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This plan and accompanying report(s) have been prepared for the purpose of obtaining a resource consent only and for no other purpose. Use of this plan and/or the information on it for any other purpose is at the user's risk.

- NOTES**
- GENERAL**
1. Contours are finished ground levels as surveyed at 15/5/2015. Contour interval of 0.5m
 2. Levels are in terms of LINZ Datum 1946.
 3. Coordinates are in terms of NZTM.

Right of Ways
175mm 20MPa exposed aggregate concrete with one layer of 665 mesh and 4kg/m³ of black oxide on 100mm compacted GAP 40 metal bedding.

Vehicle Crossings
175mm 20MPa concrete on 100mm compacted GAP 40 metal bedding.

As Built Earthworks Legend

- 35.0 — As built Contour (1.0m interval)
- - - 35.5 - - - As built Contour (0.5m interval)
- — — — — Extent of Stage J1B
- — — — — Top/Bottom of Bank

| REVISION (DESCRIPTIONS) | NAME | DATE |
|-------------------------|------|------|
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| | | |

| | NAME | DATE |
|----------|------|-------|
| SURVEYED | PB | 05/15 |
| DESIGNED | BM | 09/14 |
| DRAWN | BM | 05/15 |
| CHECKED | | |
| APPROVED | | |

CATO BOLAM CONSULTANTS

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CLIENT

Cabra Developments Ltd
Kaipara Portage Road
Riverhead

DRAWING TITLE

Stages J1B
Final Contour Level & Right of Way
As Built Plan

| | | |
|----------------------------|---------------------------------|------------------|
| ORIGINAL SCALE 1:500 | ORIGINAL SIZE A3 | REVISION NO |
| DATE 20/05/2015 | CAD REFERENCE 33100 E600.dwg | SHEET NO E600 |
| DIRECTORY J:\33100\ACAD | | JOB NO 33100 |

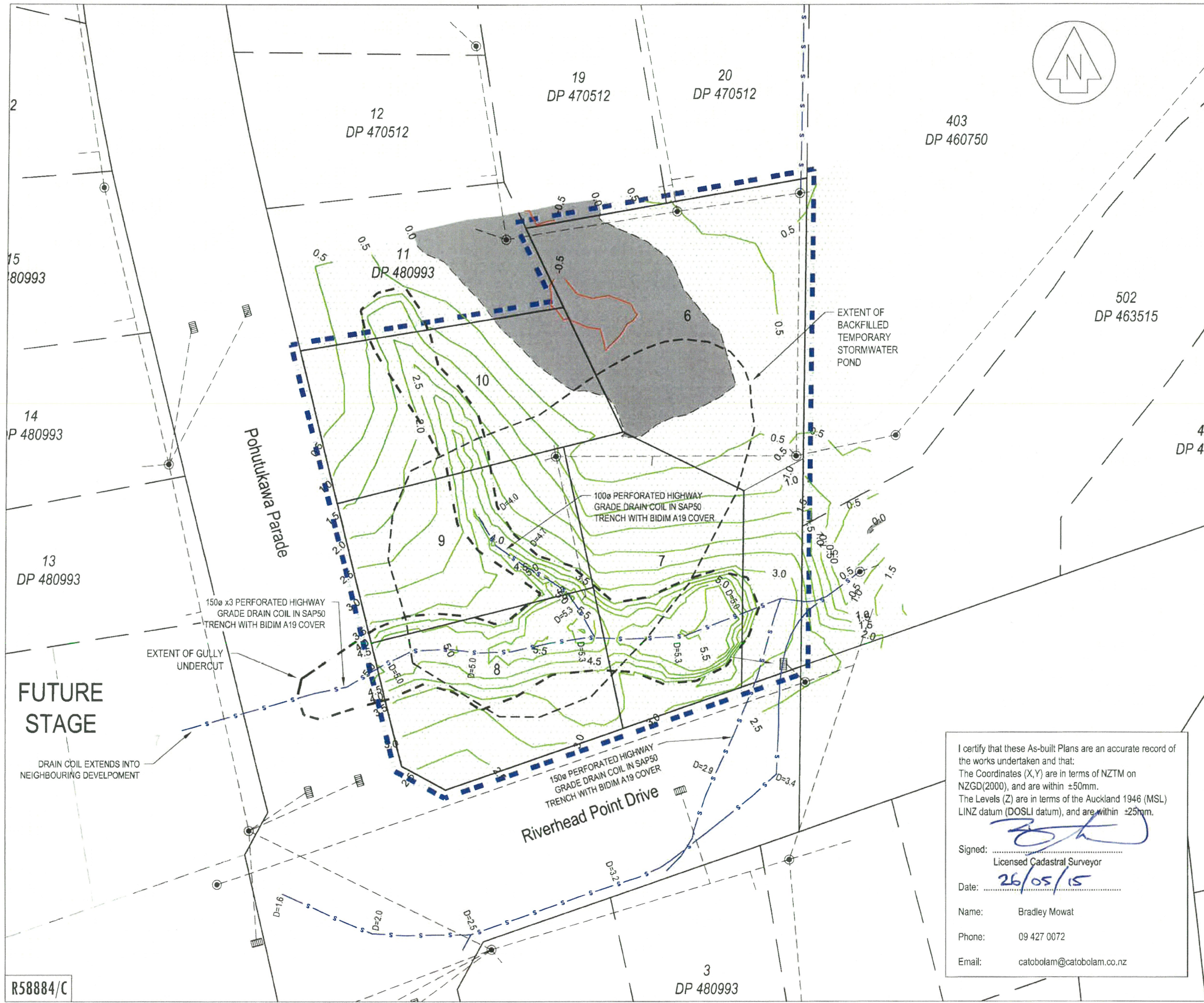
I certify that these As-built Plans are an accurate record of the works undertaken and that:
The Coordinates (X,Y) are in terms of NZTM on NZGD(2000), and are within ±50mm.
The Levels (Z) are in terms of the Auckland 1946 (MSL) LINZ datum (DOSLI datum), and are within ±25mm.

