



Appendix P Civil Concept Design Plans

Fast-Track Approvals Act 2024 Substantive Application

Hinuera Solar Farm

Harmony Energy NZ #6 Limited

SLR Project No.: 880.016894.00001

19 August 2026



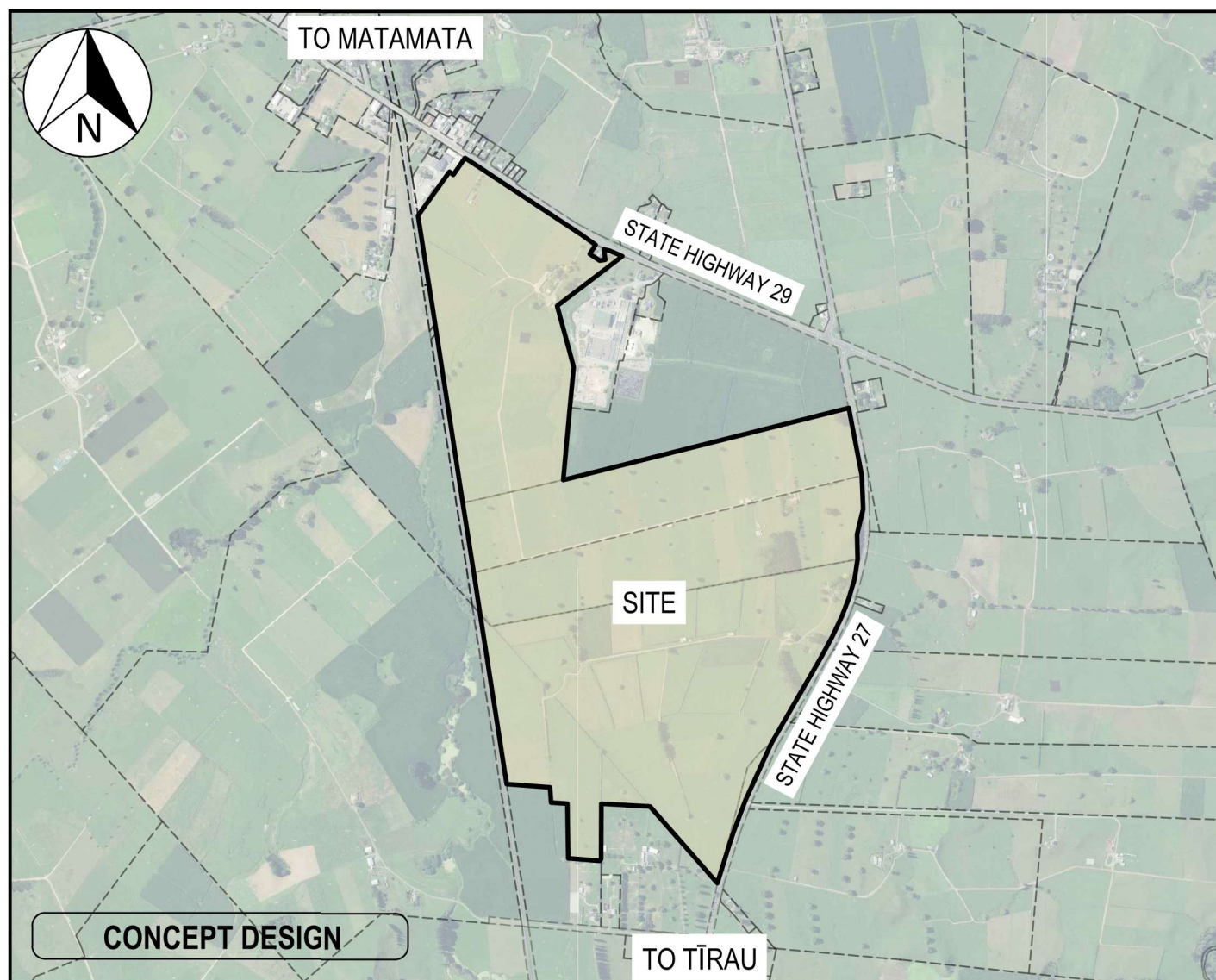
HINUERA SOLAR FARM

STATE HIGHWAY 27 & 29

HINUERA

FOR

HARMONY ENERGY #6 NZ LIMITED



LOCALITY PLAN
SCALE 1:20000 @ A3

SHT.NO.	SHEET TITLE	REVISION
Engineering Design Plans		
C000's	Cover Sheet & Index	D
C200's	Erosion and Sediment Control Plans	C
C220's	Cut/Fill Plans	C
C300's	Roading Plans	C
C410's	Flood Model Plans - Pre-Development 10-Year	B
C413's	Flood Model Plans - Pre-Development 100-Year	B
C414's	Flood Model Plans - Pre-Development 250-Year	B
C418's	Flood Model Plans - Post-Development 100-Year	B
C700's	Panel and Utility Plans	D

PROJECT NUMBER : MM-0809
ISSUED DATE : MAY 2026

150mm
100
90
80
70
60
50
40
30
20
10
0



HINUERA ROAD

DWG-C200 - SHEET 200-2

STATE HIGHWAY 29

STATE HIGHWAY 27

STATE HIGHWAY 29

STATE HIGHWAY 29

STATE HIGHWAY 27

DWG-C200 - SHEET 200-3

DWG-C200 - SHEET 200-5

DWG-C200 - SHEET 200-4

DWG-C200 - SHEET 200-6

KINLEITH BRANCH RAILWAY LINE

STATE HIGHWAY 27

GORE ROAD

Notes

13. The contractor shall provide asbuilt of working sediment control devices and confirmation of pond/decent volumes to the engineer.
14. Refer to C200-7 drawing for standard details.

Notes

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2. Co-ordinates in terms of Mount Eden 2000.
3. Reduced Levels are in terms of NZVD 2016.
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6. Areas, Boundaries and Measurements are approximate only and subject to final survey.
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Legend

---	EX BDY
---	PROP BDY
---	EX MAJOR CONTOUR
---	EX MINOR CONTOUR
---	PROP SILT FENCE
---	PROP STOCKPILE
---	EX WATERCOURSE
---	PR HARMONY OFFSET
---	PROP 6m WIDE ROAD
---	PROP 5m WIDE ROAD
---	PROP ENTRANCEWAY
---	PR HARDSTAND AREA

C	CONCEPT DESIGN	JLD	05/26
B	CONCEPT DESIGN	JLD	05/26
A	CONCEPT DESIGN	DCM	11/25
Rev	Description	By	Date
		By	Date
Survey	LINZ		11/25
Design	DCM		11/25
Drawn	DCM		11/25
Checked	JLD		11/25



Project
HINUERA SOLAR FARM
SH 27 & 29, HINUERA
FOR
HARMONY ENERGY
NZ #6 LIMITED

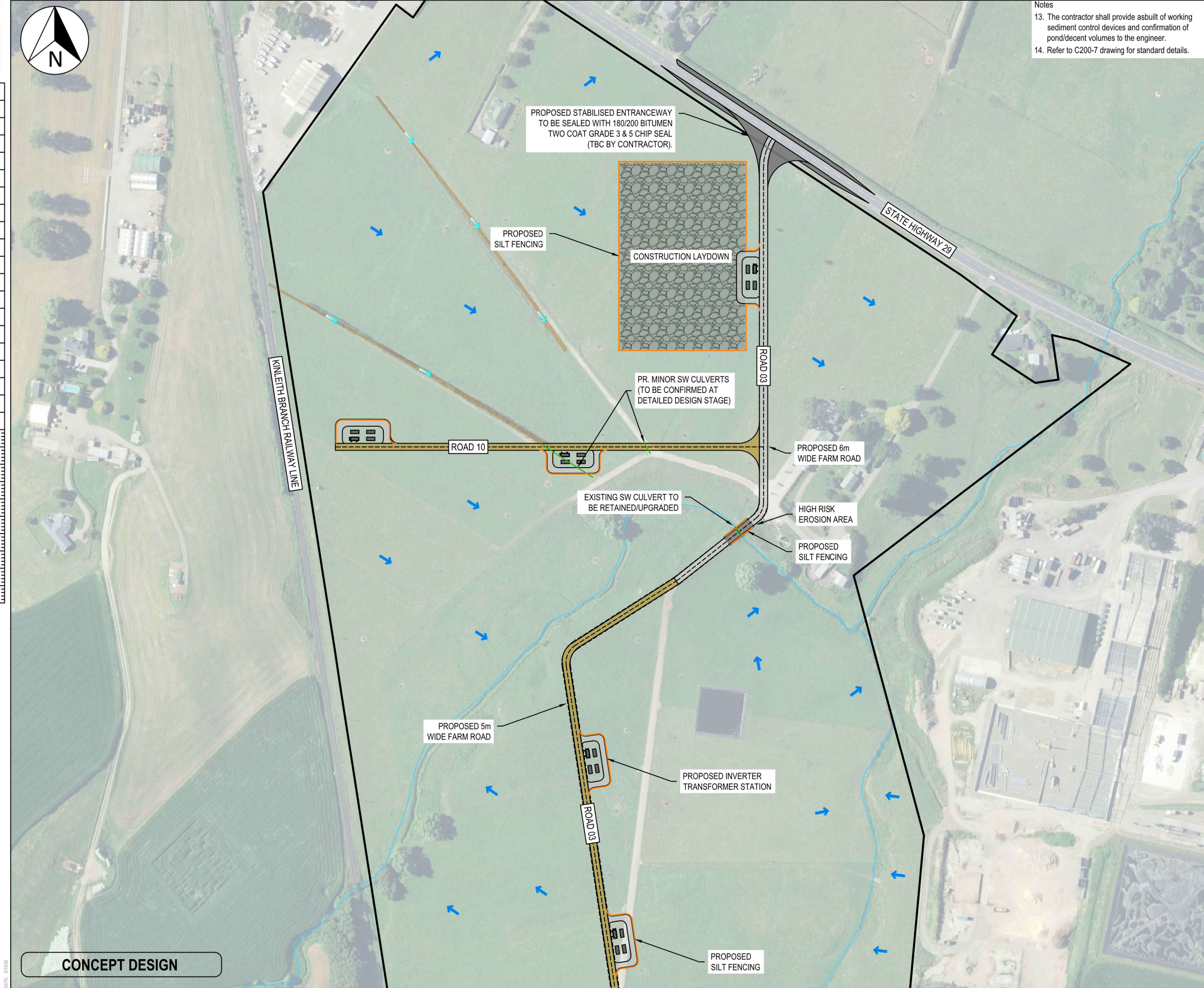
Title
PROPOSED EROSION
AND SEDIMENT CONTROL
PLAN

Project no.	MM-0809		
Scale	1:10000 @ A3		
Cad file	C200 - ESC.DWG		
Drawing no.	C200-1	Rev	C

CONCEPT DESIGN

DATE: 5/15/26

150mm ORIGINAL SIZE: A3



CONCEPT DESIGN

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---	PROP 5m WIDE ROAD
---	PROP ENTRANCEWAY
---	PR HARDSTAND AREA
---	EX OVERLAND FLOW
---	FARM DRAINS/SWALES

C	CONCEPT DESIGN	JLD	05/26
B	CONCEPT DESIGN	JLD	05/26
A	CONCEPT DESIGN	DCM	11/25
Rev	Description	By	Date
		By	Date
Survey	LINZ		11/25
Design	DCM		11/25
Drawn	DCM		11/25
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Project
HINUERA SOLAR FARM
SH 27 & 29, HINUERA
FOR
HARMONY ENERGY
NZ #6 LIMITED

Title
PROPOSED EROSION
AND SEDIMENT CONTROL
PLAN - NORTH

Project no.	MM-0809
Scale	1:2500 @ A3
Cad file	C200 - ESC.DWG
Drawing no.	C200-2
Rev	C

150mm ORIGINAL SIZE: A3



KINLEITH BRANCH RAILWAY LINE



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		By	Date
Survey	LINZ		11/25
Design	DCM		11/25
Drawn	DCM		11/25
Checked	JLD		11/25

M **Maven Matamata**
matamatainfo@maven.co.nz
www.maven.co.nz
8 Tainui Street, Matamata
New Zealand

Project
HINUERA SOLAR FARM
SH 27 & 29, HINUERA
FOR
HARMONY ENERGY
NZ #6 LIMITED

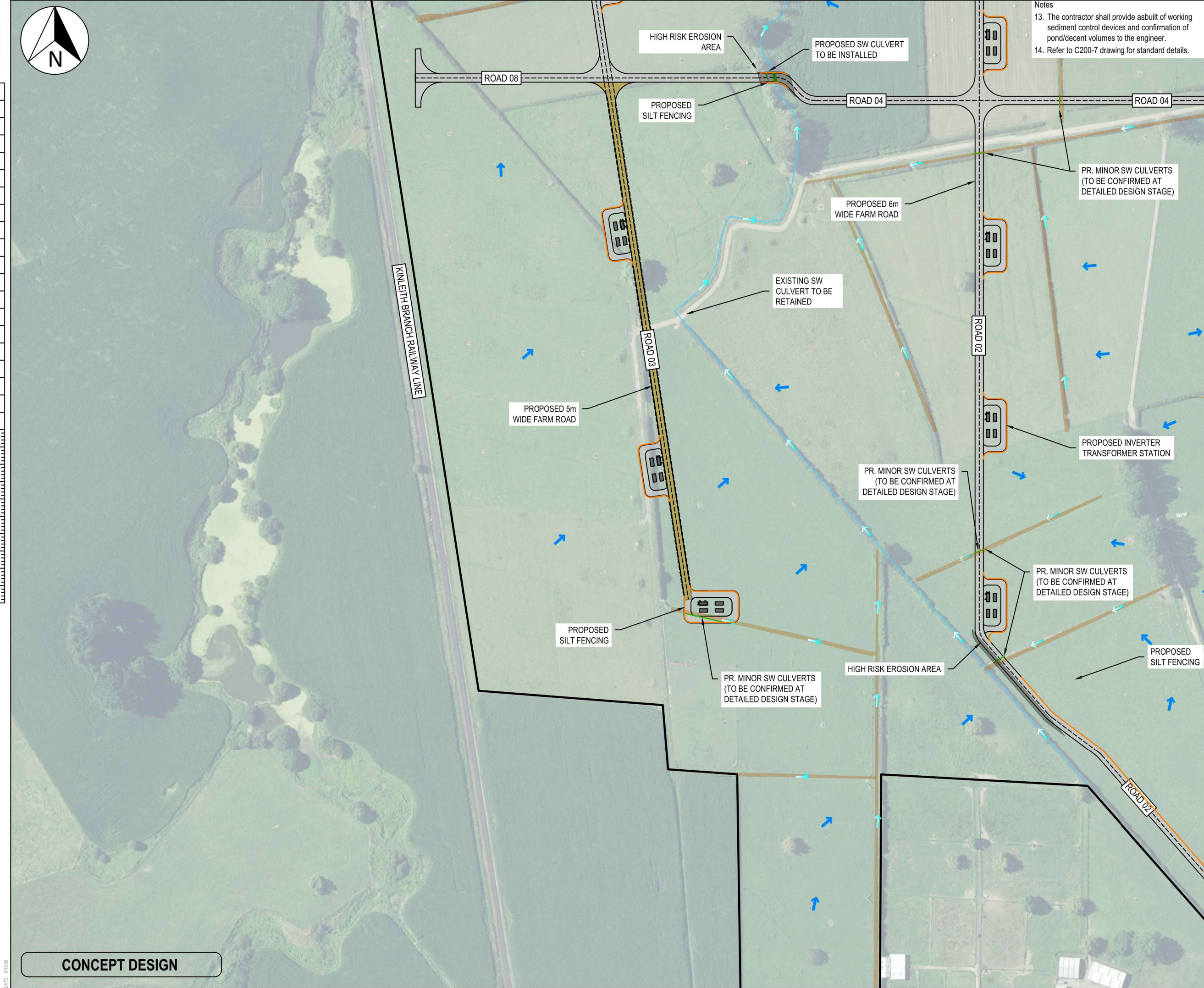
Title
PROPOSED EROSION
AND SEDIMENT CONTROL
PLAN - NORTHWEST

Project no.	MM-0809
Scale	1:2500 @ A3
Cad file	C200 - ESC.DWG
Drawing no.	C200-3
Rev	C

CONCEPT DESIGN

DATE: 5/15/28

ORIGINAL SIZE: A3
150mm
100
90
80
70
60
50
40
30
20
10
0



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B	CONCEPT DESIGN	JLD	05/26
A	CONCEPT DESIGN	DCM	11/25
Rev	Description	By	Date
Survey	LINZ		11/25
Design	DCM		11/25
Drawn	DCM		11/25
Checked	JLD		11/25



Project
**HINUERA SOLAR FARM
SH 27 & 29, HINUERA
FOR
HARMONY ENERGY
NZ #6 LIMITED**

Title
**PROPOSED EROSION
AND SEDIMENT CONTROL
PLAN - SOUTHWEST**

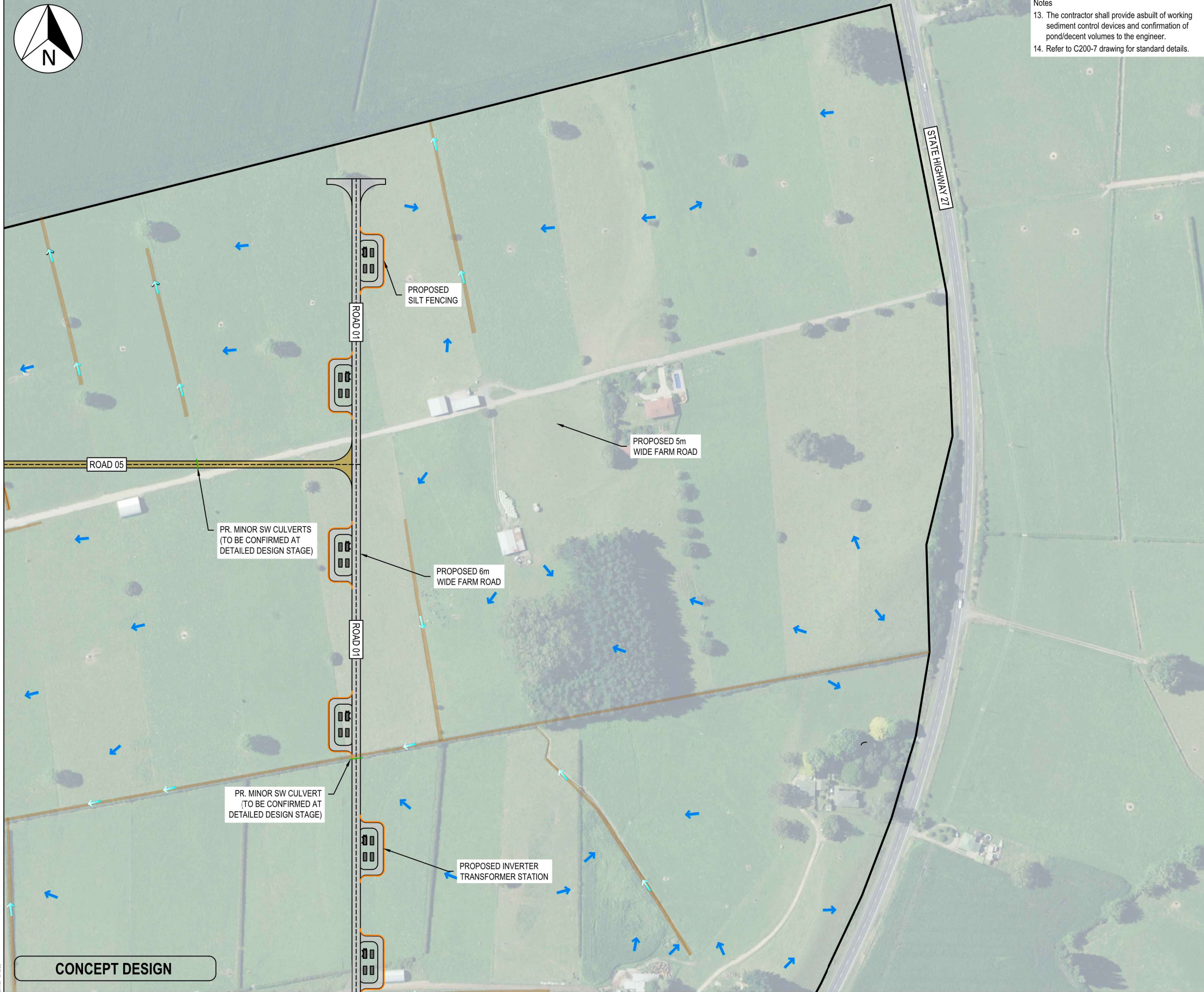
Project no.	MM-0809
Scale	1:2500 @ A3
Cad file	C200 - ESC.DWG
Drawing no.	C200-4
Rev	C

CONCEPT DESIGN

DATE: 5/15/28

150mm
100
90
80
70
60
50
40
30
20
10
0

DATE: 5/15/28



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Survey	LINZ	11/25	
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Project

HINUERA SOLAR FARM
SH 27 & 29, HINUERA
FOR
HARMONY ENERGY
NZ #6 LIMITED

Title

PROPOSED EROSION
AND SEDIMENT CONTROL
PLAN - NORTHEAST

Project no.	MM-0809		
Scale	1:2500 @ A3		
Cad file	C200 - ESC.DWG		
Drawing no.	C200-5	Rev	C

150mm ORIGINAL SIZE: A3



ROAD 04

PR. MINOR SW CULVERT
(TO BE CONFIRMED AT
DETAILED DESIGN STAGE)

PR. MINOR SW CULVERTS
(TO BE CONFIRMED AT
DETAILED DESIGN STAGE)

O&M BUILDING
AND WAREHOUSE

PROPOSED SILT
FENCING

PR. MINOR SW CULVERT
(TO BE CONFIRMED AT
DETAILED DESIGN STAGE)

ROAD 06

PROPOSED STABILISED ENTRANCEWAY
TO BE SEALED WITH 180/200 BITUMEN
TWO COAT GRADE 3 & 5 CHIP SEAL
(TBC BY CONTRACTOR).

