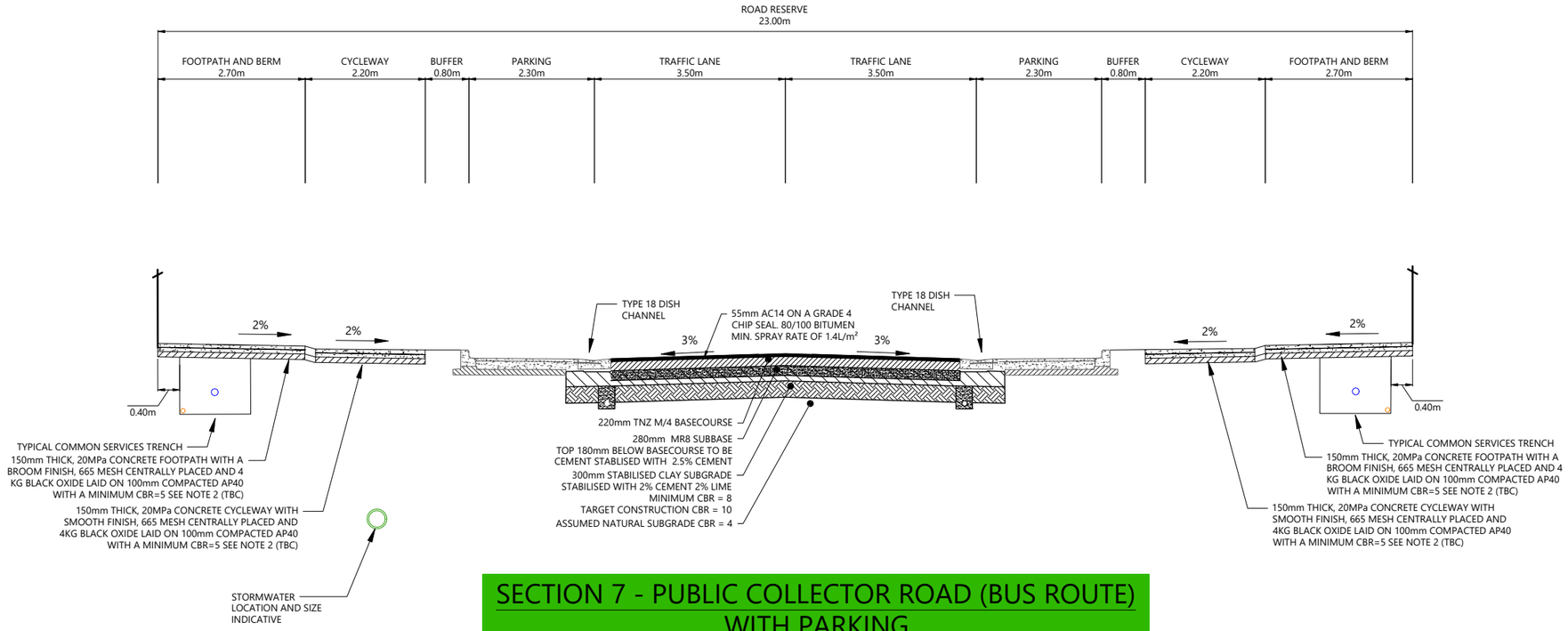
- COLLECTOR ROAD (BUS ROUTE)
- COLLECTOR ROAD (NON-BUS ROUTE)
- PRIVATE COMMERIAL ROAD 11
- PRIVATE COMMERIAL ROAD 6
- PRIVATE COMMERIAL ROAD 13 (ROAD 3 WEST)
- PRIVATE COMMERIAL ROAD 13 (ROAD 3 EAST)
- KEY RETAIL STREET

NOTES:

1. AUCKLAND TRANSPORT APPROVED ASPHALT MIXES ARE TO BE USED
2. CONTRACTOR TO CONFIRM TO ENGINEER INSITU SUBGRADE CBR PRIOR TO TRIMMING TO FINAL SUBGRADE LEVELS TO CONFIRM PAVEMENT DEPTHS
3. DEFLECTION AND CURVATURE ON ROAD PAVEMENT TO BE AS FOLLOWS:
   COLLECTOR ROADS
   DEFLECTION 1.0mm CURVATURE 0.15mm
   PRIVATE ROADS
   DEFLECTION 1.4mm
   NO REQUIREMENT TO TEST FOR CURVATURE ON PRIVATE ROAD
4. ALL WORKS AND MATERIALS ARE TO COMPLY WITH AUCKLAND TRANSPORT STANDARDS. ANY AMBIGUITY BETWEEN DRAWINGS AND COUNCIL STANDARDS ARE TO BE REPORTED TO THE ENGINEER FOR CLARIFICATION.
5. PRAM CROSSINGS ARE TO BE CONSTRUCTED AS PER AUCKLAND TRANSPORT STANDARDS.
6. SERVICE TRENCHES SHOWN ARE INDICATIVE ONLY. ALL DUCTS/PIPES ARE TO BE POSITIONED AS PER RELEVANT SERVICE PROVIDER STANDARDS
7. ALL UNDERCHANNELS AND SUBSOIL DRAINS ARE TO COMPLY WITH AT TDM STANDARD DETAIL KC0007 UNLESS OTHERWISE NOTED.
8. ALL SUBSOIL DRAINAGE TO BE CONNECTED TO THE UPSTREAM CESSPIT AND CAPPED FOR FUTURE MAINTENANCE.
9. ALL LANE MARKING AND ROAD SIGNAGE IS TO BE CONSTRUCTED AS PER THE NEW ZEALAND TRANSPORT AGENCY (NZTA) MANUAL OF TRAFFIC SIGNS AND MARKINGS
10. CONCRETE SAWCUTS ON FOOTPATHS AND KERBS TO BE AT 3m CENTRES. SAWCUT TO BE 1/4 SLAB DEPTH.
11. IF WEAKER SUBGRADE ARE ENCOUNTERED AGREEMENT WITH THE ENGINEER IS REQUIRED PRIOR TO CONSTRUCTION OF ANY CONTINGENCY PAVEMENT.



SECTION 6 - PUBLIC COLLECTOR ROAD (BUS ROUTE)



SECTION 7 - PUBLIC COLLECTOR ROAD (BUS ROUTE) WITH PARKING

REVISION DETAILS		INT	DATE	SURVEYED	
3	ISSUED FOR 50% DESIGN	NS	22/11/24	DESIGNED	EW
4	ISSUED FOR 90% DESIGN	NS	29/11/24	DRAWN	EW
5	FOR THE 99% SUBMISSION	EW	10/02/25	CHECKED	GW
6	FOR FAST TRACK CONSENT	EW	21/02/25	APPROVED	GW

BUILDING B, LEVEL 1
8 NUGENT ST, GRAFTON,
AUCKLAND 1023
+64 9 308 9229
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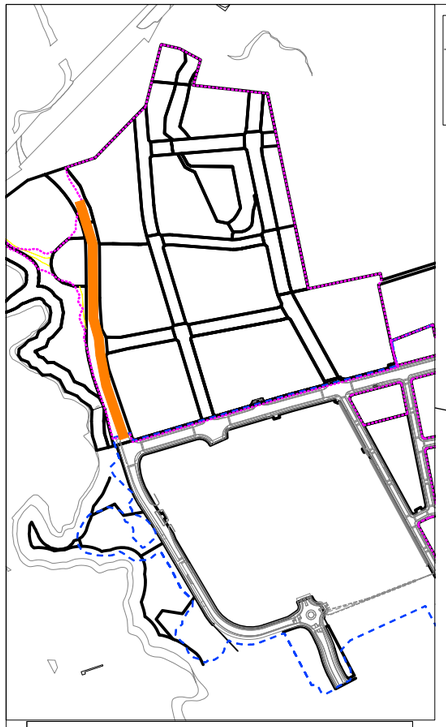
DRURY CENTRE-STAGE 2

TYPICAL ROAD CROSS SECTION - (SHEET 4 OF 5)

STATUS	FOR FAST TRACK CONSENT	REV
SCALE	1:100 @ A3	6
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P24-447-01-2203-RD	

Plot Date: 11:35:04 am,21 February 2025, ELLAWA
File: C:\12DS\DATA\WP-AKL-APP-02\P24-447 - DRURY CENTRE - STAGE 2_22140\02 DRAWINGS\01 ENG\P24-447-01-2200-RD_TYPICAL ROAD CROSS SECTIONS.DWG



LEGEND:

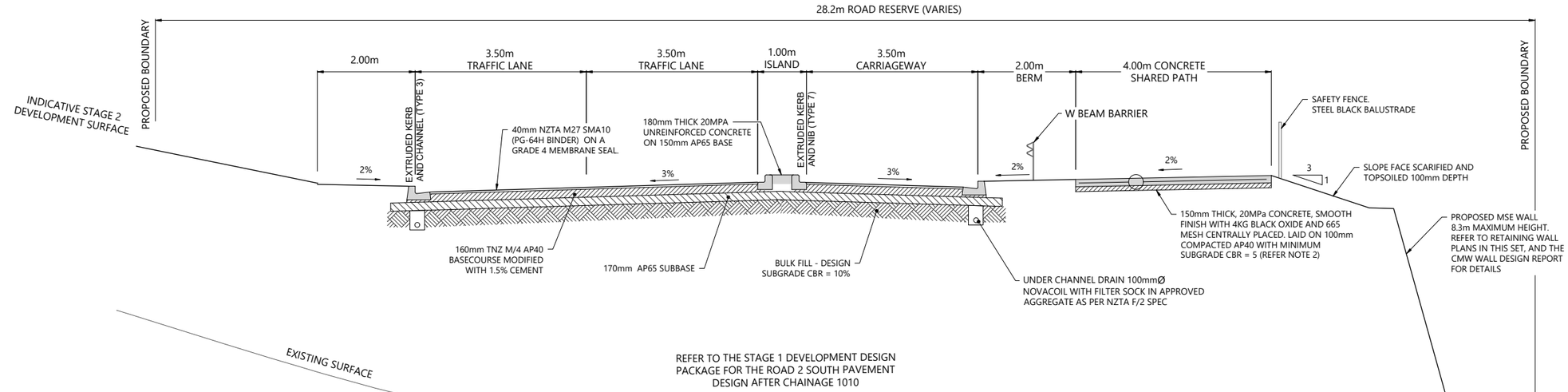
- COLLECTOR ROAD (BUS ROUTE)
- COLLECTOR ROAD (NON-BUS ROUTE)
- PRIVATE COMMERIAL ROAD 11
- PRIVATE COMMERIAL ROAD 6
- PRIVATE COMMERIAL ROAD 13 (ROAD 3 WEST)
- PRIVATE COMMERIAL ROAD 13 (ROAD 3 EAST)
- KEY RETAIL STREET

NOTES:

1. AUCKLAND TRANSPORT APPROVED ASPHALT MIXES ARE TO BE USED
2. CONTRACTOR TO CONFIRM TO ENGINEER INSITU SUBGRADE CBR PRIOR TO TRIMMING TO FINAL SUBGRADE LEVELS TO CONFIRM PAVEMENT DEPTHS
3. DEFLECTION AND CURVATURE ON ROAD PAVEMENT TO BE AS FOLLOWS:
   COLLECTOR ROADS
   DEFLECTION 1.0mm CURVATURE 0.15mm
   PRIVATE ROADS
   DEFLECTION 1.4mm
   NO REQUIREMENT TO TEST FOR CURVATURE ON PRIVATE ROAD
4. ALL WORKS AND MATERIALS ARE TO COMPLY WITH AUCKLAND TRANSPORT STANDARDS. ANY AMBIGUITY BETWEEN DRAWINGS AND COUNCIL STANDARDS ARE TO BE REPORTED TO THE ENGINEER FOR CLARIFICATION.
5. PRAM CROSSINGS ARE TO BE CONSTRUCTED AS PER AUCKLAND TRANSPORT STANDARDS.
6. SERVICE TRENCHES SHOWN ARE INDICATIVE ONLY. ALL DUCTS/PIPES ARE TO BE POSITIONED AS PER RELEVANT SERVICE PROVIDER STANDARDS
7. ALL UNDERCHANNELS AND SUBSOIL DRAINS ARE TO COMPLY WITH AT TDM STANDARD DETAIL KC0007 UNLESS OTHERWISE NOTED.
8. ALL SUBSOIL DRAINAGE TO BE CONNECTED TO THE UPSTREAM CESSPIT AND CAPPED FOR FUTURE MAINTENANCE.
9. ALL LANE MARKING AND ROAD SIGNAGE IS TO BE CONSTRUCTED AS PER THE NEW ZEALAND TRANSPORT AGENCY (NZTA) MANUAL OF TRAFFIC SIGNS AND MARKINGS
10. CONCRETE SAWCUTS ON FOOTPATHS AND KERBS TO BE AT 3m CENTRES. SAWCUT TO BE 1/4 SLAB DEPTH.
11. IF WEAKER SUBGRADE ARE ENCOUNTERED AGREEMENT WITH THE ENGINEER IS REQUIRED PRIOR TO CONSTRUCTION OF ANY CONTINGENCY PAVEMENT.

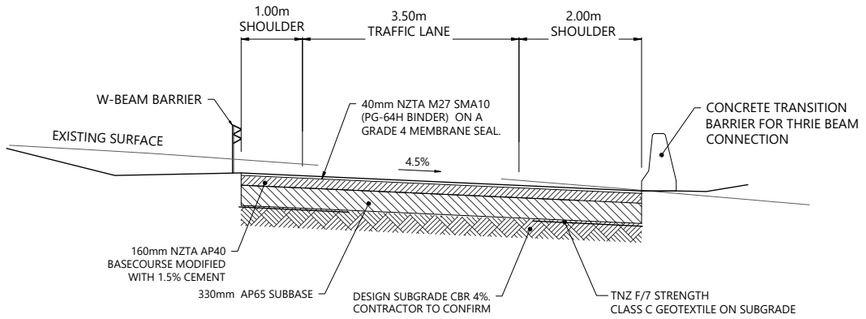
NOTE:

THIS ROAD IS PART OF THE NZTA SH1 OFFRAMP PROJECT AND (APART FROM EARTHWORK AND STORMWATER) NOT PART OF THIS CONSENT. DETAILS **PROVIDED FOR INFORMATION ONLY.**



REFER TO THE STAGE 1 DEVELOPMENT DESIGN PACKAGE FOR THE ROAD 2 SOUTH PAVEMENT DESIGN AFTER CHAINAGE 1010

SECTION 8 - COLLECTOR ROAD (NON-BUS ROUTE) CH 910



SECTION 9 - COLLECTOR ROAD (NON-BUS ROUTE) TIE-IN POINT

REVISION DETAILS		INT	DATE	SURVEYED	
3	ISSUED FOR 50% DESIGN	NS	22/11/24	DESIGNED	EW
4	ISSUED FOR 90% DESIGN	NS	29/11/24	DRAWN	EW
5	FOR THE 99% SUBMISSION	EW	10/02/25	CHECKED	GW
6	FOR FAST TRACK CONSENT	EW	21/02/25	APPROVED	GW

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

Kiwi Property

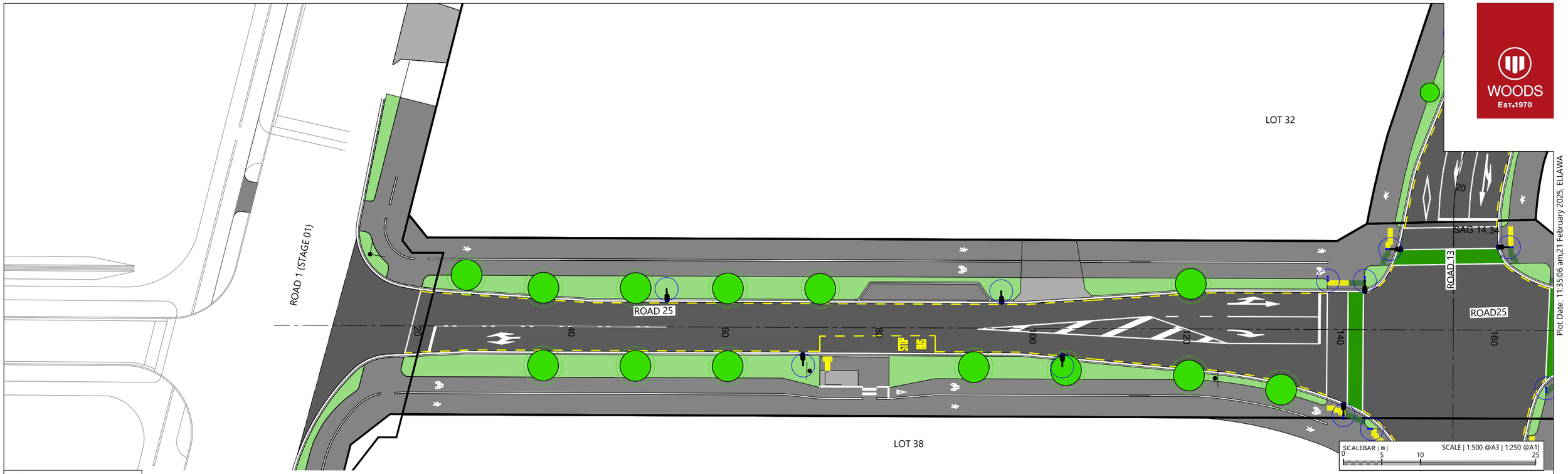
DRURY CENTRE-STAGE 2

TYPICAL ROAD CROSS SECTION - (SHEET 5 OF 5)

STATUS	FOR FAST TRACK CONSENT	REV
SCALE	1:100 @ A3	6
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P24-447-01-2204-RD	

Plot Date: 11:35:05 am,21 February 2025, ELLAWA

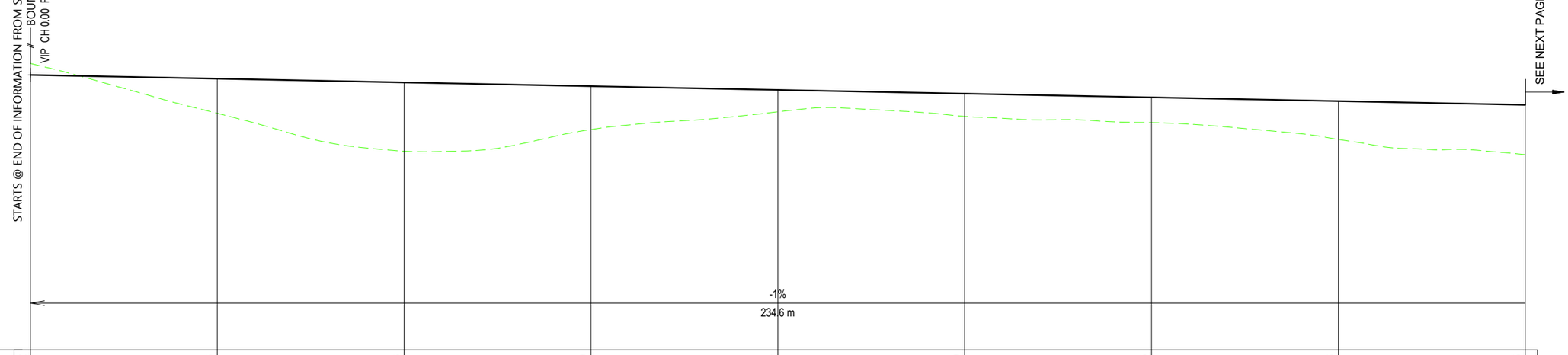
File: C:\12DS\DATA\WP-AKL-APP-02\P24-447 - DRURY CENTRE - STAGE 2_22140\02 DRAWINGS\01 ENG\P24-447-01-2200-RD_TYPICAL ROAD CROSS SECTIONS.DWG



LEGEND

EXISTING GROUND LEVEL

PROPOSED FINISHED ROAD LEVEL



Horizontal Curve Length (m)

Vertical Geometry K value/Grade (%)

Vertical Grade/ Curve Length (m)

DATUM R.L. = 8.00

EXISTING SURFACE	23.32	20.66	18.63	19.79	20.74	20.49	20.16	19.26	18.45
CUT / FILL DEPTH	-0.62	1.85	3.68	2.32	1.17	1.22	1.35	2.05	2.66
CL DESIGN LEVELS	22.71	22.51	22.31	22.11	21.91	21.71	21.51	21.31	21.11
CHAINAGE	0.00	20.00	40.00	60.00	80.00	100.00	120.00	140.00	160.00

ROAD 25 LONGITUDINAL SECTION

HORZ 1:500 VERT 1:250

REVISION DETAILS		INT	DATE	SURVEYED	
1	ISSUED FOR INFORMATION	NS	20/11/24	DESIGNED	JK
2	ISSUED FOR 90% DESIGN	NS	29/11/24	DRAWN	NS
3	FOR THE 99% SUBMISSION	EW	10/02/25	CHECKED	GW
4	ISSUED FOR FAST TRACK CONSENT	EW	21/02/25	APPROVED	CD

BUILDING B, LEVEL 1
8 NUGENT ST, GRAFTON,
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DRURY CENTRE-STAGE 2

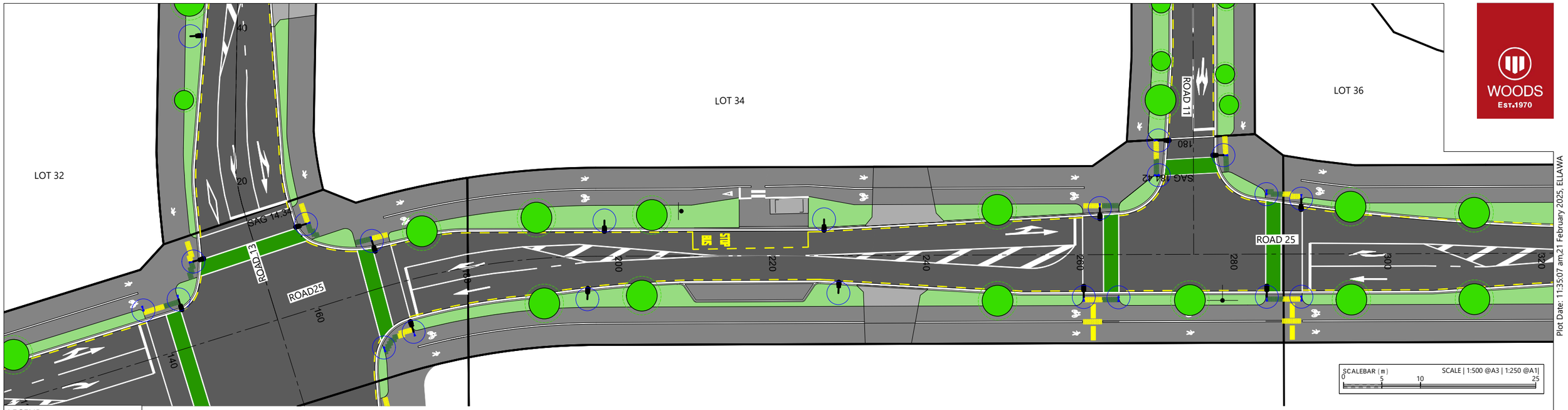
ROAD 25 - (CH0.0-CH160.0) LONGITUDINAL SECTION

N

STATUS	FOR FAST TRACK CONSENT	REV
SCALE	AS SHOWN	4
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P24-447-01-2500-RD	

Plot Date: 11:35:06 am,21 February 2025, ELLAWA

File: C:\12DS\DATA\WP-AKL-APP-02\P24-447 - DRURY CENTRE - STAGE 2_22140\02 DRAWINGS\01 ENG\P24-447-01-2500-RD_ROADING LONGSECTIONS.DWG



WOODS
Est.1970

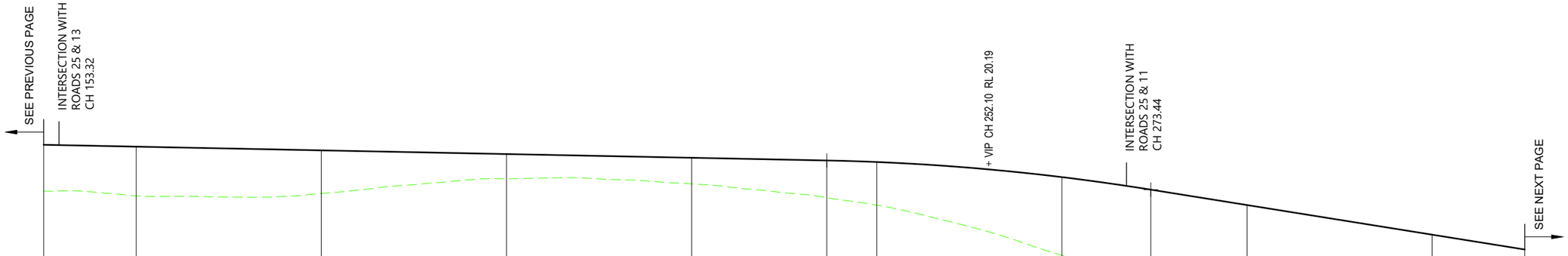
SCALEBAR (m) 0 5 10 25
SCALE | 1:500 @A3 | 1:250 @A1|

Plot Date: 11:35:07 am,21 February 2025, ELLAWA

LEGEND

EXISTING GROUND LEVEL

PROPOSED FINISHED ROAD LEVEL



Horizontal Curve Length (m) — 100 R

Vertical Geometry K value/Grade (%) — -1% | K: 5 | -8%

Vertical Grade/ Curve Length (m) — 234.6 m | VC 35 m | 59.65 m

DATUM R.L. = 2.00

EXISTING SURFACE	18.71	18.45	18.58	19.37	19.10	18.36	17.95	15.24	13.99	12.97	12.07	11.78
CUT / FILL DEPTH	2.50	2.66	2.32	1.34	1.41	2.01	2.33	4.22	4.80	4.99	4.28	3.78
CL DESIGN LEVELS	21.21	21.11	20.91	20.71	20.51	20.36	20.28	19.46	18.79	17.96	16.36	15.56
CHAINAGE	150.00	160.00	180.00	200.00	220.00	234.60	240.00	260.00	269.60	280.00	300.00	310.00

ROAD 25 LONGITUDINAL SECTION

HORZ 1:500 VERT 1:250

REVISION DETAILS		INT	DATE	SURVEYED	
1	ISSUED FOR INFORMATION	NS	20/11/24	DESIGNED	JK
2	ISSUED FOR 90% DESIGN	NS	29/11/24	DRAWN	NS
3	FOR THE 99% SUBMISSION	EW	10/02/25	CHECKED	GW
4	ISSUED FOR FAST TRACK CONSENT	EW	21/02/25	APPROVED	CD

BUILDING B, LEVEL 1
8 NUGENT ST, GRAFTON,
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Kiwi Property

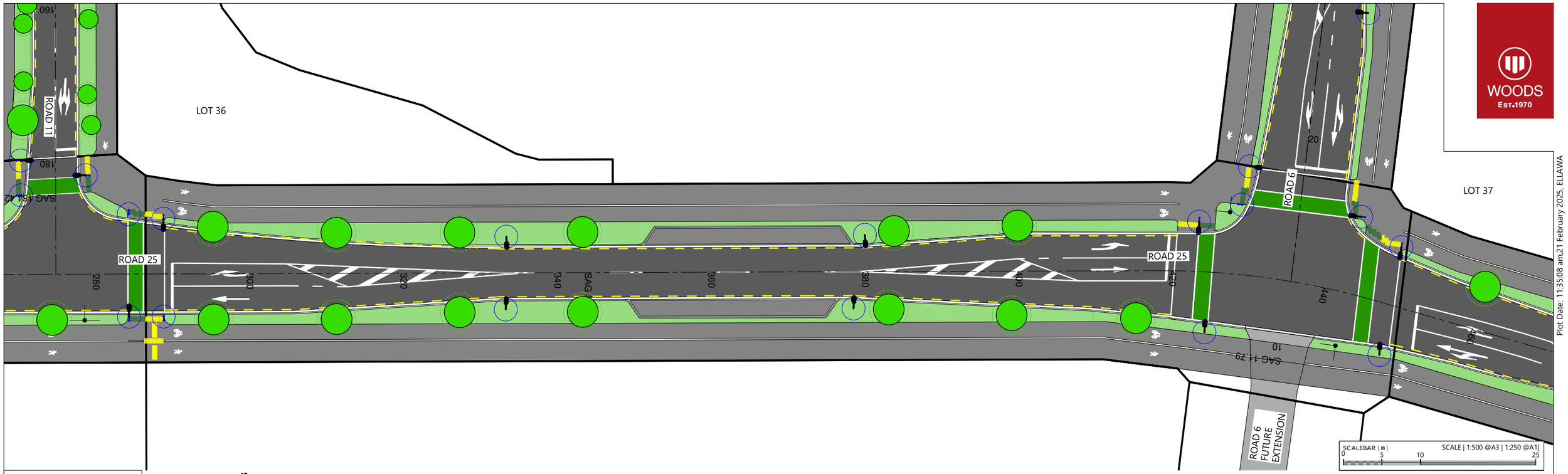
DRURY CENTRE-STAGE 2

ROAD 25 - (CH150.0-CH310.0) LONGITUDINAL SECTION

N

STATUS	FOR FAST TRACK CONSENT	REV
SCALE	AS SHOWN	4
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P24-447-01-2501-RD	

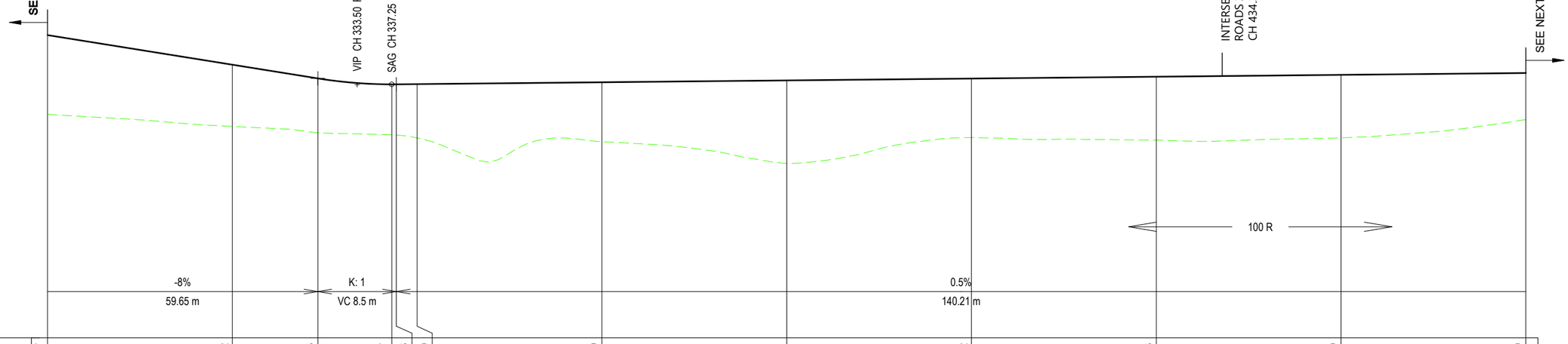
File: C:\12DS\DATA\WP-AKL-APP-02\P24-447 - DRURY CENTRE - STAGE 2_22140\02 DRAWINGS\01 ENG\P24-447-01-2500-RD_ROADING LONGSECTIONS.DWG



LEGEND

EXISTING GROUND LEVEL

PROPOSED FINISHED ROAD LEVEL



Horizontal Curve Length (m) — 100 R

Vertical Geometry K value/Grade (%) — -8% | K: 1 | 0.5%

Vertical Grade/ Curve Length (m) — 59.65 m | VC 8.5 m | 140.21 m

DATUM R.L. = 0.00

EXISTING SURFACE	12.07		11.42		11.08		10.97	10.96	10.80		10.59		9.43		10.82		10.68		10.80		11.80		
CUT / FILL DEPTH	4.28		3.34		2.93		2.72	2.74	2.91		3.21		4.48		3.19		3.43		3.40		2.51		
CL DESIGN LEVELS	16.36		14.76		14.02		13.70	13.70	13.71		13.81		13.91		14.01		14.11		14.21		14.31		
CHAINAGE	300.00		320.00		329.25		337.25	337.75	340.00		360.00		380.00		400.00		420.00		440.00		460.00		

ROAD 25 LONGITUDINAL SECTION

HORZ 1:500 VERT 1:250

REVISION DETAILS		INT	DATE	SURVEYED	
1	ISSUED FOR INFORMATION	NS	20/11/24	DESIGNED	JK
2	ISSUED FOR 90% DESIGN	NS	29/11/24	DRAWN	NS
3	FOR THE 99% SUBMISSION	EW	10/02/25	CHECKED	GW
4	ISSUED FOR FAST TRACK CONSENT	EW	21/02/25	APPROVED	CD

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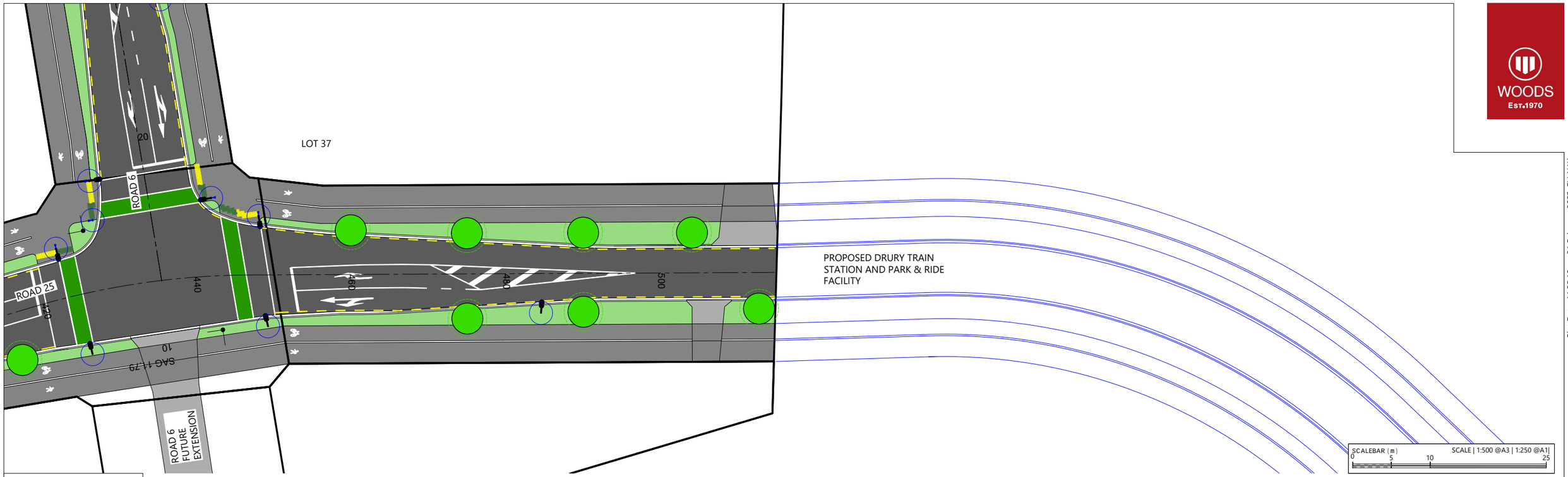
Kiwi Property

DRURY CENTRE-STAGE 2

ROAD 25 - (CH300.0-CH460.0) LONGITUDINAL SECTION

STATUS	FOR FAST TRACK CONSENT
SCALE	AS SHOWN
COUNCIL	AUCKLAND COUNCIL
DWG NO	P24-447-01-2502-RD
REV	4

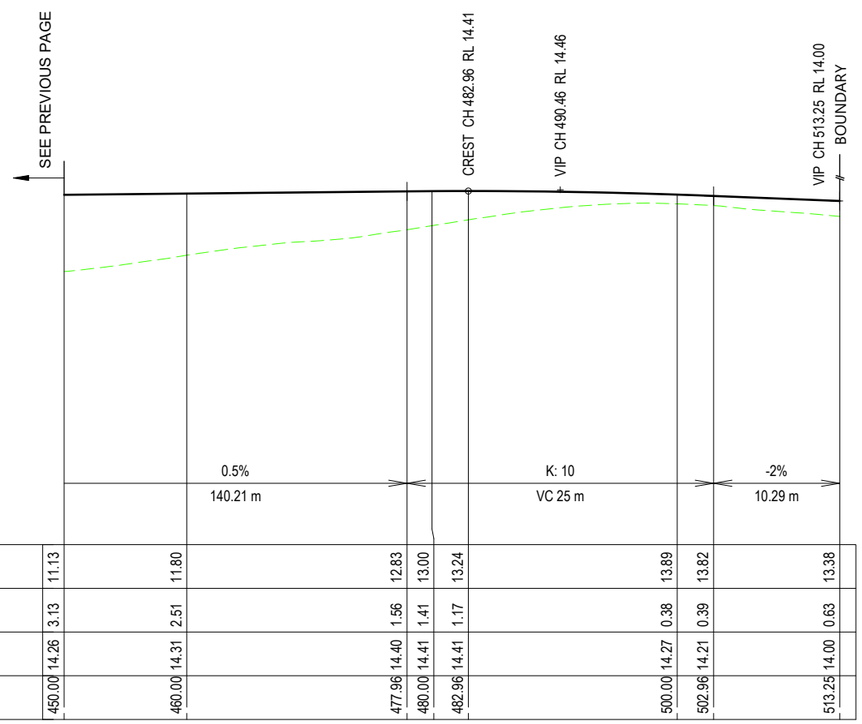
Plot Date: 11:35:08 am,21 February 2025, ELLAWA
File: C:\12DS\DATA\WP-AKL-APP-02\P24-447 - DRURY CENTRE - STAGE 2_22140\02 DRAWINGS\01 ENG\P24-447-01-2500-RD_ROADING LONGSECTIONS.DWG



LEGEND

EXISTING GROUND LEVEL

PROPOSED FINISHED ROAD LEVEL



Horizontal Curve Length (m)

Vertical Geometry K value/Grade (%) — 0.5% | K: 10 | -2%

Vertical Grade/ Curve Length (m) — 140.21 m | VC 25 m | 10.29 m

DATUM R.L. = 0.00

EXISTING SURFACE	11.13	11.80	12.83	13.00	13.24	13.89	13.82	13.38				
CUT / FILL DEPTH	3.13	2.51	1.56	1.41	1.17	0.38	0.39	0.63				
CL DESIGN LEVELS	14.26	14.31	14.40	14.41	14.41	14.27	14.21	14.00				
CHAINAGE	450.00	460.00	477.96	480.00	482.96	500.00	502.96	513.25				

ROAD 25 LONGITUDINAL SECTION

HORZ 1:500 VERT 1:250

REVISION DETAILS		INT	DATE	SURVEYED	
1	ISSUED FOR INFORMATION	NS	20/11/24	DESIGNED	JK
2	ISSUED FOR 90% DESIGN	NS	29/11/24	DRAWN	NS
3	FOR THE 99% SUBMISSION	EW	10/02/25	CHECKED	GW
4	ISSUED FOR FAST TRACK CONSENT	EW	21/02/25	APPROVED	CD

BUILDING B, LEVEL 1
8 NUGENT ST, GRAFTON,
AUCKLAND 1023
+64 9 308 9229
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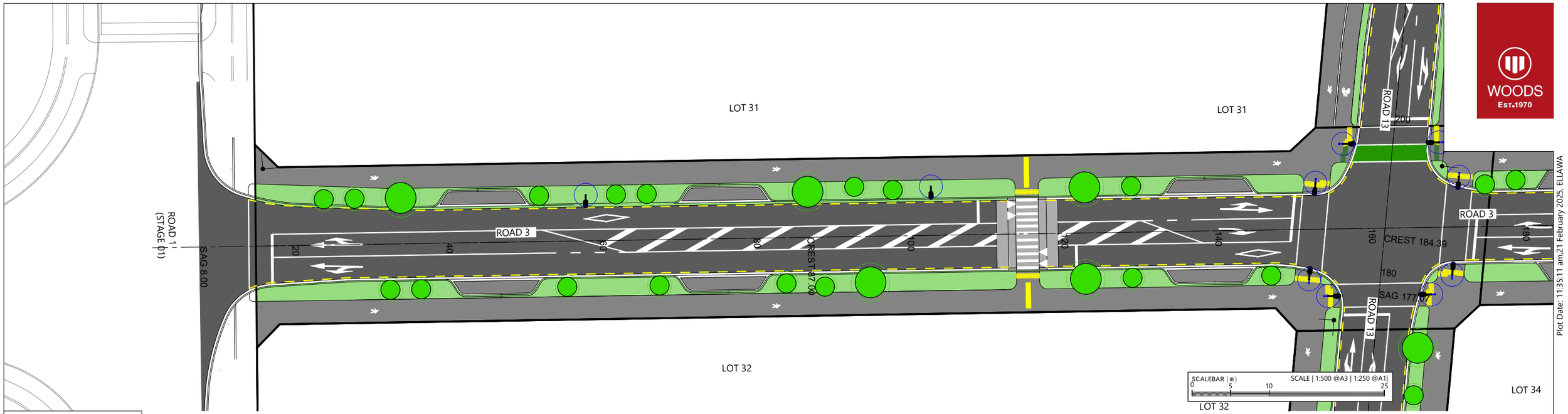
DRURY CENTRE-STAGE 2

ROAD 25 - (CH450.0-CH END) LONGITUDINAL SECTION

STATUS	FOR FAST TRACK CONSENT	REV
SCALE	AS SHOWN	4
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P24-447-01-2503-RD	

Plot Date: 11:35:10 am,21 February 2025, ELLAWA

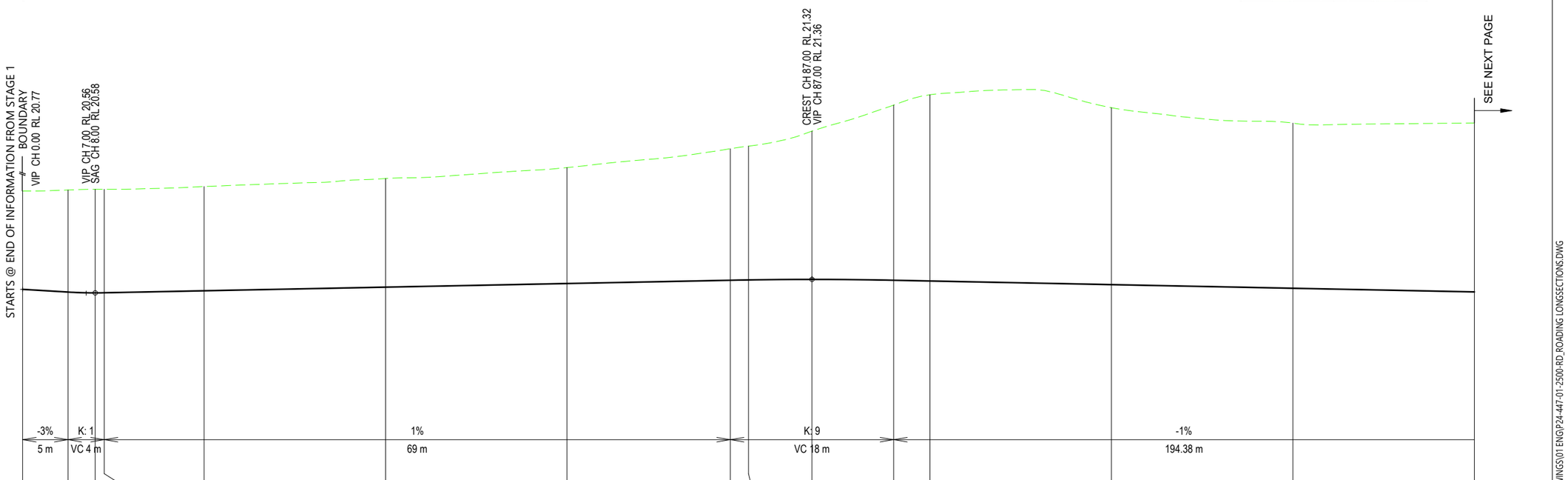
File: C:\12DS\DATA\WP-AKL-APP-02\P24-447 - DRURY CENTRE - STAGE 2_22140\02 DRAWINGS\01 ENG\P24-447-01-2500-RD_ROADING LONGSECTIONS.DWG



LEGEND

EXISTING GROUND LEVEL

PROPOSED FINISHED ROAD LEVEL



Horizontal Curve Length (m)

Vertical Geometry K value/Grade (%)	-3%	K: 1	1%	K: 9	-1%
Vertical Grade/ Curve Length (m)	5 m	VC 4 m	69 m	VC 18 m	194.38 m

DATUM R.L. = 10.00

EXISTING SURFACE	26.18	26.24	26.28	26.28	26.43	26.87	27.47	28.51	28.65	29.47	30.91	31.48	30.77	29.92	29.92
CUT / FILL DEPTH	-5.41	-5.61	-5.70	-5.69	-5.74	-5.98	-6.38	-7.24	-7.36	-8.16	-9.64	-10.25	-9.73	-9.09	-9.29
CL DESIGN LEVELS	20.77	20.62	20.58	20.58	20.69	20.89	21.09	21.27	21.29	21.32	21.27	21.23	21.03	20.83	20.63
CHAINAGE	0.00	5.00	8.00	9.00	20.00	40.00	60.00	78.00	80.00	87.00	96.00	100.00	120.00	140.00	160.00

ROAD 03 LONGITUDINAL SECTION

HORZ 1:500 VERT 1:250

REVISION DETAILS		INT	DATE	SURVEYED	
1	ISSUED FOR INFORMATION	NS	20/11/24	DESIGNED	JK
2	ISSUED FOR 90% DESIGN	NS	29/11/24	DRAWN	NS
3	FOR THE 99% SUBMISSION	EW	10/02/25	CHECKED	GW
4	ISSUED FOR FAST TRACK CONSENT	EW	21/02/25	APPROVED	CD

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

DRURY CENTRE-STAGE 2

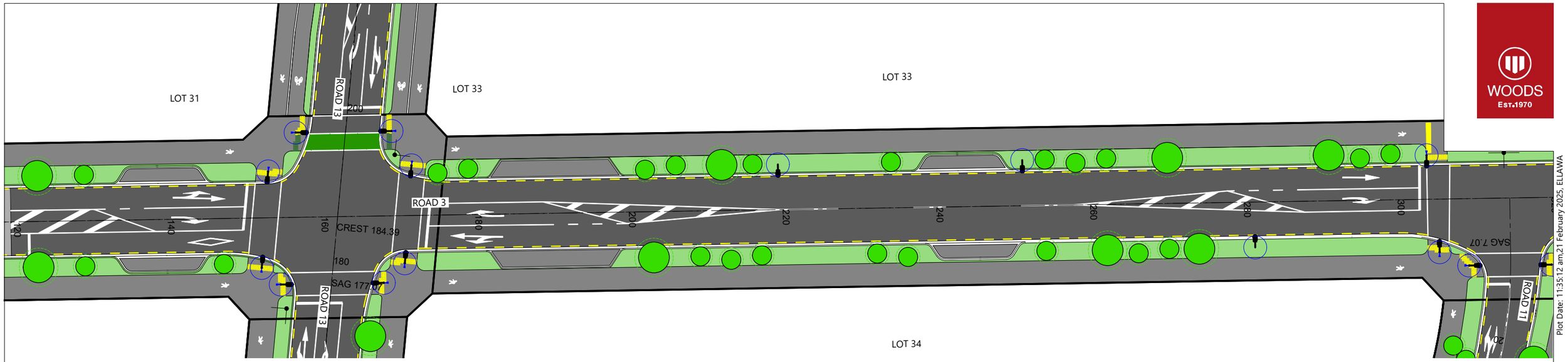
ROAD 13 - (CH0.00-CH 160.00) LONGITUDINAL SECTION

N

STATUS	FOR FAST TRACK CONSENT	REV
SCALE	AS SHOWN	4
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P24-447-01-2504-RD	

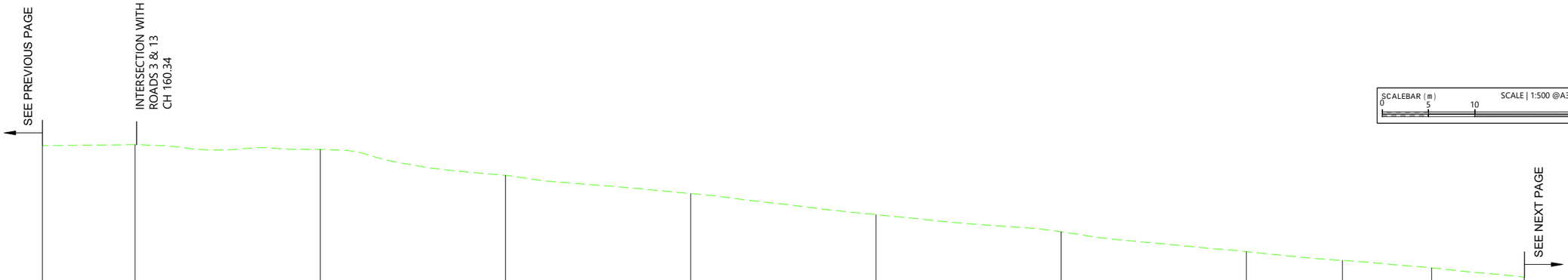
Plot Date: 11:35:11 am,21 February 2025, ELLAWA

File: C:\12DS\DATA\WP-AKL-APP-02\P24-447 - DRURY CENTRE - STAGE 2_22140\02 DRAWINGS\01 ENG\P24-447-01-2500-RD_ROADING LONGSECTIONS.DWG



SCALEBAR (m) 0 5 10 25
SCALE | 1:500 @A3 | 1:250 @A1|

LEGEND
- EXISTING GROUND LEVEL
- PROPOSED FINISHED ROAD LEVEL



Horizontal Curve Length (m)												
Vertical Geometry K value/Grade (%)					-1%						K: 25	
Vertical Grade/ Curve Length (m)					194.38 m						VC 50 m	
DATUM R.L. = 8.00												
EXISTING SURFACE	29.87	29.92	29.66	28.26	27.28	26.14	25.22	24.14	23.67	23.27	22.77	
CUT / FILL DEPTH	-9.14	-9.29	-9.23	-8.03	-7.25	-6.31	-5.59	-4.71	-4.35	-4.06	-3.72	
CL DESIGN LEVELS	20.73	20.63	20.43	20.23	20.03	19.83	19.63	19.43	19.33	19.21	19.05	
CHAINAGE	150.00	160.00	180.00	200.00	220.00	240.00	260.00	280.00	290.37	300.00	310.00	

ROAD 03 LONGITUDINAL SECTION

HORZ 1:500 VERT 1:250

REVISION DETAILS		INT	DATE	SURVEYED	
1	ISSUED FOR INFORMATION	NS	20/11/24	DESIGNED	JK
2	ISSUED FOR 90% DESIGN	NS	29/11/24	DRAWN	NS
3	FOR THE 99% SUBMISSION	EW	10/02/25	CHECKED	GW
4	ISSUED FOR FAST TRACK CONSENT	EW	21/02/25	APPROVED	CD

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

Kiwi Property

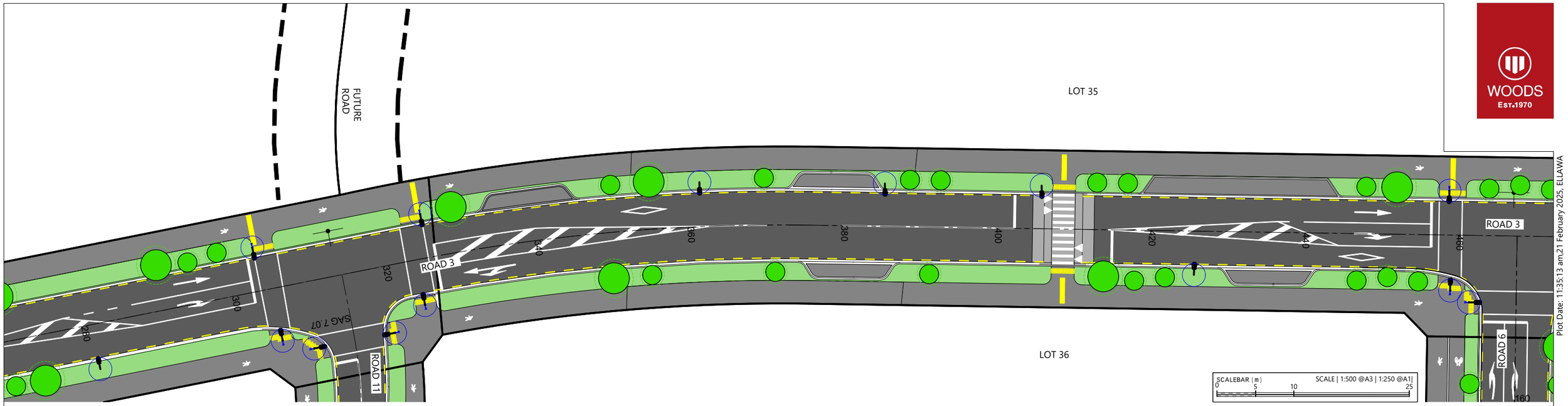
DRURY CENTRE-STAGE 2

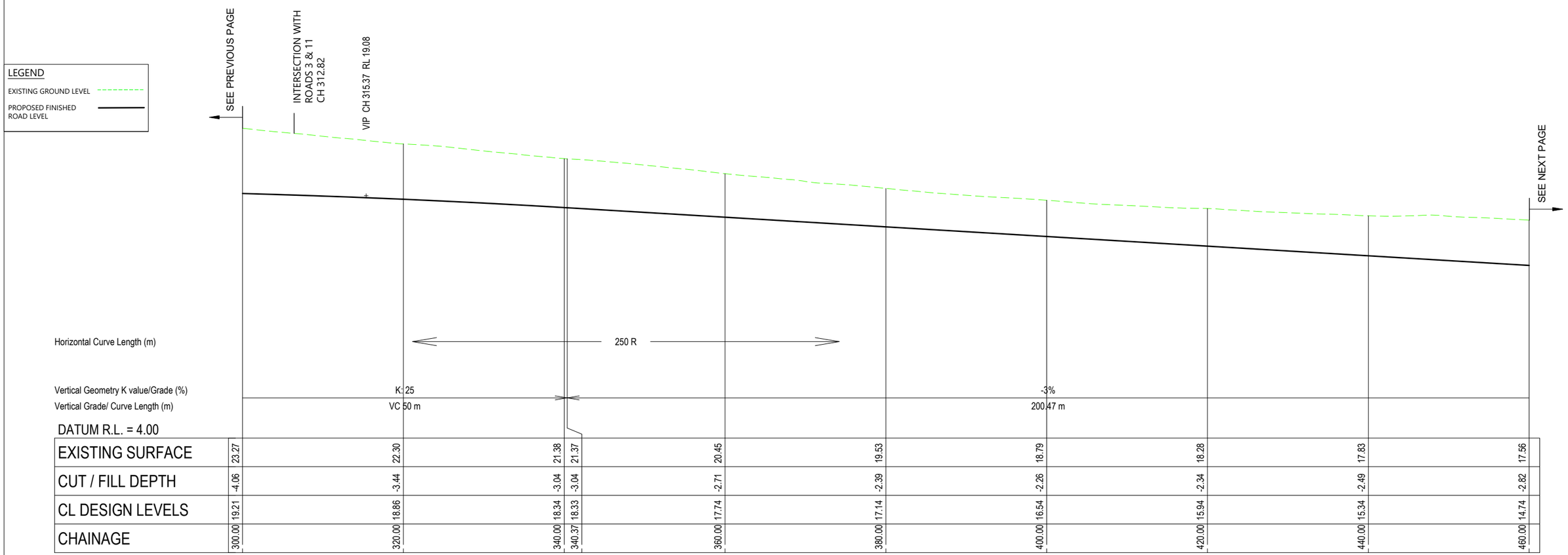
ROAD 13 - (CH150.00-CH 310.00) LONGITUDINAL SECTION

STATUS	FOR FAST TRACK CONSENT
SCALE	AS SHOWN
COUNCIL	AUCKLAND COUNCIL
DWG NO	P24-447-01-2505-RD
REV	4

Plot Date: 11:35:12 am,21 February 2025, ELLAWA

File: C:\12DS\DATA\WP-AKL-APP-02\P24-447 - DRURY CENTRE - STAGE 2_22140\02 DRAWINGS\01 ENG\P24-447-01-2500-RD_ROADING LONGSECTIONS.DWG





EXISTING SURFACE	23.27	22.30	21.38	21.37	20.45	19.53	18.79	18.28	17.83	17.56		
CUT / FILL DEPTH	-4.06	-3.44	-3.04	-3.04	-2.71	-2.39	-2.26	-2.34	-2.49	-2.82		
CL DESIGN LEVELS	19.21	18.86	18.34	18.33	17.74	17.14	16.54	15.94	15.34	14.74		
CHAINAGE	300.00	320.00	340.00	340.37	360.00	380.00	400.00	420.00	440.00	460.00		

ROAD 03 LONGITUDINAL SECTION

HORZ 1:500 VERT 1:250

REVISION DETAILS		INT	DATE	SURVEYED	
1	ISSUED FOR INFORMATION	NS	20/11/24	DESIGNED	JK
2	ISSUED FOR 90% DESIGN	NS	29/11/24	DRAWN	NS
3	FOR THE 99% SUBMISSION	EW	10/02/25	CHECKED	GW
4	ISSUED FOR FAST TRACK CONSENT	EW	21/02/25	APPROVED	CD

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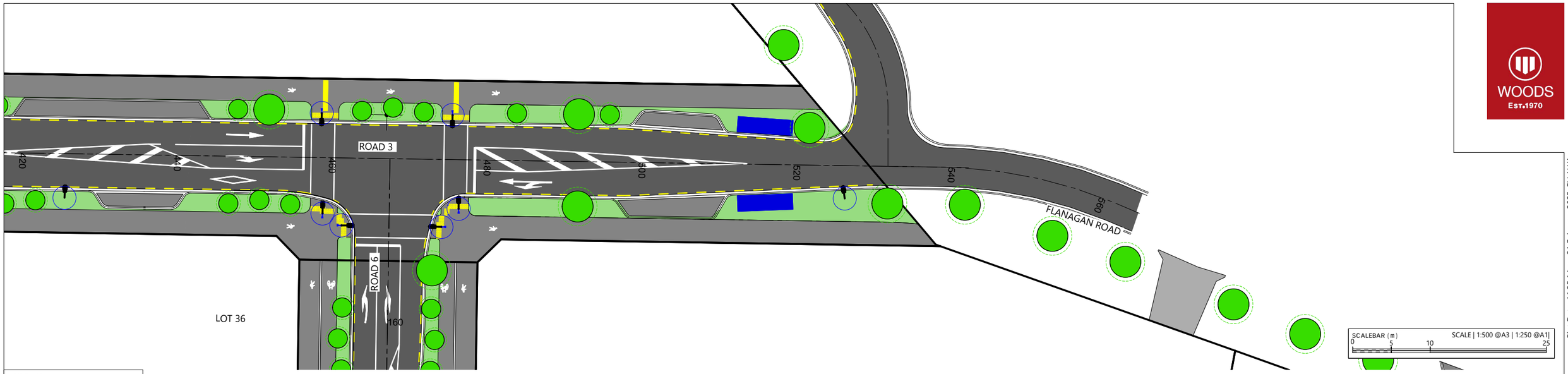
Kiwi Property

DRURY CENTRE-STAGE 2

ROAD 13 - (CH300.00-CH 460.00) LONGITUDINAL SECTION

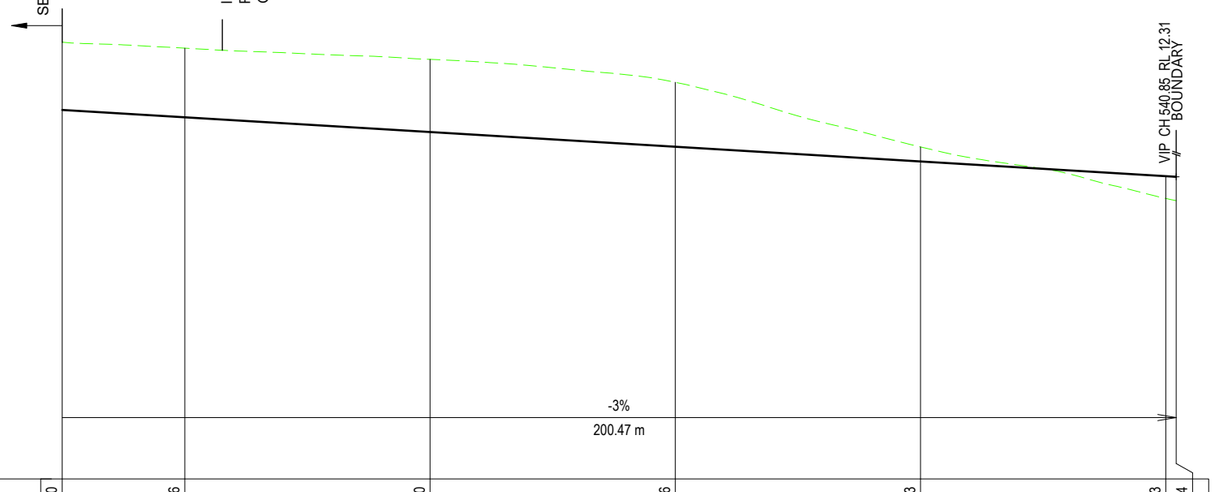
STATUS	FOR FAST TRACK CONSENT	REV
SCALE	AS SHOWN	4
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P24-447-01-2506-RD	



LEGEND

EXISTING GROUND LEVEL

PROPOSED FINISHED ROAD LEVEL



Horizontal Curve Length (m)											
Vertical Geometry K value/Grade (%)					-3%						
Vertical Grade/ Curve Length (m)					200.47 m						
DATUM R.L. = 0.00											
EXISTING SURFACE	17.80	17.56	17.10	16.16	13.53	11.43	11.34				
CUT / FILL DEPTH	-2.76	-2.82	-2.96	-2.62	-0.59	0.91	0.97				
CL DESIGN LEVELS	15.04	14.74	14.14	13.54	12.94	12.34	12.31				
CHAINAGE	450.00	460.00	480.00	500.00	520.00	540.00	540.85				

ROAD 03 LONGITUDINAL SECTION

HORZ 1:500 VERT 1:250

REVISION DETAILS		INT	DATE	SURVEYED	
1	ISSUED FOR INFORMATION	NS	20/11/24	DESIGNED	JK
2	ISSUED FOR 90% DESIGN	NS	29/11/24	DRAWN	NS
3	FOR THE 99% SUBMISSION	EW	10/02/25	CHECKED	GW
4	ISSUED FOR FAST TRACK CONSENT	EW	21/02/25	APPROVED	CD

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

Kiwi Property

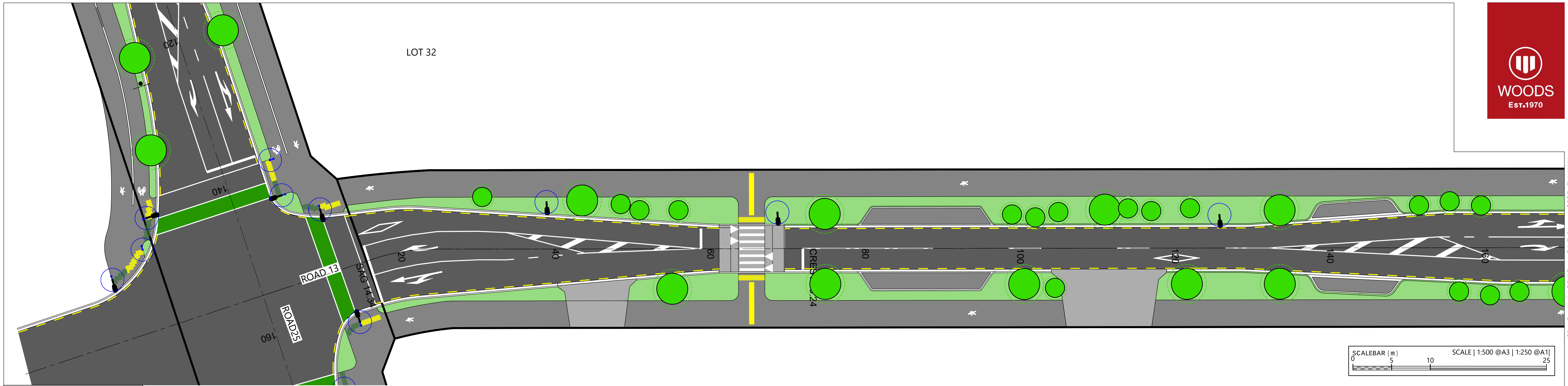
DRURY CENTRE-STAGE 2

ROAD 13 - (CH450.00-CH END) LONGITUDINAL SECTION

STATUS	FOR FAST TRACK CONSENT	REV
SCALE	AS SHOWN	4
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P24-447-01-2507-RD	

Plot Date: 11:35:14 am,21 February 2025, ELLAWA

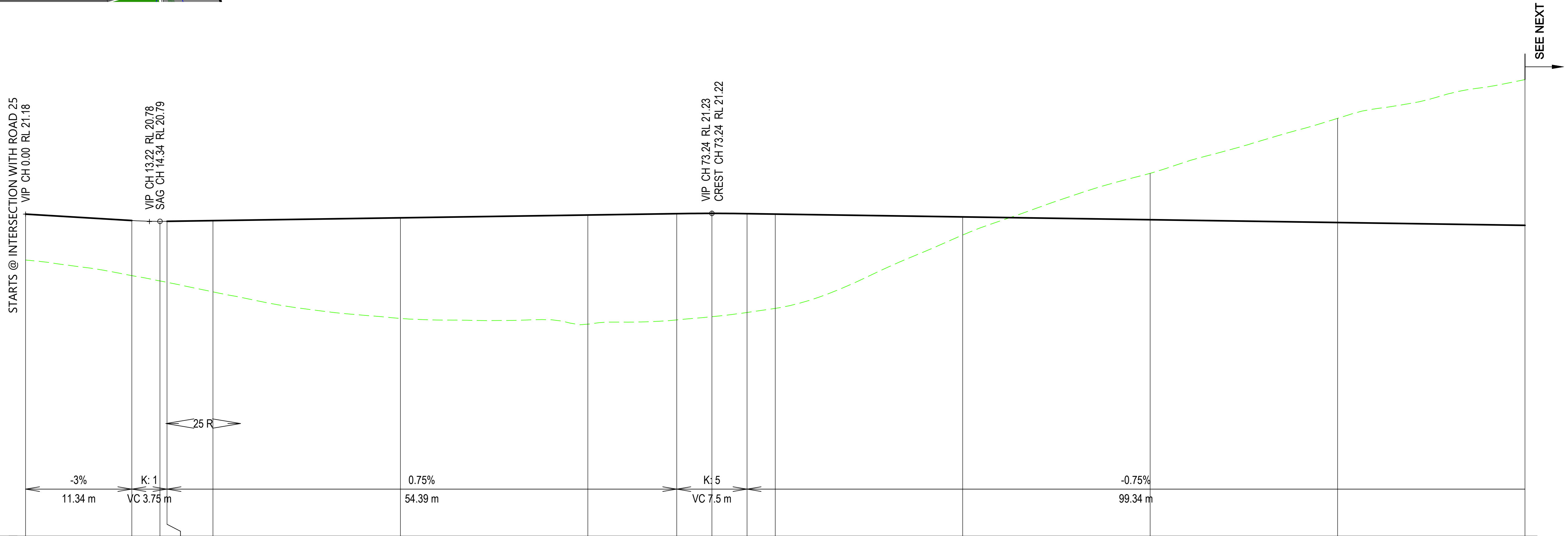
File: C:\12DS\DATA\WP-AKL-APP-02\P24-447 - DRURY CENTRE - STAGE 2_22140\02 DRAWINGS\01 ENG\P24-447-01-2500-RD_ROADING LONGSECTIONS.DWG



LEGEND

EXISTING GROUND LEVEL

PROPOSED FINISHED ROAD LEVEL



DATUM R.L. = 4.00

EXISTING SURFACE	18.73	17.90	17.61	17.54	17.03	15.61	15.30	15.53	15.70	15.93	16.15	20.06	23.35	26.29	28.36
CUT / FILL DEPTH	2.45	2.94	3.18	3.26	3.80	5.37	5.83	5.67	5.51	5.27	5.03	0.97	-2.48	-5.56	-7.78
CL DESIGN LEVELS	21.18	20.84	20.79	20.79	20.83	20.98	21.13	21.20	21.22	21.20	21.18	21.03	20.88	20.73	20.58
CHAINAGE	0.00	11.34	14.34	15.09	20.00	40.00	60.00	69.49	73.24	76.99	80.00	100.00	120.00	140.00	160.00

ROAD 13 LONGITUDINAL SECTION

HORZ 1:500 VERT 1:250

REVISION DETAILS		INT	DATE	SURVEYED	
1	ISSUED FOR INFORMATION	NS	20/11/24	DESIGNED	JK
2	ISSUED FOR 90% DESIGN	NS	29/11/24	DRAWN	NS
3	FOR THE 99% SUBMISSION	EW	10/02/25	CHECKED	GW
4	ISSUED FOR FAST TRACK CONSENT	EW	21/02/25	APPROVED	CD

WOODS Est.1970
BUILDING B, LEVEL 1
8 NUGENT ST, GRAFTON,
AUCKLAND 1023
+64 9 308 9229
WOODS.CO.NZ

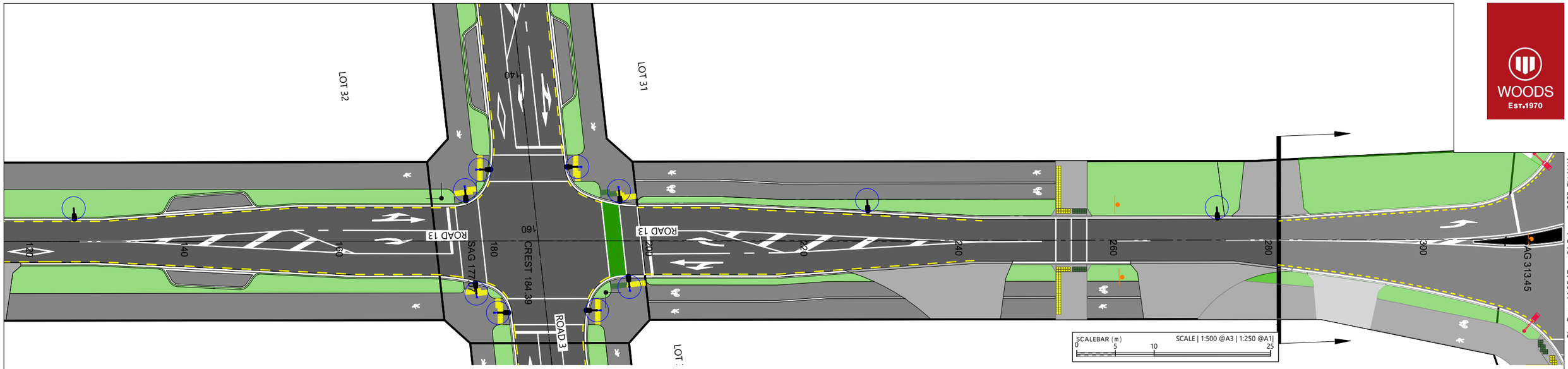
Kiwi Property

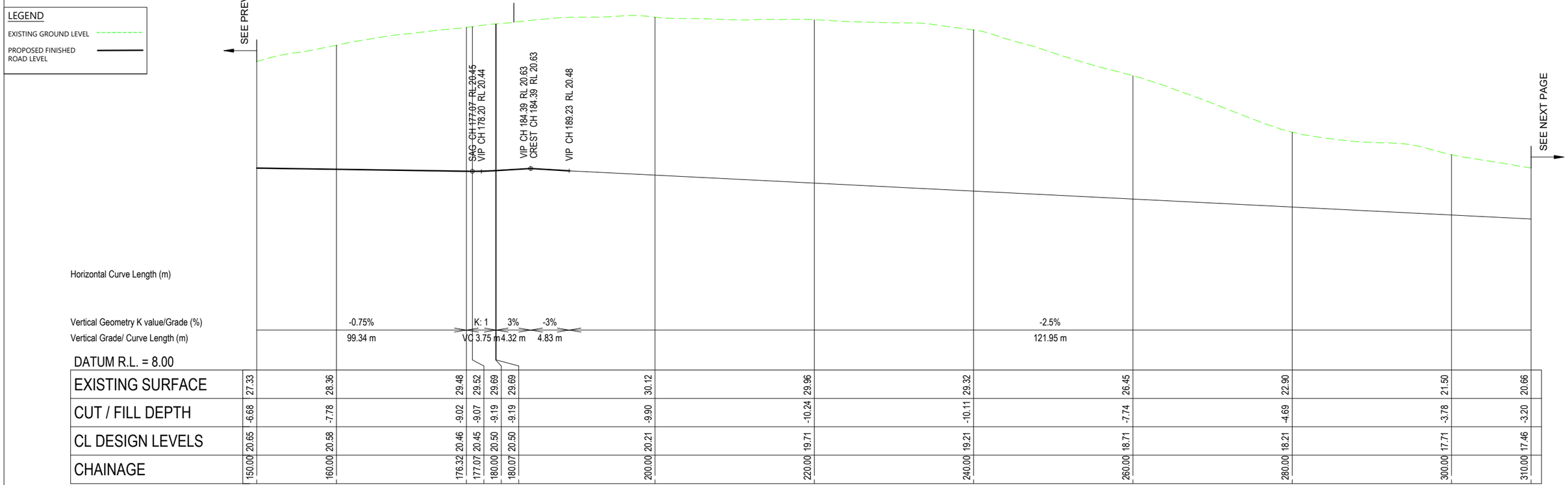
DRURY CENTRE-STAGE 2

ROAD 13 - (CH0.00-CH 160.00) LONGITUDINAL SECTION

STATUS	FOR FAST TRACK CONSENT	REV	
SCALE	AS SHOWN	4	
COUNCIL	AUCKLAND COUNCIL		
DWG NO	P24-447-01-2508-RD		

Plot Date: 11:35:16 am,21 February 2025, ELLAWA
File: C:\12DS\DATA\WP-AKL-APP-02\P24-447\P24-447 - DRURY CENTRE - STAGE 2_22140\02 DRAWINGS\01 ENG\P24-447-01-2500-RD_ROADING LONGSECTIONS.DWG





EXISTING SURFACE	27.33	28.36	29.48	29.52	29.69	29.69	30.12	29.96	29.32	26.45	22.90	21.50	20.66
CUT / FILL DEPTH	-6.68	-7.78	-9.02	-9.07	-9.19	-9.19	-9.90	-10.24	-10.11	-7.74	-4.69	-3.78	-3.20
CL DESIGN LEVELS	20.65	20.58	20.46	20.45	20.50	20.50	20.21	19.71	19.21	18.71	18.21	17.71	17.46
CHAINAGE	150.00	160.00	176.32	177.07	180.00	180.07	200.00	220.00	240.00	260.00	280.00	300.00	310.00

ROAD 13 LONGITUDINAL SECTION

HORZ 1:500 VERT 1:250

REVISION DETAILS		INT	DATE	SURVEYED	
1	ISSUED FOR INFORMATION	NS	20/11/24	DESIGNED	JK
2	ISSUED FOR 90% DESIGN	NS	29/11/24	DRAWN	NS
3	FOR THE 99% SUBMISSION	EW	10/02/25	CHECKED	GW
4	ISSUED FOR FAST TRACK CONSENT	EW	21/02/25	APPROVED	CD

BUILDING B, LEVEL 1
8 NUGENT ST, GRAFTON,
AUCKLAND 1023
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Kiwi Property

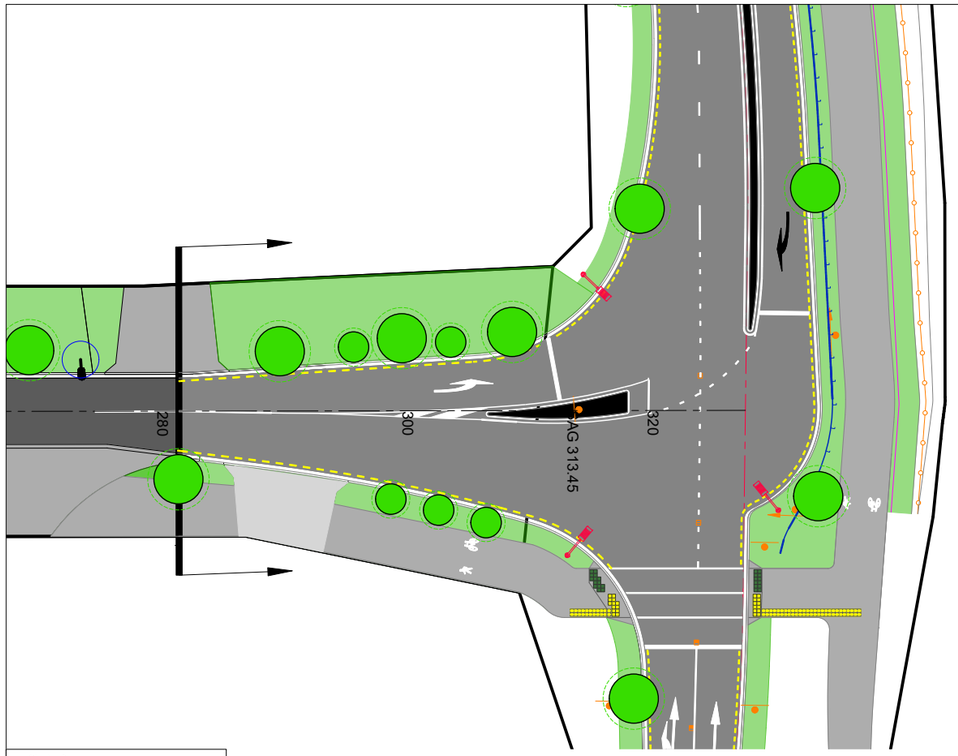
DRURY CENTRE-STAGE 2

ROAD 13 - (CH150.00-CH 310.00) LONGITUDINAL SECTION

STATUS	FOR FAST TRACK CONSENT
SCALE	AS SHOWN
COUNCIL	AUCKLAND COUNCIL
DWG NO	P24-447-01-2509-RD
REV	4

Plot Date: 11:35:17 am,21 February 2025, ELLAWA

File: C:\12DS\DATA\WP-AKL-APP-02\P24-447 - DRURY CENTRE - STAGE 2_22140\02 DRAWINGS\01 ENG\P24-447-01-2500-RD_ROADING LONGSECTIONS.DWG



NOTE:

ROAD 2 NORTH & ROAD 13 INTERSECTION TO BE CONSENTED UNDER NZTA SH1 OFFRAMP PROJECT.

