

# Cabra Developments Ltd

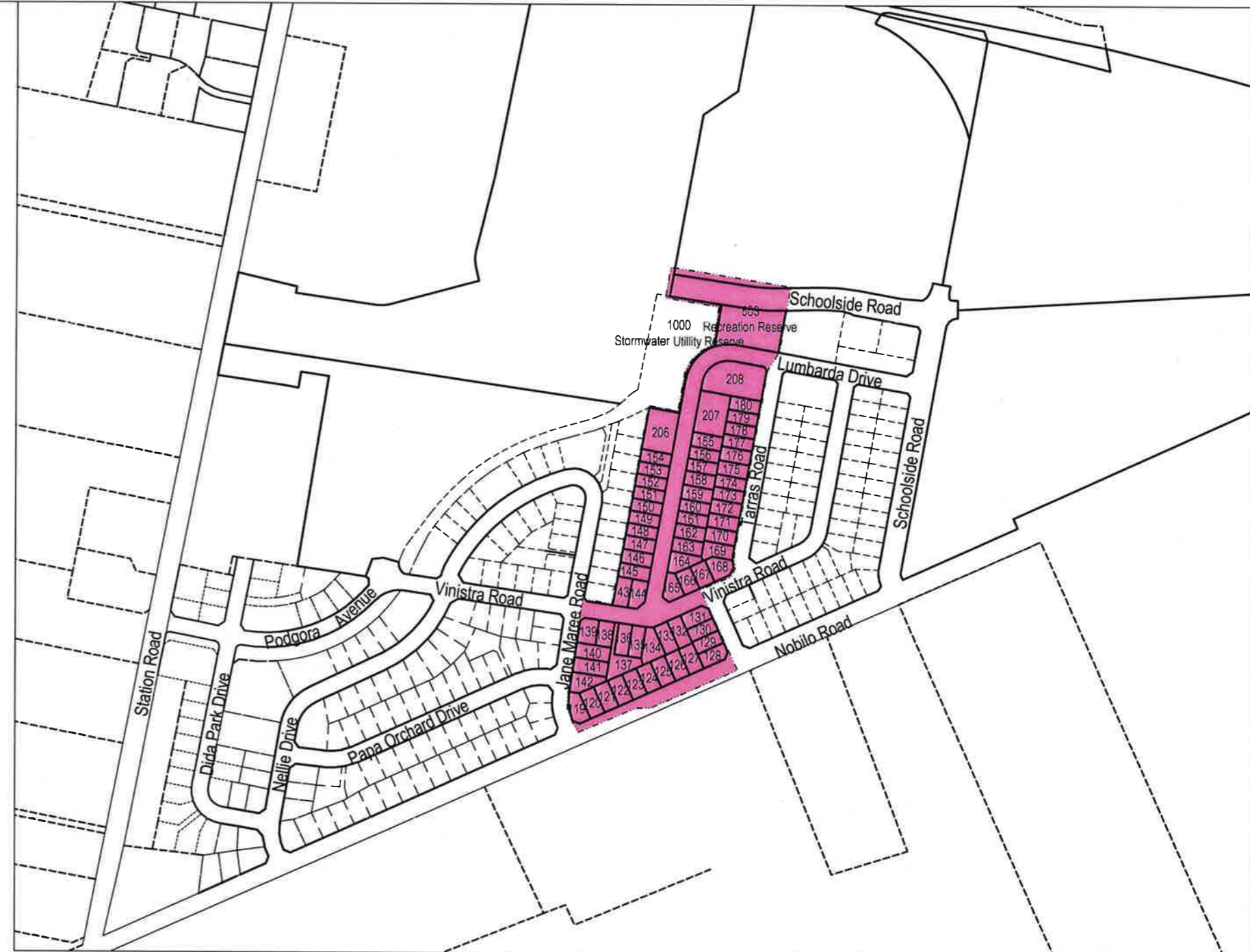
## Huapai Triangle

### Sub Precinct D

#### Stages 1 - 5

### AS BUILT PLAN SET -33659

E600	Final Contours & Retaining Walls - Sheet 1 of 5
E601	Final Contours & Retaining Walls - Sheet 2 of 5
E602	Final Contours & Retaining Walls - Sheet 3 of 5
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LOCATION DIAGRAM

Development Area

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E639	Telecommunications Plan - Sheet 2 of 2

# As Built Plans - December 2017

**CATO BOLAM CONSULTANTS**

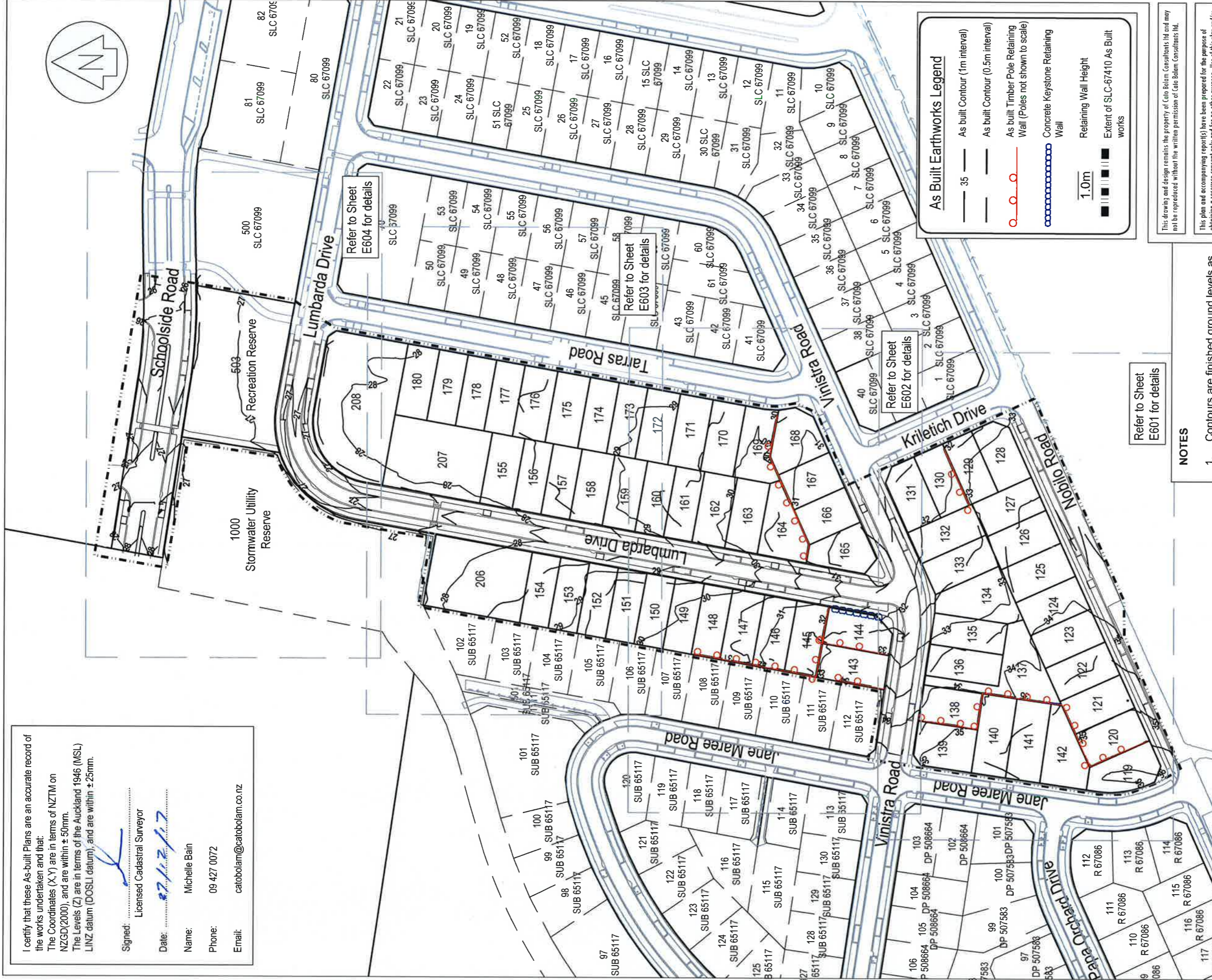
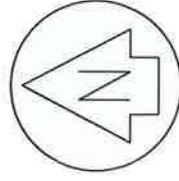
**SURVEYORS   PLANNERS   ENGINEERS**

CATO BOLAM CONSULTANTS LTD  
 19 Tameriki Avenue  
 PO Box 157  
 Orewa 0946

phone 09-427 0072  
 fax 09-426 7331  
 email [catobolam@catobolam.co.nz](mailto:catobolam@catobolam.co.nz)

I certify that these As-built Plans are an accurate record of the works undertaken and that:  
 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 (DOSLI datum), and are within ± 25mm.

Signed:  Licensed Cadastral Surveyor  
 Date: 27/12/17  
 Name: Michelle Bain  
 Phone: 09 427 0072  
 Email: catobolam@catobolam.co.nz



**As Built Earthworks Legend**

- 35 — As built Contour (1m interval)
- — — As built Contour (0.5m interval)
- As built Timber Pole Retaining Wall (Poles not shown to scale)
- Concrete Keystone Retaining Wall
- Retaining Wall Height
- Extent of SLC-67410 As Built works

1.0m

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ORIGINAL SCALE	1:1500	ORIGINAL SIZE	A3	REVISION NO	
DATE	06/12/2017	CAD REFERENCE	33659 E600-E604 Final Cont	SHEET NO	E600
DIRECTORY	Z:\33659\A\CAD\As-Built Plans			JOB NO	33659

Refer to Sheet E601 for details

Refer to Sheet E602 for details

Refer to Sheet E604 for details

Refer to Sheet E603 for details

**NOTES**

1. Contours are finished ground levels as surveyed at 10/10/2017. Contour interval of 0.5m
2. Levels are in terms of LINZ Datum 1946.
3. Coordinates are in terms of NZTM.
4. All retaining walls over 1.0m high have a pool style fence above the wall.
5. Retaining walls approved and constructed under ABA BCO10057679

DRAWING TITLE

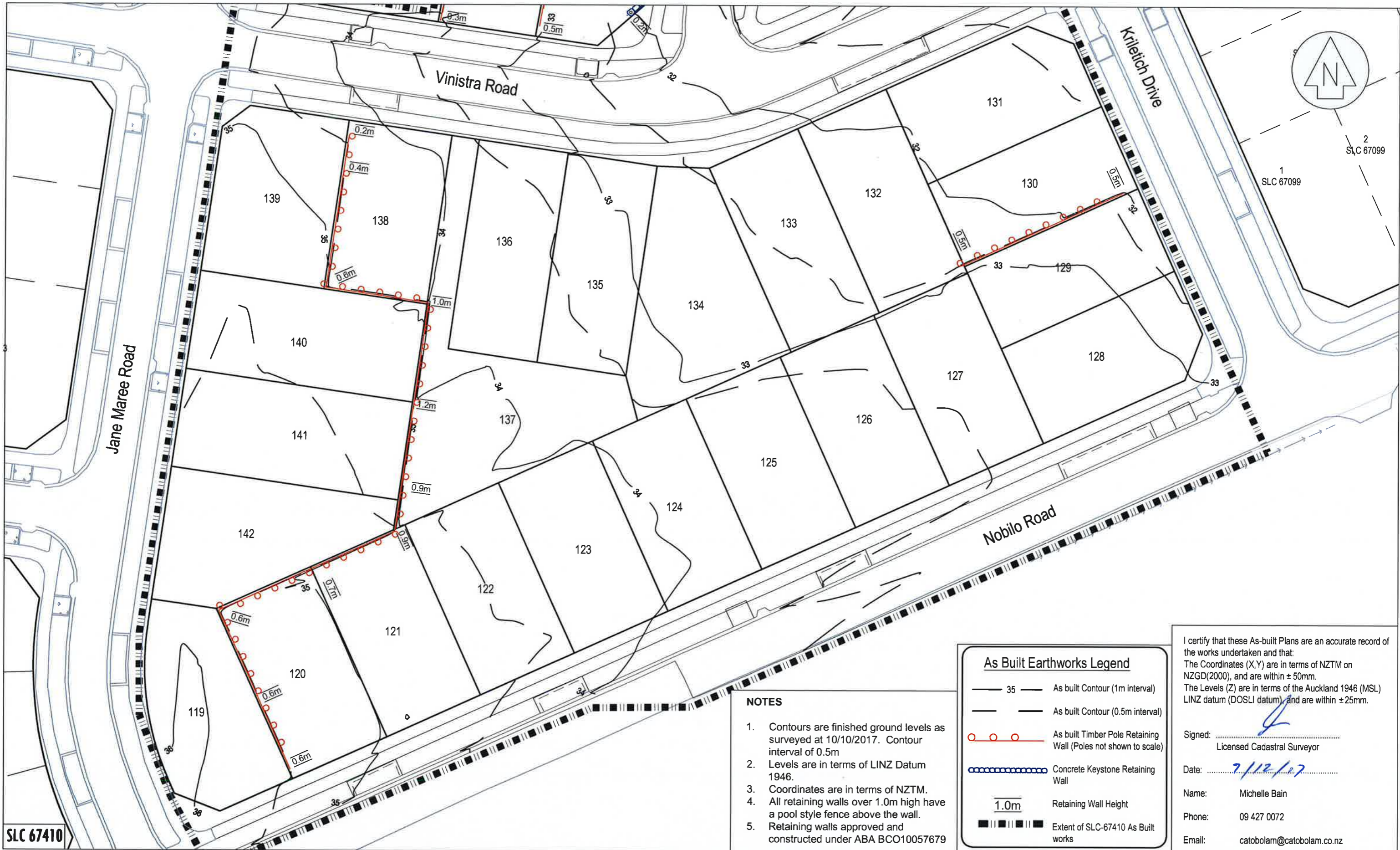
**Final Contour & Retaining Wall As Built Plan**  
 Sheet 1 of 5

CLIENT

**Cabra Developments Ltd**  
**Huapai Triangle Sub Precinct D**  
**Stages 1 - 5**  
**Huapai**

**SLC 67410**

REVISION (DESCRIPTIONS)	NAME	DATE
SURVEYED	LD	04-17
DESIGNED		
DRAWN	BJ	04-17
CHECKED	BM	04-17
APPROVED	TL	04-17



SLC 67410

**NOTES**

1. Contours are finished ground levels as surveyed at 10/10/2017. Contour interval of 0.5m
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- ● ● ● Concrete Keystone Retaining Wall
- 1.0m Retaining Wall Height
- ■ ■ ■ ■ Extent of SLC-67410 As Built works

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Signed:   
 Licensed Cadastral Surveyor  
 Date: 7/12/17  
 Name: Michelle Bain  
 Phone: 09 427 0072  
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REVISION (DESCRIPTIONS)	NAME	DATE
SURVEYED	LD	Oct-17
DESIGNED		
DRAWN	BJ	Oct-17
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APPROVED	TL	Oct-17

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CLIENT  
**Cabra Developments Ltd**  
**Huapai Triangle Sub Precinct D**  
**Stages 1 - 5**  
**Huapai**

DRAWING TITLE  
**Final Contour & Retaining Wall**  
**As Built Plan**  
**Sheet 2 of 5**

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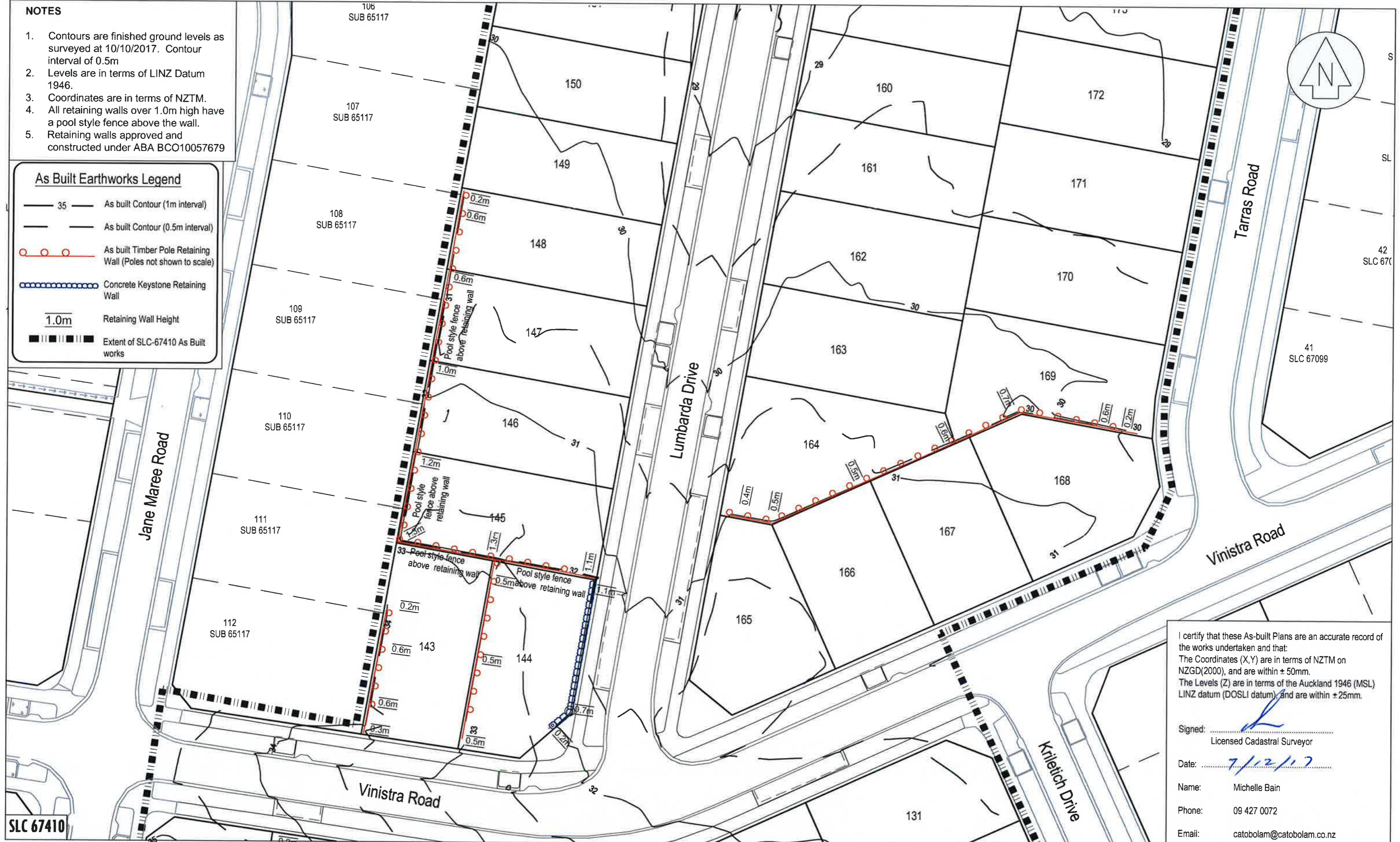
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DATE	CAD REFERENCE	SHEET NO
06/12/2017	33659 E600-E604 Final Cont	<b>E601</b>
DIRECTORY	Z:\33659\ACAD\As Built Plans	JOB NO
		<b>33659</b>

**NOTES**


1. Contours are finished ground levels as surveyed at 10/10/2017. Contour interval of 0.5m
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- 1.0m Retaining Wall Height
- ■ ■ ■ ■ Extent of SLC-67410 As Built works



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CLIENT  
**Cabra Developments Ltd**  
 Huapai Triangle Sub Precinct D  
 Stages 1 - 5  
 Huapai

DRAWING TITLE  
**Final Contour & Retaining Wall**  
 As Built Plan  
 Sheet 3 of 5

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ORIGINAL SCALE	ORIGINAL SIZE	REVISION NO
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DATE	CAD REFERENCE	SHEET NO
06/12/2017	33659 E600-E604 Final Cont	<b>E602</b>
DIRECTORY		JOB NO
Z:\33659\ACAD\As Built Plans		<b>33659</b>

**NOTES**

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**As Built Earthworks Legend**

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APPROVED		

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CLIENT  
**Cabra Developments Ltd**  
**Huapai Triangle Sub Precinct D**  
**Stages 1 - 5**  
**Huapai**