PROPOSED
SILT FENCING

PR. MINOR SW CULVERT
(TO BE CONFIRMED AT
DETAILED DESIGN STAGE)

PROPOSED INVERTER
TRANSFORMER STATION

PROPOSED 6m
WIDE FARM ROAD

ROAD 01

STATE HIGHWAY 27

PROPOSED
SILT FENCING

SWITCHING
STATION

INDICATIVE
WATER TANK
LOCATION

ROAD 02

ROAD 11

CONCEPT DESIGN

Notes

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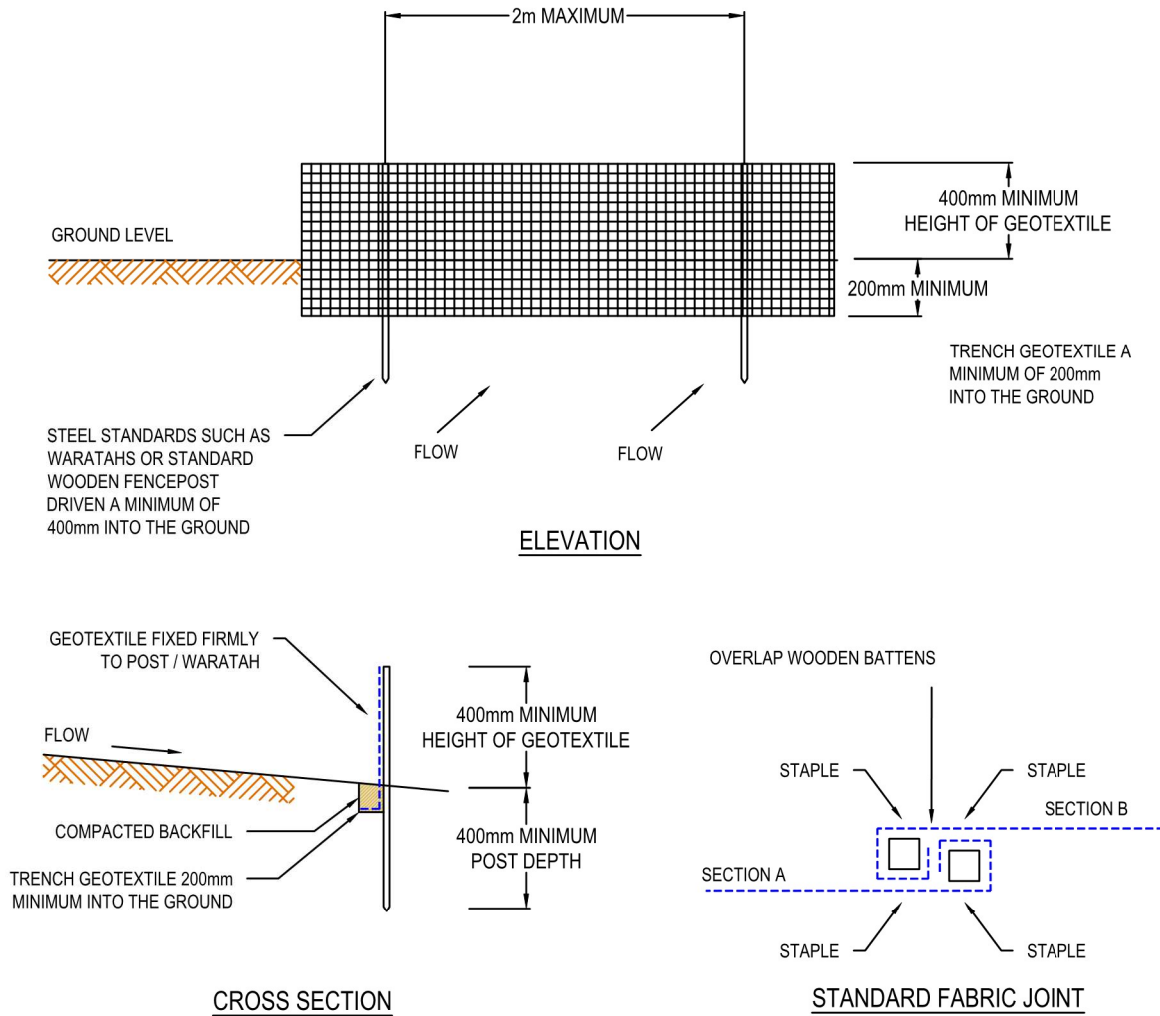
Project
HINUERA SOLAR FARM
SH 27 & 29, HINUERA
FOR
HARMONY ENERGY
NZ #6 LIMITED

Title
PROPOSED EROSION
AND SEDIMENT CONTROL
PLAN - SOUTHEAST

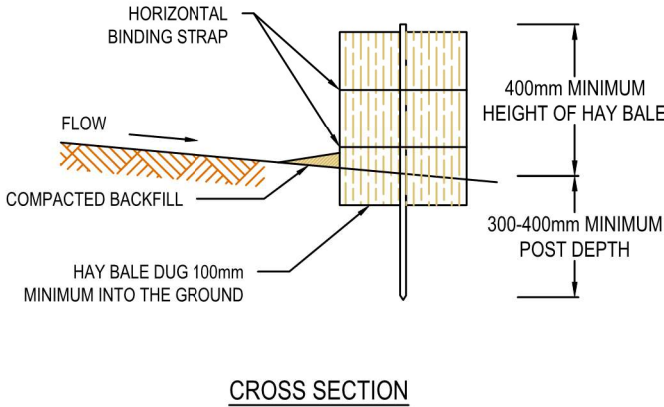
Project no.	MM-0809		
Scale	1:2500 @ A3		
Cad file	C200 - ESC.DWG		
Drawing no.	C200-6	Rev	C

150mm
100
90
80
70
60
50
40
30
20
10
0

DATE: 5/15/26



SILT FENCE CONSTRUCTION DETAILS



HAY BALE FILTER DAM - TYPICAL DETAIL

SILT FENCE DESIGN CRITERIA:

SLOPE STEEPNESS %	SLOPE LENGTH (m) (MAXIMUM)	SPACING OF RETURNS (m)
< 2%	N/A	UNLIMITED
2-10%	40	60
10-20%	30	50
20-33%	20	40
33-50%	15	30
>50%	6	20

GRAB TENSILE STRENGTH: 440N (ASTM D4632)
TENSILE MODULUS: 0.140 pa (MINIMUM)
APPARENT OPENING SIZE: 0.1-0.5mm (ASTM D4751)

HAY BALE FILTER DAM DESIGN CRITERIA:

SLOPE STEEPNESS %	SPACING BETWEEN DAMS (m) (MAX.) 450mm CENTRE HEIGHT OF DAM	SPACING BETWEEN DAMS (m) (MAX.) 600mm CENTRE HEIGHT OF DAM
< 2%	24	30
2-4%	12	15
4-7%	8	11
7-10%	5	6
>10%	UTILISE STABILISED CHANNEL	UTILISE STABILISED CHANNEL

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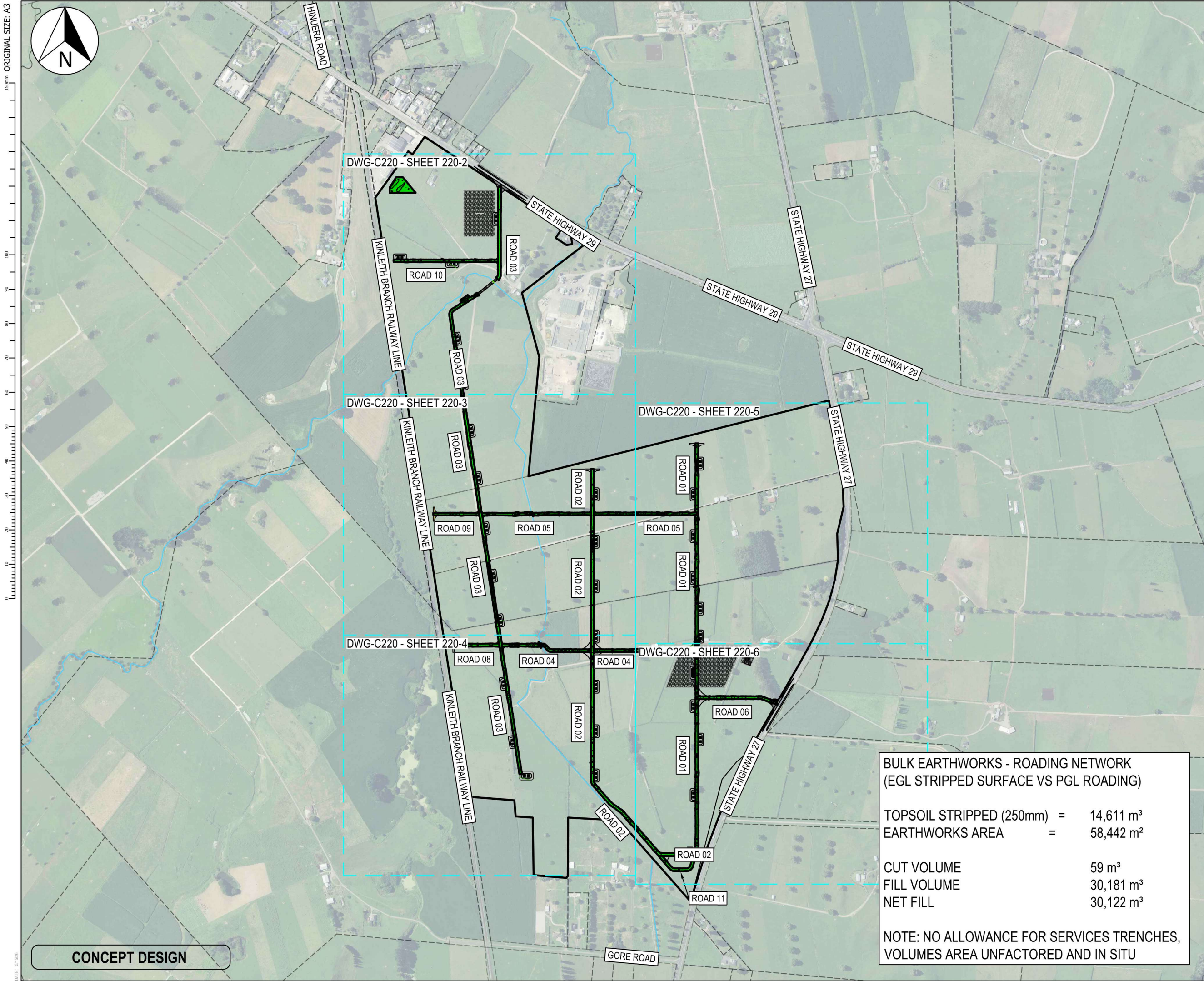
Project
HINUERA SOLAR FARM
SH 27 & 29, HINUERA
FOR
HARMONY ENERGY
NZ #6 LIMITED

Title
PROPOSED EROSION
AND SEDIMENT CONTROL
DETAILS PLAN

Project no.	MM-0809		
Scale	NTS @ A3		
Cad file	C200 - ESC.DWG		
Drawing no.	C200-7	Rev	C

CONCEPT DESIGN

150mm ORIGINAL SIZE: A3



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Cut/Fill Table			
Number	Minimum Elevation	Maximum Elevation	Color
1	-1.200	-1.000	Red
2	-1.000	-0.800	Red
3	-0.800	-0.600	Red
4	-0.600	-0.400	Red
5	-0.400	-0.200	Red
6	-0.200	0.000	Red
7	0.000	0.200	Green
8	0.200	0.400	Green
9	0.400	0.600	Green
10	0.600	0.800	Green
11	0.800	1.000	Green
12	1.000	1.200	Green
13	1.200	1.400	Green
14	1.400	1.600	Green
15	1.600	1.800	Green
16	1.800	2.000	Green
17	2.000	2.200	Green
18	2.200	2.400	Green
19	2.400	>2.400	Green

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Project
HINUERA SOLAR FARM
SH 27 & 29, HINUERA
FOR
HARMONY ENERGY
NZ #6 LIMITED

Title
PROPOSED
ROADING CUT/FILL
PLAN

Project no.	MM-0809
Scale	1:10000 @A3
Cad file	C220 - EW'S.DWG
Drawing no.	C220-1
Rev	C

BULK EARTHWORKS - ROADING NETWORK
(EGL STRIPPED SURFACE VS PGL ROADING)

TOPSOIL STRIPPED (250mm) = 14,611 m³
EARTHWORKS AREA = 58,442 m²

CUT VOLUME 59 m³
FILL VOLUME 30,181 m³
NET FILL 30,122 m³

NOTE: NO ALLOWANCE FOR SERVICES TRENCHES,
VOLUMES AREA UNFACTORED AND IN SITU

CONCEPT DESIGN

150mm
100
90
80
70
60
50
40
30
20
10
0



LOT 1
DPS 83767

LOT 2
DP 556357

LOT 1
DP 420625

LOT 1
DPS 12998

LOT 2
DP 50204

KINLEITH BRANCH RAILWAY LINE

SITE ENTRANCE

CONSTRUCTION LAYDOWN

STATE HIGHWAY 29

ROAD 10

ROAD 03

ROAD 03

**BULK EARTHWORKS - ROAD 3
(EGL STRIPPED SURFACE VS PGL ROADING)**

TOPSOIL STRIPPED (250mm) = 3,822 m³
EARTHWORKS AREA = 15,286 m²

CUT VOLUME 0 m³
FILL VOLUME 8,191 m³
NET FILL 8,191 m³

NOTE: NO ALLOWANCE FOR SERVICES TRENCHES,
VOLUMES AREA UNFACTORED AND IN SITU

**BULK EARTHWORKS - ROAD 10
(EGL STRIPPED SURFACE VS PGL ROADING)**

TOPSOIL STRIPPED (250mm) = 573 m³
EARTHWORKS AREA = 2,290 m²

CUT VOLUME 0 m³
FILL VOLUME 1,156 m³
NET FILL 1,156 m³

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5	-0.400	-0.200	Red
6	-0.200	0.000	Red
7	0.000	0.200	Green
8	0.200	0.400	Green
9	0.400	0.600	Green
10	0.600	0.800	Green
11	0.800	1.000	Green
12	1.000	1.200	Green
13	1.200	1.400	Green
14	1.400	1.600	Green
15	1.600	1.800	Green
16	1.800	2.000	Green
17	2.000	2.200	Green
18	2.200	2.400	Green
19	2.400	<2.400	Green

B	CONCEPT DESIGN	JLD	05/26
A	CONCEPT DESIGN	DCM	11/25
Rev	Description	By	Date
		By	Date
Survey	LINZ		11/25
Design	DCM		11/25
Drawn	DCM		11/25
Checked	JLD		11/25



Project
**HINUERA SOLAR FARM
SH 27 & 29, HINUERA
FOR
HARMONY ENERGY
NZ #6 LIMITED**

Title
**PROPOSED
ROADING CUT/FILL
PLAN - NORTH**

Project no.	MM-0809
Scale	1:2500 @A3
Cad file	C220 - EW'S.DWG
Drawing no.	C220-2
Rev	B

CONCEPT DESIGN

DATE: 5/15/26

150mm
100
90
80
70
60
50
40
30
20
10
0



KINLEITH BRANCH RAILWAY LINE

ROAD 03

LOT 3
DP 463615

LOT 2
DP 463615

ROAD 02

ROAD 09

ROAD 05

ROAD 05

ROAD 03

ROAD 02

**BULK EARTHWORKS - ROAD 5
(EGL STRIPPED SURFACE VS PGL ROADING)**

TOPSOIL STRIPPED (250mm) = 1,208 m³
EARTHWORKS AREA = 4,831 m²

CUT VOLUME 0 m³
FILL VOLUME 2,492 m³
NET FILL 2,492 m³

NOTE: NO ALLOWANCE FOR SERVICES TRENCHES,
VOLUMES AREA UNFACTORED AND IN SITU

**BULK EARTHWORKS - ROAD 9
(EGL STRIPPED SURFACE VS PGL ROADING)**

TOPSOIL STRIPPED (250mm) = 258 m³
EARTHWORKS AREA = 1,029 m²

CUT VOLUME 0 m³
FILL VOLUME 522 m³
NET FILL 522 m³

NOTE: NO ALLOWANCE FOR SERVICES TRENCHES,
VOLUMES AREA UNFACTORED AND IN SITU

CONCEPT DESIGN

- Notes
1. All works to be in accordance with MPDC or RITS standards.
 2. Co-ordinates in terms of Mount Eden 2000.
 3. Reduced Levels are in terms of NZVD 2016.
 4. Contour interval Major 1.0m Minor 0.2m.
 5. Areas, Boundaries and Measurements are approximate only and subject to final survey.
 6. It is the contractors responsibility to locate all services that may be affected by their operations.
 7. The contractor shall comply with all relevant OSH and Health & Safety requirements.
 8. The contractor shall obtain all necessary approval from utility operators before commencing work under or near their services.
 9. Sediment control shall be installed and operational before earthworks start onsite in accordance with WRC standards.
 10. All earthworks to be undertaken in accordance with the Geotechnical Investigation recommendations of CMW.

