



WorleyParsons

resources & energy

EcoNomics™

QR NATIONAL
HEXHAM TRAIN SUPPORT FACILITY
SERVICES INVESTIGATION REPORT

Appendix B - Dial before you dig Plans

Hunter Water

Jemena

Telstra

Optus

Nextgen

Ausgrid

RMS



HUNTER WATER CORPORATION

A.B.N. 46 228 513 446

DIAL BEFORE YOU DIG

SERVICES PLAN

Enquiries: 1300 657657

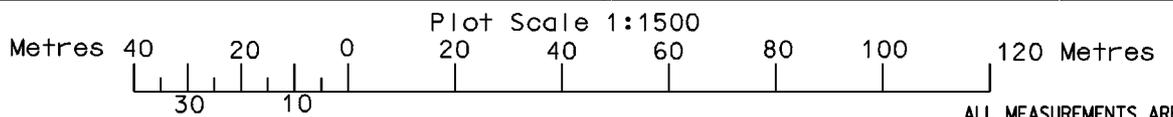
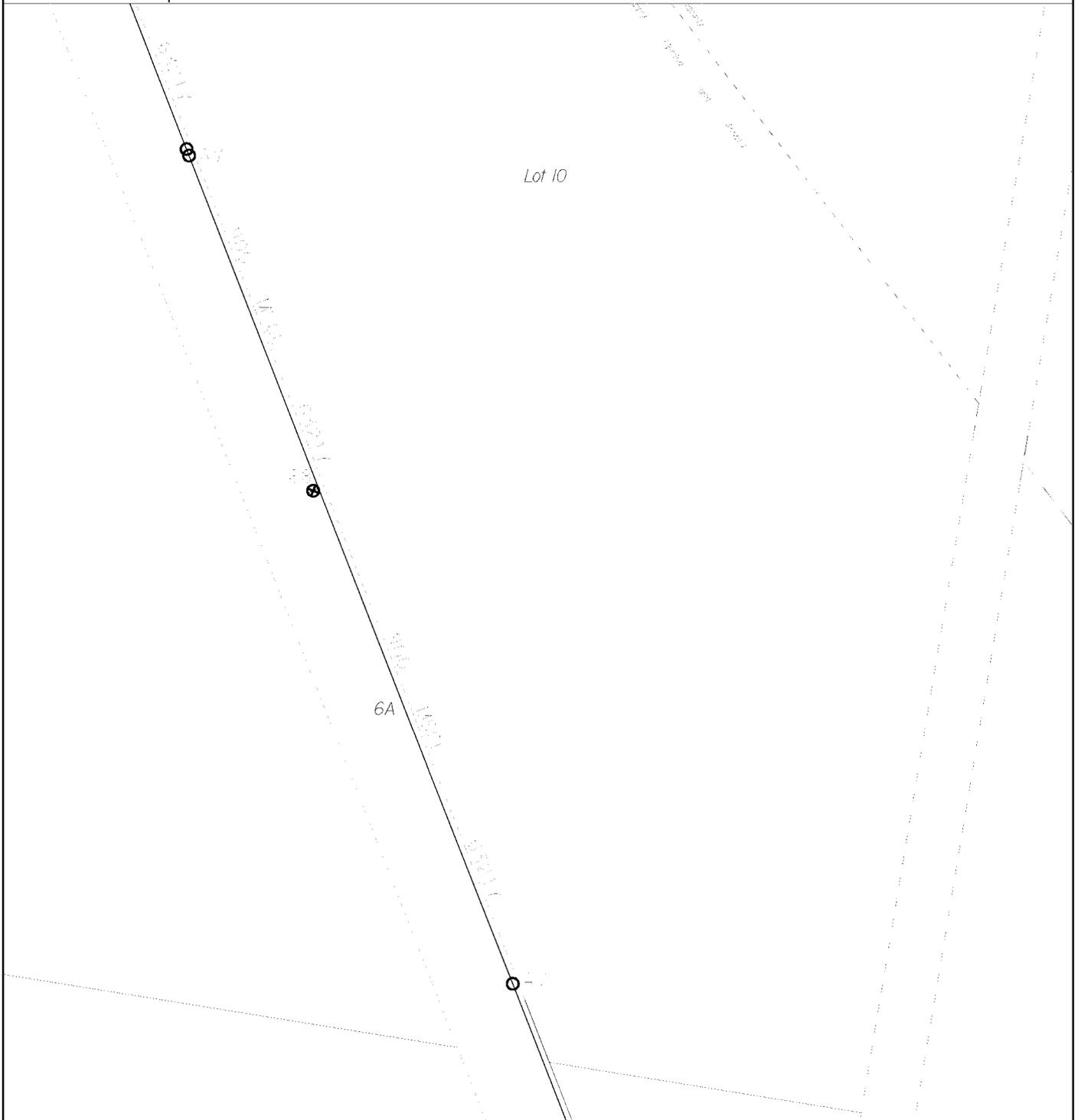
SEQUENCE NO.: 25121503

NOTIFICATION NO.: 5470523

APPLICANT : MR CONOR DOHERTY

DATE : 17-MAY-2012

UBD MAP REF : UBDNEW97D3



IMPORTANT

SERVICE LOCATIONS ARE APPROXIMATE.
HAND DIG UNTIL ACTUAL LOCATIONS ARE IDENTIFIED.
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- (C) SEWER/WATER UTILITY DATA
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- (C) CADASTRAL/CONTOUR DATA
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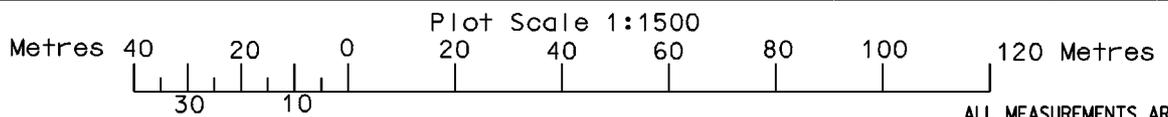
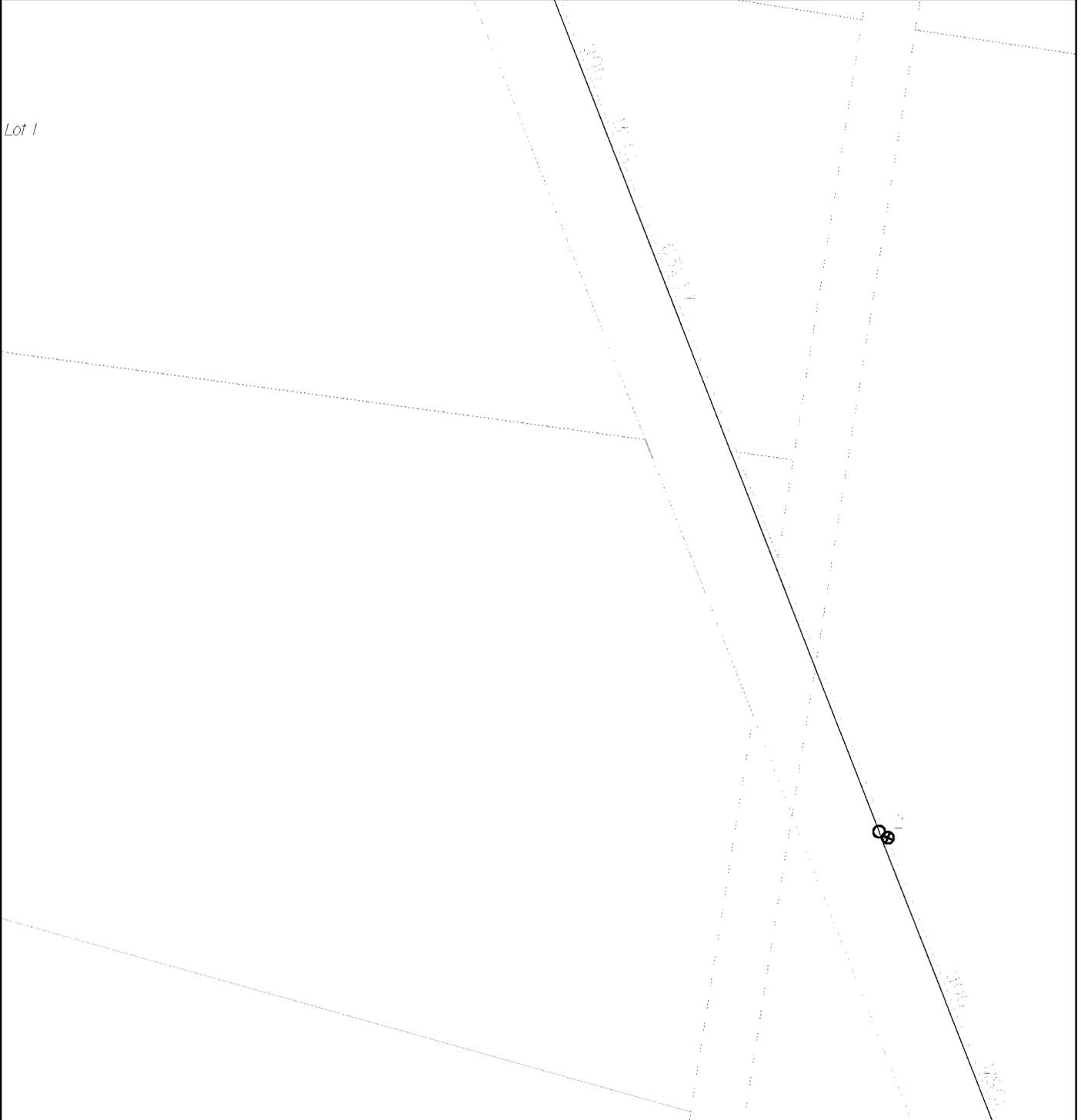
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NOTIFICATION NO.: 5470523

APPLICANT : MR CONOR DOHERTY

DATE : 17-MAY-2012

UBD MAP REF : UBDNEW97D4



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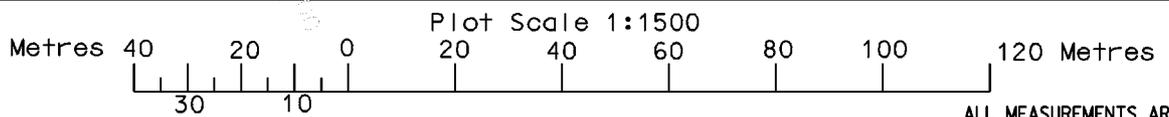
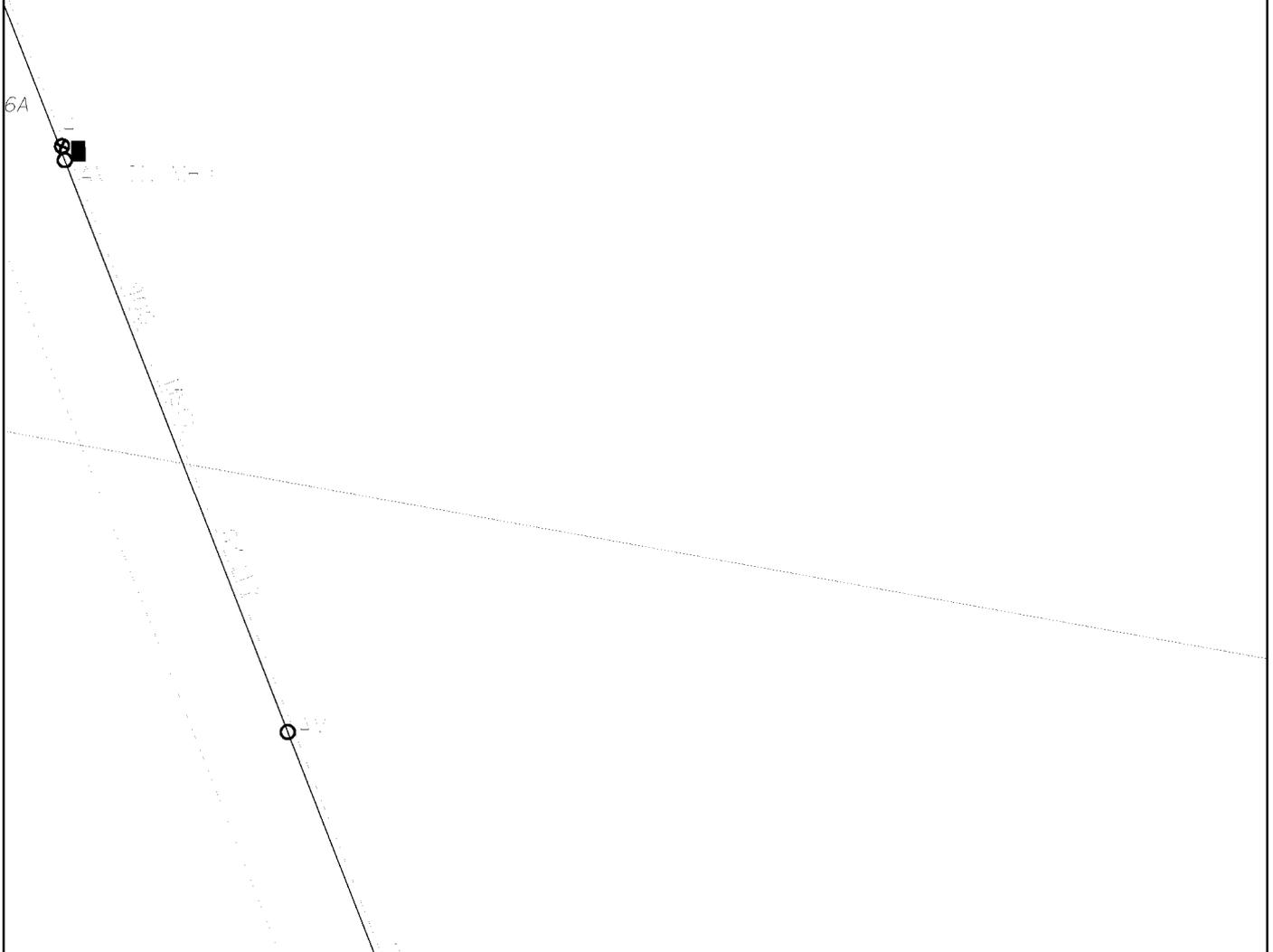
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NOTIFICATION NO.: 5470523

APPLICANT : MR CONOR DOHERTY

DATE : 17-MAY-2012

UBD MAP REF : UBDNEW97E5



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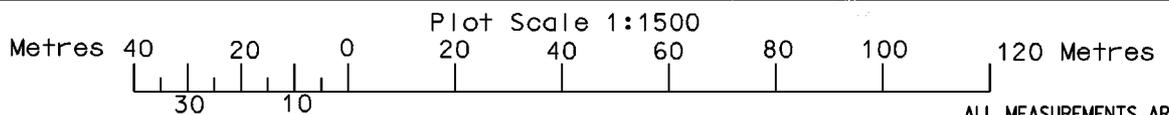
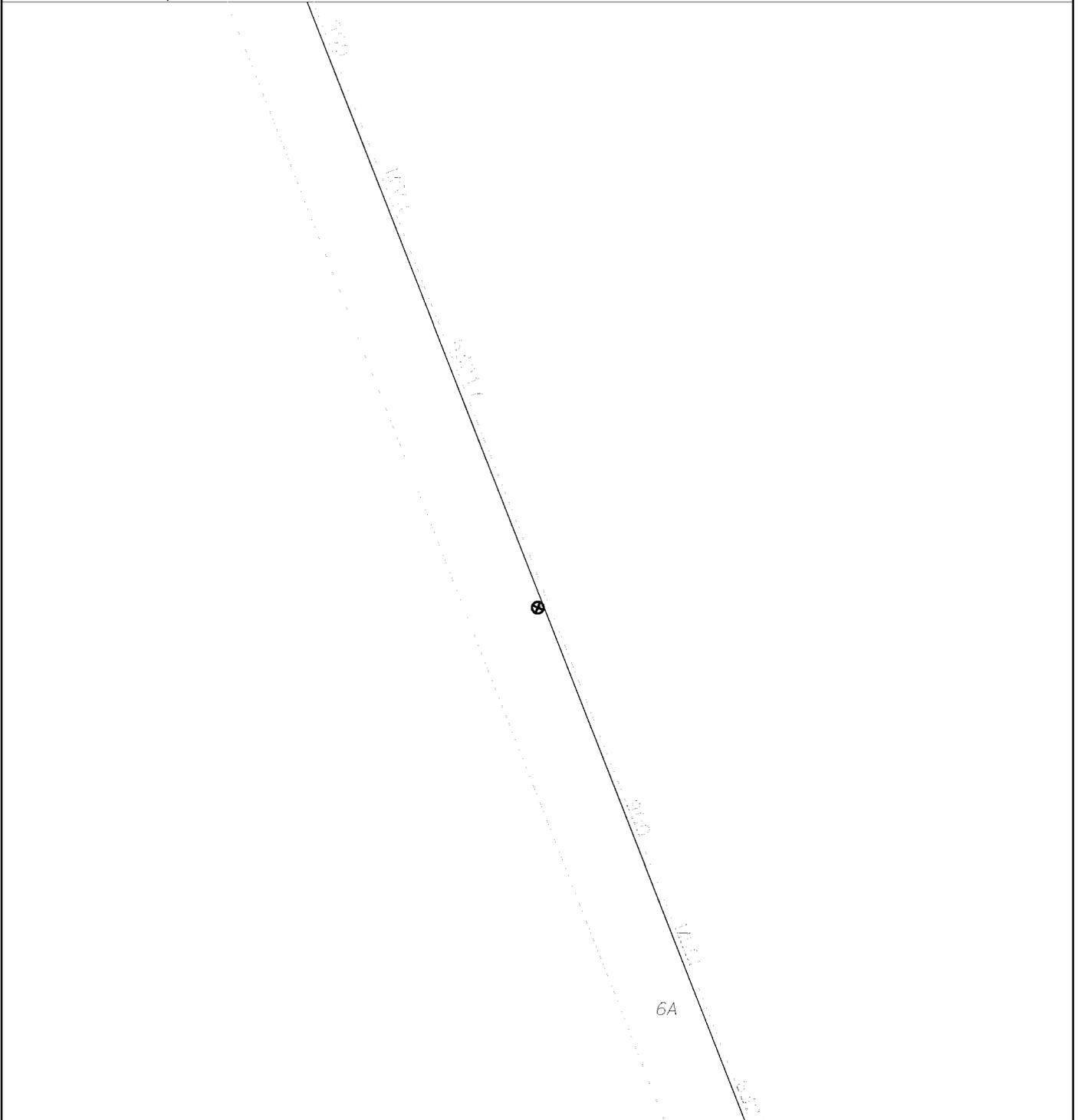
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NOTIFICATION NO.: 5470523

APPLICANT : MR CONOR DOHERTY

DATE : 17-MAY-2012

UBD MAP REF : UBDNEW97E6



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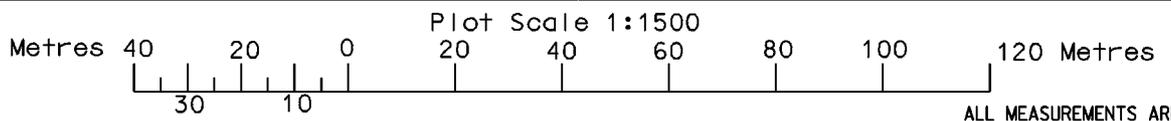
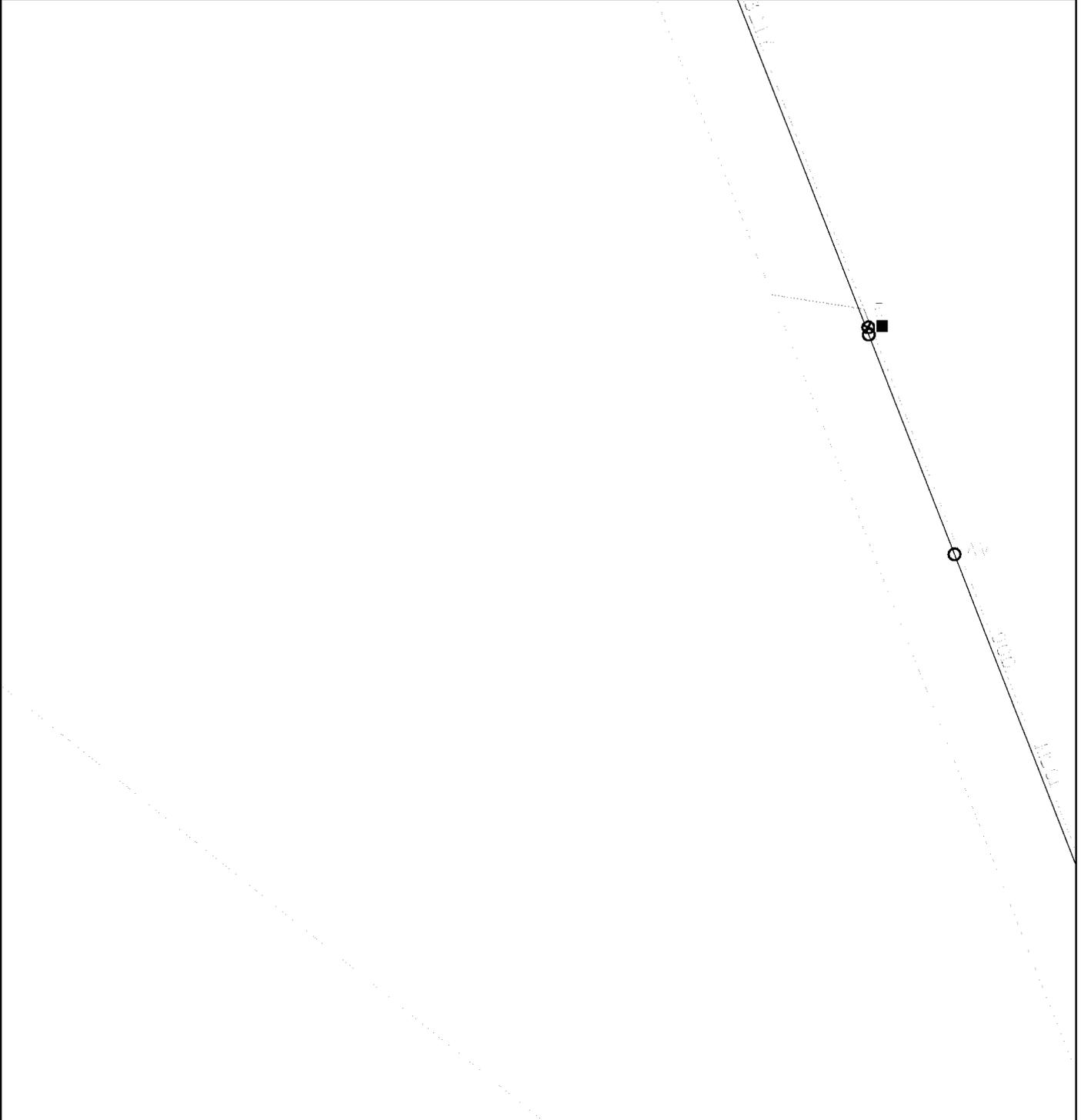
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NOTIFICATION NO.: 5470523

APPLICANT : MR CONOR DOHERTY

DATE : 17-MAY-2012

UBD MAP REF : UBDNEW97E7



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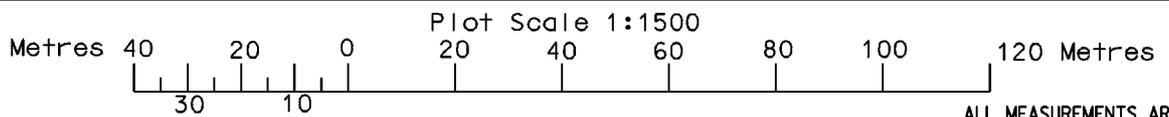
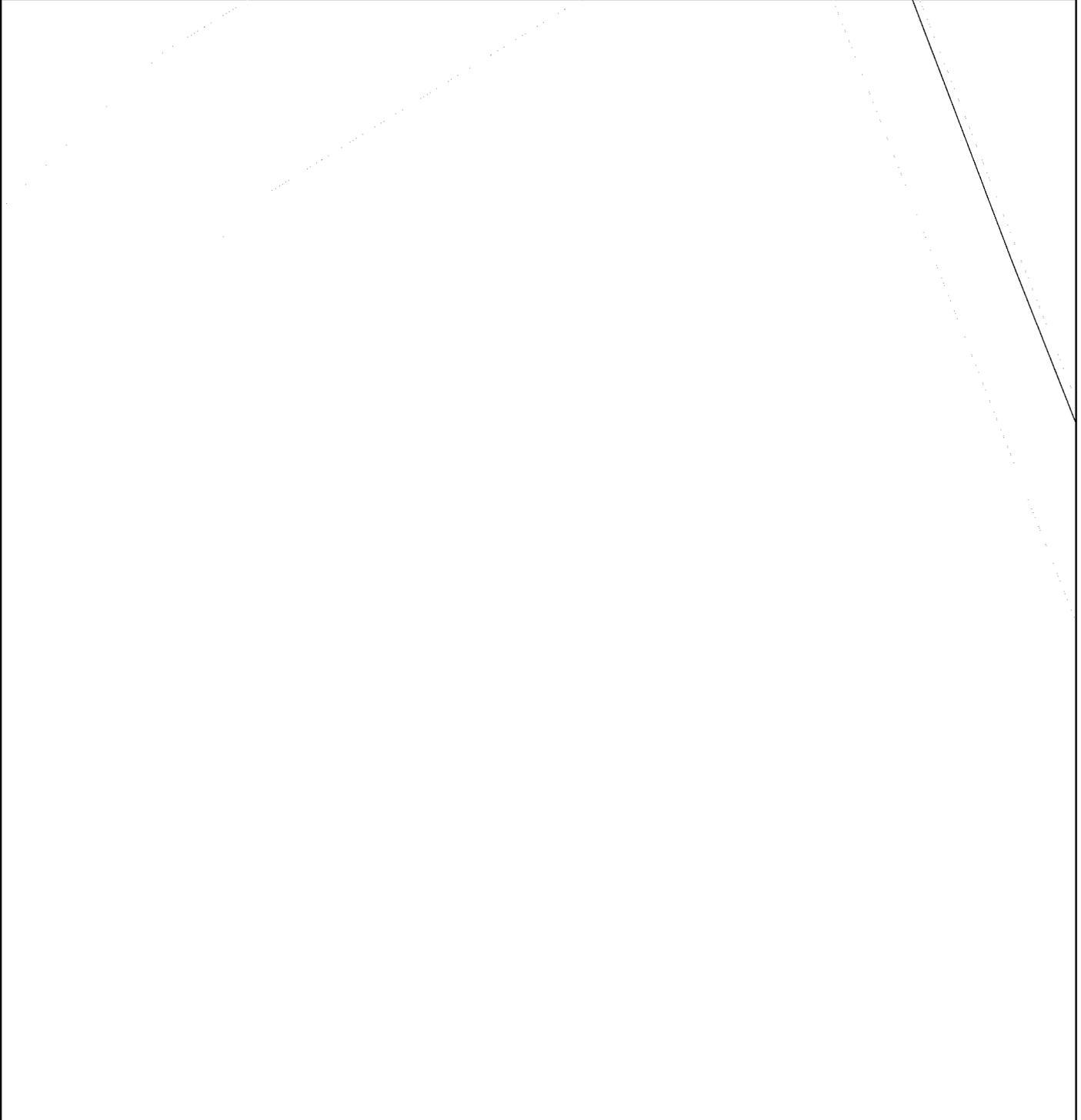
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NOTIFICATION NO.: 5470523

APPLICANT : MR CONOR DOHERTY

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UBD MAP REF : UBDNEW97F10



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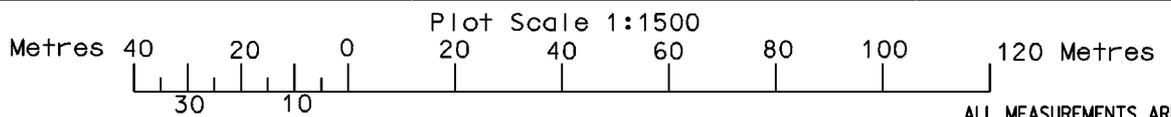
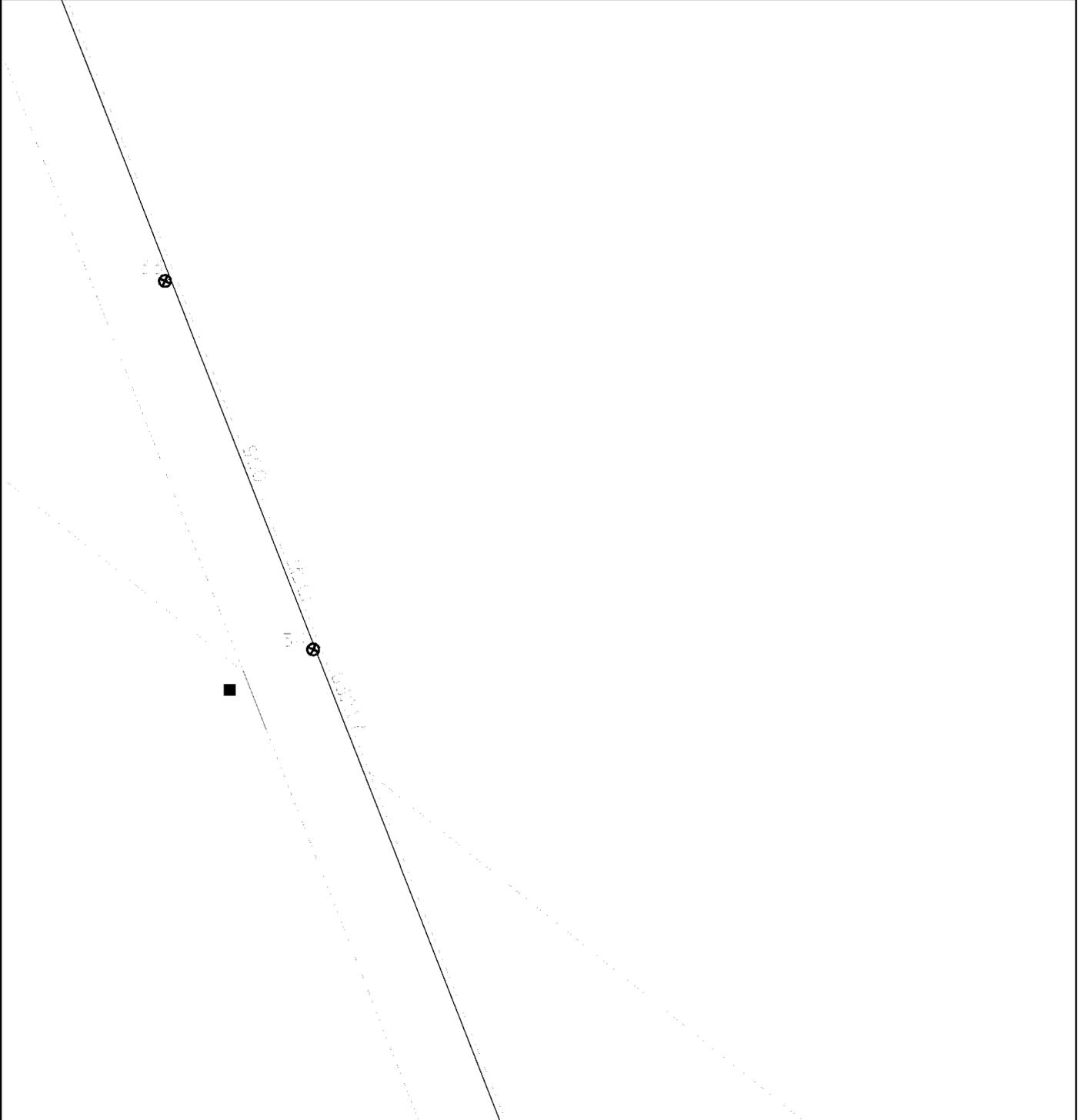
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NOTIFICATION NO.: 5470523