ROAD 2 NORTH IS PART OF THE NZTA SH1 OFFRAMP PROJECT AND APART FROM EARTHWORK AND STORMWATER IS NOT PART OF THIS CONSENT.

DETAILS **PROVIDED FOR INFORMATION ONLY.**

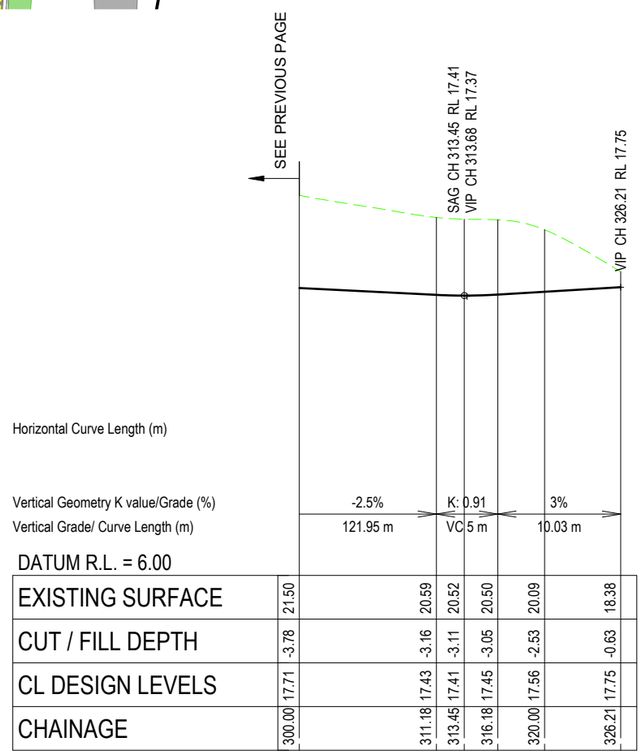
LEGEND

EXISTING GROUND LEVEL

PROPOSED FINISHED ROAD LEVEL

SCALEBAR (m) 0 5 10 25

SCALE | 1:500 @A3 | 1:250 @A1|



Horizontal Curve Length (m)

Vertical Geometry K value/Grade (%) -2.5% K: 0.91 3%

Vertical Grade/ Curve Length (m) 121.95 m VC 5 m 10.03 m

DATUM R.L. = 6.00

EXISTING SURFACE	21.50	20.59	20.52	20.50	20.09	18.38	
CUT / FILL DEPTH	-3.78	-3.16	-3.11	-3.05	-2.53	-0.63	
CL DESIGN LEVELS	17.71	17.43	17.41	17.45	17.56	17.75	
CHAINAGE	300.00	311.18	313.45	316.18	320.00	326.21	

ROAD 13 LONGITUDINAL SECTION

HORZ 1:500 VERT 1:250

REVISION DETAILS		INT	DATE	SURVEYED	
1	ISSUED FOR INFORMATION	NS	20/11/24	DESIGNED	JK
2	ISSUED FOR 90% DESIGN	NS	29/11/24	DRAWN	NS
3	FOR THE 99% SUBMISSION	EW	10/02/25	CHECKED	GW
4	ISSUED FOR FAST TRACK CONSENT	EW	21/02/25	APPROVED	CD

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

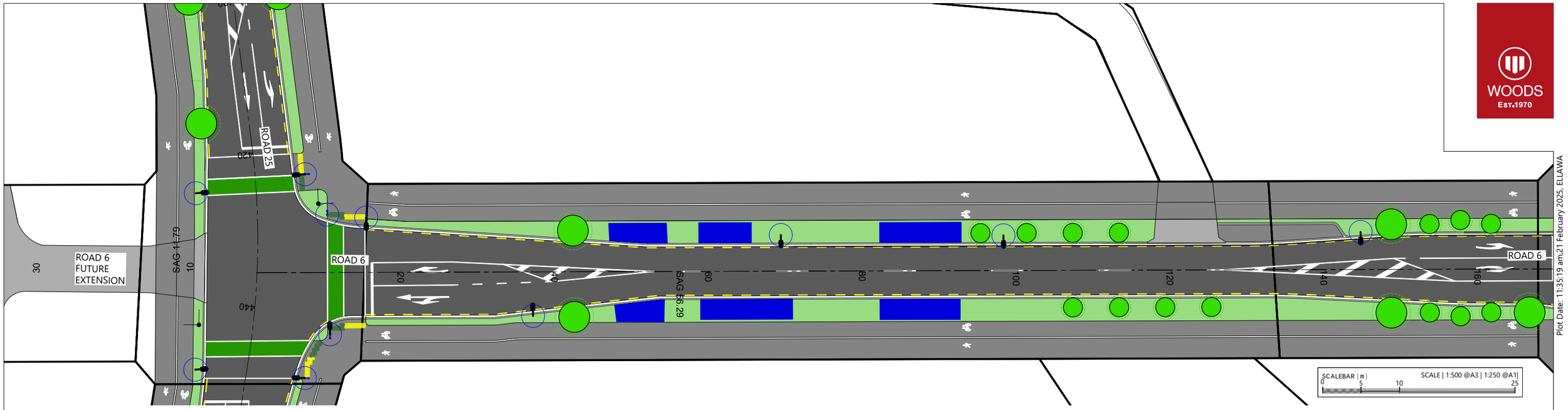
DRURY CENTRE-STAGE 2

ROAD 13 - (CH300.00-CH END) LONGITUDINAL SECTION

STATUS	FOR FAST TRACK CONSENT
SCALE	AS SHOWN
COUNCIL	AUCKLAND COUNCIL
DWG NO	P24-447-01-2510-RD
REV	4

Plot Date: 11:35:18 am,21 February 2025, ELLAWA

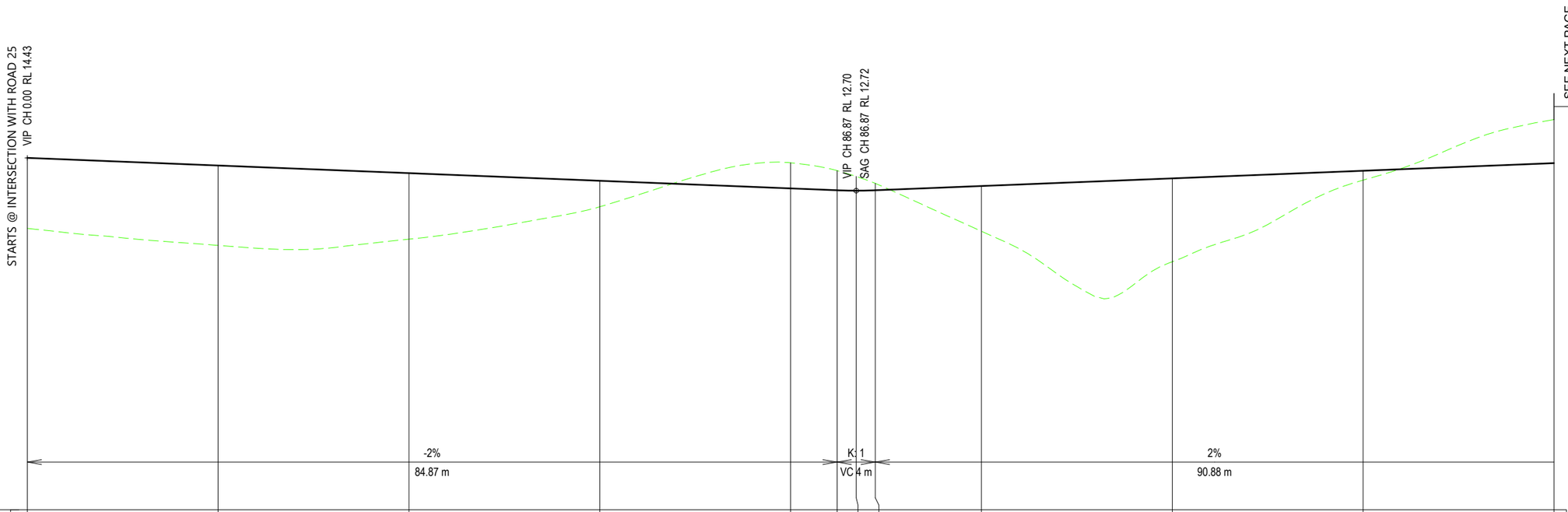
File: C:\12DS\DATA\WP-AKL-APP-02\P24-447 - DRURY CENTRE - STAGE 2_22140\02 DRAWINGS\01 ENG\P24-447-01-2500-RD_ROADING LONGSECTIONS.DWG



LEGEND

EXISTING GROUND LEVEL

PROPOSED FINISHED ROAD LEVEL



DATUM R.L. = -4.00

EXISTING SURFACE	10.74	9.85	10.18	11.87	14.18	13.77	13.46	13.10	10.59	8.99	13.27	16.44
CUT / FILL DEPTH	3.70	4.19	3.46	1.36	-1.34	-1.03	-0.75	-0.36	2.37	4.37	0.49	-2.28
CL DESIGN LEVELS	14.43	14.03	13.63	13.23	12.83	12.74	12.72	12.74	12.96	13.36	13.76	14.16
CHAINAGE	0.00	20.00	40.00	60.00	80.00	84.87	86.87	88.87	100.00	120.00	140.00	160.00

ROAD 06 LONGITUDINAL SECTION

HORZ 1:500 VERT 1:250

REVISION DETAILS		INT	DATE	SURVEYED	
1	ISSUED FOR INFORMATION	NS	20/11/24	DESIGNED	JK
2	ISSUED FOR 90% DESIGN	NS	29/11/24	DRAWN	NS
3	FOR THE 99% SUBMISSION	EW	10/02/25	CHECKED	GW
4	ISSUED FOR FAST TRACK CONSENT	EW	21/02/25	APPROVED	CD

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

DRURY CENTRE-STAGE 2

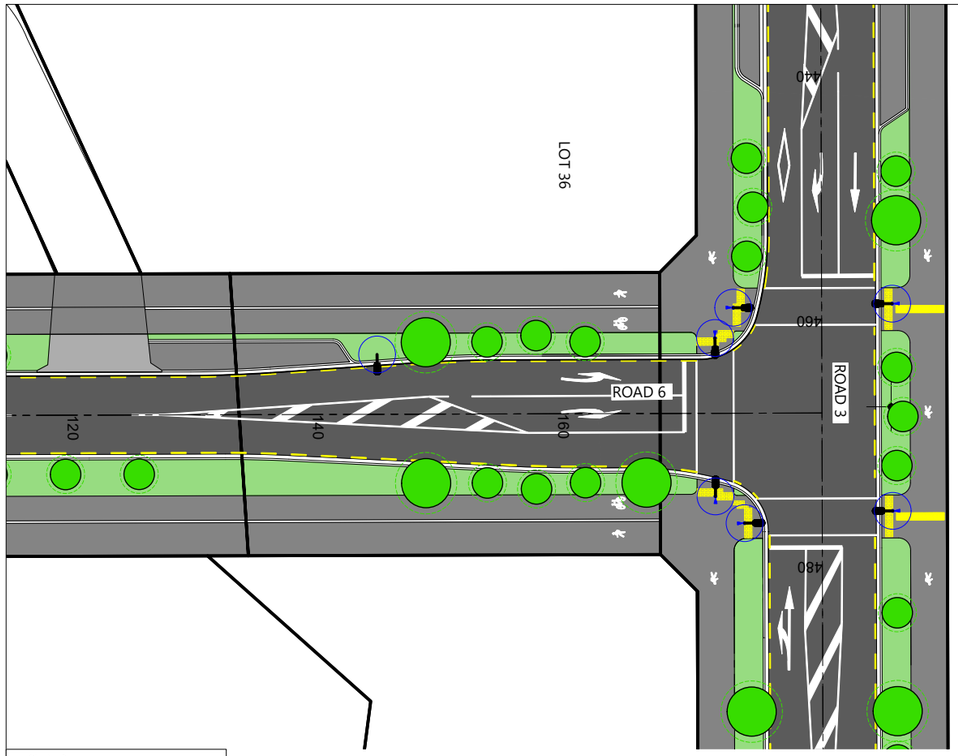
ROAD 06 - (CH0.00-CH 160.00) LONGITUDINAL SECTION

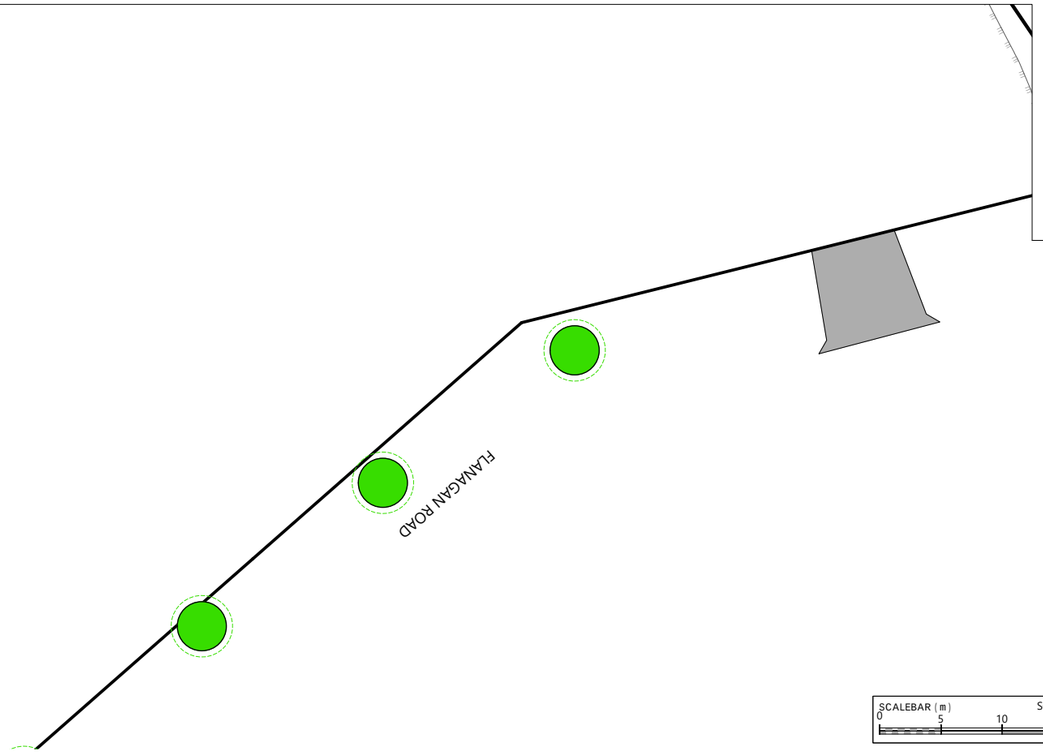
N

STATUS	FOR FAST TRACK CONSENT	REV	
SCALE	AS SHOWN		4
COUNCIL	AUCKLAND COUNCIL		
DWG NO	P24-447-01-2511-RD		

Plot Date: 11:35:19 am,21 February 2025, ELLAWA

File: C:\12DS\DATA\WP-AKL-APP-02\P24-447 - DRURY CENTRE - STAGE 2_22140\02 DRAWINGS\01 ENG\P24-447-01-2500-RD_ROADING LONGSECTIONS.DWG





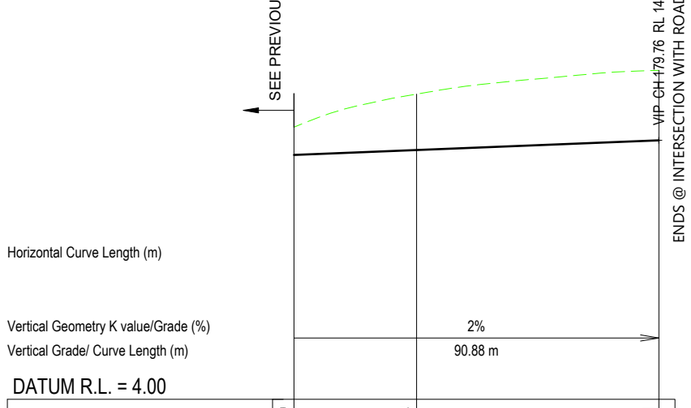
LEGEND

EXISTING GROUND LEVEL

PROPOSED FINISHED ROAD LEVEL

SCALEBAR (m) 0 5 10 25

SCALE | 1:500 @A3 | 1:250 @A1|



DATUM R.L. = 4.00

EXISTING SURFACE	15.09	16.44	17.41
CUT / FILL DEPTH	-1.13	-2.28	-2.85
CL DESIGN LEVELS	13.96	14.16	14.56
CHAINAGE	150.00	160.00	179.76

ROAD 06 LONGITUDINAL SECTION

HORZ 1:500 VERT 1:250

REVISION DETAILS		INT	DATE	SURVEYED	
1	ISSUED FOR INFORMATION	NS	20/11/24	DESIGNED	JK
2	ISSUED FOR 90% DESIGN	NS	29/11/24	DRAWN	NS
3	FOR THE 99% SUBMISSION	EW	10/02/25	CHECKED	GW
4	ISSUED FOR FAST TRACK CONSENT	EW	21/02/25	APPROVED	CD

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

Kiwi Property

DRURY CENTRE-STAGE 2

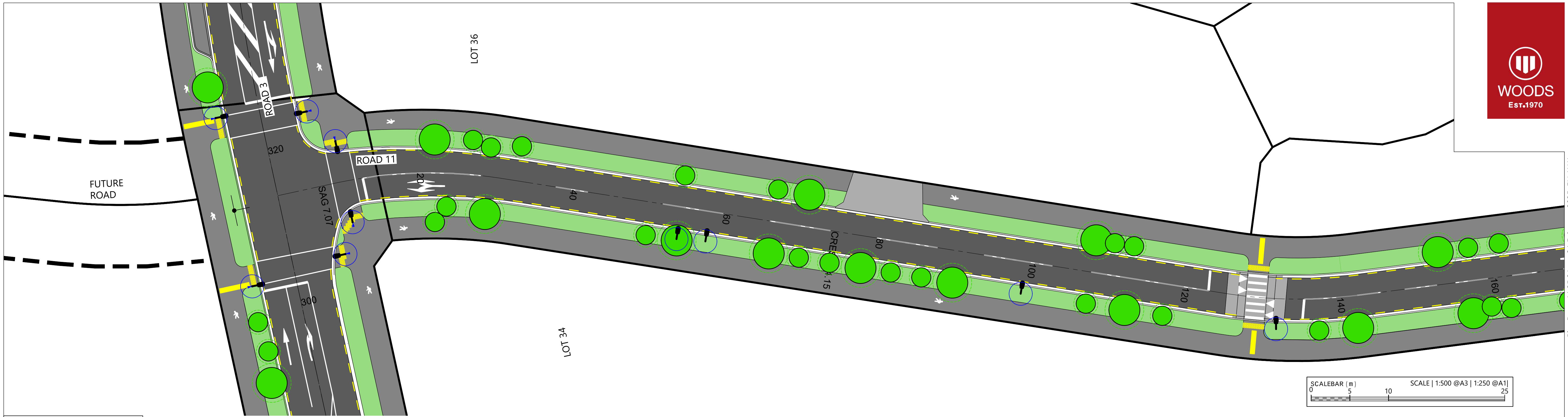
ROAD 06 - (CH150.00-CH END) LONGITUDINAL SECTION

N

STATUS	FOR FAST TRACK CONSENT	REV
SCALE	AS SHOWN	4
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P24-447-01-2512-RD	

Plot Date: 11:35:20 am,21 February 2025, ELLAWA

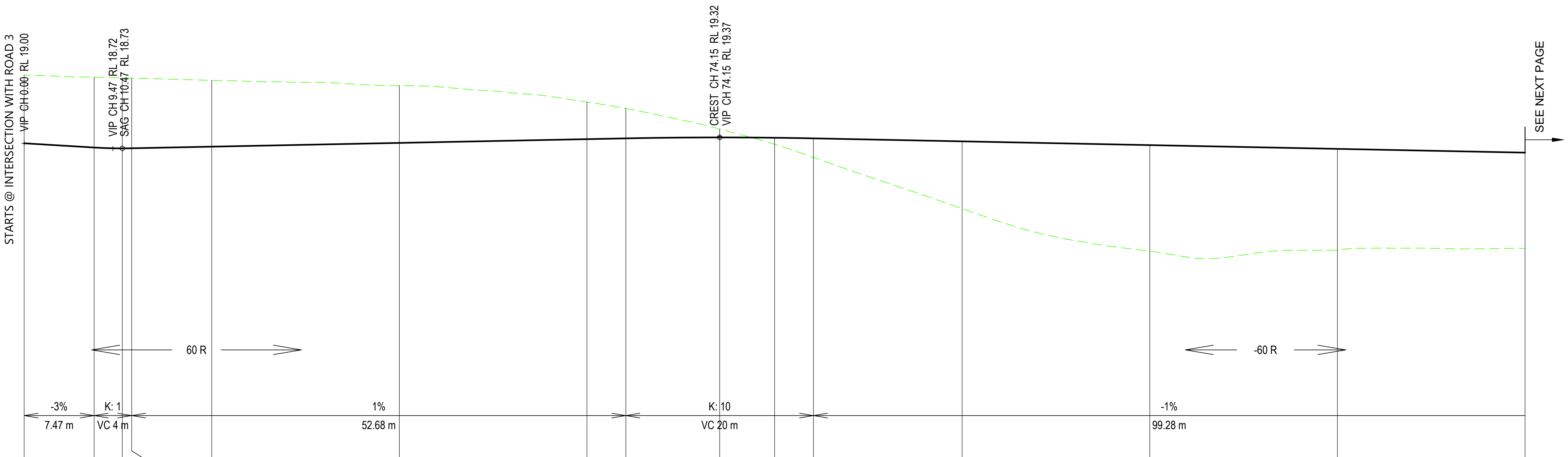
File: C:\12DS\DATA\WP-AKL-APP-02\P24-447 - DRURY CENTRE - STAGE 2_22140\02 DRAWINGS\01 ENG\P24-447-01-2500-RD_ROADING LONGSECTIONS.DWG



LEGEND

EXISTING GROUND LEVEL

PROPOSED FINISHED ROAD LEVEL



DATUM R.L. = 2.00

EXISTING SURFACE	22.64	22.53	22.49	22.47	22.36	22.08	21.20	20.86	19.76	18.95	18.25	15.52	13.25	13.32	13.40
CUT / FILL DEPTH	-3.63	-3.75	-3.76	-3.73	-3.53	-3.06	-1.98	-1.60	-0.45	0.35	1.01	3.59	5.65	5.38	5.10
CL DESIGN LEVELS	19.00	18.78	18.73	18.74	18.82	19.02	19.22	19.27	19.32	19.30	19.27	19.11	18.91	18.71	18.51
CHAINAGE	0.00	7.47	10.47	11.47	20.00	40.00	60.00	64.15	74.15	80.00	84.15	100.00	120.00	140.00	160.00

ROAD 11 LONGITUDINAL SECTION

HORZ 1:500 VERT 1:250

REVISION DETAILS		INT	DATE	SURVEYED	
1	ISSUED FOR INFORMATION	NS	20/11/24	DESIGNED	JK
2	ISSUED FOR 90% DESIGN	NS	29/11/24	DRAWN	NS
3	FOR THE 99% SUBMISSION	EW	10/02/25	CHECKED	GW
4	ISSUED FOR FAST TRACK CONSENT	EW	21/02/25	APPROVED	CD

BUILDING B, LEVEL 1
8 NUGENT ST, GRAFTON,
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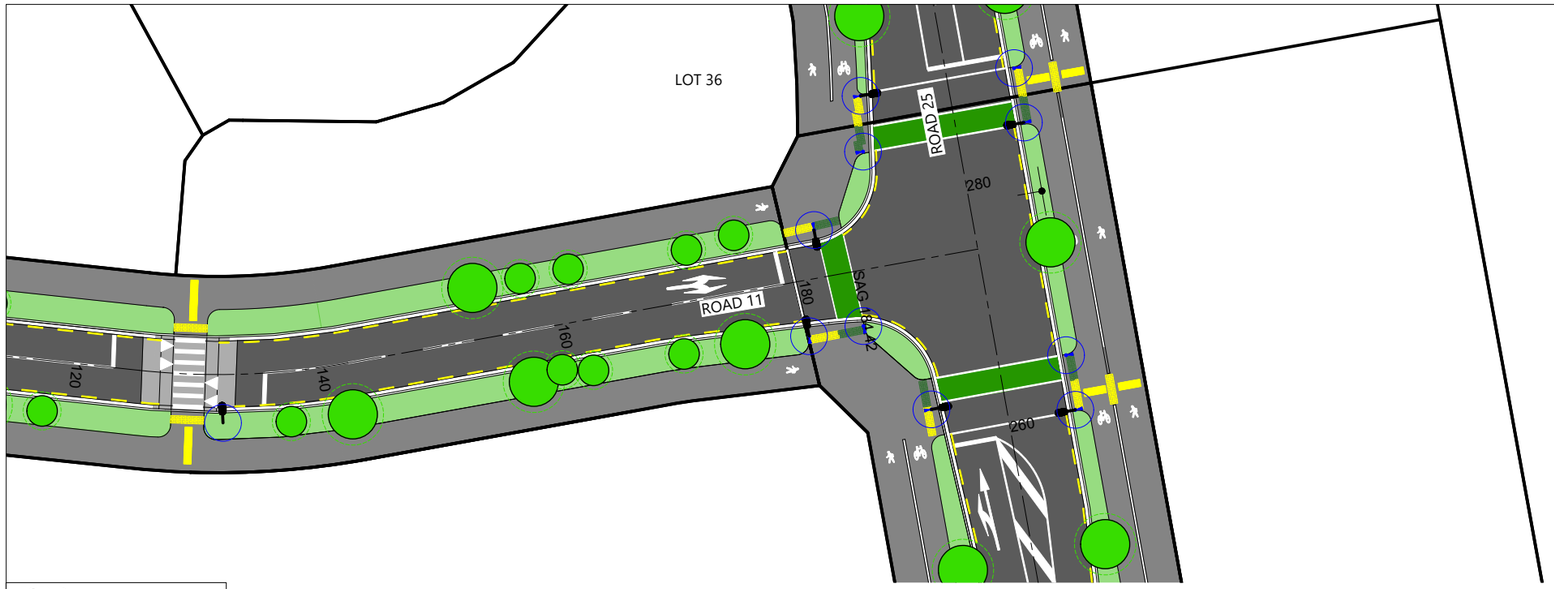
DRURY CENTRE-STAGE 2

ROAD 11 - (CH0.00-CH 160.00) LONGITUDINAL SECTION

STATUS	FOR FAST TRACK CONSENT	REV	
SCALE	AS SHOWN	4	
COUNCIL	AUCKLAND COUNCIL		
DWG NO	P24-447-01-2513-RD		

Plot Date: 11:35:21 am,21 February 2025, ELLAWA
File: C:\12DS\DATA\WP-AKL-APP-02\P24-447 - DRURY CENTRE - STAGE 2_22140\02 DRAWINGS\01 ENG\P24-447-01-2500-RD_ROADING LONGSECTIONS.DWG



WOODS
Est.1970

SCALEBAR (m) 0 5 10 25
SCALE | 1:500 @A3 | 1:250 @A1

LEGEND
EXISTING GROUND LEVEL
PROPOSED FINISHED ROAD LEVEL

Horizontal Curve Length (m)

Vertical Geometry K value/Grade (%) -1% K: 1 3%

Vertical Grade/ Curve Length (m) 99.28 m VC 4 m 5.62 m

DATUM R.L. = 2.00

EXISTING SURFACE	13.41	13.40	13.35	13.39	13.41	13.47	13.57	
CUT / FILL DEPTH	5.20	5.10	4.95	4.88	4.86	4.84	4.91	
CL DESIGN LEVELS	18.61	18.51	18.31	18.27	18.27	18.31	18.48	
CHAINAGE	150.00	160.00	180.00	183.42	184.42	187.42	193.04	

ROAD 11 LONGITUDINAL SECTION

HORZ 1:500 VERT 1:250

REVISION DETAILS		INT	DATE	SURVEYED	
1	ISSUED FOR INFORMATION	NS	20/11/24	DESIGNED	JK
2	ISSUED FOR 90% DESIGN	NS	29/11/24	DRAWN	NS
3	FOR THE 99% SUBMISSION	EW	10/02/25	CHECKED	GW
4	ISSUED FOR FAST TRACK CONSENT	EW	21/02/25	APPROVED	CD

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

DRURY CENTRE-STAGE 2

ROAD 11 - (CH150.00-CH END) LONGITUDINAL SECTION

N

STATUS	FOR FAST TRACK CONSENT	REV
SCALE	AS SHOWN	4
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P24-447-01-2514-RD	

Plot Date: 11:35:23 am,21 February 2025, ELLAWA

File: C:\12DS\DATA\WP-AKL-APP-02\P24-447 - DRURY CENTRE - STAGE 2_22140\02 DRAWINGS\01 ENG\P24-447-01-2500-RD_ROADING LONGSECTIONS.DWG

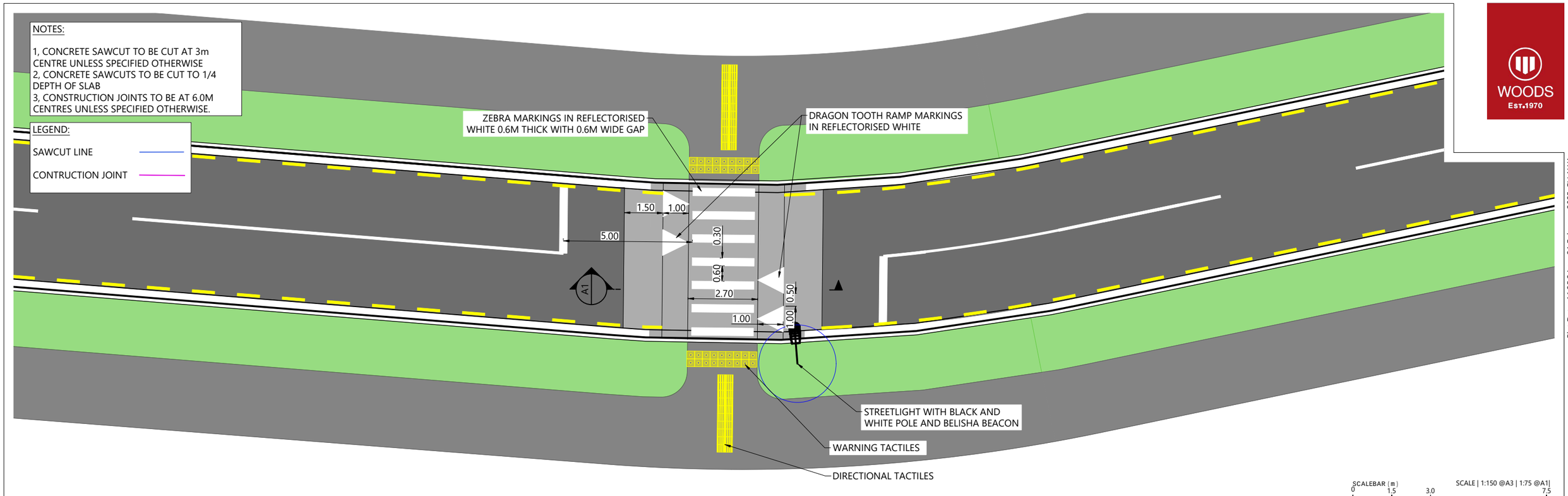
NOTES:

1, CONCRETE SAWCUT TO BE CUT AT 3m CENTRE UNLESS SPECIFIED OTHERWISE
2, CONCRETE SAWCUTS TO BE CUT TO 1/4 DEPTH OF SLAB
3, CONSTRUCTION JOINTS TO BE AT 6.0M CENTRES UNLESS SPECIFIED OTHERWISE.

LEGEND:

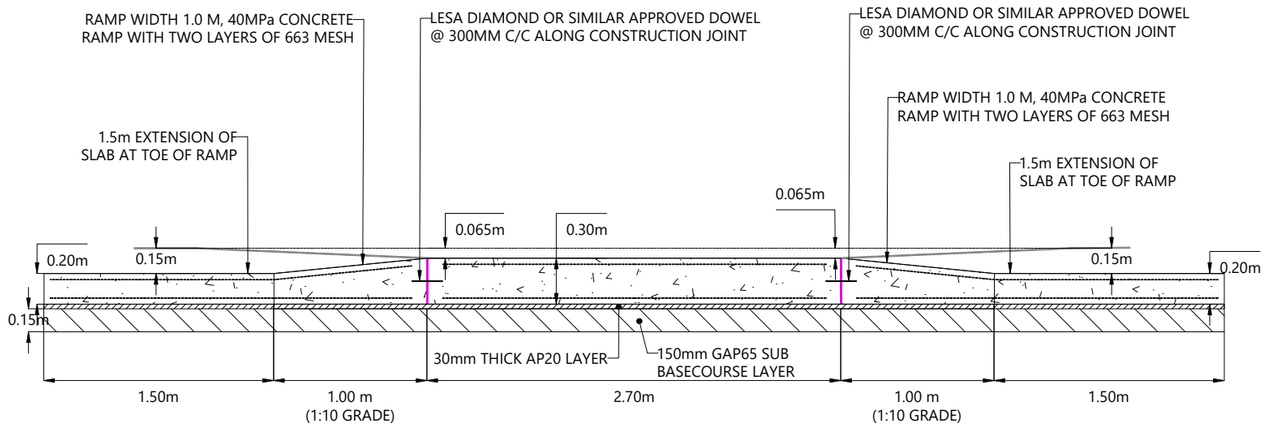
SAWCUT LINE

CONTRUCTION JOINT

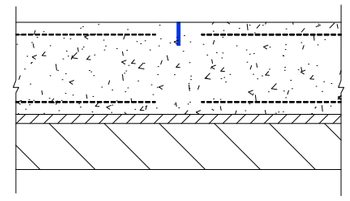


SCALEBAR (m) 0 1.5 3.0 7.5

SCALE | 1:150 @A3 | 1:75 @A1|



A1 - RAISED SPEED TABLE LONG-SECTION DETAIL
1:40 @ A3



- SAWCUT JOINT DETAIL
1:20 @ A3

REVISION DETAILS		INT	DATE	SURVEYED	
1	ISSUED FOR FAST TRACK CONSENT	NS	05/12/24	DESIGNED	NS
2	FOR THE 99% SUBMISSION	EW	10/02/25	DRAWN	NS
3	ISSUED FOR RAST TRACK CONSENT	EW	21/02/25	CHECKED	GW
				APPROVED	GW

BUILDING B, LEVEL 1
8 NUGENT ST, GRAFTON,
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Kiwi Property

DRURY CENTRE-STAGE 2

TYPICAL RAISED PEDESTRIAN CROSSING DETAIL

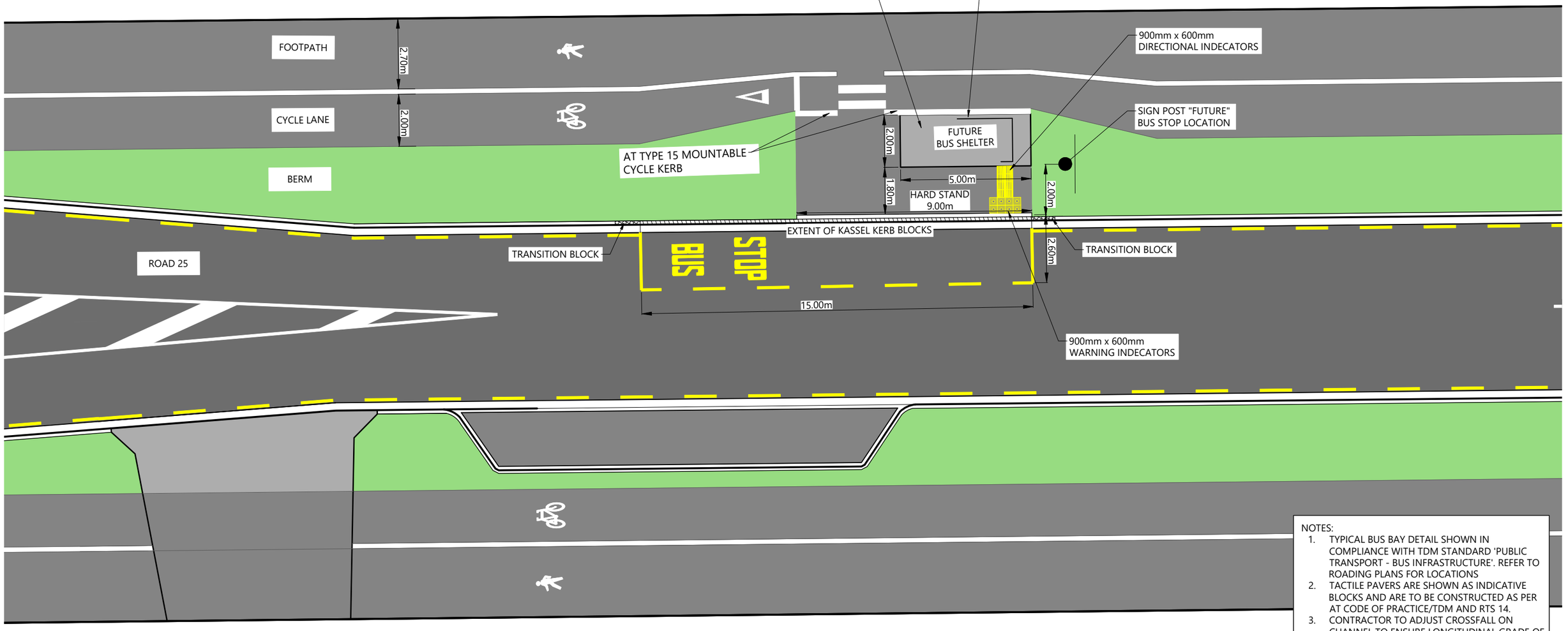
STATUS	FOR FAST TRACK CONSENT
SCALE	AS SHOWN
COUNCIL	AUCKLAND COUNCIL
DWG NO	P24-447-01-2810-RD
REV	3

Plot Date: 11:35:24 am,21 February 2025, ELLAWA

File: C:\12DS\DATA\WP-AKL-APP-02\P24-447 - DRURY CENTRE - STAGE 2_22140\02 DRAWINGS\01 ENG\P24-447-01-2810-RD_TYPICAL RAISED PEDESTRIAN CROSSING DETAIL.DWG

BUS SHELTER SLAB TO BE CONSTRUCTED IN ACCORDANCE WITH PLUMB CONSULTING STRUCTURAL ENGINEERS PLAN 151319-S01-A. SLAB TO BE 200mm THICK WITH 2 LAYERS OF 665 MESH ON 100mm COMPACTED BASECOURSE.

BUS SHELTER ROOF AND FOUNDATION DIMENSION AS PER AT TDM - PUBLIC TRANSPORT BUS INFRASTRUCTURE (FIGURE 35)



NOTES:
1. TYPICAL BUS BAY DETAIL SHOWN IN COMPLIANCE WITH TDM STANDARD 'PUBLIC TRANSPORT - BUS INFRASTRUCTURE'. REFER TO ROADING PLANS FOR LOCATIONS
2. TACTILE PAVERS ARE SHOWN AS INDICATIVE BLOCKS AND ARE TO BE CONSTRUCTED AS PER AT CODE OF PRACTICE/TDM AND RTS 14.
3. CONTRACTOR TO ADJUST CROSSFALL ON CHANNEL TO ENSURE LONGITUDINAL GRADE OF CHANNEL TO BE GREATER OR EQUAL TO 0.5%.

SCALEBAR (m) 0 1.5 3.0 7.5
SCALE | 1:150 @A3 | 1:75 @A1|

REVISION DETAILS		INT	DATE	SURVEYED	
1	ISSUED FOR 90% DESIGN	NS	29/11/2024	DESIGNED	NS
2	FOR THE 99% SUBMISSION	NS	10/02/2025	DRAWN	NS
3	ISSUED FOR FAST TRACK CONSENT	EW	21/02/2025	CHECKED	GW
				APPROVED	GW

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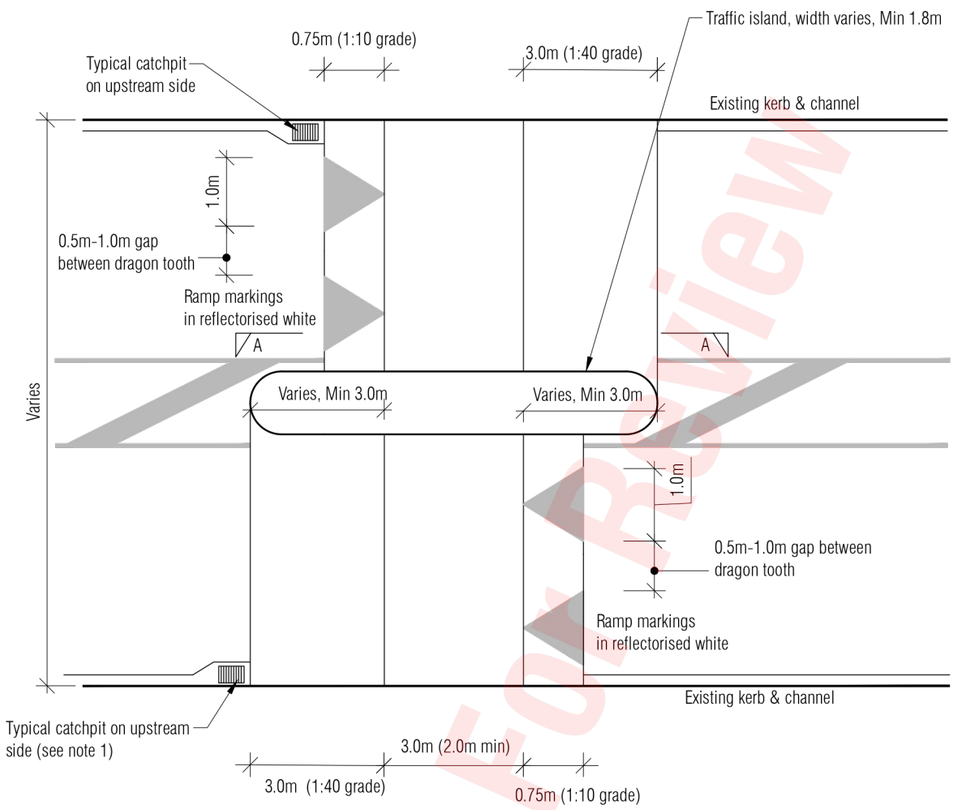
Kiwi Property

DRURY CENTRE-STAGE 2

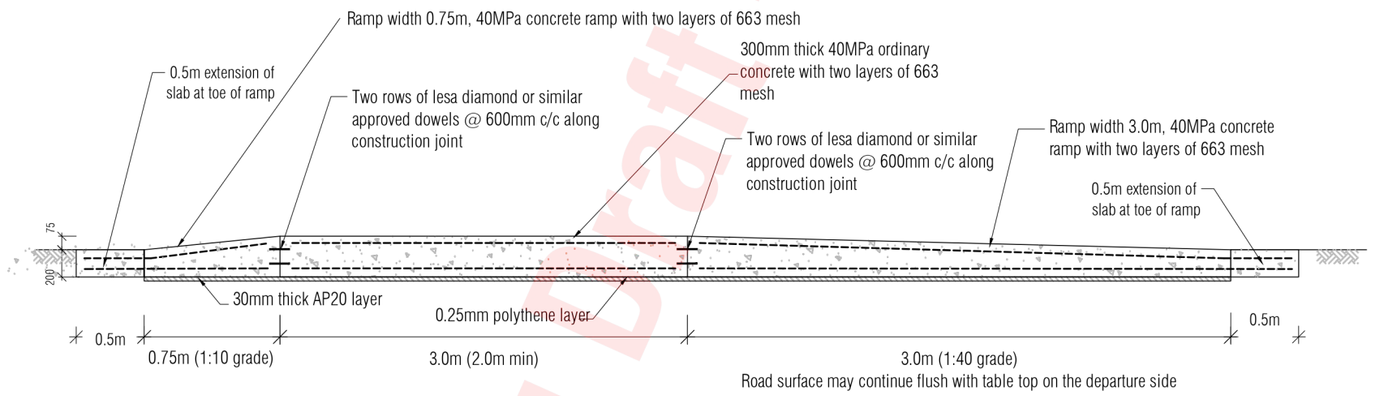
BUS BAY DETAIL

STATUS	FOR FAST TRACK CONSENT	REV
SCALE	1:150 @ A3	3
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P24-447-01-2830-RD	

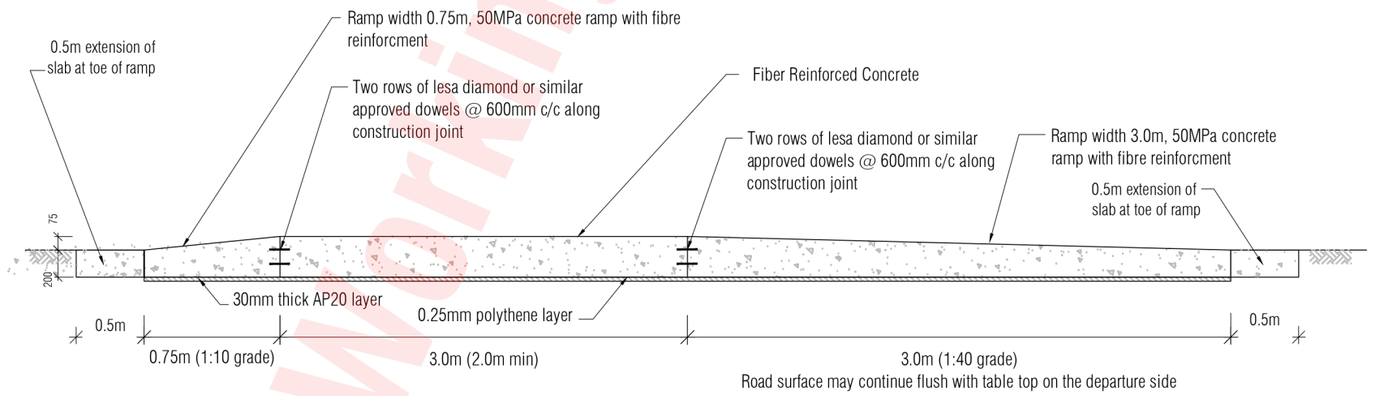
Advance warning signs on approaching speed-table or humps



PLAN
NOT TO SCALE



SECTION A-A
NOT TO SCALE



SECTION A-A (ALTERNATE OPTION)
NOT TO SCALE

NOTES

1. See Engineering Design Code - Road drainage for design of catchpits or alternative drainage.
2. All work to have a tolerance of ±5mm.
3. Reinforcing to be placed on spacers.
4. PW-39 sign with supplementary as shown to be erected in advance of treatment on both sides of the carriageway facing approaching traffic
5. Where the speed table is greater than 6.0m in width a longitudinal joint shall be created

Transport Design Manual | Standard Engineering Details

TC0022

Review 1
DATE: February 14, 2020

TRANSPORT DESIGN MANUAL

Speed table (Swedish Type For Frequent Bus Network)

Date: Document in Review
SED No. TC0022
Version A

REVISION DETAILS	INT	DATE
1 ISSUED FOR 90% DESIGN	NS	29/11/24
2 FOR THE 99% SUBMISSION	EW	10/02/2025
3 FOR FAST TRACK CONSENT	EW	21/02/2025

STATUS	FOR FAST TRACK CONSENT
SCALE	N.T.S
COUNCIL	AUCKLAND COUNCIL
DWG NO	P24-447-01-2850-RD

REV 3

DRURY CENTRE-STAGE 2
AT TDM - SPEED (SWEDISH) TABLE

SURVEYED		JK
DESIGNED		JK
DRAWN		NS
CHECKED		GW
APPROVED		CD

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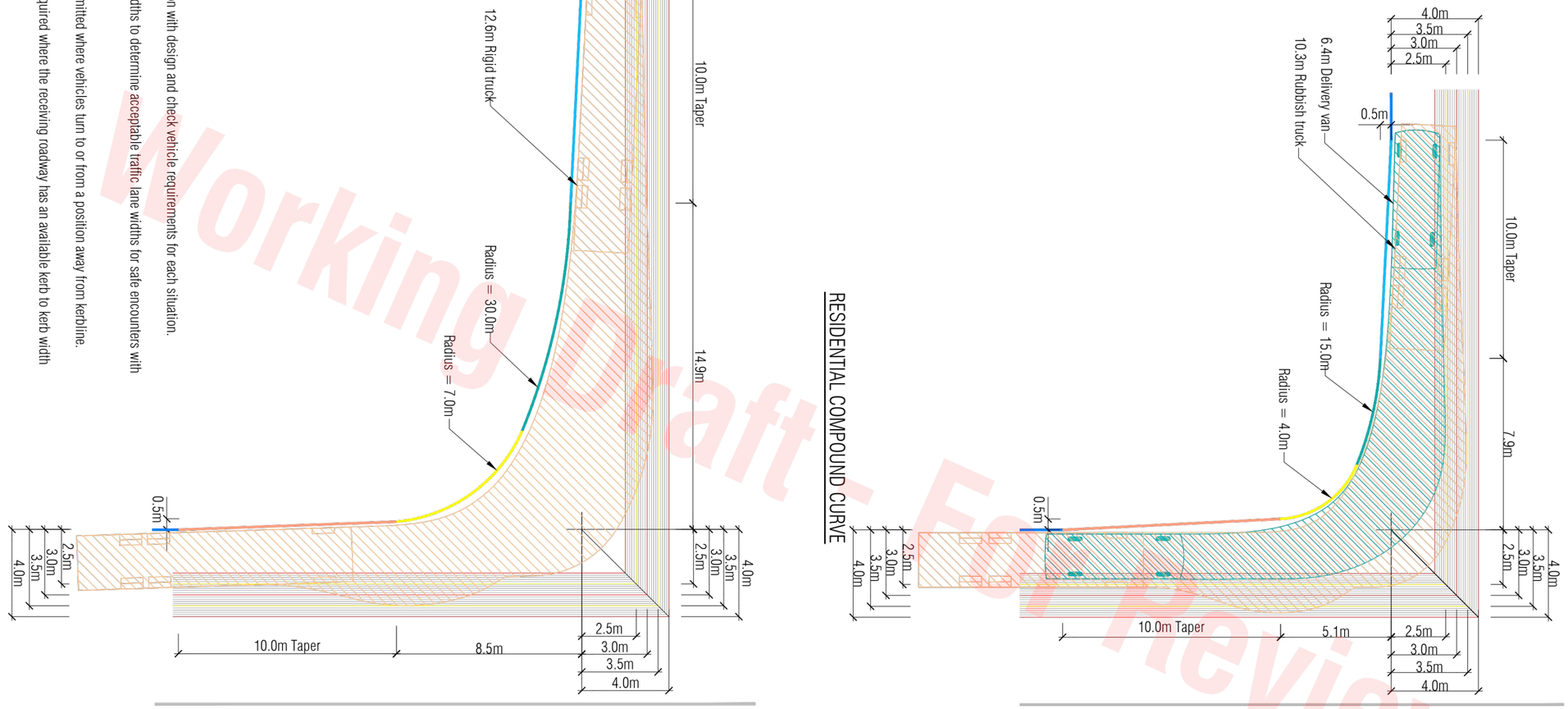

NOTES

1. Use in conjunction with design and check vehicle requirements for each situation.
2. Use graduated widths to determine acceptable traffic lane widths for safe encounters with passing vehicles.
3. Tapers may be omitted where vehicles turn to or from a position away from kerbline.
4. Tapers are not required where the receiving roadway has an available kerb to kerb width of 7m or greater.

Review 1

DATE: February 14, 2020

TDM TECHNICAL STANDARDS

Compound corner templates

GD0004

Version A

Date: Document in Review

SED No.

Transport Design Manual | Standard Engineering Details

GD0004

REVISION DETAILS		INT	DATE	SURVEYED	
1	ISSUED FOR 90% DESIGN	NS	29/11/24	DESIGNED	JK
2	FOR THE 99% SUBMISSION	EW	10/02/2025	DRAWN	NS
3	FOR FAST TRACK CONSENT	EW	21/02/2025	CHECKED	GW
				APPROVED	CD

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8 NUGENT ST, GRAFTON,
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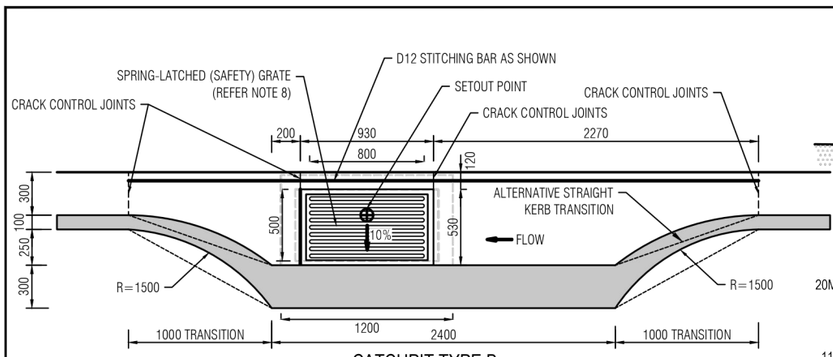
Kiwi Property

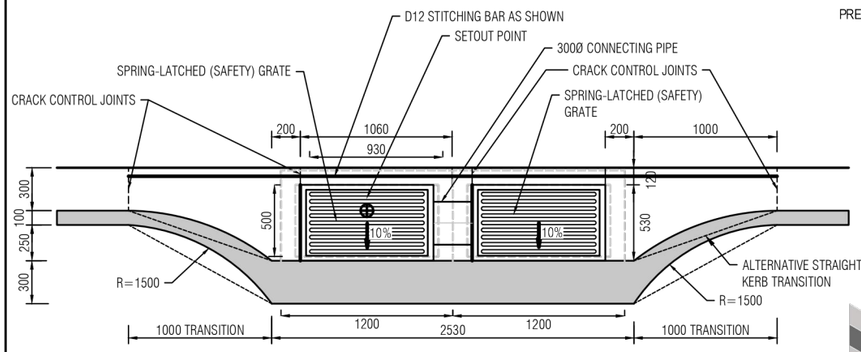
DRURY CENTRE-STAGE 2

AT TDM - COMPOUND CORNER

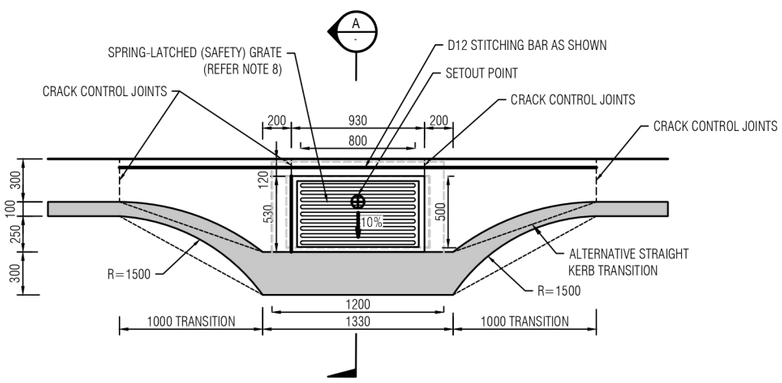
STATUS	FOR FAST TRACK CONSENT	REV
SCALE	N.T.S	3
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P24-447-01-2851-RD	



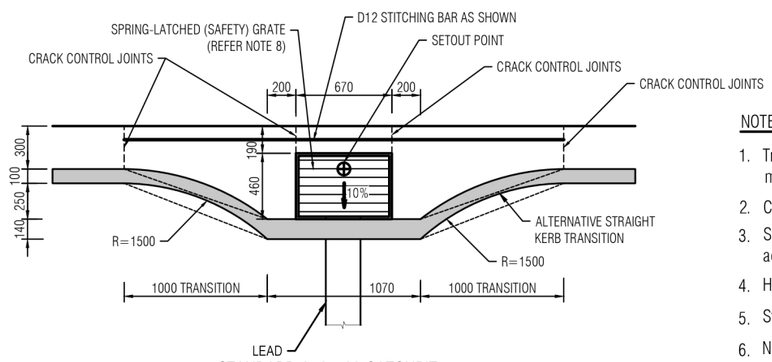
CATCHPIT TYPE B
SCALE: NTS



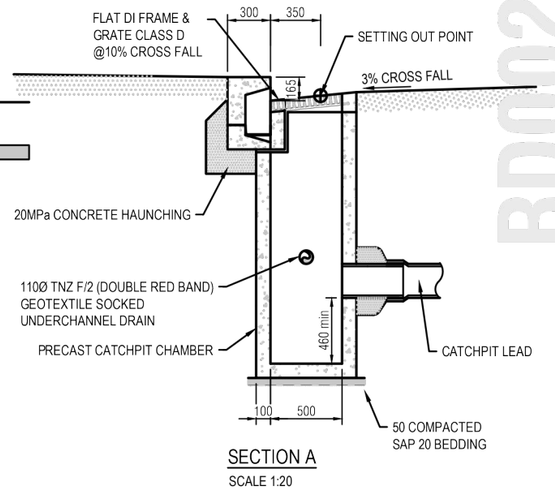
DOUBLE CATCHPIT
SCALE: NTS



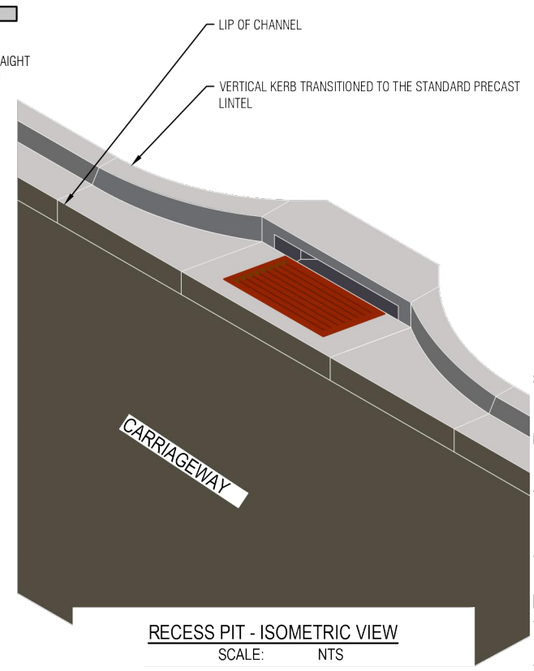
CATCHPIT TYPE A
SCALE: NTS



STANDARD 670x460 CATCHPIT
SCALE: NTS



SECTION A
SCALE 1:20



RECESS PIT - ISOMETRIC VIEW
SCALE: NTS

RD0020

NOTES:

1. Transition kerb to be precast, slip - formed to radius or with in situ concrete element to match to adjoining kerb type
2. Catchpit to be setout by kerbs stringline on-site to ensure correct location
3. Standard 670x460 dished grate is not cycle-friendly. Do not use where cycle access permitted.
4. Half syphon to be used in combined catchment areas only.
5. Standard 670x460 catchpit to be 1.4m deep.
6. Nominal Dimensions only. Refer to supplier's information for actual dimensions of catchpits. Minimum wall thickness 75 mm, Sump depth 450 min. Minimum depth to catchpit lead invert 725mm in grassed areas.
7. Increase class of pipe where minimum cover of 900mm cannot be achieved for Catchpit leads.
8. Catchpit grates should be spring - latched (safety) grate should be Class D to AS3996 with a minimum weight of 62.5kg
   - Comply with EDC - Road drainage & surface water control, Clause 6.5
9. Back entry plates and galvanised lintel edges should have rounded edges to minimise worker injury.
10. Catchpit connecting to combined network system (wastewater/stormwater) should be installed with a spring latched safety grate.