Cut/Fill Table			
Number #	Minimum Elevation	Maximum Elevation	Color
1	-1.200	-1.000	Red
2	-1.000	-0.800	Red
3	-0.800	-0.600	Red
4	-0.600	-0.400	Red
5	-0.400	-0.200	Red
6	-0.200	0.000	Red
7	0.000	0.200	Green
8	0.200	0.400	Green
9	0.400	0.600	Green
10	0.600	0.800	Green
11	0.800	1.000	Green
12	1.000	1.200	Green
13	1.200	1.400	Green
14	1.400	1.600	Green
15	1.600	1.800	Green
16	1.800	2.000	Green
17	2.000	2.200	Green
18	2.200	2.400	Green
19	2.400	>2.400	Green

B	CONCEPT DESIGN	JLD	05/26
A	CONCEPT DESIGN	DCM	11/25
Rev	Description	By	Date
	By	Date	
Survey	LINZ	11/25	
Design	DCM	11/25	
Drawn	DCM	11/25	
Checked	JLD	11/25	



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New Zealand

Project
**HINUERA SOLAR FARM
SH 27 & 29, HINUERA
FOR
HARMONY ENERGY
NZ #6 LIMITED**

Title
**PROPOSED
ROADING CUT/FILL
PLAN - NORTHWEST**

Project no.	MM-0809		
Scale	1:2500 @A3		
Cad file	C220 - EW'S.DWG		
Drawing no.	C220-3	Rev	B

150mm ORIGINAL SIZE: A3

120

100

80

60

40

20

0

DATE: 5/15/20



BULK EARTHWORKS - ROAD 2
(EGL STRIPPED SURFACE VS PGL ROADING)

TOPSOIL STRIPPED (250mm) = 2,749 m³
EARTHWORKS AREA = 10,993 m²

CUT VOLUME 0 m³
FILL VOLUME 5,488 m³
NET FILL 5,488 m³

NOTE: NO ALLOWANCE FOR SERVICES TRENCHES,
VOLUMES AREA UNFACTORED AND IN SITU

BULK EARTHWORKS - ROAD 4
(EGL STRIPPED SURFACE VS PGL ROADING)

TOPSOIL STRIPPED (250mm) = 1,243 m³
EARTHWORKS AREA = 4,971 m²

CUT VOLUME 0 m³
FILL VOLUME 2,664 m³
NET FILL 2,664 m³

NOTE: NO ALLOWANCE FOR SERVICES TRENCHES,
VOLUMES AREA UNFACTORED AND IN SITU

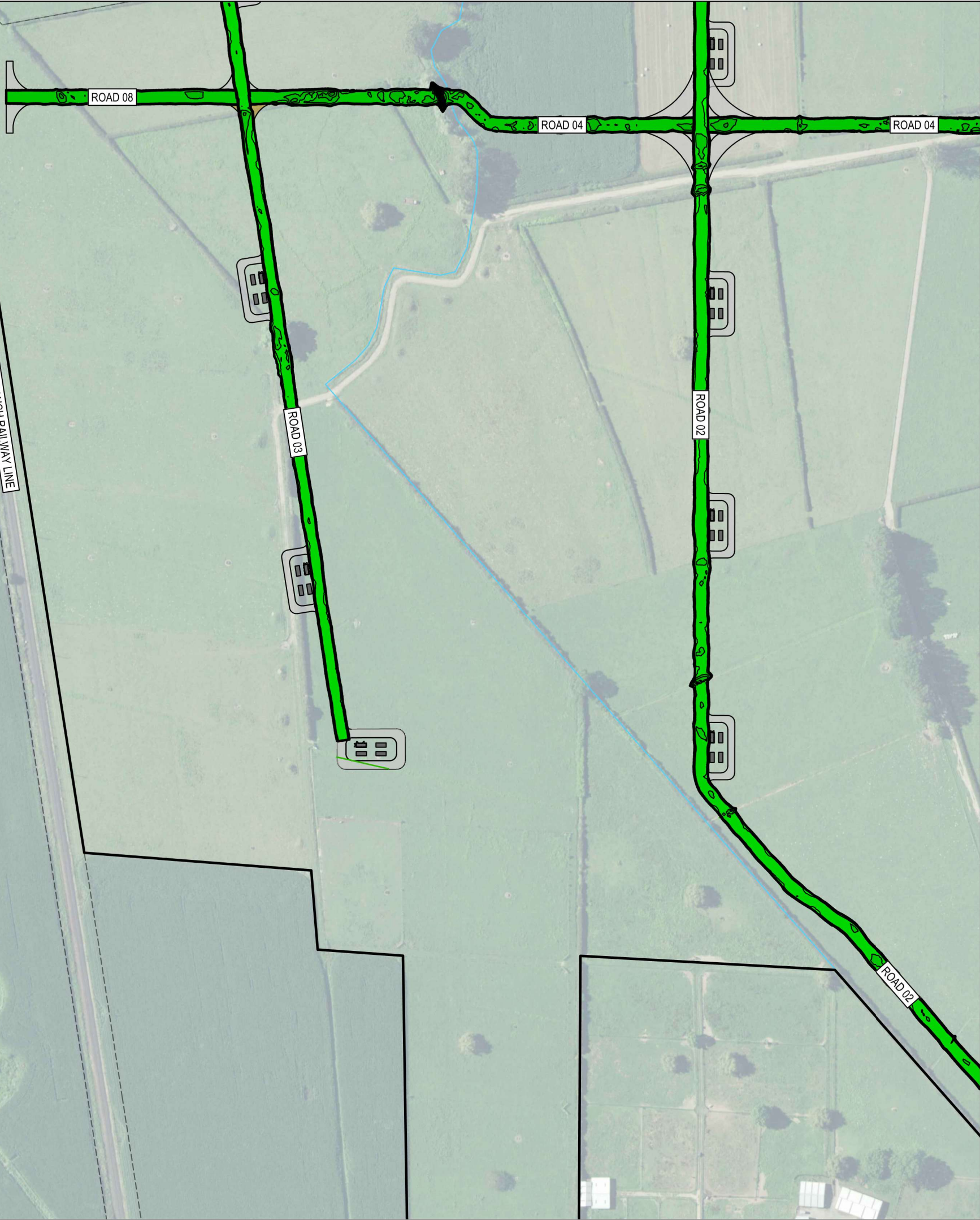
BULK EARTHWORKS - ROAD 8
(EGL STRIPPED SURFACE VS PGL ROADING)

TOPSOIL STRIPPED (250mm) = 290 m³
EARTHWORKS AREA = 1,160 m²

CUT VOLUME 0 m³
FILL VOLUME 582 m³
NET FILL 582 m³

NOTE: NO ALLOWANCE FOR SERVICES TRENCHES,
VOLUMES AREA UNFACTORED AND IN SITU

CONCEPT DESIGN



- Notes
1. All works to be in accordance with MPDC or RITS standards.
 2. Co-ordinates in terms of Mount Eden 2000.
 3. Reduced Levels are in terms of NZVD 2016.
 4. Contour interval Major 1.0m Minor 0.2m.
 5. Areas, Boundaries and Measurements are approximate only and subject to final survey.
 6. It is the contractors responsibility to locate all services that may be affected by their operations.
 7. The contractor shall comply with all relevant OSH and Health & Safety requirements.
 8. The contractor shall obtain all necessary approval from utility operators before commencing work under or near their services.
 9. Sediment control shall be installed and operational before earthworks start onsite in accordance with WRC standards.
 10. All earthworks to be undertaken in accordance with the Geotechnical Investigation recommendations of CMW.

Cut/Fill Table			
Number #	Minimum Elevation	Maximum Elevation	Color
1	-1.200	-1.000	Red
2	-1.000	-0.800	Red
3	-0.800	-0.600	Red
4	-0.600	-0.400	Red
5	-0.400	-0.200	Red
6	-0.200	0.000	Red
7	0.000	0.200	Green
8	0.200	0.400	Green
9	0.400	0.600	Green
10	0.600	0.800	Green
11	0.800	1.000	Green
12	1.000	1.200	Green
13	1.200	1.400	Green
14	1.400	1.600	Green
15	1.600	1.800	Green
16	1.800	2.000	Green
17	2.000	2.200	Green
18	2.200	2.400	Green
19	2.400	>2.400	Green

B	CONCEPT DESIGN	JLD	05/26
A	CONCEPT DESIGN	DCM	11/25
Rev	Description	By	Date
	By	Date	
Survey	LINZ	11/25	
Design	DCM	11/25	
Drawn	DCM	11/25	
Checked	JLD	11/25	

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Project

HINUERA SOLAR FARM
SH 27 & 29, HINUERA
FOR
HARMONY ENERGY
NZ #6 LIMITED

Title

PROPOSED
ROADING CUT/FILL
PLAN - SOUTHWEST

Project no.	MM-0809		
Scale	1:2500 @A3		
Cad file	C220 - EW'S.DWG		
Drawing no.	C220-4	Rev	B

150mm ORIGINAL SIZE: A3

0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

DATE: 5/15/26



BULK EARTHWORKS - ROAD 1
(EGL STRIPPED SURFACE VS PGL ROADING)

TOPSOIL STRIPPED (250mm) = 2,535 m³
EARTHWORKS AREA = 10,139 m²

CUT VOLUME 0 m³
FILL VOLUME 5,133 m³
NET FILL 5,133 m³

NOTE: NO ALLOWANCE FOR SERVICES TRENCHES,
VOLUMES AREA UNFACTORED AND IN SITU

CONCEPT DESIGN

- Notes
1. All works to be in accordance with MPDC or RITS standards.
 2. Co-ordinates in terms of Mount Eden 2000.
 3. Reduced Levels are in terms of NZVD 2016.
 4. Contour interval Major 1.0m Minor 0.2m.
 5. Areas, Boundaries and Measurements are approximate only and subject to final survey.
 6. It is the contractors responsibility to locate all services that may be affected by their operations.
 7. The contractor shall comply with all relevant OSH and Health & Safety requirements.
 8. The contractor shall obtain all necessary approval from utility operators before commencing work under or near their services.
 9. Sediment control shall be installed and operational before earthworks start onsite in accordance with WRC standards.
 10. All earthworks to be undertaken in accordance with the Geotechnical Investigation recommendations of CMW.

Cut/Fill Table			
Number #	Minimum Elevation	Maximum Elevation	Color
1	-1.200	-1.000	Red
2	-1.000	-0.800	Red
3	-0.800	-0.600	Red
4	-0.600	-0.400	Red
5	-0.400	-0.200	Red
6	-0.200	0.000	Red
7	0.000	0.200	Green
8	0.200	0.400	Green
9	0.400	0.600	Green
10	0.600	0.800	Green
11	0.800	1.000	Green
12	1.000	1.200	Green
13	1.200	1.400	Green
14	1.400	1.600	Green
15	1.600	1.800	Green
16	1.800	2.000	Green
17	2.000	2.200	Green
18	2.200	2.400	Green
19	2.400	>2.400	Green

C	CONCEPT DESIGN	JLD	05/26
B	CONCEPT DESIGN	JLD	05/26
A	CONCEPT DESIGN	DCM	11/25
Rev	Description	By	Date
		By	Date
Survey	LINZ		11/25
Design	DCM		11/25
Drawn	DCM		11/25
Checked	JLD		11/25

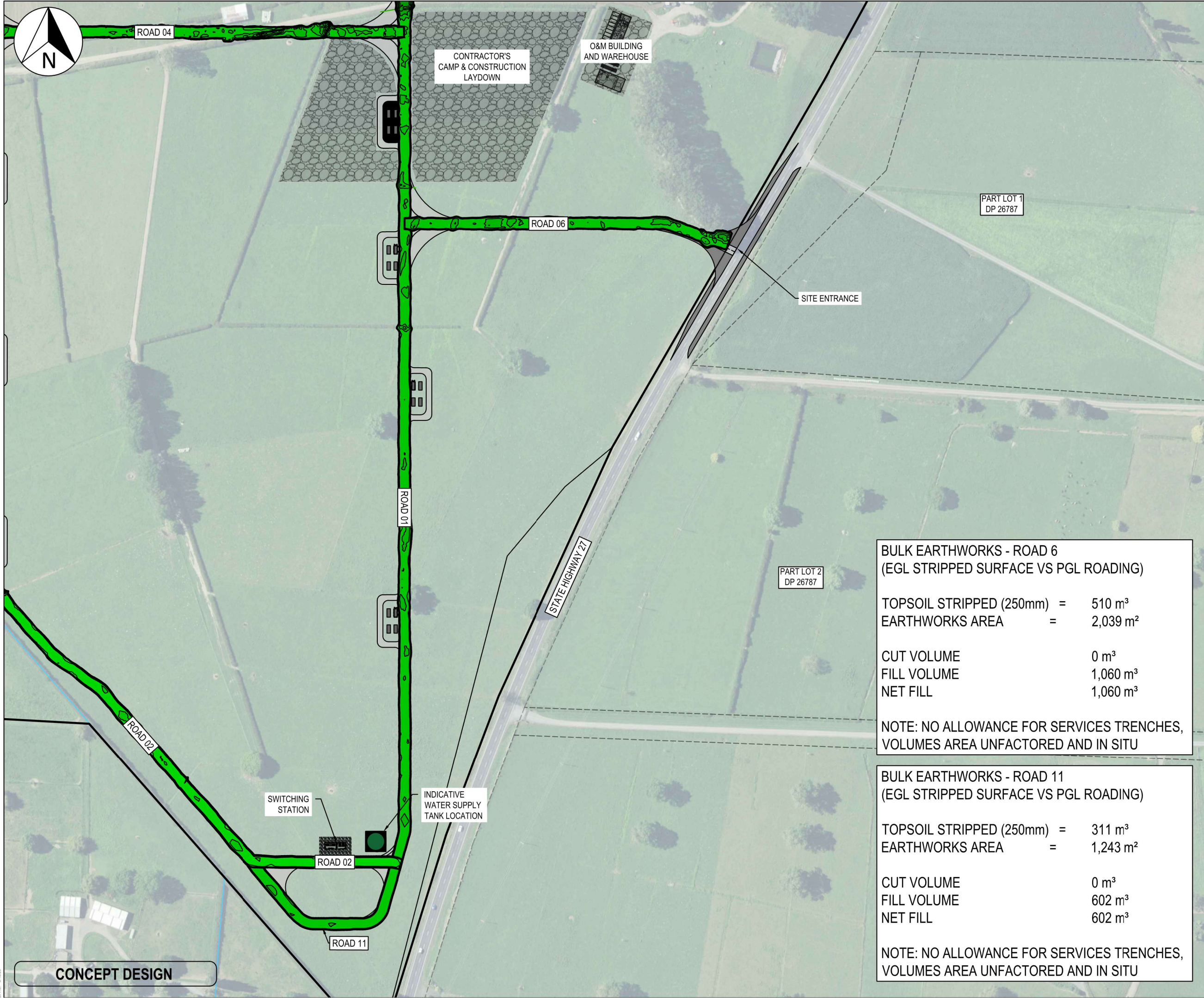
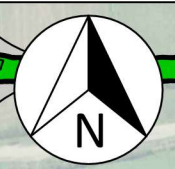


Project
**HINUERA SOLAR FARM
SH 27 & 29, HINUERA
FOR
HARMONY ENERGY
NZ #6 LIMITED**

Title
**PROPOSED
ROADING CUT/FILL
PLAN - NORTHEAST**

Project no.	MM-0809		
Scale	1:2500 @A3		
Cad file	C220 - EW'S.DWG		
Drawing no.	C220-5	Rev	C

ORIGINAL SIZE: A3
150mm
100
90
80
70
60
50
40
30
20
10
0



BULK EARTHWORKS - ROAD 6
(EGL STRIPPED SURFACE VS PGL ROADING)

TOPSOIL STRIPPED (250mm) = 510 m³
EARTHWORKS AREA = 2,039 m²

CUT VOLUME 0 m³
FILL VOLUME 1,060 m³
NET FILL 1,060 m³

NOTE: NO ALLOWANCE FOR SERVICES TRENCHES,
VOLUMES AREA UNFACTORED AND IN SITU

BULK EARTHWORKS - ROAD 11
(EGL STRIPPED SURFACE VS PGL ROADING)

TOPSOIL STRIPPED (250mm) = 311 m³
EARTHWORKS AREA = 1,243 m²

CUT VOLUME 0 m³
FILL VOLUME 602 m³
NET FILL 602 m³

NOTE: NO ALLOWANCE FOR SERVICES TRENCHES,
VOLUMES AREA UNFACTORED AND IN SITU

- Notes
1. All works to be in accordance with MPDC or RITS standards.
 2. Co-ordinates in terms of Mount Eden 2000.
 3. Reduced Levels are in terms of NZVD 2016.
 4. Contour interval Major 1.0m Minor 0.2m.
 5. Areas, Boundaries and Measurements are approximate only and subject to final survey.
 6. It is the contractors responsibility to locate all services that may be affected by their operations.
 7. The contractor shall comply with all relevant OSH and Health & Safety requirements.
 8. The contractor shall obtain all necessary approval from utility operators before commencing work under or near their services.
 9. Sediment control shall be installed and operational before earthworks start onsite in accordance with WRC standards.
 10. All earthworks to be undertaken in accordance with the Geotechnical Investigation recommendations of CMW.

Cut/Fill Table			
Number #	Minimum Elevation	Maximum Elevation	Color
1	-1.200	-1.000	Red
2	-1.000	-0.800	Red
3	-0.800	-0.600	Red
4	-0.600	-0.400	Red
5	-0.400	-0.200	Red
6	-0.200	0.000	Red
7	0.000	0.200	Green
8	0.200	0.400	Green
9	0.400	0.600	Green
10	0.600	0.800	Green
11	0.800	1.000	Green
12	1.000	1.200	Green
13	1.200	1.400	Green
14	1.400	1.600	Green
15	1.600	1.800	Green
16	1.800	2.000	Green
17	2.000	2.200	Green
18	2.200	2.400	Green
19	2.400	>2.400	Green

B	CONCEPT DESIGN	JLD	05/26
A	CONCEPT DESIGN	DCM	11/25
Rev	Description	By	Date
		By	Date
Survey	LINZ		11/25
Design	DCM		11/25
Drawn	DCM		11/25
Checked	JLD		11/25



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Project
HINUERA SOLAR FARM
SH 27 & 29, HINUERA
FOR
HARMONY ENERGY
NZ #6 LIMITED

Title
PROPOSED
ROADING CUT/FILL
PLAN - SOUTHEAST

Project no.	MM-0809		
Scale	1:2500 @A3		
Cad file	C220 - EW'S.DWG		
Drawing no.	C220-6	Rev	B

150mm ORIGINAL SIZE: A3



LOT 1
DPS 83767

INDICATIVE FILL AREA
(EXTENTS TO BE CONFIRMED
AT DETAILED DESIGN STAGE)

**BULK EARTHWORKS - INDICATIVE FILL AREA
(EGL STRIP SURFACE VS PGL FILL AREA)**

TOPSOIL STRIPPED (250mm) = 574 m³
EARTHWORKS AREA = 2,296 m²

CUT VOLUME 0 m³
FILL VOLUME 746 m³
NET FILL 746 m³

NOTE: VOLUME UNFACTORED AND IN SITU

CONSTRUCTION LAYDOWN

SITE ENTRANCE

STATE HIGHWAY 29

CONTRACTOR'S
CAMP & CONSTRUCTION
LAYDOWN

O&M BUILDING
AND WAREHOUSE

ROAD 06

ROAD 03

ROAD 10

KINLEITH BRANCH RAILWAY LINE

SWITCHING
STATION

INDICATIVE
WATER SUPPLY
TANK LOCATION

**BULK EARTHWORKS - LAYDOWNS & COMPOUNDS
(EGL STRIP SURFACE VS PGL L & C HARDSTAND)**

TOPSOIL STRIPPED (250mm) = 8,104 m³
EARTHWORKS AREA = 32,417 m²

CUT VOLUME 468 m³
FILL VOLUME 14,792 m³
NET FILL 14,324 m³

NOTE: NO ALLOWANCE FOR SERVICES TRENCHES,
VOLUMES AREA UNFACTORED AND IN SITU

**BULK EARTHWORKS - SWITCHING STATION
(EGL STRIP SURFACE VS PGL SWITCHING STATION)**

TOPSOIL STRIPPED (250mm) = 71 m³
EARTHWORKS AREA = 282 m²

CUT VOLUME 0 m³

- Notes
1. All works to be in accordance with MPDC or RITS standards.
 2. Co-ordinates in terms of Mount Eden 2000.
 3. Reduced Levels are in terms of NZVD 2016.
 4. Contour interval Major 1.0m Minor 0.2m.
 5. Areas, Boundaries and Measurements are approximate only and subject to final survey.
 6. It is the contractors responsibility to locate all services that may be affected by their operations.
 7. The contractor shall comply with all relevant OSH and Health & Safety requirements.
 8. The contractor shall obtain all necessary approval from utility operators before commencing work under or near their services.
 9. Sediment control shall be installed and operational before earthworks start onsite in accordance with WRC standards.
 10. All earthworks to be undertaken in accordance with the Geotechnical Investigation recommendations of CMW.