DRAWING TITLE  
**Final Contour & Retaining Wall**  
**As Built Plan**  
**Sheet 4 of 5**

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ORIGINAL SCALE 1:500	ORIGINAL SIZE A3	REVISION NO
DATE 06/12/2017	CAD REFERENCE 33659 E608-E604 Final Cont	SHEET NO <b>E603</b>
DIRECTORY Z:\33659\ACAD\As Built Plans		JOB NO <b>33659</b>

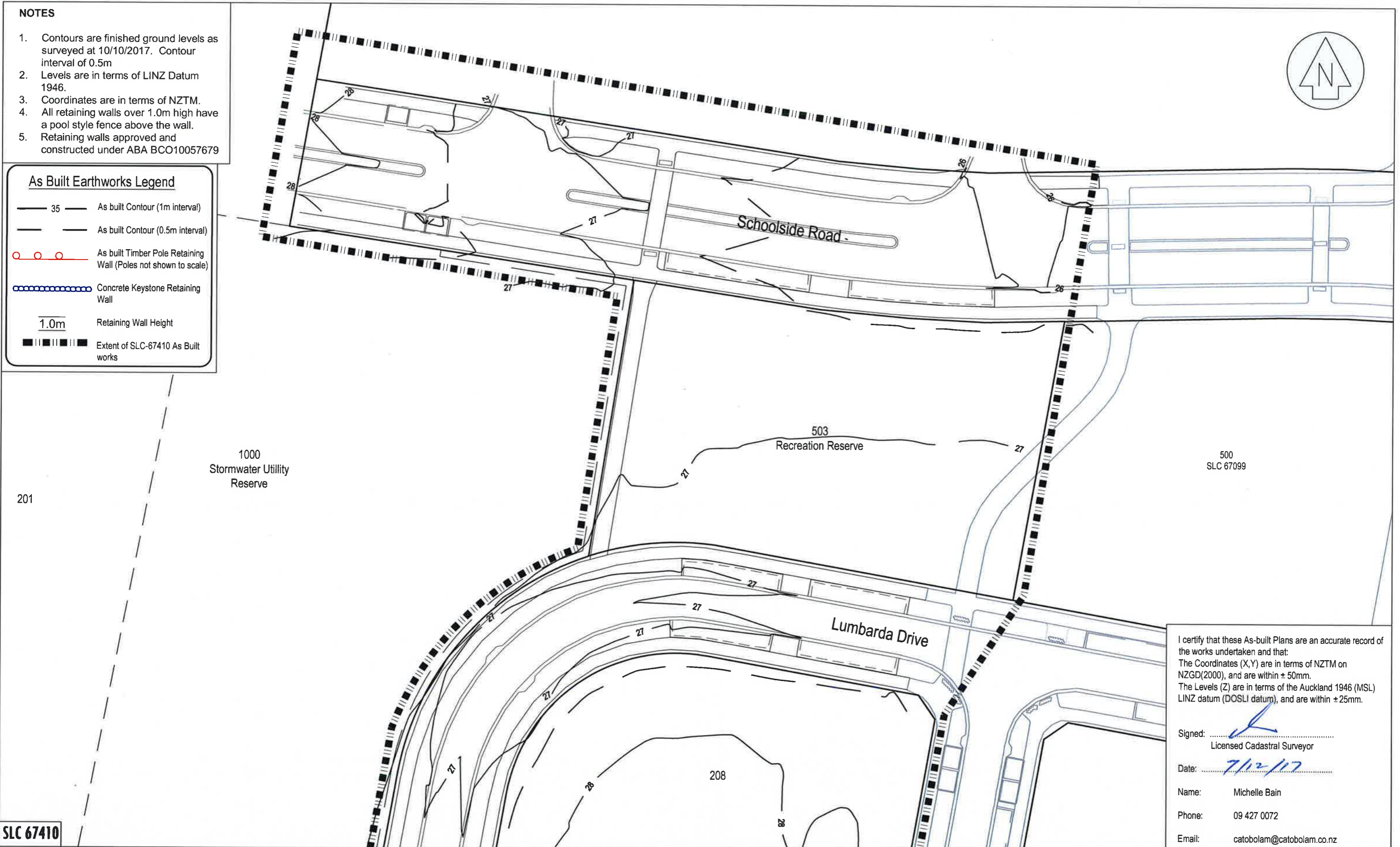
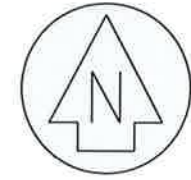
**SLC 67410**

**NOTES**

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**As Built Earthworks Legend**

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- As built Contour (0.5m interval)
- As built Timber Pole Retaining Wall (Poles not shown to scale)
- Concrete Keystone Retaining Wall
- 1.0m Retaining Wall Height
- Extent of SLC-67410 As Built works



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 Licensed Cadastral Surveyor  
 Date: 7/12/17  
 Name: Michelle Bain  
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 Email: catobolam@catobolam.co.nz

SLC 67410

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REVISION (DESCRIPTIONS)	NAME	DATE
SURVEYED	LD	Oct-17
DESIGNED		
DRAWN	BJ	Oct-17
CHECKED	BM	Oct-17
APPROVED	TL	Oct-17

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**Cabra Developments Ltd**  
**Huapai Triangle Sub Precinct D**  
**Stages 1 - 5**  
**Huapai**

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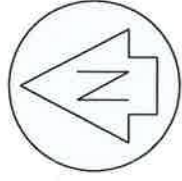
DRAWING TITLE  
**Final Contour & Retaining Wall**  
**As Built Plan**  
**Sheet 5 of 5**

ORIGINAL SCALE 1:500	ORIGINAL SIZE A3	REVISION NO
DATE 06/12/2017	CAD REFERENCE 33659 E600-E604 Final Cont	SHEET NO <b>E604</b>
DIRECTORY Z:\33659\ACAD\As Built Plans		JOB NO <b>33659</b>

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Signed:  Licensed Cadastral Surveyor  
 Date: 7/12/17  
 Name: Michelle Bain  
 Phone: 09 427 0072  
 Email: catobolam@catobolam.co.nz



**Cut to Fill Legend**

- 0 Contour
- 1.0 Cut Contours & Area
- 1.0 Fill Contours & Area
- Extent of Earthworks
- As built Timber Retaining Wall
- Concrete Key Stone Retaining Wall
- Subsoil Drainage & depth (m)

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ORIGINAL SCALE	ORIGINAL SIZE	REVISION NO
1:1500	A3	
DATE	CAD REFERENCE	SHEET NO
06/12/2017	33659 E605-E609 Cut Fill	E605
DIRECTORY		JOB NO
Z:\33659\ACAD\As Built Plans		33659

**NOTES**  
**GENERAL**

- Levels are in terms of LINZ Datum 1946.
- Coordinates are in terms of NZTM.
- All infrastructure is public unless otherwise shown.
- Cut/fill contours are from the original ground level, including any undercuts, to finished ground level as surveyed on 10/10/2017.

Refer to Sheet E606 for details

Refer to Sheet E607 for details

Refer to Sheet E609 for details

Refer to Sheet E608 for details

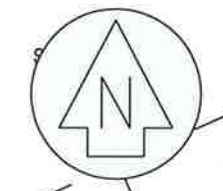
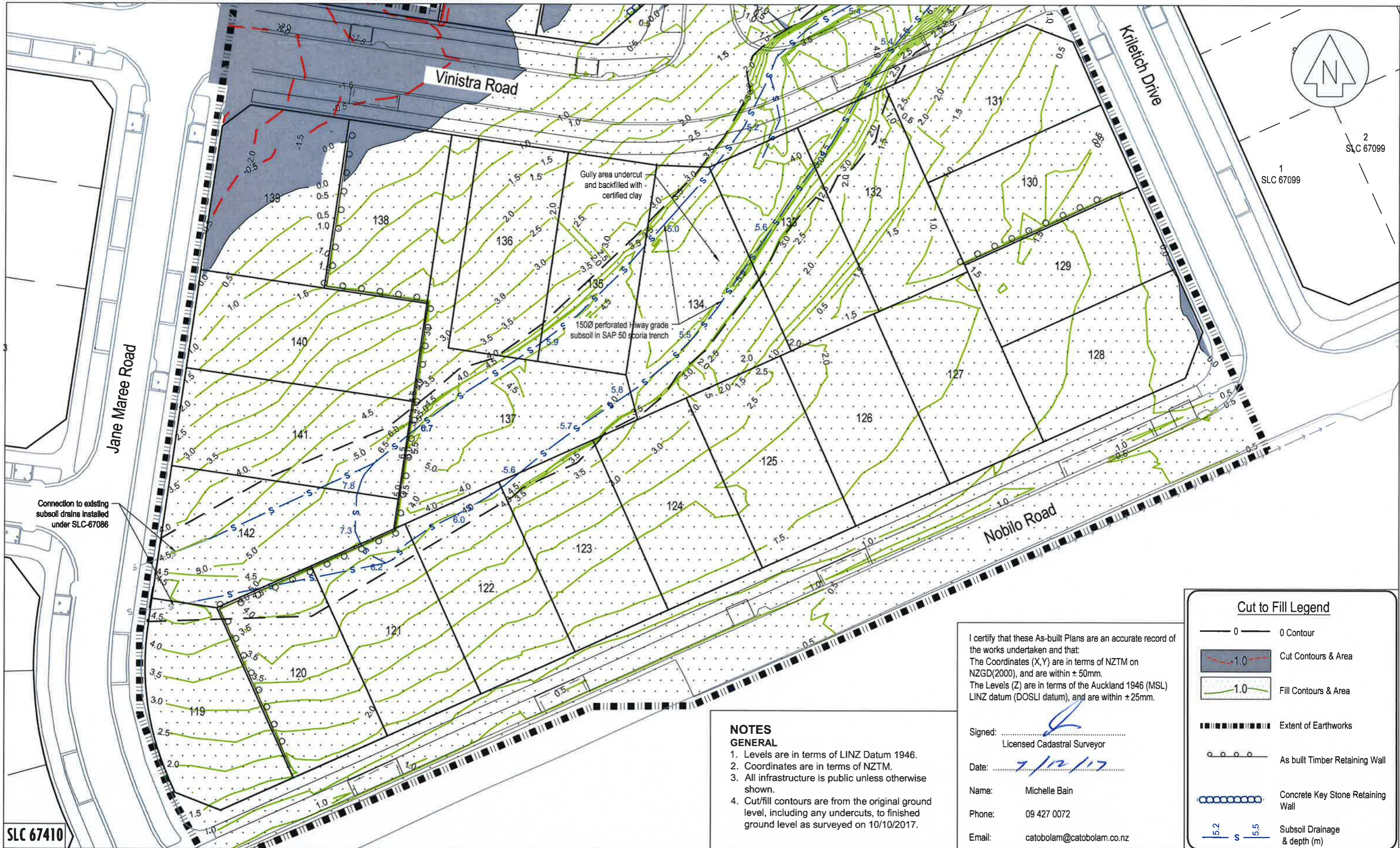
CLIENT

**Cabra Developments Ltd**  
**Huapai Triangle Sub Precinct D**  
**Stages 1 - 5**  
**Huapai**

REVISION (DESCRIPTIONS)	NAME	DATE
SURVEYED	LD	04-17
DESIGNED	BJ	04-17
DRAWN	BM	04-17
CHECKED	TL	04-17
APPROVED		

**SLC 67410**

**Cut Fill**  
**As Built Plan**  
**Sheet 1 of 5**



1  
SLC 67099

2  
SLC 67099

SLC 67410

Connection to existing  
subsoil drains installed  
under SLC-67086

Gully area undercut  
and backfilled with  
certified clay

1500 perforated highway grade  
subsoil in SAP 50 scoria trench

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Signed:   
Licensed Cadastral Surveyor

Date: 7/12/17

Name: Michelle Bain  
Phone: 09 427 0072  
Email: catobolam@catobolam.co.nz

- NOTES GENERAL**
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**Cut to Fill Legend**

- 0 Contour
- Cut Contours & Area
- Fill Contours & Area
- Extent of Earthworks
- As built Timber Retaining Wall
- Concrete Key Stone Retaining Wall
- Subsoil Drainage & depth (m)

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**Cabra Developments Ltd  
Huapai Triangle Sub Precinct D  
Stages 1 - 5  
Huapai**

DRAWING TITLE

**Cut Fill  
As Built Plan  
Sheet 2 of 5**

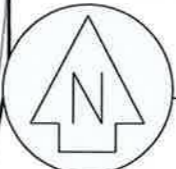
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ORIGINAL SCALE	ORIGINAL SIZE	REVISION NO
1:500	A3	
DATE	CAD REFERENCE	SHEET NO
06/12/2017	33659 E605-E609 Cut Fill	E606
DIRECTORY		JOB NO
Z:\33659\ACAD\As Built Plans		33659



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106  
SUB 65117  
107  
SUB 65117  
108  
SUB 65117  
109  
SUB 65117  
110  
SUB 65117  
111  
SUB 65117  
112  
SUB 65117

**Cut to Fill Legend**

- 0 Contour
- Cut Contours & Area (-1.0)
- Fill Contours & Area (1.0)
- Extent of Earthworks
- As built Timber Retaining Wall
- Concrete Key Stone Retaining Wall
- Subsoil Drainage & depth (m) (5.2, 5.5)



Connection to existing subsoil drains installed under SLC-67099

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 The Levels (Z) are in terms of the Auckland 1946 (MSL) LINZ datum (DOSLI datum), and are within ± 25mm.

Signed: *[Signature]*  
 Licensed Cadastral Surveyor  
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REVISION (DESCRIPTIONS)	NAME	DATE
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DRAWN	BJ	01-17
CHECKED	BM	01-17
APPROVED	TL	01-17

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DRAWING TITLE  
**Cut Fill**  
**As Built Plan**  
**Sheet 3 of 5**

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ORIGINAL SCALE	ORIGINAL SIZE	REVISION NO
1:500	A3	
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06/12/2017	33659 E605-E609 Cut Fill	E607
DIRECTORY	Z:\33659\ACAD\As Built Plans	JOB NO
		33659

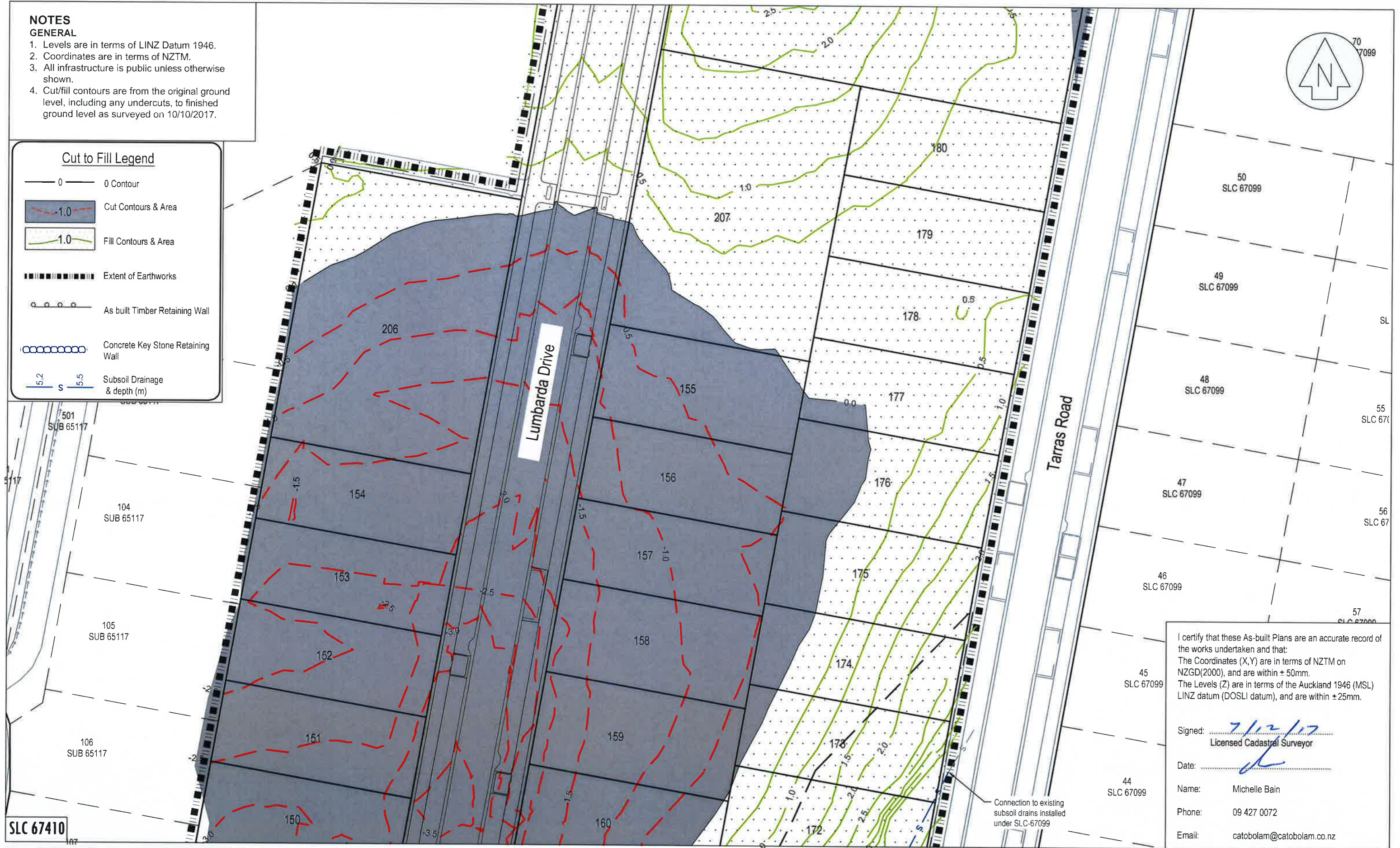
SLC 67410

**NOTES  
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1. Levels are in terms of LINZ Datum 1946.
2. Coordinates are in terms of NZTM.
3. All infrastructure is public unless otherwise shown.
4. Cut/fill contours are from the original ground level, including any undercuts, to finished ground level as surveyed on 10/10/2017.

**Cut to Fill Legend**

- 0 — 0 Contour
-  -1.0 Cut Contours & Area
-  1.0 Fill Contours & Area
-  Extent of Earthworks
-  As built Timber Retaining Wall
-  Concrete Key Stone Retaining Wall
-  Subsoil Drainage & depth (m)



I certify that these As-built Plans are an accurate record of the works undertaken and that:  
 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 (DOSLI datum), and are within ± 25mm.

Signed:  7/12/17  
 Licensed Cadastral Surveyor  
 Date:   
 Name: Michelle Bain  
 Phone: 09 427 0072  
 Email: catobolam@catobolam.co.nz

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REVISION (DESCRIPTIONS)	NAME	DATE
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DESIGNED		
DRAWN	BJ	01-17
CHECKED	BM	01-17
APPROVED	TL	01-17

CLIENT  
**Cabra Developments Ltd**  
**Huapai Triangle Sub Precinct D**  
**Stages 1 - 5**  
**Huapai**

DRAWING TITLE  
**Cut Fill**  
**As Built Plan**  
**Sheet 4 of 5**

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ORIGINAL SCALE	ORIGINAL SIZE	REVISION NO
1:500	A3	
DATE	CAD REFERENCE	SHEET NO
06/12/2017	33659 E605-E609 Cut Fill	E608
DIRECTORY		JOB NO
Z:\33659\ACAD\As Built Plans		33659

**NOTES  
GENERAL**

1. Levels are in terms of LINZ Datum 1946.
2. Coordinates are in terms of NZTM.
3. All infrastructure is public unless otherwise shown.
4. Cut/fill contours are from the original ground level, including any undercuts, to finished ground level as surveyed on 10/10/2017.



