

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

**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

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

EARTHWORKS VOLUMES  
165,783m<sup>3</sup>  
167,487m<sup>3</sup>

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AND ARE WITHIN ±50mm.  
THE LEVELS (Z) ARE IN TERMS OF THE AUCKLAND 1946 (MSL)  
LINZ DATUM (2000 DATUM), AND ARE WITHIN ± 25mm.

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

PLOT DATE: 6/17/2016 11:40 a.m.





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

NOTES:

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PROJECTION IS TRANSVERSE MERCATOR TO OBTAIN  
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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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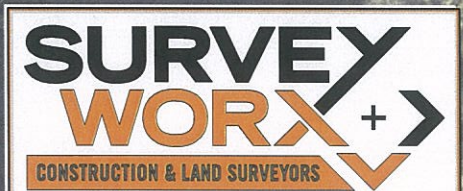
SPINNAKER BAY LID

PROJECT

SOLWAY  
285 ARA - KOTINGA


TITLE

EARTHWORKS  
CUT FILL PLAN



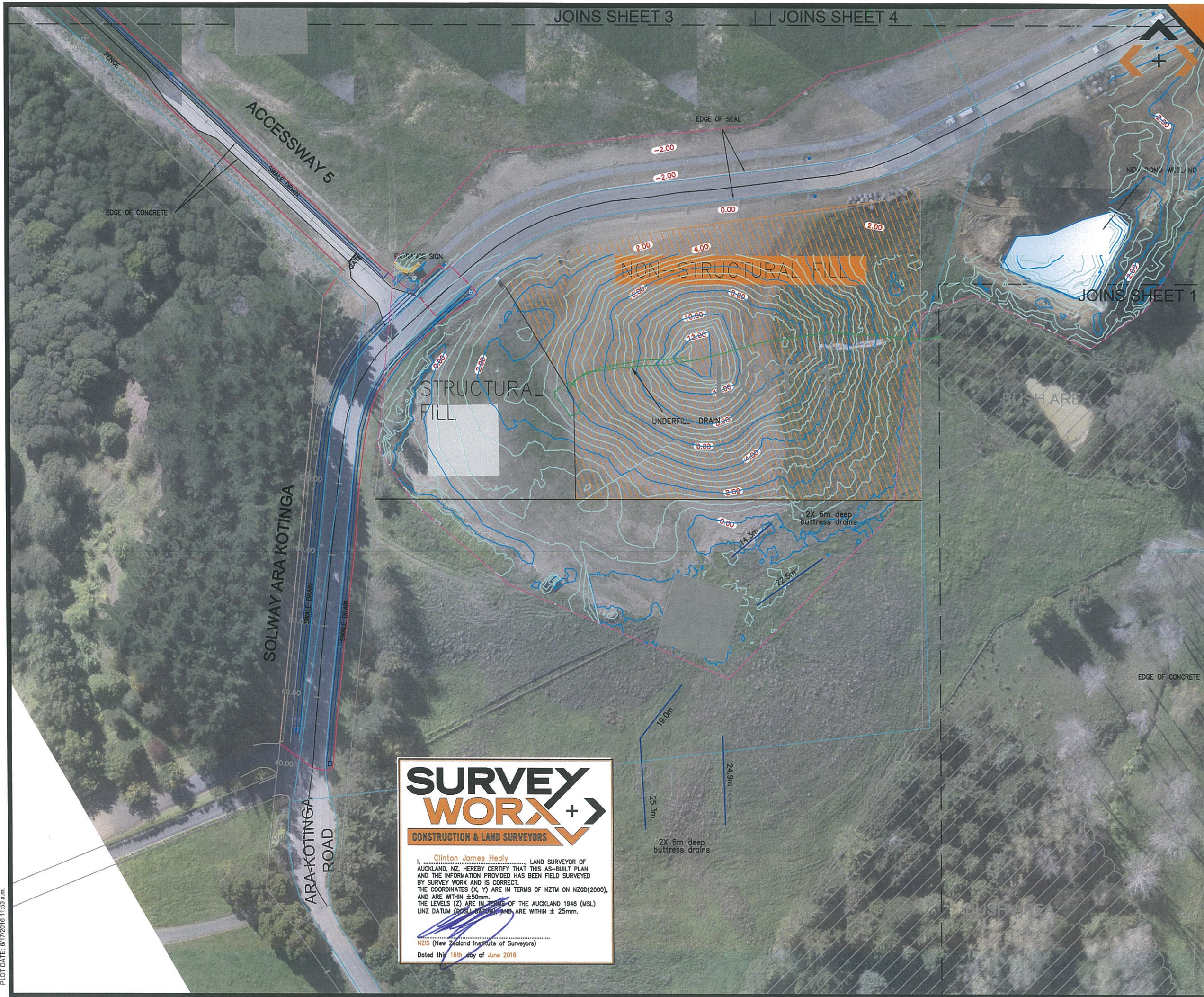
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THE COORDINATES (X, Y) ARE IN TERMS OF NZTM ON NZGD(2000), AND ARE WITHIN ±50mm.  
THE LEVELS (Z) ARE IN TERMS OF THE AUCKLAND 1946 (MSL) LINZ DATUM (DOSH DATUM), AND ARE WITHIN ± 25mm.

