

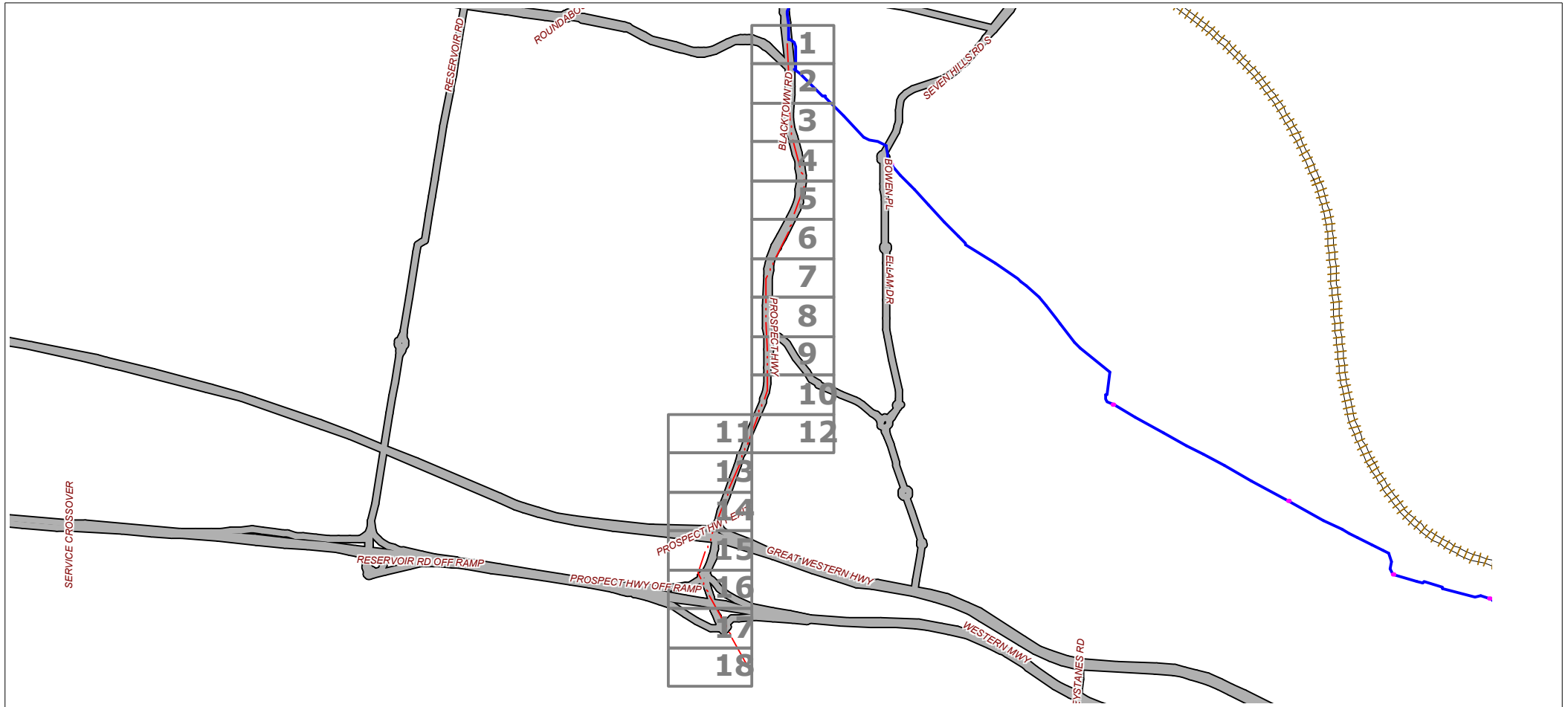


NOASSETAFFECTED

Sequence Number : 30679757



Address: Prospect Highway Hwy, Prospect, NSW, 2148



Create Date: 17/09/2013

Scale: 1:1680

Legend:



-  Manhole or Pit
-  AAPT/PWT Asset
-  Non AAPT/PWT Asset

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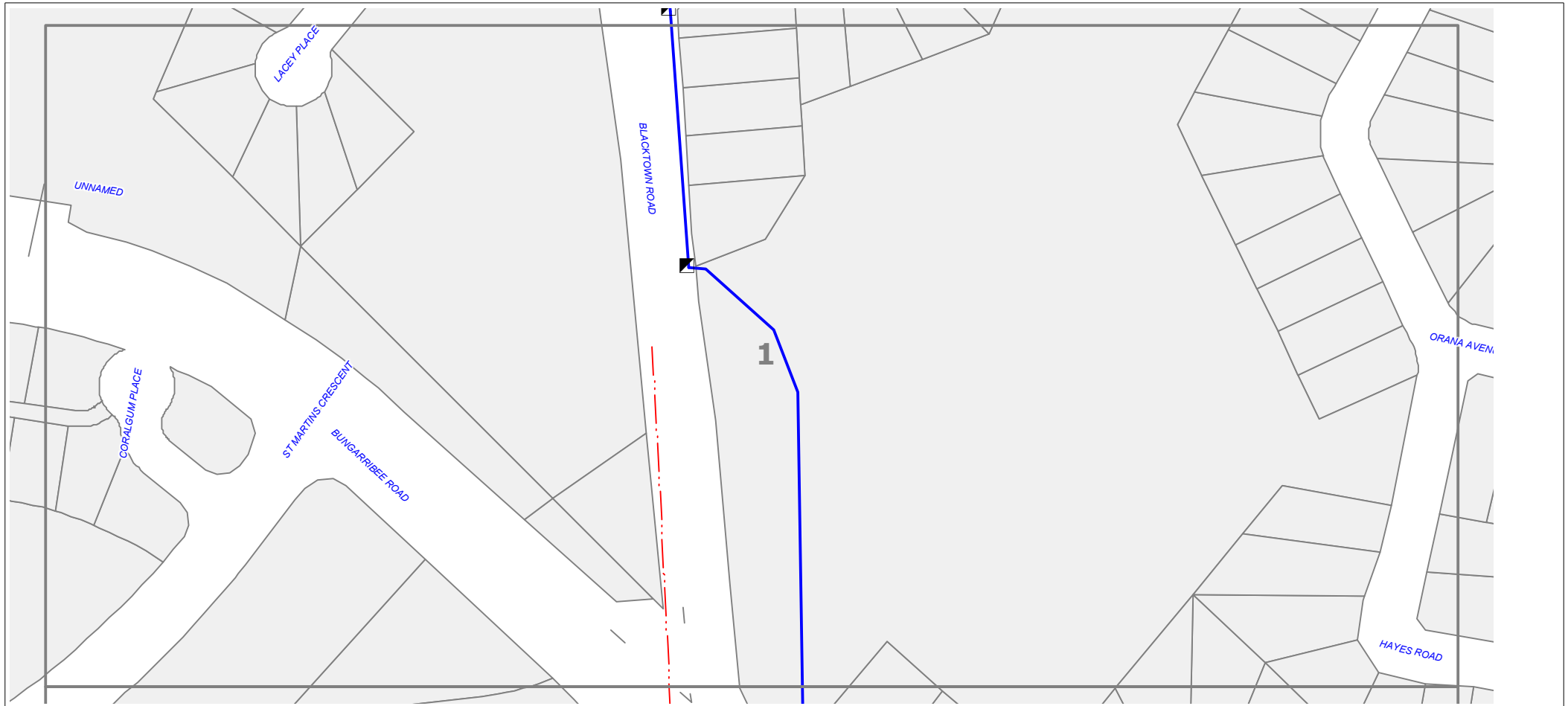


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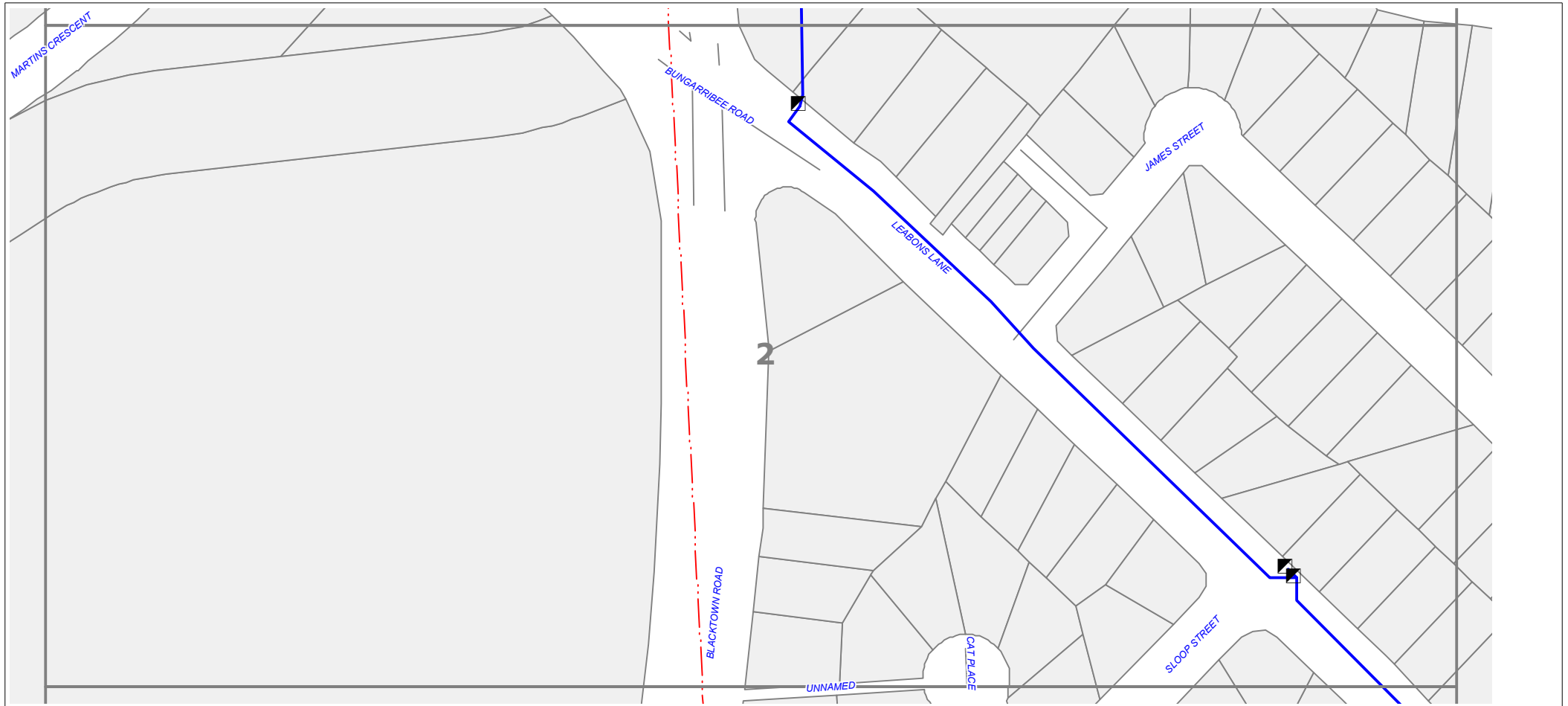


