

IN THE MATTER of the Resource Management Act 1991(RMA)

AND

IN THE MATTER of Drury Metropolitan Centre Consolidated Stages
1 and 2 (the Project)

JOINT WITNESS STATEMENT (JWS) IN RELATION TO:

Topic: Stormwater and Flooding (2)

Date 9 October 2025

Expert Conferencing Held on: 9 October 2025

Venue: B&A Offices and Online

Independent Facilitator: N/A

Admin Support: Lisa Mattson

1 Attendance:

1.1 The list of participants is included in the schedule at the end of this Statement.

2 Basis of Attendance and Environment Court Practice Note 2023

2.1 All participants agree to the following:

- (a) The Environment Court Practice Note 2023 provides relevant guidance and protocols for the expert conferencing session;
- (b) They will comply with the relevant provisions of the Environment Court Practice Note 2023;
- (c) They will make themselves available to appear before the Panel;
- (d) This statement is to be filed with the Panel and posted on the Council's website.

3 Matters considered at Conferencing – Agenda and Outcomes

3.1 JWS para 3.4.1 - OLFP calculations

Attachment A is the updated contour plan prepared by Woods.

3.1.1 CD provided a summary of the overland flow path assessment undertaken. PW, CD, and BP confirm that this contour plan demonstrates that under the requirements of the SWCoP that there are no additional stormwater flows contributing from Stage One to Stage Two.

3.1.2 Proposed condition – At Engineering Plan Approval (EPA) for the rock chute, the consent holder must demonstrate that any additional overland flows originating from Stage One have been provided for in the design of the rock chute.

3.1.3 All experts agree that the condition proposed in para 3.1.2 is appropriate to resolve this matter.

3.2 JWS para 3.9.2 and 3.9.3 - Public and Private Stormwater

The applicant's engineers have pre-circulated drawings showing the public and private stormwater network in question. This is provided as Attachment B.

3.2.1 MI, DS, and GBL request that the outlet infrastructure from the communal devices labelled as MH A8-03, Outlet Wetland 2-2, and the outlet infrastructure from the raingarden in Lot 605 remain in private ownership.

3.2.2 The applicant's engineers agree with this approach. The applicant's engineers confirm that the drawings in Attachment B demonstrate which part of the piped stormwater network will be public and vested (excluding the items to be private as listed in para 3.2.1) and will be reflected in the revised proposed consent conditions.

3.2.3 The applicant's experts confirm NZTA have been approached for comment with regard to this, and that no response has been received at the time of this JWS.

3.2.4 CD confirms that the following lots will connect to the publicly vested stormwater network, being Lots 31, 33, 38, 40, 41, 42, and 43. DS, MI, and HJ confirm that this is acceptable. MW will update the proposed conditions to reflect the public stormwater network that will serve these lots.

3.2.5 All experts agree that additional conditions 38A and 38B proposed by Healthy Waters in para 3.12.4 of JWS(1) are no longer required based on the agreement outlined in para 3.2.2 and 3.2.4.

3.3 JWS para 3.11.9 - LFR / SMAF-1 Retention Requirements

3.3.1 The applicant's stormwater experts have proposed an additional condition to address the concern raised by Healthy Waters in JWS(1) para 3.11.9.

- 3.3.2 Proposed condition 7A. Prior to lodgement of building consent, the consent holder must provide the detailed design for the private communal devices Wetland 2-1 and Wetland 2-2 to Auckland Council Healthy Waters for certification as to the following.

The consent holder must either:

- (a) ensure that retention via re-use of LFR roofed areas is to be achieved at source, or
- (b) if retention is substituted as detention, then undertake an assessment to demonstrate discharge of stormwater from contributing catchments to Wetland 2-1 and Wetland 2-2 achieves water quality treatment in accordance with GD01/TP10.

Where this assessment in (b) demonstrates that the water quality treatment of Wetland 2-1 or Wetland 2-2 does not achieve the water quality treatment requirements in accordance with GD01/TP10 the consent holder must then provide water quality treatment at source for LFR roofed areas in accordance with GD01/TP10 or equivalent (e.g. proprietary devices).

- 3.3.3 All experts agree that the proposed condition wording sufficiently addresses the concern raised.

4 PARTICIPANTS TO JOINT WITNESS STATEMENT

- 4.1 The participants to this Joint Witness Statement, as listed below, confirm that:
- (a) They agree that the basis of their participation and the outcome(s) of the expert conferencing are as recorded in this Joint Witness Statement; and
 - (b) They agree to the introduction of the attached information – Refer to paragraph 3.1 and 3.2 above; and
 - (c) They have read the Environment Court’s Practice Note 2023 and agree to comply with it; and
 - (d) The matters addressed in this statement are within their area of expertise; and
 - (e) As this session was held both in-person and online, in the interests of efficiency, it was agreed that each expert would verbally confirm their position in relation to this para 4.1 to the Independent Facilitator and the other experts and this is recorded in the schedule below.

