

RIVERVIEW PROPERTIES LIMITED
PROPOSED DEVELOPMENT
MacLENNAN FARM LANE
KAUKAPAKAPA

RESOURCE CONSENT DESIGN DRAWINGS:

PRELIMINARY & GENERAL

- PG101 COVER AND CONTENTS PAGE
- PG102 EXISTING SITE PLAN

EARTHWORKS

- EW201 PROPOSED CONTOUR PLAN
- EW202 PROPOSED CUT & FILL DEPTH CONTOUR PLAN
- EW203 EROSION & SEDIMENT CONTROL PLAN
- EW204-206 EROSION & SEDIMENT CONTROL DETAILS

ROADING

- RD301 PROPOSED JOAL PLAN
- RD302 TYPICAL JOAL X-SECTION
- RD303 TYPICAL JOAL NARROWING

STORMWATER


- SW401 PRELIMINARY STORMWATER LAYOUT
- SW402 SWALE CATCHMENT PLAN

FIRE FIGHTING WATER SUPPLY

- WS501 FIRE FIGHTING WATER SUPPLY



REV.	DESCRIPTION	CHECK	APP'D	DATE	SCALE	NTS AT A3			CLIENT	SITE ADDRESS	DRAWING NUMBER		
						NAME	DATE	RIVERVIEW PROPERTIES LTD	MacLENNAN FARM LANE KAUKAPAKAPA	1664 - RC - PG101			
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					APPROVED	PF	06.21	DRAWING TITLE			REVISION		
Conditions of Use: <i>These drawings shall only be used for the purpose for which they were supplied. Do not measure off this drawing. If doubt please contact Engineer.</i>									COVER AND CONTENTS PAGE			JUNE 2021	-



Ph: 09 426 6552
Web: www.aspeng.co.nz



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NOTE:
ALL LEVELS IN TERMS OF LINZ DATUM:
HORIZONTAL DATUM: GEODETIC DATUM 2000
VERTICAL DATUM: AUCKLAND MEAN SEA LEVEL 1946

REV.	DESCRIPTION	CHECK	APP'D	DATE	SCALE 1:1500 AT A3		
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					APPROVED	PF	06.21

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SITE ADDRESS
MacLENNAN FARM LANE KAUKAPAKAPA
DRAWING TITLE
EXISTING SITE PLAN

DRAWING NUMBER	
1664 - RC - PG102	
DATE	REVISION
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SITE ADDRESS
MacLENNAN FARM LANE KAUKAPAKAPA
DRAWING TITLE
PROPOSED CONTOUR PLAN

DRAWING NUMBER
1664 - RC - EW201
DATE
JUNE 2021
REVISION
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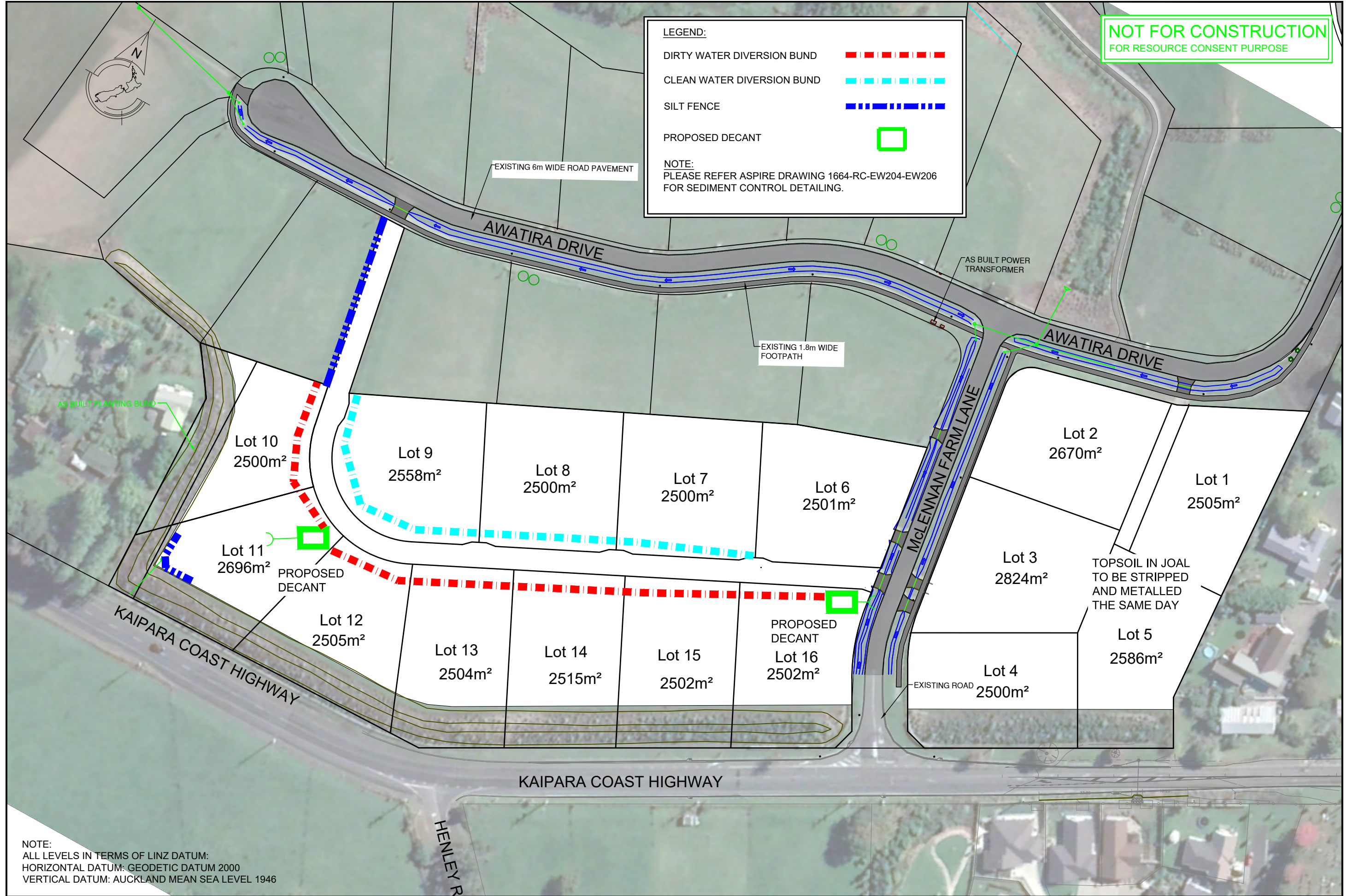
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					APPROVED	PF 06.21