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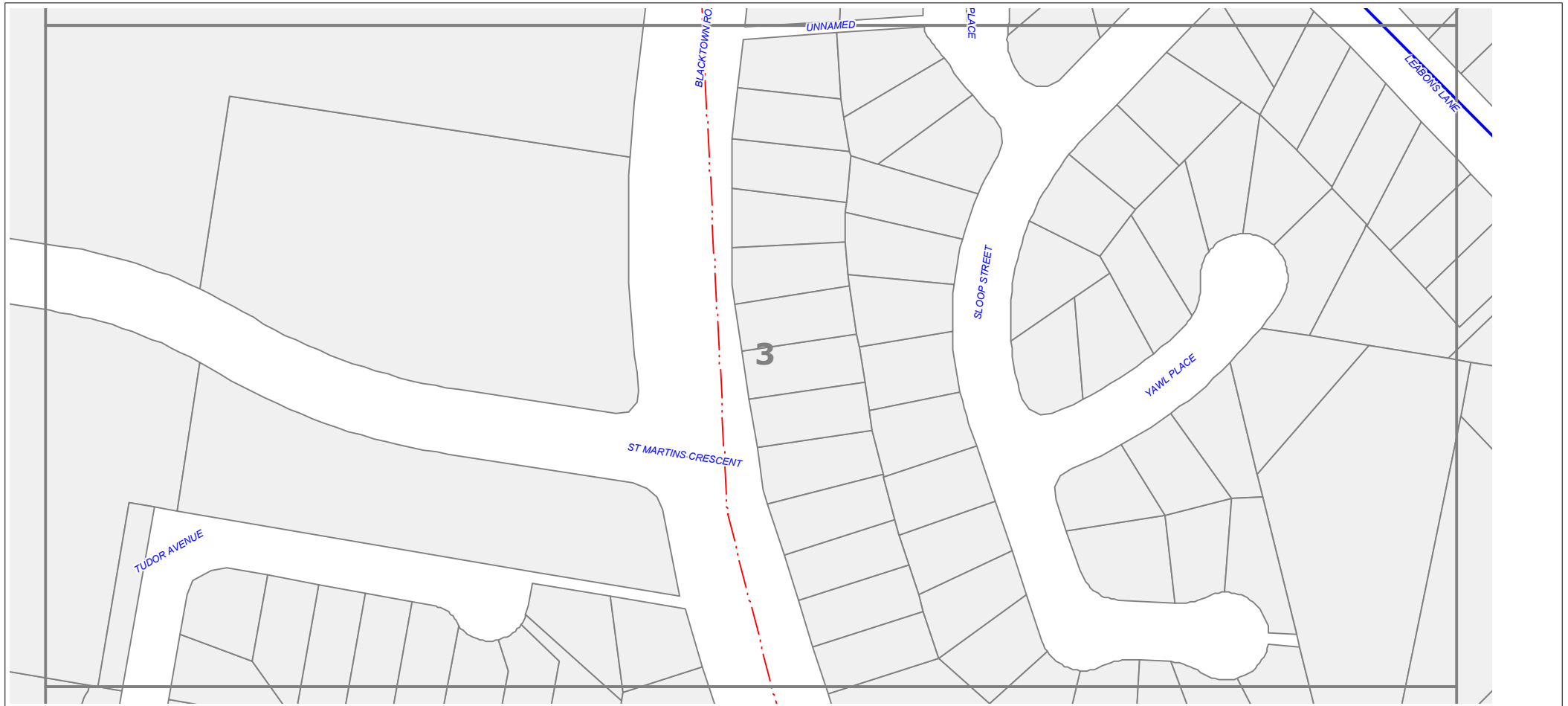


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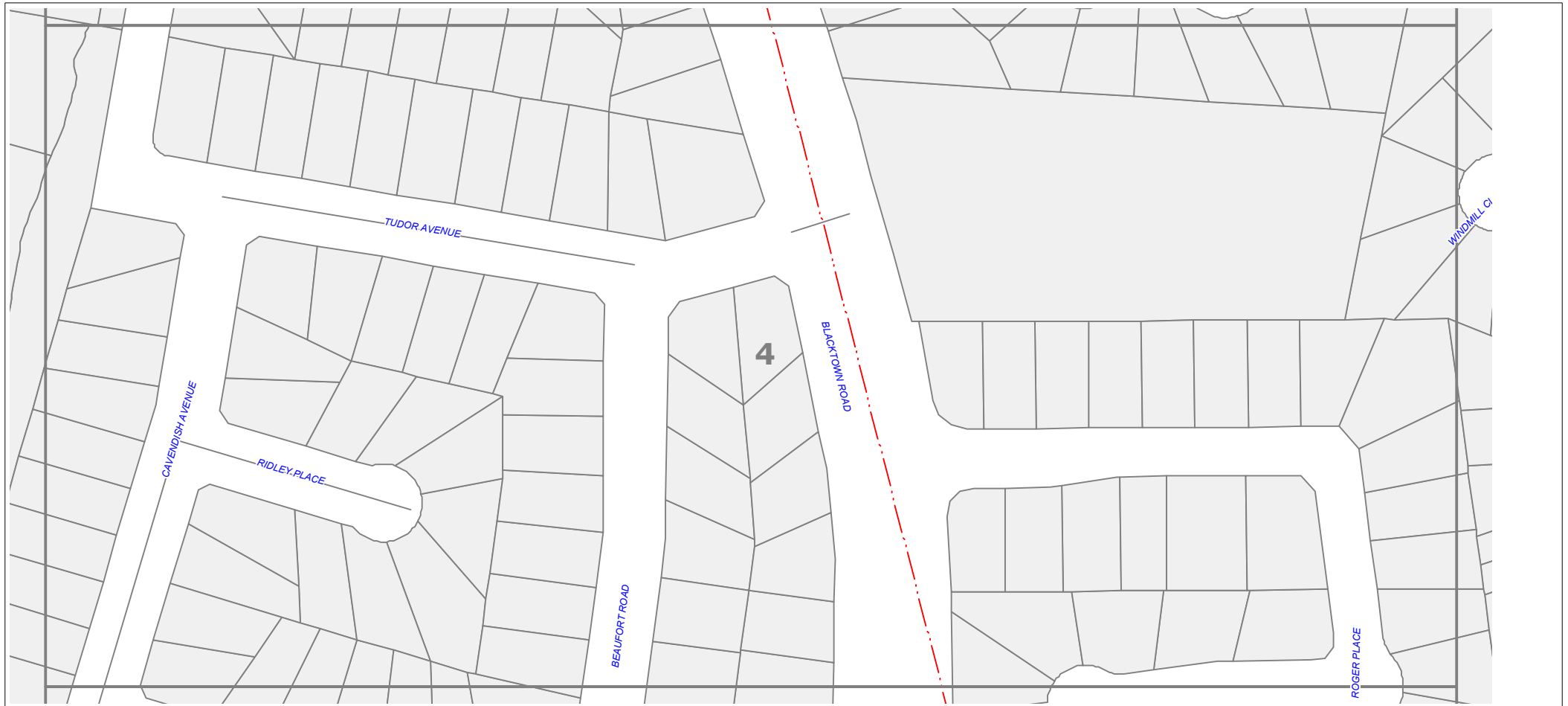


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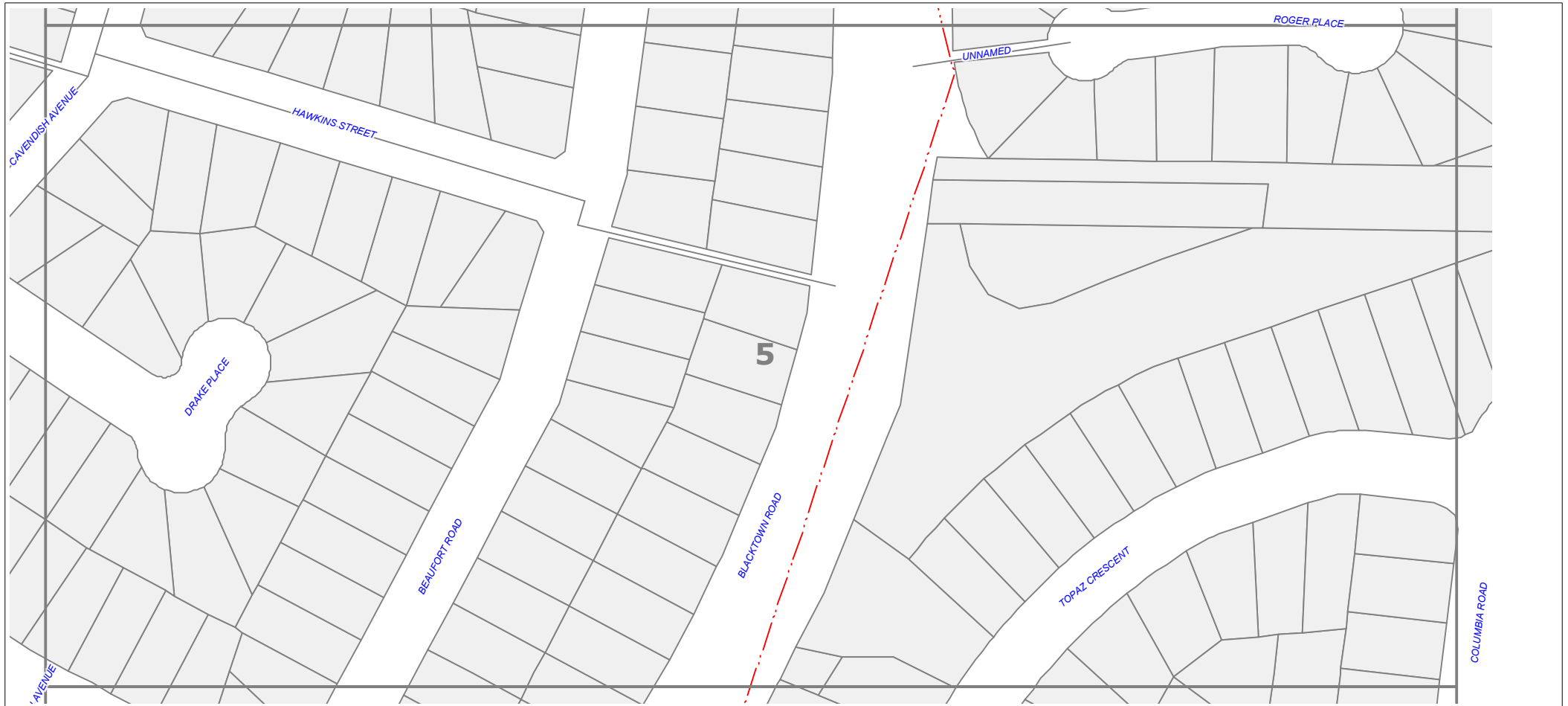


