

R58884/B

DP 470491

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CATO BOLAM CONSULTANTS

SURVEYORS PLANNERS ENGINEERS

CATO BOLAM CONSULTANTS LTD
 88 Central Road, Henderson
 Auckland PO Box 21-355
 Wellington 0650

phone 09-437 0486
 fax 09-437 0504
 email cato@bolam.co.nz

ORIGINAL SCALE	ORIGINAL SIZE	REVISION NO
1:1000	A3	
DATE	CAD REFERENCE	SHEET NO
21/02/14	31834 Sig2 Pipe Infl	E606
DIRECTORY		JOB NO
1_31834.A3D		31834

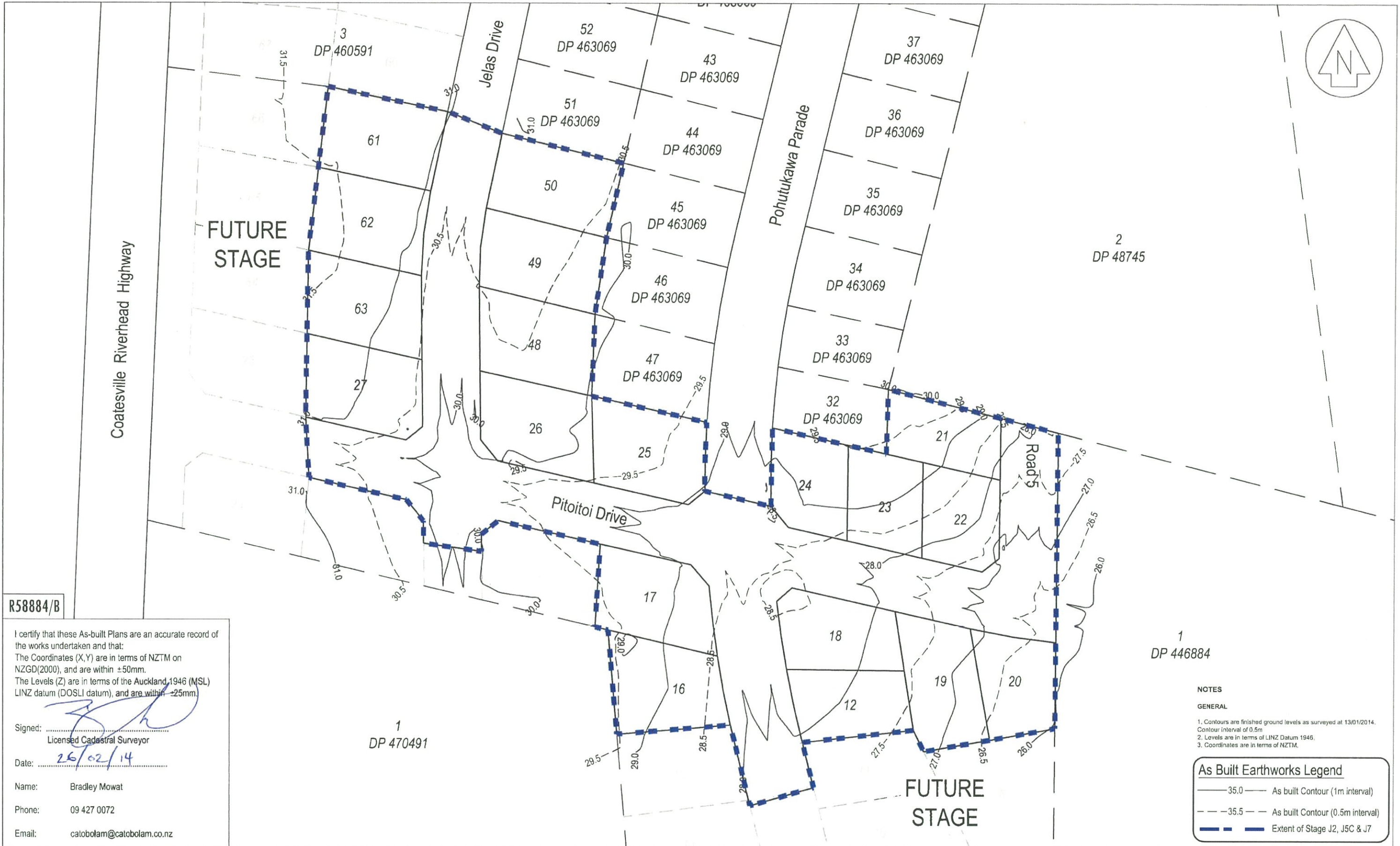
No.	REVISION (DESCRIPTIONS)	NAME	DATE

CLIENT

Cabra Developments Ltd
 Kaipara Portage Road
 Riverhead

DRAWING TITLE

Stages J2, J5C & J7
 Stormwater Pipeline
 Zone of Influence Plan



R58884/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: 26/02/14
 Name: Bradley Mowat
 Phone: 09 427 0072
 Email: catobolam@catobolam.co.nz

1
DP 446884

- NOTES**
GENERAL
1. Contours are finished ground levels as surveyed at 13/01/2014. Contour interval of 0.5m
 2. Levels are in terms of LINZ Datum 1946.
 3. Coordinates are in terms of NZTM.

As Built Earthworks Legend

- 35.0 — As built Contour (1m interval)
- - - 35.5 - - - As built Contour (0.5m interval)
- — — — — Extent of Stage J2, J5C & J7

CATO BOLAM CONSULTANTS
 SURVEYORS PLANNERS ENGINEERS
 CATO BOLAM CONSULTANTS LTD
 19 Tamarii Avenue
 PO Box 157
 Orewa 0946
 phone 09-427 0072
 fax 09-426 7331
 email catobolam@catobolam.co.nz

No.	REVISION (DESCRIPTIONS)	NAME	DATE
R2	Minor amendments	KM	21-2-14
R1	Final contour plan	BM	14-2-14

