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|----------|----------------|------------|----------|----------|
| SURVEYED | SWX | 14.07.2015 | APPROVED | DATE |
| DESIGNED | LK | 11.02.2016 | | |
| DRAWN | | | | |
| CHECKED | | | | |
| APPROVED | | | | |
| REVISION | CHANGES | | CHECKED | DATE |
| 0 | ORIGINAL ISSUE | | MC | 11.02.16 |
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NOTES:

BEARING AND COORDINATE DATUM IS GEODETIC 2000
ORIGIN IS 16 MT. EDEN 800 000 mN, 400 000 mE
PROJECTION IS TRANSVERSE MERCATOR TO OBTAIN
PROJECTION DISTANCES MULTIPLY BY 0.9999

LEVELS ARE IN TERMS OF LANDS AND SURVEY
DATUM (MSL) AUCKLAND 1946

SURVEY EQUIPMENT USED: Trimble
INSTRUMENT: TRIMBLE ROBOTIC S8 1"
GPS: TRIMBLE R6/R8 SYSTEMS
PRECISE LEVELLING: TRIMBLE DINI Series 0.3mm DIGITAL
VERTICAL PLUMMING: FOIF DZJ2 LASER PLUMMIT

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CLIENT
SPINNAKER BAY LID

PROJECT
SOLWAY
285 ARA - KOTINGA

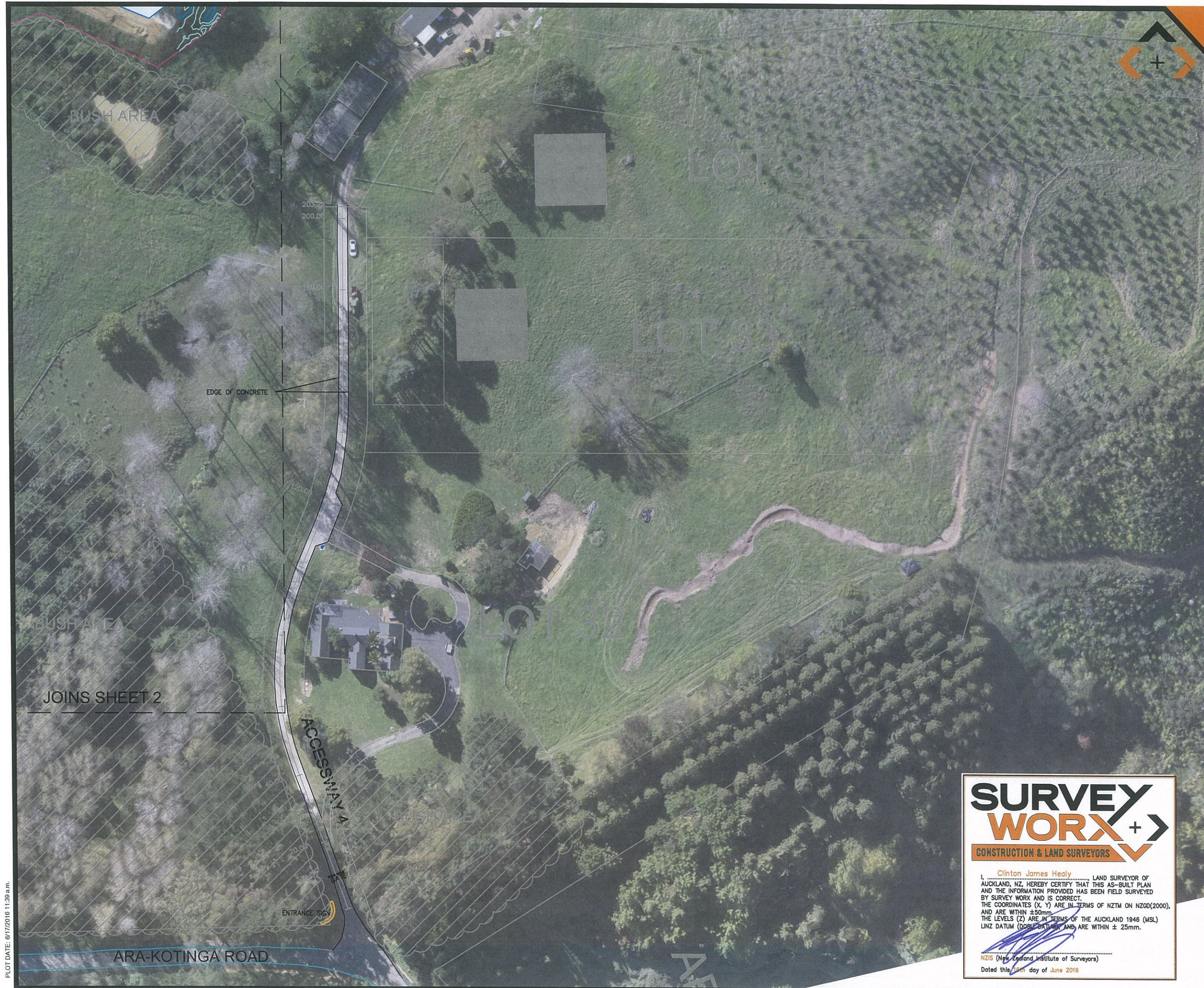
TITLE
EARTHWORKS
CUT FILL PLAN

| | | |
|------------|---------------|--------------|
| SCALE | 1:2500 (A1) | 1:5000 (A3) |
| DRAWING No | 55-932-605-18 | SHEET 1 of 1 |
| REVISION | | 2 |

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AUCKLAND, NZ, HEREBY CERTIFY THAT THIS AS-BUILT PLAN
AND THE INFORMATION PROVIDED HAS BEEN FIELD SURVEYED