Transport Design Manual | Standard Engineering Details

CHIEF ENGINEER APPROVED

TDM TECHNICAL STANDARDS

Semi recessed catchpit

Date: 30/11/2021

SED No. **RD0020**

Version **C**

REVISION DETAILS		INT	DATE		
1	ISSUED FOR 90% DESIGN	NS	29/11/24	SURVEYED	
2	FOR THE 99% SUBMISSION	EW	10/02/2025	DESIGNED	JK
3	FOR FAST TRACK CONSENT	EW	21/02/2025	DRAWN	NS
				CHECKED	GW
				APPROVED	CD

STATUS	FOR FAST TRACK CONSENT	REV	3
SCALE	N.T.S		
COUNCIL	AUCKLAND COUNCIL		
DWG NO	P24-447-01-2852-RD		

DRURY CENTRE-STAGE 2

AT TDM - SEMI-RECESSED CATCH PIT

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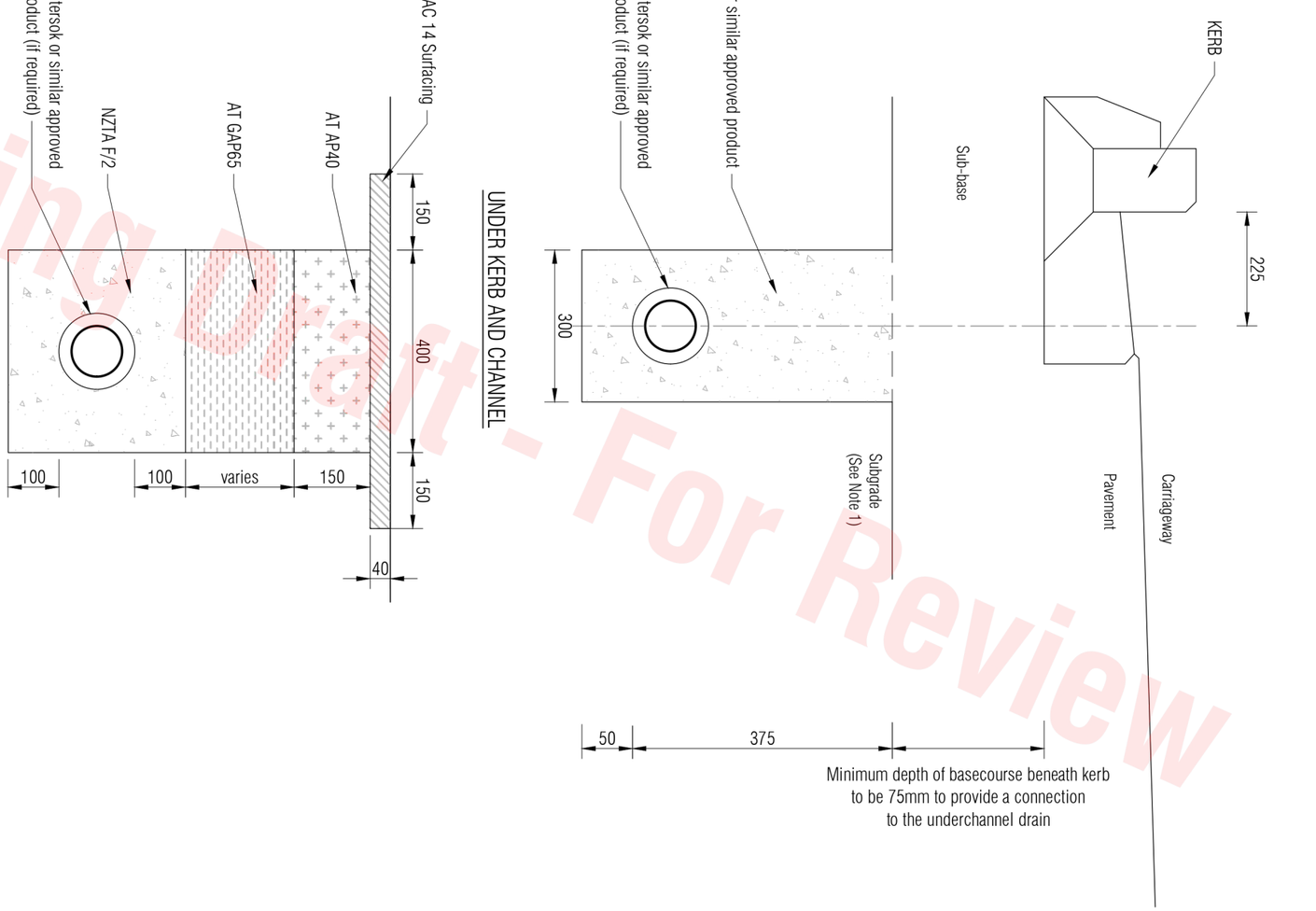

NOTES

1. Construct subsoil drain after construction and shapeing of Subgrade. Subgrade must be level or fall towards subsoil drain
2. Underchannel Drains
   Shall be approved perfolated drain pipe of 100mm internal diameter unless specifid or scheduled otherwise. Subsoildrain pipes shall comply with the requirements of TNZ Specifications F/2. Trench backfill shall be approved AP20 material or similar. Trench backfill shall be approved 30/10 scoria or similar if a filter sock is provided. Depth below subgrade to be 375mm.
3. Sub-base material shall be laid with fall towards a downstream catchpit or other access chamber with connection invert level above the soffit level of the outlet pipe (or water level in a chamber with half-siphon traps)

Review 1

DATE: March 2, 2023

TDM TECHNICAL STANDARDS

Subsoil drain

SED No. RD0010

Version B

Date: Document in Review

Transport Design Manual | Standard Engineering Details

RD0010

REVISION DETAILS		INT	DATE	SURVEYED	
1	ISSUED FOR 90% DESIGN	NS	29/11/24	DESIGNED	JK
2	FOR THE 99% SUBMISSION	EW	10/02/2025	DRAWN	NS
3	FOR FAST TRACK CONSENT	EW	21/02/2025	CHECKED	GW
				APPROVED	CD

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Kiwi Property

DRURY CENTRE-STAGE 2

AT TDM - SUBSOIL DRAIN

STATUS	FOR FAST TRACK CONSENT	REV
SCALE	N.T.S	3
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P24-447-01-2853-RD	

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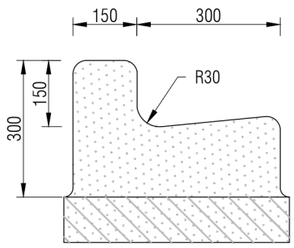
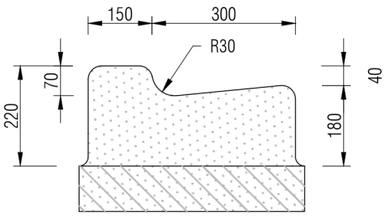
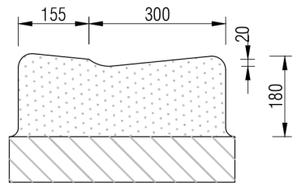


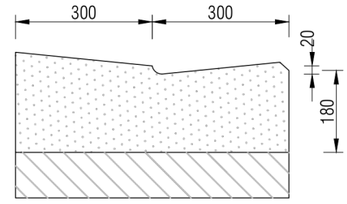
TYPE 3 EXTRUDED STANDARD KERB AND CHANNEL



TYPE 3 EXTRUDED STANDARD KERB AND CHANNEL (OPTIONAL)

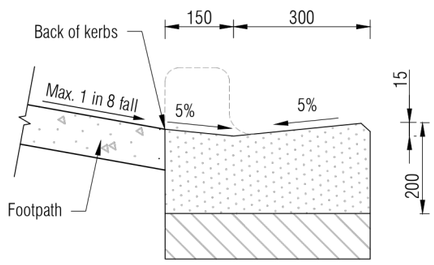


TYPE 4 EXTRUDED VEHICLE CROSSING

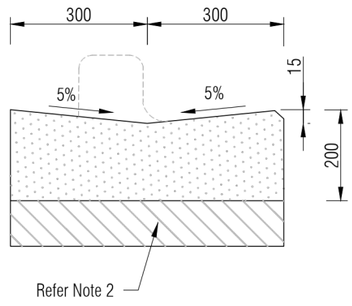


TYPE 4 IN-SITU VEHICLE CROSSING

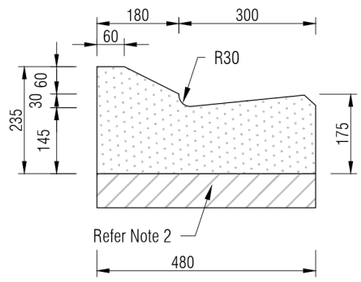
KC0002



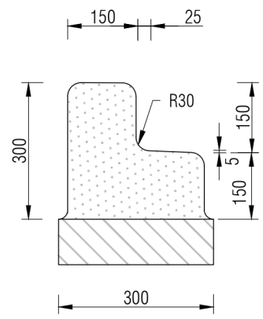
TYPE 5 EXTRUDED PRAM CROSSING



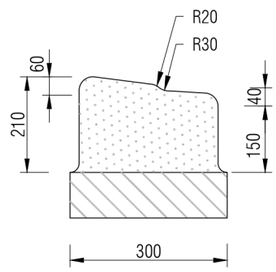
TYPE 5 IN-SITU PRAM CROSSING



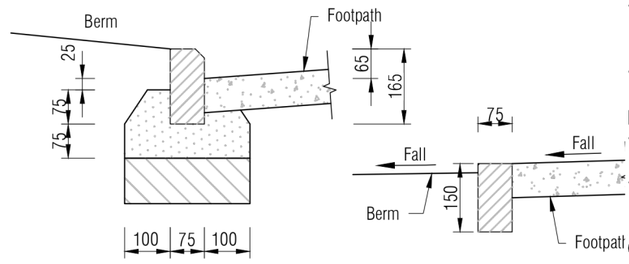
TYPE 6 EXTRUDED MOUNTABLE KERB AND CHANNEL



TYPE 7 EXTRUDED STANDARD KERB ONLY



TYPE 7C EXTRUDED KERB ONLY AT VEHICLE CROSSING



TYPE 8 BASALT OR PRE-CAST KERB EDGING (75x150mm)

NOTES :

1. Jointing:
   Precast kerb neatly pointed with 10mm min. cement mortar. Extruded kerbs cracking control joints formed or saw cut to a minimum depth of 30mm at max. 3.00m. intervals to coincide with concrete footpath joints (where the kerb is adjacent to the footpath). Crack control joints between bluestone kerb blocks shall be approximately 20mm wide (measured at the top and front faces) with neat square jointing 2 to 4 mm proud. Joints must located either side of vehicle crossings.
2. Bedding:
   Kerbing must be laid on 300mm. min. GAP65 subbase in roads and 100mm GAP40 in footpaths (where subgrade CBR>5). If the subgrade CBR<5 then roads and footpaths must be undercut and backfilled with appropriate backfill material.
3. Concrete Grades:
   Precast kerb blocks 20 MPa. In-Situ channel and haunching 20 MPa. Extruded concrete 25 MPa fibre reinforced.
4. All chamfers 20mm
5. Selection and use of kerb and channel types must comply with standards in the Transport Design Manual or Auckland Code of Practice for Land Development and Subdivision – Chapter 3: Transport

Transport Design Manual | Standard Engineering Details

CHIEF ENGINEER APPROVED

TDM TECHNICAL STANDARDS

Kerb and channel - Type 3 - 8

Date: 29/07/2022

SED No. KC0002

Version B

REVISION DETAILS		INT	DATE		
1	ISSUED FOR 90% DESIGN	NS	29/11/24	SURVEYED	JK
2	FOR THE 99% SUBMISSION	EW	10/02/2025	DESIGNED	NS
3	FOR FAST TRACK CONSENT	EW	21/02/2025	DRAWN	GW
				CHECKED	CD
				APPROVED	

STATUS	FOR FAST TRACK CONSENT
SCALE	N.T.S
COUNCIL	AUCKLAND COUNCIL
DWG NO	P24-447-01-2854-RD
REV	3

DRURY CENTRE-STAGE 2

AT TDM - KERB AND CHANNEL TYPE 3-8

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BUILDING B, LEVEL 1
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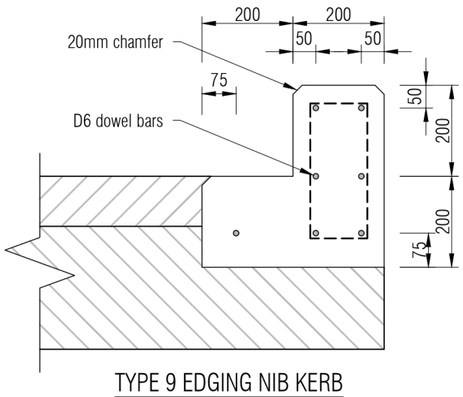
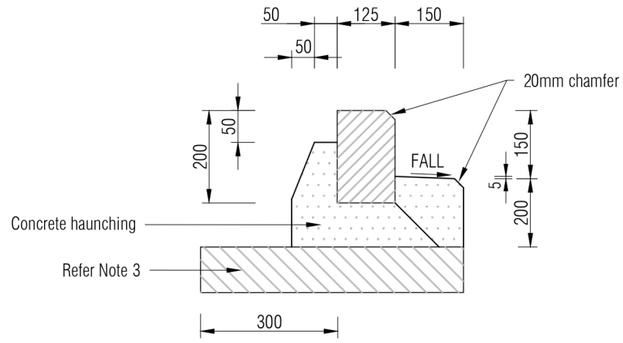
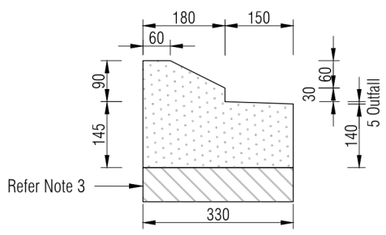
KC0003



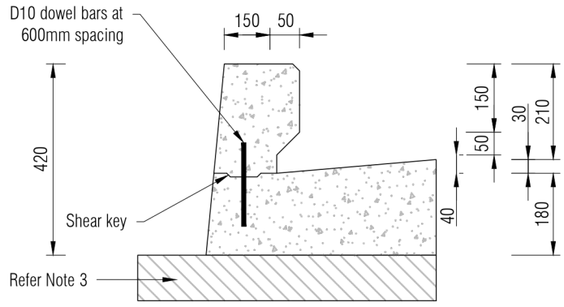
TYPE 9 EDGING NIB KERB



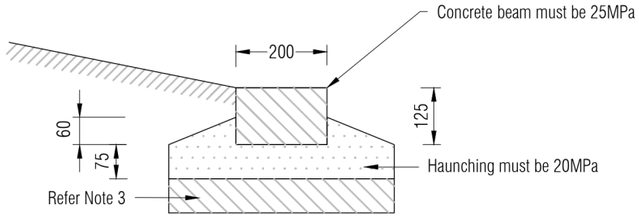
TYPE 10 KERB AND STUB



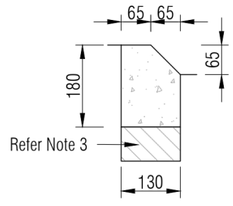
TYPE 11 MOUNTABLE NIB KERB



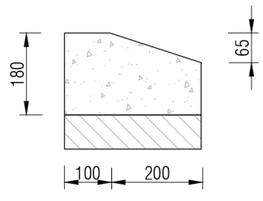
TYPE 12 RAISED NON-MOUNTABLE SAFETY KERB AND CHANNEL NIB



TYPE 13 FLAT EDGE BEAMS



TYPE 14 EXTRUDED CYCLE PATH BEVEL KERB



TYPE 15 EXTRUDED CYCLE MOUNTABLE KERB

NOTES:

1. Concrete grades:
2. Precast kerb blocks 20MPa. In-Situ channel and haunching 20MPa. 25 MPa fibre reinforced concrete for slip-form.
3. Bedding:
   Kerbing must be laid on 300mm. min. GAP65 subbase in roads and 100mm GAP40 in footpaths (where subgrade CBR>5).
   If the subgrade CBR<5 then roads and footpaths must be undercut and backfilled with an approved filling material
4. Jointing:
   Precast and blue stone kerb to be neatly pointed with 10mm (min) cement mortar. No preshaped mortar products shall be used.
   Extruded kerbs cracking control joints formed or saw cut to aminimum depth of 30mm at max. 3.00m intervals. If footpath is adjacent to kerb the saw cuts must coincide with the concrete footpath joints. Joints between bluestone kerb blocks must be approximately 20mm wide (measured at the top and front faces) with neat square jointing 2 to 4 mm proud. Crack control joints must located either side of vehicle crossings.
5. Basalt kerb blocks must not extend across vehicle or pram crossings.
6. Selection and use of kerb and channel types must comply with standards in the Transport Design Manual or Auckland Code of Practice for Land Development and Subdivision – Chapter 3: Transport

Transport Design Manual | Standard Engineering Details

CHIEF ENGINEER APPROVED

TDM TECHNICAL STANDARDS

Kerb and channel - Type 9 - 15

Date: 29/07/2022

SED No. KC0003

Version B

REVISION DETAILS		INT	DATE		
1	ISSUED FOR 90% DESIGN	NS	29/11/24	SURVEYED	
2	FOR THE 99% SUBMISSION	EW	10/02/2025	DESIGNED	JK
3	FOR FAST TRACK CONSENT	EW	21/02/2025	DRAWN	NS
				CHECKED	GW
				APPROVED	CD

STATUS	FOR FAST TRACK CONSENT	REV	3
SCALE	N.T.S		
COUNCIL	AUCKLAND COUNCIL		
DWG NO	P24-447-01-2855-RD		

DRURY CENTRE-STAGE 2

AT TDM - KERB AND CHANNEL TYPE 9-15

Kiwi Property
BUILDING B, LEVEL 1
8 NUGENT ST, GRAFTON,
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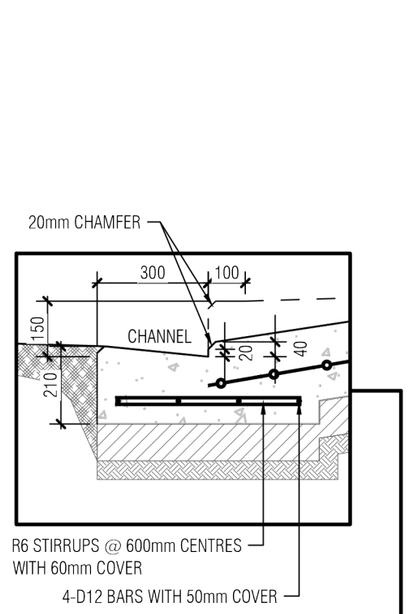
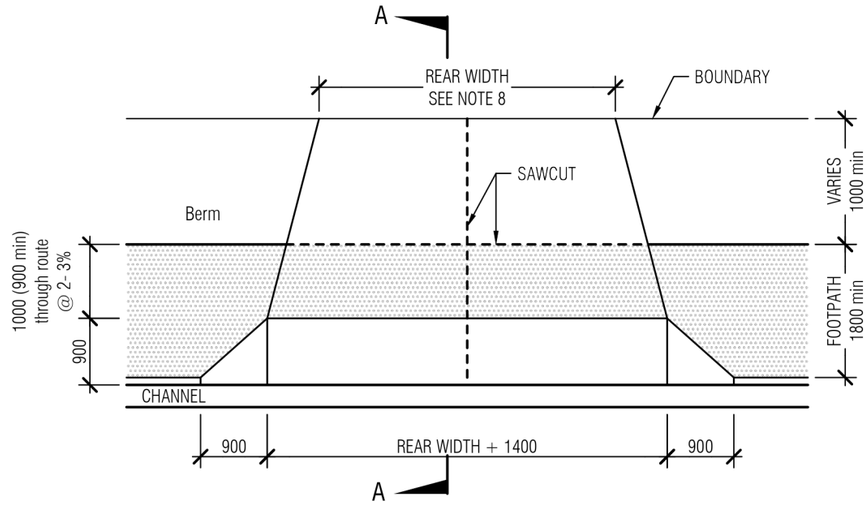
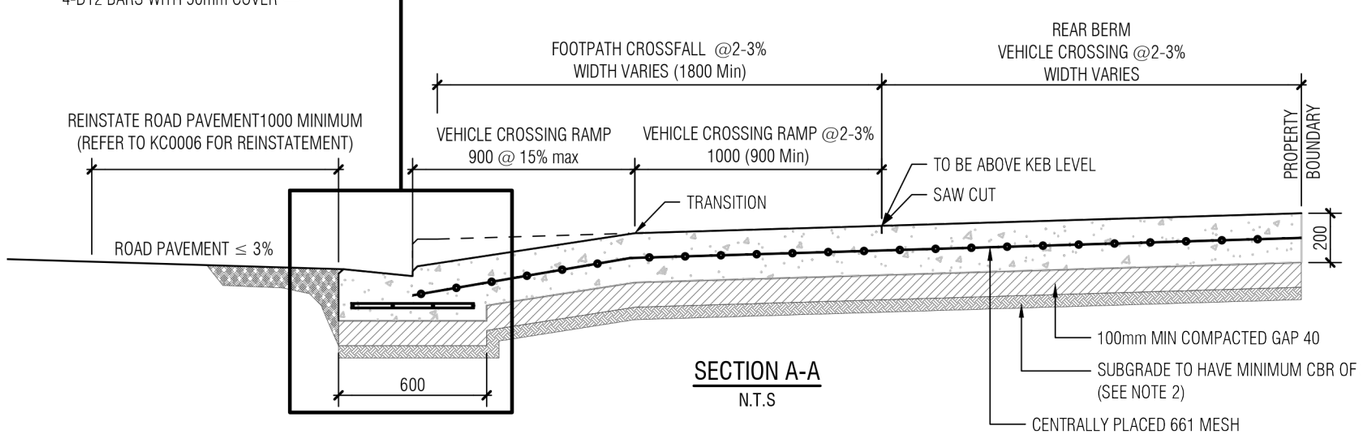
PERSPECTIVE VIEW
N.T.S





VEHICLE CROSSING
FOOTPATH NEXT TO KERB
N.T.S



SECTION A-A
N.T.S

Notes:

1. All dimensions are in millimetres unless noted otherwise.
2. If CBR of existing Subgrade is <3, Pavement Design should be provided and approved by Auckland Transport.
3. All concrete to be 20 MPa and constructed in accordance with NZS 3109 with a broom finish and contain upto 4Kg/m^3 black oxide.
4. Saw cut expansion joints at 4m centres maximum each way in addition to saw cuts shown on dwg.
5. Any existing infrastructure within the crossing may require specific design approval for relocation.
6. Construct in same material and finish as surrounding footpath.
7. Width of vehicle crossing to be designed by using tracking curves for intended large heavy vehicles.
8. Rear Width as permitted under Auckland Unitary Plan;
   COMMERCIAL USE;
   3700-4000 - Single vehicle crossing
   6000-7000 - Double vehicle crossing
   RESIDENTIAL USE;
   2750-3000 - Single vehicle crossing
   5500-6000 - Two-Way Shared Access
   3000-3500 - One-Way Shared Access
9. Formwork shall be full depth of concrete and straight.

VX0202

Transport Design Manual | Standard Engineering Details

CHIEF ENGINEER APPROVED

TDM TECHNICAL STANDARDS

Commercial Vehicle Crossing (Sheet 2 of 4)

Date: 11/04/2022

SED No. VX0202

Version C

REVISION DETAILS		INT	DATE
1	ISSUED FOR 90% DESIGN	NS	29/11/24
2	FOR THE 99% SUBMISSION	EW	10/02/2025
3	FOR FAST TRACK CONSENT	EW	21/02/2025

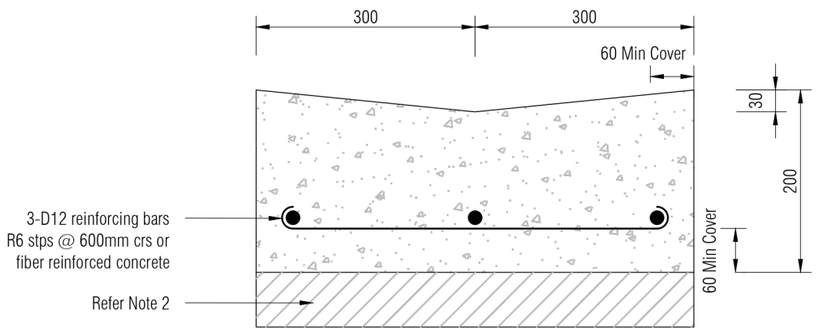
SURVEYED		JK	
DESIGNED		NS	
DRAWN		GW	
CHECKED		CD	
APPROVED			

STATUS	FOR FAST TRACK CONSENT
SCALE	N.T.S
COUNCIL	AUCKLAND COUNCIL
DWG NO	P24-447-01-2856-RD
REV	3

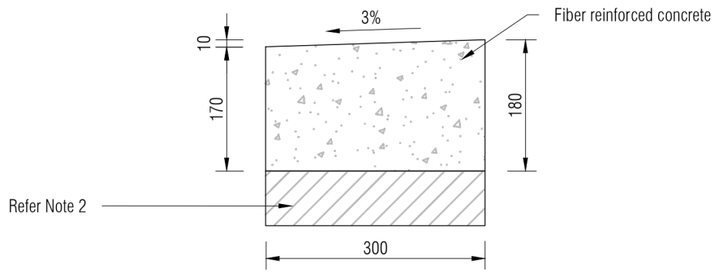
DRURY CENTRE-STAGE 2

AT TDM - COMMERCIAL VEHICLE CROSSING

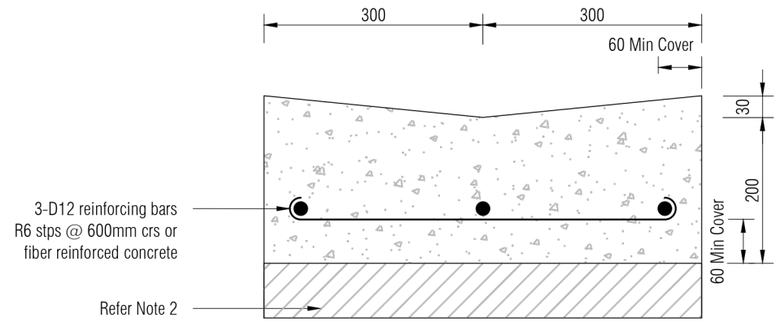
WOODS Est.1970
Kiwi Property
BUILDING B, LEVEL 1
8 NUGENT ST, GRAFTON,
AUCKLAND 1023
+64 9 308 9229
WOODS.CO.NZ



TYPE 17 V-DISH CHANNEL INSITU NOT UNDER TRAFFIC



TYPE 16 FLAT EDGE BEAM



TYPE 18 V-DISH CHANNEL UNDER TRAFFIC

NOTES

1. Concrete Grades:
   - Insitu concrete 20MPa
   - Extruded concrete 20MPa, fiber reinforced
   - 25 MPa fibre reinforced concrete for slip-form.

2. Bedding:
   To consist of 300mm (min) GAP65 subbase in roads (where CBR>5).

3. Jointing:
   Extruded channels cracking control joints formed or saw cut to a minimum depth of 30mm at max 3.00m intervals for unreinforced channels and 3.00m (max) for reinforced channels/nib. If there is a footpath adjacent to the channel/nib the sawcut must coincide with the concrete footpath joint.

4. Selection and use of kerb and channel types must comply with standards in the Transport Design Manual or Auckland Code of Practice for Land Development and Subdivision – Chapter 3: Transport

KC0004

Transport Design Manual | Standard Engineering Details

APPROVED CHIEF ENGINEER

TDM TECHNICAL STANDARDS

V-Dish Channel - Type 16 to 18

Date: 29/07/2022

SED No. KC0004

Version C

REVISION DETAILS		INT	DATE		
1	ISSUED FOR 90% DESIGN	NS	29/11/24	SURVEYED	
2	FOR THE 99% SUBMISSION	EW	10/02/2025	DESIGNED	JK
3	FOR FAST TRACK CONSENT	EW	21/02/2025	DRAWN	NS
				CHECKED	GW
				APPROVED	CD

STATUS	FOR FAST TRACK CONSENT
SCALE	N.T.S
COUNCIL	AUCKLAND COUNCIL
DWG NO	P24-447-01-2857-RD
REV	3

DRURY CENTRE-STAGE 2

AT TDM - KERB AND CHANNEL TYPE 16-18

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

WOODS
Est.1970

TDM TECHNICAL STANDARDS

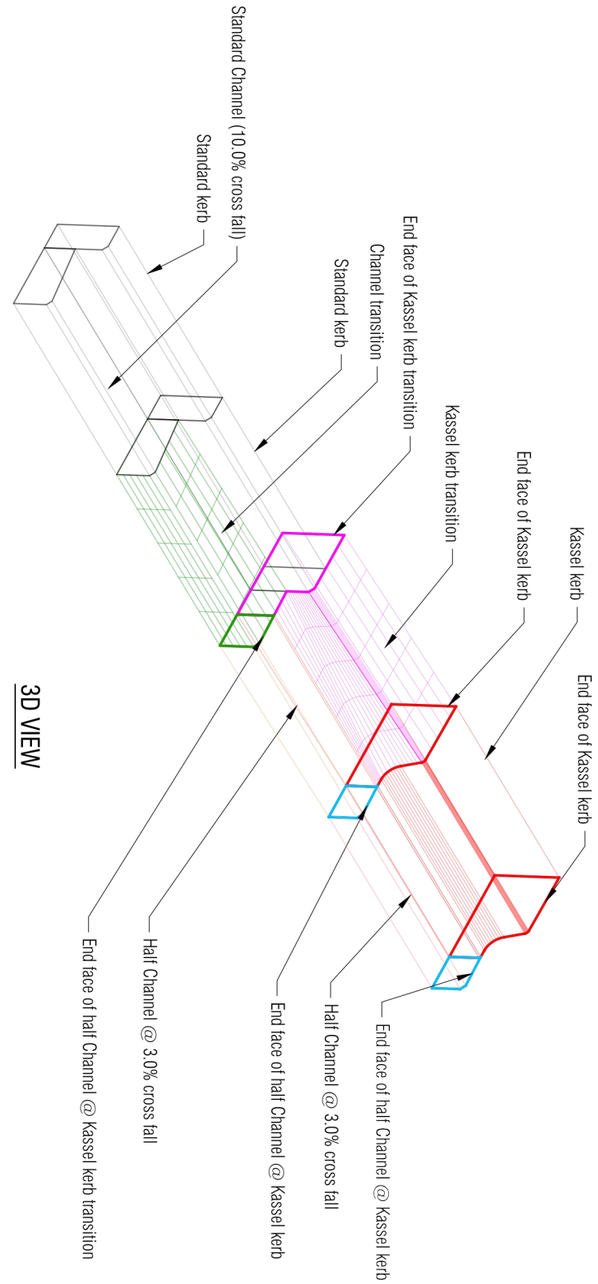
Kassel Kerb and Channel (Sheet 1 of 2)

CHIEF ENGINEER APPROVED

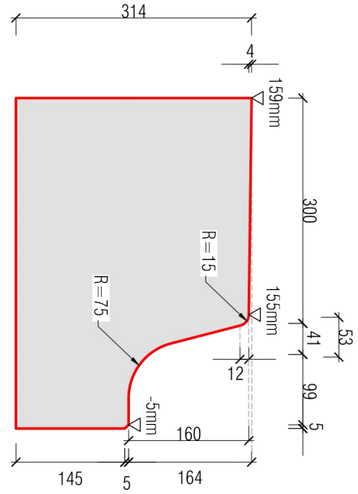
Date: 29/07/2022

SED No. **KC0030** Version **D**

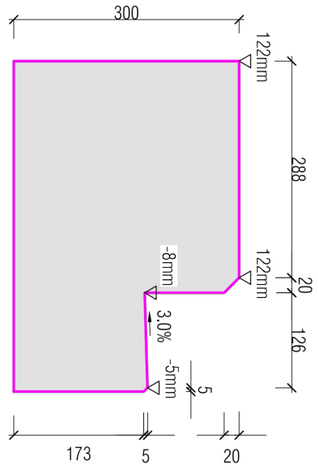
3D VIEW



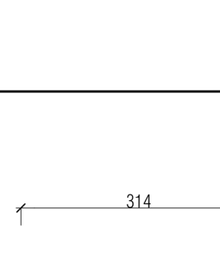
KASSEL KERB



KASSEL KERB TRANSITION

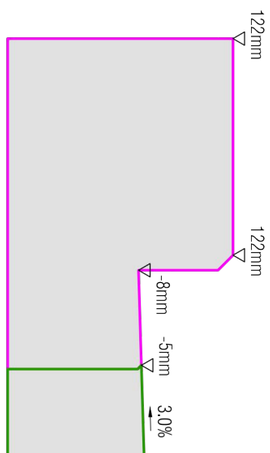


HALF CHANNEL @ KASSEL KERB



HALF CHANNEL @ KASSEL KERB TRANSITION

KASSEL KERB TRANSITION AND HALF CHANNEL



KASSEL KERB AND HALF CHANNEL

NOTES

1. Selection and use of kerb and channel types must comply with standards in the Transport Design Manual or Auckland Code of Practice for Land Development and Subdivision – Chapter 3: Transport

KC0030

Transport Design Manual | Standard Engineering Details

REVISION DETAILS		INT	DATE	SURVEYED	
1	ISSUED FOR 90% DESIGN	NS	29/11/24	DESIGNED	NS
2	FOR THE 99% SUBMISSION	EW	10/02/2025	DRAWN	NS
3	FOR FAST TRACK CONSENT	EW	21/02/2025	CHECKED	GW
				APPROVED	GW

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

Kiwi Property

DRURY CENTRE-STAGE 2

AT TDM - KASSEL KERB AND CHANNEL TRANSITION (SHEET 1 OF 2)

STATUS	FOR FAST TRACK CONSENT
SCALE	N.T.S
COUNCIL	AUCKLAND COUNCIL
DWG NO	P23-315-01-2858-RD
REV	3

Plot Date: 11:35:34 am,21 February 2025, ELLAWA
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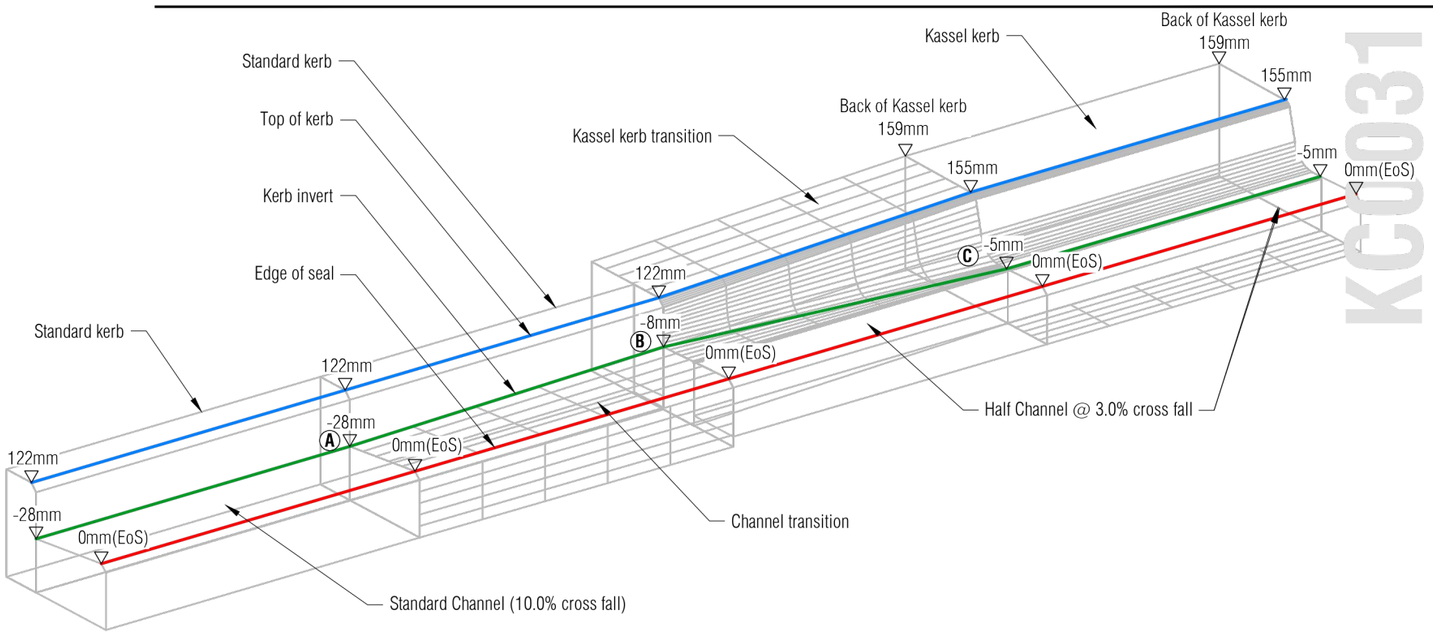
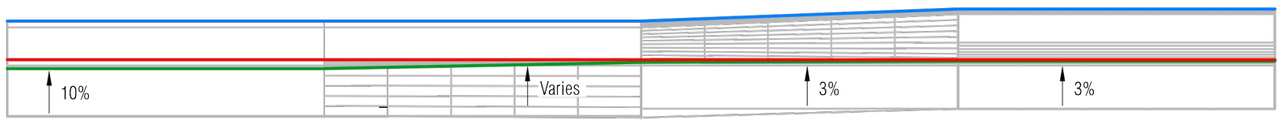
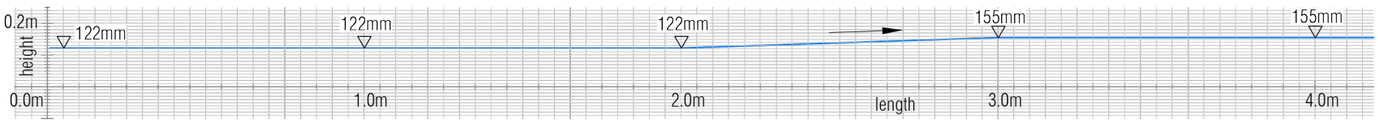


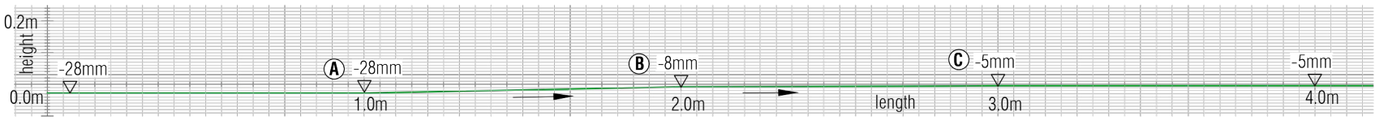
3D VIEW



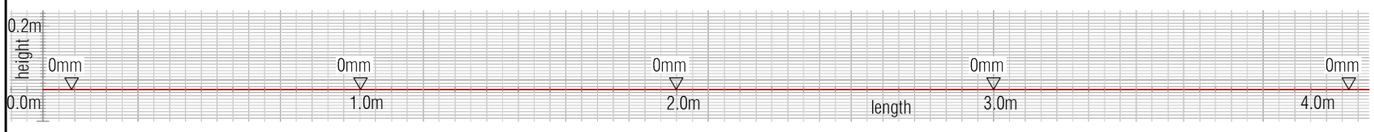
FRONT VIEW



PROFILE TOP OF KERB



PROFILE KERB INVERT



PROFILE EDGE OF SEAL

NOTES

1. A catchpit at upstream is desirable to avoid large volumes of water flow across 3% half channel which can result in water spreading on carriageway and causing splashing.
2. Uphill Kassel kerb and channel transition may need to be increased where ponding may occur on site due to near flat grades
3. Channel profile transition:
   - Flow from Kassel to standard kerb & channel will not pond.
   - Flow from standard kerb & channel to Kassel:
     * For road gradient < 2.5%, increase channel transition to 2.0 m or install catchpit upstream of Kassel kerbs.
     * For Road gradient < 1.5%, install catchpit upstream of Kassel kerbs or provide specific design of transition to avoid ponding. Specific design could include changing edge of seal level over the length of the transition, but this must not be abrupt for approaching bus
4. Selection and use of kerb and channel types must comply with standards in the Transport Design Manual or Auckland Code of Practice for Land Development and Subdivision – Chapter 3: Transport

Transport Design Manual | Standard Engineering Details

CHIEF ENGINEER APPROVED

TDM TECHNICAL STANDARDS

Kassel Kerb and Channel (Sheet 2 of 2)

Date: 29/07/2022

SED No. KC0031

Version B

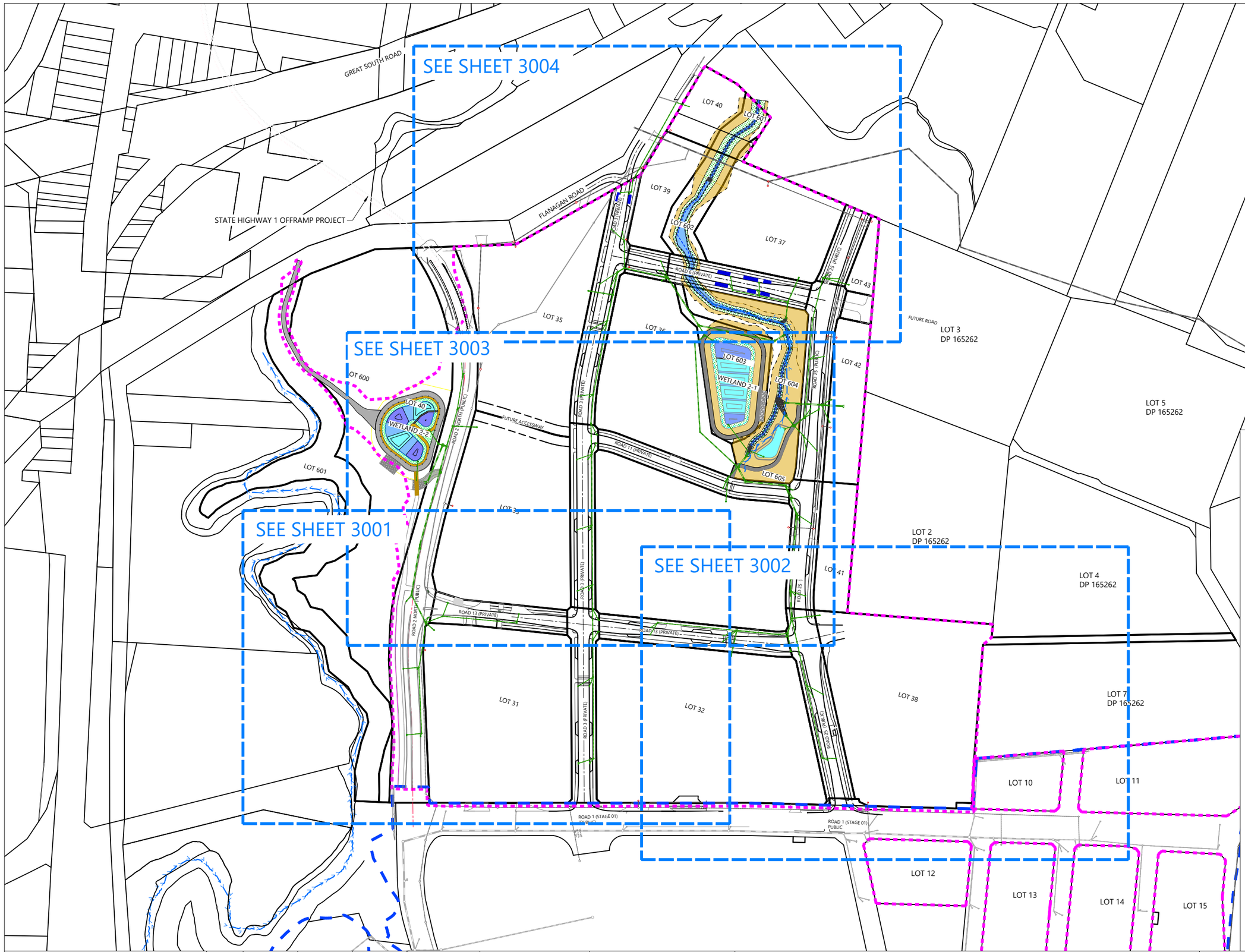
REVISION DETAILS	INT	DATE		
1 ISSUED FOR 90% DESIGN	NS	29/11/24	DESIGNED	NS
2 FOR THE 99% SUBMISSION	EW	10/02/2025	DRAWN	NS
3 FOR FAST TRACK CONSENT	EW	21/02/2025	CHECKED	GW
			APPROVED	GW

STATUS	FOR FAST TRACK CONSENT
SCALE	N.T.S
COUNCIL	AUCKLAND COUNCIL
DWG NO	P23-315-01-2859-RD
REV	3

DRURY CENTRE-STAGE 2

AT TDM - KASSEL KERB AND CHANNEL TRANSITION (SHEET 2 OF 2)

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



NOTES

1. ALL WORKS AND MATERIALS TO COMPLY WITH AUCKLAND COUNCIL STANDARDS AND WATERCARE STANDARDS.
2. FOR PIPE BEDDING DETAILS REFER TO STANDARD DETAIL SHEETS UNLESS OTHERWISE NOTED ON THE DRAINAGE LONG SECTIONS IN WHICH CASE SUCH NOTES TAKE PRECEDENCE).
3. CONCRETE PIPES ARE TO BE CLASS 2 (X) RRJ UNLESS OTHERWISE NOTED ON THE DRAINAGE LONG SECTIONS IN WHICH CASE SUCH NOTES SHALL TAKE PRECEDENCE.
4. ALL PIPE CROSSINGS UNDER ROADS TO BE HARDFILL AND RCRRJ CLASS BACKFILLED.
5. ALL MANHOLES ARE TO BE 1050mm DIA. UNLESS OTHERWISE NOTED ON THE DRAINAGE LONG SECTION IN WHICH CASE SUCH NOTES SHALL TAKE PRECEDENCE.
6. ALL CATCHPITS ARE TO BE STANDARD 675mm X 450mm.
7. THE CONTRACTOR IS TO PEG MANHOLES AND CHECK FINISHED EARTHWORKS LEVELS (MH LID LEVELS) PRIOR TO ORDERING MANHOLES.
8. PIPE GRADES ON THE LONG SECTIONS ARE CALCULATED FROM MANHOLE CENTRE TO MANHOLE CENTRE. THIS MAY RESULT IN CREEP (ON STEEP SITES PARTICULARLY) AND THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT LASER LEVELS ARE SET TO COMPENSATE FOR THIS.
9. ALL CESSPITS ON PUBLIC ROADS TO BE SEMI-RECESSED. REFER AT TDM DRAWING RD0020 REV A FOR DETAILS.
10. PIPES OVER 3.5m COVER TO BE CLASS 4.

LEGEND

- STAGE 2 WORKS EXTENT
- STAGE 1 WORKS EXTENT
- STAGE 2 BOUNDARY
- EXISTING STORMWATER LINE AND PIT — A/1
- PROPOSED STORMWATER LINE AND PIT — A/1
- EXISTING SANITARY SEWER LINE AND PIT — 1/1
- PROPOSED SANITARY SEWER LINE AND PIT — 1/1
- SINGLE CATCHPIT — CP
- DOUBLE CATCHPIT — DCP
- OUTLET ROCK RIPRAP
- PROPOSED RAINGARDEN
- EXISTING STREAM
- PROPOSED MSE WALL
- PROPOSED RETAINING WALL

SCALEBAR (m) 0 30 60 150 — SCALE | 1:3000 @A3 | 1:1500 @A1|

REVISION DETAILS		INT	DATE	SURVEYED	
3	90% DESIGN - REV 1	MK	02/12/2024	DESIGNED	MK
4	ISSUED FOR 99% SUBMISSION	MK	10/02/2025	DRAWN	MK
5	ISSUED FOR FAST TRACK CONSENT	MK	21/02/2025	CHECKED	GW
6	ISSUED FOR FAST TRACK CONSENT	GW	21/03/2025	APPROVED	CD

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

Kiwi Property

DRURY CENTRE-STAGE 2

OVERALL STORMWATER LAYOUT PLAN

N

STATUS	FOR FAST TRACK CONSENT	REV
SCALE	1:3000 @ A3	6
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P24-447-01-3000-DR	

Plot Date: 3:41:40 pm,21 March 2025, GLENNW

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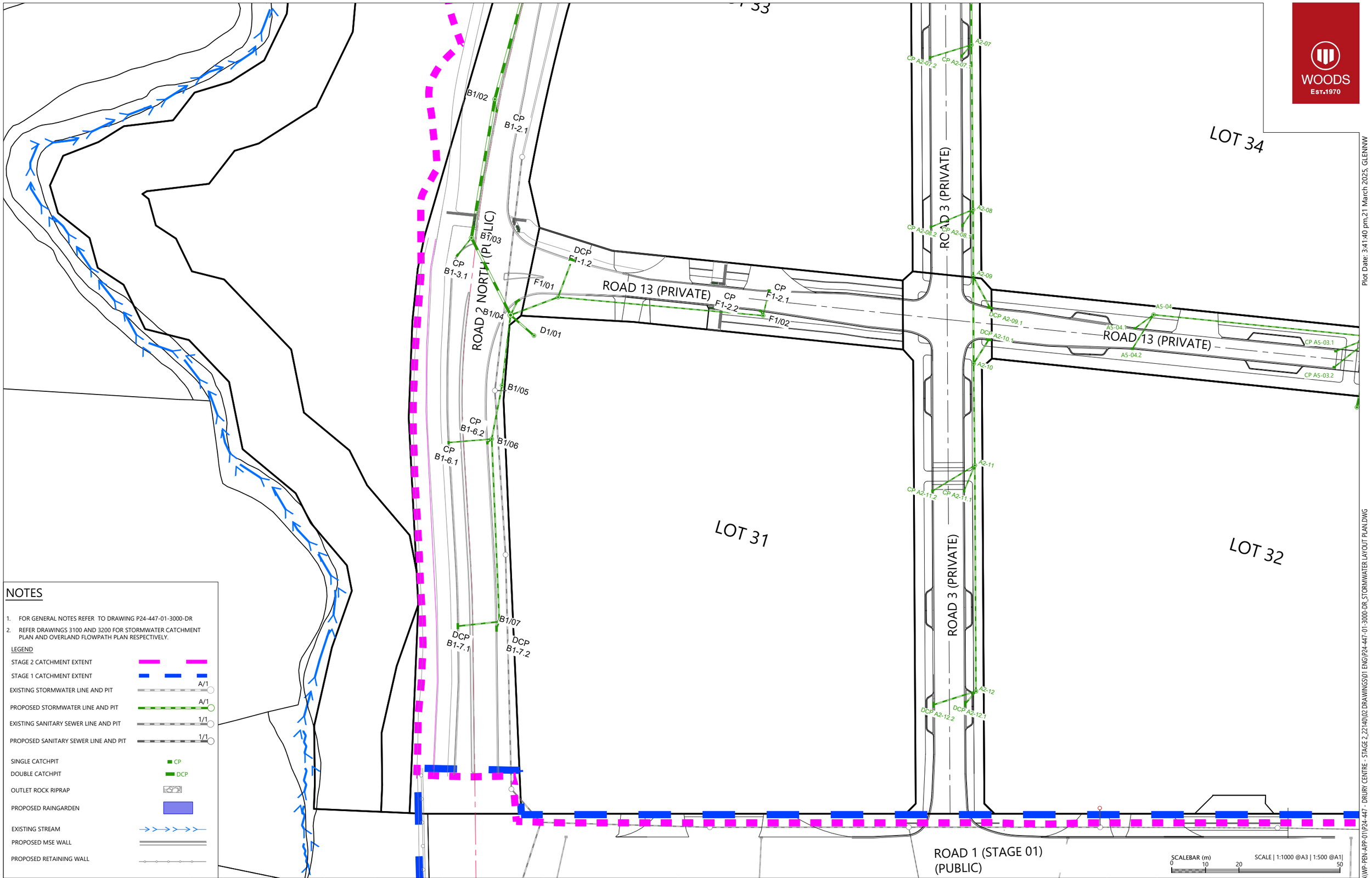

NOTES

1. FOR GENERAL NOTES REFER TO DRAWING P24-447-01-3000-DR
2. REFER DRAWINGS 3100 AND 3200 FOR STORMWATER CATCHMENT PLAN AND OVERLAND FLOWPATH PLAN RESPECTIVELY.

LEGEND

- STAGE 2 CATCHMENT EXTENT
- STAGE 1 CATCHMENT EXTENT
- EXISTING STORMWATER LINE AND PIT A/1
- PROPOSED STORMWATER LINE AND PIT A/1
- EXISTING SANITARY SEWER LINE AND PIT 1/1
- PROPOSED SANITARY SEWER LINE AND PIT 1/1
- SINGLE CATCHPIT CP
- DOUBLE CATCHPIT DCP
- OUTLET ROCK RIPRAP
- PROPOSED RAINGARDEN
- EXISTING STREAM
- PROPOSED MSE WALL
- PROPOSED RETAINING WALL

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

REVISION DETAILS		INT	DATE	SURVEYED	
3	90% DESIGN - REV 1	MK	02/12/2024	DESIGNED	MK
4	ISSUED FOR 99% SUBMISSION	MK	10/02/2025	DRAWN	MK
5	ISSUED FOR FAST TRACK CONSENT	MK	21/02/2025	CHECKED	GW
6	ISSUED FOR FAST TRACK CONSENT	GW	21/03/2025	APPROVED	CD

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

Kiwi Property

DRURY CENTRE-STAGE 2

STORMWATER LAYOUT PLAN (SHEET 1 OF 4)

N

STATUS	FOR FAST TRACK CONSENT	REV
SCALE	1:1000 @ A3	6
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P24-447-01-3001-DR	

Plot Date: 3:41:40 pm,21 March 2025, GLENNW

File: C:\12DSYNERGY\DATA\WP-PEN-APP-01\P24-447 - DRURY CENTRE - STAGE 2_22140\02 DRAWINGS\01 ENG\P24-447-01-3000-DR_STORMWATER LAYOUT PLAN.DWG

LOT 34

LOT 41

ROAD 25 (PUBLIC)

LOT 4
DP 165262

A3-07
CP A3-07.1
CP A3-07.2
U1-01
A3-08
A5-04
A5-04.1
A5-04.2
A5-03
CP A5-03.1
CP A5-03.2
A5-02
A5-01
DCP A5-01.1
DCP A5-01.2
W1-1
ROAD 13 (PRIVATE)

A3-09
CP A3-09.1
CP A3-09.2

LOT 38

LOT 7
DP 165262

LOT 32

ROAD 25 (PUBLIC)

A3-10
CP A3-10.1
CP A3-10.2

LOT 10

ROAD 1 (STAGE 01)
PUBLIC

NOTES

1. FOR GENERAL NOTES REFER TO DRAWING P24-447-01-3000-DR
2. REFER DRAWINGS 3100 AND 3200 FOR STORMWATER CATCHMENT PLAN AND OVERLAND FLOWPATH PLAN RESPECTIVELY.

LEGEND

- STAGE 2 CATCHMENT EXTENT
- STAGE 1 CATCHMENT EXTENT
- EXISTING STORMWATER LINE AND PIT A/1
- PROPOSED STORMWATER LINE AND PIT A/1
- EXISTING SANITARY SEWER LINE AND PIT 1/1
- PROPOSED SANITARY SEWER LINE AND PIT 1/1
- SINGLE CATCHPIT CP
- DOUBLE CATCHPIT DCP
- OUTLET ROCK RIPRAP
- PROPOSED RAINGARDEN
- EXISTING STREAM
- PROPOSED MSE WALL
- PROPOSED RETAINING WALL

SCALEBAR (m) 0 10 20 50

SCALE | 1:1000 @A3 | 1:500 @A1|

REVISION DETAILS		INT	DATE	SURVEYED	
3	90% DESIGN - REV 1	MK	02/12/2024	DESIGNED	MK
4	ISSUED FOR 99% SUBMISSION	MK	22/01/2025	DRAWN	MK
5	ISSUED FOR FAST TRACK CONSENT	MK	21/02/2025	CHECKED	GW
6	ISSUED FOR FAST TRACK CONSENT	GW	21/03/2025	APPROVED	CD

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

Kiwi Property

DRURY CENTRE-STAGE 2

STORMWATER LAYOUT PLAN (SHEET 2 OF 4)

STATUS	FOR FAST TRACK CONSENT
SCALE	1:1000 @ A3
COUNCIL	AUCKLAND COUNCIL
DWG NO	P24-447-01-3002-DR
REV	6

Plot Date: 3:41:41 pm,21 March 2025, GLENNW

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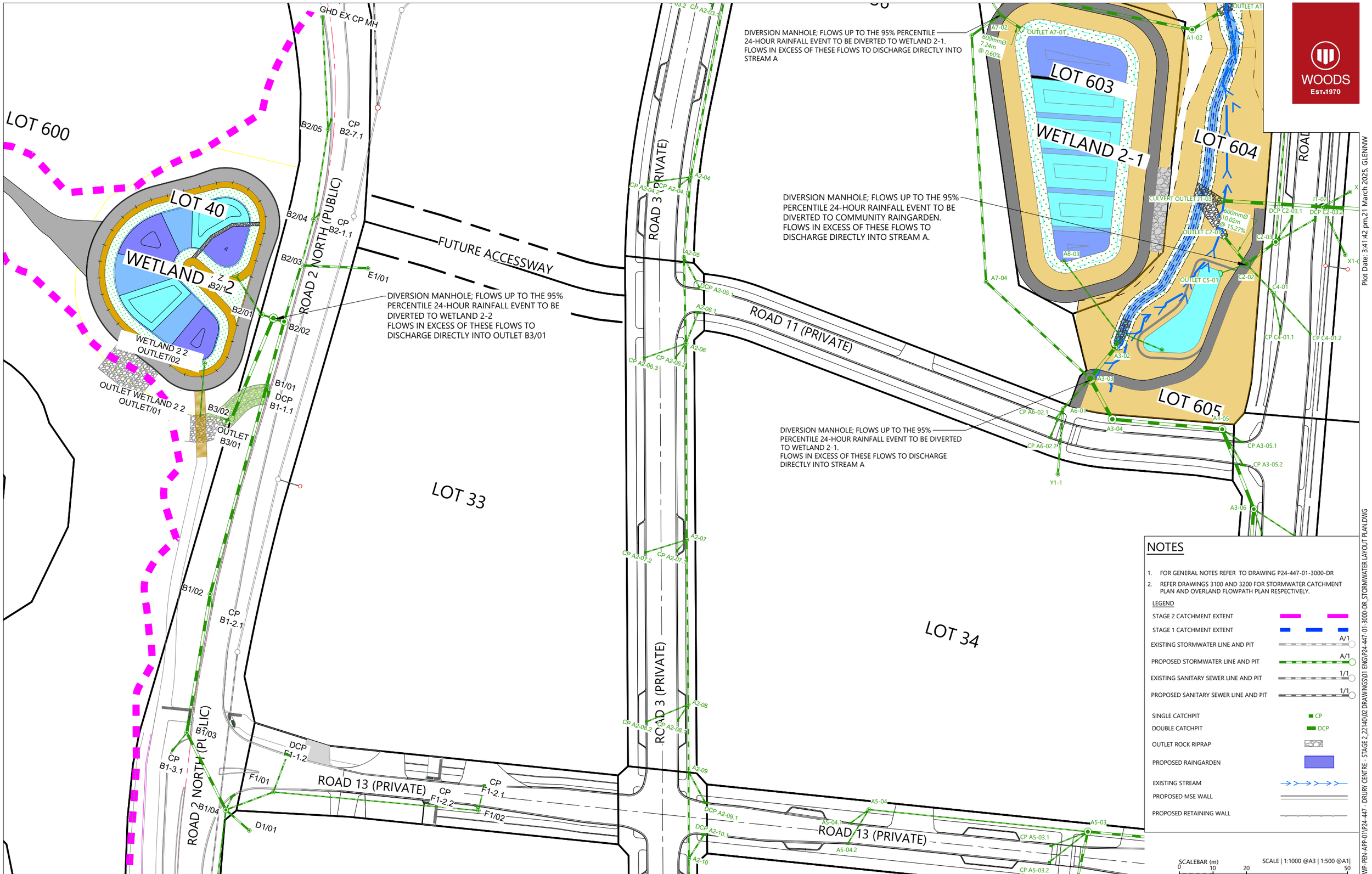

NOTES

1. FOR GENERAL NOTES REFER TO DRAWING P24-447-01-3000-DR
2. REFER DRAWINGS 3100 AND 3200 FOR STORMWATER CATCHMENT PLAN AND OVERLAND FLOWPATH PLAN RESPECTIVELY.

LEGEND

- STAGE 2 CATCHMENT EXTENT
- STAGE 1 CATCHMENT EXTENT
- EXISTING STORMWATER LINE AND PIT A/1
- PROPOSED STORMWATER LINE AND PIT A/1
- EXISTING SANITARY SEWER LINE AND PIT 1/1
- PROPOSED SANITARY SEWER LINE AND PIT 1/1
- SINGLE CATCHPIT CP
- DOUBLE CATCHPIT DCP
- OUTLET ROCK RIPRAP
- PROPOSED RAINGARDEN
- EXISTING STREAM
- PROPOSED MSE WALL
- PROPOSED RETAINING WALL

SCALEBAR (m) 0 10 20 50

SCALE | 1:1000 @A3 | 1:500 @A1

REVISION DETAILS		INT	DATE	SURVEYED	
3	90% DESIGN - REV 1	MK	02/12/2024	DESIGNED	MK
4	ISSUED FOR 99% SUBMISSION	MK	10/02/2025	DRAWN	MK
5	ISSUED FOR FAST TRACK CONSENT	MK	21/02/2025	CHECKED	GW
6	ISSUED FOR FAST TRACK CONSENT	GW	21/03/2025	APPROVED	CD

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

Kiwi Property

DRURY CENTRE-STAGE 2

STOREMWATER LAYOUT PLAN (SHEET 3 OF 4)

STATUS	FOR FAST TRACK CONSENT
SCALE	1:1000 @ A3
COUNCIL	AUCKLAND COUNCIL
DWG NO	P24-447-01-3003-DR
REV	6

Plot Date: 3:41:42 pm,21 March 2025, GLENNW

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WOODS
EST.1970

KIWIRAIL

FLANAGAN ROAD

LOT 40

LOT 601

LOT 39

LOT 602

LOT 37

LOT 35

LOT 36

LOT 603

LOT 43

ROAD 6 (PRIVATE)

ROAD 3 (PRIVATE)

ROAD 5 (PUBLIC)

FLOW TO DISCHARGE INTO EXISTING MANHOLE ON FLANAGAN ROAD

GIS 3000084490

GIS 3000084492

MH01/01

MH02/14

MH02/13

MH02/12

MH02/11

MH02/10

MH12/01

MH08/01

03-1

MH 03/01

MH09/01

MH03/02

MH 03/03

MH10/01

MH04/01

MH04/02

MH L1-01

CP K1-01

CP K1-02.1

CP K1-02.2

CP K1-2

CP A1-07.2

CP A1-07.1

A1-06

225mmØ 14.68m @ 1.00%

CP A1-05.2

225mmØ 9.39m @ 1.07%

A1-05

CP A1-05.1

A2-01

CP A2-01.2

CP A2-01.1

A2-02

A2-03

CP A2-03.2

CP A2-03.1

A1-04

S1-01

375mmØ 5.60m @ 5.00%

RG C1-04.2

225mmØ 11.24m @ 1.00%

C1-04.2

RG C1-03.2-1

DCP C1-03.2

C1-04.1

DCP C1-03.1

C1-04

C1-03

RG C1-04.1

225mmØ 5.87m @ 1.00%

C1-02

RG C1-03.1-1

RG C1-03.2-1

G1-01

CP C2-06.1

C2-06

CP C2-06.2

X1-04

C2-05

CP C2-04.1

C2-04

OUTLET C1-01

OUTLET A1-01

A1-03

375mmØ 9.89m @ 0.63%

A7-02

OUTLET A7-01

A7-03

600mmØ 7.24m @ 0.60%

A1-02

SCALEBAR (m)
0 10 20 50

SCALE | 1:1000 @A3 | 1:500 @A1

NOTES

1. FOR GENERAL NOTES REFER TO DRAWING P24-447-01-3000-DR
2. REFER DRAWINGS 3100 AND 3200 FOR STORMWATER CATCHMENT PLAN AND OVERLAND FLOWPATH PLAN RESPECTIVELY.

