

Attachment 6

Proposed plans



▪ CIVIL ENGINEERING

Project No 3126366

MAY ROAD DEVELOPMENT
RESOURCE CONSENT

Prepared for
MAY 1 LIMITED

By
Beca

JUNE 2022



DRAWING LIST		
DRAWING NO.	REV	DRAWING TITLE
3126366-CA-0000	D	COVER PAGE AND DRAWING LIST
3126366-CA-1100	D	PRE-DEVELOPMENT SITE LAYOUT
3126366-CA-1110	E	PRE-DEVELOPMENT CONTOURS AND PUBLIC SERVICES
3126366-CA-3100	F	PROPOSED DEVELOPMENT SITE LAYOUT
3126366-CA-3201	D	PROPOSED DEVELOPMENT CROSS SECTIONS
3126366-CA-3411	A	PROPOSED DEVELOPMENT STAGING PLAN - STAGE A
3126366-CA-3412	A	PROPOSED DEVELOPMENT STAGING PLAN - STAGE B
3126366-CA-3413	A	PROPOSED DEVELOPMENT STAGING PLAN - STAGE C
3126366-CA-3510	E	PROPOSED DEVELOPMENT ISOPACHYTE PLAN
3126366-CA-3521	E	PROPOSED DEVELOPMENT ISOPACHYTE SECTIONS
3126366-CA-3611	A	PROPOSED DEVELOPMENT EROSION & SEDIMENT CONTROL PLAN - STAGE A
3126366-CA-3612	E	PROPOSED DEVELOPMENT EROSION & SEDIMENT CONTROL PLAN - STAGE B
3126366-CA-3613	E	PROPOSED DEVELOPMENT EROSION & SEDIMENT CONTROL PLAN - STAGE C
3126366-CA-3631	E	PROPOSED DEVELOPMENT EROSION & SEDIMENT CONTROL DETAILS
3126366-CA-4301	D	STORMWATER DETAILS
3126366-CA-4521	D	STORMWATER FLOOD MAP 10% AEP - PRE-DEVELOPMENT
3126366-CA-4522	D	STORMWATER FLOOD MAP 10% AEP - POST DEVELOPMENT
3126366-CA-4531	D	STORMWATER FLOOD MAP 1% AEP - PRE-DEVELOPMENT
3126366-CA-4532	D	STORMWATER FLOOD MAP 1% AEP - POST DEVELOPMENT
3126366-CA-4542	D	STORMWATER FLOOD DIFFERENCE MAP - 10% AEP
3126366-CA-4543	D	STORMWATER FLOOD DIFFERENCE MAP - 1% AEP
3126366-CA-7100	D	LANDSCAPING LAYOUT
3126366-CA-7201	D	LANDSCAPING CROSS SECTIONS - SHEET 1
3126366-CA-7202	D	LANDSCAPING CROSS SECTIONS - SHEET 2
3126366-CA-7300	D	LANDSCAPING PLANTING PALETTE
3126366-CA-7301	D	LANDSCAPING DETAILS



RESOURCE CONSENT
NOT FOR CONSTRUCTION

D	RESOURCE CONSENT	EB	DSP	DSP	28.06.22
C	DRAWING NUMBER CHANGED FROM CA-0010 TO CA-1100	AF	EB	EB	30.05.22
B	RESOURCE CONSENT	EKL	TM	DSP	03.02.22
A	CONCEPT DESIGN	EKL	SPS	DSP	04.12.20
No.	Revision	By	CHK	Appd	Date



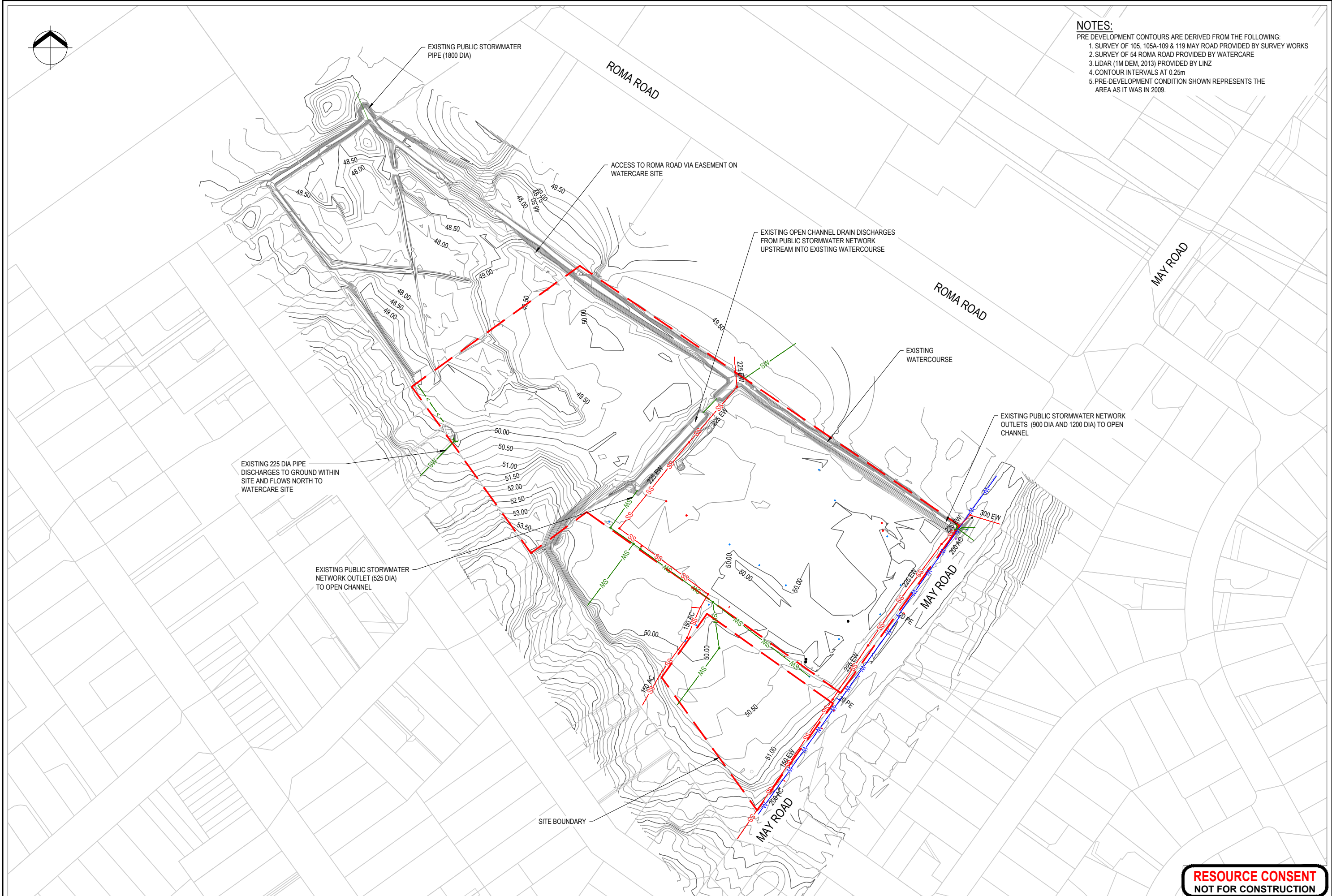
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Reduced Scale (A3)	Design Checker	DSP	04.12.20	Date
1:2000	Design Checker	SPS	04.12.20	
	* Refer to Revision 1 for Original Signature			

Client:	MAY 1 LIMITED
Project:	MAY ROAD DEVELOPMENT

Title:	PRE-DEVELOPMENT SITE LAYOUT
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Discipline	CIVIL	Rev.	D
Drawing No.	3126366-CA-1100		

- NOTES:**
PRE DEVELOPMENT CONTOURS ARE DERIVED FROM THE FOLLOWING:
1. SURVEY OF 105, 105A-109 & 119 MAY ROAD PROVIDED BY SURVEY WORKS
 2. SURVEY OF 54 ROMA ROAD PROVIDED BY WATERCARE
 3. LIDAR (1M DEM, 2013) PROVIDED BY LINZ
 4. CONTOUR INTERVALS AT 0.25m
 5. PRE-DEVELOPMENT CONDITION SHOWN REPRESENTS THE AREA AS IT WAS IN 2009.



E	RESOURCE CONSENT	EB	DSP	DSP	28.06.22
D	DRAWING NUMBER CHANGED FROM CA-0011 TO CA-1110	AF	EB	EB	30.05.22
C	RESOURCE CONSENT	EB	DSP	DSP	14.04.22
B	RESOURCE CONSENT	EKL	TM	DSP	03.02.22
No.	Revision	By	CHK	Appd	Date

Drawing Originator:

Beca

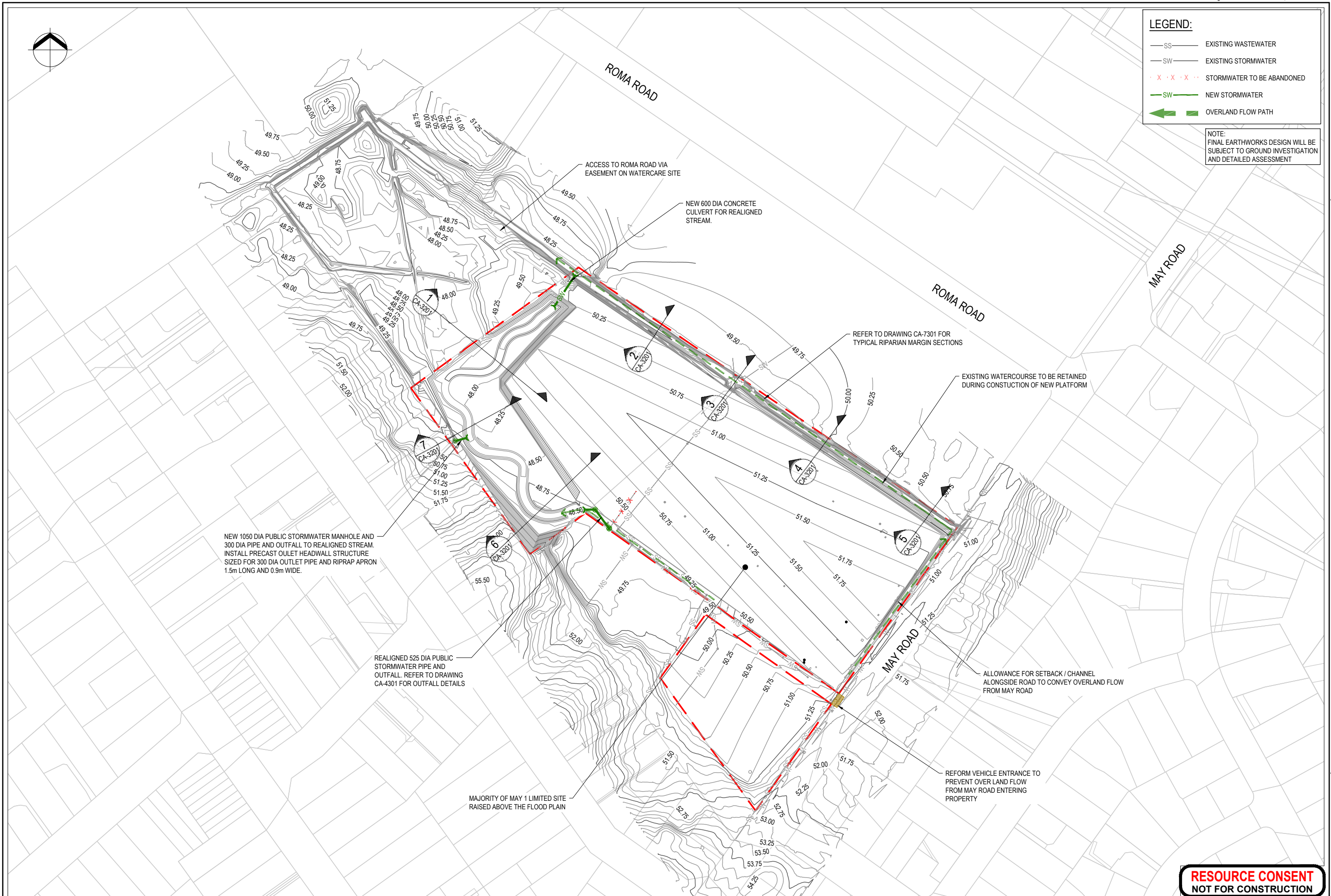
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1:2000	Design Check	SPS	04.12.20	
	* Refer to Revision 1 for Original Signature			