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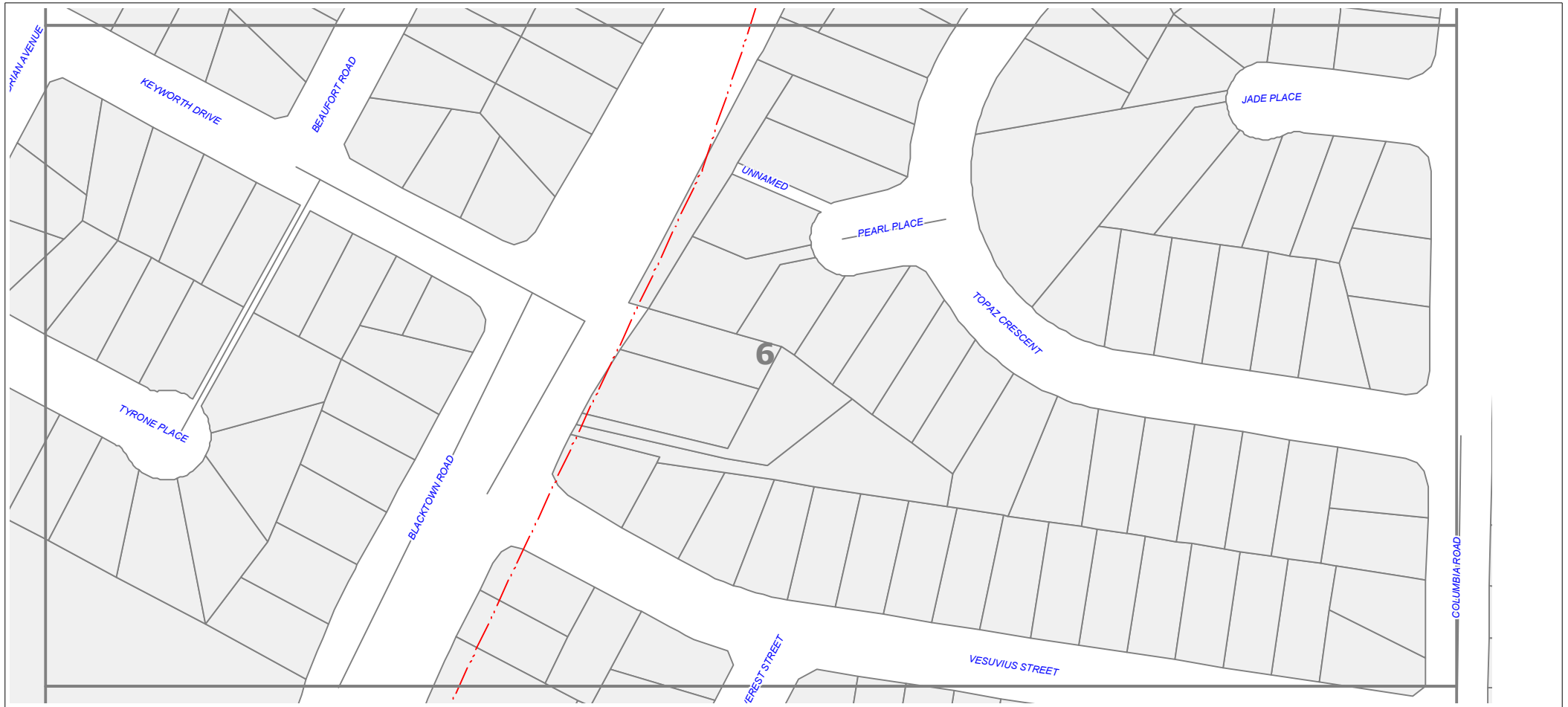


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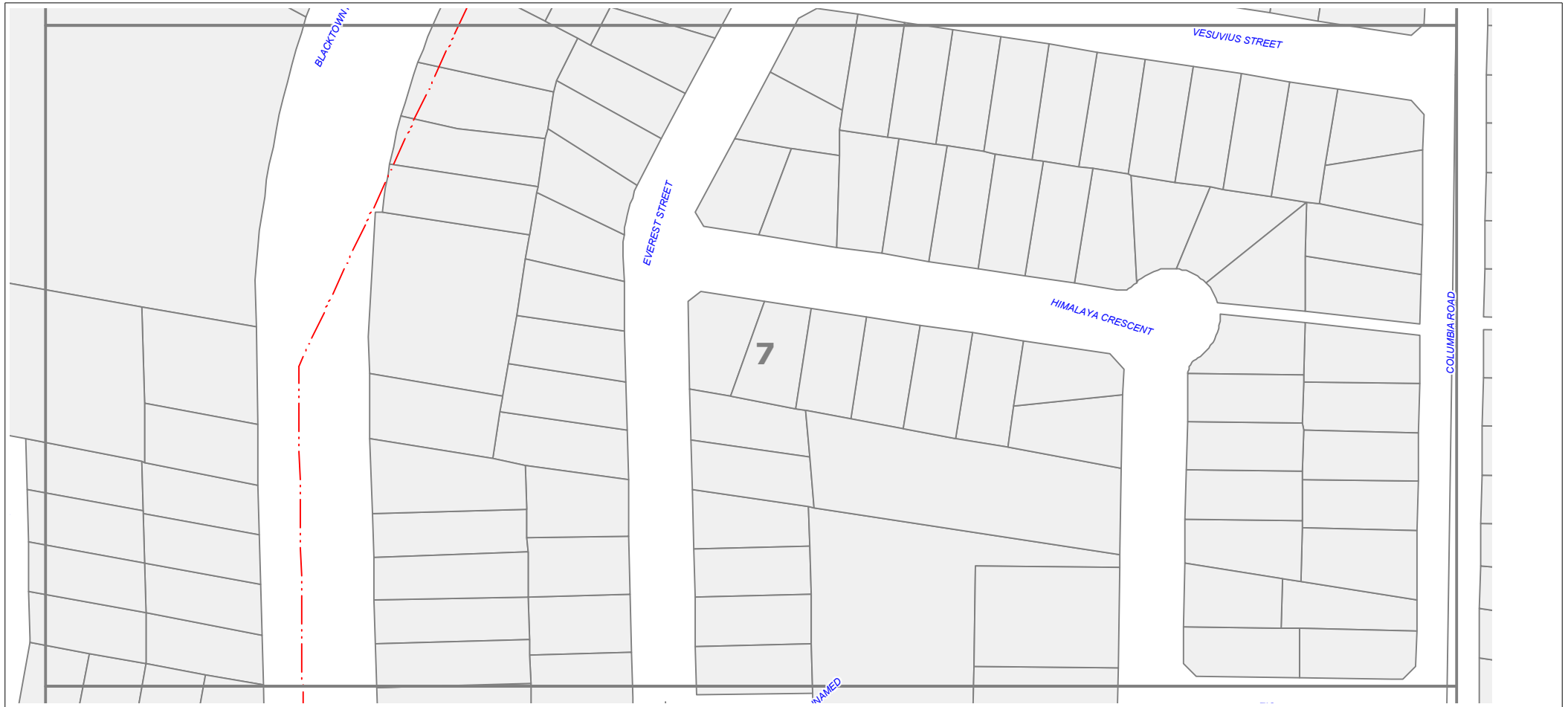


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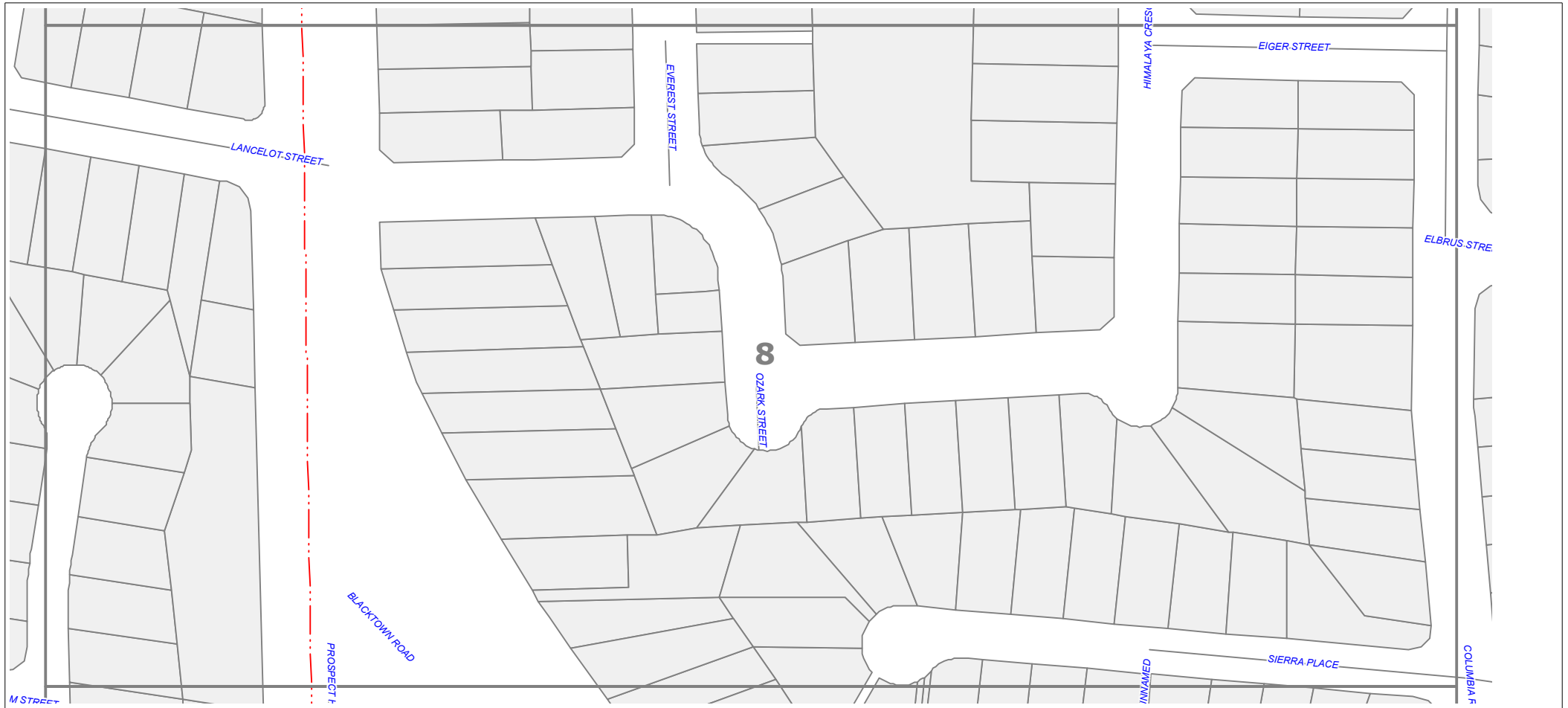