LEGEND

- STAGE 2 CATCHMENT EXTENT
- STAGE 1 CATCHMENT EXTENT
- EXISTING STORMWATER LINE AND PIT A/1
- PROPOSED STORMWATER LINE AND PIT A/1
- EXISTING SANITARY SEWER LINE AND PIT 1/1
- PROPOSED SANITARY SEWER LINE AND PIT 1/1
- SINGLE CATCHPIT CP
- DOUBLE CATCHPIT DCP
- OUTLET ROCK RIPRAP
- PROPOSED RAINGARDEN
- EXISTING STREAM
- PROPOSED MSE WALL
- PROPOSED RETAINING WALL

REVISION DETAILS		INT	DATE	SURVEYED	
3	90% DESIGN - REV 1	MK	02/12/2024	DESIGNED	MK
4	ISSUED FOR 99% SUBMISSION	MK	10/02/2025	DRAWN	MK
5	ISSUED FOR FAST TRACK CONSENT	MK	21/02/2025	CHECKED	GW
6	ISSUED FOR FAST TRACK CONSENT	GW	21/03/2025	APPROVED	CD

BUILDING B, LEVEL 1
8 NUGENT ST, GRAFTON,
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Kiwi Property

DRURY CENTRE-STAGE 2

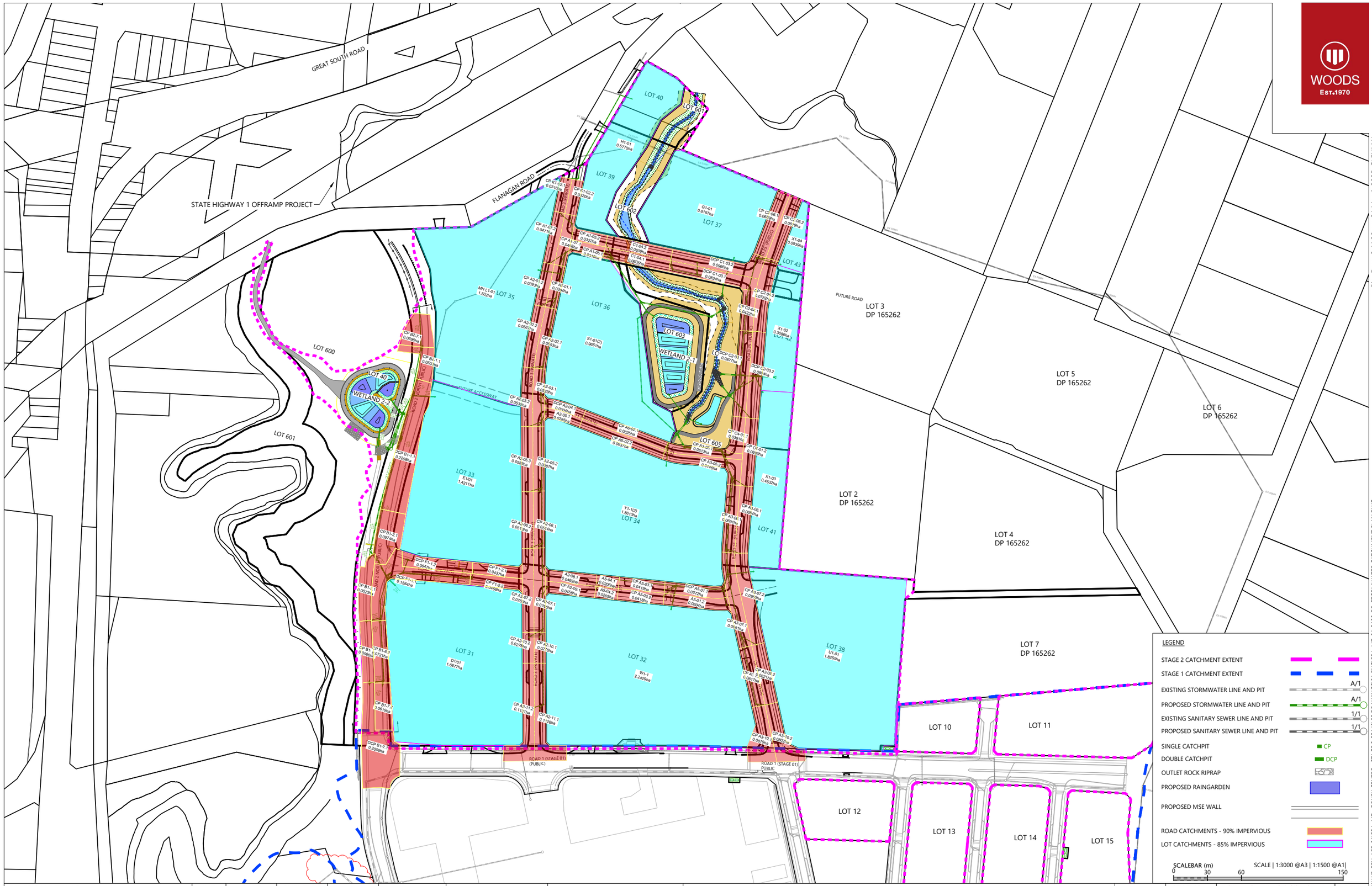
STORMWATER LAYOUT PLAN (SHEET 4 OF 4)

N

STATUS	FOR FAST TRACK CONSENT	REV
SCALE	1:1000 @ A3	6
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P24-447-01-3004-DR	

Plot Date: 3:41:42 pm,21 March 2025, GLENNW

File: C:\12DSYNERGY\DATA\WP-PEN-APP-01\P24-447 - DRURY CENTRE - STAGE 2_22140\02 DRAWINGS\01 ENG\P24-447-01-3000-DR_STORMWATER LAYOUT PLAN.DWG



LEGEND

- STAGE 2 CATCHMENT EXTENT
- STAGE 1 CATCHMENT EXTENT
- EXISTING STORMWATER LINE AND PIT — A/1
- PROPOSED STORMWATER LINE AND PIT — A/1
- EXISTING SANITARY SEWER LINE AND PIT — 1/1
- PROPOSED SANITARY SEWER LINE AND PIT — 1/1
- SINGLE CATCHPIT — CP
- DOUBLE CATCHPIT — DCP
- OUTLET ROCK RIPRAP
- PROPOSED RAINGARDEN
- PROPOSED MSE WALL
- ROAD CATCHMENTS - 90% IMPERVIOUS
- LOT CATCHMENTS - 85% IMPERVIOUS

SCALEBAR (m) 0 30 60 150 — SCALE | 1:3000 @A3 | 1:1500 @A1|

REVISION DETAILS		INT	DATE	SURVEYED	
1	ISSUED FOR 99% SUBMISSION	MK	10/02/2025	DESIGNED	MK
2	ISSUED FOR FAST TRACK CONSENT	EW	21/02/2025	DRAWN	MK
3	ISSUED FOR FAST TRACK CONSENT	GW	21/02/2025	CHECKED	GW
				APPROVED	CD

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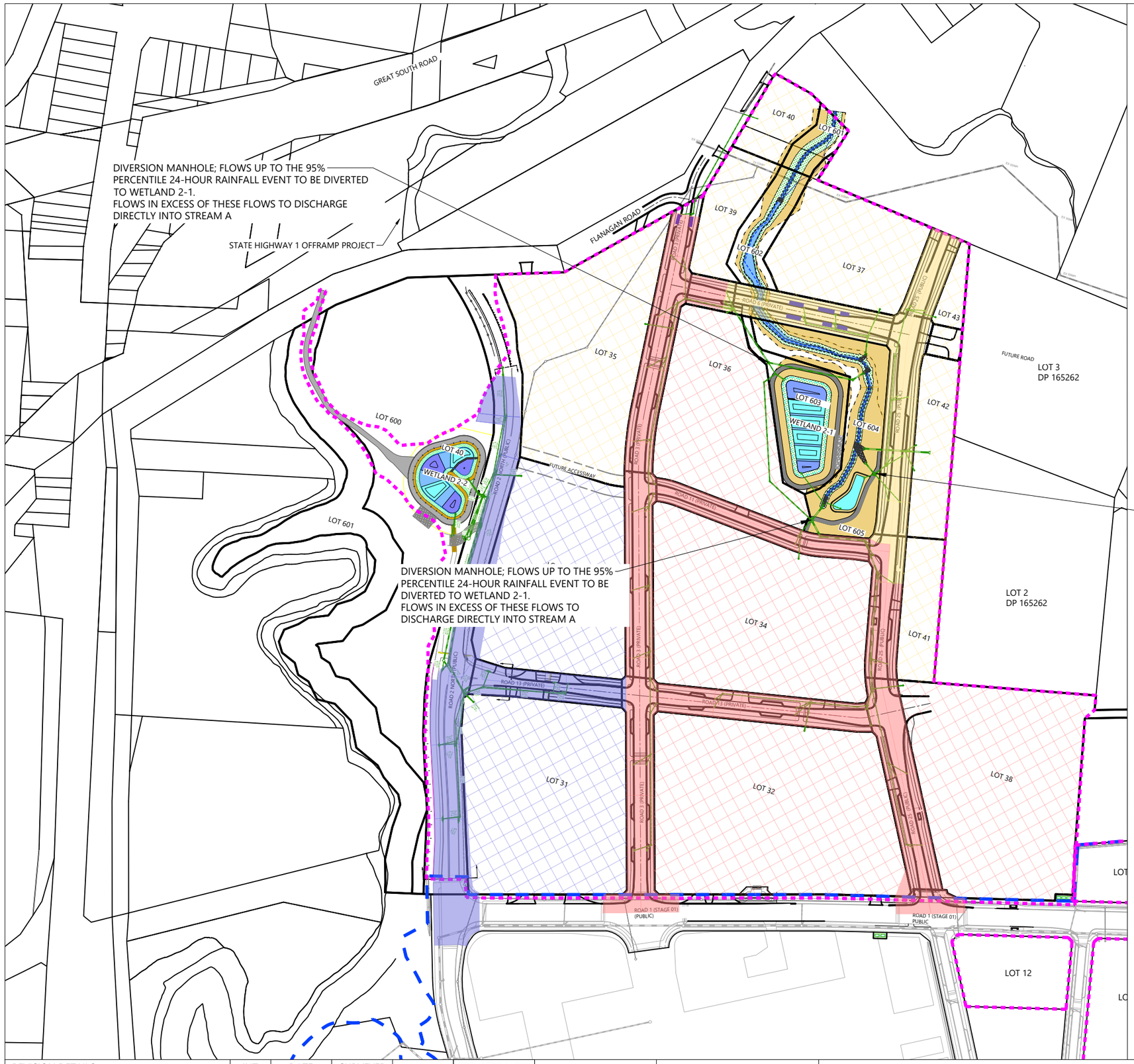
DRURY CENTRE-STAGE 2

STORMWATER TREATMENT CATCHMENT PLAN

STATUS	FOR FAST TRACK CONSENT	REV
SCALE	1:3000 @ A3	3
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P24-447-01-3102-DR	

Plot Date: 3:41:38 pm,21 March 2025, GLENNW

File C:\12DSYNERGY\DATA\WP-PEN-APP-01\P24-447 - DRURY CENTRE - STAGE 2_22140\02 DRAWINGS\01 ENG\[P24-447-01-3100-DR_STORMWATER CATCHMENT PLAN.DWG



RAINGARDEN CATCHMENT SUMMARY

ROADSIDE RAINGARDENS

RAINGARDEN	CATCHMENT IMPERV AREA %	TOTAL CONTRIBUTING CATCHMENT (m2)	CATCHMENT IMPERV AREA (m2)	PONDING FOOTPRINT (m2)	PONDING FOOTPRINT AS % OF IMPERVIOUS CATCHMENT
RG K1-02.1	90	316	284	14.5	5
RG K1-02.2	90	320	288	14.5	5
RG C1-03.1-1	90	412	371	18.5	5
RG C1-03.1-2	90	412	371	18.5	5
RG C1-03.2-1	90	612	550	28.5	5
RG C1-03.2-2	90	354	319	16.1	5
RG C1-04.1	90	605	545	28.2	5
RG C1-04.2	90	609	548	27.7	5
TOTAL		3640	3276	166.9	

LEGEND

- STAGE 2 CATCHMENT EXTENT
- STAGE 1 CATCHMENT EXTENT
- EXISTING STORMWATER LINE AND PIT — A/1
- PROPOSED STORMWATER LINE AND PIT — A/1
- EXISTING SANITARY SEWER LINE AND PIT — 1/1
- PROPOSED SANITARY SEWER LINE AND PIT — 1/1
- SINGLE CATCHPIT — CP
- DOUBLE CATCHPIT — DCP
- OUTLET ROCK RIPRAP
- PROPOSED RAINGARDEN
- PROPOSED MSE WALL
- TREATMENT AND DETENTION BY WETLAND 2-2 - 1.2145 ha
- ONSITE RETENTION REQUIRED - 3.1088 ha
- TREATMENT AND DETENTION BY WETLAND 2-1 -2.4407 ha
- ONSITE RETENTION REQUIRED - 6.8943 ha
- TREATMENT AND DETENTION BY RAINGARDENS -0.8419 ha
- ONSITE TREATMENT, DETENTION AND RETENTION REQUIRED - 3.7532 ha

SCALEBAR (m) 0 30 60 150

SCALE | 1:3000 @A3 | 1:1500 @A1|

REVISION DETAILS		INT	DATE	SURVEYED	
1	ISSUED FOR 99% SUBMISSION	MK	10/02/2025	DESIGNED	MK
2	ISSUED FOR FAST TRACK CONSENT	EW	21/02/2025	DRAWN	MK
3	ISSUED FOR FAST TRACK CONSENT	GW	21/03/2025	CHECKED	GW
				APPROVED	CD

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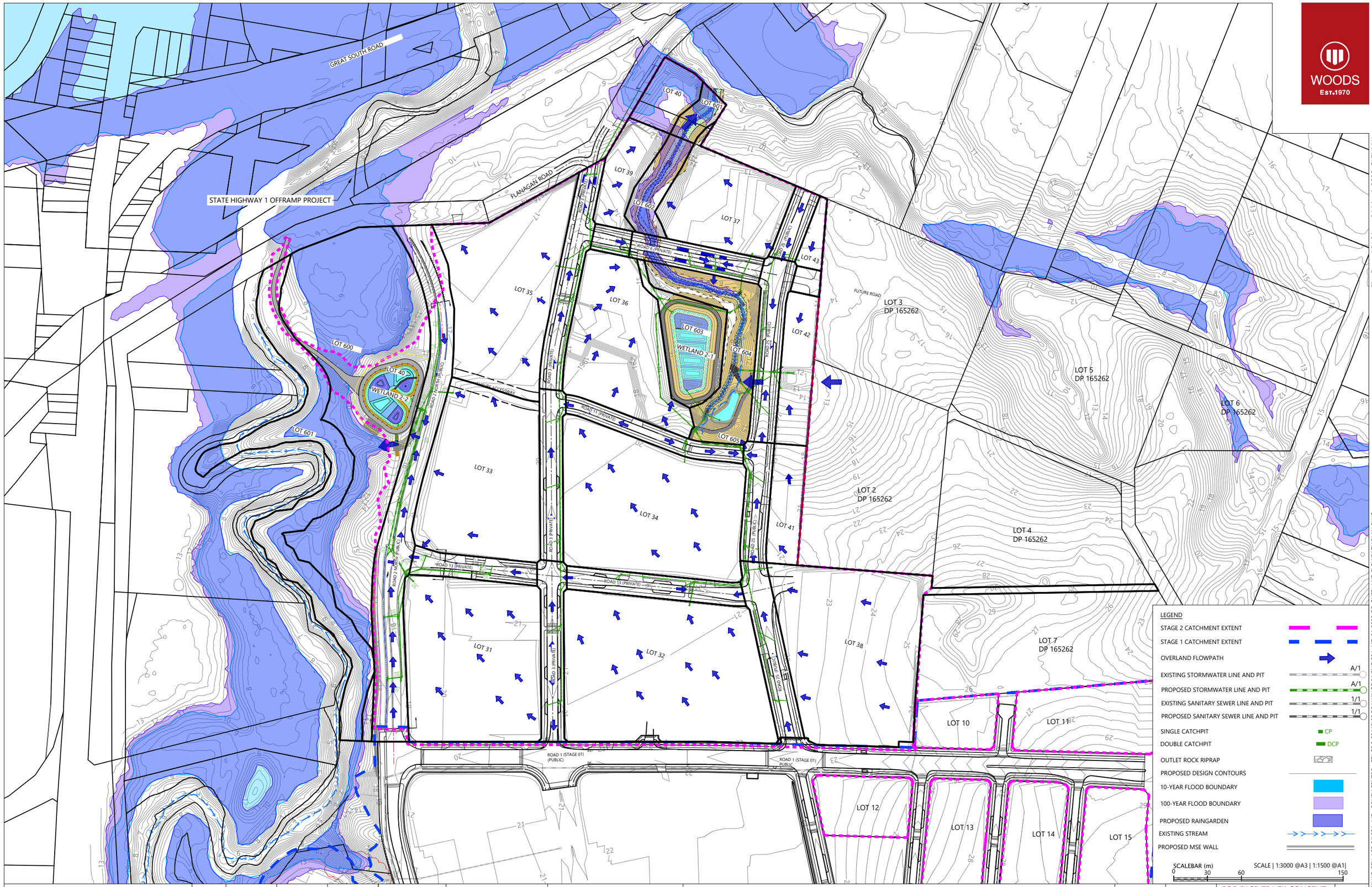
DRURY CENTRE-STAGE 2

STORMWATER TREATMENT CATCHMENT PLAN

STATUS	FOR FAST TRACK CONSENT
SCALE	1:3000 @ A3
COUNCIL	AUCKLAND COUNCIL
DWG NO	P24-447-01-3103-DR
REV	3

Plot Date: 3:41:39 pm,21 March 2025, GLENNW

File: C:\12DSYNERGY\DATA\WP-PEN-APP-01\P24-447 - DRURY CENTRE - STAGE 2_22140\02 DRAWINGS\01 ENG\[P24-447-01-3100-DR_STORMWATER CATCHMENT PLAN.DWG



REVISION DETAILS		INT	DATE	SURVEYED	
2	90% DESIGN - REV 1	MK	02/12/2024	DESIGNED	MK
3	ISSUED FOR 99% SUBMISSION	MF-E	10/02/2025	DRAWN	MK
4	ISSUED FOR FAST TRACK CONSENT	EW	21/02/2025	CHECKED	GW
5	ISSUED FOR FAST TRACK CONSENT	EW	21/03/2025	APPROVED	CD

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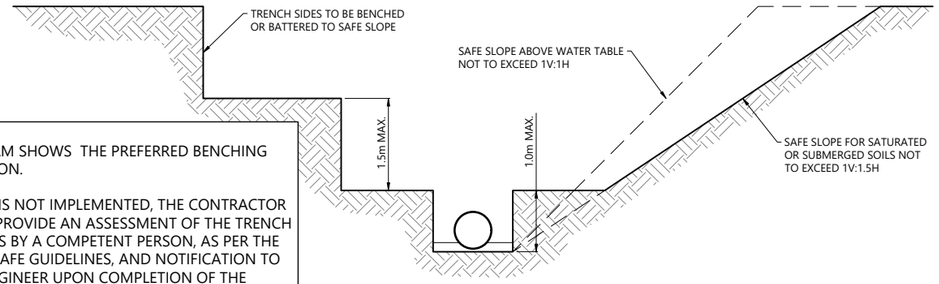
DRURY CENTRE-STAGE 2

PROPOSED OVERLAND FLOWPATH PLAN

STATUS	FOR FASR TRACK CONSENT
SCALE	1:3000 @ A3
COUNCIL	AUCKLAND COUNCIL
DWG NO	P24-447-01-3200-DR
REV	5

Plot Date: 4:01:01 pm,21 March 2025, GLENNW

File: C:\12DSYNERGY\DATA\WP-PEN-APP-01\P24-447 - DRURY CENTRE - STAGE 2_221402\02 DRAWINGS\01 ENG\P24-447-01-3200-DR_OVERLAND FLOWPATH PLAN.DWG



NOTE:
DIAGRAM SHOWS THE PREFERRED BENCHING SOLUTION.

IF THIS IS NOT IMPLEMENTED, THE CONTRACTOR SHALL PROVIDE AN ASSESSMENT OF THE TRENCH BATTERS BY A COMPETENT PERSON, AS PER THE WORKSAFE GUIDELINES, AND NOTIFICATION TO THE ENGINEER UPON COMPLETION OF THE ASSESSMENT.

EXCAVATION FACES BENCHED AND BATTERED TO A SAFE SLOPE

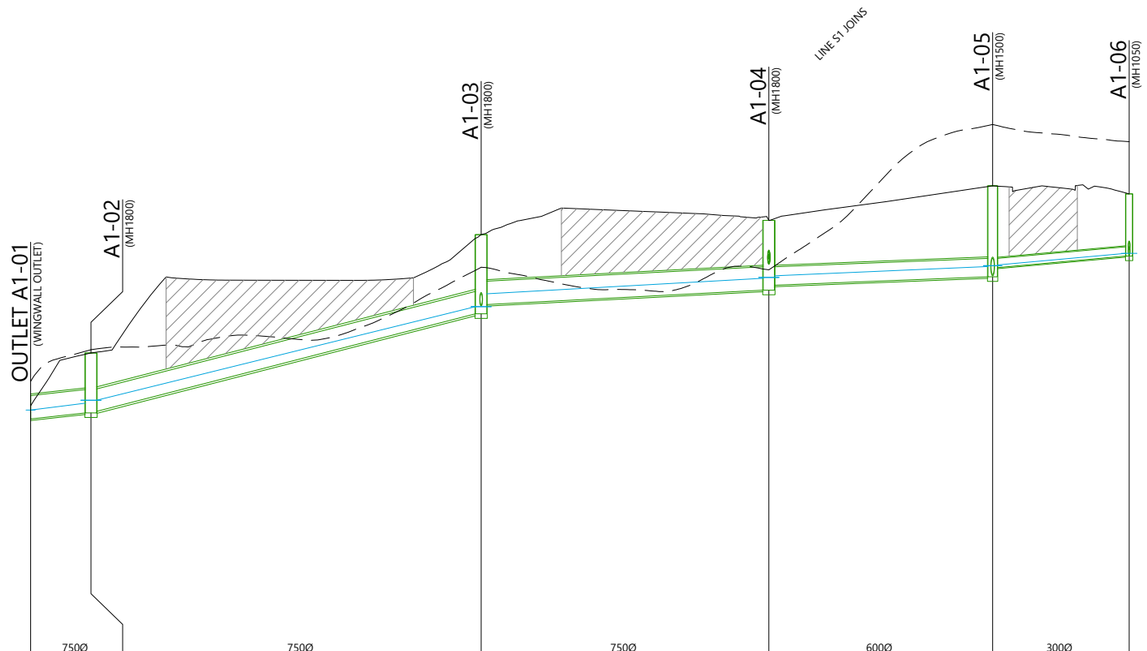
NOT TO SCALE

NOTES

1. PIPE LENGTHS MEASURED FROM MANHOLE CENTRE TO MANHOLE CENTRE.
2. VERTICAL CLEARANCES BETWEEN STORMWATER AND WASTEWATER SERVICES TO COMLPY WITH WATERCARE CODE OF PRACTICE TABLE 5.6.
3. VERTICAL CLEARANCES BETWEEN 500mm AND 300mm TO UTILISE HARD FILL BACKFILL BETWEEN CLASH.
4. IN ALL CASES, PIPES CLASHES SHOULD NOT CONCIDE WITH STORMWATER RCRRJ PIPE SOCKET ENDS.
5. ALL PIPES STEEPER THAN 10% GRADE TO BE INSTALLED WITH CONCRETE BEDDING PER THE STORMWATER COP.
6. NETWORK MODELLED TO TP108 2.1CC.

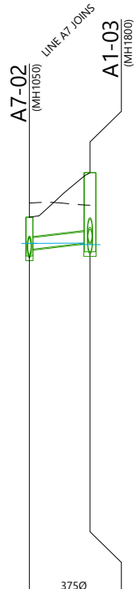
LEGEND

- PROPOSED HARDFILL BACKFILL
- PROPOSED FINISHED SURFACE
- DEPTH OF FLOW (HYDRAULIC GRADELINE)
- EXISTING GROUND



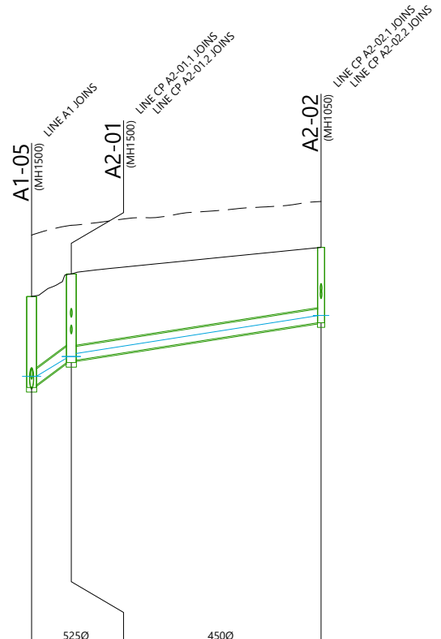
PIPE DIAMETER		750Ø	750Ø	750Ø	600Ø	300Ø
PIPE TYPE		RCRRJ CLASS 2	RCRRJ CLASS 4	RCRRJ CLASS 2	RCRRJ CLASS 2	RCRRJ CLASS 4
PIPE GRADE		2.00%	5.00%	1.00%	0.75%	1.70%
DATUM RL=		-2.00				
DEPTH TO INVERT	0.76	0.76 1.95	1.90 2.58	2.28 2.28	2.11 2.97	2.67 2.03
INVERT LEVEL	7.70	7.70 7.90	7.95 11.13	11.43 11.90	12.06 12.33	12.63 13.01
MANHOLE LID LEVEL		8.46 9.85	13.71	14.17	15.30	15.04
HYDRAULIC PARAMETERS		Q 506.00 l/s Q/Qmax 31 % V 2.47 m/s	Q 507.00 l/s Q/Qmax 22 % V 3.26 m/s	Q 507.00 l/s Q/Qmax 44 % V 2.20 m/s	Q 275.00 l/s Q/Qmax 52 % V 1.69 m/s	Q 22.00 l/s Q/Qmax 17 % V 1.31 m/s
CHAINAGE/ LENGTH	0	9.84	9.84 63.64	73.48 46.93	120.41 36.5	156.9 22.27 179.17

A1



PIPE DIAMETER		375Ø	
PIPE TYPE		RCRRJ CLASS 4	
PIPE GRADE		2.01%	
DATUM RL=		-2.00	
DEPTH TO INVERT	1.27	1.04	2.30 2.58
INVERT LEVEL	10.99	11.21	11.41 11.13
MANHOLE LID LEVEL		12.26	13.71
HYDRAULIC PARAMETERS		Q 0.00 l/s Q/Qmax 0 % V 0.00 m/s	
CHAINAGE/ LENGTH	0	9.89	9.89

A1-03 TO A7-02



PIPE DIAMETER		525Ø	450Ø
PIPE TYPE		RCRRJ CLASS 2	RCRRJ CLASS 2
PIPE GRADE		11.41%	3.00%
DATUM RL=		2.00	
DEPTH TO INVERT	2.97	2.89 2.89	2.81 2.46
INVERT LEVEL	12.33	12.41 13.15	13.22 14.44
MANHOLE LID LEVEL		15.30 16.03	16.90
HYDRAULIC PARAMETERS		Q 253.00 l/s Q/Qmax 17 % V 3.25 m/s	Q 235.00 l/s Q/Qmax 48 % V 2.92 m/s
CHAINAGE/ LENGTH	-7.72	6.47	-1.24 40.74 39.5

A2

REVISION DETAILS		INT	DATE	SURVEYED	
1	FOR DISCUSSION	MK	22/01/2025	DESIGNED	MK
2	FOR THE 99% SUBMISSION	MK	10/02/2025	DRAWN	MK
3	FOR FAST TRACK CONSENT	EW	21/02/2025	CHECKED	GW
				APPROVED	CD

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

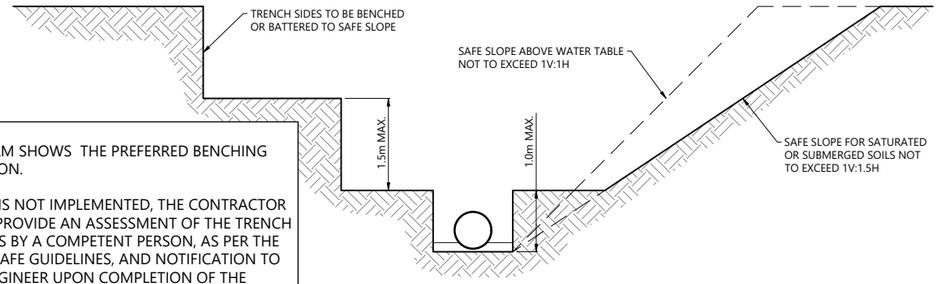
DRURY CENTRE-STAGE 2

STORMWATER LONGSECTION (SHEET 1 OF 19)

STATUS	FOR FAST TRACK CONSENT	REV
SCALE	H 1:1000 @ A3 V 1:200 @ A3	3
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P24-447-01-3500-DR	

Plot Date: 11:44:38 am,21 February 2025, ELLAWA

File: C:\12DS\DATA\WP-AKL-APP-02\P24-447 - DRURY CENTRE - STAGE 2_22140\02 DRAWINGS\01 ENG\P24-447-01-3500-DR_STORMWATER LONGSECTION.DWG



NOTE:
DIAGRAM SHOWS THE PREFERRED BENCHING SOLUTION.

IF THIS IS NOT IMPLEMENTED, THE CONTRACTOR SHALL PROVIDE AN ASSESSMENT OF THE TRENCH BATTERS BY A COMPETENT PERSON, AS PER THE WORKSAFE GUIDELINES, AND NOTIFICATION TO THE ENGINEER UPON COMPLETION OF THE ASSESSMENT.

EXCAVATION FACES BENCHED AND BATTERED TO A SAFE SLOPE

NOT TO SCALE

NOTES

1. PIPE LENGTHS MEASURED FROM MANHOLE CENTRE TO MANHOLE CENTRE.
2. VERTICAL CLEARANCES BETWEEN STORMWATER AND WASTEWATER SERVICES TO COMLPY WITH WATERCARE CODE OF PRACTICE TABLE 5.6.
3. VERTICAL CLEARANCES BETWEEN 500mm AND 300mm TO UTILISE HARD FILL BACKFILL BETWEEN CLASH.
4. IN ALL CASES, PIPES CLASHES SHOULD NOT CONCIDE WITH STORMWATER RCRRJ PIPE SOCKET ENDS.
5. ALL PIPES STEEPER THAN 10% GRADE TO BE INSTALLED WITH CONCRETE BEDDING PER THE STORMWATER COP.
6. NETWORK MODELLED TO TP108 2.1CC.

LEGEND

- PROPOSED HARDFILL BACKFILL
- PROPOSED FINISHED SURFACE
- DEPTH OF FLOW (HYDRAULIC GRADELINE)
- EXISTING GROUND

WOODS Est.1970

PIPE DIAMETER		450Ø		450Ø	450Ø	450Ø	375Ø	375Ø	375Ø	300Ø	300Ø
PIPE TYPE		RCRRJ CLASS 2		RCRRJ CLASS 2	RCRRJ CLASS 4	RCRRJ CLASS 2	RCRRJ CLASS 2	RCRRJ CLASS 2	RCRRJ CLASS 4	RCRRJ CLASS 2	RCRRJ CLASS 2
PIPE GRADE		1.50%		1.50%	1.20%	1.00%	1.25%	1.25%	1.00%	1.10%	1.10%
DATUM RL=	9.00										
DEPTH TO INVERT	2.46	2.41	2.73	2.68	2.81	2.76	2.97	2.92	3.04	2.99	2.87	2.82	2.77	2.72	2.71	2.64	2.61	2.56	1.75
INVERT LEVEL	14.44	14.49	15.42	15.47	15.83	15.88	16.19	16.24	16.82	16.87	17.48	17.53	17.78	17.83	18.09	18.16	18.50	18.55	19.28
MANHOLE LID LEVEL	16.90		18.15		18.64		19.16		19.86		20.35		20.55		20.80		21.11		21.04
HYDRAULIC PARAMETERS	Q 210.00 l/s Q/Qmax 60 % V 2.16 m/s		Q 186.00 l/s Q/Qmax 53 % V 2.09 m/s		Q 179.00 l/s Q/Qmax 57 % V 1.80 m/s		Q 146.00 l/s Q/Qmax 51 % V 1.66 m/s		Q 122.00 l/s Q/Qmax 62 % V 1.74 m/s		Q 87.00 l/s Q/Qmax 44 % V 1.57 m/s		Q 76.00 l/s Q/Qmax 43 % V 1.45 m/s		Q 66.00 l/s Q/Qmax 65 % V 1.41 m/s		Q 53.00 l/s Q/Qmax 52 % V 1.39 m/s	
CHAINAGE/ LENGTH	39.5	61.71	101.2	23.93	125.14	25.64	150.78	58.33	209.11	48.97	258.07	19.88	277.96	25.87	303.83	30.22	334.05	67.09	401.14

A2

REVISION DETAILS		INT	DATE	SURVEYED	
1	FOR DISCUSSION	MK	22/01/2025	DESIGNED	MK
2	FOR THE 99% SUBMISSION	MK	10/02/2025	DRAWN	MK
3	FOR FAST TRACK CONSENT	EW	21/02/2025	CHECKED	GW
				APPROVED	CD

BUILDING B, LEVEL 1
8 NUGENT ST, GRAFTON,
AUCKLAND 1023
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Kiwi Property

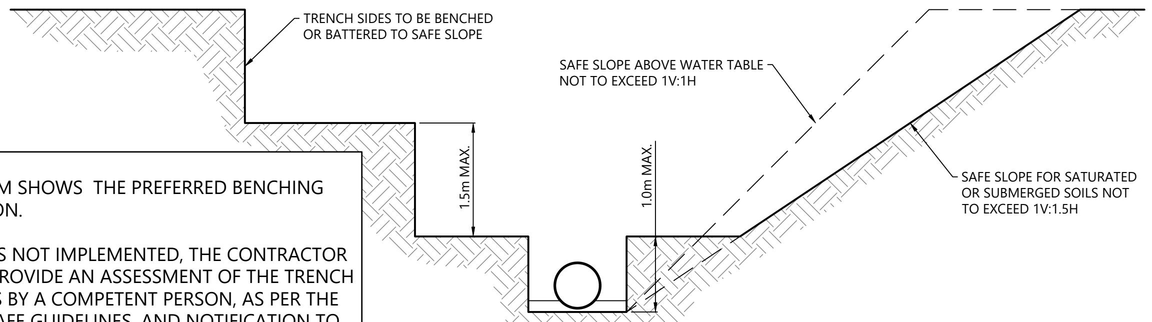
DRURY CENTRE-STAGE 2

STORMWATER LONGSECTION (SHEET 2 OF 19)

STATUS	FOR FAST TRACK CONSENT	REV
SCALE	H 1:1000 @ A3 V 1:200 @ A3	3
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P24-447-01-3501-DR	

Plot Date: 11:44:39 am,21 February 2025, ELLAWA

File: C:\12DS\DATA\WP-AKL-APP-02\P24-447 - DRURY CENTRE - STAGE 2_22140\02 DRAWINGS\01 ENG\P24-447-01-3500-DR_STORMWATER LONGSECTION.DWG



NOTE:
DIAGRAM SHOWS THE PREFERRED BENCHING SOLUTION.

IF THIS IS NOT IMPLEMENTED, THE CONTRACTOR SHALL PROVIDE AN ASSESSMENT OF THE TRENCH BATTERS BY A COMPETENT PERSON, AS PER THE WORKSAFE GUIDELINES, AND NOTIFICATION TO THE ENGINEER UPON COMPLETION OF THE ASSESSMENT.

EXCAVATION FACES BENCHED AND BATTERED TO A SAFE SLOPE

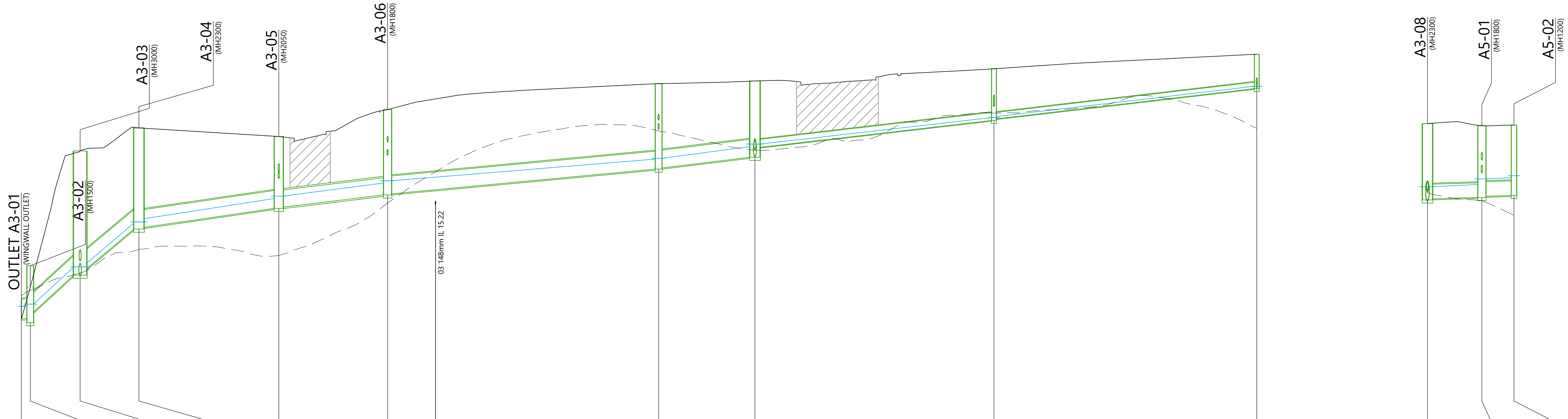
NOT TO SCALE

NOTES

1. PIPE LENGTHS MEASURED FROM MANHOLE CENTRE TO MANHOLE CENTRE.
2. VERTICAL CLEARANCES BETWEEN STORMWATER AND WASTEWATER SERVICES TO COMLPY WITH WATERCARE CODE OF PRACTICE TABLE 5.6.
3. VERTICAL CLEARANCES BETWEEN 500mm AND 300mm TO UTILISE HARD FILL BACKFILL BETWEEN CLASH.
4. IN ALL CASES, PIPES CLASHES SHOULD NOT CONCIDE WITH STORMWATER RCRRJ PIPE SOCKET ENDS.
5. ALL PIPES STEEPER THAN 10% GRADE TO BE INSTALLED WITH CONCRETE BEDDING PER THE STORMWATER COP.
6. NETWORK MODELLED TO TP108 2.1CC.

LEGEND

(hatched box)	PROPOSED HARDFILL BACKFILL
(solid line)	PROPOSED FINISHED SURFACE
(blue line)	DEPTH OF FLOW (HYDRAULIC GRADELINE)
(dashed line)	EXISTING GROUND



PIPE DIAMETER	900Ø	900Ø	900Ø	825Ø	825Ø	825Ø		825Ø	375Ø	300Ø	
PIPE TYPE	RCRRJ CLASS 2	RCRRJ CLASS 2	RCRRJ CLASS 2	RCRRJ CLASS 2	RCRRJ CLASS 4	RCRRJ CLASS 2		RCRRJ CLASS 2	RCRRJ CLASS 4	RCRRJ CLASS 2	
PIPE GRADE	1.00%	14.81%	13.51%	2.73%	2.24%	1.83%		2.24%	2.26%	2.30%	
DATUM RL=	2.00										
DEPTH TO INVERT (0.91)	0.91 1.47	1.67 1.17 5.82	5.52 4.74	4.66 3.37	3.31 4.00	3.95		4.00 3.95 3.57	3.11 2.42	2.35 1.61	
INVERT LEVEL (9.85)	9.85 9.87	9.67 10.17 11.90	12.20 14.06	14.14 15.03	15.09 15.66	15.71	15.9 16.87	16.92 17.43	17.89 19.15	19.23 20.65	
MANHOLE LID LEVEL	10.76	11.34	17.72	18.80	18.40	19.66		20.87	21.00	21.58	22.26
HYDRAULIC PARAMETERS	Q 1410.00 l/s Q/Qmax 75 % V 2.92 m/s	Q 1410.00 l/s Q/Qmax 19 % V 6.57 m/s	Q 1169.00 l/s Q/Qmax 17 % V 6.42 m/s	Q 1169.00 l/s Q/Qmax 47 % V 3.49 m/s	Q 1140.00 l/s Q/Qmax 56 % V 3.12 m/s		Q 1110.00 l/s Q/Qmax 55 % V 3.05 m/s	Q 1065.00 l/s Q/Qmax 48 % V 3.05 m/s	Q 68.00 l/s Q/Qmax 26 % V 1.93 m/s	Q 39.00 l/s Q/Qmax 27 % V 1.72 m/s	
CHAINAGE/ LENGTH	-25.75 2.09	-23.66 11.68	-11.98 13.77	1.79 32.79	34.57 25.5	60.07	71.3 63.51	123.58 22.56	146.15 56.02	202.17 61.58	263.75

A3

PIPE DIAMETER	675Ø	675Ø	
PIPE TYPE	RCRRJ CLASS 2	RCRRJ CLASS 2	
PIPE GRADE	0.50%	0.50%	
DATUM RL=	4.00		
DEPTH TO INVERT (3.57)	3.52 3.36	3.31 3.30	
INVERT LEVEL (17.43)	17.48 17.54	17.60 17.63	
MANHOLE LID LEVEL	21.00	20.90	20.93
HYDRAULIC PARAMETERS	Q 576.00 l/s Q/Qmax 93 % V 1.63 m/s	Q 548.00 l/s Q/Qmax 88 % V 1.48 m/s	
CHAINAGE/ LENGTH	0 12.75	12.75 7.52	20.28

A5

REVISION DETAILS		INT	DATE		
				SURVEYED	
1	FOR DISCUSSION	MK	22/01/2025	DESIGNED	MK
2	FOR THE 99% SUBMISSION	MK	10/02/2025	DRAWN	MK
3	FOR FAST TRACK CONSENT	EW	21/02/2025	CHECKED	GW
				APPROVED	CD

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

Kiwi Property

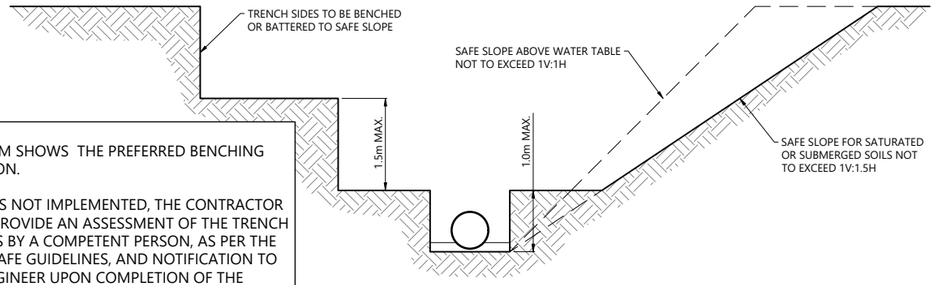
DRURY CENTRE-STAGE 2

STORMWATER LONGSECTION (SHEET 3 OF 19)

STATUS	FOR FAST TRACK CONSENT	REV
SCALE	H 1:1000 @ A3 V 1:200 @ A3	3
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P24-447-01-3502-DR	

WOODS EST.1970

Plot Date: 11:44:39 am,21 February 2025, ELLAWA
File: C:\12DS\DATA\WP-AKL-APP-02\P24-447 - DRURY CENTRE - STAGE 2_22140\02 DRAWINGS\01 ENG\P24-447-01-3500-DR_STORMWATER LONGSECTION.DWG



NOTE:
DIAGRAM SHOWS THE PREFERRED BENCHING SOLUTION.

IF THIS IS NOT IMPLEMENTED, THE CONTRACTOR SHALL PROVIDE AN ASSESSMENT OF THE TRENCH BATTERS BY A COMPETENT PERSON, AS PER THE WORKSAFE GUIDELINES, AND NOTIFICATION TO THE ENGINEER UPON COMPLETION OF THE ASSESSMENT.

EXCAVATION FACES BENCHED AND BATTERED TO A SAFE SLOPE

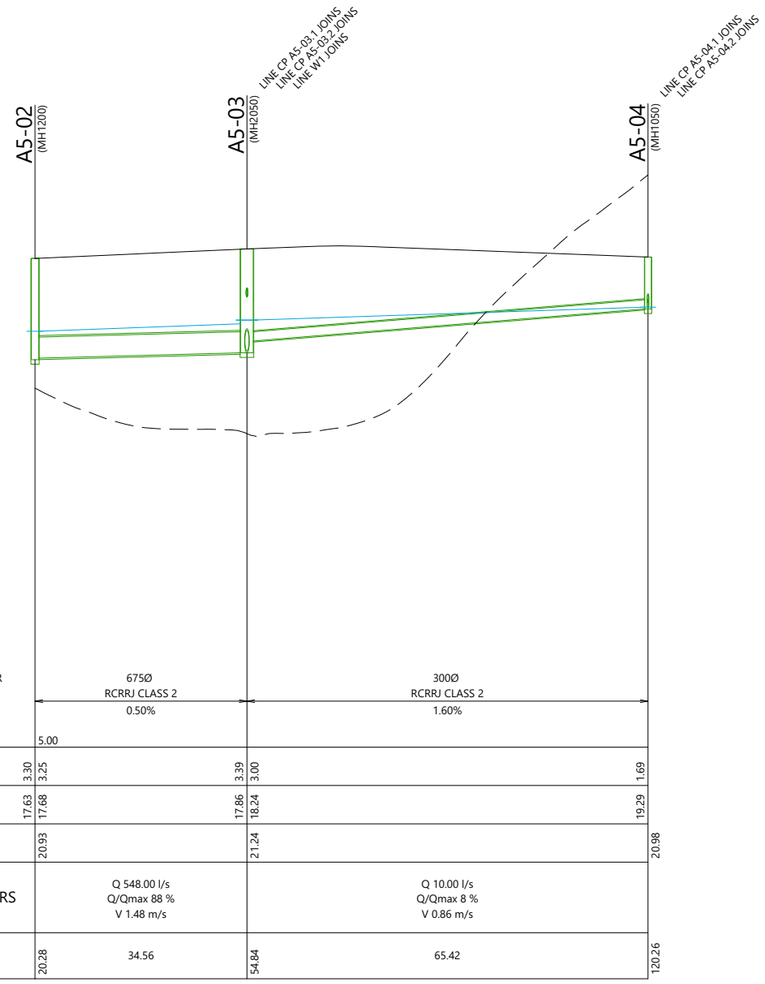
NOT TO SCALE

NOTES

1. PIPE LENGTHS MEASURED FROM MANHOLE CENTRE TO MANHOLE CENTRE.
2. VERTICAL CLEARANCES BETWEEN STORMWATER AND WASTEWATER SERVICES TO COMLPY WITH WATERCARE CODE OF PRACTICE TABLE 5.6.
3. VERTICAL CLEARANCES BETWEEN 500mm AND 300mm TO UTILISE HARD FILL BACKFILL BETWEEN CLASH.
4. IN ALL CASES, PIPES CLASHES SHOULD NOT CONCIDE WITH STORMWATER RCRRJ PIPE SOCKET ENDS.
5. ALL PIPES STEEPER THAN 10% GRADE TO BE INSTALLED WITH CONCRETE BEDDING PER THE STORMWATER COP.
6. NETWORK MODELLED TO TP108 2.1CC.

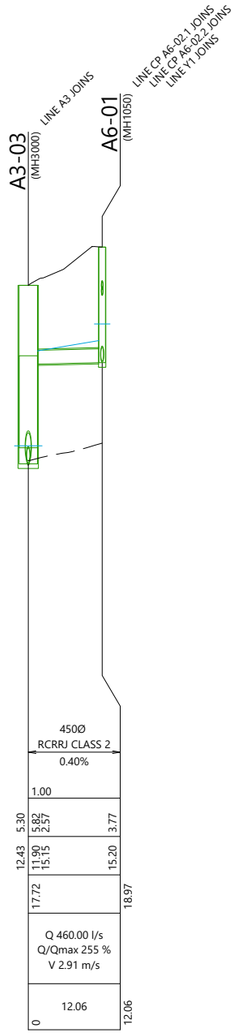
LEGEND

- PROPOSED HARDFILL BACKFILL
- PROPOSED FINISHED SURFACE
- DEPTH OF FLOW (HYDRAULIC GRADELINE)
- EXISTING GROUND



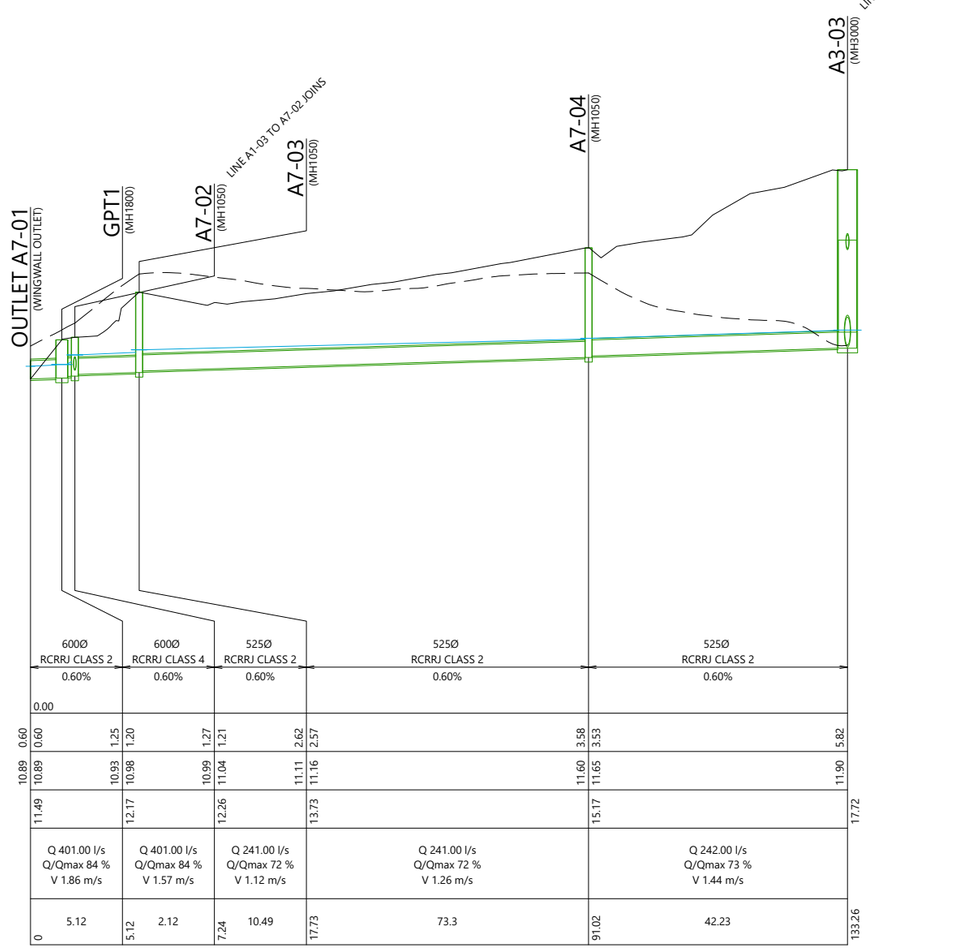
PIPE DIAMETER	675Ø	300Ø	
PIPE TYPE	RCRRJ CLASS 2	RCRRJ CLASS 2	
PIPE GRADE	0.50%	1.60%	
DATUM RL=	5.00		
DEPTH TO INVERT	3.30 / 3.25	3.39 / 3.00	1.69
INVERT LEVEL	17.63 / 17.68	17.86 / 18.24	19.29
MANHOLE LID LEVEL	20.93	21.24	20.98
HYDRAULIC PARAMETERS	Q 548.00 l/s Q/Qmax 88 % V 1.48 m/s	Q 10.00 l/s Q/Qmax 8 % V 0.86 m/s	
CHAINAGE/ LENGTH	20.28	34.56 / 54.84	65.42 / 120.26

A5



PIPE DIAMETER	450Ø	
PIPE TYPE	RCRRJ CLASS 2	
PIPE GRADE	0.40%	
DATUM RL=	1.00	
DEPTH TO INVERT	5.30 / 5.82 / 5.57	3.77
INVERT LEVEL	12.43 / 11.90 / 11.15	15.20
MANHOLE LID LEVEL	17.72	18.97
HYDRAULIC PARAMETERS	Q 460.00 l/s Q/Qmax 255 % V 2.91 m/s	
CHAINAGE/ LENGTH	0	12.06 / 12.06

A6-02 TO A3-04



PIPE DIAMETER	600Ø	600Ø	525Ø	525Ø	525Ø
PIPE TYPE	RCRRJ CLASS 2	RCRRJ CLASS 4	RCRRJ CLASS 2	RCRRJ CLASS 2	RCRRJ CLASS 2
PIPE GRADE	0.60%	0.60%	0.60%	0.60%	0.60%
DATUM RL=	0.00				
DEPTH TO INVERT	0.60 / 0.60	1.25 / 1.20	1.27 / 1.21	2.62 / 2.57	3.58 / 3.53 / 5.82
INVERT LEVEL	10.89 / 10.89	10.93 / 10.98	10.99 / 11.04	11.11 / 11.16	11.60 / 11.65 / 11.90
MANHOLE LID LEVEL	11.49	12.17	12.26	13.73	15.17 / 17.72
HYDRAULIC PARAMETERS	Q 401.00 l/s Q/Qmax 84 % V 1.86 m/s	Q 401.00 l/s Q/Qmax 84 % V 1.57 m/s	Q 241.00 l/s Q/Qmax 72 % V 1.12 m/s	Q 241.00 l/s Q/Qmax 72 % V 1.26 m/s	Q 242.00 l/s Q/Qmax 73 % V 1.44 m/s
CHAINAGE/ LENGTH	0	5.12 / 5.12	2.12 / 7.24	10.49 / 17.73	73.3 / 91.02 / 133.26

A7

REVISION DETAILS		INT	DATE	SURVEYED	
1	FOR DISCUSSION	MK	22/01/2025	DESIGNED	MK
2	FOR THE 99% SUBMISSION	MK	10/02/2025	DRAWN	MK
3	FOR FAST TRACK CONSENT	EW	21/02/2025	CHECKED	GW
				APPROVED	CD

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

Kiwi Property

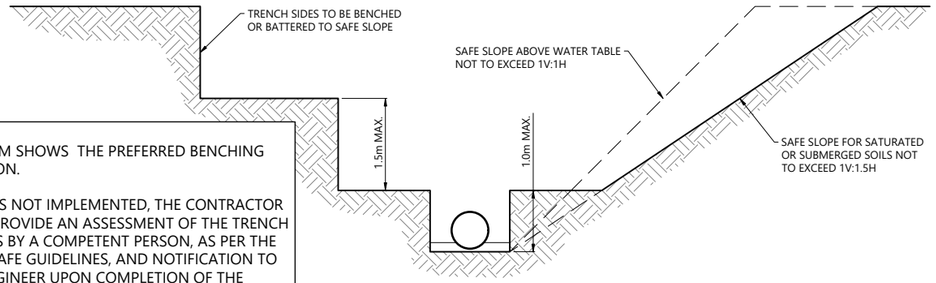
DRURY CENTRE-STAGE 2

STORMWATER LONGSECTION (SHEET 4 OF 19)

STATUS	FOR FAST TRACK CONSENT
SCALE	H 1:1000 @ A3 V 1:200 @ A3
COUNCIL	AUCKLAND COUNCIL
DWG NO	P24-447-01-3503-DR
REV	3

Plot Date: 8:57:57 am,28 February 2025, ELLAWA

File: C:\12DS\DATA\WP-AKL-APP-02\P24-447 - DRURY CENTRE - STAGE 2_22140\02 DRAWINGS\01 ENG\P24-447-01-3500-DR_STORMWATER LONGSECTION.DWG



NOTE:
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EXCAVATION FACES BENCHED AND BATTERED TO A SAFE SLOPE

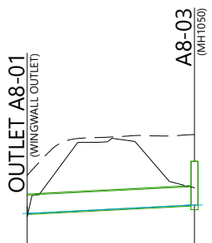
NOT TO SCALE

NOTES

1. PIPE LENGTHS MEASURED FROM MANHOLE CENTRE TO MANHOLE CENTRE.
2. VERTICAL CLEARANCES BETWEEN STORMWATER AND WASTEWATER SERVICES TO COMLPY WITH WATERCARE CODE OF PRACTICE TABLE 5.6.
3. VERTICAL CLEARANCES BETWEEN 500mm AND 300mm TO UTILISE HARD FILL BACKFILL BETWEEN CLASH.
4. IN ALL CASES, PIPES CLASHES SHOULD NOT CONCIDE WITH STORMWATER RCRRJ PIPE SOCKET ENDS.
5. ALL PIPES STEEPER THAN 10% GRADE TO BE INSTALLED WITH CONCRETE BEDDING PER THE STORMWATER COP.
6. NETWORK MODELLED TO TP108 2.1CC.

LEGEND

- PROPOSED HARDFILL BACKFILL
- PROPOSED FINISHED SURFACE
- DEPTH OF FLOW (HYDRAULIC GRADELINE)
- EXISTING GROUND



PIPE DIAMETER		600Ø
PIPE TYPE		RCRRJ CLASS 2
PIPE GRADE		1.00%
DATUM RL=		-3.00
DEPTH TO INVERT	0.22	0.22 1.43
INVERT LEVEL	9.85	9.85 10.12
MANHOLE LID LEVEL		10.07 11.55
HYDRAULIC PARAMETERS		Q 0.00 l/s Q/Qmax 0 % V 0.00 m/s
CHAINAGE/ LENGTH	0	27.29 27.29

A8

PIPE DIAMETER		450Ø	375Ø
PIPE TYPE		RCRRJ CLASS 2	RCRRJ CLASS 2
PIPE GRADE		9.34%	3.08%
DATUM RL=		-4.00	
DEPTH TO INVERT	0.45	0.45 3.31	3.71 3.24 1.73
INVERT LEVEL	8.30	8.30 9.50	9.10 9.57 10.38
MANHOLE LID LEVEL		8.75 12.81	12.10 12.62
HYDRAULIC PARAMETERS		Q 260.00 l/s Q/Qmax 30 % V 4.20 m/s	Q 70.00 l/s Q/Qmax 23 % V 2.15 m/s
CHAINAGE/ LENGTH	-8.3	12.85	4.55 26.04

PIPE DIAMETER	225Ø	
PIPE TYPE	RCRRJ CLASS 2	
PIPE GRADE	2.46%	
DATUM RL=		
DEPTH TO INVERT	1.58	1.54
INVERT LEVEL	10.53	11.08
MANHOLE LID LEVEL	12.10	12.62
HYDRAULIC PARAMETERS	Q 28.00 l/s Q/Qmax 40 % V 1.59 m/s	
CHAINAGE/ LENGTH	30.58	22.58 53.16

C1

PIPE DIAMETER		600Ø	1800Ø	600Ø
PIPE TYPE		RCRRJ CLASS 2	WEIR	RCRRJ CLASS 2
PIPE GRADE		16.53%	20.62%	0.40%
DATUM RL=		-3.00		
DEPTH TO INVERT	0.60	0.60 1.97	1.97 1.83	1.98 1.98 2.27
INVERT LEVEL	9.70	9.70 11.24	11.24 11.39	11.24 11.24 11.28
MANHOLE LID LEVEL		10.30 13.21		13.22 13.55
HYDRAULIC PARAMETERS		Q 135.00 l/s Q/Qmax 5 % V 4.69 m/s	Q 135.00 l/s Q/Qmax 0 % V 1.00 m/s	Q 121.00 l/s Q/Qmax 31 % V 1.12 m/s
CHAINAGE/ LENGTH	-181.46	9.29	-172.17 0.73	-171.44 10.85

PIPE DIAMETER	375Ø	300Ø	300Ø
PIPE TYPE	RCRRJ CLASS 2	RCRRJ CLASS 2	RCRRJ CLASS 4
PIPE GRADE	0.40%	0.40%	0.40%
DATUM RL=			
DEPTH TO INVERT	2.05 1.75	1.68 1.65	1.60 1.57
INVERT LEVEL	11.50 11.70	11.77 11.90	11.95 12.09
MANHOLE LID LEVEL	13.55 13.45		13.56 13.67
HYDRAULIC PARAMETERS	Q 81.00 l/s Q/Qmax 73 % V 1.10 m/s	Q 53.00 l/s Q/Qmax 87 % V 1.02 m/s	Q 53.00 l/s Q/Qmax 87 % V 0.94 m/s
CHAINAGE/ LENGTH	-160.59 47.97	-112.62 32.91	-79.71 35.44 -44.27

C2

REVISION DETAILS		INT	DATE	SURVEYED	
1	FOR DISCUSSION	MK	22/01/2025	DESIGNED	MK
2	FOR THE 99% SUBMISSION	MK	10/02/2025	DRAWN	MK
3	FOR FAST TRACK CONSENT	EW	21/02/2025	CHECKED	GW
				APPROVED	CD

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

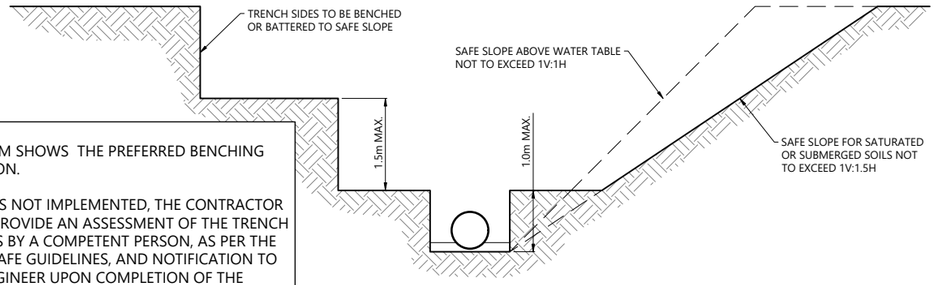
Kiwi Property

DRURY CENTRE-STAGE 2

STORMWATER LONGSECTION (SHEET 5 OF 19)

STATUS	FOR FAST TRACK CONSENT	REV
SCALE	H 1:1000 @ A3 V 1:200 @ A3	3
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P24-447-01-3504-DR	

Plot Date: 8:58:52 am,28 February 2025, ELLAWA
File: C:\12DS\DATA\WP-AKL-APP-02\P24-447 - DRURY CENTRE - STAGE 2_22140\02 DRAWINGS\01 ENG\P24-447-01-3500-DR_STORMWATER LONGSECTION.DWG



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EXCAVATION FACES BENCHED AND BATTERED TO A SAFE SLOPE

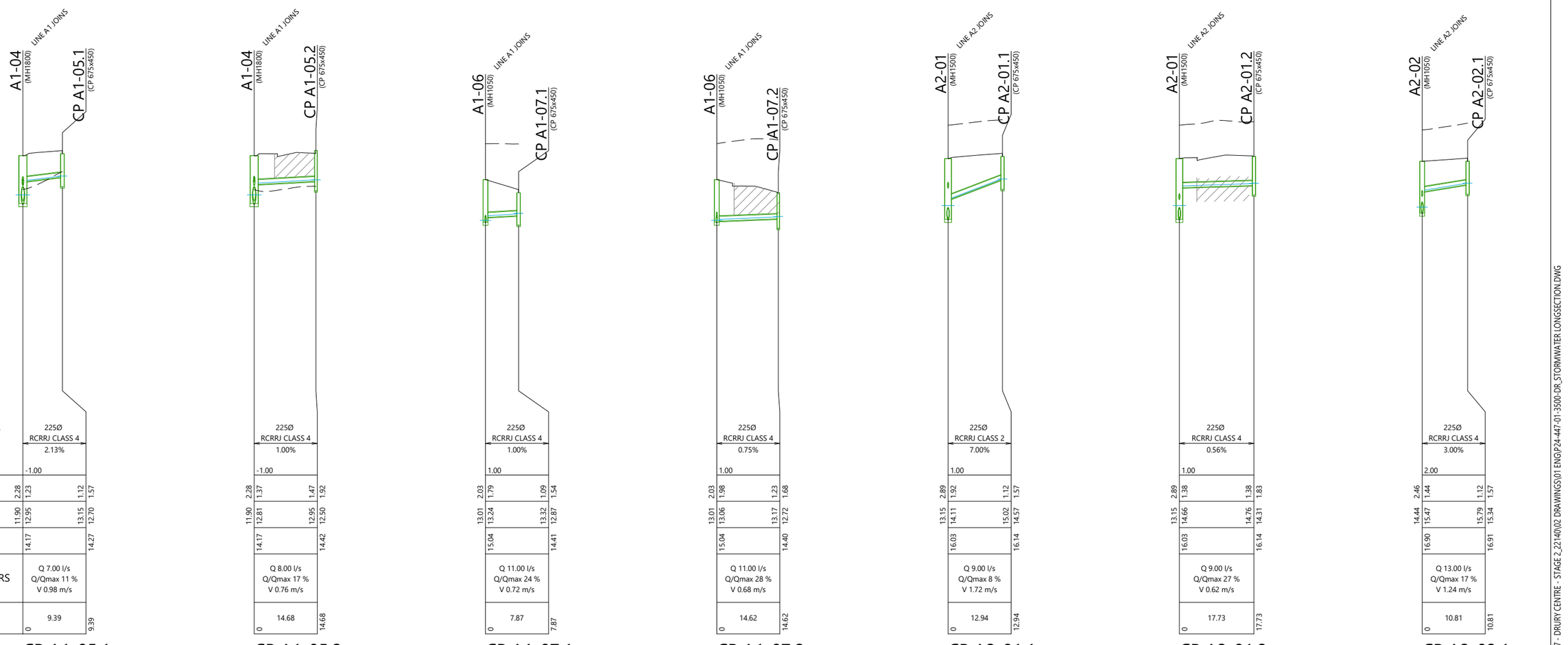
NOT TO SCALE

NOTES

1. PIPE LENGTHS MEASURED FROM MANHOLE CENTRE TO MANHOLE CENTRE.
2. VERTICAL CLEARANCES BETWEEN STORMWATER AND WASTEWATER SERVICES TO COMLPY WITH WATERCARE CODE OF PRACTICE TABLE 5.6.
3. VERTICAL CLEARANCES BETWEEN 500mm AND 300mm TO UTILISE HARD FILL BACKFILL BETWEEN CLASH.
4. IN ALL CASES, PIPES CLASHES SHOULD NOT CONCIDE WITH STORMWATER RCRRJ PIPE SOCKET ENDS.
5. ALL PIPES STEEPER THAN 10% GRADE TO BE INSTALLED WITH CONCRETE BEDDING PER THE STORMWATER COP.
6. NETWORK MODELLED TO TP108 2.1CC.

LEGEND

- PROPOSED HARDFILL BACKFILL
- PROPOSED FINISHED SURFACE
- DEPTH OF FLOW (HYDRAULIC GRADELINE)
- EXISTING GROUND



	CP A1-05.1	CP A1-05.2	CP A1-07.1	CP A1-07.2	CP A2-01.1	CP A2-01.2	CP A2-02.1
PIPE DIAMETER	225Ø	225Ø	225Ø	225Ø	225Ø	225Ø	225Ø
PIPE TYPE	RCRRJ CLASS 4	RCRRJ CLASS 4	RCRRJ CLASS 4	RCRRJ CLASS 4	RCRRJ CLASS 2	RCRRJ CLASS 4	RCRRJ CLASS 4
PIPE GRADE	2.13%	1.00%	1.00%	0.75%	7.00%	0.56%	3.00%
DATUM RL=	-1.00	-1.00	1.00	1.00	1.00	1.00	2.00
DEPTH TO INVERT	2.28 / 1.23 / 1.12 / 1.57	2.28 / 1.37 / 1.47 / 1.92	2.03 / 1.79 / 1.09 / 1.54	2.03 / 1.98 / 1.23 / 1.68	2.89 / 1.92 / 1.12 / 1.57	2.89 / 1.38 / 1.38 / 1.83	2.46 / 1.44 / 1.12 / 1.57
INVERT LEVEL	11.90 / 12.95 / 13.15 / 12.70	11.90 / 12.81 / 12.95 / 12.50	13.01 / 13.24 / 13.32 / 12.87	13.01 / 13.06 / 13.17 / 12.72	13.15 / 14.11 / 15.02 / 14.57	13.15 / 14.66 / 14.76 / 14.31	14.44 / 15.47 / 15.79 / 15.34
MANHOLE LID LEVEL	14.17 / 14.27	14.17 / 14.42	15.04 / 14.41	15.04 / 14.40	16.03 / 16.14	16.03 / 16.14	16.90 / 16.91
HYDRAULIC PARAMETERS	Q 7.00 l/s Q/Qmax 11 % V 0.98 m/s	Q 8.00 l/s Q/Qmax 17 % V 0.76 m/s	Q 11.00 l/s Q/Qmax 24 % V 0.72 m/s	Q 11.00 l/s Q/Qmax 28 % V 0.68 m/s	Q 9.00 l/s Q/Qmax 8 % V 1.72 m/s	Q 9.00 l/s Q/Qmax 27 % V 0.62 m/s	Q 13.00 l/s Q/Qmax 17 % V 1.24 m/s
CHAINAGE/ LENGTH	0 / 9.39 / 9.39	0 / 14.68 / 14.68	0 / 7.87 / 7.87	0 / 14.62 / 14.62	0 / 12.94 / 12.94	0 / 17.73 / 17.73	0 / 10.81 / 10.81

REVISION DETAILS		INT	DATE	SURVEYED	
1	FOR DISCUSSION	MK	22/01/2025	DESIGNED	MK
2	FOR THE 99% SUBMISSION	MK	10/02/2025	DRAWN	MK
3	FOR FAST TRACK CONSENT	EW	21/02/2025	CHECKED	GW
				APPROVED	CD

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

Kiwi Property

DRURY CENTRE-STAGE 2

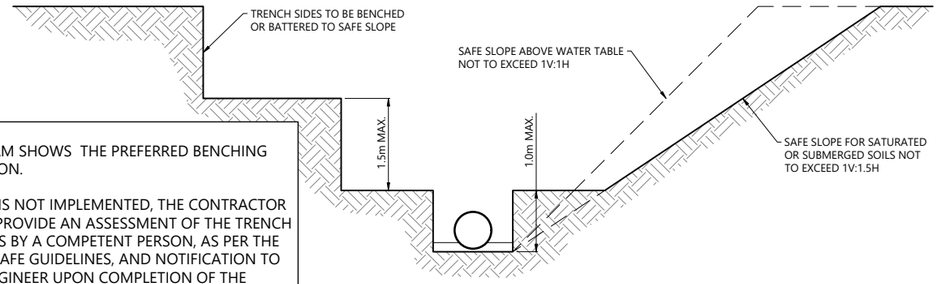
STORMWATER LONGSECTION (SHEET 6 OF 19)

STATUS	FOR FAST TRACK CONSENT	REV
SCALE	H 1:1000 @ A3 V 1:200 @ A3	3
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P24-447-01-3505-DR	

WOODS Est.1970

Plot Date: 11:44:40 am,21 February 2025, ELLAWA

File: C:\12DS\DATA\WP-AKL-APP-02\P24-447 - DRURY CENTRE - STAGE 2_22140\02 DRAWINGS\01 ENG\P24-447-01-3500-DR_STORMWATER LONGSECTION.DWG



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EXCAVATION FACES BENCHED AND BATTERED TO A SAFE SLOPE

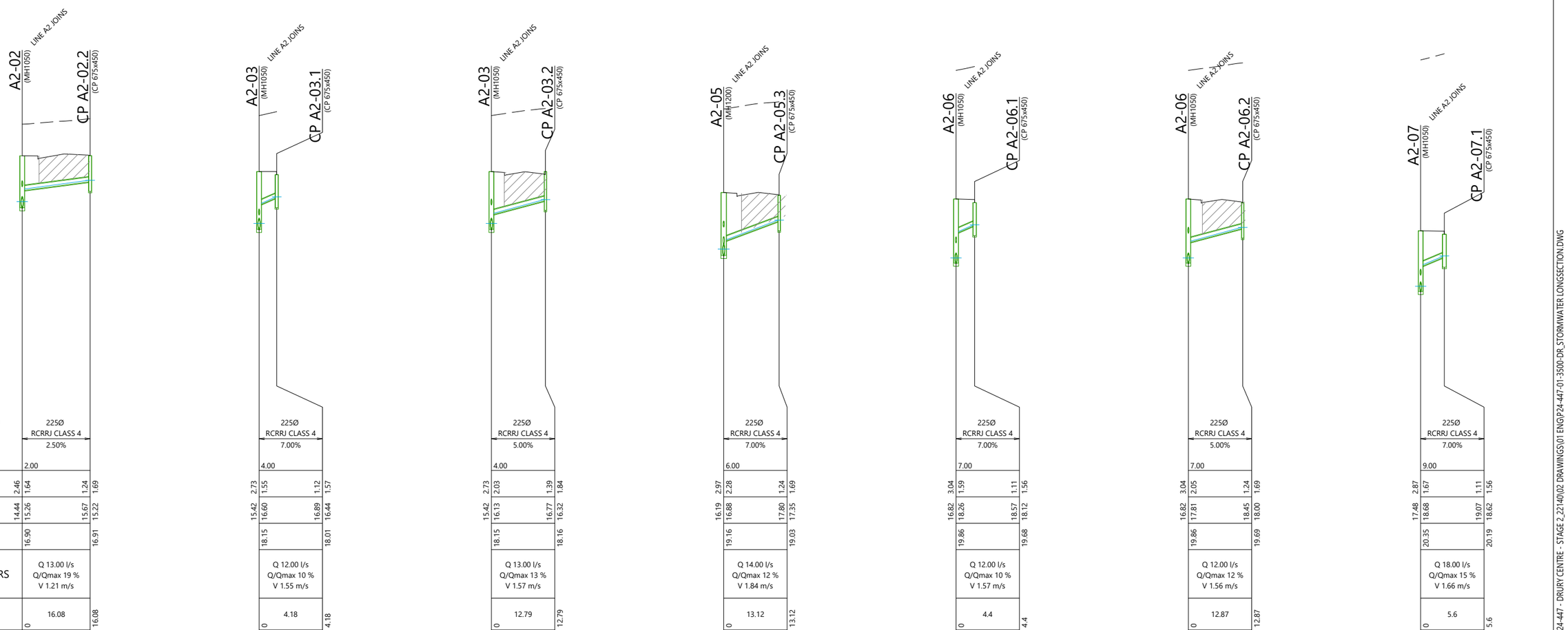
NOT TO SCALE

NOTES

1. PIPE LENGTHS MEASURED FROM MANHOLE CENTRE TO MANHOLE CENTRE.
2. VERTICAL CLEARANCES BETWEEN STORMWATER AND WASTEWATER SERVICES TO COMLPY WITH WATERCARE CODE OF PRACTICE TABLE 5.6.
3. VERTICAL CLEARANCES BETWEEN 500mm AND 300mm TO UTILISE HARD FILL BACKFILL BETWEEN CLASH.
4. IN ALL CASES, PIPES CLASHES SHOULD NOT CONCIDE WITH STORMWATER RCRRJ PIPE SOCKET ENDS.
5. ALL PIPES STEEPER THAN 10% GRADE TO BE INSTALLED WITH CONCRETE BEDDING PER THE STORMWATER COP.
6. NETWORK MODELLED TO TP108 2.1CC.