BY SURVEY WORX AND IS CORRECT.
THE COORDINATES (X, Y) ARE IN TERMS OF NZTM ON NZGD(2000),
AND ARE WITHIN ±50mm.
THE LEVELS (Z) ARE IN TERMS OF THE AUCKLAND 1946 (MSL),
LINZ DATUM (POSE DATUM), AND ARE WITHIN ± 25mm.

NZIS (New Zealand Institute of Surveyors)
Dated this 10th day of June 2016



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|----------|----------------|------------|----------|----------|
| SURVEYED | SWX | 14.07.2015 | APPROVED | DATE |
| DESIGNED | | | | |
| DRAWN | LK | 14.07.2015 | | |
| CHECKED | | | | |
| APPROVED | | | | |
| REVISION | CHANGES | | CHECKED | DATE |
| 0 | ORIGINAL ISSUE | | MC | 15.07.15 |
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NOTES:

BEARING AND COORDINATE DATUM IS GEODETIC 2000
ORIGIN IS 16 MT, EDEN 800 000 mN, 400 000 mE
PROJECTION IS TRANSVERSE MERCATOR TO OBTAIN
PROJECTION DISTANCES MULTIPLY BY 0.9999


LEVELS ARE IN TERMS OF LANDS AND SURVEY
DATUM (MSL) AUCKLAND 1946

SURVEY EQUIPMENT USED:
INSTRUMENT: TRIMBLE ROBOTIC S8 1"
GPS: TRIMBLE R6/R8 SYSTEMS
PRECISE LEVELLING: TRIMBLE Dini Series 0.3mm DIGITAL
VERTICAL PLUMMING: FOIF DZJ2 LASER PLUMMIT

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CLIENT

SPINNAKER BAY LID

PROJECT

SOLWAY
285 ARA - KOTINGA

TITLE


EARTHWORKS
CUT FILL PLAN

SCALE 1:500 (A1) 1:1000 (A3)