	NAME	DATE
SURVEYED	BJ	01-14
DESIGNED	TL	12-12
DRAWN	BM	01-14
CHECKED		
APPROVED		

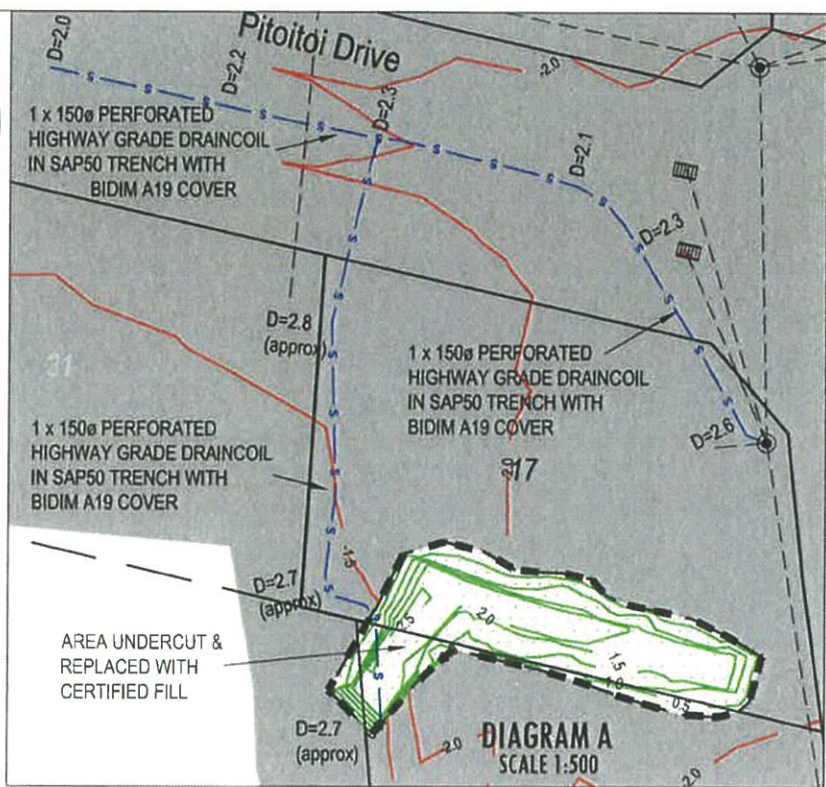
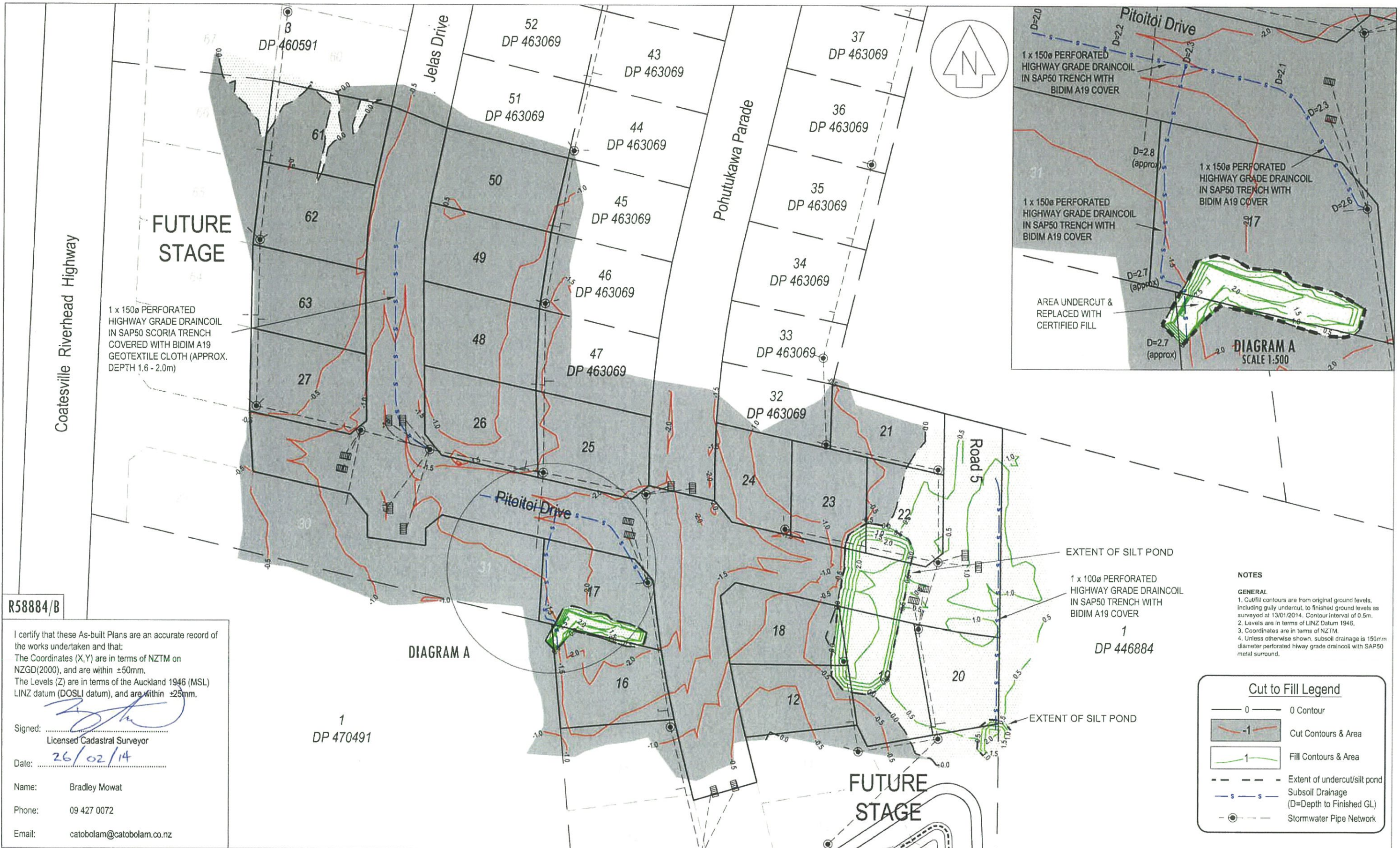
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Cabra Developments Ltd
 Kaipara Portage Road
 Riverhead