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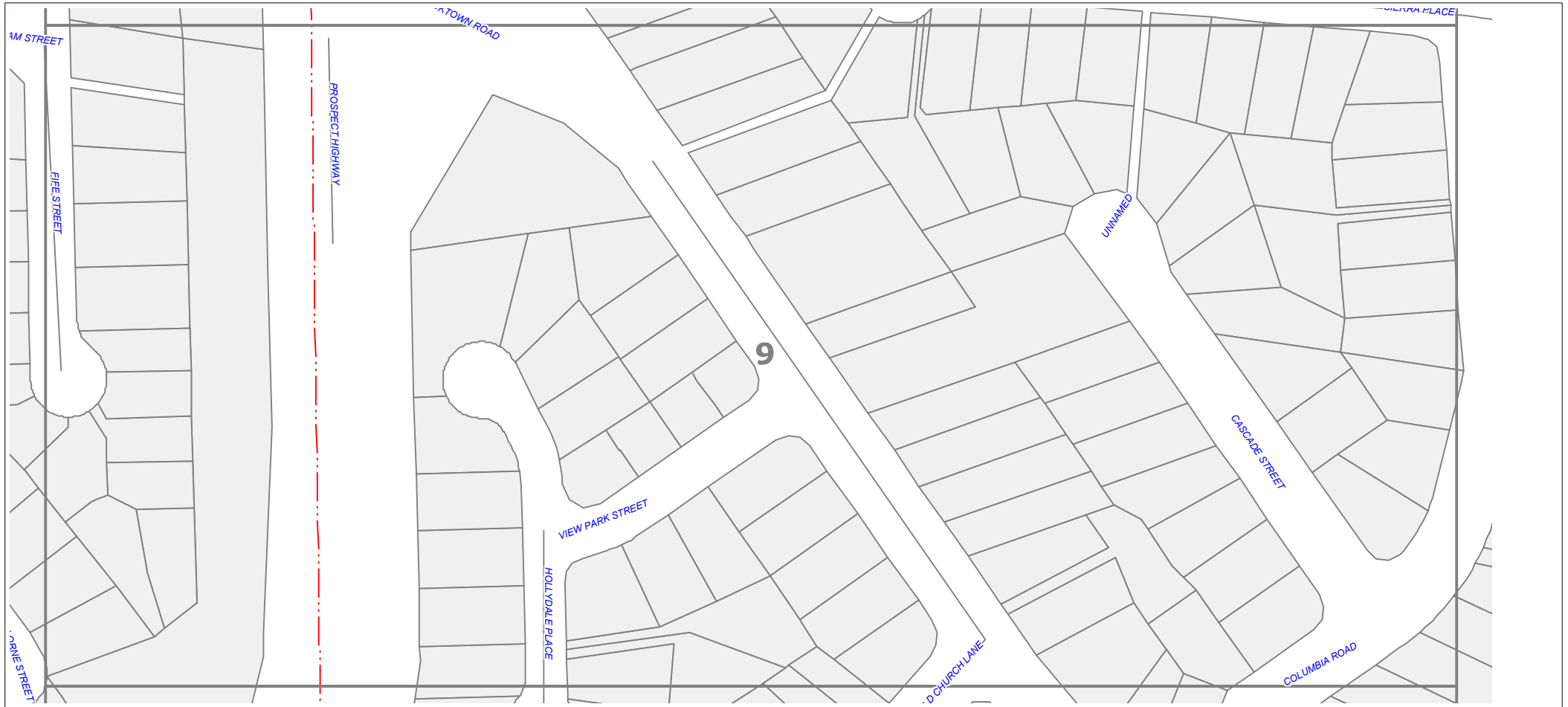


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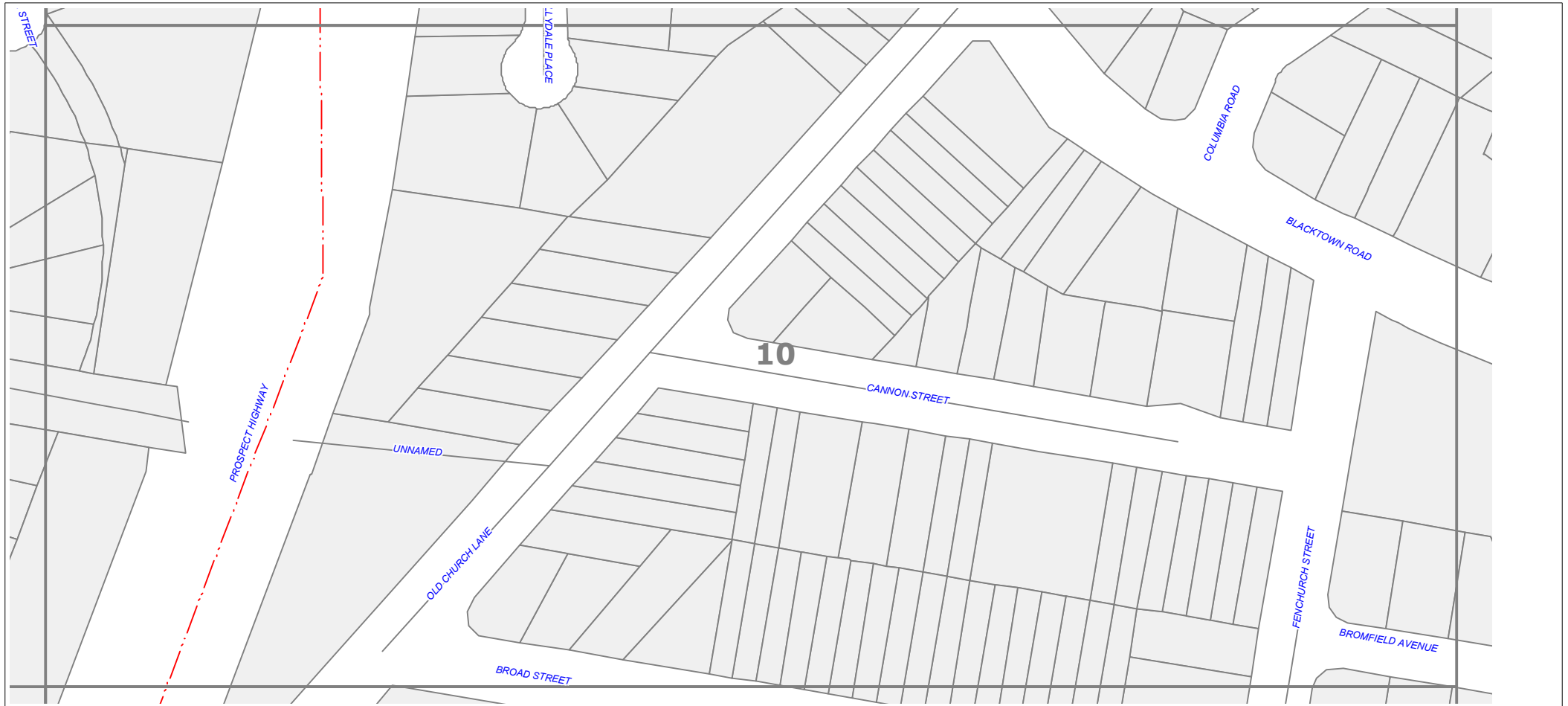


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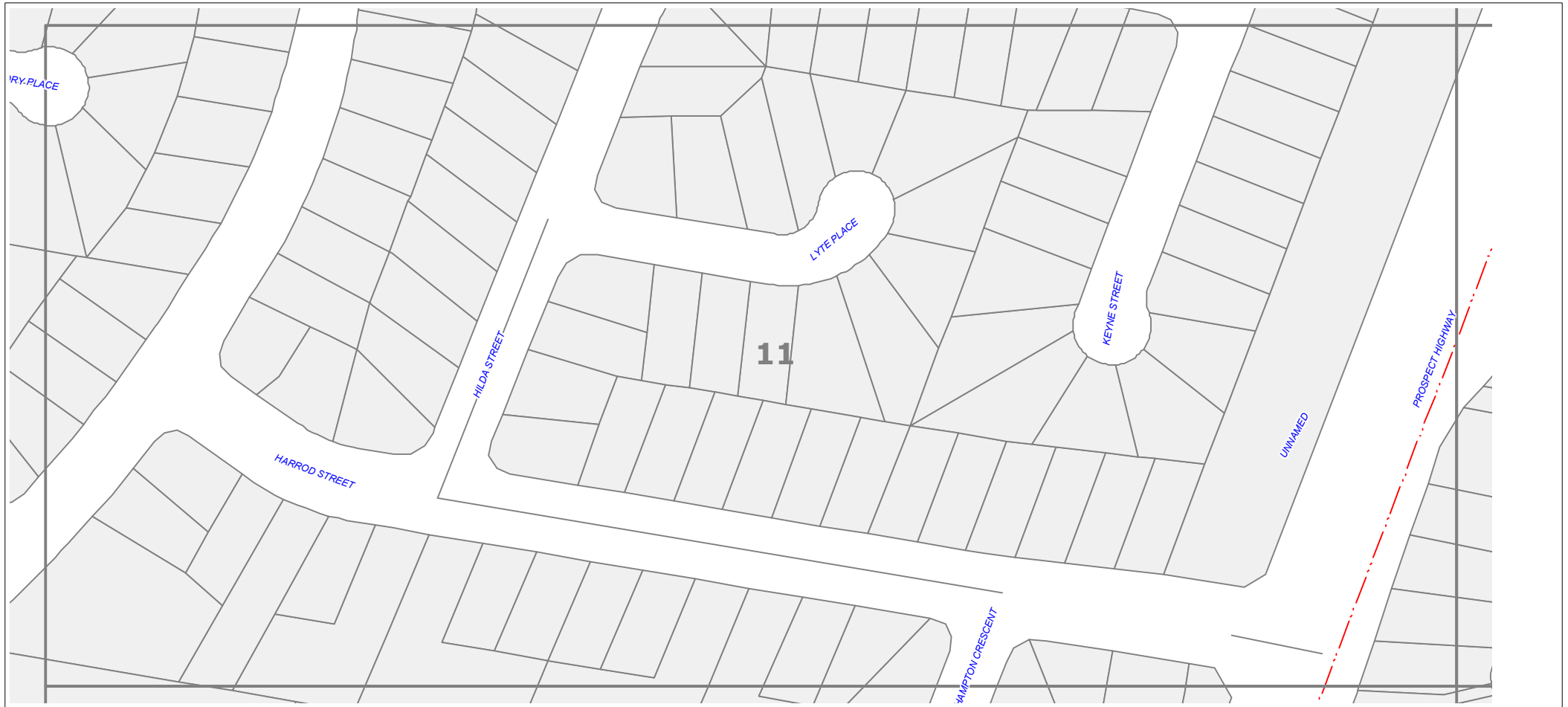