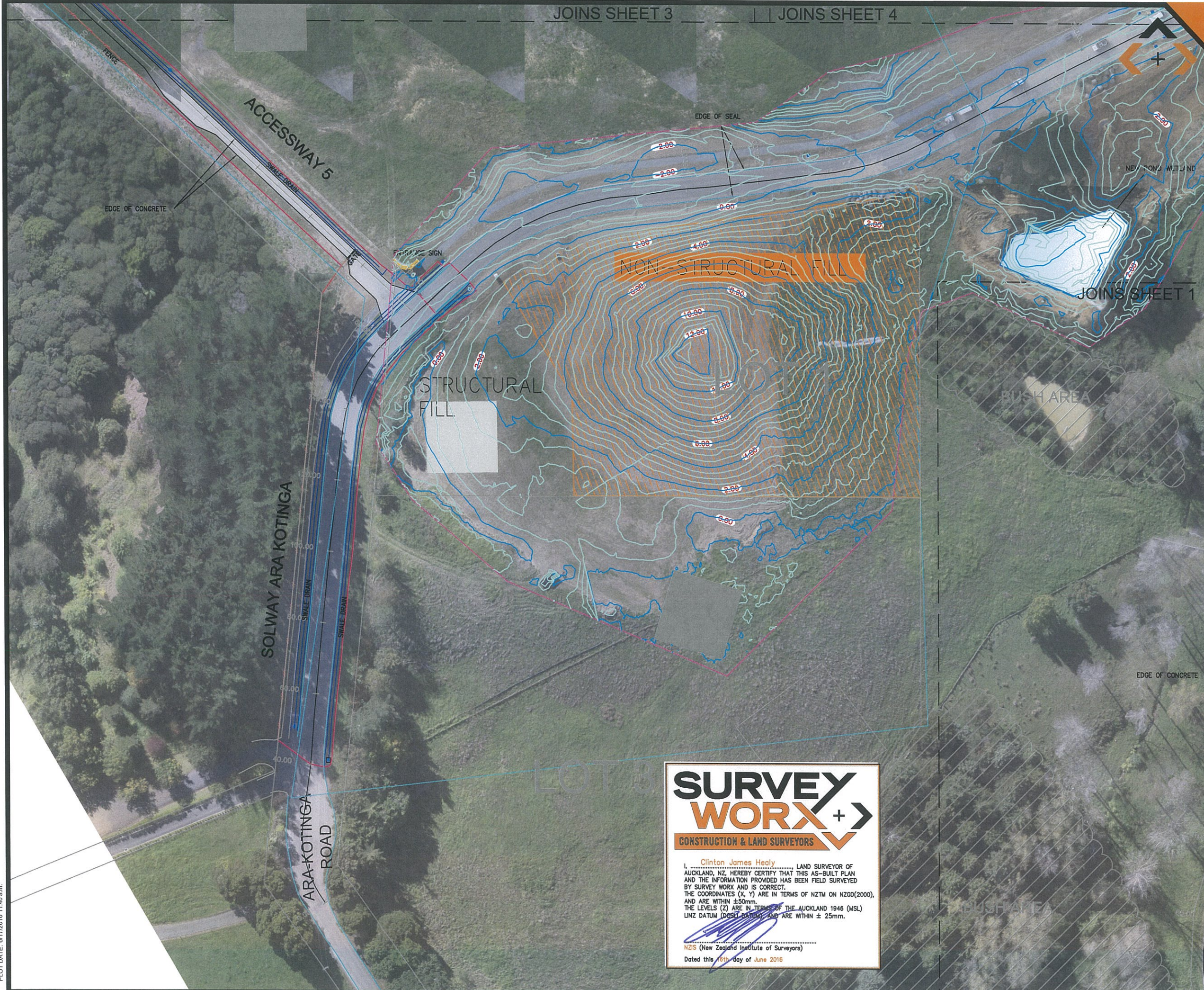
DRAWING No 55-932-605-18 **SHEET** 1 of 9 **REVISION** 2

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I, CLINTON JAMES HEALY, LAND SURVEYOR OF
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AND THE INFORMATION PROVIDED HAS BEEN FIELD SURVEYED
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THE COORDINATES (X, Y) ARE IN TERMS OF NZTM ON NZGD(2000),
AND ARE WITHIN ±50mm.
THE LEVELS (Z) ARE IN TERMS OF THE AUCKLAND 1946 (MSL)
LINZ DATUM (DOGS DATUM), AND ARE WITHIN ± 25mm.


NZIS (New Zealand Institute of Surveyors)
Dated this 15th day of June 2016

PLOT DATE: 04/17/2016 11:30 a.m.



JOINS SHEET 3

JOINS SHEET 4

JOINS SHEET 1

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|----------|----------------|------------|----------|----------|
| SURVEYED | SWX | 14.07.2015 | APPROVED | DATE |
| DESIGNED | LK | 14.07.2015 | | |
| DRAWN | | | | |
| CHECKED | | | | |
| APPROVED | | | | |
| REVISION | CHANGES | | CHECKED | DATE |
| 0 | ORIGINAL ISSUE | | MC | 15.07.15 |
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NOTES:

BEARING AND COORDINATE DATUM IS GEODETIC 2000
ORIGIN IS 16 MT. EDEN 800 000 mN, 400 000 mE
PROJECTION IS TRANSVERSE MERCATOR TO OBTAIN
PROJECTION DISTANCES MULTIPLY BY 0.9999