**Cut to Fill Legend**

- 0 — 0 Contour
- Cut Contours & Area
- Fill Contours & Area
- Extent of Earthworks
- As built Timber Retaining Wall
- Concrete Key Stone Retaining Wall
- Subsoil Drainage & depth (m)



201

1000  
Stormwater Utility  
Reserve

500  
SLC 67099

SLC 67410

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Signed: 7/12/17  
Licensed Cadastral Surveyor

Date:

Name: Michelle Bain

Phone: 09 427 0072

Email: catobolam@catobolam.co.nz

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REVISION (DESCRIPTIONS)	NAME	DATE
SURVEYED	LD	Oct-17
DESIGNED	BJ	Oct-17
DRAWN	BM	Oct-17
CHECKED	TL	Oct-17
APPROVED		

CLIENT  
**Cabra Developments Ltd  
Huapai Triangle Sub Precinct D  
Stages 1 - 5  
Huapai**

DRAWING TITLE  
**Cut Fill  
As Built Plan  
Sheet 5 of 5**

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ORIGINAL SCALE 1:500	ORIGINAL SIZE A3	REVISION NO
DATE 06/12/2017	CAD REFERENCE 33659 E605-E609 Cut Fill	SHEET NO <b>E609</b>
DIRECTORY Z:\33659\ACAD\As Built Plans		JOB NO <b>33659</b>

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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 (DOSLI datum), and are within ± 25mm.

Signed:   
 Licensed Cadastral Surveyor  
 Date: 7/12/17  
 Name: Michelle Bain  
 Phone: 09 427 0072  
 Email: catobolam@catobolam.co.nz

**Roading As Built Legend**

-  Street Lights Cree XSP1 IP66 T3 IPD F 29W system 4000K on vicpole round tapered 8m pole and 1m arm 0 degree tilt. (700mm setback) (G=80deg Candela=282)
-  Nobilo Road  
Street Lights Cree XSP2 IP66 T2 IPD A 101W system 4000K on vicpole round tapered 10m pole and 2m arm 0 degree tilt. (700mm setback)
-  Lot 503 Reserve  
Street lights Cree XSP1 IP66 T2+BLS IPD 19W system 4000K on Vicpole round tapered 5m pole and 0 arm degree tilt (set back behind footpath) (G=80deg Candela=194)
-  Totara (Nobilo Road)
-  Spire Ash (Vinistra Road)
-  Pohutukawa (Schoolside Road)
-  Tiaki (Krietlich Drive)
-  Flowering Cherry (Lumbarda Drive)
-  Pin Oak (Lot 503 Recreational Reserve)
-  Gleditsia Trees (Lot 503 Recreational Reserve)
-  Plane Tree (Lot 503 Recreational Reserve)
-  Concrete Footpath
-  Cesspits (Semi recessed)
-  Exposed Concrete Parking Bay
-  Rain Garden (RG)
-  Under channel drains
-  Extent of Works



**NOTES**  
**GENERAL**  
 1. Levels are in terms of LINZ Datum 1946.  
 2. Coordinates are in terms of NZTM.  
 3. All infrastructure is public unless otherwise shown.

**Pavement Formation**  
**Road**  
 Subgrade - Stabilised with 14kg/m<sup>2</sup> lime to a depth of 250mm  
 Subbase - 250mm GAP65  
 Basecourse - 100mm TNZ AP40  
 Seal - 30mm DG10 hotmix on grade 4 chipseal membrane

**Kerb & channel**  
 machine laid low profile mountable kerb

**Parking Bays**  
 Subgrade - lime stabilised with 14kg/m<sup>2</sup> to a depth of 250mm  
 175mm 20MPa exposed aggregate concrete with 4kg/m<sup>2</sup> black oxide, one layer of 665 mesh on 100mm GAP65 subbase

**Footpaths**  
 1.8m - 3.0m wide, 125mm 20MPa concrete on 50mm AP25 bedding

Refer to Sheet E610 for details

Refer to Sheet E614 for details

Refer to Sheet E612 for details

Refer to Sheet E611 for details

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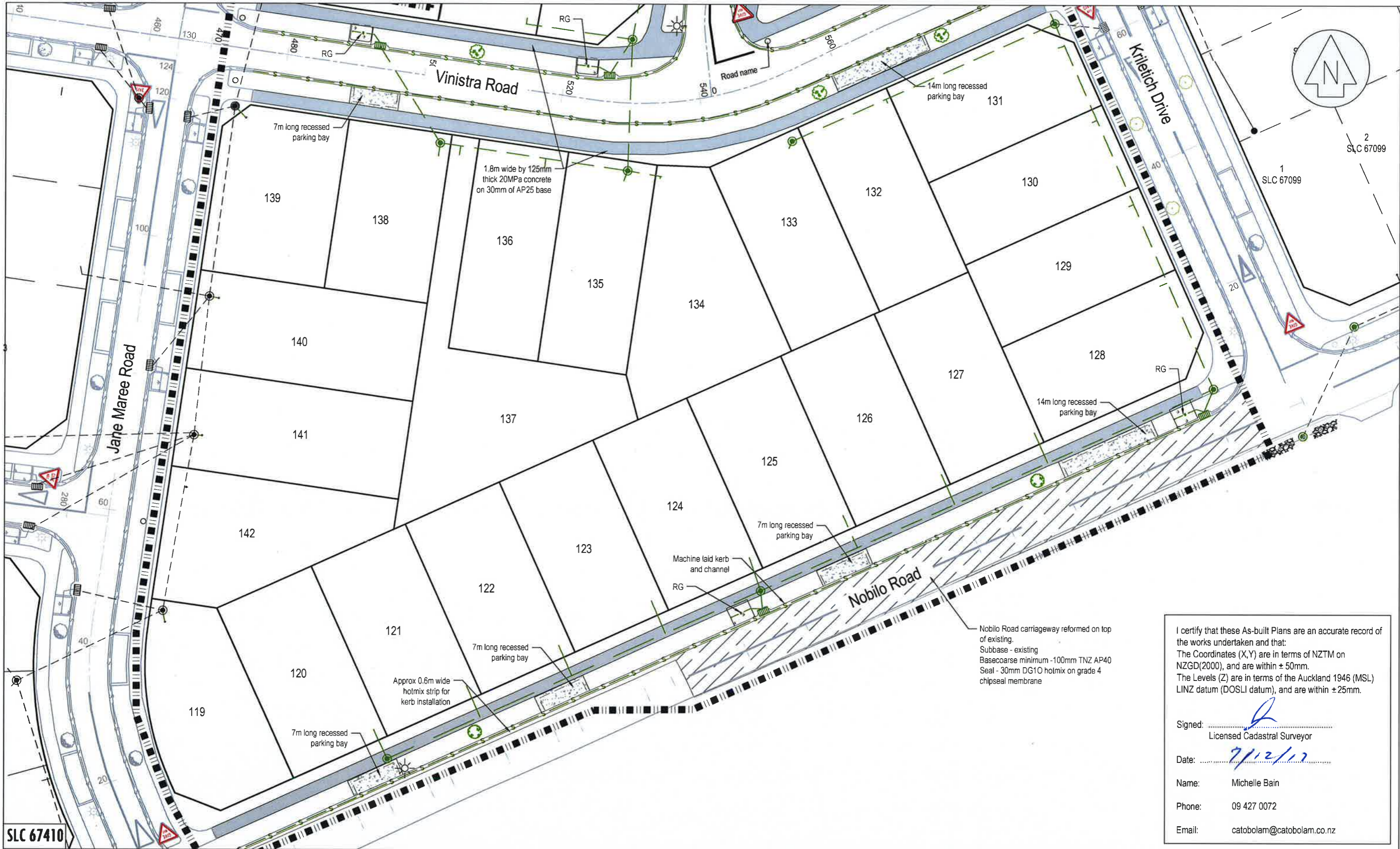
ORIGINAL SCALE	1:1500	ORIGINAL SIZE	A3	REVISION NO	
DATE	07/12/2017	CAD REFERENCE	33659 610-614 Road	SHEET NO	E610
DIRECTORY	Z:\33659\ACAD\As Built Plans			JOB NO	33659

CLIENT  
**Cabra Developments Ltd**  
**Huapai Triangle Sub Precinct D**  
**Stages 1 - 5**  
**Huapai**

REVISION (DESCRIPTIONS)	NAME	DATE
SURVEYED	LD	04-17
DESIGNED	LD	04-17
DRAWN	BJ	04-17
CHECKED	BM	04-17
APPROVED	TL	04-17


DRAWING TITLE  
**Road**  
**As Built Plan**  
**Sheet 1 of 5**

**SLC 67410**



SLC 67410

I certify that these As-built Plans are an accurate record of the works undertaken and that:  
 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 (DOSLI datum), and are within ± 25mm.

Signed:   
 Licensed Cadastral Surveyor

Date: 7/12/17

Name: Michelle Bain  
 Phone: 09 427 0072  
 Email: catobolam@catobolam.co.nz

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Refer to Sheet E610 for Drawing Notes & As Built Legend

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**Huapai Triangle Sub Precinct D**  
**Stages 1 - 5**  
**Huapai**

DRAWING TITLE  
**Road**  
**As Built Plan**  
**Sheet 2 of 5**

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ORIGINAL SCALE	ORIGINAL SIZE	REVISION NO
1:500	A3	
DATE	CAD REFERENCE	SHEET NO
06/12/2017	33659 E610-E614 Road	E611
DIRECTORY		JOB NO
Z:\33659\ACAD\As Built Plans		33659



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Signed:   
 Licensed Cadastral Surveyor  
 Date: 7/12/17  
 Name: Michelle Bain  
 Phone: 09 427 0072  
 Email: catobolam@catobolam.co.nz

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REVISION (DESCRIPTIONS)	NAME	DATE
SURVEYED	LD	Oct-17
DESIGNED		
DRAWN	BJ	Oct-17
CHECKED	BM	Oct-17
APPROVED	TL	Oct-17

Refer to Sheet E610 for Drawing Notes & As Built Legend

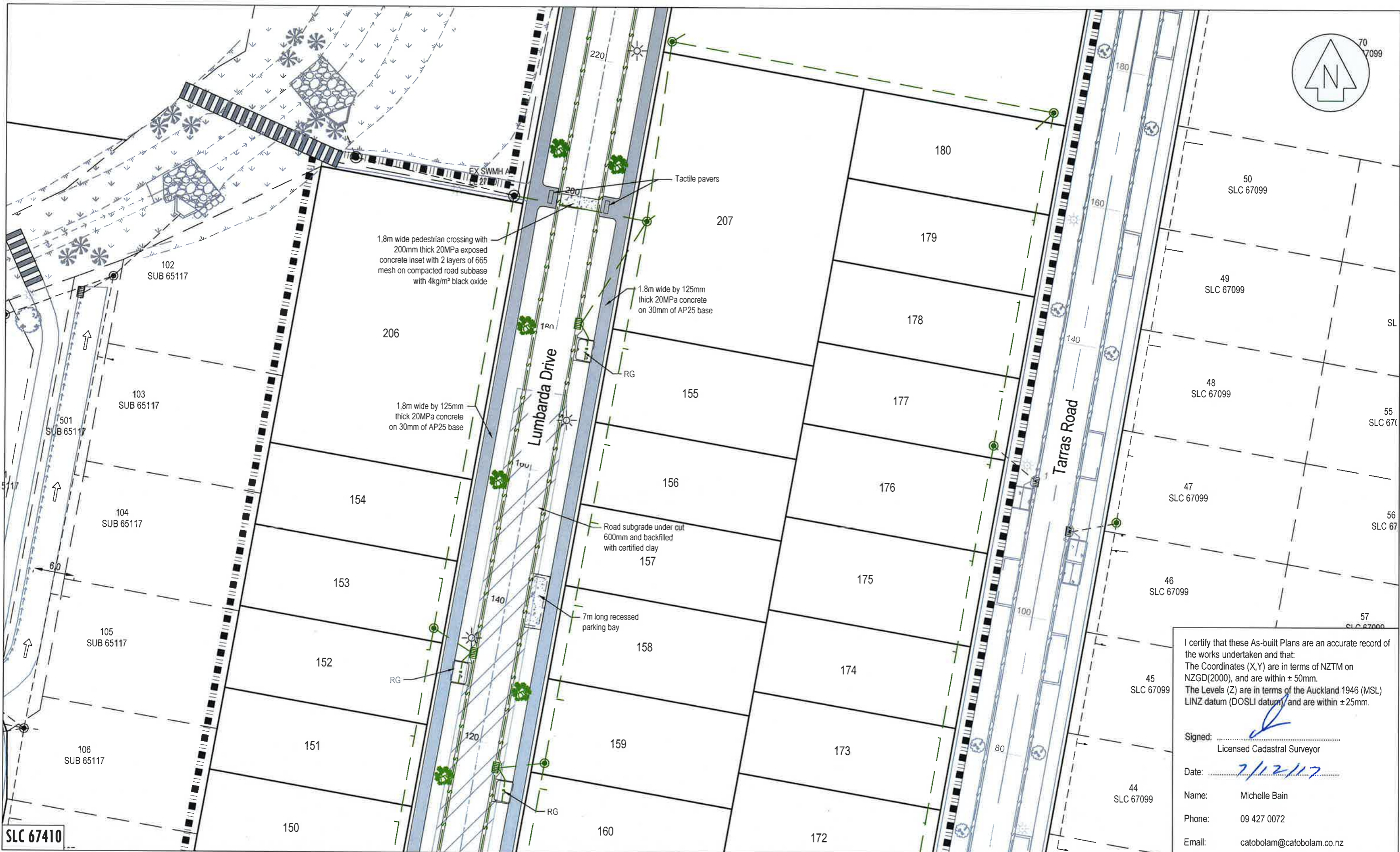
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**Huapai Triangle Sub Precinct D**  
**Stages 1 - 5**  
**Huapai**

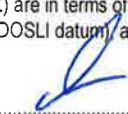
DRAWING TITLE  
**Road**  
**As Built Plan**  
**Sheet 3 of 5**

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ORIGINAL SCALE 1:500	ORIGINAL SIZE A3	REVISION NO
DATE 06/12/2017	CAD REFERENCE 33659 E610-E614 Road	SHEET NO E612
DIRECTORY Z:\33659\ACAD\As Built Plans		JOB NO 33659



I certify that these As-built Plans are an accurate record of the works undertaken and that:  
 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 (DOSLI datum) and are within ± 25mm.

Signed:   
 Licensed Cadastral Surveyor

Date: 7/12/17

Name: Michelle Bain  
 Phone: 09 427 0072  
 Email: catobolam@catobolam.co.nz

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SURVEYED	LD	Oct-17
DESIGNED	BJ	Oct-17
CHECKED	BM	Oct-17
APPROVED	TL	Oct-17

Refer to Sheet E610 for Drawing Notes & As Built Legend

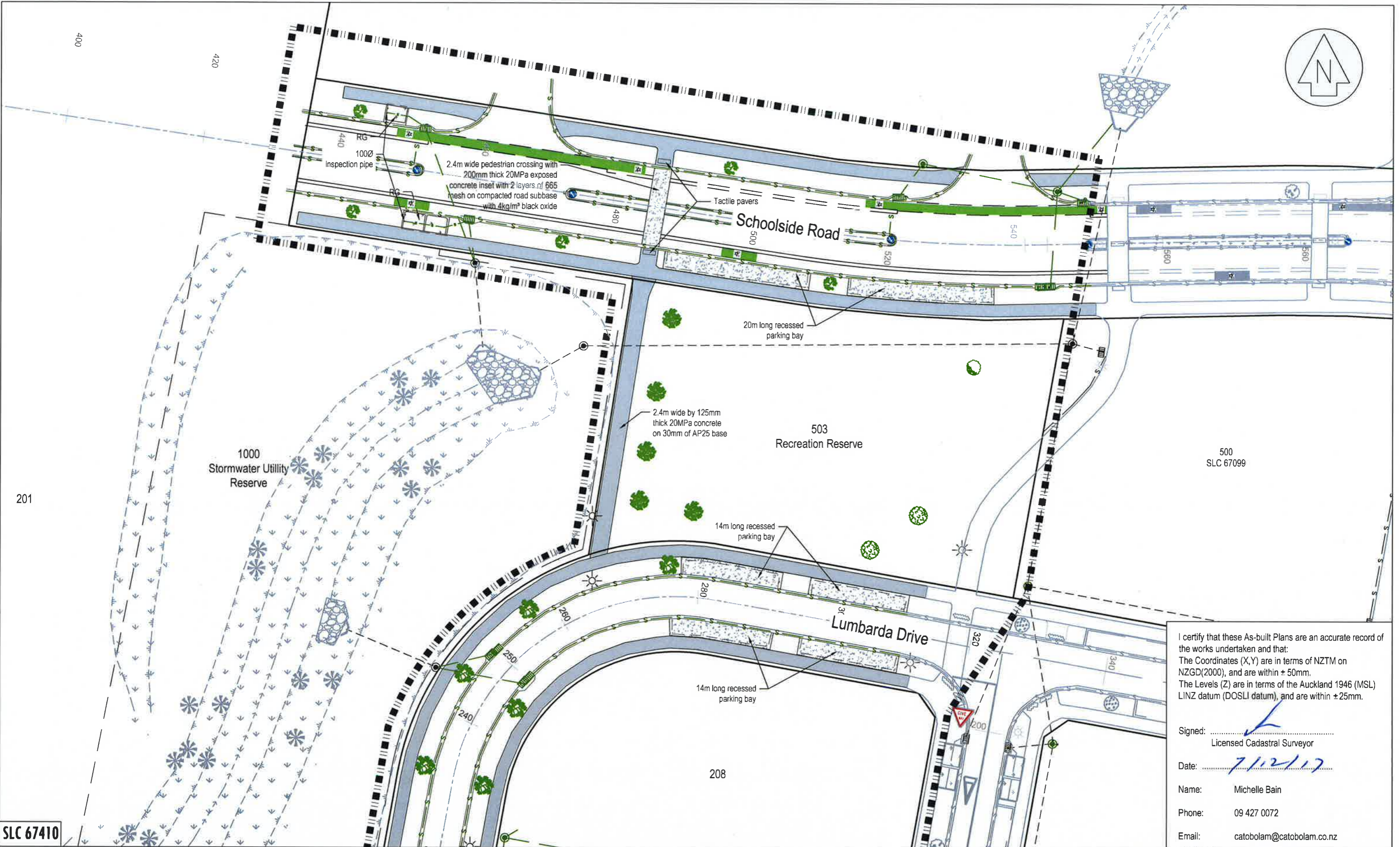
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**Cabra Developments Ltd**  
**Huapai Triangle Sub Precinct D**  
**Stages 1 - 5**  
**Huapai**

DRAWING TITLE  
**Road**  
**As Built Plan**  
 Sheet 4 of 5

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ORIGINAL SCALE	ORIGINAL SIZE	REVISION NO
1:500	A3	
DATE	CAD REFERENCE	SHEET NO
07/12/2017	33659 E610-E614 Road	E613
DIRECTORY	Z:\33659\ACAD\As Built Plans	JOB NO
		33659



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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 (DOSLI datum), and are within ± 25mm.