Cut/Fill Table			
Number	Minimum Elevation	Maximum Elevation	Color
1	-1.200	-1.000	Red
2	-1.000	-0.800	Red
3	-0.800	-0.600	Red
4	-0.600	-0.400	Red
5	-0.400	-0.200	Red
6	-0.200	0.000	Red
7	0.000	0.200	Green
8	0.200	0.400	Green
9	0.400	0.600	Green
10	0.600	0.800	Green
11	0.800	1.000	Green
12	1.000	1.200	Green
13	1.200	1.400	Green
14	1.400	1.600	Green
15	1.600	1.800	Green
16	1.800	2.000	Green
17	2.000	2.200	Green
18	2.200	2.400	Green
19	2.400	2.600	Green

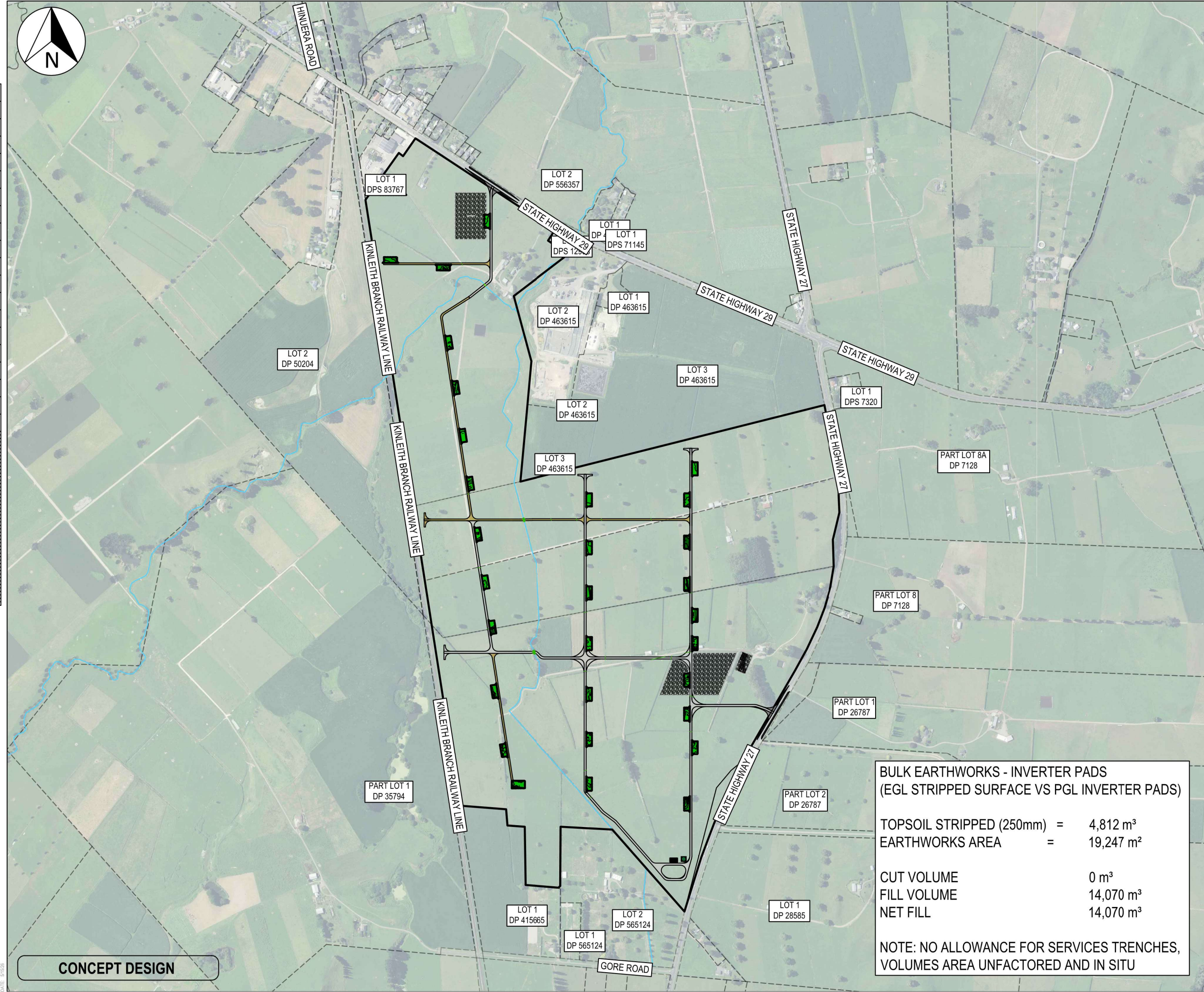
B	CONCEPT DESIGN	JLD	05/26
A	CONCEPT DESIGN	DCM	11/25
Rev	Description	By	Date
	By	Date	
Survey	LINZ	11/25	
Design	DCM	11/25	
Drawn	DCM	11/25	
Checked	JLD	11/25	



Project
**HINUERA SOLAR FARM
SH 27 & 29, HINUERA
FOR
HARMONY ENERGY
NZ #6 LIMITED**

Title
**PROPOSED LAYDOWNS,
COMPOUNDS & SWITCH**

150mm ORIGINAL SIZE: A3



CONCEPT DESIGN

BULK EARTHWORKS - INVERTER PADS
(EGL STRIPPED SURFACE VS PGL INVERTER PADS)

TOPSOIL STRIPPED (250mm) = 4,812 m³
EARTHWORKS AREA = 19,247 m²

CUT VOLUME 0 m³
FILL VOLUME 14,070 m³
NET FILL 14,070 m³

NOTE: NO ALLOWANCE FOR SERVICES TRENCHES,
VOLUMES AREA UNFACTORED AND IN SITU

- Notes
1. All works to be in accordance with MPDC or RITS standards.
 2. Co-ordinates in terms of Mount Eden 2000.
 3. Reduced Levels are in terms of NZVD 1992.
 4. Contour interval Major 1.0m Minor 0.2m.
 5. Areas, Boundaries and Measurements are approximate only and subject to final survey.
 6. It is the contractors responsibility to locate all services that may be affected by their operations.
 7. The contractor shall comply with all relevant OSH and Health & Safety requirements.
 8. The contractor shall obtain all necessary approval from utility operators before commencing work under or near their services.
 9. Sediment control shall be installed and operational before earthworks start onsite in accordance with WRC standards.
 10. All earthworks to be undertaken in accordance with the Geotechnical Investigation recommendations of CMW.

Cut/Fill Table			
Number	Minimum Elevation	Maximum Elevation	Color
1	-1.200	-1.000	Red
2	-1.000	-0.800	Red
3	-0.800	-0.600	Red
4	-0.600	-0.400	Red
5	-0.400	-0.200	Red
6	-0.200	0.000	Red
7	0.000	0.200	Green
8	0.200	0.400	Green
9	0.400	0.600	Green
10	0.600	0.800	Green
11	0.800	1.000	Green
12	1.000	1.200	Green
13	1.200	1.400	Green
14	1.400	1.600	Green
15	1.600	1.800	Green
16	1.800	2.000	Green
17	2.000	2.200	Green
18	2.200	2.400	Green
19	2.400	>2.400	Green

B	CONCEPT DESIGN	JLD	05/26
A	CONCEPT DESIGN	DCM	11/25
Rev	Description	By	Date
		By	Date
Survey	LINZ		11/25
Design	DCM		11/25
Drawn	DCM		11/25
Checked	JLD		11/25

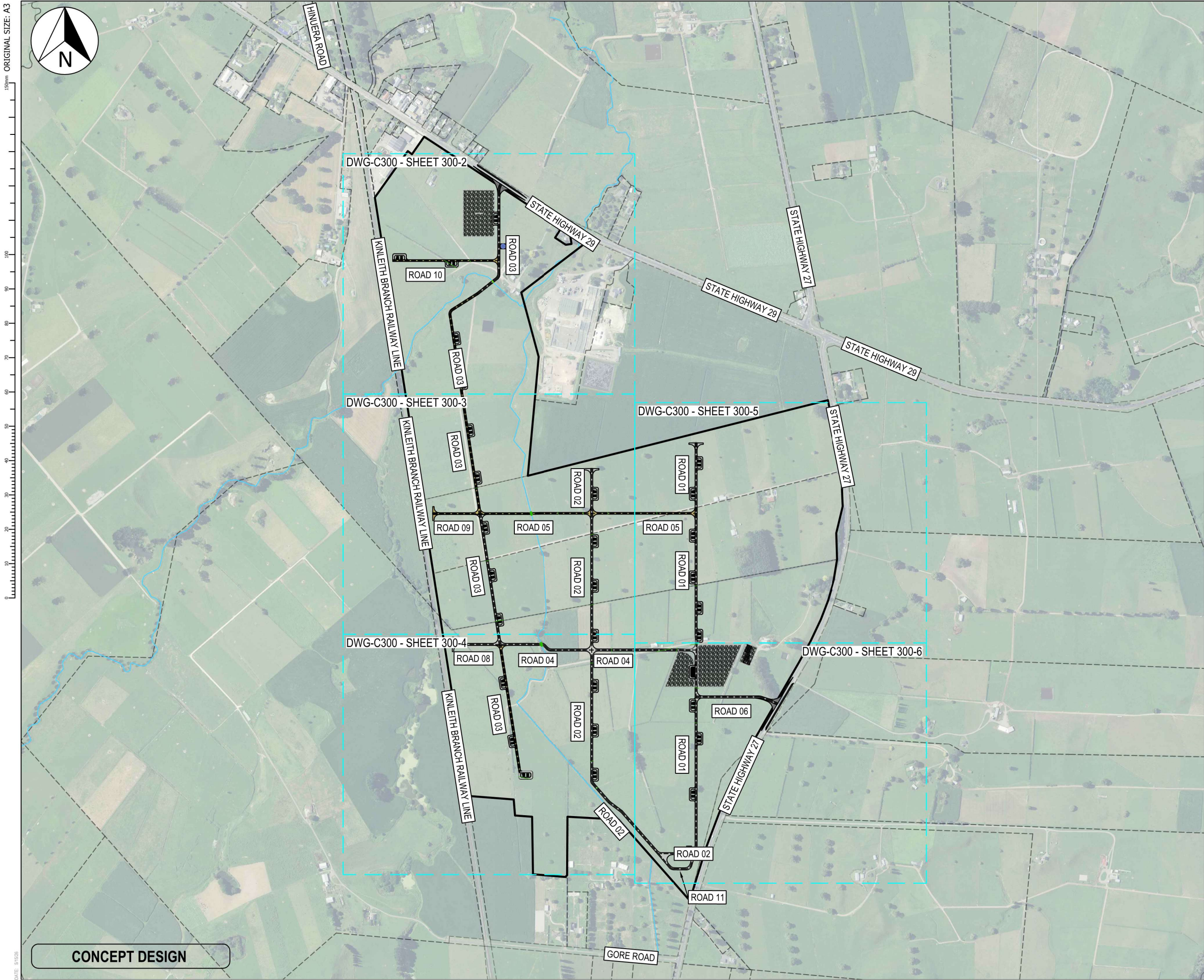


Project
HINUERA SOLAR FARM
SH 27 & 29, HINUERA
FOR
HARMONY ENERGY
NZ #6 LIMITED

Title
PROPOSED
INVERTER PADS CUT/FILL
PLAN

Project no.	MM-0809
Scale	1:10000 @A3
Cad file	C220 - EW'S.DWG
Drawing no.	C220-8
Rev	B

150mm ORIGINAL SIZE: A3



CONCEPT DESIGN

- Notes
1. All works to be in accordance with MPDC or RITS standards.
 2. Co-ordinates in terms of Mount Eden 2000.
 3. Reduced Levels are in terms of NZVD 2016.
 4. It is the contractors responsibility to locate all services that may be affected by their operations.
 5. The contractor shall comply with all relevant OSH and Health & Safety requirements.
 6. The contractor shall obtain all necessary approval from utility operators before commencing work under or near their services.
 7. Final pavement design subject to CBR/Beam tests on subgrade material.
 8. Approved hardfill is to be used in backfilling of all road crossings and vehicle crossings to Local Council standards.
 9. Set out schedule with co-ordinates of chainage points along road centreline to be supplied to the contractor prior to construction.
 10. Refer to C320-1 drawing for typical section details.

Legend

---	EX BDY
---	PROP BDY
---	EX WATERCOURSE
---	PROP 6m WIDE ROAD
---	PROP 5m WIDE ROAD
---	PROP ENTRANCEWAY
---	PR HARDSTAND AREA

C	CONCEPT DESIGN	JLD	05/26
B	CONCEPT DESIGN	JLD	05/26
A	CONCEPT DESIGN	DCM	11/25
Rev	Description	By	Date
	Survey	LINZ	11/25
	Design	DCM	11/25
	Drawn	DCM	11/25
	Checked	JLD	11/25

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Project
**HINUERA SOLAR FARM
SH 27 & 29, HINUERA
FOR
HARMONY ENERGY
NZ #6 LIMITED**

Title
**PROPOSED
ROADING LAYOUT
PLAN**

Project no.	MM-0809		
Scale	1:10000 @ A3		
Cad file	C300 - ROADING.DWG		
Drawing no.	C300-1	Rev	C

150mm
100
80
70
60
50
40
30
20
10
0



LOT 1
DPS 83767

LOT 2
DP 556357

LOT 1
DP 420625

LOT 1
DPS 12998

LOT 2
DP 463615

LOT 2
DP 50204

KINLEITH BRANCH RAILWAY LINE

SITE ENTRANCE

CONSTRUCTION LAYDOWN

STATE HIGHWAY 29

ROAD 03

ROAD 10

PROPOSED LOOP TO BE 5m
WIDE TO ACCOMMODATE
8.5m FIRE TRUCK

EXISTING SW
CULVERT TO BE
RETAINED/UPGRADED

INDICATIVE
WATER SUPPLY
TANK LOCATION

PROPOSED 6m
WIDE FARM ROAD

PROPOSED 5m
WIDE FARM ROAD

PROPOSED INVERTER
TRANSFORMER STATION

ROAD 03

CONCEPT DESIGN

- Notes
1. All works to be in accordance with MPDC or RITS standards.
 2. Co-ordinates in terms of Mount Eden 2000.
 3. Reduced Levels are in terms of NZVD 2016.
 4. It is the contractors responsibility to locate all services that may be affected by their operations.
 5. The contractor shall comply with all relevant OSH and Health & Safety requirements.
 6. The contractor shall obtain all necessary approval from utility operators before commencing work under or near their services.
 7. Final pavement design subject to CBR/Beam tests on subgrade material.
 8. Approved hardfill is to be used in backfilling of all road crossings and vehicle crossings to Local Council standards.
 9. Set out schedule with co-ordinates of chainage points along road centreline to be supplied to the contractor prior to construction.
 10. Refer to C320-1 drawing for typical section details.

Legend

---	EX BDY
---	PROP BDY
---	EX WATERCOURSE
---	PROP 6m WIDE ROAD
---	PROP 5m WIDE ROAD
---	PROP ENTRANCEWAY
---	PR HARDSTAND AREA

C	CONCEPT DESIGN	JLD	05/26
B	CONCEPT DESIGN	JLD	05/26
A	CONCEPT DESIGN	DCM	11/25
Rev	Description	By	Date
		By	Date
Survey	LINZ		11/25
Design	DCM		11/25
Drawn	DCM		11/25
Checked	JLD		11/25

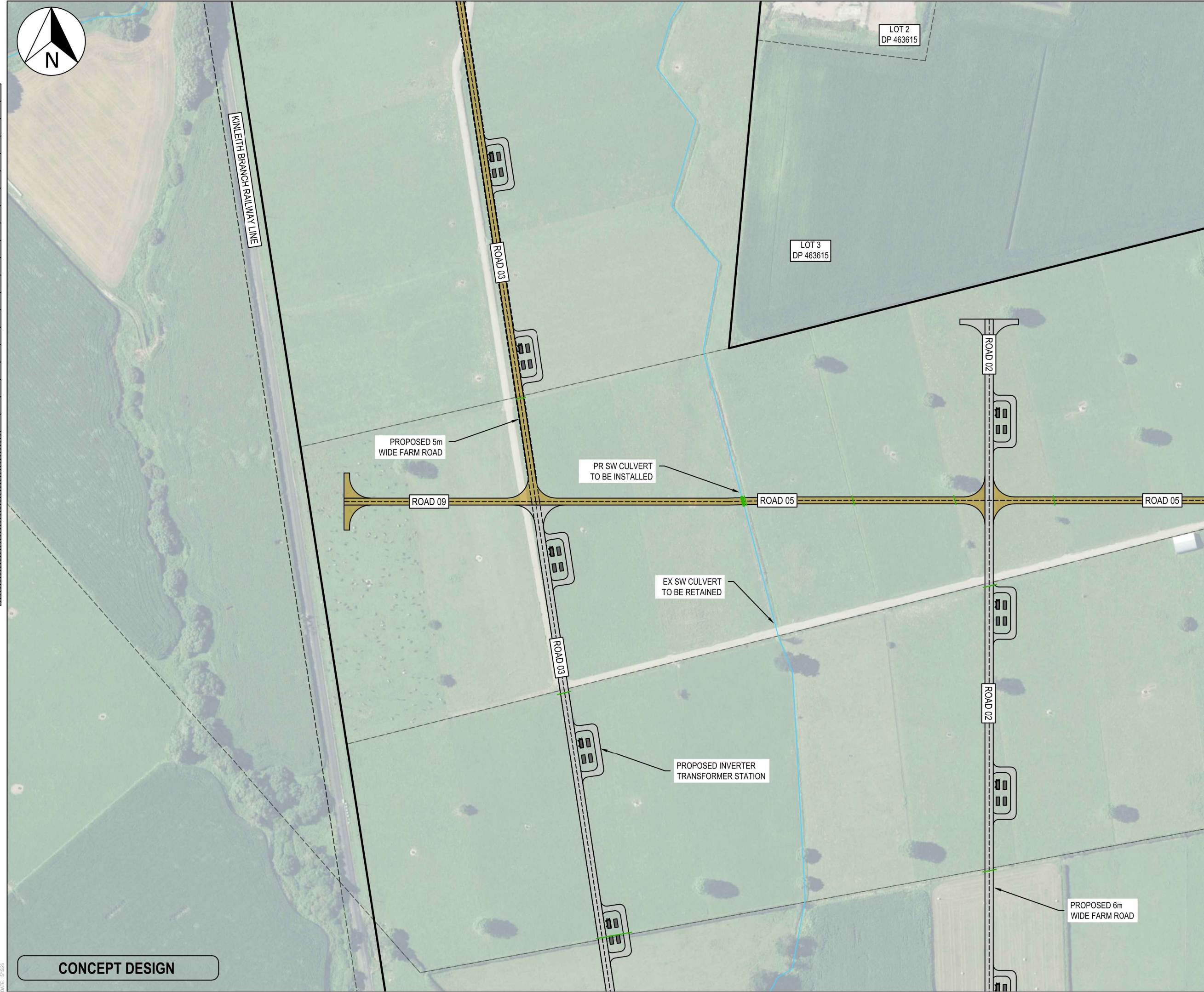
M
M A V E N
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www.maven.co.nz
8 Tainui Street, Matamata
New Zealand

Project
**HINUERA SOLAR FARM
SH 27 & 29, HINUERA
FOR
HARMONY ENERGY
NZ #6 LIMITED**

Title
**PROPOSED
ROADING LAYOUT
PLAN - NORTH**

Project no.	MM-0809		
Scale	1:2500 @ A3		
Cad file	C300 - ROADING.DWG		
Drawing no.	C300-2	Rev	C

150mm ORIGINAL SIZE: A3



- Notes
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 9. Set out schedule with co-ordinates of chainage points along road centreline to be supplied to the contractor prior to construction.
 10. Refer to C320-1 drawing for typical section details.