LEGEND

- PROPOSED HARDFILL BACKFILL
- PROPOSED FINISHED SURFACE
- DEPTH OF FLOW (HYDRAULIC GRADELINE)
- EXISTING GROUND



	CP A2-02.2	CP A2-03.1	CP A2-03.2	CP A2-05.3	CP A2-06.1	CP A2-06.2	CP A2-07.1
PIPE DIAMETER	225Ø	225Ø	225Ø	225Ø	225Ø	225Ø	225Ø
PIPE TYPE	RCRRJ CLASS 4	RCRRJ CLASS 4	RCRRJ CLASS 4	RCRRJ CLASS 4	RCRRJ CLASS 4	RCRRJ CLASS 4	RCRRJ CLASS 4
PIPE GRADE	2.50%	7.00%	5.00%	7.00%	7.00%	5.00%	7.00%
DATUM RL=	2.00	4.00	4.00	6.00	7.00	7.00	9.00
DEPTH TO INVERT	2.46 / 1.64 / 1.24 / 1.69	2.73 / 1.55 / 1.12 / 1.57	2.73 / 2.03 / 1.39 / 1.84	2.97 / 2.28 / 1.24 / 1.69	3.04 / 1.59 / 1.11 / 1.56	3.04 / 2.05 / 1.24 / 1.69	2.87 / 1.67 / 1.11 / 1.56
INVERT LEVEL	14.44 / 15.26 / 15.67 / 15.22	15.42 / 16.60 / 16.89 / 16.44	15.42 / 16.13 / 16.77 / 16.32	16.19 / 16.88 / 17.80 / 17.35	16.82 / 18.26 / 18.57 / 18.12	16.82 / 17.81 / 18.45 / 18.00	17.48 / 18.68 / 19.07 / 18.62
MANHOLE LID LEVEL	16.90 / 16.91	18.15 / 18.01	18.15 / 18.16	19.16 / 19.03	19.86 / 19.68	19.86 / 19.69	20.35 / 20.19
HYDRAULIC PARAMETERS	Q 13.00 l/s Q/Qmax 19 % V 1.21 m/s	Q 12.00 l/s Q/Qmax 10 % V 1.55 m/s	Q 13.00 l/s Q/Qmax 13 % V 1.57 m/s	Q 14.00 l/s Q/Qmax 12 % V 1.84 m/s	Q 12.00 l/s Q/Qmax 10 % V 1.57 m/s	Q 12.00 l/s Q/Qmax 12 % V 1.56 m/s	Q 18.00 l/s Q/Qmax 15 % V 1.66 m/s
CHAINAGE/ LENGTH	0 / 16.08 / 16.08	0 / 4.18 / 4.18	0 / 12.79 / 12.79	0 / 13.12 / 13.12	0 / 4.4 / 4.4	0 / 12.87 / 12.87	0 / 5.6 / 5.6

REVISION DETAILS		INT	DATE	SURVEYED	
1	FOR DISCUSSION	MK	22/01/2025	DESIGNED	MK
2	FOR THE 99% SUBMISSION	MK	10/02/2025	DRAWN	MK
3	FOR FAST TRACK CONSENT	EW	21/02/2025	CHECKED	GW
				APPROVED	CD

BUILDING B, LEVEL 1
8 NUGENT ST, GRAFTON,
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+64 9 308 9229
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Kiwi Property

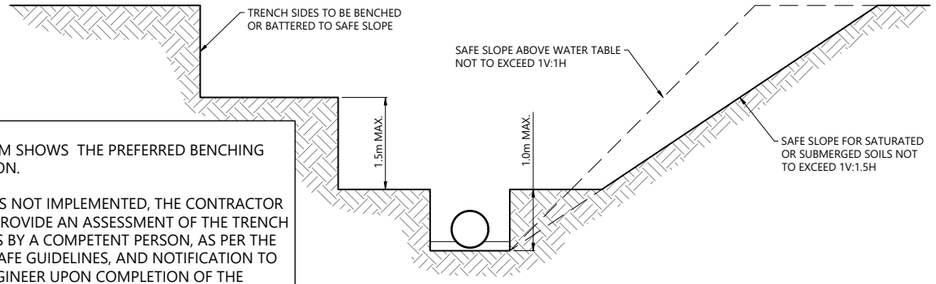
DRURY CENTRE-STAGE 2

STORMWATER LONGSECTION (SHEET 7 OF 19)

STATUS	FOR FAST TRACK CONSENT
SCALE	H 1:1000 @ A3 V 1:200 @ A3
COUNCIL	AUCKLAND COUNCIL
DWG NO	P24-447-01-3506-DR
REV	3

Plot Date: 11:44:41 am,21 February 2025, ELLAWA

File: C:\12DS\DATA\WP-AKL-APP-02\P24-447 - DRURY CENTRE - STAGE 2_22140\02 DRAWINGS\01 ENG\P24-447-01-3500-DR_STORMWATER LONGSECTION.DWG



NOTE:
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EXCAVATION FACES BENCHED AND BATTERED TO A SAFE SLOPE

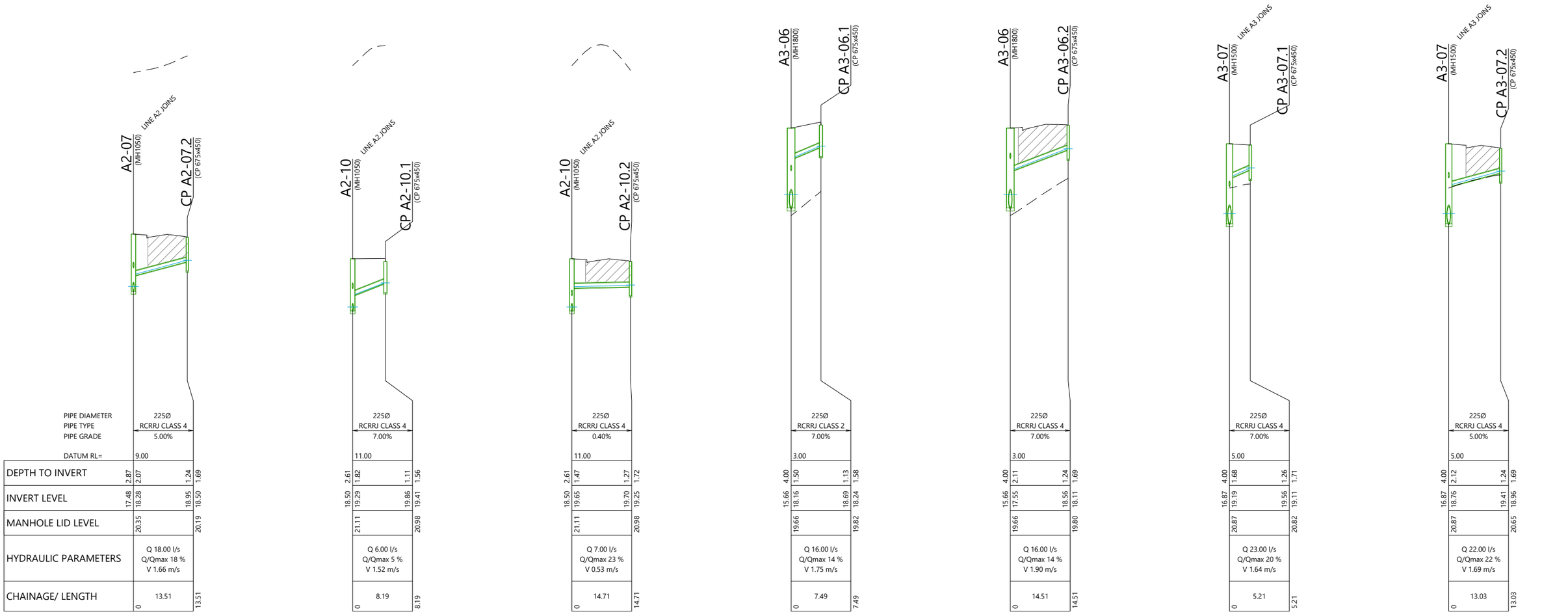
NOT TO SCALE

NOTES

1. PIPE LENGTHS MEASURED FROM MANHOLE CENTRE TO MANHOLE CENTRE.
2. VERTICAL CLEARANCES BETWEEN STORMWATER AND WASTEWATER SERVICES TO COMLPY WITH WATERCARE CODE OF PRACTICE TABLE 5.6.
3. VERTICAL CLEARANCES BETWEEN 500mm AND 300mm TO UTILISE HARD FILL BACKFILL BETWEEN CLASH.
4. IN ALL CASES, PIPES CLASHES SHOULD NOT CONCIDE WITH STORMWATER RCRRJ PIPE SOCKET ENDS.
5. ALL PIPES STEEPER THAN 10% GRADE TO BE INSTALLED WITH CONCRETE BEDDING PER THE STORMWATER COP.
6. NETWORK MODELLED TO TP108 2.1CC.

LEGEND

- PROPOSED HARDFILL BACKFILL
- PROPOSED FINISHED SURFACE
- DEPTH OF FLOW (HYDRAULIC GRADELINE)
- EXISTING GROUND



	CP A2-07.2	CP A2-10.1	CP A2-10.2	CP A3-06.1	CP A3-06.2	CP A3-07.1	CP A3-07.2
PIPE DIAMETER	225Ø	225Ø	225Ø	225Ø	225Ø	225Ø	225Ø
PIPE TYPE	RCRRJ CLASS 4	RCRRJ CLASS 4	RCRRJ CLASS 4	RCRRJ CLASS 2	RCRRJ CLASS 4	RCRRJ CLASS 4	RCRRJ CLASS 4
PIPE GRADE	5.00%	7.00%	0.40%	7.00%	7.00%	7.00%	5.00%
DATUM RL=	9.00	11.00	11.00	3.00	3.00	5.00	5.00
DEPTH TO INVERT	2.87 / 2.07 / 1.24 / 1.69	2.61 / 1.82 / 1.11 / 1.56	2.61 / 1.47 / 1.27 / 1.72	4.00 / 1.50 / 1.13 / 1.58	4.00 / 2.11 / 1.24 / 1.69	4.00 / 1.68 / 1.26 / 1.71	4.00 / 2.12 / 1.24 / 1.69
INVERT LEVEL	17.48 / 18.28 / 18.95 / 18.50	18.50 / 19.29 / 19.86 / 19.41	18.50 / 19.65 / 19.70 / 19.25	15.66 / 18.16 / 18.69 / 18.24	15.66 / 17.55 / 18.56 / 18.11	16.87 / 19.19 / 19.56 / 19.11	16.87 / 18.76 / 19.41 / 18.96
MANHOLE LID LEVEL	20.35 / 20.19	21.11 / 20.98	21.11 / 20.98	19.66 / 19.82	19.66 / 19.80	20.87 / 20.82	20.87 / 20.65
HYDRAULIC PARAMETERS	Q 18.00 l/s Q/Qmax 18 % V 1.66 m/s	Q 6.00 l/s Q/Qmax 5 % V 1.52 m/s	Q 7.00 l/s Q/Qmax 23 % V 0.53 m/s	Q 16.00 l/s Q/Qmax 14 % V 1.75 m/s	Q 16.00 l/s Q/Qmax 14 % V 1.90 m/s	Q 23.00 l/s Q/Qmax 20 % V 1.64 m/s	Q 22.00 l/s Q/Qmax 22 % V 1.69 m/s
CHAINAGE/ LENGTH	0 / 13.51 / 13.51	0 / 8.19 / 8.19	0 / 14.71 / 14.71	0 / 7.49 / 7.49	0 / 14.51 / 14.51	0 / 5.21 / 5.21	0 / 13.03 / 13.03

CP A2-07.2 CP A2-10.1 CP A2-10.2 CP A3-06.1 CP A3-06.2 CP A3-07.1 CP A3-07.2

REVISION DETAILS		INT	DATE	SURVEYED	
1	FOR DISCUSSION	MK	22/01/2025	DESIGNED	MK
2	FOR THE 99% SUBMISSION	MK	10/02/2025	DRAWN	MK
3	FOR FAST TRACK CONSENT	EW	21/02/2025	CHECKED	GW
				APPROVED	CD

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

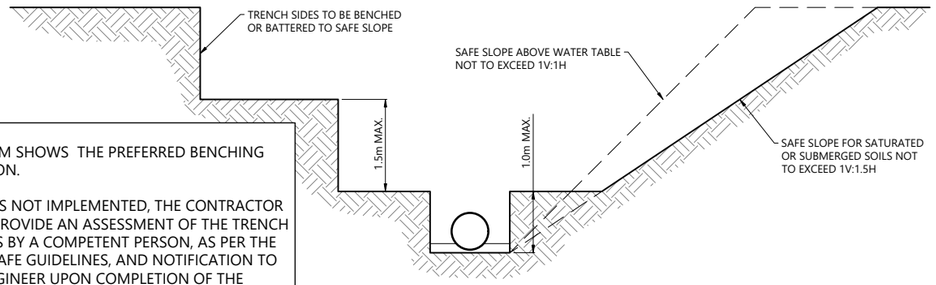
Kiwi Property

DRURY CENTRE-STAGE 2

STORMWATER LONGSECTION (SHEET 8 OF 19)

STATUS	FOR FAST TRACK CONSENT	REV
SCALE	H 1:1000 @ A3 V 1:200 @ A3	3
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P24-447-01-3507-DR	

Plot Date: 11:44:41 am,21 February 2025, ELLAWA
File: C:\12DS\DATA\WP-AKL-APP-02\P24-447 - DRURY CENTRE - STAGE 2_22140\02 DRAWINGS\01 ENG\P24-447-01-3500-DR_STORMWATER LONGSECTION.DWG



NOTE:
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EXCAVATION FACES BENCHED AND BATTERED TO A SAFE SLOPE

NOT TO SCALE

NOTES

1. PIPE LENGTHS MEASURED FROM MANHOLE CENTRE TO MANHOLE CENTRE.
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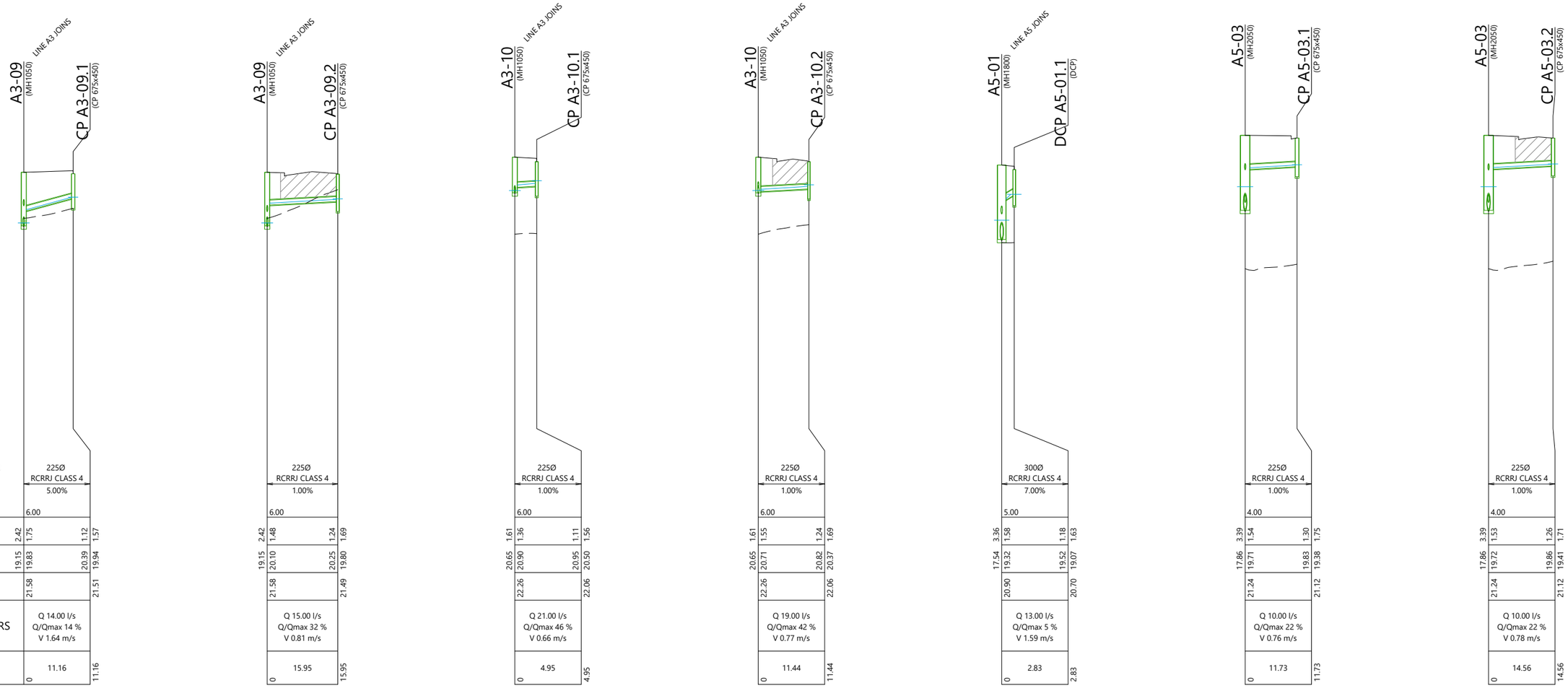
5. ALL PIPES STEEPER THAN 10% GRADE TO BE INSTALLED WITH CONCRETE BEDDING PER THE STORMWATER COP.
6. NETWORK MODELLED TO TP108 2.1CC.

LEGEND

- PROPOSED HARDFILL BACKFILL
- PROPOSED FINISHED SURFACE
- DEPTH OF FLOW (HYDRAULIC GRADELINE)
- EXISTING GROUND



CP A3-09.1 | CP A3-09.2 | CP A3-10.1 | CP A3-10.2 | CP A5-01.1 | CP A5-03.1 | CP A5-03.2

REVISION DETAILS		INT	DATE	SURVEYED	
1	FOR DISCUSSION	MK	22/01/2025	DESIGNED	MK
2	FOR THE 99% SUBMISSION	MK	10/02/2025	DRAWN	MK
3	FOR FAST TRACK CONSENT	EW	21/02/2025	CHECKED	GW
				APPROVED	CD

BUILDING B, LEVEL 1
8 NUGENT ST, GRAFTON,
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Kiwi Property

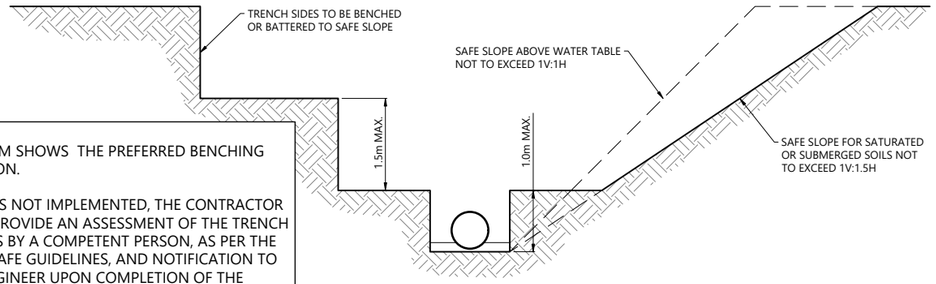
DRURY CENTRE-STAGE 2

STORMWATER LONGSECTION (SHEET 9 OF 19)

STATUS	FOR FAST TRACK CONSENT
SCALE	H 1:1000 @ A3 V 1:200 @ A3
COUNCIL	AUCKLAND COUNCIL
DWG NO	P24-447-01-3508-DR
REV	3

Plot Date: 11:44:41 am,21 February 2025, ELLAWA

File: C:\12DS\DATA\WP-AKL-APP-02\P24-447 - DRURY CENTRE - STAGE 2_22140\02 DRAWINGS\01 ENG\P24-447-01-3500-DR_STORMWATER LONGSECTION.DWG



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EXCAVATION FACES BENCHED AND BATTERED TO A SAFE SLOPE

NOT TO SCALE

NOTES

1. PIPE LENGTHS MEASURED FROM MANHOLE CENTRE TO MANHOLE CENTRE.
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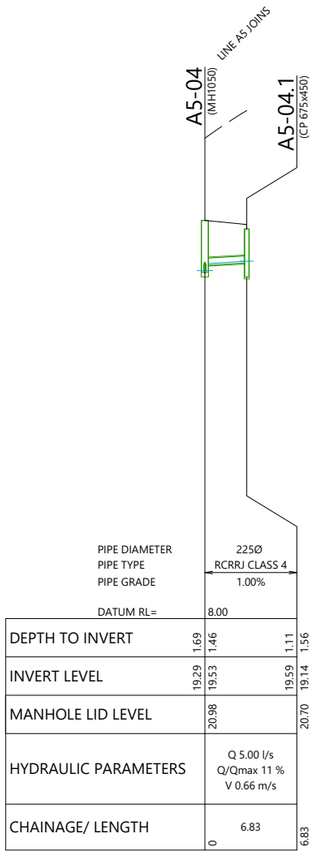
6. NETWORK MODELLED TO TP108 2.1CC.

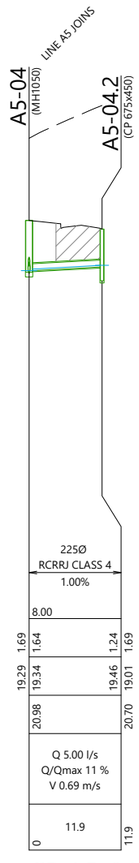
LEGEND

- PROPOSED HARDFILL BACKFILL
- PROPOSED FINISHED SURFACE
- DEPTH OF FLOW (HYDRAULIC GRADELINE)
- EXISTING GROUND



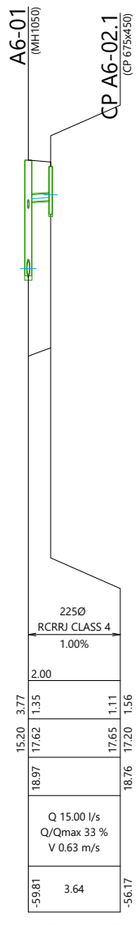
PIPE DIAMETER	225Ø
PIPE TYPE	RCRRJ CLASS 4
PIPE GRADE	1.00%
DATUM RL=	8.00
DEPTH TO INVERT	1.69 / 1.46 / 1.11 / 1.56
INVERT LEVEL	19.29 / 19.53 / 19.59 / 19.14
MANHOLE LID LEVEL	20.98 / 20.70
HYDRAULIC PARAMETERS	Q 5.00 l/s, Q/Qmax 11 %, V 0.66 m/s
CHAINAGE/ LENGTH	0 / 6.83

CP A5-04.1



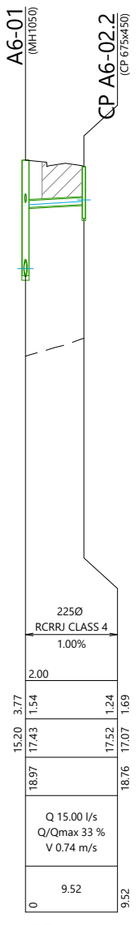
PIPE DIAMETER	225Ø
PIPE TYPE	RCRRJ CLASS 4
PIPE GRADE	1.00%
DATUM RL=	8.00
DEPTH TO INVERT	1.69 / 1.64 / 1.24 / 1.69
INVERT LEVEL	19.29 / 19.34 / 19.46 / 19.01
MANHOLE LID LEVEL	20.98 / 20.70
HYDRAULIC PARAMETERS	Q 5.00 l/s, Q/Qmax 11 %, V 0.69 m/s
CHAINAGE/ LENGTH	0 / 11.9

CP A5-04.2



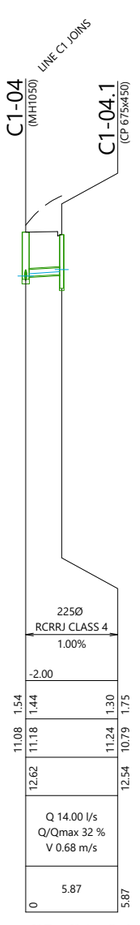
PIPE DIAMETER	225Ø
PIPE TYPE	RCRRJ CLASS 4
PIPE GRADE	1.00%
DATUM RL=	2.00
DEPTH TO INVERT	3.77 / 1.35 / 1.11 / 1.56
INVERT LEVEL	15.20 / 17.62 / 17.65 / 17.20
MANHOLE LID LEVEL	18.97 / 18.76
HYDRAULIC PARAMETERS	Q 15.00 l/s, Q/Qmax 33 %, V 0.63 m/s
CHAINAGE/ LENGTH	-59.81 / 3.64 / -56.17

CP A6-02.1



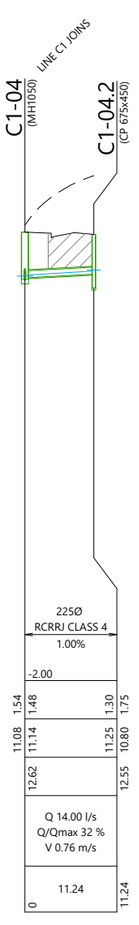
PIPE DIAMETER	225Ø
PIPE TYPE	RCRRJ CLASS 4
PIPE GRADE	1.00%
DATUM RL=	2.00
DEPTH TO INVERT	3.77 / 1.54 / 1.24 / 1.69
INVERT LEVEL	15.20 / 17.43 / 17.52 / 17.07
MANHOLE LID LEVEL	18.97 / 18.76
HYDRAULIC PARAMETERS	Q 15.00 l/s, Q/Qmax 33 %, V 0.74 m/s
CHAINAGE/ LENGTH	0 / 9.52

CP A6-02.2



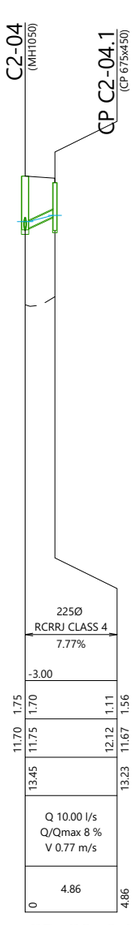
PIPE DIAMETER	225Ø
PIPE TYPE	RCRRJ CLASS 4
PIPE GRADE	1.00%
DATUM RL=	-2.00
DEPTH TO INVERT	1.54 / 1.44 / 1.30 / 1.75
INVERT LEVEL	11.08 / 11.18 / 11.24 / 10.79
MANHOLE LID LEVEL	12.62 / 12.54
HYDRAULIC PARAMETERS	Q 14.00 l/s, Q/Qmax 32 %, V 0.68 m/s
CHAINAGE/ LENGTH	0 / 5.87

CP C1-04.1



PIPE DIAMETER	225Ø
PIPE TYPE	RCRRJ CLASS 4
PIPE GRADE	1.00%
DATUM RL=	-2.00
DEPTH TO INVERT	1.54 / 1.48 / 1.30 / 1.75
INVERT LEVEL	11.08 / 11.14 / 11.25 / 10.80
MANHOLE LID LEVEL	12.62 / 12.55
HYDRAULIC PARAMETERS	Q 14.00 l/s, Q/Qmax 32 %, V 0.76 m/s
CHAINAGE/ LENGTH	0 / 11.24

CP C1-04.2



PIPE DIAMETER	225Ø
PIPE TYPE	RCRRJ CLASS 4
PIPE GRADE	7.77%
DATUM RL=	-3.00
DEPTH TO INVERT	1.75 / 1.70 / 1.11 / 1.56
INVERT LEVEL	11.70 / 11.75 / 12.12 / 11.67
MANHOLE LID LEVEL	13.45 / 13.23
HYDRAULIC PARAMETERS	Q 10.00 l/s, Q/Qmax 8 %, V 0.77 m/s
CHAINAGE/ LENGTH	0 / 4.86

CP C2-04.1

REVISION DETAILS		INT	DATE	SURVEYED	
1	FOR DISCUSSION	MK	22/01/2025	DESIGNED	MK
2	FOR THE 99% SUBMISSION	MK	10/02/2025	DRAWN	MK
3	FOR FAST TRACK CONSENT	EW	21/02/2025	CHECKED	GW
				APPROVED	CD

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+64 9 308 9229
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Kiwi Property

DRURY CENTRE-STAGE 2

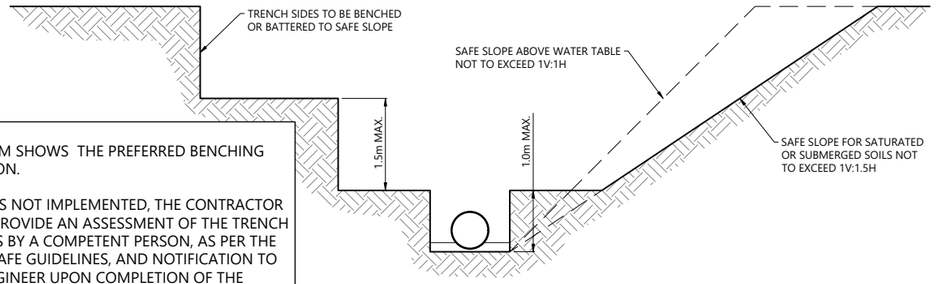
STORMWATER LONGSECTION (SHEET 10 OF 19)

STATUS	FOR FAST TRACK CONSENT
SCALE	H 1:1000 @ A3 V 1:200 @ A3
COUNCIL	AUCKLAND COUNCIL
DWG NO	P24-447-01-3509-DR
REV	3

WOODS Est.1970

Plot Date: 11:44:42 am,21 February 2025, ELLAWA

File: C:\12DS\DATA\WP-AKL-APP-02\P24-447 - DRURY CENTRE - STAGE 2_22140\02 DRAWINGS\01 ENG\P24-447-01-3500-DR_STORMWATER LONGSECTION.DWG



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EXCAVATION FACES BENCHED AND BATTERED TO A SAFE SLOPE

NOT TO SCALE

NOTES

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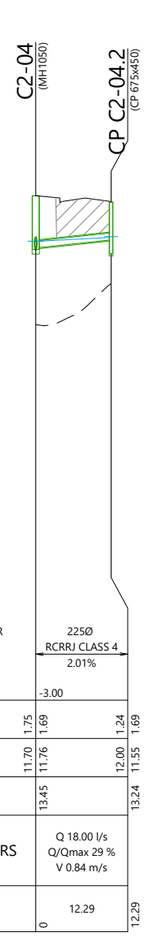
6. NETWORK MODELLED TO TP108 2.1CC.

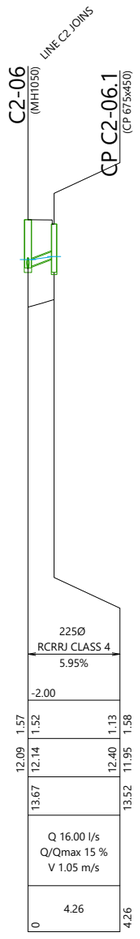
LEGEND

- PROPOSED HARDFILL BACKFILL
- PROPOSED FINISHED SURFACE
- DEPTH OF FLOW (HYDRAULIC GRADELINE)
- EXISTING GROUND



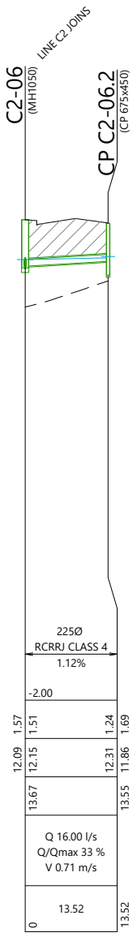
PIPE DIAMETER		225Ø
PIPE TYPE		RCRRJ CLASS 4
PIPE GRADE		2.01%
DATUM RL=		-3.00
DEPTH TO INVERT	1.75	1.24 1.69
INVERT LEVEL	11.70	12.00 11.55
MANHOLE LID LEVEL	13.45	13.24
HYDRAULIC PARAMETERS	Q 18.00 l/s Q/Qmax 29 % V 0.84 m/s	
CHAINAGE/ LENGTH	0	12.29 12.29

CP C2-04.2



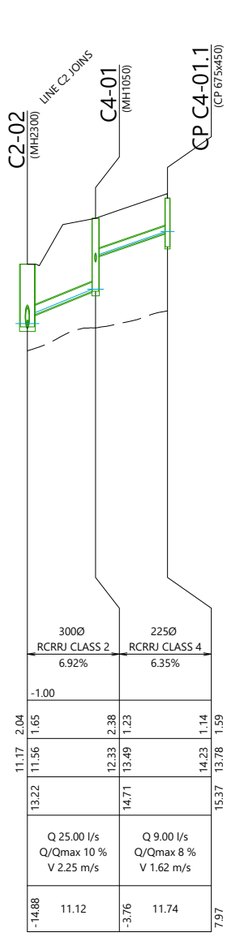
PIPE DIAMETER		225Ø
PIPE TYPE		RCRRJ CLASS 4
PIPE GRADE		5.95%
DATUM RL=		-2.00
DEPTH TO INVERT	1.57	1.13 1.58
INVERT LEVEL	12.09	12.40 11.95
MANHOLE LID LEVEL	13.67	13.52
HYDRAULIC PARAMETERS	Q 16.00 l/s Q/Qmax 15 % V 1.05 m/s	
CHAINAGE/ LENGTH	0	4.26 4.26

CP C2-06.1



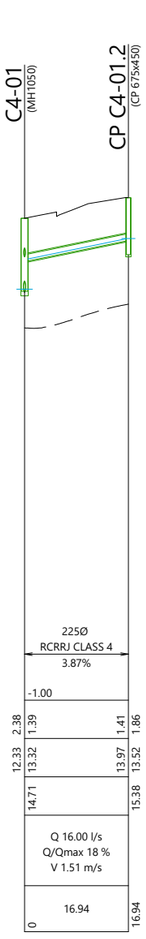
PIPE DIAMETER		225Ø
PIPE TYPE		RCRRJ CLASS 4
PIPE GRADE		1.12%
DATUM RL=		-2.00
DEPTH TO INVERT	1.57	1.24 1.69
INVERT LEVEL	12.09	12.31 11.86
MANHOLE LID LEVEL	13.67	13.55
HYDRAULIC PARAMETERS	Q 16.00 l/s Q/Qmax 33 % V 0.71 m/s	
CHAINAGE/ LENGTH	0	13.52 13.52

CP C2-06.2



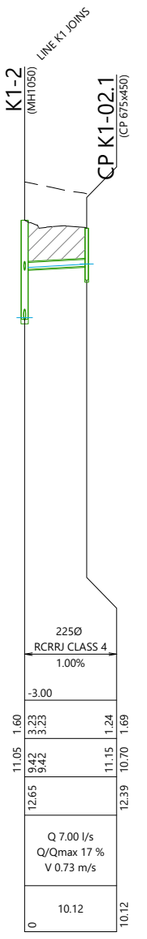
PIPE DIAMETER	300Ø	225Ø
PIPE TYPE	RCRRJ CLASS 2	RCRRJ CLASS 4
PIPE GRADE	6.92%	6.35%
DATUM RL=	-1.00	
DEPTH TO INVERT	2.04 1.65	2.38 1.23 1.14 1.59
INVERT LEVEL	11.17 11.56	12.33 13.49 14.23 13.78
MANHOLE LID LEVEL	13.22	14.71 15.37
HYDRAULIC PARAMETERS	Q 25.00 l/s Q/Qmax 10 % V 2.25 m/s	Q 9.00 l/s Q/Qmax 8 % V 1.62 m/s
CHAINAGE/ LENGTH	-14.88 11.12	-3.76 11.74 7.97

CP C4-01.1



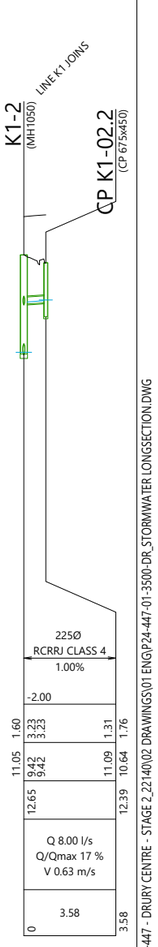
PIPE DIAMETER		225Ø
PIPE TYPE		RCRRJ CLASS 4
PIPE GRADE		3.87%
DATUM RL=		-1.00
DEPTH TO INVERT	2.38	1.41 1.86
INVERT LEVEL	12.33	13.97 13.52
MANHOLE LID LEVEL	14.71	15.38
HYDRAULIC PARAMETERS	Q 16.00 l/s Q/Qmax 18 % V 1.51 m/s	
CHAINAGE/ LENGTH	0	16.94 16.94

CP C4-01.2



PIPE DIAMETER		225Ø
PIPE TYPE		RCRRJ CLASS 4
PIPE GRADE		1.00%
DATUM RL=		-3.00
DEPTH TO INVERT	1.60	1.24 1.69
INVERT LEVEL	11.05	11.15 10.70
MANHOLE LID LEVEL	12.65	12.39
HYDRAULIC PARAMETERS	Q 7.00 l/s Q/Qmax 17 % V 0.73 m/s	
CHAINAGE/ LENGTH	0	10.12 10.12

CP K1-02.1



PIPE DIAMETER		225Ø
PIPE TYPE		RCRRJ CLASS 4
PIPE GRADE		1.00%
DATUM RL=		-2.00
DEPTH TO INVERT	1.60	1.31 1.76
INVERT LEVEL	11.05	11.09 10.64
MANHOLE LID LEVEL	12.65	12.39
HYDRAULIC PARAMETERS	Q 8.00 l/s Q/Qmax 17 % V 0.63 m/s	
CHAINAGE/ LENGTH	0	3.58 3.58

CP K1-02.

REVISION DETAILS		INT	DATE	SURVEYED	
1	FOR DISCUSSION	MK	22/01/2025	DESIGNED	MK
2	FOR THE 99% SUBMISSION	MK	10/02/2025	DRAWN	MK
3	FOR FAST TRACK CONSENT	EW	21/02/2025	CHECKED	GW
				APPROVED	CD

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

Kiwi Property

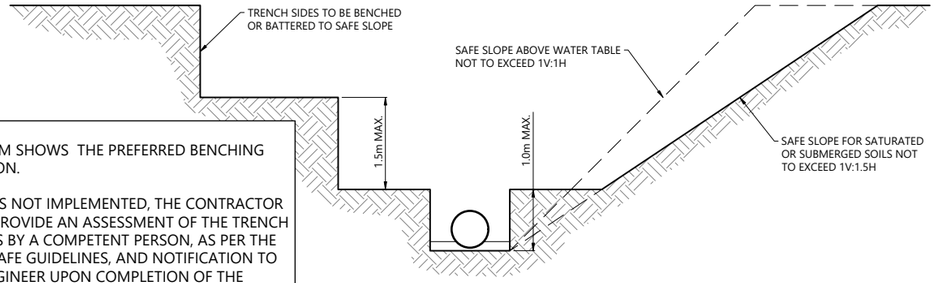
DRURY CENTRE-STAGE 2

STORMWATER LONGSECTION (SHEET 11 OF 19)

STATUS	FOR FAST TRACK CONSENT
SCALE	H 1:1000 @ A3 V 1:200 @ A3
COUNCIL	AUCKLAND COUNCIL
DWG NO	P24-447-01-3510-DR
REV	3

Plot Date: 11:44:42 am,21 February 2025, ELLAWA

File: C:\12DS\DATA\WP-AKL-APP-02\P24-447 - DRURY CENTRE - STAGE 2_22140\02 DRAWINGS\01 ENG\P24-447-01-3500-DR_STORMWATER LONGSECTION.DWG



NOTE:
DIAGRAM SHOWS THE PREFERRED BENCHING SOLUTION.

IF THIS IS NOT IMPLEMENTED, THE CONTRACTOR SHALL PROVIDE AN ASSESSMENT OF THE TRENCH BATTERS BY A COMPETENT PERSON, AS PER THE WORKSAFE GUIDELINES, AND NOTIFICATION TO THE ENGINEER UPON COMPLETION OF THE ASSESSMENT.

EXCAVATION FACES BENCHED AND BATTERED TO A SAFE SLOPE

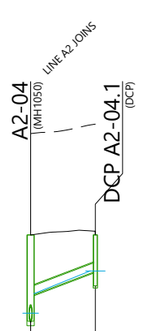
NOT TO SCALE

NOTES

1. PIPE LENGTHS MEASURED FROM MANHOLE CENTRE TO MANHOLE CENTRE.
2. VERTICAL CLEARANCES BETWEEN STORMWATER AND WASTEWATER SERVICES TO COMLPY WITH WATERCARE CODE OF PRACTICE TABLE 5.6.
3. VERTICAL CLEARANCES BETWEEN 500mm AND 300mm TO UTILISE HARD FILL BACKFILL BETWEEN CLASH.
4. IN ALL CASES, PIPES CLASHES SHOULD NOT CONCIDE WITH STORMWATER RCRRJ PIPE SOCKET ENDS.
5. ALL PIPES STEEPER THAN 10% GRADE TO BE INSTALLED WITH CONCRETE BEDDING PER THE STORMWATER COP.
6. NETWORK MODELLED TO TP108 2.1CC.

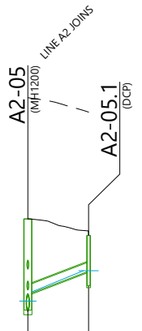
LEGEND

- PROPOSED HARDFILL BACKFILL
- PROPOSED FINISHED SURFACE
- DEPTH OF FLOW (HYDRAULIC GRADELINE)
- EXISTING GROUND



PIPE DIAMETER	300Ø
PIPE TYPE	RCRRJ CLASS 4
PIPE GRADE	7.00%
DATUM RL=	5.00
DEPTH TO INVERT	2.81 1.95 1.21 1.66
INVERT LEVEL	15.83 16.69 17.43 16.98
MANHOLE LID LEVEL	18.64 18.64
HYDRAULIC PARAMETERS	Q 7.00 l/s Q/Qmax 3 % V 1.55 m/s
CHAINAGE/ LENGTH	0 10.56 10.56

DCP A2-04.1

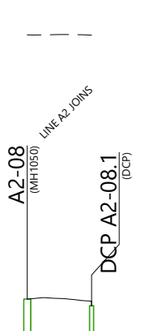


PIPE DIAMETER	300Ø
PIPE TYPE	RCRRJ CLASS 4
PIPE GRADE	7.00%
DATUM RL=	5.00
DEPTH TO INVERT	2.97 2.42 1.18 1.63
INVERT LEVEL	16.19 16.74 17.44 16.99
MANHOLE LID LEVEL	19.16 18.62
HYDRAULIC PARAMETERS	Q 7.00 l/s Q/Qmax 3 % V 1.52 m/s
CHAINAGE/ LENGTH	0 9.91 9.91

DCP A2-05.1

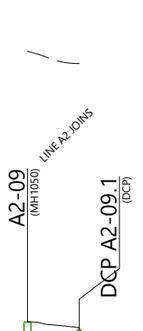
PIPE DIAMETER	225Ø
PIPE TYPE	RCRRJ CLASS 4
PIPE GRADE	7.00%
DATUM RL=	6.00
DEPTH TO INVERT	2.97 1.60 1.12 1.57
INVERT LEVEL	16.19 17.56 17.92 17.47
MANHOLE LID LEVEL	19.16 19.03
HYDRAULIC PARAMETERS	Q 14.00 l/s Q/Qmax 12 % V 1.62 m/s
CHAINAGE/ LENGTH	0 5.14 5.14

DCP A2-05.2



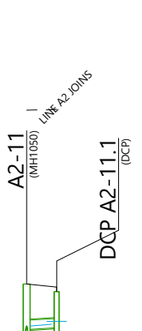
PIPE DIAMETER	300Ø
PIPE TYPE	RCRRJ CLASS 4
PIPE GRADE	4.28%
DATUM RL=	9.00
DEPTH TO INVERT	2.77 1.85 1.18 1.63
INVERT LEVEL	17.78 18.70 19.15 18.70
MANHOLE LID LEVEL	20.55 20.33
HYDRAULIC PARAMETERS	Q 11.00 l/s Q/Qmax 5 % V 1.43 m/s
CHAINAGE/ LENGTH	0 10.5 10.5

DCP A2-08.1



PIPE DIAMETER	300Ø
PIPE TYPE	RCRRJ CLASS 4
PIPE GRADE	5.00%
DATUM RL=	10.00
DEPTH TO INVERT	2.71 1.94 1.26 1.71
INVERT LEVEL	18.09 18.86 19.29 18.84
MANHOLE LID LEVEL	20.80 20.54
HYDRAULIC PARAMETERS	Q 11.00 l/s Q/Qmax 5 % V 1.50 m/s
CHAINAGE/ LENGTH	0 8.44 8.44

DCP A2-09.1



PIPE DIAMETER	300Ø
PIPE TYPE	RCRRJ CLASS 4
PIPE GRADE	1.00%
DATUM RL=	9.00
DEPTH TO INVERT	1.75 1.48 1.18 1.63
INVERT LEVEL	19.28 19.56 19.61 19.16
MANHOLE LID LEVEL	21.04 20.79
HYDRAULIC PARAMETERS	Q 26.00 l/s Q/Qmax 27 % V 0.76 m/s
CHAINAGE/ LENGTH	0 4.9 4.9

DCP A2-11.1

PIPE DIAMETER	300Ø
PIPE TYPE	RCRRJ CLASS 4
PIPE GRADE	1.00%
DATUM RL=	9.00
DEPTH TO INVERT	1.75 1.69 1.31 1.76
INVERT LEVEL	19.28 19.34 19.48 19.03
MANHOLE LID LEVEL	21.04 20.79
HYDRAULIC PARAMETERS	Q 26.00 l/s Q/Qmax 27 % V 0.90 m/s
CHAINAGE/ LENGTH	0 13.2 13.2

DCP A2-11.2

REVISION DETAILS		INT	DATE	SURVEYED	
1	FOR DISCUSSION	MK	22/01/2025	DESIGNED	MK
2	FOR THE 99% SUBMISSION	MK	10/02/2025	DRAWN	MK
3	FOR FAST TRACK CONSENT	EW	21/02/2025	CHECKED	GW
				APPROVED	CD

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Kiwi Property

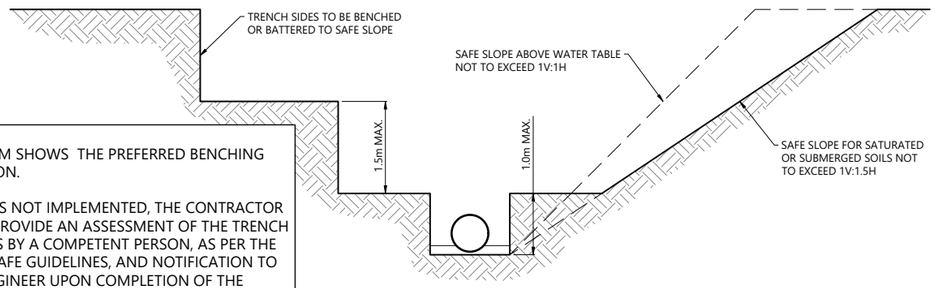
DRURY CENTRE-STAGE 2

STORMWATER LONGSECTION (SHEET 12 OF 19)

STATUS	FOR FAST TRACK CONSENT
SCALE	H 1:1000 @ A3 V 1:200 @ A3
COUNCIL	AUCKLAND COUNCIL
DWG NO	P24-447-01-3511-DR
REV	3

Plot Date: 11:44:42 am,21 February 2025, ELLAWA

File: C:\12DS\DATA\WP-AKL-APP-02\P24-447 - DRURY CENTRE - STAGE 2_22140\02 DRAWINGS\01 ENG\P24-447-01-3500-DR_STORMWATER LONGSECTION.DWG



NOTE:
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EXCAVATION FACES BENCHED AND BATTERED TO A SAFE SLOPE

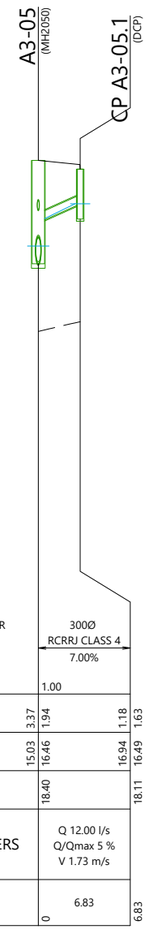
NOT TO SCALE

NOTES

1. PIPE LENGTHS MEASURED FROM MANHOLE CENTRE TO MANHOLE CENTRE.
2. VERTICAL CLEARANCES BETWEEN STORMWATER AND WASTEWATER SERVICES TO COMLPY WITH WATERCARE CODE OF PRACTICE TABLE 5.6.
3. VERTICAL CLEARANCES BETWEEN 500mm AND 300mm TO UTILISE HARD FILL BACKFILL BETWEEN CLASH.
4. IN ALL CASES, PIPES CLASHES SHOULD NOT CONCIDE WITH STORMWATER RCRRJ PIPE SOCKET ENDS.
5. ALL PIPES STEEPER THAN 10% GRADE TO BE INSTALLED WITH CONCRETE BEDDING PER THE STORMWATER COP.
6. NETWORK MODELLED TO TP108 2.1CC.

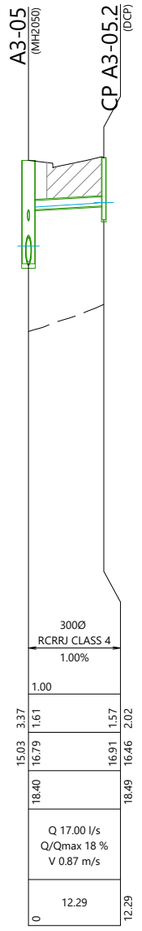
LEGEND

- PROPOSED HARDFILL BACKFILL
- PROPOSED FINISHED SURFACE
- DEPTH OF FLOW (HYDRAULIC GRADELINE)
- EXISTING GROUND



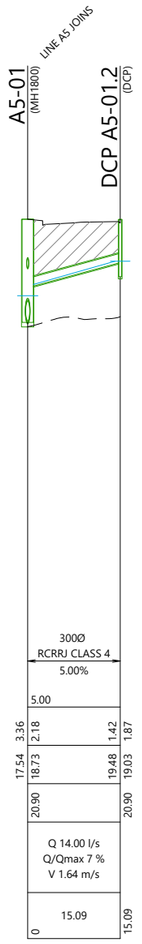
PIPE DIAMETER		300Ø	
PIPE TYPE		RCRRJ CLASS 4	
PIPE GRADE		7.00%	
DATUM RL=		1.00	
DEPTH TO INVERT	3.37	1.94	1.18 1.63
INVERT LEVEL	15.03	16.46	16.94 16.49
MANHOLE LID LEVEL	18.40		18.11
HYDRAULIC PARAMETERS		Q 12.00 l/s Q/Qmax 5 % V 1.73 m/s	
CHAINAGE/ LENGTH	0	6.83	6.83

DCP A3-05.1



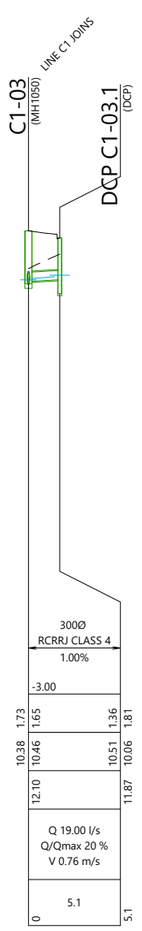
PIPE DIAMETER		300Ø	
PIPE TYPE		RCRRJ CLASS 4	
PIPE GRADE		1.00%	
DATUM RL=		1.00	
DEPTH TO INVERT	3.37	1.61	1.57 2.02
INVERT LEVEL	15.03	16.79	16.91 16.46
MANHOLE LID LEVEL	18.40		18.49
HYDRAULIC PARAMETERS		Q 17.00 l/s Q/Qmax 18 % V 0.87 m/s	
CHAINAGE/ LENGTH	0	12.29	12.29

DCP A3-05.2



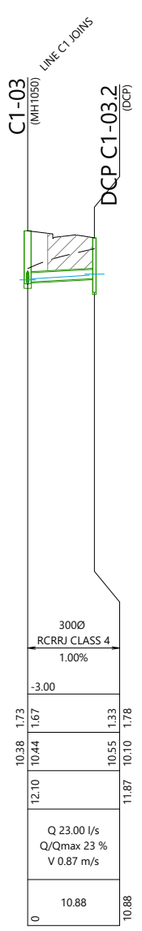
PIPE DIAMETER		300Ø	
PIPE TYPE		RCRRJ CLASS 4	
PIPE GRADE		5.00%	
DATUM RL=		5.00	
DEPTH TO INVERT	3.36	2.18	1.42 1.87
INVERT LEVEL	17.54	18.73	19.48 19.03
MANHOLE LID LEVEL	20.90		20.90
HYDRAULIC PARAMETERS		Q 14.00 l/s Q/Qmax 7 % V 1.64 m/s	
CHAINAGE/ LENGTH	0	15.09	15.09

DCP A5-01.2



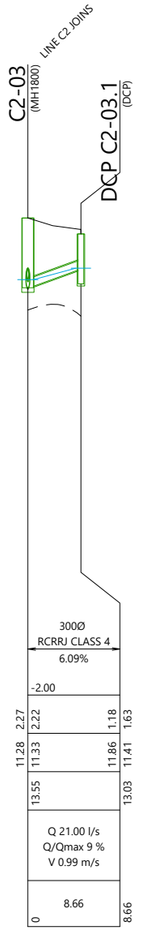
PIPE DIAMETER		300Ø	
PIPE TYPE		RCRRJ CLASS 4	
PIPE GRADE		1.00%	
DATUM RL=		-3.00	
DEPTH TO INVERT	1.73	1.65	1.36 1.81
INVERT LEVEL	10.38	10.46	10.51 10.06
MANHOLE LID LEVEL	12.10		11.87
HYDRAULIC PARAMETERS		Q 19.00 l/s Q/Qmax 20 % V 0.76 m/s	
CHAINAGE/ LENGTH	0	5.1	5.1

DCP C1-03.1



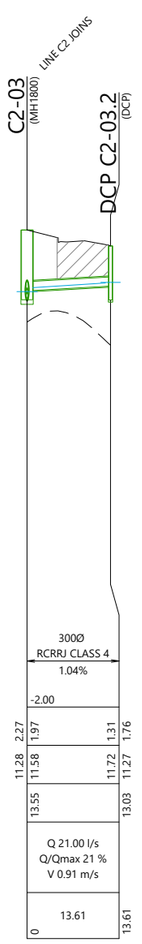
PIPE DIAMETER		300Ø	
PIPE TYPE		RCRRJ CLASS 4	
PIPE GRADE		1.00%	
DATUM RL=		-3.00	
DEPTH TO INVERT	1.73	1.67	1.33 1.78
INVERT LEVEL	10.38	10.44	10.55 10.10
MANHOLE LID LEVEL	12.10		11.87
HYDRAULIC PARAMETERS		Q 23.00 l/s Q/Qmax 23 % V 0.87 m/s	
CHAINAGE/ LENGTH	0	10.88	10.88

DCP C1-03.2



PIPE DIAMETER		300Ø	
PIPE TYPE		RCRRJ CLASS 4	
PIPE GRADE		6.09%	
DATUM RL=		-2.00	
DEPTH TO INVERT	2.27	2.22	1.18 1.63
INVERT LEVEL	11.28	11.33	11.86 11.41
MANHOLE LID LEVEL	13.55		13.03
HYDRAULIC PARAMETERS		Q 21.00 l/s Q/Qmax 9 % V 0.99 m/s	
CHAINAGE/ LENGTH	0	8.66	8.66

DCP C2-03.1



PIPE DIAMETER		300Ø	
PIPE TYPE		RCRRJ CLASS 4	
PIPE GRADE		1.04%	
DATUM RL=		-2.00	
DEPTH TO INVERT	2.27	1.97	1.31 1.76
INVERT LEVEL	11.28	11.58	11.72 11.27
MANHOLE LID LEVEL	13.55		13.03
HYDRAULIC PARAMETERS		Q 21.00 l/s Q/Qmax 21 % V 0.91 m/s	
CHAINAGE/ LENGTH	0	13.61	13.61

DCP C2-03.2

REVISION DETAILS		INT	DATE	SURVEYED	
1	FOR DISCUSSION	MK	22/01/2025	DESIGNED	MK
2	FOR THE 99% SUBMISSION	MK	10/02/2025	DRAWN	MK
3	FOR FAST TRACK CONSENT	EW	21/02/2025	CHECKED	GW
				APPROVED	CD

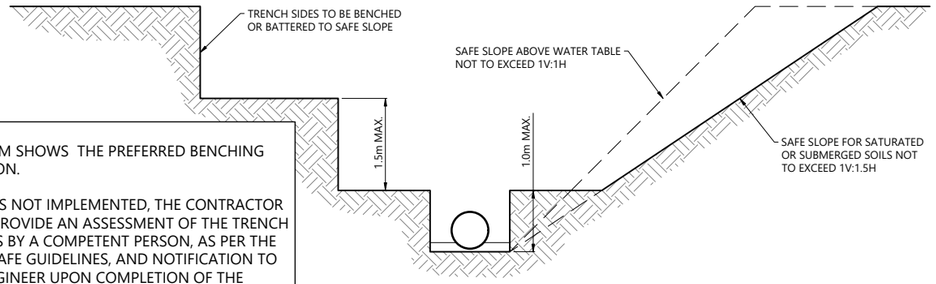
BUILDING B, LEVEL 1
8 NUGENT ST, GRAFTON,
AUCKLAND 1023
+64 9 308 9229
WOODS.CO.NZ

Kiwi Property

DRURY CENTRE-STAGE 2

STORMWATER LONGSECTION (SHEET 13 OF 19)

STATUS	FOR FAST TRACK CONSENT	REV
SCALE	H 1:1000 @ A3 V 1:200 @ A3	3
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P24-447-01-3512-DR	



NOTE:
DIAGRAM SHOWS THE PREFERRED BENCHING SOLUTION.

IF THIS IS NOT IMPLEMENTED, THE CONTRACTOR SHALL PROVIDE AN ASSESSMENT OF THE TRENCH BATTERS BY A COMPETENT PERSON, AS PER THE WORKSAFE GUIDELINES, AND NOTIFICATION TO THE ENGINEER UPON COMPLETION OF THE ASSESSMENT.

EXCAVATION FACES BENCHED AND BATTERED TO A SAFE SLOPE

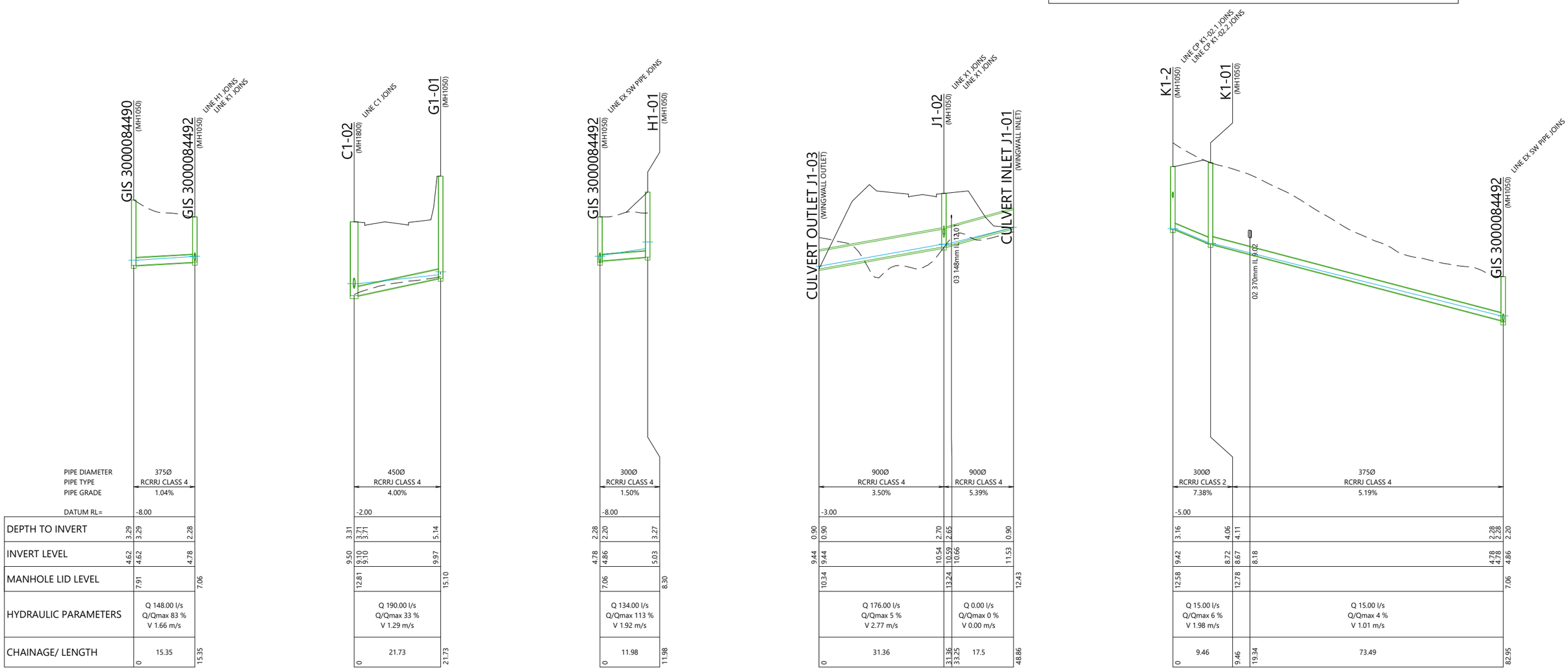
NOT TO SCALE

NOTES

1. PIPE LENGTHS MEASURED FROM MANHOLE CENTRE TO MANHOLE CENTRE.
2. VERTICAL CLEARANCES BETWEEN STORMWATER AND WASTEWATER SERVICES TO COMLPY WITH WATERCARE CODE OF PRACTICE TABLE 5.6.
3. VERTICAL CLEARANCES BETWEEN 500mm AND 300mm TO UTILISE HARD FILL BACKFILL BETWEEN CLASH.
4. IN ALL CASES, PIPES CLASHES SHOULD NOT CONCIDE WITH STORMWATER RCRRJ PIPE SOCKET ENDS.
5. ALL PIPES STEEPER THAN 10% GRADE TO BE INSTALLED WITH CONCRETE BEDDING PER THE STORMWATER COP.
6. NETWORK MODELLED TO TP108 2.1CC.

LEGEND

- PROPOSED HARDFILL BACKFILL
- PROPOSED FINISHED SURFACE
- DEPTH OF FLOW (HYDRAULIC GRADELINE)
- EXISTING GROUND



	EX SW PIPE	G1	H1	J1		K1	
PIPE DIAMETER	375Ø	450Ø	300Ø	900Ø	900Ø	300Ø	375Ø
PIPE TYPE	RCRRJ CLASS 4	RCRRJ CLASS 4	RCRRJ CLASS 4	RCRRJ CLASS 4	RCRRJ CLASS 4	RCRRJ CLASS 2	RCRRJ CLASS 4
PIPE GRADE	1.04%	4.00%	1.50%	3.50%	5.39%	7.38%	5.19%
DATUM RL=	-8.00	-2.00	-8.00	-3.00		-5.00	
DEPTH TO INVERT	3.29 3.29 2.28	3.31 3.71 3.71 5.14	2.28 2.20 3.27	0.90 0.90 2.70	2.65 0.90	3.16 4.06	4.11 2.28 2.28 2.20
INVERT LEVEL	4.62 4.62 4.78	9.50 9.10 9.10 9.97	4.78 4.86 5.03	9.44 9.44 10.54	10.59 10.66 11.53	9.42 8.72	8.67 8.18 4.78 4.78 4.86
MANHOLE LID LEVEL	7.91 7.06	12.81 15.10	7.06 8.30	10.34 12.43	13.24	12.58	12.78 7.06
HYDRAULIC PARAMETERS	Q 148.00 l/s Q/Qmax 83 % V 1.66 m/s	Q 190.00 l/s Q/Qmax 33 % V 1.29 m/s	Q 134.00 l/s Q/Qmax 113 % V 1.92 m/s	Q 176.00 l/s Q/Qmax 5 % V 2.77 m/s	Q 0.00 l/s Q/Qmax 0 % V 0.00 m/s	Q 15.00 l/s Q/Qmax 6 % V 1.98 m/s	Q 15.00 l/s Q/Qmax 4 % V 1.01 m/s
CHAINAGE/ LENGTH	0 15.35 15.35	0 21.73 21.73	0 11.98 11.98	0 31.36 31.36	33.25 17.5 48.86	0 9.46 9.46	19.34 73.49 82.95

REVISION DETAILS		INT	DATE	SURVEYED	
1	FOR DISCUSSION	MK	22/01/2025	DESIGNED	MK
2	FOR THE 99% SUBMISSION	MK	10/02/2025	DRAWN	MK
3	FOR FAST TRACK CONSENT	EW	21/02/2025	CHECKED	GW
				APPROVED	CD

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

Kiwi Property

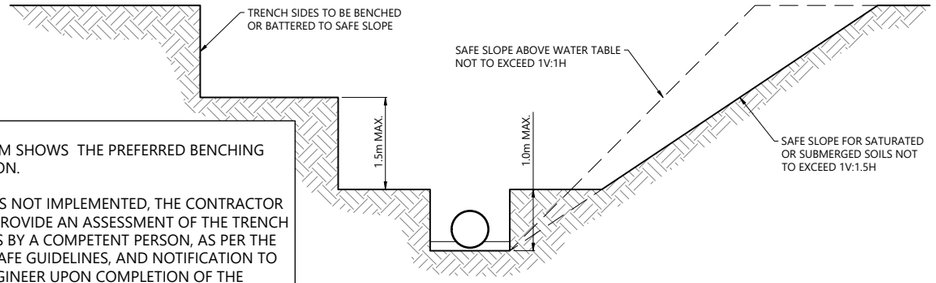
DRURY CENTRE-STAGE 2

STORMWATER LONGSECTION (SHEET 14 OF 19)

STATUS	FOR FAST TRACK CONSENT	REV
SCALE	H 1:1000 @ A3 V 1:200 @ A3	3
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P24-447-01-3513-DR	

Plot Date: 8:59:26 am,28 February 2025, ELLAWA

File: C:\12DS\DATA\WP-AKL-APP-02\P24-447 - DRURY CENTRE - STAGE 2_22140\02 DRAWINGS\01 ENG\P24-447-01-3500-DR_STORMWATER LONGSECTION.DWG



NOTE:
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EXCAVATION FACES BENCHED AND BATTERED TO A SAFE SLOPE

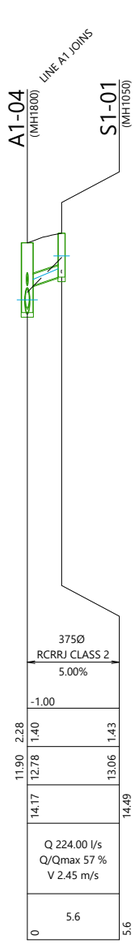
NOT TO SCALE

NOTES

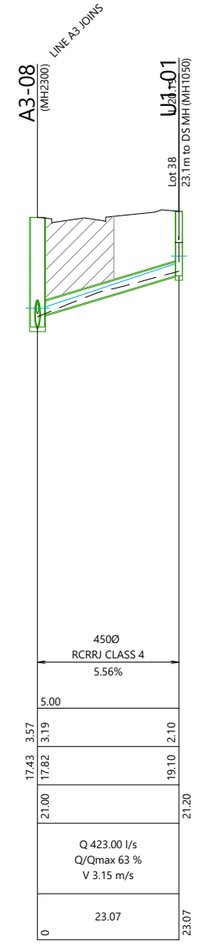
1. PIPE LENGTHS MEASURED FROM MANHOLE CENTRE TO MANHOLE CENTRE.
2. VERTICAL CLEARANCES BETWEEN STORMWATER AND WASTEWATER SERVICES TO COMLPY WITH WATERCARE CODE OF PRACTICE TABLE 5.6.
3. VERTICAL CLEARANCES BETWEEN 500mm AND 300mm TO UTILISE HARD FILL BACKFILL BETWEEN CLASH.
4. IN ALL CASES, PIPES CLASHES SHOULD NOT CONCIDE WITH STORMWATER RCRRJ PIPE SOCKET ENDS.
5. ALL PIPES STEEPER THAN 10% GRADE TO BE INSTALLED WITH CONCRETE BEDDING PER THE STORMWATER COP.
6. NETWORK MODELLED TO TP108 2.1CC.

LEGEND

- PROPOSED HARDFILL BACKFILL
- PROPOSED FINISHED SURFACE
- DEPTH OF FLOW (HYDRAULIC GRADELINE)
- EXISTING GROUND



S1



U1

REVISION DETAILS		INT	DATE	SURVEYED	
1	FOR DISCUSSION	MK	22/01/2025	DESIGNED	MK
2	FOR THE 99% SUBMISSION	MK	10/02/2025	DRAWN	MK
3	FOR FAST TRACK CONSENT	EW	21/02/2025	CHECKED	GW
4	FOR FAST TRACK CONSENT	GW	21/03/2025	APPROVED	CD

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

Kiwi Property

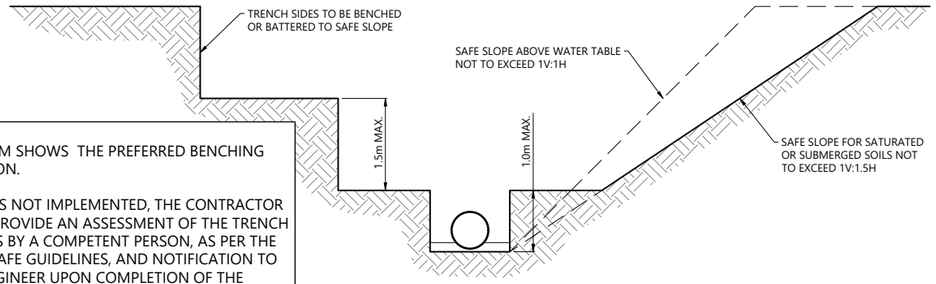
DRURY CENTRE-STAGE 2

STORMWATER LONGSECTION (SHEET 15 OF 19)

STATUS	FOR FAST TRACK CONSENT
SCALE	H 1:1000 @ A3 V 1:200 @ A3
COUNCIL	AUCKLAND COUNCIL
DWG NO	P24-447-01-3514-DR
REV	4

Plot Date: 4:09:56 pm,21 March 2025, GLENNW

File: C:\2DSYNERGY\DATA\WP-PEN-APP-01\P24-447 - DRURY CENTRE - STAGE 2_22140\02 DRAWINGS\01 ENG\P24-447-01-3500-DR_STORMWATER LONGSECTION.DWG



NOTE:
DIAGRAM SHOWS THE PREFERRED BENCHING SOLUTION.

IF THIS IS NOT IMPLEMENTED, THE CONTRACTOR SHALL PROVIDE AN ASSESSMENT OF THE TRENCH BATTERS BY A COMPETENT PERSON, AS PER THE WORKSAFE GUIDELINES, AND NOTIFICATION TO THE ENGINEER UPON COMPLETION OF THE ASSESSMENT.

EXCAVATION FACES BENCHED AND BATTERED TO A SAFE SLOPE

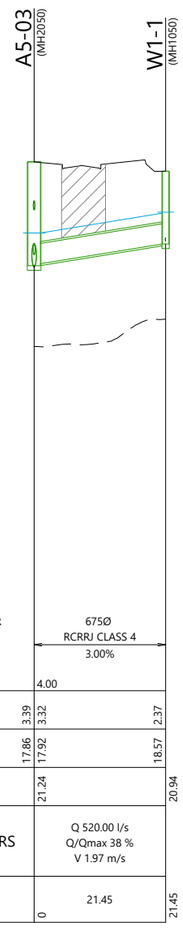
NOT TO SCALE

NOTES

1. PIPE LENGTHS MEASURED FROM MANHOLE CENTRE TO MANHOLE CENTRE.
2. VERTICAL CLEARANCES BETWEEN STORMWATER AND WASTEWATER SERVICES TO COMLPY WITH WATERCARE CODE OF PRACTICE TABLE 5.6.
3. VERTICAL CLEARANCES BETWEEN 500mm AND 300mm TO UTILISE HARD FILL BACKFILL BETWEEN CLASH.
4. IN ALL CASES, PIPES CLASHES SHOULD NOT CONCIDE WITH STORMWATER RCRRJ PIPE SOCKET ENDS.
5. ALL PIPES STEEPER THAN 10% GRADE TO BE INSTALLED WITH CONCRETE BEDDING PER THE STORMWATER COP.
6. NETWORK MODELLED TO TP108 2.1CC.