LEVELS ARE IN TERMS OF LANDS AND SURVEY
DATUM (MSL) AUCKLAND 1946

SURVEY EQUIPMENT USED:
INSTRUMENT: TRIMBLE ROBOTIC S8 1"
GPS: TRIMBLE R6/R8 SYSTEMS
PRECISE LEVELLING: TRIMBLE DINI Series 0.3mm DIGITAL
VERTICAL PLUMBING: FOIF DZJ2 LASER PLUMMIT

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SPINNAKER BAY LID

PROJECT

SOLWAY
285 ARA - KOTINGA


TITLE

EARTHWORKS
CUT FILL PLAN

| | | |
|------------|---------------|--------------|
| SCALE | 1:500 (A1) | 1:1000 (A3) |
| DRAWING No | 55-932-605-18 | SHEET 2 OF 9 |
| REVISION | | 2 |

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AND ARE WITHIN ±50mm.
THE LEVELS (Z) ARE IN TERMS OF THE AUCKLAND 1946 (MSL)
LINZ DATUM (DOCS DATUM) AND ARE WITHIN ± 25mm.


NZIS (New Zealand Institute of Surveyors)
Dated this 16th day of June 2016

PLOT DATE: 01/12/2016 11:40 a.m.




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|----------|----------------|------------|----------|----------|
| SURVEYED | SWX | 14.07.2015 | APPROVED | DATE |
| DESIGNED | | | | |
| DRAWN | LK | 14.07.2015 | | |
| CHECKED | | | | |
| APPROVED | | | | |
| REVISION | CHANGES | | CHECKED | DATE |
| 0 | ORIGINAL ISSUE | | MC | 15.07.15 |
| 1 | UPDATED | | MC | 21.07.15 |
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NOTES:

BEARING AND COORDINATE DATUM IS GEODETIC 2000
ORIGIN IS 16 MT. EDEN 800 000 mN, 400 000 mE
PROJECTION IS TRANSVERSE MERCATOR TO OBTAIN
PROJECTION DISTANCES MULTIPLY BY 0.9999

LEVELS ARE IN TERMS OF LANDS AND SURVEY
DATUM (MSL) AUCKLAND 1946

SURVEY EQUIPMENT USED: 
INSTRUMENT: TRIMBLE ROBOTIC S8 1"
GPS: TRIMBLE R6/R8 SYSTEMS
PRECISE LEVELLING: TRIMBLE DINI Series 0.3mm DIGITAL
VERTICAL PLUMMING: FOIF DZJ2 LASER PLUMMIT

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SPINNAKER BAY LID


PROJECT

SOLWAY
285 ARA - KOTINGA

TITLE


EARTHWORKS
CUT FILL PLAN

| | | |
|------------|---------------|--------------|
| SCALE | 1:500 (A1) | 1:1000 (A3) |
| DRAWING No | 55-932-605-18 | SHEET 3 of 9 |
| REVISION | | 2 |



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THE LEVELS (Z) ARE IN TERMS OF THE AUCKLAND 1946 (MSL) LINZ DATUM (DORSI DATUM), AND ARE WITHIN ± 25mm.


NZIS (New Zealand Institute of Surveyors)
Dated this 16th day of June 2016

PLOT DATE: 6/17/2016 11:41 a.m.

JOINS SHEET 5

LOT 504

[illegible]

➤NOTES:

BEARING AND COORDINATE DATUM IS GEODETIC 2000
ORIGIN IS 16 MT. EDEN 800 000 mN, 400 000 mE
PROJECTION IS TRANSVERSE MERCATOR TO OBTAIN
PROJECTION DISTANCES MULTIPLY BY 0.9999

LEVELS ARE IN TERMS OF LANDS AND SURVEY
DATUM (MSL) AUCKLAND 1946

SURVEY EQUIPMENT USED:
INSTRUMENT: TRIMBLE ROBOTIC S8 1"
GPS: TRIMBLE R6/R8 SYSTEMS
PRECISE LEVELLING: TRIMBLE DINI Series 0.3mm DIGITAL
VERTICAL PLUMMING: FOIF DJJ2 LASER PLUMMIT

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SPINNAKER BAY LID

➤ PROJECT


SOLWAY
285 ARA - KOTINGA

➤ TITLE

EARTHWORKS CUT FILL PLAN

➤ SCALE 1:500 (A1) 1:1000 (A3)

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|---------------|---------|------------|
| ➤ DRAWING No | ➤ SHEET | ➤ REVISION |
| 55-932-605-18 | 4 of 9 | 2 |