Legend

	EX BDY
	PROP BDY
	EX WATERCOURSE
	PROP 6m WIDE ROAD
	PROP 5m WIDE ROAD
	PROP ENTRANCEWAY
	PR HARDSTAND AREA

C	CONCEPT DESIGN	JLD	05/26
B	CONCEPT DESIGN	JLD	05/26
A	CONCEPT DESIGN	DCM	11/25
Rev	Description	By	Date
		By	Date
Survey	LINZ		11/25
Design	DCM		11/25
Drawn	DCM		11/25
Checked	JLD		11/25



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SH 27 & 29, HINUERA
FOR
HARMONY ENERGY
NZ #6 LIMITED**

Title
**PROPOSED
ROADING LAYOUT
PLAN - NORTHWEST**

Project no.	MM-0809		
Scale	1:2500 @ A3		
Cad file	C300 - ROADING.DWG		
Drawing no.	C300-3	Rev	C

CONCEPT DESIGN

DATE: 5/15/26

150mm
100
80
60
40
20
0



PART LOT 1
DP 35794

KINLEITH BRANCH RAILWAY LINE

ROAD 08

PROPOSED SW CULVERT TO
BE INSTALLED

ROAD 04

PROPOSED SW
CULVERT TO BE
INSTALLED

ROAD 04

PROPOSED 6m
WIDE FARM ROAD

EXISTING SW CULVERT
TO BE RETAINED

PROPOSED 5m
WIDE FARM ROAD

ROAD 03

ROAD 02

PROPOSED INVERTER
TRANSFORMER STATION

PROPOSED LOOP TO BE 5m
WIDE TO ACCOMMODATE
8.5m FIRE TRUCK

ROAD 02

Notes

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Legend

---	EX BDY
---	PROP BDY
---	EX WATERCOURSE
---	PROP 6m WIDE ROAD
---	PROP 5m WIDE ROAD
---	PROP ENTRANCEWAY
---	PR HARDSTAND AREA

C	CONCEPT DESIGN	JLD	05/26
B	CONCEPT DESIGN	JLD	05/26
A	CONCEPT DESIGN	DCM	11/25
Rev	Description	By	Date
	By	Date	
Survey	LINZ	11/25	
Design	DCM	11/25	
Drawn	DCM	11/25	
Checked	JLD	11/25	



Project
**HINUERA SOLAR FARM
SH 27 & 29, HINUERA
FOR
HARMONY ENERGY
NZ #6 LIMITED**

Title
**PROPOSED
ROADING LAYOUT
PLAN - SOUTHWEST**

Project no.	MM-0809		
Scale	1:2500 @ A3		
Cad file	C300 - ROADING.DWG		
Drawing no.	C300-4	Rev	C

CONCEPT DESIGN

DATE: 5/15/26

150mm
120
100
80
70
60
50
40
30
20
10
0
DATE: 5/15/26



CONCEPT DESIGN

- Notes
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 10. Refer to C320-1 drawing for typical section details.

Legend

	EX BDY
	PROP BDY
	EX WATERCOURSE
	PROP 6m WIDE ROAD
	PROP 5m WIDE ROAD
	PROP ENTRANCEWAY
	PR HARDSTAND AREA

C	CONCEPT DESIGN	JLD	05/26
B	CONCEPT DESIGN	JLD	05/26
A	CONCEPT DESIGN	DCM	11/25
Rev	Description	By	Date
	By	Date	
Survey	LINZ	11/25	
Design	DCM	11/25	
Drawn	DCM	11/25	
Checked	JLD	11/25	



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Project

**HINUERA SOLAR FARM
SH 27 & 29, HINUERA
FOR
HARMONY ENERGY
NZ #6 LIMITED**

Title

**PROPOSED
ROADING LAYOUT
PLAN - NORTHEAST**

Project no.	MM-0809		
Scale	1:2500 @ A3		
Cad file	C300 - ROADING.DWG		
Drawing no.	C300-5	Rev	C

ORIGINAL SIZE: A3
150mm
100
90
80
70
60
50
40
30
20
10
0

DATE: 5/15/26



- Notes
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Legend

	EX BDY
	PROP BDY
	EX WATERCOURSE
	PROP 6m WIDE ROAD
	PROP 5m WIDE ROAD
	PROP ENTRANCEWAY
	PR HARDSTAND AREA

C	CONCEPT DESIGN	JLD	05/26
B	CONCEPT DESIGN	JLD	05/26
A	CONCEPT DESIGN	DCM	11/25
Rev	Description	By	Date
	Survey	LINZ	11/25
	Design	DCM	11/25
	Drawn	DCM	11/25
	Checked	JLD	11/25

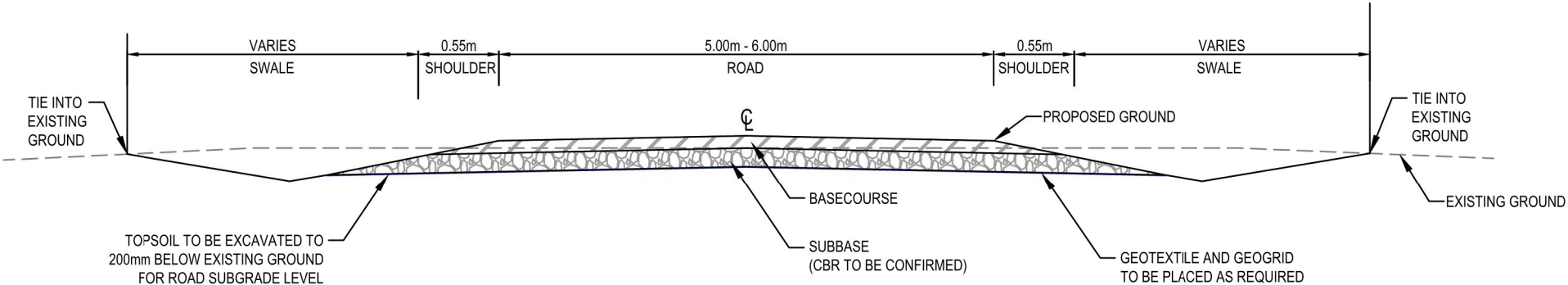


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Project
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SH 27 & 29, HINUERA
FOR
HARMONY ENERGY
NZ #6 LIMITED**

Title
**PROPOSED
ROADING LAYOUT
PLAN - SOUTHEAST**

Project no.	MM-0809		
Scale	1:2500 @ A3		
Cad file	C300 - ROADING.DWG		
Drawing no.	C300-6	Rev	C



5m TO 6m WIDE PERMANENT ROAD CROSS SECTION
TYPICAL CONSTRUCTION METHODOLOGY
SCALE: 1:50

- Notes
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Legend

--- EX GROUND

— PROP GROUND

C	CONCEPT DESIGN	JLD	05/26
B	CONCEPT DESIGN	JLD	05/26
A	CONCEPT DESIGN	DCM	11/25
Rev	Description	By	Date
	By	Date	
Survey	LINZ	11/25	
Design	JLD	11/25	
Drawn	DCM	11/25	
Checked	JLD	11/25	



Project

HINUERA SOLAR FARM

SH 27 & 29, HINUERA

FOR

HARMONY ENERGY

NZ #6 LIMITED

Title

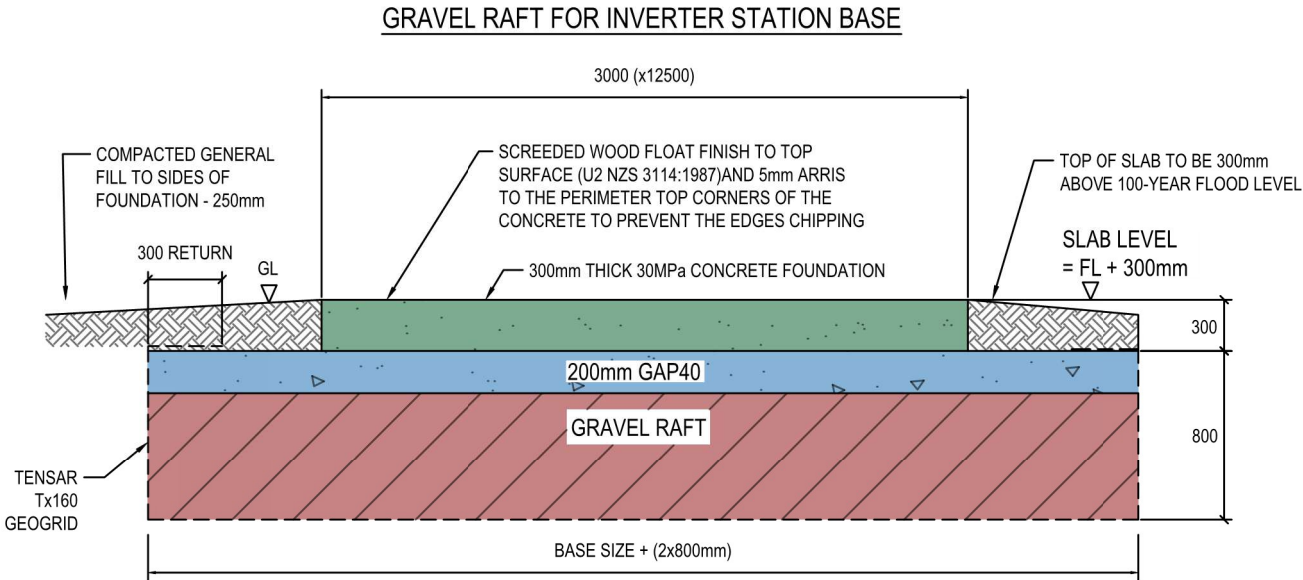
PROPOSED ROADING

TYPICAL SECTION

PLAN

Project no.	MM-0809		
Scale	1:50 @ A3		
Cad file	C300 - ROADING.DWG		
Drawing no.	C320-1	Rev	C

CONCEPT DESIGN



GRAVEL RAFT - Material to be selected excavated sandy material from site, or if not available, other suitable granular material (GAP40 or GAP65) compact top achieve CBR15 (Clegg value = 15), Base coarse layer (200mm GAP40) compacted to achieve CBR 30 (Clegg value 20), TENSAR TX160 to wrap around base & sides of excavation to contain gravel raft. Subgrade for Gravel raft to be minimum CBR 5.

Geotechnical Engineer to confirm the depth of the gravel raft on a case by case basis subject to results from onsite testing.

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C	CONCEPT DESIGN	JLD	05/26
B	CONCEPT DESIGN	JLD	05/26
A	CONCEPT DESIGN	DCM	11/25
Rev	Description	By	Date
	By	Date	
Survey	LINZ	11/25	
Design	JLD	11/25	
Drawn	DCM	11/25	
Checked	JLD	11/25	



Project

HINUERA SOLAR FARM

SH 27 & 29, HINUERA

FOR

HARMONY ENERGY

NZ #6 LIMITED

Title

PROPOSED INVERTER

TYPICAL SECTION

PLAN

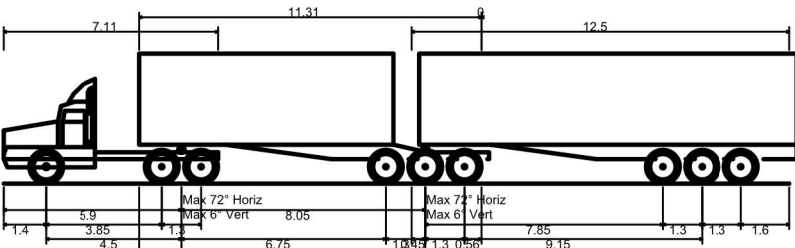
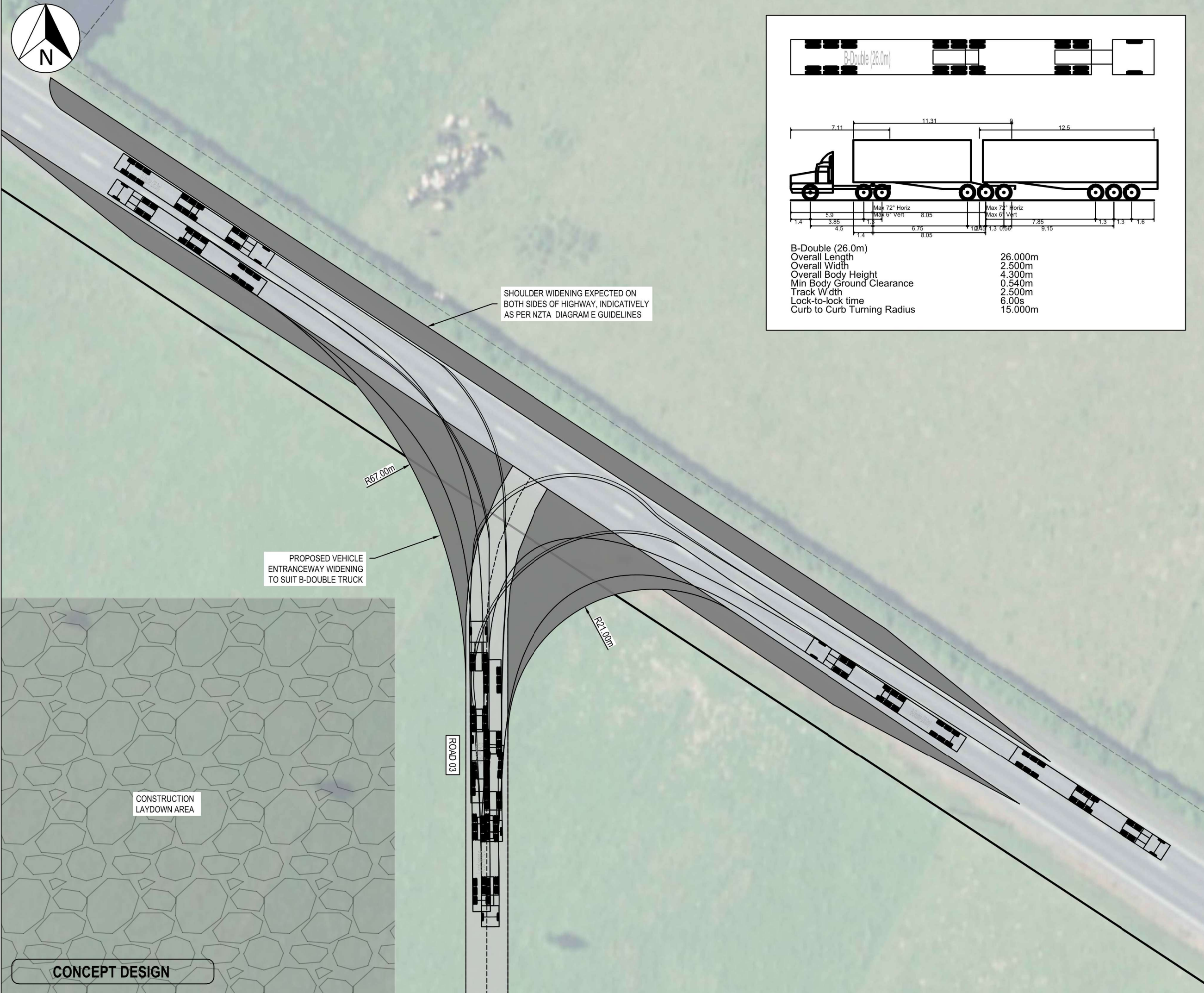
Project no.	MM-0809		
Scale	NTS @ A3		
Cad file	C300 - ROADING.DWG		
Drawing no.	C320-2	Rev	C

CONCEPT DESIGN

150mm ORIGINAL SIZE: A3

0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

DATE: 5/15/26



B-Double (26.0m)	
Overall Length	26.000m
Overall Width	2.500m
Overall Body Height	4.300m
Min Body Ground Clearance	0.540m
Track Width	2.500m
Lock-to-lock time	6.00s
Curb to Curb Turning Radius	15.000m

- Notes
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Legend

---	EX BDY
---	PROP BDY
---	PROP 6m WIDE ROAD
---	PROP 5m WIDE ROAD
---	PROP ENTRANCEWAY
---	PR HARDSTAND AREA

C	CONCEPT DESIGN	JLD	05/26
B	CONCEPT DESIGN	JLD	05/26
A	CONCEPT DESIGN	DCM	11/25
Rev	Description	By	Date
	By	Date	
Survey	LINZ	11/25	
Design	DCM	11/25	
Drawn	DCM	11/25	
Checked	JLD	11/25	

M **MAVEN**

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Project
**HINUERA SOLAR FARM
SH 27 & 29, HINUERA
FOR
HARMONY ENERGY
NZ #6 LIMITED**

Title
**PROPOSED
SH 29 ENTRANCEWAY
TRACKING PLAN**

Project no.	MM-0809		
Scale	1:500 @ A3		
Cad file	C300 - ROADING.DWG		
Drawing no.	C330-1	Rev	C

150mm ORIGINAL SIZE: A3



PROPOSED VEHICLE
ENTRANCEWAY WIDENING
TO SUIT B-DOUBLE TRUCK

SHOULDER WIDENING EXPECTED ON
BOTH SIDES OF HIGHWAY, INDICATIVELY
AS PER NZTA DIAGRAM E GUIDELINES

- Notes
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Legend

---	EX BDY
---	PROP BDY
---	PROP 6m WIDE ROAD
---	PROP 5m WIDE ROAD
---	PROP ENTRANCEWAY
---	PR HARDSTAND AREA

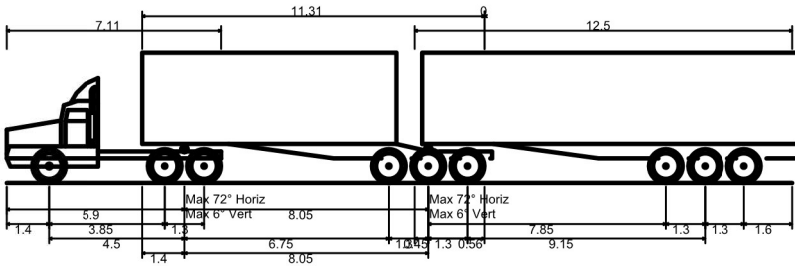
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B	CONCEPT DESIGN	JLD	05/26
A	CONCEPT DESIGN	DCM	11/25
Rev	Description	By	Date
	By	Date	
Survey	LINZ	11/25	
Design	DCM	11/25	
Drawn	DCM	11/25	
Checked	JLD	11/25	



Project
**HINUERA SOLAR FARM
SH 27 & 29, HINUERA
FOR
HARMONY ENERGY
NZ #6 LIMITED**

Title
**PROPOSED SH 27
ENTRANCEWAY
TRACKING PLAN**

Project no.	MM-0809		
Scale	1:500 @ A3		
Cad file	C300 - ROADING.DWG		
Drawing no.	C330-2	Rev	C

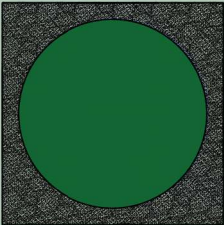
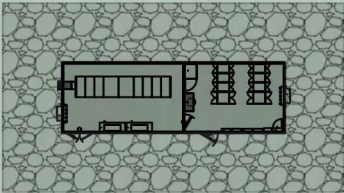
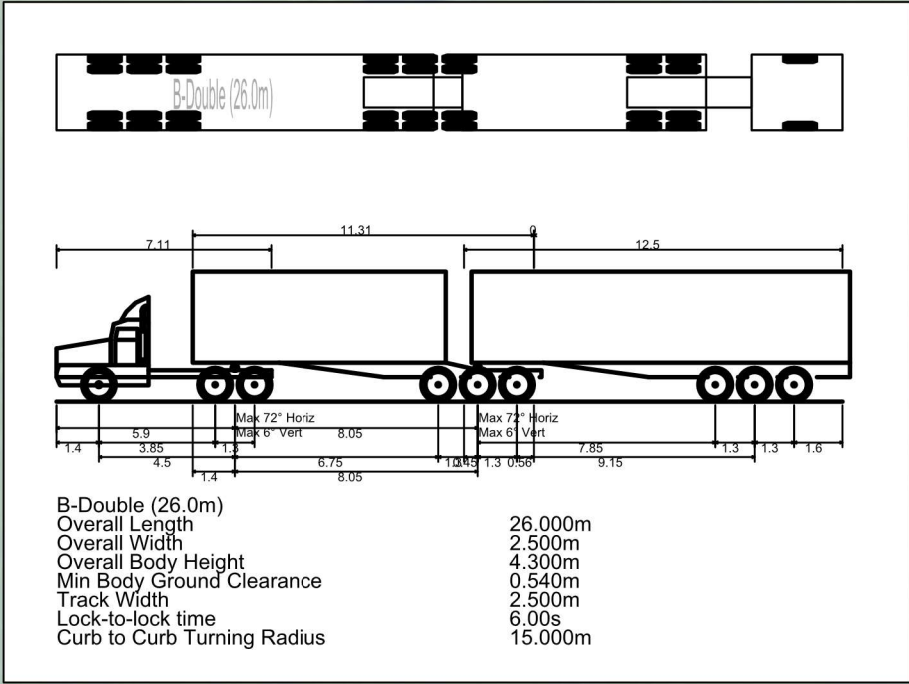


B-Double (26.0m)
Overall Length 26.000m
Overall Width 2.500m
Overall Body Height 4.300m
Min Body Ground Clearance 0.540m
Track Width 2.500m
Lock-to-lock time 6.00s
Curb to Curb Turning Radius 15.000m