Signed: 
Licensed Cadastral Surveyor

Date: 26/05/15

Name: Bradley Mowat
Phone: 09 427 0072
Email: catobolam@catobolam.co.nz

R58884/C



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- NOTES**
- GENERAL**
1. Cut/fill contours are from original ground levels, including gully undercut, to finished ground levels as surveyed at 15/5/2015. 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 Contour
- Cut Contours & Area
- Fill Contours & Area
- Extent of undercut/silt pond
- Subsoil Drainage (D=Depth to Finished GL)
- Stormwater Pipe Network
- Extent of Stage J1B

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DRAWING TITLE

Stages J1B
Cut and Fill Contour Level
As Built Plan

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| ORIGINAL SCALE | 1:500 | ORIGINAL SIZE | A3 | REVISION NO | |
| DATE | 5/06/15 | CAD REFERENCE | 33100_6603.dwg | SHEET NO | E603 |
| DIRECTORY | J:\32558\Acad\ | | | JOB NO | 33100 |

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[Signature]

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 Licensed Cadastral Surveyor
 Date: 10/06/15
 Name: Bradley Mowat
 Phone: 09 427 0072
 Email: catobolam@catobolam.co.nz

Drainage Legend

- | | | | | | |
|----------------|----|--------------|----|-------|----|
| Existing | 50 | PWC Sewer | 50 | New | 50 |
| Flushing Point | F | Boundary Kit | ⊠ | Valve | ⊠ |

NOTES

GENERAL

- Levels are in terms of LINZ Datum 1946.
- Coordinates are in terms of NZTM.
- All infrastructure is public unless otherwise shown.
- All pipes are PE100 PN16, unless otherwise shown