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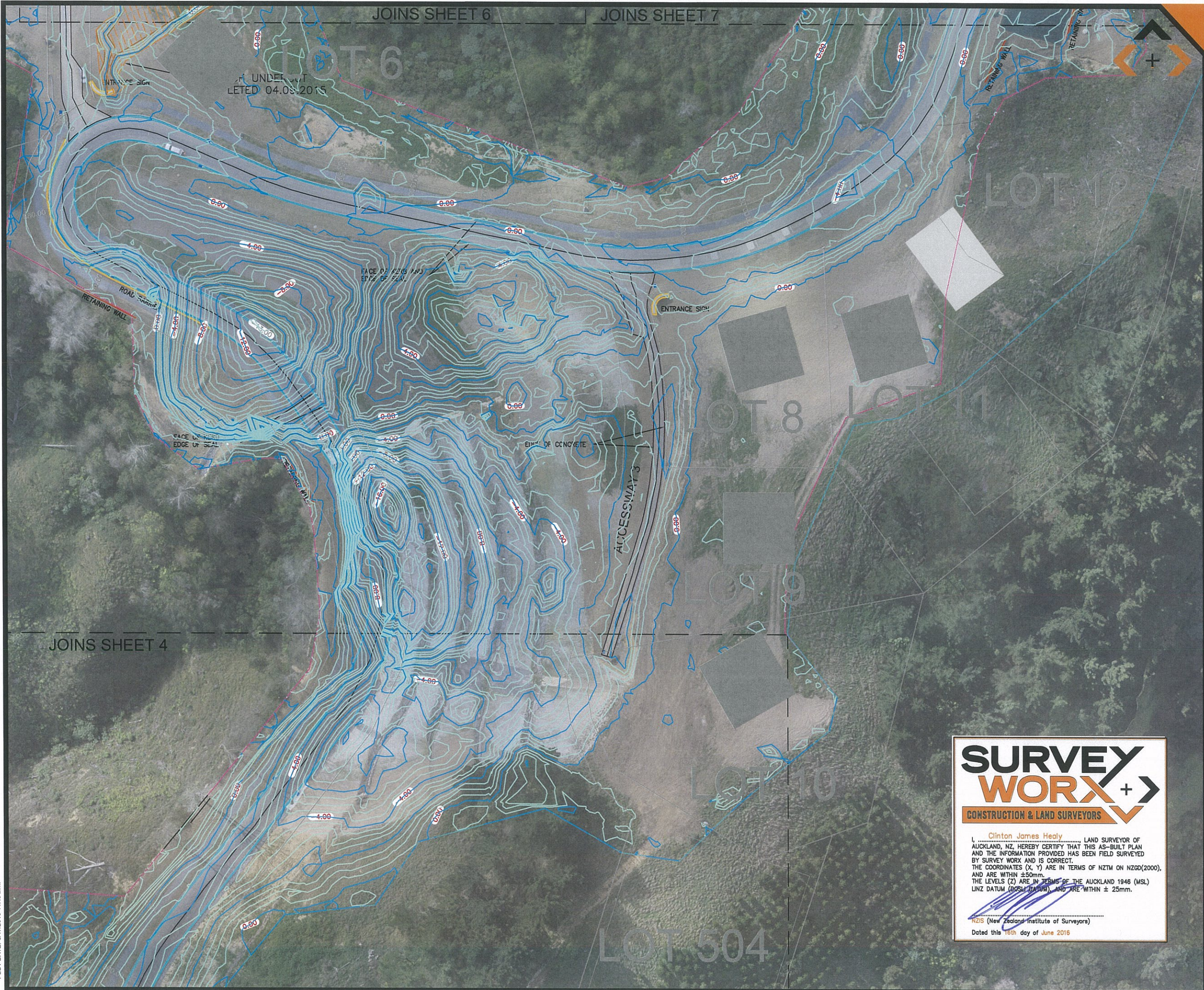
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 BY SURVEY WORK AND IS CORRECT.
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 AND ARE WITHIN $\pm 50\text{mm}$.
 THE LEVELS (Z) ARE IN TERMS OF THE AUCKLAND 1946 (MSL)
 LINZ DATUM (1946 DATUM), AND ARE WITHIN $\pm 25\text{mm}$.

NZIS (New Zealand Institute of Surveyors)
Dated this 18th day of June 2016

JOINS SHEET 2

FILE PATH: P:\DEMPSEY WOOD (55)\001 SURVEY WORX -PROJECTS\ARA KOTINGA 932\STAGE 2 ASBUILT\55-932-1105-18 ARA K - STAGE 2 CUT FILL REV 2 0.5M INTERVAL.DWG

PLOT DATE: 6/17/2016 11:42 a.m.