Client:	MAY 1 LIMITED
Project:	MAY ROAD DEVELOPMENT

Title:	PRE-DEVELOPMENT CONTOURS AND PUBLIC SERVICES
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Discipline	CIVIL
Drawing No.	3126366-CA-1110
Rev.	E

RESOURCE CONSENT
NOT FOR CONSTRUCTION



F	RESOURCE CONSENT	EB	DSP	DSP	28.06.22
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D	RESOURCE CONSENT	EB	DSP	DSP	14.04.22
C	RESOURCE CONSENT	EKL	DSP	DSP	03.02.22
No.	Revision	By	Chk.	Appd.	Date



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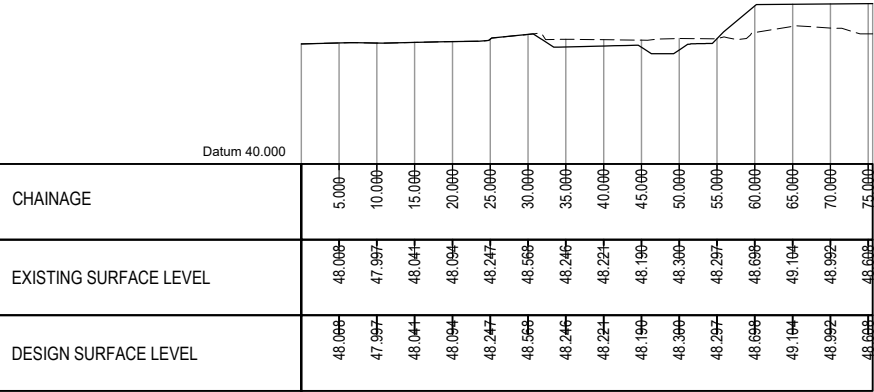
* Refer to Revision 1 for Original Signature

Client:	MAY 1 LIMITED
Project:	MAY ROAD DEVELOPMENT

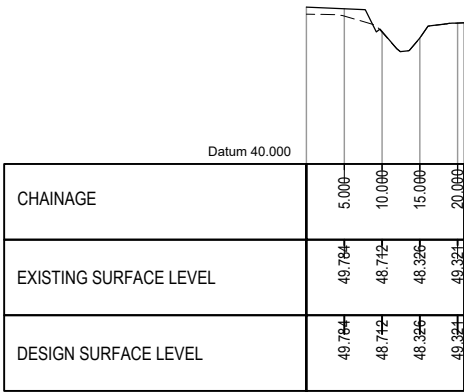
Title:	PROPOSED DEVELOPMENT SITE LAYOUT
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Discipline	CIVIL
Drawing No.	3126366-CA-3100
Rev.	F

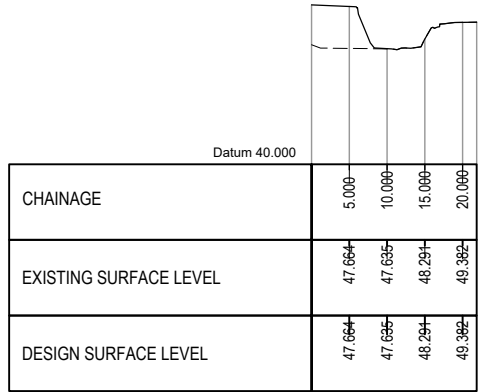
**RESOURCE CONSENT
NOT FOR CONSTRUCTION**



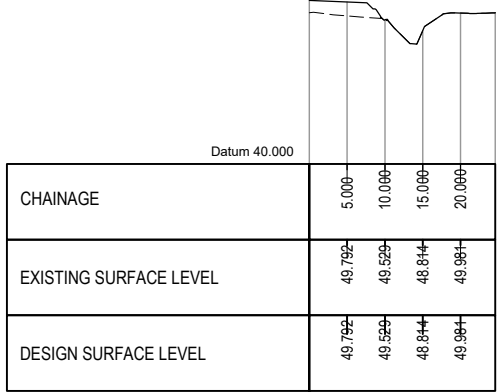
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CA-3100 HOR 1:200 VER 1:100



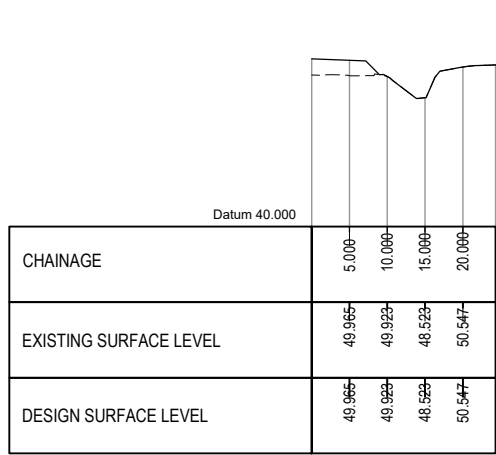
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CA-3100 HOR 1:200 VER 1:100



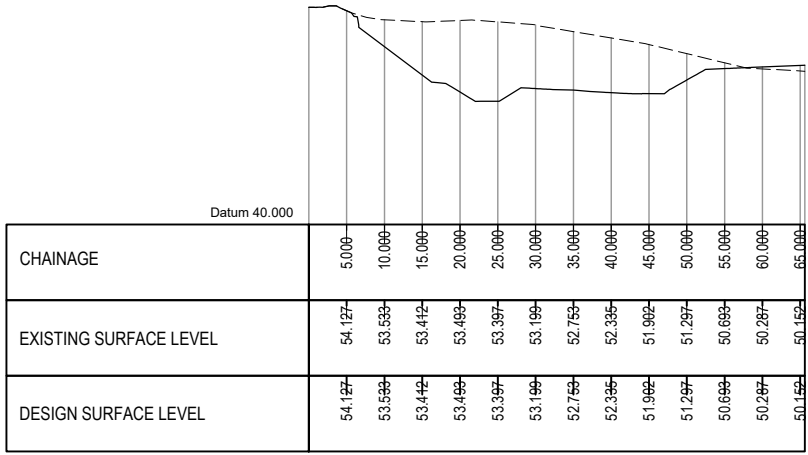
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CA-3100 HOR 1:200 VER 1:100



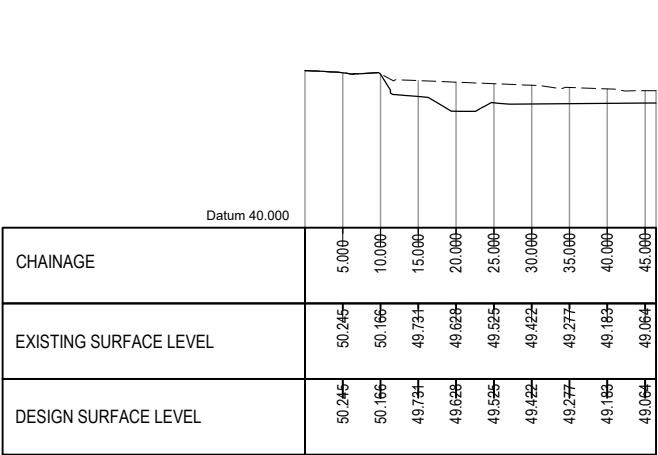
04 CROSS SECTION
CA-3100 HOR 1:200 VER 1:100



05 CROSS SECTION
CA-3100 HOR 1:200 VER 1:100



06 CROSS SECTION
CA-3100 HOR 1:200 VER 1:100



07 CROSS SECTION
CA-3100 AS SHOWN

D	RESOURCE CONSENT	EB	DSP	DSP	28.06.22
C	DRAWING NUMBER CHANGED FROM CA-0022 TO CA-3201	AF	EB	EB	30.05.22
B	RESOURCE CONSENT	EB	TM	DSP	14.04.22
A	RESOURCE CONSENT	EKL	TM	DSP	03.02.22
No.	Revision	By	CHK	Appd	Date

Drawing Originator:

Beca

Original Scale (A1)	Design	EKL	04.12.20	Approved For Construction*
AS SHOWN	Drawn	EKL	04.12.20	
Reduced Scale (A3)	Design Verifier	DSP	04.12.20	
HALF SHOWN	Design Check	SPS	02.02.22	Date
	* Refer to Revision 1 for Original Signature			

Client:	MAY 1 LIMITED
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Project:	MAY ROAD DEVELOPMENT
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Title:	PROPOSED DEVELOPMENT CROSS SECTIONS	Discipline:	CIVIL
Drawing No.	3126366-CA-3201	Rev.	D

RESOURCE CONSENT
NOT FOR CONSTRUCTION



RESOURCE CONSENT
NOT FOR CONSTRUCTION

A	RESOURCE CONSENT	EB	DSP	DSP	28.06.22
No.	Revision	By	CHK	Appd	Date

Drawing Originator:
Beca

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Reduced Scale (A3) 1:2000	Design Verifier	DSP	30.05.22	Date
	Design Check	DSP	30.05.22	Date

* Refer to Revision 1 for Original Signature

Client:	MAY 1 LIMITED
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Project:	MAY ROAD DEVELOPMENT
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Title:	PROPOSED DEVELOPMENT STAGING PLAN STAGE A
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Discipline	CIVIL
Drawing No.	3126366-CA-3411
Rev.	A



RESOURCE CONSENT
NOT FOR CONSTRUCTION

A		RESOURCE CONSENT	EB	DSP	DSP	28.06.22
No.	Revision	By	CHK	Appd	Date	

Drawing Originator:

Original Scale (A1)	Design	EB	30.05.22	Approved For Construction*
1:1000	Drawn	EB	30.05.22	
Reduced Scale (A3)	Design Checker	DSP	30.05.22	Date
1:2000	Design Check	DSP	30.05.22	

* Refer to Revision 1 for Original Signature

Client:

MAY 1 LIMITED

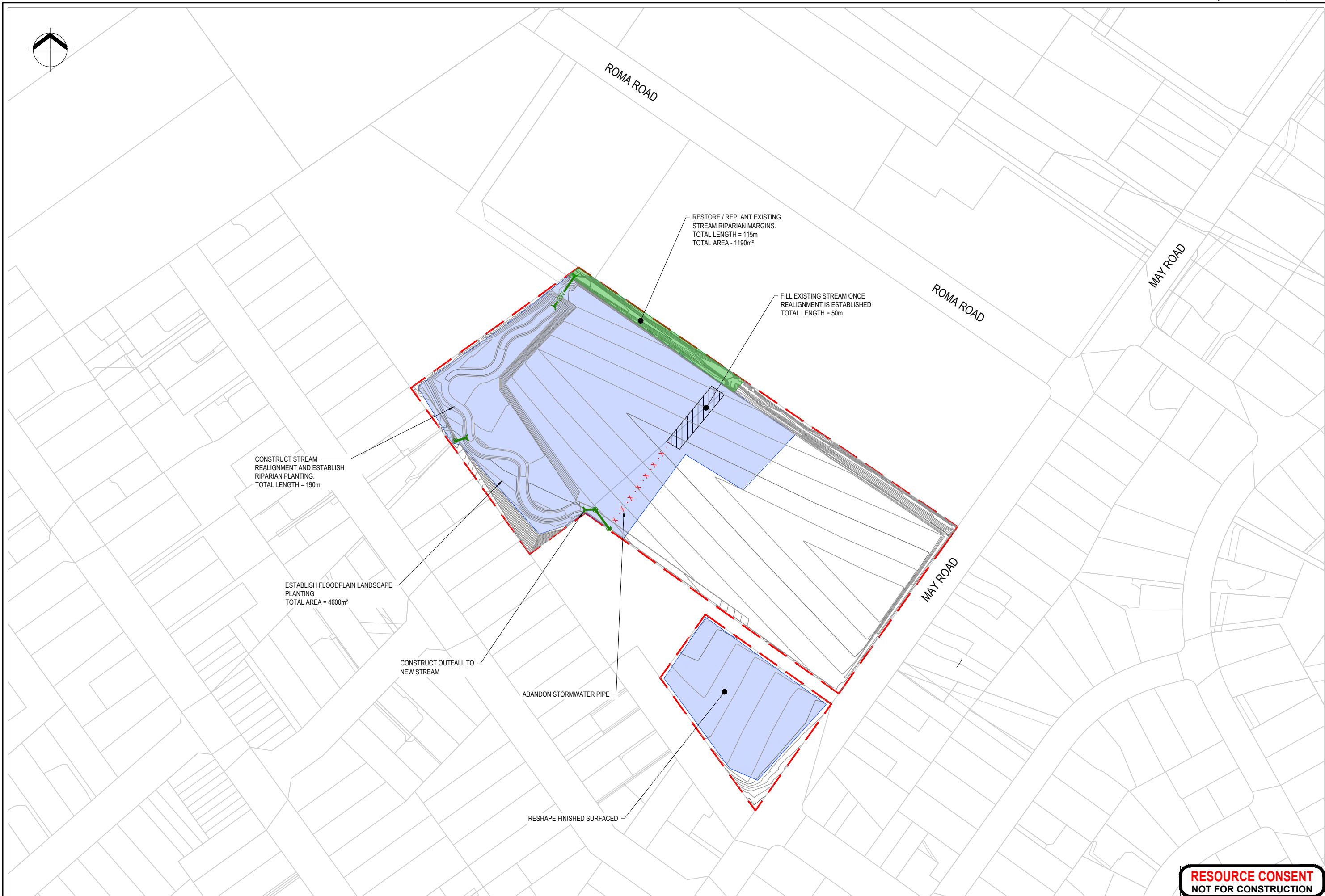
Project:

