

**Notes:**

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3. COORDINATES SHOWN ARE IN TERMS OF MT EDEN 2000 CIRCUIT AND LEVELS ARE RELATIVE TO THE AUCKLAND 1946 VERTICAL DATUM.
4. THE PROPOSED ROAD ALIGNMENT, TURBINE PLATFORMS, AND OVERALL EARTHWORKS ARE BASED ON AN INDICATIVE ROAD ALIGNMENT AND REMAIN SUBJECT TO DETAILED DESIGN.
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**LEGEND**

- EXISTING PARCEL BOUNDARY
- JACKSON PROPERTY BOUNDARY
- ROTOKOHU FARMS PROPERTY BOUNDARY
- DENIZE BROTHERS PROPERTY BOUNDARY
- HDC/MPDC TERRITORIAL BOUNDARY
- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- PROPOSED MAJOR CONTOUR
- PROPOSED MINOR CONTOUR
- EXTENT OF EARTHWORK
- PROPOSED TURBINE LOCATION
- EXISTING TRANSPOWER NATIONAL GRID LINES
- PROPOSED ROAD CENTER LINE AND EDGE OF CARRIAGEWAY
- EXISTING FENCE
- INDICATIVE QUARRY SITE
- INDICATIVE CLEANFILL SITE
- EXISTING CULVERT
- PROPOSED UPGRADED CULVERT
- STREAM (WRC REGIONAL MAP)

B	S92 RESPONSE UPDATE	LT	18.10.18
A	RESOURCE CONSENT	JT	15.06.18

REV:	DESCRIPTION:	BY:	DATE:
STATUS:		<b>RESOURCE CONSENT</b>	

TEKTUS Consultants Ltd  
 PO Box 80212 Green Bay  
 Auckland 0643 NZ  
 p. 09 827 1191  
 m. 021 1434 874  
 www.tektus.nz

CLIENT:  
 VENTUS ENERGY (NZ) LTD  
 10/215 ROSEDALE ROAD, ALBANY  
 AUCKLAND 0632

SURVEYOR:  
 SYNERGY POSITIONING SYSTEMS LTD  
 3/52 ARRENWAY DRIVE, ALBANY,  
 AUCKLAND 0632

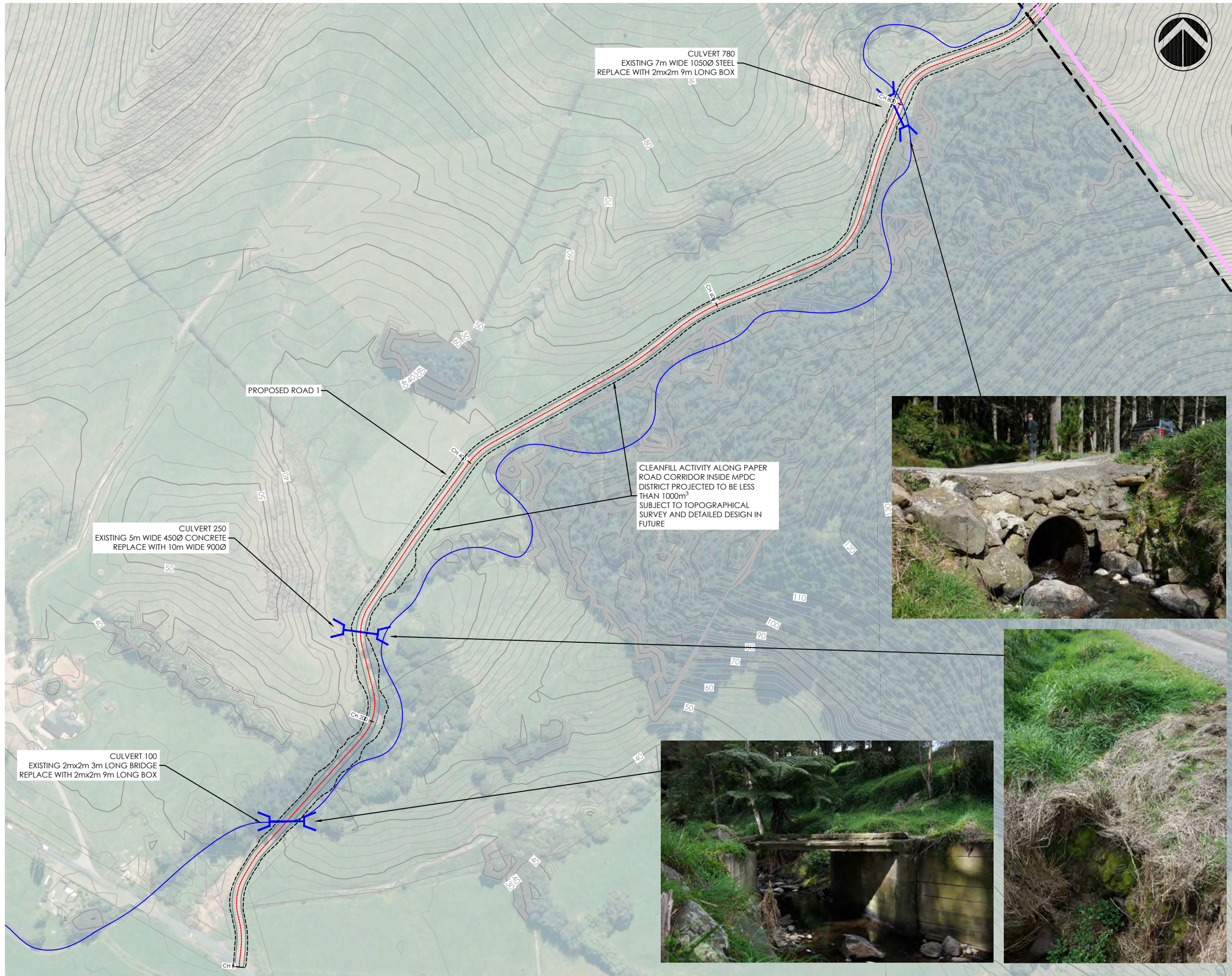
SITE:  
 KAIMAI WIND FARM  
 ROTOKOHU ROAD, PAEROA

TITLE:  
 PRELIMINARY CIVIL ENGINEERING  
 DRAWINGS

SUBTITLE:  
 GENERAL ARRANGEMENT PLAN  
 DETAIL PLAN SHEET 7

SCALE AT A3:	DATE:	DRAWN:	CHECKED:
1:5000	15.06.18	JT	JT
PROJECT NO:	DRAWING NO:	REVISION:	
T15022	200-7	B	





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- ⊥ PROPOSED TURBINE LOCATION
- EXISTING TRANSPOWER NATIONAL GRID LINES
- PROPOSED ROAD CENTER LINE AND EDGE OF CARRIAGEWAY
- EXISTING FENCE
- ⊗ INDICATIVE QUARRY SITE
- ⊙ INDICATIVE CLEANFILL SITE
- EXISTING CULVERT
- PROPOSED UPGRADED CULVERT
- STREAM (WRC REGIONAL MAP)

A | ADDITIONAL PLAN FOR S92 RESPONSE | LT | 04.10.18

REV:	DESCRIPTION:	BY:	DATE:
STATUS:		<b>RESOURCE CONSENT</b>	

**TEKTUS** Consultants Ltd  
 PO Box 80212 Green Bay  
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**CLIENT:**  
 VENTUS ENERGY (NZ) LTD  
 10/215 ROSEDALE ROAD, ALBANY  
 AUCKLAND 0632