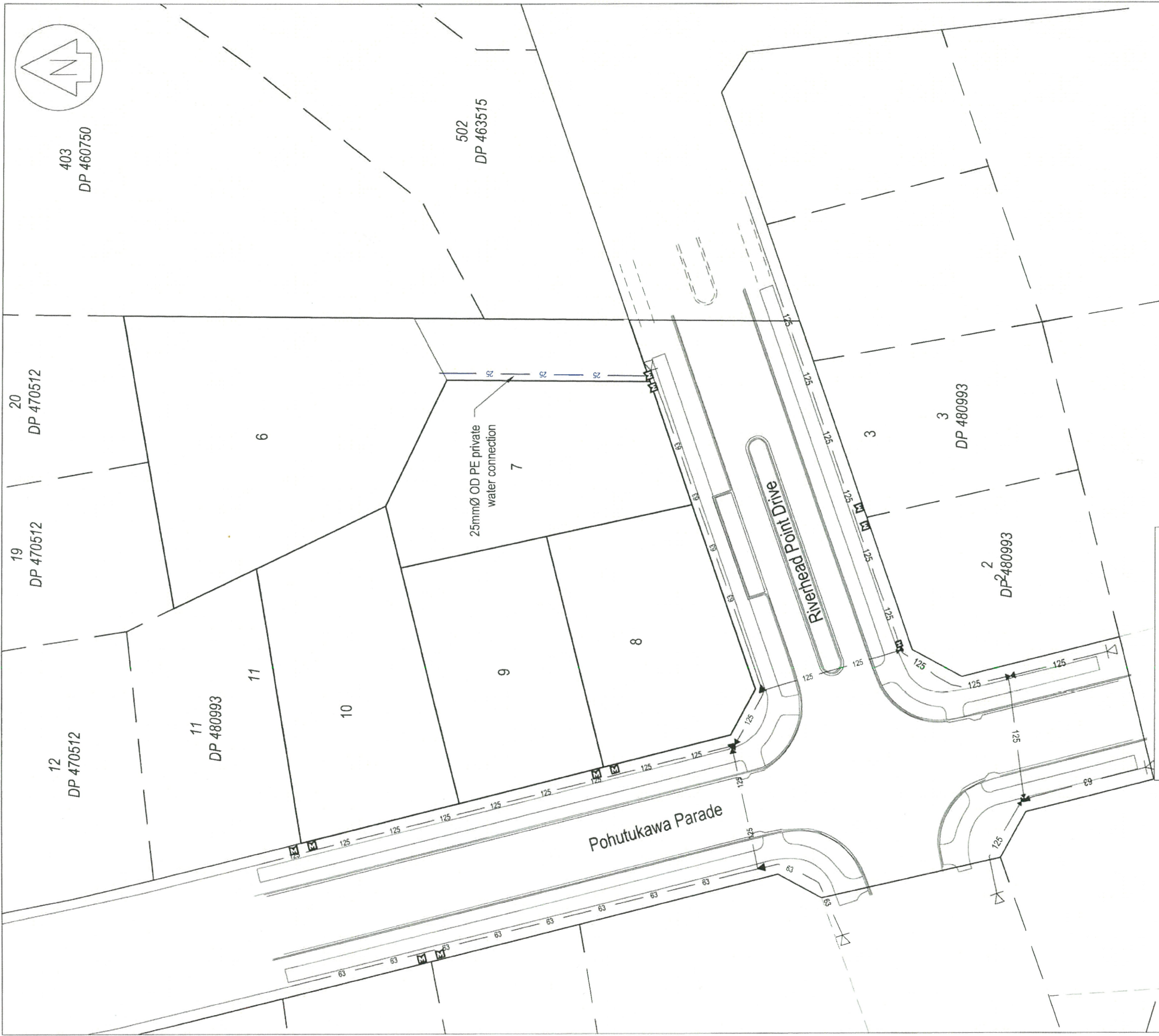
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DRAWING TITLE

Stage J1B
PWC Sewer As Built



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NOTES

GENERAL

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- Coordinates are in terms of NZTM.

WATER RETICULATION

- Cover for water reticulation.
 - Mains under grass berms and footpaths 600mm
 - Mains under road cartage way 1.2m
- Watermain 125 OD - PE100 PN12.5 SDR11
- All risermains 63OD - PE100 PN12.5 SDR11
- Stainless Steel bolts and nuts used for flanged connectors.
- Metallic Detector Tape provided above all watermains and risermains

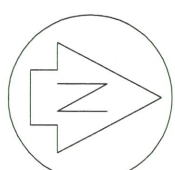
Water Reticulation Legend

| | |
|--|--------|
| New Watermain (Ø) | — 25 — |
| Existing Watermain (Ø) | — 63 — |
| Existing Fire Hydrant | ⊕ |
| Existing Sluice Valve | ⊗ |
| Existing Peet Valve | ▲ |
| Existing Blank Cap | ▽ |
| Proposed Water Meter Location (Tapping Band Installed) | Ⓜ |