Confirmed: 9 October 2025

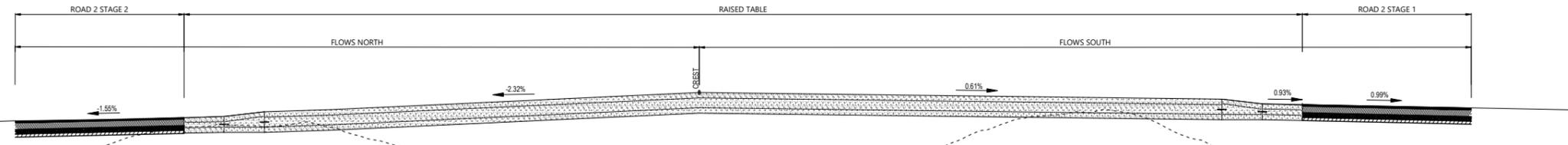
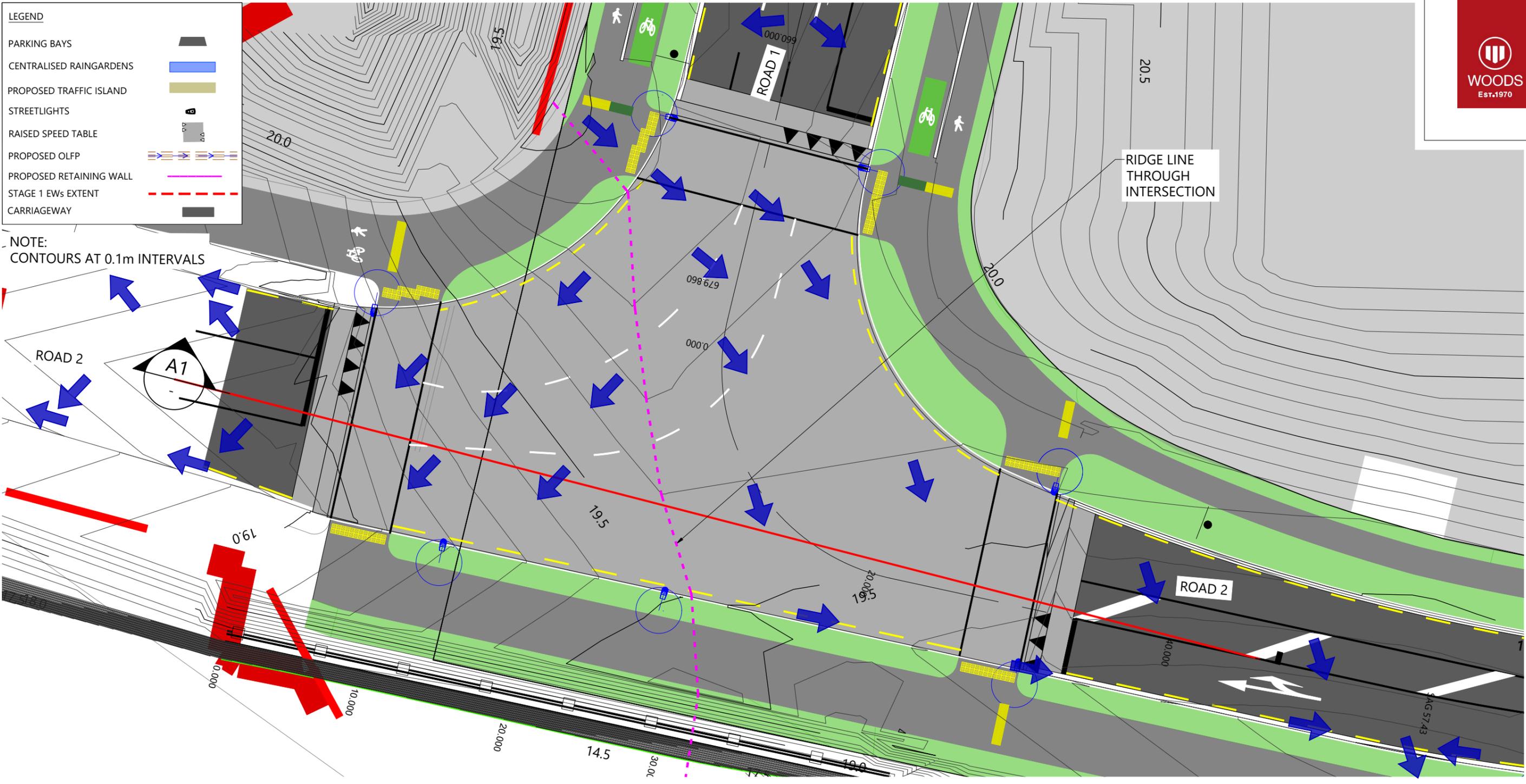
EXPERT’S NAME & EXPERTISE	PARTY	EXPERT’S CONFIRMATION REFER PARA 4.1
Nigel Mark-Brown (NMB), Stormwater Engineer	Specialist Advisor to the Panel	Yes
Pranil Wadan (PW), Stormwater Engineer	Kiwi Property (Applicant) Consultant	Yes

Bidara Pathirage (BP), Stormwater Engineer	Kiwi Property (Applicant) Consultant	Yes
Nick Roberts (NR), Planning	Kiwi Property (Applicant) Consultant	Yes
Mary Wong (MW), Planning	Kiwi Property (Applicant) Consultant	Yes
Colin Dryland (CD), Engineering	Kiwi Property (Applicant) Consultant	Yes
Mark Iszard (MI), Stormwater Engineer	Auckland Council Employee - Auckland Council, Healthy Waters	Yes
Hillary Johnston (HJ), Stormwater Engineer	Auckland Council Consultant	Yes
Dali Suljic (DS), Stormwater Engineer	Auckland Council Consultant	Yes
Martin Meyer (MM), Stormwater Engineer	Auckland Council Employee – Auckland Council	Yes
Griffin Benton-Lynne (GBL), Stormwater Engineer	Auckland Transport Consultant	Yes

LEGEND

- PARKING BAYS
- CENTRALISED RAINGARDENS
- PROPOSED TRAFFIC ISLAND
- STREETLIGHTS
- RAISED SPEED TABLE
- PROPOSED OLFP
- PROPOSED RETAINING WALL
- STAGE 1 EWs EXTENT
- CARRIAGEWAY

NOTE:
CONTOURS AT 0.1m INTERVALS



SECTION A1
SCALE: H:1:250 @ A3, V:1:125 @ A3

REVISION DETAILS	INT	DATE	SURVEYED	
1 ISSUED FOR RFI	GW	22/08/24	DESIGNED	AR
2 CROSS SECTION ADDED	GW	09/10/25	DRAWN	AR
			CHECKED	GW
			APPROVED	GW



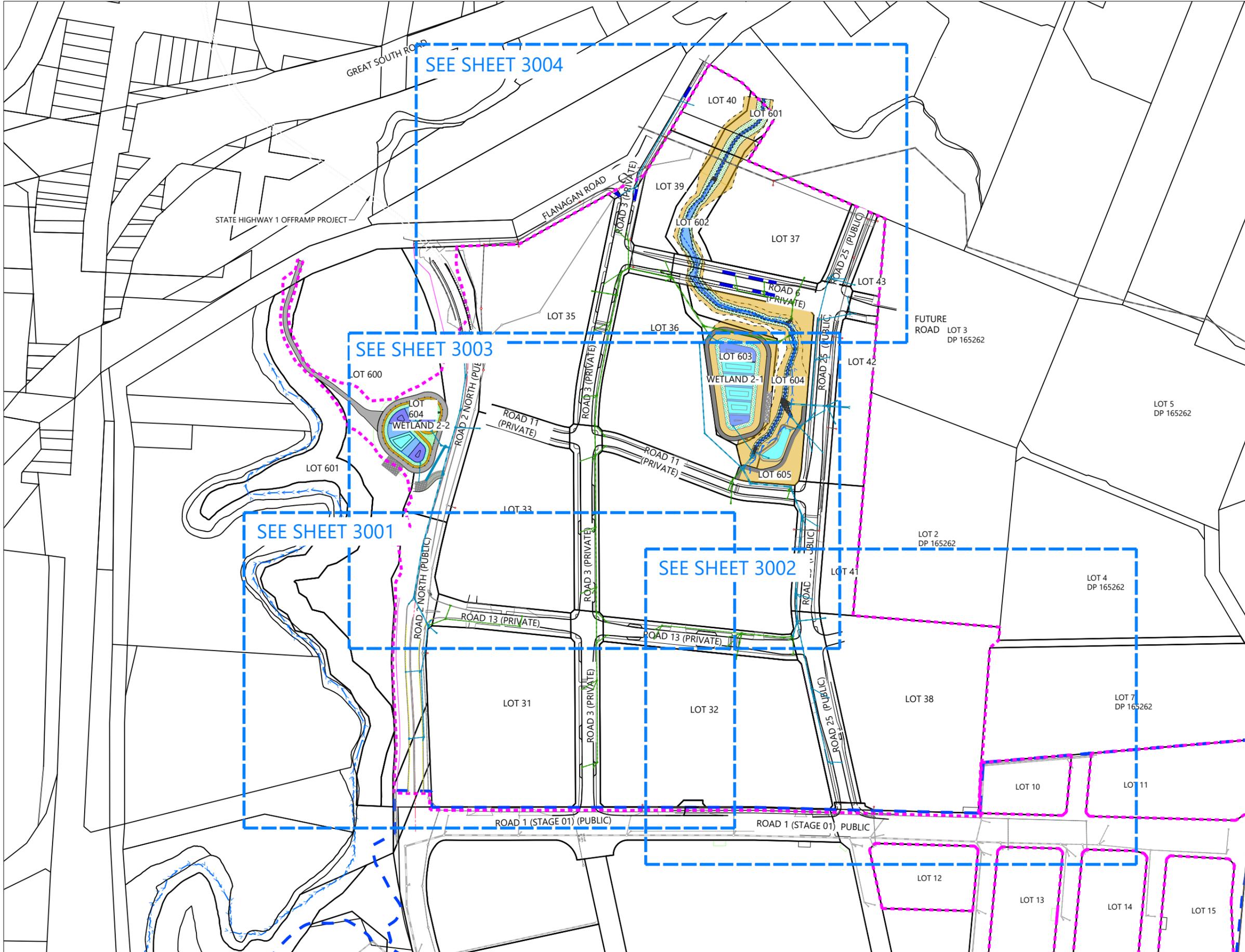
BUILDING B, LEVEL 1
8 NUGENT ST, GRAFTON,
AUCKLAND 1023
+64 9 308 9229
WOODS.CO.NZ