**SURVEYOR:**  
 SYNERGY POSITIONING SYSTEMS LTD  
 3/52 ARRENWAY DRIVE, ALBANY,  
 AUCKLAND 0632

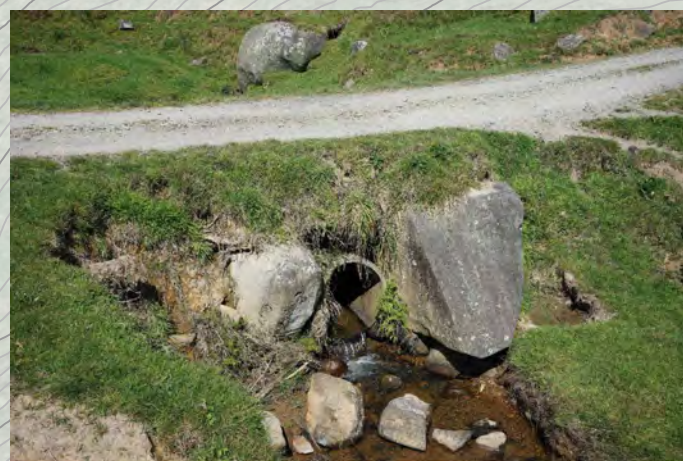
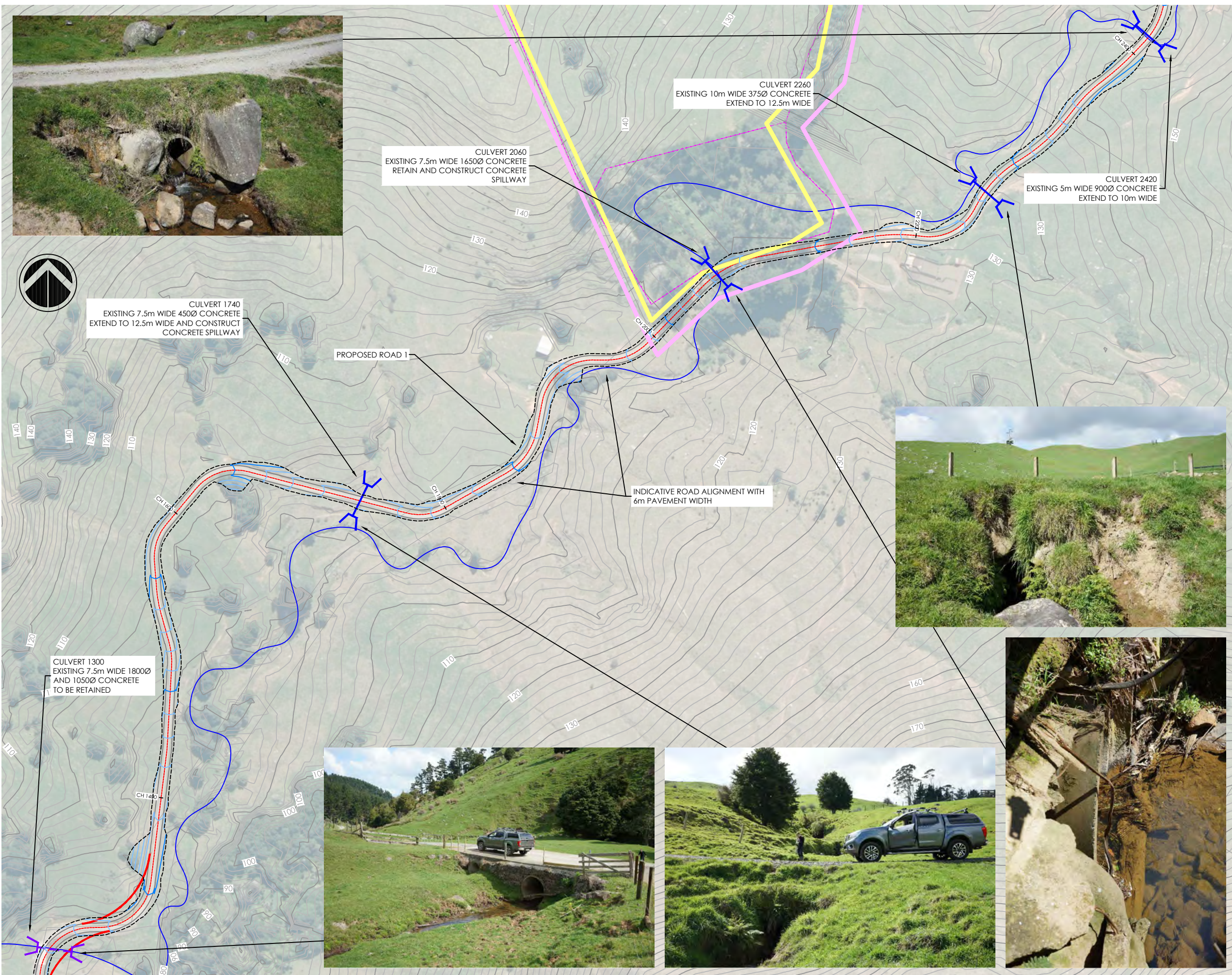
**SITE:**  
 KAIMAI WIND FARM  
 ROTOKOHU ROAD, PAEROA

**TITLE:**  
 PRELIMINARY CIVIL ENGINEERING  
 DRAWINGS

**SUBTITLE:**  
 GENERAL ARRANGEMENT PLAN  
 DETAIL PLAN SHEET 8

SCALE AT A3:	DATE:	DRAWN:	CHECKED:
1:2500	04.10.18	LT	JT
PROJECT NO:	DRAWING NO:	REVISION:	
T15022	200-8	A	





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**LEGEND**

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- PROPOSED MINOR CONTOUR
- EXTENT OF EARTHWORK
- PROPOSED TURBINE LOCATION
- EXISTING TRANSPOWER NATIONAL GRID LINES
- PROPOSED ROAD CENTER LINE AND EDGE OF CARRIAGEWAY
- EXISTING FENCE
- INDICATIVE QUARRY SITE
- INDICATIVE CLEANFILL SITE
- EXISTING CULVERT
- PROPOSED UPGRADED CULVERT
- STREAM (WRC REGIONAL MAP)