MAY ROAD DEVELOPMENT

Title:

**PROPOSED DEVELOPMENT
STAGING PLAN
STAGE B**

Discipline	CIVIL
Drawing No.	3126366-CA-3412
Rev.	A



RESOURCE CONSENT
NOT FOR CONSTRUCTION

A	RESOURCE CONSENT	EB	DSP	DSP	28.06.22
No.	Revision	By	CHK	Appd	Date

Drawing Originator:
Beca

Original Scale (A1)	Design	EB	30.05.22	Approved For Construction*
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Reduced Scale (A3)	Design Checker	DSP	30.05.22	Date
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* Refer to Revision 1 for Original Signature

Client:
MAY 1 LIMITED

Project:
MAY ROAD DEVELOPMENT

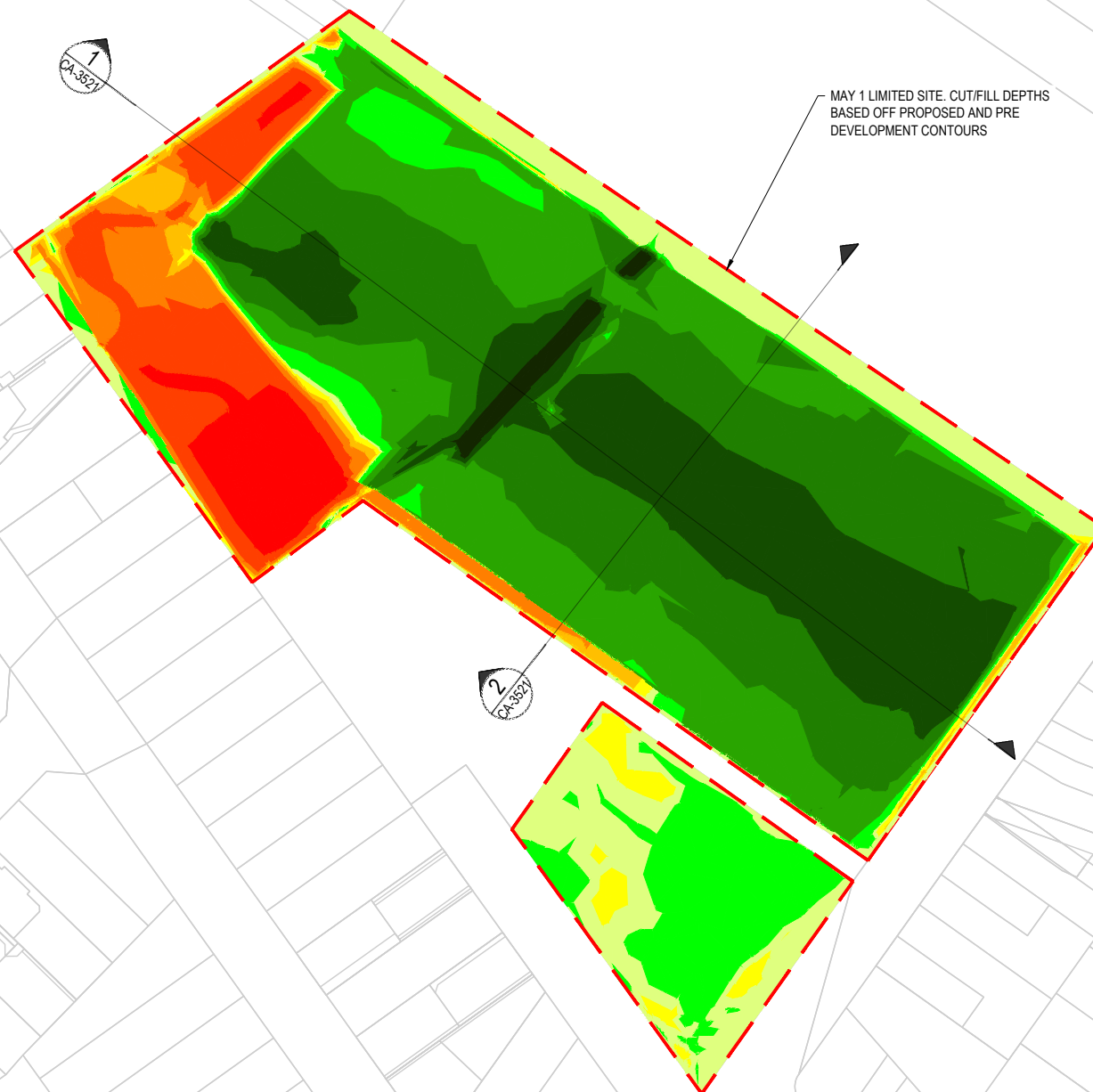
Title:
**PROPOSED DEVELOPMENT
STAGING PLAN
STAGE C**

Discipline	CIVIL
Drawing No.	3126366-CA-3413
Rev.	A



Elevations Table				
Number	Minimum Elevation	Maximum Elevation	Volume (m³)	Color
1	-6.000	-2.500	1525.74	Red
2	-2.500	-1.000	4202.14	Orange
3	-1.000	-0.500	2559.59	Dark Orange
4	-0.500	-0.250	1597.60	Yellow-Orange
5	-0.205	-0.050	1104.80	Yellow
6	-0.050	0.050	1929.46	Light Green
7	0.050	0.500	12252.98	Green
8	0.500	1.000	10962.42	Dark Green
9	0.078	1.500	28214.23	Very Dark Green
10	1.500	2.500	1746.90	Dark Green
11	2.500	3.500	158.65	Black

NOTES:
CUT VOLUME = 11,710m³
FILL VOLUME = 32,470m³



E	RESOURCE CONSENT	EB	DSP	DSP	28.06.22
D	DRAWING NUMBER CHANGED FROM CA-0025 TO CA-3510	AF	EB	EB	30.05.22
C	RESOURCE CONSENT	EB	DSP	DSP	14.04.22
B	RESOURCE CONSENT	EKL	TM	DSP	03.02.22
No.	Revision	By	CHK	Appd	Date

Drawing Originator:



Original Scale (A1)	Design	EKL	04.12.20	Approved For Construction*
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Reduced Scale (A3)	Design Checker	DSP	04.12.20	
1:2000	Design Check	SPS	04.12.20	Date
* Refer to Revision 1 for Original Signature				

Client:

MAY 1 LIMITED

Project:

MAY ROAD DEVELOPMENT

Title:

PROPOSED DEVELOPMENT
ISOPACHYTE PLAN

Discipline

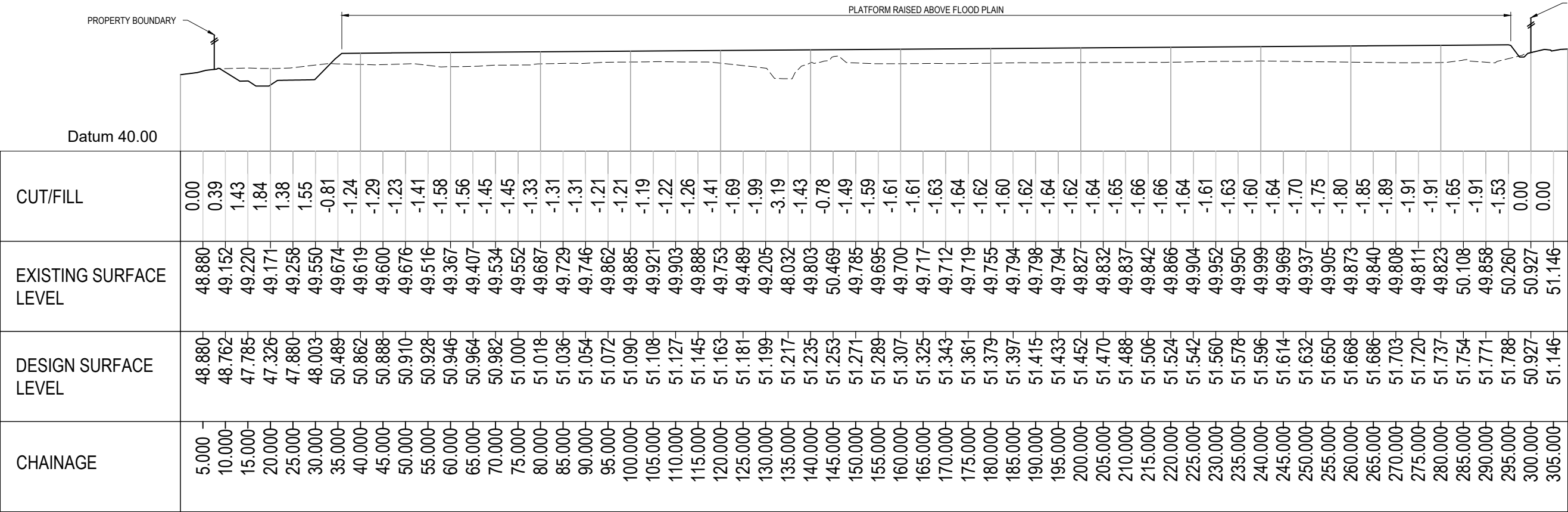
CIVIL

Drawing No.