DRURY CENTRE
ROAD 1 AND ROAD 2 INTERSECTION DETAIL



STATUS	FOR EPA	REV
SCALE	1:250 @ A3	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P23-315-01-2053-RD	



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	A/1
PROPOSED STORMWATER PUBLIC	A/1
PROPOSED PRIVATE STORMWATER	1/1
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	
9 FOR S67 RESPONSE	RO	23/07/25	DESIGNED	MK
10 FOR S67 RESPONSE	SM	15/08/25	DRAWN	MK
11 FOR S67 RESPONSE	RO	17/09/25	CHECKED	GW
12 FOR S67 RESPONSE	RO	7/10/25	APPROVED	CD



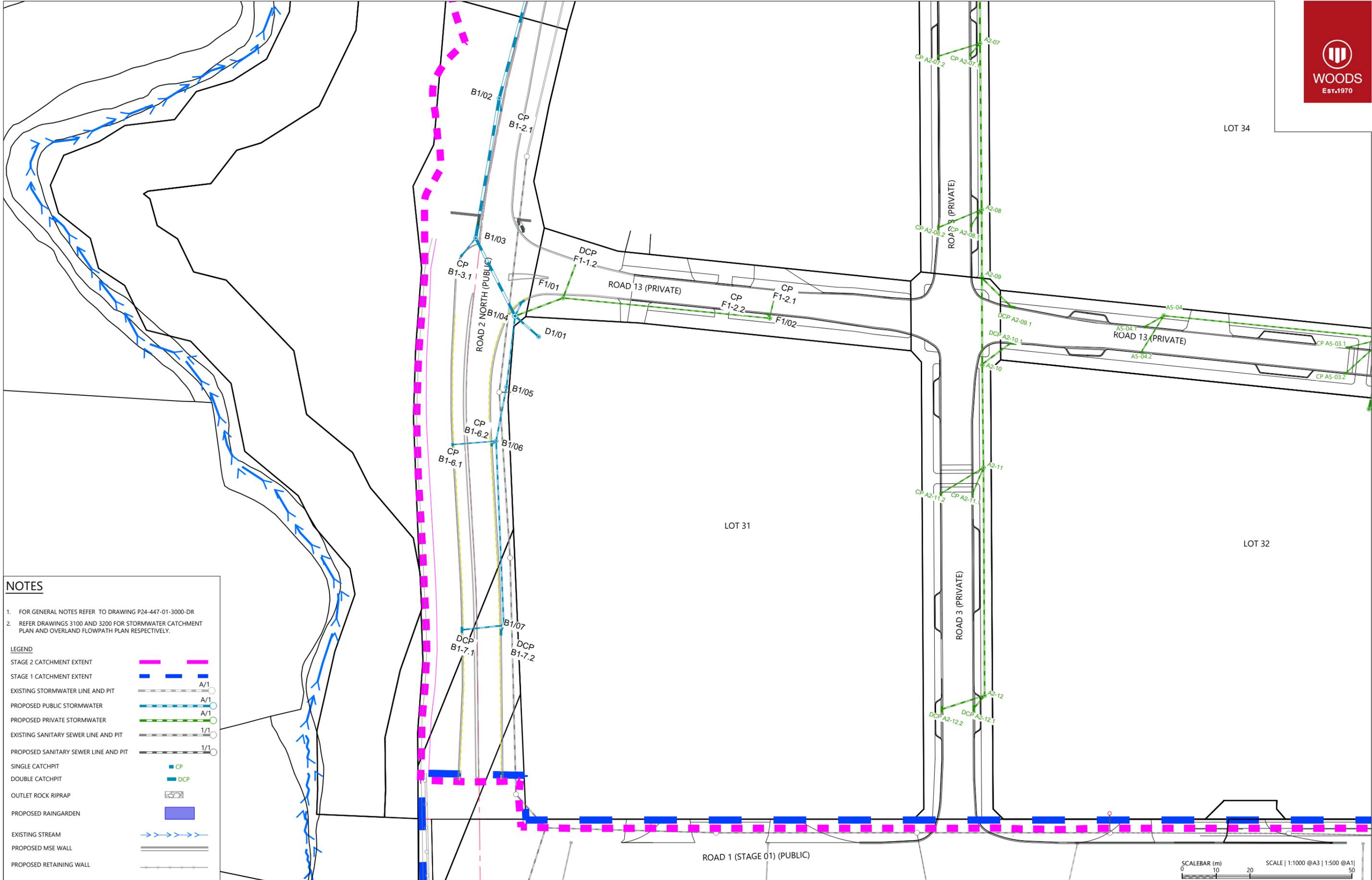
BUILDING B, LEVEL 1
8 NUGENT ST, GRAFTON,
AUCKLAND 1023
+64 9 308 9229
WOODS.CO.NZ



DRURY CENTRE-STAGE 2
OVERALL STORMWATER LAYOUT PLAN



STATUS	FOR S67 RESPONSE	REV
SCALE	1:3000 @ A3	12
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P24-447-01-3000-DR	



NOTES

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

LEGEND

- STAGE 2 CATCHMENT EXTENT: [Pink dashed line]
- STAGE 1 CATCHMENT EXTENT: [Blue dashed line]
- EXISTING STORMWATER LINE AND PIT: [Grey dashed line]
- PROPOSED PUBLIC STORMWATER: [Blue dashed line with A/1 symbol]
- PROPOSED PRIVATE STORMWATER: [Green dashed line with A/1 symbol]
- EXISTING SANITARY SEWER LINE AND PIT: [Grey dashed line with 1/1 symbol]
- PROPOSED SANITARY SEWER LINE AND PIT: [Black dashed line with 1/1 symbol]
- SINGLE CATCHPIT: [Green square with CP symbol]
- DOUBLE CATCHPIT: [Blue square with DCP symbol]
- OUTLET ROCK RIPRAP: [Patterned rectangle]
- PROPOSED RAINGARDEN: [Blue rectangle]
- EXISTING STREAM: [Blue line with arrows]
- PROPOSED MSE WALL: [Double parallel lines]
- PROPOSED RETAINING WALL: [Line with circles]