Signed: *[Signature]*  
 Licensed Cadastral Surveyor

Date: *7/12/17*

Name: Michelle Bain  
 Phone: 09 427 0072  
 Email: catobolam@catobolam.co.nz

SLC 67410

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 email catobolam@catobolam.co.nz

REVISION (DESCRIPTIONS)	NAME	DATE
SURVEYED	LD	Oct-17
DESIGNED		
DRAWN	BJ	Oct-17
CHECKED	BM	Oct-17
APPROVED	TL	Oct-17

Refer to Sheet E610 for Drawing Notes & As Built Legend

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**Cabra Developments Ltd**  
**Huapai Triangle Sub Precinct D**  
**Stages 1 - 5**  
**Huapai**

DRAWING TITLE  
**Road**  
**As Built Plan**  
**Sheet 5 of 5**

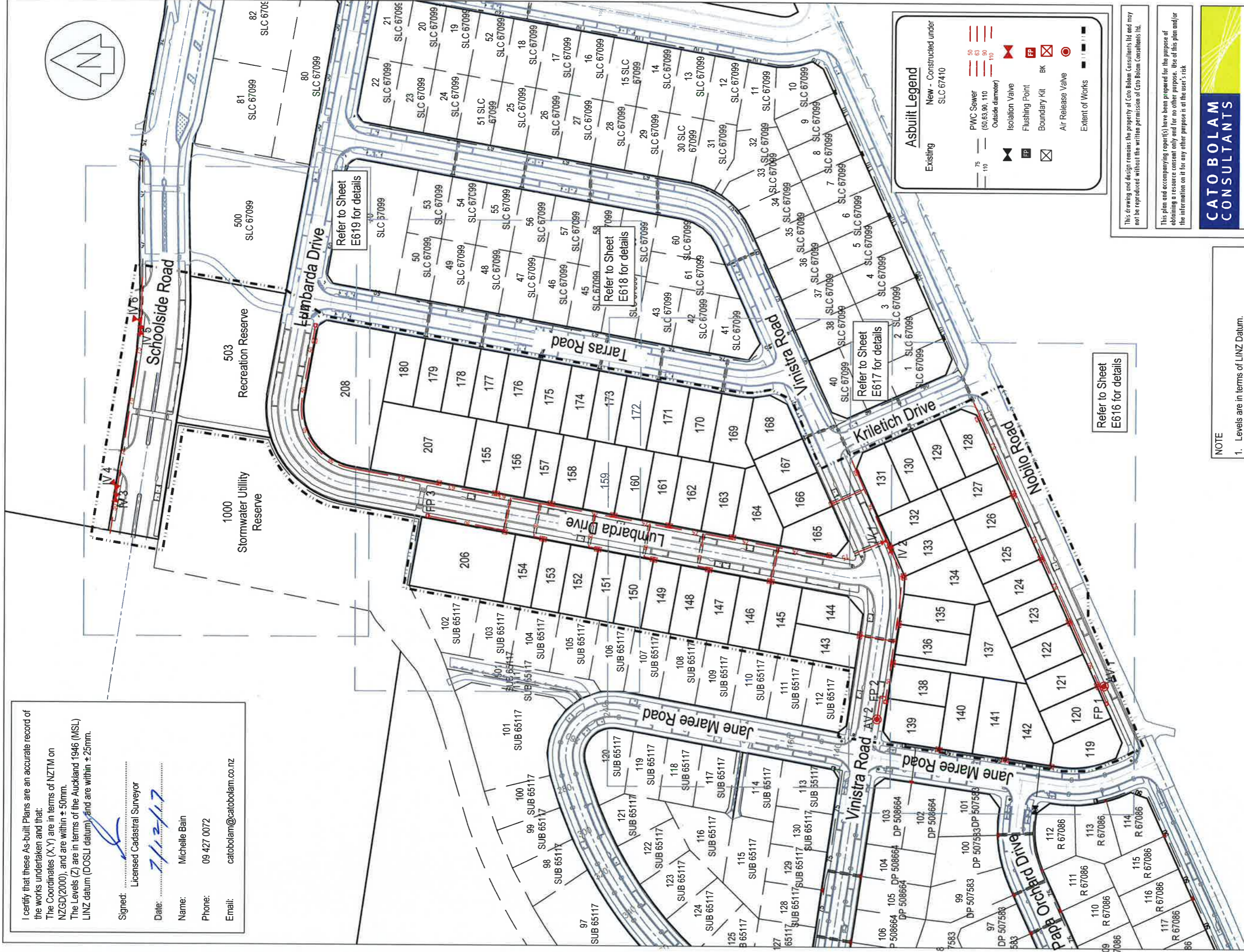
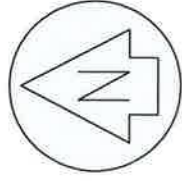
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ORIGINAL SCALE	ORIGINAL SIZE	REVISION NO
1:500	A3	
DATE	CAD REFERENCE	SHEET NO
06/12/2017	33659 E610-E614 Road	E614
DIRECTORY		JOB NO
Z:\33659\ACAD\As Built Plans		33659



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Signed:   
 Licensed Cadastral Surveyor  
 Date: 7/12/17  
 Name: Michelle Bain  
 Phone: 09 427 0072  
 Email: catobolam@catobolam.co.nz



Asbuilt Legend	
Existing	New - Constructed under SLC 67410
76	PWC Sewer (50,63,90, 110 Outside diameter)
110	Isolation Valve
	Flushing Point
	Boundary Kit BK
	Air Release Valve
	Extent of Works

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ORIGINAL SCALE	1:1500	ORIGINAL SIZE	A3	REVISION NO	
DATE	06/12/2017	CAD REFERENCE	33659 E615-E619 Sewer	SHEET NO	E615
DIRECTORY	Z:\33659\ACAD\As Built Plans			JOB NO	33659

**NOTE**

- Levels are in terms of LINZ Datum.
- Coordinates are in terms of NZTM.
- All pipework is PE100 PN16 with SAP7 bedding.
- Depth of lines are approximately 0.6m below finished ground level.

Refer to Sheet E616 for details

Refer to Sheet E617 for details

Refer to Sheet E618 for details

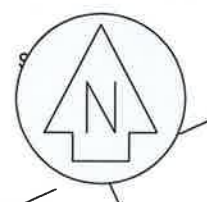
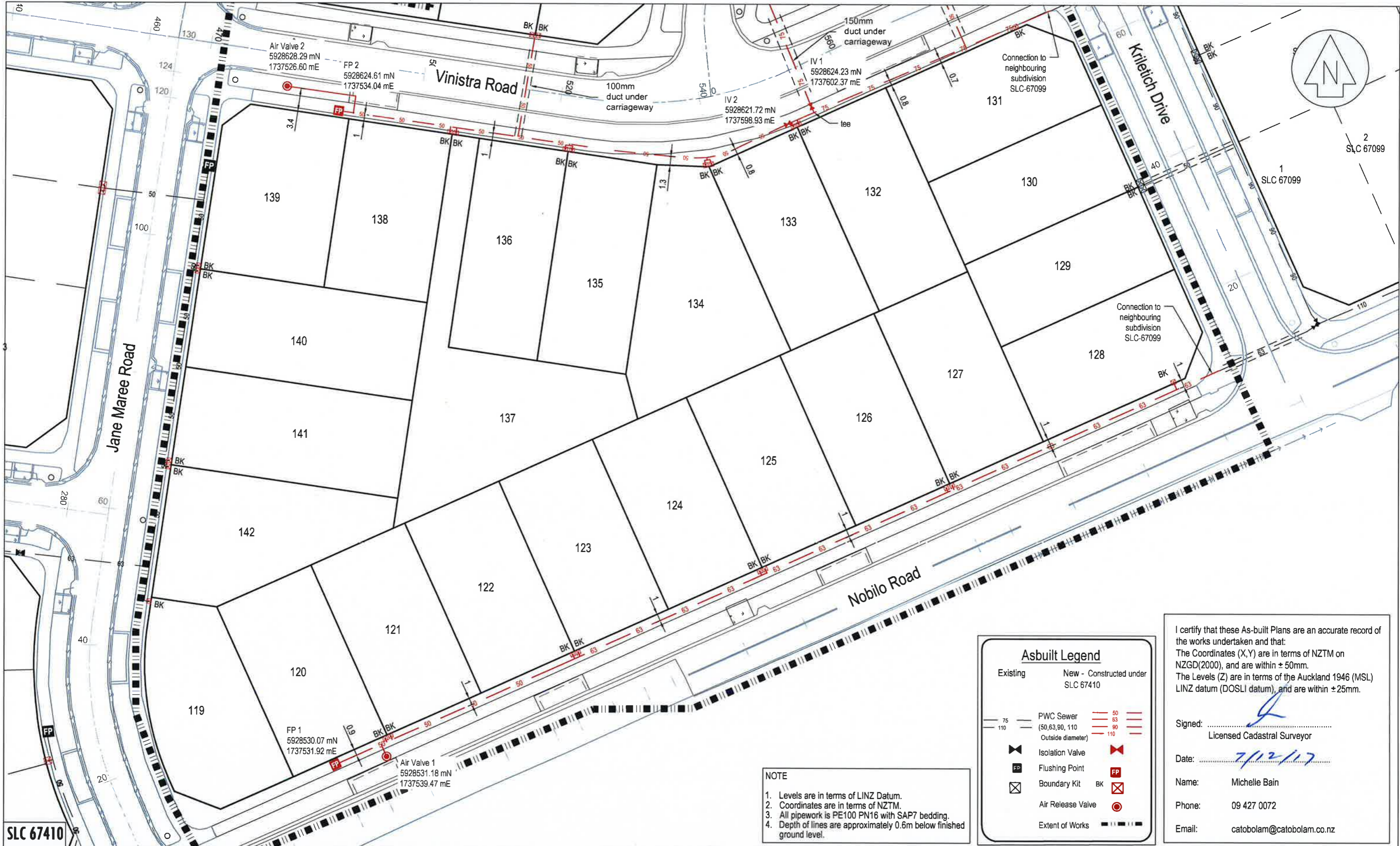
Refer to Sheet E619 for details

**Wastewater Reticulation**  
**As Built Plan**  
 Sheet 1 of 5

**Cabra Developments Ltd**  
**Huapai Triangle Sub Precinct D**  
**Stages 1 - 5**  
**Huapai**

REVISION (DESCRIPTIONS)	NAME	DATE
SURVEYED	LD	0d-17
DESIGNED	LD	0d-17
DRAWN	BJ	0d-17
CHECKED	BM	0d-17
APPROVED	TL	0d-17

**SLC 67410**



### Asbuilt Legend

Existing	New - Constructed under SLC 67410
75 110	50 63 90 110
PWC Sewer (50, 63, 90, 110 Outside diameter)	
Isolation Valve	
Flushing Point	
Boundary Kit	
Air Release Valve	
Extent of Works	

**NOTE**

- Levels are in terms of LINZ Datum.
- Coordinates are in terms of NZTM.
- All pipework is PE100 PN16 with SAP7 bedding.
- Depth of lines are approximately 0.6m below finished ground level.

I certify that these As-built Plans are an accurate record of the works undertaken and that:  
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 The Levels (Z) are in terms of the Auckland 1946 (MSL) LINZ datum (DOSLI datum), and are within ± 25mm.

Signed:   
 Licensed Cadastral Surveyor

Date: 7/12/17

Name: Michelle Bain  
 Phone: 09 427 0072  
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REVISION (DESCRIPTIONS)	NAME	DATE
SURVEYED	LD	Oct-17
DESIGNED		
DRAWN	BJ	Oct-17
CHECKED	BM	Oct-17
APPROVED	TL	Oct-17

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CLIENT  
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**Huapai Triangle Sub Precinct D**  
**Stages 1 - 5**  
**Huapai**

DRAWING TITLE  
**Wastewater Reticulation**  
**As Built Plan**  
**Sheet 2 of 5**

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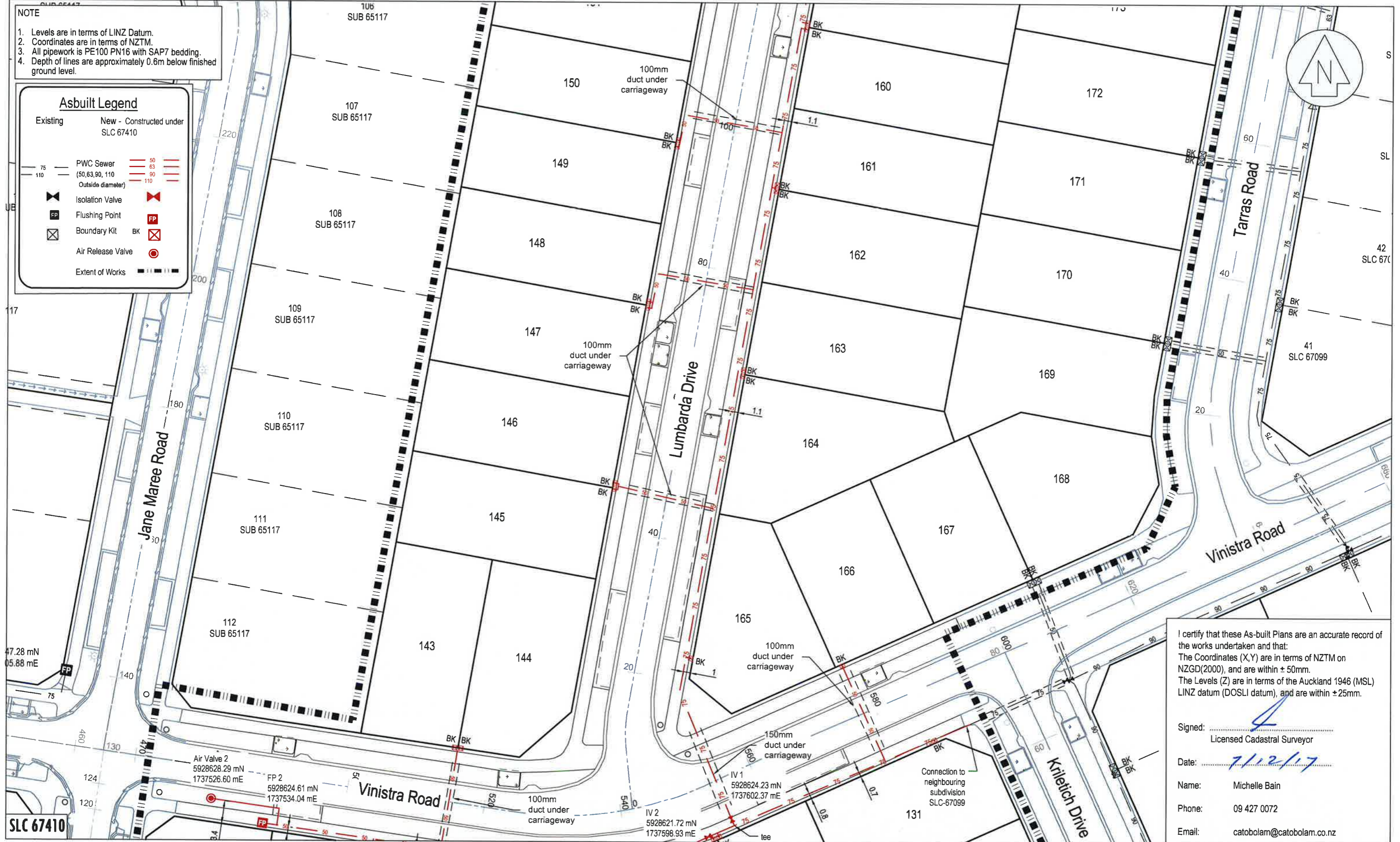
ORIGINAL SCALE 1:500	ORIGINAL SIZE A3	REVISION NO
DATE 06/12/2017	CAD REFERENCE 33659 E615-E619 Sewer	SHEET NO E616
DIRECTORY Z:\33659\ACAD\As Built Plans		JOB NO 33659

**NOTE**

- Levels are in terms of LINZ Datum.
- Coordinates are in terms of NZTM.
- All pipework is PE100 PN16 with SAP7 bedding.
- Depth of lines are approximately 0.6m below finished ground level.

**Asbuilt Legend**

Existing	New - Constructed under SLC 67410
75 110	50 63 90 110
PWC Sewer (50,63,90, 110 Outside diameter)	
Isolation Valve	
Flushing Point	
Boundary Kit	
Air Release Valve	
Extent of Works	



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Signed: *[Signature]*  
 Licensed Cadastral Surveyor

Date: *7/12/17*

Name: Michelle Bain  
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REVISION (DESCRIPTIONS)	NAME	DATE
SURVEYED	LD	Oct-17
DESIGNED		
DRAWN	BJ	Oct-17
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APPROVED	TL	Oct-17

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**Cabra Developments Ltd  
 Huapai Triangle Sub Precinct D  
 Stages 1 - 5  
 Huapai**

DRAWING TITLE

**Wastewater Reticulation  
 As Built Plan  
 Sheet 3 of 5**

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ORIGINAL SCALE	ORIGINAL SIZE	REVISION NO
1:500	A3	
DATE	CAD REFERENCE	SHEET NO
06/12/2017	33659 E615-E619 Sewer	<b>E617</b>
DIRECTORY	JOB NO	
Z:\33659\ACAD\As Built Plans	<b>33659</b>	

**NOTE**

1. Levels are in terms of LINZ Datum.
2. Coordinates are in terms of NZTM.
3. All pipework is PE100 PN16 with SAP7 bedding.
4. Depth of lines are approximately 0.6m below finished ground level.

**Asbuilt Legend**

Existing	New - Constructed under SLC 67410
75 110	PWC Sewer (50,63,90, 110 Outside diameter)
50 63 90 110	
⊘	Isolation Valve
FP	Flushing Point
⊠	Boundary Kit BK
⊙	Air Release Valve
--- ---	Extent of Works



I certify that these As-built Plans are an accurate record of the works undertaken and that:  
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 The Levels (Z) are in terms of the Auckland 1946 (MSL) LINZ datum (DOSLI datum), and are within ± 25mm.

Signed: *[Signature]*  
 Licensed Cadastral Surveyor

Date: *7/12/17*

Name: Michelle Bain  
 Phone: 09 427 0072  
 Email: catobolam@catobolam.co.nz

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REVISION (DESCRIPTIONS)	NAME	DATE
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DESIGNED		
DRAWN	BJ	Oct-17
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APPROVED	TL	Oct-17

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**Cabra Developments Ltd**  
**Huapai Triangle Sub Precinct D**  
**Stages 1 - 5**  
**Huapai**

DRAWING TITLE

**Wastewater Reticulation**  
**As Built Plan**  
**Sheet 4 of 5**

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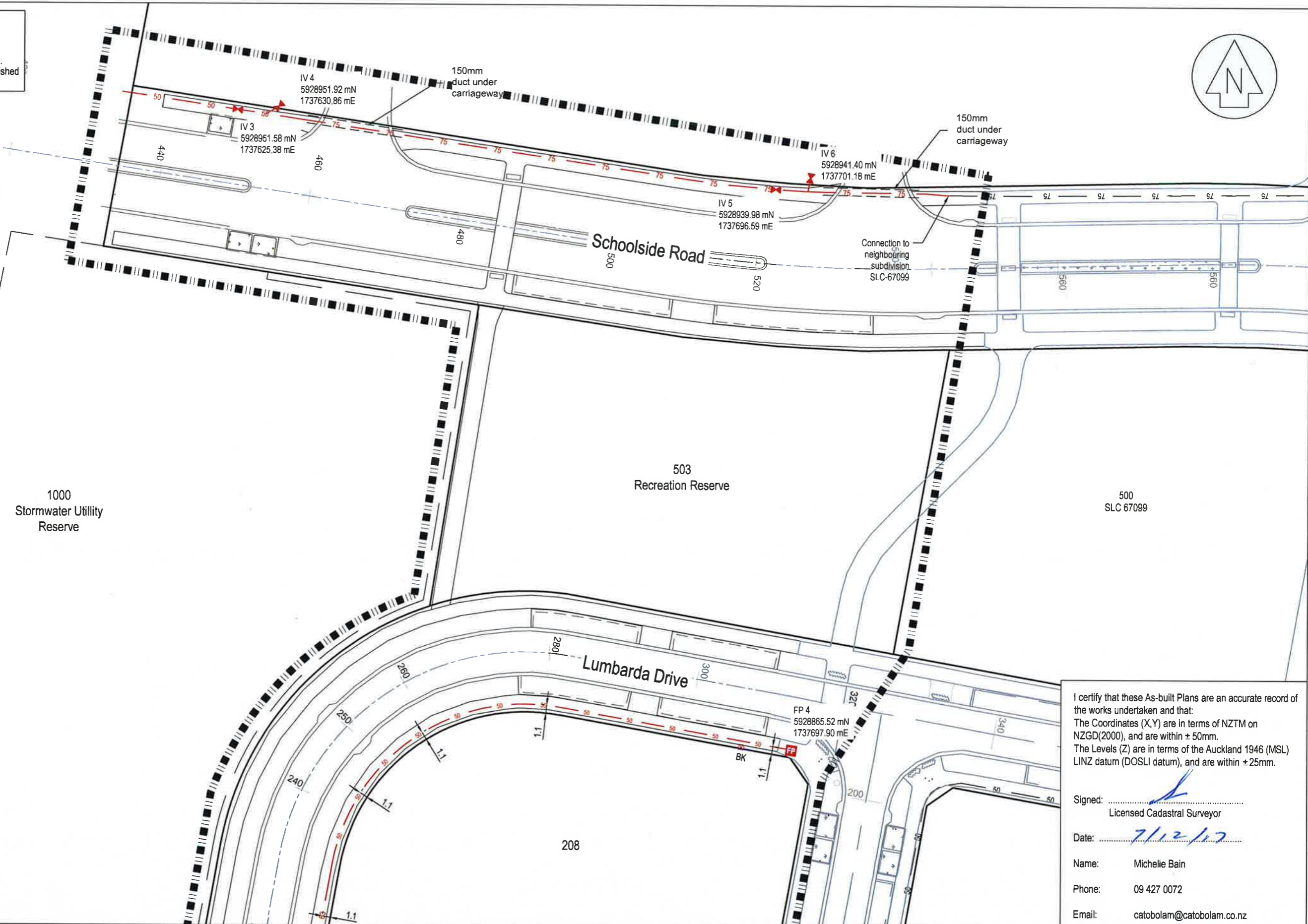
ORIGINAL SCALE 1:500	ORIGINAL SIZE A3	REVISION NO
DATE 06/12/2017	CAD REFERENCE 33659 E615-E619 Sewer	SHEET NO E618
DIRECTORY Z:\33659\ACAD\As Built Plans		JOB NO 33659

**NOTE**

- Levels are in terms of LINZ Datum.
- Coordinates are in terms of NZTM.
- All pipework is PE100 PN16 with SAP7 bedding.
- Depth of lines are approximately 0.6m below finished ground level.