DRAWING TITLE
Stages J2, J5C & J7
Final Contour Level
As Built Plan

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ORIGINAL SCALE	ORIGINAL SIZE	REVISION NO
1:1000	A3	R2
DATE	CAD REFERENCE	SHEET NO
31/01/14	31834 Stg 2 Asb Contour	E600
DIRECTORY		JOB NO
J:\31834\ACAD\Asbuilt		31834



1 x 150mm PERFORATED HIGHWAY GRADE DRAINCOIL IN SAP50 SCORIA TRENCH COVERED WITH BIDIM A19 GEOTEXTILE CLOTH (APPROX. DEPTH 1.6 - 2.0m)

EXTENT OF SILT POND
1 x 100mm PERFORATED HIGHWAY GRADE DRAINCOIL IN SAP50 TRENCH WITH BIDIM A19 COVER
1 DP 446884

- NOTES**
- GENERAL**
1. Cut/fill contours are from original ground levels, including gully undercut, to finished ground levels as surveyed at 13/01/2014. Contour interval of 0.5m.
 2. Levels are in terms of LINZ Datum 1946.
 3. Coordinates are in terms of NZTM.
 4. Unless otherwise shown, subsoil drainage is 150mm diameter perforated highway grade draincoil with SAP50 metal surround.

Cut to Fill Legend

- 0 0 Contour
- 1 Cut Contours & Area
- 1 Fill Contours & Area
- - - Extent of undercut/silt pond
- s - s Subsoil Drainage (D=Depth to Finished GL)
- Stormwater Pipe Network

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1 DP 470491

DIAGRAM A

FUTURE STAGE

CATOBOLAM CONSULTANTS

SURVEYORS PLANNERS ENGINEERS

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19 Tamariki Avenue
PO Box 157
Drewa 0946