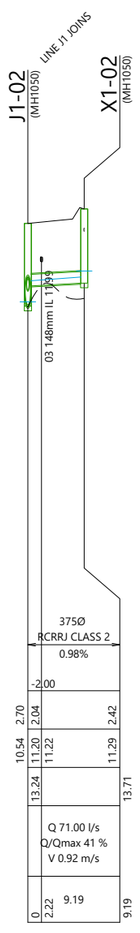
LEGEND

- PROPOSED HARDFILL BACKFILL
- PROPOSED FINISHED SURFACE
- DEPTH OF FLOW (HYDRAULIC GRADELINE)
- EXISTING GROUND



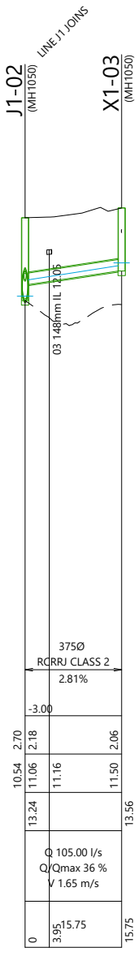
PIPE DIAMETER		675Ø
PIPE TYPE		RCRRJ CLASS 4
PIPE GRADE		3.00%
DATUM RL=		4.00
DEPTH TO INVERT	3.39	3.32 / 2.37
INVERT LEVEL	17.86	17.92 / 18.57
MANHOLE LID LEVEL	21.24	20.94
HYDRAULIC PARAMETERS		Q 520.00 l/s Q/Qmax 38 % V 1.97 m/s
CHAINAGE/ LENGTH	0	21.45 / 21.45

W1



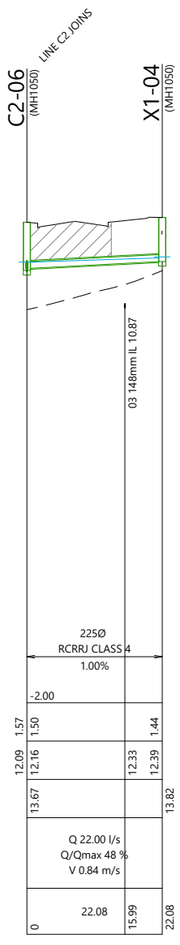
PIPE DIAMETER		375Ø
PIPE TYPE		RCRRJ CLASS 2
PIPE GRADE		0.98%
		-2.00
DEPTH TO INVERT	2.70	2.04 / 2.42
INVERT LEVEL	10.54	11.20 / 11.29
MANHOLE LID LEVEL	13.24	13.71
HYDRAULIC PARAMETERS		Q 71.00 l/s Q/Qmax 41 % V 0.92 m/s
CHAINAGE/ LENGTH	0	2.22 / 9.19

X1



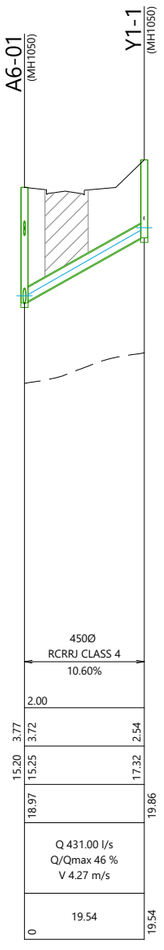
PIPE DIAMETER		375Ø
PIPE TYPE		RCRRJ CLASS 2
PIPE GRADE		2.81%
		-3.00
DEPTH TO INVERT	2.70	2.18 / 2.06
INVERT LEVEL	10.54	11.06 / 11.50
MANHOLE LID LEVEL	13.24	13.56
HYDRAULIC PARAMETERS		Q 105.00 l/s Q/Qmax 36 % V 1.65 m/s
CHAINAGE/ LENGTH	0	3.95 / 15.75

X1



PIPE DIAMETER		225Ø
PIPE TYPE		RCRRJ CLASS 4
PIPE GRADE		1.00%
		-2.00
DEPTH TO INVERT	1.57	1.50 / 1.44
INVERT LEVEL	12.09	12.16 / 12.39
MANHOLE LID LEVEL	13.67	13.82
HYDRAULIC PARAMETERS		Q 22.00 l/s Q/Qmax 48 % V 0.84 m/s
CHAINAGE/ LENGTH	0	22.08 / 22.08

X1-04



PIPE DIAMETER		450Ø
PIPE TYPE		RCRRJ CLASS 4
PIPE GRADE		10.60%
		2.00
DEPTH TO INVERT	3.77	3.72 / 2.54
INVERT LEVEL	15.20	15.25 / 17.32
MANHOLE LID LEVEL	18.97	19.86
HYDRAULIC PARAMETERS		Q 431.00 l/s Q/Qmax 46 % V 4.27 m/s
CHAINAGE/ LENGTH	0	19.54 / 19.54

Y1

REVISION DETAILS		INT	DATE	SURVEYED	
1	FOR DISCUSSION	MK	22/01/2025	DESIGNED	MK
2	FOR THE 99% SUBMISSION	MK	10/02/2025	DRAWN	MK
3	FOR FAST TRACK CONSENT	EW	21/02/2025	CHECKED	GW
				APPROVED	CD

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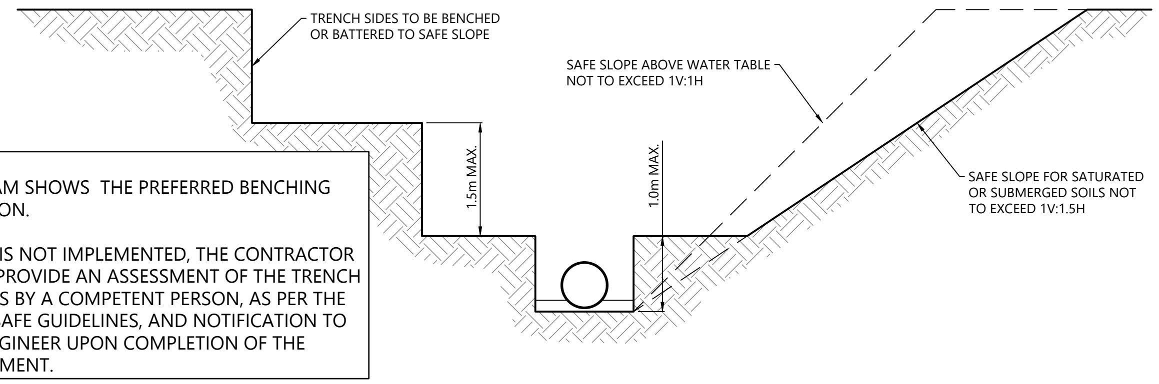
WOODS.CO.NZ

Kiwi Property

DRURY CENTRE-STAGE 2

STORMWATER LONGSECTION (SHEET 16 OF 19)

STATUS	FOR FAST TRACK CONSENT
SCALE	H 1:1000 @ A3 V 1:200 @ A3
COUNCIL	AUCKLAND COUNCIL
DWG NO	P24-447-01-3515-DR
REV	3



NOTE:
DIAGRAM SHOWS THE PREFERRED BENCHING SOLUTION.

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EXCAVATION FACES BENCHED AND BATTERED TO A SAFE SLOPE

NOT TO SCALE

NOTES

1. PIPE LENGTHS MEASURED FROM MANHOLE CENTRE TO MANHOLE CENTRE.
2. VERTICAL CLEARANCES BETWEEN STORMWATER AND WASTEWATER SERVICES TO COMLPY WITH WATERCARE CODE OF PRACTICE TABLE 5.6.
3. VERTICAL CLEARANCES BETWEEN 500mm AND 300mm TO UTILISE HARD FILL BACKFILL BETWEEN CLASH.
4. IN ALL CASES, PIPES CLASHES SHOULD NOT CONCIDE WITH STORMWATER RCRRJ PIPE SOCKET ENDS.
5. ALL PIPES STEEPER THAN 10% GRADE TO BE INSTALLED WITH CONCRETE BEDDING PER THE STORMWATER COP.
6. NETWORK MODELLED TO TP108 2.1CC.

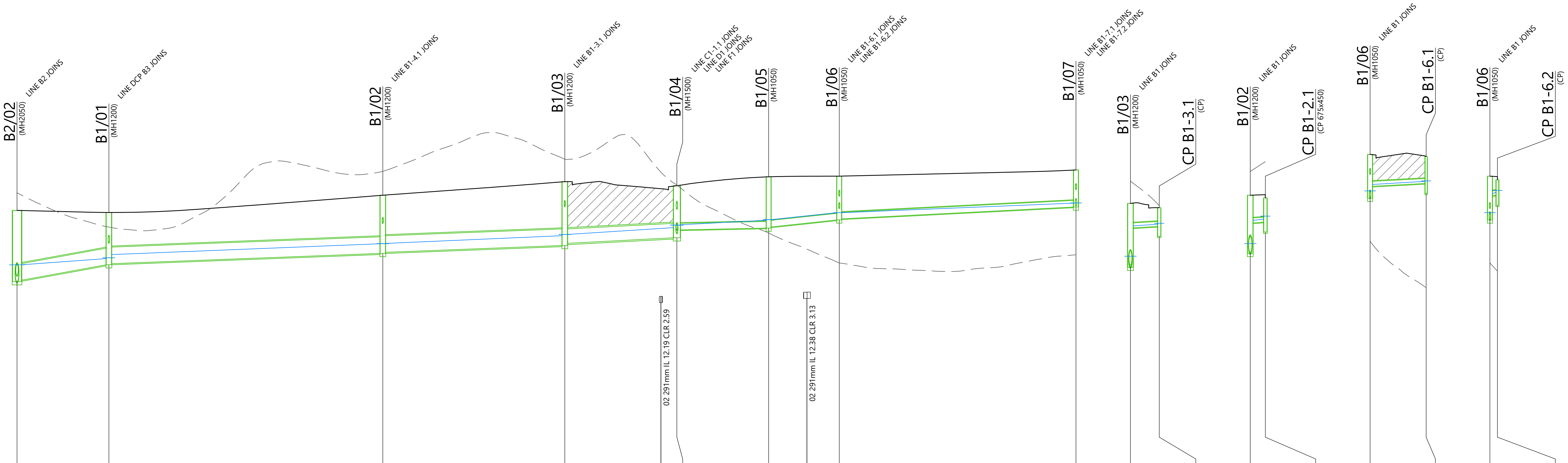
LEGEND

PROPOSED HARDFILL BACKFILL

PROPOSED FINISHED SURFACE

DEPTH OF FLOW (HYDRAULIC GRADELINE)

EXISTING GROUND



B1

DATUM RL= 2.00

Point	Chainage	Depth to invert	Invert level	Manhole lid level
B2/02	-185.28	3.27 / 3.21	13.15 / 13.22	16.42
B1/01	-164.2	2.40 / 2.35	13.93 / 13.98	16.33
B1/02	-101.34	2.68 / 2.63	14.45 / 14.50	17.12
B1/03	-59.58	2.94 / 2.84	14.81 / 14.91	17.75
Crossing	-37.52		15.14	
B1/04	-33.85	2.39 / 2.03	15.17 / 15.53	17.56
B1/05	-12.8	2.36 / 2.31	15.62 / 15.67	17.97
Crossing	-4.01		15.84	
B1/06	3.4	2.01 / 1.96	15.99 / 16.04	18.00
B1/07	57.73	1.70	16.58	18.29

Pipe diameter	Pipe type	Pipe grade	Hydraulic parameters	Length
750Ø	RCRRJ CLASS 2	3.37%	Q 805.3 l/s, Qcap 1300.6 l/s, V 3.10 m/s	21.08
750Ø	RCRRJ CLASS 2	0.75%	Q 750.4 l/s, Qcap 964.5 l/s, V 2.41 m/s	62.86
750Ø	RCRRJ CLASS 2	0.75%	Q 728.4 l/s, Qcap 964.5 l/s, V 2.40 m/s	41.76
675Ø	RCRRJ CLASS 4	1.00%	Q 713.2 l/s, Qcap 840.9 l/s, V 2.64 m/s	25.72
300Ø	RCRRJ CLASS 2	0.40%	Q 116.7 l/s, Qcap 169.1 l/s, V 2.58 m/s	21.06
300Ø	RCRRJ CLASS 2	2.00%	Q 117.2 l/s, Qcap 136.8 l/s, V 2.17 m/s	16.2
300Ø	RCRRJ CLASS 2	1.00%	Q 80.8 l/s, Qcap 96.7 l/s, V 1.53 m/s	54.33

B1-3.1 / B1-4.1 / B1-6.1 / B1-6.2

Line	Datum RL	Pipe	Grade	Start chainage	Start depth	Start IL	Start lid	End chainage	End depth	End IL	End lid	Hydraulic parameters	Length
B1-3.1	3.00	225Ø RCRRJ CLASS 2	1.00%	0	2.94 / 1.12	14.81 / 16.62	17.75	6.61	0.86 / 1.31	16.69 / 16.24	17.55	Q 19.4 l/s, Qcap 44.9 l/s, V 1.09 m/s	6.61
B1-4.1	2.00	225Ø RCRRJ CLASS 4	1.00%	0	2.68 / 1.27	14.45 / 15.85	17.12	3.46	1.12 / 1.57	15.89 / 15.44	17.00	Q 29.7 l/s, Qcap 44.9 l/s, V 1.21 m/s	3.46
B1-6.1	1.00	225Ø RCRRJ CLASS 4	1.00%	0	2.01 / 1.46	15.99 / 16.54	18.00	12.86	1.24 / 1.69	16.66 / 16.21	17.90	Q 17.1 l/s, Qcap 44.9 l/s, V 1.05 m/s	12.86
B1-6.2	2.00	225Ø RCRRJ CLASS 2	1.00%	0	2.01 / 0.90	15.99 / 17.10	18.00	1.72	0.71 / 1.16	17.12 / 16.67	17.83	Q 21.8 l/s, Qcap 44.9 l/s, V 1.12 m/s	1.72

REVISION DETAILS		INT	DATE		
1	FOR DISCUSSION	MK	22/01/2025	SURVEYED	
2	FOR THE 99% SUBMISSION	MK	10/02/2025	DESIGNED	MK
3	FOR FAST TRACK CONSENT	EW	21/02/2025	DRAWN	MK
				CHECKED	GW
				APPROVED	CD

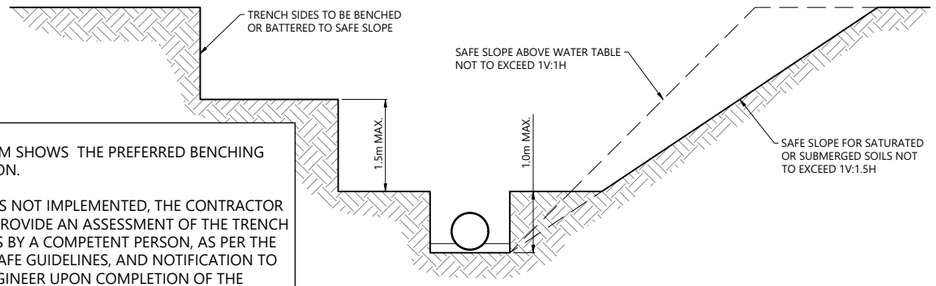
BUILDING B, LEVEL 1
8 NUGENT ST, GRAFTON,
AUCKLAND 1023
+64 9 308 9229
WOODS.CO.NZ

DRURY CENTRE-STAGE 2

STORMWATER LONGSECTION (SHEET 17 OF 19)

STATUS	FOR FAST TRACK CONSENT	REV
SCALE	H 1:1000 @ A3 V 1:200 @ A3	3
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P24-447-01-3516-DR	

Plot Date: 11:44:44 am,21 February 2025, ELLAWA
File: C:\12DS\DATA\WP-AKL-APP-02\P24-447 - DRURY CENTRE - STAGE 2_22140\02 DRAWINGS\01 ENG\P24-447-01-3500-DR_STORMWATER LONGSECTION.DWG



NOTE:
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EXCAVATION FACES BENCHED AND BATTERED TO A SAFE SLOPE

NOT TO SCALE

NOTES

1. PIPE LENGTHS MEASURED FROM MANHOLE CENTRE TO MANHOLE CENTRE.
2. VERTICAL CLEARANCES BETWEEN STORMWATER AND WASTEWATER SERVICES TO COMLPY WITH WATERCARE CODE OF PRACTICE TABLE 5.6.
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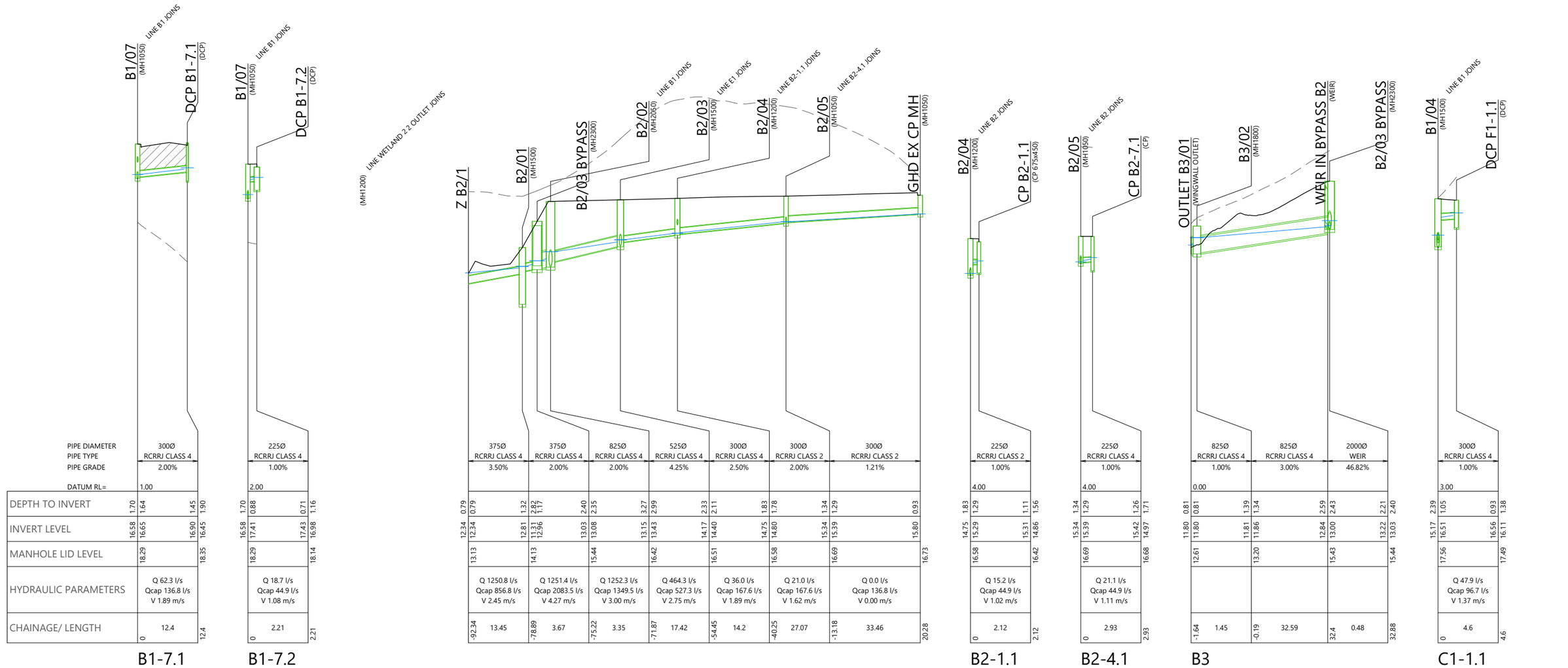
6. NETWORK MODELLED TO TP108 2.1CC.

LEGEND

- PROPOSED HARDFILL BACKFILL
- PROPOSED FINISHED SURFACE
- DEPTH OF FLOW (HYDRAULIC GRADELINE)
- EXISTING GROUND



	B1-7.1	B1-7.2	B2-1.1	B2-4.1	B3	C1-1.1
PIPE DIAMETER	300Ø	225Ø	375Ø / 375Ø / 825Ø / 525Ø / 300Ø / 300Ø / 300Ø	225Ø	225Ø	825Ø / 825Ø / 2000Ø	300Ø
PIPE TYPE	RCRRJ CLASS 4	RCRRJ CLASS 4	RCRRJ CLASS 4 / RCRRJ CLASS 4 / RCRRJ CLASS 4 / RCRRJ CLASS 4 / RCRRJ CLASS 4 / RCRRJ CLASS 2 / RCRRJ CLASS 2	RCRRJ CLASS 2	RCRRJ CLASS 4	RCRRJ CLASS 4 / RCRRJ CLASS 4 / WEIR	RCRRJ CLASS 4
PIPE GRADE	2.00%	1.00%	3.50% / 2.00% / 2.00% / 4.25% / 2.50% / 2.00% / 1.21%	1.00%	1.00%	1.00% / 3.00% / 46.82%	1.00%
DATUM RL=	1.00	2.00	4.00	4.00	0.00	3.00
DEPTH TO INVERT	1.70 / 1.64 / 1.45 / 1.90	1.70 / 0.88 / 0.71 / 1.16	0.79 / 0.79 / 1.32 / 2.82 / 1.17 / 2.40 / 2.35 / 3.27 / 2.99 / 2.33 / 2.11 / 1.83 / 1.78 / 1.34 / 1.29 / 0.93	1.83 / 1.29 / 1.11 / 1.56	1.34 / 1.29 / 1.26 / 1.71	0.81 / 0.81 / 1.39 / 1.34 / 2.59 / 2.43 / 2.21 / 2.40	2.39 / 1.05 / 0.93 / 1.38
INVERT LEVEL	16.58 / 16.65 / 16.90 / 16.45	16.58 / 17.41 / 17.43 / 16.98	12.34 / 12.34 / 12.81 / 11.31 / 12.96 / 13.03 / 13.08 / 13.15 / 13.43 / 14.17 / 14.40 / 14.75 / 14.80 / 15.34 / 15.39 / 15.80	14.75 / 15.29 / 15.31 / 14.86	15.34 / 15.39 / 15.42 / 14.97	11.80 / 11.80 / 11.81 / 11.86 / 12.84 / 13.00 / 13.22 / 13.03	15.17 / 16.51 / 16.56 / 16.11
MANHOLE LID LEVEL	18.29 / 18.35	18.29 / 18.14	13.13 / 14.13 / 15.44 / 16.42 / 16.51 / 16.58 / 16.69 / 16.73	16.58 / 16.69 / 16.42	16.69 / 16.68	12.61 / 13.20 / 15.43 / 15.44	17.56 / 17.49
HYDRAULIC PARAMETERS	Q 62.3 l/s Qcap 136.8 l/s V 1.89 m/s	Q 18.7 l/s Qcap 44.9 l/s V 1.08 m/s	Q 1250.8 l/s Qcap 856.8 l/s V 2.45 m/s / Q 1251.4 l/s Qcap 2083.5 l/s V 4.27 m/s / Q 1252.3 l/s Qcap 1349.5 l/s V 3.00 m/s / Q 464.3 l/s Qcap 527.3 l/s V 2.75 m/s / Q 36.0 l/s Qcap 167.6 l/s V 1.89 m/s / Q 21.0 l/s Qcap 167.6 l/s V 1.62 m/s / Q 0.0 l/s Qcap 136.8 l/s V 0.00 m/s	Q 15.2 l/s Qcap 44.9 l/s V 1.02 m/s	Q 21.1 l/s Qcap 44.9 l/s V 1.11 m/s		Q 47.9 l/s Qcap 96.7 l/s V 1.37 m/s
CHAINAGE/ LENGTH	0 / 12.4 / 12.4	0 / 2.21 / 2.21	-92.34 / 13.45 / -78.89 / 3.67 / -75.22 / 3.35 / -71.87 / 17.42 / -54.45 / 14.2 / -40.25 / 27.07 / -13.18 / 33.46 / 20.28	0 / 2.12 / 2.12	0 / 2.93 / 2.93	-1.64 / 1.45 / -0.19 / 32.59 / 32.4 / 0.48 / 32.88	0 / 4.6 / 4.6

REVISION DETAILS		INT	DATE	SURVEYED	
1	FOR DISCUSSION	MK	22/01/2025	DESIGNED	MK
2	FOR THE 99% SUBMISSION	MK	10/02/2025	DRAWN	MK
3	FOR FAST TRACK CONSENT	EW	21/02/2025	CHECKED	GW
				APPROVED	CD

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

Kiwi Property

DRURY CENTRE-STAGE 2

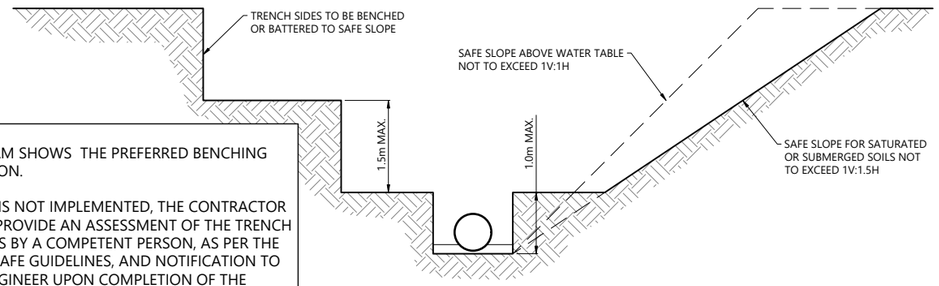
STORMWATER LONGSECTION (SHEET 18 OF 19)

STATUS	FOR FAST TRACK CONSENT	REV
SCALE	H 1:1000 @ A3 V 1:200 @ A3	3
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P24-447-01-3517-DR	

WOODS Est.1970

Plot Date: 11:44:44 am,21 February 2025, ELLAWA

File: C:\12DS\DATA\WP-AKL-APP-02\P24-447 - DRURY CENTRE - STAGE 2_22140\02 DRAWINGS\01 ENGP\24-447-01-3500-DR_STORMWATER LONGSECTION.DWG



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EXCAVATION FACES BENCHED AND BATTERED TO A SAFE SLOPE

NOT TO SCALE

NOTES

1. PIPE LENGTHS MEASURED FROM MANHOLE CENTRE TO MANHOLE CENTRE.
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3. VERTICAL CLEARANCES BETWEEN 500mm AND 300mm TO UTILISE HARD FILL BACKFILL BETWEEN CLASH.
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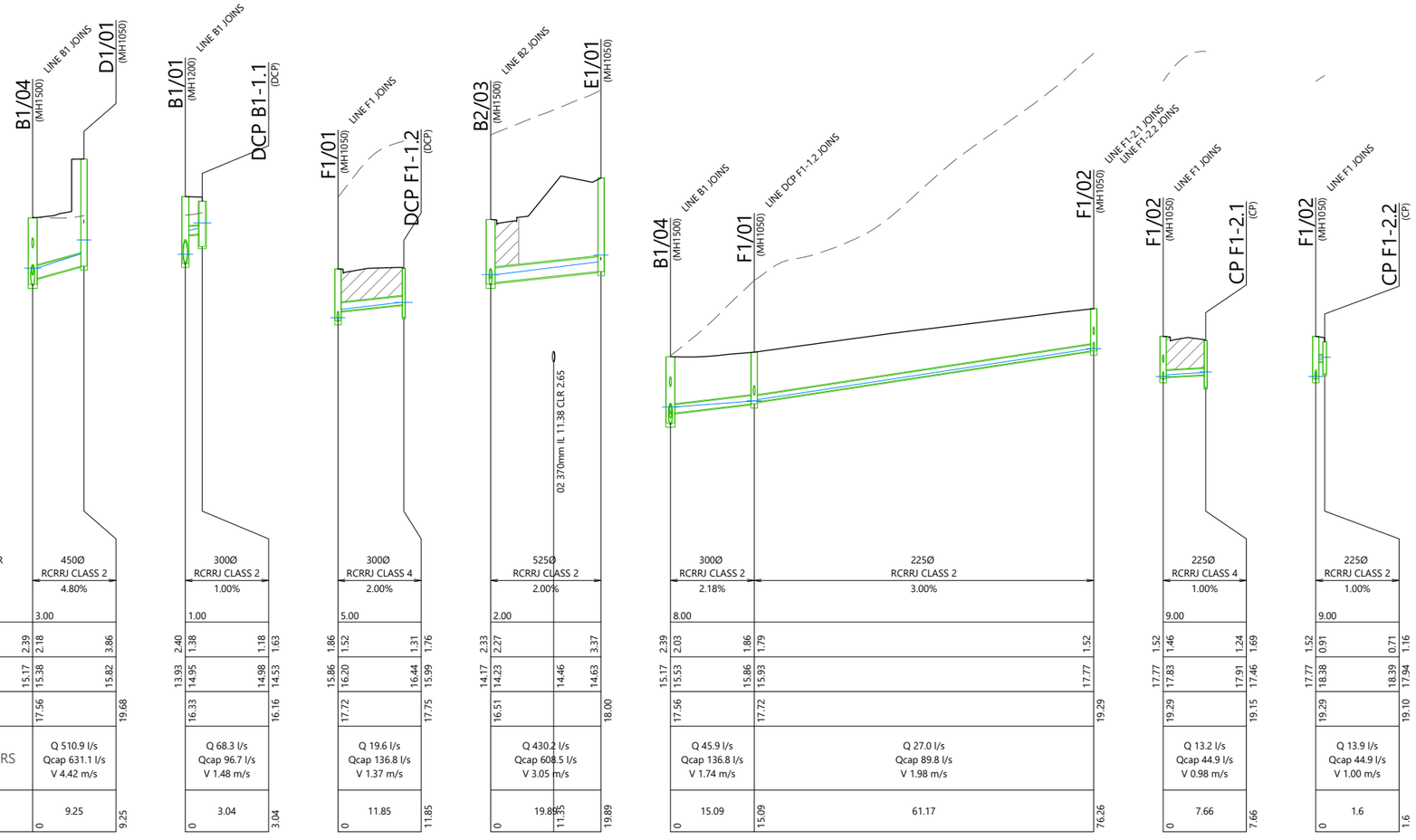
6. NETWORK MODELLED TO TP108 2.1CC.

LEGEND

- PROPOSED HARDFILL BACKFILL
- PROPOSED FINISHED SURFACE
- DEPTH OF FLOW (HYDRAULIC GRADELINE)
- EXISTING GROUND



D1 DCP B3 DCP F1-1.2 E1 F1 F1-2.1 F1-2.2

REVISION DETAILS		INT	DATE	SURVEYED	
1	FOR DISCUSSION	MK	22/01/2025	DESIGNED	MK
2	FOR THE 99% SUBMISSION	MK	10/02/2025	DRAWN	MK
3	FOR FAST TRACK CONSENT	EW	21/02/2025	CHECKED	GW
				APPROVED	CD

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8 NUGENT ST, GRAFTON,
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WOODS.CO.NZ

Kiwi Property

DRURY CENTRE-STAGE 2

STORMWATER LONGSECTION (SHEET 19 OF 19)

STATUS	FOR FAST TRACK CONSENT
SCALE	H 1:1000 @ A3 V 1:200 @ A3
COUNCIL	AUCKLAND COUNCIL
DWG NO	P24-447-01-3518-DR
REV	3

Plot Date: 11:44:44 am,21 February 2025, ELLAWA

File: C:\12DS\DATA\WP-AKL-APP-02\P24-447 - DRURY CENTRE - STAGE 2_22140\02 DRAWINGS\01 ENG\P24-447-01-3500-DR_STORMWATER LONGSECTION.DWG

REVISION DETAILS		INT	DATE	SURVEYED	
1	FOR 50% DESIGN	AC	20/11/2024	DESIGNED	AC
2	FOR 99% SUBMISSION	AC	10/02/2025	DRAWN	AC
3	FOR FAST TRACK CONSENT	EW	21/02/2025	CHECKED	GW
				APPROVED	CD

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

Kiwi Property

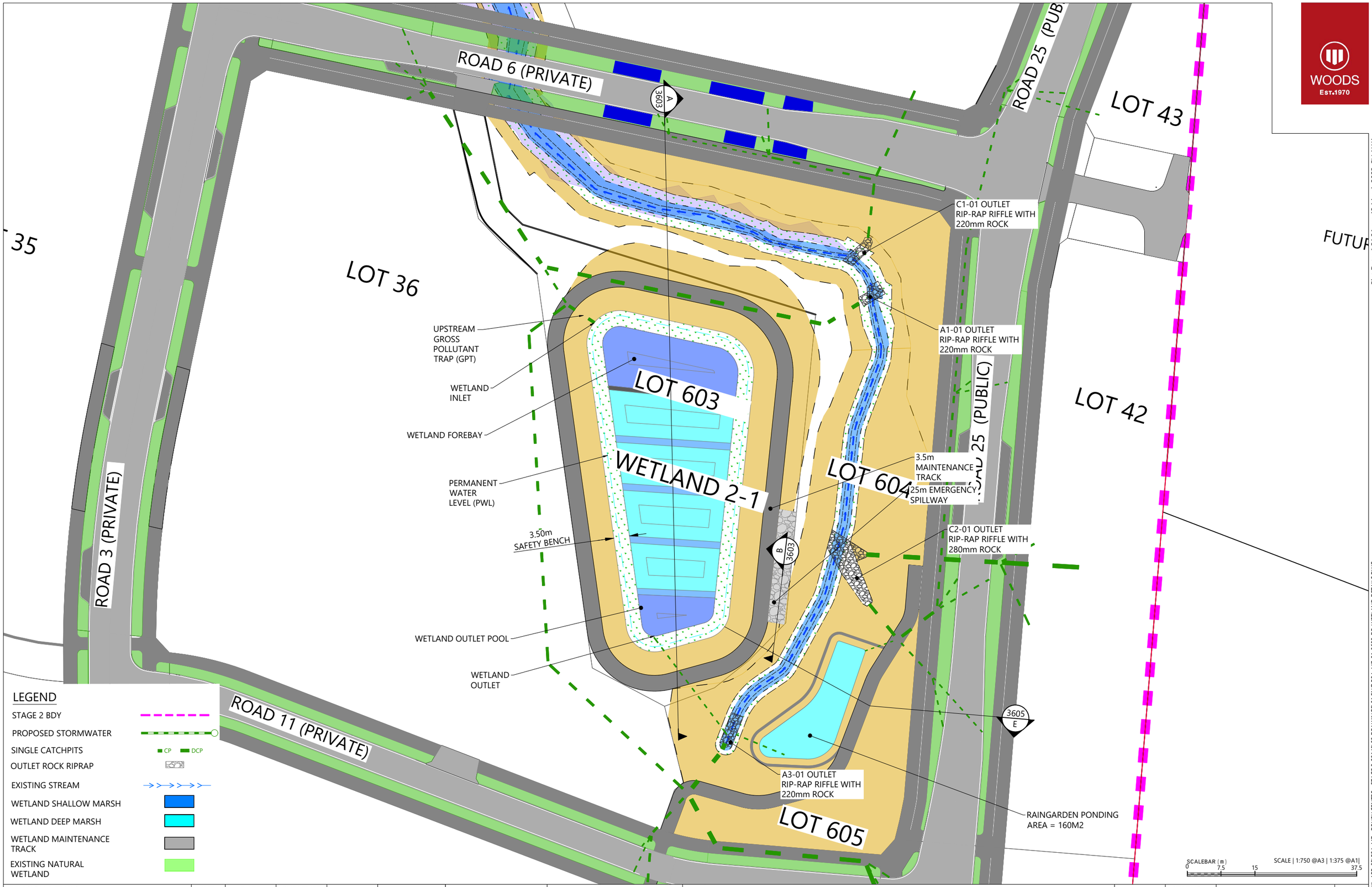
DRURY CENTRE-STAGE 2

OVERALL WETLANDS LAYOUT PLAN

STATUS	FOR FAST TRACK CONSENT
SCALE	1:2500 @ A3
COUNCIL	AUCKLAND COUNCIL
DWG NO	P24-447-01-3600-DR
REV	3

Plot Date: 4:13:47 pm,21 March 2025, GLENNW

File: C:\12DSYNERGY\DATA\WP-PEN-APP-01\P24-447 - DRURY CENTRE - STAGE 2_22140\02 DRAWINGS\01 ENG\P24-447-01-3600-DR_WETLAND DETAILS.DWG



REVISION DETAILS		INT	DATE	SURVEYED	
1	FOR 50% DESIGN	AC	20/11/2024	DESIGNED	AC
2	FOR 99% SUBMISSION	AC	10/02/2025	DRAWN	AC
3	FOR FAST TRACK CONSENT	EW	21/02/2025	CHECKED	GW
				APPROVED	CD

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

DRURY CENTRE-STAGE 2

WETLAND 2-1 LAYOUT PLAN

N

STATUS	FOR FAST TRACK CONSENT	REV
SCALE	1:750 @ A3	3
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P24-447-01-3601-DR	

Plot Date: 1:51:31 pm, 12 March 2025, ELLAWA
File: C:\12DS\DATA\WP-AKL-APP-02\P24-447 - DRURY CENTRE - STAGE 2_22140\02 DRAWINGS\01 ENG\P24-447-01-3600-DR_WETLAND DETAILS.DWG

LOT 35

100YEAR, 3.8° CLIMATE CHANGE FLOOD PLAIN EXTENTS

ROAD 2 NORTH & WETLAND 2-2 SHOWN FOR INFORMATION ONLY AND WILL BE CONSENTED UNDER THE NZTA SH1 OFFRAMP PROJECT

LC

PROPOSED SHARED PATH AND MAINTENANCE ACCESS TO WETLAND

C 3604

PERMANENT WATER LEVEL (PWL)

WETLAND FOREBAY

LOT 40

WETLAND 2-2

ROAD 2 NORTH (PUBLIC)

3.0m SAFETY BENCH

FUTURE ACCESSWAY

ROAD 3 (PRIVATE)

WETLAND INLET

GPT

3.5m MAINTENANCE TRACK

D 3602

UPSTREAM GROSS POLLUTANT TRAP

WETLAND OUTLET

WETLAND OUTLET POOL

LOT 601

15m EMERGENCY SPILLWAY

PROPOSED PEDESTRIAN BOARDWALK

STORMWATER OUTLET ROCK CHUTE

PROPOSED SHARED PATH

LOT 33

LEGEND

- STAGE 2 BDY
- PROPOSED STORMWATER
- SINGLE CATCHPITS (CP, DCP)
- OUTLET ROCK RIPRAP
- EXISTING STREAM
- WETLAND SHALLOW MARSH
- WETLAND DEEP MARSH
- WETLAND MAINTENANCE TRACK
- EXISTING NATURAL WETLAND
- NATURAL WETLAND

SCALEBAR (m) 0 7.5 15 37.5

SCALE | 1:750 @A3 | 1:375 @A1|

REVISION DETAILS		INT	DATE	SURVEYED	
1	FOR 50% DESIGN	AC	20/11/2024	DESIGNED	AC
2	FOR 99% SUBMISSION	AC	10/02/2025	DRAWN	AC
3	FOR FAST TRACK CONSENT	EW	21/02/2025	CHECKED	GW
				APPROVED	CD

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

DRURY CENTRE-STAGE 2

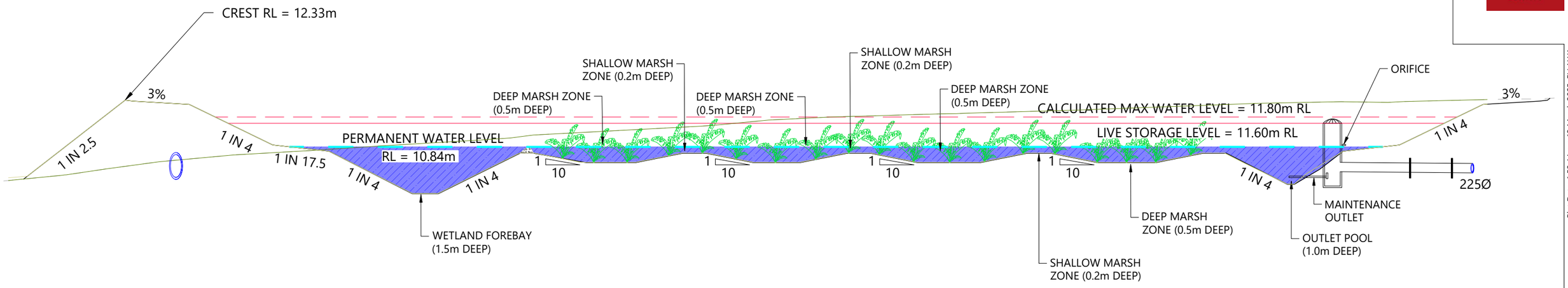
WETLAND 2-2 LAYOUT PLAN

N

STATUS	FOR FAST TRACK CONSENT	REV
SCALE	1:750 @ A3	3
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P24-447-01-3602-DR	

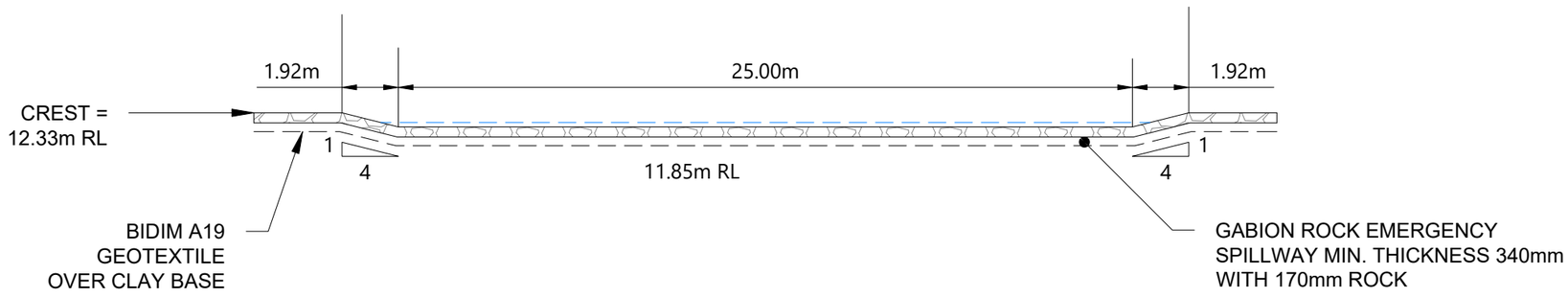
Plot Date: 1:51:32 pm, 12 March 2025, ELLAWA

File: C:\12DS\DATA\WP-AKL-APP-02\P24-447 - DRURY CENTRE - STAGE 2_22140\02 DRAWINGS\01 ENG\P24-447-01-3600-DR_WETLAND DETAILS.DWG



WETLAND 2-1 CROSS-SECTION -A

1:250(H) 1:125(V) @A3



EMERGENCY SPILLWAY CROSS-SECTION-B

1:200 @A3

NOTES

1. REFER TO SHEET 3601 FOR WETLAND 2-1 OVERALL PLAN.

REVISION DETAILS		INT	DATE	SURVEYED	
1	FOR 90% DESIGN	AC	29/11/2024	DESIGNED	AC
2	FOR 99% SUBMISSION	AC	10/02/2025	DRAWN	AC
3	FOR FAST TRACK CONSENT	EW	21/02/2025	CHECKED	GW
				APPROVED	CD

BUILDING B, LEVEL 1
8 NUGENT ST, GRAFTON,
AUCKLAND 1023
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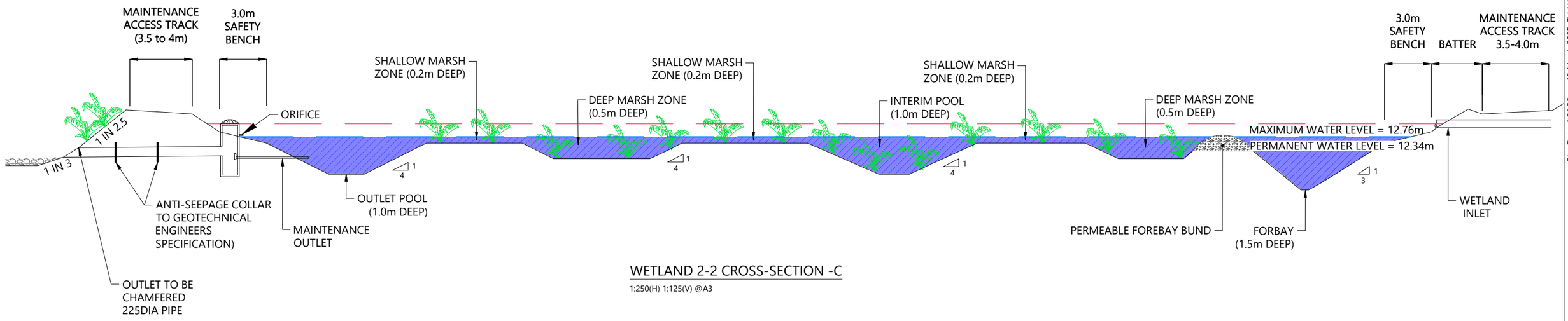
DRURY CENTRE-STAGE 2

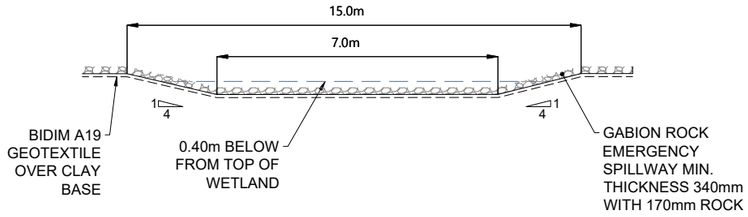
WETLAND 2-1 CROSS SECTION PLAN

STATUS	FOR FAST TRACK CONSENT	REV
SCALE	AS SHOWN	3
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P24-447-01-3603-DR	



WETLAND 2-2 CROSS-SECTION -C

1:250(H) 1:125(V) @A3



EMERGENCY SPILLWAY CROSS-SECTION -D

1:100 @ A3

NOTES

1. REFER TO SHEET 3602 FOR WETLAND 2-2 OVERALL PLAN.

REVISION DETAILS		INT	DATE	SURVEYED	
1	FOR 90% DESIGN	AC	29/11/2024	DESIGNED	AC
2	FOR 99% SUBMISSION	AC	10/02/2025	DRAWN	AC
3	FOR FAST TRACK CONSENT	EW	21/02/2025	CHECKED	GW
				APPROVED	CD

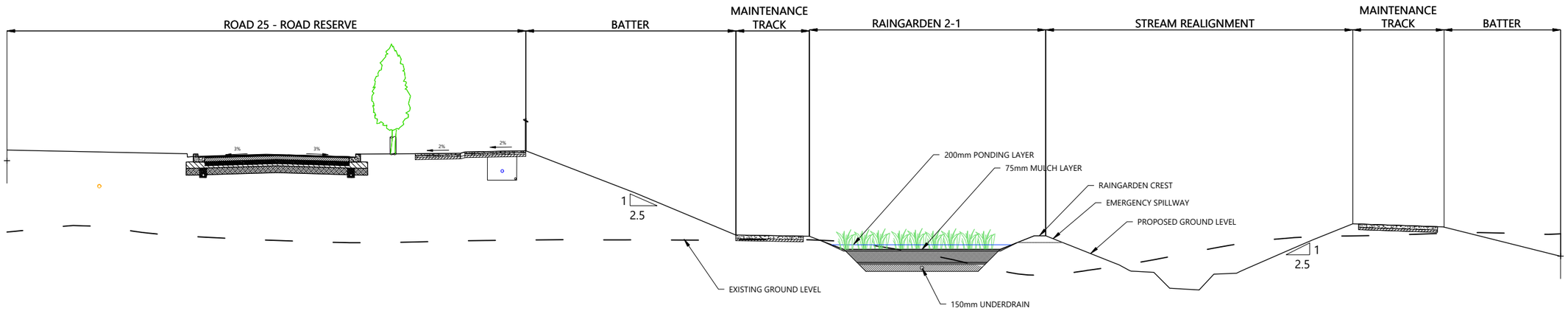
BUILDING B, LEVEL 1
8 NUGENT ST, GRAFTON,
AUCKLAND 1023
+64 9 308 9229
WOODS.CO.NZ

Kiwi Property

DRURY CENTRE-STAGE 2

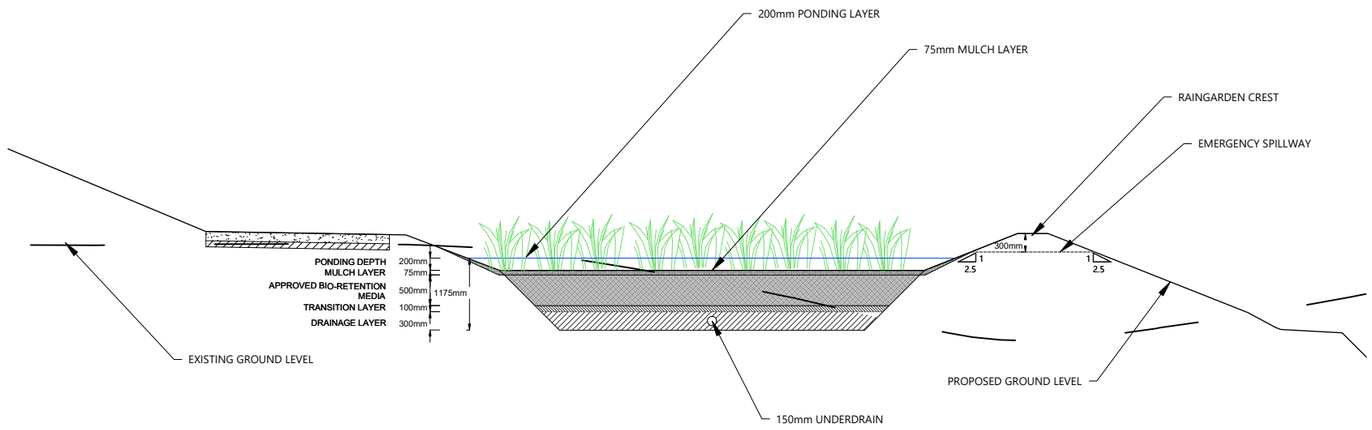
WETLAND 2-2 CROSS-SECTION PLAN

STATUS	FOR FAST TRACK CONSENT	REV
SCALE	AS SHOWN	3
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P24-447-01-3604-DR	



RAINGARDEN 2-1 CROSS-SECTION -E

1:200@A3



RAINGARDEN 2-1 DETAIL

1:100@A3

REVISION DETAILS		INT	DATE	SURVEYED	
1	FOR INFORMATION	GW	21/01/2025	DESIGNED	GW
2	FOR 99% SUBMISSION	AC	10/02/2025	DRAWN	GW
3	FOR FAST TRACK CONSENT	EW	21/02/2025	CHECKED	GW
				APPROVED	CD

BUILDING B, LEVEL 1
8 NUGENT ST, GRAFTON,
AUCKLAND 1023
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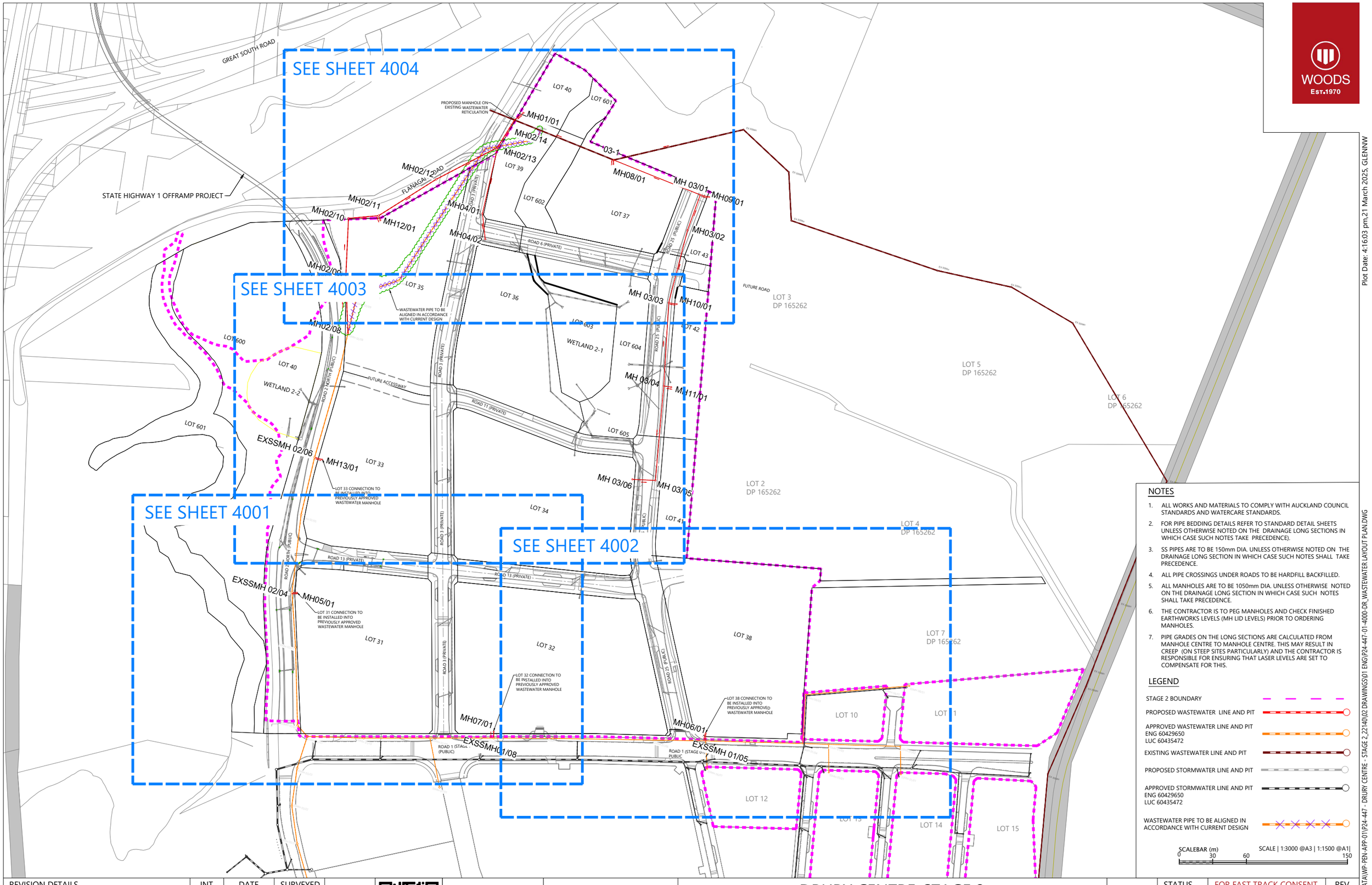
Kiwi Property

DRUNGARDEN CENTRE-STAGE 2

RAINGARDEN 2-1 CROSS-SECTION-E

STATUS	FOR FAST TRACK CONSENT	REV
SCALE	AS SHOWN	3
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P24-447-01-3605-DR	



WOODS
Est.1970

NOTES

1. ALL WORKS AND MATERIALS TO COMPLY WITH AUCKLAND COUNCIL STANDARDS AND WATERCARE STANDARDS.
2. FOR PIPE BEDDING DETAILS REFER TO STANDARD DETAIL SHEETS UNLESS OTHERWISE NOTED ON THE DRAINAGE LONG SECTIONS IN WHICH CASE SUCH NOTES TAKE PRECEDENCE).
3. SS PIPES ARE TO BE 150mm DIA. UNLESS OTHERWISE NOTED ON THE DRAINAGE LONG SECTION IN WHICH CASE SUCH NOTES SHALL TAKE PRECEDENCE.
4. ALL PIPE CROSSINGS UNDER ROADS TO BE HARDFILL BACKFILLED.
5. ALL MANHOLES ARE TO BE 1050mm DIA. UNLESS OTHERWISE NOTED ON THE DRAINAGE LONG SECTION IN WHICH CASE SUCH NOTES SHALL TAKE PRECEDENCE.
6. THE CONTRACTOR IS TO PEG MANHOLES AND CHECK FINISHED EARTHWORKS LEVELS (MH LID LEVELS) PRIOR TO ORDERING MANHOLES.
7. PIPE GRADES ON THE LONG SECTIONS ARE CALCULATED FROM MANHOLE CENTRE TO MANHOLE CENTRE. THIS MAY RESULT IN CREEP (ON STEEP SITES PARTICULARLY) AND THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT LASER LEVELS ARE SET TO COMPENSATE FOR THIS.

LEGEND

- STAGE 2 BOUNDARY
- PROPOSED WASTEWATER LINE AND PIT
- APPROVED WASTEWATER LINE AND PIT ENG 60429650 LUC 60435472
- EXISTING WASTEWATER LINE AND PIT
- PROPOSED STORMWATER LINE AND PIT
- APPROVED STORMWATER LINE AND PIT ENG 60429650 LUC 60435472
- WASTEWATER PIPE TO BE ALIGNED IN ACCORDANCE WITH CURRENT DESIGN

SCALEBAR (m) 0 30 60 150

SCALE | 1:3000 @A3 | 1:1500 @A1|

REVISION DETAILS		INT	DATE	SURVEYED	
1	ISSUED FOR 50% DESIGN	EW	22/11/2024	DESIGNED	EW
2	ISSUED FOR 90% DESIGN	EW	29/11/2024	DRAWN	EW
3	ISSUED FOR 99% SUBMISSION	EW	10/02/2025	CHECKED	GW
4	FOR FAST TRACK CONSENT	EW	21/02/2025	APPROVED	CD

BUILDING B, LEVEL 1
8 NUGENT ST, GRAFTON,
AUCKLAND 1023
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Kiwi Property

DRURY CENTRE-STAGE 2

OVERALL WASTEWATER LAYOUT PLAN

STATUS	FOR FAST TRACK CONSENT
SCALE	1:3000 @ A3
COUNCIL	AUCKLAND COUNCIL
DWG NO	P24-447-01-4000-DR
REV	4

Plot Date: 4:16:03 pm,21 March 2025, GLENNW

File: C:\12DSYNERGY\DATA\WP-PEN-APP-01\P24-447 - DRURY CENTRE - STAGE 2_22140\02 DRAWINGS\01 ENG\P24-447-01-4000-DR_WASTEWATER LAYOUT PLAN.DWG

NOTE:

1. FOR GENERAL NOTES REFER TO DRAWING P24-447-01-4000-DR

LEGEND

- STAGE 2 BOUNDARY
- PROPOSED WASTEWATER LINE AND PIT
- APPROVED WASTEWATER LINE ENG 60429650 LUC 60435472
- EXISTING WASTEWATER LINE
- PROPOSED STORMWATER LINE AND PIT
- APPROVED STORMWATER LINE ENG 60429650 LUC 60435472
- WASTEWATER PIPE TO BE ALIGNED IN ACCORDANCE WITH CURRENT DESIGN

SCALEBAR (m) 0 10 20 50

SCALE | 1:1000 @A3 | 1:500 @A1|

LOT 34

LOT 31

LOT 32

ROAD 2 NORTH (PUBLIC)

ROAD 3 (PRIVATE)

ROAD 13 (PRIVATE)

ROAD 1 (STAGE 01) (PUBLIC)

LOT 31 CONNECTION TO BE INSTALLED INTO PREVIOUSLY APPROVED WASTEWATER MANHOLE

LOT 32 CONNECTION TO BE INSTALLED INTO PREVIOUSLY APPROVED WASTEWATER MANHOLE

150mmØ 4.3m @ 1.9%

225mmØ 5.7m @ 0.7%

19.51

CP B1-2.1

CP B1-3.1

CP B1-6.2

CP B1-6.1

DCP B1-7.1

DCP B1-7.2

DCP F1-1.2

CP F1-2.2

CP F1-2.1

F1/01

F1/02

D1/01

B1/02

B1/04

B1/05

B1/06

B1/07

MH05/01

MH07/01

EXSSMH 02/04

EXSSMH01/08

SSMH 02/05

SSMH 02/03

SSMH 02/02

SSMH 02/01

SSMH 01/10

SSMH 03/23

REVISION DETAILS		INT	DATE	SURVEYED	
1	ISSUED FOR 50% DESIGN	EW	22/11/2024	DESIGNED	EW
2	ISSUED FOR 90% DESIGN	EW	29/11/2024	DRAWN	EW
3	ISSUED FOR 99% SUBMISSION	EW	10/02/2025	CHECKED	GW
4	FOR FAST TRACK CONSENT	EW	21/02/2025	APPROVED	CD

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

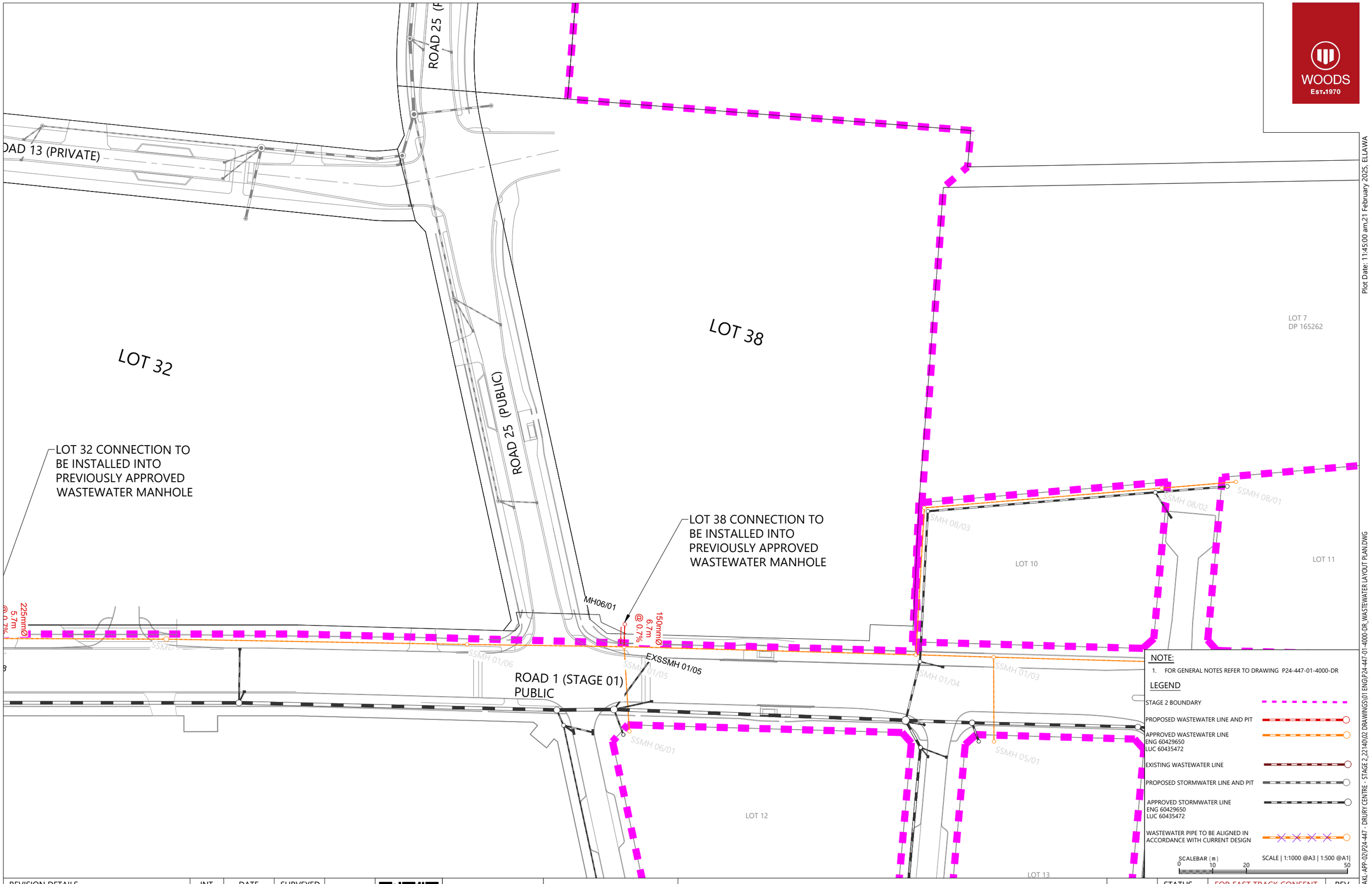
DRURY CENTRE-STAGE 2

WASTEWATER LAYOUT PLAN (SHEET 1 OF 4)

STATUS	FOR FAST TRACK CONSENT
SCALE	1:1000 @ A3
COUNCIL	AUCKLAND COUNCIL
DWG NO	P24-447-01-4001-DR
REV	4

Plot Date: 11:45:00 am,21 February 2025, ELLAWA

File: C:\12DS\DATA\WP-AKL-APP-02\P24-447 - DRURY CENTRE - STAGE 2_22140\02 DRAWINGS\01 ENG\P24-447-01-4000-DR_WASTEWATER LAYOUT PLAN.DWG



REVISION DETAILS		INT	DATE	SURVEYED	
1	ISSUED FOR 50% DESIGN	EW	22/11/2024	DESIGNED	EW
2	ISSUED FOR 90% DESIGN	EW	29/11/2024	DRAWN	EW
3	ISSUED FOR 99% SUBMISSION	EW	10/02/2025	CHECKED	GW
4	FOR FAST TRACK CONSENT	EW	21/02/2025	APPROVED	CD

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

DRURY CENTRE-STAGE 2

WASTEWATER LAYOUT PLAN (SHEET 2 OF 4)

STATUS	FOR FAST TRACK CONSENT
SCALE	1:1000 @ A3
COUNCIL	AUCKLAND COUNCIL
DWG NO	P24-447-01-4002-DR
REV	4

Plot Date: 11:45:00 am,21 February 2025, ELLAWA

File: C:\12DSDATA\WP-AKL-APP-02\P24-447 - DRURY CENTRE - STAGE 2_22140\02 DRAWINGS\01 ENG\P24-447-01-4000-DR_WASTEWATER LAYOUT PLAN.DWG

NOTE:

1. FOR GENERAL NOTES REFER TO DRAWING P24-447-01-4000-DR

LEGEND

- STAGE 2 BOUNDARY
- PROPOSED WASTEWATER LINE AND PIT
- APPROVED WASTEWATER LINE ENG 60429650 LUC 60435472
- EXISTING WASTEWATER LINE
- PROPOSED STORMWATER LINE AND PIT
- APPROVED STORMWATER LINE ENG 60429650 LUC 60435472
- WASTEWATER PIPE TO BE ALIGNED IN ACCORDANCE WITH CURRENT DESIGN

SCALEBAR (m) 0 10 20 50

SCALE | 1:1000 @A3 | 1:500 @A1|

LOT 35
LOT 36
LOT 603
WETLAND 2-1
LOT 604
LOT 605
LOT 40
WETLAND 2-2
LOT 33
LOT 34
LOT 41
ROAD 3 (PRIVATE)
ROAD 11 (PRIVATE)
ROAD 13 (PRIVATE)
ROAD 2 NORTH (PUBLIC)
ROAD 25 (PUBLIC)
FUTURE ACCESSWAY

WASTEWATER PIPE TO BE ALIGNED IN ACCORDANCE WITH CURRENT DESIGN

LOT 33 CONNECTION TO BE INSTALLED INTO PREVIOUSLY APPROVED WASTEWATER MANHOLE

375mmØ 50.3m @ 0.4%
150mmØ 74.2m @ 1.1%
150mmØ 6.7m @ 1.0%
150mmØ 84.5m @ 3.3%
150mmØ 6.9m @ 1.0%
150mmØ 20.6m @ 0.8%

GHD EX CP MH
MH02/08
B2/05
CP B2-7.1
B2/04
CP B2-1.1
B2/03
E1/01
B2/01
B2/02
WETLAND 2 2 OUTLET/02
OUTLET WETLAND 2 2 OUTLET/01
B3/02
OUTLET B3/01
EXSSMH 02/06
B1/01
DCP B1-1.1
MH13/01
B1/02
CP B1-2.1
CP B1-3.1
DCP F1-1.2
F1/01
CP F1-2.1
MH 03/04
MH11/01
MH 03/06
MH 03/05
SSMH 02/10
SSMH 02/09
SSMH 02/08
SSMH 02/07
SSMH 02/06
SSMH 02/05

REVISION DETAILS		INT	DATE	SURVEYED	
1	ISSUED FOR 50% DESIGN	EW	22/11/2024	DESIGNED	EW
2	ISSUED FOR 90% DESIGN	EW	29/11/2024	DRAWN	EW
3	ISSUED FOR 99% SUBMISSION	EW	10/02/2025	CHECKED	GW
4	FOR FAST TRACK CONSENT	EW	21/02/2025	APPROVED	CD

BUILDING B, LEVEL 1
8 NUGENT ST, GRAFTON,
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Kiwi Property

DRURY CENTRE-STAGE 2

WASTEWATER LAYOUT PLAN (SHEET 3 OF 4)

STATUS	FOR FAST TRACK CONSENT
SCALE	1:1000 @ A3
COUNCIL	AUCKLAND COUNCIL
DWG NO	P24-447-01-4003-DR
REV	4

Plot Date: 11:45:01 am,21 February 2025, ELLAWA

File: C:\12DSDATA\WP-AKL-APP-02\P24-447 - DRURY CENTRE - STAGE 2_22140\02 DRAWINGS\01 ENG\P24-447-01-4000-DR_WASTEWATER LAYOUT PLAN.DWG

NOTE:

1. FOR GENERAL NOTES REFER TO DRAWING P24-447-01-4000-DR

LEGEND

- STAGE 2 BOUNDARY
- PROPOSED WASTEWATER LINE AND PIT
- APPROVED WASTEWATER LINE ENG 60429650 LUC 60435472
- EXISTING WASTEWATER LINE
- PROPOSED STORMWATER LINE AND PIT
- APPROVED STORMWATER LINE ENG 60429650 LUC 60435472
- WASTEWATER PIPE TO BE ALIGNED IN ACCORDANCE WITH CURRENT DESIGN

SCALEBAR (m) 0 10 20 50

SCALE | 1:1000 @A3 | 1:500 @A1|

WOODS EST.1970

PROPOSED MANHOLE ON EXISTING WASTEWATER RETICULATION

FLANAGAN ROAD

ROAD 3 (PRIVATE)

ROAD 6 (PRIVATE)

ROAD 25 (PUBLIC)

LOT 40

LOT 601

LOT 39

LOT 602

LOT 37

LOT 43

LOT 35

LOT 36

LOT 603

LOT 42

SSMH

EX SSMH

GHD EX CP MH

GIS 3000084490

GIS 3000084492

MH01/01

MH02/14

MH02/13

MH02/12

MH02/11

MH02/10

MH02/09

MH02/08

MH12/01

MH04/01

MH04/02

03-1

MH08/01

MH 03/01

MH09/01

MH03/02

MH 03/03

MH10/01

150mmØ 10.2m @ 0.8%

375mmØ 28.7m @ 5.3%

375mmØ 61.7m @ 2.0%

375mmØ 60.7m @ 0.4%

375mmØ 27.0m @ 0.4%

225mmØ @ 2.5% 4.3m

375mmØ 52.2m @ 0.4%

375mmØ 50.3m @ 0.4%

150mmØ 60.5m @ 0.8%

150mmØ 22.8m @ 0.8%

150mmØ 3.7m @ 1.1%

150mmØ 83.2m @ 1.3%

150mmØ 8.1m @ 1.0%

150mmØ 33.6m @ 1.0%

150mmØ 66.8m @ 1.0%

150mmØ 7.2m @ 4.0%

WASTEWATER PIPE TO BE ALIGNED IN ACCORDANCE WITH CURRENT DESIGN

REVISION DETAILS		INT	DATE	SURVEYED	
1	ISSUED FOR 50% DESIGN	EW	22/11/2024	DESIGNED	EW
2	ISSUED FOR 90% DESIGN	EW	29/11/2024	DRAWN	EW
3	ISSUED FOR 99% SUBMISSION	EW	10/02/2025	CHECKED	GW
4	FOR FAST TRACK CONSENT	EW	21/02/2025	APPROVED	CD