**Asbuilt Legend**

Existing	New - Constructed under SLC 67410
75	50
110	63
	90
	110
PWC Sewer (50,63,90, 110 Outside diameter)	
Isolation Valve	Flushing Point
Boundary Kit	Air Release Valve
Extent of Works	



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 Licensed Cadastral Surveyor  
 Date: *7/12/17*  
 Name: Michelle Bain  
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 Email: catobolam@catobolam.co.nz

SLC 67410

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**Huapai Triangle Sub Precinct D**  
**Stages 1 - 5**  
**Huapai**

DRAWING TITLE  
**Wastewater Reticulation**  
**As Built Plan**  
**Sheet 5 of 5**

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ORIGINAL SCALE	ORIGINAL SIZE	REVISION NO
1:500	A3	
DATE	CAD REFERENCE	SHEET NO
06/12/2017	33659 E615-E619 Sewer	E619
DIRECTORY		JOB NO
Z:\33659\ACAD\As Built Plans		33659

**Drainage As Built Legend**

Existing	Stormwater	Cesspit	Rock Rip Rap	Rain Garden	Timber Retaining Wall	Rock Retaining Wall	Relining Wall Subsoil Drain (1000 perforated draincoil with scoria surround)	3 x Subsoil Drains 1500 perforated highway grade draincoil with SAP50 scoria surround
---	---	---	---	---	---	---	---	---
●	●	■	■	■	■	■	■	■
○	○	○	○	○	○	○	○	○
---	---	---	---	---	---	---	---	---
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---	---	---	---	---	---	---	---	---



**NOTES**  
**GENERAL**  
 1. Levels are in terms of LINZ Datum 1946.  
 2. Coordinates are in terms of NZTM.  
 3. All infrastructure is public unless otherwise shown.  
**STORMWATER**  
 1. All pipes are Class 4 reinforced concrete rubber ring jointed (RCRRJ), unless otherwise shown.  
 2. All manholes are 1050mmØ concrete flange base and riser, unless otherwise shown.  
 3. Bedding is H2 type unless otherwise stated.  
 4. All catchpits are 675mm x 450mm steel grate lids semi recessed unless otherwise shown.  
 5. All lot connections are 100Ø uPVC SN16 unless otherwise stated.  
 6. Wall drain cesspits and outlet pipes are private.

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ORIGINAL SCALE	1:1500	ORIGINAL SIZE	A3	REVISION NO	
DATE	06/12/2017	CAD REFERENCE	33659 E620 E24 SW Rele	SHEET NO	E620
DIRECTORY	Z:\33659\ACAD\AS-Built Plans			JOB NO	33659

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Signed: .....  
 Licensed Cadastral Surveyor

Date: 7/12/17

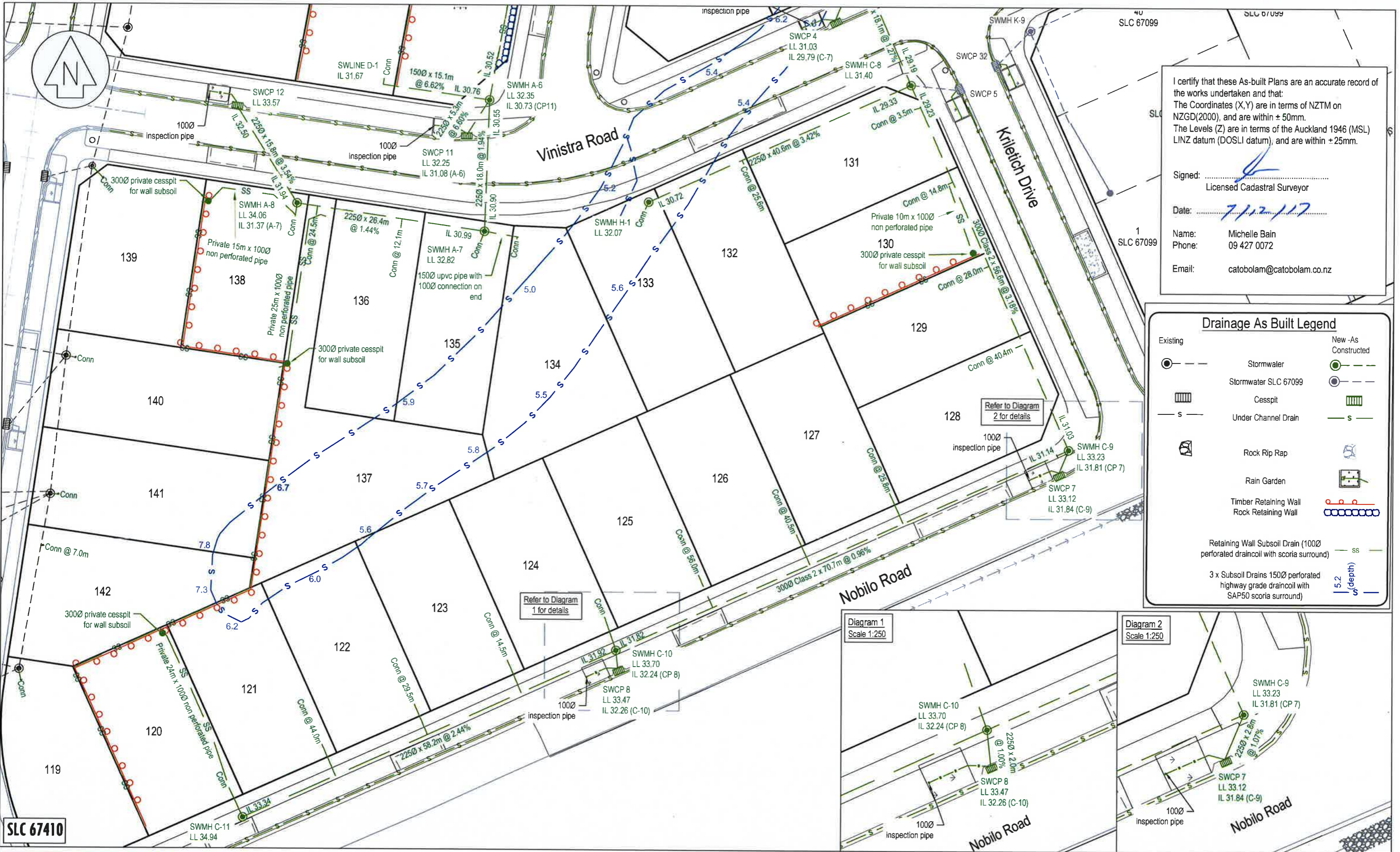
Name: Michelle Bain  
 Phone: 09 427 0072  
 Email: catobolam@catobolam.co.nz

**Stormwater Reticulation As Built Plan**  
 Sheet 1 of 5

**Cabra Developments Ltd**  
 Huapai Triangle Sub Precinct D  
 Stages 1 - 5  
 Huapai

REVISION (DESCRIPTIONS)	NAME	DATE
SURVEYED	LD	04-17
DESIGNED		
DRAWN	BJ	04-17
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APPROVED	TL	04-17

**SLC 67410**



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Signed: *[Signature]*  
 Licensed Cadastral Surveyor

Date: *7/12/17*

Name: Michelle Bain  
 Phone: 09 427 0072  
 Email: catobolam@catobolam.co.nz

### Drainage As Built Legend

Existing	New -As Constructed

Retaining Wall Subsoil Drain (1000 perforated draincoil with scoria surround) — SS

3 x Subsoil Drains 1500 perforated highway grade draincoil with SAP50 scoria surround) — 5.2 (depth)

Refer to Diagram 1 for details

Refer to Diagram 2 for details

Diagram 1  
Scale 1:250

Diagram 2  
Scale 1:250

SLC 67410

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DESIGNED		
DRAWN	BJ	0ct-17
CHECKED	BM	0ct-17
APPROVED	TL	0ct-17

Refer to E620 for drawing notes

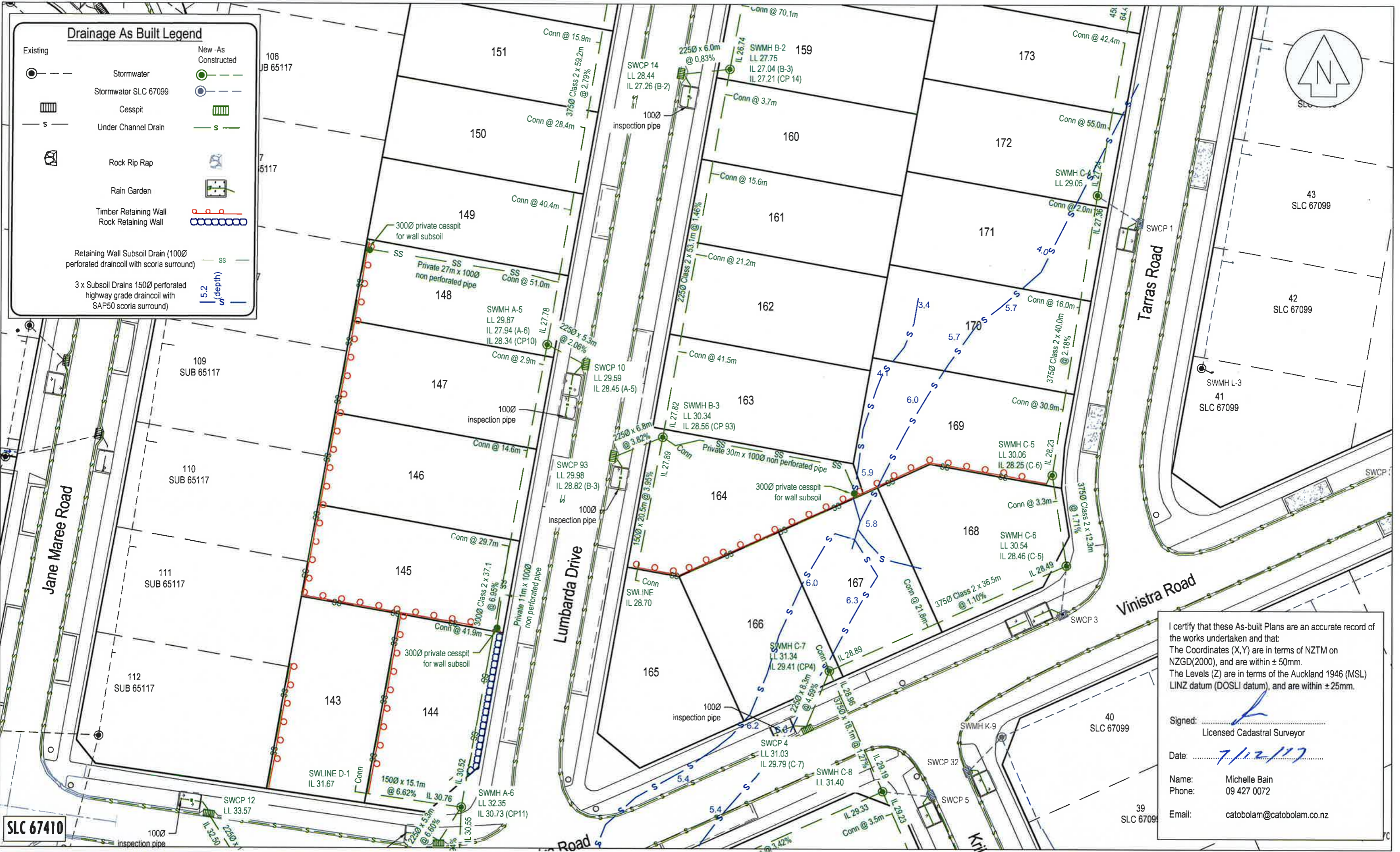
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 Huapai Triangle Sub Precinct D  
 Stages 1 - 5  
 Huapai**

DRAWING TITLE  
**Stormwater Reticulation  
 As Built Plan  
 Sheet 2 of 5**

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DIRECTORY	JOB NO	
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Refer to E620 for drawing notes

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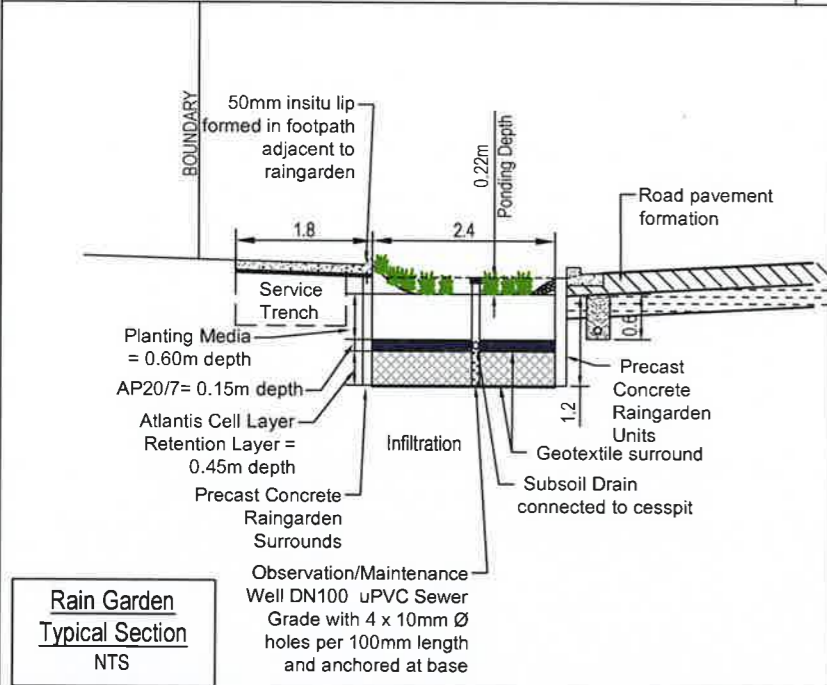
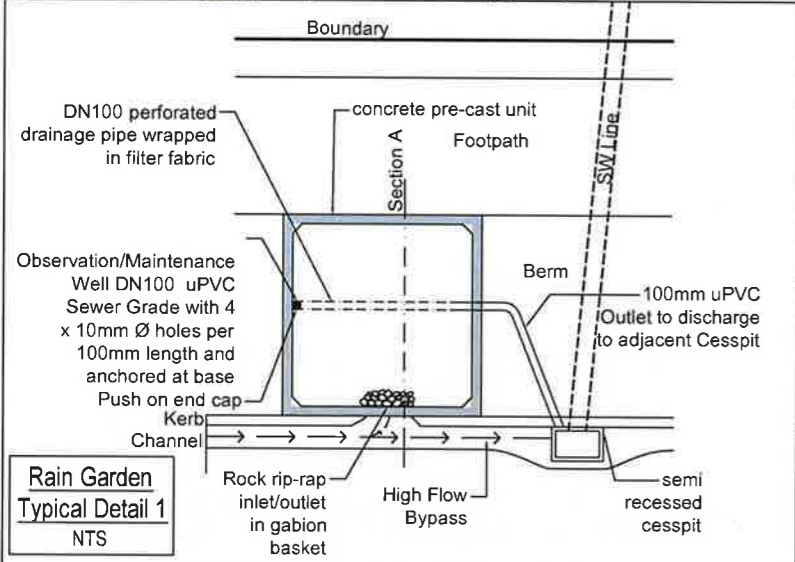
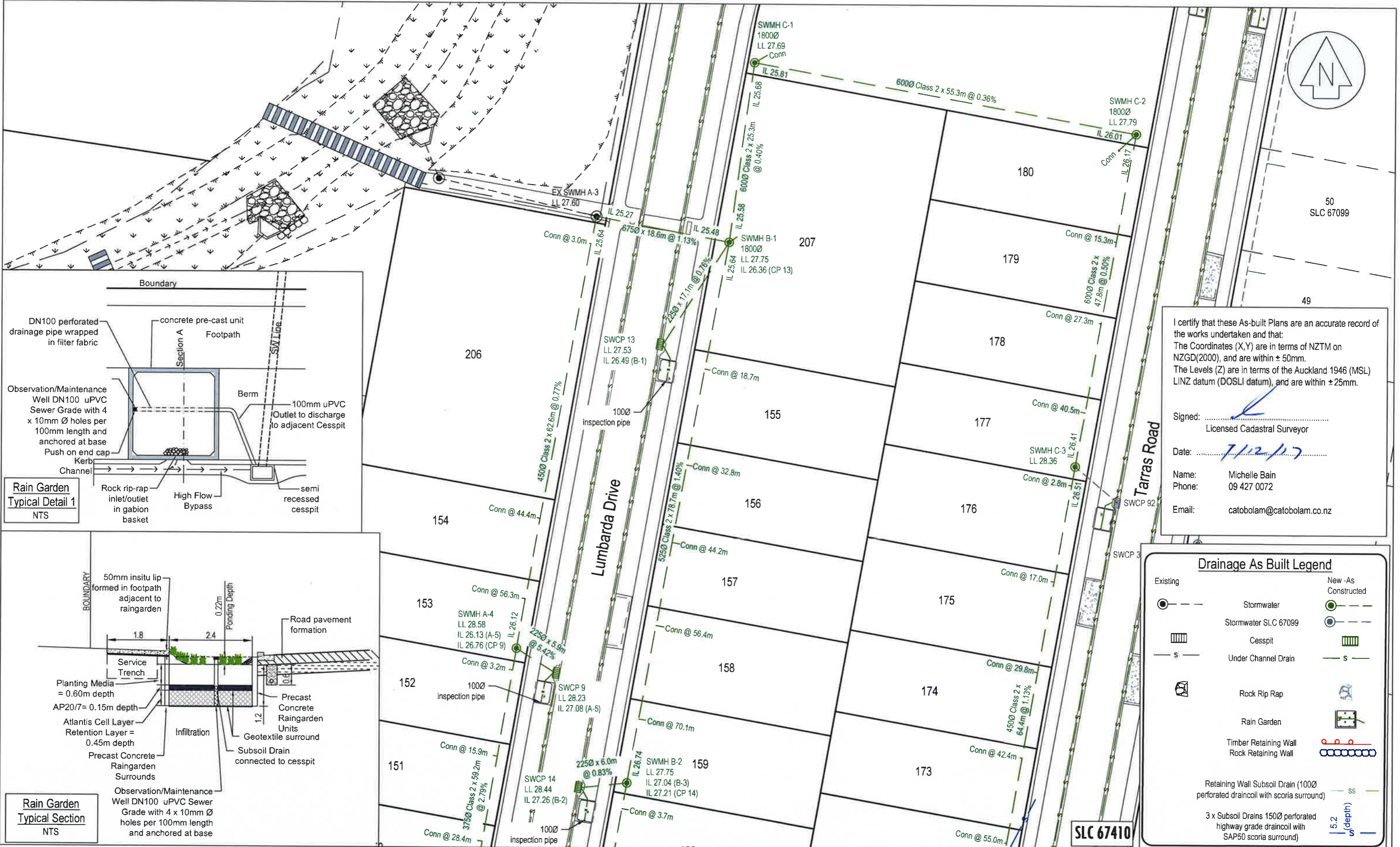
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**Huapai Triangle Sub Precinct D**  
**Stages 1 - 5**  
**Huapai**