phone 09-427 0072
fax 09-426 7331
email catobolam@catobolam.co.nz

No.	REVISION (DESCRIPTIONS)	NAME	DATE
R1	Minor Amendments	KM	21-2-14

	NAME	DATE
SURVEYED	BJ	01-14
DESIGNED	TL	12-12
DRAWN	BM	02-14
CHECKED		
APPROVED		

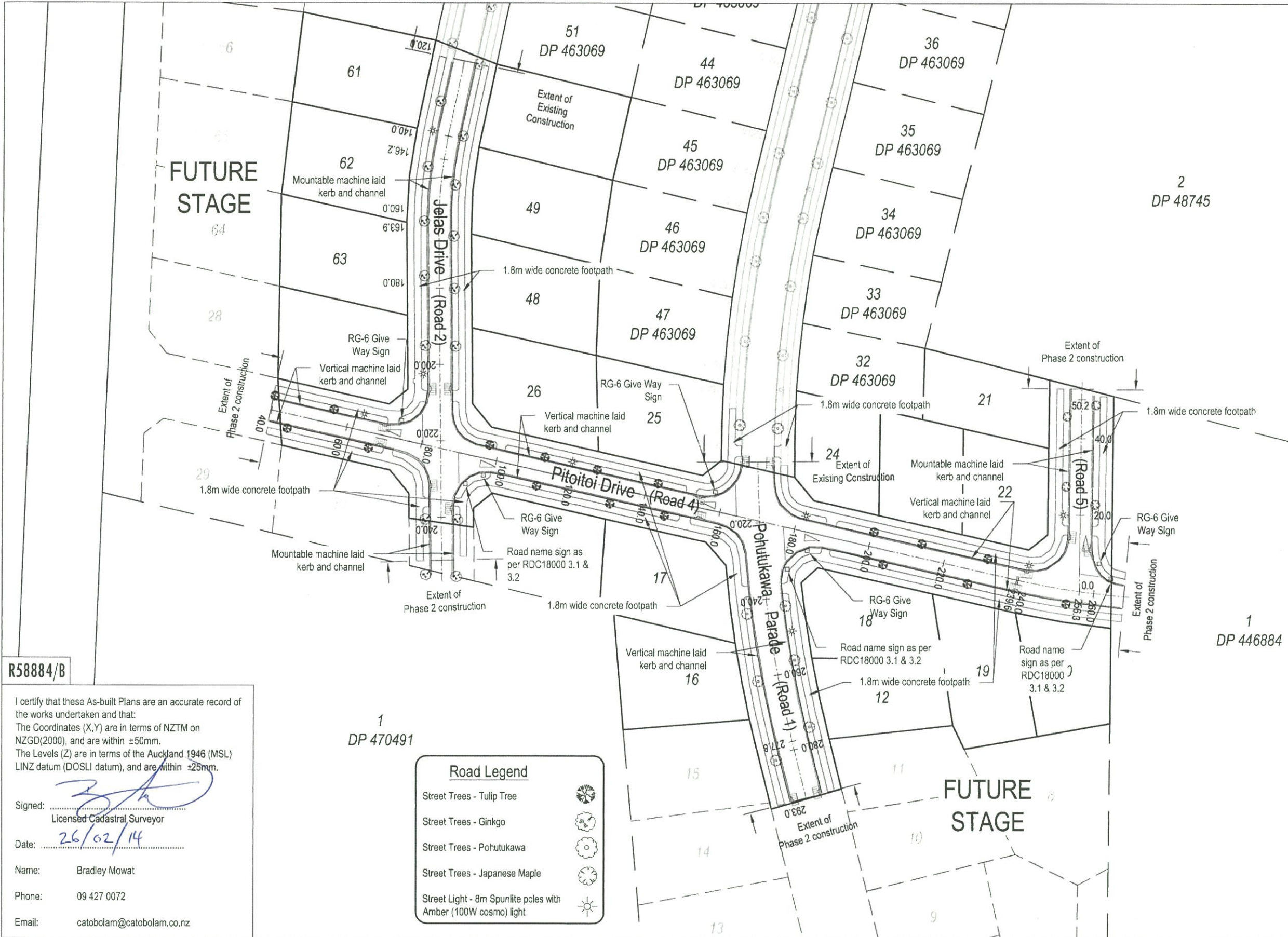
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CLIENT
Cabra Developments Ltd
Kaipara Portage Road
Riverhead

DRAWING TITLE
**Stages J2, J5C & J7
Cut and Fill Contour
As Built Plan**

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ORIGINAL SCALE	ORIGINAL SIZE	REVISION NO
1:1000	A3	R1
DATE	CAD REFERENCE	SHEET NO
14/02/14	31834 Sig 2 Asb Cut Fill	E601
DIRECTORY	JOB NO	
J:\31132\Acad\Asbuilt		31834



NOTES

GENERAL

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

Pavement Formation

Road 1 - Pohutukawa Parade
 Subgrade - Ch 204-235 undercut by 500mm; replaced with woodhill sand fully wrapped in Bidim A19 geotextile cloth.