CONCEPT DESIGN

DATE: 5/15/26

150mm ORIGINAL SIZE: A3



PROPOSED WIDENING TO
SUIT B-DOUBLE TRUCK

PROPOSED WIDENING TO
SUIT B-DOUBLE TRUCK

- Notes
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Legend

---	EX BDY
---	PROP BDY
---	PROP 6m WIDE ROAD
---	PROP 5m WIDE ROAD
---	PROP ENTRANCEWAY
---	PR HARDSTAND AREA

C	CONCEPT DESIGN	JLD	05/26
B	CONCEPT DESIGN	JLD	05/26
A	CONCEPT DESIGN	DCM	11/25
Rev	Description	By	Date
	By	Date	
Survey	LINZ	11/25	
Design	DCM	11/25	
Drawn	DCM	11/25	
Checked	JLD	11/25	



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Project
**HINUERA SOLAR FARM
SH 27 & 29, HINUERA
FOR
HARMONY ENERGY
NZ #6 LIMITED**

Title
**PROPOSED INDICATIVE
INTERNAL ROAD
TRACKING PLAN 1 OF 2**

Project no.	MM-0809		
Scale	1:500 @ A3		
Cad file	C300 - ROADING.DWG		
Drawing no.	C330-3	Rev	C

CONCEPT DESIGN

150mm
100
80
70
60
50
40
30
20
10
0



ROAD 02

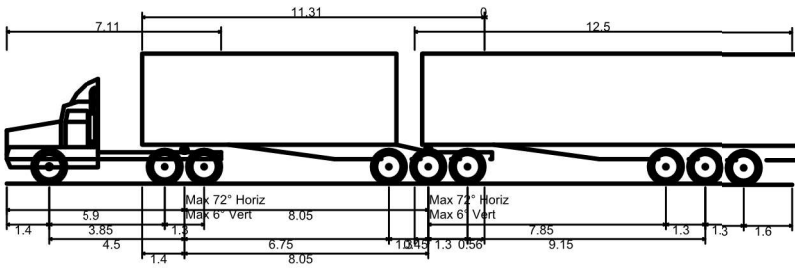
ROAD 02

ROAD 04

ROAD 04

PROPOSED, INDICATIVE FARM
ROAD INTERSECTION WIDENING
TO SUIT B-DOUBLE TRUCK

R40.00m



B-Double (26.0m)
Overall Length 26.000m
Overall Width 2.500m
Overall Body Height 4.300m
Min Body Ground Clearance 0.540m
Track Width 2.500m
Lock-to-lock time 6.00s
Curb to Curb Turning Radius 15.000m

- Notes
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Legend

---	EX BDY
---	PROP BDY
---	PROP 6m WIDE ROAD
---	PROP 5m WIDE ROAD
---	PROP ENTRANCEWAY
---	PR HARDSTAND AREA

C	CONCEPT DESIGN	JLD	05/26
B	CONCEPT DESIGN	JLD	05/26
A	CONCEPT DESIGN	DCM	11/25
Rev	Description	By	Date
	By	Date	
Survey	LINZ	11/25	
Design	DCM	11/25	
Drawn	DCM	11/25	
Checked	JLD	11/25	



Project
**HINUERA SOLAR FARM
SH 27 & 29, HINUERA
FOR
HARMONY ENERGY
NZ #6 LIMITED**

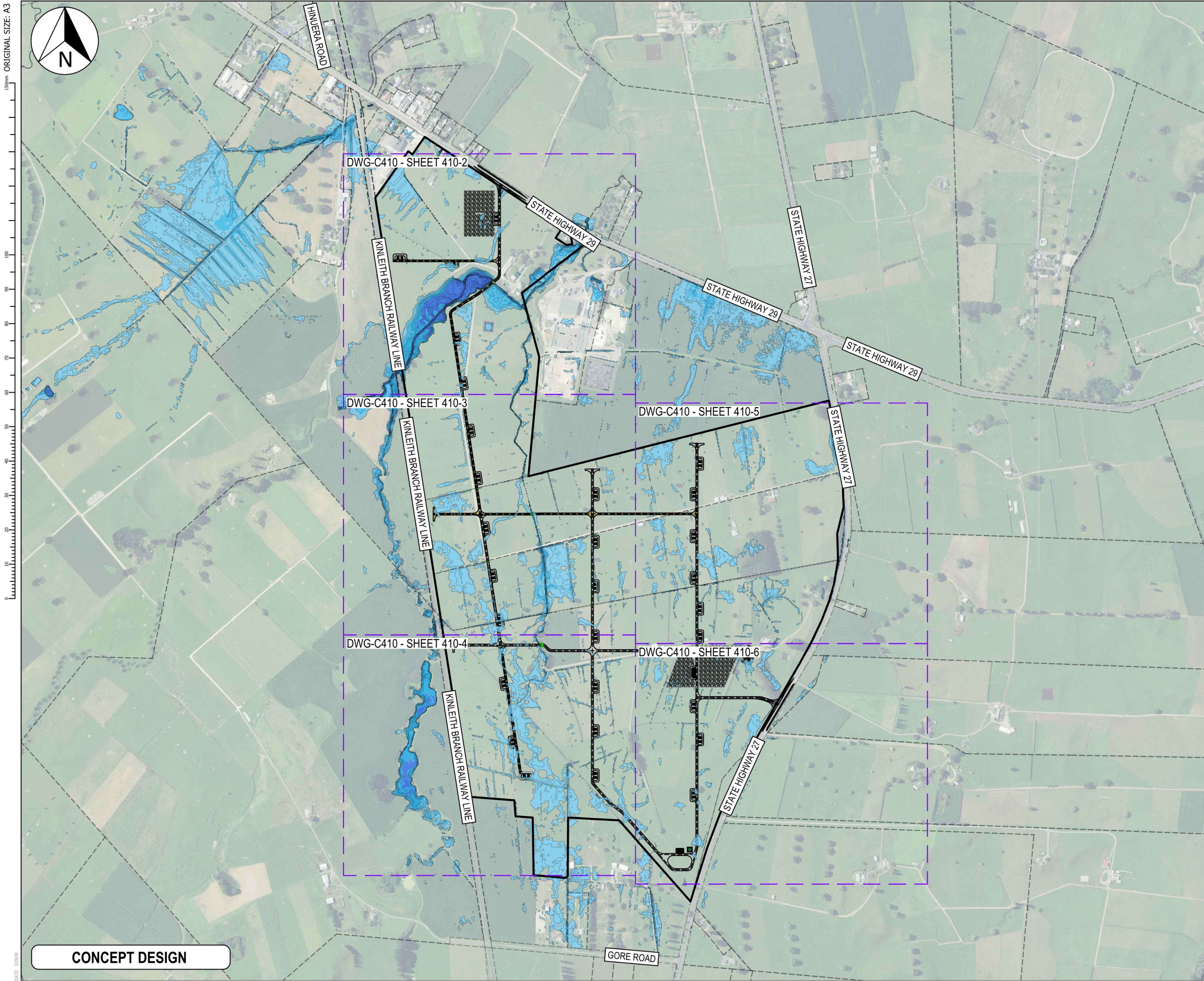
Title
**PROPOSED INDICATIVE
INTERNAL ROAD
TRACKING PLAN 2 OF 2**

Project no.	MM-0809		
Scale	1:500 @ A3		
Cad file	C300 - ROADING.DWG		
Drawing no.	C330-4	Rev	C

CONCEPT DESIGN

DATE: 5/15/26

150mm ORIGINAL SIZE: A3



- Notes
1. All works to be in accordance with MPDC or RITS standards.
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Flood Depth Table			
Number	Minimum Depth	Maximum Depth	Color
1	0.100	0.500	
2	0.500	1.000	
3	1.000	1.500	
4	1.500	2.000	
5	2.000	2.500	
6	2.500	3.000	
7	3.000	3.500	

Legend	
	EX BDY
	PROP BDY
	PROP 6m WIDE ROAD
	PROP 5m WIDE ROAD
	PROP ENTRANCEWAY
	PR HARDSTAND AREA

B	CONCEPT DESIGN	JLD	05/26
A	CONCEPT DESIGN	RMG	04/26
Rev	Description	By	Date
		By	Date
Survey	LINZ		11/25
Design	JLD		11/25
Drawn	MB		04/26
Checked	JLD		11/25



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Project
HINUERA SOLAR FARM
SH 27 & 29, HINUERA
FOR
HARMONY ENERGY
NZ #6 LIMITED

Title
EXISTING 10-YR FLOOD
LEVEL OVERVIEW PLAN

Project no.	MM-0809		
Scale	1:10000 @ A3		
Cad file	C410 - PRE 10YR DEPTH.DWG		
Drawing no.	C410-1	Rev	B

150mm
100
90
80
70
60
50
40
30
20
10
0



- Notes
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Flood Depth Table			
Number	Minimum Depth	Maximum Depth	Color
1	0.100	0.500	
2	0.500	1.000	
3	1.000	1.500	
4	1.500	2.000	
5	2.000	2.500	
6	2.500	3.000	
7	3.000	3.500	

Legend	
---	EX BDY
---	PROP BDY
---	PROP 6m WIDE ROAD
---	PROP 5m WIDE ROAD
---	PROP ENTRANCEWAY
---	PR HARDSTAND AREA
---	EX FLOOD DEPTH

B	CONCEPT DESIGN	JLD	05/26
A	CONCEPT DESIGN	RMG	04/26
Rev	Description	By	Date
Survey	LINZ		11/25
Design	JLD		11/25
Drawn	MB		04/26
Checked	JLD		11/25

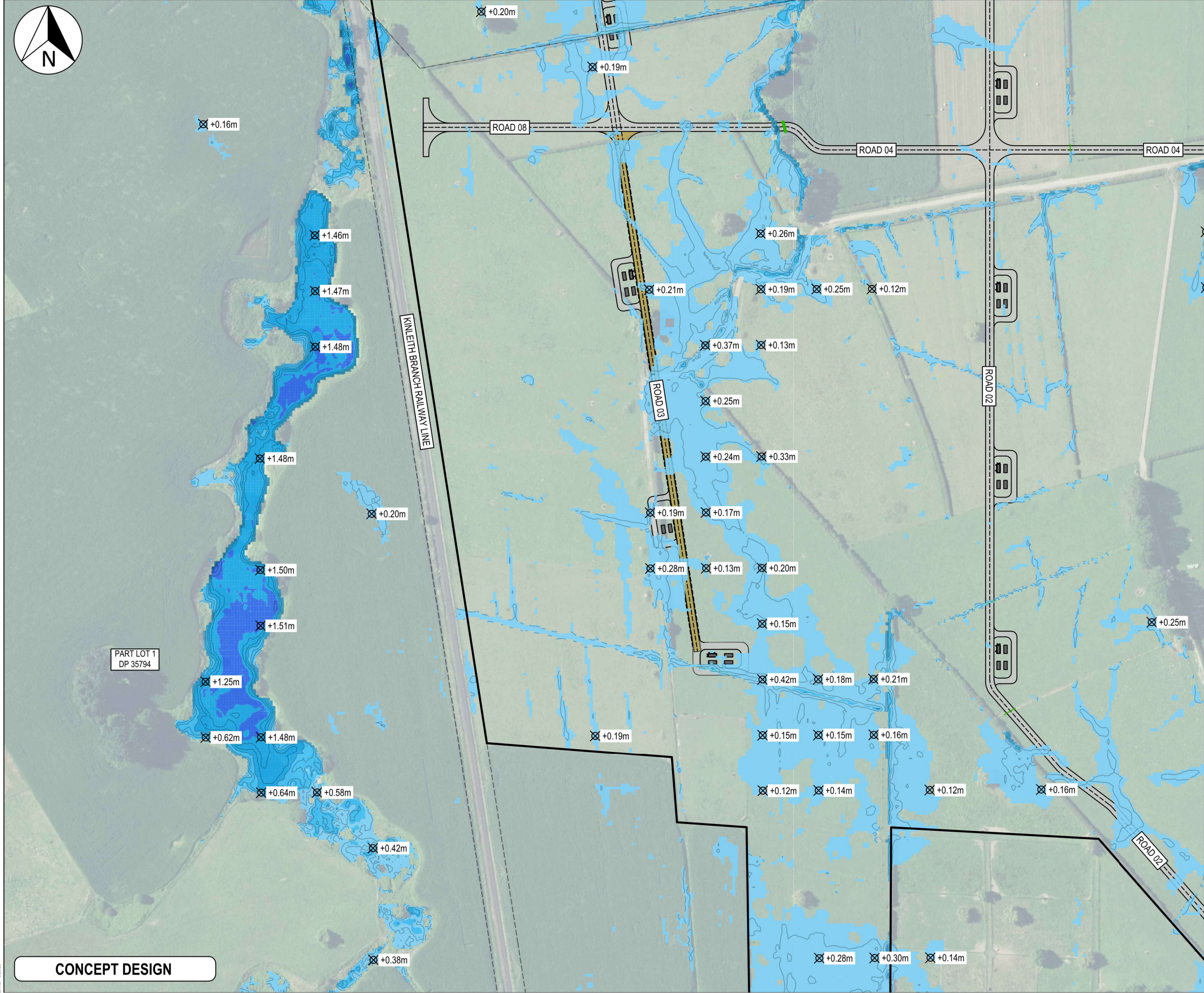


Project
HINUERA SOLAR FARM
SH 27 & 29, HINUERA
FOR
HARMONY ENERGY
NZ #6 LIMITED

Title
EXISTING 10-YR FLOOD
LEVEL PLAN

Project no.	MM-0809
Scale	1:2500 @ A3
Cad file	C410 - PRE 10YR DEPTH.DWG
Drawing no.	C410-2
Rev	B

150mm
100
90
80
70
60
50
40
30
20
10
0



PART LOT 1
DP 35794

CONCEPT DESIGN

- Notes
1. All works to be in accordance with MPDC or RITS standards.
 2. Co-ordinates in terms of Mount Eden 2000.
 3. Reduced Levels are in terms of NZVD 2016.
 4. It is the contractors responsibility to locate all services that may be affected by their operations.
 5. The contractor shall comply with all relevant OSH and Health & Safety requirements.
 6. The contractor shall obtain all necessary approval from utility operators before commencing work under or near their services.

Flood Depth Table			
Number	Minimum Depth	Maximum Depth	Color
1	0.100	0.500	
2	0.500	1.000	
3	1.000	1.500	
4	1.500	2.000	
5	2.000	2.500	
6	2.500	3.000	
7	3.000	3.500	

Legend	
---	EX BDY
---	PROP BDY
---	PROP 6m WIDE ROAD
---	PROP 5m WIDE ROAD
---	PROP ENTRANCEWAY
---	PR HARDSTAND AREA
⊗ +0.30m	EX FLOOD DEPTH

B	CONCEPT DESIGN	JLD	05/26
A	CONCEPT DESIGN	RMG	04/26
Rev	Description	By	Date
	Survey	LINZ	11/25
	Design	JLD	11/25
	Drawn	MB	04/26
	Checked	JLD	11/25



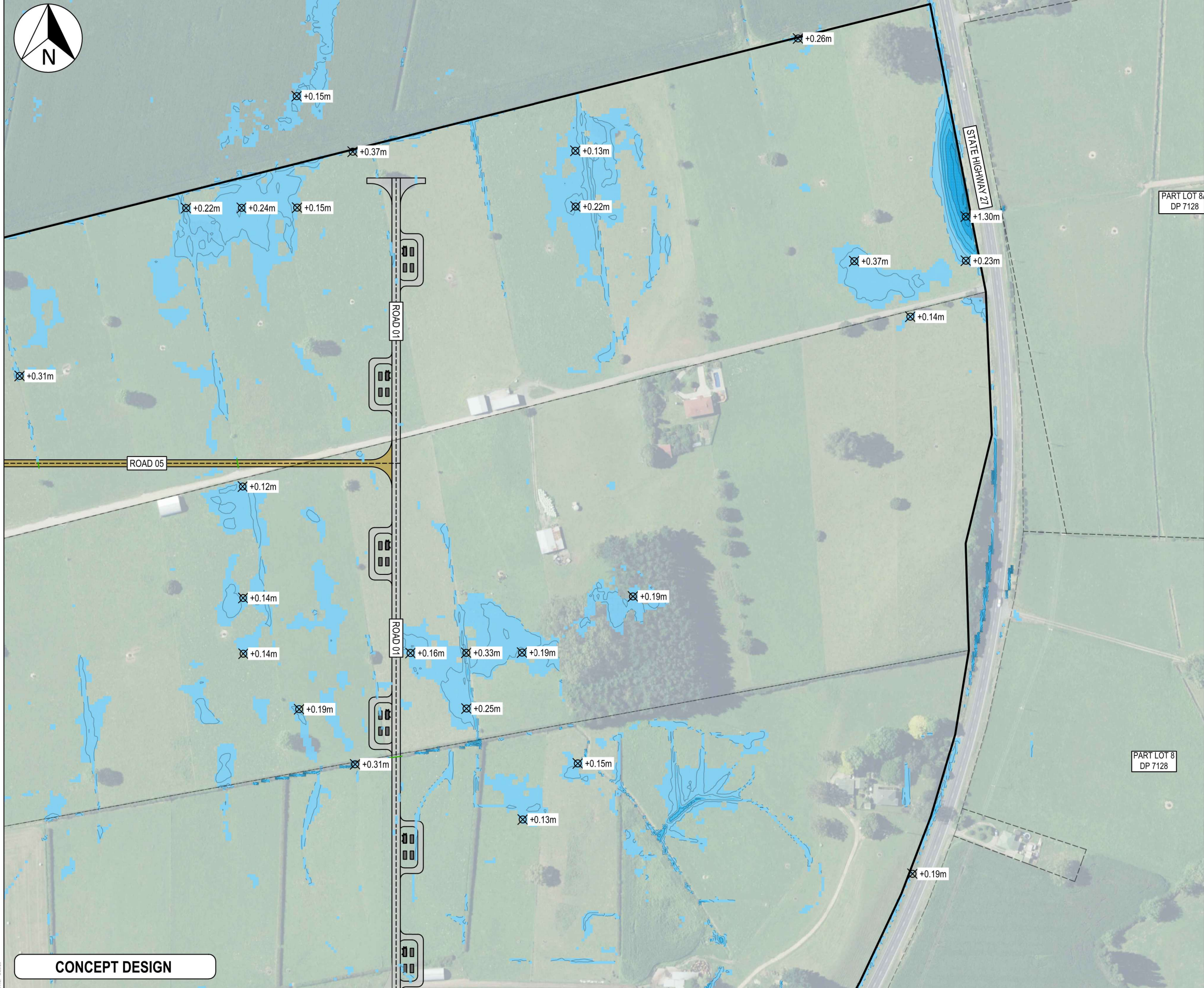
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Project
**HINUERA SOLAR FARM
SH 27 & 29, HINUERA
FOR
HARMONY ENERGY
NZ #6 LIMITED**

Title
**EXISTING 10-YR FLOOD
LEVEL PLAN**

Project no.	MM-0809
Scale	1:2500 @ A3
Cad file	C410 - PRE 10YR DEPTH.DWG
Drawing no.	C410-4
Rev	B

DATE: 5/26/2024 ORIGINAL SIZE: A3



CONCEPT DESIGN

- Notes
1. All works to be in accordance with MPDC or RITS standards.
 2. Co-ordinates in terms of Mount Eden 2000.
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Flood Depth Table			
Number	Minimum Depth	Maximum Depth	Color
1	0.100	0.500	
2	0.500	1.000	
3	1.000	1.500	
4	1.500	2.000	
5	2.000	2.500	
6	2.500	3.000	
7	3.000	3.500	

Legend	
---	EX BDY
---	PROP BDY
---	PROP 6m WIDE ROAD
---	PROP 5m WIDE ROAD
---	PROP ENTRANCEWAY
---	PR HARDSTAND AREA
---	EX FLOOD DEPTH

B	CONCEPT DESIGN	JLD	05/26
A	CONCEPT DESIGN	RMG	04/26
Rev	Description	By	Date
	By	Date	
Survey	LINZ	11/25	
Design	JLD	11/25	
Drawn	MB	04/26	
Checked	JLD	11/25	



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Project
**HINUERA SOLAR FARM
SH 27 & 29, HINUERA
FOR
HARMONY ENERGY
NZ #6 LIMITED**