A | ADDITIONAL PLAN FOR S92 RESPONSE | LT | 04.10.18

REV: DESCRIPTION: BY: DATE:  
 STATUS: **RESOURCE CONSENT**

**TEKTUS** Consultants Ltd  
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 www.tektus.nz

CLIENT: VENTUS ENERGY (NZ) LTD  
 10/215 ROSEDALE ROAD, ALBANY  
 AUCKLAND 0632

SURVEYOR: SYNERGY POSITIONING SYSTEMS LTD  
 3/52 ARRENWAY DRIVE, ALBANY,  
 AUCKLAND 0632

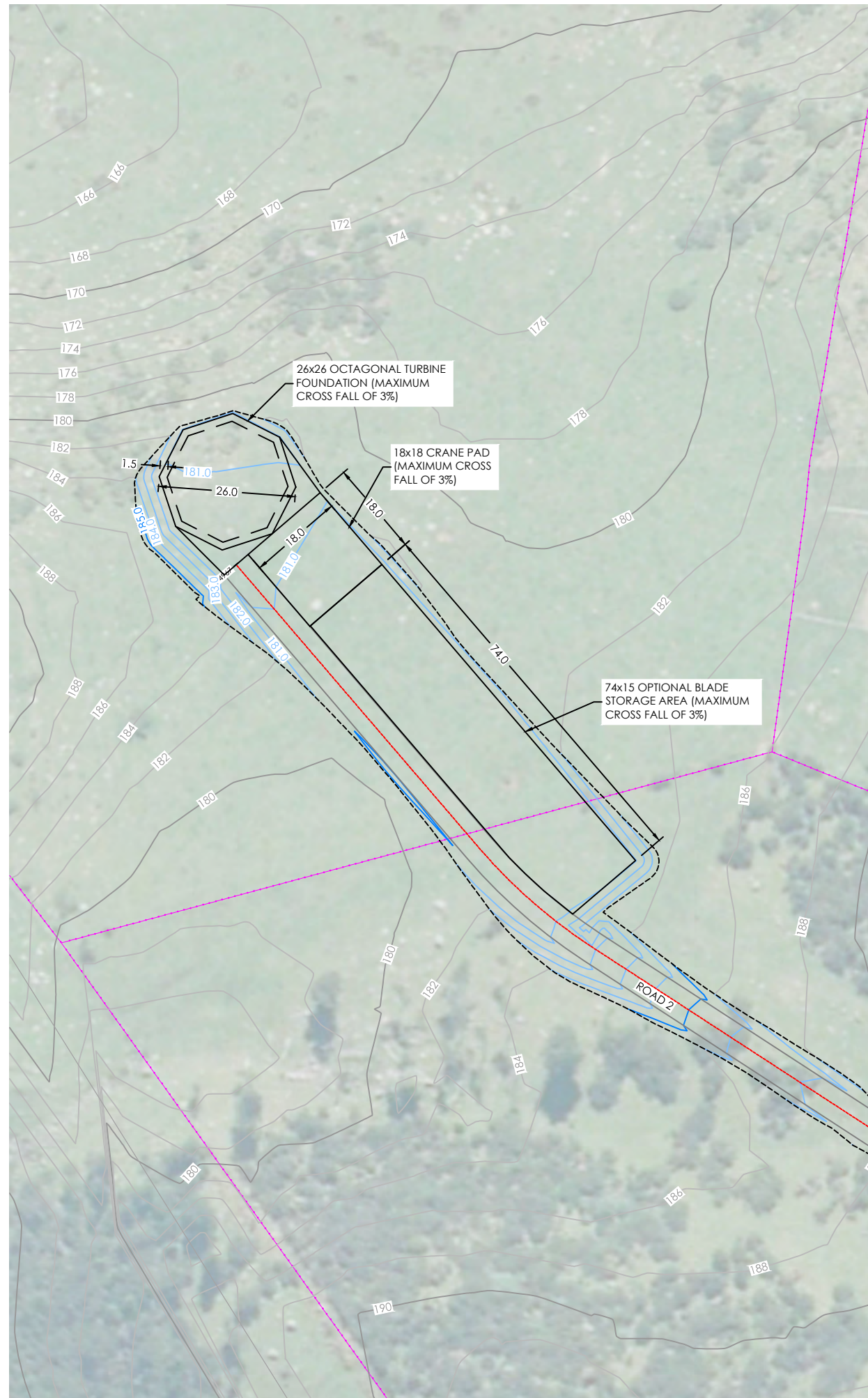
SITE: KAIMAI WIND FARM  
 ROTOKOHU ROAD, PAEROA

TITLE: PRELIMINARY CIVIL ENGINEERING  
 DRAWINGS

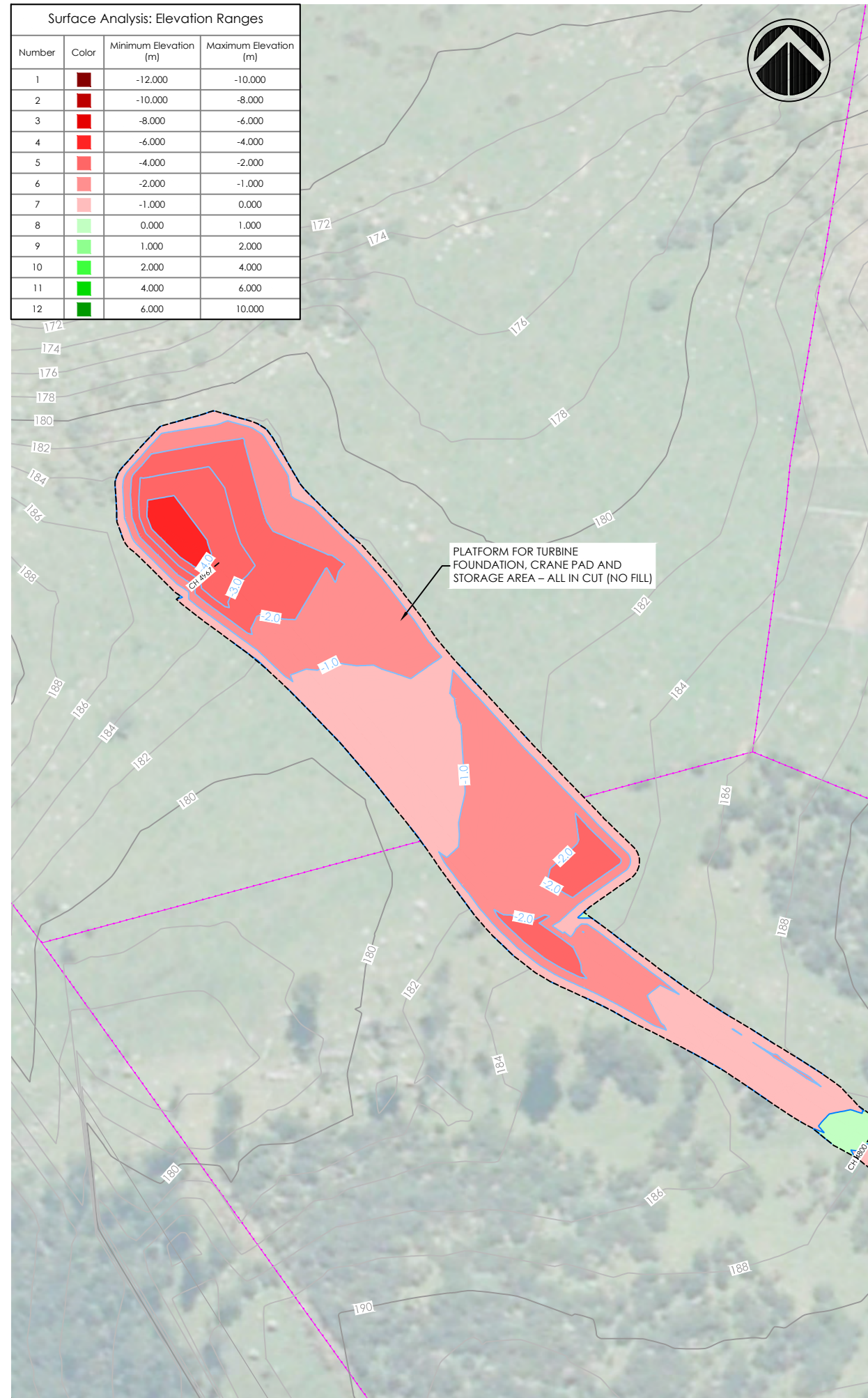
SUBTITLE: GENERAL ARRANGEMENT PLAN  
 DETAIL PLAN SHEET 9

SCALE AT A3: 1:2500	DATE: 04.10.18	DRAWN: LT	CHECKED: JT
PROJECT NO: T15022	DRAWING NO: 200-9	REVISION: A	





Surface Analysis: Elevation Ranges			
Number	Color	Minimum Elevation (m)	Maximum Elevation (m)
1	Dark Red	-12.000	-10.000
2	Red	-10.000	-8.000
3	Light Red	-8.000	-6.000
4	Very Light Red	-6.000	-4.000
5	Light Pink	-4.000	-2.000
6	Very Light Pink	-2.000	-1.000
7	Lightest Pink	-1.000	0.000
8	Light Green	0.000	1.000
9	Lighter Green	1.000	2.000
10	Lightest Green	2.000	4.000
11	Yellow-Green	4.000	6.000
12	Yellow	6.000	10.000



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- STREAM (WRC REGIONAL MAP)

B	S92 RESPONSE UPDATE	LT	18.10.18
A	RESOURCE CONSENT	JT	15.06.18

REV: DESCRIPTION: BY: DATE:  
 STATUS: **RESOURCE CONSENT**

TEKTUS Consultants Ltd  
 PO Box 80212 Green Bay  
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**CLIENT:** VENTUS ENERGY (NZ) LTD  
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 AUCKLAND 0632

**SURVEYOR:** SYNERGY POSITIONING SYSTEMS LTD  
 3/52 ARRENWAY DRIVE, ALBANY,  
 AUCKLAND 0632

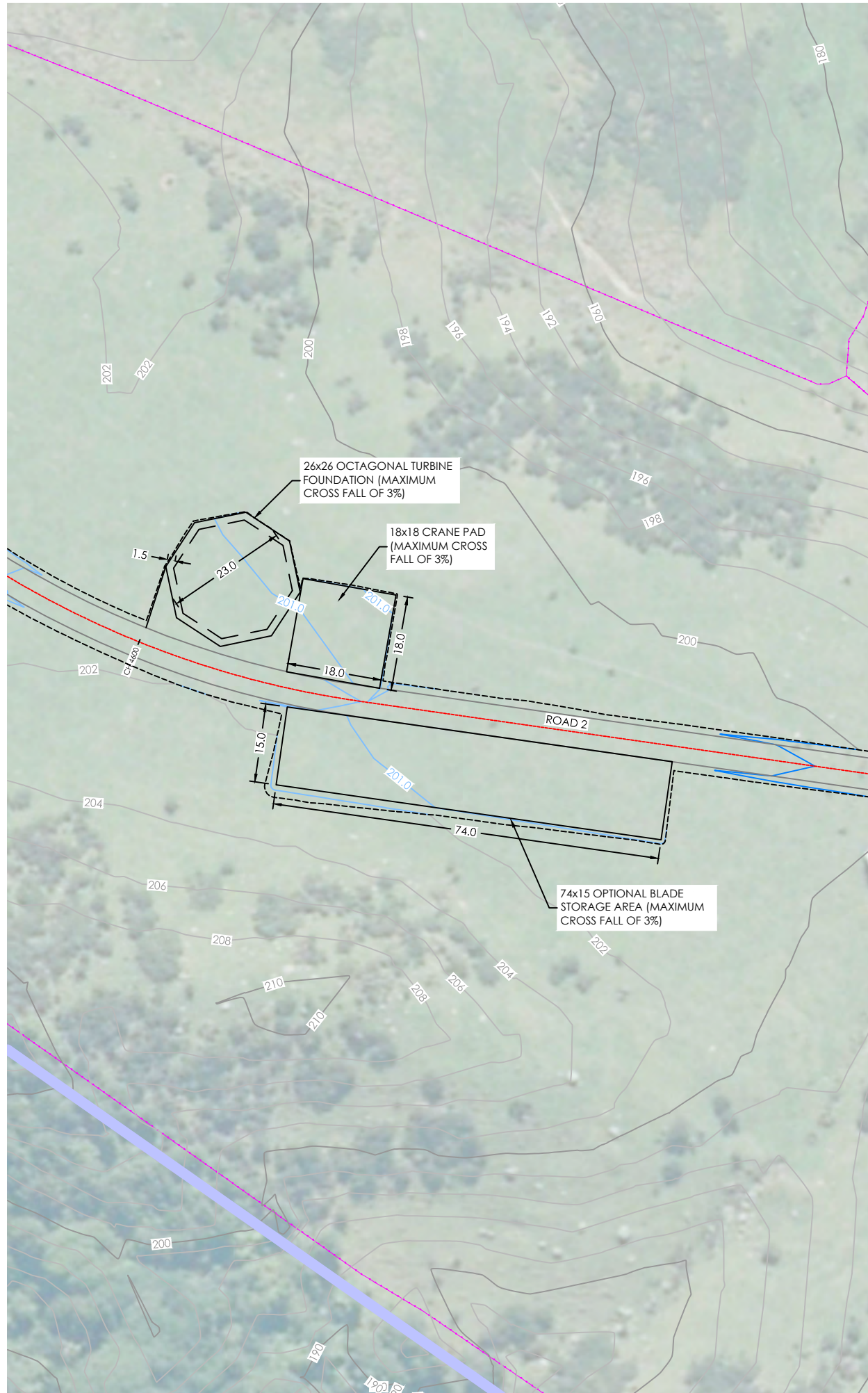
**SITE:** KAIMAI WIND FARM  
 ROTOKOHU ROAD, PAEROA

**TITLE:** PRELIMINARY CIVIL ENGINEERING  
 DRAWINGS

**SUBTITLE:** PROPOSED TURBINE PLATFORM  
 FOR TURBINE NO.1

<b>SCALE AT A3:</b> 1:1000	<b>DATE:</b> 15.06.18	<b>DRAWN:</b> JT	<b>CHECKED:</b> JT
<b>PROJECT NO:</b> T15022	<b>DRAWING NO:</b> 210-01	<b>REVISION:</b> B	