 Ch 235-291 stabilised with 7kg/m² Lime and 7kg/m² Cement to a depth of 250mm.
 Subbase - Ch 204-235 - 150mm GAP65
 Ch 235-291 - 250mm GAP65
 Basecourse - 100mm TNZ AP40
 Seal - 30mm Mix 10 hotmix on grade 4 chipseal

Road 2 - Jelas Drive
 Subgrade - Ch 120-150 & 210-251 undercut 500mm
 Ch 150-210 undercut 700mm; replaced with woodhill sand fully wrapped in Bidim A19 geotextile cloth.
 Subbase - 150mm GAP65
 Basecourse - 100mm TNZ AP40
 Seal - 30mm Mix 10 hotmix on grade 4 chipseal

Road 4 - Pitoitoi Drive
 Subgrade - Ch 40-100 & 150-185 undercut 500mm
 Ch 100-150 undercut 700mm; replaced with woodhill sand fully wrapped in Bidim A19 geotextile cloth.
 Ch 185-267 stabilised with 7kg/m² Lime and 7kg/m² Cement to a depth of 250mm.
 Subbase - Ch 40 - 185 - 150mm GAP65
 Ch 185 - 267 - 250mm GAP65
 Basecourse - 100mm TNZ AP40
 Seal - 30mm Mix 10 hotmix on grade 4 chipseal

