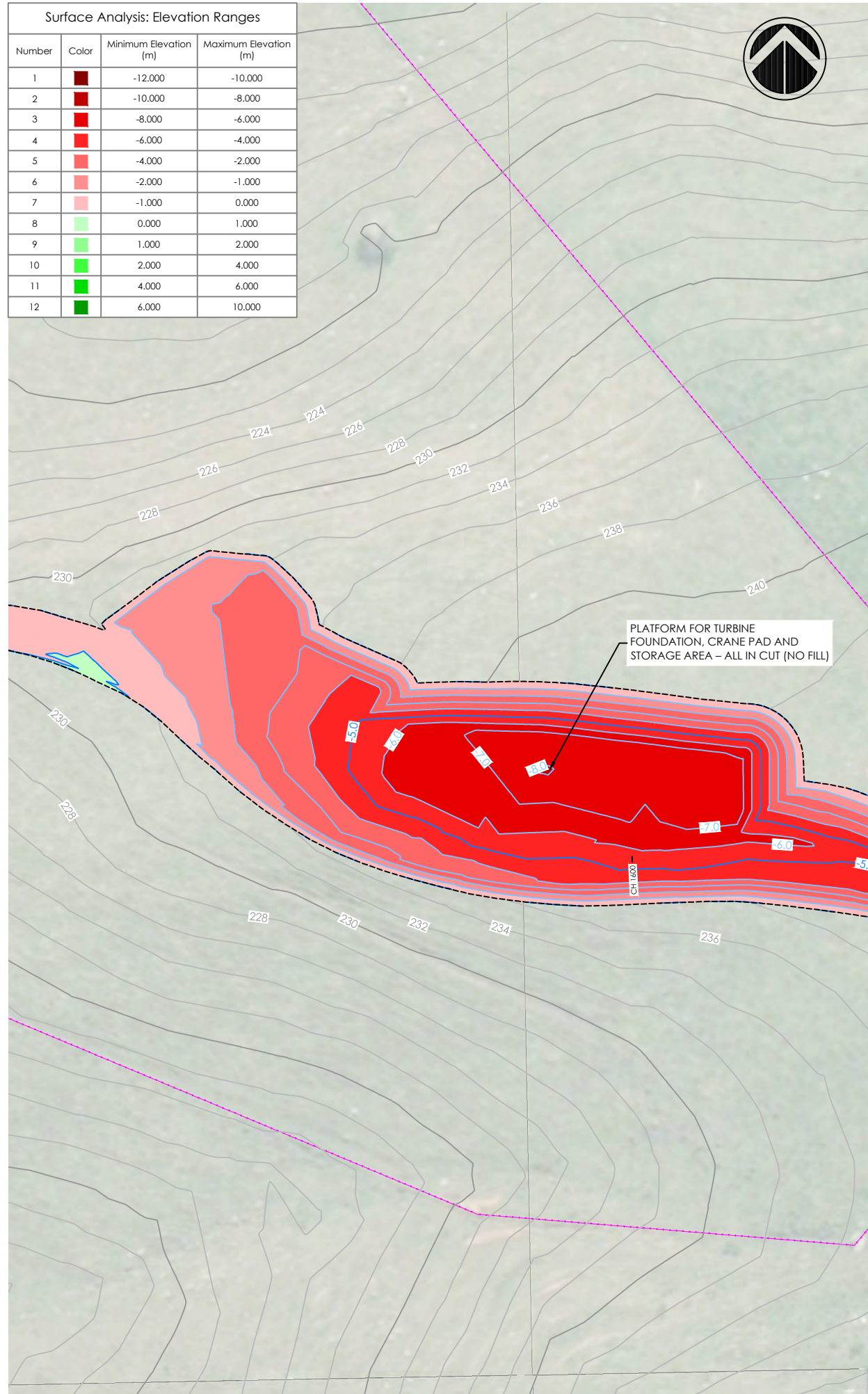


Surface Analysis: Elevation Ranges			
Number	Color	Minimum Elevation (m)	Maximum Elevation (m)
1	Dark Red	-12.000	-10.000
2	Red	-10.000	-8.000
3	Light Red	-8.000	-6.000
4	Very Light Red	-6.000	-4.000
5	Light Pink	-4.000	-2.000
6	Very Light Pink	-2.000	-1.000
7	Lightest Pink	-1.000	0.000
8	Lightest Green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



Notes:

1. FOR INFORMATION PURPOSES ONLY.
2. 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.
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: RESOURCE CONSENT			

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

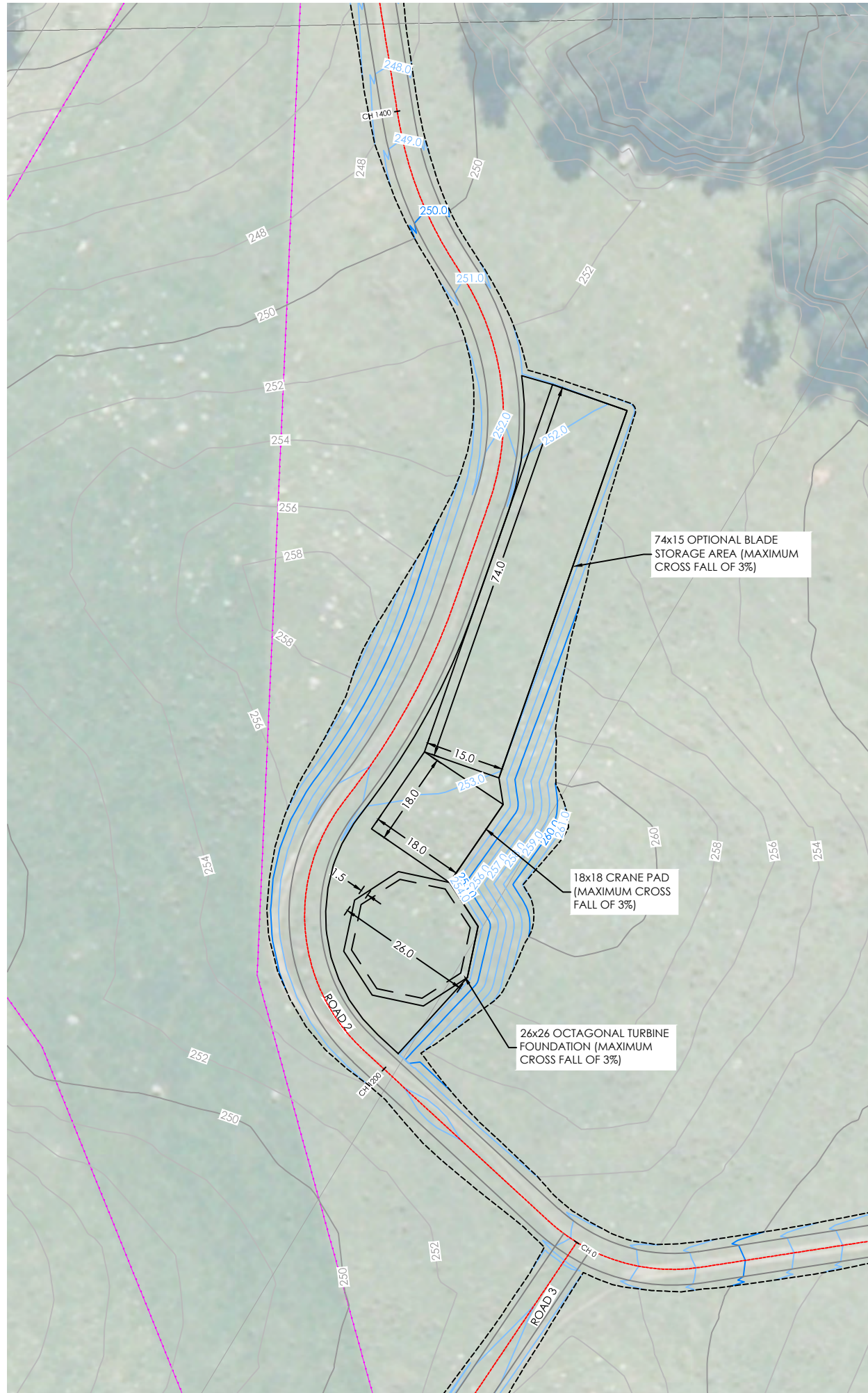
SURVEYOR:
 SYNERGY POSITIONING SYSTEMS LTD
 3/52 ARRENWAY DRIVE, ALBANY,
 AUCKLAND 0632

SITE:
 KAIMAI WIND FARM
 ROTOKOHU ROAD, PAEROA

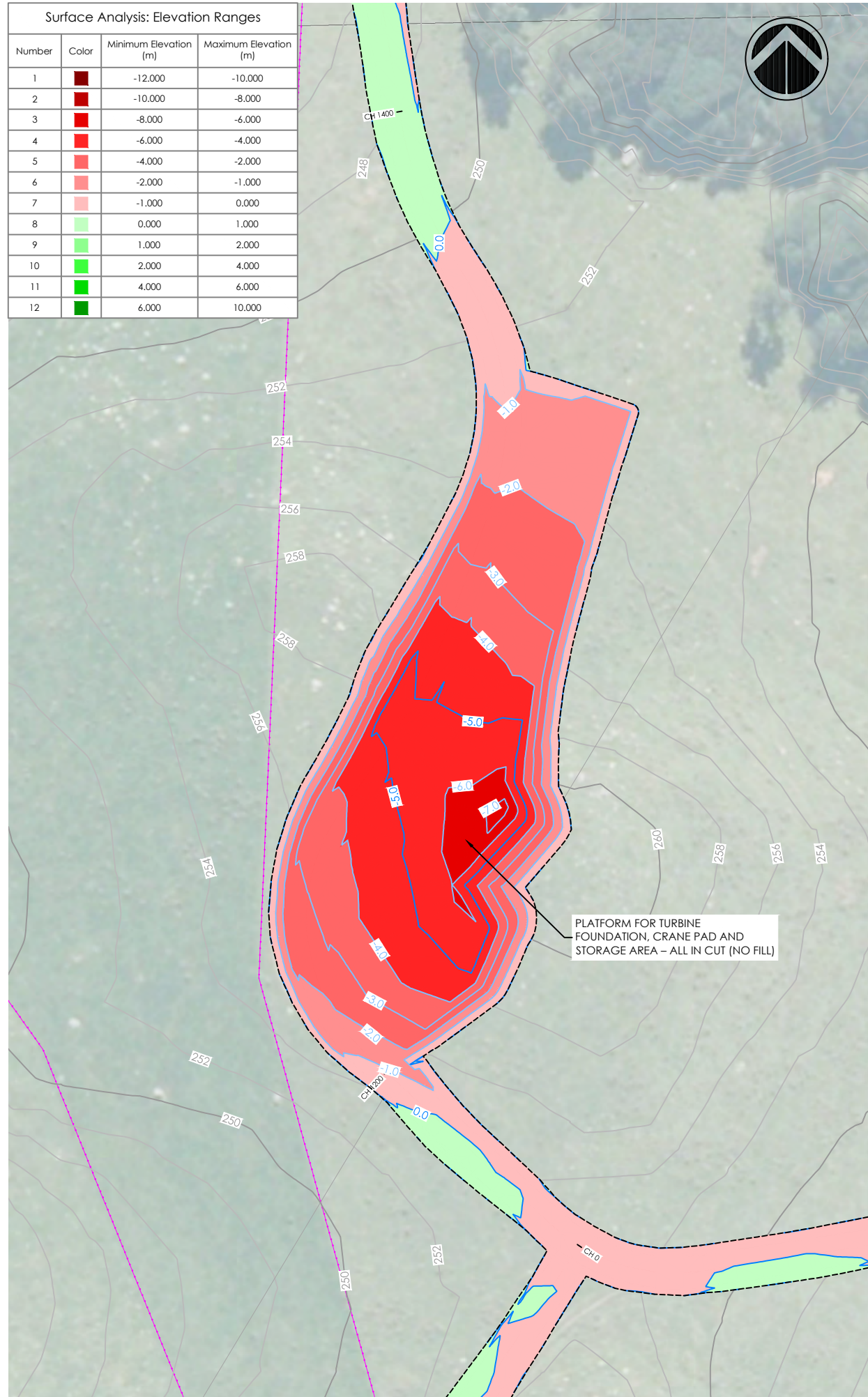
TITLE:
 PRELIMINARY CIVIL ENGINEERING
 DRAWINGS

SUBTITLE:
 PROPOSED TURBINE PLATFORM
 FOR TURBINE NO.8

SCALE AT A3:	DATE:	DRAWN:	CHECKED:
1:1000	15.06.18	JT	JT
PROJECT NO:	DRAWING NO:	REVISION:	
T15022	210-08	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	Dark Red	-8.000	-6.000
4	Red	-6.000	-4.000
5	Dark Red	-4.000	-2.000
6	Red	-2.000	-1.000
7	Light Red	-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:

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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.
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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:		RESOURCE CONSENT	

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 www.tektus.nz

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

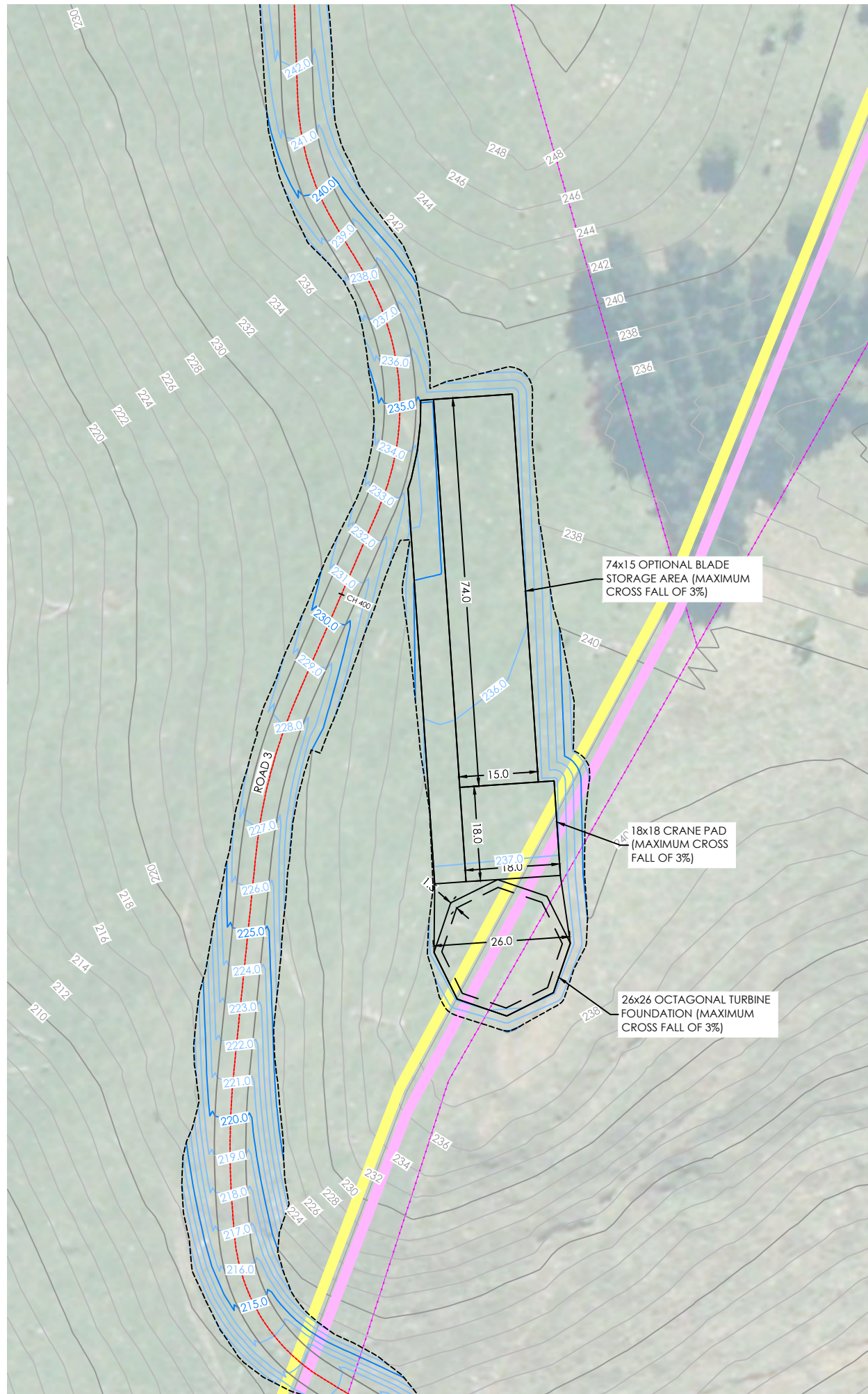
SURVEYOR: SYNERGY POSITIONING SYSTEMS LTD
 3/52 ARRENWAY DRIVE, ALBANY,
 AUCKLAND 0632