Surface Analysis: Elevation Ranges			
Number	Color	Minimum Elevation (m)	Maximum Elevation (m)
1	Dark Red	-12.000	-10.000
2	Red	-10.000	-8.000
3	Red-Orange	-8.000	-6.000
4	Orange	-6.000	-4.000
5	Light Orange	-4.000	-2.000
6	Light Red	-2.000	-1.000
7	Light Pink	-1.000	0.000
8	Light Green	0.000	1.000
9	Light Green	1.000	2.000
10	Light Green	2.000	4.000
11	Light Green	4.000	6.000
12	Dark Green	6.000	10.000



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- ⊥ PROPOSED TURBINE LOCATION
- EXISTING TRANSPOWER NATIONAL GRID LINES
- PROPOSED ROAD CENTER LINE AND EDGE OF CARRIAGEWAY
- EXISTING FENCE
- ⊗ INDICATIVE QUARRY SITE
- ⊙ INDICATIVE CLEANFILL SITE
- EXISTING CULVERT
- PROPOSED UPGRADED CULVERT
- STREAM (WRC REGIONAL MAP)

B	S92 RESPONSE UPDATE	LT	18.10.18
A	RESOURCE CONSENT	JT	15.06.18

REV:	DESCRIPTION:	BY:	DATE:
STATUS:		<b>RESOURCE CONSENT</b>	

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 10/215 ROSEDALE ROAD, ALBANY  
 AUCKLAND 0632