APPLICANT : MR CONOR DOHERTY

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UBD MAP REF : UBDNEW97F8



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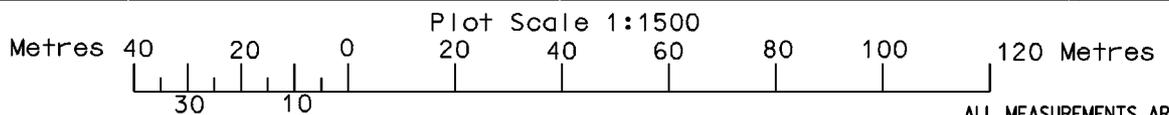
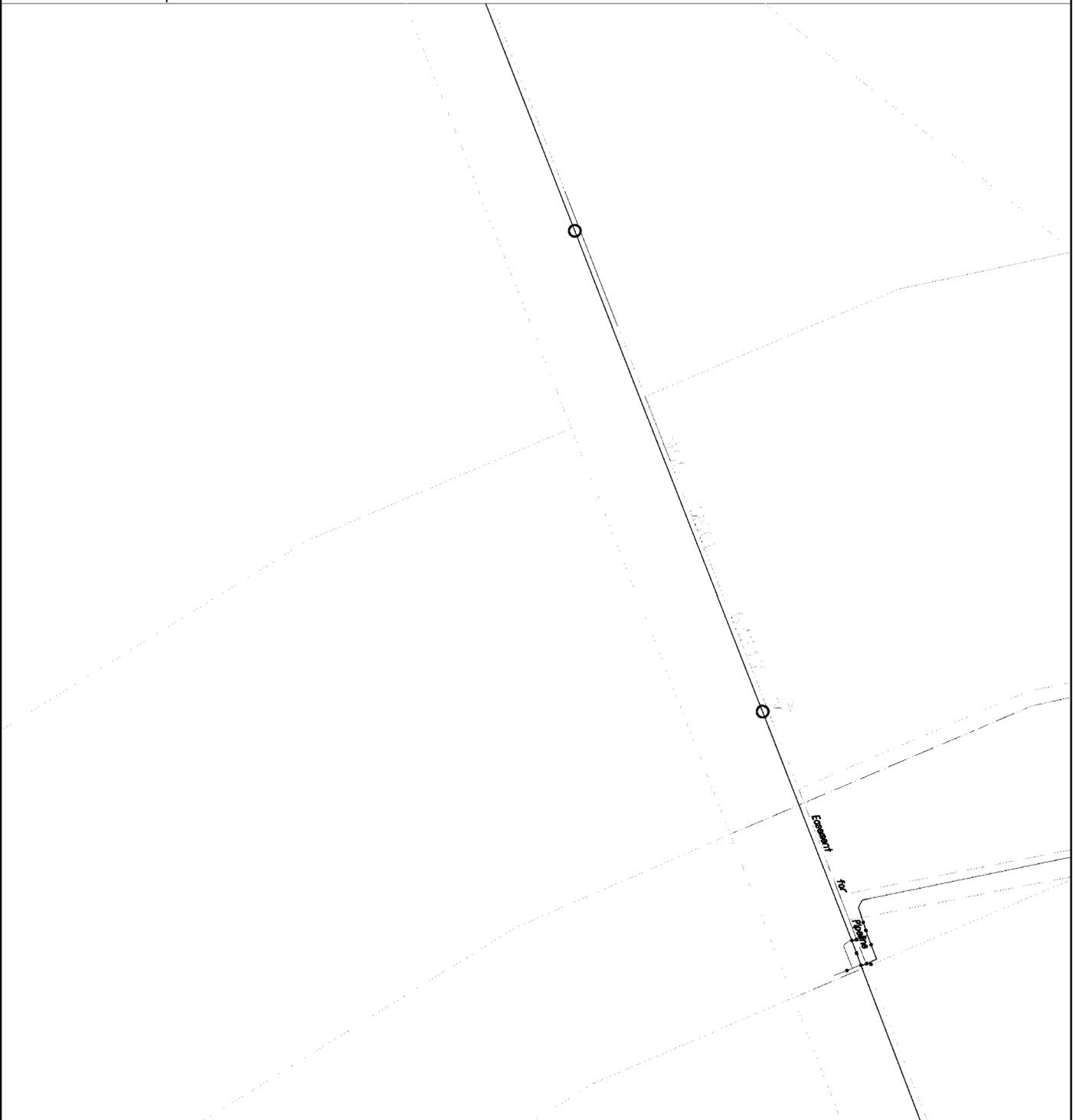
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APPLICANT : MR CONOR DOHERTY

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UBD MAP REF : UBDNEW97F9



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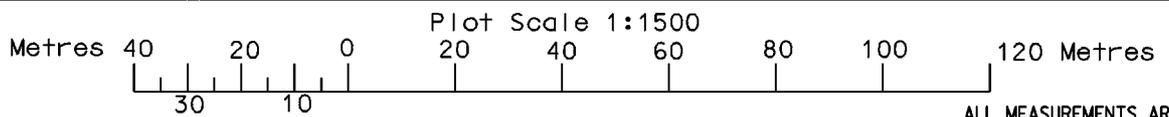
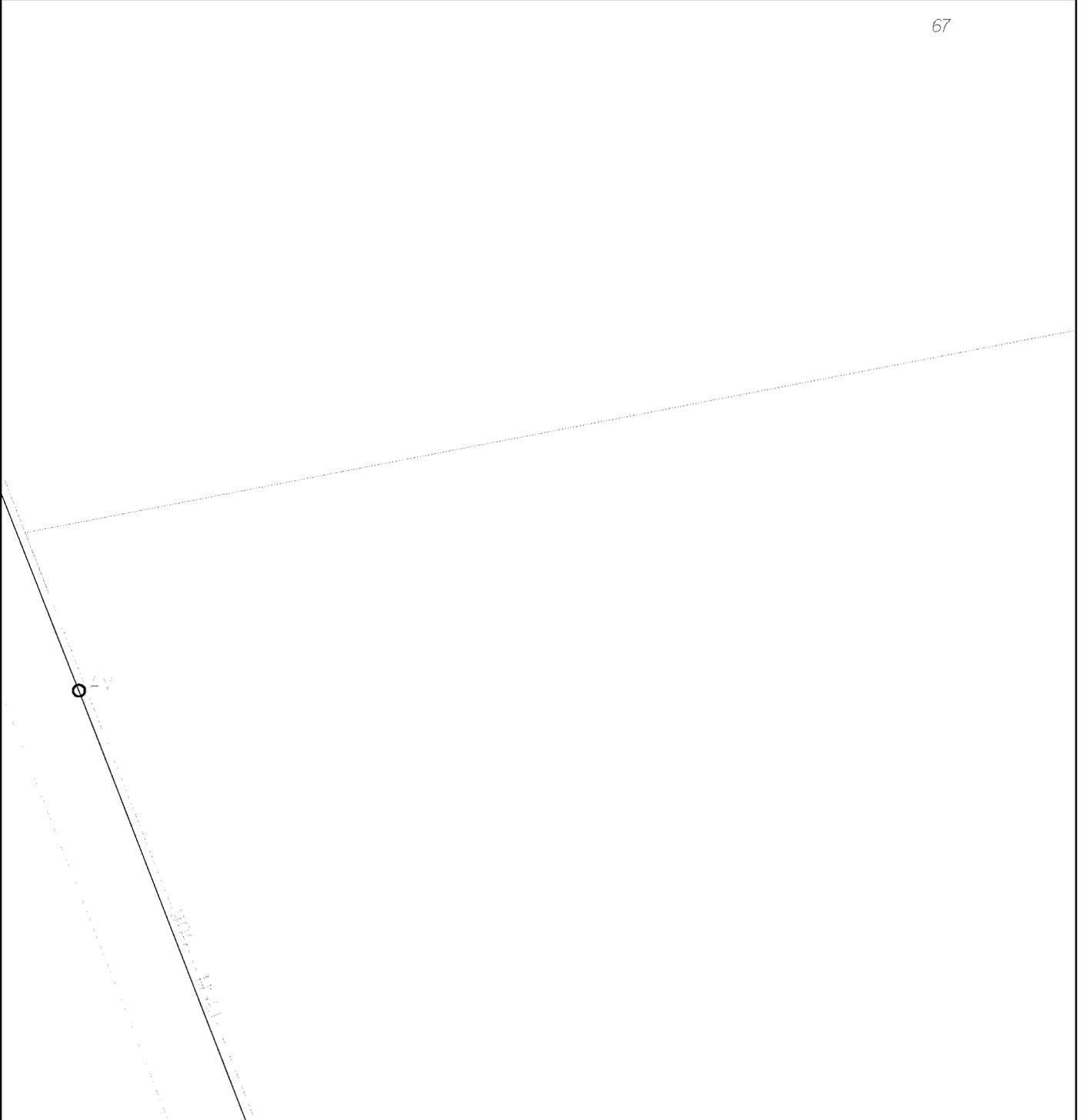
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APPLICANT : MR CONOR DOHERTY

DATE : 17-MAY-2012

UBD MAP REF : UBDNEW97G10

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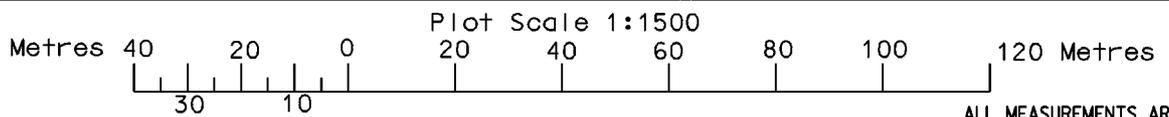
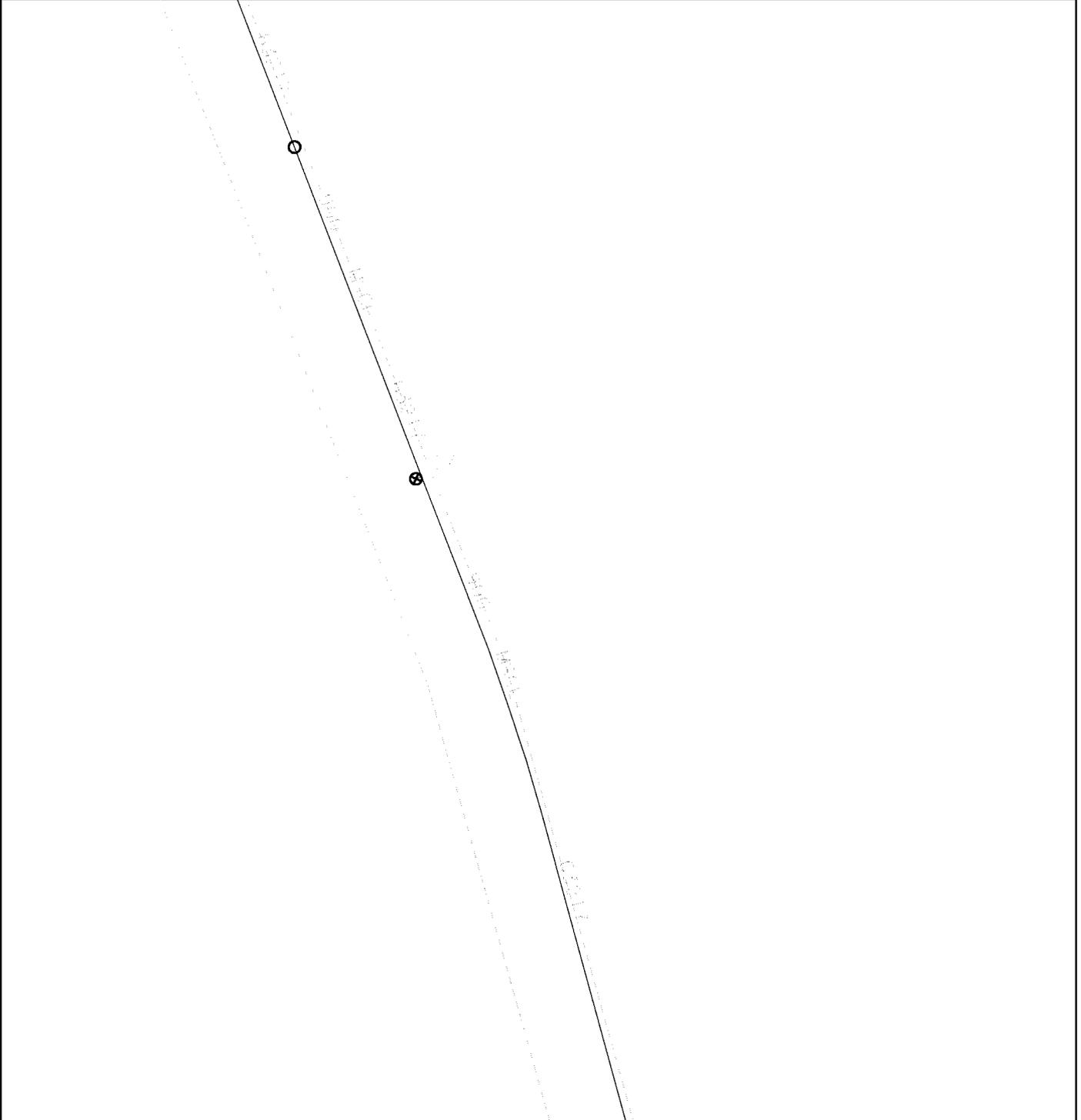
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APPLICANT : MR CONOR DOHERTY

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UBD MAP REF : UBDNEW97G11



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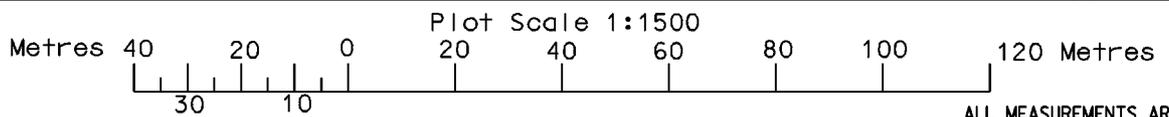
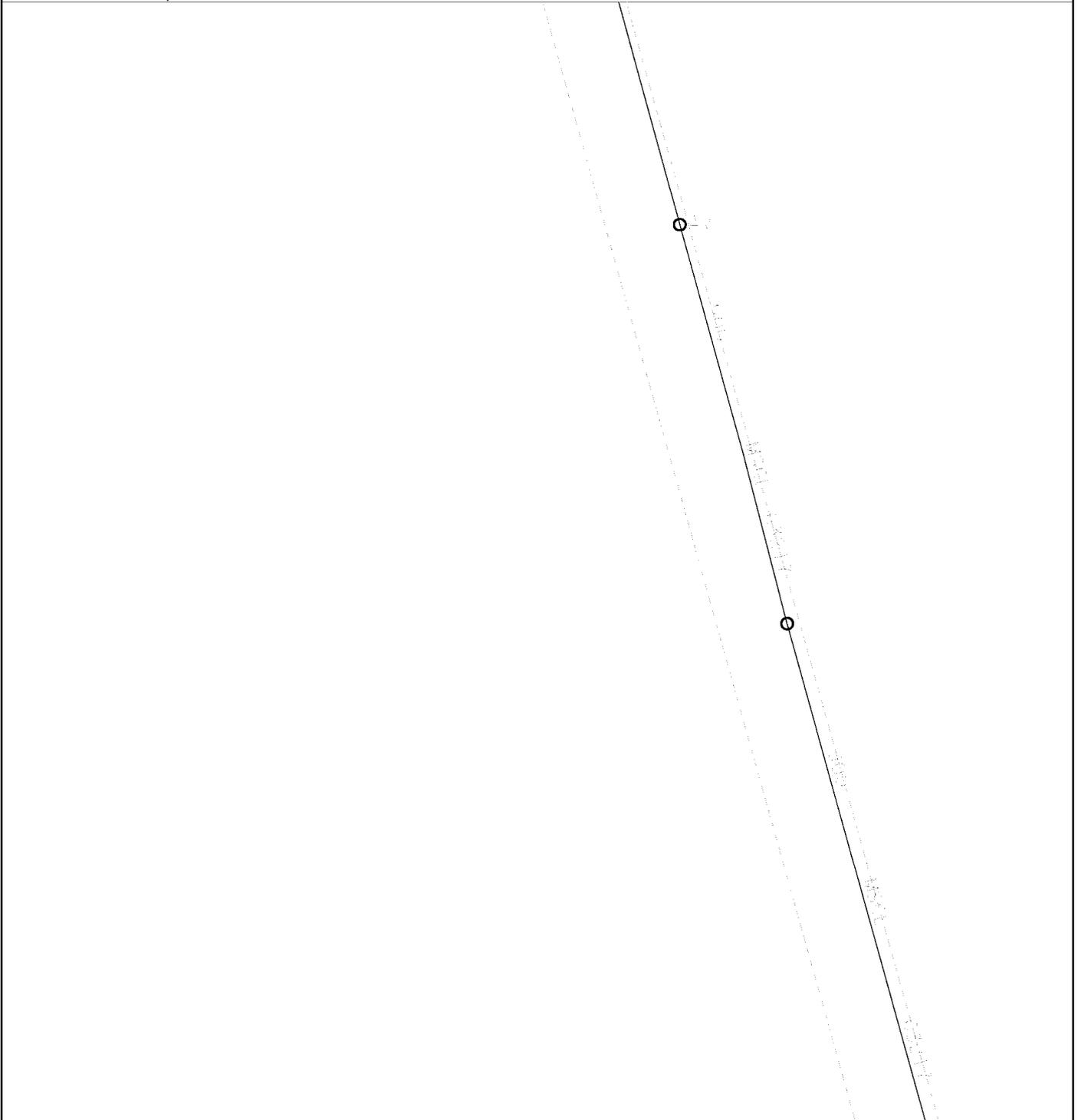
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NOTIFICATION NO.: 5470523

APPLICANT : MR CONOR DOHERTY

DATE : 17-MAY-2012

UBD MAP REF : UBDNEW97G12



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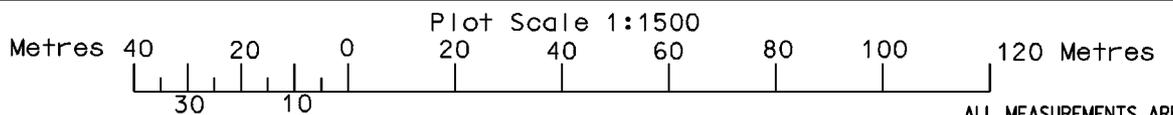
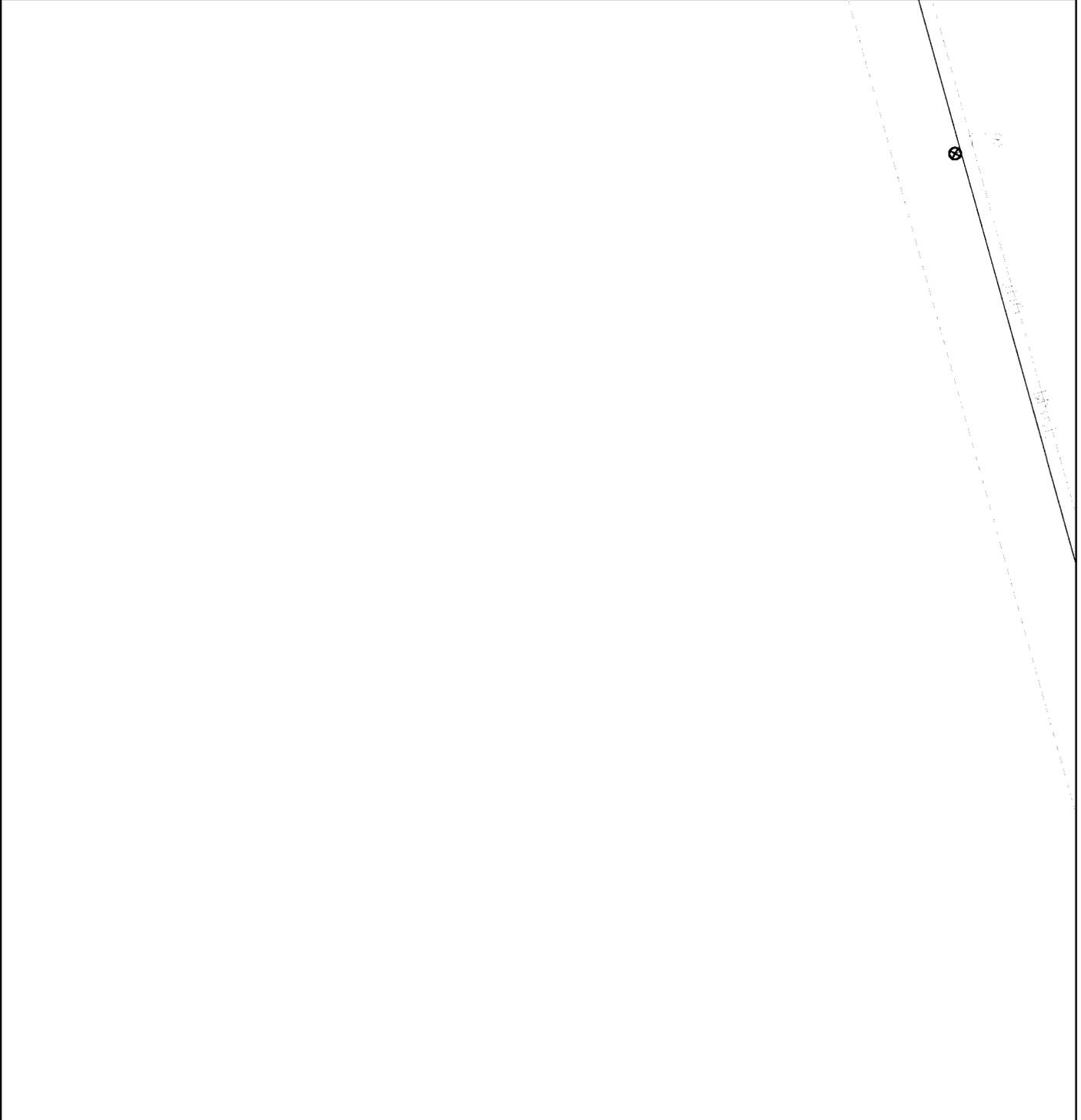
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NOTIFICATION NO.: 5470523

APPLICANT : MR CONOR DOHERTY

DATE : 17-MAY-2012

UBD MAP REF : UBDNEW97G13



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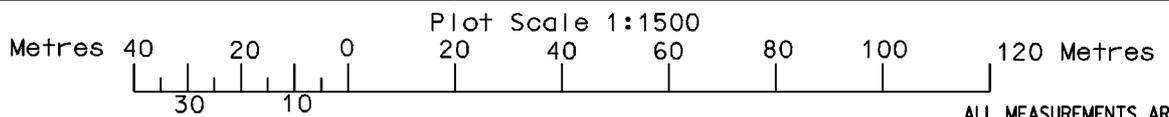
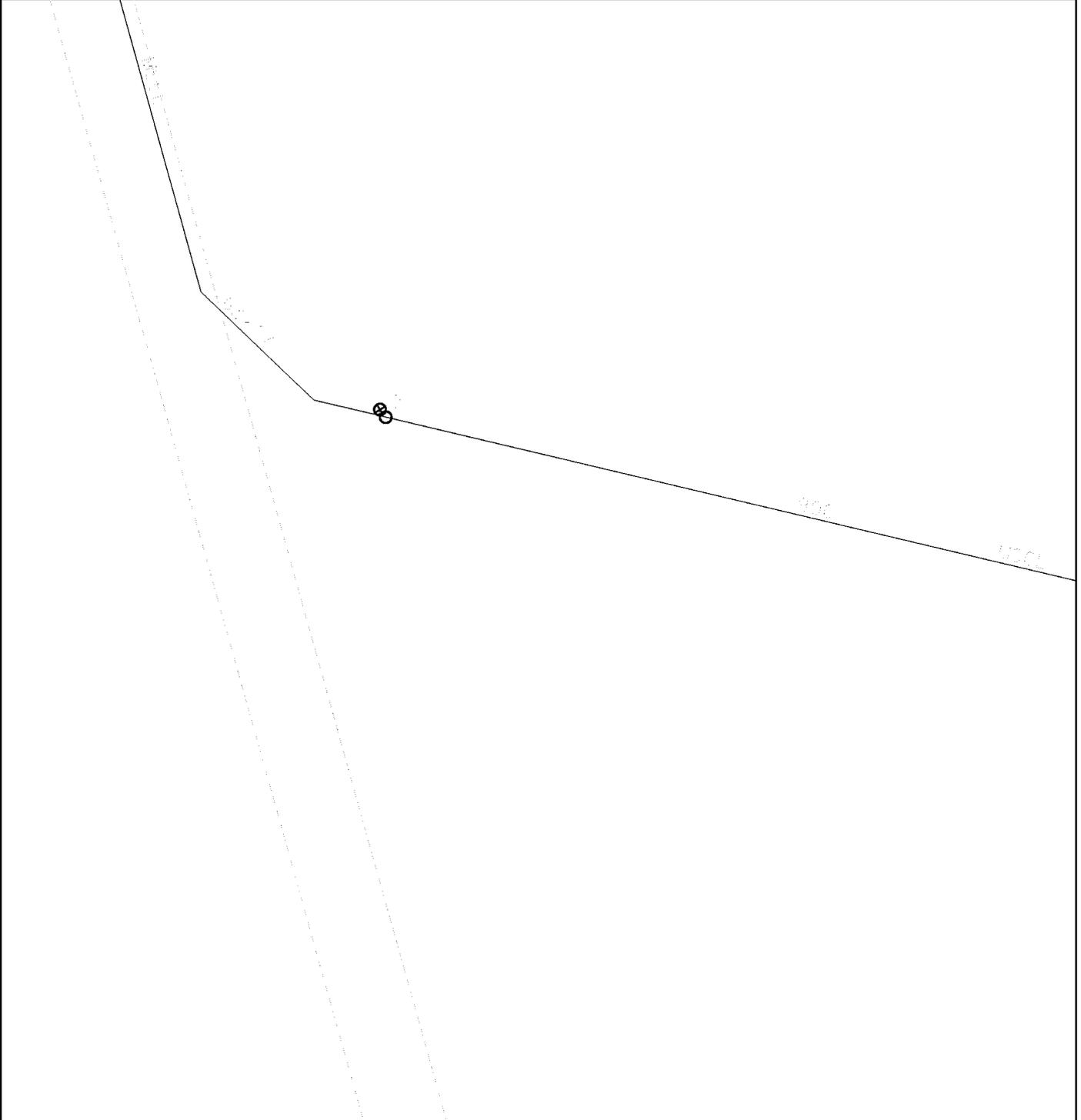
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NOTIFICATION NO.: 5470523

APPLICANT : MR CONOR DOHERTY

DATE : 17-MAY-2012

UBD MAP REF : UBDNEW97H14



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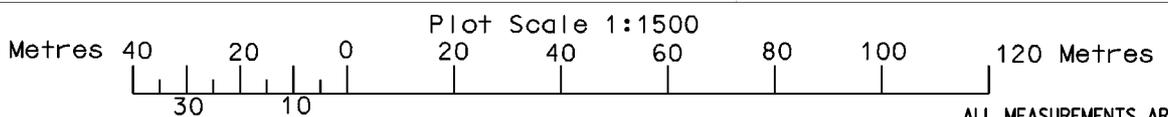
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NOTIFICATION NO.: 5470523

APPLICANT : MR CONOR DOHERTY

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UBD MAP REF : UBDNEW97H15



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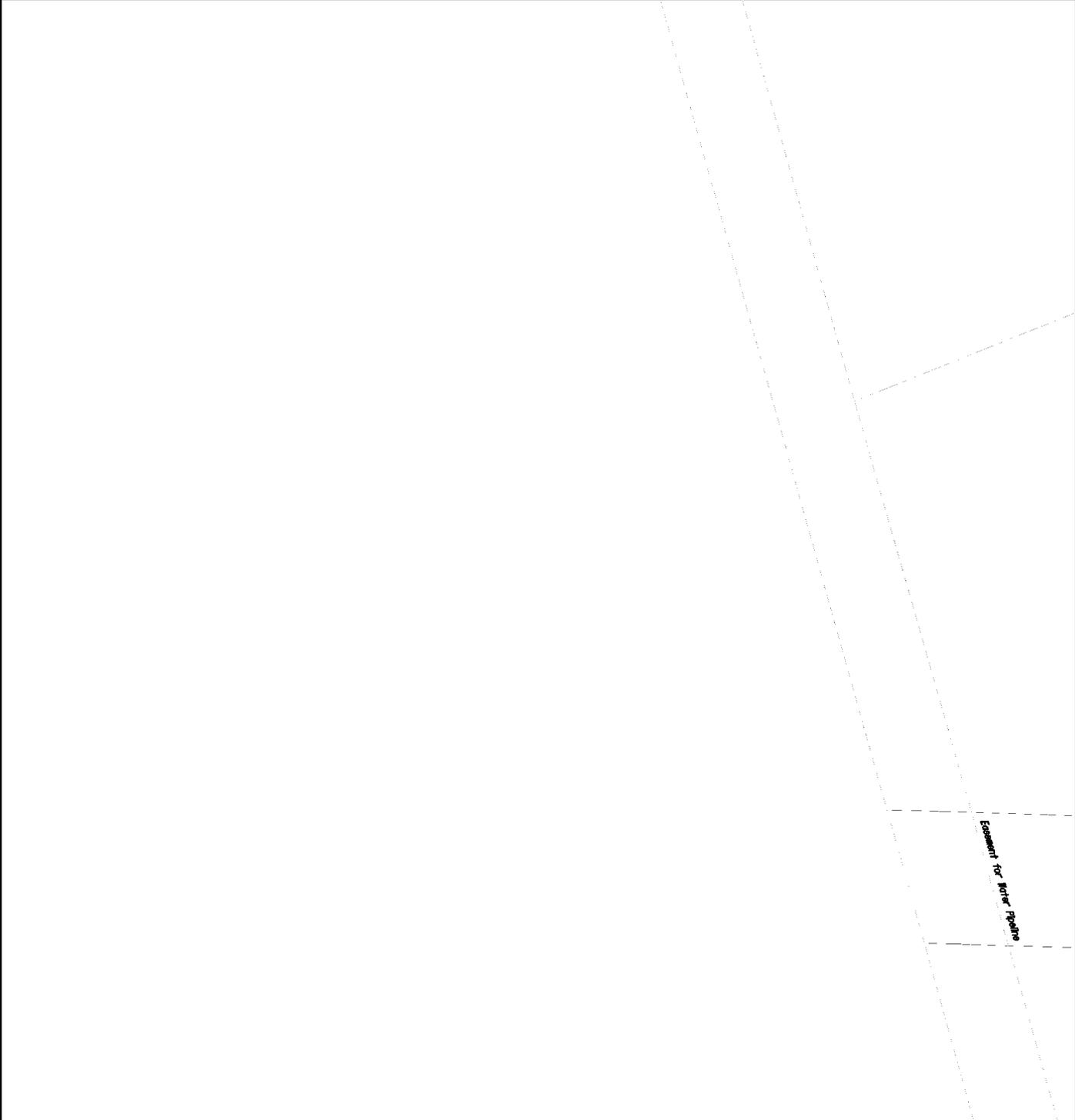
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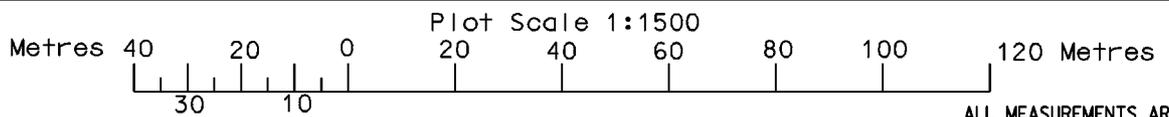
APPLICANT : MR CONOR DOHERTY