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SITE ADDRESS
MacLENNAN FARM LANE KAUKAPAKAPA
DRAWING TITLE
PROPOSED CUT TO FILL CONTOUR PLAN

DRAWING NUMBER
1664 - RC - EW202
DATE
JUNE 2021
REVISION
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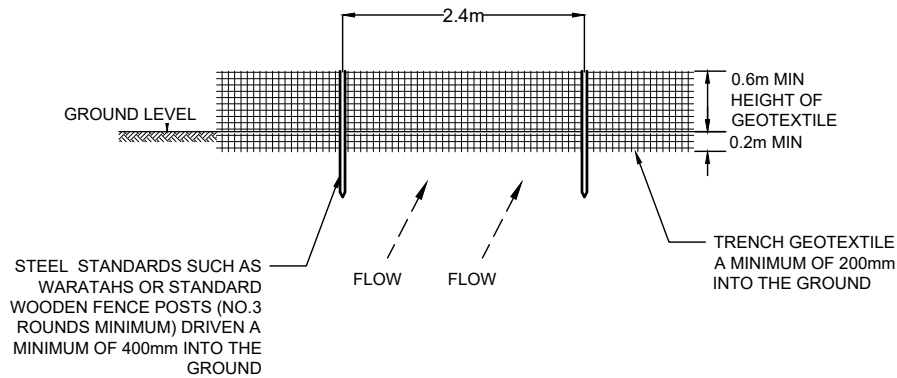
SITE ADDRESS
MacLENNAN FARM LANE KAUKAPAKAPA
DRAWING TITLE
EROSION AND SEDIMENTCONTROL PLAN

DRAWING NUMBER
1664 - RC - EW203
DATE
JUNE 2021
REVISION
-

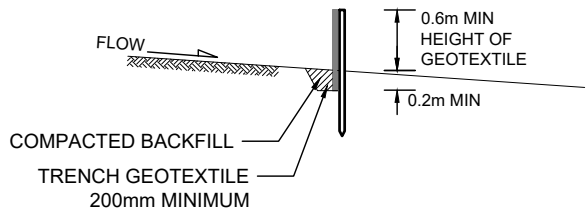
Ph: 09 426 6552
Web: www.aspeng.co.nz

Slope steepness %	Slope length (m) (maximum)	Spacing of returns (m)	Silt fence length (m) (maximum)
Flatter than 2%	Unlimited	N/A	Unlimited
2 – 10%	40	60	300
10 – 20%	30	50	230
20 – 33%	20	40	150
33 – 50%	15	30	75
> 50%	6	20	40

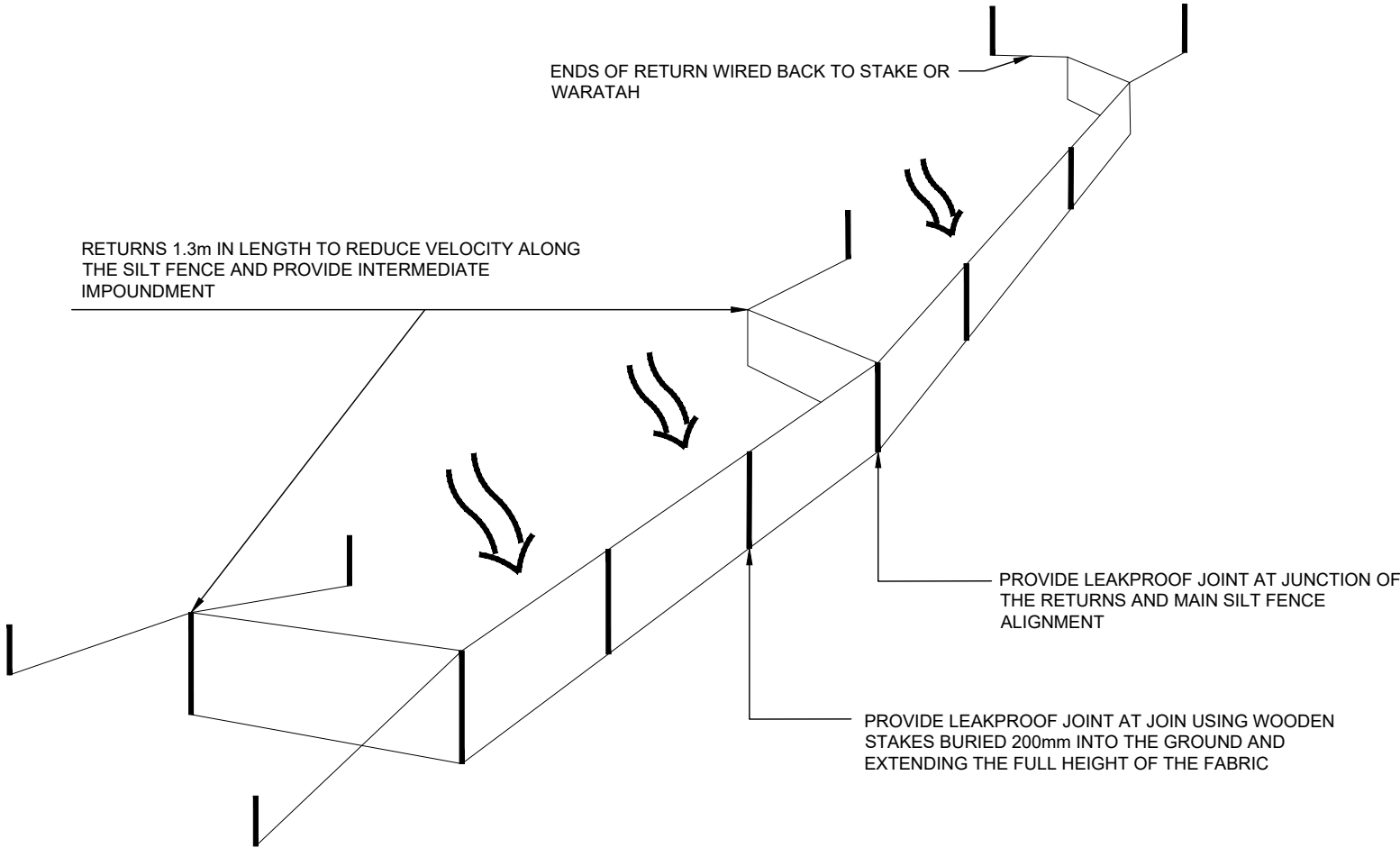
SILT FENCE DESIGN CRITERIA TABLE



SILT FENCE ELEVATION



SILT FENCE CROSS-SECTION



SILT FENCE WITH RETURNS AND SUPPORT WIRE

REV.	DESCRIPTION	CHECK	APP'D	DATE	SCALE	1:75 AT A3
					DESIGN	PF 06.21
					DRAWN	PF 06.21
					DRAWING CHECK	PF 06.21
					DESIGN CHECK	PF 06.21
					APPROVED	PF 06.21