SITE: KAIMAI WIND FARM
 ROTOKOHU ROAD, PAEROA

TITLE: PRELIMINARY CIVIL ENGINEERING
 DRAWINGS

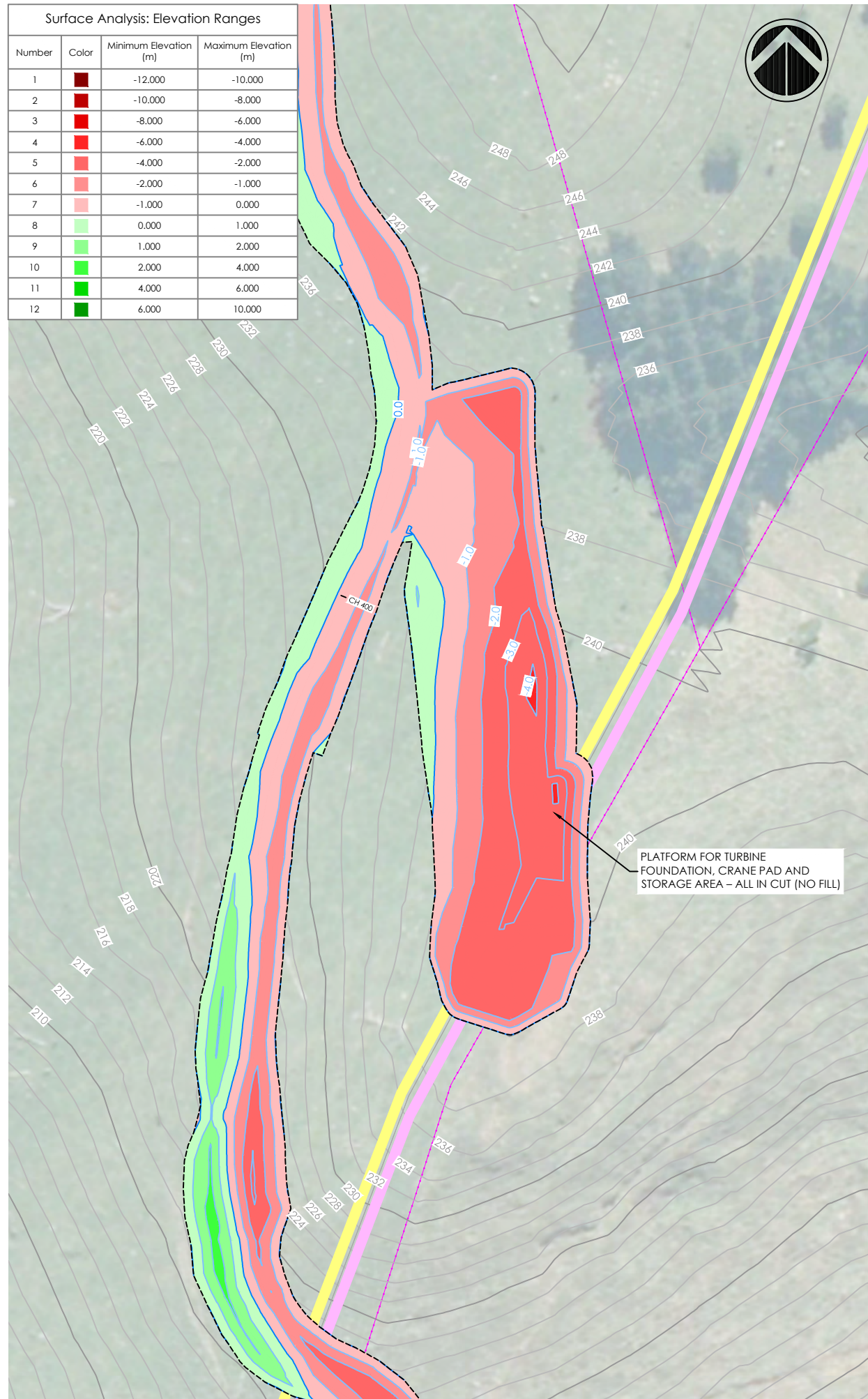
SUBTITLE: PROPOSED TURBINE PLATFORM
 FOR TURBINE NO.9

SCALE AT A3:	DATE:	DRAWN:	CHECKED:
1:1000	15.06.18	JT	JT
PROJECT NO:	DRAWING NO:	REVISION:	
T15022	210-09	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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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:		RESOURCE CONSENT	

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 AUCKLAND 0632

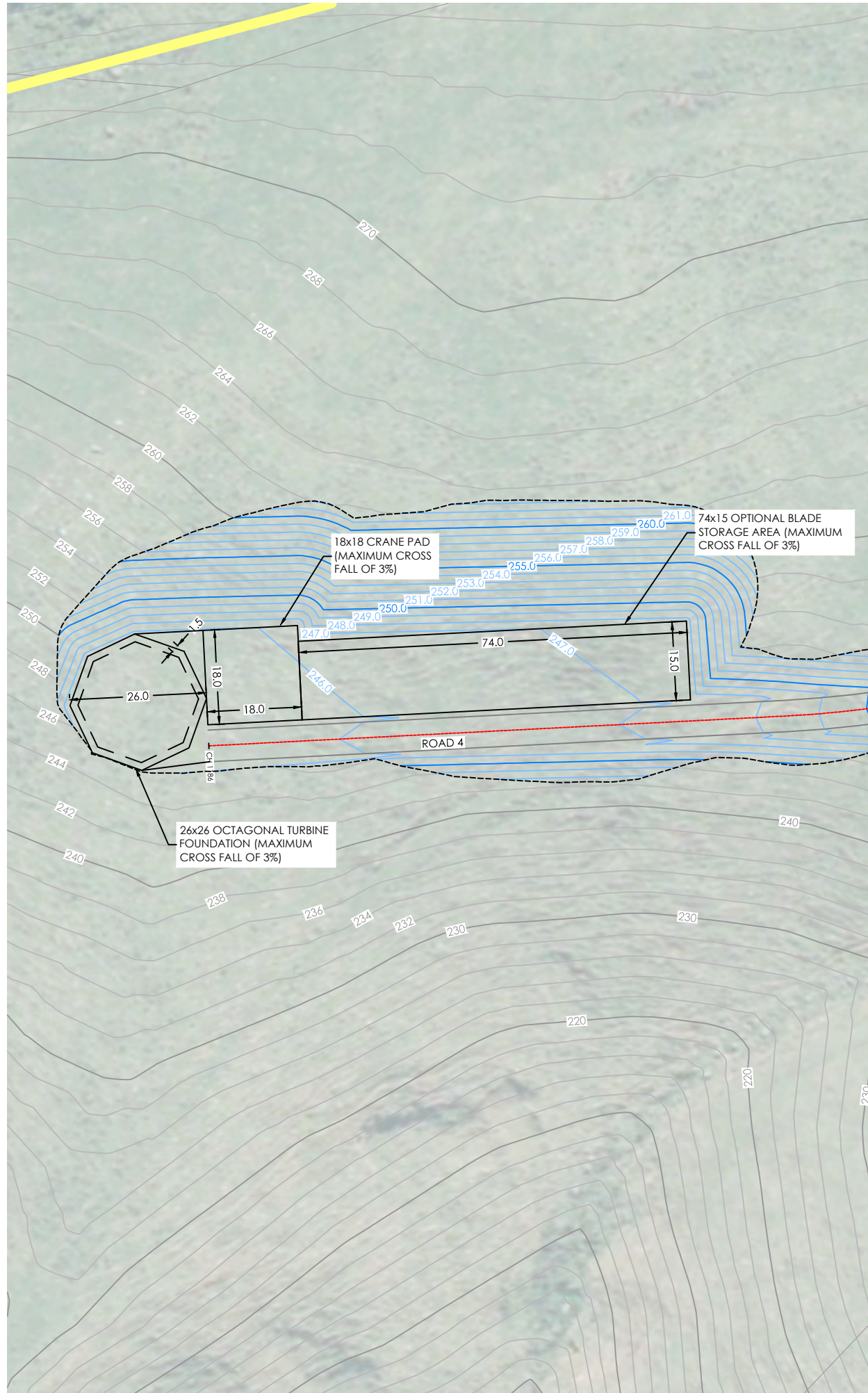
SURVEYOR:
 SYNERGY POSITIONING SYSTEMS LTD
 3/52 ARRENWAY DRIVE, ALBANY,
 AUCKLAND 0632

SITE:
 KAIMAI WIND FARM
 ROTOKOHU ROAD, PAEROA

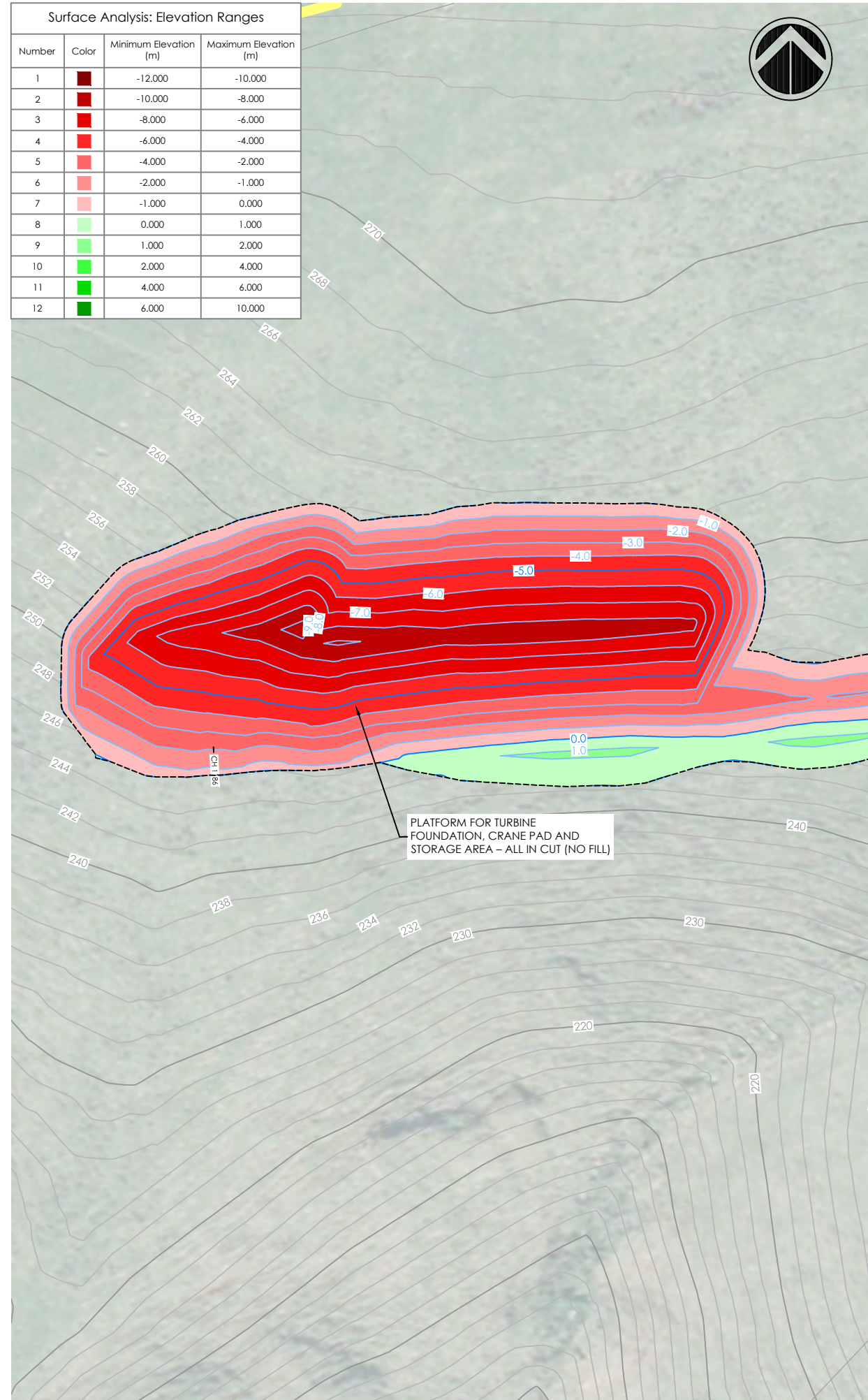
TITLE:
 PRELIMINARY CIVIL ENGINEERING
 DRAWINGS

SUBTITLE:
 PROPOSED TURBINE PLATFORM
 FOR TURBINE NO.10

SCALE AT A3: 1:1000	DATE: 15.06.18	DRAWN: JT	CHECKED: JT
PROJECT NO: T15022	DRAWING NO: 210-10	REVISION: 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	Lightest Pink	-1.000	0.000
8	Lightest Green	0.000	1.000
9	Light Green	1.000	2.000
10	Medium Green	2.000	4.000
11	Dark Green	4.000	6.000
12	Very Dark Green	6.000	10.000



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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:		RESOURCE CONSENT	

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 www.tektus.nz

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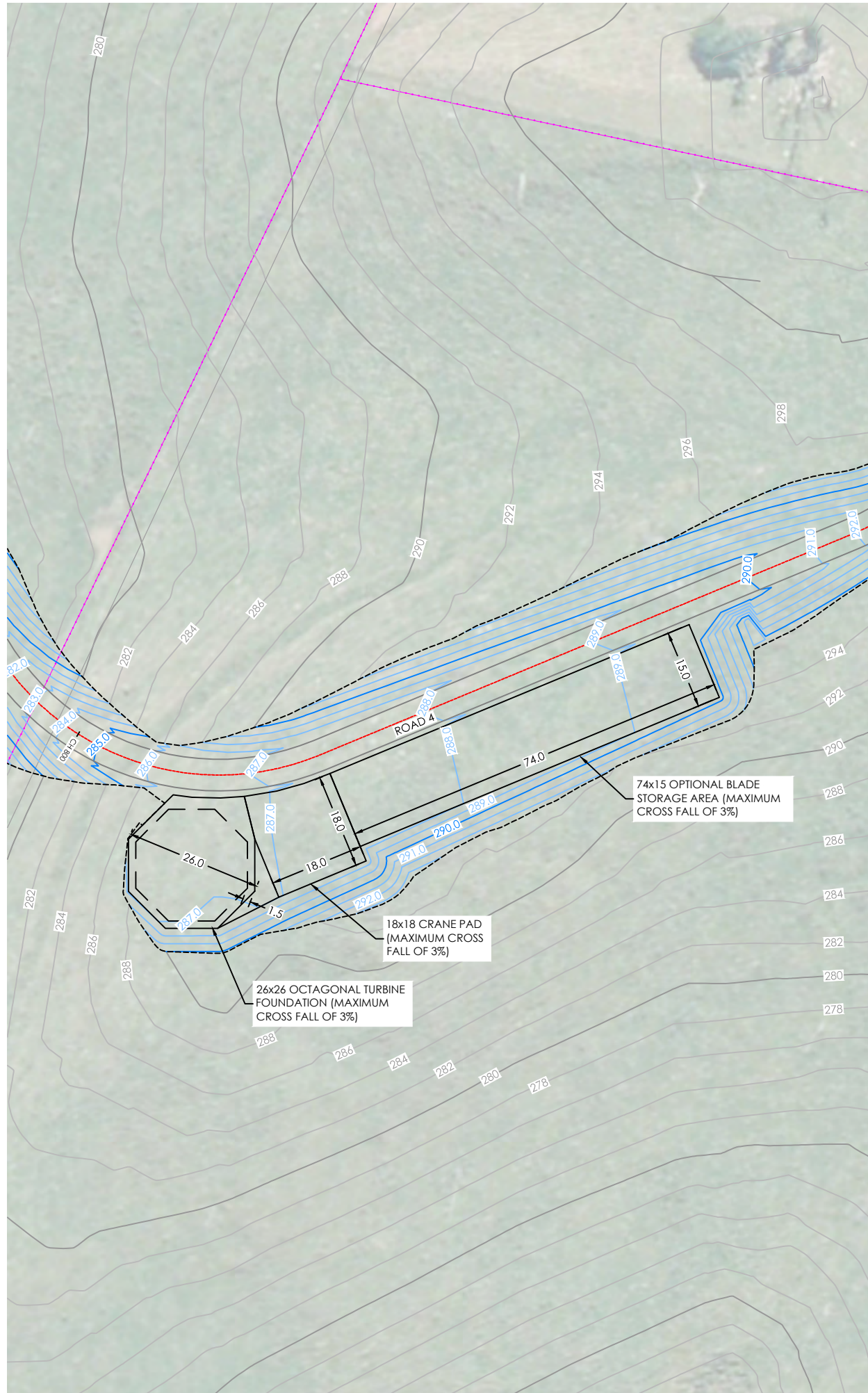
SURVEYOR:
 SYNERGY POSITIONING SYSTEMS LTD
 3/52 ARRENWAY DRIVE, ALBANY,
 AUCKLAND 0632