SURVEYOR: SYNERGY POSITIONING SYSTEMS LTD  
 3/52 ARRENWAY DRIVE, ALBANY,  
 AUCKLAND 0632

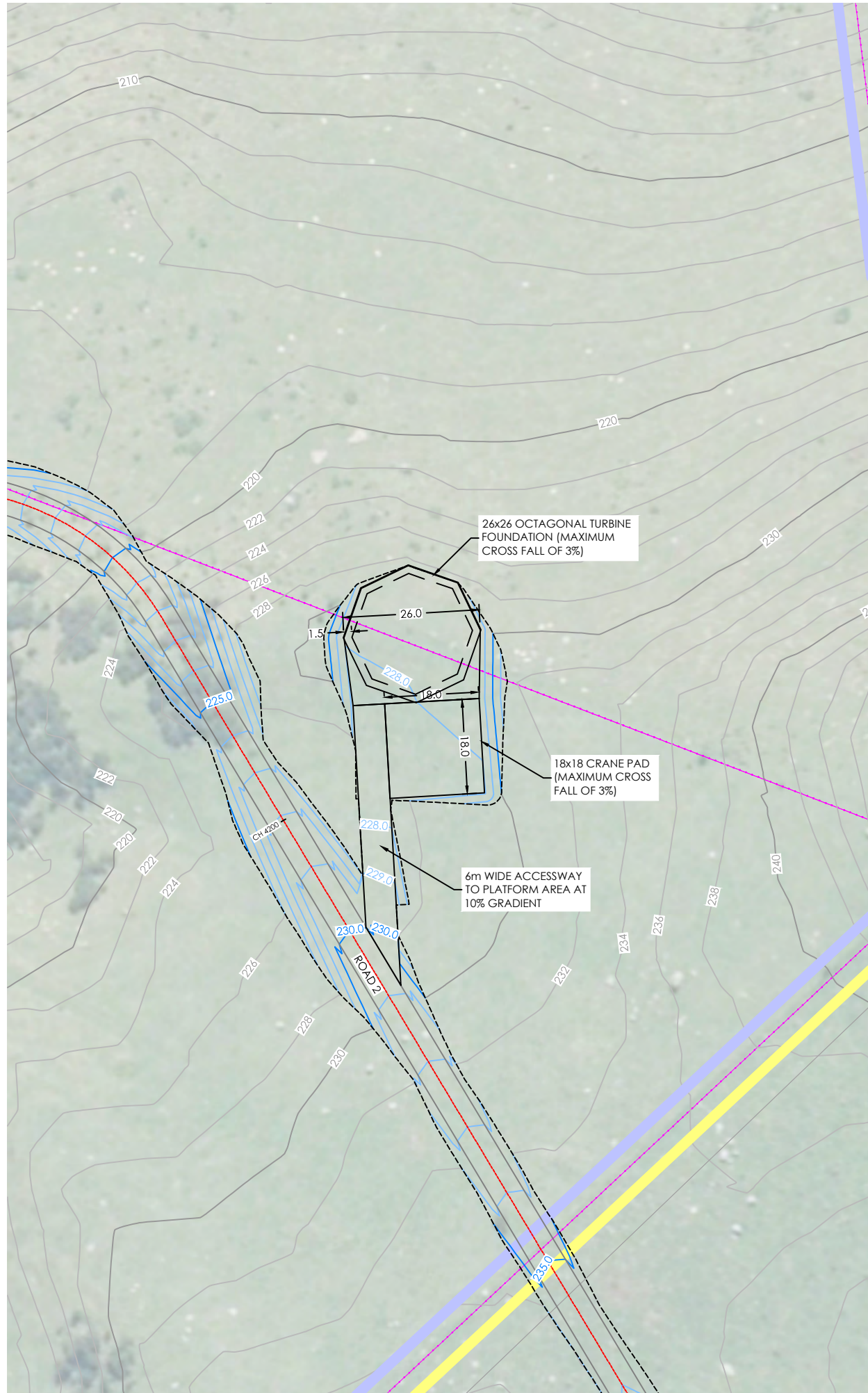
SITE: KAIMAI WIND FARM  
 ROTOKOHU ROAD, PAEROA

TITLE: PRELIMINARY CIVIL ENGINEERING  
 DRAWINGS

SUBTITLE: PROPOSED TURBINE PLATFORM  
 FOR TURBINE NO.2

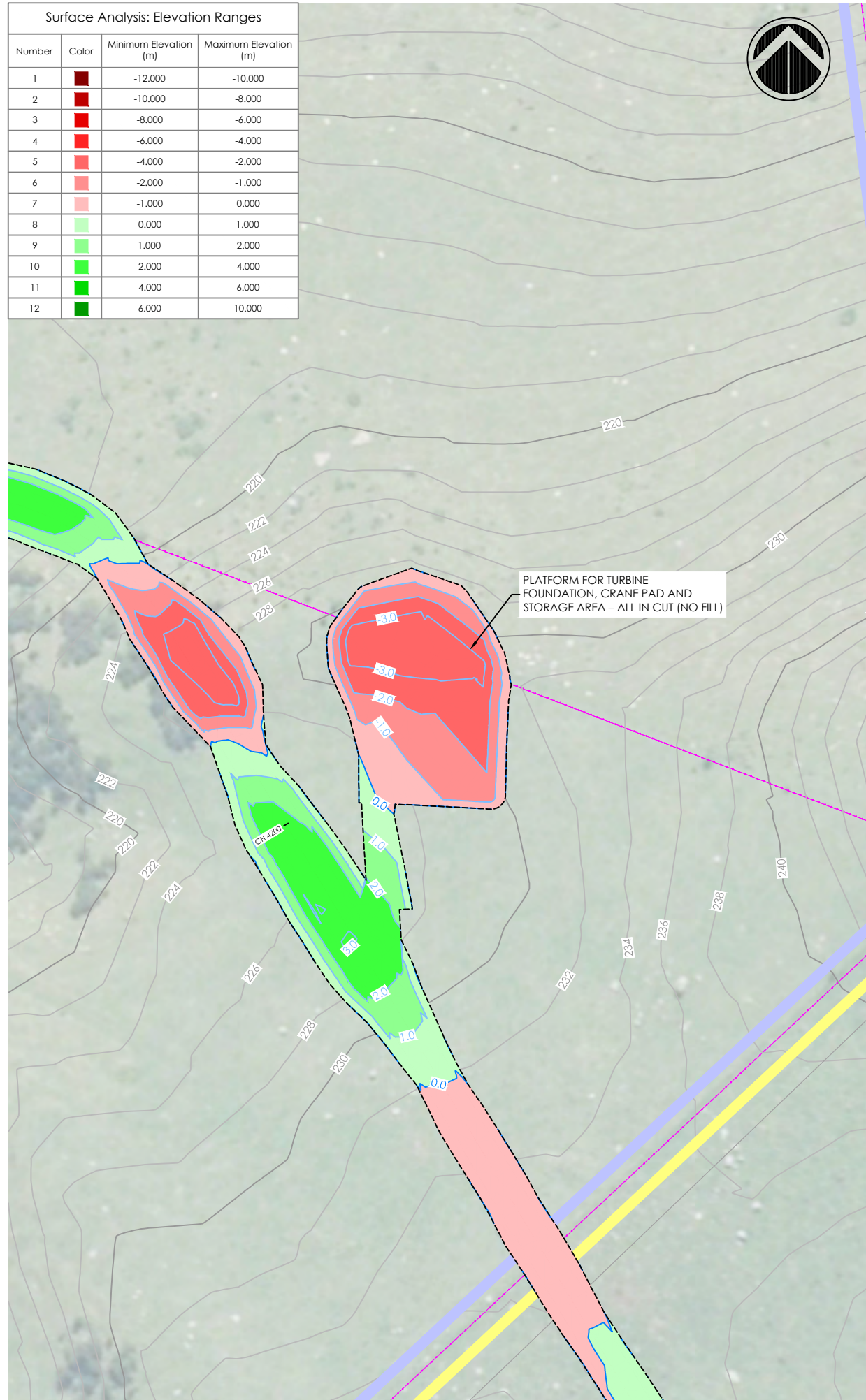
SCALE AT A3:	DATE:	DRAWN:	CHECKED:
1:1000	15.06.18	JT	JT
PROJECT NO:	DRAWING NO:	REVISION:	
T15022	210-02	B	





Surface Analysis: Elevation Ranges

Number	Color	Minimum Elevation (m)	Maximum Elevation (m)
1	Dark Red	-12.000	-10.000
2	Red	-10.000	-8.000
3	Red-Orange	-8.000	-6.000
4	Orange	-6.000	-4.000
5	Light Orange	-4.000	-2.000
6	Light Red	-2.000	-1.000
7	Light Pink	-1.000	0.000
8	Light Green	0.000	1.000
9	Light Green	1.000	2.000
10	Light Green	2.000	4.000
11	Light Green	4.000	6.000
12	Dark Green	6.000	10.000



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SURVEYOR: SYNERGY POSITIONING SYSTEMS LTD  
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 AUCKLAND 0632

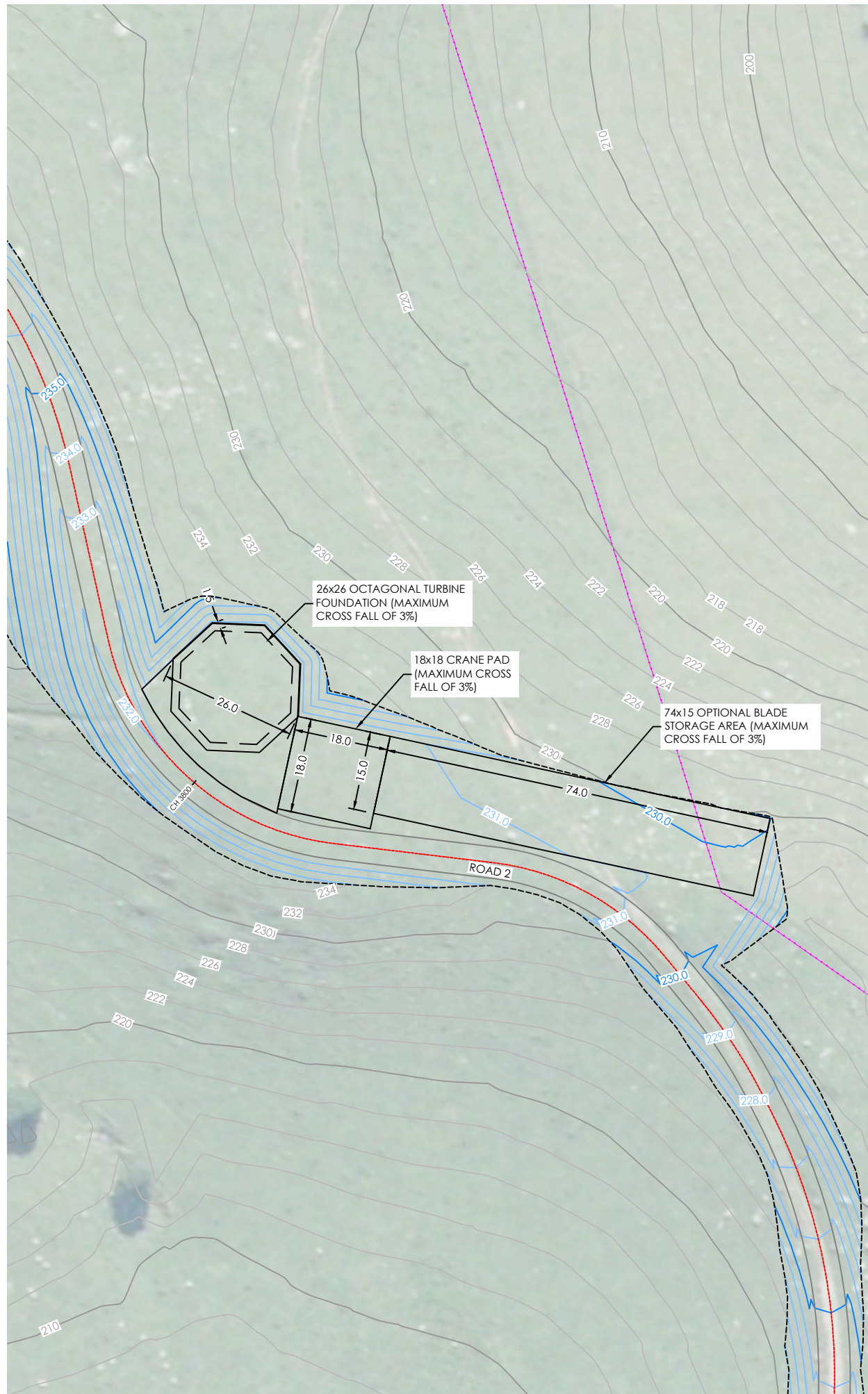
SITE: KAIMAI WIND FARM  
 ROTOKOHU ROAD, PAEROA

TITLE: PRELIMINARY CIVIL ENGINEERING  
 DRAWINGS

SUBTITLE: PROPOSED TURBINE PLATFORM  
 FOR TURBINE NO.3

SCALE AT A3:	DATE:	DRAWN:	CHECKED:
1:1000	15.06.18	JT	JT
PROJECT NO:	DRAWING NO:	REVISION:	
T15022	210-03	B	





Surface Analysis: Elevation Ranges

Number	Color	Minimum Elevation (m)	Maximum Elevation (m)
1	Dark Red	-12.000	-10.000
2	Red	-10.000	-8.000
3	Light Red	-8.000	-6.000
4	Very Light Red	-6.000	-4.000
5	Light Pink	-4.000	-2.000
6	Very Light Pink	-2.000	-1.000
7	Light Red	-1.000	0.000
8	Light Green	0.000	1.000
9	Light Green	1.000	2.000
10	Light Green	2.000	4.000
11	Light Green	4.000	6.000
12	Dark Green	6.000	10.000



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- EXISTING TRANSPOWER NATIONAL GRID LINES
- PROPOSED ROAD CENTER LINE AND EDGE OF CARRIAGEWAY
- EXISTING FENCE
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- STREAM (WRC REGIONAL MAP)

B	S92 RESPONSE UPDATE	LT	18.10.18
A	RESOURCE CONSENT	JT	15.06.18

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SURVEYOR: SYNERGY POSITIONING SYSTEMS LTD  
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 AUCKLAND 0632