Roads 5
 Subgrade - Stabilised with 7kg/m² Lime and 7kg/m² Cement to a depth of 250mm.
 Subbase - 250mm GAP65
 Basecourse - 100mm TNZ AP40
 Seal - 30mm Mix 10 hotmix on grade 4 chipseal

Footpaths - 125mm thick 20MPa concrete 1.8m wide

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Road Legend

Street Trees - Tulip Tree	
Street Trees - Ginkgo	
Street Trees - Pohutukawa	
Street Trees - Japanese Maple	
Street Light - 8m Spunlite poles with Amber (100W cosmo) light	

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 Oruwa 0946

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No.	REVISION (DESCRIPTIONS)	NAME	DATE
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	DESIGNED	TL	12-12
	DRAWN	BH	02-14
	CHECKED		
	APPROVED		

CLIENT

Cabra Developments Ltd
 Kaipara Portage Road
 Riverhead

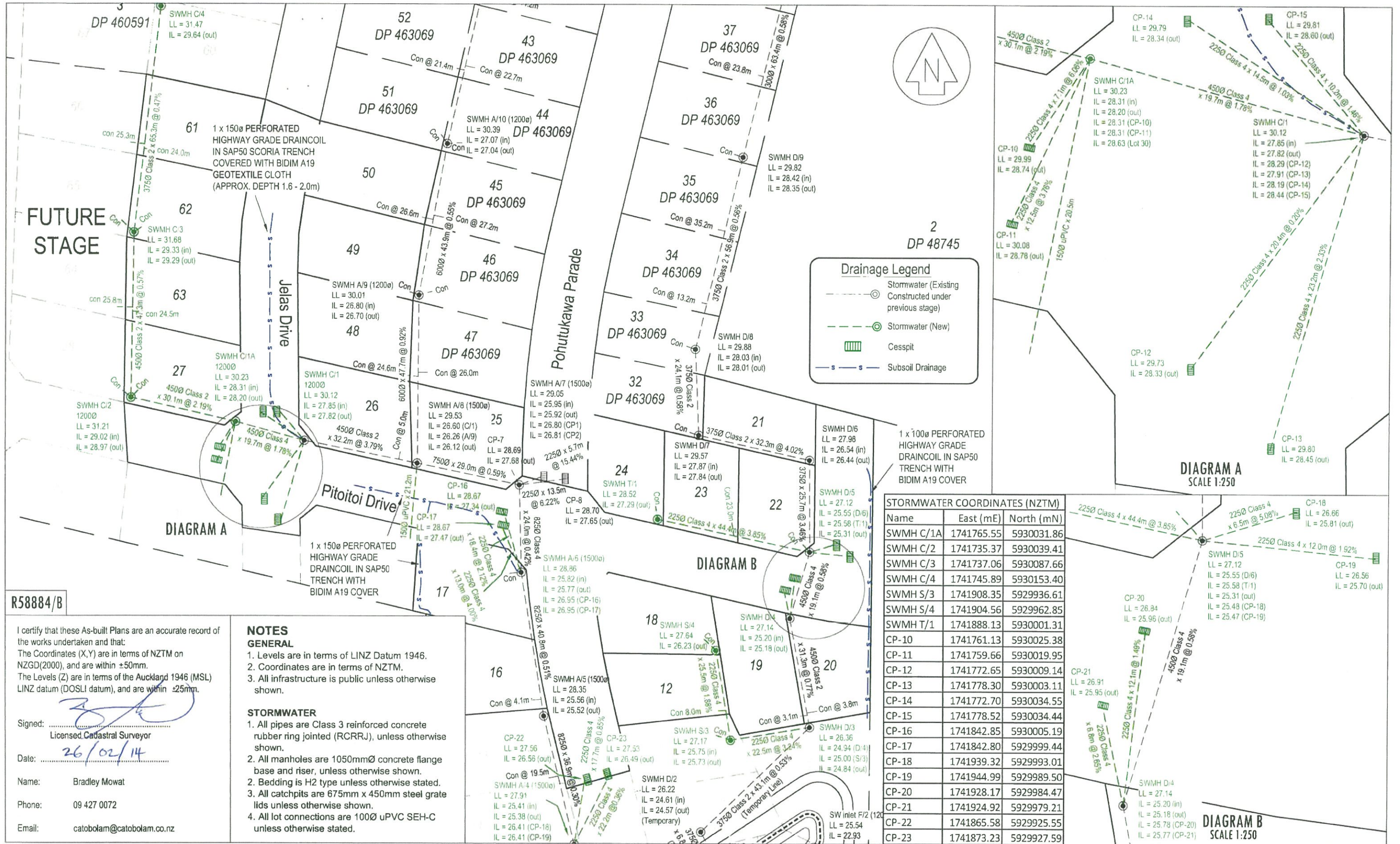
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DRAWING TITLE