DATE : 17-MAY-2012

UBD MAP REF : UBDNEW97H16



Encasement for Water Pipeline



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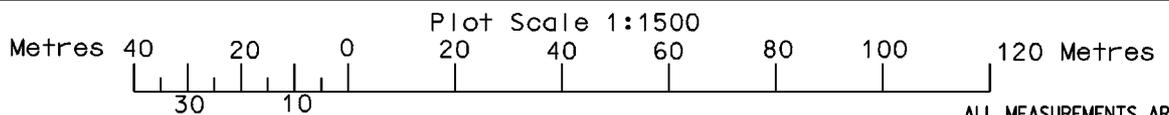
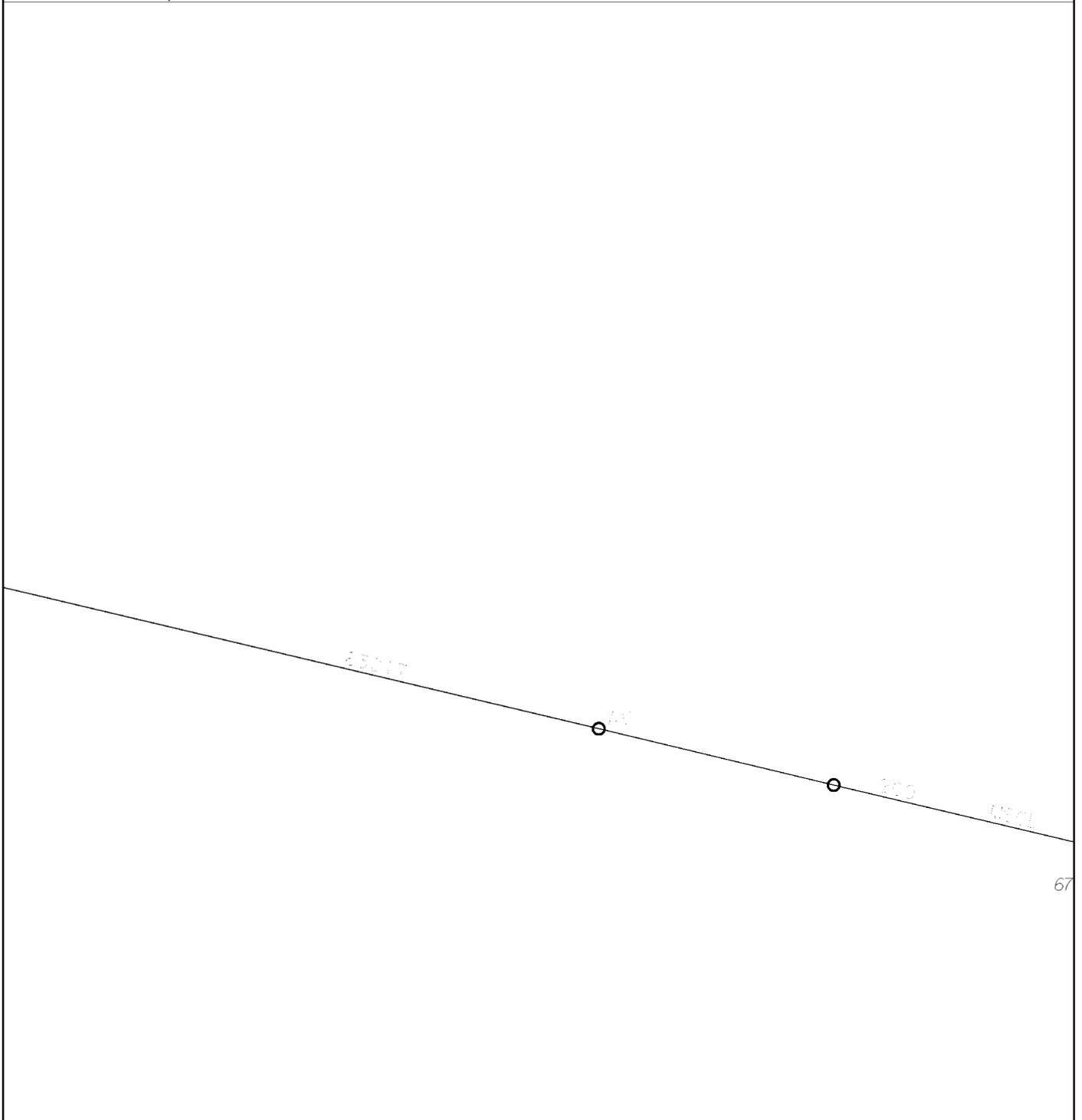
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NOTIFICATION NO.: 5470523

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DATE : 17-MAY-2012

UBD MAP REF : UBDNEW97J14



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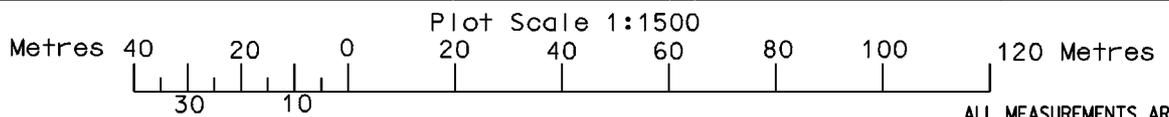
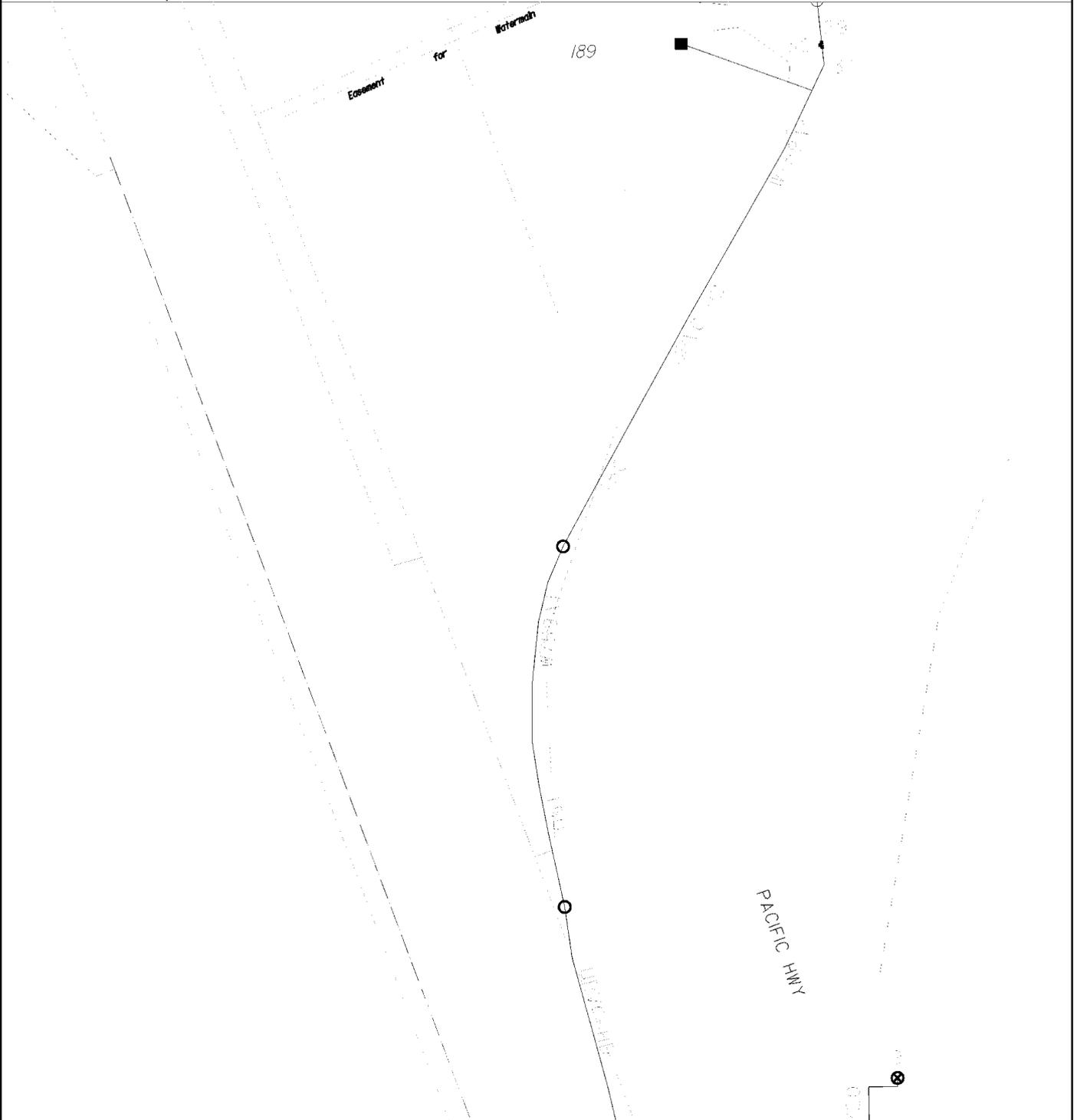
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NOTIFICATION NO.: 5470523

APPLICANT : MR CONOR DOHERTY

DATE : 17-MAY-2012

UBD MAP REF : UBDNEW97J8



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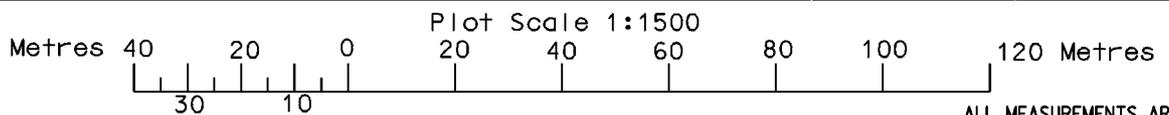
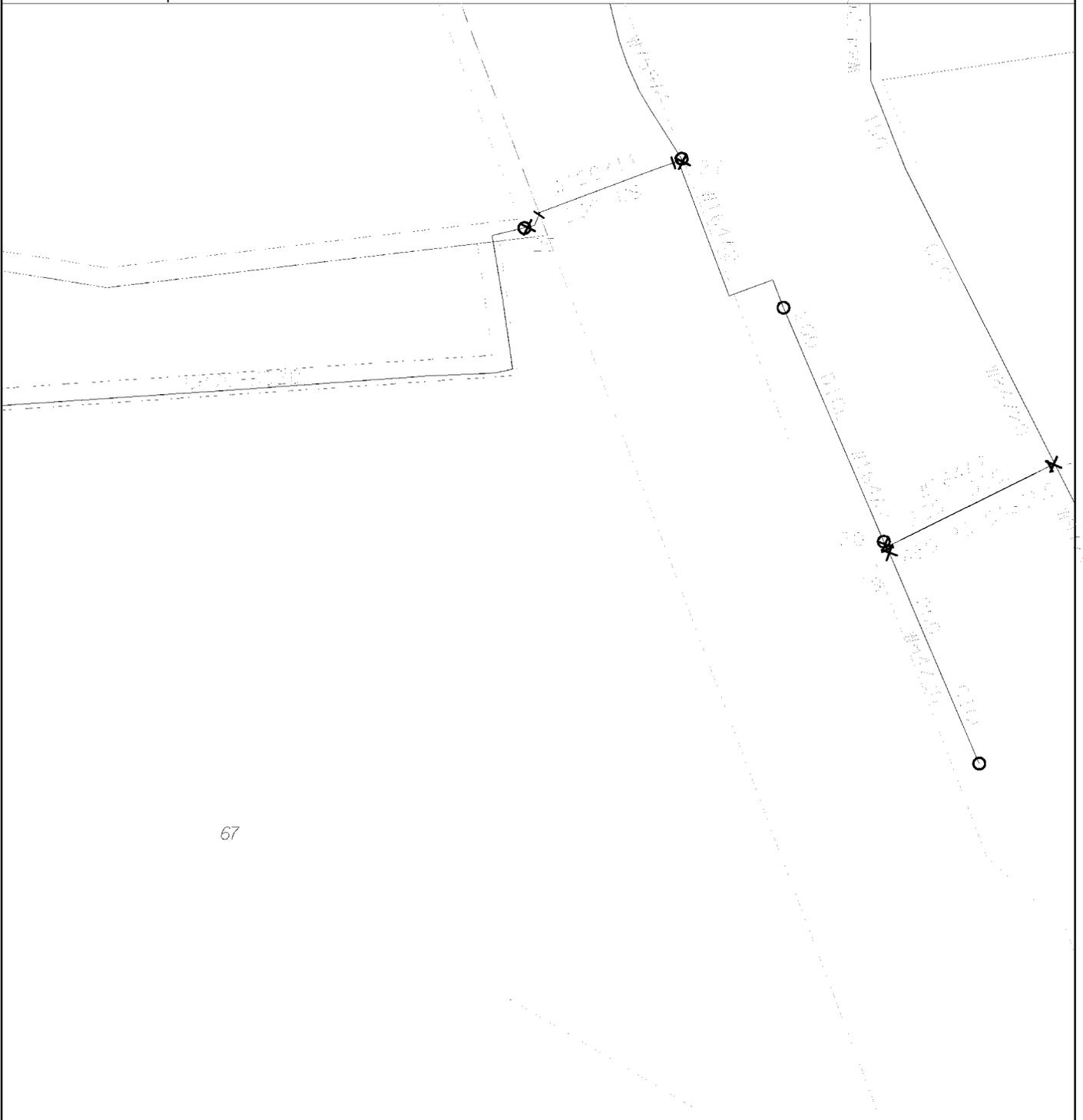
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NOTIFICATION NO.: 5470523

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UBD MAP REF : UBDNEW97J9



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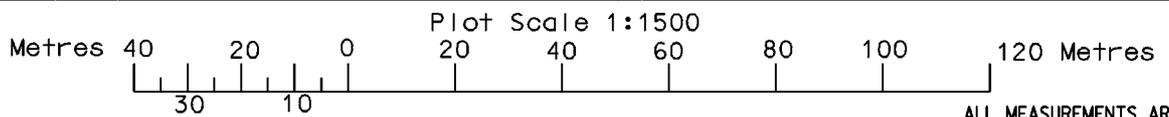
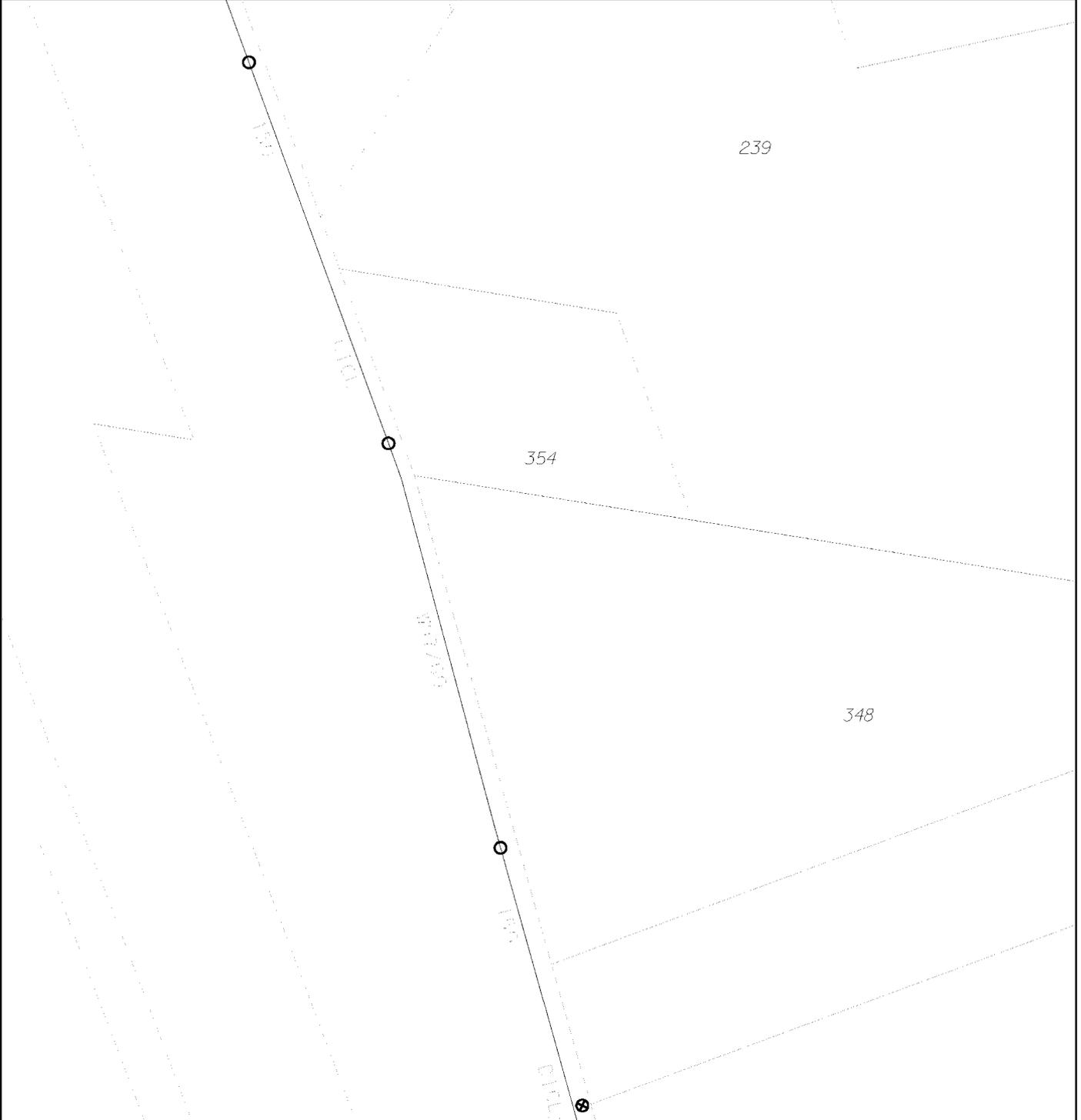
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HUNTER WATER CORPORATION

A.B.N. 46 228 513 446

DIAL BEFORE YOU DIG

SERVICES PLAN

Enquiries: 1300 657657

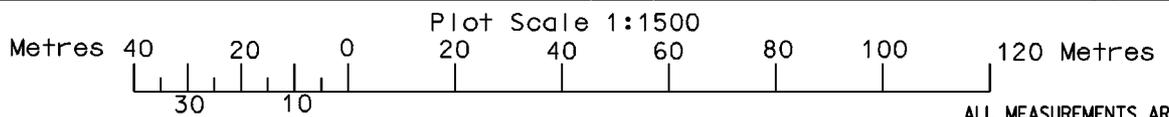
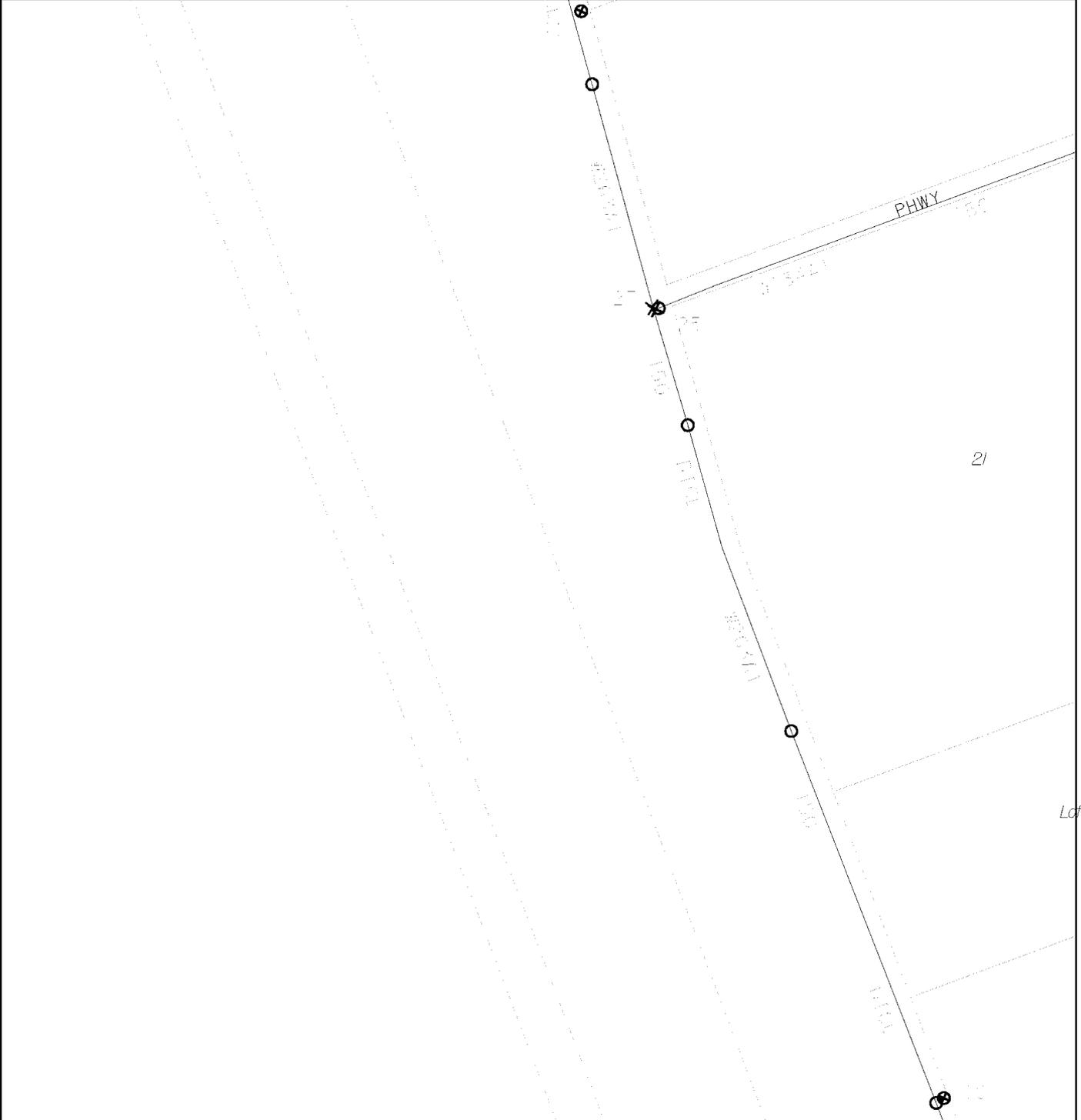
SEQUENCE NO.: 25121509

NOTIFICATION NO.: 5470523

APPLICANT : MR CONOR DOHERTY

DATE : 17-MAY-2012

UBD MAP REF : UBDNEW97K11



ALL MEASUREMENTS ARE METRIC.

IMPORTANT

SERVICE LOCATIONS ARE APPROXIMATE.
HAND DIG UNTIL ACTUAL LOCATIONS ARE IDENTIFIED.
PROPERTY SERVICES ARE NOT SHOWN.

ANY INFORMATION SHOWN ON THIS PLAN MAY NOT BE UP TO DATE
AND THE CORPORATION ACCEPTS NO RESPONSIBILITY FOR ITS
ACCURACY.

REFER TO ATTACHED ADVICE SHEET FOR FURTHER WARNINGS.

- (C) SEWER/WATER UTILITY DATA
HUNTER WATER CORPORATION
- (C) CADASTRAL/CONTOUR DATA
LAND PROPERTY INFORMATION



HUNTER WATER CORPORATION

A.B.N. 46 228 513 446

DIAL BEFORE YOU DIG

SERVICES PLAN

Enquiries: 1300 657657

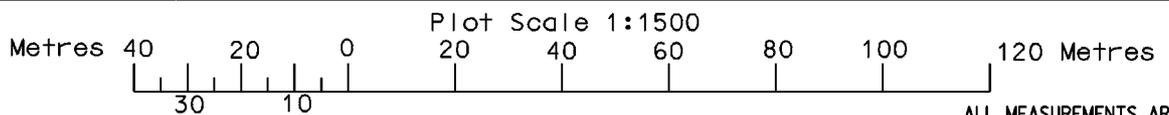
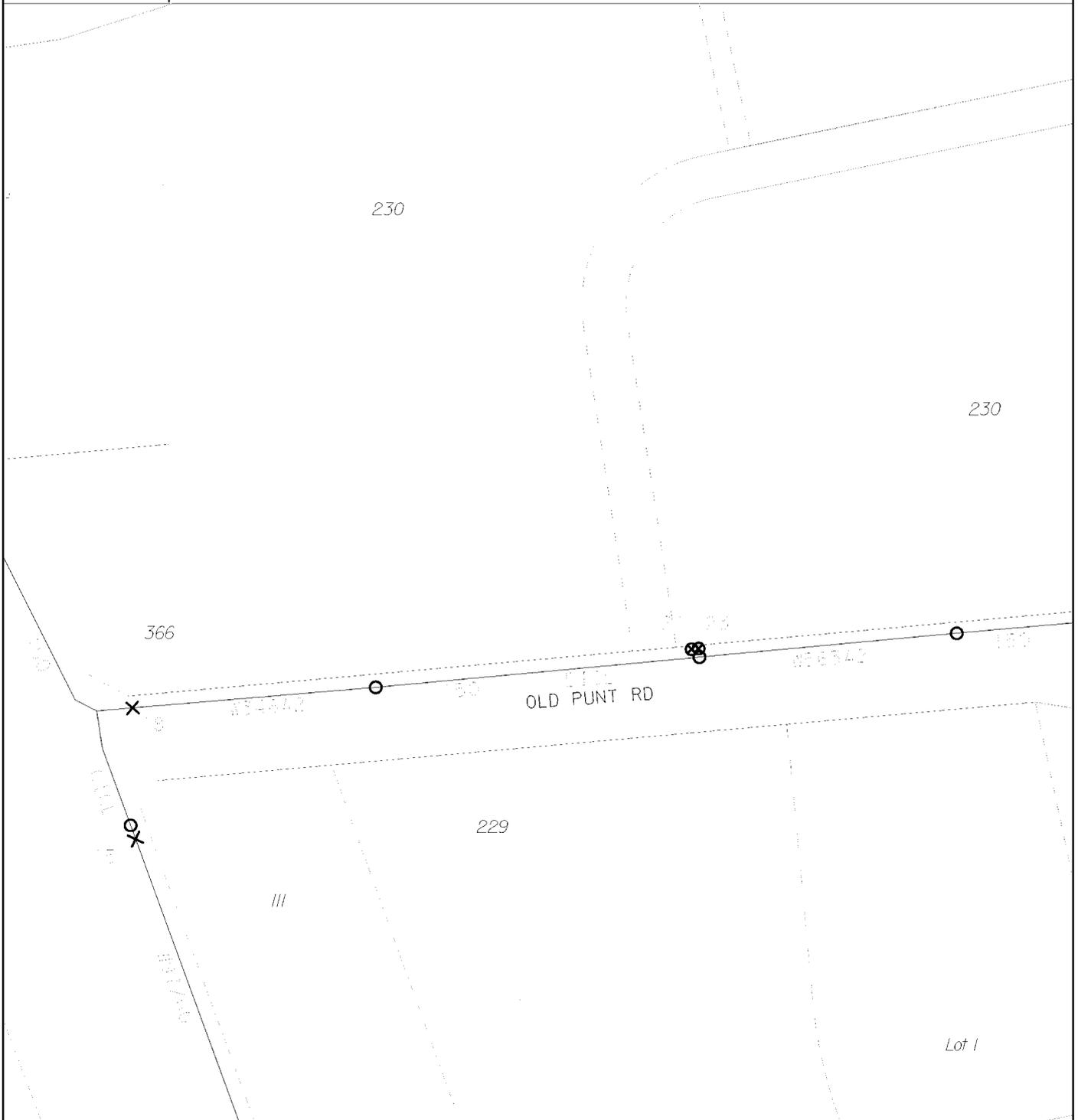
SEQUENCE NO.: 25121510

NOTIFICATION NO.: 5470523

APPLICANT : MR CONOR DOHERTY

DATE : 17-MAY-2012

UBD MAP REF : UBDNEW97K9



ALL MEASUREMENTS ARE METRIC.

IMPORTANT

SERVICE LOCATIONS ARE APPROXIMATE.
HAND DIG UNTIL ACTUAL LOCATIONS ARE IDENTIFIED.
PROPERTY SERVICES ARE NOT SHOWN.

ANY INFORMATION SHOWN ON THIS PLAN MAY NOT BE UP TO DATE
AND THE CORPORATION ACCEPTS NO RESPONSIBILITY FOR ITS
ACCURACY.

REFER TO ATTACHED ADVICE SHEET FOR FURTHER WARNINGS.