SITE:
 KAIMAI WIND FARM
 ROTOKOHU ROAD, PAEROA

TITLE:
 PRELIMINARY CIVIL ENGINEERING
 DRAWINGS

SUBTITLE:
 PROPOSED TURBINE PLATFORM
 FOR TURBINE NO.11

SCALE AT A3:	DATE:	DRAWN:	CHECKED:
1:1000	15.06.18	JT	JT
PROJECT NO:	DRAWING NO:	REVISION:	
T15022	210-11	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	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:

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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: RESOURCE CONSENT			

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 PO Box 80212 Green Bay
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 10/215 ROSEDALE ROAD, ALBANY
 AUCKLAND 0632

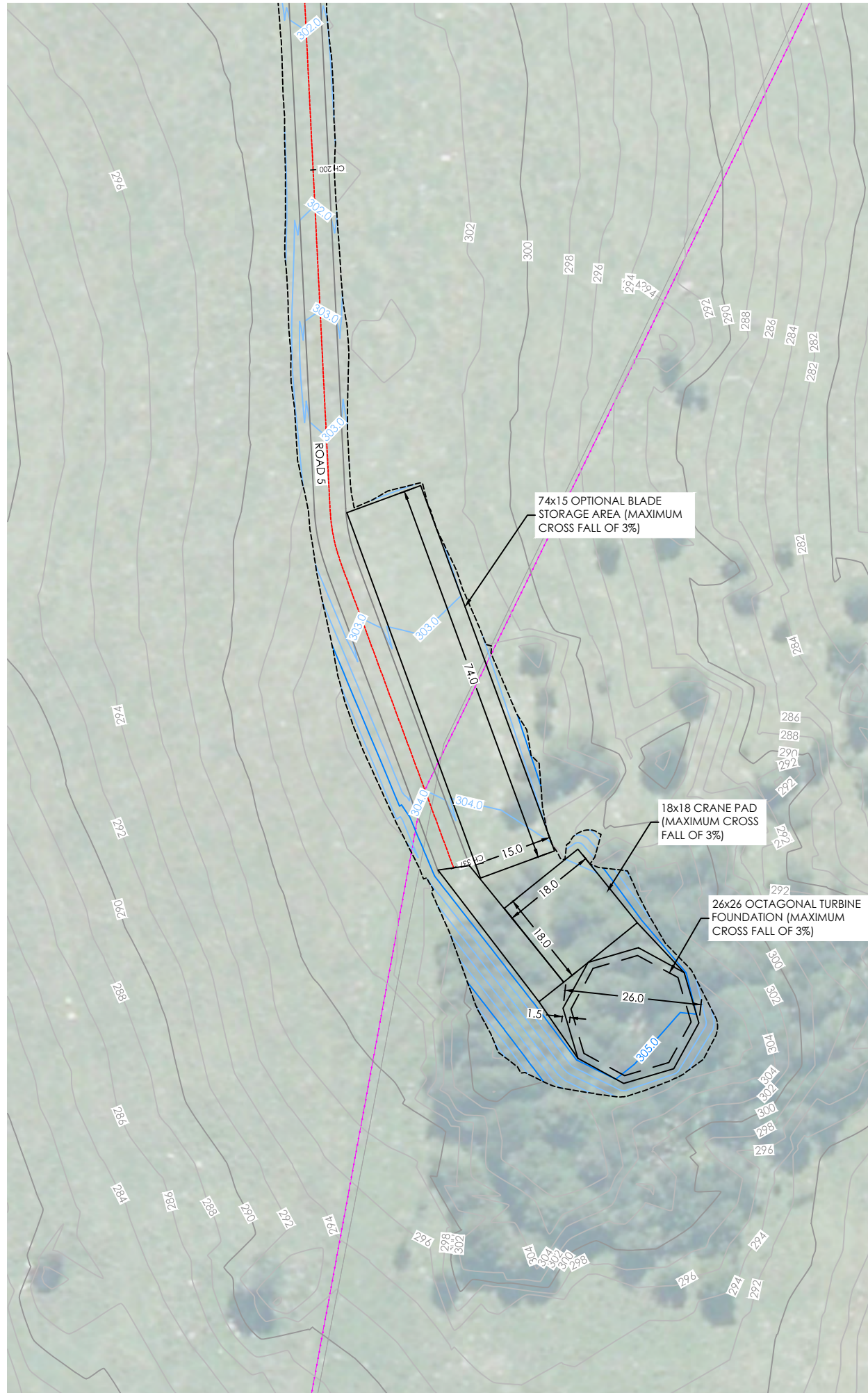
SURVEYOR: SYNERGY POSITIONING SYSTEMS LTD
 3/52 ARRENWAY DRIVE, ALBANY,
 AUCKLAND 0632

SITE: KAIMAI WIND FARM
 ROTOKOHU ROAD, PAEROA

TITLE: PRELIMINARY CIVIL ENGINEERING
 DRAWINGS

SUBTITLE: PROPOSED TURBINE PLATFORM
 FOR TURBINE NO.12

SCALE AT A3:	DATE:	DRAWN:	CHECKED:
1:1000	15.06.18	JT	JT
PROJECT NO:	DRAWING NO:	REVISION:	
T15022	210-12	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



Notes:

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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: RESOURCE CONSENT			

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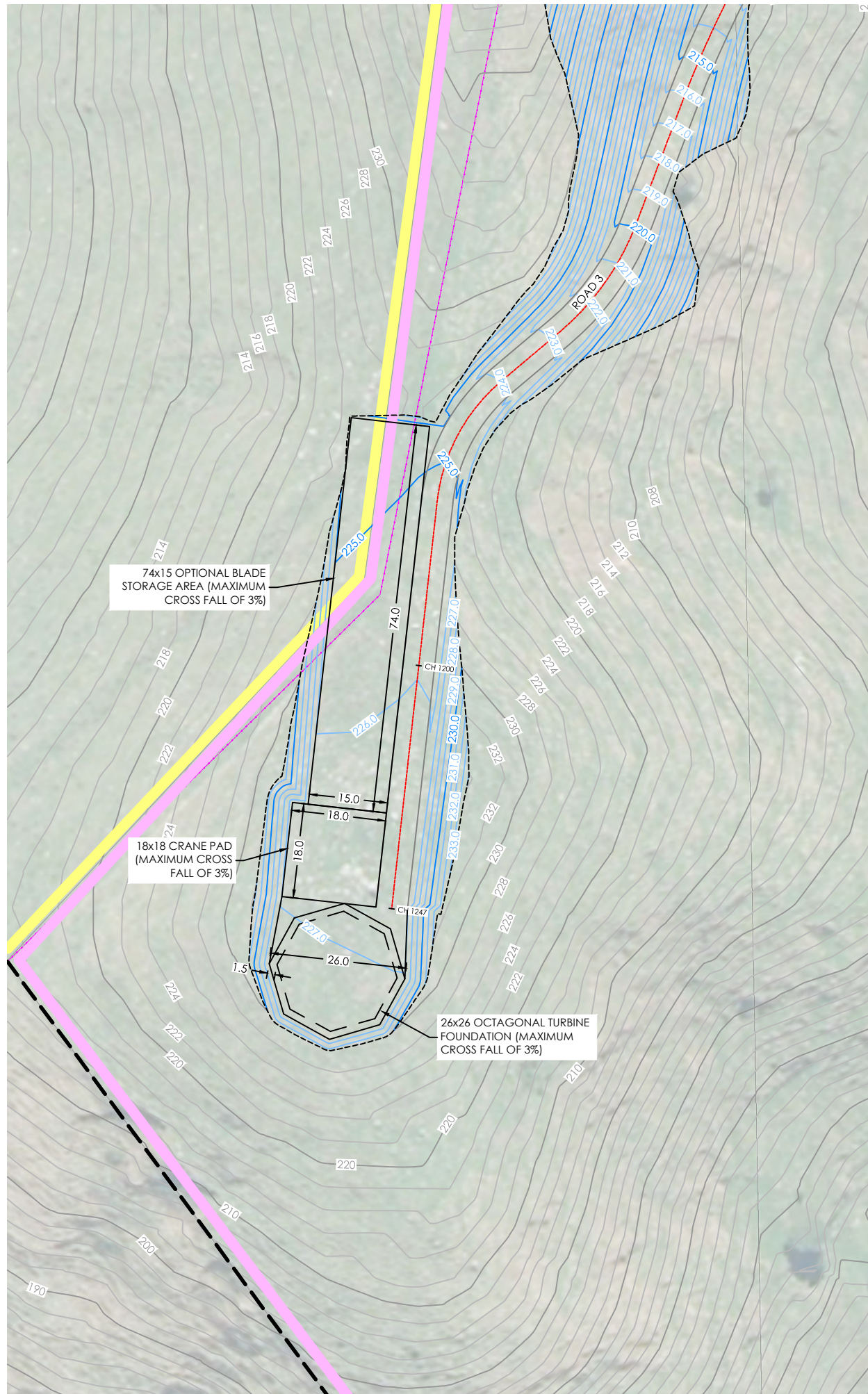
SURVEYOR: SYNERGY POSITIONING SYSTEMS LTD
 3/52 ARRENWAY DRIVE, ALBANY,
 AUCKLAND 0632

SITE: KAIMAI WIND FARM
 ROTOKOHU ROAD, PAEROA

TITLE: PRELIMINARY CIVIL ENGINEERING
 DRAWINGS

SUBTITLE: PROPOSED TURBINE PLATFORM
 FOR TURBINE NO.13

SCALE AT A3:	DATE:	DRAWN:	CHECKED:
1:1000	15.06.18	JT	JT
PROJECT NO:	DRAWING NO:	REVISION:	
T15022	210-13	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



Notes:

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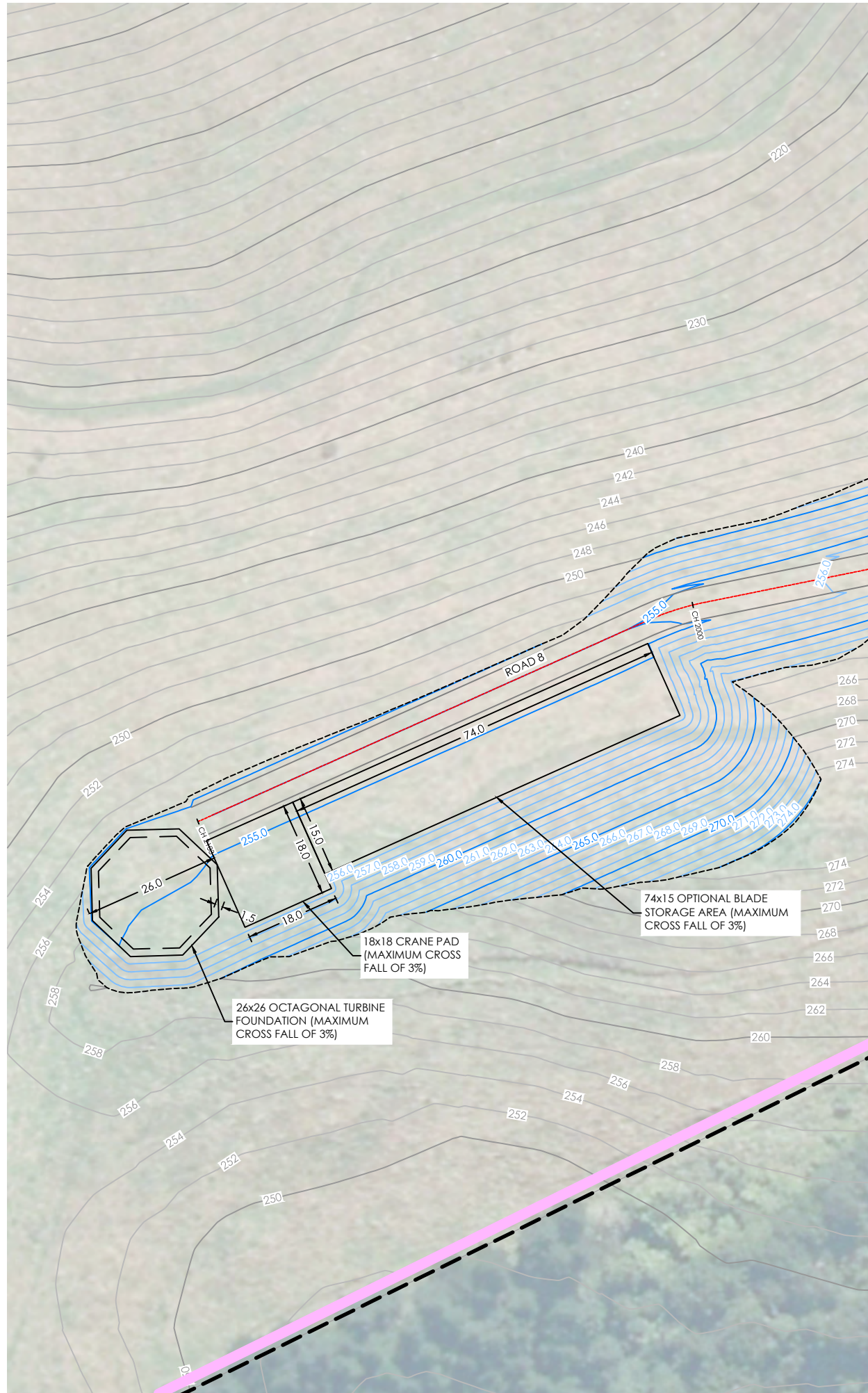
SURVEYOR:
 SYNERGY POSITIONING SYSTEMS LTD
 3/52 ARRENWAY DRIVE, ALBANY,
 AUCKLAND 0632