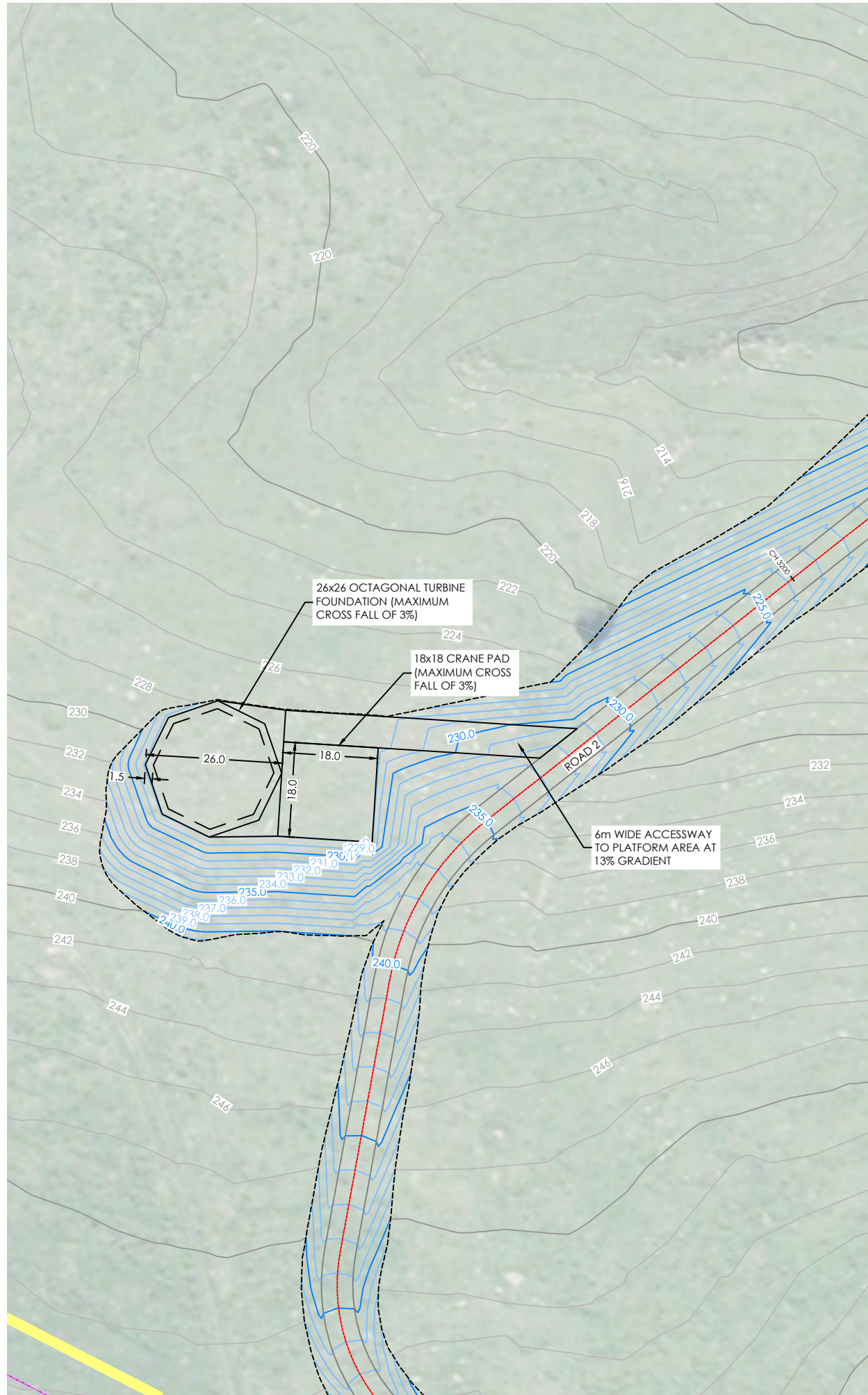
SITE: KAIMAI WIND FARM  
 ROTOKOHU ROAD, PAEROA

TITLE: PRELIMINARY CIVIL ENGINEERING  
 DRAWINGS

SUBTITLE: PROPOSED TURBINE PLATFORM  
 FOR TURBINE NO.4

SCALE AT A3:	DATE:	DRAWN:	CHECKED:
1:1000	15.06.18	JT	JT
PROJECT NO:	DRAWING NO:	REVISION:	
T15022	210-04	B	





Surface Analysis: Elevation Ranges

Number	Color	Minimum Elevation (m)	Maximum Elevation (m)
1	Dark Red	-12.000	-10.000
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7	Light Pink	-1.000	0.000
8	Light Green	0.000	1.000
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11	Light Green	4.000	6.000
12	Dark Green	6.000	10.000



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3. COORDINATES SHOWN ARE IN TERMS OF MT EDEN 2000 CIRCUIT AND LEVELS ARE RELATIVE TO THE AUCKLAND 1946 VERTICAL DATUM.
4. THE PROPOSED ROAD ALIGNMENT, TURBINE PLATFORMS, AND OVERALL EARTHWORKS ARE BASED ON AN INDICATIVE ROAD ALIGNMENT AND REMAIN SUBJECT TO DETAILED DESIGN.
5. VOLUME ESTIMATES BASED ON COMPARISON OF EXISTING & PROPOSED SURFACE LEVELS & DO NOT ACCOUNT FOR SUBGRADE CUT, BULKING OR COMPACTION FACTORS. OVERALL AREA & VOLUME ESTIMATES INCLUDE 20% CONTINGENCY FOR ADDITIONAL EARTHWORKS IF NECESSARY THROUGH DETAILED DESIGN.

LEGEND

- EXISTING PARCEL BOUNDARY
- JACKSON PROPERTY BOUNDARY
- ROTOKOHU FARMS PROPERTY BOUNDARY
- DENIZE BROTHERS PROPERTY BOUNDARY
- HDC/MPDC TERRITORIAL BOUNDARY
- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- PROPOSED MAJOR CONTOUR
- PROPOSED MINOR CONTOUR
- EXTENT OF EARTHWORK
- PROPOSED TURBINE LOCATION
- EXISTING TRANSPOWER NATIONAL GRID LINES
- PROPOSED ROAD CENTER LINE AND EDGE OF CARRIAGEWAY
- EXISTING FENCE
- INDICATIVE QUARRY SITE
- INDICATIVE CLEANFILL SITE
- EXISTING CULVERT
- PROPOSED UPGRADED CULVERT
- STREAM (WRC REGIONAL MAP)

B	S92 RESPONSE UPDATE	LT	18.10.18
A	RESOURCE CONSENT	JT	15.06.18
REV:	DESCRIPTION:	BY:	DATE:
STATUS:		<b>RESOURCE CONSENT</b>	

TEKTUS Consultants Ltd  
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CLIENT: VENTUS ENERGY (NZ) LTD  
 10/215 ROSEDALE ROAD, ALBANY  
 AUCKLAND 0632