- (C) SEWER/WATER UTILITY DATA
HUNTER WATER CORPORATION
- (C) CADASTRAL/CONTOUR DATA
LAND PROPERTY INFORMATION



HUNTER WATER CORPORATION

A.B.N. 46 228 513 446

DIAL BEFORE YOU DIG

SERVICES PLAN

Enquiries: 1300 657657

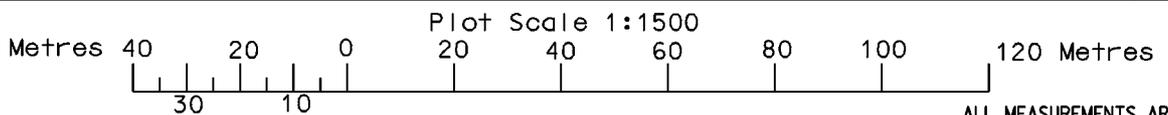
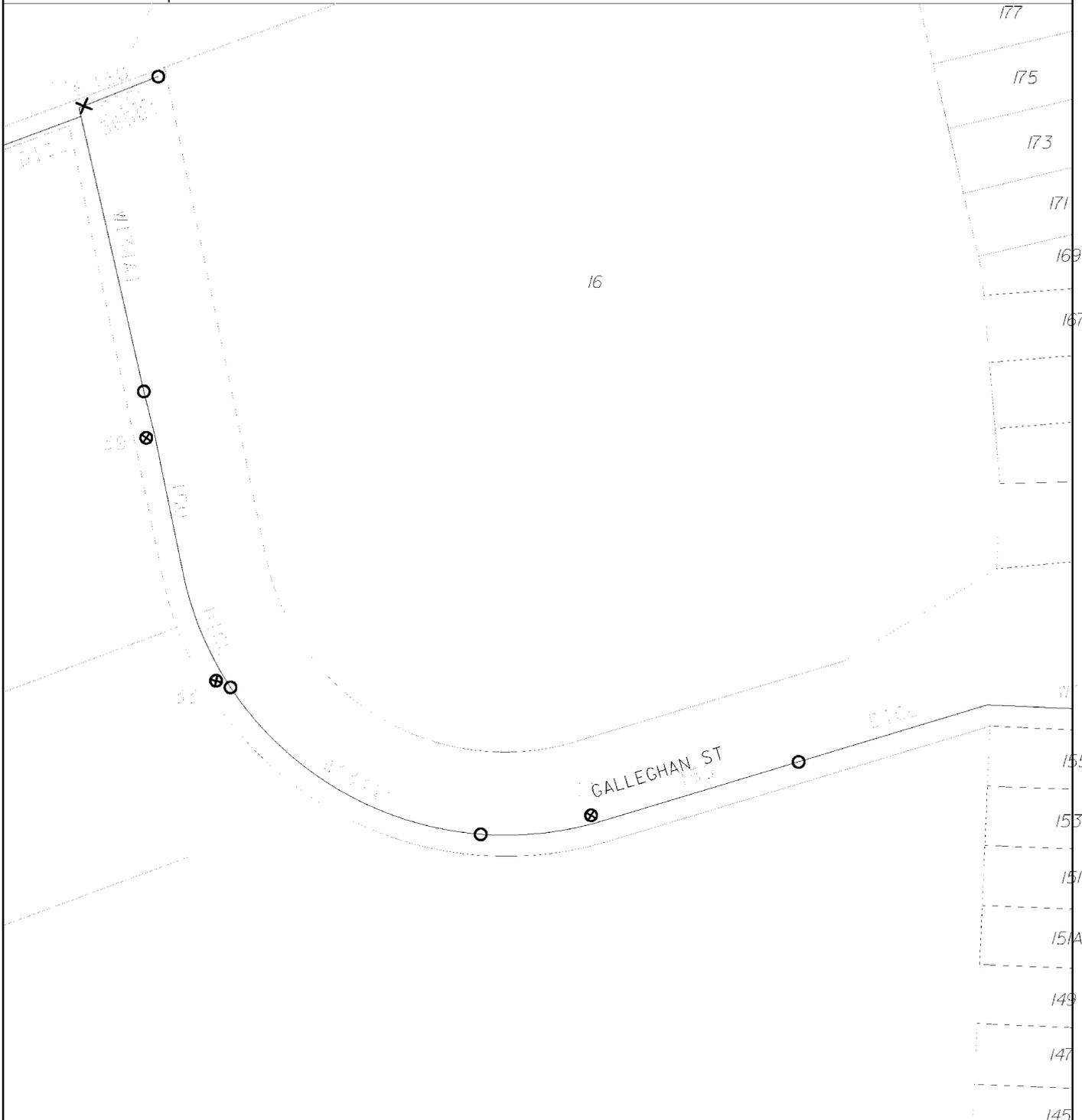
SEQUENCE NO.: 25121510

NOTIFICATION NO.: 5470523

APPLICANT : MR CONOR DOHERTY

DATE : 17-MAY-2012

UBD MAP REF : UBDNEW97L11



IMPORTANT

SERVICE LOCATIONS ARE APPROXIMATE.
HAND DIG UNTIL ACTUAL LOCATIONS ARE IDENTIFIED.
PROPERTY SERVICES ARE NOT SHOWN.

ANY INFORMATION SHOWN ON THIS PLAN MAY NOT BE UP TO DATE
AND THE CORPORATION ACCEPTS NO RESPONSIBILITY FOR ITS
ACCURACY.

REFER TO ATTACHED ADVICE SHEET FOR FURTHER WARNINGS.

- (C) SEWER/WATER UTILITY DATA
HUNTER WATER CORPORATION
- (C) CADASTRAL/CONTOUR DATA
LAND PROPERTY INFORMATION

BERESFIELD 6D



THIS MAP UPDATED ON 28/02/2011
 THIS PLAN IS DIAGRAMATIC ONLY. DISTANCES
 SCALED FROM THIS PLAN MAY NOT BE ACCURATE.
 DATE ALTERED:..... BY:.....

BF6A	BF6B	HE4A
BF6C	BF6D	HE4C
BF9A	BF9B	HE7A

ADJOINING MAPS

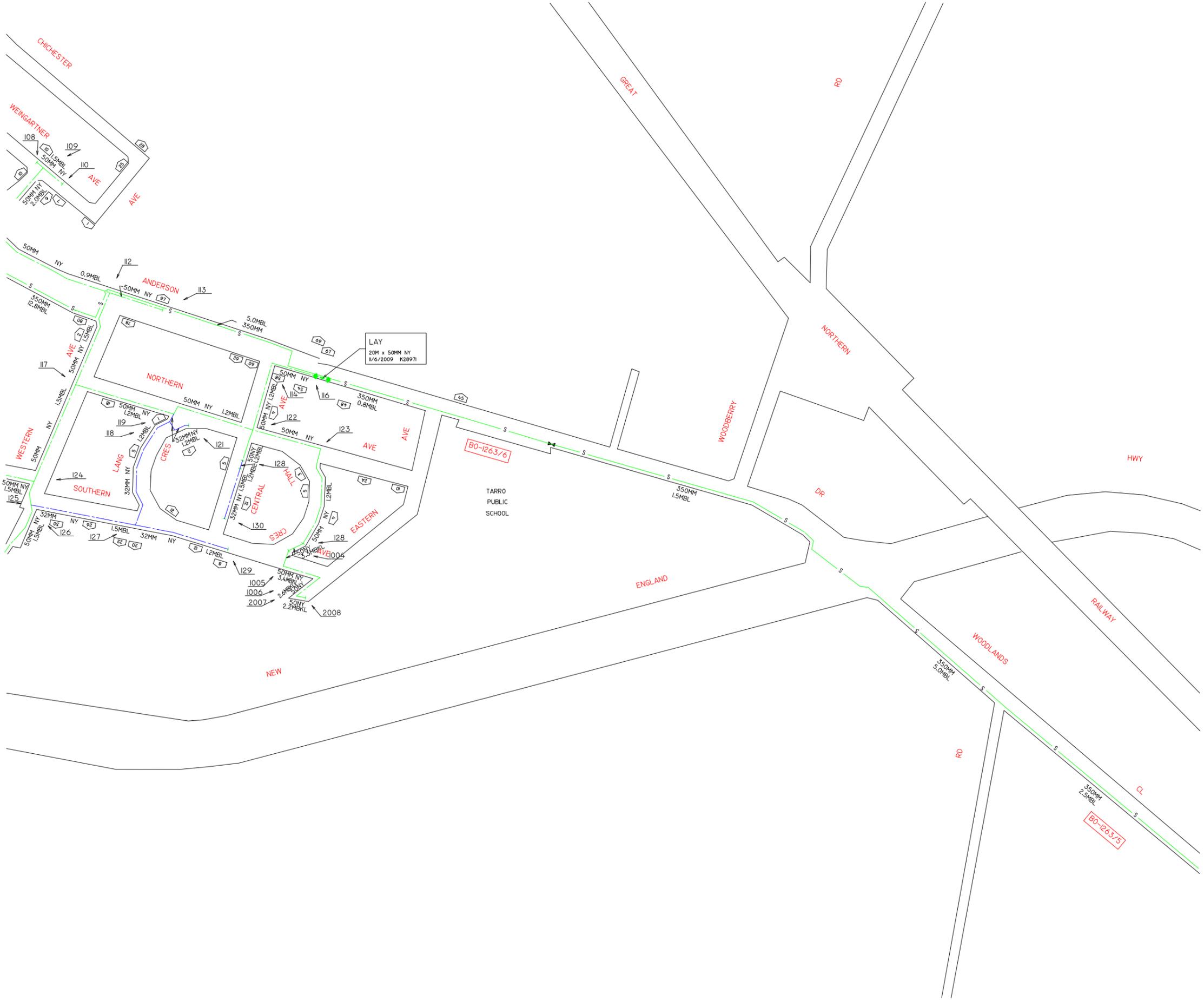
213	NEWCASTLE
NETWORK AREA	MUNICIPALITY AREA

Jemena

KEY - NEWCASTLE

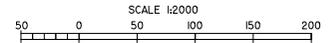
MAX ALLOWABLE OPERATING PRESSURE

	T	TRUNK MAIN	7000 kPa
	P	PRIMARY MAIN	3500 kPa
	S	SECONDARY MAIN	1050 kPa
			300 kPa
			210 kPa
			30 kPa
			2 kPa
		400	400 kPa
		100	100 kPa
		PROPOSED MAINS	
	PR 11-2 3	STEEL MAIN PROJECT NUMBER	
	P	PRESSURE MONITORING STATION	
		VALVE	
	S	SYSTEM PRESSURE REGULATOR	
	S	SIPHON	
	123	NETWORK NODES	
	123S	ITEM DETAIL SKETCH AVAILABLE	
	298	VALVE NUMBER (OLD NUMBERING)	
	6NB	6 INCH CAST IRON MAIN	
	150MM	150MM STEEL MAIN	
	110MM PE/NY	110MM POLYETHYLENE/NYLON MAIN	
	50MM NY	50MM NYLON INSERTED INTO 6NB MAIN CAST IRON MAIN	
	L2MBL	DISTANCE IN METRES OF MAIN FROM BUILDING LINE (TOLERANCE OF 0.4M)	
	1957	YEAR LAID	
	---	MUNICIPALITY BOUNDARY	
	---	NETWORK BOUNDARY	
	123	HOUSE NUMBER	
		BERESFIELD 6D	



Grid lines A, B, C, D, E and 1, 2, 3, 4, 5 are present across the map.

HEXHAM 4C



THIS MAP UPDATED ON 30/06/99
THIS PLAN IS DIAGRAMATIC ONLY. DISTANCES
SCALED FROM THIS PLAN MAY NOT BE ACCURATE.
DATE ALTERED:..... BY:.....

BF6B	HE4A	HE4B
BF6D	HE4C	HE4D
BF9B	HE7A	HE7B

ADJOINING MAPS



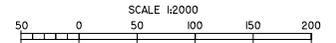
KEY

- MAX ALLOWABLE OPERATING PRESSURE**
- T TRUNK MAIN 7000 kPa
 - P PRIMARY MAIN 3500 kPa
 - S SECONDARY MAIN 1050 kPa
 - 300 kPa
 - 210 kPa
 - 30 kPa
 - 2 kPa
 - 400 400 kPa
 - 100 100 kPa
- PROPOSED MAINS**
- PR 1-2 3 STEEL MAIN PROJECT NUMBER
 - △ PRESSURE MONITORING STATION
 - ▽ VALVE
 - SYSTEM PRESSURE REGULATOR
 - SIPHON
 - 233 NETWORK NODES
 - 235 ITEM DETAIL SKETCH AVAILABLE
 - 6NB VALVE NUMBER (OLD NUMBERING)
 - 150MM 6 INCH CAST IRON MAIN
 - 110MM PE/NY 110MM POLYETHYLENE/NYLON MAIN
 - 50MM NY 50MM NYLON INSERTED INTO 6NB MAIN CAST IRON MAIN
 - 1.2MBL DISTANCE IN METRES OF MAIN FROM BUILDING LINE (TOLERANCE OF 0.4M)
 - 1957 YEAR LAID
 - + + + - MUNICIPALITY BOUNDARY
 - NETWORK BOUNDARY
 - HOUSE NUMBER

HEXHAM 4C



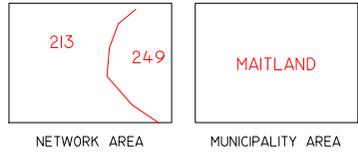
HEXHAM 7A



THIS MAP UPDATED ON 20/12/01
 THIS PLAN IS DIAGRAMATIC ONLY. DISTANCES
 SCALED FROM THIS PLAN MAY NOT BE ACCURATE.
 DATE ALTERED:..... BY:.....

BF6D	HE4C	-
BF9B	HE7A	HE7B
BF9B	HE7C	HE7D

ADJOINING MAPS



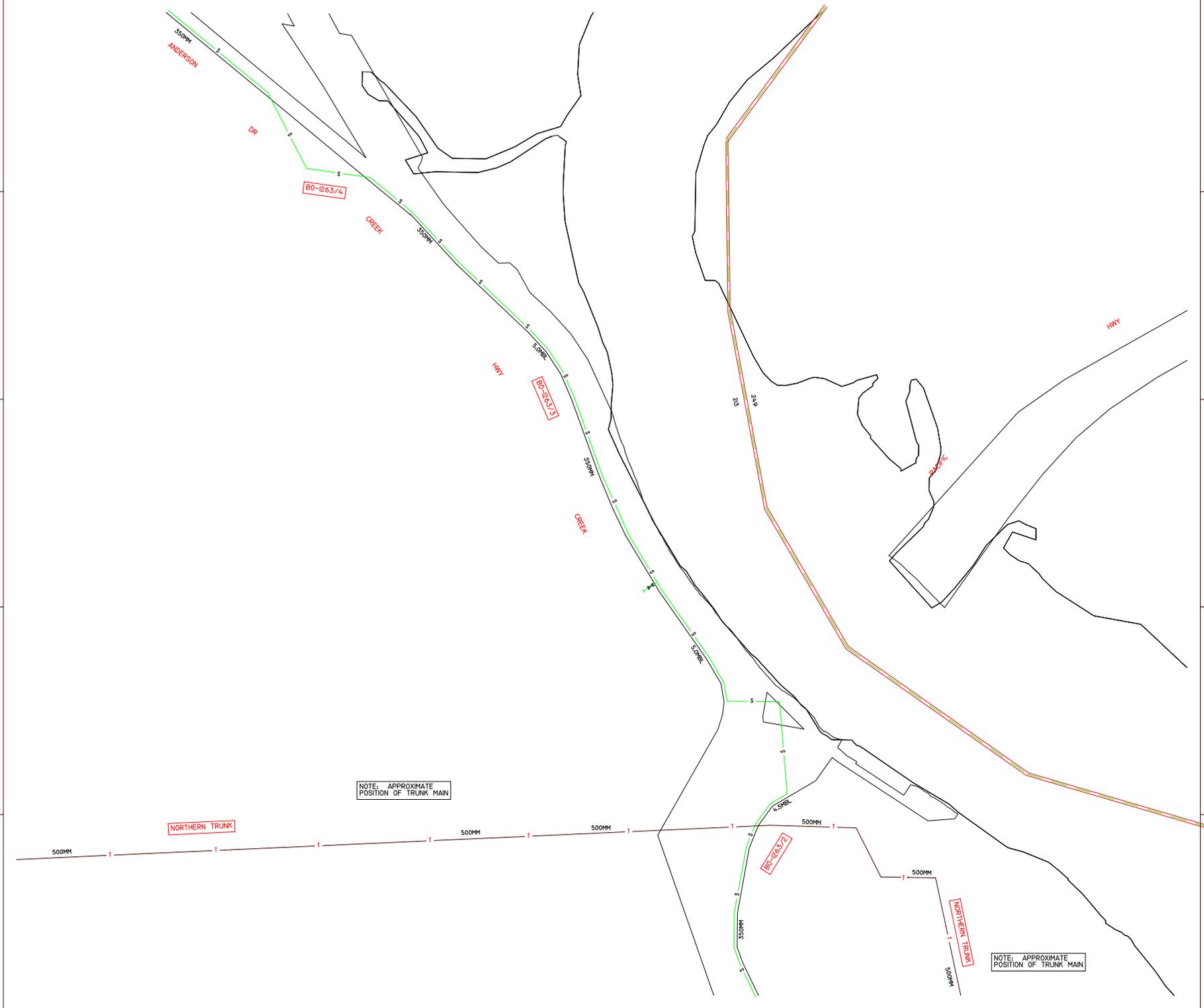
KEY

MAX ALLOWABLE OPERATING PRESSURE

T	TRUNK MAIN	7000 kPa
P	PRIMARY MAIN	3500 kPa
S	SECONDARY MAIN	1050 kPa
---		300 kPa
---		210 kPa
---		30 kPa
---		2 kPa
---		400 kPa
---		100 kPa

- PROPOSED MAINS
- PR 1-2 3 STEEL MAIN PROJECT NUMBER
- △ PRESSURE MONITORING STATION
- ▽ VALVE
- SYSTEM PRESSURE REGULATOR
- SIPHON
- 233 NETWORK NODES
- 235 ITEM DETAIL SKETCH AVAILABLE
- 6NB VALVE NUMBER (OLD NUMBERING)
- 6NB 6 INCH CAST IRON MAIN
- 150MM 150MM STEEL MAIN
- 110MM PE/NY 110MM POLYETHYLENE/NYLON MAIN
- ②NB 50MM NY 50MM NYLON INSERTED INTO 6NB MAIN CAST IRON MAIN
- 1.2MBL DISTANCE IN METRES OF MAIN FROM BUILDING LINE (TOLERANCE OF 0.4M)
- 1957 YEAR LAID
- + + - - MUNICIPALITY BOUNDARY
- NETWORK BOUNDARY
- 62 HOUSE NUMBER

HEXHAM 7A



In reply to your enquiry, there are **High Pressure Gas Mains** in the vicinity of your intended work, as generally illustrated on the attached map. There may also be other mains or services at the location, as discussed in the warning below. For an explanation of the map, please see the key below.

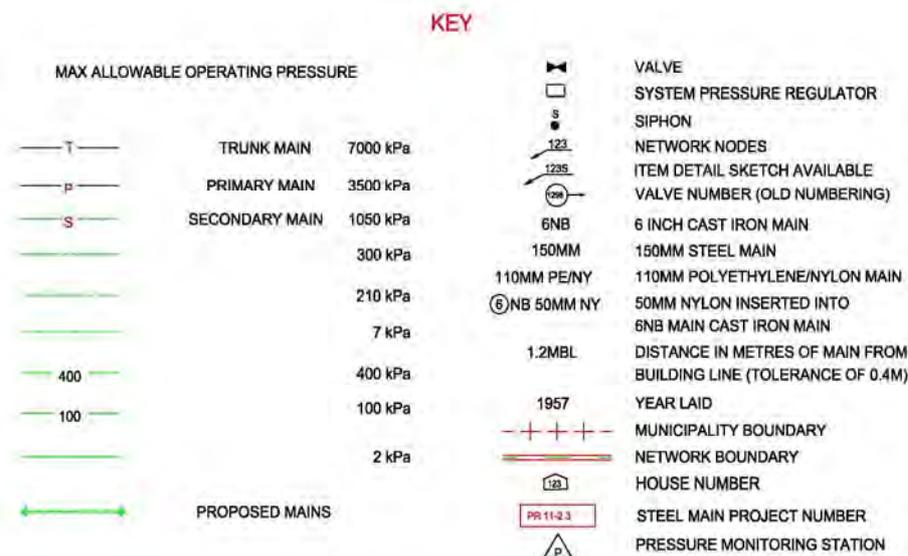
The following excavations guidelines apply:

Excavation Guidelines:

Prior to **any** excavations in this area, you **must** contact the High Pressure Response Coordinator on **1300 665 380**. **(Please note that a minimum two working days notice is required)** to arrange a survey. For all works in the vicinity of High Pressure Gas Mains you must arrange for a Pipeline Technician to attend and supervise all excavations. Charges apply for attendance of any works outside the hours of 7am to 4pm, Monday to Friday ("**Standard Business Hours**") and for any attendance during Standard Business Hours that is longer than 2 hours.

In accordance with clause 34D(1) of the Gas Supply (Safety and Network Management) Regulation 2008 (NSW), you should be informed that all excavation, (including pot-holing by hand to confirm the location of pipes) should be performed in accordance with "**Work Near Underground Assets Guideline**" published in 2007 by the Work Cover Authority.

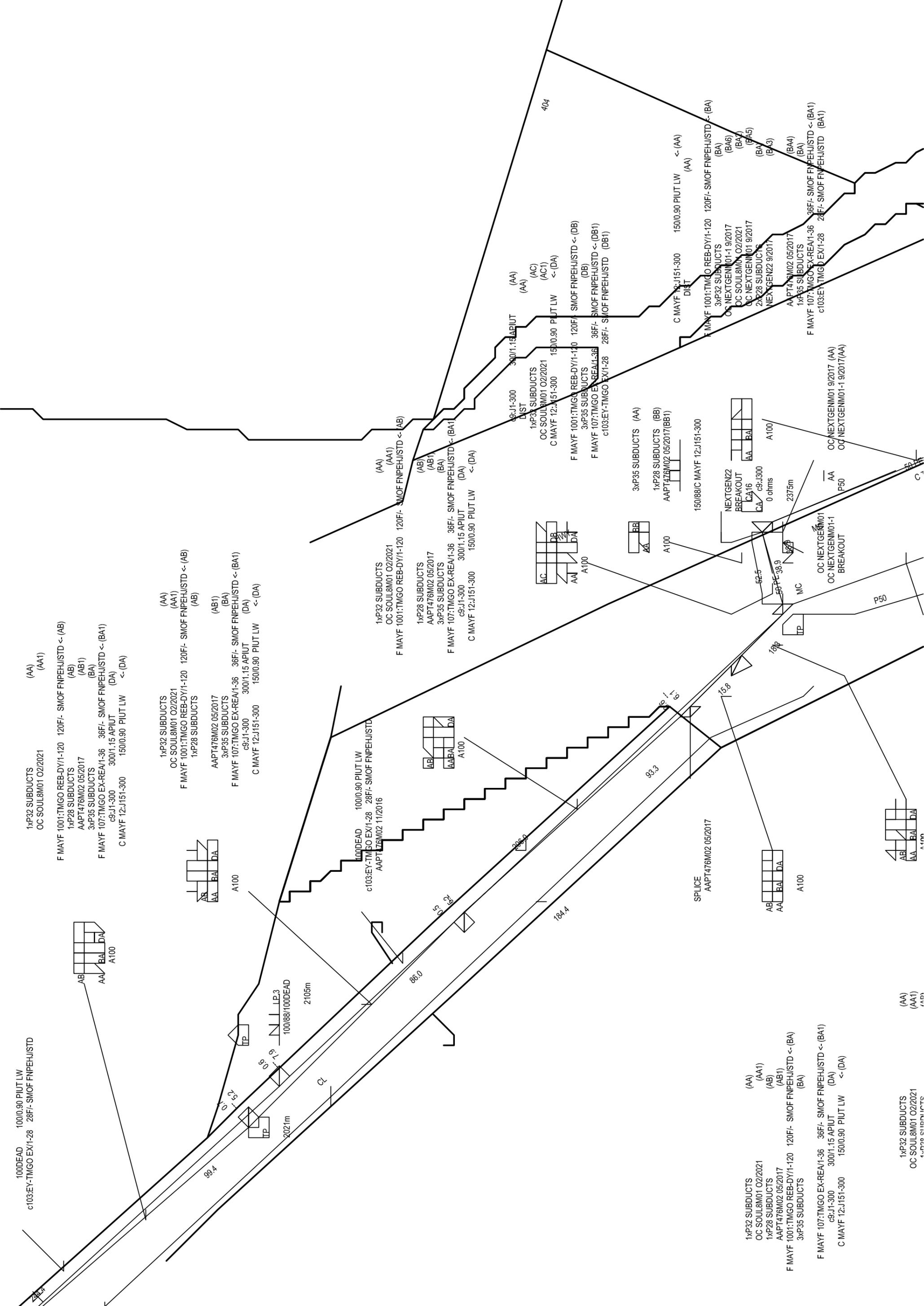
A copy of this Guideline is available at: www.workcover.nsw.gov.au



Warning: The enclosed plans show the position of Jemena Gas Networks (NSW) Ltd's underground gas mains and installations in public gazetted roads only. **Individual customers' services and services belonging to other third parties are not included** on these plans. These plans have been prepared solely for the use of Jemena Gas Networks (NSW) Ltd and Jemena Asset Management Pty Ltd (together "Jemena") and any reliance placed on these plans by you is entirely at your own risk. The plans may show the position of underground mains and installations relative to fences, buildings etc., as they existed at the time the mains etc were installed. The plans may not have been updated to take account of any subsequent change in the location or style of those features since the time at which the plans were initially prepared. Jemena makes no warranty as to the accuracy or completeness of the enclosed plans and does not assume any duty of care to you nor any responsibility for the accuracy, adequacy, suitability or completeness of the plans or for any error, omission, lack of detail, transmission failure or corruption in the information provided. Jemena does not accept any responsibility for any loss that you or anyone else may suffer in connection with the provision of these plans, however that loss may arise (including whether or not arising from the negligence of Jemena, its employees, agents, officers or contractors). The recipient of these plans must use their own care and diligence in carrying out their works and must carry out further surveys to locate services at their work site. Persons excavating or carrying out other earthworks will be held responsible for any damage caused to Jemena's underground mains and equipment. Jemena advises that you may be required to carry out potholing by hand if required by a Pipeline Technician to confirm the location of Jemena's main and installations. This must also be performed by you under the supervision of a Pipeline Technician and be carried out in accordance with the Working Near Underground Assets Guideline published in 2007 by Work Cover Authority

In case of Emergency Phone 131 909 (24 hours)

Rebecca
93979107



100DEAD 100/90 PIUT LW
c103:EY-TMGO EX/1-28 28F/- SMOF FNPEHJ/STD

1X P32 SUBDUCTS
OC SOUL8M01 02/2021
F MAYF 1001:TMGO REB-DY/1-120 120F/- SMOF FNPEHJ/STD <- (AB)
1X P28 SUBDUCTS
AAPT476M02 05/2017
3X P35 SUBDUCTS
F MAYF 107:TMGO EX-REA1-36 36F/- SMOF FNPEHJ/STD <- (BA1)
c9:J1-300 300/1.15 APIUT (DA)
C MAYF 12:J151-300 150/0.90 PIUT LW <- (DA)

1X P32 SUBDUCTS
OC SOUL8M01 02/2021
F MAYF 1001:TMGO REB-DY/1-120 120F/- SMOF FNPEHJ/STD <- (AB)
1X P28 SUBDUCTS
AAPT476M02 05/2017
3X P35 SUBDUCTS
F MAYF 107:TMGO EX-REA1-36 36F/- SMOF FNPEHJ/STD <- (BA1)
c9:J1-300 300/1.15 APIUT (DA)
C MAYF 12:J151-300 150/0.90 PIUT LW <- (DA)

100DEAD 100/90 PIUT LW
c103:EY-TMGO EX/1-28 28F/- SMOF FNPEHJ/STD
AAPT476M02 11/2016

1X P32 SUBDUCTS
OC SOUL8M01 02/2021
F MAYF 1001:TMGO REB-DY/1-120 120F/- SMOF FNPEHJ/STD <- (AB)
1X P28 SUBDUCTS
AAPT476M02 05/2017
3X P35 SUBDUCTS
F MAYF 107:TMGO EX-REA1-36 36F/- SMOF FNPEHJ/STD <- (BA1)
c9:J1-300 300/1.15 APIUT (DA)
C MAYF 12:J151-300 150/0.90 PIUT LW <- (DA)

1X P32 SUBDUCTS
OC SOUL8M01 02/2021
C MAYF 12:J151-300 150/0.90 PIUT LW <- (DA)
F MAYF 1001:TMGO REB-DY/1-120 120F/- SMOF FNPEHJ/STD <- (DB)
3X P35 SUBDUCTS
F MAYF 107:TMGO EX-REA1-36 36F/- SMOF FNPEHJ/STD <- (DB1)
c103:EY-TMGO EX/1-28 28F/- SMOF FNPEHJ/STD (DB1)

3X P35 SUBDUCTS (AA)
1X P28 SUBDUCTS (BB)
AAPT476M02 05/2017 (BB1)

SPLICE
AAPT476M02 05/2017

1X P32 SUBDUCTS (AA)
OC SOUL8M01 02/2021 (AA1)
1X P28 SUBDUCTS (AB)
AAPT476M02 05/2017 (AB1)
F MAYF 1001:TMGO REB-DY/1-120 120F/- SMOF FNPEHJ/STD <- (BA)
3X P35 SUBDUCTS (BA)
F MAYF 107:TMGO EX-REA1-36 36F/- SMOF FNPEHJ/STD <- (BA1)
c9:J1-300 300/1.15 APIUT (DA)
C MAYF 12:J151-300 150/0.90 PIUT LW <- (DA)

1X P32 SUBDUCTS
OC SOUL8M01 02/2021
1X P28 SUBDUCTS

AB
AA
BA
DA
A100

OC NEXTGENM01
OC NEXTGENM01-1
BREAKOUT

OC NEXTGENM01 9/2017 (AA)
OC NEXTGENM01-1 9/2017 (AA)

OC NEXTGENM01 9/2017 (BA)
OC NEXTGENM01-1 9/2017 (BA)

OC NEXTGENM01 9/2017 (BA5)
OC NEXTGENM01 9/2017 (BA3)
OC NEXTGENM01 9/2017 (BA4)
OC NEXTGENM01 9/2017 (BA)

OC NEXTGENM01 9/2017 (BA1)
OC NEXTGENM01-1 9/2017 (BA1)

(c2)

(c12)

(H)

DIST (AA) (AB)
 <C MAYF 101:201/J1-80 54/0.90 PIQL (AB)
 <C MAYF 5:201/J81-100
 4DEAD
 C MAYF 102:201/J1-300 300/0.90 PIQL <(BA)
 C:1:M1-200 (CA)
 F MAYF 1001:REV-B/J1-120 120F-SMOF FNPEHJSTD <(EB)
 1X28 SUBDUCTS (EB)
 AAP1476M02 05/2017 (EB1)
 C3:M1-100 100 PLOT MBHU (FA)
 3X235 SUBDUCTS (FA)
 F NL1TN 2003:REV-A/J1-100 100F-SMOF FNPEHJ <(FA2)
 F MAYF 107:REA-REB/1-36 36F-SMOF FNPEHJSTD <(FA1)

AB	CA	EB	FA
AAB	CA	EB	FA

A100



C3002:REX-AO/1-60 60F-SMOF FNPEHU/STD <- (AA)
3P31 SUBDUCTS (AA)
F NLTN 2003:REV-AJ/1-100 100F-SMOF FNPEHU (AA2)
F TARR 103:EV-REX/1-20 20F-SMOF FNPEHU (AA1)
F MAYF 1001:REX-AO/1-60 60F-SMOF FNPEHU/STD (BA)
L12
DP10751

(c2) C MAYF 101:J1-50 1000.90 PIQL <- (AA)
<C MAYF 101:J51-80
C MAYF 101:J81-100

□ T217
□ O402

4P31 SUBDUCTS (AA)
F MAYF 1001:BL-BK/1-72 72F-SMOF FNPEHU/STD (AA3)
F TARR 103:EV-REX/1-20 20F-SMOF FNPEHU (AA1)
F NLTN 2003:REV-AJ/1-100 100F-SMOF FNPEHU (AA2)
C3002:REX-AO/1-60 60F-SMOF FNPEHU/STD <- (AB)
A100 PIQL