CLIENT	RIVERVIEW PROPERTIES LTD
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SITE ADDRESS	MacLENNAN FARM LANE KAUKAPAKAPA
DRAWING TITLE	EROSION & SEDIMENT CONTROL DETAILS

DRAWING NUMBER	1664 - RC - EW204
DATE	JUNE 2021
REVISION	-

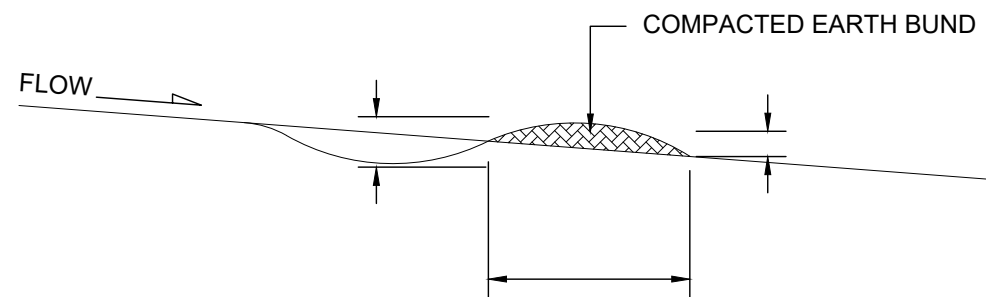


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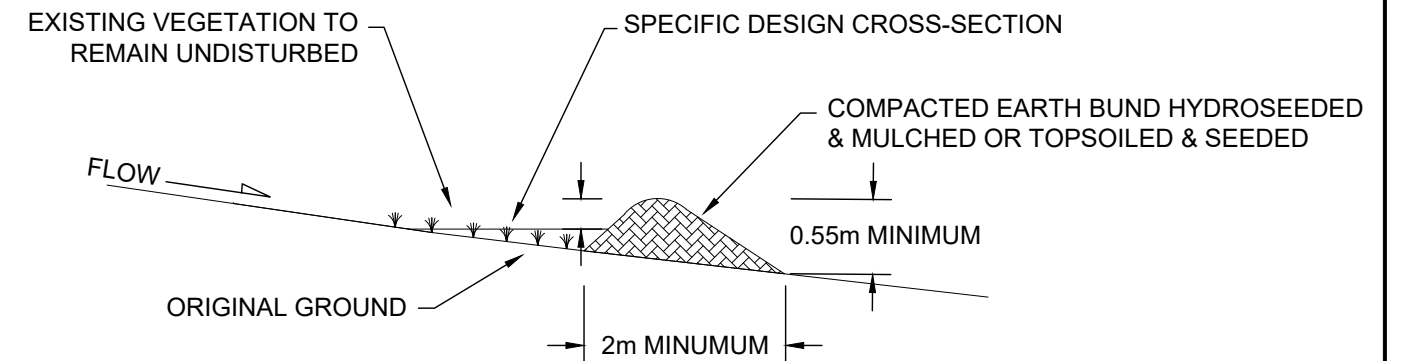
CONTOUR DRAIN SPACING	
SLOPE OF SITE (%)	SPACING (m) OF CONTOUR DRAINS
LESS THAN 5%	50
5 - 10%	40
10 - 15%	30
15 - 30%	20

NOTE:

- THE DIVERSION CHANNELS SHOULD BE PARABOLIC OR TRAPEZOIDAL IN SHAPE
- ENSURE INTERNAL SIDES OF THE BUND ARE NO STEEPER THAN 3:1, AND EXTERNAL SIDES NO STEEPER THAN 2:1, AS OUTLINED BELOW



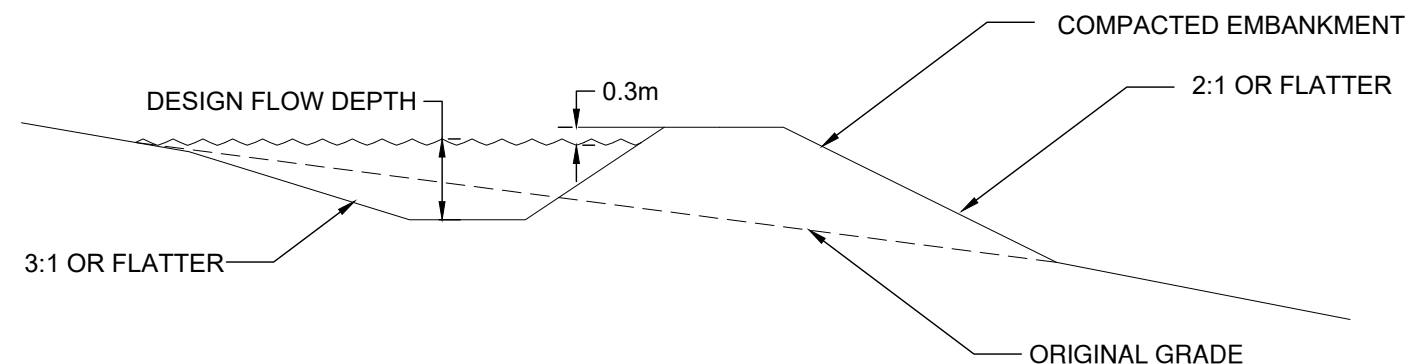
CONTOUR DRAIN CROSS-SECTION



CLEAN WATER DIVERSION CROSS-SECTION

DIRTY WATER DIVERSION
FOR CONSTRUCTION AND OPERATION OF DIRTY WATER DIVERSION CHANNELS AND BUNDS:

- PLAN AND CONSTRUCT ALL DIRTY WATER DIVERSION WORKS AS PART OF THE INITIAL SITE ESTABLISHMENT/ DEVELOPMENT ACTIVITIES
- DEFINE THE ROUTE AND SURVEY IT TO ACHIEVE THE CORRECT GRADIENT
- CONSTRUCT DRAINS WITH A UNIFORM GRADE ALONG THE INVERT, AS SUDDEN DECREASES MAY CAUSE SEDIMENT TO ACCUMULATE CAUSING THE BANK TO OVERTOP
- ENSURE THE BUNDS ASSOCIATED WITH THE DIVERSIONS ARE WELL COMPACTED AND STABILISED. IN SOME INSTANCES, THIS MAY REQUIRE SPECIFIC GEOTECHNICAL DESIGN TO ENSURE THE STABILITY AND INTEGRITY OF THE STRUCTURE
- MONITOR DIVERSIONS FOR EROSION. SUBJECT TO THE SOILS ON SITE IT IS LIKELY THAT EROSION CONTROL WILL BE NEEDED WHERE THE GRADIENTS ARE GREATER THAN 2% OR WHERE THE DESIGN VELOCITIES EXCEED 1m/SEC
- ENSURE THE FINISHED CROSS-SECTION MEETS ALL DESIGN REQUIREMENTS
- PROVIDE AN ADEQUATE OUTLET FOR EACH DIVERSION (i.e DIRTY WATER TO A SEDIMENT CONTROL DEVICE).