SURVEYOR: SYNERGY POSITIONING SYSTEMS LTD  
 3/52 ARRENWAY DRIVE, ALBANY,  
 AUCKLAND 0632

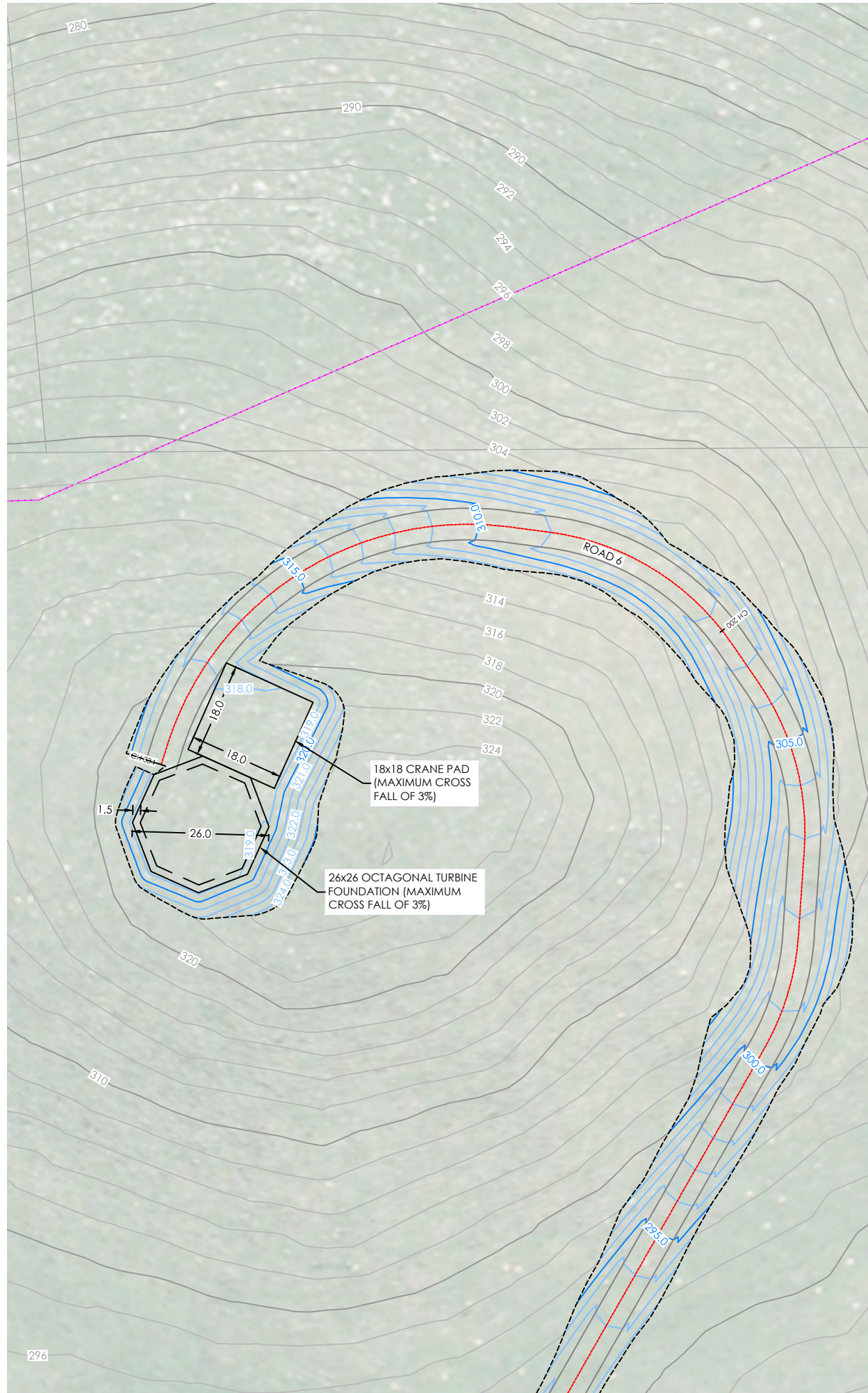
SITE: KAIMAI WIND FARM  
 ROTOKOHU ROAD, PAEROA

TITLE: PRELIMINARY CIVIL ENGINEERING  
 DRAWINGS

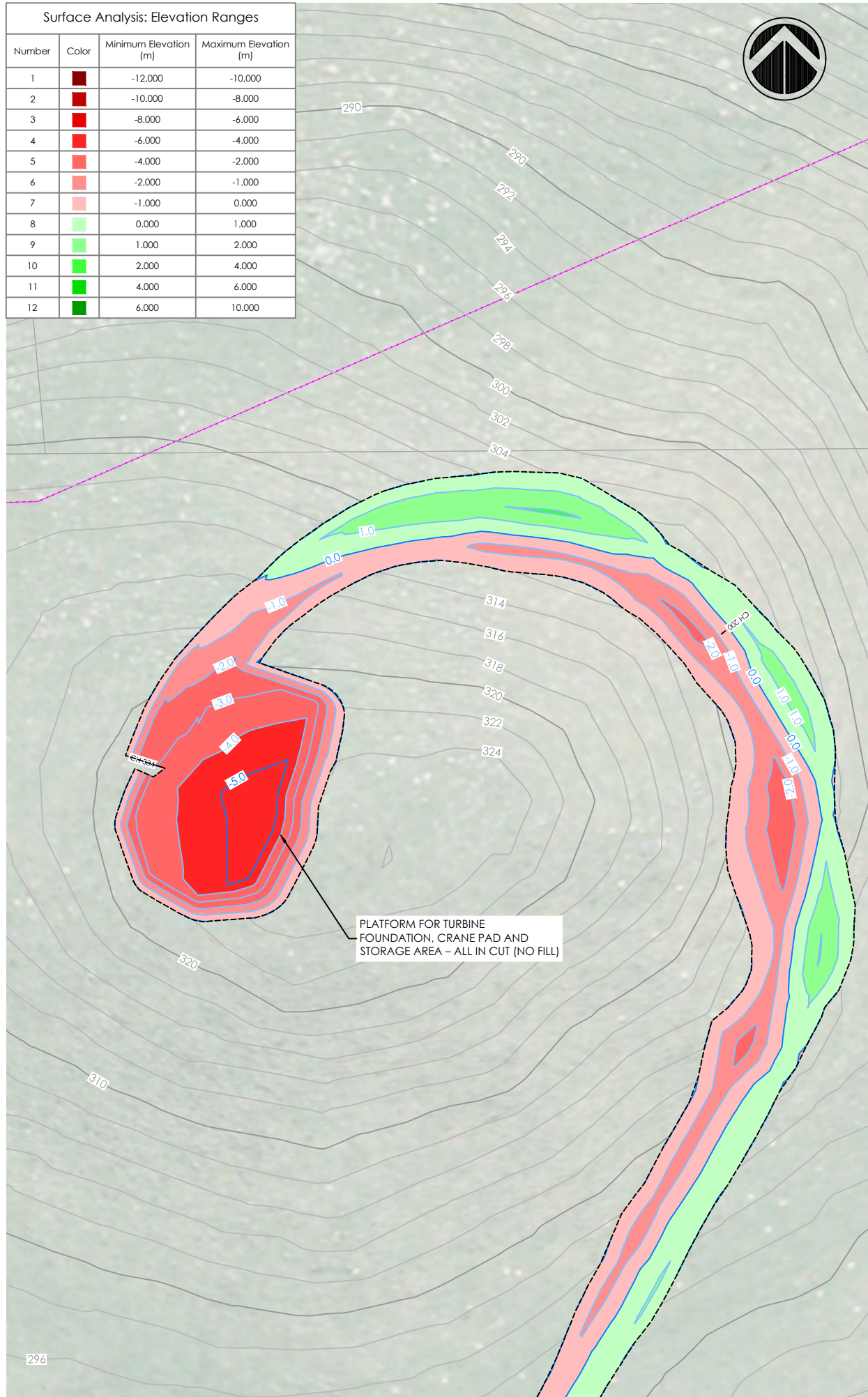
SUBTITLE: PROPOSED TURBINE PLATFORM  
 FOR TURBINE NO.5

SCALE AT A3:	DATE:	DRAWN:	CHECKED:
1:1000	15.06.18	JT	JT
PROJECT NO:	DRAWING NO:	REVISION:	
T15022	210-05	B	





Surface Analysis: Elevation Ranges			
Number	Color	Minimum Elevation (m)	Maximum Elevation (m)
1	Dark Red	-12.000	-10.000
2	Red	-10.000	-8.000
3	Red-Orange	-8.000	-6.000
4	Orange	-6.000	-4.000
5	Light Orange	-4.000	-2.000
6	Pink	-2.000	-1.000
7	Light Pink	-1.000	0.000
8	Light Green	0.000	1.000
9	Green	1.000	2.000
10	Light Green	2.000	4.000
11	Green	4.000	6.000
12	Dark Green	6.000	10.000



**Notes:**

- FOR INFORMATION PURPOSES ONLY.
- BOUNDARIES, CONTOURS AND OTHER BASE INFORMATION SHOWN IS INDICATIVE ONLY AND PRIMARILY INFORMED BY AERIAL LIDAR SURVEY BY SYNERGY POSITIONING SYSTEMS LTD IN APRIL 2016.
- COORDINATES SHOWN ARE IN TERMS OF MT EDEN 2000 CIRCUIT AND LEVELS ARE RELATIVE TO THE AUCKLAND 1946 VERTICAL DATUM.
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**LEGEND**

- EXISTING PARCEL BOUNDARY
- JACKSON PROPERTY BOUNDARY
- ROTOKOHU FARMS PROPERTY BOUNDARY
- DENIZE BROTHERS PROPERTY BOUNDARY
- HDC/MPDC TERRITORIAL BOUNDARY
- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- PROPOSED MAJOR CONTOUR
- PROPOSED MINOR CONTOUR
- - - EXTENT OF EARTHWORK
- ⊥ PROPOSED TURBINE LOCATION
- EXISTING TRANSPOWER NATIONAL GRID LINES
- PROPOSED ROAD CENTER LINE AND EDGE OF CARRIAGEWAY
- EXISTING FENCE
- ⊙ INDICATIVE QUARRY SITE
- ⊙ INDICATIVE CLEANFILL SITE
- EXISTING CULVERT
- PROPOSED UPGRADED CULVERT
- STREAM (WRC REGIONAL MAP)