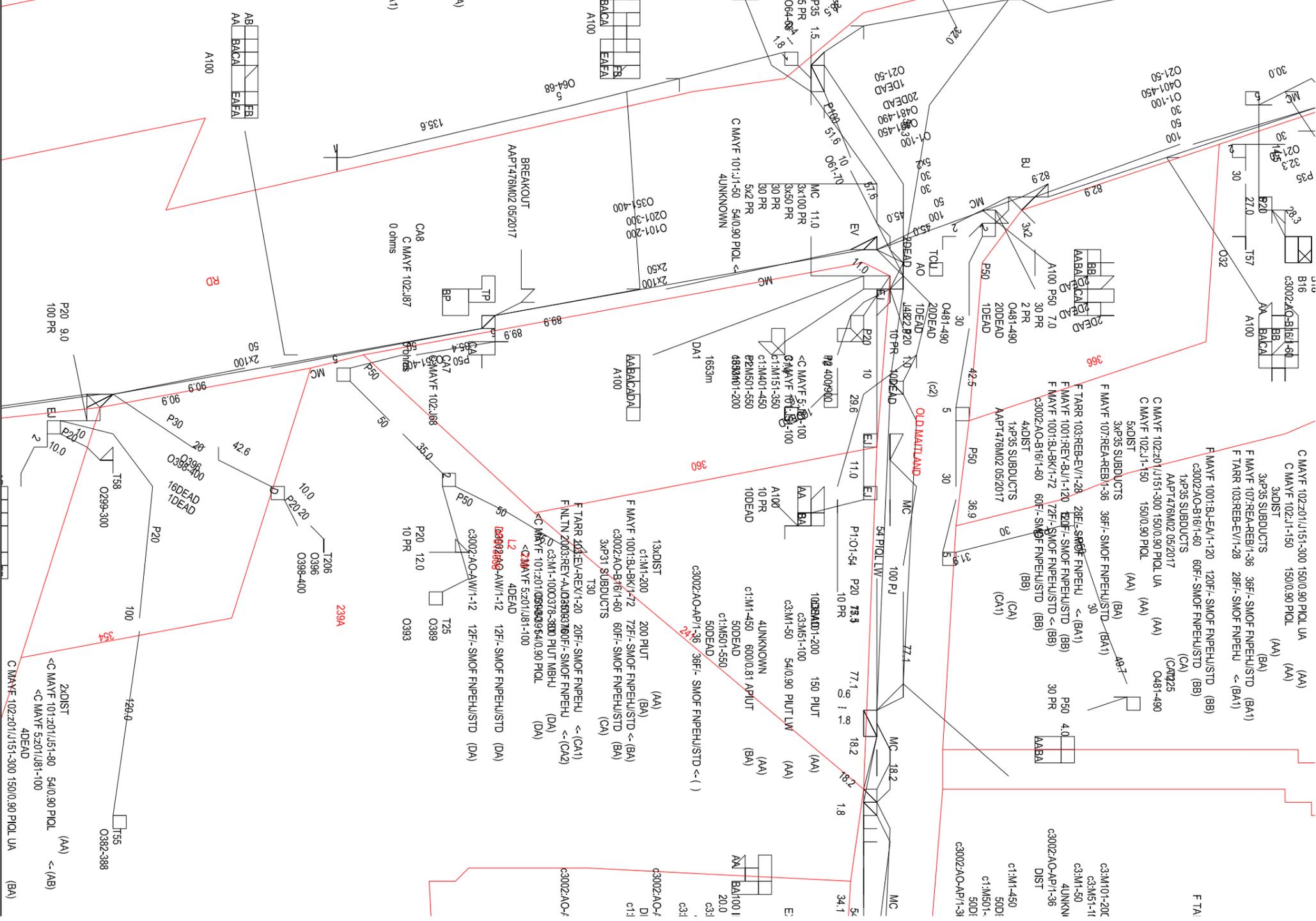
(c2) C MAYF 101:J1-50 1000.90 PIQL <-
<C MAYF 101:J51-80
C MAYF 101:J81-100

4XDIST (AA)
<C MAYF 101:Z01/J51-80 54/0.90 PIQL <- (AB)
<C MAYF 5201/J81-100 (BA)
4XDIST (AA)
<C MAYF 101:Z01/J51-80 54/0.90 PIQL <- (AB)
<C MAYF 5201/J81-100 (BA)
4DEAD (BA)
C MAYF 102:Z01/J1-150 1500.90 PIQL UA (BA)
C MAYF 102:Z1-150 1500.90 PIQL <- (CA)
C1M1-200 200 PIUT <- (CA)

F MAYF 1001:REY-BJ/1-120 120F-SMOF FNPEHU/STD (EA)
1P35 SUBDUCTS (EA)
AAP174/6M02 05/2017 (EA1)
C3M1-100 100 PIUT MBHU <- (FA)
3P35 SUBDUCTS (FA)
F MAYF 107:REA-REB/1-36 36F-SMOF FNPEHU/STD (FA1)
F MAYF 104:EU-EV/1-28 28F-SMOF FNPEHU (FA1)
F NLTN 2003:REV-AJ/1-100 100F-SMOF FNPEHU (FA2)
C3002:AO-AW/1-12 12F-SMOF FNPEHU/STD <- (FB)
C3002:AO-AW/1-12 12F-SMOF FNPEHU/STD <- (FB)

3XDIST (AA)
<C MAYF 101:Z01/J51-80 54/0.90 PIQL <- (AB)
<C MAYF 5201/J81-100 (BA)
4DEAD (BA)
C MAYF 102:Z01/J1-150 1500.90 PIQL UA (BA)
C MAYF 102:Z01/J1-150 1500.90 PIQL (BA)
C1M1-200 200 PIUT <- (CA)
F MAYF 1001:REY-BJ/1-120 120F-SMOF FNPEHU/STD (EA)
1P35 SUBDUCTS (EA)
AAP174/6M02 05/2017 (EA1)
C3M1-100 100 PIUT MBHU <- (FA)
3P35 SUBDUCTS (FA)
F MAYF 107:REA-REB/1-36 36F-SMOF FNPEHU/STD (FA1)
F MAYF 104:EU-EV/1-28 28F-SMOF FNPEHU (FA1)
F NLTN 2003:REV-AJ/1-100 100F-SMOF FNPEHU (FA2)

C3002:AO-AW/1-12 12F-SMOF FNPEHU/STD <- (FB)
C3002:AO-AW/1-12 12F-SMOF FNPEHU/STD <- (FB)



C MAYF 102:Z01/J1-150 1500.90 PIQL UA (AA)
C MAYF 102:Z1-150 1500.90 PIQL (AA)
3XDIST (AA)
3P35 SUBDUCTS (BA)
F MAYF 107:REA-REB/1-36 36F-SMOF FNPEHU/STD (BA1)
F TARR 103:REB-EV/1-28 28F-SMOF FNPEHU <- (BA1)
F MAYF 1001:BL-EA/1-120 120F-SMOF FNPEHU/STD (BB)
C3002:AO-B/1-60 60F-SMOF FNPEHU/STD (BB)
1P35 SUBDUCTS (CA)
AAP174/6M02 05/2017 (CA)
C MAYF 102:Z01/J1-150 1500.90 PIQL UA (AA)
C MAYF 102:Z1-150 1500.90 PIQL (AA)
O481-490
5XDIST (AA)
3P35 SUBDUCTS (BA)
F MAYF 107:REA-REB/1-36 36F-SMOF FNPEHU/STD (BA1)
F TARR 103:REB-EV/1-28 28F-SMOF FNPEHU <- (BA1)
F MAYF 1001:REY-BJ/1-120 120F-SMOF FNPEHU/STD (BB)
F MAYF 1001:BL-BK/1-72 72F-SMOF FNPEHU/STD <- (BB)
C3002:AO-B/1-60 60F-SMOF FNPEHU/STD (BB)
4XDIST (BB)
1P35 SUBDUCTS (CA)
AAP174/6M02 05/2017 (CA1)

F TARR 103:REB-EV/1-28 28F-SMOF FNPEHU <- (BA1)
F MAYF 1001:REY-BJ/1-120 120F-SMOF FNPEHU/STD (BB)
F MAYF 1001:BL-BK/1-72 72F-SMOF FNPEHU/STD <- (BB)
C3002:AO-B/1-60 60F-SMOF FNPEHU/STD (BB)
4XDIST (BB)
1P35 SUBDUCTS (CA)
AAP174/6M02 05/2017 (CA1)

10DEAD/1-200 150 PIUT (AA)
C3M1-100 100 PIUT (AA)
C3M1-50 54/0.90 PIUT LW (AA)
A100 10 PR (AA)
C1M1-450 600/0.81 AP/UT (BA)
50DEAD (BA)
C1M501-550 (BA)
50DEAD (BA)
C3002:AO-AP/1-36 36F-SMOF FNPEHU/STD <- ()

13XDIST (AA)
C1M1-200 200 PIUT (BA)
F MAYF 1001:BL-BK/1-72 72F-SMOF FNPEHU/STD <- (BA)
C3002:AO-B/1-60 60F-SMOF FNPEHU/STD (BA)
3P31 SUBDUCTS (CA)
T30
F TARR 103:EV-REX/1-20 20F-SMOF FNPEHU <- (CA1)
F NLTN 2003:REV-AJ/03/03/07/0F-SMOF FNPEHU <- (CA2)
<C3M1-1000378-300 PIUT MBHU (DA)
<C MAYF 101:Z01/J05/03/03/04/0.90 PIQL (DA)
<C MAYF 5201/J81-100 (DA)
4DEAD (DA)
C3002:AO-AW/1-12 12F-SMOF FNPEHU/STD (DA)
C3002:AO-AW/1-12 12F-SMOF FNPEHU/STD (DA)

2XDIST (AA)
<C MAYF 101:Z01/J51-80 54/0.90 PIQL <- (AB)
<C MAYF 5201/J81-100 (BA)

F MAYF 104:EU-EV/1-28 28F/-SMOF FNPEHU (FA1)
F NLTN 2003:REV-A/J/1-100 100F/-SMOF FNPEHU (FA2)
C3002:AO-AW/1-12 12F/-SMOF FNPEHU/STD <-(FB)
C3002:AO-AW/1-12 12F/-SMOF FNPEHU/STD <-(FB)

2XDIST (AA)
<C MAYF 101:201/J/1-80 54/0.90 PIQL <-(AB)
<C MAYF 5:201/J/81-100

4DEAD
C MAYF 102:201/J/1-150 150/0.90 PIQL UA (BA)
C MAYF 102:201/J/1-150 150/0.90 PIQL (BA)
C1:M1-200 200 P/UT <-(CA)
F MAYF 1001:REV-B/J/1-120 120F/-SMOF FNPEHU/STD (EA)
1P35 SUBDUCTS (EA)
AAP1476M02 05/2017 (EA1)

2XDIST (AA)
<C MAYF 101:201/J/1-80 54/0.90 PIQL <-(AB)
<C MAYF 5:201/J/81-100

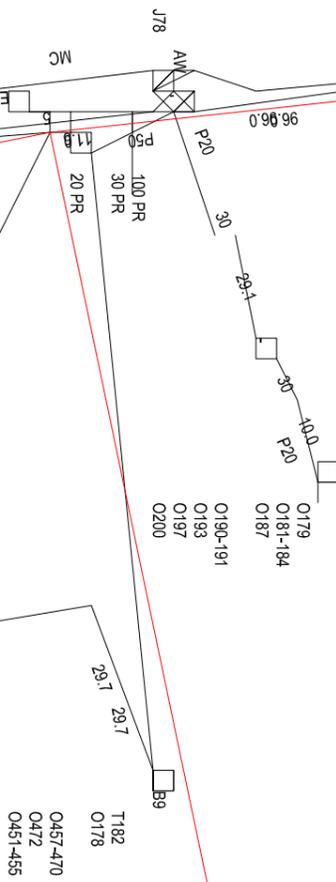
4DEAD
C MAYF 102:201/J/1-150 150/0.90 PIQL UA (BA)
C MAYF 102:201/J/1-150 150/0.90 PIQL (BA)
C1:M1-200 200 P/UT <-(CA)
F MAYF 1001:REV-B/J/1-120 120F/-SMOF FNPEHU/STD (EA)
1P35 SUBDUCTS (EA)
AAP1476M02 05/2017 (EA1)
C3:M1-100 100 P/UT MBHU <-(FA)
3P35 SUBDUCTS (FA)
F NLTN 2003:REV-A/J/1-100 100F/-SMOF FNPEHU (FA1)
F MAYF 107:REA-REB/1-36 36F/-SMOF FNPEHU/STD (FA2)
F MAYF 104:EU-EV/1-28 28F/-SMOF FNPEHU (FA1)
C3002:AM-A/X/1-12 12F/-SMOF FNPEHU/STD <-(FB)

P20 9.0
100 PR

AB	BA	CA	EA	FA
AA	BACA	EAFA		

0165-166
0169
0177-179
0181-184
0186-187
0190-191
0193-194
0197
0199-200
0457-470
0472
0451-455
0201-300

2XDIST (AA)
<C MAYF 101:201/J/1-80 54/0.90 PIQL <-(AB)
<C MAYF 5:201/J/81-100
4DEAD
C MAYF 102:201/J/1-150 150/0.90 PIQL UA (BA)
C MAYF 102:201/J/1-150 150/0.90 PIQL <-(CA)
C1:M1-200 200 P/UT <-(CA)
F MAYF 1001:REV-B/J/1-120 120F/-SMOF FNPEHU/STD (EA)
1P35 SUBDUCTS (EA)
AAP1476M02 05/2017 (EA1)
C3:M1-100 100 P/UT MBHU <-(FA)
3P35 SUBDUCTS (FA)
F NLTN 2003:REV-A/J/1-100 100F/-SMOF FNPEHU (FA2)
F MAYF 107:REA-REB/1-36 36F/-SMOF FNPEHU/STD (FA1)
F MAYF 104:EU-EV/1-28 28F/-SMOF FNPEHU (FA1)
C3002:AO-AW/1-12 12F/-SMOF FNPEHU/STD <-(FB)
C3002:AM-AW/1-12 12F/-SMOF FNPEHU/STD <-(FB)
0165-166
0177
0179
0181-184
0187
0190-191
0193
0197
0200



AB	BA	CA	EA	FA
AA	BACA	EAFA		

0155
0149
0169
0201-300
2
50
100
45DEAD
0147
0153
0456

AB	BA	CA	EA	FA
AA	BACA	EAFA		

0169
0149
0155
0153
0456
45DEAD
0201-300
50
100

0101-103
0106-108
0110-113
0115-116
0118-120
0135
0145
0151-152
0156
0159

MATLAND

GALLEGHAN

338

21

P50

2XDIST
<C MAYF 101:201/J51-80 54/0.90 PIQL (AA) <(AB)

C MAYF 102:201/J1-300 300/0.90 PIQL (BA)
C1:M1-200 200 PLUT <(CA)
F MAYF 1001:REY-BJ1-120 120F-SMOF FNPEHU/STD (DB)
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AAPT476M02 05/2017 (DB1)

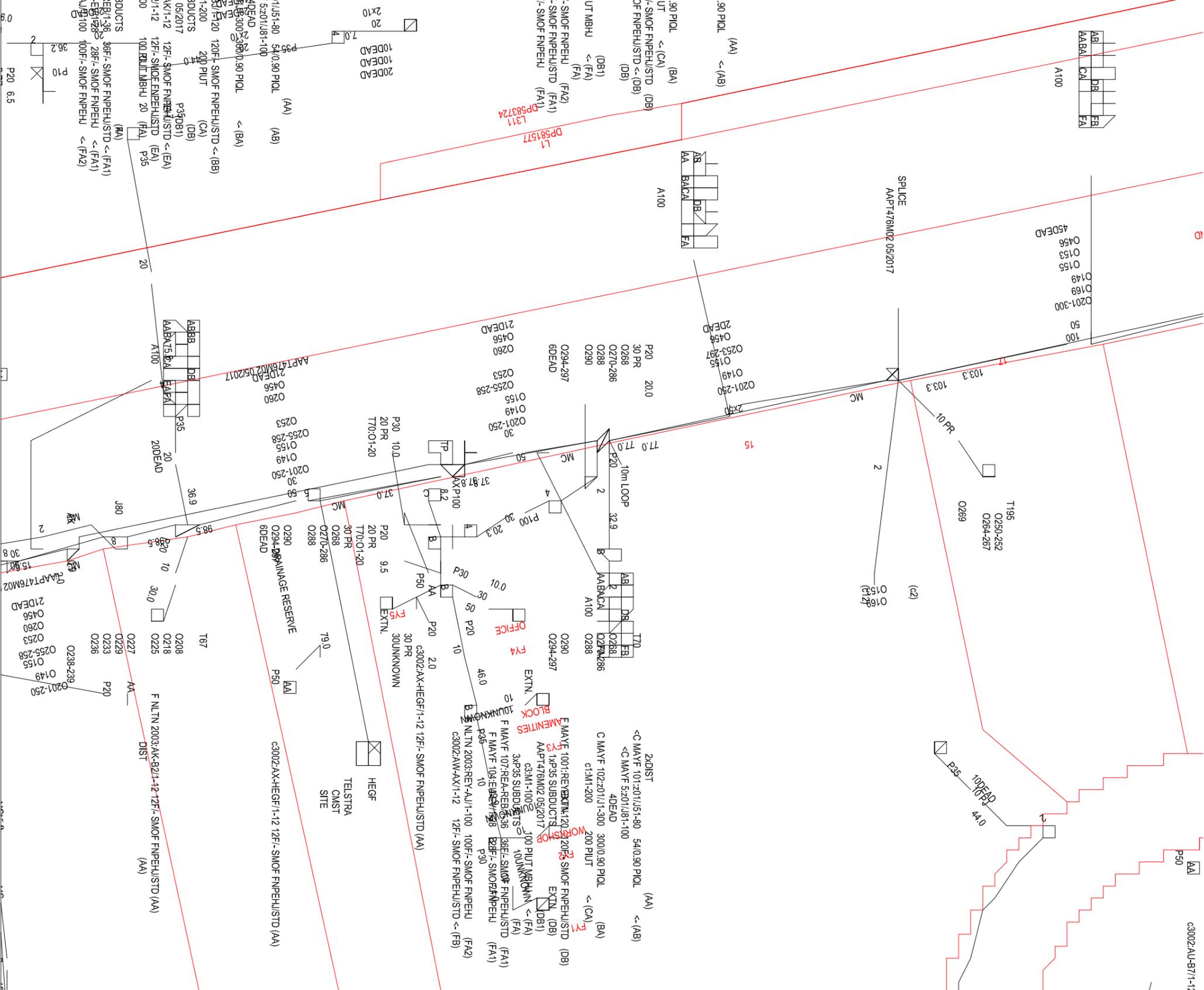
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F MAYF 104:EU-EV1-28 28F-SMOF FNPEHU (FA2)
F NLTN 2003:REY-AJ1-100 100F-SMOF FNPEHU (FA2)
C3002:AW-AX1-12 12F-SMOF FNPEHU/STD <(FB)

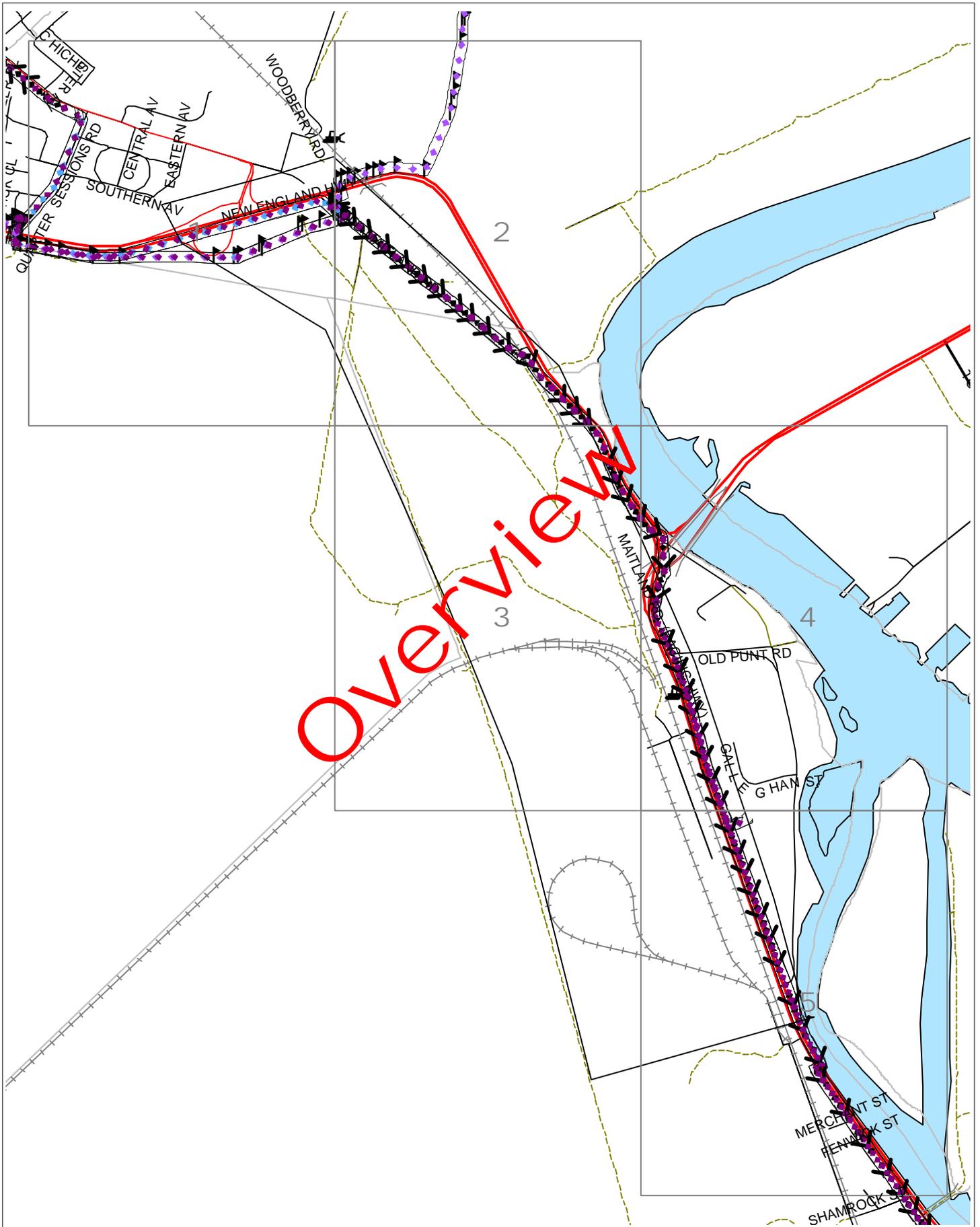
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C MAYF 102:201/J1-300 300/0.90 PIQL (BA)
C1:M1-200 200 PLUT <(CA)
F MAYF 1001:REY-BJ1-120 120F-SMOF FNPEHU/STD (DB)
C3002:AW-AX1-12 12F-SMOF FNPEHU/STD <(DB)
1XP35 SUBDUCTS (DB)
AAPT476M02 05/2017 (DB1)
C3:M1-100 100 PLUT MBHU <(FA)
3XP35 SUBDUCTS (FA)
F NLTN 2003:REY-AJ1-100 100F-SMOF FNPEHU (FA2)
F MAYF 107:REA-REB1-36 36F-SMOF FNPEHU/STD (FA1)
F MAYF 104:EU-EV1-28 28F-SMOF FNPEHU (FA1)

FOREMAN'S OFFICE
FY2

MAN OFFICE
FY1





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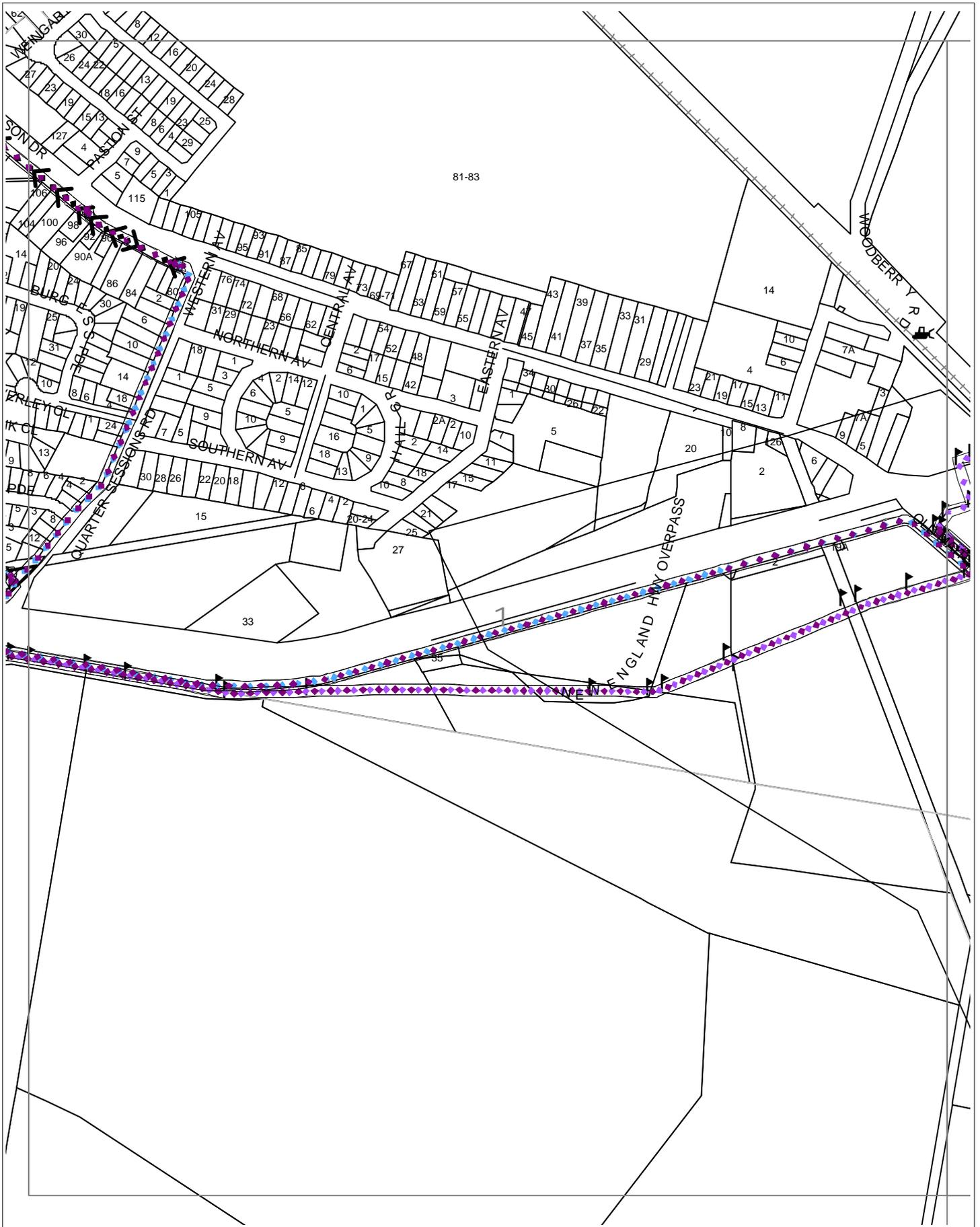
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 For urgent onsite assistance contact 1800 505 777
 Optus Limited ACN 052 833 208