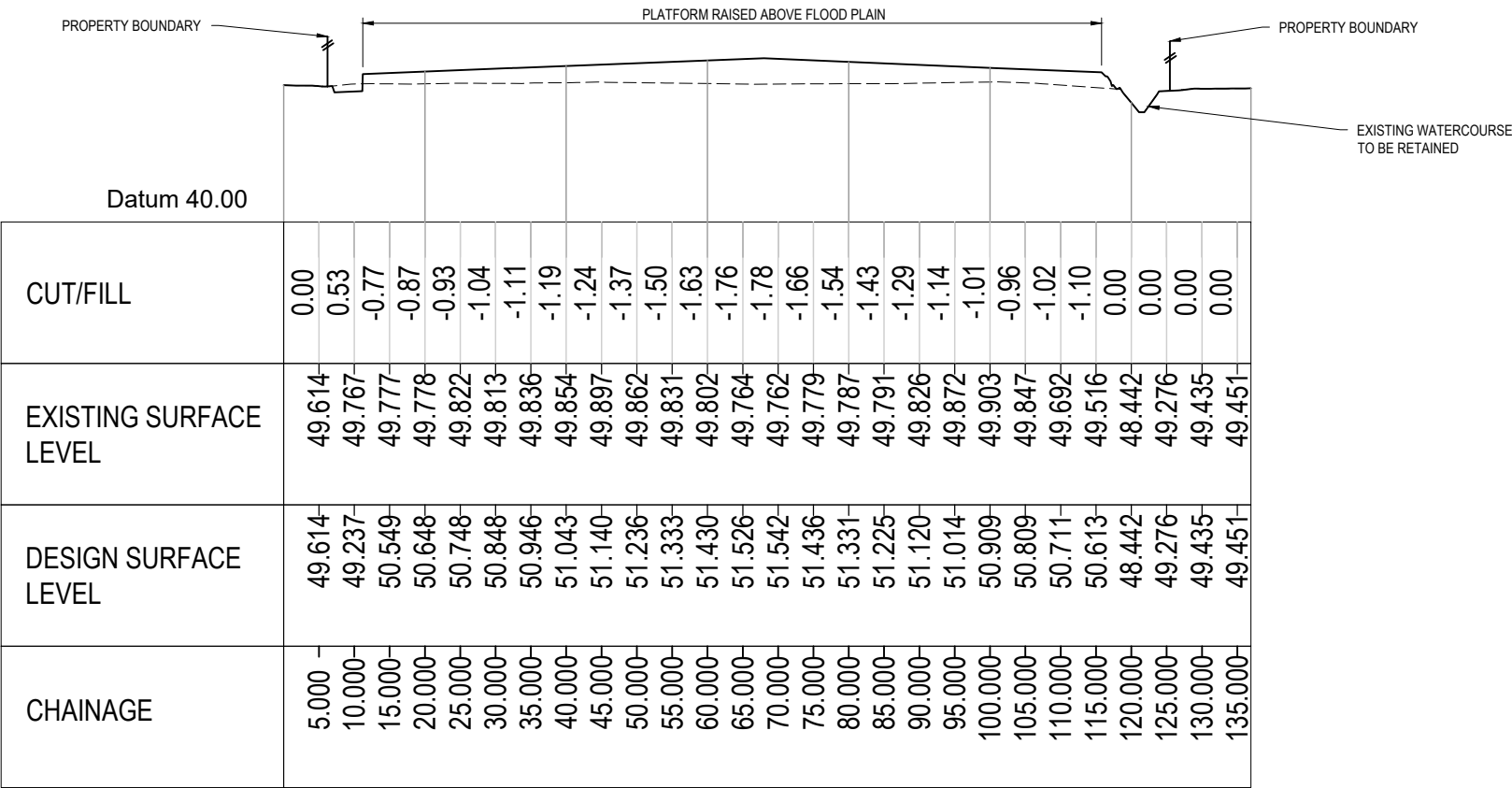
3126366-CA-3510

Rev.

E



01 EARTHWORKS SECTION THROUGH SITE
CA-3510 HOR 1:200 VER 1:100



02 EARTHWORKS SECTION THROUGH SITE
CA-3510 HOR 1:200 VER 1:100

E	RESOURCE CONSENT	EB	DSP	DSP	28.06.22
D	DRAWING NUMBER CHANGED FROM CA-0030 TO CA-3521	AF	EB	EB	30.05.22
C	RESOURCE CONSENT	EB	DSP	DSP	14.04.22
B	RESOURCE CONSENT	EKL	TM	DSP	03.02.22
No.	Revision	By	CHK	Appd	Date

Drawing Originator:



Original Scale (A1)	Design	EKL	04.12.20	Approved For Construction*
AS SHOWN	Drawn	EKL	04.12.20	
Reduced Scale (A3)	Design Check	DSP	04.12.20	Date
HALF SHOWN	Design Check	SPS	04.12.20	
* Refer to Revision 1 for Original Signature				

Client:

MAY 1 LIMITED

Project:

MAY ROAD DEVELOPMENT

Title:

PROPOSED DEVELOPMENT
ISOPACHYTE SECTIONS

Discipline

CIVIL

Drawing No.

3126366-CA-3521

Rev.

E



LEGEND:

- WATER COURSE
- DIRTY WATER BUND
- CLEAN WATER DIVERSION
- STABILISED ENTRANCES

ROMA ROAD

MAY ROAD

ROMA ROAD

MAY ROAD

REFER RC APPLICATION NO. LUC60396321
FOR DETAIL OF WORKS PROPOSED ON
105 MAY ROAD DURING STAGE A AND
EROSION AND SEDIMENT CONTROL PLAN

DISCHARGE OUTLET

STAGE A/B SEDIMENT
RETENTION POND

STOCKPILE AREA

STABILISED ENTRANCE TO BE
FORMED OFF EXISTING
CONCRETE ENTRANCE

RESOURCE CONSENT
NOT FOR CONSTRUCTION

A	RESOURCE CONSENT	EB	DSP	DSP	28.06.22
No.	Revision	By	CHK	Appd	Date



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Reduced Scale (A3)	Design Checker	DSP	30.05.22	Date
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* Refer to Revision 1 for Original Signature				

Client: MAY 1 LIMITED

Project: MAY ROAD DEVELOPMENT

Title: PROPOSED DEVELOPMENT
EROSION & SEDIMENT CONTROL
PLAN - STAGE A

Discipline	CIVIL
Drawing No.	3126366-CA-3611
Rev.	A



E	RESOURCE CONSENT	EB	DSP	DSP	28.06.22
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C	RESOURCE CONSENT	EB	DSP	DSP	14.04.22
B	CONCEPT DESIGN - NOTE UPDATE	EKL	EKL	DSP	29.07.21
No.	Revision	By	CHK	Appd	Date

Drawing Originator:



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Reduced Scale (A3)	Design Verifier	DSP	04.12.20	Date
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	* Refer to Revision 1 for Original Signature			

Client:

MAY 1 LIMITED

Project:

MAY ROAD DEVELOPMENT

Title: PROPOSED DEVELOPMENT
EROSION & SEDIMENT CONTROL
PLAN - STAGE B

Discipline	CIVIL
Drawing No.	3126366-CA-3612
Rev.	E

RESOURCE CONSENT
NOT FOR CONSTRUCTION



RESOURCE CONSENT
NOT FOR CONSTRUCTION

E	RESOURCE CONSENT	EB	DSP	DSP	28.06.22
D	DRAWING NUMBER CHANGED FROM CA-0032 TO CA-3613	AF	EB	EB	30.05.22
C	RESOURCE CONSENT	EKL	EKL	DSP	03.02.22
B	CONCEPT DESIGN - NOTE UPDATE	EKL	EKL	DSP	29.07.21
No.	Revision	By	CHK	Appd	Date

Drawing Originator:



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Reduced Scale (A3)	Design Check	DSP	04.12.20	Date
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	* Refer to Revision 1 for Original Signature			

Client:	MAY 1 LIMITED
Project:	MAY ROAD DEVELOPMENT

Title:	PROPOSED DEVELOPMENT EROSION & SEDIMENT CONTROL PLAN - STAGE C
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Discipline	CIVIL
Drawing No.	3126366-CA-3613
Rev.	E

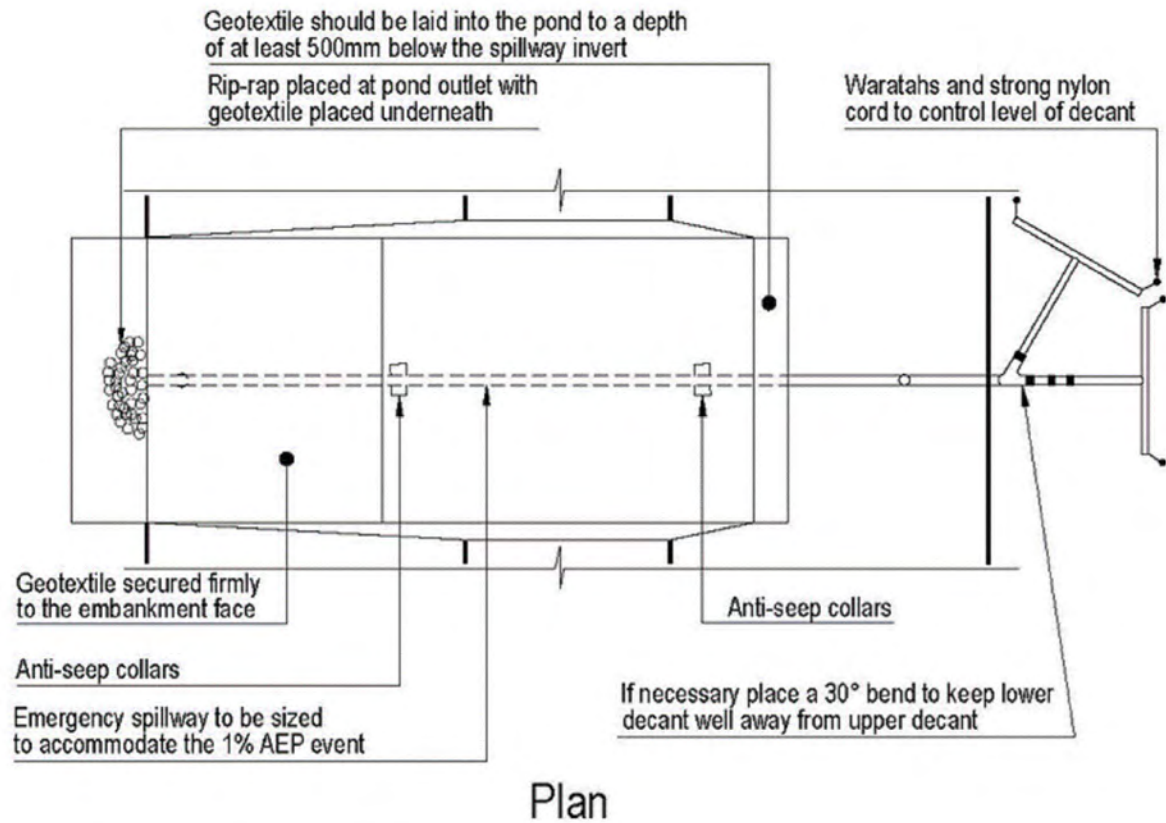


FIGURE 1 - SEDIMENT RETENTION POND FOR 1.5-3ha CATCHMENT PLAN (SOURCE: AUCKLAND COUNCIL 'GD05')

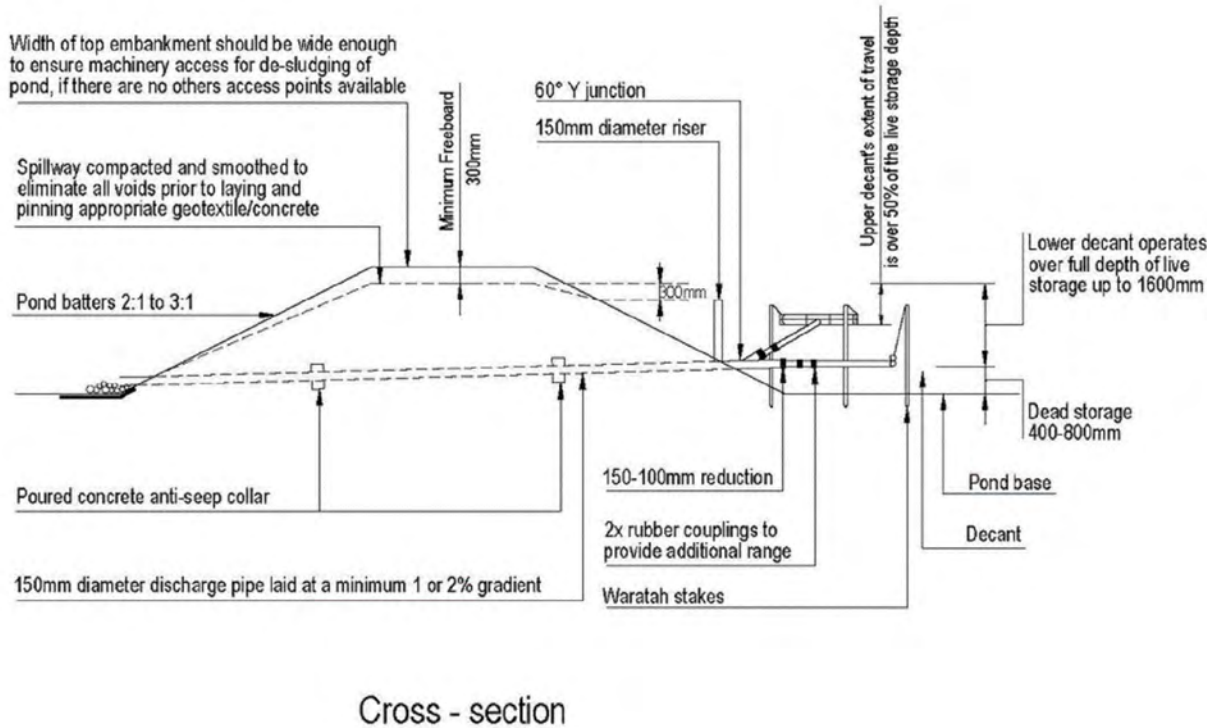


FIGURE 2 - SEDIMENT RETENTION POND FOR 1.5-3ha CATCHMENT CROSS SECTION (SOURCE: AUCKLAND COUNCIL 'GD05')