REVISION DETAILS	INT	DATE	SURVEYED	
9 FOR S67 RESPONSE	RO	23/07/25	DESIGNED	MK
10 FOR S67 RESPONSE	SM	15/08/25	DRAWN	MK
11 FOR S67 RESPONSE	RO	17/09/25	CHECKED	GW
12 FOR S67 RESPONSE	RO	7/10/25	APPROVED	CD



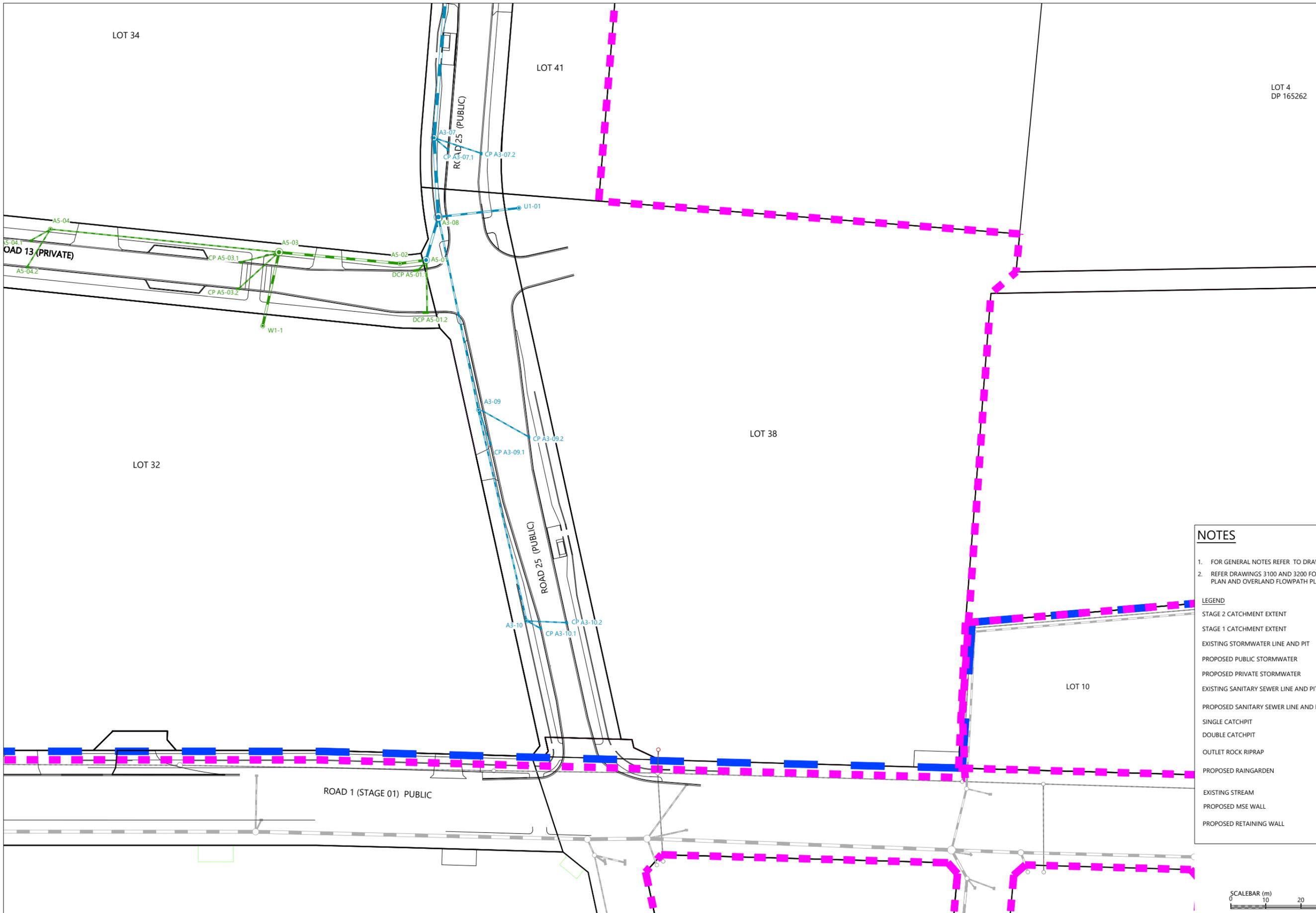
BUILDING B, LEVEL 1
8 NUGENT ST, GRAFTON,
AUCKLAND 1023
+64 9 308 9229
WOODS.CO.NZ



DRURY CENTRE-STAGE 2
STORMWATER LAYOUT PLAN (SHEET 1 OF 4)



STATUS	FOR S67 RESPONSE	REV
SCALE	1:1000 @ A3	12
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P24-447-01-3001-DR	



NOTES

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

LEGEND

- STAGE 2 CATCHMENT EXTENT: Pink dashed line
- STAGE 1 CATCHMENT EXTENT: Blue dashed line
- EXISTING STORMWATER LINE AND PIT: Grey dashed line with circle
- PROPOSED PUBLIC STORMWATER: Blue dashed line with circle
- PROPOSED PRIVATE STORMWATER: Green dashed line with circle
- EXISTING SANITARY SEWER LINE AND PIT: Grey dashed line with circle
- PROPOSED SANITARY SEWER LINE AND PIT: Black dashed line with circle
- SINGLE CATCHPIT: Blue square with 'CP'
- DOUBLE CATCHPIT: Blue square with 'DCP'
- OUTLET ROCK RIPRAP: Square with diagonal lines
- PROPOSED RAINGARDEN: Blue rectangle
- EXISTING STREAM: Blue line with arrows
- PROPOSED MSE WALL: Double parallel lines
- PROPOSED RETAINING WALL: Line with circles



REVISION DETAILS	INT	DATE	SURVEYED	
9 FOR S67 RESPONSE	RO	23/07/25	DESIGNED	MK
10 FOR S67 RESPONSE	SM	15/08/25	DRAWN	MK
11 FOR S67 RESPONSE	RO	17/09/25	CHECKED	GW
12 FOR S67 RESPONSE	RO	7/10/25	APPROVED	CD