SITE:
 KAIMAI WIND FARM
 ROTOKOHU ROAD, PAEROA

TITLE:
 PRELIMINARY CIVIL ENGINEERING
 DRAWINGS

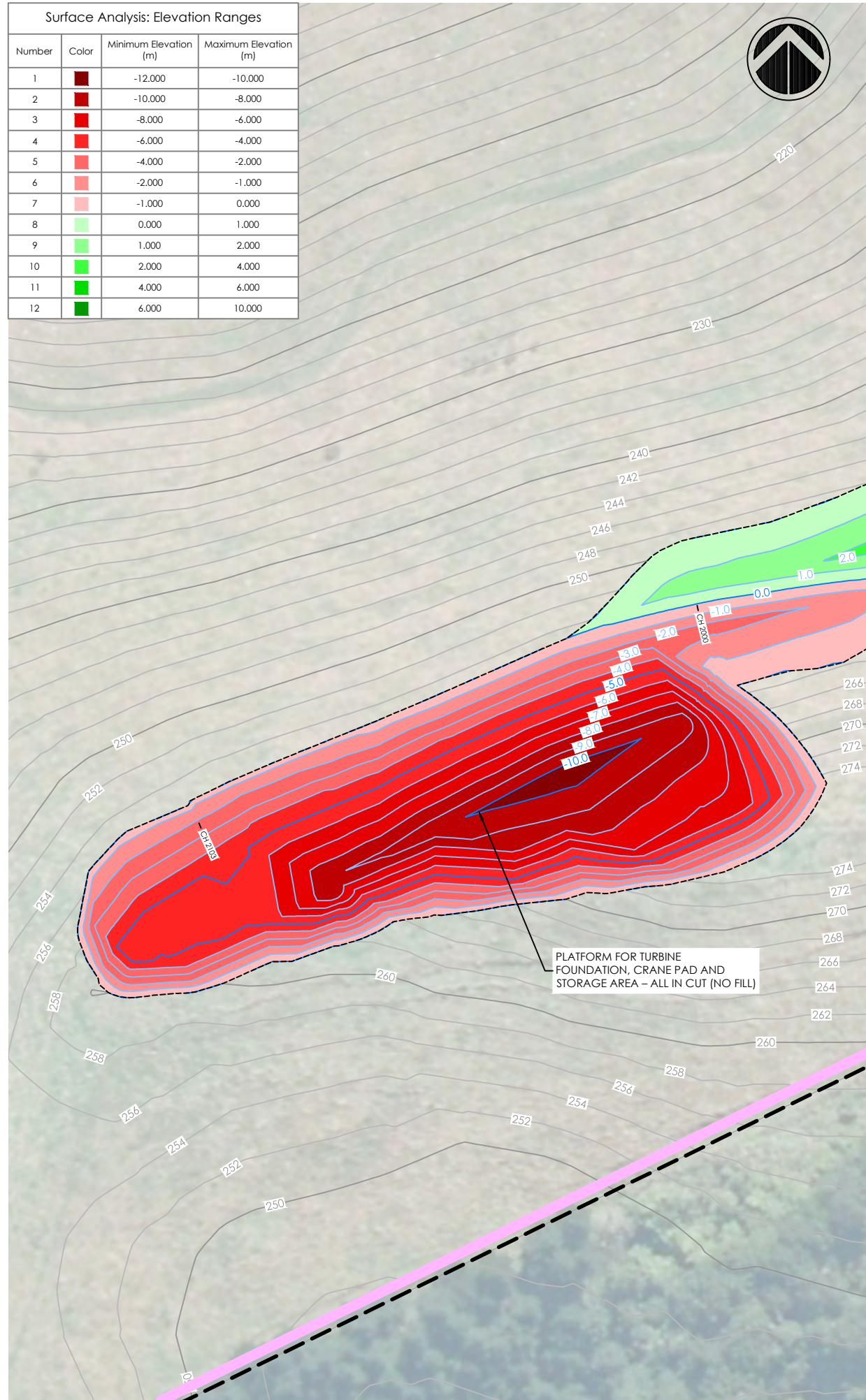
SUBTITLE:
 PROPOSED TURBINE PLATFORM
 FOR TURBINE NO.14

SCALE AT A3:	DATE:	DRAWN:	CHECKED:
1:1000	15.06.18	JT	JT
PROJECT NO:	DRAWING NO:	REVISION:	
T15022	210-14	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	Lightest Pink	-1.000	0.000
8	Lightest Green	0.000	1.000
9	Light Green	1.000	2.000
10	Medium Green	2.000	4.000
11	Dark Green	4.000	6.000
12	Very Dark Green	6.000	10.000



Notes:

1. FOR INFORMATION PURPOSES ONLY.
2. 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.
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:		RESOURCE CONSENT	

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

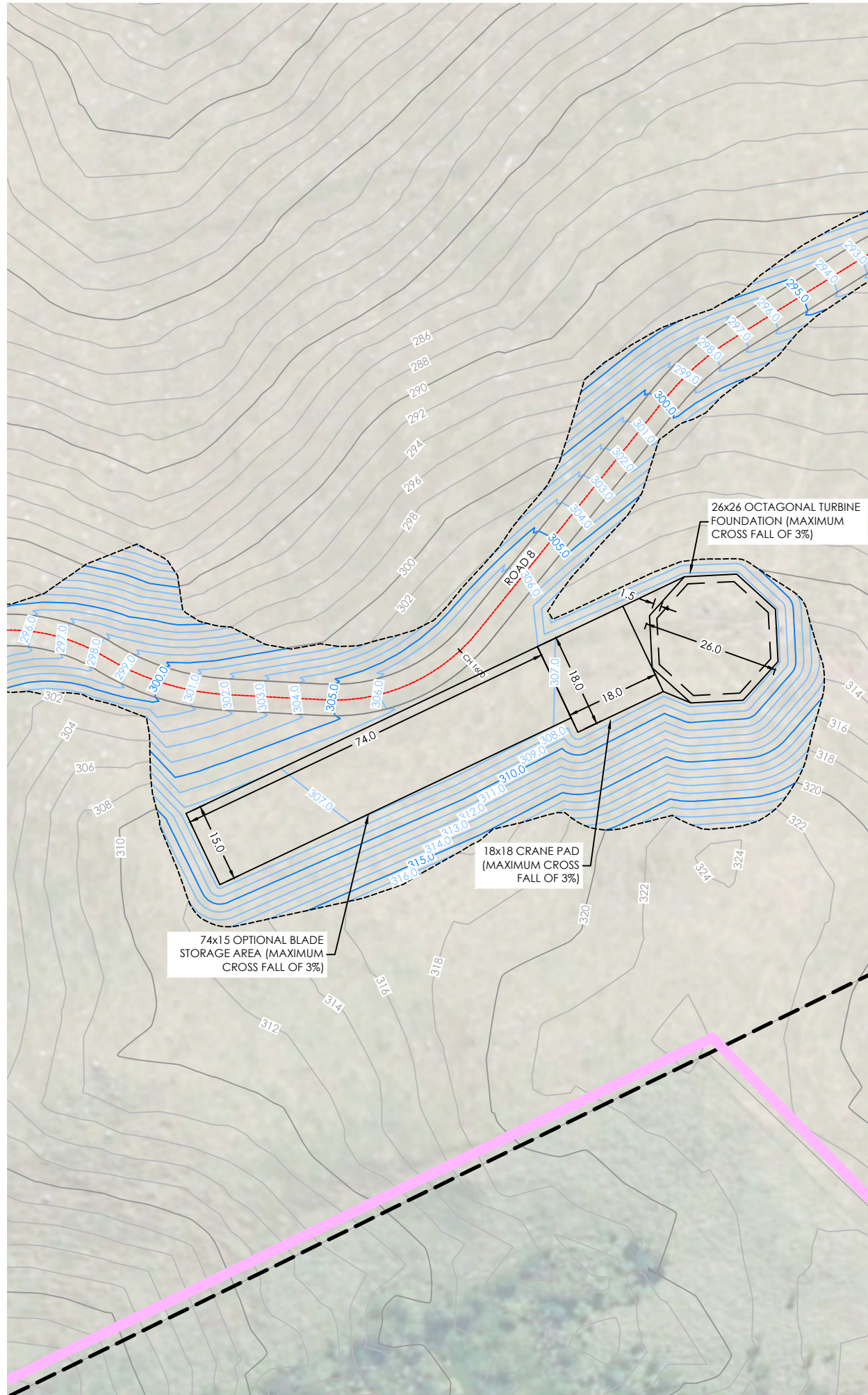
SURVEYOR: SYNERGY POSITIONING SYSTEMS LTD
 3/52 ARRENWAY DRIVE, ALBANY,
 AUCKLAND 0632

SITE: KAIMAI WIND FARM
 ROTOKOHU ROAD, PAEROA

TITLE: PRELIMINARY CIVIL ENGINEERING
 DRAWINGS

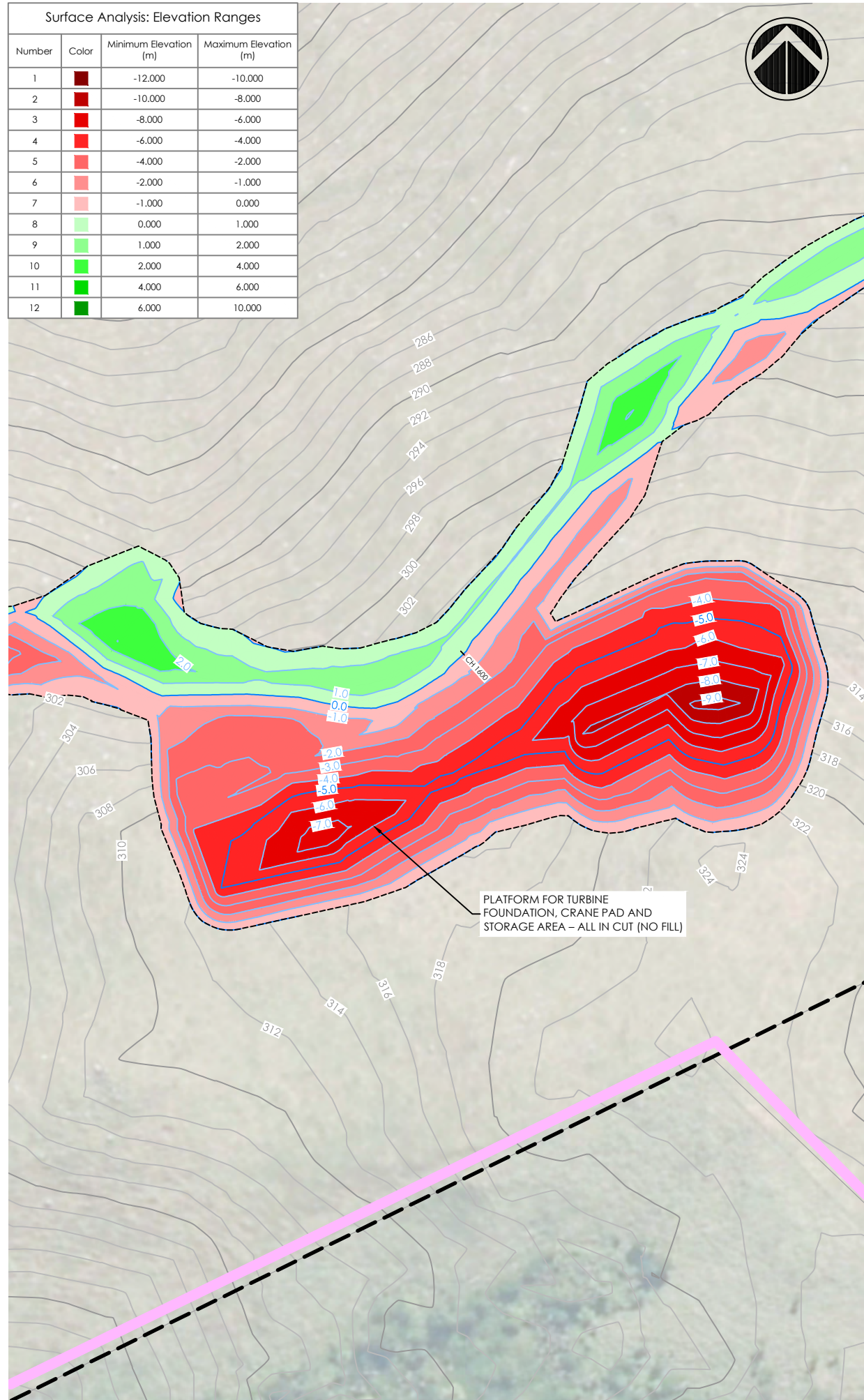
SUBTITLE: PROPOSED TURBINE PLATFORM
 FOR TURBINE NO.15

SCALE AT A3:	DATE:	DRAWN:	CHECKED:
1:1000	15.06.18	JT	JT
PROJECT NO:	DRAWING NO:	REVISION:	
T15022	210-15	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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LEGEND

- EXISTING PARCEL BOUNDARY
- JACKSON PROPERTY BOUNDARY
- ROTKOHOU 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:		RESOURCE CONSENT	

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 PO Box 80212 Green Bay
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 10/215 ROSEDALE ROAD, ALBANY
 AUCKLAND 0632

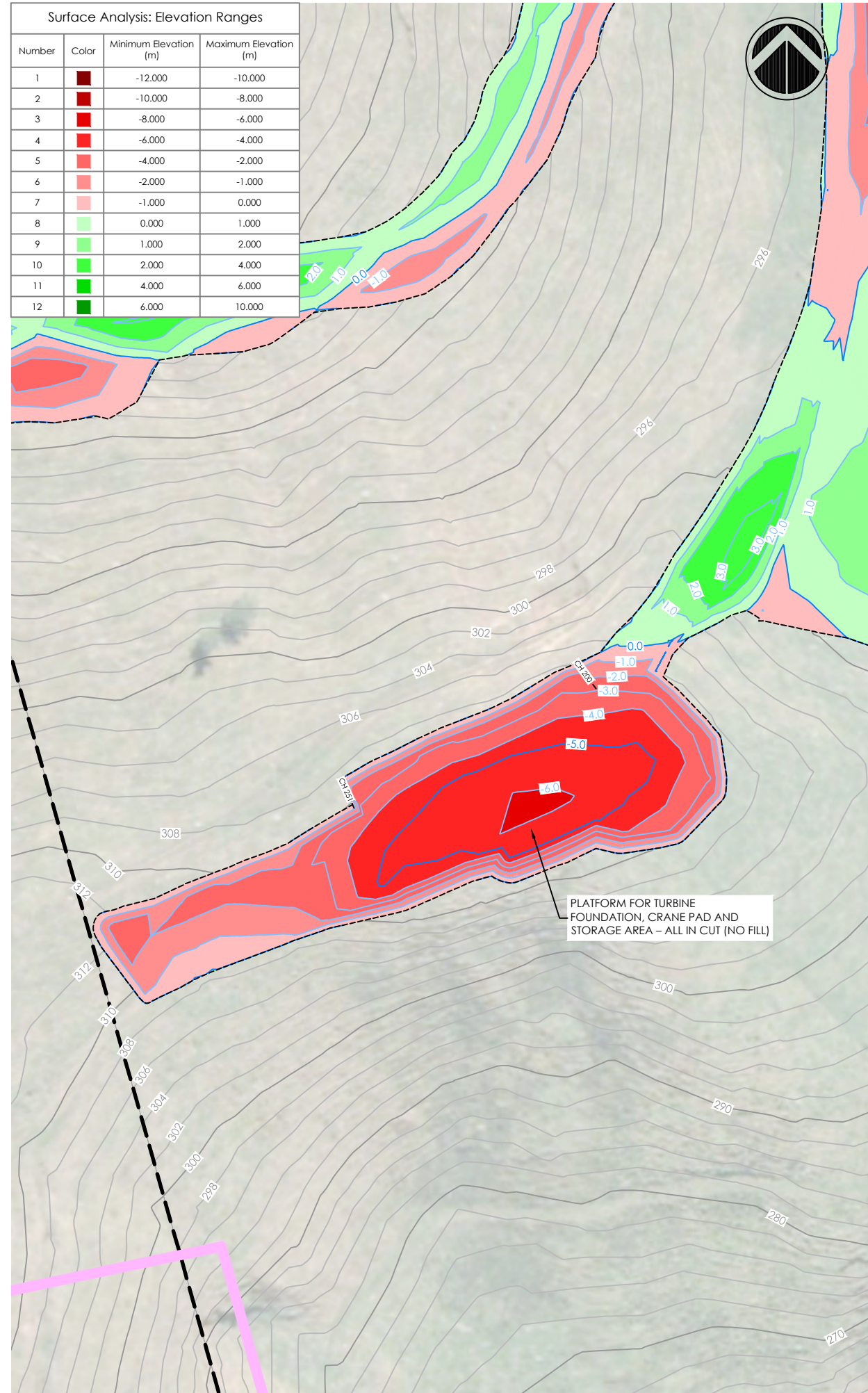
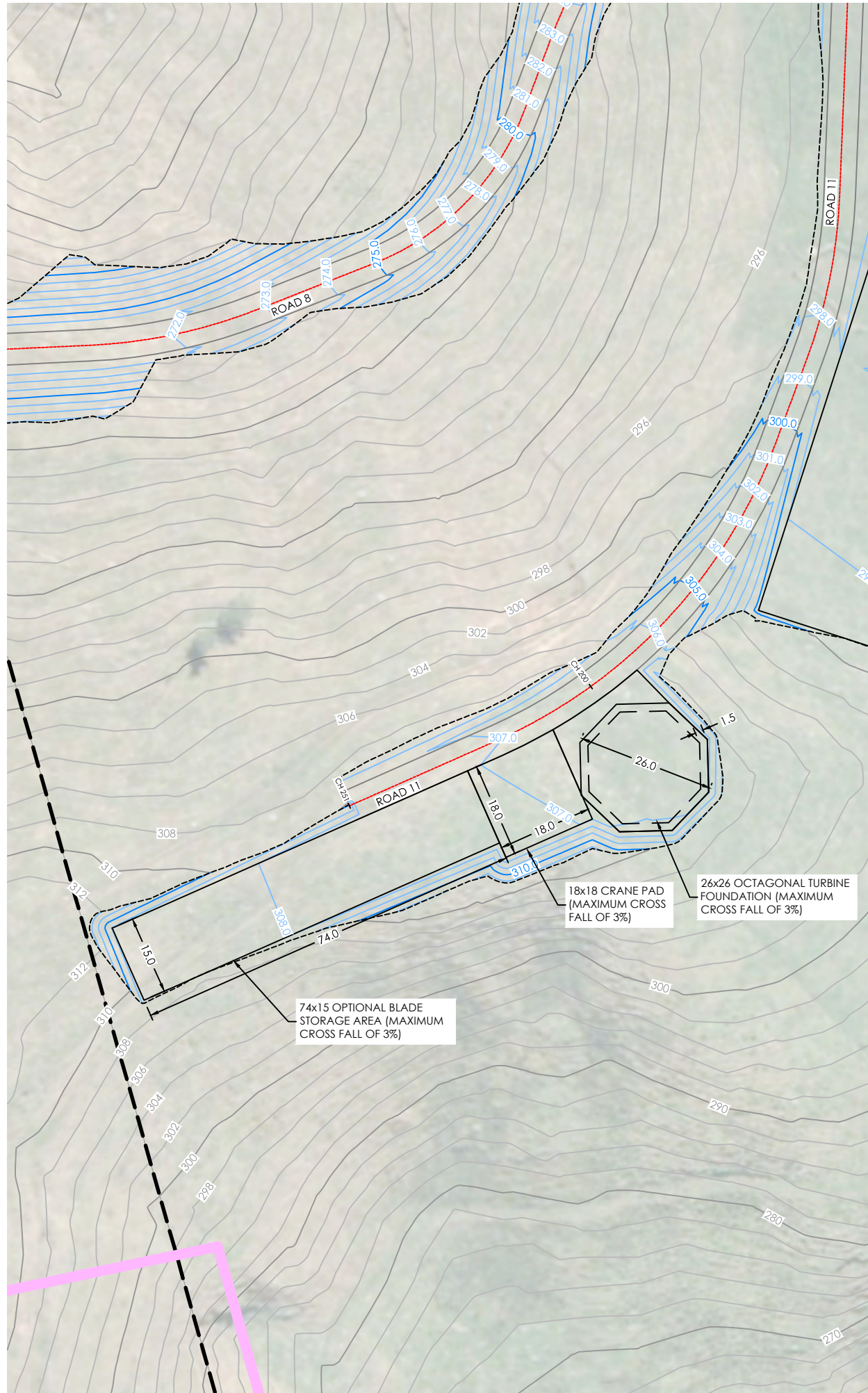
SURVEYOR: SYNERGY POSITIONING SYSTEMS LTD
 3/52 ARRENWAY DRIVE, ALBANY,
 AUCKLAND 0632