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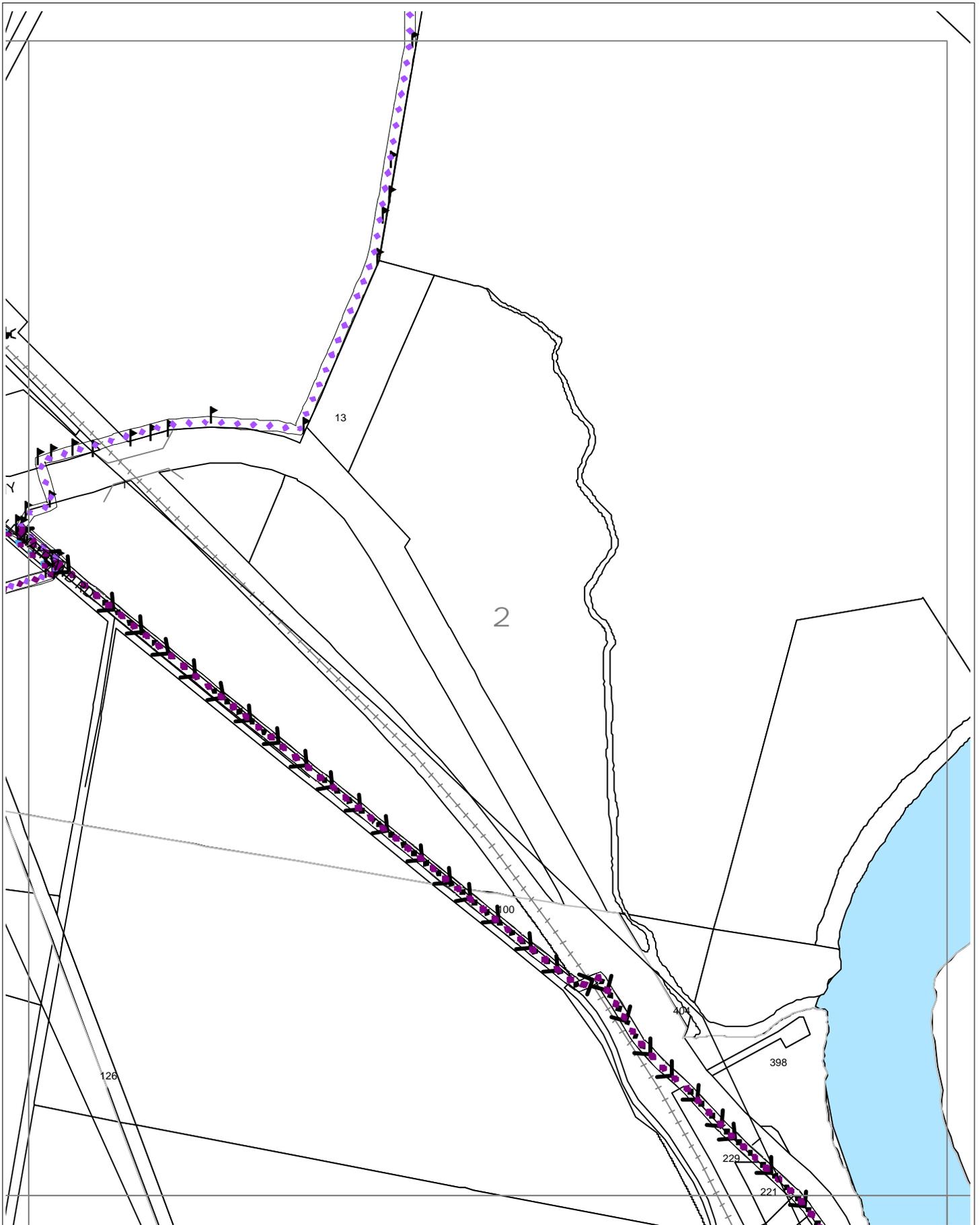
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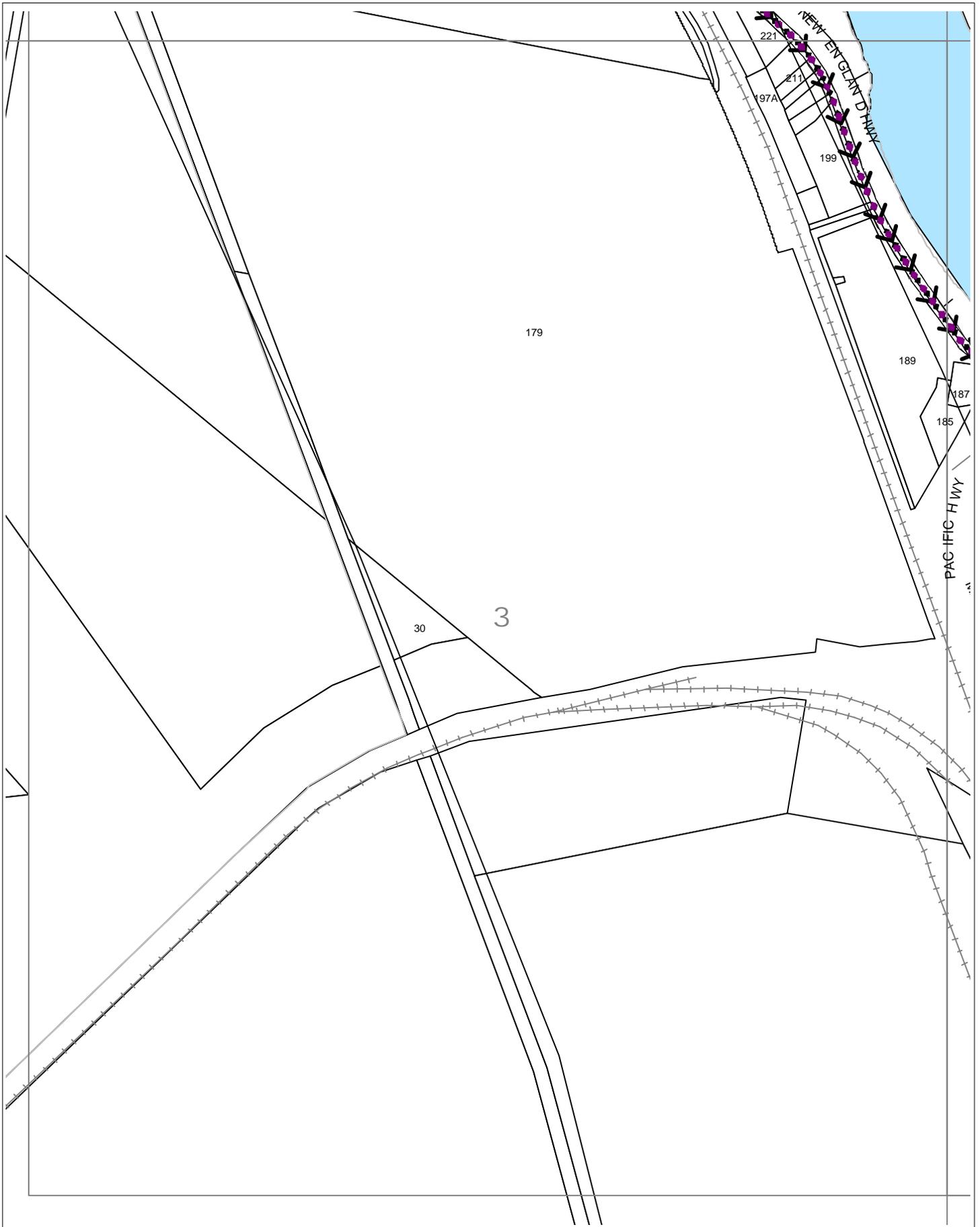
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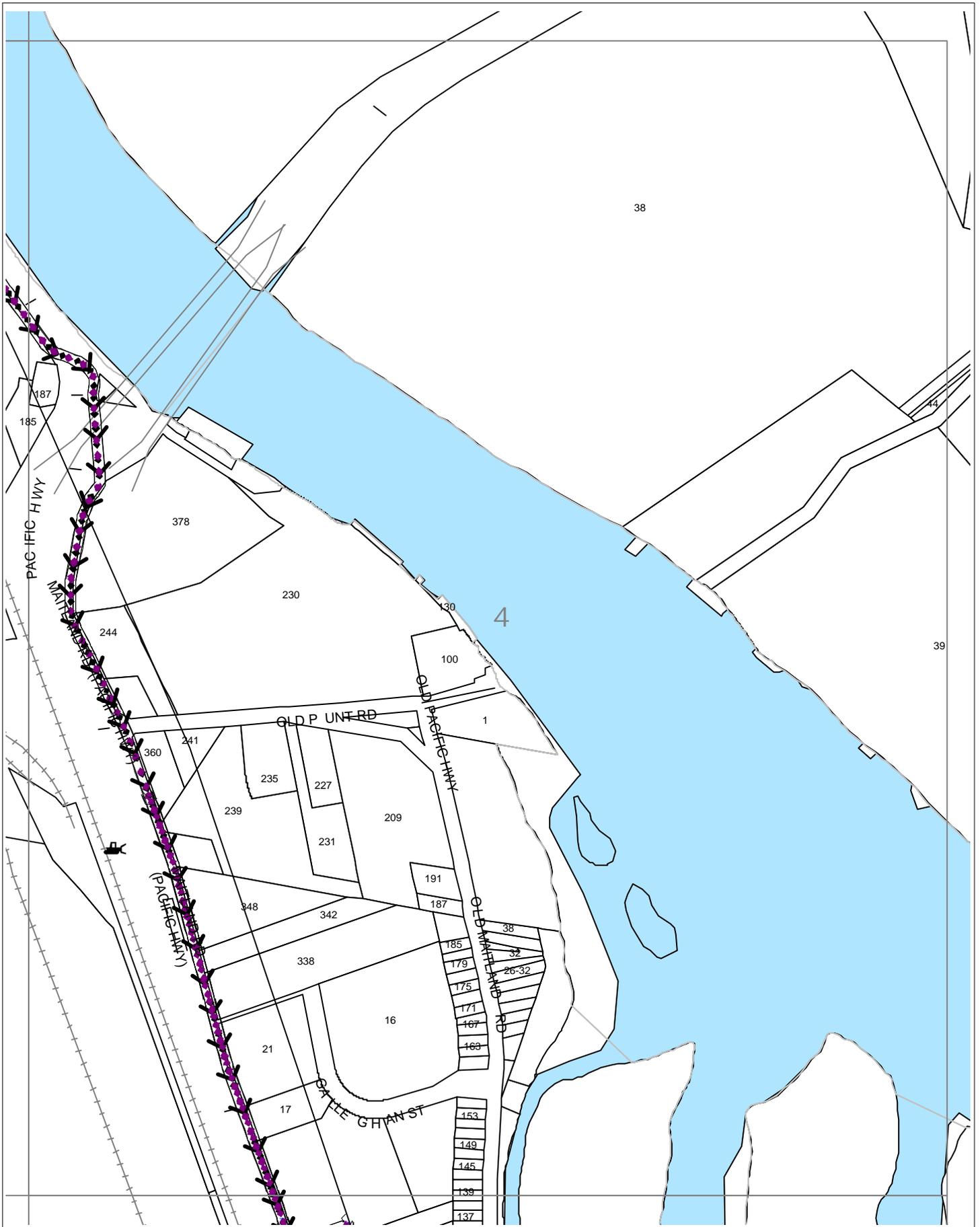
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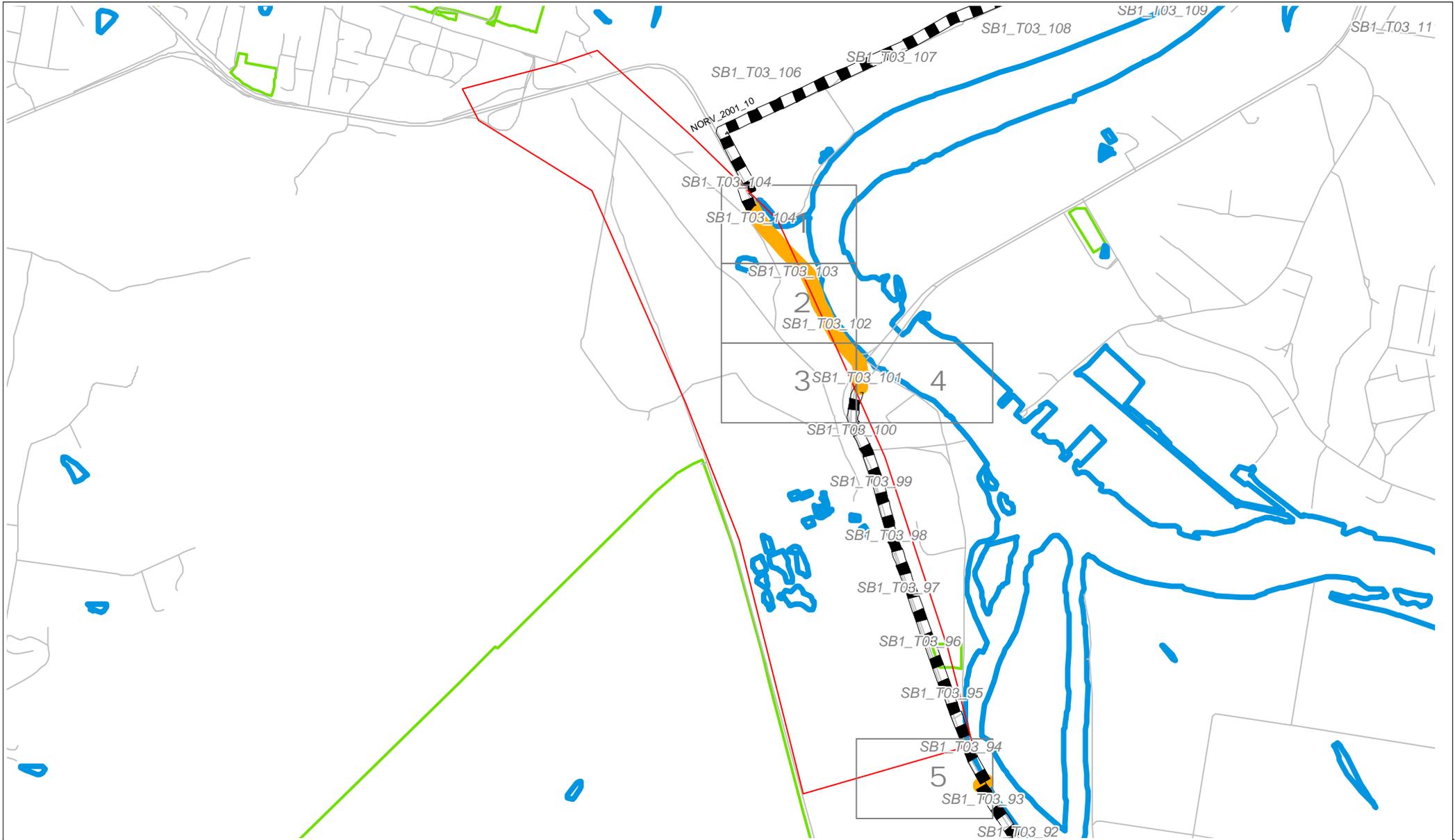
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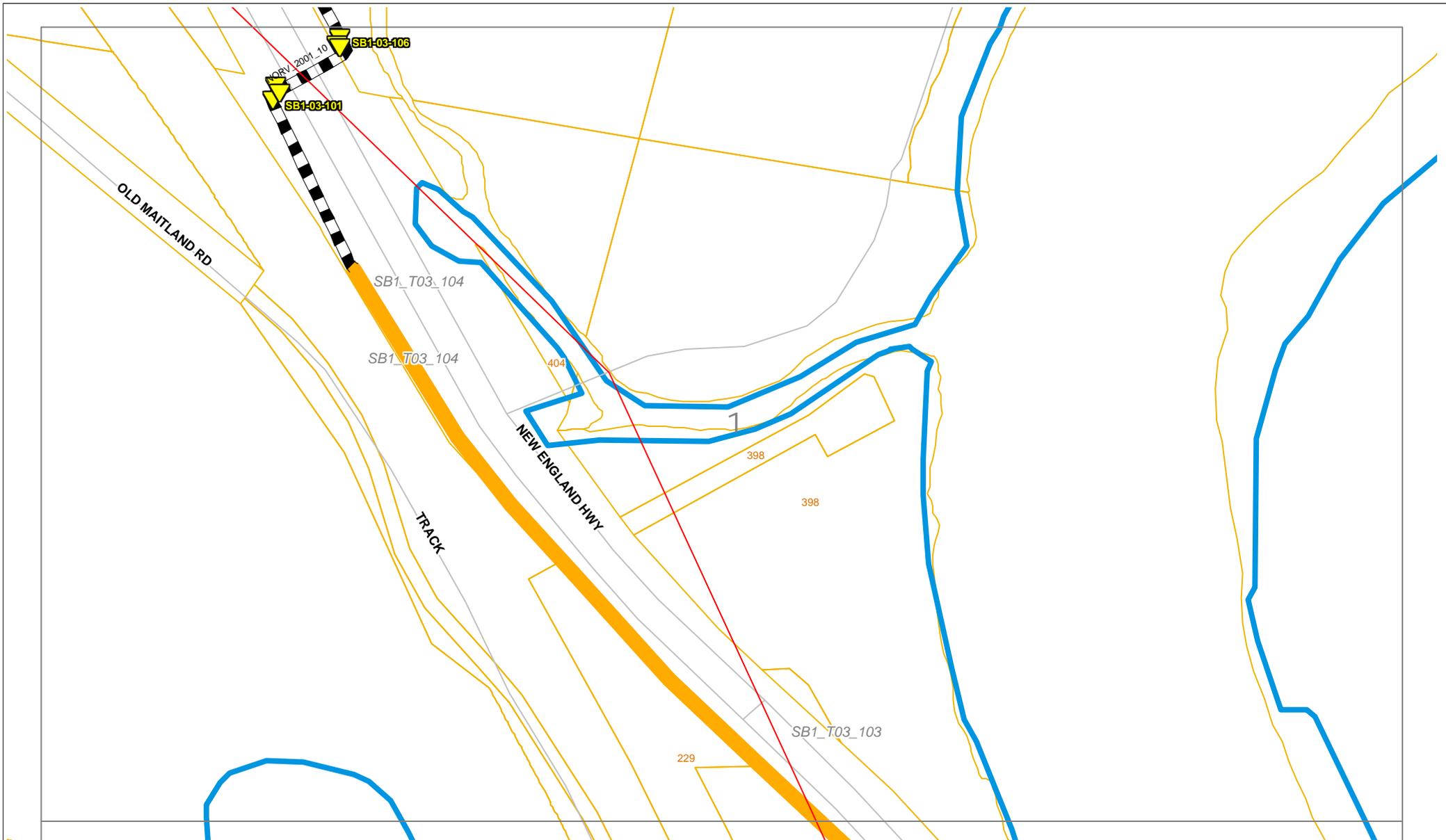
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LEGEND

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	Line		3rd Party Duct
	Area		Marker Post