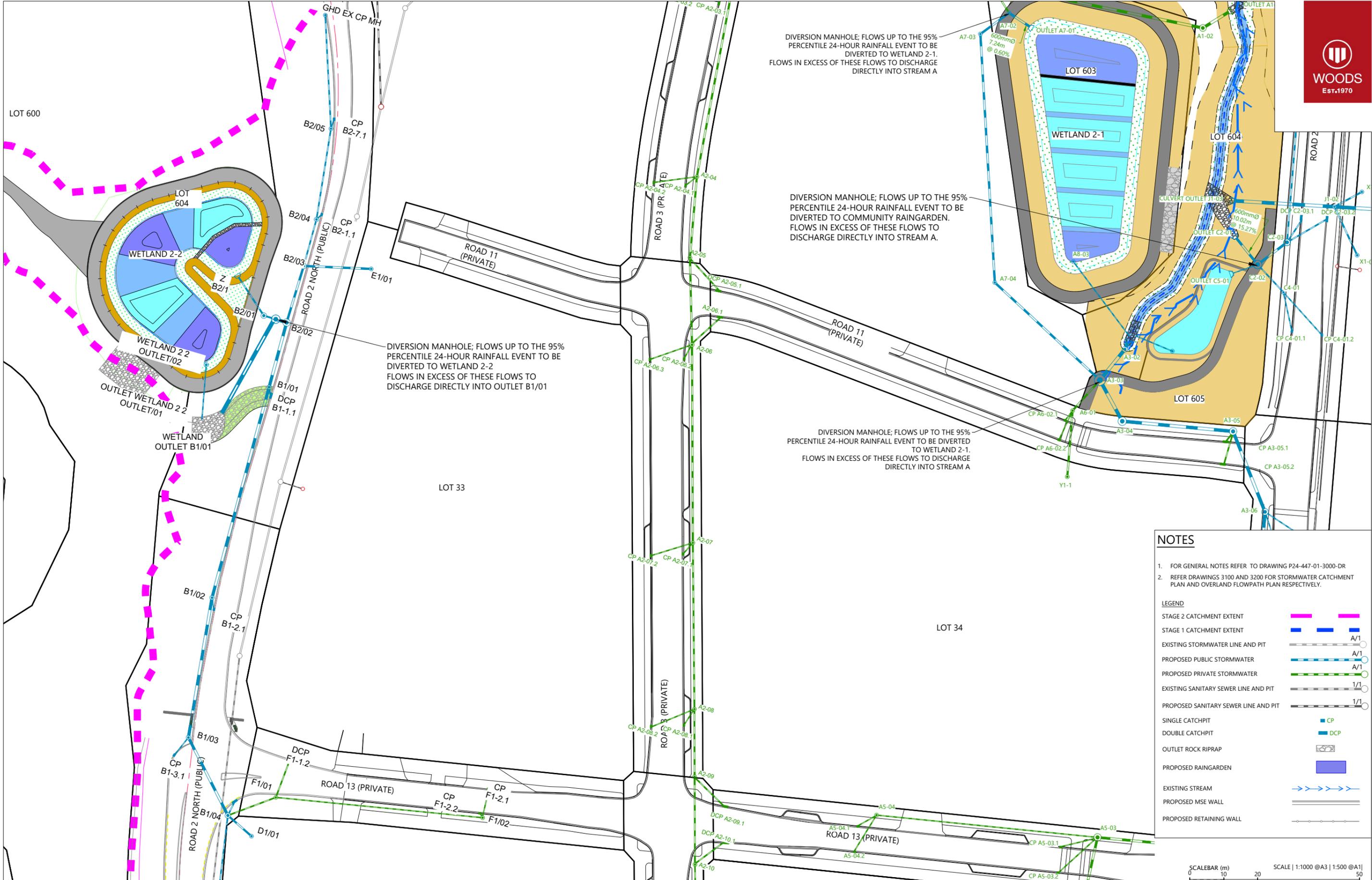
BUILDING B, LEVEL 1
8 NUGENT ST, GRAFTON,
AUCKLAND 1023
+64 9 308 9229
WOODS.CO.NZ



DRURY CENTRE-STAGE 2
STORMWATER LAYOUT PLAN (SHEET 2 OF 4)



STATUS	FOR S67 RESPONSE	REV
SCALE	1:1000 @ A3	12
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P24-447-01-3002-DR	



DIVERSION MANHOLE; FLOWS UP TO THE 95% PERCENTILE 24-HOUR RAINFALL EVENT TO BE DIVERTED TO WETLAND 2-1. FLOWS IN EXCESS OF THESE FLOWS TO DISCHARGE DIRECTLY INTO STREAM A

DIVERSION MANHOLE; FLOWS UP TO THE 95% PERCENTILE 24-HOUR RAINFALL EVENT TO BE DIVERTED TO COMMUNITY RAINGARDEN. FLOWS IN EXCESS OF THESE FLOWS TO DISCHARGE DIRECTLY INTO STREAM A.

DIVERSION MANHOLE; FLOWS UP TO THE 95% PERCENTILE 24-HOUR RAINFALL EVENT TO BE DIVERTED TO WETLAND 2-2. FLOWS IN EXCESS OF THESE FLOWS TO DISCHARGE DIRECTLY INTO OUTLET B1/01

DIVERSION MANHOLE; FLOWS UP TO THE 95% PERCENTILE 24-HOUR RAINFALL EVENT TO BE DIVERTED TO WETLAND 2-1. FLOWS IN EXCESS OF THESE FLOWS TO DISCHARGE DIRECTLY INTO STREAM A

NOTES

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

LEGEND

- STAGE 2 CATCHMENT EXTENT: [Pink dashed line]
- STAGE 1 CATCHMENT EXTENT: [Blue dashed line]
- EXISTING STORMWATER LINE AND PIT: [Blue dashed line with circles]
- PROPOSED PUBLIC STORMWATER: [Blue solid line with circles]
- PROPOSED PRIVATE STORMWATER: [Green solid line with circles]
- EXISTING SANITARY SEWER LINE AND PIT: [Grey dashed line with circles]
- PROPOSED SANITARY SEWER LINE AND PIT: [Grey solid line with circles]
- SINGLE CATCHPIT: [Blue square]
- DOUBLE CATCHPIT: [Blue square]
- OUTLET ROCK RIPRAP: [Grey hatched area]
- PROPOSED RAINGARDEN: [Blue shaded area]
- EXISTING STREAM: [Blue line with arrows]
- PROPOSED MSE WALL: [Blue line with vertical dashes]
- PROPOSED RETAINING WALL: [Grey line with vertical dashes]



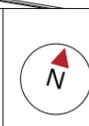
REVISION DETAILS	INT	DATE	SURVEYED	
9 FOR S67 RESPONSE	RO	23/07/25	DESIGNED	MK
10 FOR S67 RESPONSE	SM	15/08/25	DRAWN	MK
11 FOR S67 RESPONSE	RO	17/09/25	CHECKED	GW
12 FOR S67 RESPONSE	RO	7/10/25	APPROVED	CD