SITE: KAIMAI WIND FARM
 ROTOKOHO ROAD, PAEROA

TITLE: PRELIMINARY CIVIL ENGINEERING
 DRAWINGS

SUBTITLE: PROPOSED TURBINE PLATFORM
 FOR TURBINE NO.16

SCALE AT A3:	DATE:	DRAWN:	CHECKED:
1:1000	15.06.18	JT	JT
PROJECT NO:	DRAWING NO:	REVISION:	
T15022	210-16	B	



Notes:

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LEGEND

- EXISTING PARCEL BOUNDARY
- JACKSON PROPERTY BOUNDARY
- ROTKOHOU 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:		RESOURCE CONSENT	

TEKTUS Consultants Ltd
 PO Box 80212 Green Bay
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 www.tektus.nz

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

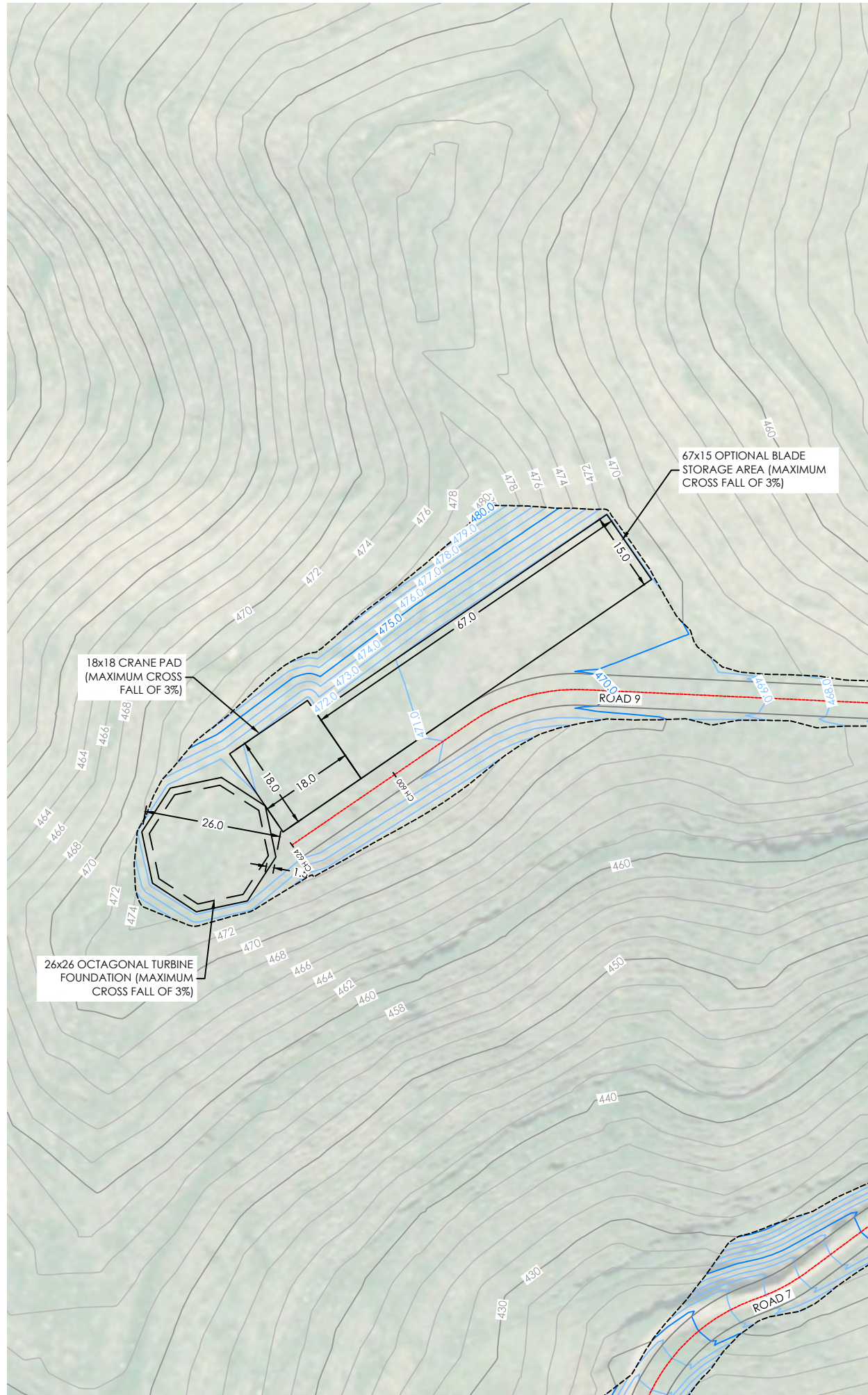
SURVEYOR: SYNERGY POSITIONING SYSTEMS LTD
 3/52 ARRENWAY DRIVE, ALBANY,
 AUCKLAND 0632

SITE: KAIMAI WIND FARM
 ROTOKOHO ROAD, PAEROA

TITLE: PRELIMINARY CIVIL ENGINEERING
 DRAWINGS

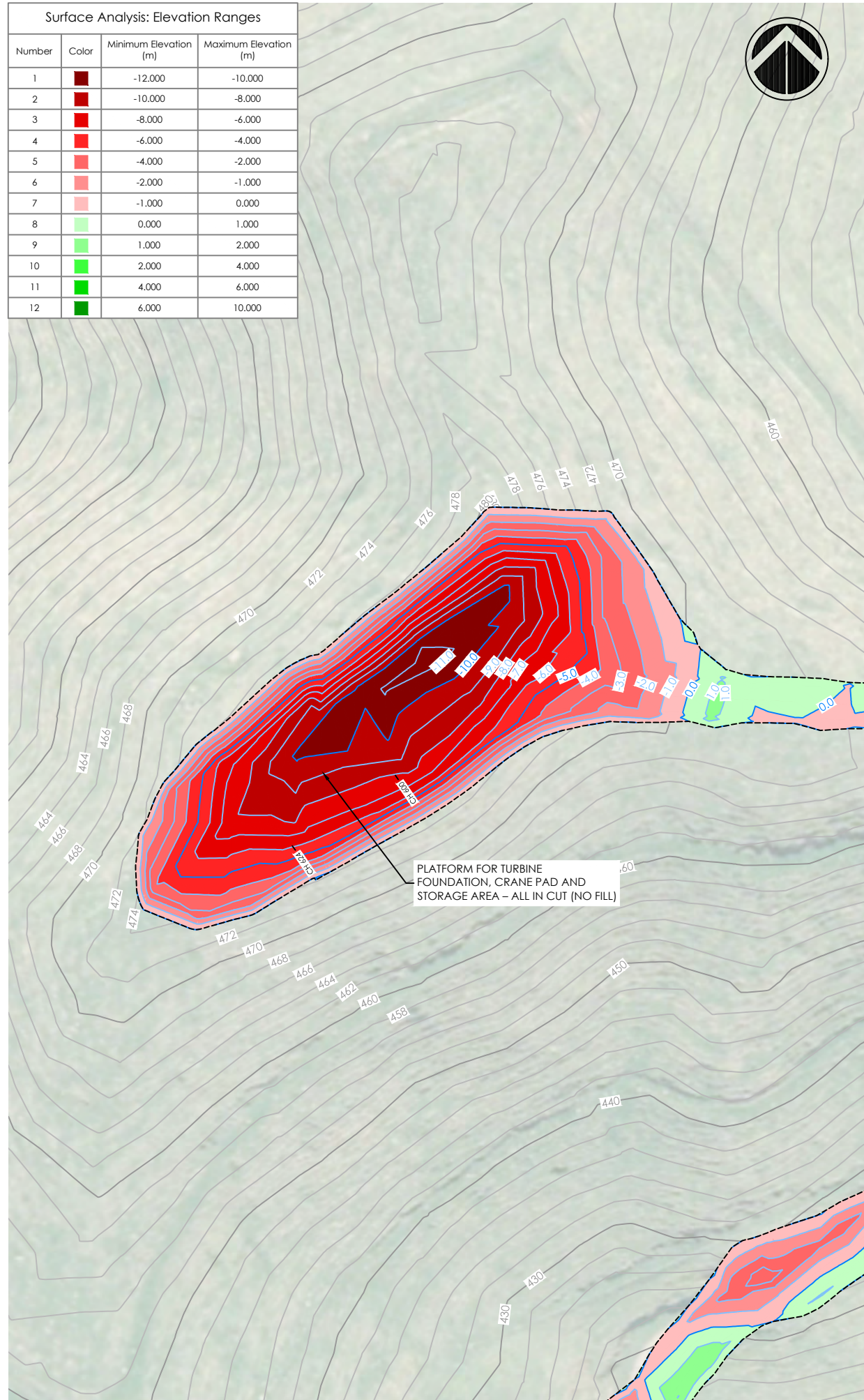
SUBTITLE: PROPOSED TURBINE PLATFORM
 FOR TURBINE NO.17

SCALE AT A3:	DATE:	DRAWN:	CHECKED:
1:1000	15.06.18	JT	JT
PROJECT NO:	DRAWING NO:	REVISION:	
T15022	210-17	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	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



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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:		RESOURCE CONSENT	

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10/215 ROSEDALE ROAD, ALBANY
AUCKLAND 0632

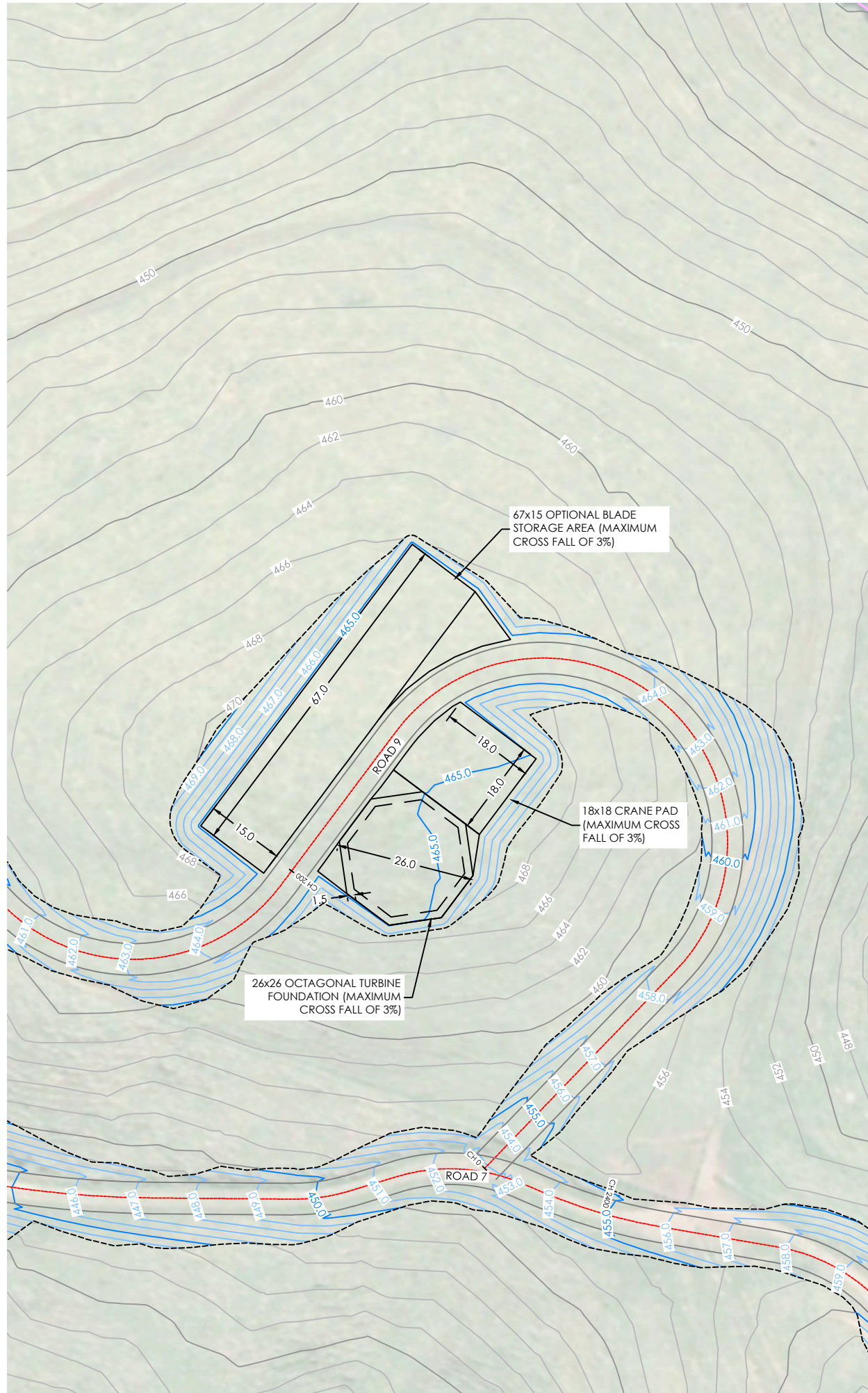
SURVEYOR:
SYNERGY POSITIONING SYSTEMS LTD
3/52 ARRENWAY DRIVE, ALBANY,
AUCKLAND 0632