  
NZIS (New Zealand Institute of Surveyors)  
Dated this 18th day of June 2015

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





SURVEYED	SWX	14.07.2015	APPROVED	DATE
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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 PLUMMIT: FOIF DZJ2 LASER PLUMMIT

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SOLWAY  
285 ARA - KOTINGA

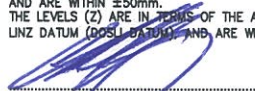
TITLE

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.  
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LINZ DATUM (DPS) DATUM AND ARE WITHIN ± 25mm.

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



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NZIS (New Zealand Institute of Surveyors)

Dated this 16th day of June 2016

2X 5m deep  
buttress drains

16.4m

16.8m

13.3m

2X 6m deep  
buttress drains

20.7m

19.9m

18.2m

2X 5m deep  
buttress drains

37.4m

METAL ACCESSWAY 6

17.3m

24.4m

3X 5m deep  
buttress drains

1X 5m deep  
buttress drains

11.4m

17.2m

16.5m


2X 5m deep  
buttress drains

SURVEYED	SWX	14.07.2015	APPROVED	DATE
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APPROVED				
REVISION	CHANGES		CHECKED	DATE
0	ORIGINAL ISSUE		MC	15.07.15
1	UPDATED		MC	21.07.15

## 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 0.99999

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 PLUMMIT: 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 3 of 9 REVISION 2



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  
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## CLIENT

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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 4 of 9	> REVIS 2
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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 (DOST DATUM) AND ARE WITHIN  $\pm 25\text{mm}$ .