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



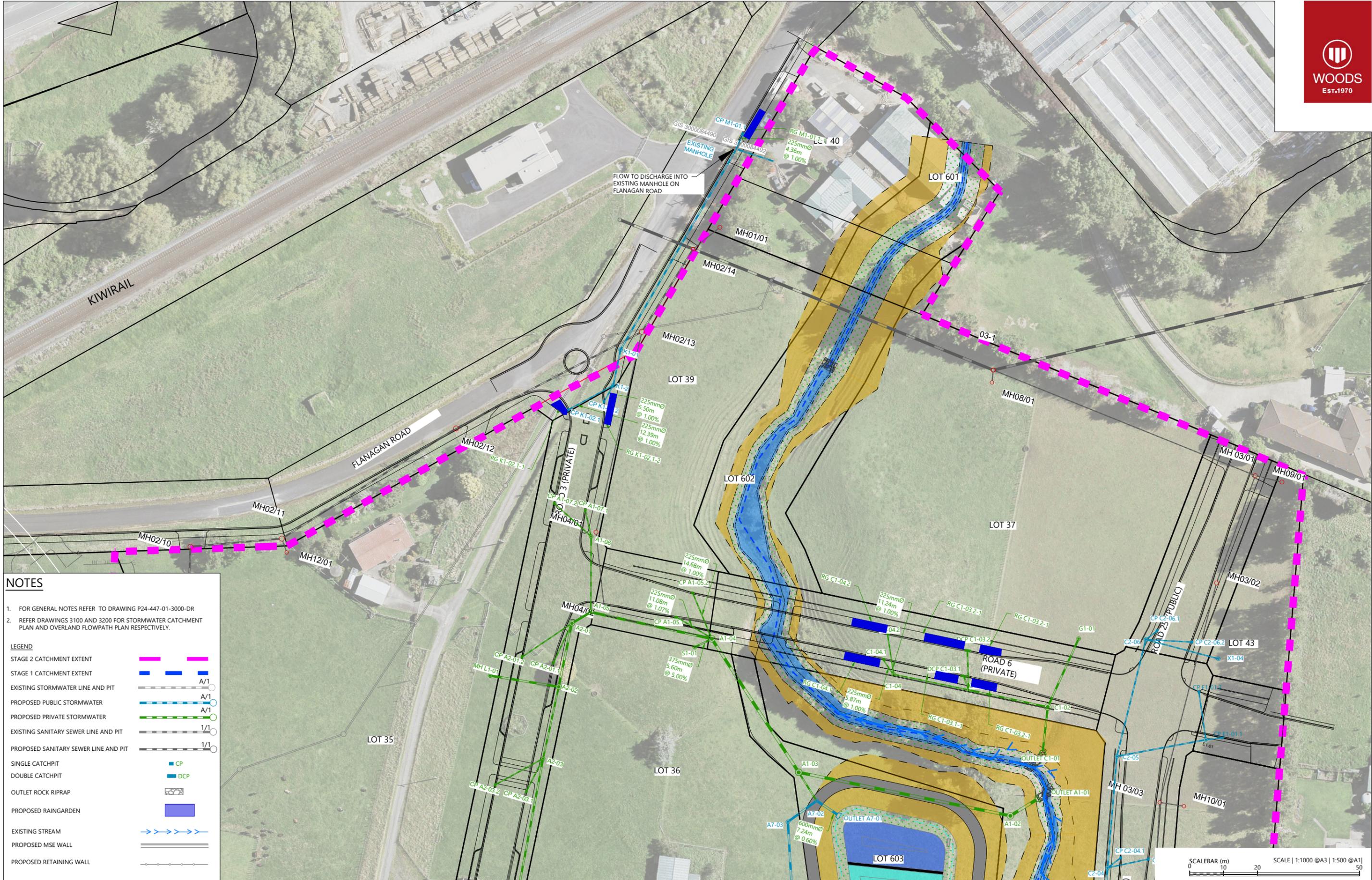
DRURY CENTRE-STAGE 2

STORMWATER LAYOUT PLAN (SHEET 3 OF 4)



STATUS	FOR S67 RESPONSE	REV
SCALE	1:1000 @ A3	12
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P24-447-01-3003-DR	

Plot Date: 2:58:56 pm, 7 October 2025, RICARDOO
File: C:\1205\DATA\WP-AKI-APP-02\P24-447 - DRURY CENTRE - STAGE 2_2214002 DRAWINGS\01 ENG\P24-447-01-3000-DR_STORMWATER LAYOUT PLAN.DWG



NOTES

- FOR GENERAL NOTES REFER TO DRAWING P24-447-01-3000-DR
- 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 PUBLIC STORMWATER	A/1
PROPOSED PRIVATE STORMWATER	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	
9 FOR S67 RESPONSE	RO	23/07/25	DESIGNED	MK
10 FOR S67 RESPONSE	SM	15/08/25	DRAWN	MK
11 FOR S67 RESPONSE	RO	17/09/25	CHECKED	GW
12 FOR S67 RESPONSE	RO	7/10/25	APPROVED	CD

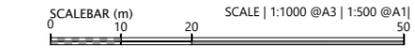


BUILDING B, LEVEL 1
8 NUGENT ST, GRAFTON,
AUCKLAND 1023
+64 9 308 9229

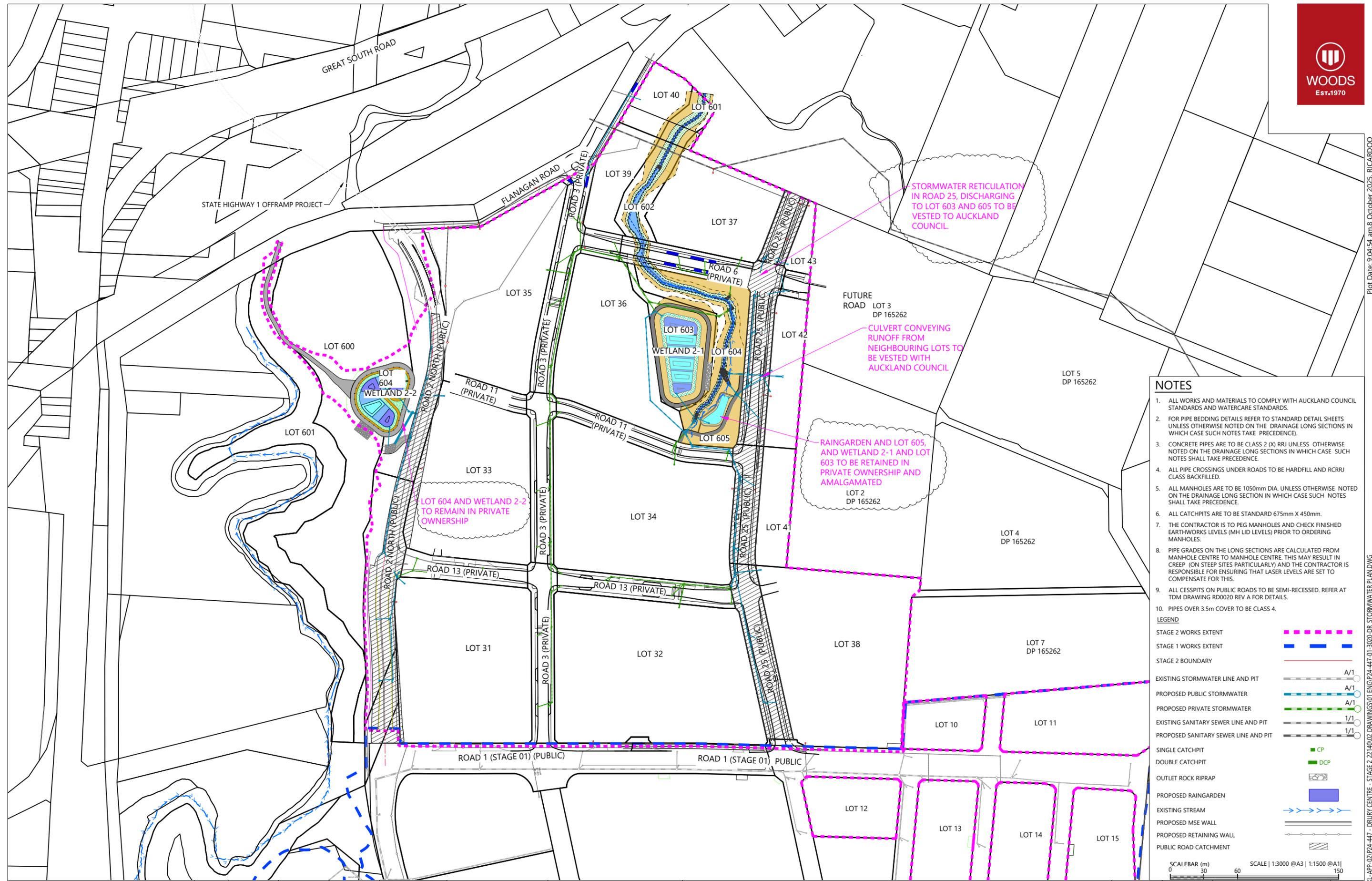


WOODS.CO.NZ

DRURY CENTRE-STAGE 2
STORMWATER LAYOUT PLAN (SHEET 4 OF 4)