SEDIMENT RETENTION POND DETAIL	
CATCHMENT AREA (m²)	18,600
STORAGE VOLUME BASIS	2%
STORAGE VOLUME (m³)	372
NUMBER OF DECANTS	2
DECANT HOLES (Ø 10mm)	248
PRIMARY SPILLWAY DIAMETER (mm)	150
OUTLET PIPE DIAMETER (mm)	150
EMERGENCY SPILLWAY WIDTH (m)	3.81
EMERGENCY SPILLWAY DEPTH (mm)	300
SIZING RATIO BASIS	3:1
SRP APPROXIMATE LENGTH (m)	23.6
SRP APPROXIMATE WIDTH (m)	7.9
SRP APPROXIMATE DEPTH (m)	2
FOREBAY APPROXIMATE LENGTH (m)	7.9
FOREBAY APPROXIMATE WIDTH (m)	2.4
FOREBAY APPROXIMATE DEPTH (m)	2
NOTE: SRP AND FOREBAY DIMENSIONS ARE BASED ON 3:1 RATION @ 2m DEEP AND ARE PROVIDED AS APPROXIMATES ONLY WITH NO CONSIDERATION OF BATTER ANGLES. FINAL DIMENSIONS TO BE CONFIRMED ON SITE TO FIT SITE CHARACTERISTICS AND DESIRED DEPTH AND SIZE RATIO.	

DECANTING EARTH BUND DETAIL	
CATCHMENT AREA (m²)	5,000
STORAGE VOLUME BASIS	2%
STORAGE VOLUME (m³)	100
NUMBER OF DECANTS	1
DECANT HOLES (Ø 10mm)	67
PRIMARY SPILLWAY DIAMETER (mm)	150
OUTLET PIPE DIAMETER (mm)	150
EMERGENCY SPILLWAY WIDTH (m)	1.02
EMERGENCY SPILLWAY DEPTH (mm)	300
SIZING RATIO BASIS	NA, ADOPTED 3:1 FOR REFERENCE
DEB APPROXIMATE LENGTH (m)	12.2
DEB APPROXIMATE WIDTH (m)	4.1
DEB APPROXIMATE DEPTH (m)	2
NOTE: FINAL DIMENSIONS TO BE CONFIRMED ONSITE TO FIT SITE CHARACTERISTICS AND DESIRED DEPTH AND SIZE RATIO	

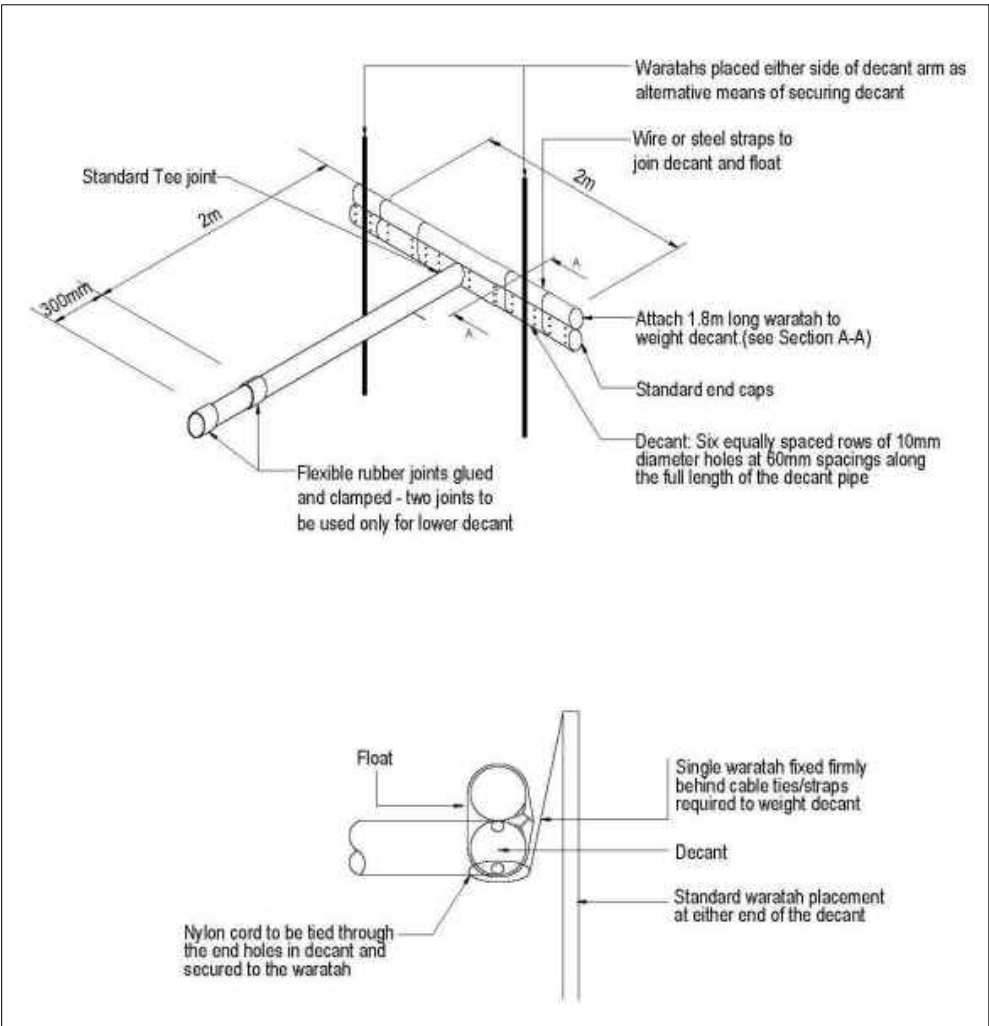


FIGURE 3 - SRP AND DEB T-BAR DESIGN (SOURCE: AUCKLAND COUNCIL 'GD05')

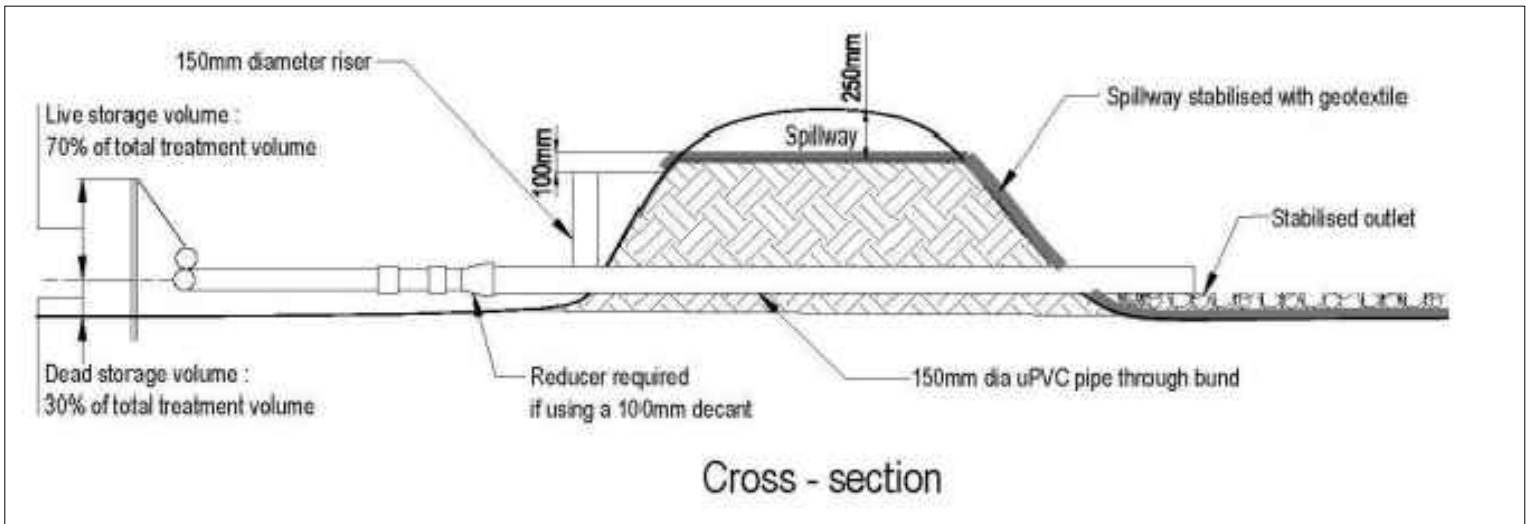


FIGURE 4 - DECANTING EARTH BUND DESIGN (SOURCE: AUCKLAND COUNCIL 'GD05')

E	RESOURCE CONSENT	EB	DSP	DSP	28.06.22
D	DRAWING NUMBER CHANGED FROM CA-0033 TO CA-3631	AF	EB	EB	30.05.22
C	RESOURCE CONSENT	EKL	EKL	DSP	03.02.22
B	CONCEPT DESIGN - NOTE UPDATE	EKL	EKL	DSP	29.07.21
No.	Revision	By	CHK	Appld	Date

Drawing Originator:



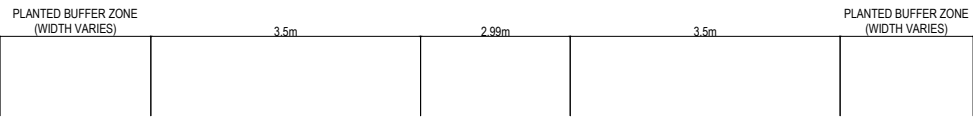
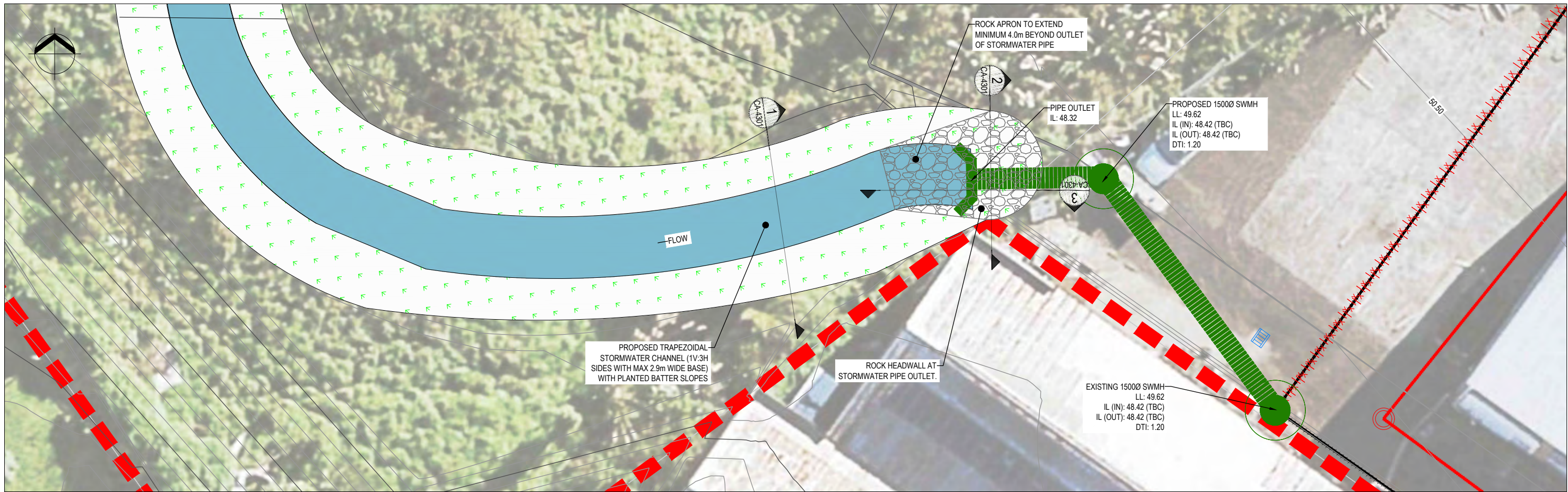
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	Design Check	SPS	04.12.20	
	* Refer to Revision 1 for Original Signature			