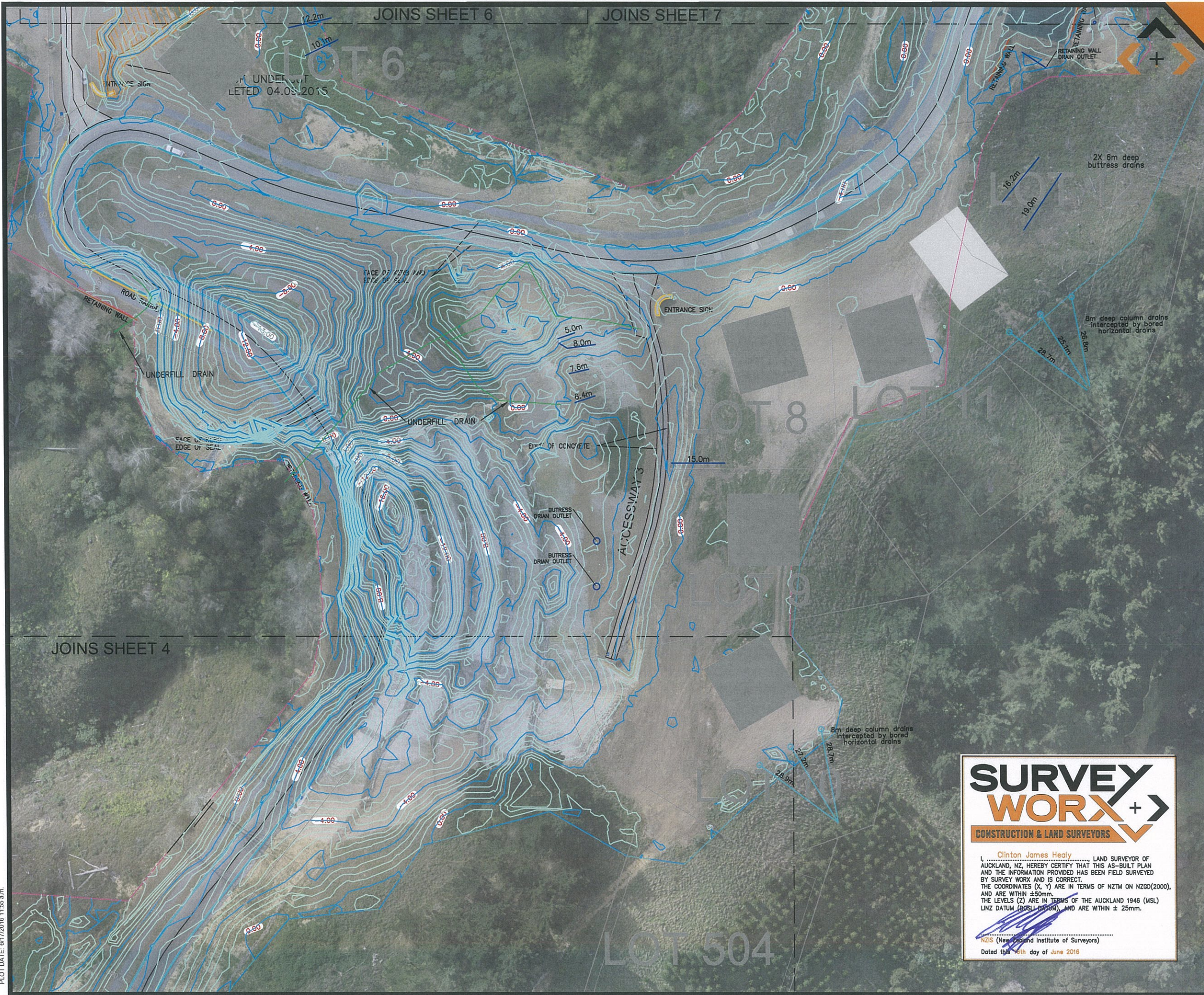
NZIS (New Zealand Institute of Surveyors)  
Dated this 16th day of June 2016

PLOT DATE: 6/17/2016 11:55 a.m.

JOINS SHEET 2

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





SURVEYED	SWX	14.07.2015	APPROVED	DATE
DESIGNED	LK	14.07.2015		
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CHECKED				
APPROVED				
REVISION	CHANGES		CHECKED	DATE
0	ORIGINAL ISSUE		MC	15.07.15

**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:**  
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GPS: TRIMBLE R6/R8 SYSTEMS  
PRECISE LEVELLING: TRIMBLE DINI Series 0.3mm DIGITAL  
VERTICAL PLUMMIT: FOIF DZJ2 LASER PLUMMIT

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**CLIENT**

SPINNAKER BAY LID

**PROJECT**


SOLWAY  
285 ARA - KOTINGA

**TITLE**

EARTHWORKS  
CUT FILL PLAN

**SURVEY WORX+**  
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AND ARE WITHIN ±50mm.  
THE LEVELS (Z) ARE IN TERMS OF THE AUCKLAND 1946 (MSL)  
LNZ DATUM (BOSLI 0.000), AND ARE WITHIN ± 25mm.

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

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



PLOT DATE: 04/17/2016 11:56 a.m.



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

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

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

**NOTES:**

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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 6 of 9
REVISION		2



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

JOINS SHEET 6

SURVEYED	SWX	14.07.2015	APPROVED	DATE
DESIGNED	LK	14.07.2015		
DRAWN				
CHECKED				
APPROVED				
REVISION	CHANGES		CHECKED	DATE
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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 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 7 of 9
REVISION		2

PLOT DATE: 6/17/2016 11:57 a.m.











SURVEYED	SWX	14.07.2015	APPROVED	DATE
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**Trimble**

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**PROJECT**

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285 ARA - KOTINGA

**TITLE**

EARTHWORKS  
CUT FILL PLAN

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

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LINZ DATUM (DOSE DATUM), AND ARE WITHIN ± 25mm.

NZIS (New Zealand Institute of Surveyors)

Dated this 16th day of June 2015