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

Kiwi Property

DRURY CENTRE-STAGE 2

WASTEWATER LAYOUT PLAN (SHEET 4 OF 4)

N

STATUS	FOR FAST TRACK CONSENT
SCALE	1:1000 @ A3
COUNCIL	AUCKLAND COUNCIL
DWG NO	P24-447-01-4004-DR
REV	4

Plot Date: 11:45:01 am,21 February 2025, ELLAWA

File: C:\12DS\DATA\WP-AKL-APP-02\P24-447 - DRURY CENTRE - STAGE 2_22140\02 DRAWINGS\01 ENG\P24-447-01-4000-DR_WASTEWATER LAYOUT PLAN DWG

NOTES:

1) PIPE LENGTHS MEASURED FROM MANHOLE CENTRE TO MANHOLE CENTRE.
2) WHERE MINIMUM VERTICAL CLEARANCE AS PER WASTEWATER CODE OF PRACTICE TABLE 5.6 IS NOT ACHIEVED, HARDFILL BACKFILL MUST BE USED BETWEEN THE CLASHES.
3) LANDING PLATFORMS TO BE GALVANISED STEEL WEBFORCE GRATING PLATFORM WITH OPENING HATCH AS PER WATERCARE DRAWING #2000244.015
4) MANHOLES OVER 1200mmØ TO HAVE GALVANISED LADDERS FOR ACCESS

LEGEND:

- EXISTING SURFACE
- PROPOSED SURFACE
- STORMWATER PIPE
- HARDFILL BACKFILL

PIPE DIAMETER		150Ø		
PIPE TYPE		UPVC SN16		
PIPE GRADE		0.79%		
DATUM RL=	-9.00			
DEPTH TO INVERT	1.16		1.88	5.56
INVERT LEVEL	7.06		6.98	3.30
MANHOLE LID LEVEL	8.22			8.86
CHAINAGE/ LENGTH	0	10.16		10.16

01

PIPE DIAMETER		375Ø			375Ø			375Ø			375Ø			375Ø				375Ø		
PIPE TYPE		UPVC SN16			UPVC SN16			UPVC SN16			UPVC SN16			UPVC SN16				UPVC SN16		
PIPE GRADE		0.42%			0.40%			0.41%			0.41%			1.98%				5.30%		
DATUM RL=	-3.00																			
DEPTH TO INVERT	5.98		6.04	6.07		2.98	3.06		4.00	4.03		2.53	2.56			3.13	3.18		1.47	5.56
INVERT LEVEL	11.13		10.92	10.89		10.68	10.60		10.49	10.46		10.21	10.18		9.25	8.96	8.91		7.39	3.30
MANHOLE LID LEVEL	17.11			16.96			13.66			14.49			12.74				12.09			8.86
CHAINAGE/ LENGTH	-17.2	50.29		33.09	52.24		85.33	27		112.34	60.7		173.03	61.71	219.73		234.74	28.67		263.41

02

PIPE DIAMETER			150Ø		
PIPE TYPE			UPVC SN16		
PIPE GRADE			0.78%		
DATUM RL=	2.00				
DEPTH TO INVERT	4.84			5.01	
INVERT LEVEL	15.26	15.22		15.10	
MANHOLE LID LEVEL	20.10				20.11
CHAINAGE/ LENGTH	0	5.77	20.56		20.56

03

REVISION DETAILS		INT	DATE	SURVEYED	
1	FOR DISCUSSION	EW	09/12/2024	DESIGNED	EW
2	FOR THE 99% SUBMISSION	EW	10/02/2025	DRAWN	EW
3	FOR FAST TRACK CONSENT	EW	21/02/2025	CHECKED	JK
				APPROVED	GW

WOODS EST.1970

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

Kiwi Property

DRURY CENTRE-STAGE 2

WASTEWATER LONGSECTION (SHEET 1 OF 4)

STATUS	FOR FAST TRACK CONSENT	REV
SCALE	H 1:1000 @ A3 V 1:200 @ A3	3
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P24-447-01-4500-DR	

Plot Date: 9:00:31 am,28 February 2025, ELLAWA
File: C:\12D\DATA\WP-AKL-APP-02\P24-447 - DRURY CENTRE - STAGE 2_22140\02 DRAWINGS\01 ENG\P24-447-01-4500-DR_WASTEWATER LONGSECTION.DWG

NOTES:

1) PIPE LENGTHS MEASURED FROM MANHOLE CENTRE TO MANHOLE CENTRE.
2) WHERE MINIMUM VERTICAL CLEARANCE AS PER WASTEWATER CODE OF PRACTICE TABLE 5.6 IS NOT ACHIEVED, HARDFILL BACKFILL MUST BE USED BETWEEN THE CLASHES.
3) LANDING PLATFORMS TO BE GALVANISED STEEL WEBFORCE GRATING PLATFORM WITH OPENING HATCH AS PER WATERCARE DRAWING #2000244.015
4) MANHOLES OVER 1200mmØ TO HAVE GALVANISED LADDERS FOR ACCESS

LEGEND:

- EXISTING SURFACE
- PROPOSED SURFACE
- STORMWATER PIPE
- HARDFILL BACKFILL

	MH 03/05		MH 03/04					MH 03/03			MH03/02		MH 03/01		EXSSMH
PIPE DIAMETER		150Ø					150Ø		150Ø			150Ø		150Ø	
PIPE TYPE		UPVC SN16					UPVC SN16		UPVC SN16			UPVC SN16		UPVC SN16	
PIPE GRADE		3.30%					1.13%		1.00%			1.04%		1.30%	
DATUM RL=	-4.00														
DEPTH TO INVERT	5.01 5.09		1.77 1.80					2.10 2.13			3.16 3.19		3.74 3.82		3.19 8.86
INVERT LEVEL	15.10 15.02		12.23 12.20	12.05	12.01	11.99		11.36 11.33		10.87	10.66 10.63		10.28 10.20		9.12 3.45
MANHOLE LID LEVEL	20.11		14.00					13.46			13.82		14.02		12.31
CHAINAGE/ LENGTH	20.56	84.54	105.1	119.08	122.54	123.72	74.25	179.35	66.75	224.65	246.1	33.61	279.71	83.2	362.92

03

REVISION DETAILS		INT	DATE		
				SURVEYED	
1	FOR DISCUSSION	EW	09/12/2024	DESIGNED	EW
2	FOR THE 99% SUBMISSION	EW	10/02/2025	DRAWN	EW
3	FOR FAST TRACK CONSENT	EW	21/02/2025	CHECKED	JK
				APPROVED	GW

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

Kiwi Property

DRURY CENTRE-STAGE 2

WASTEWATER LONGSECTION (SHEET 2 OF 4)

STATUS	FOR FAST TRACK CONSENT	REV
SCALE	H 1:1000 @ A3 V 1:200 @ A3	3
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P24-447-01-4501-DR	

Plot Date: 11:45:02 am,21 February 2025, ELLAWA
File: C:\12DS\DATA\WP-AKL-APP-02\P24-447 - DRURY CENTRE - STAGE 2_22140\02 DRAWINGS\01 ENG\P24-447-01-4500-DR_WASTEWATER LONGSECTION.DWG

NOTES:

1) PIPE LENGTHS MEASURED FROM MANHOLE CENTRE TO MANHOLE CENTRE.
2) WHERE MINIMUM VERTICAL CLEARANCE AS PER WASTEWATER CODE OF PRACTICE TABLE 5.6 IS NOT ACHIEVED, HARDFILL BACKFILL MUST BE USED BETWEEN THE CLASHES.
3) LANDING PLATFORMS TO BE GALVANISED STEEL WEBFORCE GRATING PLATFORM WITH OPENING HATCH AS PER WATERCARE DRAWING #2000244.015
4) MANHOLES OVER 1200mmØ TO HAVE GALVANISED LADDERS FOR ACCESS

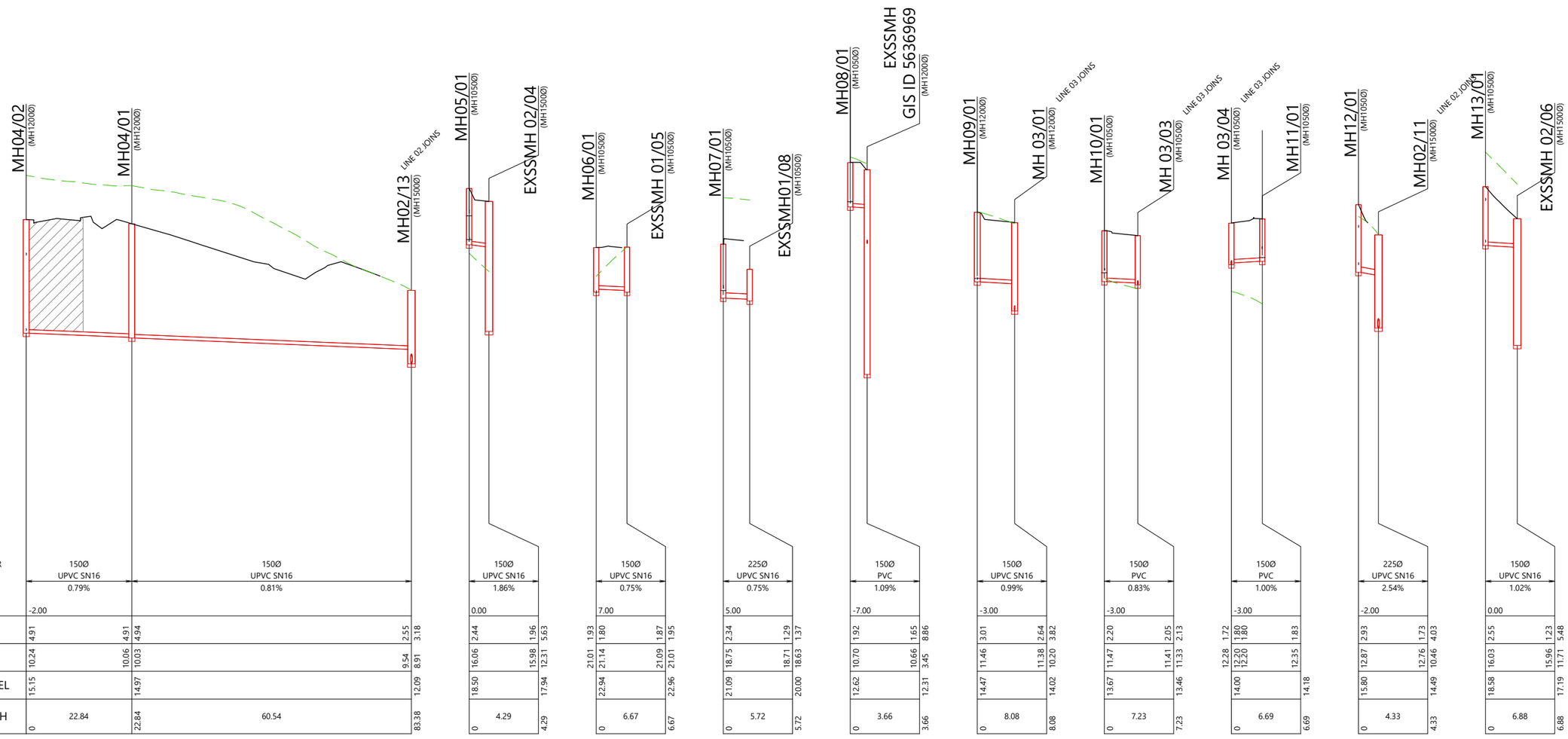
LEGEND:

EXISTING SURFACE

PROPOSED SURFACE

STORMWATER PIPE

HARDFILL BACKFILL



	04			05	06	07	08	09	10	11	12	13
PIPE DIAMETER	150Ø	150Ø		150Ø	150Ø	225Ø	150Ø	150Ø	150Ø	150Ø	225Ø	150Ø
PIPE TYPE	UPVC SN16	UPVC SN16		UPVC SN16	UPVC SN16	UPVC SN16	PVC	UPVC SN16	PVC	PVC	UPVC SN16	UPVC SN16
PIPE GRADE	0.79%	0.81%		1.86%	0.75%	0.75%	1.09%	0.99%	0.83%	1.00%	2.54%	1.02%
DATUM RL=	-2.00			0.00	7.00	5.00	-7.00	-3.00	-3.00	-3.00	-2.00	0.00
DEPTH TO INVERT	4.91	4.91	2.55 3.18	2.44 1.96 5.63	1.93 1.80 1.87 1.95	2.34 1.29 1.37	1.92 1.65 8.86	3.01 2.64 3.82	2.20 2.05 2.13	1.72 1.80 1.80 1.83	2.93 1.73 4.03	2.55 1.23 5.48
INVERT LEVEL	10.24	10.06	9.54 8.91	16.06 15.98 12.31	21.01 21.14 21.09 21.01	18.75 18.71 18.63	10.70 10.66 3.45	11.46 11.38 10.20	11.47 11.41 11.33	12.20 12.20 12.35	12.87 12.76 10.46	16.03 15.96 11.71
MANHOLE LID LEVEL	15.15	14.97	12.09	18.50 17.94	22.94 22.96	21.09 20.00	12.62 12.31	14.47 14.02	13.67 13.46	14.00 14.18	15.80 14.49	18.58 17.19
CHAINAGE/ LENGTH	0 22.84	22.84 60.54	83.38	0 4.29 4.29	0 6.67 6.67	0 5.72 5.72	0 3.66 3.66	0 8.08 8.08	0 7.23 7.23	0 6.69 6.69	0 4.33 4.33	0 6.88 6.88

REVISION DETAILS		INT	DATE	SURVEYED	
1	FOR DISCUSSION	EW	09/12/2024	DESIGNED	EW
2	FOR THE 99% SUBMISSION	EW	10/02/2025	DRAWN	EW
3	FOR FAST TRACK CONSENT	EW	21/02/2025	CHECKED	JK
				APPROVED	GW

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

Kiwi Property

DRURY CENTRE-STAGE 2

WASTEWATER LONGSECTION (SHEET 3 OF 4)

STATUS	FOR FAST TRACK CONSENT
SCALE	H 1:1000 @ A3 V 1:200 @ A3
COUNCIL	AUCKLAND COUNCIL
DWG NO	P24-447-01-4502-DR
REV	3

Plot Date: 11:45:02 am,21 February 2025, ELLAWA

File: C:\12DSDATA\WP-AKL-APP-02\P24-447 - DRURY CENTRE - STAGE 2_22140\02 DRAWINGS\01 ENG\P24-447-01-4500-DR_WASTEWATER LONGSECTION.DWG

NOTES:

1) PIPE LENGTHS MEASURED FROM MANHOLE CENTRE TO MANHOLE CENTRE.
2) WHERE MINIMUM VERTICAL CLEARANCE AS PER WASTEWATER CODE OF PRACTICE TABLE 5.6 IS NOT ACHIEVED, HARDFILL BACKFILL MUST BE USED BETWEEN THE CLASHES.
3) LANDING PLATFORMS TO BE GALVANISED STEEL WEBFORCE GRATING PLATFORM WITH OPENING HATCH AS PER WATERCARE DRAWING #2000244.015
4) MANHOLES OVER 1200mmØ TO HAVE GALVANISED LADDERS FOR ACCESS

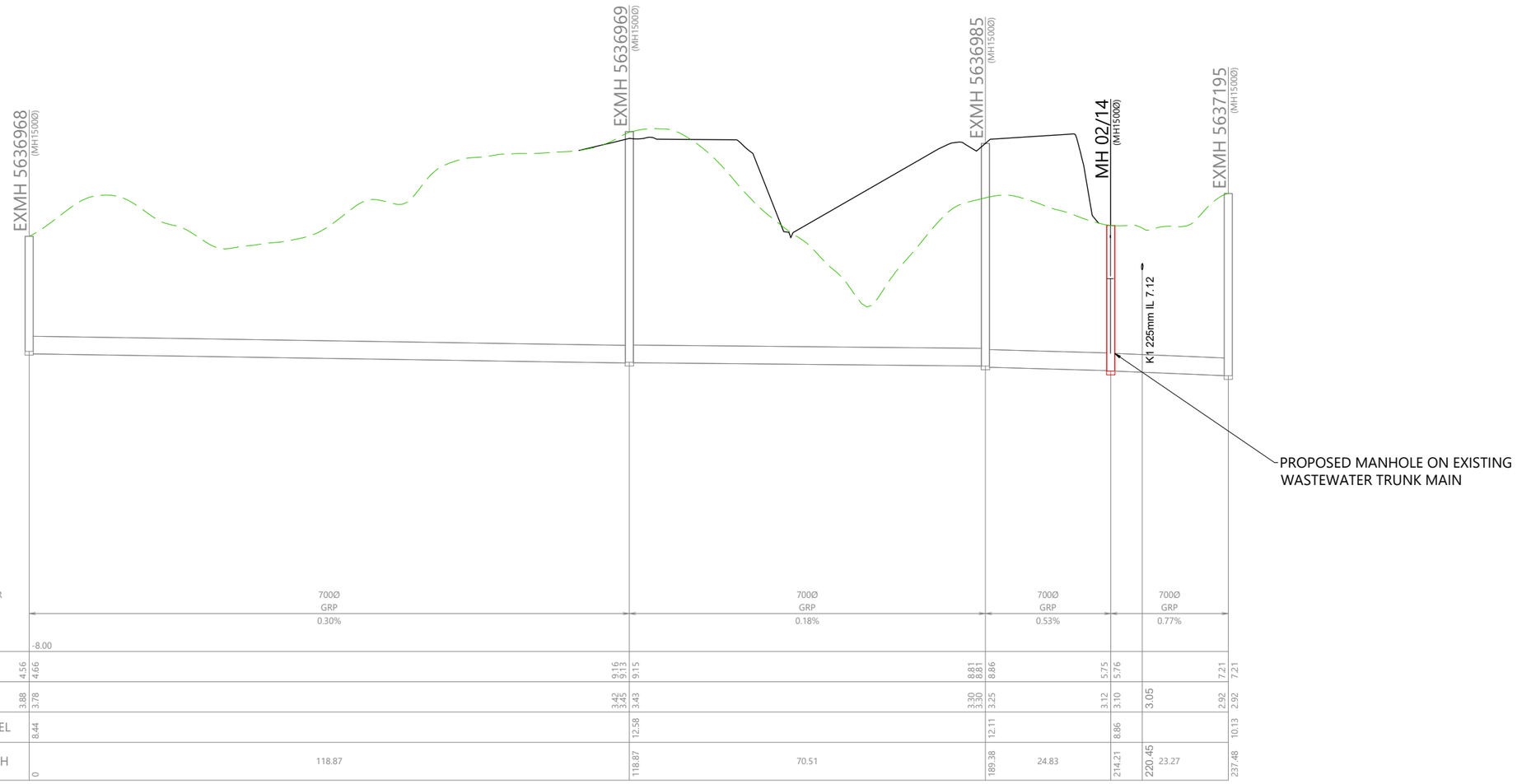
LEGEND:

EXISTING SURFACE

PROPOSED SURFACE

STORMWATER PIPE

HARDFILL BACKFILL



PIPE DIAMETER		700Ø	700Ø	700Ø	700Ø
PIPE TYPE		GRP	GRP	GRP	GRP
PIPE GRADE		0.30%	0.18%	0.53%	0.77%
DATUM RL=	-8.00				
DEPTH TO INVERT	4.56 4.66	9.16 9.13	9.15	8.81 8.81 8.86	5.75 5.76	7.21 7.21
INVERT LEVEL	3.88 3.78	3.42 3.45	3.43	3.30 3.30 3.25	3.12 3.10	3.05 2.92 2.92
MANHOLE LID LEVEL	8.44	12.58		12.11	8.86	10.13
CHAINAGE/ LENGTH	0	118.87	118.87	70.51	189.38 24.83	214.21 220.45 23.27 237.48

EX

REVISION DETAILS		INT	DATE	SURVEYED	
1	FOR DISCUSSION	EW	09/12/2024	DESIGNED	EW
2	FOR THE 99% SUBMISSION	EW	10/02/2025	DRAWN	EW
3	FOR FAST TRACK CONSENT	EW	21/02/2025	CHECKED	JK
				APPROVED	GW

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

Kiwi Property

DRURY CENTRE-STAGE 2

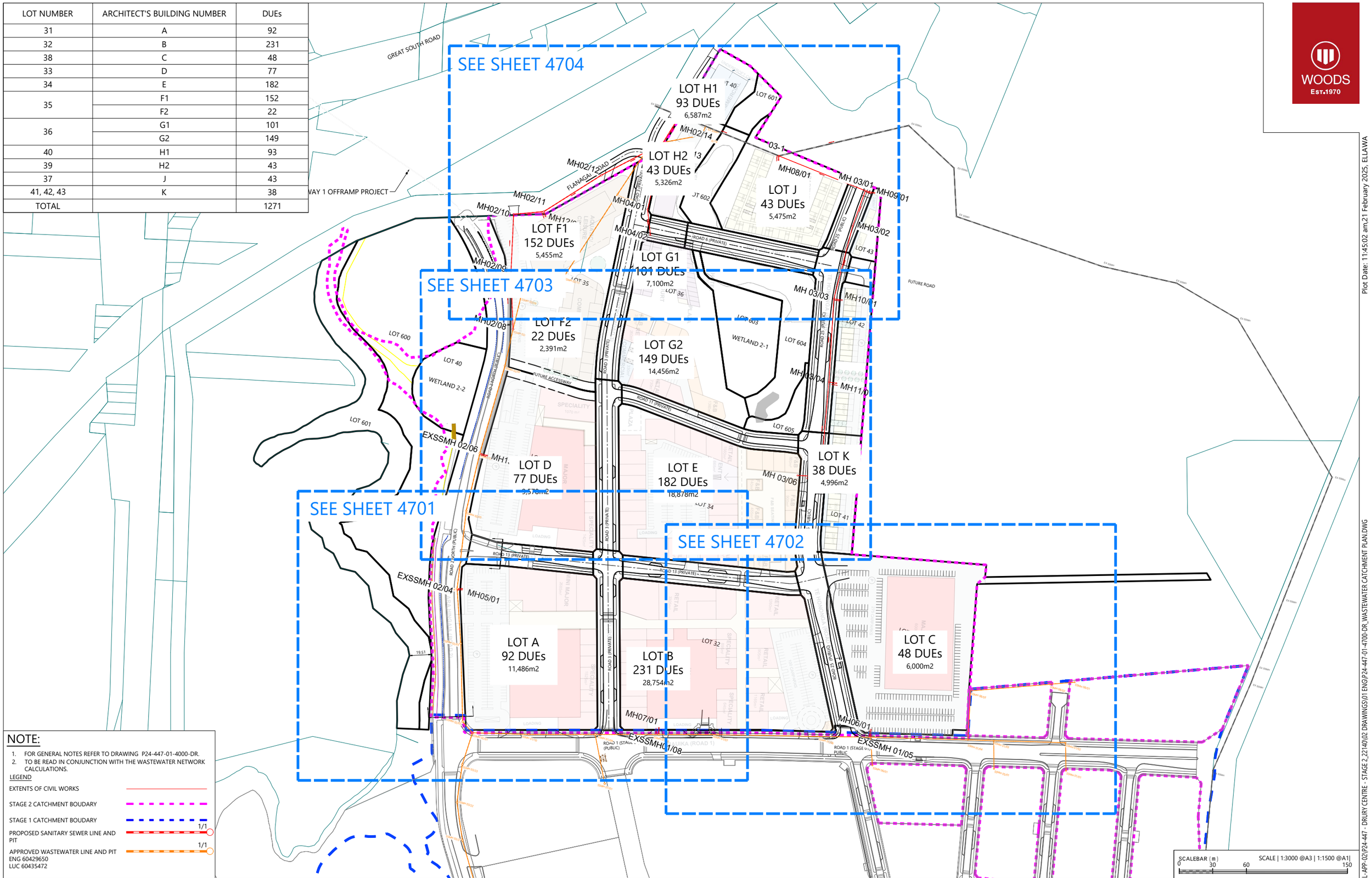
WASTEWATER LONGSECTION (SHEET 4 OF 4)

STATUS	FOR FAST TRACK CONSENT	REV
SCALE	H 1:1000 @ A3 V 1:200 @ A3	3
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P24-447-01-4503-DR	

Plot Date: 11:45:02 am,21 February 2025, ELLAWA

File: C:\2DS\DATA\WP-AKL-APP-02\P24-447 - DRURY CENTRE - STAGE 2_22140\02 DRAWINGS\01 ENG\P24-447-01-4500-DR_WASTEWATER LONGSECTION.DWG

LOT NUMBER	ARCHITECT'S BUILDING NUMBER	DUEs
31	A	92
32	B	231
38	C	48
33	D	77
34	E	182
35	F1	152
	F2	22
36	G1	101
	G2	149
40	H1	93
39	H2	43
37	J	43
41, 42, 43	K	38
TOTAL		1271



NOTE:

1. FOR GENERAL NOTES REFER TO DRAWING P24-447-01-4000-DR.
2. TO BE READ IN CONJUNCTION WITH THE WASTEWATER NETWORK CALCULATIONS.

LEGEND

- EXTENTS OF CIVIL WORKS
- STAGE 2 CATCHMENT BOUDARY
- STAGE 1 CATCHMENT BOUDARY
- PROPOSED SANITARY SEWER LINE AND PIT 1/1
- APPROVED WASTEWATER LINE AND PIT 1/1
  ENG 60429650
  LUC 60435472

SCALEBAR (m) 0 30 60 150 SCALE | 1:3000 @A3 | 1:1500 @A1|

REVISION DETAILS		INT	DATE	SURVEYED	
1	ISSUED FOR DISCUSSION	EW	04/12/2024	DESIGNED	EW
2	ISSUED FOR 99% SUBMISSION	EW	10/02/2025	DRAWN	EW
3	FOR FAST TRACK CONSENT	EW	21/02/2025	CHECKED	GW
				APPROVED	CD

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

Kiwi Property

DRURY CENTRE-STAGE 2

OVERALL WASTEWATER CATCHMENT LAYOUT PLAN

STATUS	FOR FAST TRACK CONSENT
SCALE	1:3000 @ A3
COUNCIL	AUCKLAND COUNCIL
DWG NO	P24-447-01-4700-DR
REV	3

Plot Date: 11:45:02 am,21 February 2025, ELLAWA

File: C:\12DS\DATA\WP-AKL-APP-02\P24-447 - DRURY CENTRE - STAGE 2_22140\02 DRAWINGS\01 ENG\P24-447-01-4700-DR_WASTEWATER CATCHMENT PLAN.DWG

NOTE:

1. FOR GENERAL NOTES REFER TO DRAWING P24-447-01-4000-DR.
2. TO BE READ IN CONJUNCTION WITH THE WASTEWATER NETWORK CALCULATIONS.

LEGEND

- EXTENTS OF CIVIL WORKS
- STAGE 2 CATCHMENT BOUDARY
- STAGE 1 CATCHMENT BOUDARY
- PROPOSED SANITARY SEWER LINE AND PIT 1/1
- APPROVED WASTEWATER LINE AND PIT 1/1
  ENG 60429650
  LUC 60435472

LOT NUMBER	ARCHITECT'S BUILDING NUMBER	DUEs
31	A	92
32	B	231
38	C	48
33	D	77
34	E	182
35	F1	152
	F2	22
36	G1	101
	G2	149
40	H1	93
39	H2	43
37	J	43
41, 42, 43	K	38
TOTAL		1271

REVISION DETAILS		INT	DATE	SURVEYED	
1	ISSUED FOR DISCUSSION	EW	04/12/2024	DESIGNED	EW
2	ISSUED FOR 99% SUBMISSION	EW	10/02/2025	DRAWN	EW
3	FOR FAST TRACK CONSENT	EW	21/02/2025	CHECKED	GW
				APPROVED	CD

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

Kiwi Property

DRURY CENTRE-STAGE 2

WASTEWATER CATCHMENT PLAN (SHEET 1 OF 4)

STATUS	FOR FAST TRACK CONSENT
SCALE	1:1000 @ A3
COUNCIL	AUCKLAND COUNCIL
DWG NO	P24-447-01-4701-DR
REV	3

Plot Date: 11:50:00 am,21 February 2025, ELLAWA
File: C:\12DS\DATA\WP-AKL-APP-02\P24-447 - DRURY CENTRE - STAGE 2_22140\02 DRAWINGS\01 ENG\P24-447-01-4700-DR_WASTEWATER CATCHMENT PLAN.DWG

NOTE:

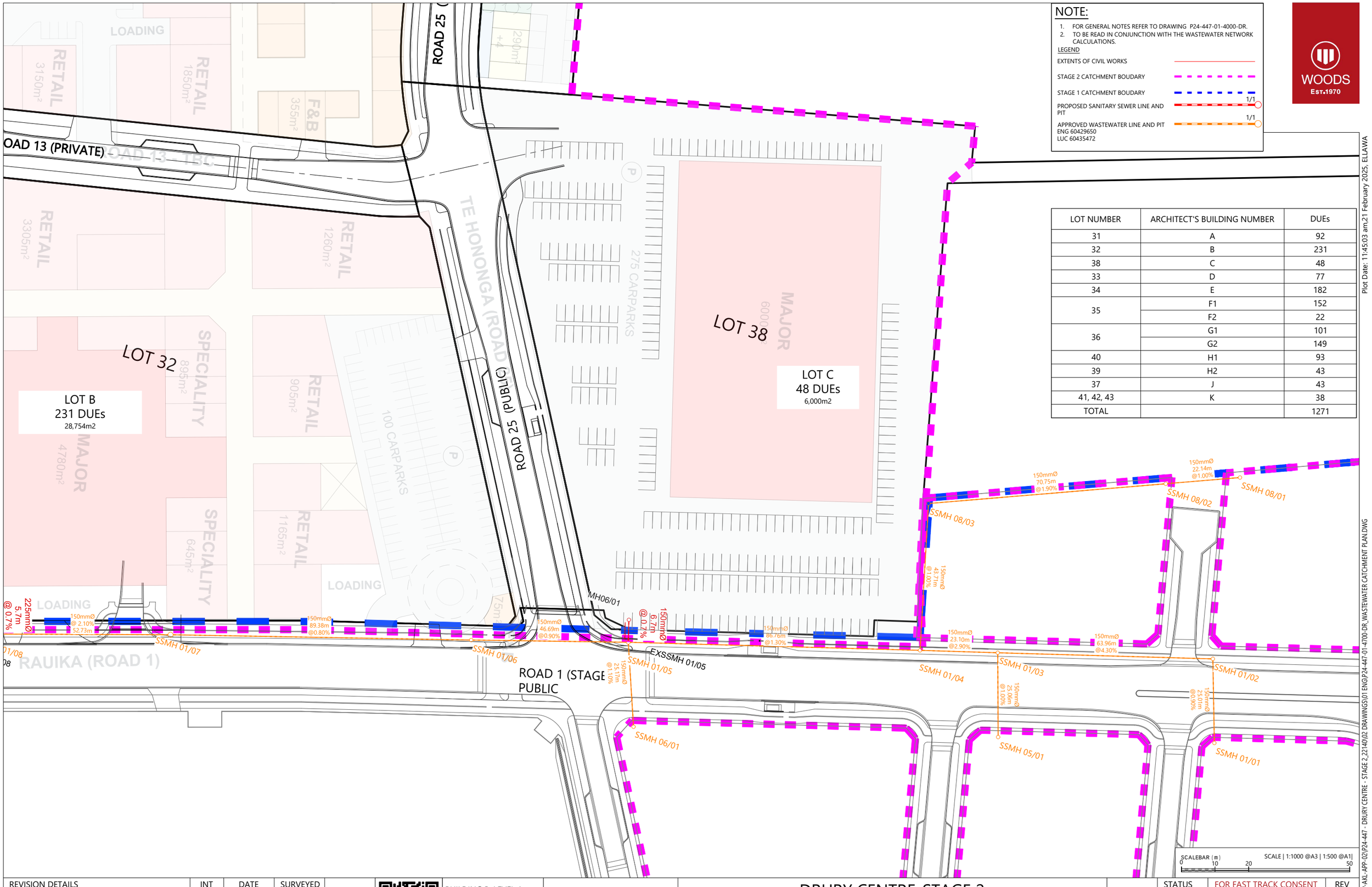
1. FOR GENERAL NOTES REFER TO DRAWING P24-447-01-4000-DR.
2. TO BE READ IN CONJUNCTION WITH THE WASTEWATER NETWORK CALCULATIONS.

LEGEND

- EXTENTS OF CIVIL WORKS
- STAGE 2 CATCHMENT BOUDARY
- STAGE 1 CATCHMENT BOUDARY
- PROPOSED SANITARY SEWER LINE AND PIT 1/1
- APPROVED WASTEWATER LINE AND PIT 1/1
  ENG 60429650
  LUC 60435472

WOODS Est.1970

LOT NUMBER	ARCHITECT'S BUILDING NUMBER	DUEs
31	A	92
32	B	231
38	C	48
33	D	77
34	E	182
35	F1	152
	F2	22
36	G1	101
	G2	149
40	H1	93
39	H2	43
37	J	43
41, 42, 43	K	38
TOTAL		1271



REVISION DETAILS		INT	DATE	SURVEYED	
1	ISSUED FOR DISCUSSION	EW	04/12/2024	DESIGNED	EW
2	ISSUED FOR 99% SUBMISSION	EW	10/02/2025	DRAWN	EW
3	FOR FAST TRACK CONSENT	EW	21/02/2025	CHECKED	GW
				APPROVED	CD

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

Kiwi Property

DRURY CENTRE-STAGE 2

WASTEWATER CATCHMENT PLAN (SHEET 2 OF 4)

		REV
STATUS	FOR FAST TRACK CONSENT	3
SCALE	1:1000 @ A3	
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P24-447-01-4702-DR	

Plot Date: 11:45:03 am,21 February 2025, ELLAWA

File: C:\12DSDATA\WP-AKL-APP-02\P24-447 - DRURY CENTRE - STAGE 2_22140\02 DRAWINGS\01 ENG\P24-447-01-4700-DR_WASTEWATER CATCHMENT PLAN.DWG

NOTE:

1. FOR GENERAL NOTES REFER TO DRAWING P24-447-01-4000-DR.
2. TO BE READ IN CONJUNCTION WITH THE WASTEWATER NETWORK CALCULATIONS.

LEGEND

- EXTENTS OF CIVIL WORKS
- STAGE 2 CATCHMENT BOUNDARY
- STAGE 1 CATCHMENT BOUNDARY
- PROPOSED SANITARY SEWER LINE AND PIT
- APPROVED WASTEWATER LINE AND PIT ENG 60429650 LUC 60435472

LOT NUMBER	ARCHITECT'S BUILDING NUMBER	DUEs
31	A	92
32	B	231
38	C	48
33	D	77
34	E	182
35	F1	152
	F2	22
36	G1	101
	G2	149
40	H1	93
39	H2	43
37	J	43
41, 42, 43	K	38
TOTAL		1271

REVISION DETAILS		INT	DATE	SURVEYED	
1	ISSUED FOR DISCUSSION	EW	04/12/2024	DESIGNED	EW
2	ISSUED FOR 99% SUBMISSION	EW	10/02/2025	DRAWN	EW
3	FOR FAST TRACK CONSENT	EW	21/02/2025	CHECKED	GW
				APPROVED	CD

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

Kiwi Property

DRURY CENTRE-STAGE 2

WASTEWATER CATCHMENT PLAN (SHEET 3 OF 4)

STATUS	FOR FAST TRACK CONSENT
SCALE	1:1000 @ A3
COUNCIL	AUCKLAND COUNCIL
DWG NO	P24-447-01-4703-DR
REV	3

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

Plot Date: 11:45:04 am,21 February 2025, ELLAWA

File: C:\12DS\DATA\WP-AKL-APP-02\P24-447 - DRURY CENTRE - STAGE 2_22140\02 DRAWINGS\01 ENG\P24-447-01-4700-DR_WASTEWATER CATCHMENT PLAN.DWG

LOT NUMBER	ARCHITECT'S BUILDING NUMBER	DUEs
31	A	92
32	B	231
38	C	48
33	D	77
34	E	182
35	F1	152
	F2	22
36	G1	101
	G2	149
40	H1	93
39	H2	43
37	J	43
41, 42, 43	K	38
TOTAL		1271

NOTE:

1. FOR GENERAL NOTES REFER TO DRAWING P24-447-01-4000-DR.
2. TO BE READ IN CONJUNCTION WITH THE WASTEWATER NETWORK CALCULATIONS.

LEGEND

EXTENTS OF CIVIL WORKS

STAGE 2 CATCHMENT BOUDARY

STAGE 1 CATCHMENT BOUDARY

PROPOSED SANITARY SEWER LINE AND PIT 1/1

APPROVED WASTEWATER LINE AND PIT 1/1
ENG 60429650
LUC 60435472

WOODS EST.1970

LOT 40
LOT H1
93 DUEs
6,587m2

LOT 601

LOT 602

LOT H2
43 DUEs
5,326m2

LOT J
43 DUEs
5,475m2

LOT 37

LOT F1
152 DUEs
5,455m2

LOT F2
22 DUEs
2,391m2

LOT 35

LOT G1
101 DUEs
7,100m2

LOT 36

LOT 603

LOT 604

LOT 43

LOT 42

FLANAGAN ROAD

ROAD 3 (PRIVATE)

ROAD 6 (PRIVATE)

ROAD 25 (PUBLIC)

EX SSMH

MH01/01

MH02/14

MH02/13

MH02/12

MH02/11

MH02/10

MH12/01

MH02/09

MH02/08

MH04/01

MH04/02

03-1

MH08/01

MH 03/01

MH09/01

MH03/02

MH 03/03

MH10/01

150mmØ 10.2m @ 0.8%

375mmØ 28.7m @ 5.3%

375mmØ 61.7m @ 2.0%

375mmØ 60.7m @ 0.4%

375mmØ 27.0m @ 0.4%

375mmØ 52.2m @ 0.4%

375mmØ 50.3m @ 0.4%

150mmØ 60.5m @ 0.8%

150mmØ 22.8m @ 0.8%

150mmØ 83.2m @ 1.3%

150mmØ 3.7m @ 1.1%

150mmØ 33.6m @ 1.0%

150mmØ 66.8m @ 1.0%

150mmØ 8.1m @ 1.0%

150mmØ 7.2m @ 4.0%

150mmØ 74.2m

225mmØ @ 2.5% 4.3m

375mmØ 47.00m @2.60%

375mmØ 8.61m @0.40%

375mmØ 32.61m @0.40%

375mmØ 32.26m @0.40%

375mmØ 7.37m @0.40%

375mmØ 7.20m @0.40%

SSMH 02/14

SSMH 02/13

SSMH 02/12

SSMH 02/11

SSMH 02/10

SSMH 02/09

SSMH 02/08

SCALEBAR (m) 0 10 20 50

SCALE | 1:1000 @A3 | 1:500 @A1|

Plot Date: 11:45:05 am,21 February 2025, ELLAWA

File: C:\2DS\DATA\WP-AKL-APP-02\P24-447 - DRURY CENTRE - STAGE 2_22140\02 DRAWINGS\01 ENG\P24-447-01-4700-DR_WASTEWATER CATCHMENT PLAN.DWG

REVISION DETAILS		INT	DATE	SURVEYED	
1	ISSUED FOR DISCUSSION	EW	04/12/2024	DESIGNED	EW
2	ISSUED FOR 99% SUBMISSION	EW	10/02/2025	DRAWN	EW
3	FOR FAST TRACK CONSENT	EW	21/02/2025	CHECKED	GW
				APPROVED	CD

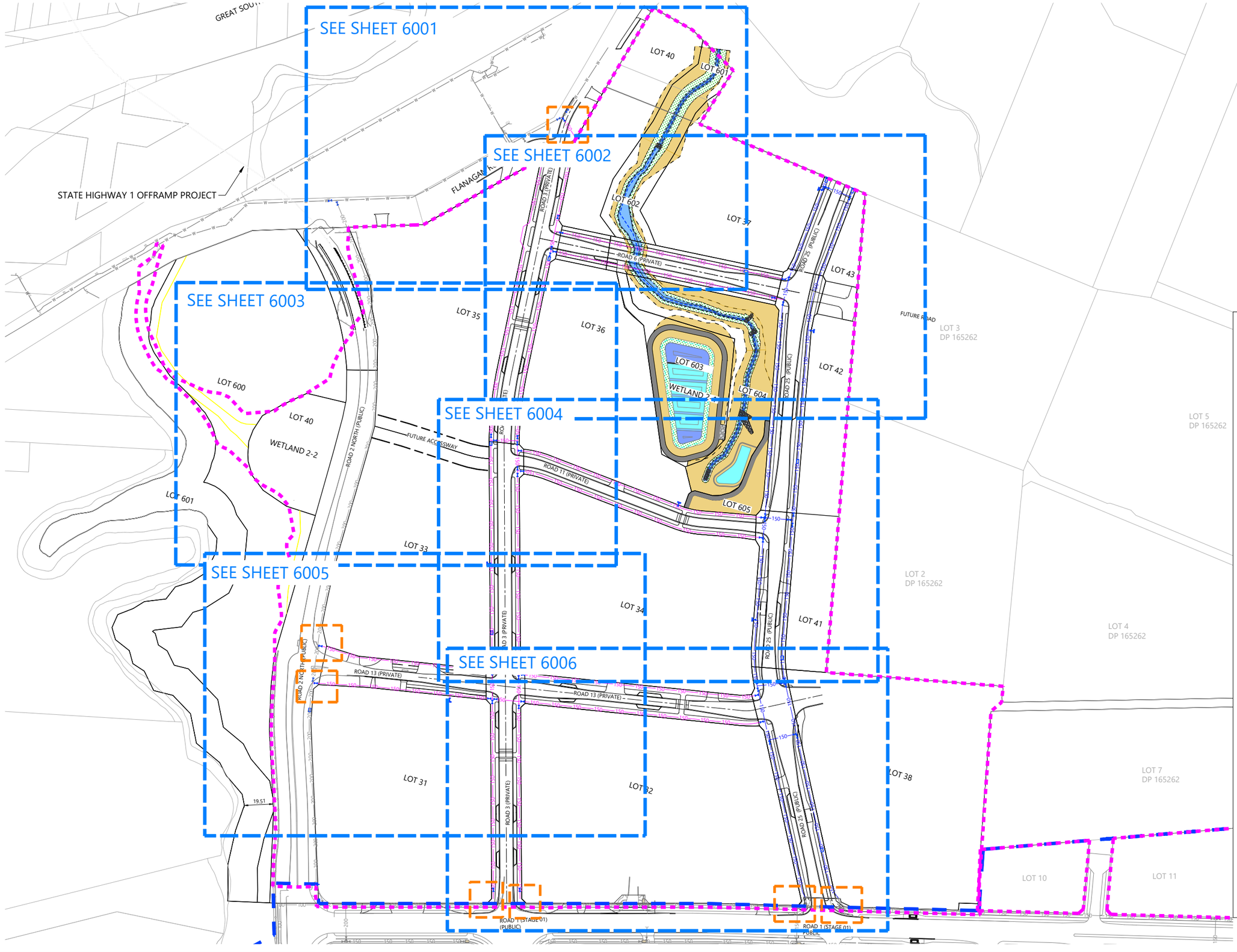
BUILDING B, LEVEL 1
8 NUGENT ST, GRAFTON,
AUCKLAND 1023
+64 9 308 9229
WOODS.CO.NZ

Kiwi Property

DRURY CENTRE-STAGE 2

WASTEWATER CATCHMENT PLAN (SHEET 4 OF 4)

STATUS	FOR FAST TRACK CONSENT
SCALE	1:1000 @ A3
COUNCIL	AUCKLAND COUNCIL
DWG NO	P24-447-01-4704-DR
REV	3



NOTES

1. REFER TO LUC60390225, ENG60429650 FOR THE WASTEWATER AND WATER SUPPLY NETWORK CONSENTS APPROVED FOR DRURY CENTRE STAGE 1.
2. ALL WORK AND MATERIALS TO COMPLY WITH WATERCARE CODE OF PRACTICE WATER SUPPLY ONLY v2.4. ANY AMBIGUITY BETWEEN THESE DRAWINGS AND WATERCARE STANDARDS ARE TO BE REFERRED TO THE ENGINEER FOR CLARIFICATION.
3. ALL WATERMAIN ROAD CROSSINGS ARE TO BE HARDFILL BACKFILLED.
4. THE CONTRACTOR IS RESPONSIBLE FOR TESTING AND STERILISATION IN PREPARTATION FOR CONNECTION APPLICATION. CONNECTIONS TO THE EXISTING MAIN(S) ONLY TO BE MADE BY WSL APPROVED CONTRACTORS.
5. WATERMAINS ARE TO BE INSTALLED 1.1m OFF THE ROAD RESERVE BOUNDARY. THE STANDARD LAY POSITION IS SHOWN ON THE TYPICAL ROAD CROSS SECTION DRAWING.
6. ALL CONNECTIONS TO EXISTING LIVE WATER SUPPLY TO BE COMPLETED BY VEOLIA.
7. ALL TEES ARE TO BE PE FLANGED DUCTILE IRON.
8. ALL PIPE SIZES SHOWN ARE INTERNAL DIAMETERS (NOMINAL BORE).
9. PIPE MATERIAL IS SPECIFIED AS FOLLLOWS:
   - 9.1. 25NB PE LOT CONNECTION IS 25mm ID (32mm OD) PE 80B SDR 11 PN 12.5.
   - 9.2. 50NB PE RIDERMAIN IS 50mm ID (63mm OD) PE 100 SDR 13.6 PN 12.5
   - 9.3. 100NB PE WATERMAIN IS 100mm ID (125mm OD) PE 100 SDR 13.6 PN 12.5
   - 9.4. 150NB PE WATERMAIN IS 150mm ID (180mm OD) PE 100 SDR 13.6 PN 12.5
   - 9.5. 200NB PE WATERMAIN IS 200mm ID (250mm OD) PE 100 SDR 13.6 PN 12.
10. PIPE FITTINGS, VALVES AND HYDRANTS SHOWN AT INCREASED SCALE. ALL VALVES AND HYDRANT SURFACE LIDS TO BE LOCATED EITHER ENTIRELY IN THE CONCRETE FOOTPATH OR BERM.

LEGEND

- STAGE 2 CATCHMENT EXTENT
- STAGE 1 CATCHMENT EXTENT
- PUBLIC PROPOSED 100mm NB
- PUBLIC PROPOSED 150mm NB
- PUBLIC PROPOSED 200mm NB
- PRIVATE PROPOSED 100mm NB
- PRIVATE PROPOSED 150mm NB
- PRIVATE PROPOSED 200mm NB
- EXISTING WATERMAIN
- STAGE 1 EPA APPROVED 100mm NB
- STAGE 1 EPA APPROVED 200mm NB
- SLUICE VALVE
- 50mm PEET VALVE
- FIRE HYDRANT
- BLANK CAP
- CONNECTION LOCATIONS

SCALEBAR (m) 0 25 50 125

SCALE | 1:2500 @A3 | 1:1250 @A1|

REVISION DETAILS		INT	DATE	SURVEYED	
2	FOR 90% DESIGN	AR	29/11/2024	DESIGNED	MBB
3	FOR 90% DESIGN - REV 1	SF	04/12/2024	DRAWN	AR
4	FOR THE 99% SUBMISSION	SF	10/02/2025	CHECKED	SF
5	FOR FAST TRACK CONSNET	SF	21/02/2025	APPROVED	CD

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

Kiwi Property

DRURY CENTRE-STAGE 2

OVERALL WATER SUPPLY PLAN

STATUS	FOR FAST TRACK CONSENT	REV
SCALE	1:2500@ A3	5
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P24-447-01-6000-WR	

Plot Date: 11:45:05 am,21 February 2025, ELLAWA

File: C:\12DS\DATA\WP-AKL-APP-02\P24-447 - DRURY CENTRE - STAGE 2_22140\02 DRAWINGS\01 ENG\P24-447-01-6000-DR_WATER RETICULATION LAYOUT PLAN.DWG

NOTES

1. REFER TO NOTES ON DRAWING P24-447-01-6000-WR.

LEGEND

- STAGE 2 CATCHMENT EXTENT
- STAGE 1 CATCHMENT EXTENT
- NZTA SH1 OFFRAMP PROJECT EXTENT
- PUBLIC PROPOSED 100mm NB
- PUBLIC PROPOSED 150mm NB
- PUBLIC PROPOSED 200mm NB
- PRIVATE PROPOSED 100mm NB
- PRIVATE PROPOSED 150mm NB
- PRIVATE PROPOSED 200mm NB
- EXISTING WATERMAIN
- STAGE 1 EPA APPROVED 100mm NB
- STAGE 1 EPA APPROVED 200mm NB
- SLUICE VALVE
- 50mm PEET VALVE
- FIRE HYDRANT
- BLANK CAP
- CONNECTION LOCATIONS

CONNECTION LOCATION 1

FLANAGAN ROAD

ROAD 3 (PRIVATE)

ROAD 6 (PRIVATE)

LOT 40

LOT 601

LOT 39

LOT 602

LOT 3

SCALEBAR [m] 0 7.5 15 37.5

SCALE | 1:750 @A3 | 1:375 @A1|

Plot Date: 11:45:06 am,21 February 2025, ELLAWA

File: C:\12DS\DATA\WP-AKL-APP-02\P24-447 - DRURY CENTRE - STAGE 2_22140\02 DRAWINGS\01 ENG\P24-447-01-6000-DR_WATER RETICULATION LAYOUT PLAN.DWG

REVISION DETAILS		INT	DATE	SURVEYED	
2	FOR 90% DESIGN	AR	29/11/2024	DESIGNED	MBB
3	FOR 90% DESIGN - REV 1	SF	04/12/2024	DRAWN	AR
4	FOR THE 99% SUBMISSION	SF	10/02/2025	CHECKED	SF
5	FOR FAST TRACK CONSNET	SF	21/02/2025	APPROVED	CD

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

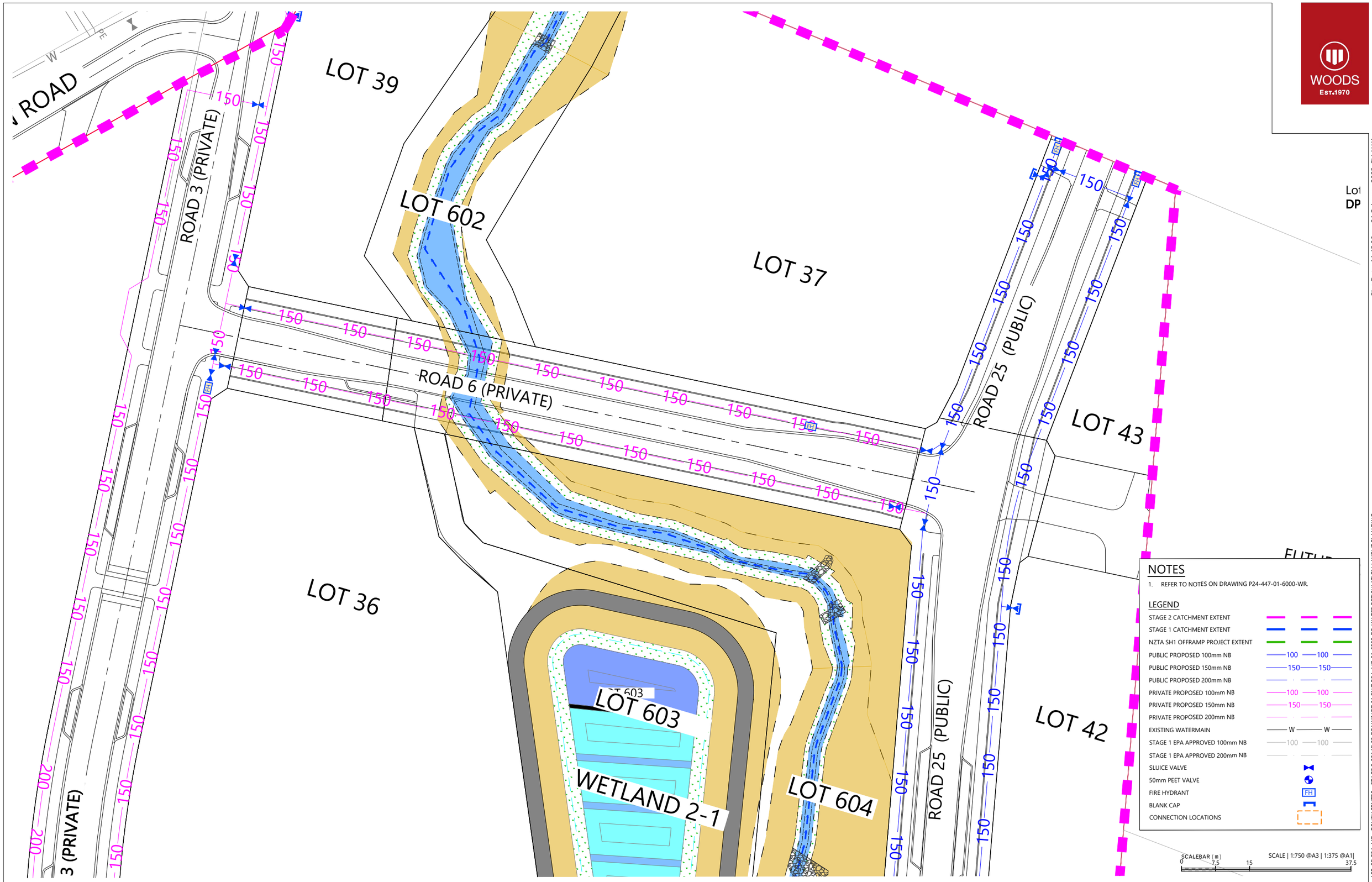
Kiwi Property

DRURY CENTRE-STAGE 2

WATER SUPPLY PLAN (SHEET 1 OF 6)

STATUS	FOR FAST TRACK CONSENT
SCALE	1:750 @ A3
COUNCIL	AUCKLAND COUNCIL
DWG NO	P24-447-01-6001-WR

REV 5



REVISION DETAILS		INT	DATE	SURVEYED	
2	FOR 90% DESIGN	AR	29/11/2024	DESIGNED	MBB
3	FOR 90% DESIGN - REV 1	SF	04/12/2024	DRAWN	AR
4	FOR THE 99% SUBMISSION	SF	10/02/2025	CHECKED	SF
5	FOR FAST TRACK CONSNET	SF	21/02/2025	APPROVED	CD

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

Kiwi Property

DRURY CENTRE-STAGE 2

WATER SUPPLY PLAN (SHEET 2 OF 6)

STATUS	FOR FAST TRACK CONSENT
SCALE	1:750 @ A3
COUNCIL	AUCKLAND COUNCIL
DWG NO	P24-447-01-6002-WR
REV	5

Plot Date: 11:45:06 am,21 February 2025, ELLAWA

File: C:\12DS\DATA\WP-AKL-APP-02\P24-447 - DRURY CENTRE - STAGE 2_22140\02 DRAWINGS\01 ENG\P24-447-01-6000-DR_WATER RETICULATION LAYOUT PLAN.DWG

NOTES

1. REFER TO NOTES ON DRAWING P24-447-01-6000-WR.

LEGEND

- STAGE 2 CATCHMENT EXTENT
- STAGE 1 CATCHMENT EXTENT
- NZTA SH1 OFFRAMP PROJECT EXTENT
- PUBLIC PROPOSED 100mm NB
- PUBLIC PROPOSED 150mm NB
- PUBLIC PROPOSED 200mm NB
- PRIVATE PROPOSED 100mm NB
- PRIVATE PROPOSED 150mm NB
- PRIVATE PROPOSED 200mm NB
- EXISTING WATERMAIN
- STAGE 1 EPA APPROVED 100mm NB
- STAGE 1 EPA APPROVED 200mm NB
- SLUICE VALVE
- 50mm PEET VALVE
- FIRE HYDRANT
- BLANK CAP
- CONNECTION LOCATIONS

LOT 600

LOT 40

WETLAND 2-2

NZTA SH1 OFFRAMP PROJECT AND ROAD 2 NORTH NOT PART OF THIS CONSENT

T 601

ROAD 2 NORTH (PUBLIC)

FUTURE ACCESSWAY

LOT 35

LOT 36

ROAD 3 (PRIVATE)

ROAD 11 (PRIVATE)

LOT 33

SCALEBAR (m) 0 10 20 50

SCALE | 1:1000 @A3 | 1:500 @A1|

REVISION DETAILS		INT	DATE	SURVEYED	
2	FOR 90% DESIGN	AR	29/11/2024	DESIGNED	MBB
3	FOR 90% DESIGN - REV 1	SF	04/12/2024	DRAWN	AR
4	FOR THE 99% SUBMISSION	SF	10/02/2025	CHECKED	SF
5	FOR FAST TRACK CONSNET	SF	21/02/2025	APPROVED	CD

BUILDING B, LEVEL 1
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+64 9 308 9229

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Kiwi Property

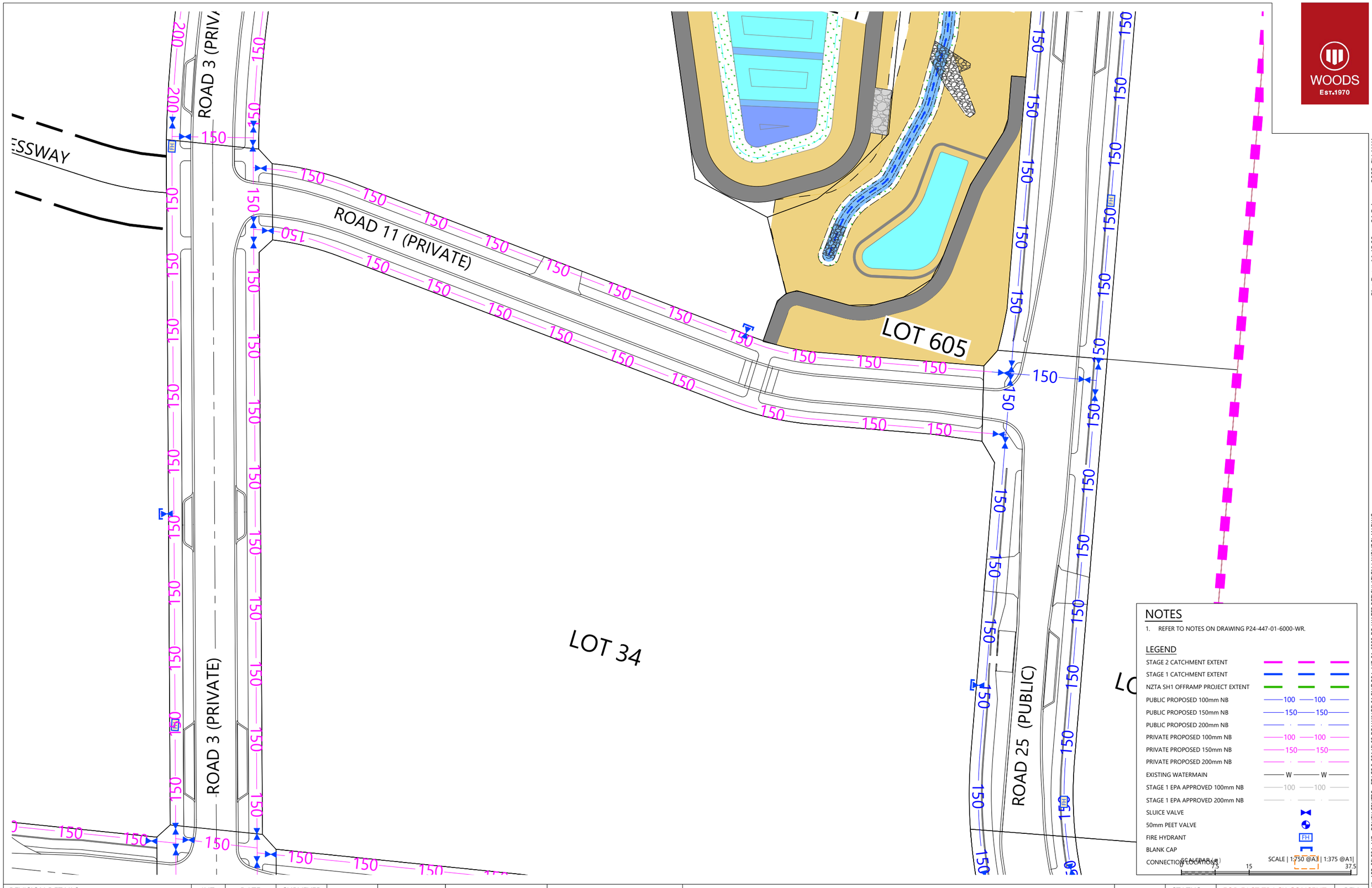
DRURY CENTRE-STAGE 2

WATER SUPPLY PLAN (SHEET 3 OF 6)

STATUS	FOR FAST TRACK CONSENT
SCALE	1:750 @ A3
COUNCIL	AUCKLAND COUNCIL
DWG NO	P24-447-01-6003-WR
REV	5

Plot Date: 11:45:07 am,21 February 2025, ELLAWA

File: C:\12DS\DATA\WP-AKL-APP-02\P24-447 - DRURY CENTRE - STAGE 2_22140\02 DRAWINGS\01 ENG\P24-447-01-6000-DR_WATER RETICULATION LAYOUT PLAN.DWG



REVISION DETAILS		INT	DATE	SURVEYED	
2	FOR 90% DESIGN	AR	29/11/2024	DESIGNED	MBB
3	FOR 90% DESIGN - REV 1	SF	04/12/2024	DRAWN	AR
4	FOR THE 99% SUBMISSION	SF	10/02/2025	CHECKED	SF
5	FOR FAST TRACK CONSNET	SF	21/02/2025	APPROVED	CD

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

DRURY CENTRE-STAGE 2

WATER SUPPLY PLAN (SHEET 4 OF 6)

STATUS	FOR FAST TRACK CONSENT	REV
SCALE	1:750 @ A3	5
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P24-447-01-6004-WR	

Plot Date: 11:45:08 am,21 February 2025, ELLAWA

File: C:\12DS\DATA\WP-AKL-APP-02\P24-447 - DRURY CENTRE - STAGE 2_22140\02 DRAWINGS\01 ENG\P24-447-01-6000-DR_WATER RETICULATION LAYOUT PLAN.DWG

NOTES

1. REFER TO NOTES ON DRAWING P24-447-01-6000-WR.

LEGEND

- STAGE 2 CATCHMENT EXTENT
- STAGE 1 CATCHMENT EXTENT
- NZTA SH1 OFFRAMP PROJECT EXTENT
- PUBLIC PROPOSED 100mm NB
- PUBLIC PROPOSED 150mm NB
- PUBLIC PROPOSED 200mm NB
- PRIVATE PROPOSED 100mm NB
- PRIVATE PROPOSED 150mm NB
- PRIVATE PROPOSED 200mm NB
- EXISTING WATERMAIN
- STAGE 1 EPA APPROVED 100mm NB
- STAGE 1 EPA APPROVED 200mm NB
- SLUICE VALVE
- 50mm PEET VALVE
- FIRE HYDRANT
- BLANK CAP
- CONNECTION LOCATIONS

CONNECTION LOCATION 2

CONNECTION LOCATION 3

ROAD 2 NORTH (PUBLIC)

ROAD 13 (PRIVATE)

ROAD 3 (PRIVATE)

ROAD 13 (PRIVATE)

ROAD 3 (PRIVATE)

NZTA SH1 OFFRAMP PROJECT AND ROAD 2 NORTH NOT PART OF THIS CONSENT

19.51

LOT 31

LOT

EXCLUDES STAGE 1
LUC60390225, ENG60429650

SCALEBAR (m) 0 7.5 15 37.5

SCALE | 1:750 @A3 | 1:375 @A1|

REVISION DETAILS		INT	DATE	SURVEYED	
2	FOR 90% DESIGN	AR	29/11/2024	DESIGNED	MBB
3	FOR 90% DESIGN - REV 1	SF	04/12/2024	DRAWN	AR
4	FOR THE 99% SUBMISSION	SF	10/02/2025	CHECKED	SF
5	FOR FAST TRACK CONSNET	SF	21/02/2025	APPROVED	CD

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

DRURY CENTRE-STAGE 2

WATER SUPPLY PLAN (SHEET 5 OF 6)

STATUS	FOR FAST TRACK CONSENT
SCALE	1:750 @ A3
COUNCIL	AUCKLAND COUNCIL
DWG NO	P24-447-01-6005-WR
REV	5

Plot Date: 11:45:09 am,21 February 2025, ELLAWA
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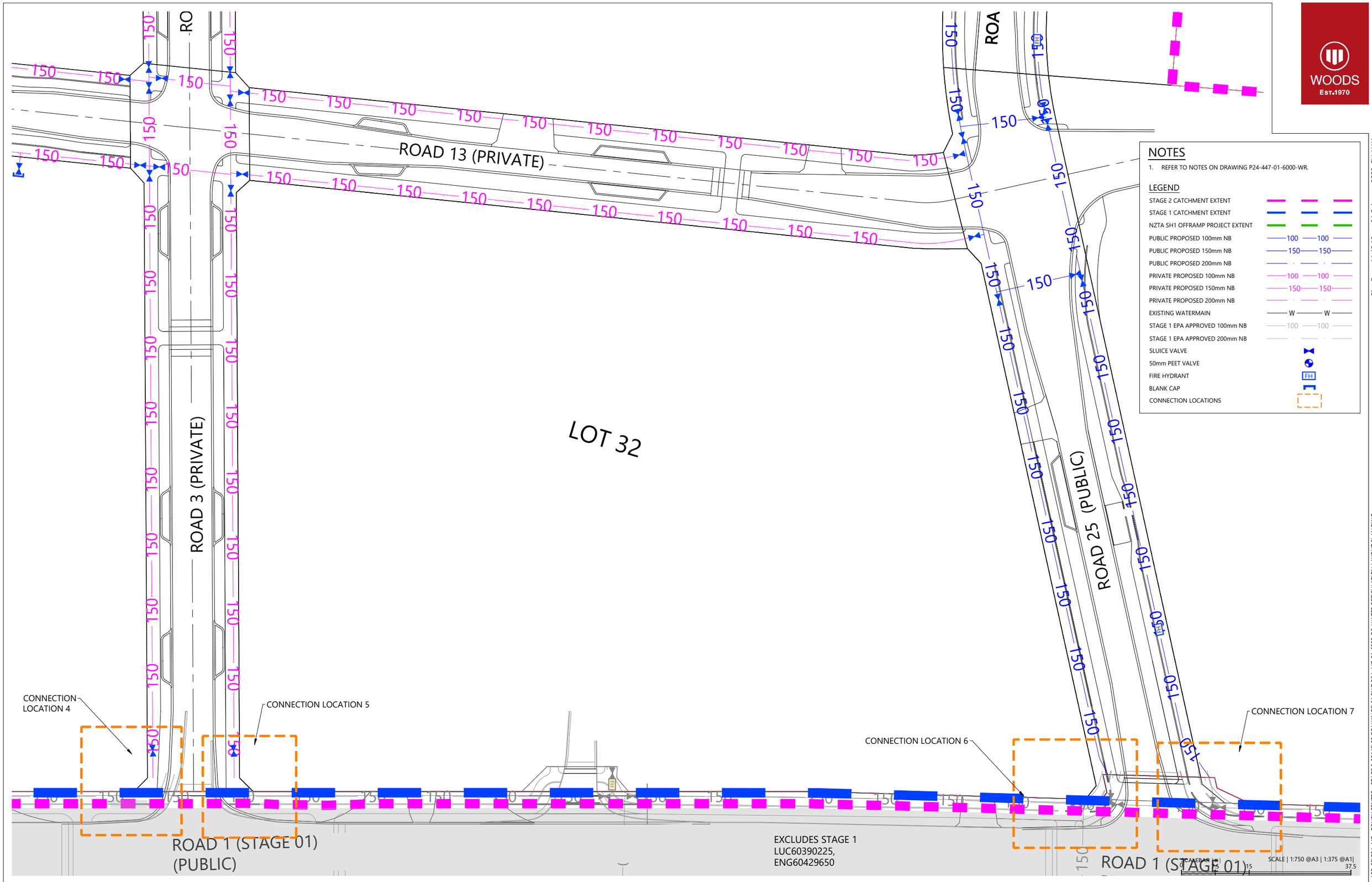

NOTES

1. REFER TO NOTES ON DRAWING P24-447-01-6000-WR.

LEGEND

- STAGE 2 CATCHMENT EXTENT
- STAGE 1 CATCHMENT EXTENT
- NZTA SH1 OFFRAMP PROJECT EXTENT
- PUBLIC PROPOSED 100mm NB
- PUBLIC PROPOSED 150mm NB
- PUBLIC PROPOSED 200mm NB
- PRIVATE PROPOSED 100mm NB
- PRIVATE PROPOSED 150mm NB
- PRIVATE PROPOSED 200mm NB
- EXISTING WATERMAIN
- STAGE 1 EPA APPROVED 100mm NB
- STAGE 1 EPA APPROVED 200mm NB
- SLUICE VALVE
- 50mm PEET VALVE
- FIRE HYDRANT
- BLANK CAP
- CONNECTION LOCATIONS

REVISION DETAILS		INT	DATE	SURVEYED	
2	FOR 90% DESIGN	AR	29/11/2024	DESIGNED	MBB
3	FOR 90% DESIGN - REV 1	SF	04/12/2024	DRAWN	AR
4	FOR THE 99% SUBMISSION	SF	10/02/2025	CHECKED	SF
5	FOR FAST TRACK CONSNET	SF	21/02/2025	APPROVED	CD

BUILDING B, LEVEL 1
8 NUGENT ST, GRAFTON,
AUCKLAND 1023
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Kiwi Property

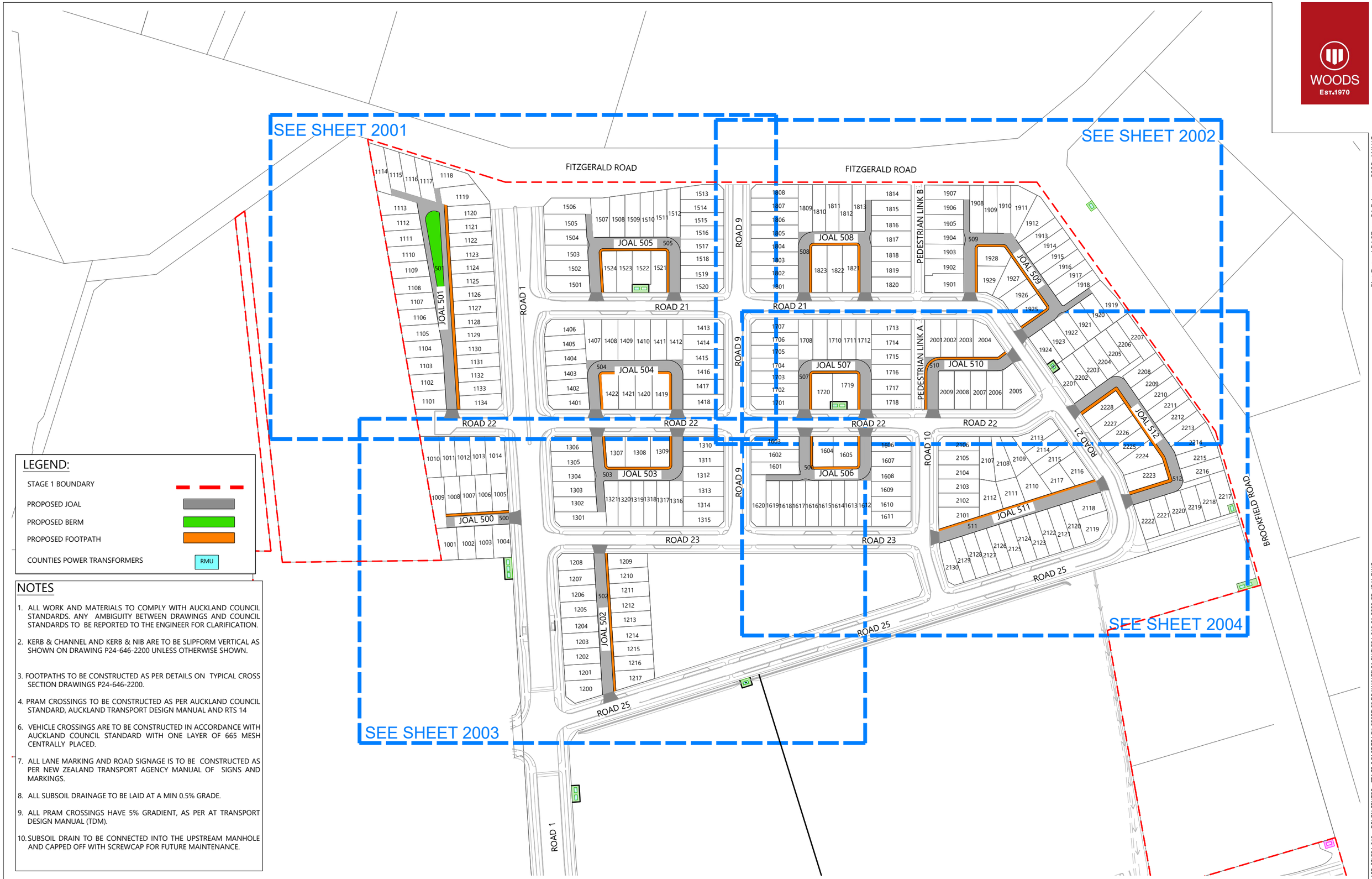
DRURY CENTRE-STAGE 2

WATER SUPPLY PLAN (SHEET 6 OF 6)

STATUS	FOR FAST TRACK CONSENT
SCALE	1:750 @ A3
COUNCIL	AUCKLAND COUNCIL
DWG NO	P24-447-01-6006-WR
REV	5

Plot Date: 11:45:10 am,21 February 2025, ELLAWA

File: C:\12DS\DATA\WP-AKL-APP-02\P24-447 - DRURY CENTRE - STAGE 2_22140\02 DRAWINGS\01 ENG\P24-447-01-6000-DR_WATER RETICULATION LAYOUT PLAN.DWG



LEGEND:

- STAGE 1 BOUNDARY
- PROPOSED JOAL
- PROPOSED BERM
- PROPOSED FOOTPATH
- COUNTIES POWER TRANSFORMERS — RMU

NOTES

1. ALL WORK AND MATERIALS TO COMPLY WITH AUCKLAND COUNCIL STANDARDS. ANY AMBIGUITY BETWEEN DRAWINGS AND COUNCIL STANDARDS TO BE REPORTED TO THE ENGINEER FOR CLARIFICATION.
2. KERB & CHANNEL AND KERB & NIB ARE TO BE SLIPFORM VERTICAL AS SHOWN ON DRAWING P24-646-2200 UNLESS OTHERWISE SHOWN.
3. FOOTPATHS TO BE CONSTRUCTED AS PER DETAILS ON TYPICAL CROSS SECTION DRAWINGS P24-646-2200.
4. PRAM CROSSINGS TO BE CONSTRUCTED AS PER AUCKLAND COUNCIL STANDARD, AUCKLAND TRANSPORT DESIGN MANUAL AND RTS 14
6. VEHICLE CROSSINGS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH AUCKLAND COUNCIL STANDARD WITH ONE LAYER OF 665 MESH CENTRALLY PLACED.
7. ALL LANE MARKING AND ROAD SIGNAGE IS TO BE CONSTRUCTED AS PER NEW ZEALAND TRANSPORT AGENCY MANUAL OF SIGNS AND MARKINGS.
8. ALL SUBSOIL DRAINAGE TO BE LAID AT A MIN 0.5% GRADE.
9. ALL PRAM CROSSINGS HAVE 5% GRADIENT, AS PER AT TRANSPORT DESIGN MANUAL (TDM).
10. SUBSOIL DRAIN TO BE CONNECTED INTO THE UPSTREAM MANHOLE AND CAPPED OFF WITH SCREWCAP FOR FUTURE MAINTENANCE.