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|----------|----------------|------------|----------|----------|
| SURVEYED | SWX | 14.07.2015 | APPROVED | DATE |
| DRAWN | LK | 14.07.2015 | | |
| CHECKED | | | | |
| APPROVED | | | | |
| REVISION | CHANGES | | CHECKED | DATE |
| 0 | ORIGINAL ISSUE | | MC | 15.07.15 |
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NOTES:

BEARING AND COORDINATE DATUM IS GEODETIC 2000
ORIGIN IS 16 MT. EDEN 800 000 mN, 400 000 mE
PROJECTION IS TRANSVERSE MERCATOR TO OBTAIN
PROJECTION DISTANCES MULTIPLY BY 0.9999

LEVELS ARE IN TERMS OF LANDS AND SURVEY
DATUM (MSL) AUCKLAND 1946


SURVEY EQUIPMENT USED: **Trimble**
INSTRUMENT: TRIMBLE ROBOTIC S8 1"
GPS: TRIMBLE R6/R8 SYSTEMS
PRECISE LEVELLING: TRIMBLE Dini Series 0.3mm DIGITAL
VERTICAL PLUMMING: FOIF DZJ2 LASER PLUMMIT

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CLIENT

SPINNAKER BAY LID

PROJECT


SOLWAY
285 ARA - KOTINGA

TITLE

EARTHWORKS
CUT FILL PLAN

**SURVEY
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THE COORDINATES (X, Y) ARE IN TERMS OF NZTM ON NZGD(2000),
AND ARE WITHIN ± 50 mm.
THE LEVELS (Z) ARE IN TERMS OF THE AUCKLAND 1946 (MSL)
LINZ DATUM (BOS4 DATUM), AND ARE WITHIN ± 25 mm.



NZIS (New Zealand Institute of Surveyors)
Dated this 15th day of June 2016

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|------------|---------------|--------------|
| SCALE | 1:500 (A1) | 1:1000 (A3) |
| DRAWING No | 55-932-605-18 | SHEET 5 OF 9 |
| REVISION | | 2 |

PLOT DATE: 01/17/2016 11:43 a.m.



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|----------|-----|------------|----------|------|
| SURVEYED | SWX | 14.07.2015 | APPROVED | DATE |
| DESIGNED | | | | |
| DRAWN | LK | 14.07.2015 | | |
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| APPROVED | | | | |

| REVISION | CHANGES | CHECKED | DATE |
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| 0 | ORIGINAL ISSUE | MC | 15.07.15 |
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NOTES:

BEARING AND COORDINATE DATUM IS GEODETIC 2000
ORIGIN IS 16 MT. EDEN 800 000 mN, 400 000 mE
PROJECTION IS TRANSVERSE MERCATOR TO OBTAIN
PROJECTION DISTANCES MULTIPLY BY 0.9999

LEVELS ARE IN TERMS OF LANDS AND SURVEY
DATUM (MSL) AUCKLAND 1946

SURVEY EQUIPMENT USED:
INSTRUMENT: TRIMBLE ROBOTIC S8 1"
GPS: TRIMBLE R6/R8 SYSTEMS
PRECISE LEVELLING: TRIMBLE DiNi Series 0.3mm DIGITAL
VERTICAL PLUMMING: FOIF DZJ2 LASER PLUMMIT

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SPINNAKER BAY LID

PROJECT
SOLWAY
285 ARA - KOTINGA

TITLE
EARTHWORKS
CUT FILL PLAN

SCALE 1:500 (A1) 1:1000 (A3)

DRAWING No 55-932-605-18 **SHEET** 6 of 9 **REVISION** 2

SURVEY WORX+

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THE COORDINATES (X, Y) ARE IN TERMS OF NZTM ON NZGD(2000), AND ARE WITHIN $\pm 50\text{mm}$.
THE LEVELS (Z) ARE IN TERMS OF THE AUCKLAND 1946 (MSL) LINZ DATUM (BOSU DATUM), AND ARE WITHIN $\pm 25\text{mm}$.