DIRTY WATER DIVERSION CROSS-SECTION

REV.	DESCRIPTION	CHECK	APP'D	DATE	SCALE	1:75 AT A3	CLIENT	SITE ADDRESS	DRAWING NUMBER	DATE	REVISION	ASPIRE CONSULTING ENGINEERS
					DESIGN	PF	RIVERVIEW PROPERTIES LTD	MacLENNAN FARM LANE KAUKAPAKAPA	1664 - RC - EW205	JUNE 2021	-	Ph: 09 426 6552 Web: www.aspeng.co.nz
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					DESIGN CHECK	PF						
					APPROVED	PF						



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HORIZONTAL DATUM: GEODETIC DATUM 2000
VERTICAL DATUM: AUCKLAND MEAN SEA LEVEL 1946

REV.	DESCRIPTION	CHECK	APP'D	DATE	SCALE	1:1250 AT A3		
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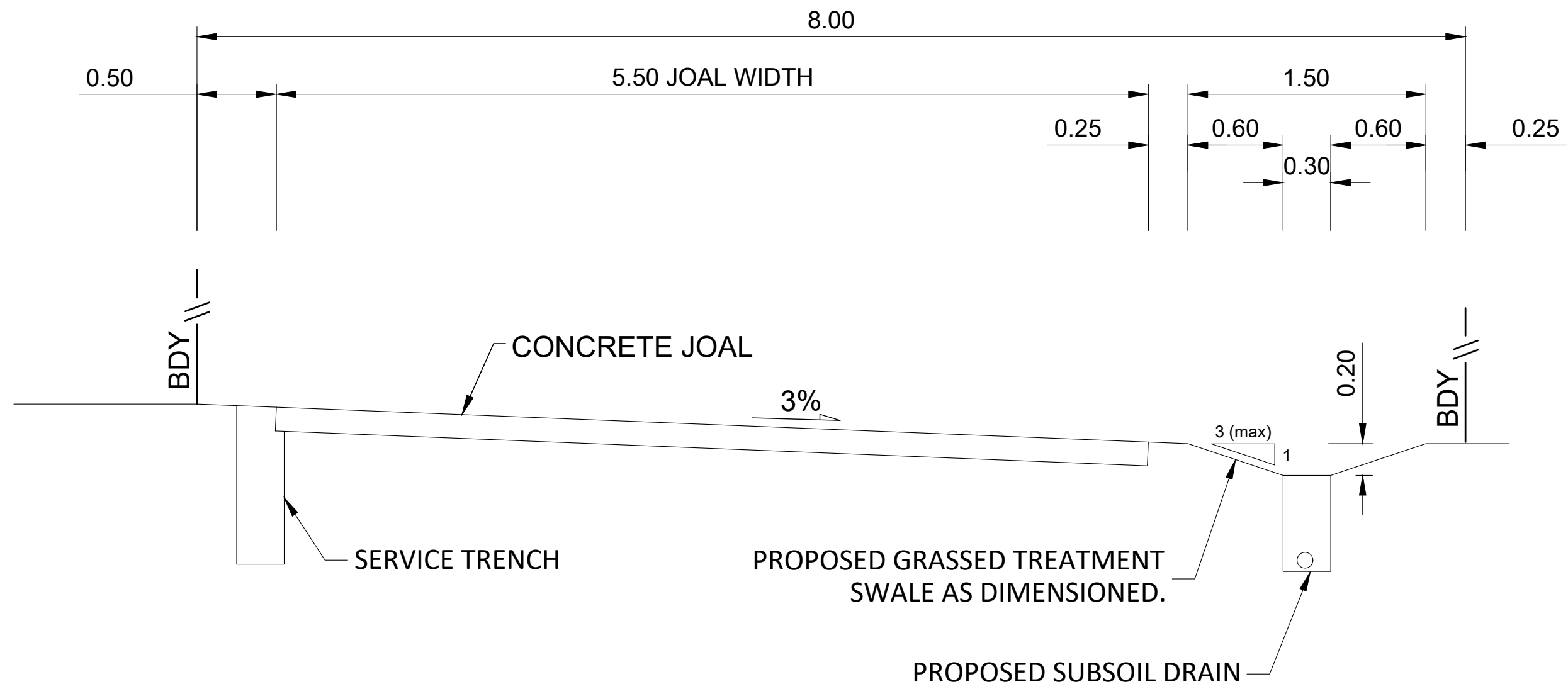
CLIENT
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SITE ADDRESS
MacLENNAN FARM LANE KAUKAPAKAPA
DRAWING TITLE
PROPOSED JOAL PLAN