B	S92 RESPONSE UPDATE	LT	18.10.18
A	RESOURCE CONSENT	JT	15.06.18

REV:	DESCRIPTION:	BY:	DATE:
STATUS:		<b>RESOURCE CONSENT</b>	

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 3/52 ARRENWAY DRIVE, ALBANY,  
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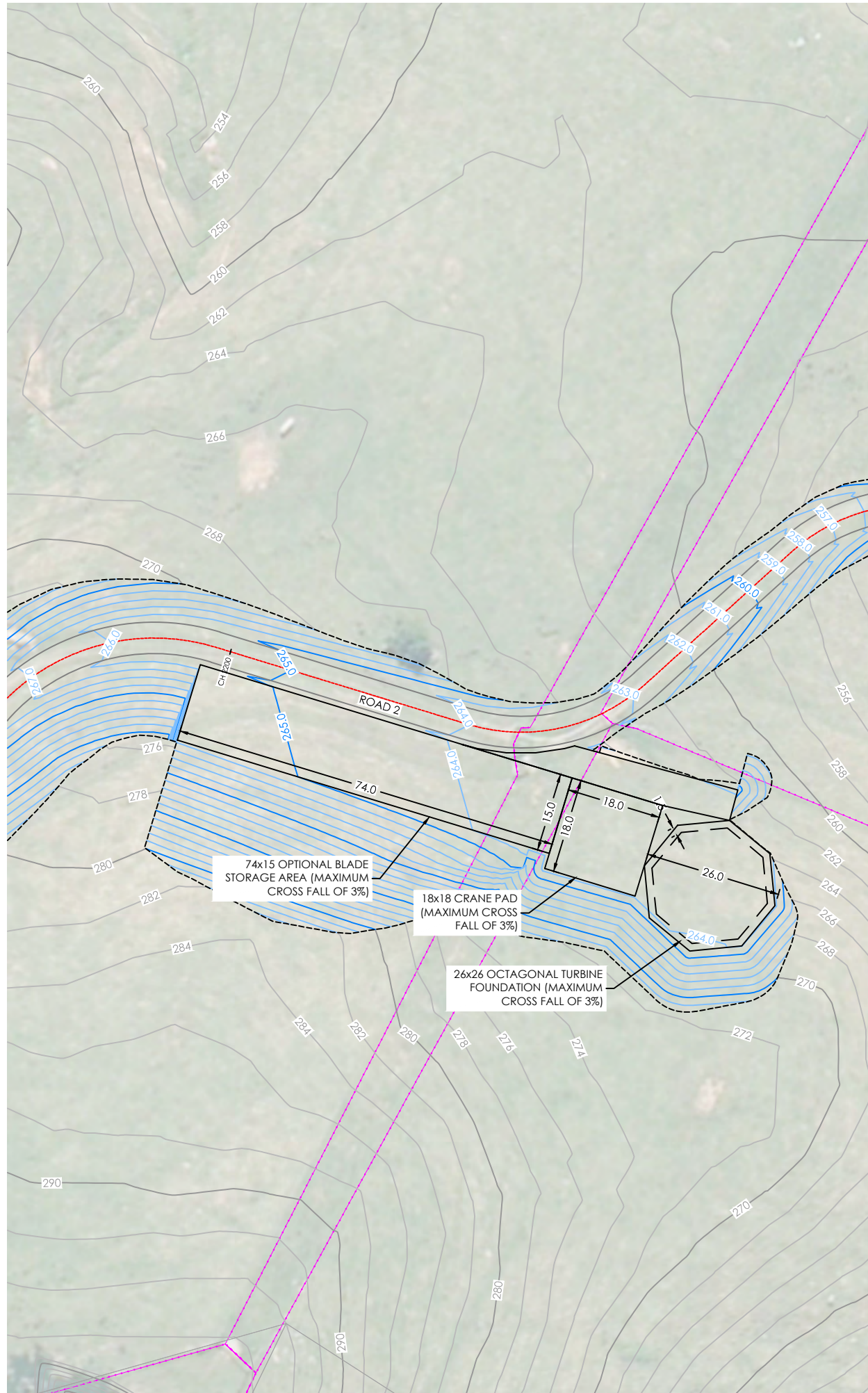
**SITE:** KAIMAI WIND FARM  
 ROTOKOHU ROAD, PAEROA

**TITLE:** PRELIMINARY CIVIL ENGINEERING  
 DRAWINGS

**SUBTITLE:** PROPOSED TURBINE PLATFORM  
 FOR TURBINE NO.6

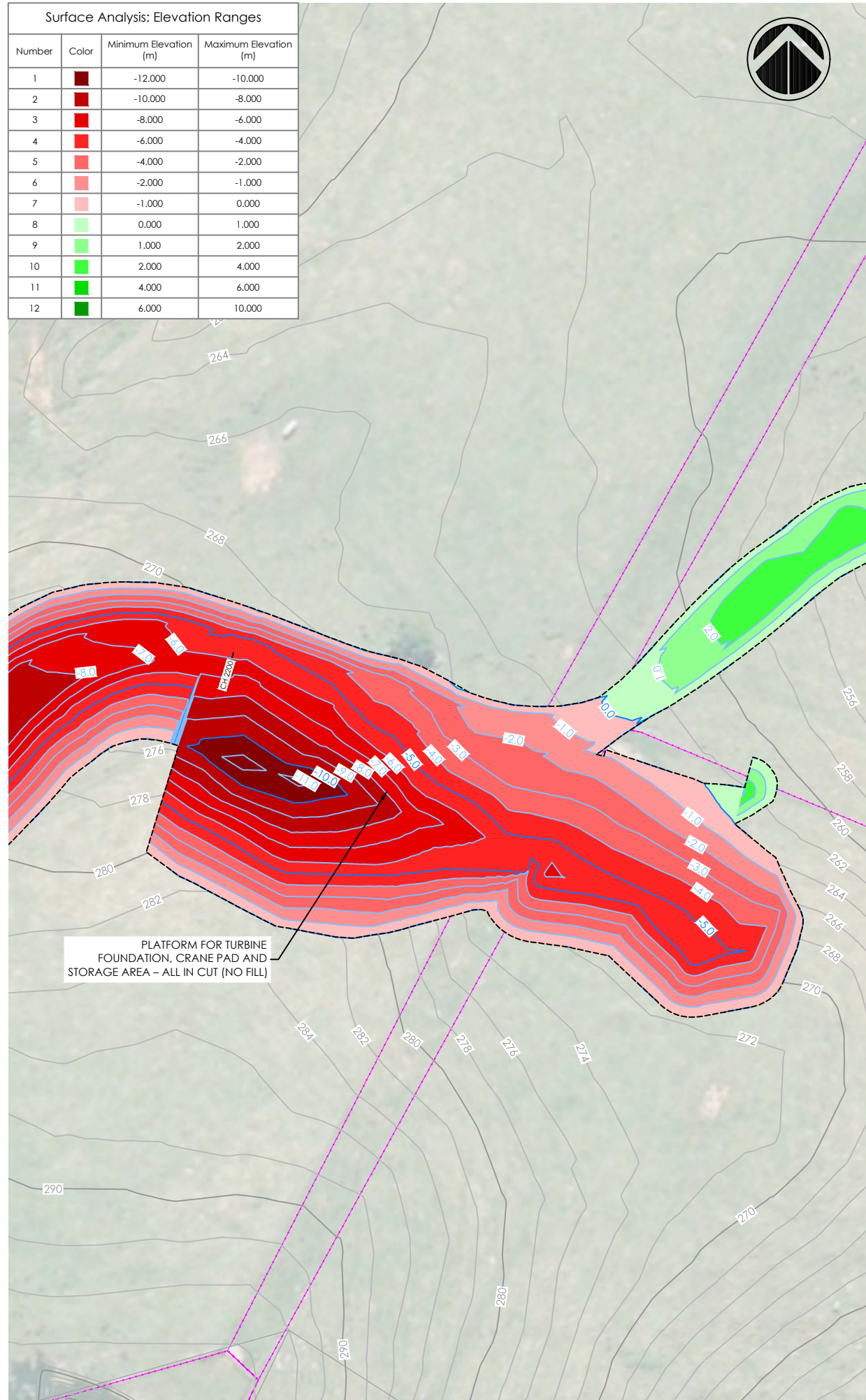
<b>SCALE AT A3:</b> 1:1000	<b>DATE:</b> 15.06.18	<b>DRAWN:</b> JT	<b>CHECKED:</b> JT
<b>PROJECT NO:</b> T15022	<b>DRAWING NO:</b> 210-06	<b>REVISION:</b> B	





Surface Analysis: Elevation Ranges

Number	Color	Minimum Elevation (m)	Maximum Elevation (m)
1	Dark Red	-12.000	-10.000
2	Red	-10.000	-8.000
3	Red-Orange	-8.000	-6.000
4	Orange	-6.000	-4.000
5	Light Orange	-4.000	-2.000
6	Pink	-2.000	-1.000
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11	Green	4.000	6.000
12	Dark Green	6.000	10.000



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**LEGEND**

- EXISTING PARCEL BOUNDARY
- JACKSON PROPERTY BOUNDARY
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- DENIZE BROTHERS PROPERTY BOUNDARY
- HDC/MPDC TERRITORIAL BOUNDARY
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B	S92 RESPONSE UPDATE	LT	18.10.18
A	RESOURCE CONSENT	JT	15.06.18

REV:	DESCRIPTION:	BY:	DATE:
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SURVEYOR:  
 SYNERGY POSITIONING SYSTEMS LTD  
 3/52 ARRENWAY DRIVE, ALBANY,  
 AUCKLAND 0632

SITE:  
 KAIMAI WIND FARM  
 ROTOKOHU ROAD, PAEROA

TITLE:  
 PRELIMINARY CIVIL ENGINEERING  
 DRAWINGS

SUBTITLE:  
 PROPOSED TURBINE PLATFORM  
 FOR TURBINE NO.7

SCALE AT A3:	DATE:	DRAWN:	CHECKED:
1:1000	15.06.18	JT	JT
PROJECT NO:	DRAWING NO:	REVISION:	
T15022	210-07	B	