NZIS (New Zealand Institute of Surveyors)
Dated this 18th day of June 2016

JOINS SHEET 6

| | | | | |
|----------|----------------|------------|----------|----------|
| SURVEYED | SWX | 14.07.2015 | APPROVED | DATE |
| DESIGNED | | | | |
| DRAWN | LK | 14.07.2015 | | |
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| APPROVED | | | | |
| REVISION | CHANGES | | CHECKED | DATE |
| 0 | ORIGINAL ISSUE | | MC | 15.07.15 |
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NOTES:

BEARING AND COORDINATE DATUM IS GEODETTIC 2000
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LEVELS ARE IN TERMS OF LANDS AND SURVEY
DATUM (MSL) AUCKLAND 1946

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PROJECT

SOLWAY
285 ARA - KOTINGA

TITLE

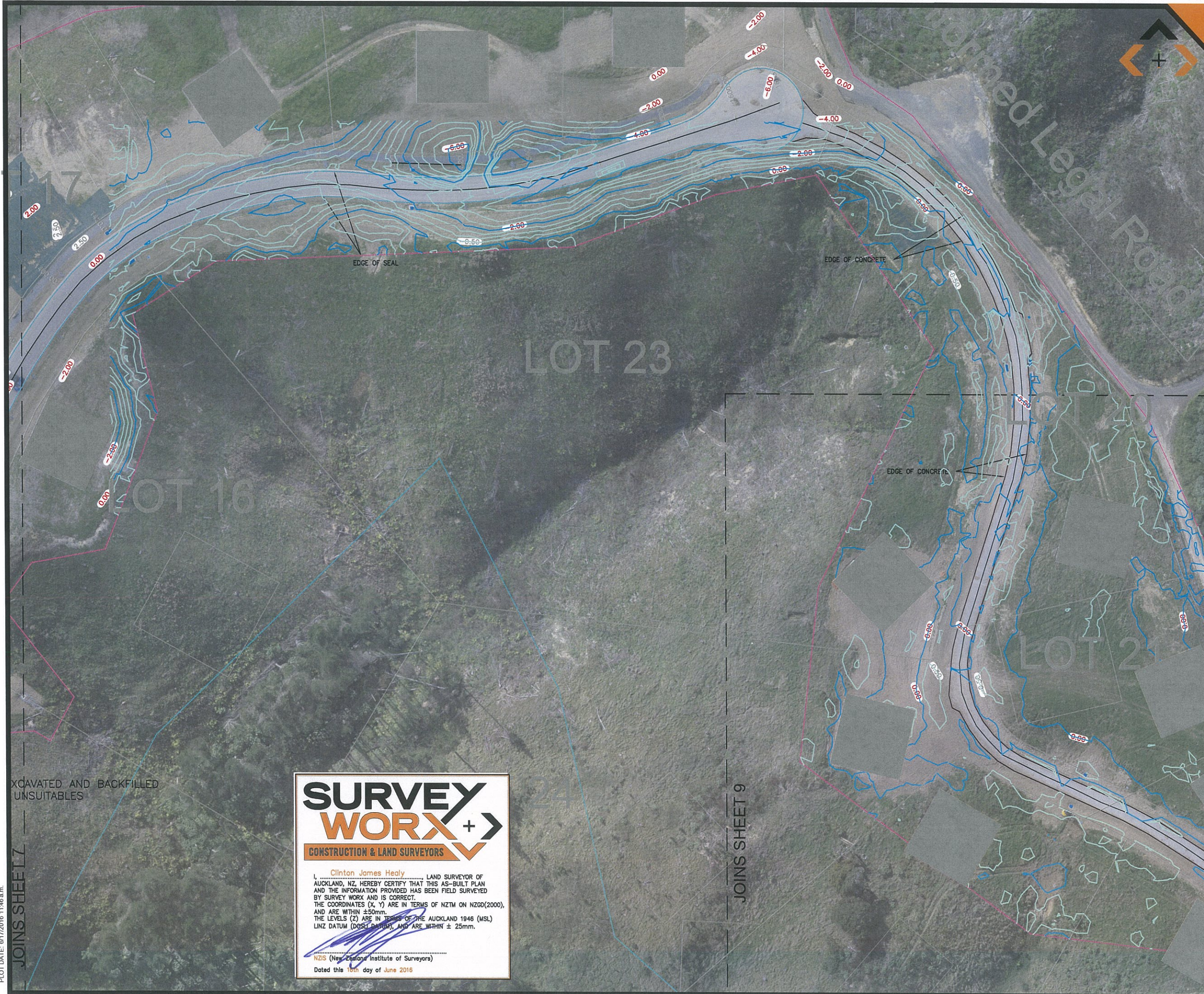
EARTHWORKS
CUT FILL PLAN

SCALE 1:500 (A1) 1:1000 (A3)

DRAWING No 55-932-605-18 SHEET 7 of 9 REVISION 2

PLOT DATE: 01/17/2016 11:45 a.m.