SITE:
KAIMAI WIND FARM
ROKOHU ROAD, PAEROA

TITLE:
PRELIMINARY CIVIL ENGINEERING
DRAWINGS

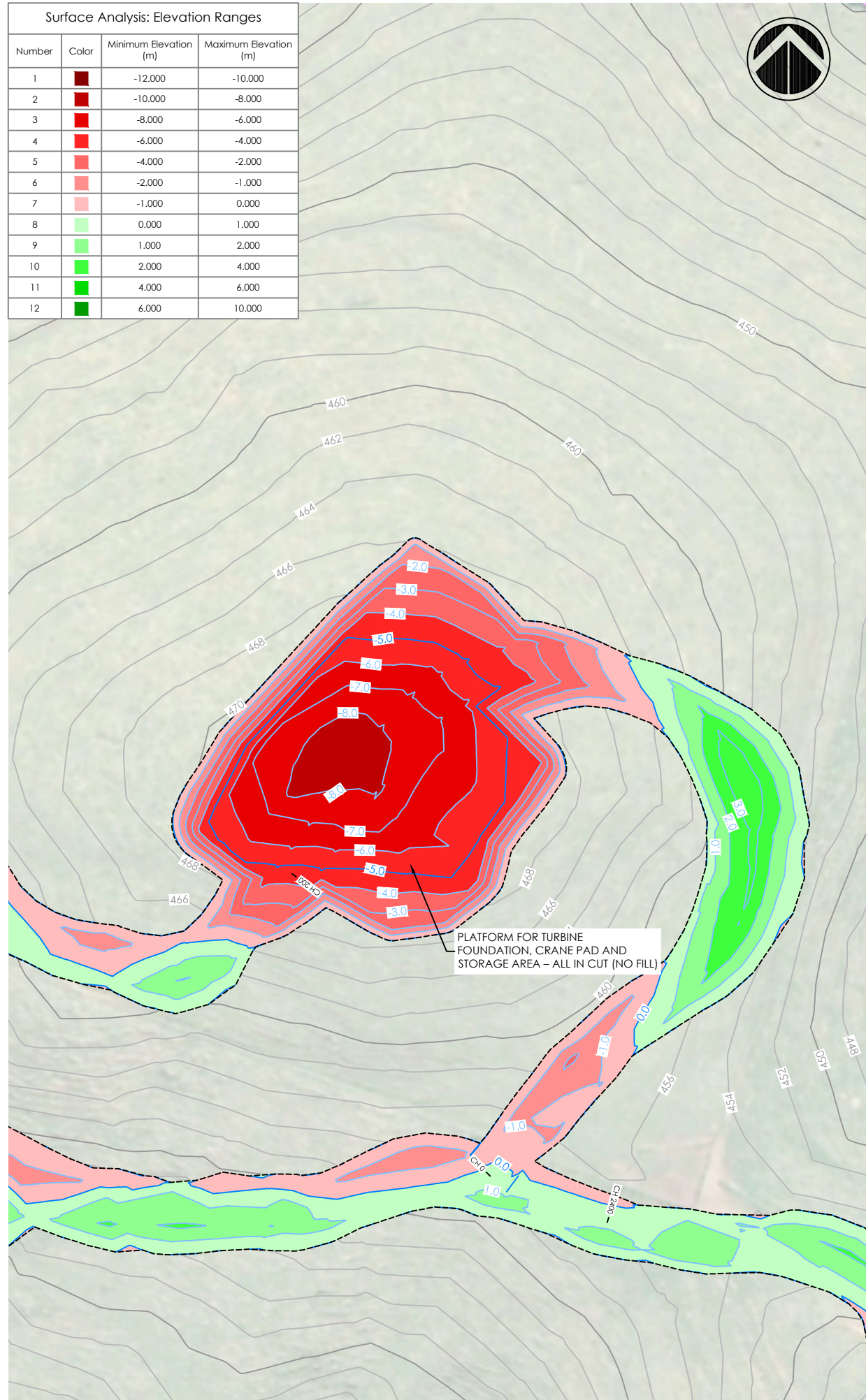
SUBTITLE:
PROPOSED TURBINE PLATFORM
FOR TURBINE NO.18

SCALE AT A3:	DATE:	DRAWN:	CHECKED:
1:1500	15.06.18	JT	JT
PROJECT NO:	DRAWING NO:	REVISION:	
T15022	210-18	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	Lightest Pink	-1.000	0.000
8	Lightest Green	0.000	1.000
9	Light Green	1.000	2.000
10	Medium Green	2.000	4.000
11	Dark Green	4.000	6.000
12	Very Dark Green	6.000	10.000



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LEGEND

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- DENIZE BROTHERS PROPERTY BOUNDARY
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- 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: RESOURCE CONSENT			

TEKTUS Consultants Ltd
 PO Box 80212 Green Bay
 Auckland 0643 NZ
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 www.tektus.nz

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

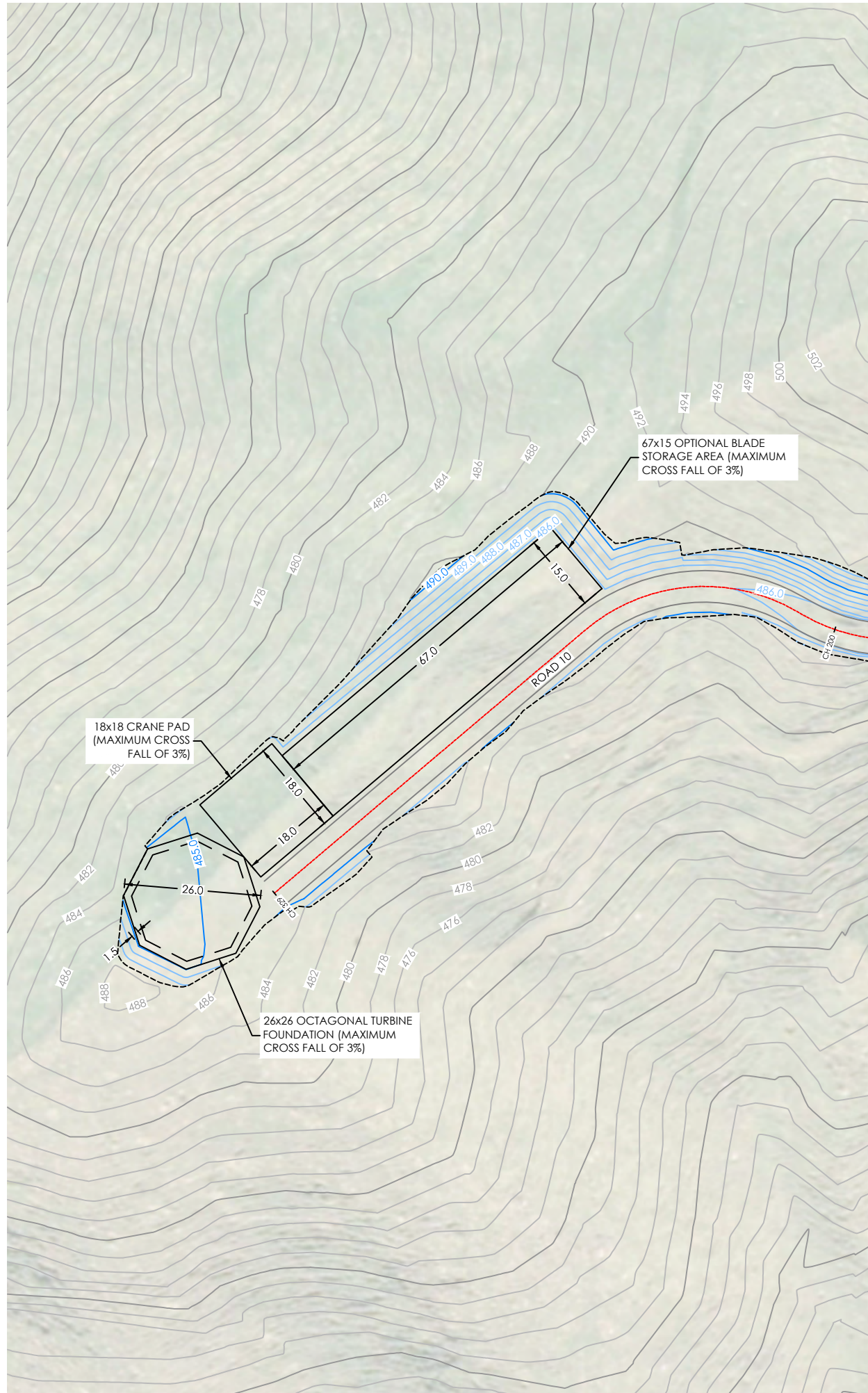
SURVEYOR:
 SYNERGY POSITIONING SYSTEMS LTD
 3/52 ARRENWAY DRIVE, ALBANY,
 AUCKLAND 0632

SITE:
 KAIMAI WIND FARM
 ROTOKOHU ROAD, PAEROA

TITLE:
 PRELIMINARY CIVIL ENGINEERING
 DRAWINGS

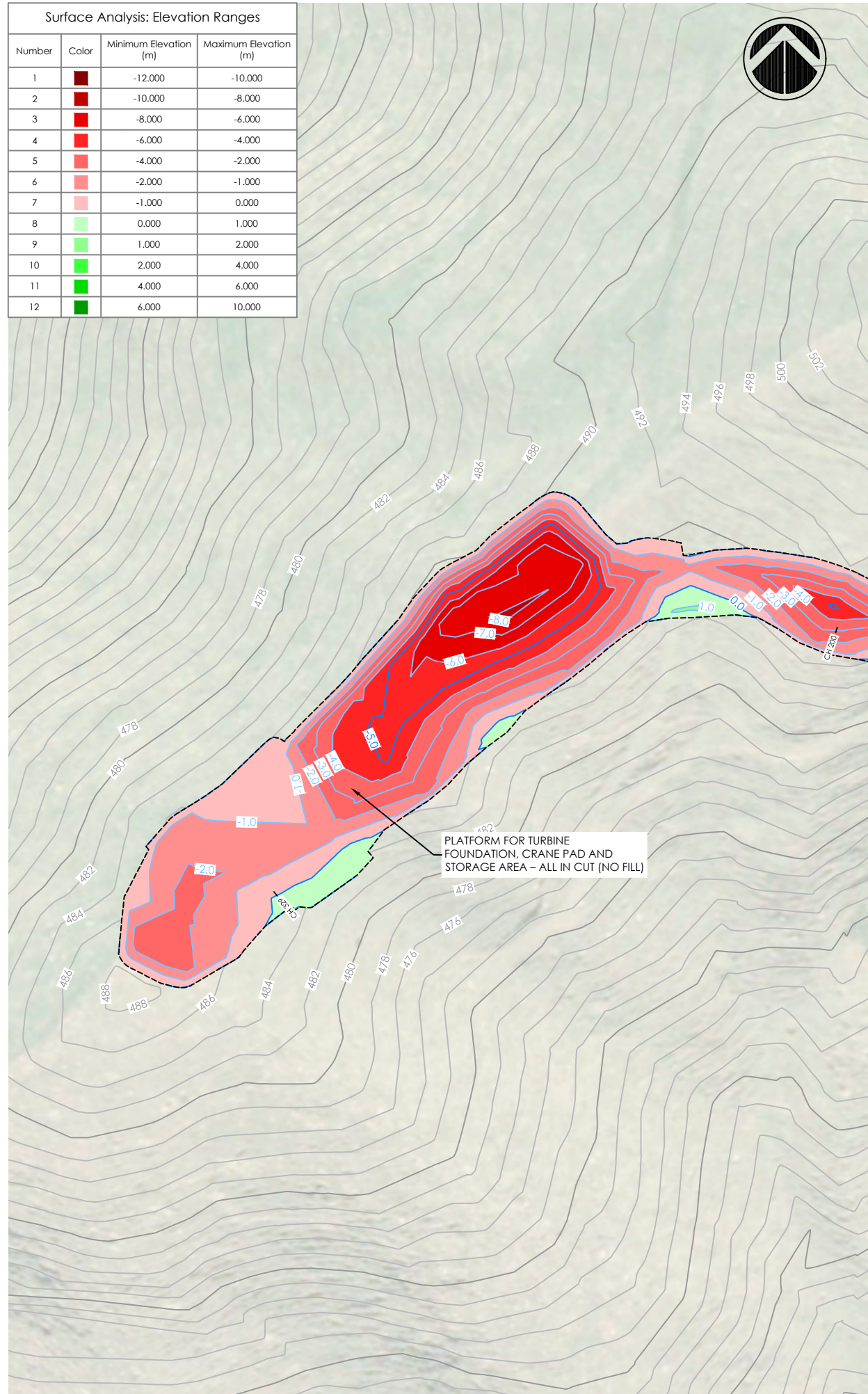
SUBTITLE:
 PROPOSED TURBINE PLATFORM
 FOR TURBINE NO.19

SCALE AT A3:	DATE:	DRAWN:	CHECKED:
1:1000	15.06.18	JT	JT
PROJECT NO:	DRAWING NO:	REVISION:	
T15022	210-19	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



Notes:

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LEGEND

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- DENIZE BROTHERS PROPERTY BOUNDARY
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- 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

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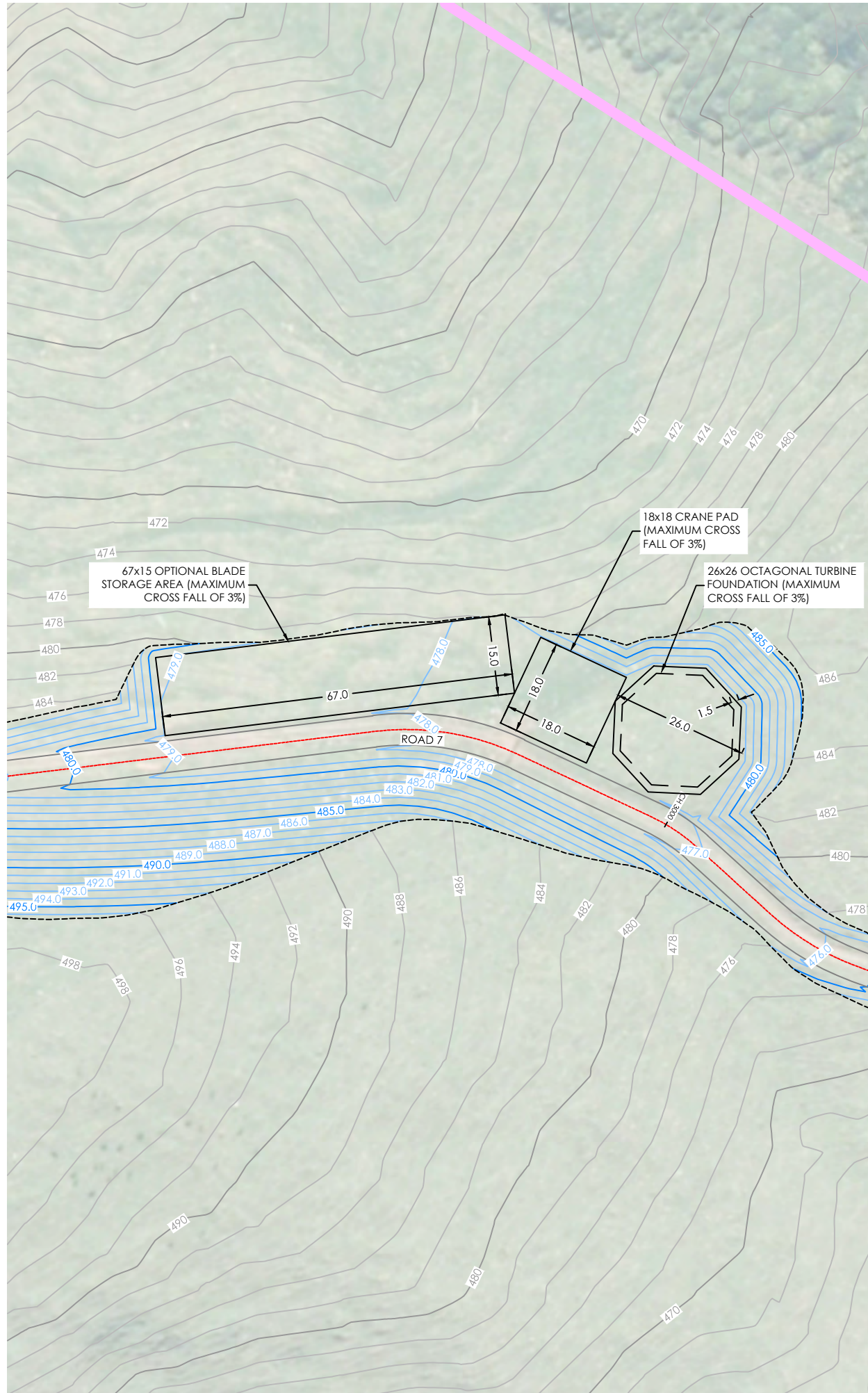
SURVEYOR:
 SYNERGY POSITIONING SYSTEMS LTD
 3/52 ARRENWAY DRIVE, ALBANY,
 AUCKLAND 0632