**Stages J2, J5C & J7
 Road As Built Plan**

ORIGINAL SCALE	ORIGINAL SIZE	REVISION NO
1:1000	A3	
DATE	CAD REFERENCE	SHEET NO
21/02/14	31834 Stg 2 Ash Road	E602
DIRECTORY	IMAGE FILE	JOB NO
J:\31834\ACAD		31834

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Name	East (mE)	North (mN)
SWMH C/1A	1741765.55	5930031.86
SWMH C/2	1741735.37	5930039.41
SWMH C/3	1741737.06	5930087.66
SWMH C/4	1741745.89	5930153.40
SWMH S/3	1741908.35	5929936.61
SWMH S/4	1741904.56	5929962.85
SWMH T/1	1741888.13	5930001.31
CP-10	1741761.13	5930025.38
CP-11	1741759.66	5930019.95
CP-12	1741772.65	5930009.14
CP-13	1741778.30	5930003.11
CP-14	1741772.70	5930034.55
CP-15	1741778.52	5930034.44
CP-16	1741842.85	5930005.19
CP-17	1741842.80	5929999.44
CP-18	1741939.32	5929993.01
CP-19	1741944.99	5929989.50
CP-20	1741928.17	5929984.47
CP-21	1741924.92	5929979.21
CP-22	1741865.58	5929925.55
CP-23	1741873.23	5929927.59

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NOTES GENERAL

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- All infrastructure is public unless otherwise shown.

STORMWATER

- All pipes are Class 3 reinforced concrete rubber ring jointed (RCRRJ), unless otherwise shown.
- All manholes are 1050mmØ concrete flange base and riser, unless otherwise shown.
- Bedding is H2 type unless otherwise stated.
- All catchpits are 675mm x 450mm steel grate lids unless otherwise shown.
- All lot connections are 100Ø uPVC SEH-C unless otherwise stated.

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 Orewa 0946

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No.	REVISION (DESCRIPTIONS)	NAME	DATE

CLIENT
Cabra Developments Ltd
 Kaipara Portage Road
 Riverhead

DRAWING TITLE
Stages J2, J5C & J7
Stormwater As Built Plan

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ORIGINAL SCALE	ORIGINAL SIZE	REVISION NO
1:1000	A3	
DATE	CAD REFERENCE	SHEET NO
21/02/14	31834 Sig2 Asb SW	E603
DIRECTORY	IMAGE FILE	JOB NO
J:\31834\ACAD		31834

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Drainage Legend

- PWC Sewer (New) — 63 —
- PWC Sewer (Existing) — SS —
- Isolation Valve
- Flushing Point
- Direction of Flow
- Boundary Kit

- 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.

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 Orewa 0946

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REVISION (DESCRIPTIONS)	NAME	DATE
R1 Final Plan	BM	21-2-14
SURVEYED	BJ	01-14
DESIGNED	TL	12-12
DRAWN	BM	01-14
CHECKED		
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 Kaipara Portage Road
 Riverhead

DRAWING TITLE

Stages J2, J5C & J7
As Built Plan
PWC Wastewater Reticulation

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ORIGINAL SCALE	ORIGINAL SIZE	REVISION NO
1:1000	A3	R1
DATE	CAD REFERENCE	SHEET NO
13/01/14	31834 Slg 2 Ash PWC Sewer.dwg	E605
DIRECTORY	J:\31834\Acad\	JOB NO
		31834