FILE PATH: P:\DEMPSEY WOOD (55)\001 SURVEY WORX -PROJECTS\ARA KOTINGA 932\STAGE 2 ASBUILT\55-932-1105-18 ARA K - STAGE 2 CUT FILL REV 2_0.5M INTERVAL.DWG



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| SURVEYED | SWX | 14.07.2015 | APPROVED | DATE |
| DESIGNED | | | | |
| DRAWN | LK | 14.07.2015 | | |
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| APPROVED | | | | |

| REVISION | CHANGES | CHECKED | DATE |
|----------|----------------|---------|----------|
| 0 | ORIGINAL ISSUE | MC | 15.07.15 |
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DATUM (MSL) AUCKLAND 1946

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PROJECT

SOLWAY
285 ARA - KOTINGA

TITLE

EARTHWORKS
CUT FILL PLAN

| | | |
|------------|---------------|--------------|
| SCALE | 1:500 (A1) | 1:1000 (A3) |
| DRAWING No | 55-932-605-18 | SHEET 8 of 9 |
| REVISION | | 2 |

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Clinton James Healy

I, Clinton James Healy, LAND SURVEYOR OF
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THE COORDINATES (X, Y) ARE IN TERMS OF NZTM ON NZGD(2000),
AND ARE WITHIN ±50mm.
THE LEVELS (Z) ARE IN TERMS OF THE AUCKLAND 1946 (MSL)
LINZ DATUM (DOST DATUM), AND ARE WITHIN ± 25mm.

NZIS (New Zealand Institute of Surveyors)
Dated this 10th day of June 2015

EXCAVATED AND BACKFILLED
UNSUITABLES

JOINS SHEET 7

JOINS SHEET 9

PLOT DATE: 6/17/2016 11:46 a.m.



PLOT DATE: 01/12/2016 11:47 a.m.



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| SURVEYED | SWX | 14.07.2015 | APPROVED | DATE |
| DESIGNED | | | | |
| DRAWN | LK | 14.07.2015 | | |
| CHECKED | | | | |
| APPROVED | | | | |
| REVISION | CHANGES | | CHECKED | DATE |
| 0 | ORIGINAL ISSUE | | MC | 15.07.15 |
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NOTES:

BEARING AND COORDINATE DATUM IS GEODETTIC 2000
ORIGIN IS 16 MT. EDEN 800 000 mN, 400 000 mE
PROJECTION IS TRANSVERSE MERCATOR TO OBTAIN
PROJECTION DISTANCES MULTIPLY BY 0.9999

LEVELS ARE IN TERMS OF LANDS AND SURVEY
DATUM (MSL) AUCKLAND 1946

SURVEY EQUIPMENT USED: Trimble
INSTRUMENT: TRIMBLE ROBOTIC S8 1"
GPS: TRIMBLE R6/R8 SYSTEMS
PRECISE LEVELLING: TRIMBLE DiNi Series 0.3mm DIGITAL
VERTICAL PLUMMING: FOIF DZJ2 LASER PLUMMIT

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MEMBERS OF:
NZIS
New Zealand
Institute of Surveyors
Te Kaitiaki o Aotearoa

CLIENT

SPINNAKER BAY LID

PROJECT

SOLWAY
285 ARA - KOTINGA

TITLE

EARTHWORKS
CUT FILL PLAN

| | | |
|------------|---------------|--------------|
| SCALE | 1:500 (A1) | 1:1000 (A3) |
| DRAWING No | 55-932-605-18 | SHEET 9 of 9 |
| REVISION | | 2 |

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I, Clinton James Healy, LAND SURVEYOR OF
AUCKLAND, NZ, HEREBY CERTIFY THAT THIS AS-BUILT PLAN
AND THE INFORMATION PROVIDED HAS BEEN FIELD SURVEYED
BY SURVEY WORX AND IS CORRECT.
THE COORDINATES (X, Y) ARE IN TERMS OF NZTM ON NZGD(2000),
AND ARE WITHIN ±50mm.
THE LEVELS (Z) ARE IN TERMS OF THE AUCKLAND 1946 (MSL)
LINZ DATUM (DOSS DATUM), AND ARE WITHIN ± 25mm.

NZIS (New Zealand Institute of Surveyors)
Dated this 16th day of June 2016