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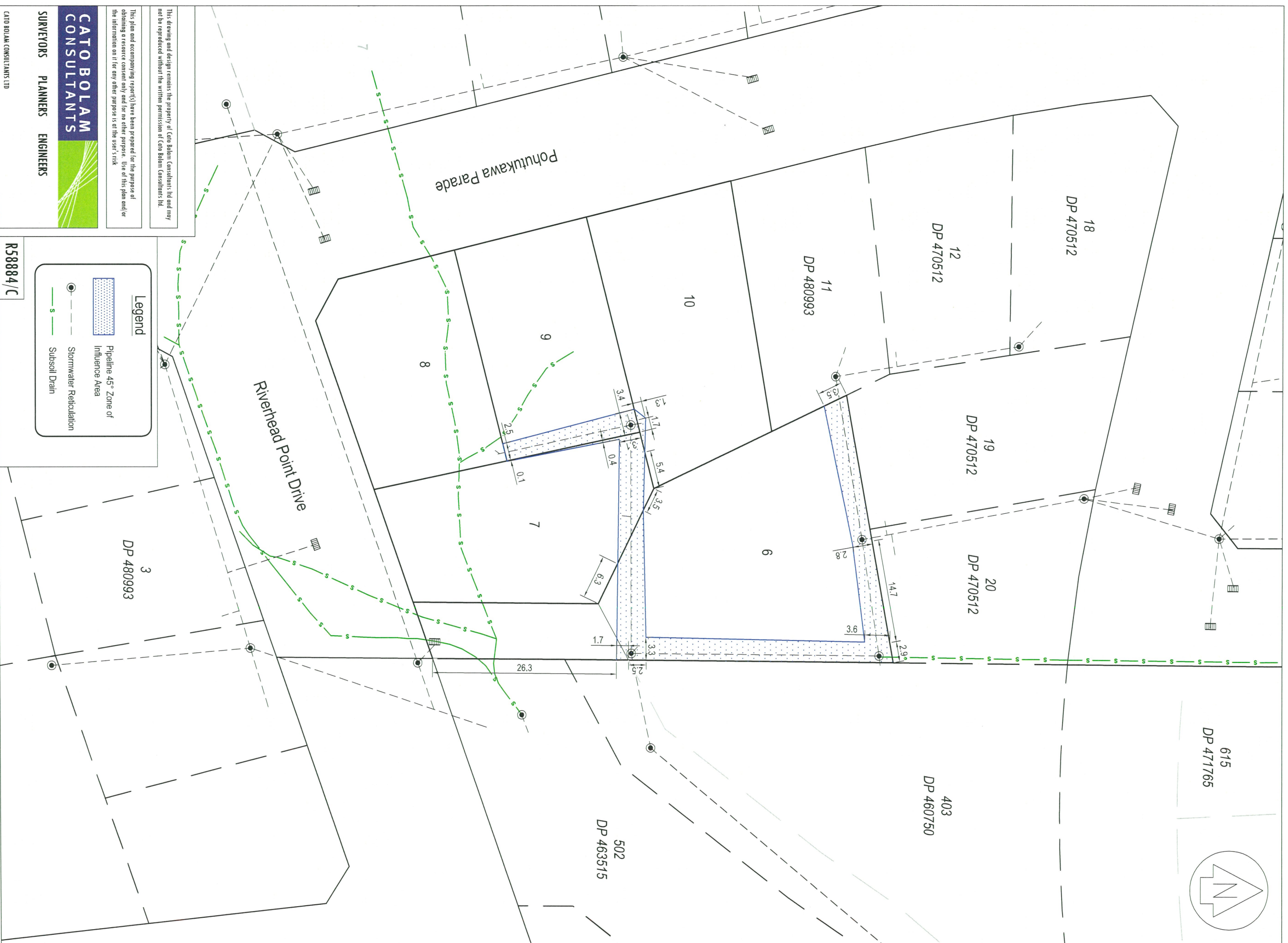
DRAWING TITLE
 Stage J1B
 Water Reticulation As Built



615
DP 471765

403
DP 460750

502
DP 463515



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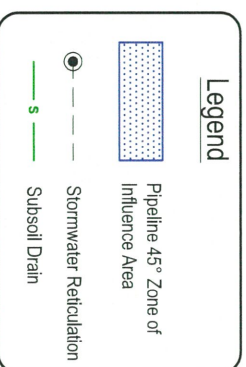
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| DATE | CAD REFERENCE | SHEET NO |
| 09/06/15 | 33100 E605.dwg | E605 |
| DIRECTORY | | JOB NO |
| Z:\33100\KAD | | 33100 |

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| DESIGNED | BH | 09-14 |
| DRAWN | BH | 06-15 |
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DRAWING TITLE

Stages J1B
Stormwater Pipeline
Zone of Influence Plan