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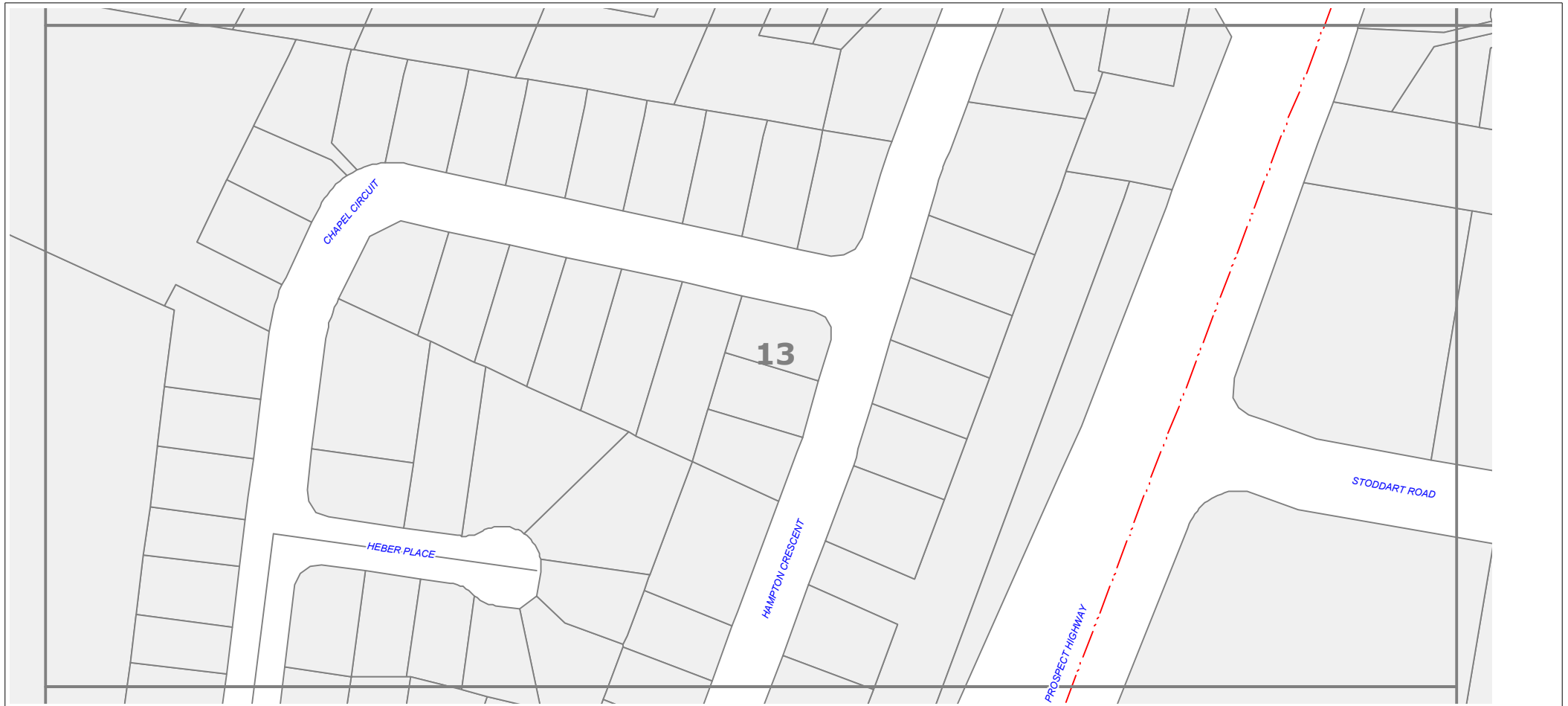


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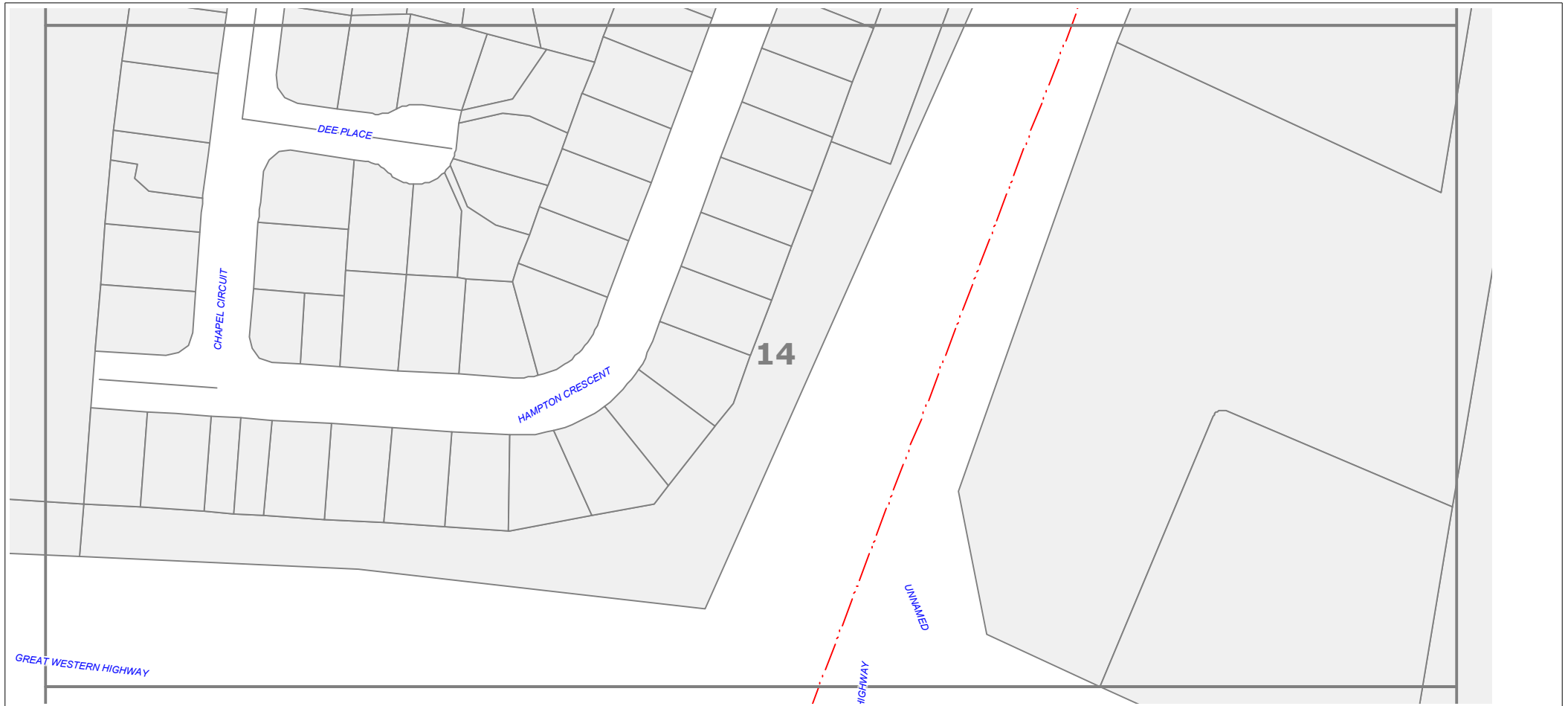


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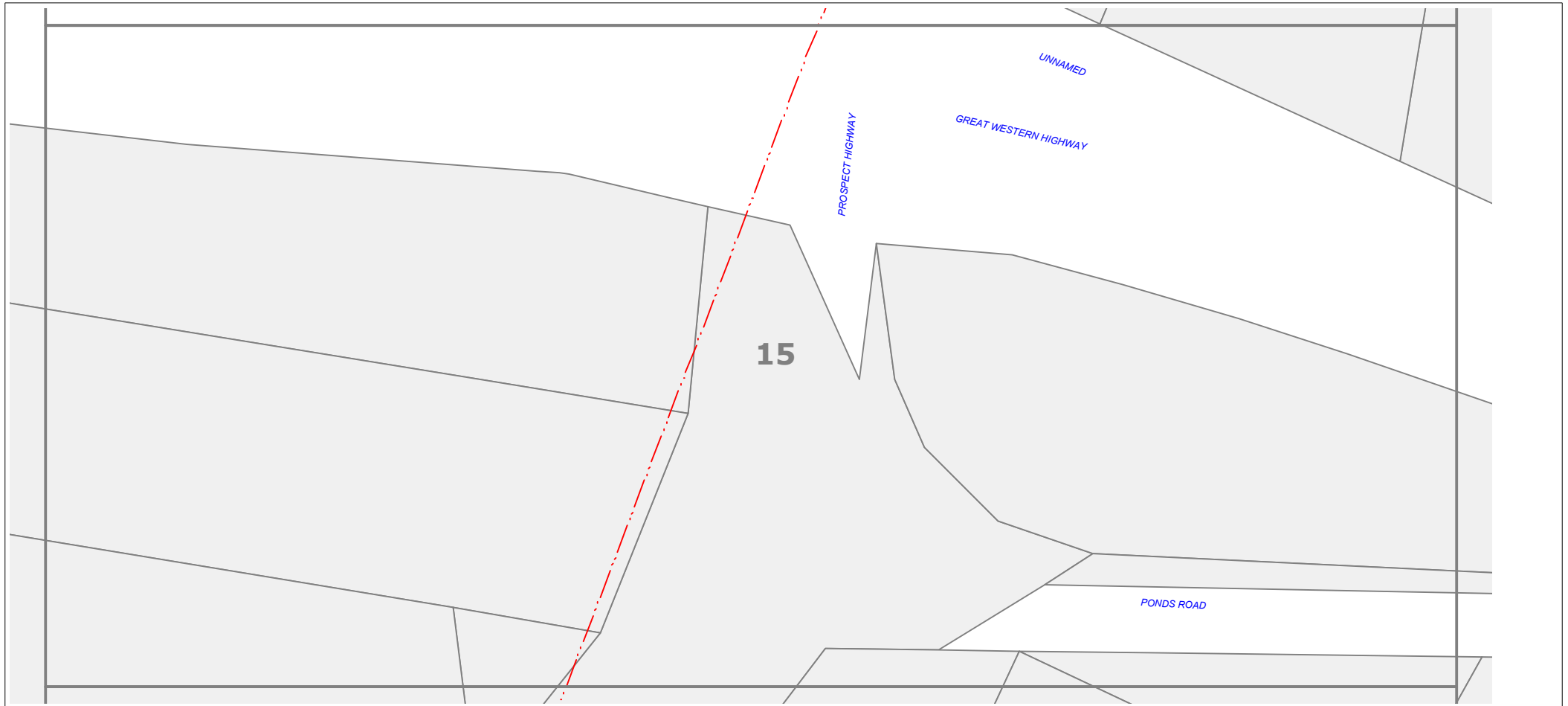