Client:	MAY 1 LIMITED	Project:	MAY ROAD DEVELOPMENT
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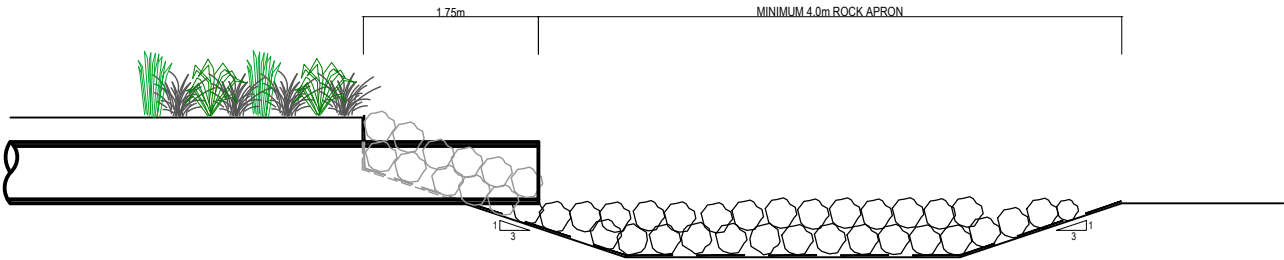
Title:	PROPOSED DEVELOPMENT EROSION & SEDIMENT CONTROL DETAILS
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Discipline:	CIVIL	Rev.	E
Drawing No.	3126366-CA-3631		

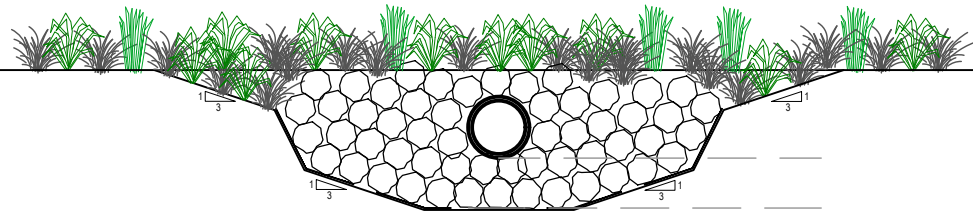
RESOURCE CONSENT
NOT FOR CONSTRUCTION



1 TYPICAL PLANTED STORMWATER CHANNEL
CA-4301 1:25 @ A1, 1:50 @ A3



3 STORMWATER OUTLET SIDE ELEVATION
CA-4301 1:25 @ A1, 1:50 @ A3



2 STORMWATER OUTLET FRONT ELEVATION
CA-4301 1:25 @ A1, 1:50 @ A3

D	RESOURCE CONSENT	EB	DSP	DSP	28.06.22
C	DRAWING NUMBER CHANGED FROM CA-0037 TO CA-4301	AF	EB	EB	30.05.22
B	RESOURCE CONSENT	EKL	TM	DSP	03.02.22
A	CONCEPT DESIGN	EKL	SPS	DSP	04.12.20
No.	Revision	By	CHK	Appd	Date

Drawing Originator:



Original Scale (A1)	Design	EKL	04.12.20	Approved For Construction*
AS SHOWN	Drawn	EKL	04.12.20	
Reduced Scale (A3)	Design Check	DSP	04.12.20	Date
HALF SHOWN	* Refer to Revision 1 for Original Signature			

Client:

MAY 1 LIMITED

Project:

MAY ROAD DEVELOPMENT

Title:

STORMWATER
DETAILS

RESOURCE CONSENT
NOT FOR CONSTRUCTION

Discipline	CIVIL
Drawing No.	3126366-CA-4301
Rev.	D



LEGEND

10% AEP PRE DEVELOPMENT FLOOD DEPTH (m)

- 0.05 - 0.2
- 0.2 - 0.4
- 0.4 - 0.6
- 0.6 - 0.8
- 0.8 - 1
- 1 - 2
- 2 - 3

FLOOD MODEL EXTENT

SITE BOUNDARY

D	RESOURCE CONSENT	EB	DSP	DSP	28.06.22
C	DRAWING NUMBER CHANGED FROM CA-0042 TO CA-4521	AF	EB	EB	30.05.22
B	RESOURCE CONSENT	EB	DSP	DSP	14.04.22
A	RESOURCE CONSENT	EKL	SPS	DSP	03.02.22
No.	Revision	By	CHK	Appd	Date

Drawing Originator:



Original Scale (A1)	Design	EKL	04.12.20	Approved For Construction*
NTS	Drawn	EKL	04.12.20	
Reduced Scale (A3)	Design Verifier	DSP	04.12.20	Date
NTS	Design Check	SPS	04.12.20	
* Refer to Revision 1 for Original Signature				

Client:

MAY 1 LIMITED

Project:

MAY ROAD DEVELOPMENT

Title:

STORMWATER
FLOOD MAP
10% AEP PRE-DEVELOPMENT

RESOURCE CONSENT
NOT FOR CONSTRUCTION

Discipline	CIVIL
Drawing No.	3126366-CA-4521
Rev.	D



LEGEND

10% AEP POST DEVELOPMENT FLOOD DEPTH (m)

- 0.05 - 0.2
- 0.2 - 0.4
- 0.4 - 0.6
- 0.6 - 0.8
- 0.8 - 1
- 1 - 2
- 2 - 3

FLOOD MODEL EXTENT

SITE BOUNDARY

D	RESOURCE CONSENT	EB	DSP	DSP	28.06.22
C	DRAWING NUMBER CHANGED FROM CA-0043 TO CA-4522	AF	EB	EB	30.05.22
B	RESOURCE CONSENT	EB	DPS	DPS	14.04.22
A	RESOURCE CONSENT	EKL	SPS	DPS	03.02.22
No.	Revision	By	CHK	Appd	Date

Drawing Originator:



Original Scale (A1)	Design	EKL	04.12.20	Approved For Construction*
NTS	Drawn	EKL	04.12.20	
Reduced Scale (A3)	Design Verifier	DSP	04.12.20	Date
NTS	Design Check	SPS	04.12.20	
* Refer to Revision 1 for Original Signature				

Client:

MAY 1 LIMITED

Project:

MAY ROAD DEVELOPMENT

Title:

STORMWATER
FLOOD MAP
10% AEP POST DEVELOPMENT

RESOURCE CONSENT
NOT FOR CONSTRUCTION

Discipline

CIVIL

Drawing No.

3126366-CA-4522

Rev.

D



D	RESOURCE CONSENT	EB	DSP	DSP	28.06.22
C	DRAWING NUMBER CHANGED FROM CA-0044 TO CA-4531	AF	EB	EB	30.05.22
B	RESOURCE CONSENT	EB	DSP	DSP	14.04.22
A	RESOURCE CONSENT	EKL	SPS	DSP	03.02.22
No.	Revision	By	CHK	Appd	Date

Drawing Originator:



Original Scale (A1)	Design	EKL	04.12.20	Approved For Construction*
NTS	Drawn	EKL	04.12.20	
Reduced Scale (A3)	Design Verifier	DSP	04.12.20	
NTS	Design Check	SPS	04.12.20	Date
* Refer to Revision 1 for Original Signature				

Client:

MAY 1 LIMITED

Project:

MAY ROAD DEVELOPMENT

Title:

STORMWATER
FLOOD MAP
1% AEP PRE-DEVELOPMENT

RESOURCE CONSENT
NOT FOR CONSTRUCTION

Discipline

CIVIL

Drawing No.

3126366-CA-4531

Rev.

D



LEGEND

1% AEP POST DEVELOPMENT FLOOD DEPTH (m)

- 0.05 - 0.2
- 0.2 - 0.4
- 0.4 - 0.6
- 0.6 - 0.8
- 0.8 - 1
- 1 - 2
- 2 - 3

FLOOD MODEL EXTENT

SITE BOUNDARY

D	RESOURCE CONSENT	EB	DSP	DSP	28.06.22
C	DRAWING NUMBER CHANGED FROM CA-0045 TO CA-4532	AF	EB	EB	30.05.22
B	RESOURCE CONSENT	EB	DSP	DSP	14.04.22
A	RESOURCE CONSENT	EKL	SPS	DSP	03.02.22
No.	Revision	By	CHK	Appd	Date

Drawing Originator:



Original Scale (A1)	Design	EKL	04.12.20	Approved For Construction*
NTS	Drawn	EKL	04.12.20	
Reduced Scale (A3)	Design Verifier	DSP	04.12.20	
NTS	Design Check	SPS	04.12.20	Date
* Refer to Revision 1 for Original Signature				

Client:

MAY 1 LIMITED

Project:

MAY ROAD DEVELOPMENT

Title:

STORMWATER
FLOOD MAP
1% AEP POST DEVELOPMENT

RESOURCE CONSENT
NOT FOR CONSTRUCTION

Discipline	CIVIL
Drawing No.	3126366-CA-4532
Rev.	D



LEGEND

10% AEP DIFFERENCE MAP (m)

- <= -0.1
- 0.1 - -0.01
- 0.01 - 0.01
- 0.01 - 0.1
- 0.1 - 1

FLOOD MODEL EXTENT

SITE BOUNDARY

D	RESOURCE CONSENT	EB	DSP	DSP	28.06.22
C	DRAWING NUMBER CHANGED FROM CA-0051 TO CA-4542	AF	EB	EB	30.05.22
B	RESOURCE CONSENT	EB	DSP	DSP	14.04.22
A	RESOURCE CONSENT	EKL	SPS	DSP	03.02.22
No.	Revision	By	CHK	Appd	Date

Drawing Originator:



Original Scale (A1)	Design	EKL	04.12.20	Approved For Construction*
NTS	Drawn	EKL	04.12.20	
Reduced Scale (A3)	Design Verifier	DSP	04.12.20	
NTS	Design Check	SPS	04.12.20	Date
* Refer to Revision 1 for Original Signature				

Client:

MAY 1 LIMITED

Project:

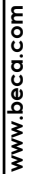
MAY ROAD DEVELOPMENT

Title:

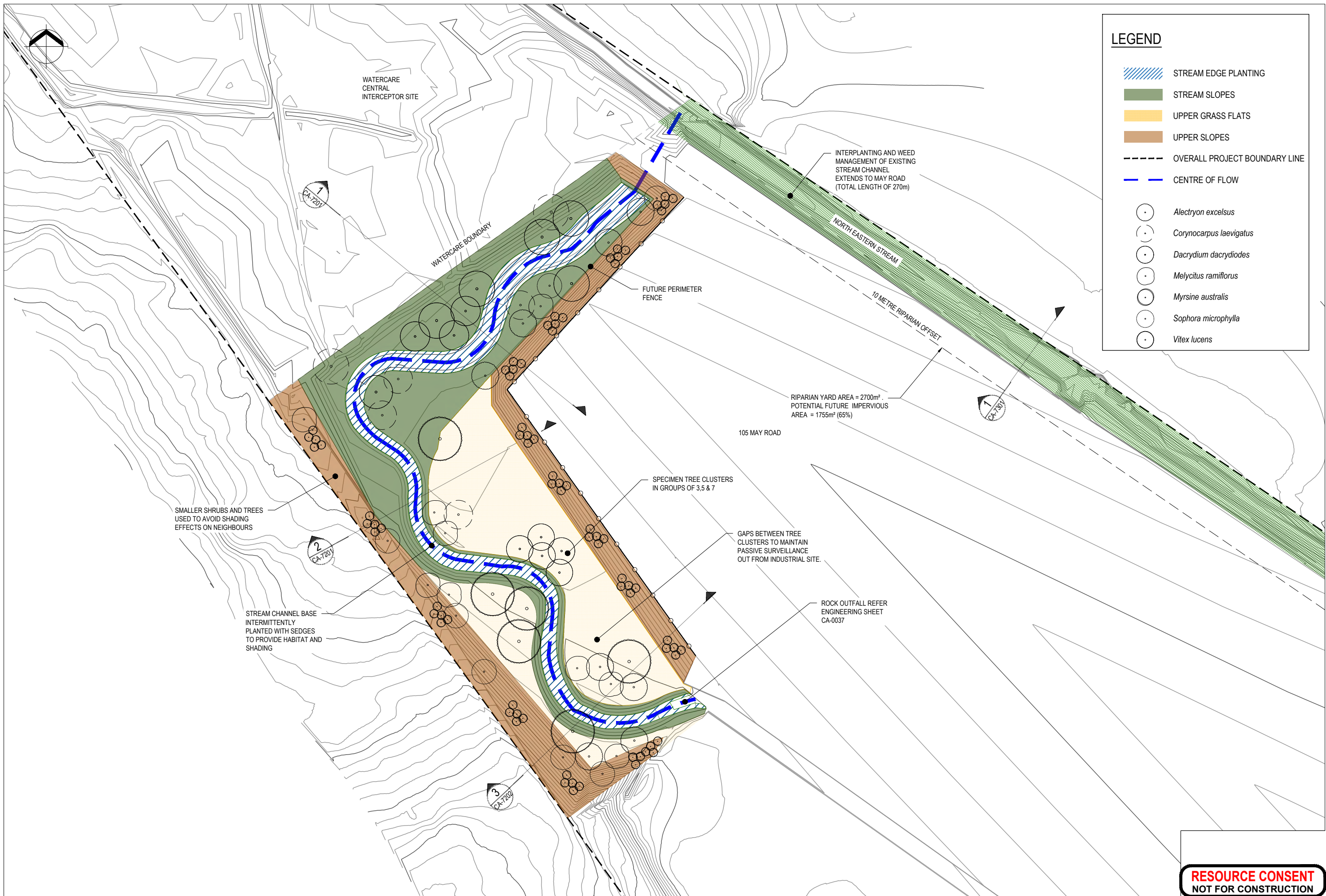
STORMWATER
FLOOD DIFFERENCE MAP
10% AEP

RESOURCE CONSENT
NOT FOR CONSTRUCTION

Discipline	CIVIL
Drawing No.	3126366-CA-4542
Rev.	D



Discipline		CIVIL
Drawing No.		Rev.
3126366-CA-4543		D



D	RESOURCE CONSENT	EB	DSP	DSP	28.06.22
C	DRAWING NUMBER CHANGED FROM CA-0060 TO CA-7100	AF	EB	EB	30.05.22
B	RESOURCE CONSENT	RG	DSP	DSP	14.04.22
A	RESOURCE CONSENT	EKL	TM	DSP	03.02.22
No.	Revision	By	CHK	Appd	Date

Drawing Originator:

Beca

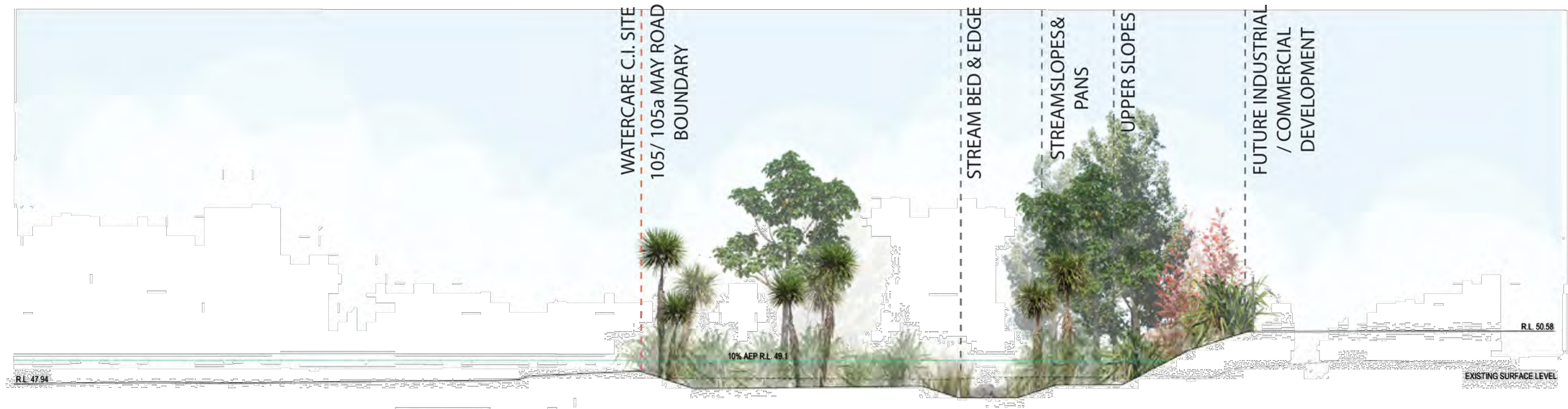
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Reduced Scale (A3)	Design Check	NP	04.12.20	Date
1:800	Design Check	SPS	04.12.20	
	* Refer to Revision 1 for Original Signature			

Client:	MAY 1 LIMITED
Project:	MAY ROAD DEVELOPMENT

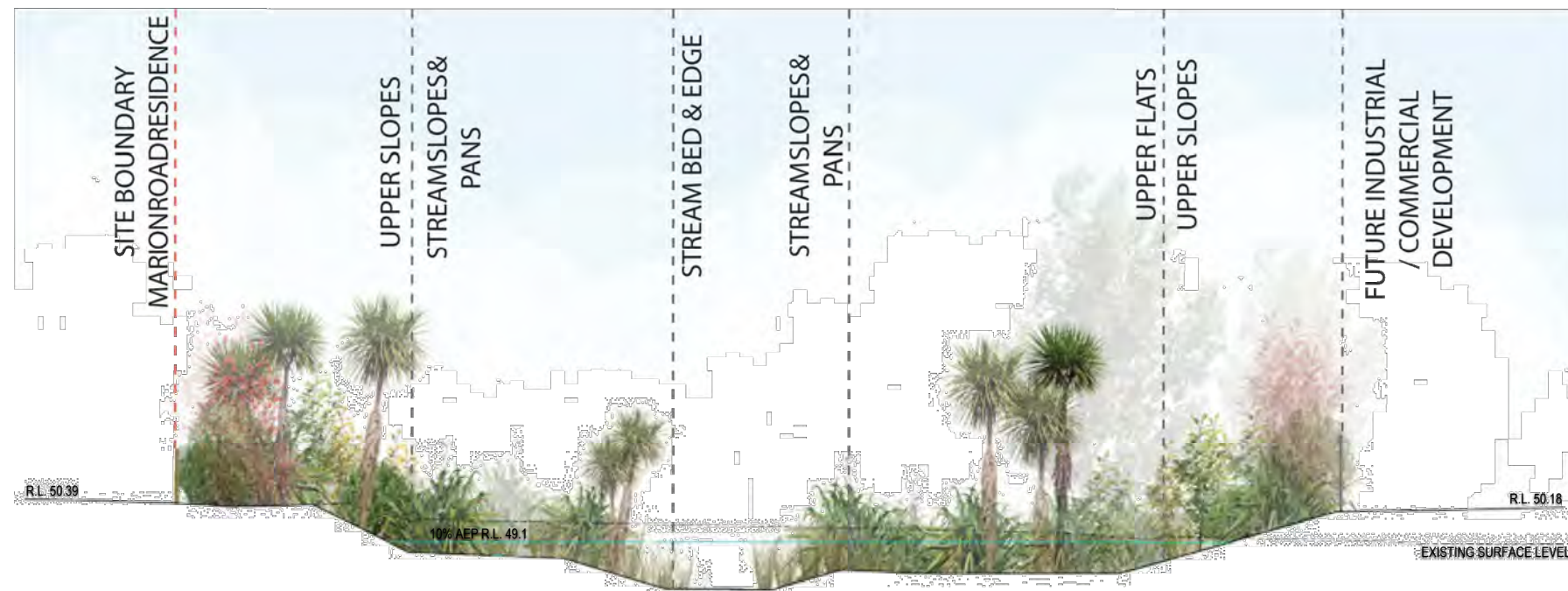
Title:	LANDSCAPING LAYOUT
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Discipline:	CIVIL
Drawing No:	3126366-CA-7100
Rev:	D

RESOURCE CONSENT
NOT FOR CONSTRUCTION



1 TYPICAL STREAM PLANTING
CA-7100 SCALE 1:100 (A1) 1:200 (A3)



2 TYPICAL STREAM PLANTING
CA-7100 SCALE 1:100 (A1) 1:200 (A3)

D	RESOURCE CONSENT	EB	DSP	DSP	28.06.22
C	DRAWING NUMBER CHANGED FROM CA-0061 TO CA-7201	AF	EB	EB	30.05.22
B	RESOURCE CONSENT	RG	DSP	DSP	14.04.22
A	RESOURCE CONSENT	EKL	TM	DSP	03.02.22
No.	Revision	By	CHK	Appd	Date



Original Scale (A1)	Design	RC	04.12.20	Approved For Construction*
AS SHOWN	Drawn	RC	04.12.20	
Reduced Scale (A3)	Design Checker	NP	04.12.20	Date
HALF SHOWN	Design Checker	SPS	04.12.20	Date