DRAWING NUMBER	
1664 - RC - RD301	
DATE	REVISION
JUNE 2021	-



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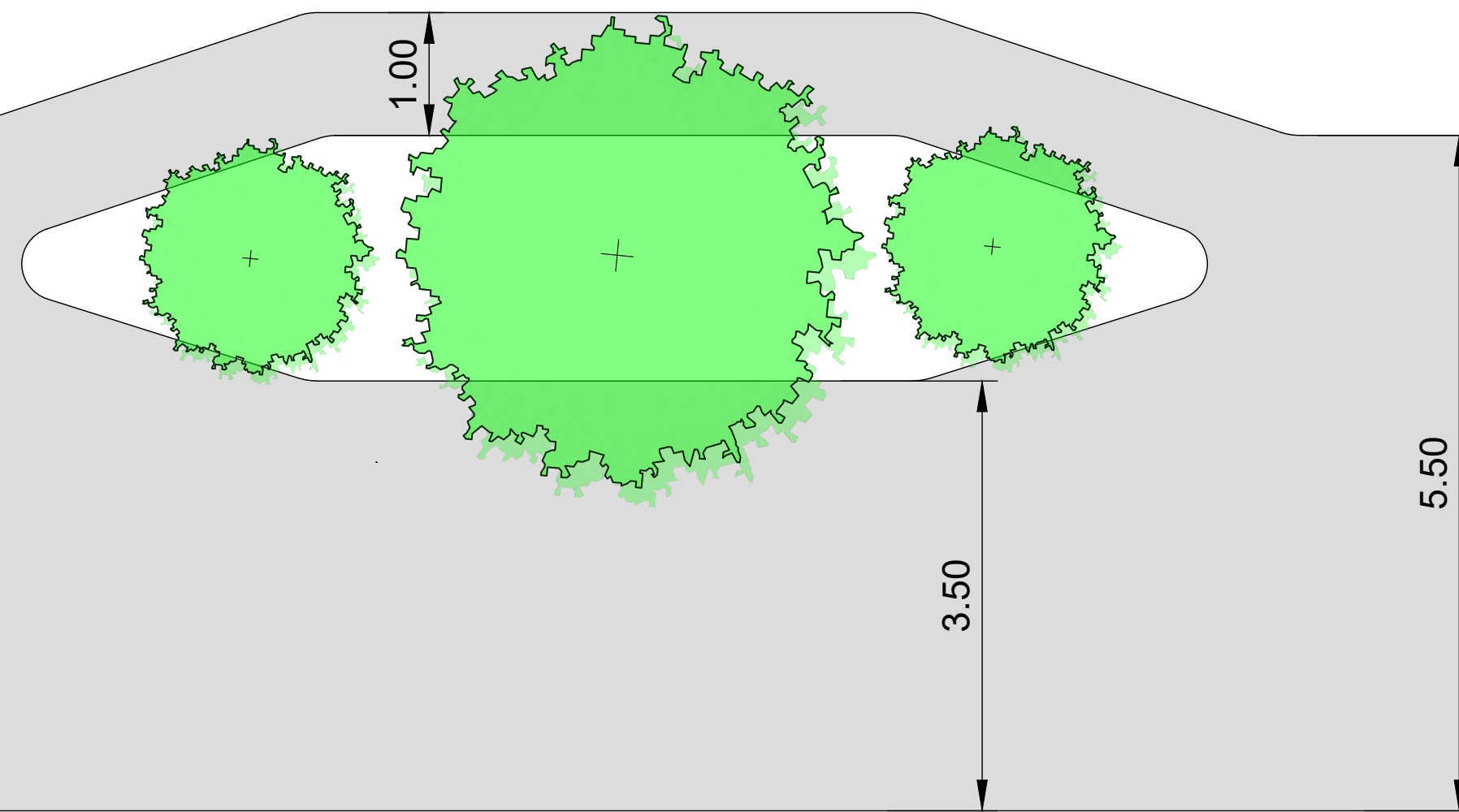
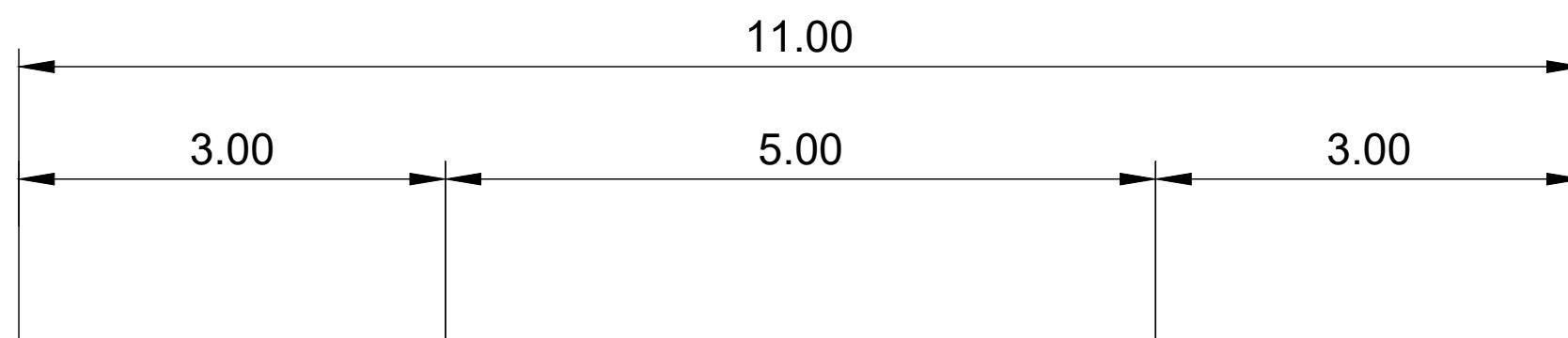
TYPICAL 5.5m JOAL CROSS SECTION - WITH SWALE

NOTE:
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HORIZONTAL DATUM: GEODETIC DATUM 2000
VERTICAL DATUM: AUCKLAND MEAN SEA LEVEL 1946

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					APPROVED	PF	06.21		
							Conditions of Use: These drawings shall only be used for the purpose for which they were supplied. Do not measure off this drawing. If doubt please contact Engineer.	DRAWING TITLE	DATE
								TYPICAL JOAL X-SECTION	JUNE 2021
									REVISION
									A



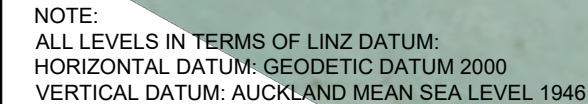
Ph: 09 426 6552
Web: www.aspeng.co.nz



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 VERTICAL DATUM: AUCKLAND MEAN SEA LEVEL 1946


REV.	DESCRIPTION	CHECK	APP'D	DATE	SCALE	1:50 AT A3	CLIENT	SITE ADDRESS	DRAWING NUMBER	DATE	REVISION	ASPIRE CONSULTING ENGINEERS
					DESIGN	PF	RIVERVIEW PROPERTIES LTD	MacLENNAN FARM LANE KAUKAPAKAPA	1664 - RC - RD303	JUNE 2021	-	Ph: 09 426 6552 Web: www.aspeng.co.nz
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					DESIGN CHECK	PF						
					APPROVED	PF						
							Conditions of Use: These drawings shall only be used for the purpose for which they were supplied. Do not measure off this drawing. If doubt please contact Engineer.	DRAWING TITLE				
								TYPICAL JOAL NARROWING				