STATUS	FOR S67 RESPONSE	REV
SCALE	1:1000 @ A3	12
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P24-447-01-3004-DR	



STORMWATER RETICULATION IN ROAD 25, DISCHARGING TO LOT 603 AND 605 TO BE VESTED TO AUCKLAND COUNCIL.

CULVERT CONVEYING RUNOFF FROM NEIGHBOURING LOTS TO BE VESTED WITH AUCKLAND COUNCIL.

RAINGARDEN AND LOT 605, AND WETLAND 2-1 AND LOT 603 TO BE RETAINED IN PRIVATE OWNERSHIP AND AMALGAMATED
LOT 2 DP 165262

LOT 604 AND WETLAND 2-2 TO REMAIN IN PRIVATE OWNERSHIP

NOTES

- ALL WORKS AND MATERIALS TO COMPLY WITH AUCKLAND COUNCIL STANDARDS AND WATERCARE STANDARDS.
- FOR PIPE BEDDING DETAILS REFER TO STANDARD DETAIL SHEETS UNLESS OTHERWISE NOTED ON THE DRAINAGE LONG SECTIONS IN WHICH CASE SUCH NOTES TAKE PRECEDENCE.
- CONCRETE PIPES ARE TO BE CLASS 2 (X) RRI UNLESS OTHERWISE NOTED ON THE DRAINAGE LONG SECTIONS IN WHICH CASE SUCH NOTES SHALL TAKE PRECEDENCE.
- ALL PIPE CROSSINGS UNDER ROADS TO BE HARDFILL AND RCRRJ CLASS BACKFILLED.
- ALL MANHOLES ARE TO BE 1050mm DIA. UNLESS OTHERWISE NOTED ON THE DRAINAGE LONG SECTION IN WHICH CASE SUCH NOTES SHALL TAKE PRECEDENCE.
- ALL CATCHPITS ARE TO BE STANDARD 675mm X 450mm.
- THE CONTRACTOR IS TO PEG MANHOLES AND CHECK FINISHED EARTHWORKS LEVELS (MH LID LEVELS) PRIOR TO ORDERING MANHOLES.
- 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.
- ALL CESSPITS ON PUBLIC ROADS TO BE SEMI-RECESSED. REFER AT TDM DRAWING RD0020 REV A FOR DETAILS.
- PIPES OVER 3.5m COVER TO BE CLASS 4.

LEGEND

- STAGE 2 WORKS EXTENT: [Dashed magenta line]
- STAGE 1 WORKS EXTENT: [Dashed blue line]
- STAGE 2 BOUNDARY: [Red line]
- EXISTING STORMWATER LINE AND PIT: [Grey dashed line]
- PROPOSED PUBLIC STORMWATER: [Blue dashed line]
- PROPOSED PRIVATE STORMWATER: [Green dashed line]
- EXISTING SANITARY SEWER LINE AND PIT: [Grey dashed line]
- PROPOSED SANITARY SEWER LINE AND PIT: [Black dashed line]
- SINGLE CATCHPIT: [Green square]
- DOUBLE CATCHPIT: [Green square]
- OUTLET ROCK RIPRAP: [Blue square]
- PROPOSED RAINGARDEN: [Blue square]
- EXISTING STREAM: [Blue wavy line]
- PROPOSED MSE WALL: [Blue dashed line]
- PROPOSED RETAINING WALL: [Blue dashed line]
- PUBLIC ROAD CATCHMENT: [Hatched area]

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

REVISION DETAILS	INT	DATE	SURVEYED	
7 FOR S67 RESPONSE	RO	17/07/25	DESIGNED	MK
9 FOR S67 RESPONSE	SM	23/07/25	DRAWN	MK
10 FOR S67 RESPONSE	RO	15/08/25	CHECKED	GW
12 FOR S67 RESPONSE	RO	7/10/25	APPROVED	CD



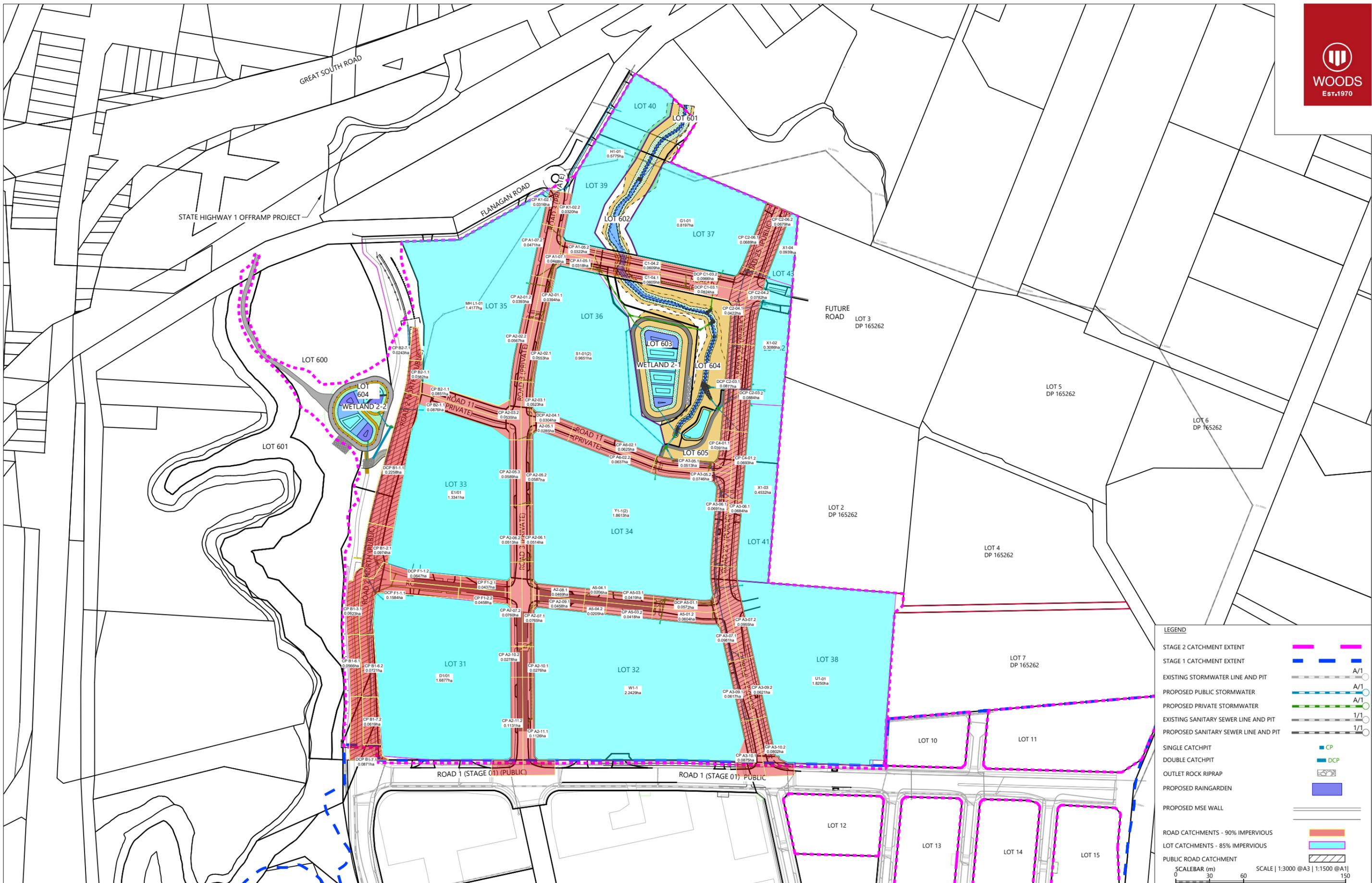
BUILDING B, LEVEL 1
8 NUGENT ST, GRAFTON,
AUCKLAND 1023
+64 9 308 9229
WOODS.CO.NZ