* Refer to Revision 1 for Original Signature

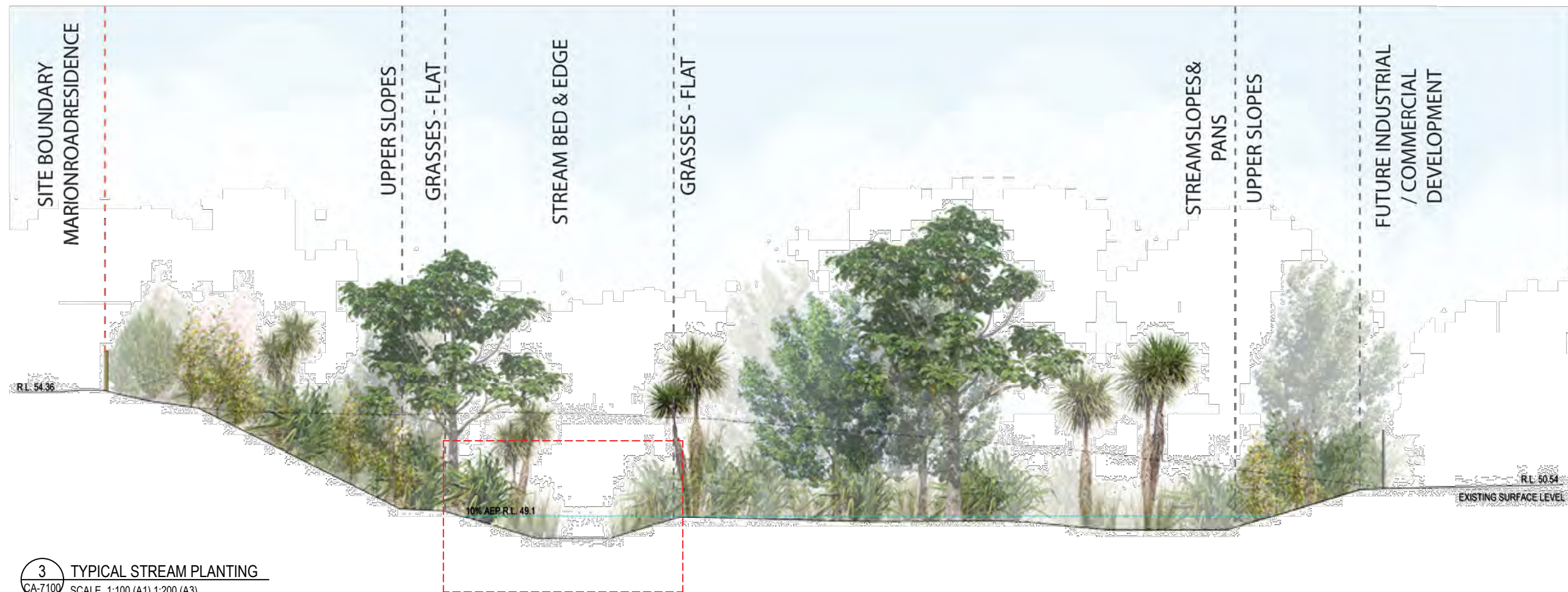
Client:	MAY 1 LIMITED
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Project:	MAY ROAD DEVELOPMENT
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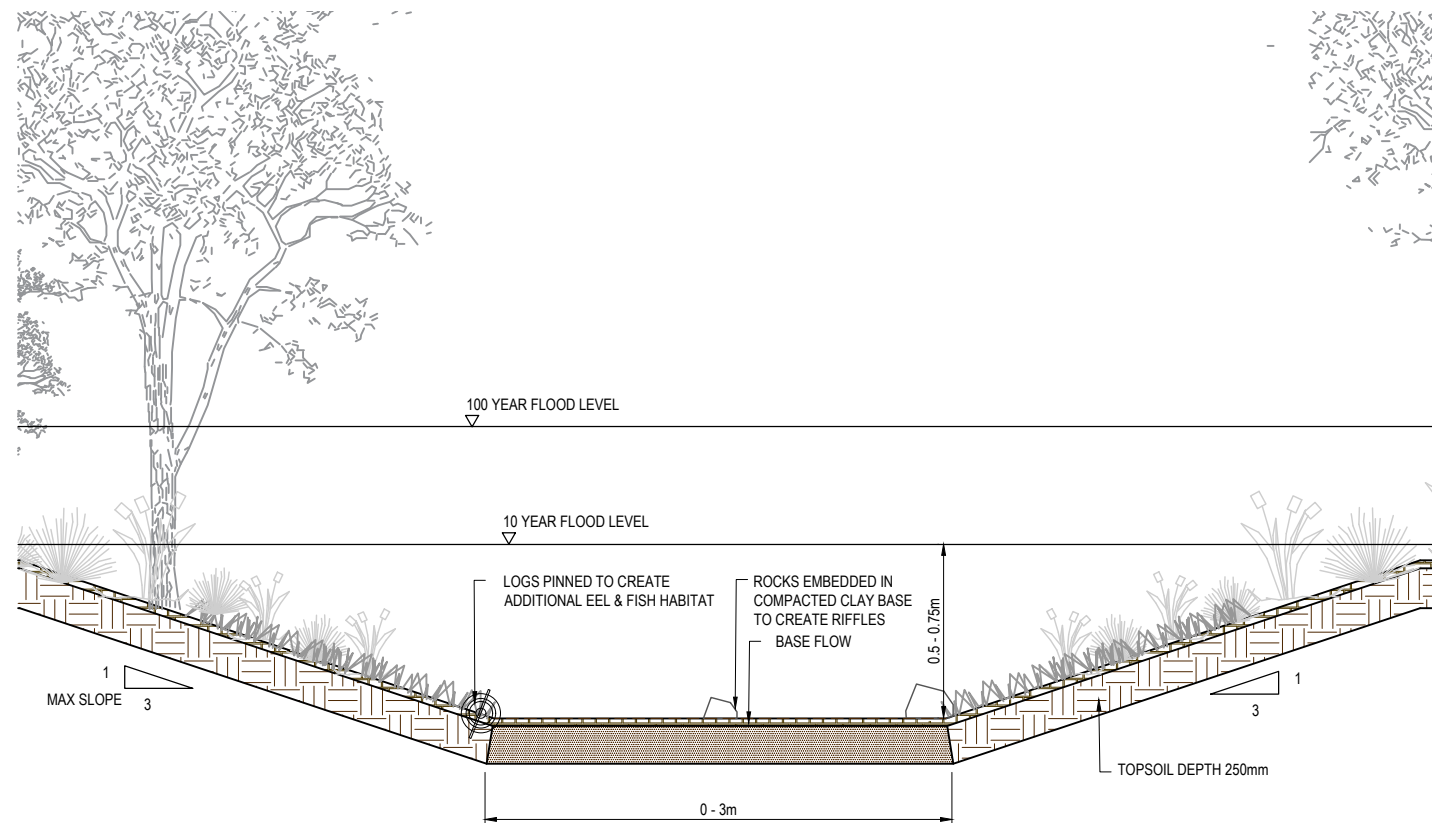
Title:	LANDSCAPING CROSS SECTIONS SHEET 1
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Discipline:	CIVIL
Drawing No.	3126366-CA-7201
Rev.	D

RESOURCE CONSENT
NOT FOR CONSTRUCTION



3 TYPICAL STREAM PLANTING
CA-7100 SCALE 1:100 (A1) 1:200 (A3)



1 TYPICAL STREAM CHANNEL DETAIL
CA-7202 AS SHOWN

D	RESOURCE CONSENT	EB	DSP	DSP	28.06.22
C	DRAWING NUMBER CHANGED FROM CA-0062 TO CA-7202	AF	EB	EB	30.05.22
B	RESOURCE CONSENT	RG	DSP	DSP	14.04.22
A	RESOURCE CONSENT	EKL	TM	DSP	03.02.22
No.	Revision	By	CHK	Appd	Date

Drawing Originator:



Original Scale (A1)	Design	RC	04.12.20	Approved For Construction*
AS SHOWN	Drawn	RC	04.12.20	
Reduced Scale (A3)	Design Check	NP	04.12.20	Date
HALF SHOWN	Design Check	SPS	04.12.20	Date

* Refer to Revision 1 for Original Signature

Client:

MAY 1 LIMITED

Project:

MAY ROAD DEVELOPMENT

Title:

LANDSCAPING
CROSS SECTIONS
SHEET 2

RESOURCE CONSENT
NOT FOR CONSTRUCTION

Discipline	CIVIL
Drawing No.	3126366-CA-7202
Rev.	D

PLANTING PALETTE - MAY ROAD DEVELOPMENT

BOTANICAL NAME	COMMON NAME	MATURE HEIGHT	PERCENTAGE MIX
Stream Edge Planting			Total area: 985sqm
Carex dissita	flat leaved sedge	0.5m	10%
Carex secta	purei	1m	30%
Carex geminata	rautahi	1m	30%
Carex virgata	small swamp sedge	0.8m	30%
Stream Slopes			Total area: 2,171sqm
Carex dissita	flat leaved sedge	0.5m	20%
Carex secta	purei	1m	30%
Cordyline australis	ti kouka, cabbage tree	8m	30%
Coprosma robusta	karamu	2 - 4m	10%
Leptospermum scoparium	manuka	4m	5%
Phormium tenax	harakeke, flax	2m	5%
Upper Flats			Total area: 2,025sqm
Austroderia fulvida	toetoe	1.5m	40%
Carex virgata	small swamp sedge	0.8m	30%
Cordyline australis	ti kouka, cabbage tree	8m	20%
Phormium tenax	harakeke, flax	2m	10%
Upper Slopes			Total area: 1,812sqm
Austroderia fulvida	toetoe	1.5m	10%
Cordyline australis	ti kouka, cabbage tree	8m	20%
Coprosma robusta	karamu	2-4m	30%
Hebe stricta	koromiko	2m	30%
Phormium tenax	harakeke, flax	2m	10%
Trees			Total trees: 128
Alectryon excelsus	titoki	8m	8
Corynocarpus laevigatus	karaka	12m	7
Dacrydium darcydiodes	white pine, kahikatea	30m	14
Melycitus ramiflorus	mahoe	10m	9
Myrsine australis	mapou	6m	77
Sophora microphylla	kowhai	10m	7
Vitex lucens	puriri	20m	6

Notes:

- 1. All grasses and shrubs to be supplied at 1L/2L grades.
- 2. All trees to be supplied at PB18.
- 3. Small grasses to be planted at 3 - 4 plants per sqare metre.

D	RESOURCE CONSENT	EB	DSP	DSP	28.06.22
C	DRAWING NUMBER CHANGED FROM CA-0063 TO CA-7300	AF	EB	EB	30.05.22
B	RESOURCE CONSENT	RG	DSP	DSP	14.04.22
A	RESOURCE CONSENT	EKL	TM	DSP	03.02.22
No.	Revision	By	CHK	Appd	Date

Drawing Originator:



Original Scale (A1)	Design	RC	04.12.20	Approved For Construction*
Drawn	RC		04.12.20	
Reduced Scale (A3)	Design Verifier	NP	04.12.20	
NTS	Design Check	SPS	04.12.20	Date
* Refer to Revision 1 for Original Signature				

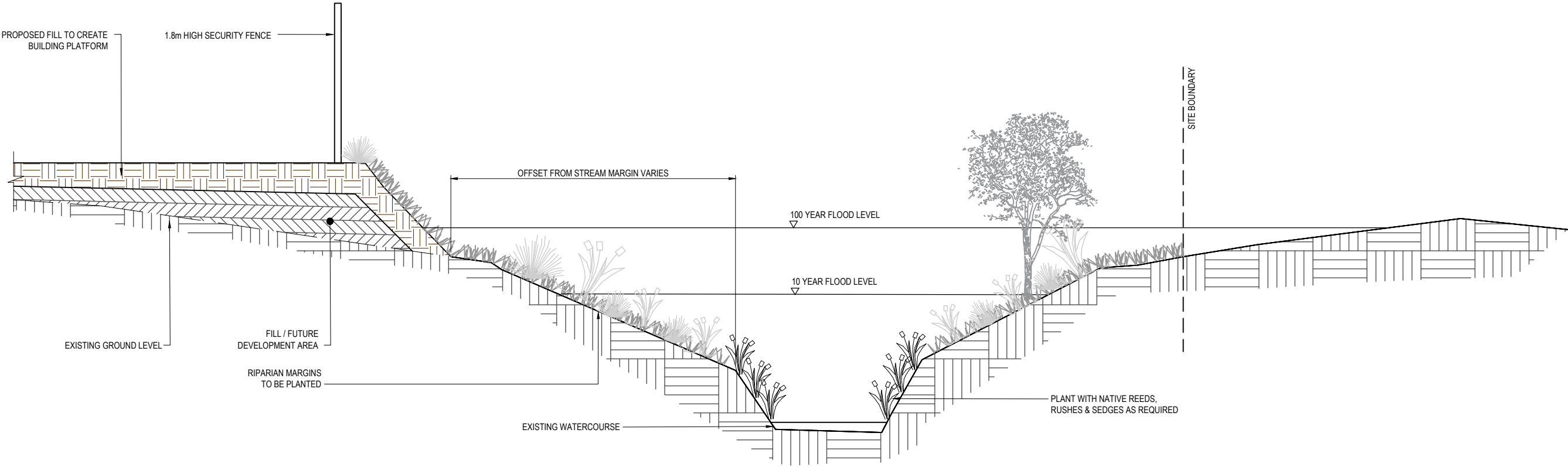
Client:	MAY 1 LIMITED
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Project:	MAY ROAD DEVELOPMENT
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Title:	LANDSCAPING PLANTING PALETTE
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Discipline	CIVIL
Drawing No.	3126366-CA-7300
Rev.	D

RESOURCE CONSENT
NOT FOR CONSTRUCTION



1 CROSS SECTION AT EXISTING WATERCOURSE
CA-7100 NTS

D	RESOURCE CONSENT	EB	DSP	DSP	28.06.22
C	DRAWING NUMBER CHANGED FROM CA-0065 TO CA-7301	AF	EB	EB	30.05.22
B	RESOURCE CONSENT	RG	DSP	DSP	14.04.22
A	RESOURCE CONSENT	EKL	TM	DSP	03.02.22
No.	Revision	By	Chk	Appd	Date

Drawing Originator:



Original Scale (A1)	Design	RC	04.12.20	Approved For Construction*
NTS	Drawn	RC	04.12.20	
Reduced Scale (A3)	Design Checker	NP	04.12.20	
NTS	Design Checker	SPS	04.12.20	Date
* Refer to Revision 1 for Original Signature				

Client:

MAY 1 LIMITED

Project:

MAY ROAD DEVELOPMENT

Title:

LANDSCAPING
TYPICAL DETAILS

RESOURCE CONSENT
NOT FOR CONSTRUCTION

Discipline	CIVIL
Drawing No.	3126366-CA-7301
Rev.	D