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NOTE:
LOTS 1 - 6 & 16 TO
DISCHARGE TO THE EXISTING
ROADSIDE SWALES

REV.	DESCRIPTION	CHECK	APP'D	DATE	SCALE 1:1250 AT A3		CLIENT RIVERVIEW PROPERTIES LTD	SITE ADDRESS MacLENNAN FARM LANE KAUKAPAKAPA	DRAWING NUMBER	
A	LOT 5 CONNECTION ADDED			01.22	NAME	DATE			1664 - RC - SW401	
					DESIGN	PF 06.21				
					DRAWN	PF 06.21				
					DRAWING CHECK	PF 06.21				
					DESIGN CHECK	PF 06.21	Conditions of Use: <i>These drawings shall only be used for the purpose for which they were supplied. Do not measure off this drawing. If doubt please contact Engineer.</i>	DRAWING TITLE PRELIMINARY STORMWATER LAYOUT	DATE	REVISION
					APPROVED	PF 06.21			JUNE 2021	A



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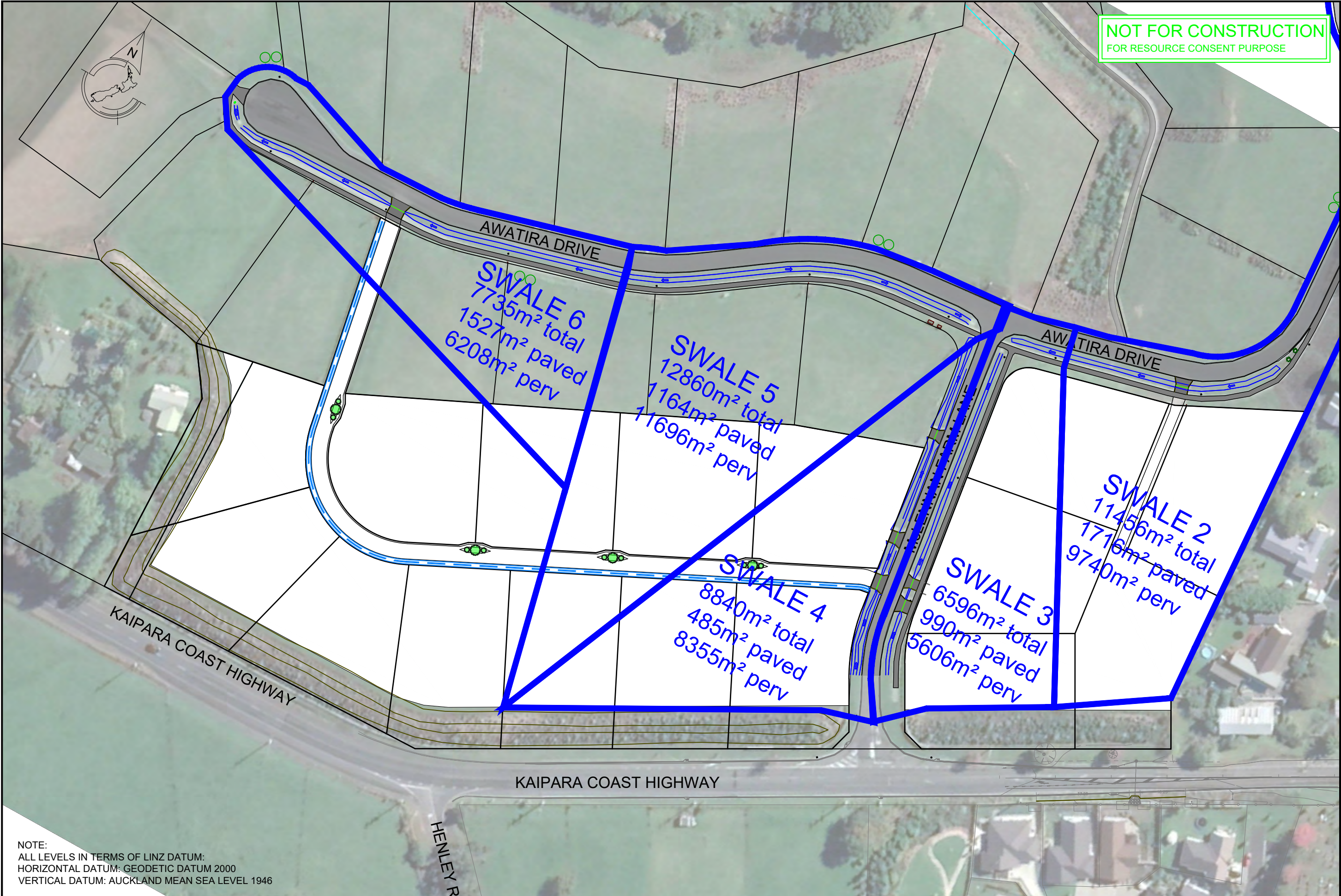
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SITE ADDRESS
MacLENNAN FARM LANE KAUKAPAKAPA
DRAWING TITLE
SWALE CATCHMENT PLAN