SITE:
 KAIMAI WIND FARM
 ROTOKOHU ROAD, PAEROA

TITLE:
 PRELIMINARY CIVIL ENGINEERING
 DRAWINGS

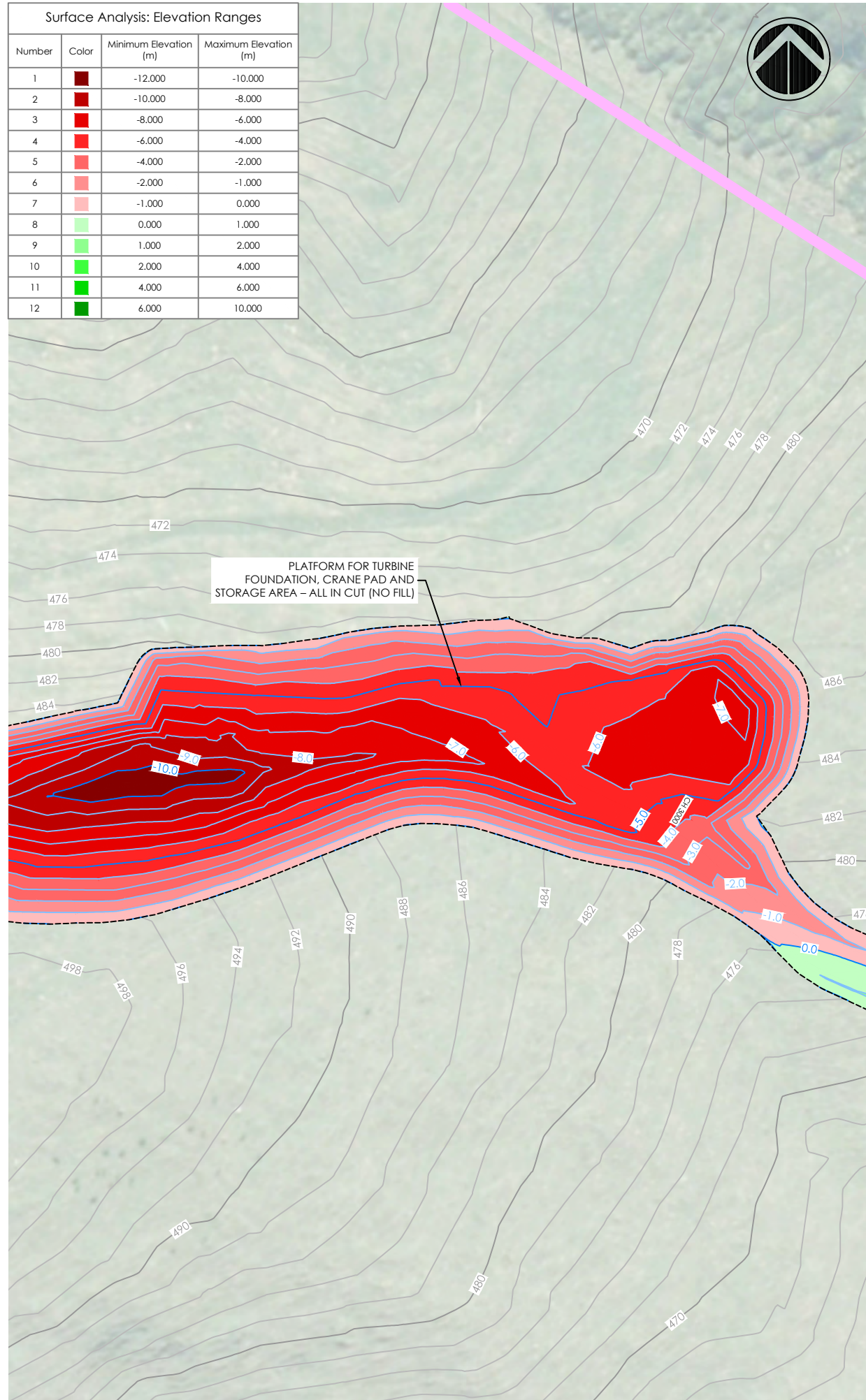
SUBTITLE:
 PROPOSED TURBINE PLATFORM
 FOR TURBINE NO.20

SCALE AT A3:	DATE:	DRAWN:	CHECKED:
1:1000	15.06.18	JT	JT
PROJECT NO:	DRAWING NO:	REVISION:	
T15022	210-20	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 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



Notes:

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LEGEND

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- JACKSON PROPERTY BOUNDARY
- ROTOKOHU FARMS PROPERTY BOUNDARY
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- 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:		RESOURCE CONSENT	

TEKTUS Consultants Ltd
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 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

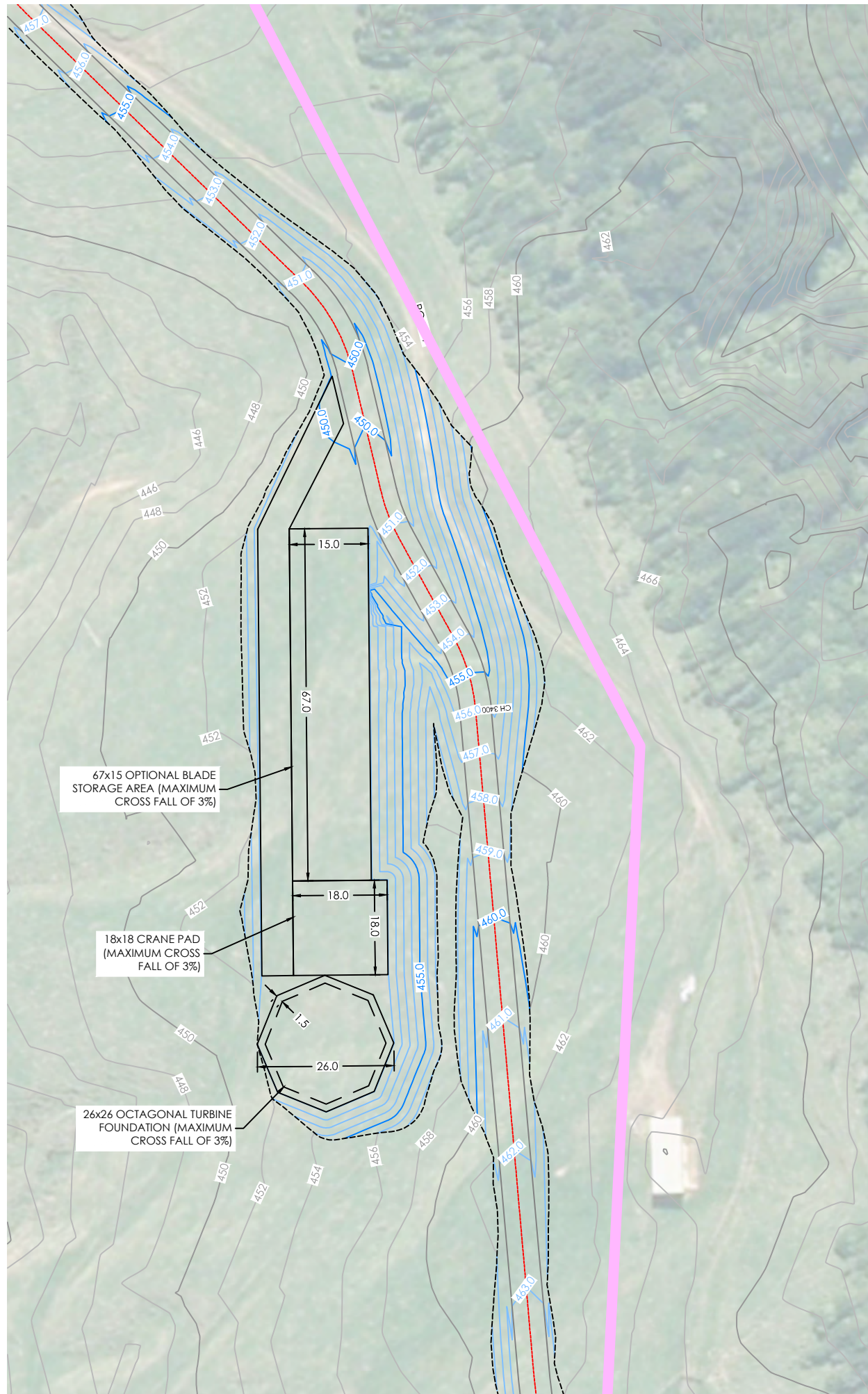
SURVEYOR:
 SYNERGY POSITIONING SYSTEMS LTD
 3/52 ARRENWAY DRIVE, ALBANY,
 AUCKLAND 0632

SITE:
 KAIMAI WIND FARM
 ROTOKOHU ROAD, PAEROA

TITLE:
 PRELIMINARY CIVIL ENGINEERING
 DRAWINGS

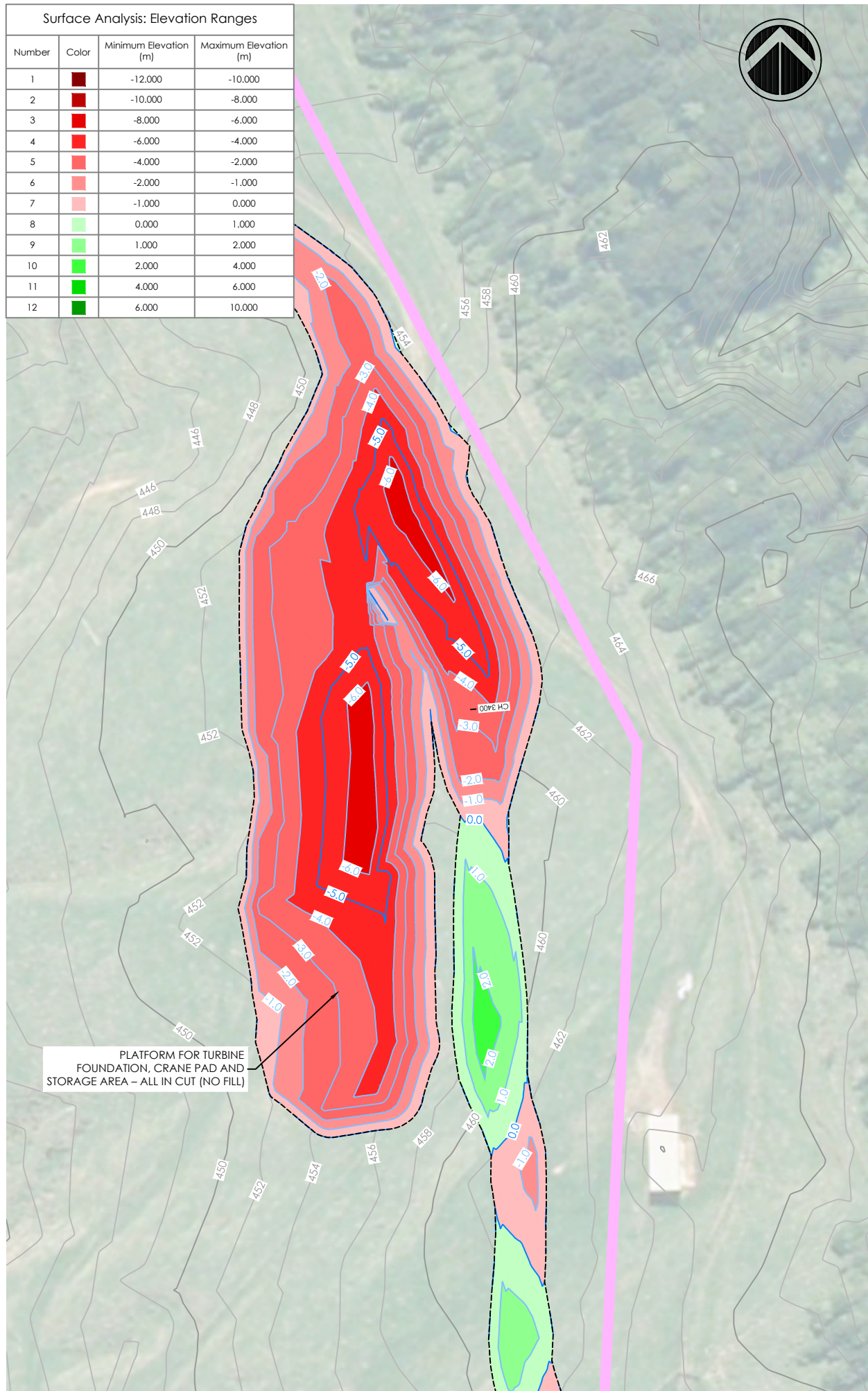
SUBTITLE:
 PROPOSED TURBINE PLATFORM
 FOR TURBINE NO.21

SCALE AT A3: 1:1000	DATE: 15.06.18	DRAWN: JT	CHECKED: JT
PROJECT NO: T15022	DRAWING NO: 210-21	REVISION: 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	White	-1.000	0.000
8	Light Green	0.000	1.000
9	Medium Green	1.000	2.000
10	Dark Green	2.000	4.000
11	Very Dark Green	4.000	6.000
12	Black	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.
- THE PROPOSED ROAD ALIGNMENT, TURBINE PLATFORMS, AND OVERALL EARTHWORKS ARE BASED ON AN INDICATIVE ROAD ALIGNMENT AND REMAIN SUBJECT TO DETAILED DESIGN.
- 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
- DENIZ 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: RESOURCE CONSENT			