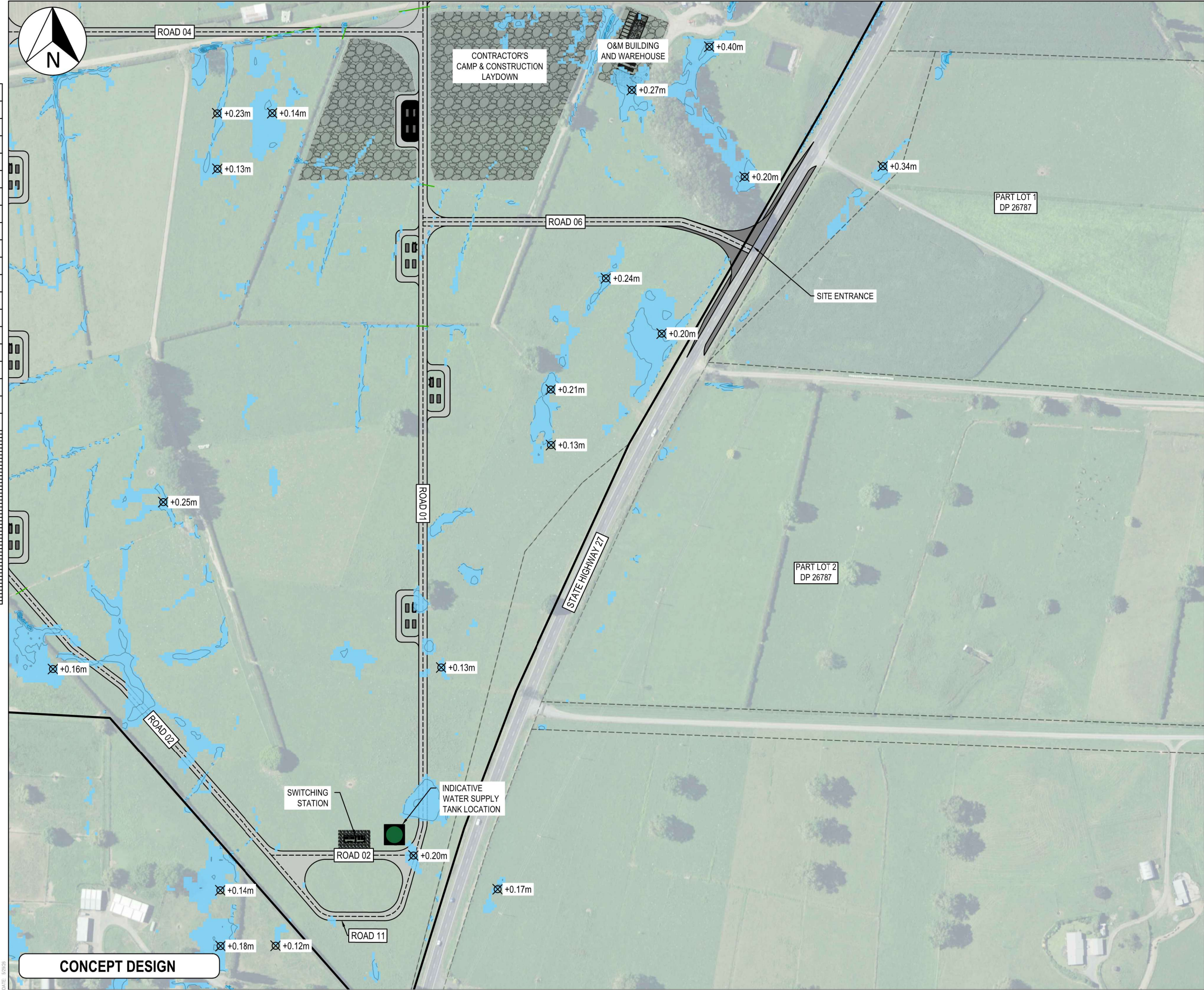
Title
**EXISTING 10-YR FLOOD
LEVEL PLAN**

Project no.	MM-0809		
Scale	1:2500 @ A3		
Cad file	C410 - PRE 10YR DEPTH.DWG		
Drawing no.	C410-5	Rev	B

150mm ORIGINAL SIZE: A3

0 10 20 30 40 50 60 70 80 90 100 110 120 130 140 150

DATE: 5/26/26



CONCEPT DESIGN

- Notes
1. All works to be in accordance with MPDC or RITS standards.
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Flood Depth Table			
Number	Minimum Depth	Maximum Depth	Color
1	0.100	0.500	
2	0.500	1.000	
3	1.000	1.500	
4	1.500	2.000	
5	2.000	2.500	
6	2.500	3.000	
7	3.000	3.500	

Legend	
	EX BDY
	PROP BDY
	PROP 6m WIDE ROAD
	PROP 5m WIDE ROAD
	PROP ENTRANCEWAY
	PR HARDSTAND AREA
	EX FLOOD DEPTH

B	CONCEPT DESIGN	JLD	05/26
A	CONCEPT DESIGN	RMG	04/26
Rev	Description	By	Date
	By	Date	
Survey	LINZ	11/25	
Design	JLD	11/25	
Drawn	MB	04/26	
Checked	JLD	11/25	



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Project

HINUERA SOLAR FARM

SH 27 & 29, HINUERA

FOR

HARMONY ENERGY

NZ #6 LIMITED

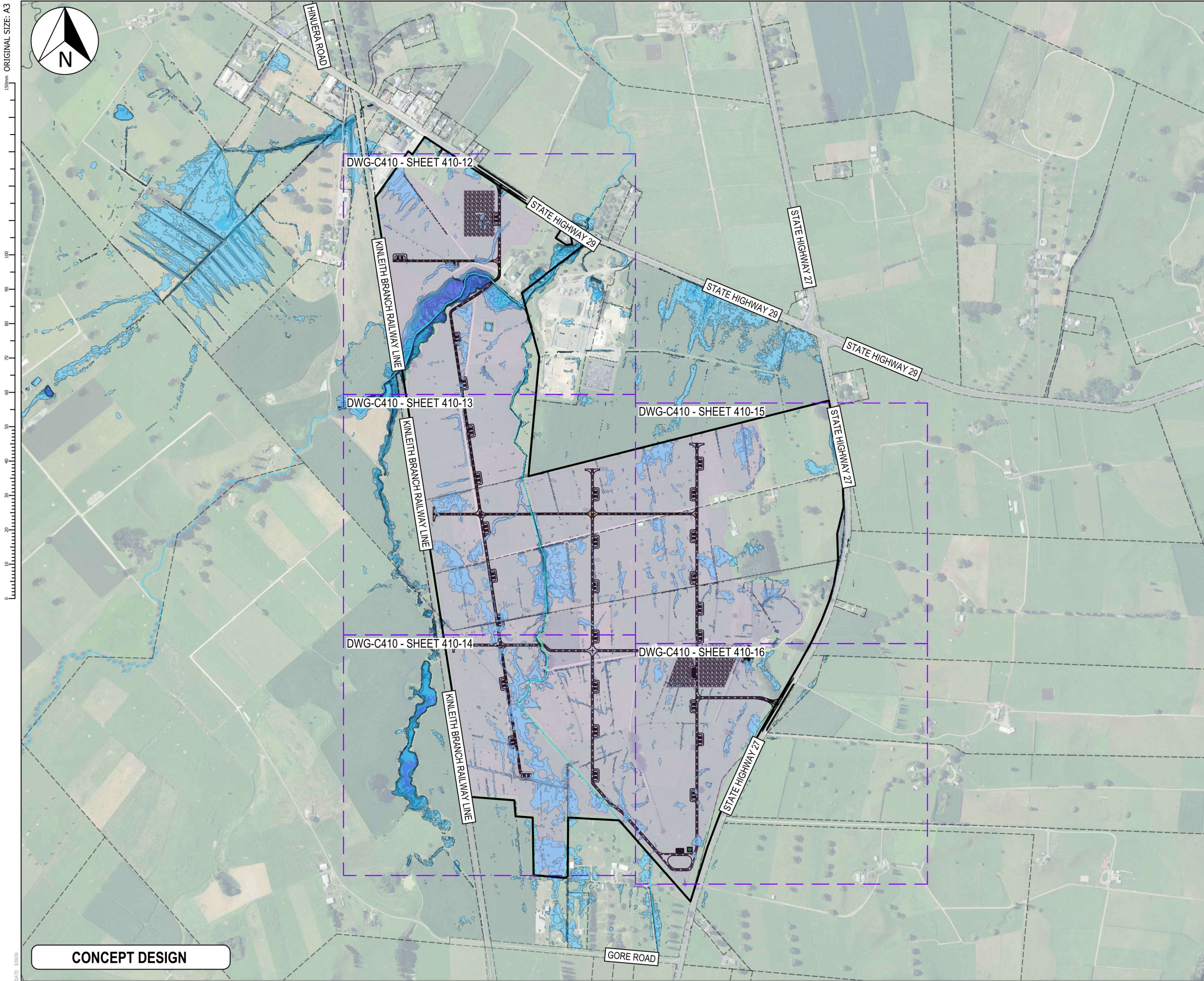
Title

EXISTING 10-YR FLOOD

LEVEL PLAN

Project no.	MM-0809		
Scale	1:2500 @ A3		
Cad file	C410 - PRE 10YR DEPTH.DWG		
Drawing no.	C410-6	Rev	B

150mm ORIGINAL SIZE: A3



CONCEPT DESIGN

- Notes
1. All works to be in accordance with MPDC or RITS standards.
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Flood Depth Table			
Number	Minimum Depth	Maximum Depth	Color
1	0.100	0.500	
2	0.500	1.000	
3	1.000	1.500	
4	1.500	2.000	
5	2.000	2.500	
6	2.500	3.000	
7	3.000	3.500	

- Legend
- EX BDY
 - PROP BDY
 - EX WATERCOURSE
 - PR HARMONY OFFSET
 - PROP 6m WIDE ROAD
 - PROP 5m WIDE ROAD
 - PROP ENTRANCEWAY
 - PR HARDSTAND AREA
 - AREA AVAILABLE FOR PV PANEL LAYOUT

B	CONCEPT DESIGN	JLD	05/26
A	CONCEPT DESIGN	RMG	04/26
Rev	Description	By	Date
		By	Date
Survey	LINZ		11/25
Design	JLD		11/25
Drawn	MB		04/26
Checked	JLD		11/25

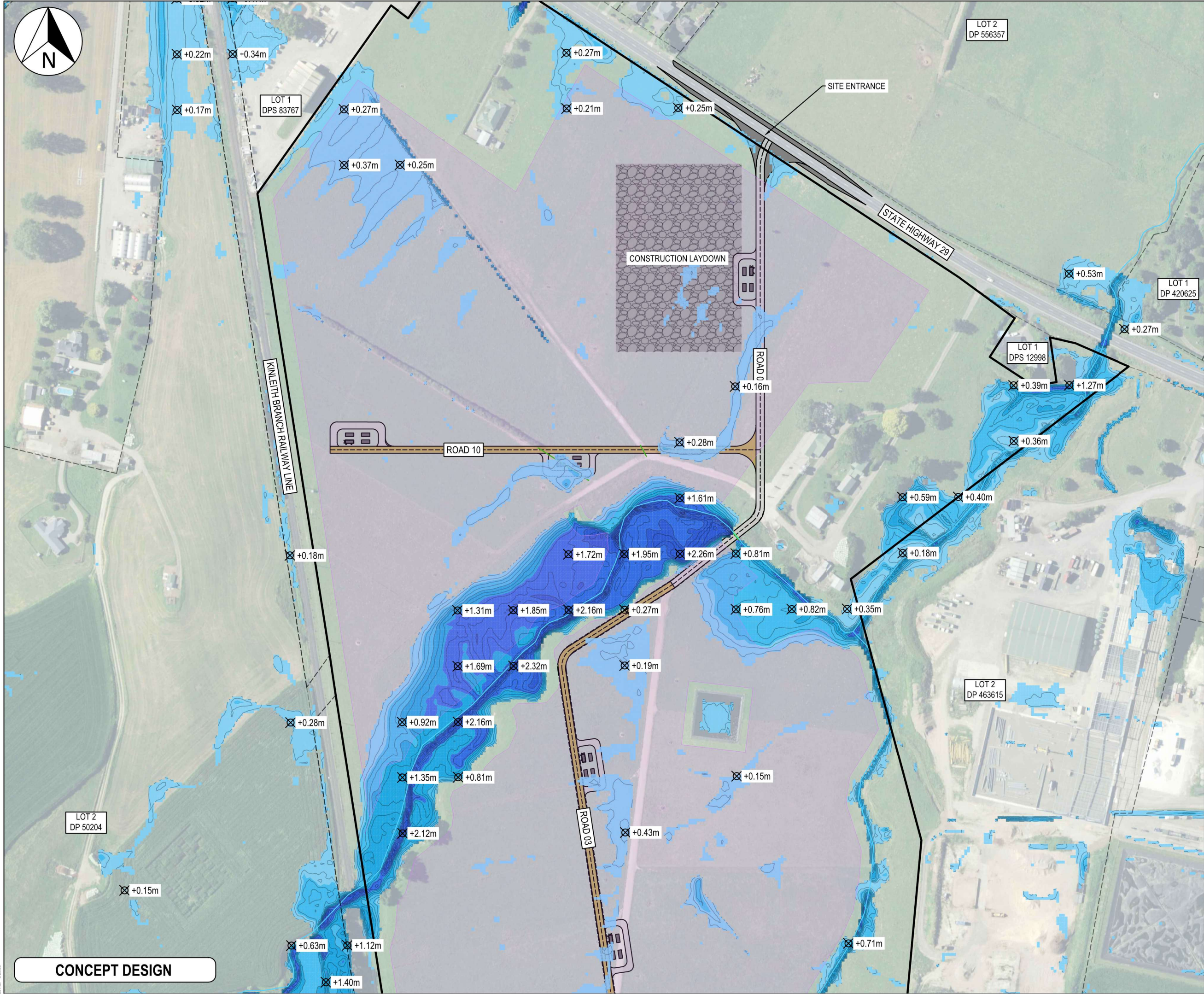


Project
HINUERA SOLAR FARM
SH 27 & 29, HINUERA
FOR
HARMONY ENERGY
NZ #6 LIMITED

Title
EXISTING 10-YR FLOOD
LEVEL & PANEL LAYOUT
OVERVIEW PLAN

Project no.	MM-0809
Scale	1:10000 @ A3
Cad file	C410 - PRE 10YR DEPTH.DWG
Drawing no.	C410-11
Rev	B

DATE: 5/26/26 ORIGINAL SIZE: A3



- Notes
1. All works to be in accordance with MPDC or RITS standards.
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Flood Depth Table			
Number	Minimum Depth	Maximum Depth	Color
1	0.100	0.500	
2	0.500	1.000	
3	1.000	1.500	
4	1.500	2.000	
5	2.000	2.500	
6	2.500	3.000	
7	3.000	3.500	

Legend	
	EX BDY
	PROP BDY
	EX WATERCOURSE
	PR HARMONY OFFSET
	PROP 6m WIDE ROAD
	PROP 5m WIDE ROAD
	PROP ENTRANCEWAY
	PR HARDSTAND AREA
	AREA AVAILABLE FOR PV PANEL LAYOUT

Rev	Description	By	Date
B	CONCEPT DESIGN	JLD	05/26
A	CONCEPT DESIGN	RMG	04/26
Survey	LINZ		11/25
Design	JLD		11/25
Drawn	MB		04/26
Checked	JLD		11/25



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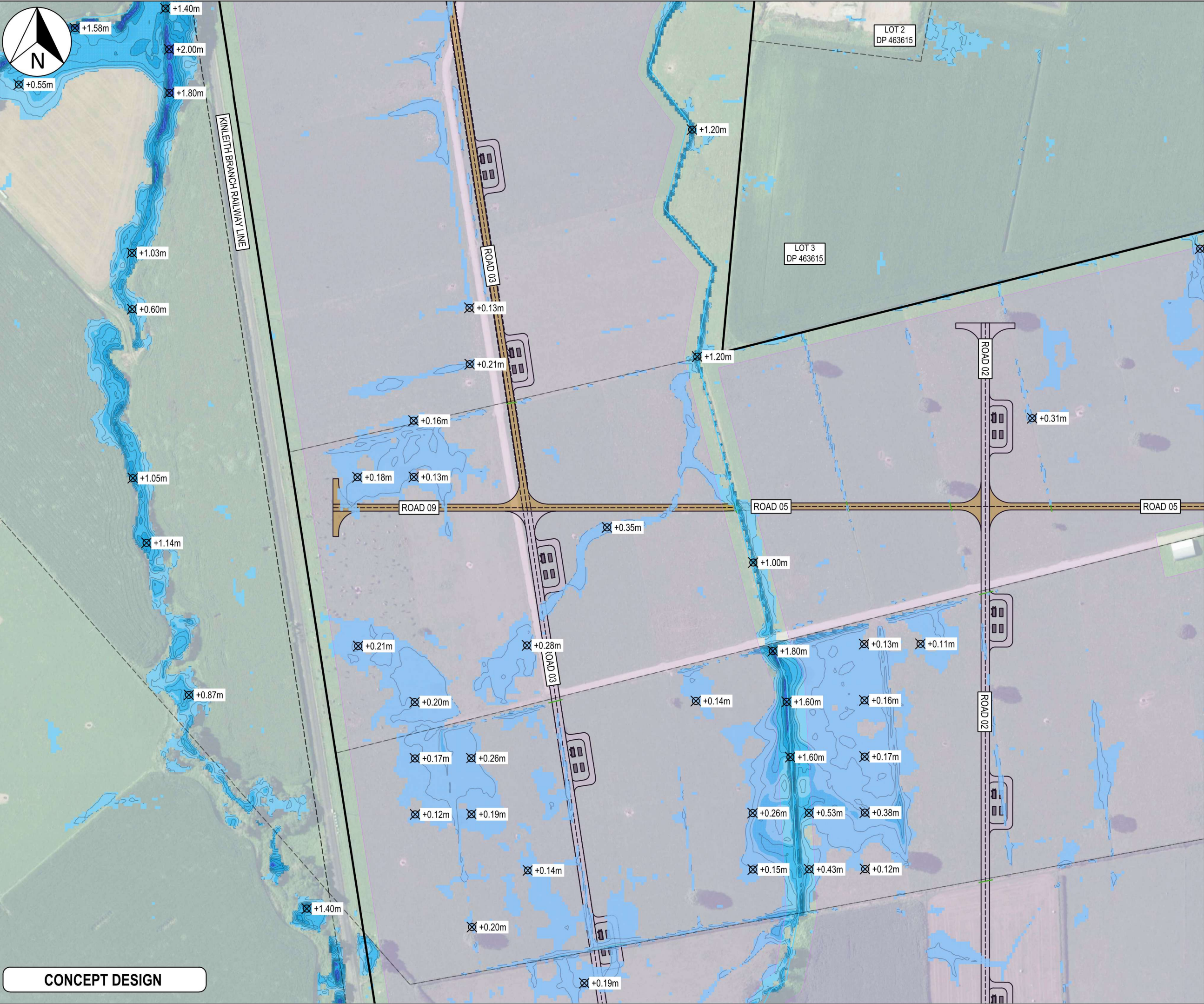
Project
**HINUERA SOLAR FARM
SH 27 & 29, HINUERA
FOR
HARMONY ENERGY
NZ #6 LIMITED**

Title
**EXISTING 10-YR FLOOD
LEVEL & PANEL LAYOUT
PLAN**

Project no.	MM-0809		
Scale	1:2500 @ A3		
Cad file	C410 - PRE 10YR DEPTH.DWG		
Drawing no.	C410-12	Rev	B

CONCEPT DESIGN

DATE: 5/26/26 ORIGINAL SIZE: A3



CONCEPT DESIGN

- Notes
1. All works to be in accordance with MPDC or RITS standards.
 2. Co-ordinates in terms of Mount Eden 2000.
 3. Reduced Levels are in terms of NZVD 2016.
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Flood Depth Table			
Number	Minimum Depth	Maximum Depth	Color
1	0.100	0.500	
2	0.500	1.000	
3	1.000	1.500	
4	1.500	2.000	
5	2.000	2.500	
6	2.500	3.000	
7	3.000	3.500	

- Legend
- EX BDY
 - PROP BDY
 - EX WATERCOURSE
 - PR HARMONY OFFSET
 - PROP 6m WIDE ROAD
 - PROP 5m WIDE ROAD
 - PROP ENTRANCEWAY
 - PR HARDSTAND AREA
 - AREA AVAILABLE FOR PV PANEL LAYOUT