DRAWING NUMBER
1664 - RC - SW402
DATE
JUNE 2021
REVISION
-

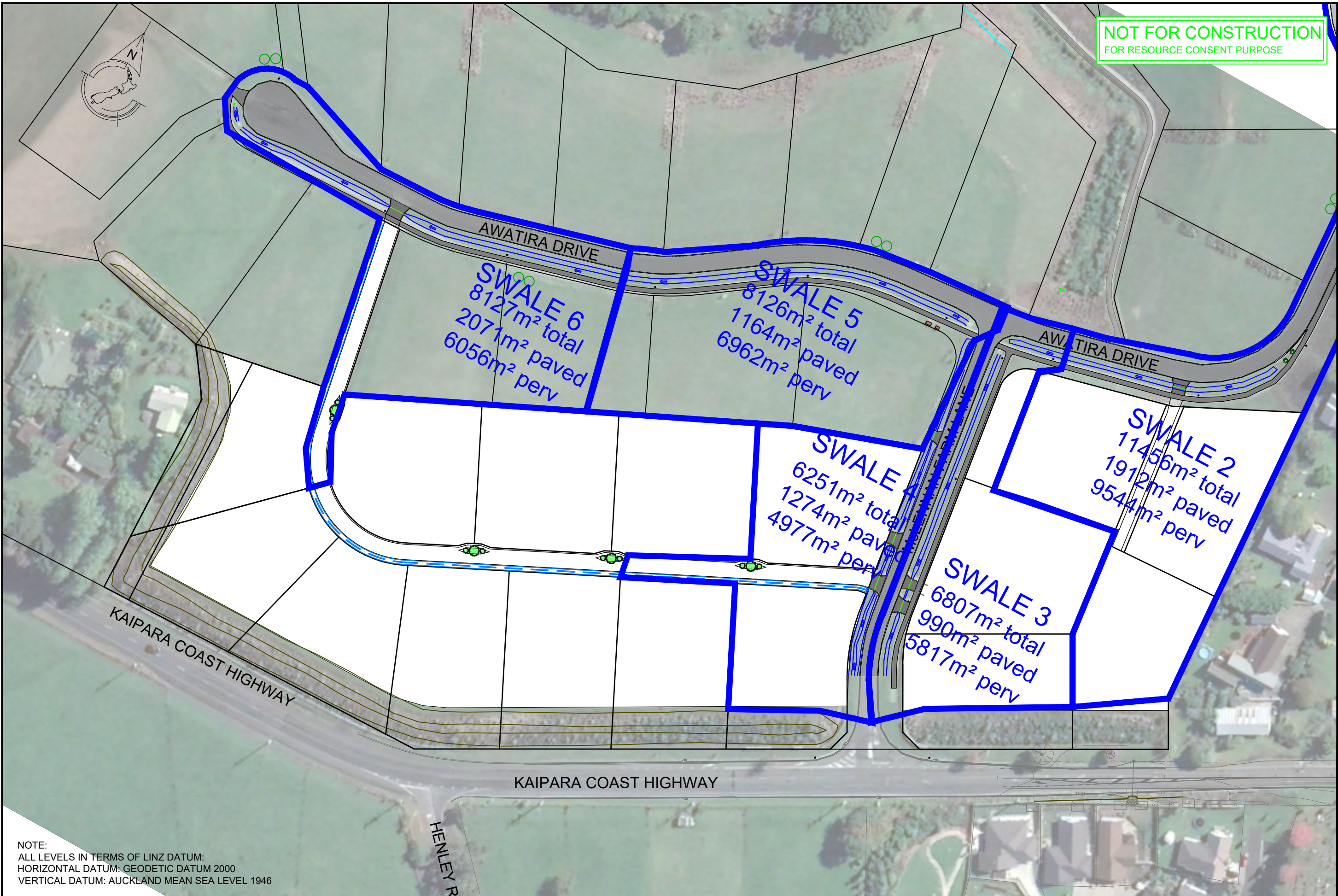
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						NAME	DATE				1664 - RC - SW403				
					DESIGN	PF	01.22		RIVERVIEW PROPERTIES LTD Conditions of Use: These drawings shall only be used for the purpose for which they were supplied. Do not measure off this drawing. If doubt please contact Engineer.	MacLENNAN FARM LANE KAUKAPAKAPA DRAWING TITLE EXISTING SWALE DESIGN CATCHMENT	JAN 2022		-		
					DRAWN	PF	01.22								
					DRAWING CHECK	PF	01.22								
					DESIGN CHECK	PF	01.22								
					APPROVED	PF	01.22								

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					APPROVED	PF	01.22	

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SITE ADDRESS
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DRAWING TITLE
EXISTING SWALE PROPOSED CATCHMENT

DRAWING NUMBER
1664 - RC - SW404
DATE
JAN 2022
REVISION
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SITE ADDRESS
MacLENNAN FARM LANE KAUKAPAKAPA
DRAWING TITLE
FIRE FIGHTING WATER SUPPLY PLAN