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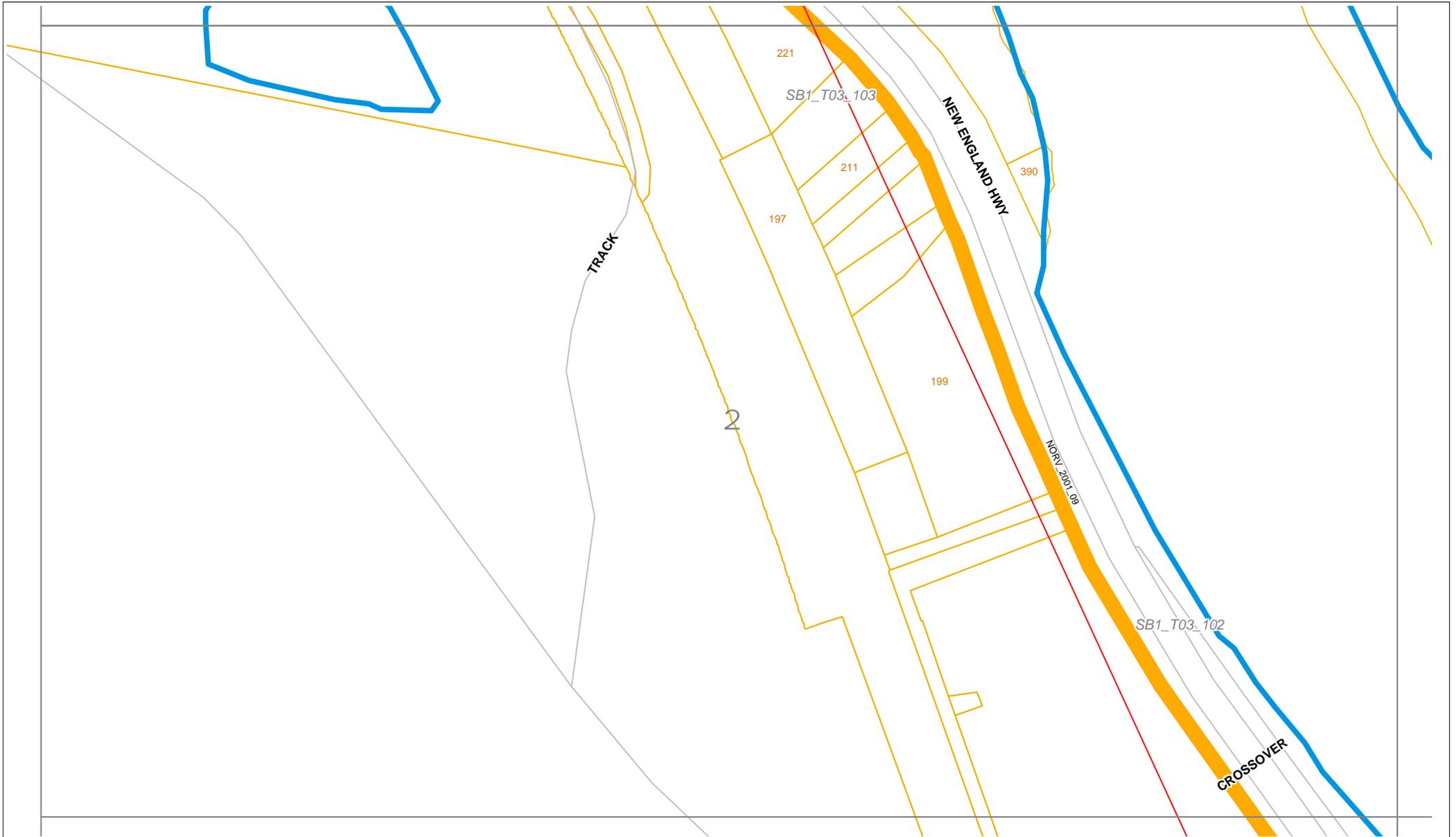
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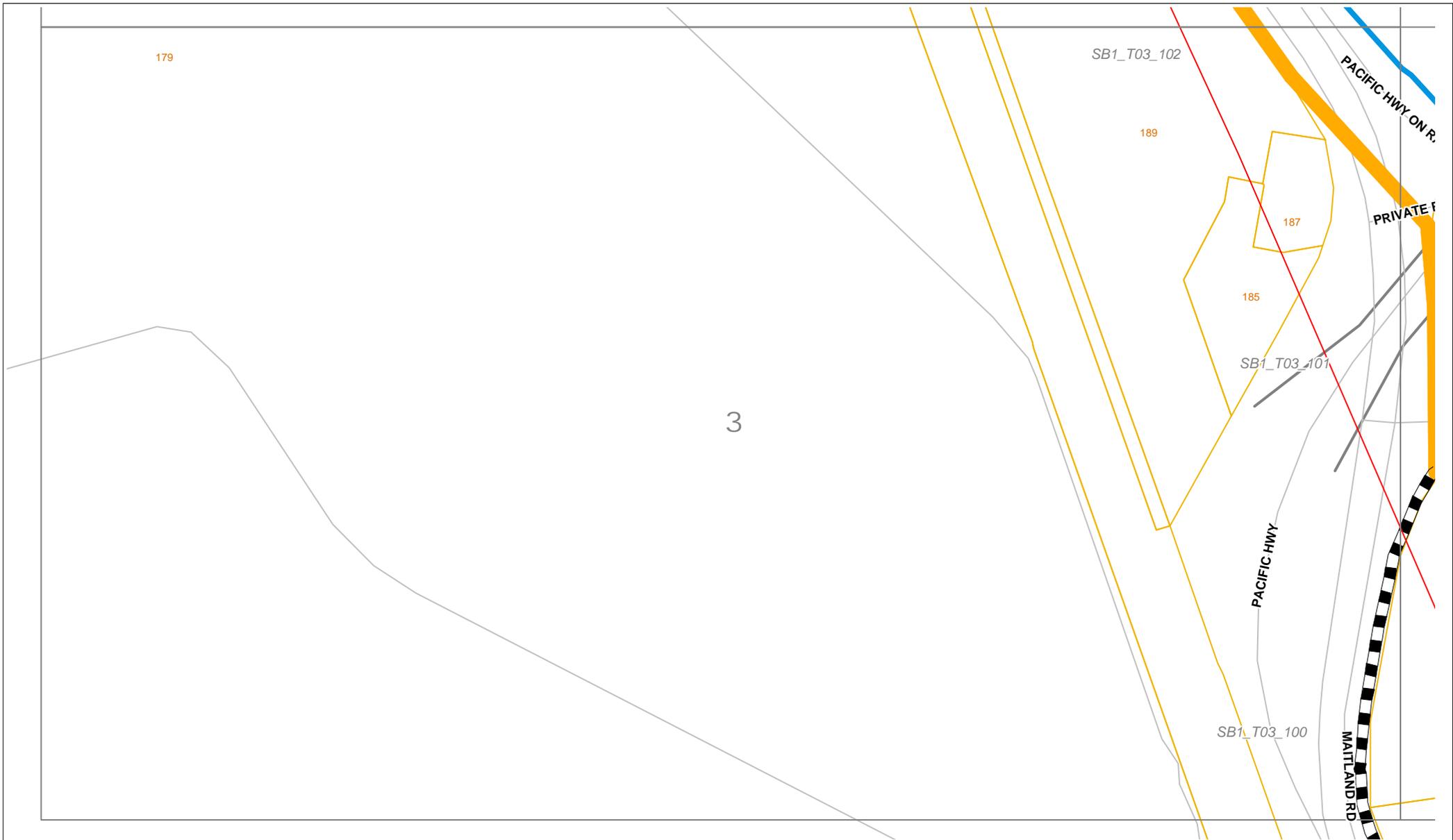
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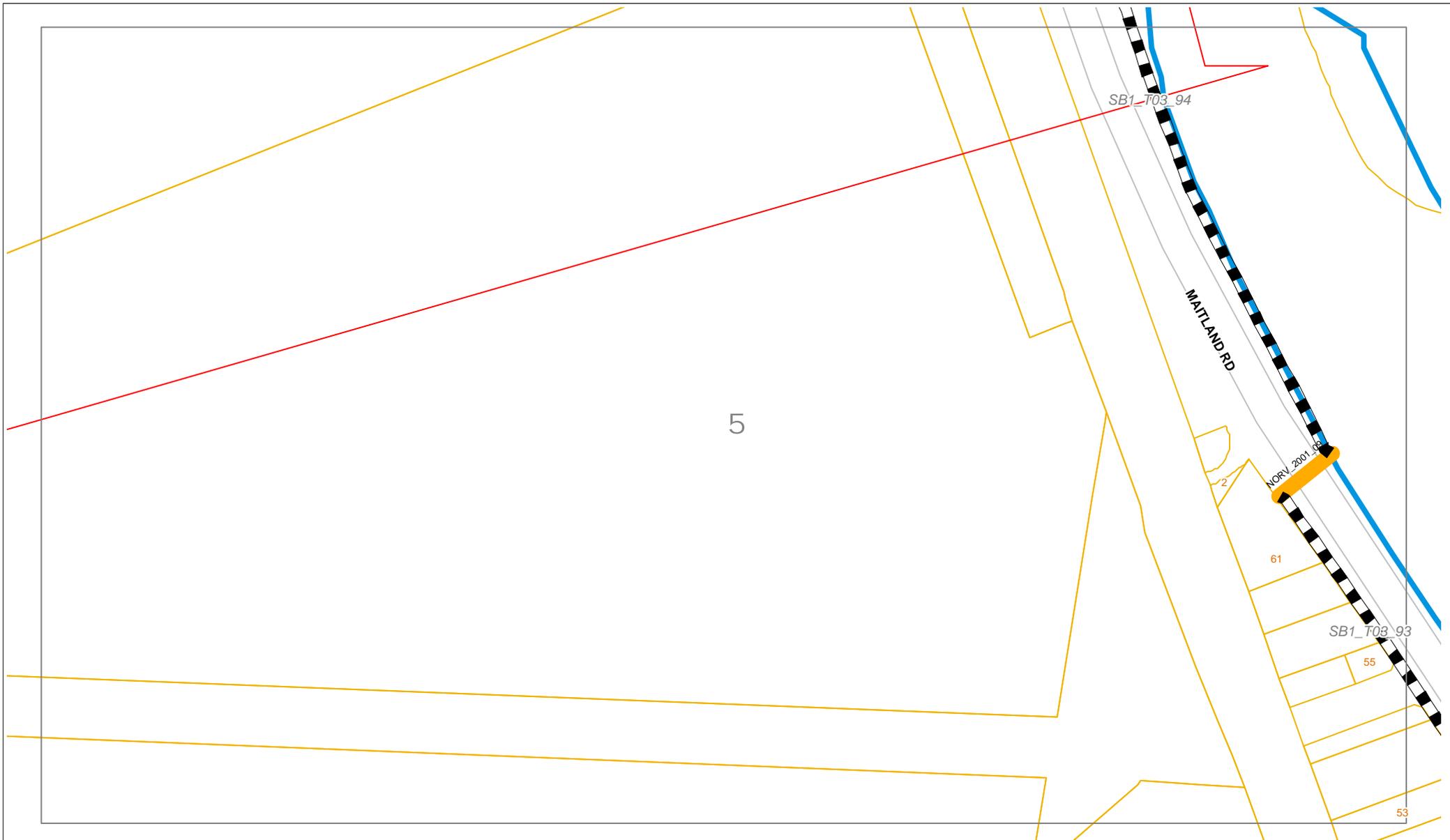
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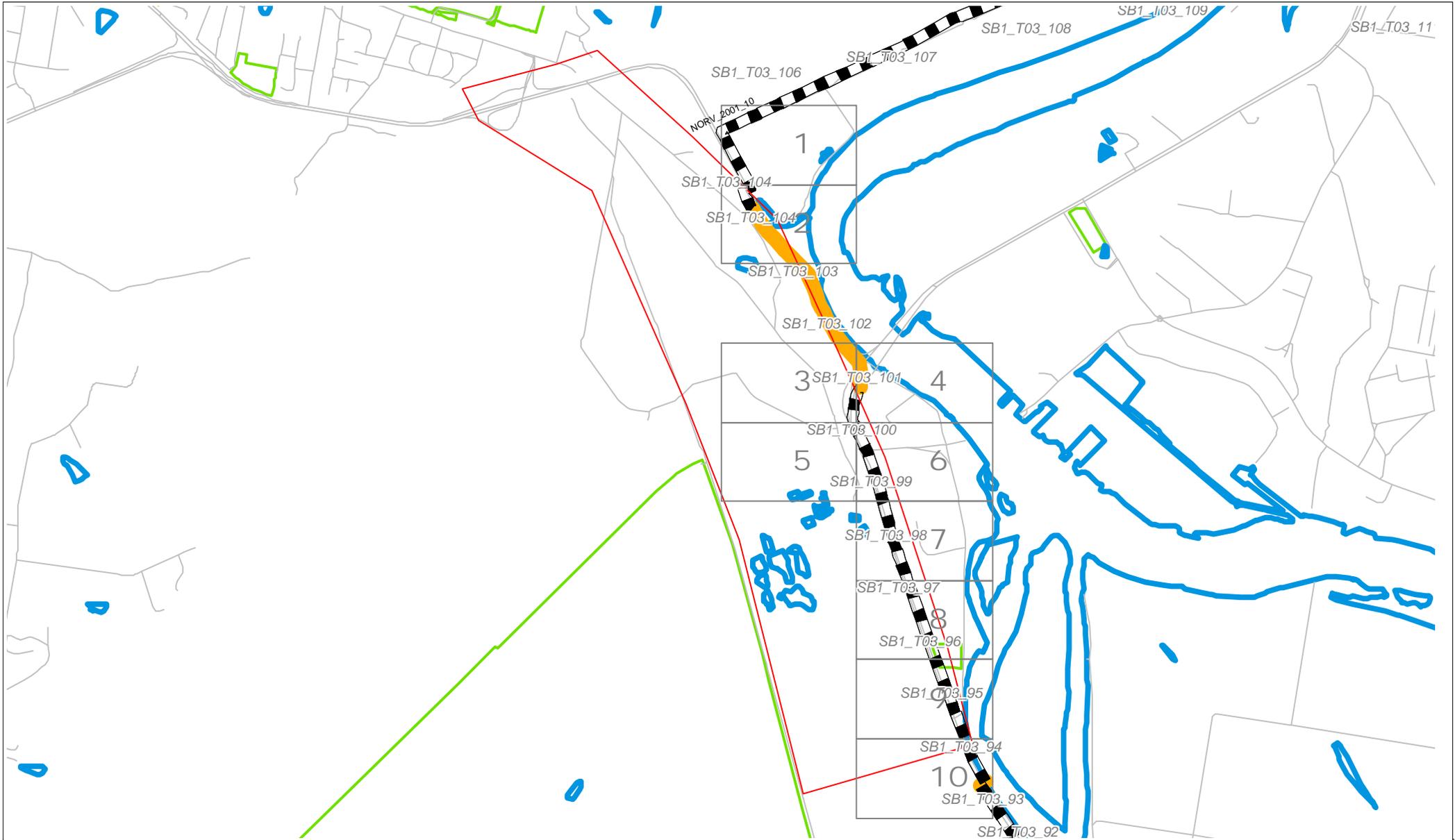
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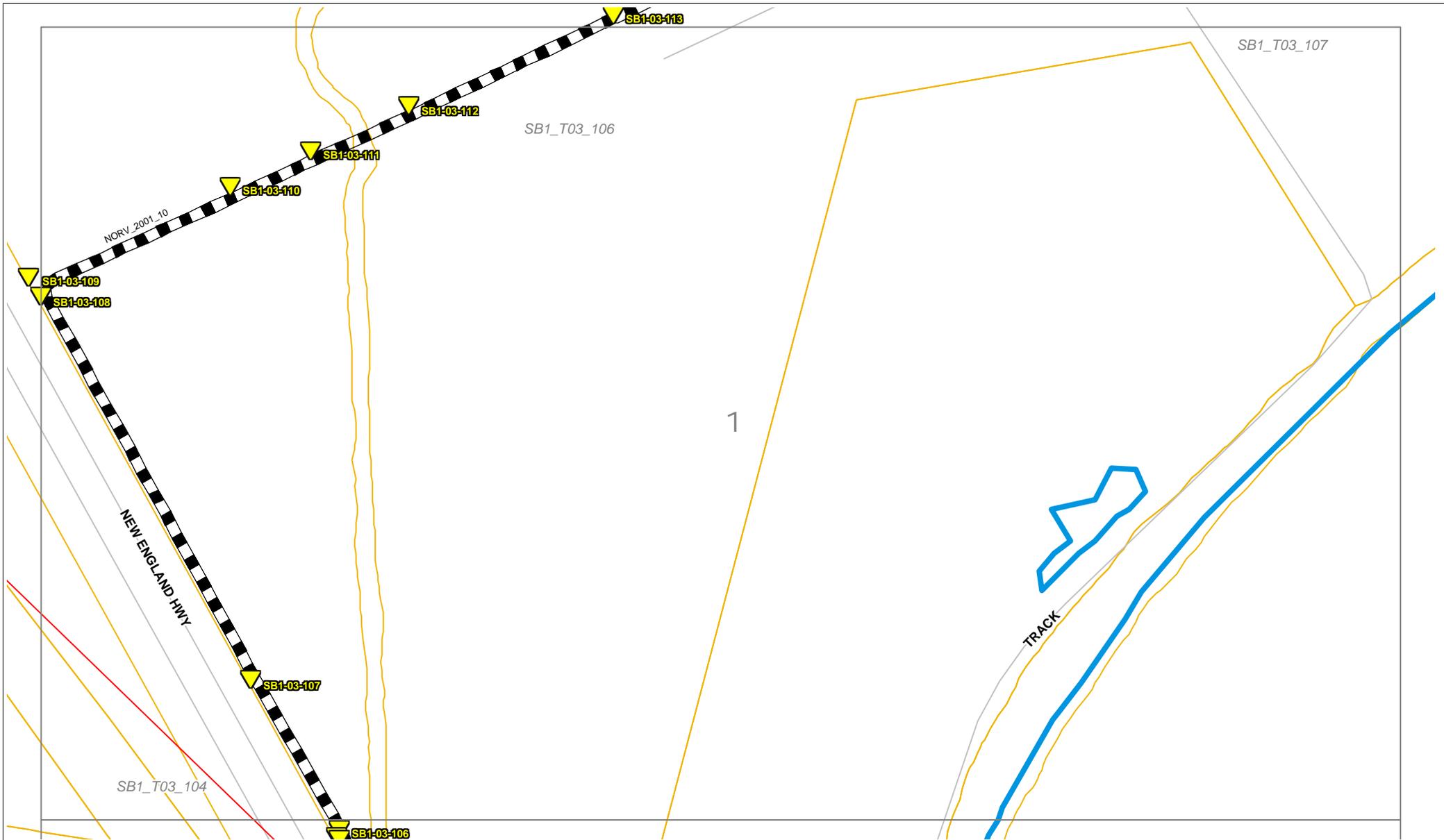
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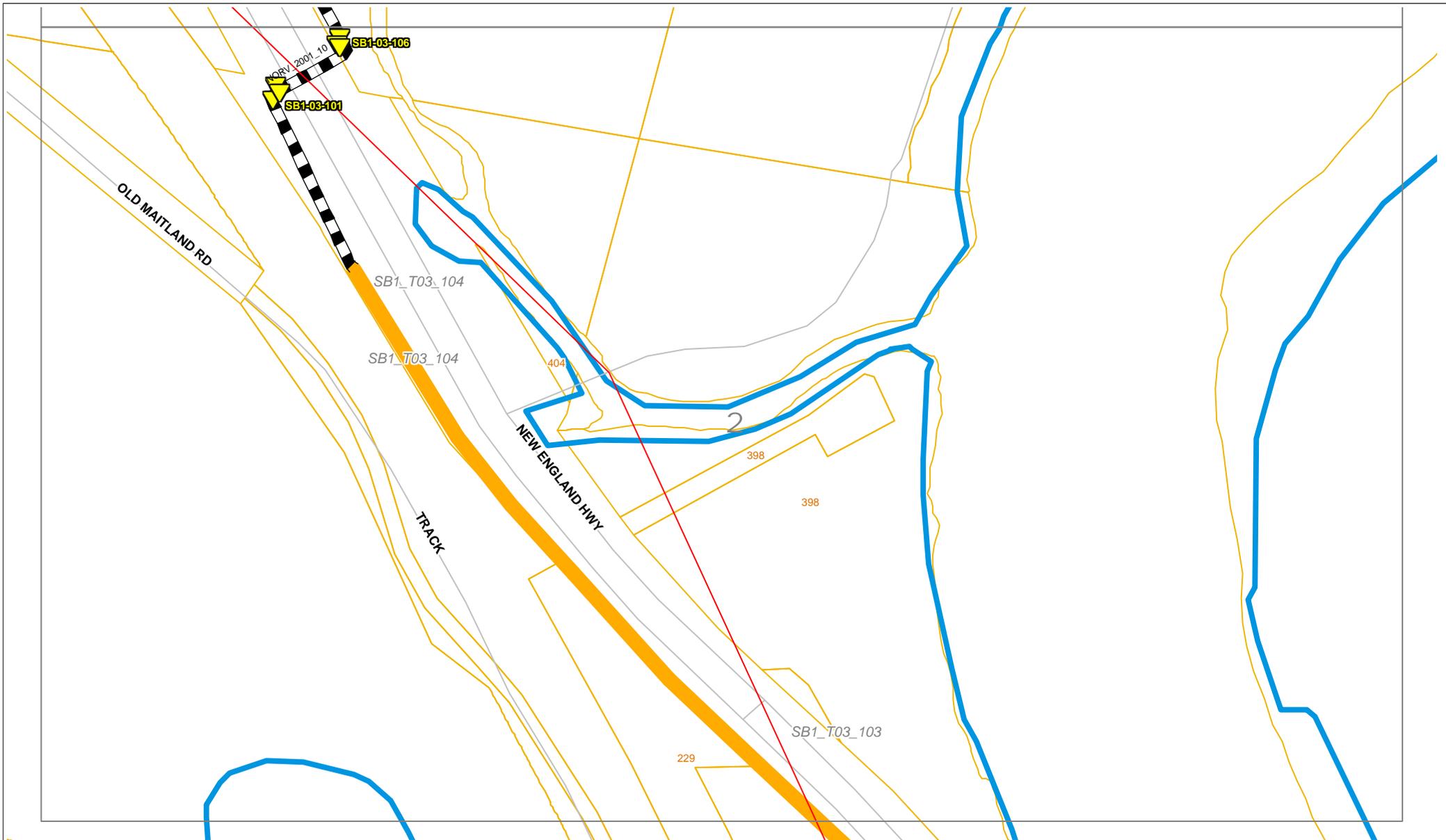
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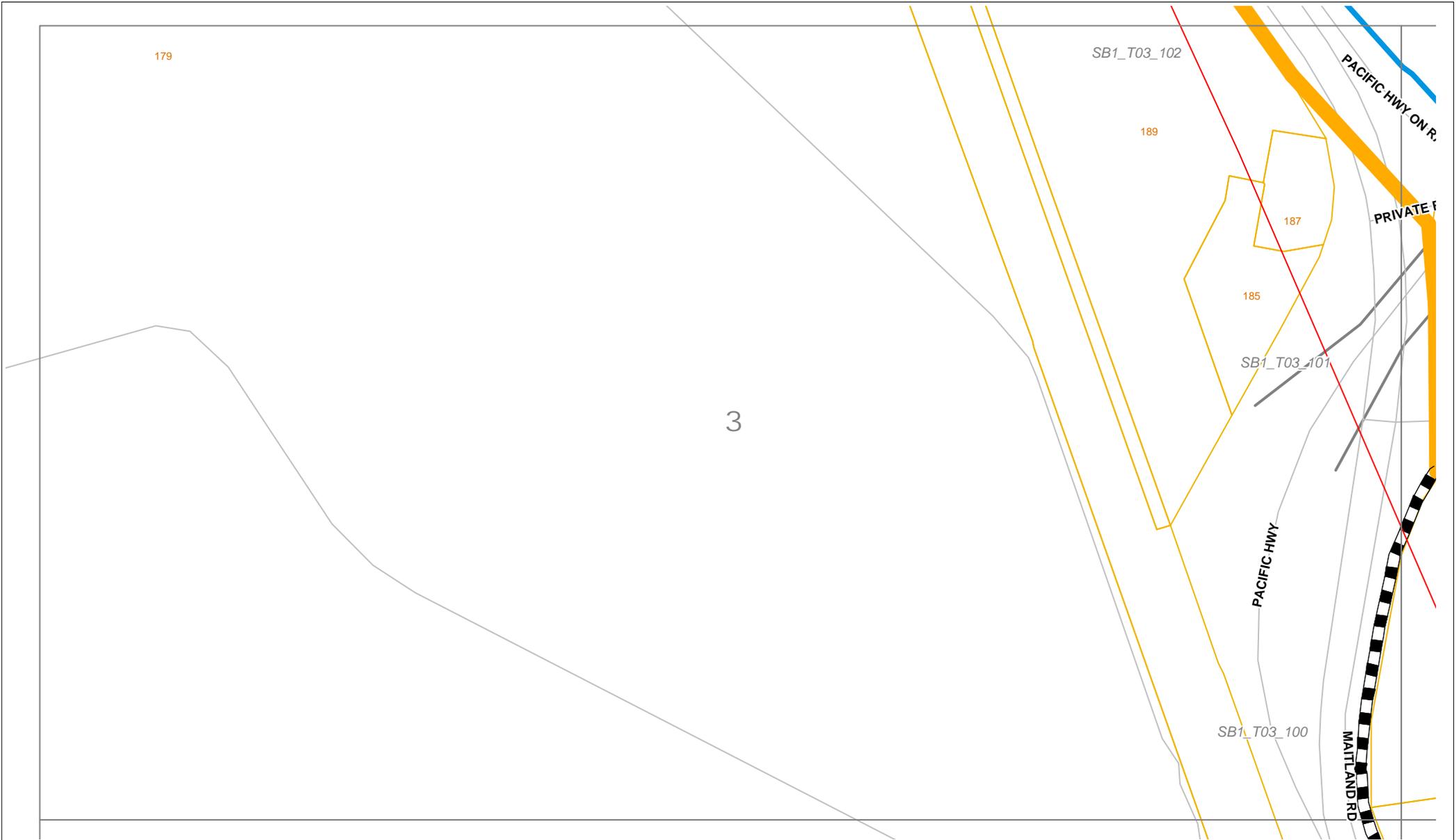
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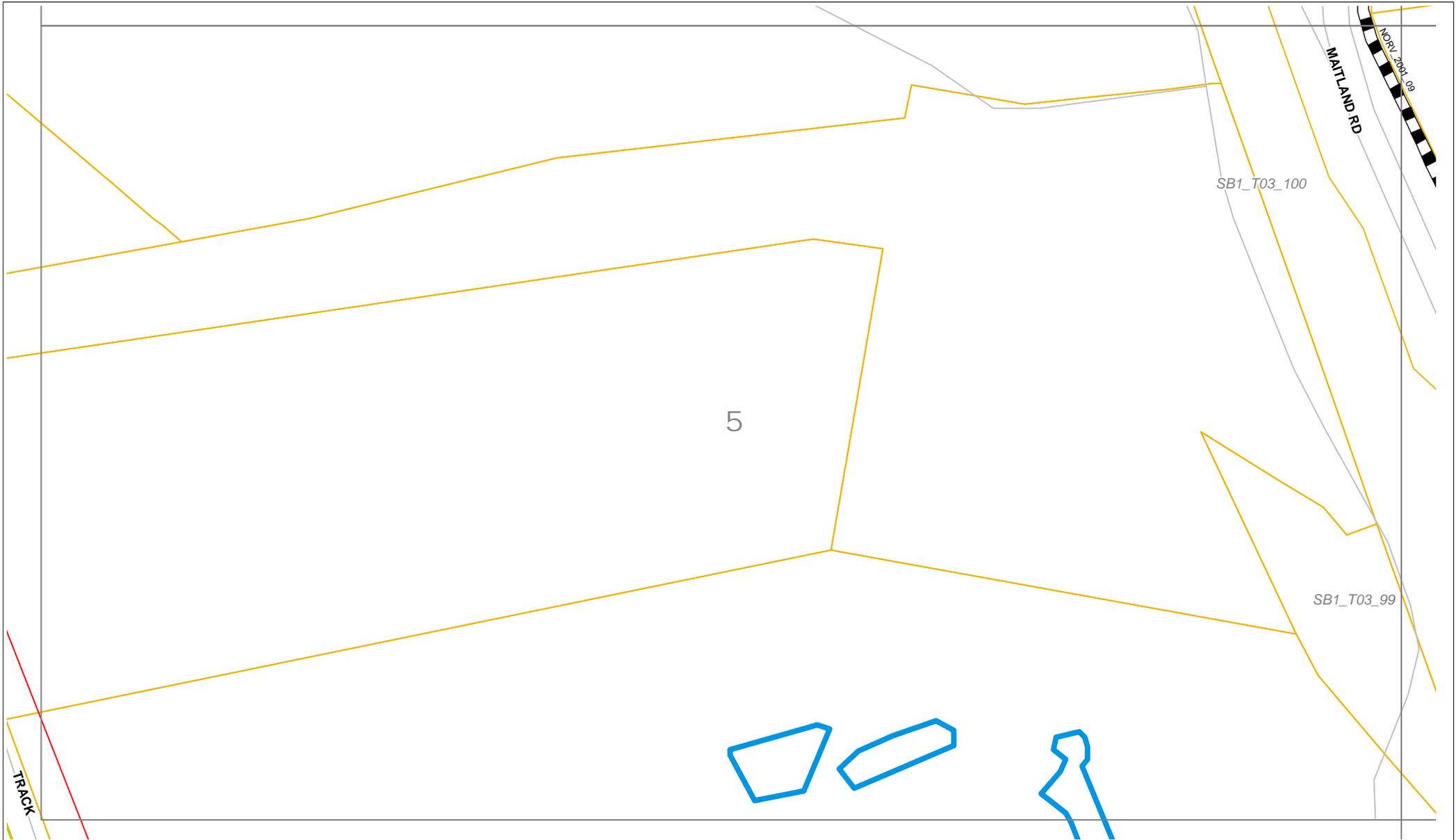
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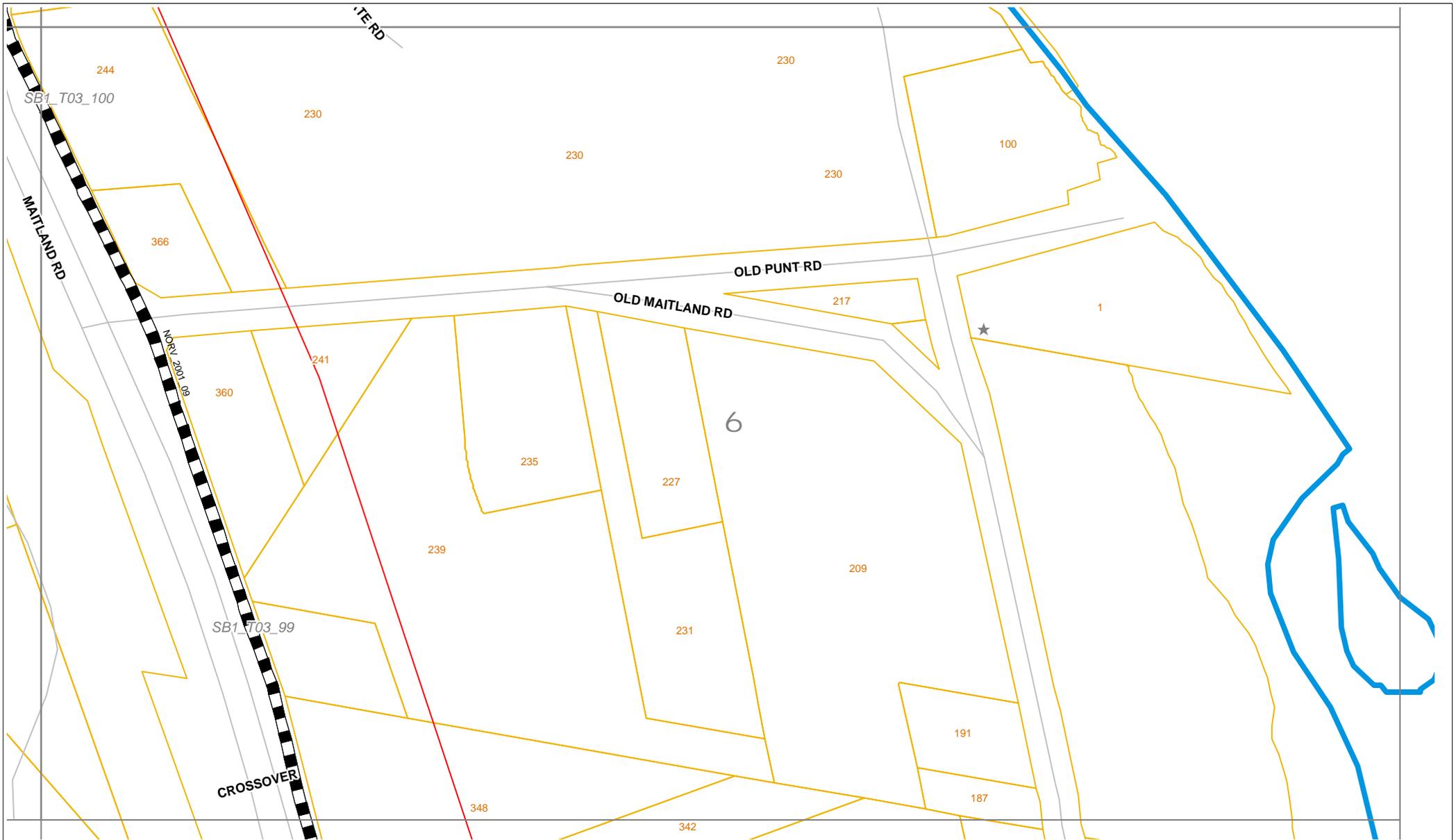
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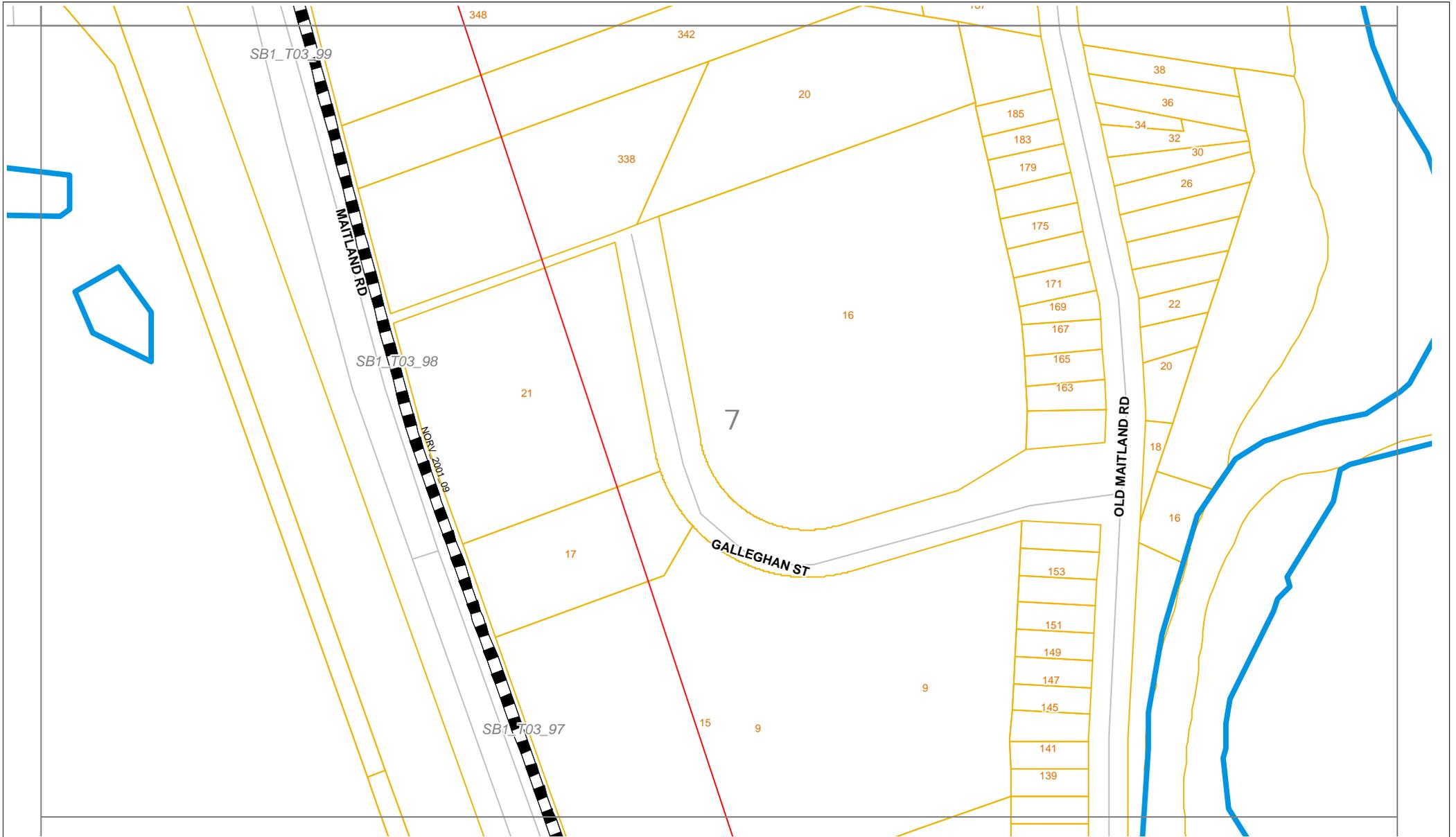
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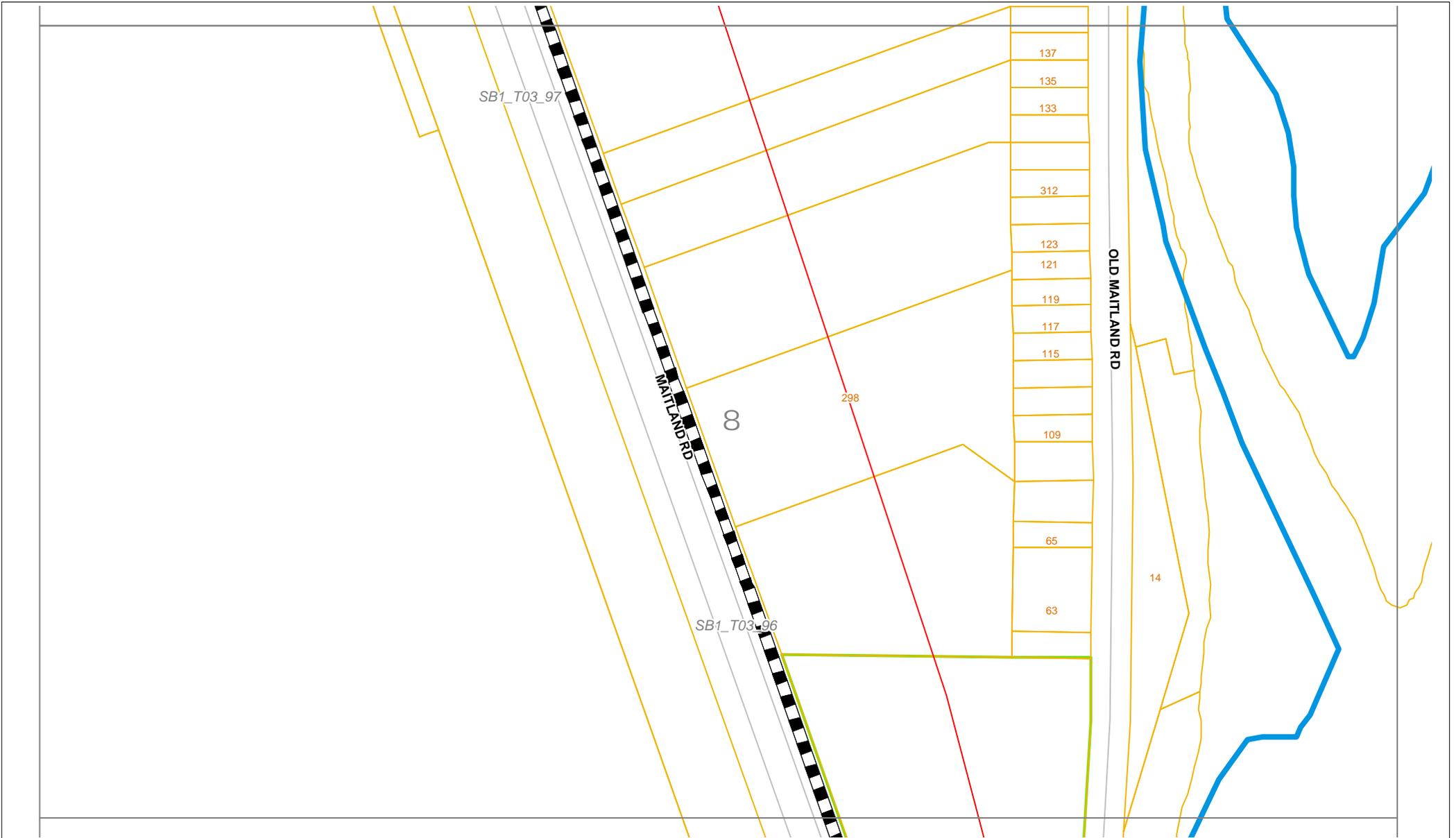
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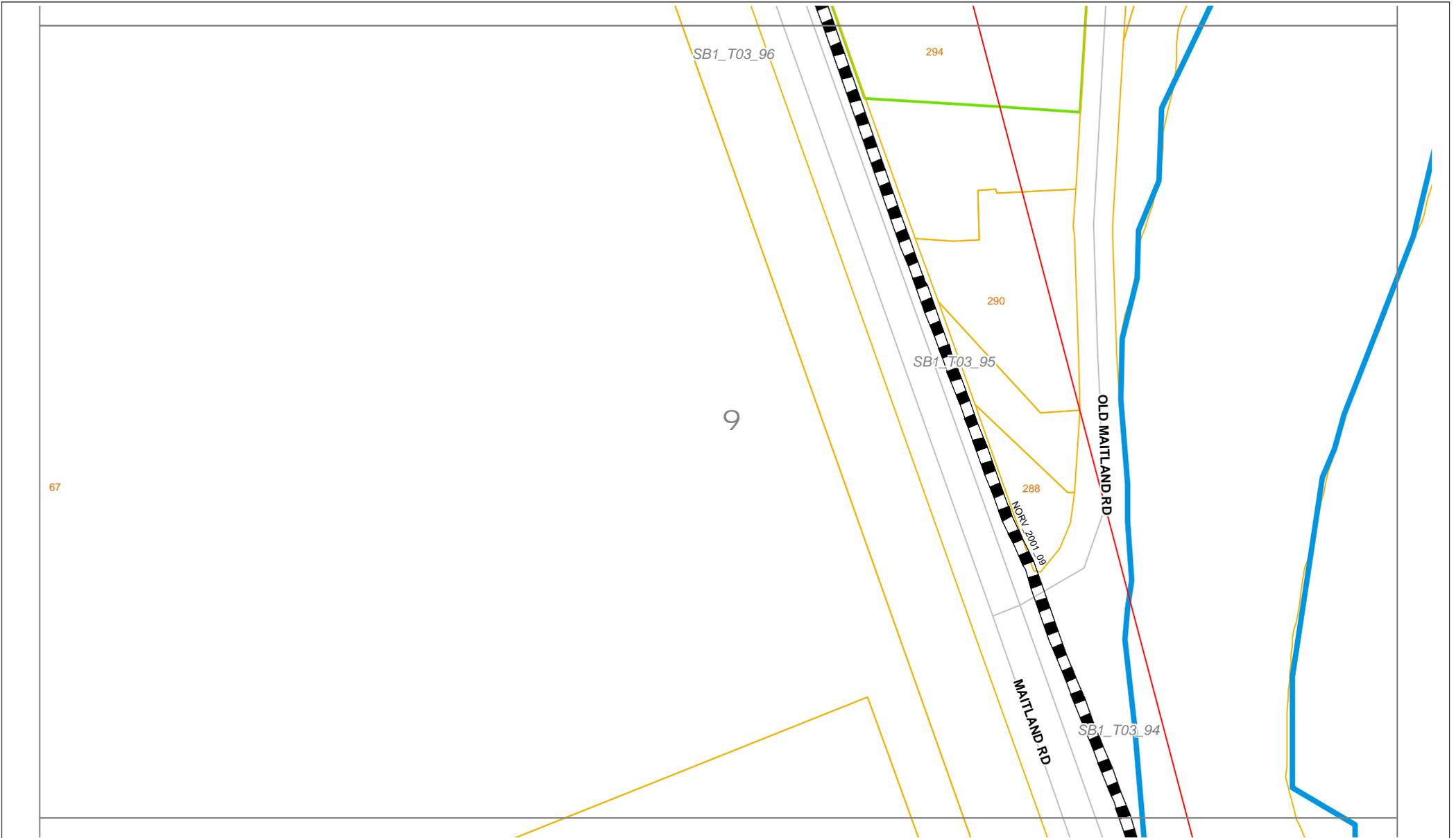
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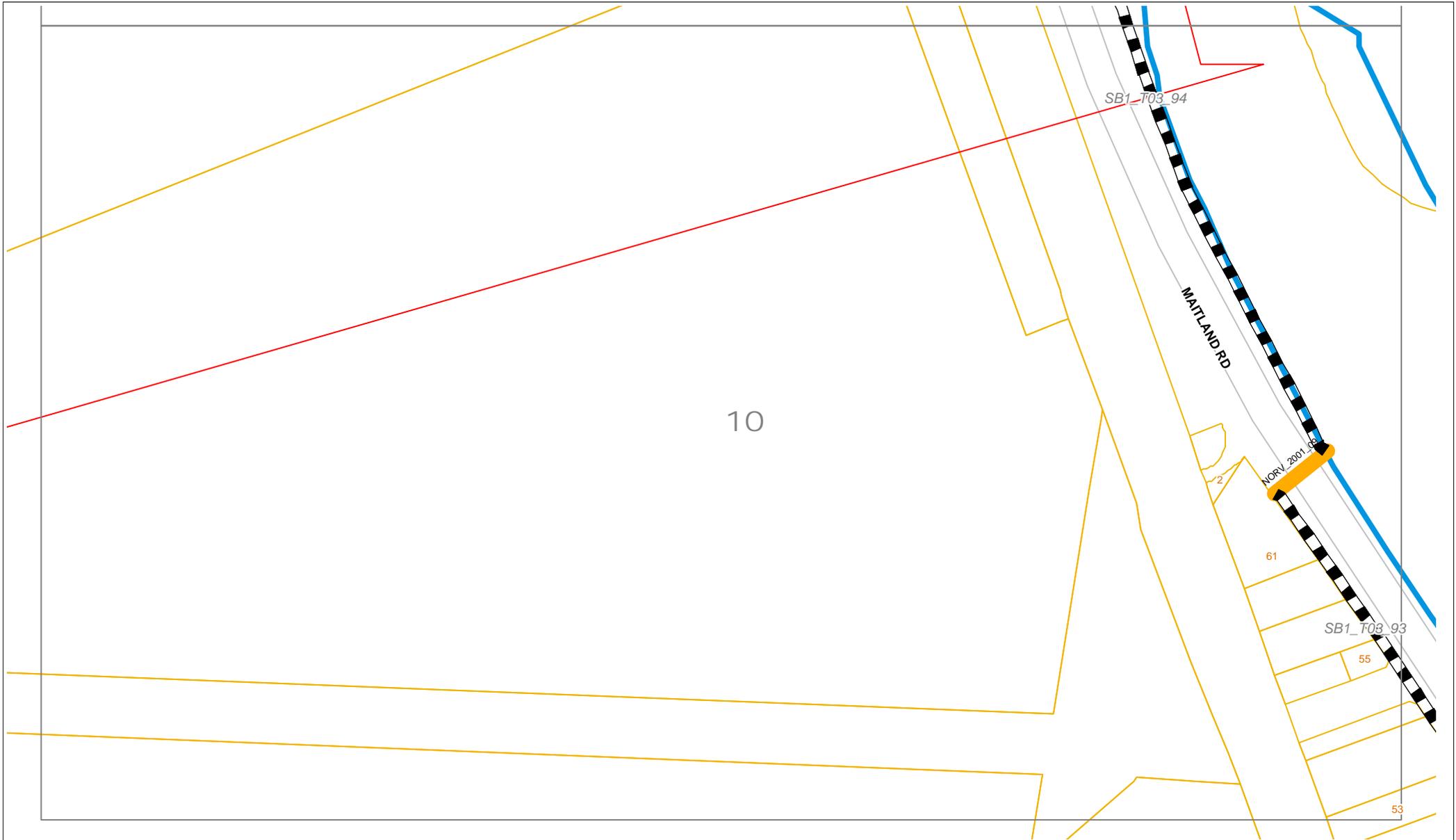
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LEGEND

- | Digsite | | Assets | |
|---------|-------|--------|----------------|
| | Point | | Cable |
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| | Area | | Marker Post |

Reading Ausgrid Plans

COMN0119

1 Property Lines

"property line" (PL), sometimes referred to as **"building line" (BL)**, is the standard dimensioning reference point on all Ausgrid plans and represents property boundaries.