B	CONCEPT DESIGN	JLD	05/26
A	CONCEPT DESIGN	RMG	04/26
Rev	Description	By	Date
	By	Date	
Survey	LINZ	11/25	
Design	JLD	11/25	
Drawn	MB	04/26	
Checked	JLD	11/25	



Project
**HINUERA SOLAR FARM
SH 27 & 29, HINUERA
FOR
HARMONY ENERGY
NZ #6 LIMITED**

Title
**EXISTING 10-YR FLOOD
LEVEL & PANEL LAYOUT
PLAN**

Project no.	MM-0809		
Scale	1:2500 @ A3		
Cad file	C410 - PRE 10YR DEPTH.DWG		
Drawing no.	C410-13	Rev	B

150mm
100
90
80
70
60
50
40
30
20
10
0



PART LOT 1
DP 35794

KINLEITH BRANCH RAILWAY LINE

ROAD 08

ROAD 04

ROAD 04

ROAD 03

ROAD 02

ROAD 02

⊗ +0.16m

⊗ +1.46m

⊗ +1.47m

⊗ +1.48m

⊗ +1.48m

⊗ +0.20m

⊗ +1.50m

⊗ +1.51m

⊗ +1.25m

⊗ +0.62m

⊗ +1.48m

⊗ +0.64m

⊗ +0.58m

⊗ +0.42m

⊗ +0.38m

⊗ +0.44m

⊗ +0.19m

⊗ +0.21m

⊗ +0.26m

⊗ +0.19m

⊗ +0.25m

⊗ +0.12m

⊗ +0.37m

⊗ +0.13m

⊗ +0.25m

⊗ +0.24m

⊗ +0.33m

⊗ +0.19m

⊗ +0.17m

⊗ +0.28m

⊗ +0.13m

⊗ +0.20m

⊗ +0.15m

⊗ +0.42m

⊗ +0.18m

⊗ +0.21m

⊗ +0.19m

⊗ +0.15m

⊗ +0.15m

⊗ +0.16m

⊗ +0.12m

⊗ +0.14m

⊗ +0.12m

⊗ +0.16m

⊗ +0.28m

⊗ +0.30m

⊗ +0.14m

⊗ +0.14m

⊗ +0.30m

⊗ +0.33m

⊗ +0.22m

Notes

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Flood Depth Table

Number	Minimum Depth	Maximum Depth	Color
1	0.100	0.500	
2	0.500	1.000	
3	1.000	1.500	
4	1.500	2.000	
5	2.000	2.500	
6	2.500	3.000	
7	3.000	3.500	

Legend

	EX BDY
	PROP BDY
	EX WATERCOURSE
	PR HARMONY OFFSET
	PROP 6m WIDE ROAD
	PROP 5m WIDE ROAD
	PROP ENTRANCEWAY
	PR HARDSTAND AREA
	AREA AVAILABLE FOR PV PANEL LAYOUT

B	CONCEPT DESIGN	JLD	05/26
A	CONCEPT DESIGN	RMG	04/26
Rev	Description	By	Date
		By	Date
Survey	LINZ		11/25
Design	JLD		11/25
Drawn	MB		04/26
Checked	JLD		11/25



Project
HINUERA SOLAR FARM
SH 27 & 29, HINUERA
FOR
HARMONY ENERGY
NZ #6 LIMITED

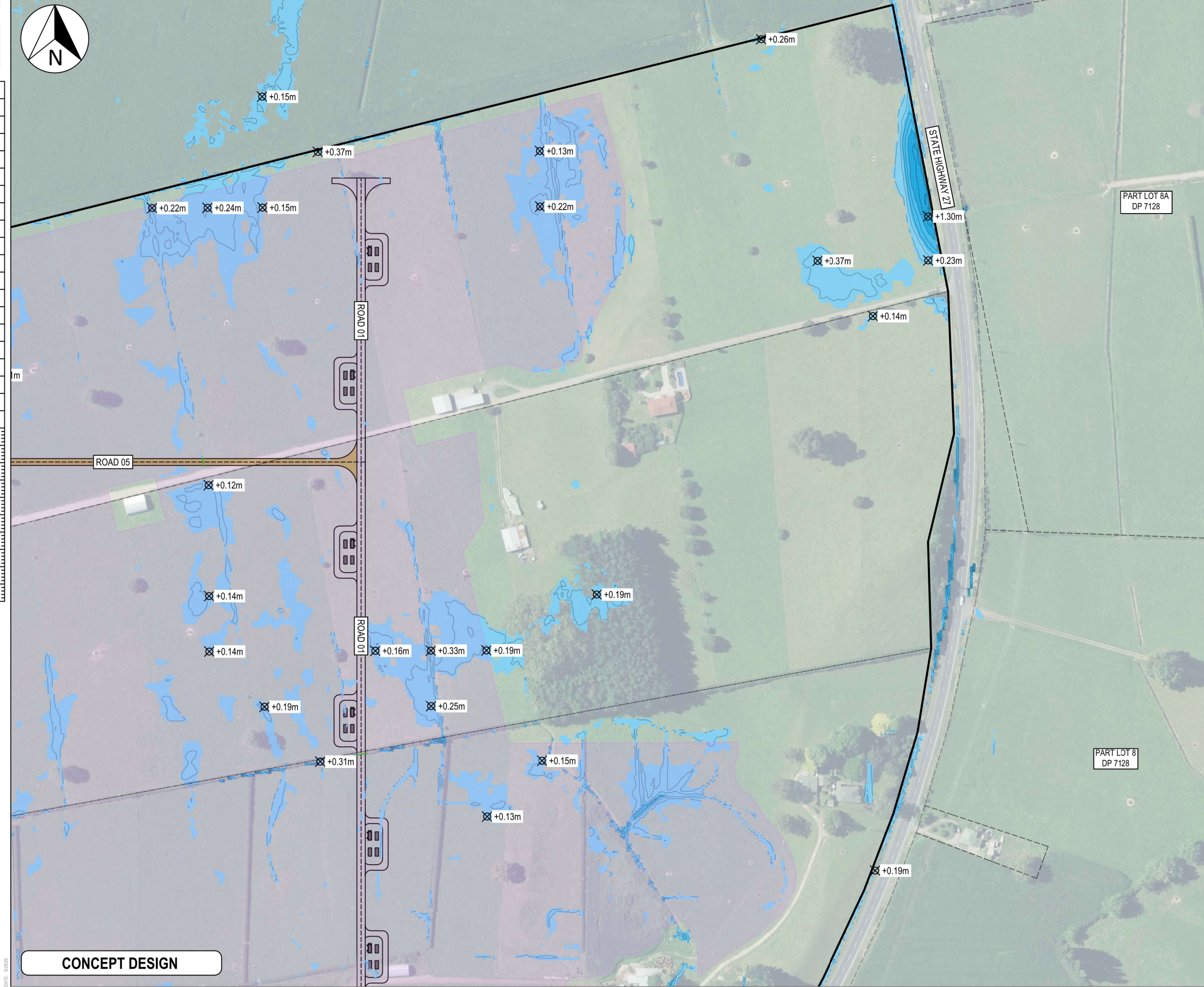
Title
EXISTING 10-YR FLOOD
LEVEL & PANEL LAYOUT
PLAN

Project no.	MM-0809
Scale	1:2500 @ A3
Cad file	C410 - PRE 10YR DEPTH.DWG
Drawing no.	C410-14
Rev	B

CONCEPT DESIGN

DATE: 5/26/26

150mm
100
90
80
70
60
50
40
30
20
10
0



- Notes
1. All works to be in accordance with MPDC or RITS standards.
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Flood Depth Table			
Number	Minimum Depth	Maximum Depth	Color
1	0.100	0.500	
2	0.500	1.000	
3	1.000	1.500	
4	1.500	2.000	
5	2.000	2.500	
6	2.500	3.000	
7	3.000	3.500	

Legend	
---	EX BDY
---	PROP BDY
---	EX WATERCOURSE
---	PR HARMONY OFFSET
---	PROP 6m WIDE ROAD
---	PROP 5m WIDE ROAD
---	PROP ENTRANCEWAY
---	PR HARDSTAND AREA
---	AREA AVAILABLE FOR PV PANEL LAYOUT

B	CONCEPT DESIGN	JLD	05/26
A	CONCEPT DESIGN	RMG	04/26
Rev	Description	By	Date
	By	Date	
Survey	LINZ	11/25	
Design	JLD	11/25	
Drawn	MB	04/26	
Checked	JLD	11/25	



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Project
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FOR
HARMONY ENERGY
NZ #6 LIMITED

Title
EXISTING 10-YR FLOOD
LEVEL & PANEL LAYOUT
PLAN

Project no.	MM-0809		
Scale	1:2500 @ A3		
Cad file	C410 - PRE 10YR DEPTH.DWG		
Drawing no.	C410-15	Rev	B

150mm
100
90
80
70
60
50
40
30
20
10
0

DATE: 5/26/26



CONCEPT DESIGN

- Notes
1. All works to be in accordance with MPDC or RITS standards.
 2. Co-ordinates in terms of Mount Eden 2000.
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Flood Depth Table			
Number	Minimum Depth	Maximum Depth	Color
1	0.100	0.500	
2	0.500	1.000	
3	1.000	1.500	
4	1.500	2.000	
5	2.000	2.500	
6	2.500	3.000	
7	3.000	3.500	

Legend	
---	EX BDY
---	PROP BDY
---	EX WATERCOURSE
---	PR HARMONY OFFSET
---	PROP 6m WIDE ROAD
---	PROP 5m WIDE ROAD
---	PROP ENTRANCEWAY
---	PR HARDSTAND AREA
---	AREA AVAILABLE FOR PV PANEL LAYOUT

B	CONCEPT DESIGN	JLD	05/26
A	CONCEPT DESIGN	RMG	04/26
Rev	Description	By	Date
	Survey	LINZ	11/25
	Design	JLD	11/25
	Drawn	MB	04/26
	Checked	JLD	11/25



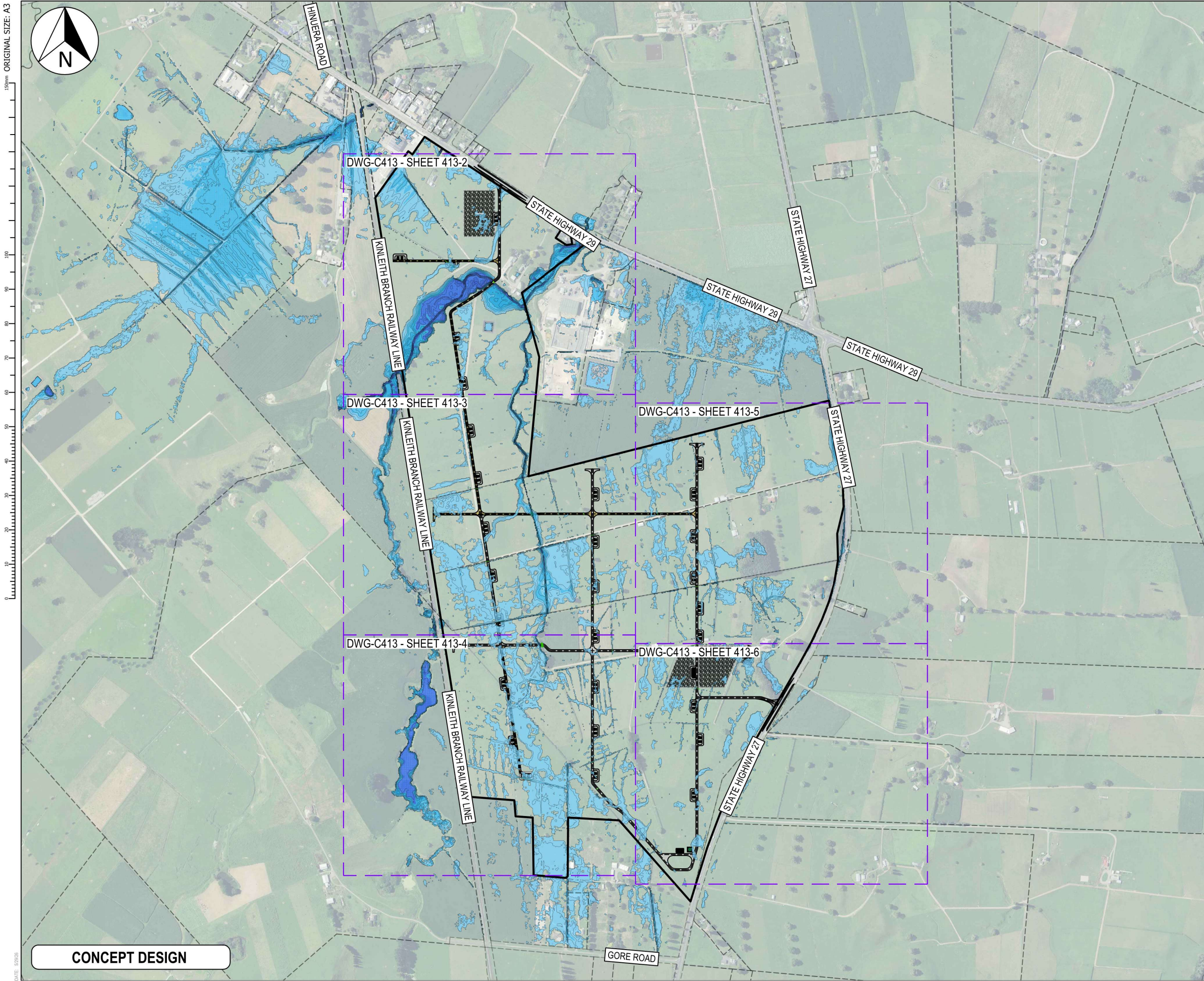
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Project
HINUERA SOLAR FARM
SH 27 & 29, HINUERA
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HARMONY ENERGY
NZ #6 LIMITED

Title
EXISTING 10-YR FLOOD
LEVEL & PANEL LAYOUT
PLAN

Project no.	MM-0809
Scale	1:2500 @ A3
Cad file	C410 - PRE 10YR DEPTH.DWG
Drawing no.	C410-16
Rev	B

150mm ORIGINAL SIZE: A3



CONCEPT DESIGN

- Notes
1. All works to be in accordance with MPDC or RITS standards.
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Flood Depth Table			
Number	Minimum Depth	Maximum Depth	Color
1	0.100	0.500	
2	0.500	1.000	
3	1.000	1.500	
4	1.500	2.000	
5	2.000	2.500	
6	2.500	3.000	
7	3.000	3.500	

Legend		
	EX BDY	
	PROP BDY	
	PROP 6m WIDE ROAD	
	PROP 5m WIDE ROAD	
	PROP ENTRANCEWAY	
	PR HARDSTAND AREA	

B	CONCEPT DESIGN	JLD	05/26
A	CONCEPT DESIGN	RMG	04/26
Rev	Description	By	Date
	By	Date	
Survey	LINZ	11/25	
Design	JLD	11/25	
Drawn	MB	04/26	
Checked	JLD	11/25	



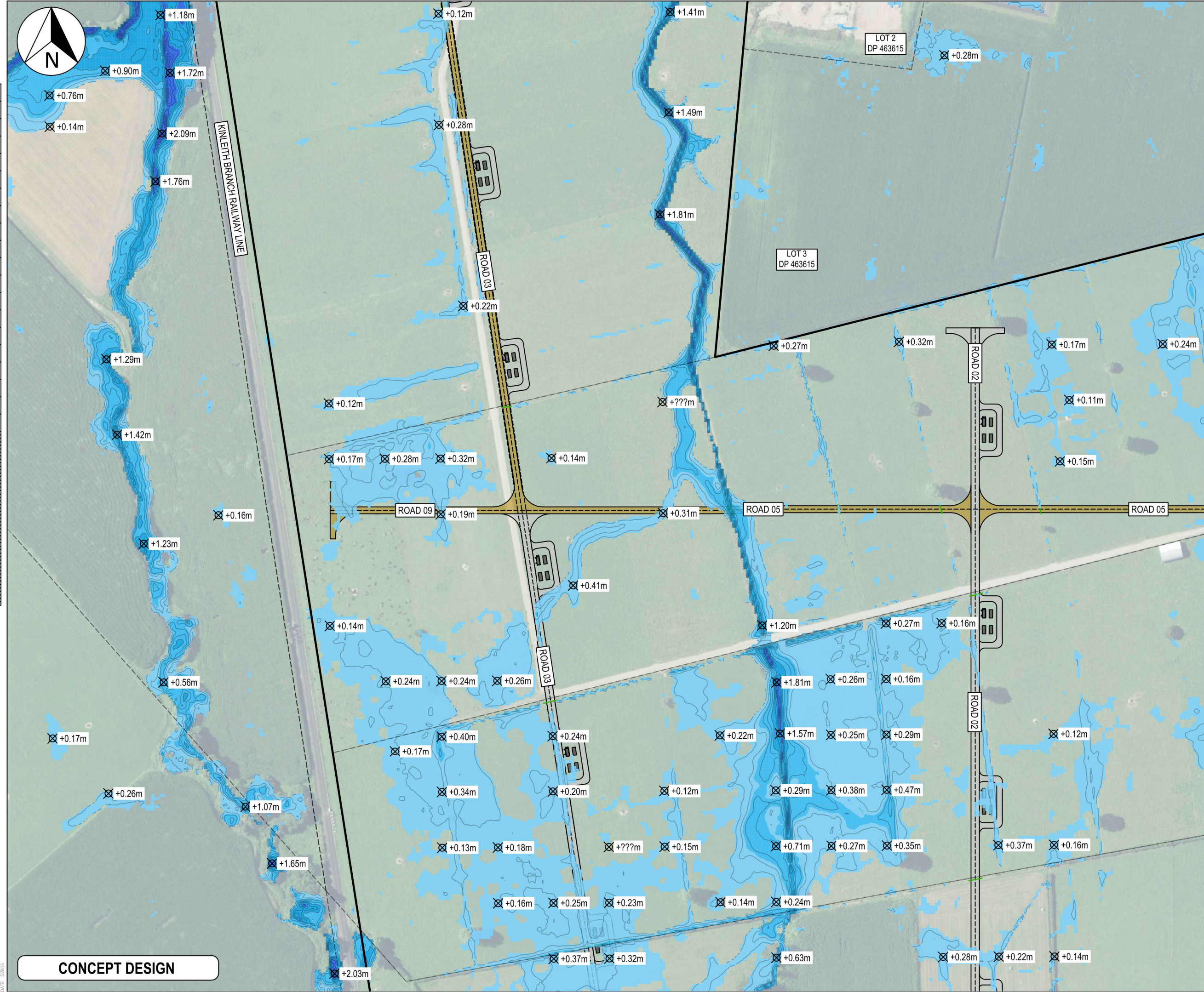
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Project
HINUERA SOLAR FARM
SH 27 & 29, HINUERA
FOR
HARMONY ENERGY
NZ #6 LIMITED

Title
EXISTING 100-YR FLOOD
LEVEL OVERVIEW PLAN

Project no.	MM-0809		
Scale	1:10000 @ A3		
Cad file	C413 - PRE 100YR DEPTH.DWG		
Drawing no.	C413-1	Rev	B

150mm ORIGINAL SIZE: A3



- Notes
1. All works to be in accordance with MPDC or RITS standards.
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Flood Depth Table			
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1	0.100	0.500	
2	0.500	1.000	
3	1.000	1.500	
4	1.500	2.000	
5	2.000	2.500	
6	2.500	3.000	
7	3.000	3.500	

Legend	
	EX BDY
	PROP BDY
	PROP 6m WIDE ROAD
	PROP 5m WIDE ROAD
	PROP ENTRANCEWAY
	PR HARDSTAND AREA
	EX FLOOD DEPTH

B	CONCEPT DESIGN	JLD	05/26
A	CONCEPT DESIGN	RMG	04/26
Rev	Description	By	Date
	By	Date	
Survey	LINZ	11/25	
Design	JLD	11/25	
Drawn	MB	04/26	
Checked	JLD	11/25	



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Project
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SH 27 & 29, HINUERA
FOR
HARMONY ENERGY
NZ #6 LIMITED

Title
EXISTING 100-YR FLOOD
LEVEL PLAN

Project no.	MM-0809		
Scale	1:2500 @ A3		
Cad file	C413 - PRE 100YR DEPTH.DWG		
Drawing no.	C413-3	Rev	B

CONCEPT DESIGN

DATE: 5/26/26