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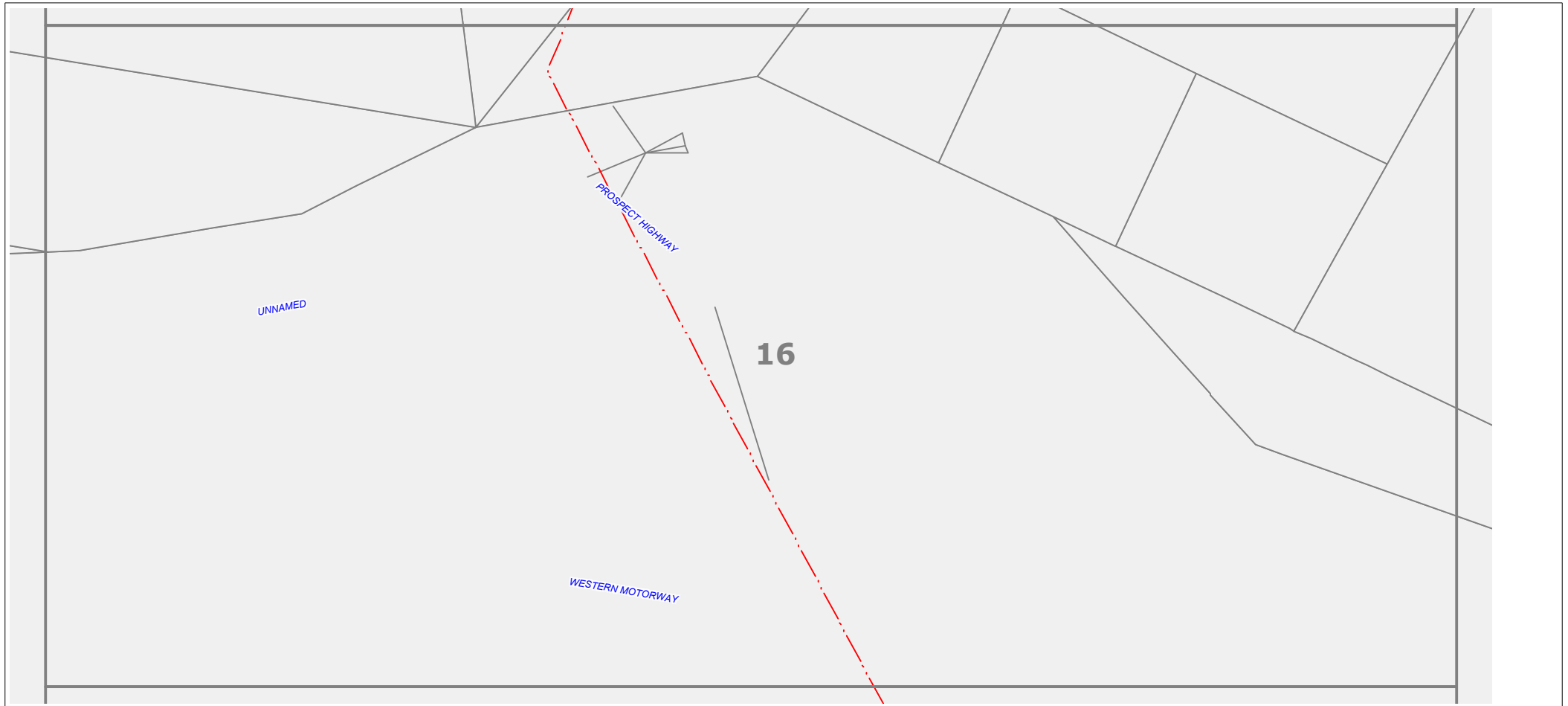


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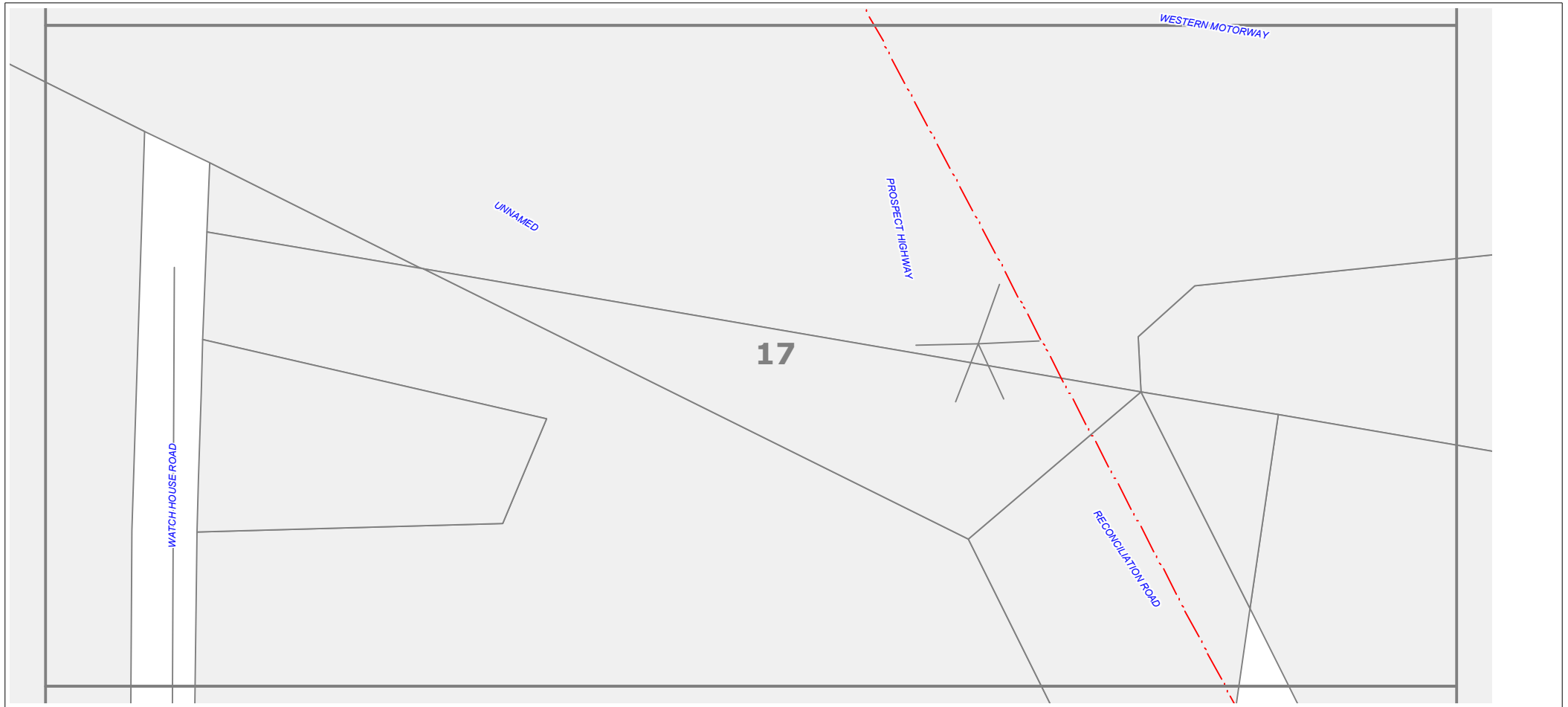


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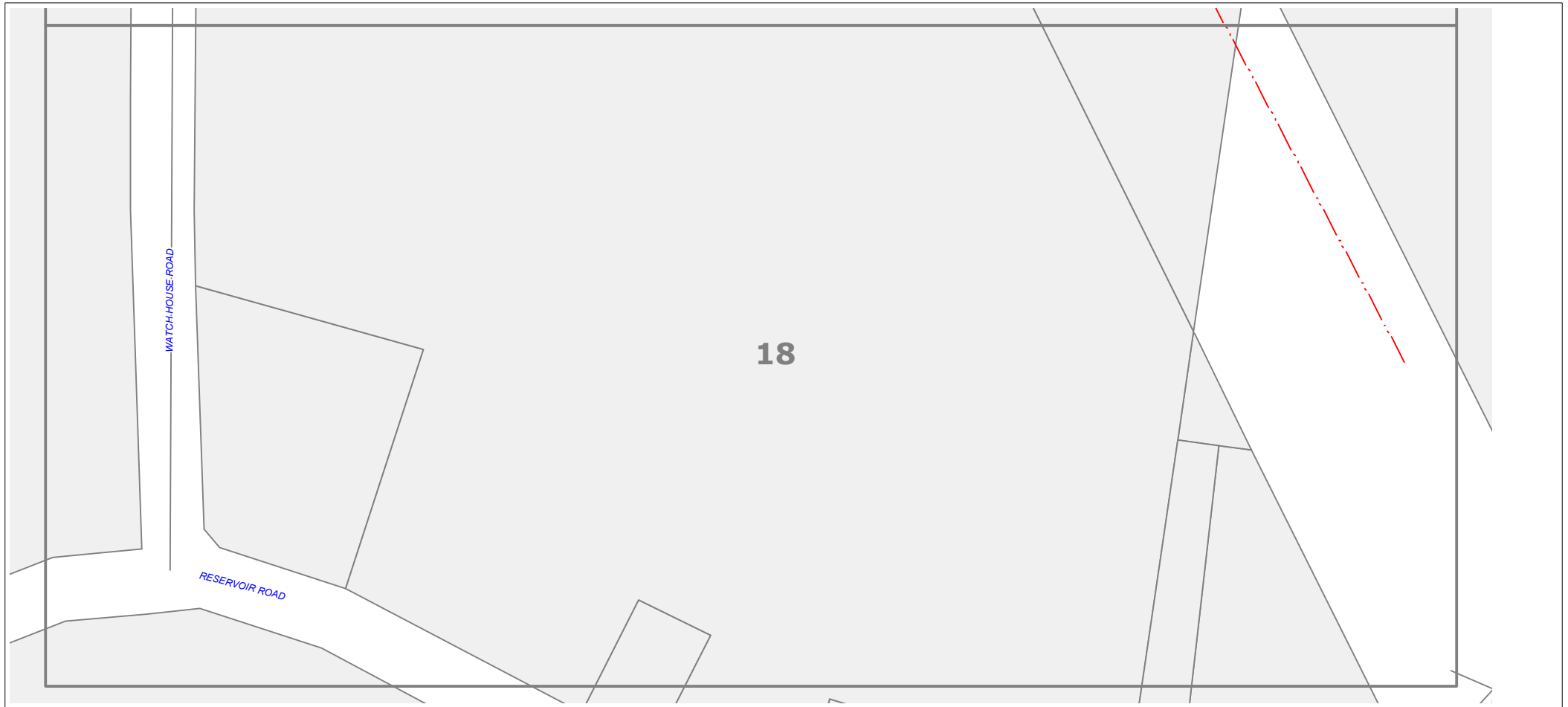