DRAWING NUMBER
1664 - RC - WS501
DATE
JUNE 2021
REVISION
-

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RIVERVIEW PROPERTIES

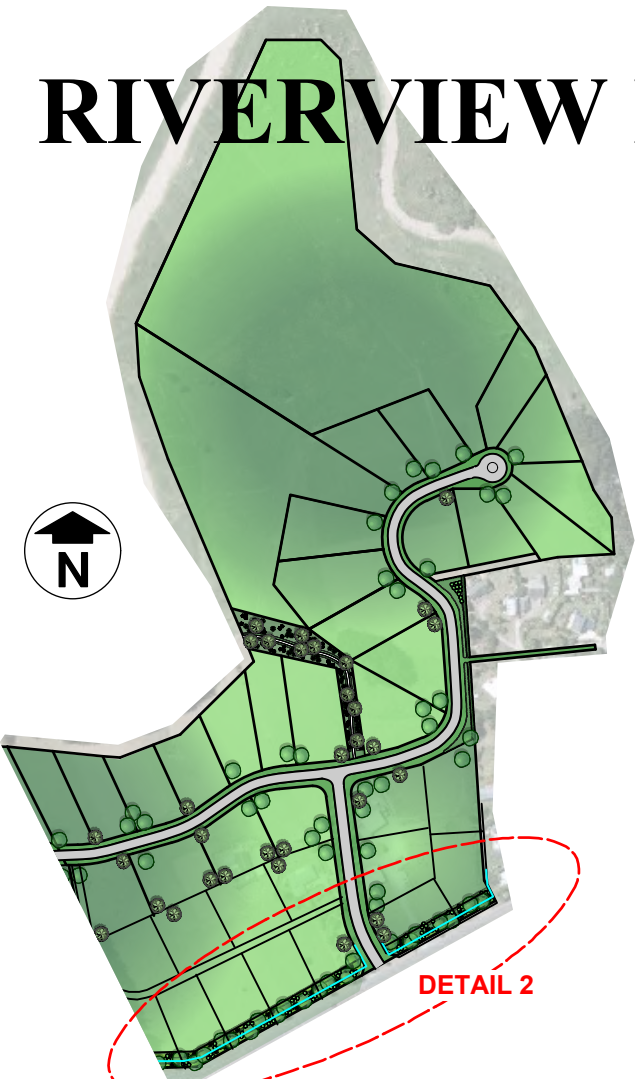


PROPOSED RESIDENTIAL SUBDIVISION 787 KAIPARA COAST HIGHWAY-KAUKAPAKAPA OVERALL LANDSCAPE PLAN

LASF landscape architects
po box 60-164 auckland
phone 09 8176252 nz

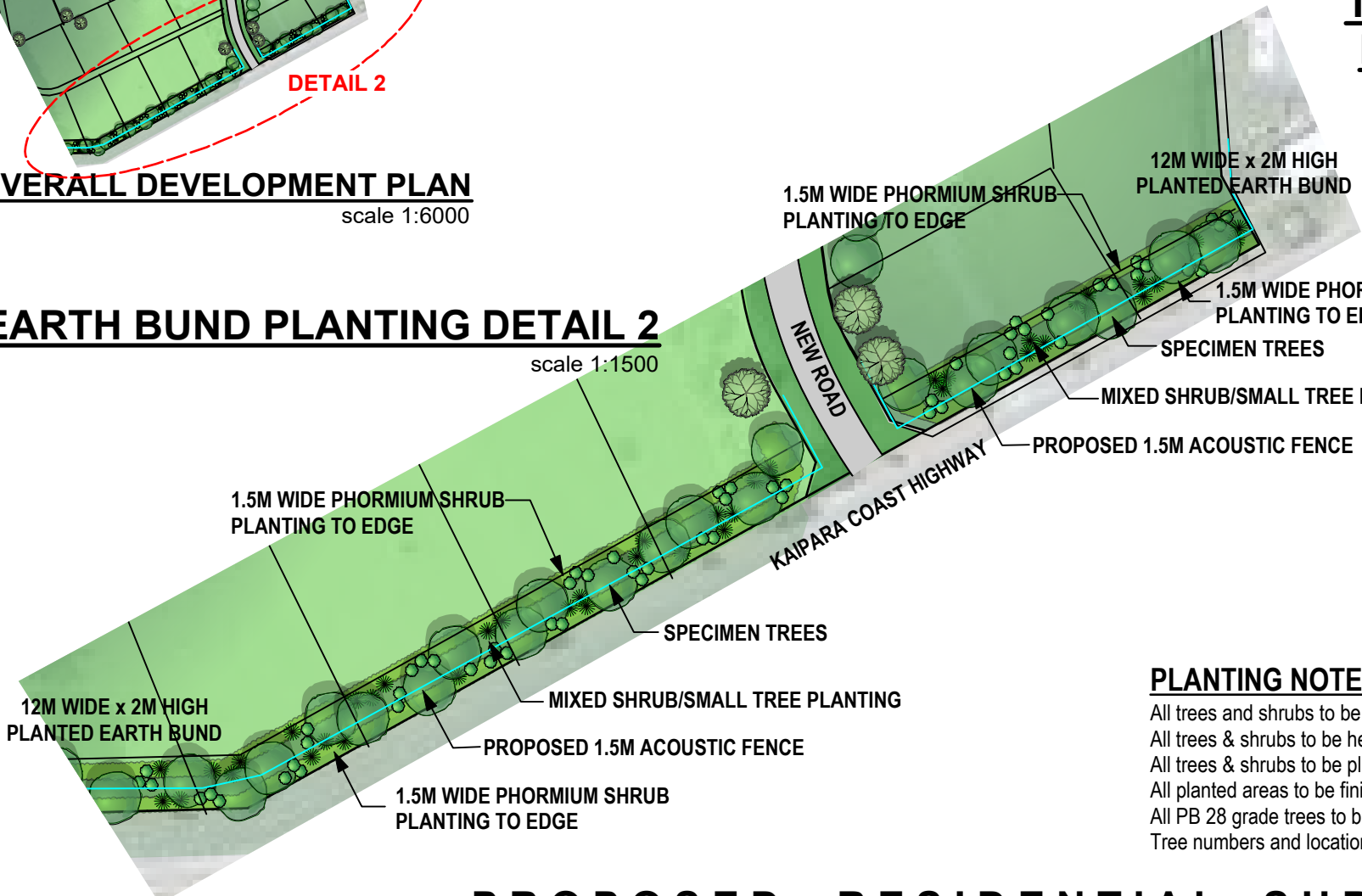
ISSUE	DATE 19.04.22	REVISION	A - Add 16 new residential sites	PROJECT #	SALKC
PROJECT	787 KAIPARA COAST HIGHWAY			DWG #	001
CLIENT	RIVERVIEW PROPERTIES			DATE # 19 APRIL 2022	
DWG	LANDSCAPE PLAN			SCALE @ A3	
	DRAWN	SJF	CHKD	MS	REVISION

RIVERVIEW PROPERTIES



OVERALL DEVELOPMENT PLAN
scale 1:6000

EARTH BUND PLANTING DETAIL 2
scale 1:1500



PROPOSED 1.5M HIGH ACOUSTIC FENCE
FENCE TO BE 1.5M CLOSED BOARD FENCE
FINISHED IN BLACK STAIN

COPROSMA 3-5M MATURE HEIGHT

PHORMIUM PLANTING
MATURE HEIGHT 2.5M

PRIVATE LOT

EXISTING BUND

KAIPARA COAST HIGHWAY
GRASS BERM

TYPICAL CROSS SECTION OF EXISTING BUND PLANTING AND THE PROPOSED 1.5M FENCE

HOHERIA 6M+

MANUKA & KANUKA 5M+

KARAKA/PLANE/TOTARA SPECIMEN TREES 8M+

PITTOSPORUM/ALNUS 5M+

COPROSMA 3-5M MATURE HEIGHT

MANUKA & KANUKA 5M+

PHORMIUM PLANTING
MATURE HEIGHT 2.5M

PLANT SCHEDULE

BOTANICAL NAME:	COMMON NAME:	SPACING:	GRADE:	EST. QUANTITY:
BUND SPECIES:				
Podocarpus totara	Totara	5-8m	PB 28	30
Corynocarpus laevigatus	Karaka	5-8m	PB 28	35
Alnus jorullensis	Mexican Alder	5-8m	PB 28	45
Platanus acerfolia	Plane Tree	5-8m	PB 28	35
Hoheria populnea	Lacebark	3m	PB 5	105
Leptospermum scoparium	Manuka	1m	PB 2	475
Coprosma robusta		1m	PB 2	325
Kunzea ericoides	Kanuka	1m	PB 2	335
Pittosporum tenuifolium	Kohuhu	1m	PB 3	275
Phormium tenax	Harakeke	1m	PB 2	675

PLANTING NOTES

All trees and shrubs to be true to name and species. All substitutions to be approved by Landscape Architect.
All trees & shrubs to be healthy and free of disease and/or injury at time of planting.
All trees & shrubs to be planted to the same depth as growing in container. All trees & shrubs to be watered prior to planting.
All planted areas to be finished with a 100mm layer of bark mulch.
All PB 28 grade trees to be double staked and tied.
Tree numbers and locations indicated may vary. Final numbers will need to be confirmed on site prior to construction.

PROPOSED RESIDENTIAL SUBDIVISION 787 KAIPARA COAST HIGHWAY-KAUKAPAKAPA BUND & WALKWAY PLANTING PLAN

LASF landscape architects
p o b o x 60-164 a u c k l a n d
p h o n e 09 8176252 n z

ISSUE	DATE 19.04.22	REVISION	A - Add 16 new residential sites
PROJECT	787 KAIPARA COAST HIGHWAY		
CLIENT	RIVERVIEW PROPERTIES		
DWG	LANDSCAPE PLAN		
DATE # 19 APRIL 2022	SCALE @ A3	DRAWN SJF	CHKD MS
PROJECT # SALKC	DWG # 002	REVISION	