DRURY CENTRE-STAGE 2
OVERALL STORMWATER LAYOUT PLAN



STATUS	FOR S67 RESPONSE	REV	
SCALE	1:3000 @ A3		12
COUNCIL	AUCKLAND COUNCIL		
DWG NO	P24-447-01-3020-DR		



LEGEND

- STAGE 2 CATCHMENT EXTENT (Pink dashed line)
- STAGE 1 CATCHMENT EXTENT (Blue dashed line)
- EXISTING STORMWATER LINE AND PIT (Grey dashed line)
- PROPOSED PUBLIC STORMWATER (Blue solid line)
- PROPOSED PRIVATE STORMWATER (Green solid line)
- EXISTING SANITARY SEWER LINE AND PIT (Grey dashed line)
- PROPOSED SANITARY SEWER LINE AND PIT (Black solid line)
- SINGLE CATCHPIT (CP)
- DOUBLE CATCHPIT (DCP)
- OUTLET ROCK RIPRAP
- PROPOSED RAINGARDEN
- PROPOSED MSE WALL
- ROAD CATCHMENTS - 90% IMPERVIOUS (Orange hatched)
- LOT CATCHMENTS - 85% IMPERVIOUS (Light blue hatched)
- PUBLIC ROAD CATCHMENT (White hatched)

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

REVISION DETAILS	INT	DATE	SURVEYED	
9 FOR S67 RESPONSE	SM	23/07/25	DESIGNED	MK
10 FOR S67 RESPONSE	RO	15/08/25	DRAWN	MK
11 FOR S67 RESPONSE	RO	17/09/25	CHECKED	GW
12 FOR S67 RESPONSE	RO	07/10/25	APPROVED	CD



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

WOODS.CO.NZ

DRURY CENTRE-STAGE 2

STORMWATER TREATMENT CATCHMENT PLAN



STATUS	FOR S67 RESPONSE	REV
SCALE	1:3000 @ A3	12
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P24-447-01-3102-DR	



RAINGARDEN CATCHMENT SUMMARY					
ROADSIDE RAINGARDENS					
RAINGARDEN	CATCHMENT IMPERV AREA %	TOTAL CONTRIBUTING CATCHMENT (m ²)	CATCHMENT IMPERV AREA (m ²)	PONDING FOOTPRINT (m ²)	PONDING FOOTPRINT AS % OF IMPERV 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	

DIVERSION MANHOLE; FLOWS UP TO THE 95% PERCENTILE 24-HOUR RAINFALL EVENT TO BE DIVERTED TO COMMUNITY RAINGARDEN. FLOWS IN EXCESS OF THESE FLOWS TO DISCHARGE DIRECTLY INTO STREAM A.

DIVERSION MANHOLE; FLOWS UP TO THE 95% PERCENTILE 24-HOUR RAINFALL EVENT TO BE DIVERTED TO WETLAND 2-1. FLOWS IN EXCESS OF THESE FLOWS TO DISCHARGE DIRECTLY INTO STREAM A.

DIVERSION MANHOLE; FLOWS UP TO THE 95% PERCENTILE 24-HOUR RAINFALL EVENT TO BE DIVERTED TO WETLAND 2-1. FLOWS IN EXCESS OF THESE FLOWS TO DISCHARGE DIRECTLY INTO STREAM A.

LEGEND

- STAGE 2 CATCHMENT EXTENT (Pink dashed line)
- STAGE 1 CATCHMENT EXTENT (Blue dashed line)
- EXISTING STORMWATER LINE AND PIT (Grey dashed line)
- PROPOSED PUBLIC STORMWATER (Blue dashed line with circles)
- PROPOSED PRIVATE STORMWATER (Green dashed line with circles)
- EXISTING SANITARY SEWER LINE AND PIT (Grey dashed line with circles)
- PROPOSED SANITARY SEWER LINE AND PIT (Black dashed line with circles)
- SINGLE CATCHPIT (CP) (Blue square)
- DOUBLE CATCHPIT (DCP) (Green square)
- OUTLET ROCK RIPRAP (Grey square)
- PROPOSED RAINGARDEN (Blue square)
- PROPOSED MSE WALL (Black double line)
- TREATMENT AND DETENTION BY WETLAND 2-2 - 1.1248 ha (Blue hatched)
- ONSITE RETENTION REQUIRED - 3.1088 ha (Blue cross-hatched)
- TREATMENT AND DETENTION BY WETLAND 2-1 - 2.4407 ha (Red hatched)
- ONSITE RETENTION REQUIRED - 6.8943 ha (Red cross-hatched)
- TREATMENT AND DETENTION BY RAINGARDENS - 0.8419 ha (Yellow hatched)
- ONSITE TREATMENT, DETENTION AND RETENTION REQUIRED - 3.7532 ha (Yellow cross-hatched)
- PUBLIC ROAD CATCHMENT - 1.9655 ha (Black hatched)

SCALEBAR (m) 0 30 60 SCALE | 1:3000 @A3 | 1:1500 @A1 | 1:750 @A2

REVISION DETAILS	INT	DATE	SURVEYED	
9 FOR S67 RESPONSE	SM	23/07/25	DESIGNED	MK
10 FOR S67 RESPONSE	RO	15/08/25	DRAWN	MK
11 FOR S67 RESPONSE	RO	17/09/25	CHECKED	GW
12 FOR S67 RESPONSE	RO	07/10/25	APPROVED	CD



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



DRURY CENTRE-STAGE 2
STORMWATER TREATMENT CATCHMENT PLAN



STATUS	FOR S67 RESPONSE	REV
SCALE	1:3000 @ A3	12
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P24-447-01-3103-DR	