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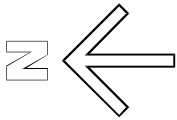
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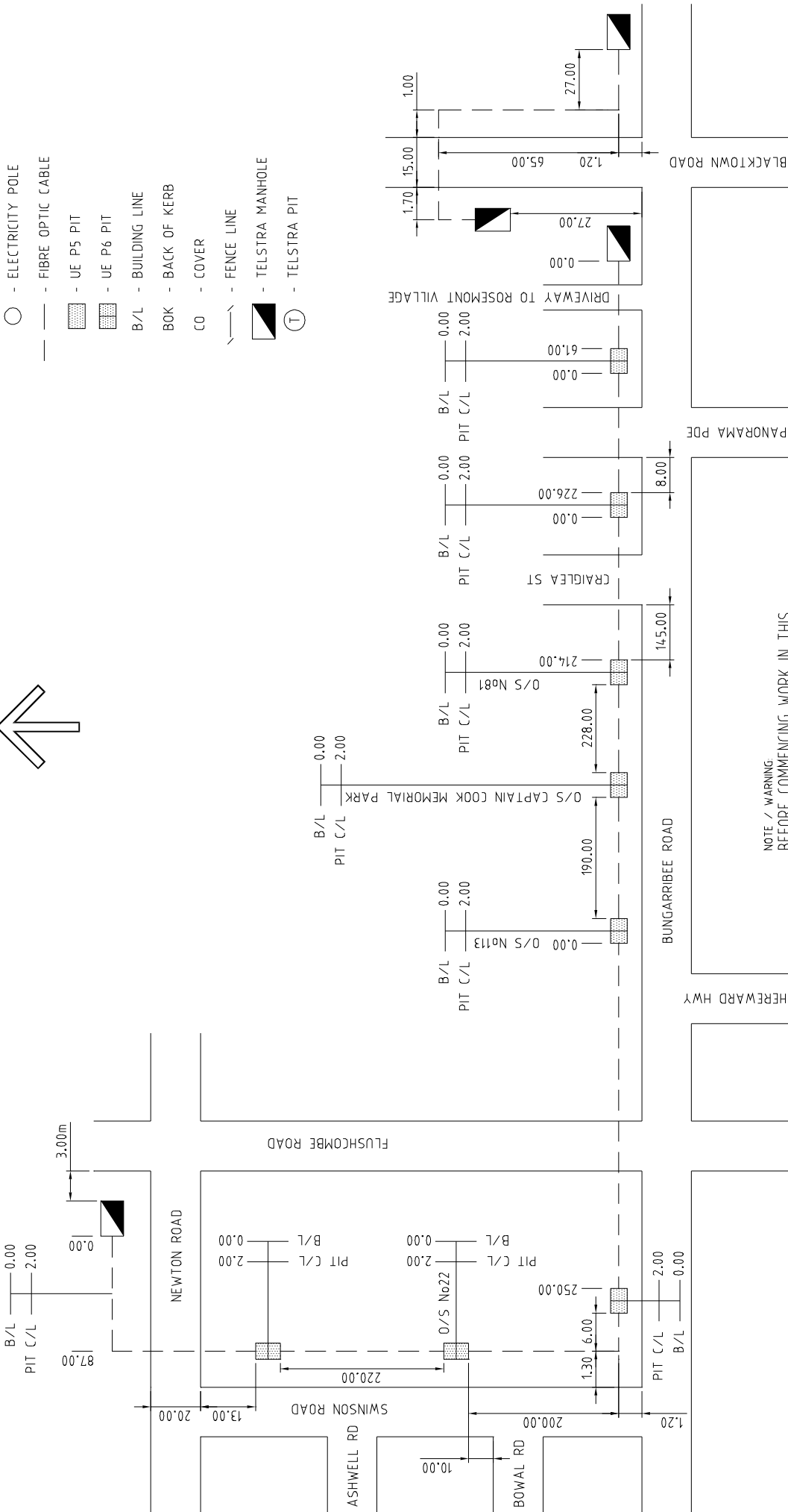


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LEGEND

- - ELECTRICITY POLE
- - FIBRE OPTIC CABLE
- ▨ - UE P5 PIT
- ▨ - UE P6 PIT
- B/L - BUILDING LINE
- BOK - BACK OF KERB
- CO - COVER
- - FENCE LINE
- ▤ - TELSTRA MANHOLE
- ⊙ - TELSTRA PIT



NOTE / WARNING
 BEFORE COMMENCING WORK IN THIS
 AREA PLEASE CONTACT
 MURRAY BRICE ON MOBILE 0413 449 060
 ON BEHALF OF UE COMM.

REV	DESCRIPTION	DATE
A	INITIAL ISSUE	25.09.00
-	RENUMBERED. WAS BCE-00-0013	23.11.00
B	NORTHPOINT PLACED CORRECTLY	10.01.01

BCE

Brice Civil Engineering Pty Ltd

A.B.N. 13 087 182 581

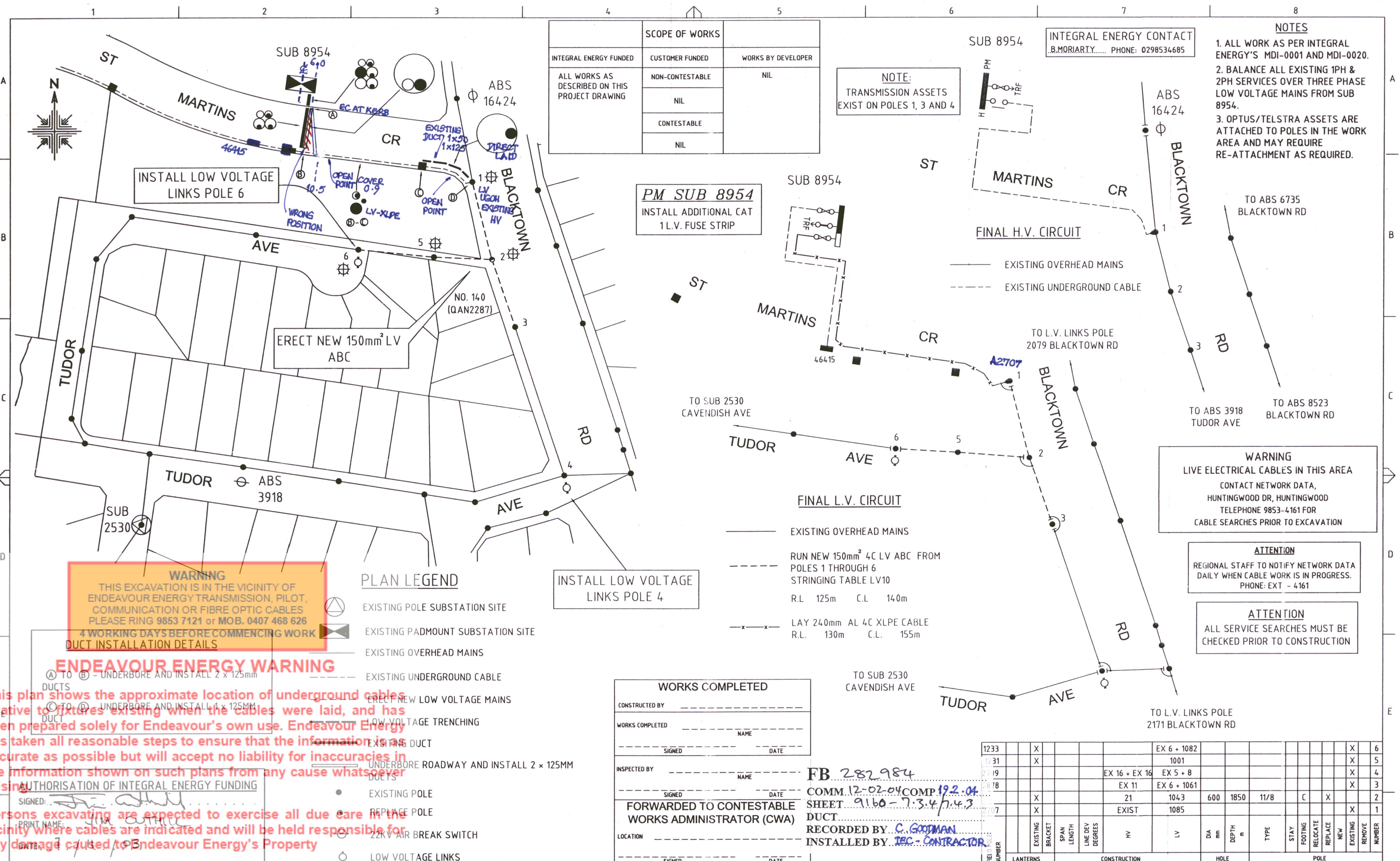
P.O. Box 378 Cherrybrook NSW 2126 Ph:(02) 8860 7550 Fax: (02) 8860 7551

Uecom
 MAKING THE CONNECTION
 ACN 0719 083 195

PROJECT: BUNGARRIBEE RD
 STREET: BLACKTOWN
 SUBURB: BLACKTOWN
 UBD REF: 188-M1,M2,M3,N3,P3,Q4
 UBD REF: 189-A4,B4,B3
 CONDUIT: 50mm
 DEPTH: 0.5 - 0.9m

METHOD: DIRECTIONAL BORE AND EXCAVATION	
SCALE: NOT TO SCALE	SIZE A3
DOCUMENT No OFNS/SYD/2074	DATE: 25.09.00
	REVISION B

AS-BUILTS



SCOPE OF WORKS		
INTEGRAL ENERGY FUNDED	CUSTOMER FUNDED	WORKS BY DEVELOPER
ALL WORKS AS DESCRIBED ON THIS PROJECT DRAWING	NON-CONTESTABLE	NIL
	NIL	
	CONTESTABLE	
	NIL	

NOTE:
TRANSMISSION ASSETS
EXIST ON POLES 1, 3 AND 4

INTEGRAL ENERGY CONTACT
B.MORIARTY..... PHONE: 0298534685

- NOTES**
1. ALL WORK AS PER INTEGRAL ENERGY'S MDI-0001 AND MDI-0020.
 2. BALANCE ALL EXISTING 1PH & 2PH SERVICES OVER THREE PHASE LOW VOLTAGE MAINS FROM SUB 8954.
 3. OPTUS/TELSTRA ASSETS ARE ATTACHED TO POLES IN THE WORK AREA AND MAY REQUIRE RE-ATTACHMENT AS REQUIRED.