DRAWING TITLE  
**Stormwater Reticulation**  
**As Built Plan**  
**Sheet 3 of 5**

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1:500	A3	
DATE	CAD REFERENCE	SHEET NO
06/12/2017	33659 E620-E24 SW Retic	<b>E622</b>
DIRECTORY		JOB NO
Z:\33659\ACAD\As Built Plans		<b>33659</b>





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Signed: \_\_\_\_\_  
 Licensed Cadastral Surveyor

Date: 7/12/17

Name: Michelle Bain  
 Phone: 09 427 0072  
 Email: catobolam@catobolam.co.nz

Drainage As Built Legend	
Existing	New -As Constructed

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DESIGNED	BJ	Oct-17
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CHECKED	TL	Oct-17
APPROVED		

Refer to E620 for drawing notes

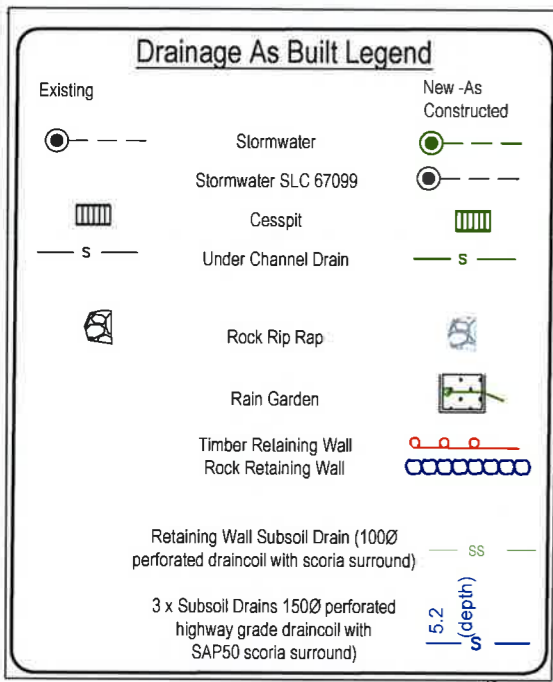
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**Stages 1 - 5**  
**Huapai**

DRAWING TITLE  
**Stormwater Reticulation**  
**As Built Plan**  
**Sheet 4 of 5**

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ORIGINAL SCALE 1:500	ORIGINAL SIZE A3	REVISION NO
DATE 06/12/2017	CAD REFERENCE 33659 E620-E24 SW Retic	SHEET NO E623
DIRECTORY Z:\33659\ACAD\As Built Plans		JOB NO 33659

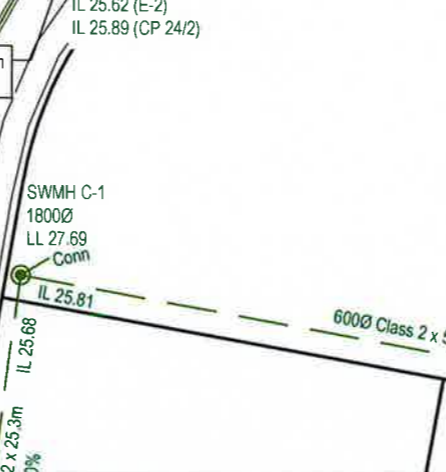
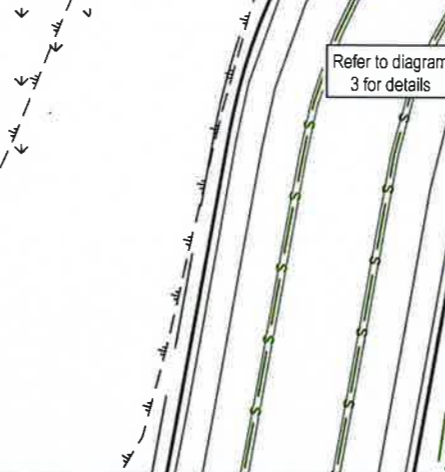
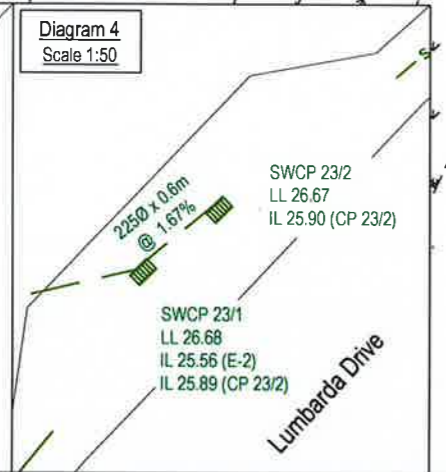
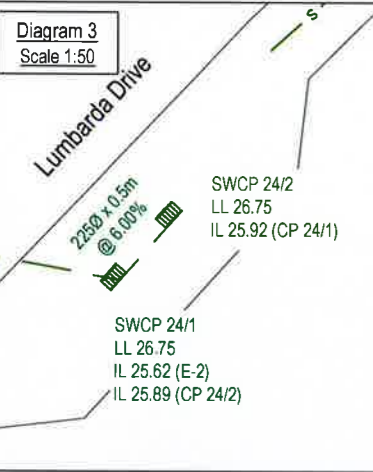


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 Licensed Cadastral Surveyor

Date: 7/12/17

Name: Michelle Bain  
 Phone: 09 427 0072  
 Email: catobolam@catobolam.co.nz



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Refer to E620 for drawing notes

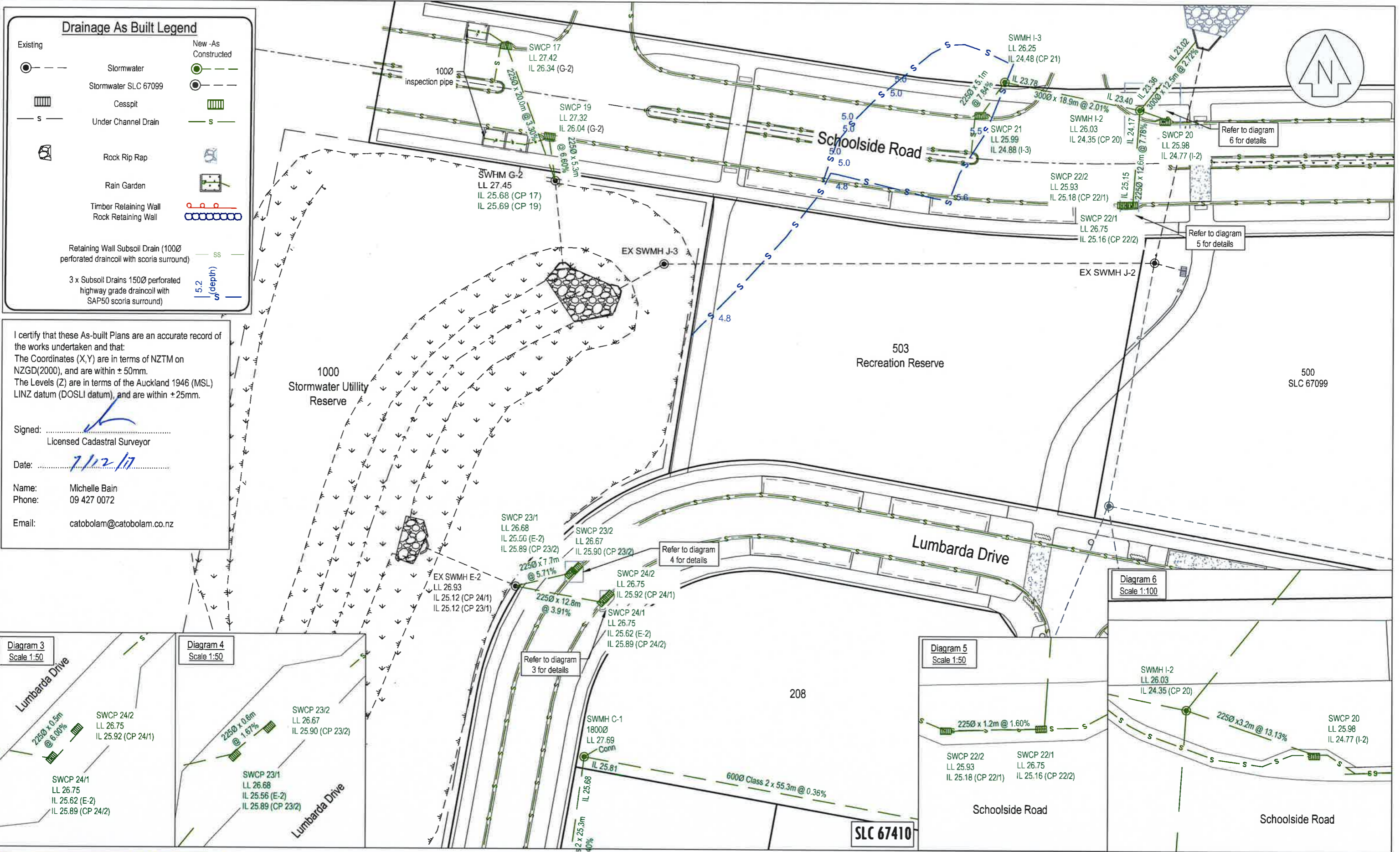
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 Huapai Triangle Sub Precinct D  
 Stages 1 - 5  
 Huapai

DRAWING TITLE  
**Stormwater Reticulation**  
 As Built Plan  
 Sheet 5 of 5

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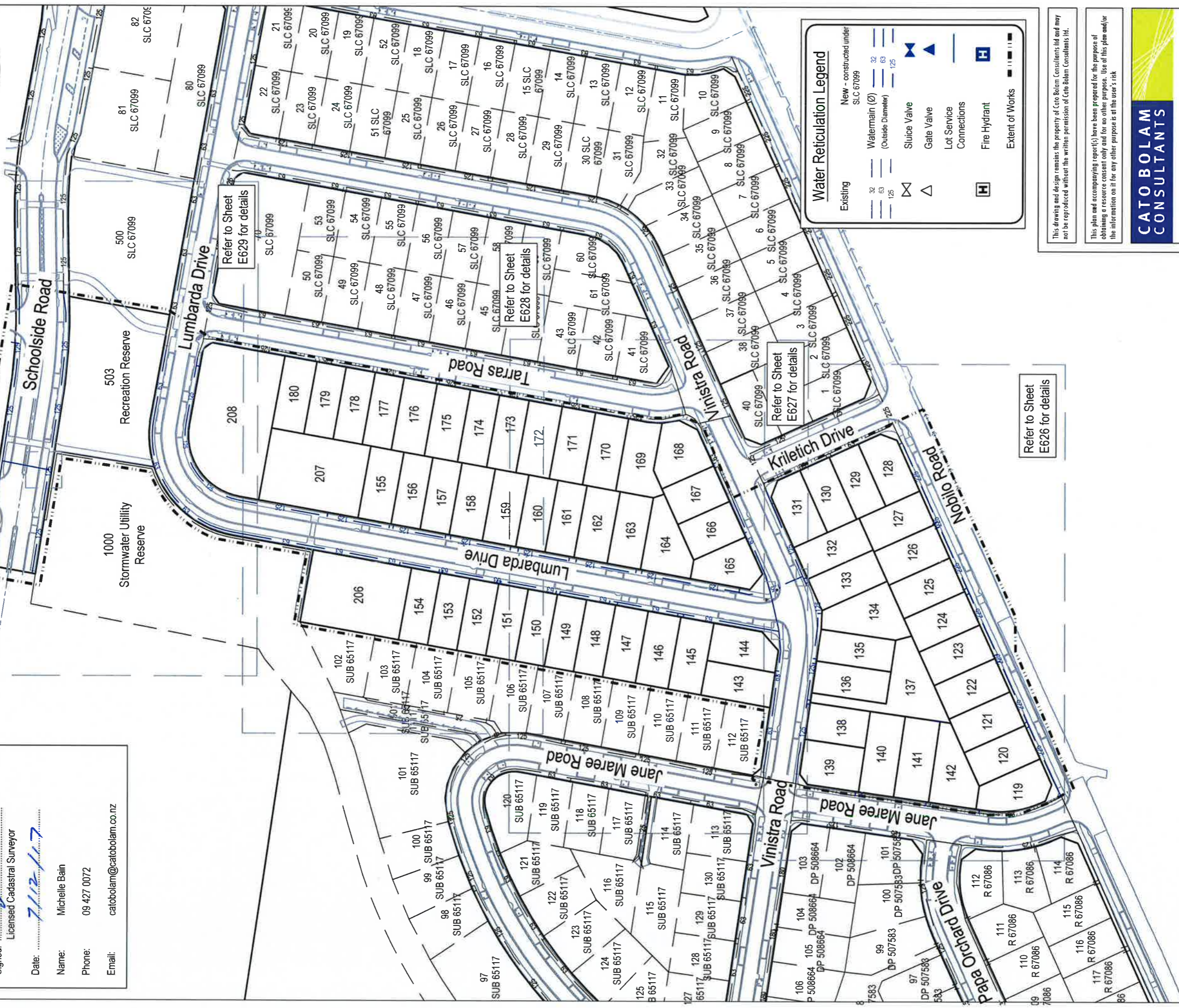
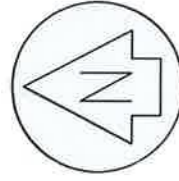
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DATE	CAD REFERENCE	SHEET NO
06/12/2017	33659 E620-E24 SW Retic	E624
DIRECTORY		JOB NO
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Signed:   
 Licensed Cadastral Surveyor

Date: 7/12/17  
 Name: Michelle Bain  
 Phone: 09 427 0072  
 Email: catobolam@catobolam.co.nz



**Water Reticulation Legend**

Existing		New - constructed under SLC 67099	
32	Watermain (Ø)	32	Watermain (Ø)
63	(Outside Diameter)	63	(Outside Diameter)
125		125	
△	Sluice Valve	▲	Gate Valve
△	Lot Service Connections	—	Fire Hydrant
H	Extent of Works	H	Extent of Works

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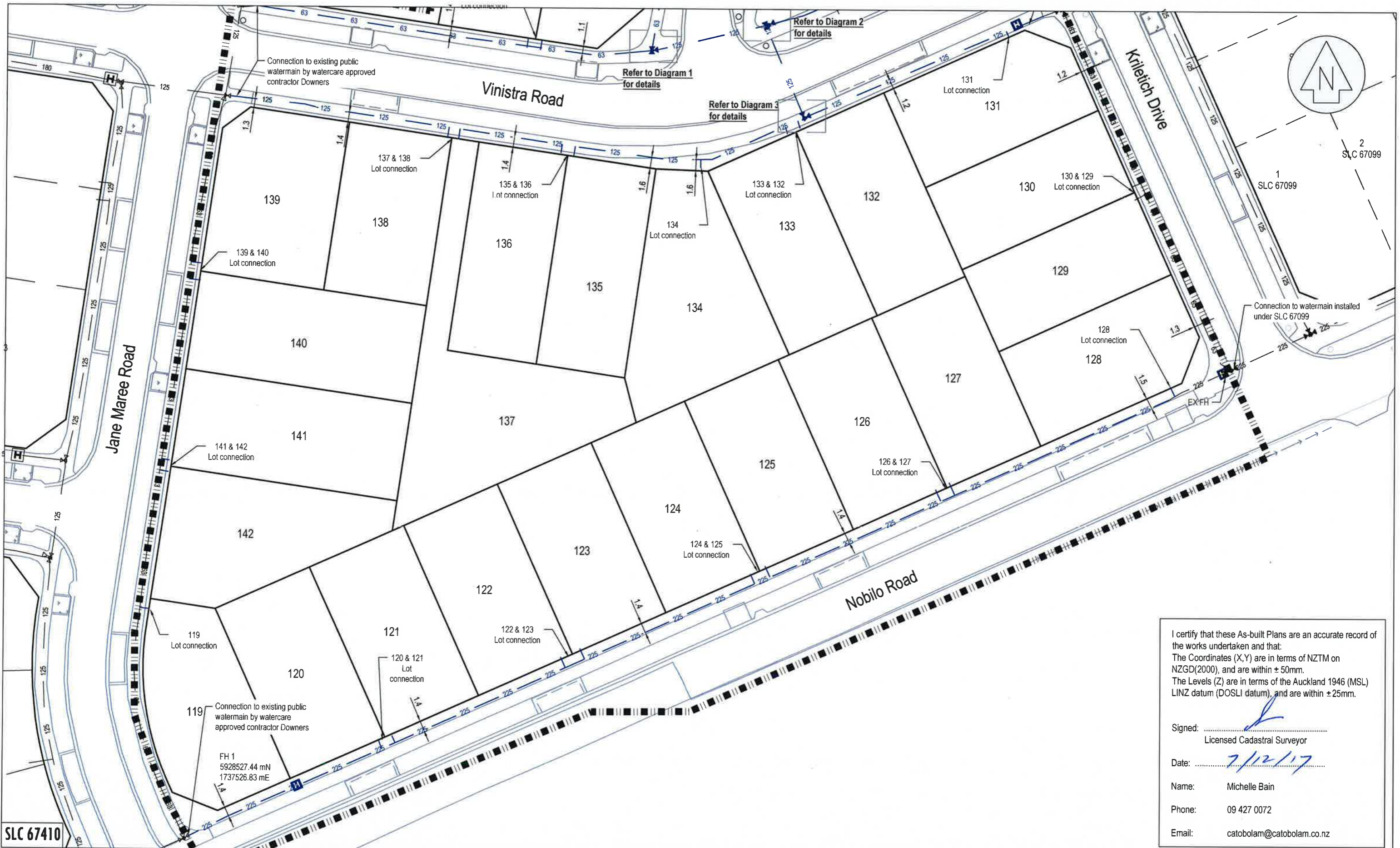
ORIGINAL SCALE	1:1500	ORIGINAL SIZE	A3	REVISION NO	
DATE	06/12/2017	CAD REFERENCE	33659 E625-E629 Water	SHEET NO	E625
DIRECTORY	Z:\33659\ACAD\As-Built Plans			JOB NO	33659

**SLC 67410**

DRAWING TITLE  
**Water Reticulation  
 As Built Plan  
 Sheet 1 of 5**

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 Huapai Triangle Sub Precinct D  
 Stages 1 - 5  
 Huapai**

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APPROVED	TL	04-17



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Refer to Sheet E610 for Drawing Notes & As Built Legend

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**Huapai Triangle Sub Precinct D**  
**Stages 1 - 5**  
**Huapai**

DRAWING TITLE

**Water Reticulation**  
**As Built Plan**  
**Sheet 2 of 5**

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ORIGINAL SCALE	ORIGINAL SIZE	REVISION NO
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DATE	CAD REFERENCE	SHEET NO
07/12/2017	33659 E625-E629 Water	<b>E626</b>
DIRECTORY		JOB NO
Z:\33659\ACAD\As Built Plans		<b>33659</b>