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AUCKLAND 0632

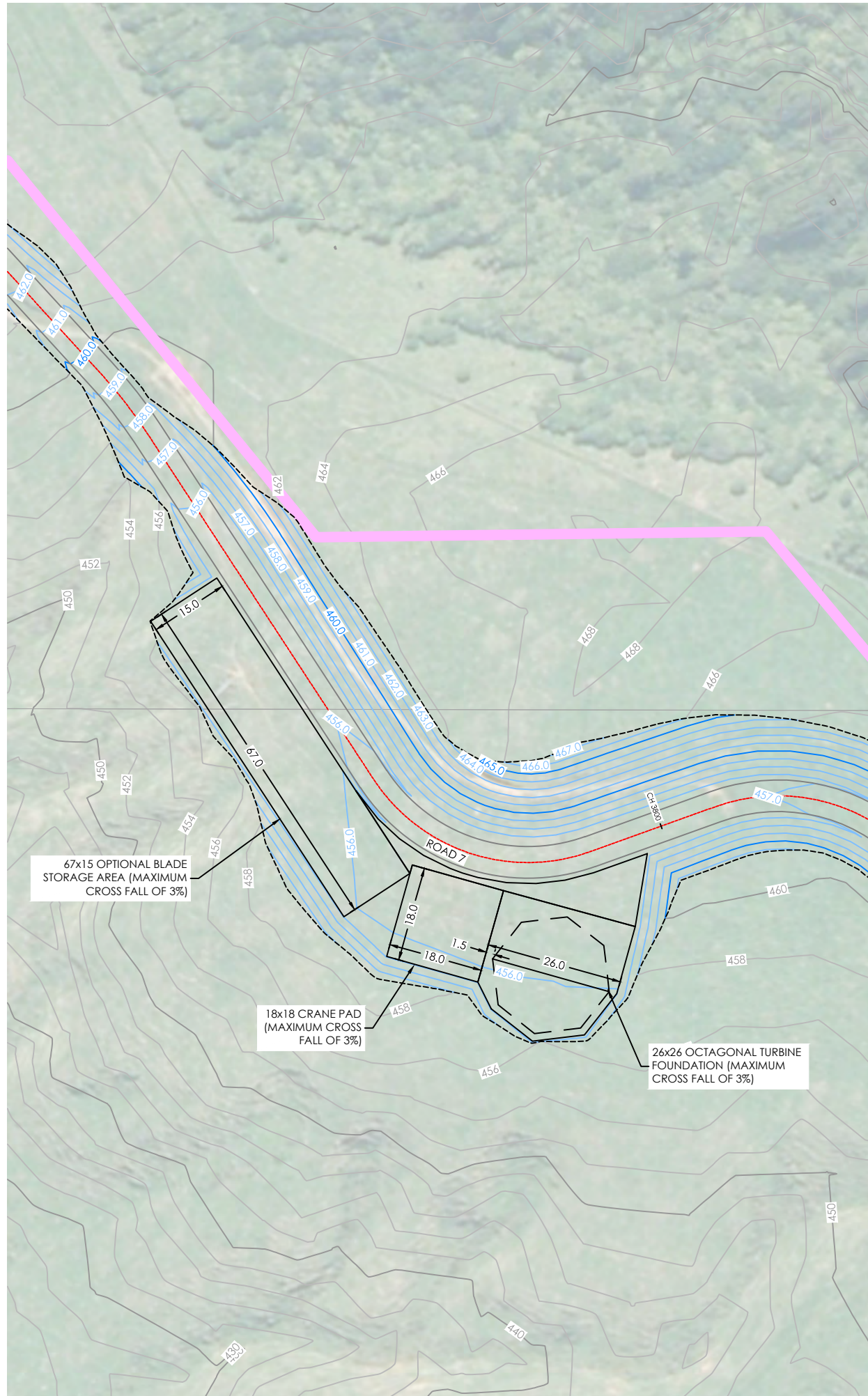
SURVEYOR:
SYNERGY POSITIONING SYSTEMS LTD
3/52 ARRENWAY DRIVE, ALBANY,
AUCKLAND 0632

SITE:
KAIMAI WIND FARM
ROKOHU ROAD, PAEROA

TITLE:
PRELIMINARY CIVIL ENGINEERING
DRAWINGS

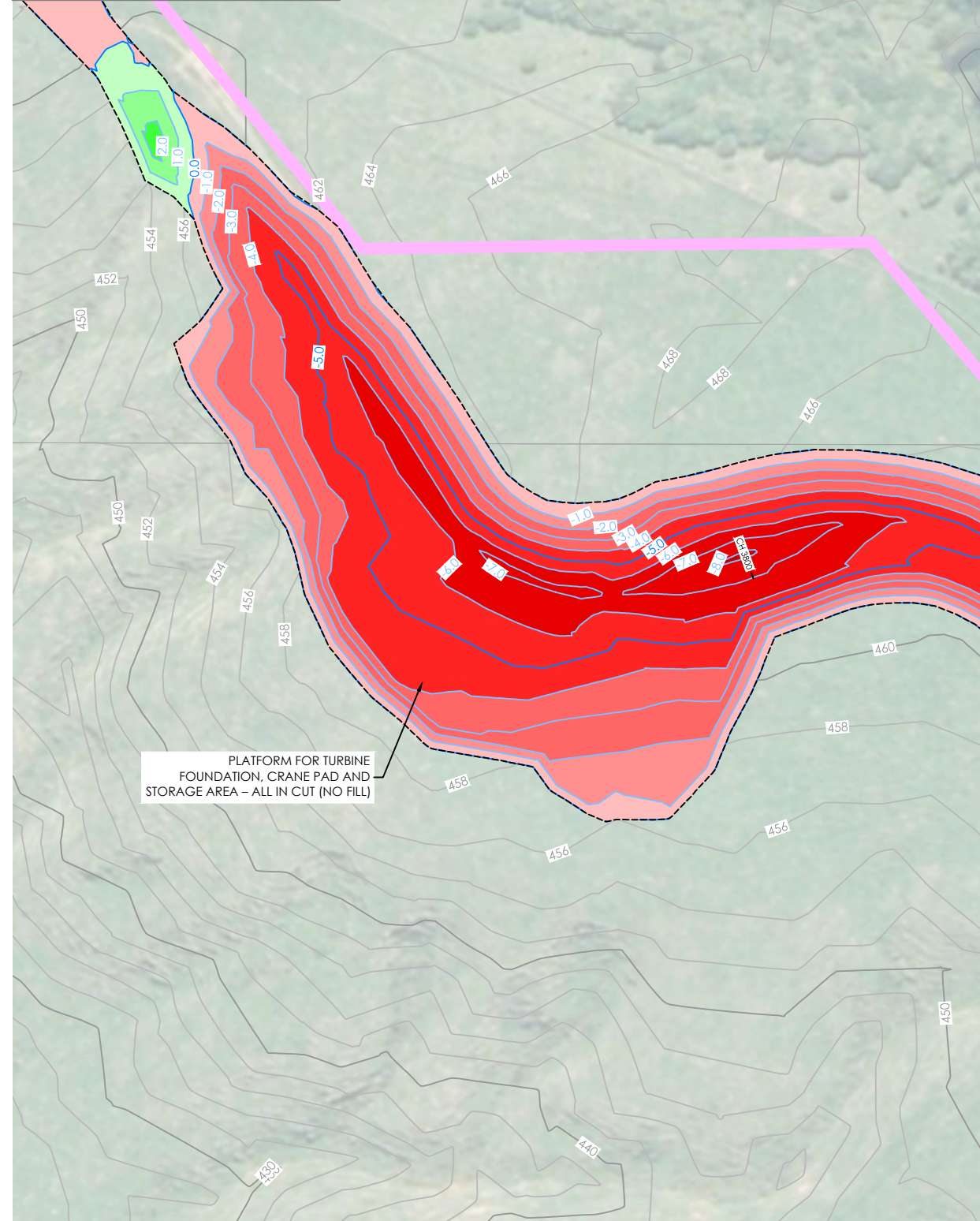
SUBTITLE:
PROPOSED TURBINE PLATFORM
FOR TURBINE NO.22

SCALE AT A3:	DATE:	DRAWN:	CHECKED:
1:1000	15.06.18	JT	JT
PROJECT NO:	DRAWING NO:	REVISION:	
T15022	210-22	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	Lightest Pink	-1.000	0.000
8	Lightest Green	0.000	1.000
9	Light Green	1.000	2.000
10	Medium Green	2.000	4.000
11	Dark Green	4.000	6.000
12	Very Dark Green	6.000	10.000



Notes:

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- 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: **RESOURCE CONSENT**

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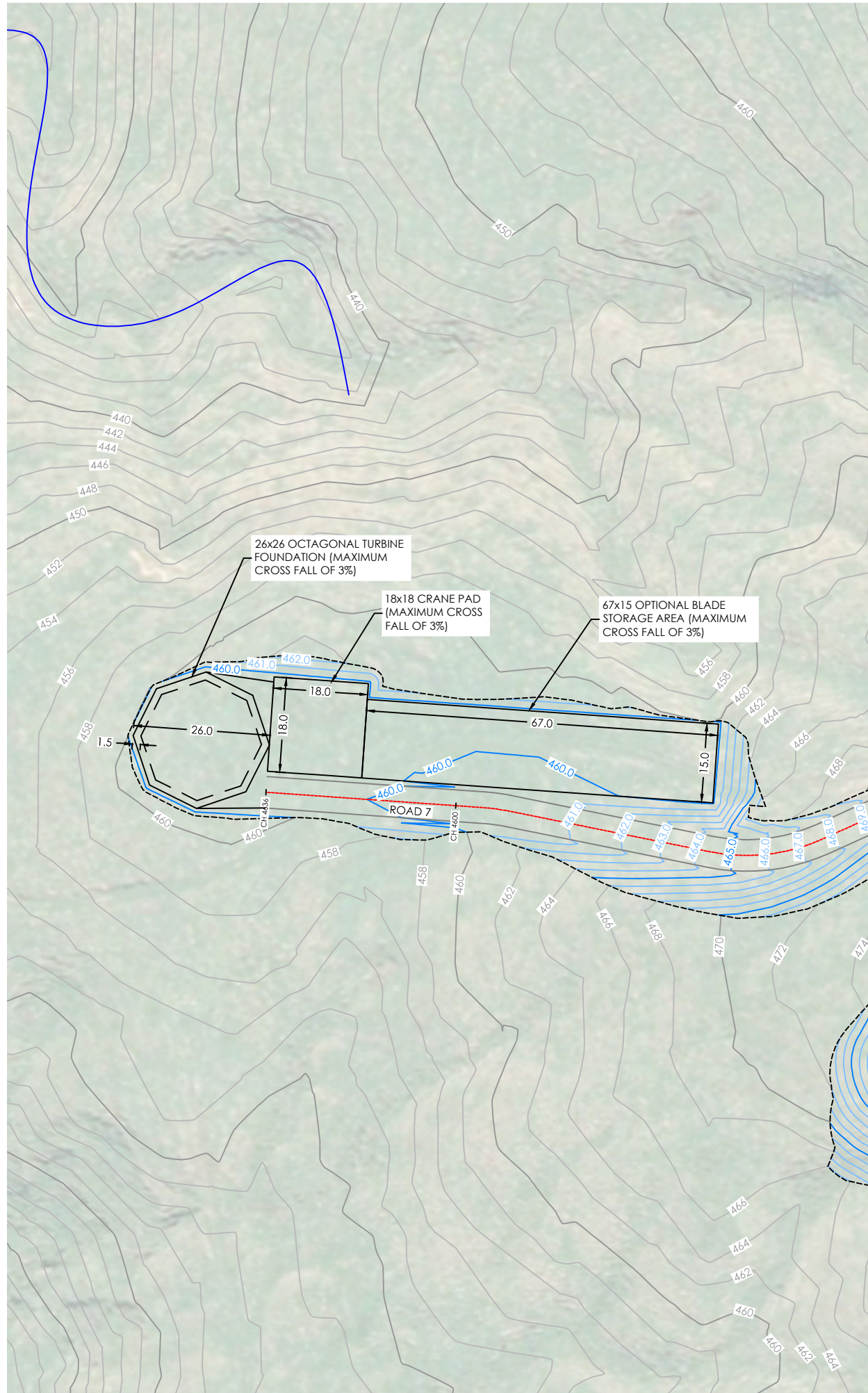
SURVEYOR: SYNERGY POSITIONING SYSTEMS LTD
 3/52 ARRENWAY DRIVE, ALBANY,
 AUCKLAND 0632

SITE: KAIMAI WIND FARM
 ROTOKOHU ROAD, PAEROA

TITLE: PRELIMINARY CIVIL ENGINEERING
 DRAWINGS

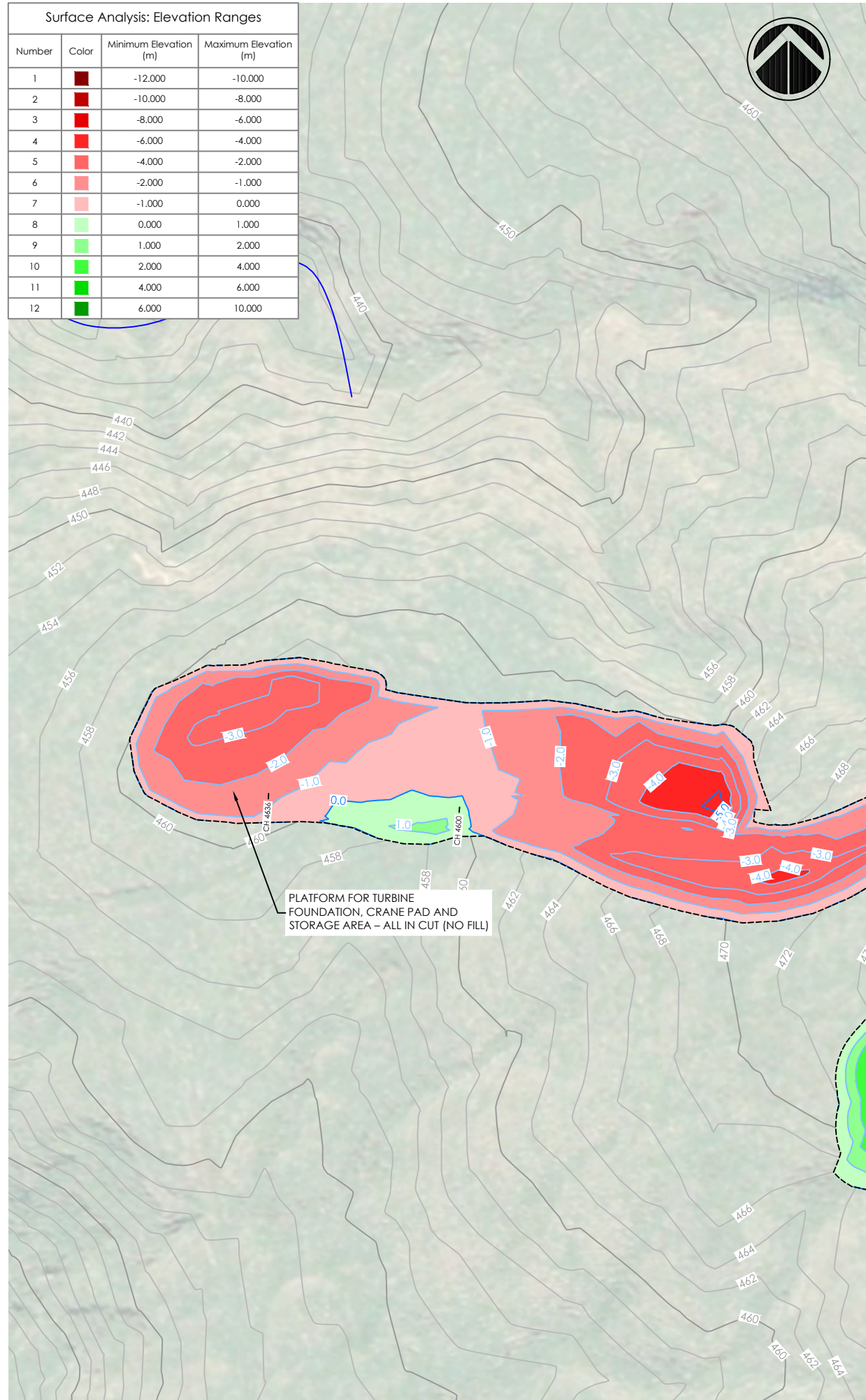
SUBTITLE: PROPOSED TURBINE PLATFORM
 FOR TURBINE NO.23

SCALE AT A3:	DATE:	DRAWN:	CHECKED:
1:1000	15.06.18	JT	JT
PROJECT NO:	DRAWING NO:	REVISION:	
T15022	210-23	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



Notes:

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LEGEND

- EXISTING PARCEL BOUNDARY
- JACKSON PROPERTY BOUNDARY
- ROKOKOHU FARMS PROPERTY BOUNDARY
- DENIZE BROTHERS PROPERTY BOUNDARY
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B	S92 RESPONSE UPDATE	LT	18.10.18
A	RESOURCE CONSENT	JT	15.06.18

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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.24

SCALE AT A3:	DATE:	DRAWN:	CHECKED:
1:1000	15.06.18	JT	JT
PROJECT NO:	DRAWING NO:	REVISION:	
T15022	210-24	B	