Typically the PL is the boundary between private property and local council's footpath area or nature reserve. Most residential fences and office blocks are erected along the PL.

"kerb line" (KL) is less frequently referred to on Ausgrid plans, and where used will be identified clearly as KL.

Numbers listed within property boundaries should correspond to recognised "street numbers".

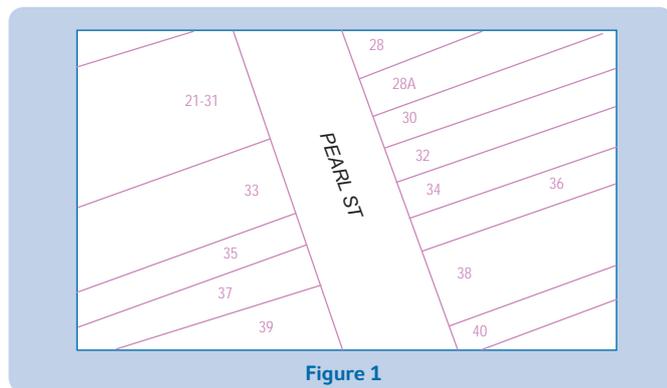


Figure 1

2 Datum References

"datum references" identify distances (in metres) from significant features (such as corners of property boundaries) to reference points such as Ausgrid assets (eg: **"conduits"**, **"cables"**, **"joints"**).

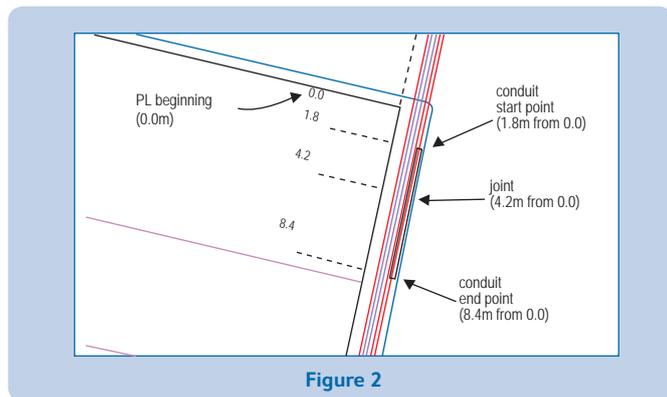


Figure 2

3 Cross Sections

"cross sections" displayed on Ausgrid plans detail information relating to the relative position (ie: distance from the **"property line"**, and the depth of **"cover"**) of Ausgrid assets.

"cover" is a term used to refer to the depth of cables underground.

A **"cross section"** leader line will be drawn indicating the location of the displayed **"cable"** or **"conduit"** information on Ausgrid plans.

The distance from **"property line"** (in metres) and depth of **"cover"** (in metres) references are displayed as; ie: 0.6 metres from PL and 0.5 metres underground).

Where distance and cover are not recorded, they will be clearly marked as **"NR"**.

NOTE: Distance and cover where indicated may be different to the actual position of the cables (eg: fill may have been placed at site that has changed the ground level).

On some A3 plans the **"cross sections"** may also be shown with a specific number (eg: **FC1**). This number will have an arrow pointing in the direction you will need to look for the cross-section detail (refer to figures 3 and 4).

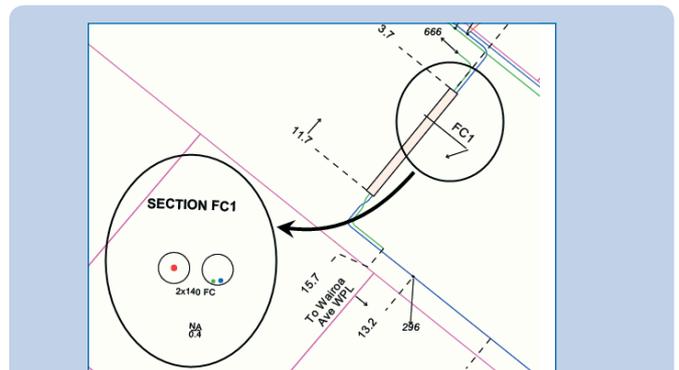


Figure 3

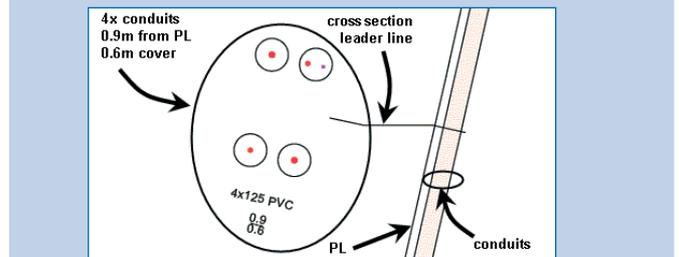


Figure 4

4 Cable Joints and Joint Reports

"cable joints" (numbered individually) and **"joint reports"** (attached to Ausgrid plans) can provide information relating to the relative position of Ausgrid assets, distance from the **"property line"** (in metres), and the depth of **"cover"** (in metres).

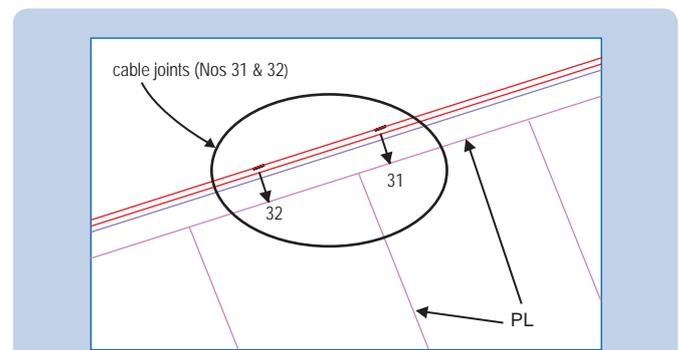


Figure 5

JOINT DETAIL REPORT			
No.	Bk-Pg	PI/CvT	Joint Location
31	524-24	1.14/0.69	61.7 E of Pearl Lane EPL
32	524-24	1.14/0.69	57.6 E of Pearl Lane EPL

joint location
(61.7m east of Pearl Lane East PL)

joint position
(1.14m from PL, 0.69 cover)

Figure 6

5 Cross Section Detail Boxes

"cross section" detail boxes on the sides of an Ausgrid plan are used when there is insufficient room to display "cable" and/or "conduit" information on the Ausgrid plan.

Ausgrid plans (refer to figure 7) are bordered by numeric identifiers along the top and bottom borders and alpha identifiers along the side borders.

A "cross section" leader line and annotation is drawn on the Ausgrid plan for a reference to "cable" and/or "conduit" information in the "cross section" detail boxes.

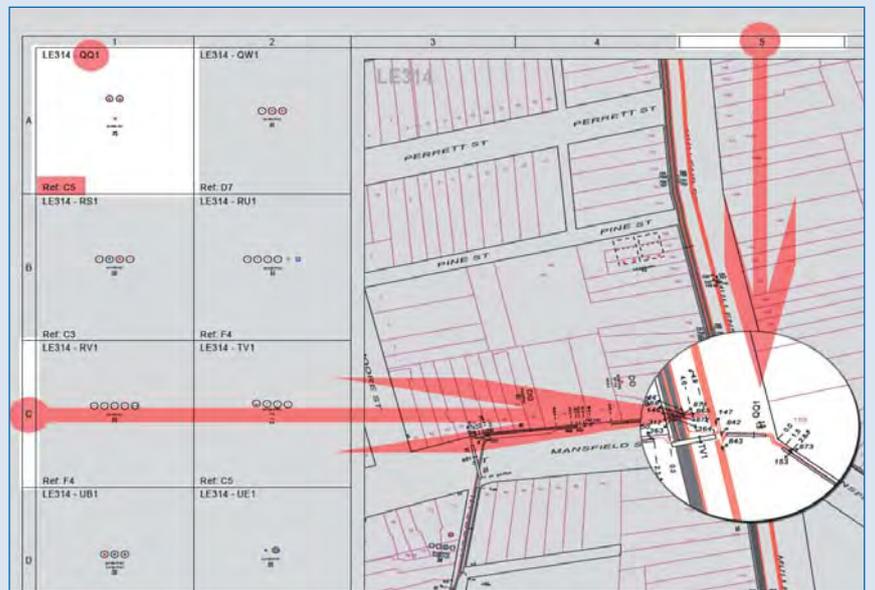


Figure 7

6 Pits

Underground "pits" are numbered on Ausgrid plans, positioned relative to the "property line" (PL), and can be found on either the footpath (nature strip) or the road (see figure 8).

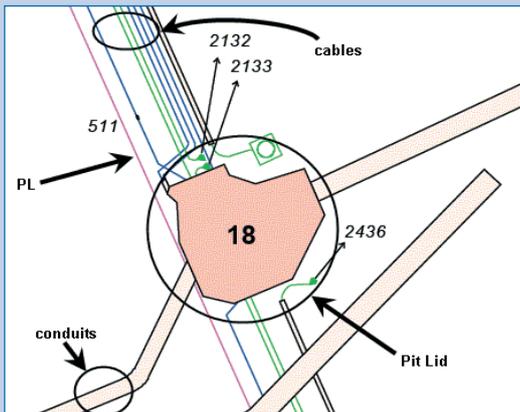


Figure 8

7 Proposal Areas

There are areas where underground work may have been issued for construction by Ausgrid, but details are not yet completely displayed on Ausgrid plans. In such cases a shaded "proposal area" is displayed on the Ausgrid plan, indicating underground work may have commenced in the vicinity but is not yet complete.

In some instances cables and other assets within the shaded "proposal area" will be shown in a bright magenta colour, indicating that the proposed new work displayed within the shaded area is based on initial planning documentation.

In other instances the shaded "proposal area" itself may be shown as a blue colour, indicating that the new work displayed within the shaded area on the Ausgrid plan is yet to include details regarding final depths and dimensioning.

NOTE: In cases where these shaded "proposal areas" are displayed on Ausgrid plans.

"Ausgrid's design plans showing the proposed position of its underground cables, overhead lines and structures have been

prepared solely for Ausgrid's own planning use. They show the proposed position of such underground cables, overhead lines and structures as proposed at the time of planning and have not necessarily been corrected to take into account any changes to road widths, road levels, fences and buildings subsequent to proposed installation. Actual installations may vary from proposed installations as it may be necessary to take account of unforeseen above ground or subterranean constructions. Therefore, Ausgrid does not hold out that the design plans show more than the proposed presence or absence of its underground cables, overhead lines and structures in the street and will accept no liability for inaccuracies in the information shown on such design plans from any cause whatsoever."

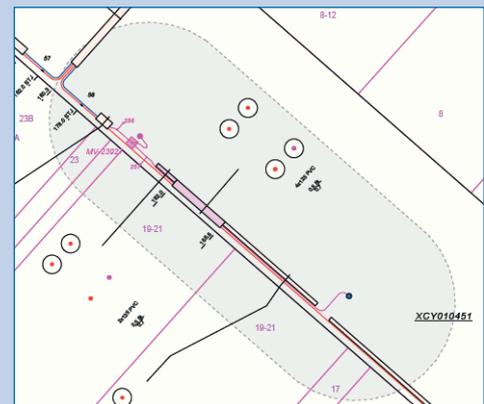


Figure 9

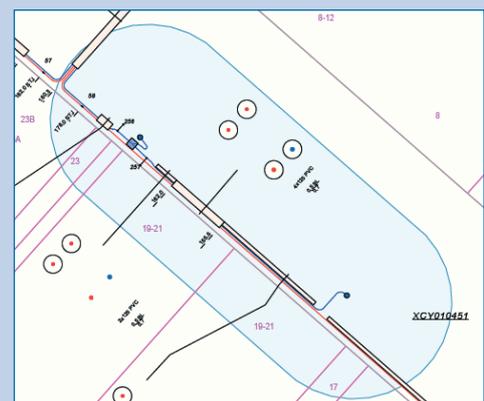


Figure 10

Any further information regarding information displayed for “proposal areas” can be obtained by contacting the Ausgrid DBYD office at the number indicated on the response to your DBYD enquiry for further information.

If you notice an **orange shaded area** on your plan, DO NOT PROCEED with excavation. You will need to contact the Ausgrid DBYD office at the number indicated on the response to your DBYD enquiry and arrange for assistance (see figure 11).

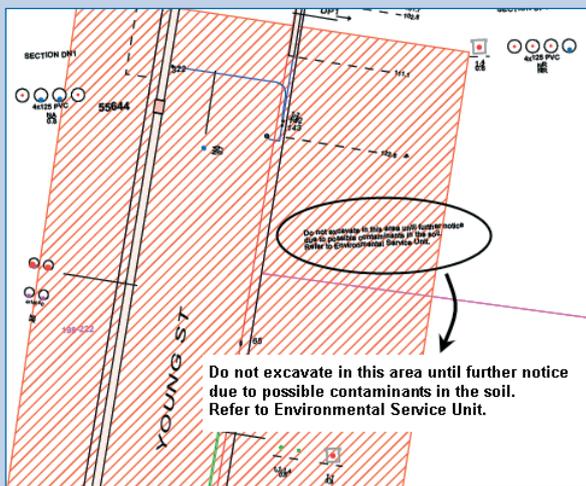


Figure 11

8 Ausgrid (ISG) Map Grid

The pale grey line indicates the 1:1000 Ausgrid (ISG) map grid border.

The pale grey annotation located in the corners of the Ausgrid plan window, indicates the 1:1000 Ausgrid (ISG) map grid reference.

The 1:1000 Ausgrid (ISG) map grid border and reference on Ausgrid plans should be used when reading the “joint report” (see part 4 of this document for more detail) to accurately locate underground cables.

The buffer area shown on the plan should relate to the area requested on the original Dial Before you Dig request.

The grid index box can be used for reference where necessary (located in the bottom right corner of the Ausgrid plans), and will also indicate the buffer area shown on the plan.

9 Ausgrid “Distribution” and “Transmission” Plans

The Ausgrid plans supplied may identify both “distribution” and “transmission” voltage assets for the area defined in the DBYD request.

In the Sydney region, the Ausgrid plans are separately labelled as “Distribution – nnnnnnn” and “Transmission – nnnnnnn”, where “nnnnnnn” refers to the DBYD sequence number quoted.

In the Hunter region, the Ausgrid plans show combined “distribution” and “transmission” voltage assets, and are clearly labelled as “Distr + Trans – nnnnnnn” where “nnnnnnn” refers to the DBYD sequence number.

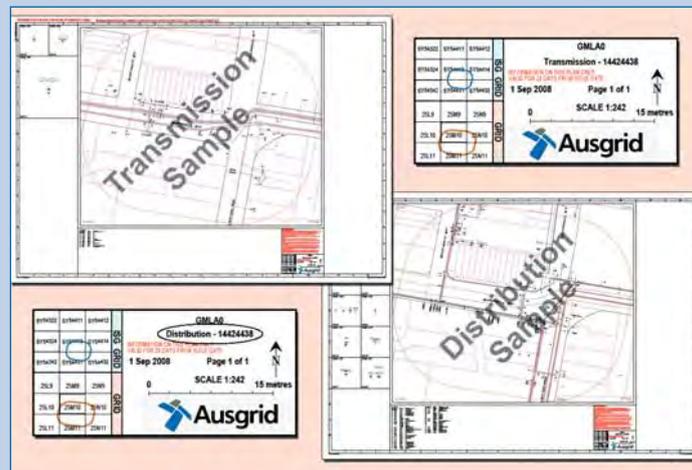


Figure 12

In the Hunter region, some DBYD requests are covered by PENGUIN grid references. In such cases, the Ausgrid Plans show the grid quoted with a cross-reference to a corresponding Ausgrid (ISG) map grid (eg: PENGUIN 136B3 – DP711, where DP711 is the Ausgrid (ISG) grid) to optimise the legibility of plans due to PENGUIN grid scale.

Some Hunter plans may have transmission cables in the area, when these cables are present there will be a warning printed at the top of the plan supplied:

WARNING: If there is work in the vicinity of transmission cables, Ausgrid must be contacted at least two weeks before the work is due to commence (See Clause 2.3).

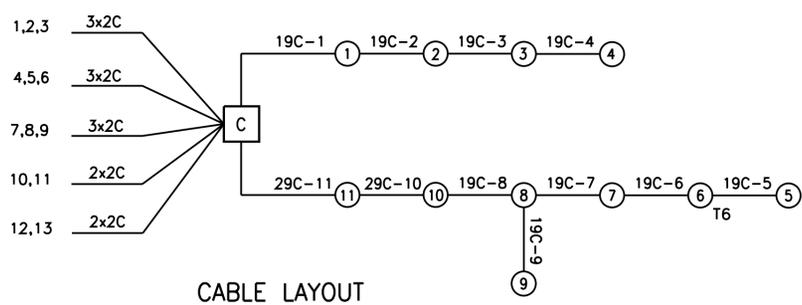
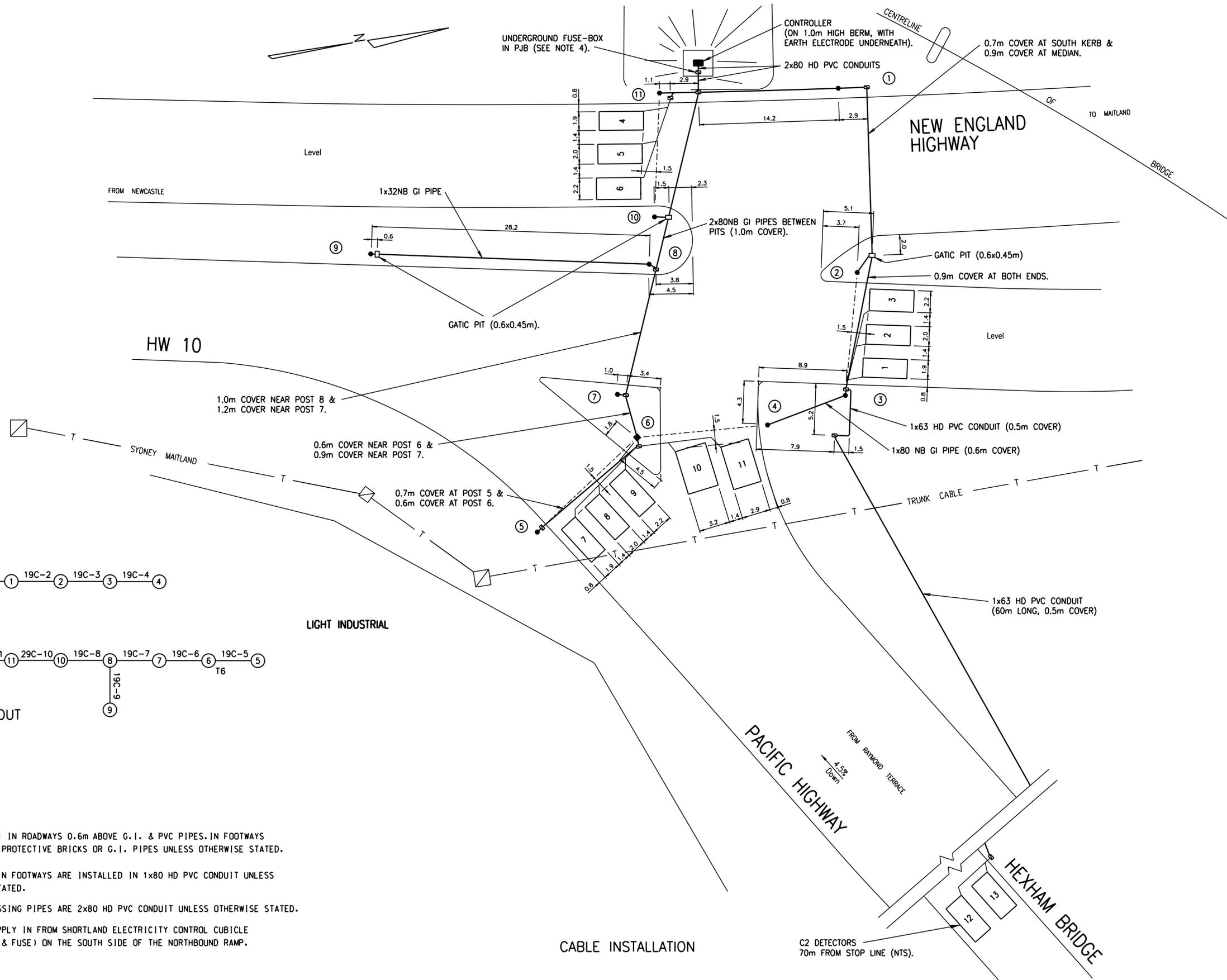
10 “Shifting Land Base” on Ausgrid Distribution and Transmission Plans

In some instances, the plans supplied may indicate road or property outlines that appear to have shifted in relation to the Ausgrid assets displayed.

In such instances, always refer to the “property line” (in metres) and depth of “cover” (in metres) references displayed on the nearest relevant “cross sections” to obtain Ausgrid asset location information (see Reading Ausgrid Plans, section 3, Cross Sections for more detail).



Figure 13



CABLE LAYOUT

- NOTES**
1. CABLE COVER: IN ROADWAYS 0.6m ABOVE G.I. & PVC PIPES. IN FOOTWAYS 0.45m ABOVE PROTECTIVE BRICKS OR G.I. PIPES UNLESS OTHERWISE STATED.
 2. ALL CABLES IN FOOTWAYS ARE INSTALLED IN 1x80 HD PVC CONDUIT UNLESS OTHERWISE STATED.
 3. ALL ROADCROSSING PIPES ARE 2x80 HD PVC CONDUIT UNLESS OTHERWISE STATED.
 4. ELECTRIC SUPPLY IN FROM SHORTLAND ELECTRICITY CONTROL CUBICLE NO.2 (METER & FUSE) ON THE SOUTH SIDE OF THE NORTHBOUND RAMP.

CABLE INSTALLATION

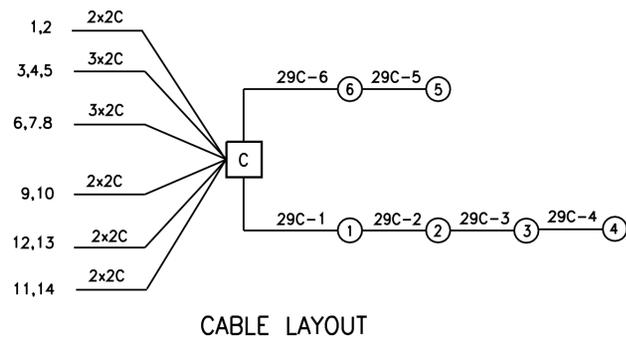
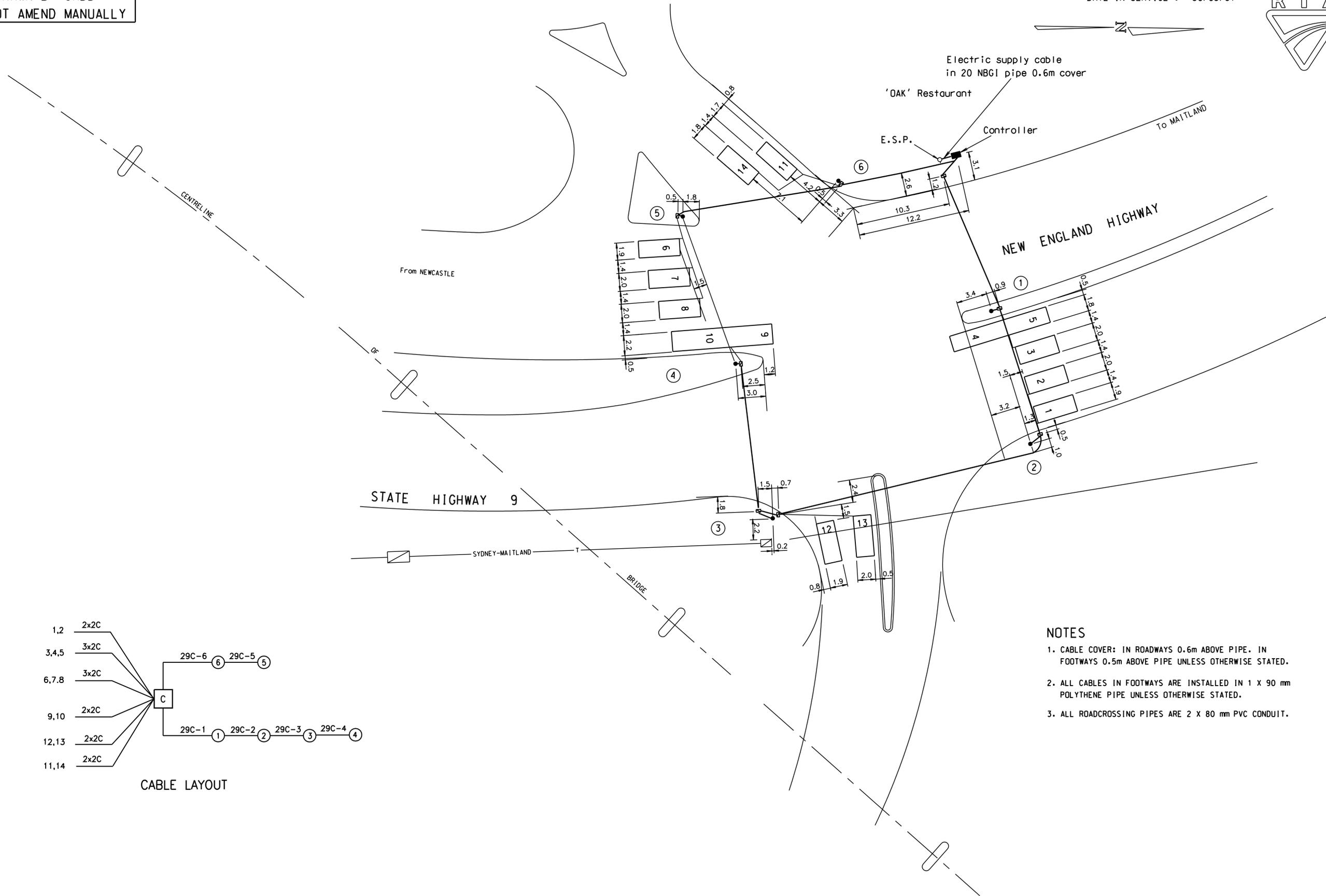
A ORIGINAL ISSUE - JI HR516 PLAN REDRAWN ON CADD. C2 DETECTOR LOOPS ADDED 70m FROM STOP LINE ON PACIFIC HIGHWAY (E).	PUBLIC UTILITY LEGEND HYDRANT □ MAP REF. 12M9 STOP VALVE ▲ SYMBOLS/ABBS. V003-6 GAS VALVE ⊕ STD POST V001-5 SEWER MANHOLE ⊗ DET SCHED EXP V0018-6 TELECOM PIT ⊕ PRES. DETECT V0005-17 ELECT LIGHT POLE ○ TYPE 6 POST VM212-2 POWER POLE ○ CABLE INSTALLATION VV0722-13 STAY POLE ⊙ CABLE CHART VV0722-14 TELEPHONE BOX ⊞ SURVEYOR: DIGITISED FROM ORIGINAL TELECOM PILLAR ⊕ DATE: 7 Oct 08		REFERENCE PLANS MAP REF. 12M9 SYMBOLS/ABBS. V003-6 STD POST V001-5 DET SCHED EXP V0018-6 PRES. DETECT V0005-17 TYPE 6 POST VM212-2 CABLE INSTALLATION VV0722-13 CABLE CHART VV0722-14 SURVEYOR: DIGITISED FROM ORIGINAL DATE: 7 Oct 08		ISG CO-ORDINATES 1 366 512 N 363 934 E DRAWN: I. HAYES A. PECZKOWSKI CHECKED: I. HAYES 16/03/10 SITE CHECKED: [Signature] RECOMMENDED		APPROVED [Signature] CON SHAKAS TET MANAGER DATE: 16/03/2010		Roads and Traffic Authority, N.S.W HW9 - HW10 CITY OF NEWCASTLE PACIFIC HWY AND NEW ENGLAND HWY HEXHAM TCS No: 722		REGION - HUNTER CADD FILE: VV0722_13A_INS.dgn SCALE 0 5 10 15 FILE No. 325 TS 199 REG. No. 0010.325.VV.0722 SUPERSEDES SHEET/ISSUE 11A SHEET 13	
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DRAWN BY CADD
DO NOT AMEND MANUALLY

DATE IN SERVICE : 30/03/87



0009.325.VV.2557



- NOTES**
1. CABLE COVER: IN ROADWAYS 0.6m ABOVE PIPE. IN FOOTWAYS 0.5m ABOVE PIPE UNLESS OTHERWISE STATED.
 2. ALL CABLES IN FOOTWAYS ARE INSTALLED IN 1 X 90 mm POLYTHENE PIPE UNLESS OTHERWISE STATED.
 3. ALL ROADCROSSING PIPES ARE 2 X 80 mm PVC CONDUIT.

A ORIGINAL ISSUE	PUBLIC UTILITY LEGEND		REFERENCE PLANS		U.B.D. Ref. Mod 12 L9 I.S.G. E: 363 934 CO-ORDS N: 1 366 609		APPROVED <i>De Bid</i>		Roads and Traffic Authority, N.S.W.		EXISTING <input checked="" type="checkbox"/> PROPOSED <input type="checkbox"/>	
	HYDRANT	<input type="checkbox"/>	SYMBOLS/ABBS.	VD003-6	DESIGNED D.C.	28/08/02	CITY OF NEWCASTLE INTERSECTION OF NEW ENGLAND HIGHWAY WITH THE ACCESSES TO THE "OAK" RESTAURANT AT HEXHAM CABLE INSTALLATION		CADD FILE: k:/Signals/TCS/.../vv2557_1G		SCALE 5 0 (1:200) 5 10	
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	GAS VALVE	<input type="checkbox"/>	DET SCHED EXP	VD018-10	DATE	29.08.02	REGN.	0009.325.VV.2557	SHEET	5		
SEWER MANHOLE	<input type="checkbox"/>	PRES. DETECT	VC005-17	SITE CHECKED		TCS No 2557		0009.325.VV.2557				
TELECOM PIT	<input type="checkbox"/>	SSG DIS. SEQ.	VD018-8	RECOMMENDED								
ELECT LIGHT POLE	<input type="checkbox"/>	DESIGN LAYOUT	SHEET 1									
POWER POLE	<input type="checkbox"/>	CABLE CHART	SHEET 6									
STAY POLE	<input type="checkbox"/>	SURVEYOR	N/A									
TELEPHONE BOX	<input type="checkbox"/>	DATE	N/A									
TELECOM PILLAR	<input type="checkbox"/>											