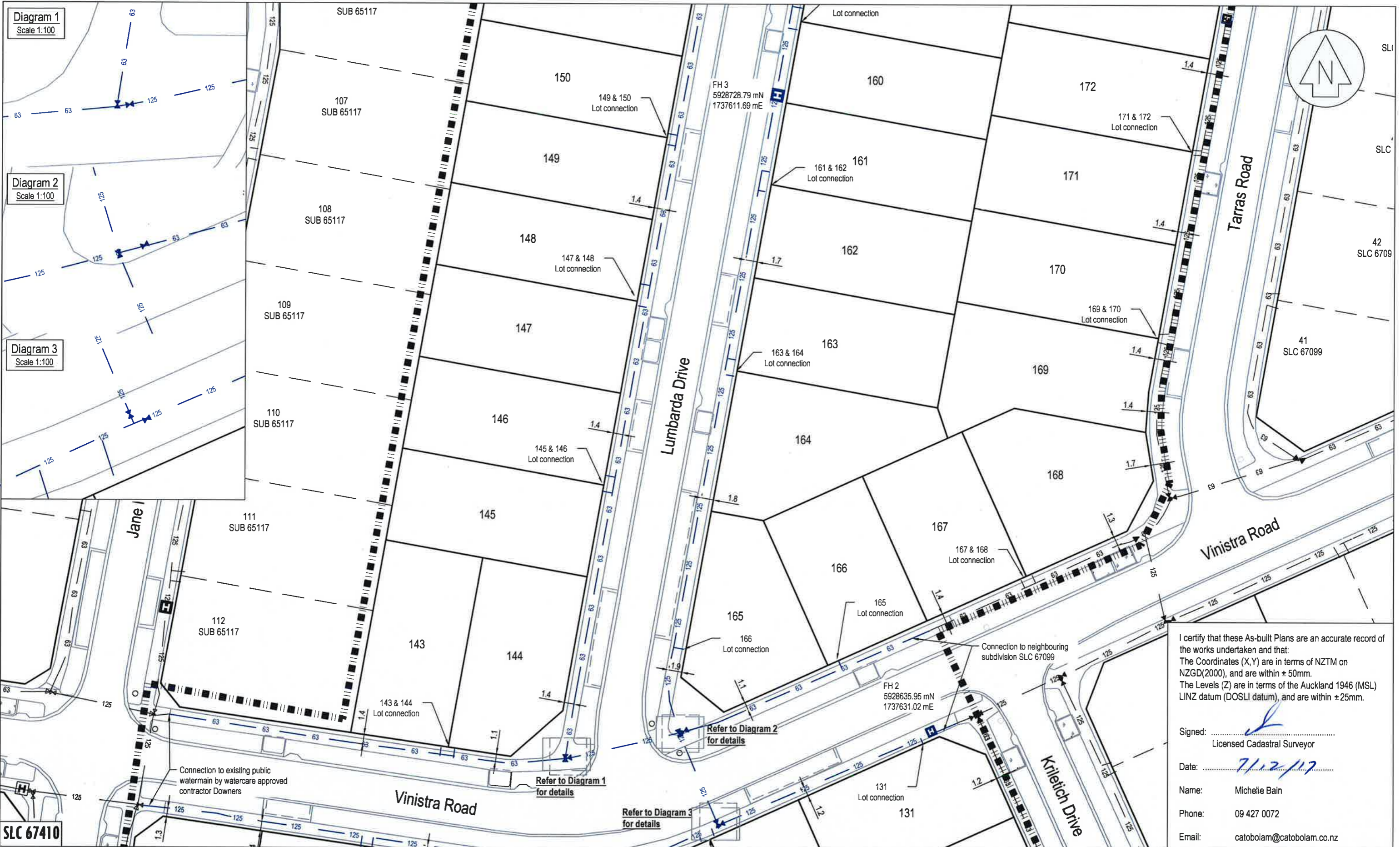


Diagram 1  
Scale 1:100

Diagram 2  
Scale 1:100

Diagram 3  
Scale 1:100

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 Licensed Cadastral Surveyor  
 Date: *7/12/17*  
 Name: Michelle Bain  
 Phone: 09 427 0072  
 Email: catobolam@catobolam.co.nz

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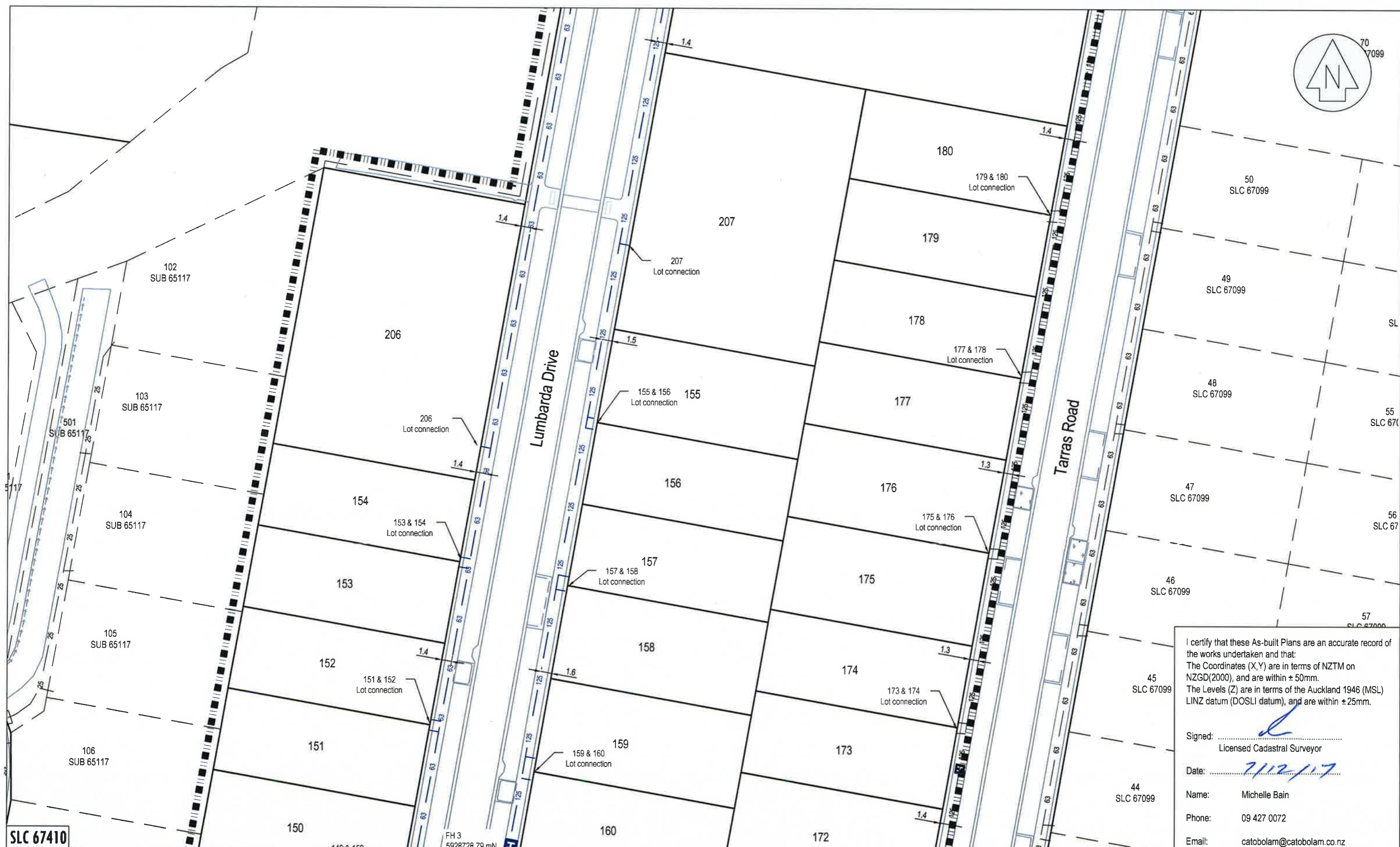
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**Huapai Triangle Sub Precinct D**  
**Stages 1 - 5**  
**Huapai**

DRAWING TITLE  
**Water Reticulation**  
**As Built Plan**  
**Sheet 3 of 5**

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DATE	CAD REFERENCE	SHEET NO
06/12/2017	33659 E625-E629 Water	E627
DIRECTORY		JOB NO
Z:\33659\ACAD\As Built Plans		33659



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Signed:   
 Licensed Cadastral Surveyor

Date: 2/12/17

Name: Michelle Bain  
 Phone: 09 427 0072  
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DESIGNED	BJ	01-17
CHECKED	BM	01-17
APPROVED	TL	01-17

Refer to Sheet E610 for Drawing Notes & As Built Legend

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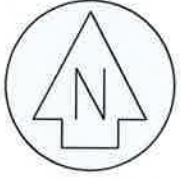
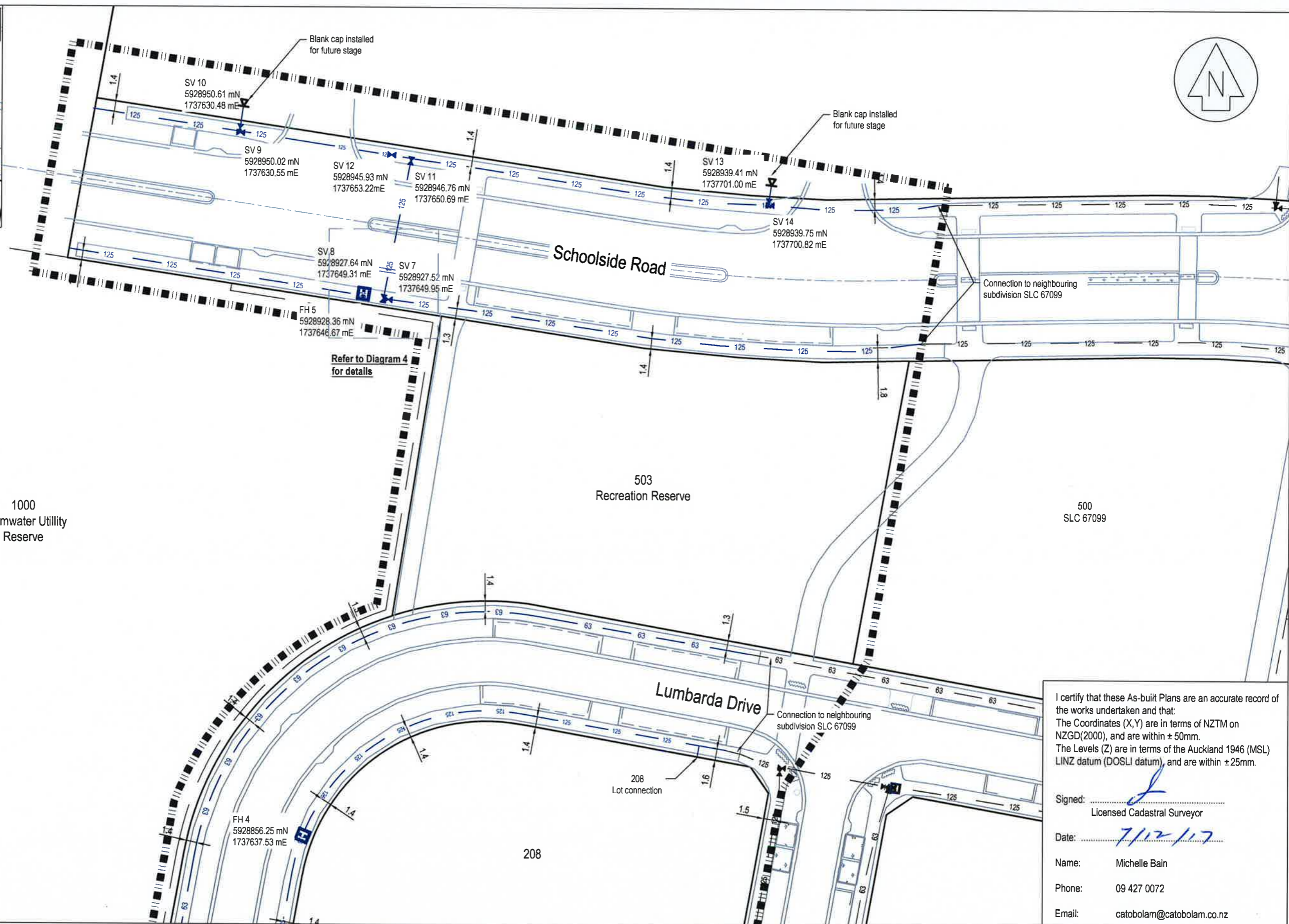
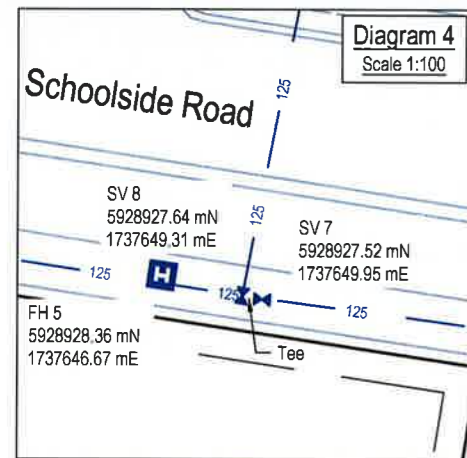
**Cabra Developments Ltd**  
**Huapai Triangle Sub Precinct D**  
**Stages 1 - 5**  
**Huapai**

DRAWING TITLE


**Water Reticulation**  
**As Built Plan**  
**Sheet 4 of 5**

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ORIGINAL SCALE	ORIGINAL SIZE	REVISION NO
1:500	A3	
DATE	CAD REFERENCE	SHEET NO
06/12/2017	33659 E625-E629 Water	<b>E628</b>
DIRECTORY		JOB NO
Z:\33659\ACAD\As Built Plans		<b>33659</b>



I certify that these As-built Plans are an accurate record of the works undertaken and that:  
 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 (DOSLI datum), and are within ± 25mm.

Signed:   
 Licensed Cadastral Surveyor

Date: 7/12/17

Name: Michelle Bain

Phone: 09 427 0072

Email: catobolam@catobolam.co.nz

SLC 67410

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**Huapai Triangle Sub Precinct D**  
**Stages 1 - 5**  
**Huapai**





DRAWING TITLE

**Water Reticulation**  
**As Built Plan**  
**Sheet 5 of 5**

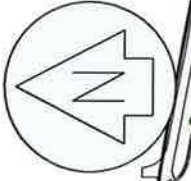
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ORIGINAL SCALE 1:500	ORIGINAL SIZE A3	REVISION NO
DATE 06/12/2017	CAD REFERENCE 33659 E625-E629 Water	SHEET NO E629
DIRECTORY Z:\33659\ACAD\As Built Plans		JOB NO 33659


**As Built Earthworks Legend**

-  Pipeline 45° Zone of Influence Area from invert
-  Catchpits
-  Stormwater
-  Offset dimension from boundary

12.9



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Signed:  Licensed Cadastral Surveyor  
 Date: 7/12/17  
 Name: Michelle Bain  
 Phone: 09 427 0072  
 Email: catobolam@catobolam.co.nz

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ORIGINAL SCALE	1:1500	ORIGINAL SIZE	A3	REVISION NO	
DATE	06/12/2017	CAD REFERENCE	33659 E630-E633 SW Z1	SHEET NO	E630
DIRECTORY	Z:\33659\ACAD\As-Built Plans			JOB NO	33659

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**Cabra Developments Ltd**  
 Huapai Triangle Sub Precinct D  
 Stages 1 - 5  
 Huapai

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DRAWN	BJ	06-17
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DRAWING TITLE

**Stormwater Zone of Influence**  
 As Built Plan  
 Sheet 1 of 4

**SLC 67410**





SLC 67410

**As Built Earthworks Legend**

- Pipeline 45° Zone of Influence Area from invert
- Catchpits
- Stormwater
- Offset dimension from boundary

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Signed:   
 Licensed Cadastral Surveyor

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Name: Michelle Bain  
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**Cabra Developments Ltd  
 Huapai Triangle Sub Precinct D  
 Stages 1 - 5  
 Huapai**

DRAWING TITLE

**Stormwater Zone of Influence  
 As Built Plan  
 Sheet 2 of 4**

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DATE	CAD REFERENCE	SHEET NO
06/12/2017	33659 E630-E633 SW Z1	<b>E631</b>
DIRECTORY	JOB NO	
Z:\33659\ACAD\As Built Plans	<b>33659</b>	



**As Built Earthworks Legend**

- Pipeline 45° Zone of Influence Area from invert
- Catchpits
- Stormwater
- Offset dimension from boundary

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 Licensed Cadastral Surveyor

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**Huapai Triangle Sub Precinct D**  
**Stages 1 - 5**  
**Huapai**

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**Stormwater Zone of Influence**  
**As Built Plan**  
**Sheet 3 of 4**

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DATE	CAD REFERENCE	SHEET NO
06/12/2017	33659 E630-E633 SW 2I	<b>E632</b>
DIRECTORY	Z:\33659\ACAD\As Built Plans	JOB NO
		<b>33659</b>



**As Built Earthworks Legend**

- Pipeline 45° Zone of Influence Area from invert
- Catchpits
- Stormwater
- Offset dimension from boundary

12.9

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Signed: Licensed Cadastral Surveyor

Date: 7/12/17

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Refer to E620 for drawing notes

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**Stages 1 - 5**  
**Huapai**

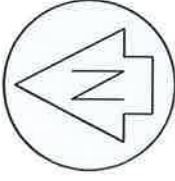
DRAWING TITLE

**Stormwater Zone of Influence**  
**As Built Plan**  
**Sheet 4 of 4**

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DATE	CAD REFERENCE	SHEET NO
06/12/2017	33659 E630-E633 SW Z1	E633
DIRECTORY	JOB NO	
Z:\33659\ACAD\As Built Plans	33659	

SLC 67410



**Retaining Wall Specific Design Legend**

- Retaining walls specific design zone. (Refer to CMW Geosciences Ltd geotechnical completion report for design requirements)
- Concrete keystone Retaining Wall
- Timber Retaining Wall
- Offset dimension from boundary as shown on plan

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ORIGINAL SCALE	1:1500	ORIGINAL SIZE	A3	REVISION NO	
DATE	06/12/2017	CAD REFERENCE	33659 E634-E636-RW-50	SHEET NO	E634
DIRECTORY	Z:\33659\ACAD\As Built Plans			JOB NO	33659

201

1000 Stormwater Utility Reserve

503 Recreation Reserve

Refer to Sheet E636 for details

Refer to Sheet E635 for details

**SLC 67410**

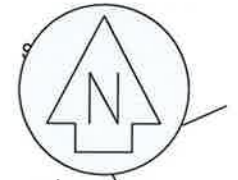
REVISION (DESCRIPTIONS)	NAME	DATE
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CHECKED	BM	0d-17
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**Cabra Developments Ltd**  
**Huapai Triangle Sub Precinct D**  
**Stages 1 - 5**  
**Huapai**

DRAWING TITLE

**Retaining Wall Specific Design**  
**As Built Plan**  
**Sheet 1 of 3**



1 SLC 67099  
2 SLC 67099

**Retaining Wall Specific Design Legend**

- Retaining walls specific design zone. (Refer to CMW Geosciences Ltd geotechnical completion report for design requirements)
- Concrete keystone Retaining Wall
- Timber Retaining Wall
- 12.9 Offset dimension from boundary as shown on plan

SLC 67410

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**Huapai Triangle Sub Precinct D**  
**Stages 1 - 5**  
**Huapai**

DRAWING TITLE  
**Retaining Wall Specific Design**  
**As Built Plan**  
**Sheet 2 of 3**

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ORIGINAL SCALE 1:500	ORIGINAL SIZE A3	REVISION NO
DATE 06/12/2017	CAD REFERENCE 33659 E634-E636 RW SD	SHEET NO <b>E635</b>
DIRECTORY Z:\33659\ACAD\As Built Plans		JOB NO <b>33659</b>



**Retaining Wall Specific Design Legend**

- Retaining walls specific design zone. (Refer to CMW Geosciences Ltd geotechnical completion report for design requirements)
- Concrete keystone Retaining Wall
- Timber Retaining Wall
- 12.9  
Offset dimension from boundary as shown on plan

SLC 67410

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**Huapai Triangle Sub Precinct D**  
**Stages 1 - 5**  
**Huapai**

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**Retaining Wall Specific Design**  
**As Built Plan**  
**Sheet 3 of 3**

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ORIGINAL SCALE 1:500	ORIGINAL SIZE A3	REVISION NO
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DIRECTORY Z:\33659\ACAD\As Built Plans		JOB NO <b>33659</b>

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Signed: \_\_\_\_\_  
 Licensed Cadastral Surveyor

Date: 7/12/17

Name: Brad Mowat  
 Phone: 09 427 0072

Email: catobolam@catobolam.co.nz

SWMH J-3 1800Ø  
 Scruffy Dome  
 LL 26.59  
 Slot IL 25.88  
 IL 24.34 (J-4)