REVISION DETAILS		INT	DATE
1	FOR RESOURCE CONSENT	AR	14/02/2025

SURVEYED	BJ
DESIGNED	AR
DRAWN	AR
CHECKED	TH
APPROVED	CD

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

Kiwi Property

DRURY CENTRE SUPERLOTS

OVERALL ROADING LAYOUT PLAN

STATUS	RESOURCE CONSENT
SCALE	1:1000 @ A3
COUNCIL	AUCKLAND COUNCIL
DWG NO	P24-646-01-2000
REV	1

Plot Date: 4:54:07 pm,21 February 2025, ANUJC
File: C:\12DS\DATA\WP-AKL-APP-02\P24-646 - DRURY CENTRE - STAGE 2 FAST TRACK_22237\02 DRAWINGS\01 ENG\P24-646-01-2000-RD_JOAL.DWG

LEGEND:

- STAGE 1 BOUNDARY
- PROPOSED JOAL
- PROPOSED BERM
- PROPOSED FOOTPATH
- COUNTIES POWER TRANSFORMERS — RMU

NOTES:

1. REFER TO SHEET 2000 FOR NOTES

REVISION DETAILS		INT	DATE		
1	FOR RESOURCE CONSENT	AR	14/02/2025	SURVEYED	BJ
				DESIGNED	AR
				DRAWN	AR
				CHECKED	TH
				APPROVED	CD

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

Kiwi Property

DRURY CENTRE SUPERLOTS

ROADING LAYOUT PLAN
SHEET 1 OF 4

STATUS	RESOURCE CONSENT	REV	
SCALE	1:750 @ A3		1
COUNCIL	AUCKLAND COUNCIL		
DWG NO	P24-646-01-2001		

Plot Date: 4:54:08 pm,21 February 2025, ANUJC

File: C:\12DS\DATA\WP-AKL-APP-02\P24-646 - DRURY CENTRE - STAGE 2 FAST TRACK_22237\02 DRAWINGS\01 ENG\P24-646-01-2000-RD_JOAL.DWG

WOODS
EST.1970

LEGEND:

- STAGE 1 BOUNDARY
- PROPOSED JOAL
- PROPOSED BERM
- PROPOSED FOOTPATH
- COUNTIES POWER TRANSFORMERS — RMU

NOTES:

1. REFER TO SHEET 2000 FOR NOTES

Plot Date: 4:54:08 pm,21 February 2025, ANUJC

REVISION DETAILS		INT	DATE	SURVEYED	BJ
1	FOR RESOURCE CONSENT	AR	14/02/2025	DESIGNED	AR
				DRAWN	AR
				CHECKED	TH
				APPROVED	CD

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

Kiwi Property

DRURY CENTRE SUPERLOTS

ROADING LAYOUT PLAN
SHEET 2 OF 4

STATUS	RESOURCE CONSENT
SCALE	1:750 @ A3
COUNCIL	AUCKLAND COUNCIL
DWG NO	P24-646-01-2002
REV	1

File: C:\12DS\DATA\WP-AKL-APP-02\P24-646 - DRURY CENTRE - STAGE 2 FAST TRACK_22237\02 DRAWINGS\01 ENG\P24-646-01-2000-RD_JOAL.DWG

LEGEND:

- STAGE 1 BOUNDARY
- PROPOSED JOAL
- PROPOSED BERM
- PROPOSED FOOTPATH
- COUNTIES POWER TRANSFORMERS — RMU

NOTES:

1. REFER TO SHEET 2000 FOR NOTES

REVISION DETAILS		INT	DATE		
1	FOR RESOURCE CONSENT	AR	14/02/2025	SURVEYED	BJ
				DESIGNED	AR
				DRAWN	AR
				CHECKED	TH
				APPROVED	CD

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

Kiwi Property

DRURY CENTRE SUPERLOTS

ROADING LAYOUT PLAN
SHEET 3 OF 4

STATUS	RESOURCE CONSENT	REV
SCALE	1:750 @ A3	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P24-646-01-2003	

LEGEND:

- STAGE 1 BOUNDARY
- PROPOSED JOAL
- PROPOSED BERM
- PROPOSED FOOTPATH
- COUNTIES POWER TRANSFORMERS — RMU

NOTES:

1. REFER TO SHEET 2000 FOR NOTES

REVISION DETAILS		INT	DATE	SURVEYED	BJ
1	FOR RESOURCE CONSENT	AR	14/02/2025	DESIGNED	AR
				DRAWN	AR
				CHECKED	TH
				APPROVED	CD

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

Kiwi Property

DRURY CENTRE SUPERLOTS

ROADING LAYOUT PLAN
SHEET 4 OF 4

STATUS	RESOURCE CONSENT	REV
SCALE	1:750 @ A3	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P24-646-01-2004	

Plot Date: 4:54:09 pm,21 February 2025, ANUJC
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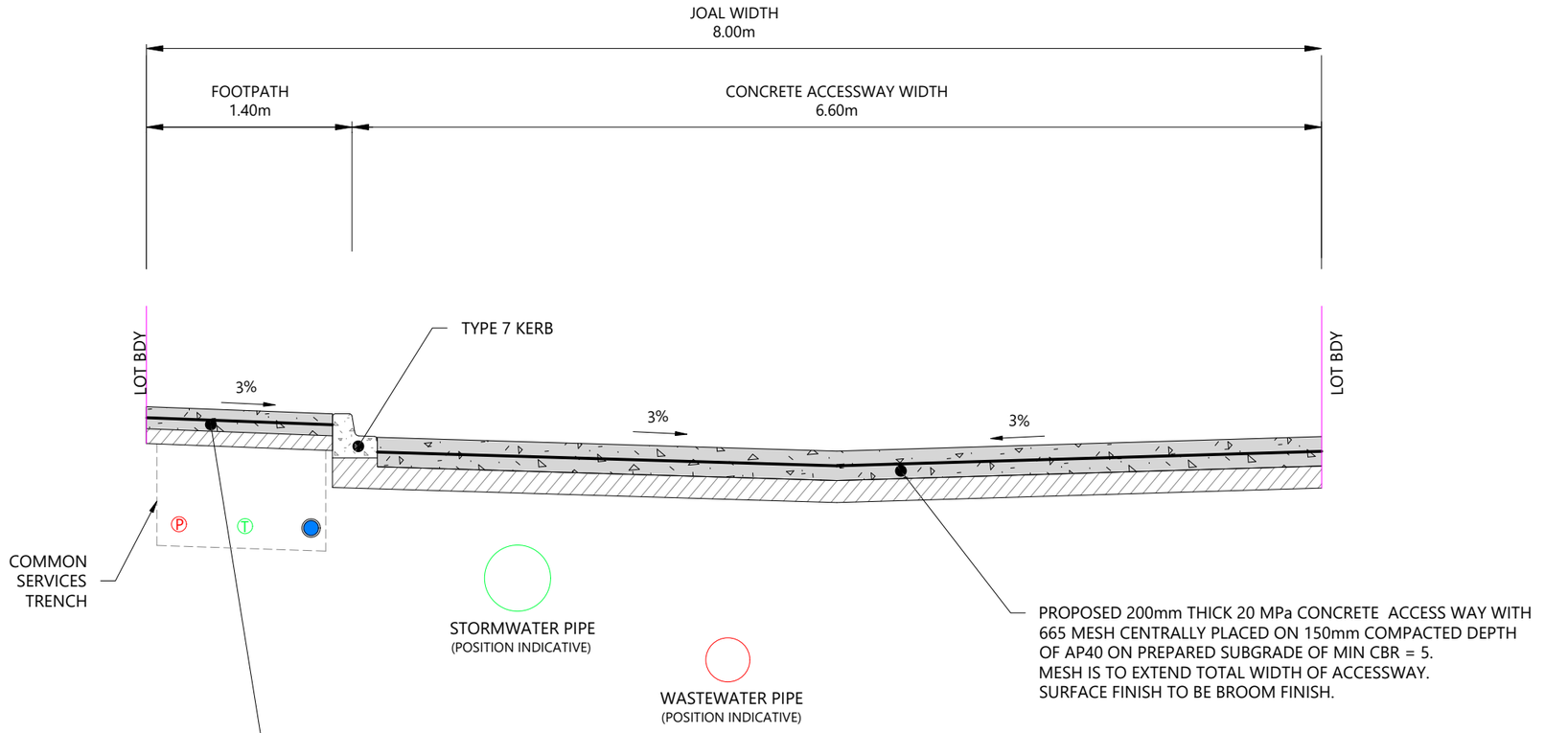


CROSS SECTION FOR JOALS:
500,502,503,504,505,506,507,508,510 AND 511

SCALEBAR (m) 0 0.4 0.8 2

SCALE | 1:40 @A3 | 1:20 @A1|

REVISION DETAILS		INT	DATE	SURVEYED	BJ
1	FOR RESOURCE CONSENT	AR	14/02/2025	DESIGNED	AR
				DRAWN	AR
				CHECKED	TH
				APPROVED	CD

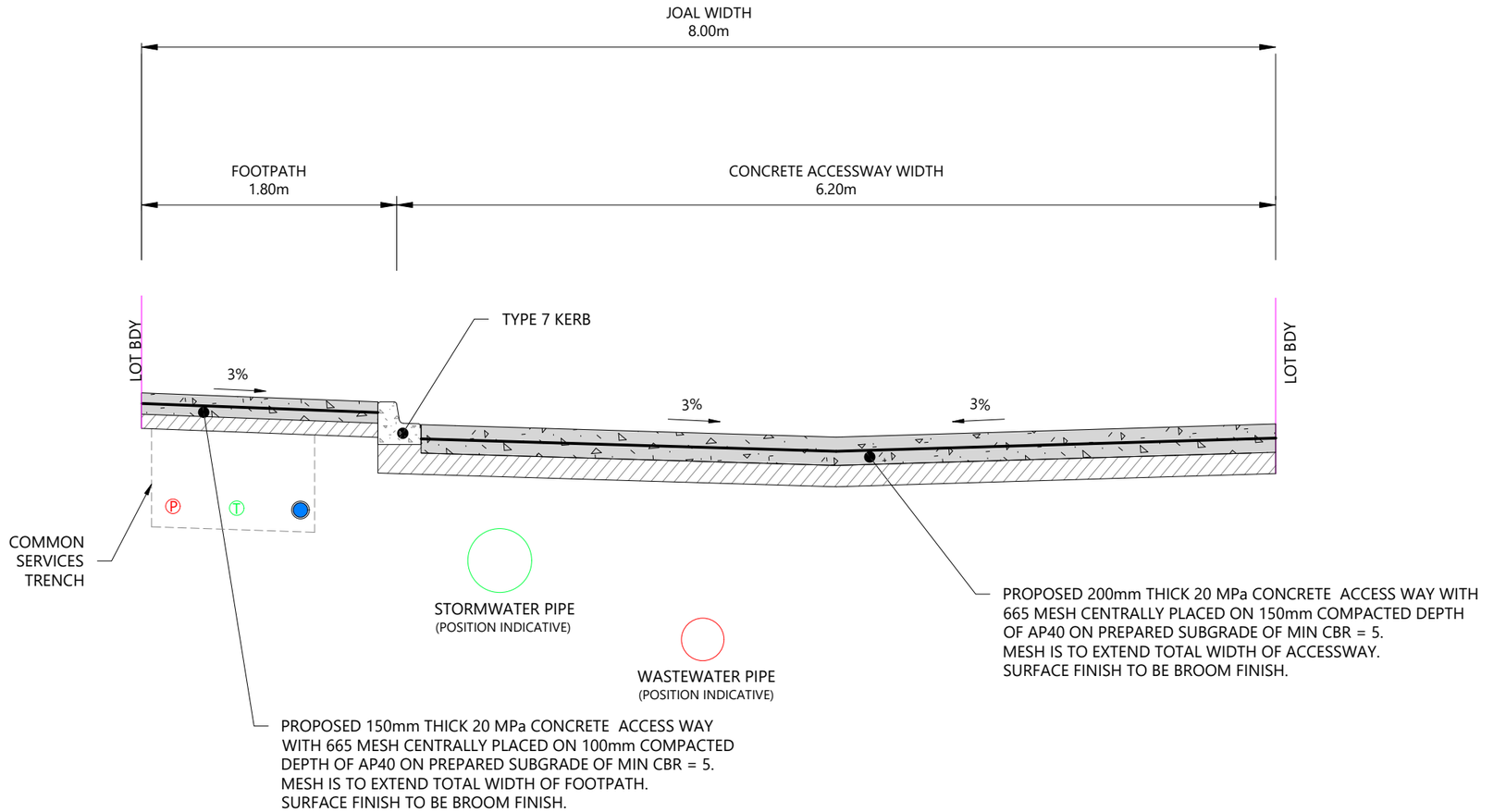
BUILDING B, LEVEL 1
8 NUGENT ST, GRAFTON,
AUCKLAND 1023
+64 9 308 9229
WOODS.CO.NZ

Kiwi Property

DRURY CENTRE SUPERLOTS

TYPICAL JOAL CROSS SECTION SHEET 1 OF 2

STATUS	RESOURCE CONSENT	REV
SCALE	1:40 @ A3	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P24-646-01-2200	



CROSS SECTION FOR JOALS:
501, 512 AND 509

SCALEBAR (m) 0 0.4 0.8 2

SCALE | 1:40 @A3 | 1:20 @A1|

REVISION DETAILS		INT	DATE	SURVEYED	BJ
1	FOR RESOURCE CONSENT	AR	14/02/2025	DESIGNED	AR
				DRAWN	AR
				CHECKED	TH
				APPROVED	CD

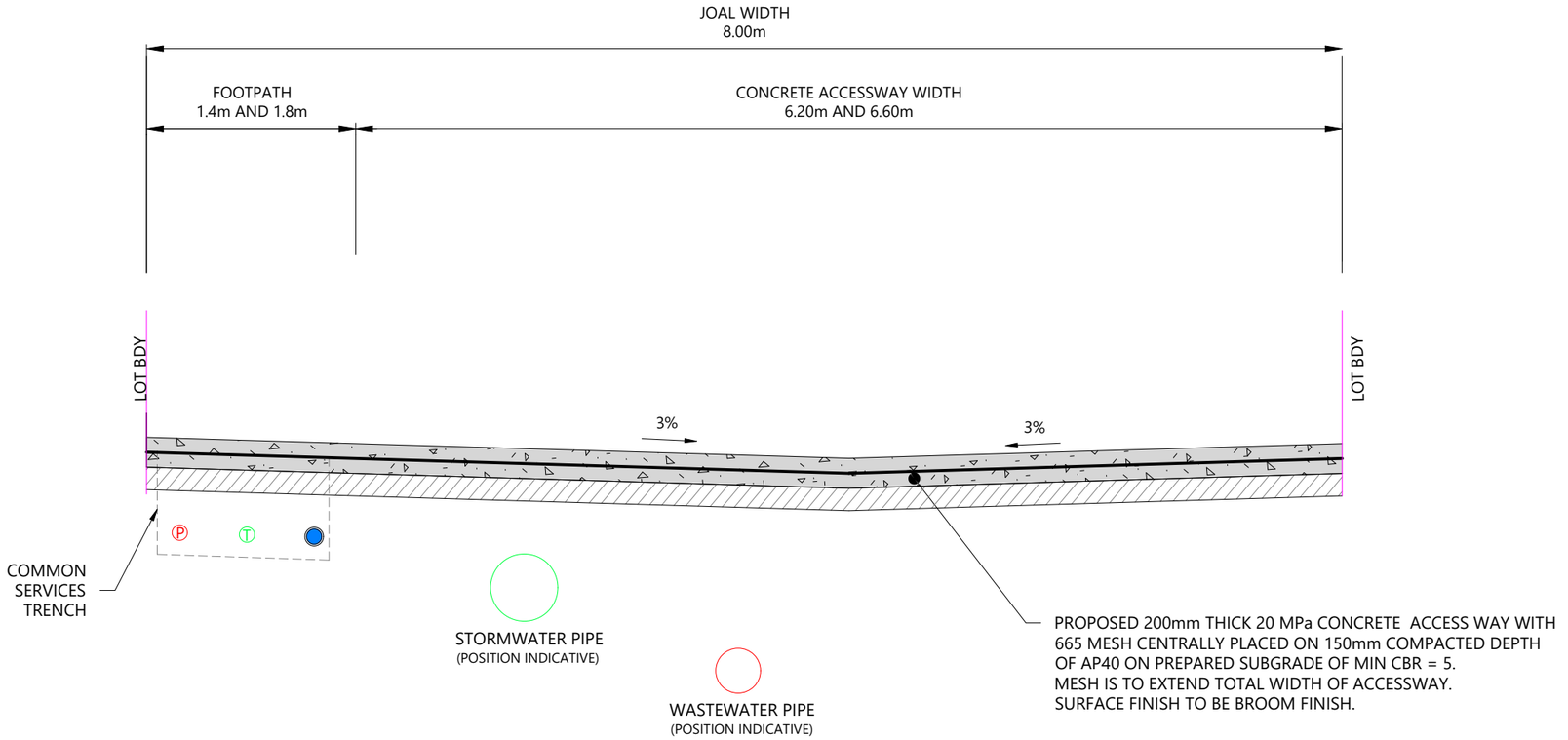
BUILDING B, LEVEL 1
8 NUGENT ST, GRAFTON,
AUCKLAND 1023
+64 9 308 9229
WOODS.CO.NZ

Kiwi Property

DRURY CENTRE SUPERLOTS

TYPICAL JOAL CROSS SECTION SHEET 2 OF 2

STATUS	RESOURCE CONSENT	REV
SCALE	1:40 @ A3	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P24-646-01-2201	



CROSS SECTION FOR JOALS WITH VEHICLE ACCESS

SCALEBAR (m) 0 0.4 0.8 2
SCALE | 1:40 @A3 | 1:20 @A1|

REVISION DETAILS		INT	DATE	SURVEYED	BJ
1	FOR RESOURCE CONSENT	AR	14/02/2025	DESIGNED	AR
				DRAWN	AR
				CHECKED	TH
				APPROVED	CD

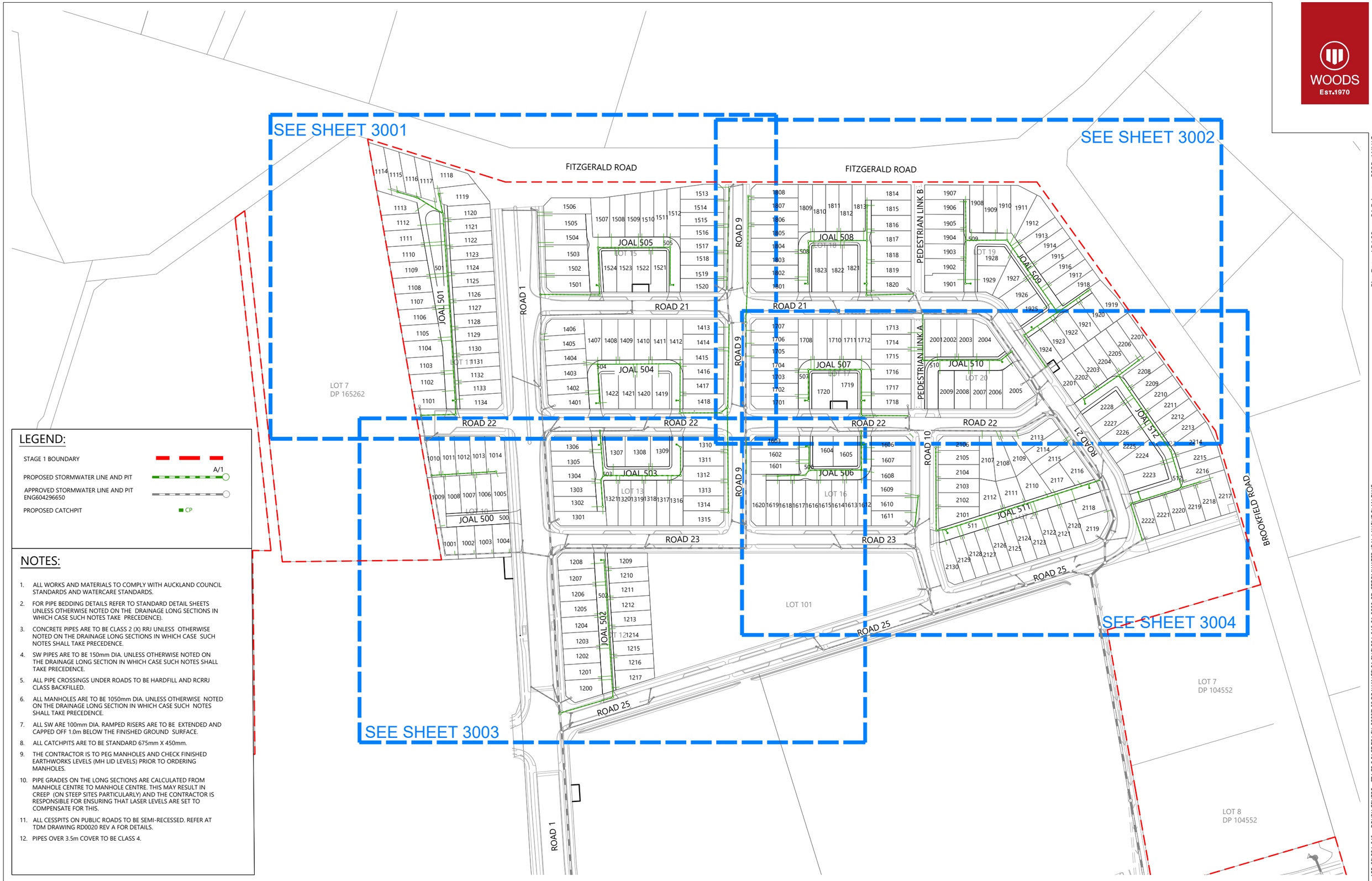
BUILDING B, LEVEL 1
8 NUGENT ST, GRAFTON,
AUCKLAND 1023
+64 9 308 9229
WOODS.CO.NZ

Kiwi Property

DRURY CENTRE SUPERLOTS

TYPICAL JOAL CROSS SECTION SHEET 2 OF 3

STATUS	RESOURCE CONSENT	REV
SCALE	1:40 @ A3	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P24-646-01-2202	



LEGEND:

- STAGE 1 BOUNDARY
- PROPOSED STORMWATER LINE AND PIT — A/1
- APPROVED STORMWATER LINE AND PIT ENG604296650
- PROPOSED CATCHPIT — CP

NOTES:

1. ALL WORKS AND MATERIALS TO COMPLY WITH AUCKLAND COUNCIL STANDARDS AND WATERCARE STANDARDS.
2. FOR PIPE BEDDING DETAILS REFER TO STANDARD DETAIL SHEETS UNLESS OTHERWISE NOTED ON THE DRAINAGE LONG SECTIONS IN WHICH CASE SUCH NOTES TAKE PRECEDENCE).
3. CONCRETE PIPES ARE TO BE CLASS 2 (X) RRJ UNLESS OTHERWISE NOTED ON THE DRAINAGE LONG SECTIONS IN WHICH CASE SUCH NOTES SHALL TAKE PRECEDENCE.
4. SW PIPES ARE TO BE 150mm DIA. UNLESS OTHERWISE NOTED ON THE DRAINAGE LONG SECTION IN WHICH CASE SUCH NOTES SHALL TAKE PRECEDENCE.
5. ALL PIPE CROSSINGS UNDER ROADS TO BE HARDFILL AND RCRRJ CLASS BACKFILLED.
6. ALL MANHOLES ARE TO BE 1050mm DIA. UNLESS OTHERWISE NOTED ON THE DRAINAGE LONG SECTION IN WHICH CASE SUCH NOTES SHALL TAKE PRECEDENCE.
7. ALL SW ARE 100mm DIA. RAMPED RISERS ARE TO BE EXTENDED AND CAPPED OFF 1.0m BELOW THE FINISHED GROUND SURFACE.
8. ALL CATCHPITS ARE TO BE STANDARD 675mm X 450mm.
9. THE CONTRACTOR IS TO PEG MANHOLES AND CHECK FINISHED EARTHWORKS LEVELS (MH LID LEVELS) PRIOR TO ORDERING MANHOLES.
10. PIPE GRADES ON THE LONG SECTIONS ARE CALCULATED FROM MANHOLE CENTRE TO MANHOLE CENTRE. THIS MAY RESULT IN CREEP (ON STEEP SITES PARTICULARLY) AND THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT LASER LEVELS ARE SET TO COMPENSATE FOR THIS.
11. ALL CESSPITS ON PUBLIC ROADS TO BE SEMI-RECESSED. REFER AT TDM DRAWING RD0020 REV A FOR DETAILS.
12. PIPES OVER 3.5m COVER TO BE CLASS 4.

REVISION DETAILS		INT	DATE	SURVEYED	BJ
1	FOR RESOURCE CONSENT	AR	14/02/2025	DESIGNED	AR
				DRAWN	AR
				CHECKED	TH
				APPROVED	CD

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

Kiwi Property

DRURY CENTRE SUPERLOTS

OVERALL STORMWATER LAYOUT PLAN

STATUS	ISSUED FOR RC
SCALE	1:1000 @ A3
COUNCIL	AUCKLAND COUNCIL
DWG NO	P24-646-01-3000
REV	1

Plot Date: 4:54:09 pm,21 February 2025, ANUJC

File: C:\12DS\DATA\WP-AKL-APP-02\P24-646 - DRURY CENTRE - STAGE 2 FAST TRACK_2223\00 DRAWINGS\01 ENG\P24-646-01-3000-RD_STORMWATER JOAL LAYOUT PLAN.DWG

LEGEND:

- STAGE 1 BOUNDARY
- PROPOSED STORMWATER LINE AND PIT — A/1
- APPROVED STORMWATER LINE AND PIT ENG604296650
- PROPOSED CATCHPIT — CP

NOTES:

1. REFER TO SHEET 3000 FOR NOTES

REVISION DETAILS		INT	DATE		
1	FOR RESOURCE CONSENT	AR	14/02/2025	SURVEYED	BJ
				DESIGNED	AR
				DRAWN	AR
				CHECKED	TH
				APPROVED	CD

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

Kiwi Property

DRURY CENTRE SUPERLOTS

STORMWATER LAYOUT PLAN
SHEET 1 OF 4

STATUS	ISSUED FOR RC	REV	
SCALE	1:750 @ A3		1
COUNCIL	AUCKLAND COUNCIL		
DWG NO	P24-646-01-3001		

Plot Date: 4:54:09 pm,21 February 2025, ANUJC

File: C:\12DS\DATA\WP-AKL-APP-02\P24-646 - DRURY CENTRE - STAGE 2 FAST TRACK_22237\02 DRAWINGS\01 ENG\P24-646-01-3000-RD_STORMWATER JOAL LAYOUT PLAN.DWG

WOODS
EST.1970

FITZGERALD ROAD

LEGEND:

- STAGE 1 BOUNDARY
- PROPOSED STORMWATER LINE AND PIT — A/1
- APPROVED STORMWATER LINE AND PIT ENG604296650
- PROPOSED CATCHPIT — CP

NOTES:

1. REFER TO SHEET 3000 FOR NOTES

ROAD 9
ROAD 21
ROAD 22
PEDESTRIAN LINK A
PEDESTRIAN LINK B
JOAL 507
JOAL 508
JOAL 509
JOAL 510
JOAL 512
LOT 17
LOT 18
LOT 19
LOT 20
LOT 22
1801 1802 1803 1804 1805 1806 1807 1808 1809 1810 1811 1812 1813 1814 1815 1816 1817 1818 1819 1820 1821 1822 1823
1701 1702 1703 1704 1705 1706 1707 1708 1710 1711 1712 1713 1714 1715 1716 1717 1718 1719 1720
1901 1902 1903 1904 1905 1906 1907 1908 1909 1910 1911 1912 1913 1914 1915 1916 1917 1918 1919 1920 1921 1922 1923 1924 1925 1926 1927 1928 1929
2001 2002 2003 2004 2005 2006 2007 2008 2009
2201 2202 2203 2204 2205 2206 2207 2208 2209 2210 2211 2212 2213 2214 2226 2227 2228
1603 1606 2106 2113
F5/01 F5/02 F7/01 F7/02 F7/05 F8/01 F8/02 F8/03 F8/04 F8/05 F9/01 F9/02 F9/03 F9/04 F9/05 F9/3A
G2/01 G2/02 G2/03 G3/01 G3/02 G3/03 G3/04 G3/05 G3/06 G3/06A G3/07 G3/4A G4/06 G4/07 G4/6A G5/01 G5/02
508 509 510 507

Plot Date: 4:54:10 pm,21 February 2025, ANUJC

File C:\12DS\DATA\WP-AKL-APP-02\P24-646 - DRURY CENTRE - STAGE 2 FAST TRACK_22237\02 DRAWINGS\01 ENG\P24-646-01-3000-RD_STORMWATER JOAL LAYOUT PLAN.DWG

REVISION DETAILS		INT	DATE
1	FOR RESOURCE CONSENT	AR	14/02/2025

SURVEYED	BJ
DESIGNED	AR
DRAWN	AR
CHECKED	TH
APPROVED	CD

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

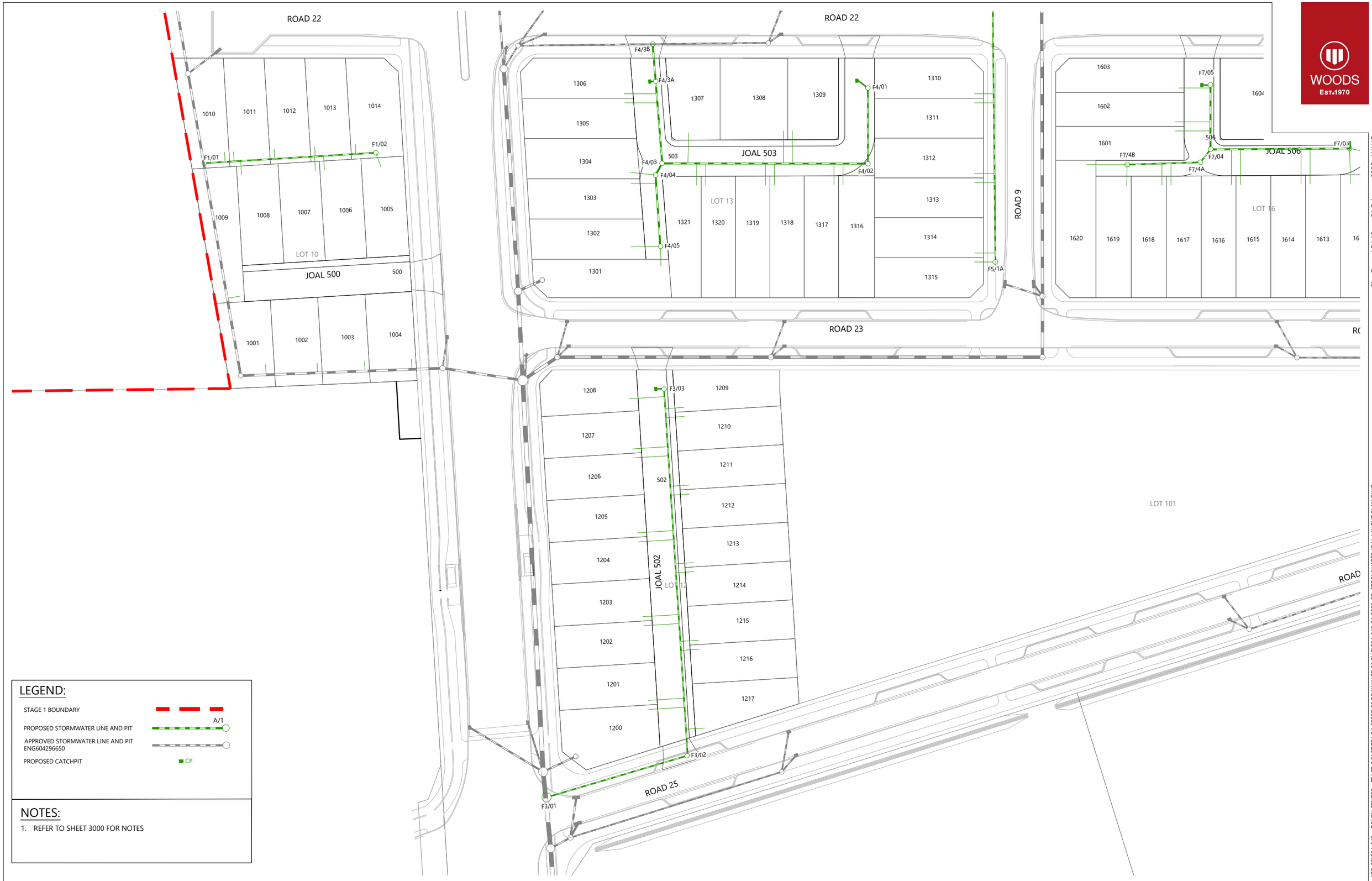
Kiwi Property

DRURY CENTRE SUPERLOTS

STORMWATER LAYOUT PLAN
SHEET 2 OF 4

N

STATUS	ISSUED FOR RC
SCALE	1:750 @ A3
COUNCIL	AUCKLAND COUNCIL
DWG NO	P24-646-01-3002
REV	1



LEGEND:

- STAGE 1 BOUNDARY
- PROPOSED STORMWATER LINE AND PIT — A/1
- APPROVED STORMWATER LINE AND PIT ENG604296650
- PROPOSED CATCHPIT — CP

NOTES:

1. REFER TO SHEET 3000 FOR NOTES

REVISION DETAILS		INT	DATE		
1	FOR RESOURCE CONSENT	AR	14/02/2025	SURVEYED	BJ
				DESIGNED	AR
				DRAWN	AR
				CHECKED	TH
				APPROVED	CD

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

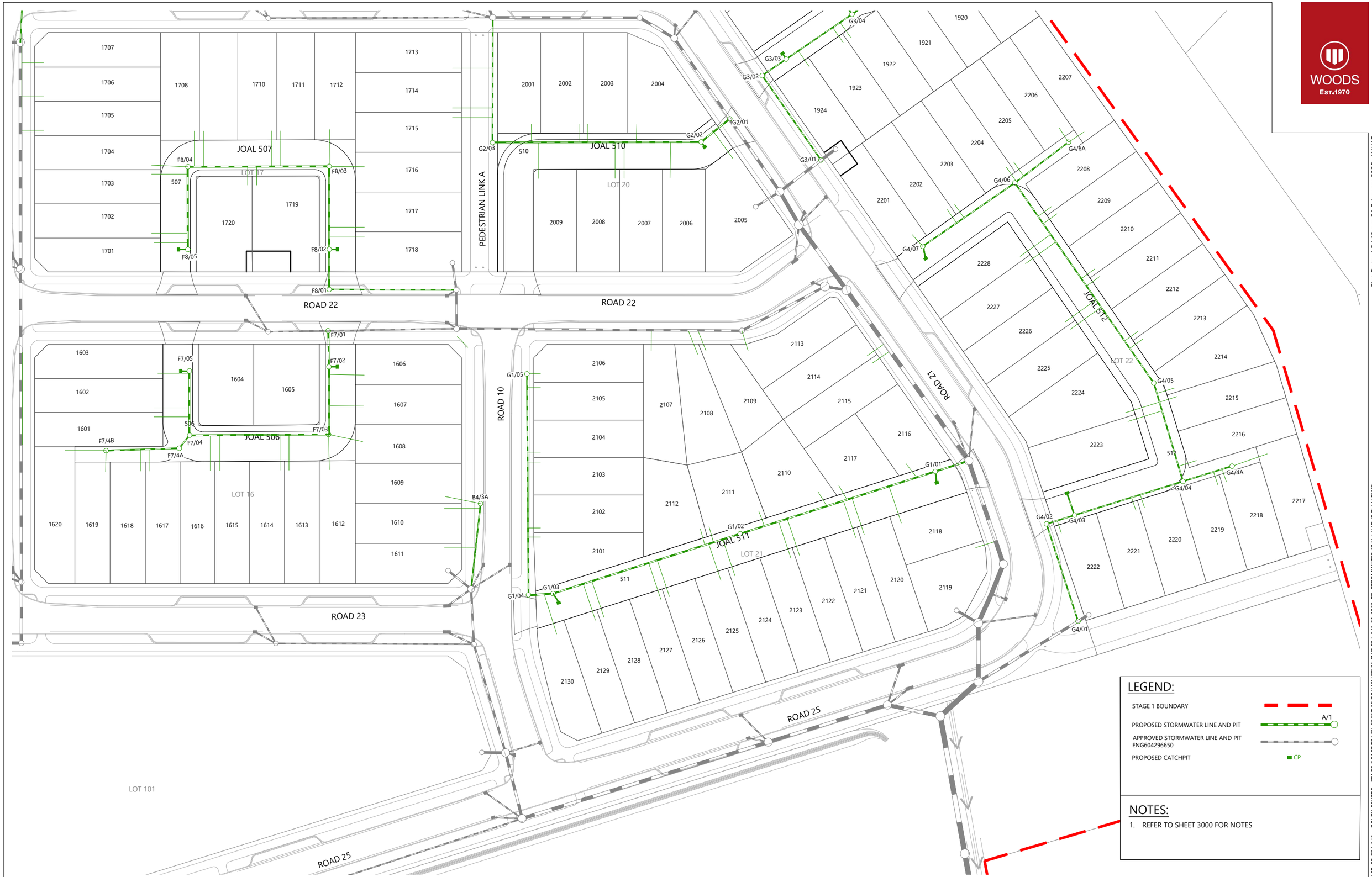
Kiwi Property

DRURY CENTRE SUPERLOTS

STORMWATER LAYOUT PLAN
SHEET 3 OF 4

STATUS	ISSUED FOR RC	REV	
SCALE	1:750 @ A3		1
COUNCIL	AUCKLAND COUNCIL		
DWG NO	P24-646-01-3003		

WOODS
Est.1970



LEGEND:

- STAGE 1 BOUNDARY
- PROPOSED STORMWATER LINE AND PIT — A/1
- APPROVED STORMWATER LINE AND PIT ENG604296650
- PROPOSED CATCHPIT — CP

NOTES:

1. REFER TO SHEET 3000 FOR NOTES

REVISION DETAILS		INT	DATE	SURVEYED	BJ
1	FOR RESOURCE CONSENT	AR	14/02/2025	DESIGNED	AR
				DRAWN	AR
				CHECKED	TH
				APPROVED	CD

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

Kiwi Property

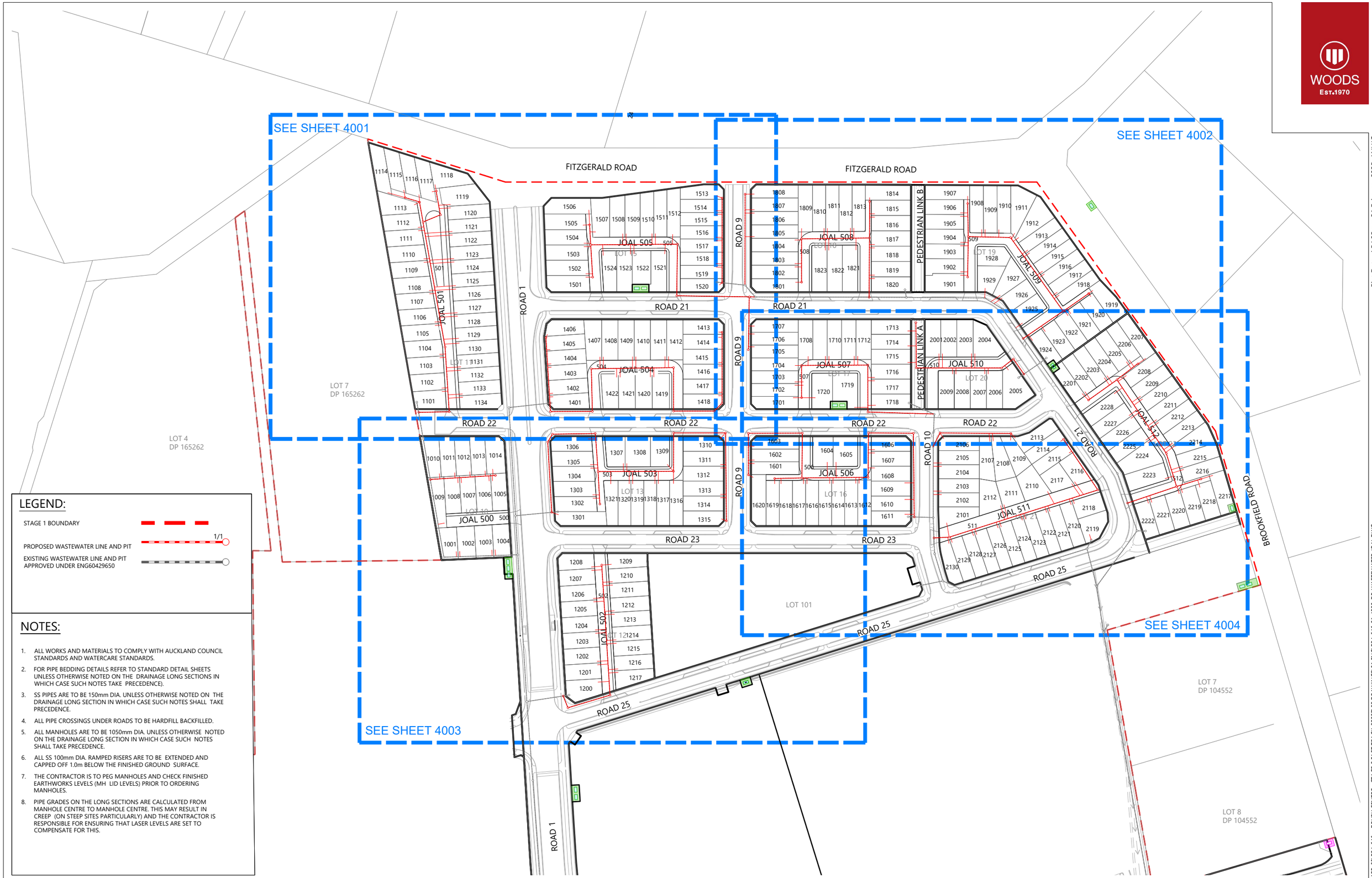
DRURY CENTRE SUPERLOTS

STORMWATER LAYOUT PLAN
SHEET 4 OF 4

STATUS	ISSUED FOR RC	REV
SCALE	1:750 @ A3	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P24-646-01-3004	

Plot Date: 4:54:13 pm,21 February 2025, ANUJC

File: C:\12DS\DATA\WP-AKL-APP-02\P24-646 - DRURY CENTRE - STAGE 2 FAST TRACK_2223\02 DRAWINGS\01 ENG\P24-646-01-3000-RD_STORMWATER JOAL LAYOUT PLAN.DWG



LEGEND:

- STAGE 1 BOUNDARY
- PROPOSED WASTEWATER LINE AND PIT 1/1
- EXISTING WASTEWATER LINE AND PIT APPROVED UNDER ENG60429650

NOTES:

1. ALL WORKS AND MATERIALS TO COMPLY WITH AUCKLAND COUNCIL STANDARDS AND WATERCARE STANDARDS.
2. FOR PIPE BEDDING DETAILS REFER TO STANDARD DETAIL SHEETS UNLESS OTHERWISE NOTED ON THE DRAINAGE LONG SECTIONS IN WHICH CASE SUCH NOTES TAKE PRECEDENCE).
3. SS PIPES ARE TO BE 150mm DIA. UNLESS OTHERWISE NOTED ON THE DRAINAGE LONG SECTION IN WHICH CASE SUCH NOTES SHALL TAKE PRECEDENCE.
4. ALL PIPE CROSSINGS UNDER ROADS TO BE HARDFILL BACKFILLED.
5. ALL MANHOLES ARE TO BE 1050mm DIA. UNLESS OTHERWISE NOTED ON THE DRAINAGE LONG SECTION IN WHICH CASE SUCH NOTES SHALL TAKE PRECEDENCE.
6. ALL SS 100mm DIA. RAMPED RISERS ARE TO BE EXTENDED AND CAPPED OFF 1.0m BELOW THE FINISHED GROUND SURFACE.
7. THE CONTRACTOR IS TO PEG MANHOLES AND CHECK FINISHED EARTHWORKS LEVELS (MH LID LEVELS) PRIOR TO ORDERING MANHOLES.
8. PIPE GRADES ON THE LONG SECTIONS ARE CALCULATED FROM MANHOLE CENTRE TO MANHOLE CENTRE. THIS MAY RESULT IN CREEP (ON STEEP SITES PARTICULARLY) AND THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT LASER LEVELS ARE SET TO COMPENSATE FOR THIS.

REVISION DETAILS		INT	DATE
1	FOR RESOURCE CONSENT	AR	14/02/2025

SURVEYED	BJ
DESIGNED	AR
DRAWN	AR
CHECKED	TH
APPROVED	CD

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

Kiwi Property

DRURY CENTRE SUPERLOTS

OVERALL WASTEWATER LAYOUT PLAN

STATUS	RESOURCE CONSENT
SCALE	1:1000 @ A3
COUNCIL	AUCKLAND COUNCIL
DWG NO	P24-646-01-4000
REV	1

Plot Date: 4:54:05 pm,21 February 2025, ANUJC
File: C:\12DS\DATA\WP-AKL-APP-02\P24-646 - DRURY CENTRE - STAGE 2 FAST TRACK_22237\02 DRAWINGS\01 ENG\P24-646-01-4000-DR_WASTEWATER JOAL.DWG

LEGEND:

- STAGE 1 BOUNDARY
- PROPOSED WASTEWATER LINE AND PIT 1/1
- EXISTING WASTEWATER LINE AND PIT APPROVED UNDER ENG60429650

NOTES:

1. REFER TO SHEET 4000 FOR NOTES

REVISION DETAILS		INT	DATE	SURVEYED	BJ
1	FOR RESOURCE CONSENT	AR	14/02/2025	DESIGNED	AR
				DRAWN	AR
				CHECKED	TH
				APPROVED	CD

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

Kiwi Property

DRURY CENTRE SUPERLOTS

WASTEWATER LAYOUT PLAN
SHEET 1 OF 4

STATUS	RESOURCE CONSENT	REV
SCALE	1:750 @ A3	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P24-646-01-4001	

Plot Date: 4:54:06 pm,21 February 2025, ANUJC

File: C:\12DS\DATA\WP-AKL-APP-02\P24-646 - DRURY CENTRE - STAGE 2 FAST TRACK_22237\02 DRAWINGS\01 ENG\P24-646-01-4000-DR_WASTEWATER JOAL.DWG

LEGEND:

STAGE 1 BOUNDARY

PROPOSED WASTEWATER LINE AND PIT 1/1

EXISTING WASTEWATER LINE AND PIT APPROVED UNDER ENG60429650

NOTES:

1. REFER TO SHEET 4000 FOR NOTES

REVISION DETAILS		INT	DATE		
1	FOR RESOURCE CONSENT	AR	14/02/2025	SURVEYED	BJ
				DESIGNED	AR
				DRAWN	AR
				CHECKED	TH
				APPROVED	CD

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

Kiwi Property

DRURY CENTRE SUPERLOTS

WASTEWATER LAYOUT PLAN
SHEET 2 OF 4

STATUS	RESOURCE CONSENT	REV
SCALE	1:750 @ A3	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P24-646-01-4002	

Plot Date: 4:54:06 pm,21 February 2025, ANUJC

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LEGEND:

- STAGE 1 BOUNDARY
- PROPOSED WASTEWATER LINE AND PIT 1/1
- EXISTING WASTEWATER LINE AND PIT APPROVED UNDER ENG60429650

NOTES:

1. REFER TO SHEET 4000 FOR NOTES

REVISION DETAILS		INT	DATE		
1	FOR RESOURCE CONSENT	AR	14/02/2025	SURVEYED	BJ
				DESIGNED	AR
				DRAWN	AR
				CHECKED	TH
				APPROVED	CD

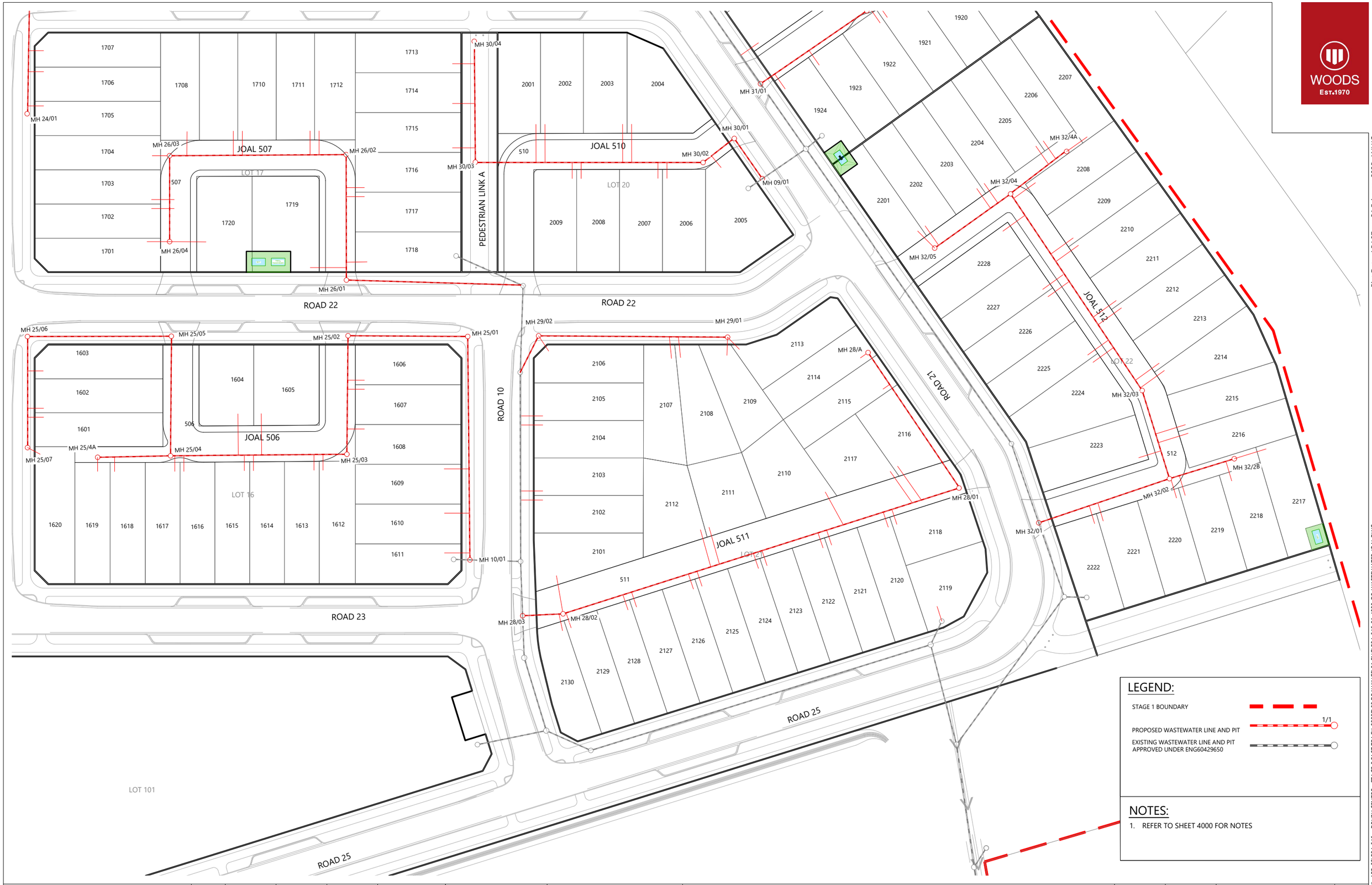
BUILDING B, LEVEL 1
8 NUGENT ST, GRAFTON,
AUCKLAND 1023
+64 9 308 9229
WOODS.CO.NZ

Kiwi Property

DRURY CENTRE SUPERLOTS

WASTEWATER LAYOUT PLAN
SHEET 3 OF 4

STATUS	RESOURCE CONSENT	REV	1
SCALE	1:750 @ A3		
COUNCIL	AUCKLAND COUNCIL		
DWG NO	P24-646-01-4003		



REVISION DETAILS		INT	DATE	SURVEYED	BJ
1	FOR RESOURCE CONSENT	AR	14/02/2025	DESIGNED	AR
				DRAWN	AR
				CHECKED	TH
				APPROVED	CD

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

Kiwi Property

DRURY CENTRE SUPERLOTS

WASTEWATER LAYOUT PLAN
SHEET 4 OF 4

STATUS	RESOURCE CONSENT	REV
SCALE	1:750 @ A3	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P24-646-01-4004	

WOODS
EST.1970

SEE SHEET 2001

SEE SHEET 2002

SEE SHEET 2003

SEE SHEET 2004

FITZGERALD ROAD

BROOKFIELD ROAD

ROAD 1

ROAD 9

ROAD 10

ROAD 21

ROAD 22

ROAD 23

ROAD 25

PEDESTRIAN LINK A

PEDESTRIAN LINK B

JOAL 500

JOAL 501

JOAL 502

JOAL 503

JOAL 504

JOAL 505

JOAL 506

JOAL 507

JOAL 508

JOAL 509

JOAL 510

JOAL 511

JOAL 512

LOT 7
DP 165262

LOT 101

LOT 7
DP 104552

LOT 8
DP 104552

LEGEND:

- STAGE 1 BOUNDARY
- PROPOSED 63mm ODPE WATER — 63 — 63 — 63 —
- PROPOSED WATER METER BANK — WMB
- APPROVED WATERMAIN UNDER ENG60429650 — 100 — 100 — / — 150 — - - 150 - - - / — 200 — - - 200 - - -

NOTES

1. ALL WORK AND MATERIALS TO COMPLY WITH WATERCARE CODE OF PRACTICE WATER SUPPLY ONLY v2.4. ANY AMBIGUITY BETWEEN THESE DRAWINGS AND WATERCARE STANDARDS ARE TO BE REFERRED TO THE ENGINEER FOR CLARIFICATION.
2. ALL WATERMAIN ROAD CROSSINGS ARE TO BE HARDFILL BACKFILLED.
3. THE CONTRACTOR IS RESPONSIBLE FOR TESTING AND STERILISATION IN PREPARTATION FOR CONNECTION APPLICATION. CONNECTIONS TO THE EXISTING MAIN(S) ONLY TO BE MADE BY WSL APPROVED CONTRACTORS.
4. WATERMAINS ARE TO BE INSTALLED 1.1m OFF THE ROAD RESERVE BOUNDARY. THE STANDARD LAY POSITION IS SHOWN ON THE TYPICAL ROAD CROSS SECTION DRAWING.
5. ALL CONNECTIONS TO EXISTING LIVE WATER SUPPLY TO BE COMPLETED BY VEOLIA.
6. ALL TEES ARE TO BE PE FLANGED DUCTILE IRON.
7. ALL PIPE SIZES SHOWN ARE INTERNAL DIAMETERS (NOMINAL BORE).
8. PIPE MATERIAL IS SPECIFIED AS FOLLLOWS:
   - 8.1. 25NB PE LOT CONNECTION IS 25mm ID (32mm OD) PE 80B SDR 11 PN 12.5.
   - 8.2. 50NB PE RIDERMAIN IS 50mm ID (63mm OD) PE 100 SDR 13.6 PN 12.5
   - 8.3. 100NB PE WATERMAIN IS 100mm ID (125mm OD) PE 100 SDR 13.6 PN 12.5
   - 8.4. 150NB PE WATERMAIN IS 150mm ID (180mm OD) PE 100 SDR 13.6 PN 12.5
   - 8.5. 200NB PE WATERMAIN IS 200mm ID (250mm OD) PE 100 SDR 13.6 PN 12.
9. PIPE FITTINGS, VALVES AND HYDRANTS SHOWN AT INCREASED SCALE. ALL VALVES AND HYDRANT SURFACE LIDS TO BE LOCATED EITHER ENTIRELY IN THE CONCRETE FOOTPATH OR BERM.

REVISION DETAILS		INT	DATE
1	FOR RESOURCE CONSENT	AR	14/02/2025

SURVEYED	BJ
DESIGNED	AR
DRAWN	AR
CHECKED	TH
APPROVED	CD

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

Kiwi Property

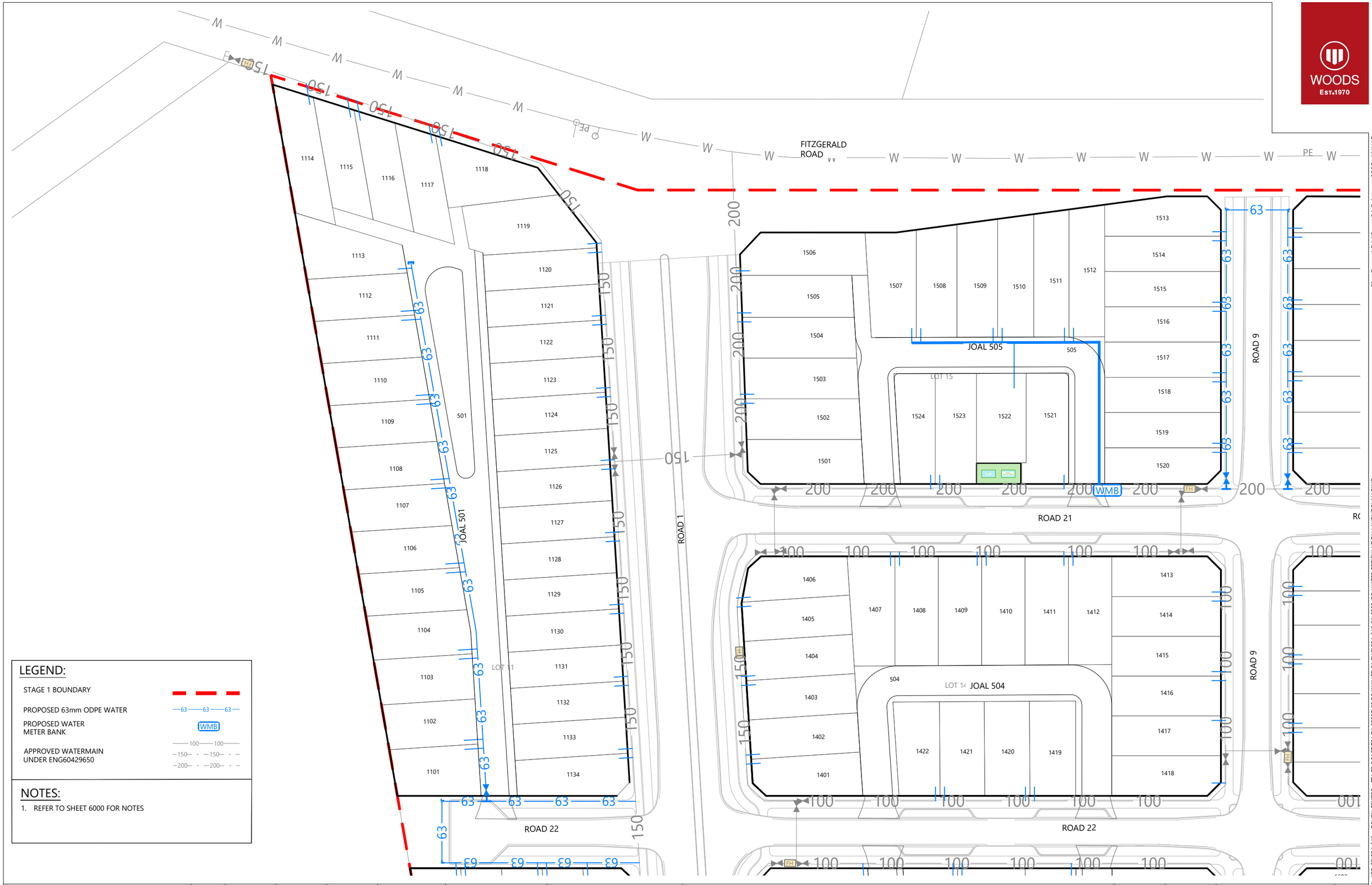
DRURY CENTRE SUPERLOTS

WATER RETICULATION LAYOUT PLAN

STATUS	RESOURCE CONSENT
SCALE	1:1000 @ A3
COUNCIL	AUCKLAND COUNCIL
DWG NO	P24-646-01-6000
REV	1

Plot Date: 4:54:13 pm,21 February 2025, ANUJC

File: C:\12DS\DATA\WP-AKL-APP-02\P24-646 - DRURY CENTRE - STAGE 2 FAST TRACK_22237\02 DRAWINGS\01 ENG\P24-646-01-6000-DR-WATER RETICULATION LAYOUT PLAN.DWG



LEGEND:

- STAGE 1 BOUNDARY
- PROPOSED 63mm ODPE WATER
- PROPOSED WATER METER BANK (WMB)
- APPROVED WATERMAIN UNDER ENG60429650

NOTES:

1. REFER TO SHEET 6000 FOR NOTES

REVISION DETAILS		INT	DATE		
1	FOR RESOURCE CONSENT	AR	14/02/2025	SURVEYED	BJ
				DESIGNED	AR
				DRAWN	AR
				CHECKED	TH
				APPROVED	CD

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

Kiwi Property

DRURY CENTRE SUPERLOTS

WATER RETICULATION LAYOUT PLAN
SHEET 1 OF 4

STATUS	RESOURCE CONSENT
SCALE	1:750 @ A3
COUNCIL	AUCKLAND COUNCIL
DWG NO	P24-646-01-6001
REV	1

Plot Date: 4:54:13 pm,21 February 2025, ANUJC

File: C:\12DS\DATA\WP-AKL-APP-02\P24-646 - DRURY CENTRE - STAGE 2 FAST TRACK_22237\02 DRAWINGS\01 ENG\P24-646-01-6000-DR-WATER RETICULATION LAYOUT PLAN.DWG

LEGEND:

- STAGE 1 BOUNDARY
- PROPOSED 63mm ODPE WATER — 63 — 63 — 63 —
- PROPOSED WATER METER BANK — WMB
- APPROVED WATERMAIN UNDER ENG60429650 — 100 — 100 — / — 150 — - — 150 — - — / — 200 — - — 200 — - —

NOTES:

1. REFER TO SHEET 6000 FOR NOTES

Plot Date: 4:54:14 pm,21 February 2025, ANUJC

File: C:\12DS\DATA\WP-AKL-APP-02\P24-646 - DRURY CENTRE - STAGE 2 FAST TRACK_22237\02 DRAWINGS\01 ENG\P24-646-01-6000-DR-WATER RETICULATION LAYOUT PLAN.DWG

REVISION DETAILS		INT	DATE
1	FOR RESOURCE CONSENT	AR	14/02/2025

SURVEYED	BJ
DESIGNED	AR
DRAWN	AR
CHECKED	TH
APPROVED	CD

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

Kiwi Property

DRURY CENTRE SUPERLOTS

WATER RETICULATION LAYOUT PLAN
SHEET 2 OF 4

STATUS	RESOURCE CONSENT
SCALE	1:750 @ A3
COUNCIL	AUCKLAND COUNCIL
DWG NO	P24-646-01-6002
REV	1

LEGEND:

STAGE 1 BOUNDARY	
PROPOSED 63mm ODPE WATER	63 63 63
PROPOSED WATER METER BANK	WMB
APPROVED WATERMAIN UNDER ENG60429650	100 100 / 150 150 / 200 200

NOTES:

1. REFER TO SHEET 6000 FOR NOTES

REVISION DETAILS		INT	DATE		
1	FOR RESOURCE CONSENT	AR	14/02/2025	SURVEYED	BJ
				DESIGNED	AR
				DRAWN	AR
				CHECKED	TH
				APPROVED	CD

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

Kiwi Property

DRURY CENTRE SUPERLOTS

WATER RETICULATION LAYOUT PLAN
SHEET 3 OF 4

STATUS	RESOURCE CONSENT
SCALE	1:750 @ A3
COUNCIL	AUCKLAND COUNCIL
DWG NO	P24-646-01-6003
REV	1

Plot Date: 4:54:14 pm,21 February 2025, ANUJC

File: C:\12DS\DATA\WP-AKL-APP-02\P24-646 - DRURY CENTRE - STAGE 2 FAST TRACK_22237\02 DRAWINGS\01 ENG\P24-646-01-6000-DR-WATER RETICULATION LAYOUT PLAN.DWG

REVISION DETAILS		INT	DATE	SURVEYED	BJ
1	FOR RESOURCE CONSENT	AR	14/02/2025	DESIGNED	AR
				DRAWN	AR
				CHECKED	TH
				APPROVED	CD

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

Kiwi Property

DRURY CENTRE SUPERLOTS

WATER RETICULATION LAYOUT PLAN
SHEET 4 OF 4

STATUS	RESOURCE CONSENT	REV
SCALE	1:750 @ A3	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P24-646-01-6004	

Plot Date: 4:54:14 pm,21 February 2025, ANUJC
File C:\12DSDATA\WP-AKL-APP-02\P24-646 - DRURY CENTRE - STAGE 2 FAST TRACK_22237\02 DRAWINGS\01 ENG\P24-646-01-6000-DR-WATER RETICULATION LAYOUT PLAN.DWG