### Reserve Landscape As Built Legend

- |  |   |
|--|---|
| Existing   | New -As Constructed under SUB 67099     |
|  |   |
|  |   |
| Lot 503 Reserve  |   |
| Street lights Cree XSP1 IP66 T210 22W system 4000k on Vicpole round tapered 5m pole and no arm degree tilt (set back behind footpath) (G=80 Candela=317) |   |
|  | Gleditsia trees (PB95)                  |
|  | Pin Oak (PB95)                          |
|  | Plate trees (PB95)                      |
|  | Concrete Footpath                       |
|  | As built final contour (1m interval) 35 |
|  | As built final contour (0.5m interval)  |
|  | Grass Areas                             |

### NOTES

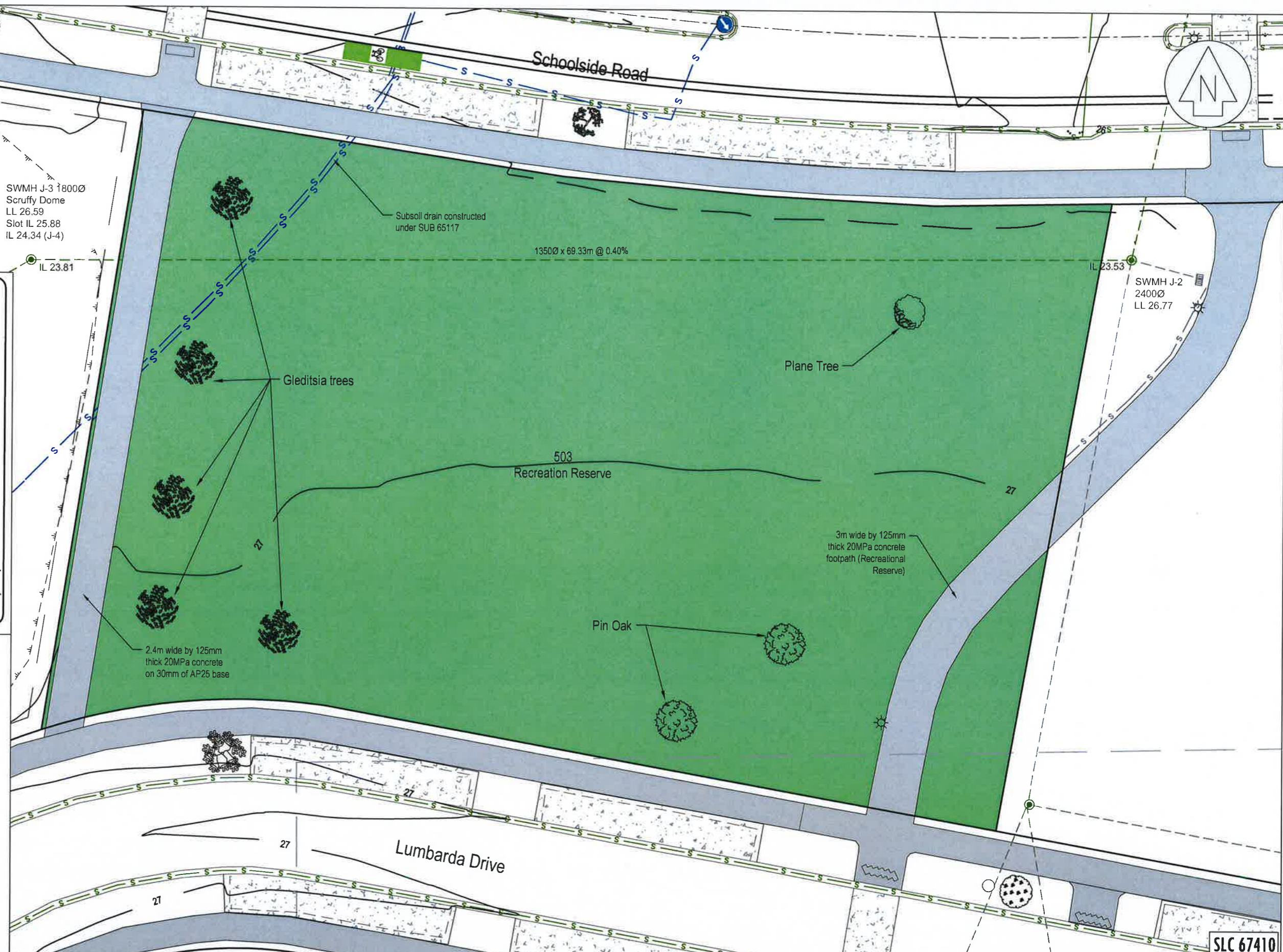
- General**
- Levels are in terms of LINZ Datum 1946.
  - Coordinates are in terms of NZTM.
  - All infrastructure is public unless otherwise shown.

- Landscaping**
- Landscape planting completed in accordance with approved landscape plans prepared by LASF dated 04/03/2016

- Final Contours**
- Contours are finished levels as surveyed at 21/08/2017. Contour interval 0.5m

- Pavement Formation**
- Footpaths**
- 2.4 - 3m wide, 125mm 20MPa concrete on 50mm AP25 bedding

- Stormwater Reticulation**
- Refer to stormwater As Built sheets E620 - E624 for details



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DRAWN	BJ	Oct-17
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**Cabra Developments Ltd**  
**Huapai Triangle Sub Precinct D**  
**Stages 1 - 5**  
**Huapai**

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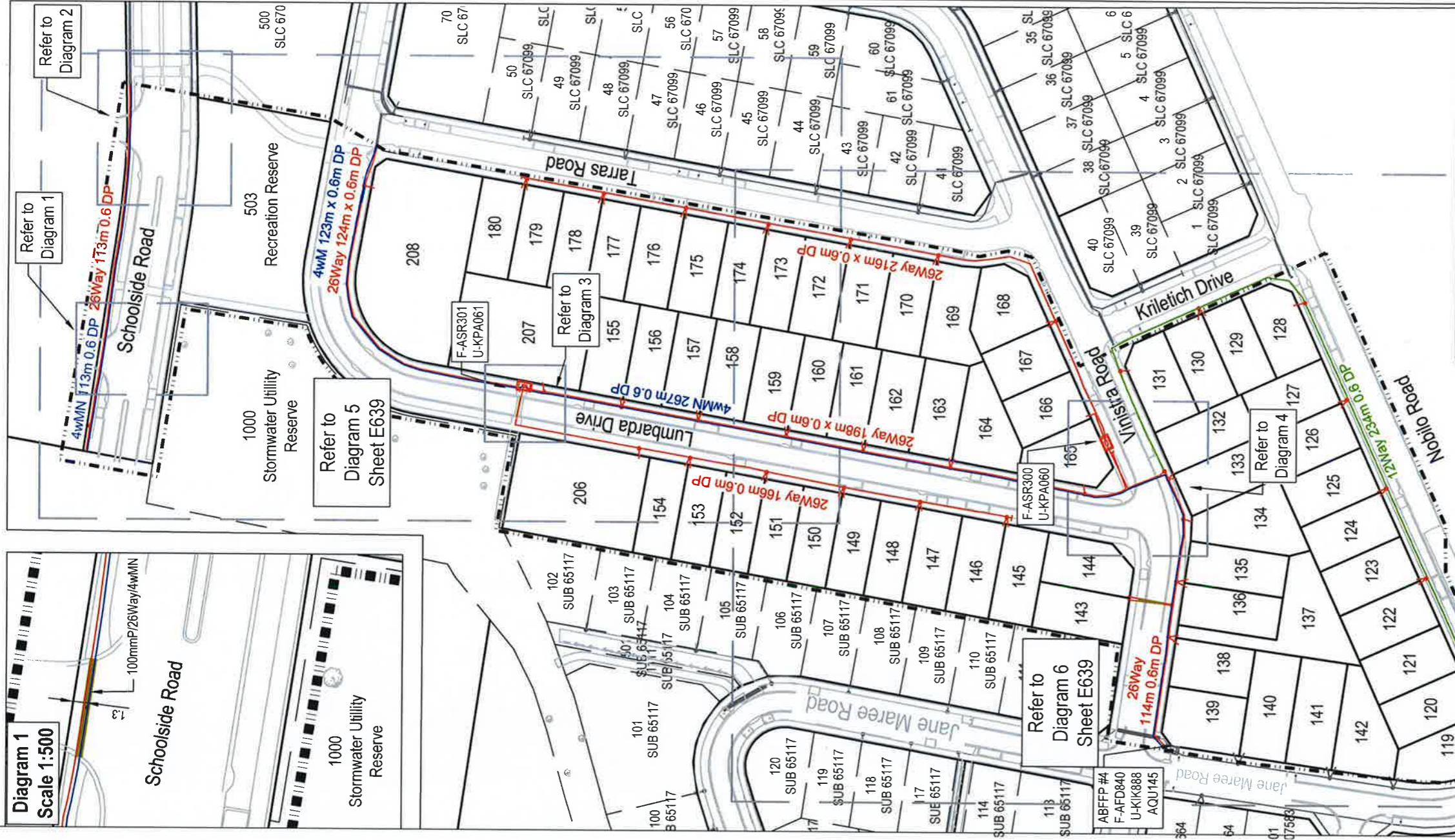
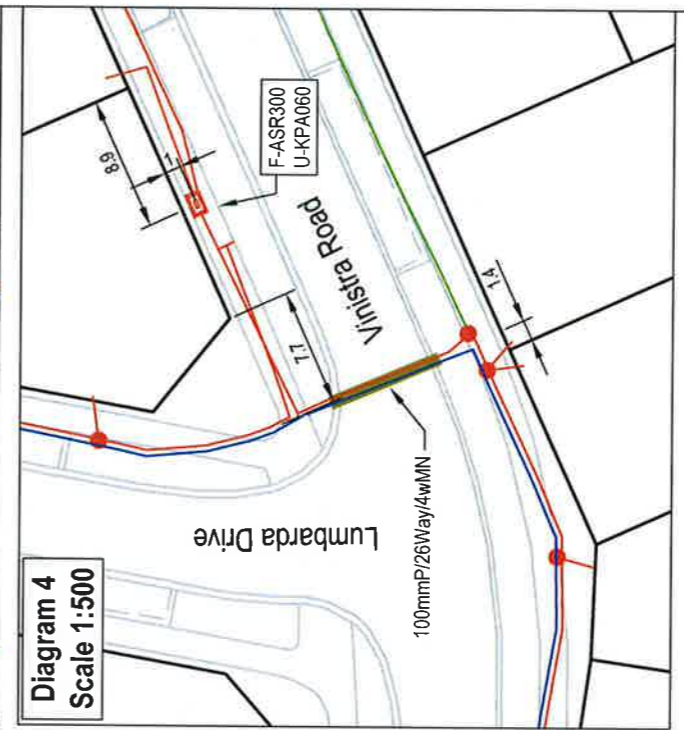
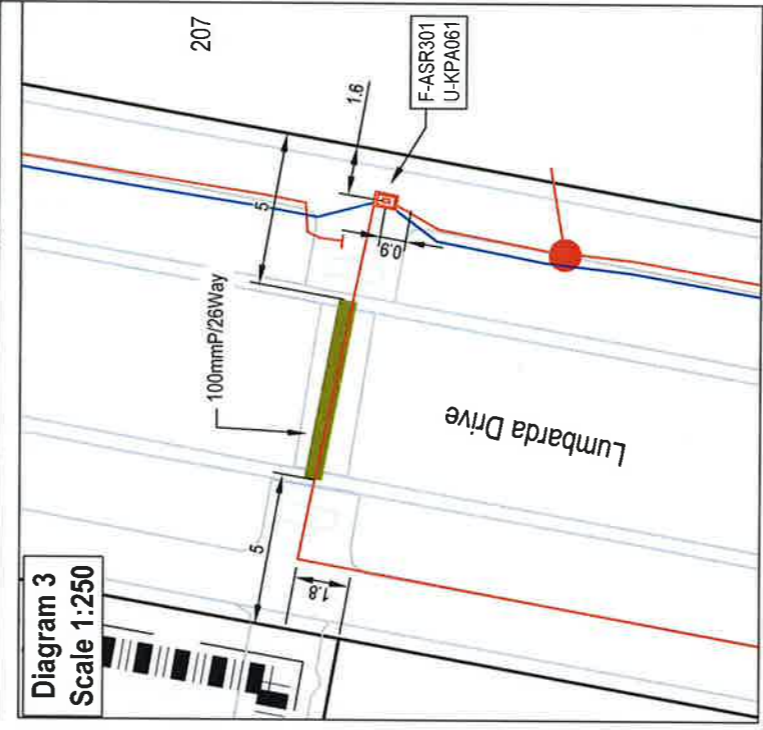
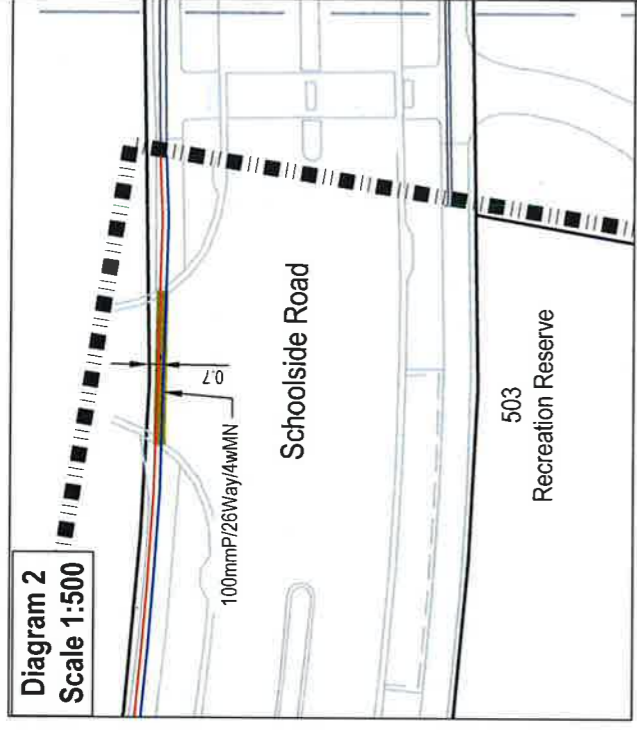
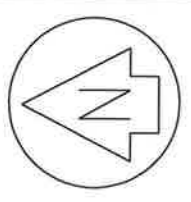
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**Recreation Reserve Landscape**  
**As Built Plan**

SLC 67410

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ORIGINAL SCALE	ORIGINAL SIZE	REVISION NO
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DATE	CAD REFERENCE	SHEET NO
06/12/2017	33659 E637 RES LS	E637
DIRECTORY		JOB NO
Z:\33659\ACAD\As Built Plans		33659



**Legend**

Existing	12Way	12 Way Ribbonnet	26Way	26 Way Ribbonnet	4wMN	4 Way Ribbonnet	Chorus Manhole	Duct	Joint	Stage Boundary
New - as built	26Way	4wMN	12Way	26Way	4wMN	Chorus Manhole	Duct	Joint	Stage Boundary	

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ORIGINAL SCALE	1:1500	ORIGINAL SIZE	A3	REVISION NO	
DATE	31/10/2017	CAD REFERENCE	3359 F638 E639	SHEET NO	E638
DIRECTORY	Z:\33659\ACAD			JOB NO	33659

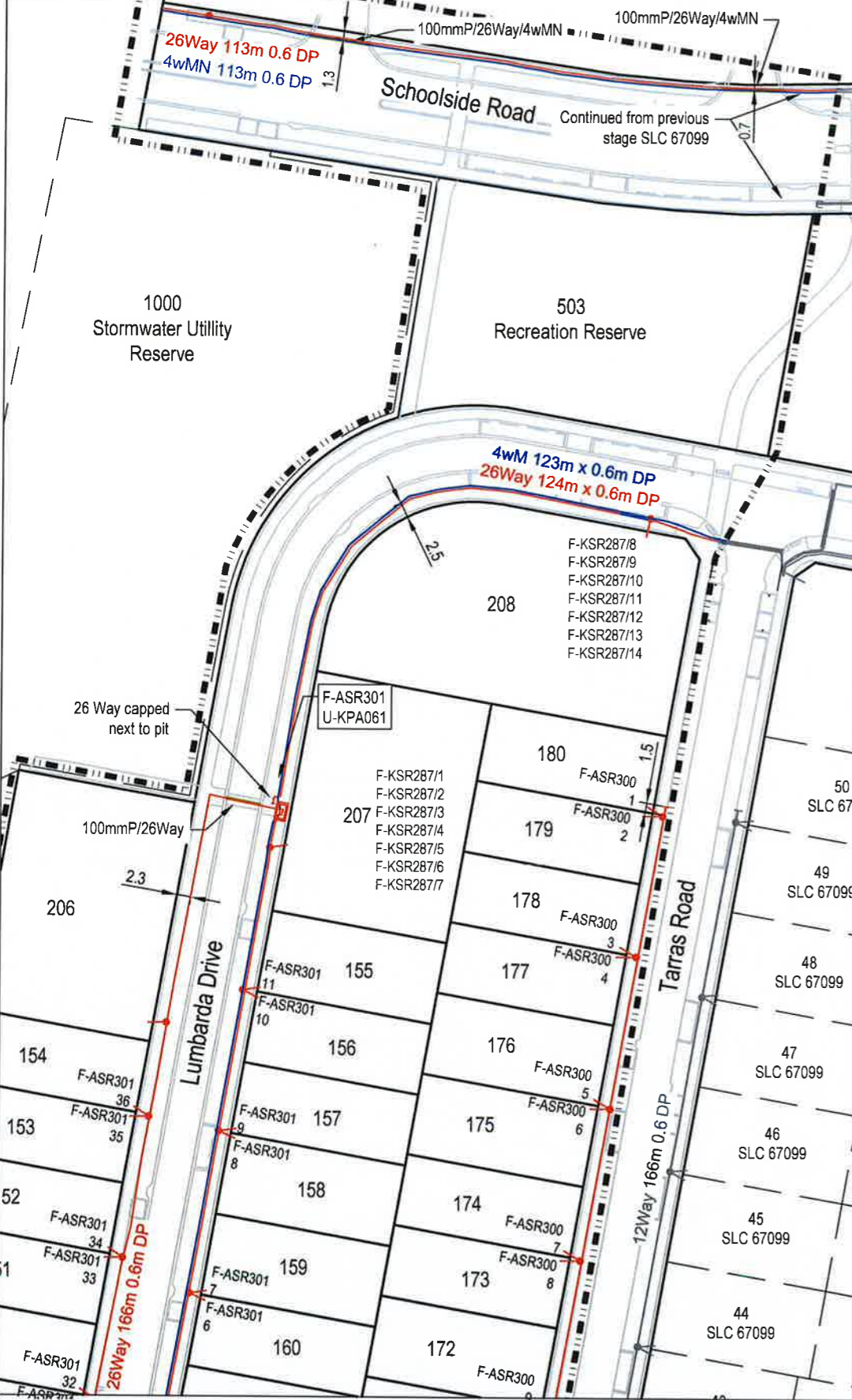
Telecommunications  
 As Built Plan  
 Sheet 1 of 2

Cabra Developments Ltd  
 Huapai Triangle Sub Precinct D  
 Stages 1 - 5  
 Huapai

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APPROVED	TL	10/17



**Diagram 5**  
Scale 1:1000



**Diagram 6**  
Scale 1:1000



**Legend**

Existing		New - as built	
	12Way		12Way Ribbonet
	26Way		26Way Ribbonet
	4wMN		4Way Ribbonet
	Chorus Manhole		Chorus Manhole
	Duct		Duct
	Joint		Joint
	Stage Boundary		Stage Boundary

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Huapai Triangle Sub Precinct D  
Stages 1 - 5  
Huapai

DRAWING TITLE  
**Telecommunications**  
As Built Plan  
Sheet 2 of 2

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DATE 31/10/2017	CAD REFERENCE 3359 E639 E639	SHEET NO <b>E639</b>
DIRECTORY Z:\33659\ACAD	IMAGE FILE	JOB NO <b>33659</b>