PM SUB 8954
INSTALL ADDITIONAL CAT
1 L.V. FUSE STRIP

EXISTING OVERHEAD MAINS
EXISTING UNDERGROUND CABLE

FINAL L.V. CIRCUIT

EXISTING OVERHEAD MAINS

RUN NEW 150mm² 4C LV ABC FROM
POLES 1 THROUGH 6
STRINGING TABLE LV10
R.L. 125m C.L. 140m

LAY 240mm AL 4C XLPE CABLE
R.L. 130m C.L. 155m

WARNING
LIVE ELECTRICAL CABLES IN THIS AREA
CONTACT NETWORK DATA,
HUNTINGWOOD DR, HUNTINGWOOD
TELEPHONE 9853-4161 FOR
CABLE SEARCHES PRIOR TO EXCAVATION

ATTENTION
REGIONAL STAFF TO NOTIFY NETWORK DATA
DAILY WHEN CABLE WORK IS IN PROGRESS.
PHONE: EXT - 4161

ATTENTION
ALL SERVICE SEARCHES MUST BE
CHECKED PRIOR TO CONSTRUCTION

WARNING
THIS EXCAVATION IS IN THE VICINITY OF
ENDEAVOUR ENERGY TRANSMISSION, PILOT,
COMMUNICATION OR FIBRE OPTIC CABLES
PLEASE RING 9853 7121 or MOB. 0407 468 626
4 WORKING DAYS BEFORE COMMENCING WORK
DUCT INSTALLATION DETAILS

PLAN LEGEND

- EXISTING POLE SUBSTATION SITE
- EXISTING PADMOUNT SUBSTATION SITE
- EXISTING OVERHEAD MAINS
- EXISTING UNDERGROUND CABLE
- ERECT NEW LOW VOLTAGE MAINS
- LOW VOLTAGE TRENCHING
- EXISTING DUCT
- UNDERBORE ROADWAY AND INSTALL 2 x 125MM DUCTS
- EXISTING POLE
- REPLACE POLE
- 22KV AIR BREAK SWITCH
- LOW VOLTAGE LINKS

INSTALL LOW VOLTAGE
LINKS POLE 4

WORKS COMPLETED

CONSTRUCTED BY _____

WORKS COMPLETED _____ NAME _____

SIGNED _____ DATE _____

INSPECTED BY _____ NAME _____

SIGNED _____ DATE _____

FORWARDED TO CONTESTABLE
WORKS ADMINISTRATOR (CWA)

LOCATION _____

SIGNED _____ DATE _____

FB 282984
COMM 12-02-04 COMP 19-2-04
SHEET 9160-7.3.47.4.3
RECORDED BY C. GOODMAN
INSTALLED BY TEC-CONTRACTOR

FILE NUMBER	EXISTING	BRACKET	SPAN LENGTH	LINE DEV DEGREES	HV	LV	DIA mm	DEPTH m	TYPE	STAY	FOOTING	RELOCATE	REPLACE	NEW	EXISTING	REMOVE	NUMBER
1233		X															6
1231		X															5
2719					EX 16 + EX 16	EX 5 + 8											4
2718					EX 11	EX 6 + 1061											3
2717	X				21	1043	600	1850	11/8	C	X						2
2717	X				EXIST	1085											1

ENDEAVOUR ENERGY WARNING

This plan shows the approximate location of underground cables relative to fixtures existing when the cables were laid, and has been prepared solely for Endeavour's own use. Endeavour Energy has taken all reasonable steps to ensure that the information is as accurate as possible but will accept no liability for inaccuracies in the information shown on such plans from any cause whatsoever arising.

AUTHORISATION OF INTEGRAL ENERGY FUNDING

SIGNED: _____
PRINT NAME: JIM CARTER

Persons excavating are expected to exercise all due care in the vicinity where cables are indicated and will be held responsible for any damage caused to Endeavour Energy's Property

All Electrical apparatus shall be considered as live until proved de-energised. Contact with live electrical apparatus will cause severe injury or death

Those excavating near Endeavour Energy's cables should be aware that ASBESTOS OR ASBESTOS-CONTAINING MATERIAL MAY BE PRESENT in Endeavour Energy's underground assets and that Organo-Chloride Pesticides(OCP) may be present in some sub-transmission trenches

CAP. No.		FILE No.	MN631
IE PROJ. No.	QAN2287	LG AREA	BLACKTOWN
HV SWITCHING		HV GEO MAP	9160-74
OVERHEAD MAINS		GIS MAP No	9160-7434
UNDERGROUND MAINS		UBD REF	189 A-6
SUBSTATIONS		HV OP DIAG	LEABONS LANE C-5

ORIGINAL SCALE 1:1000

DRAWN MDS

DATE 31/10/03

CH'D EBM

DO NOT SCALE
DIMENSIONS IN METRES

DESIGN MJG

INTEGRAL ENERGY

CAVENDISH AVE
BLACKTOWN
QAN2287
NEW LOW VOLTAGE MAINS

A2 282984 A

SHEET No 1 OF 1 SHEETS

202707

WORKS COMPLETED

CONSTRUCTED BY: _____

WORKS COMPLETED: _____

SIGNED: _____ DATE: _____

INSPECTED BY: _____

SIGNED: _____ DATE: _____

FORWARDED TO ENGINEERING PERFORMANCE

LOCATION: _____

SIGNED: _____ DATE: _____

"IMPORTANT"

1. ALL alterations to this Project Drawing by the Construction crews **MUST** be marked in RED daily by the responsible Foreman on the 'Works in Progress' drawing held in the Construction office

2. A **FINAL** field inspection with the above Drawing was carried out and is built as shown

Name: _____ please print: _____ please sign: _____ Foreman O/H

Name: _____ please print: _____ please sign: _____ Foreman U/G

Name: _____ please print: _____ please sign: _____ Foreman subs

NOTES

1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE FOLLOWING INTEGRAL ENERGY DOCUMENTS.
SDI 100 (SUBSTATION DESIGN INSTRUCTION - DISTRIBUTION SYSTEM EARTHING REQUIREMENTS)
SDI 101 (SUBSTATION CONSTRUCTION GUIDELINES)
SDI 104 (SPECIFICATION OF REQUIREMENTS FOR THE LOCATION OF PADMOUNT SUBSTATIONS)
SAD 0001 (PROJECT DRAWING STANDARD)

2. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH INTEGRAL ENERGY'S MDI 0020.

3. ESTABLISH NEW 500kVA PADMOUNT SUBSTATION No. 23837 (COMPLETE WITH ABB "SAFELINK" CFC HV AND WEBER FFIF CATEGORY 1 LV SWITCHGEAR) IN NEW EASEMENT TO BE CREATED BY INTEGRAL ENERGY.

4. THE EASEMENT FOR THE SUBSTATION SITE (5.5m x 2.75m) IS REQUIRED OVER THE BLACKTOWN CITY COUNCIL RESERVE. THIS EASEMENT IS A MINIMUM SIZE ONLY AND HAS TO BE INCREASED ACCORDINGLY WHERE THERE IS AN ENCROACHMENT BY WATER AND/OR SEWER MAINS

5. THE SUBSTATION EASEMENT SHOULD INCLUDE A RESTRICTION ZONE OF 4m RADIUS FROM THE PLINTH OF THE SUBSTATION, THAT WILL PREVENT ANY STRUCTURE FROM BEING CONSTRUCTED WITHIN THE ZONE.

6. THE SUBSTATION IS TO BE BUILT ON A BATTER, RAISING THE SURFACE OF THE PLINTH TO 200mm ABOVE THE HIGHEST RELATIVE LEVEL WITHIN THE EASEMENT. THIS BATTER IS TO MEET LOCAL COUNCIL REQUIREMENTS, IS TO BE NO STEEPER THAN 1 IN 3, AND MUST BE ENTIRELY OUTSIDE THE EASEMENT AREA. IT MAY BE NECESSARY TO ADJUST THE EASEMENT LOCATION REFER INTEGRAL ENERGY'S SDI 104 (SPECIFICATION OF REQUIREMENTS FOR THE LOCATION OF PADMOUNT SUBSTATIONS) FOR DETAILS.

7. A 1 METRE WIDE EASEMENT (FOR UNDERGROUND CABLES) IS REQUIRED OVER BLACKTOWN CITY COUNCIL RESERVE AS FOLLOWS
- FROM THE HV END OF THE SUBSTATION EASEMENT, IN A NORTHERLY DIRECTION PARALLEL TO THE CYCLEWAY APPROX 129.5M THEN IMMEDIATELY EAST APPROX 16M TO THE BOUNDARY OF THE BLACKTOWN RD/PROSPECT HIGHWAY ROAD RESERVE IN LINE WITH POLE 5.
- FROM THE LV END OF THE SUBSTATION EASEMENT, IN A WESTERLY DIRECTION APPROX 18.8M TO THE BOUNDARY OF THE LOCAL GOVERNMENT ADMINISTERED LAND (END OF PATHWAY).

8. NEW POLE 6 SHALL BE LOCATED APPROXIMATELY 2M WEST OF REMOVED POLE 5 AND IN LINE WITH EXISTING POLES 3 & 4. RTA SIGNAL BOX ASSETS EXIST ON POLE 5 AS DO COMMUNICATIONS CABLES/EQUIPMENT. RELOCATE ALL ASSETS FROM POLE 5 TO 6

9. EXERCISE APPROPRIATE ENVIRONMENTAL SEDEMENT AND RUN-OFF CONTROL PROCEDURES AS STORMWATER DRAINS & CHANNELS EXIST IN AND AROUND CONSTRUCTION ZONE.

10. DEFECTS EXIST IN AND AROUND THE CONSTRUCTION ZONE - SEE "DEFECT TABLE".

11. NEW POLES 6, 7 & 8 SHALL HAVE REFLECTORS PLACED ON THEM AS THIS AREA APPEARS TO BE FREQUENTED BY VEHICLES.

12. ACCESS TO THE CYCLEWAY AREA ADJACENT TO THE PROSPECT HWY IS VIA THE RTA CHAIN GATE IN LANCELOT ST. THE KEY REQUIRED TO OPEN THIS LOCK IS A 100MM DIAMETER ALUMINIUM KEY. PLEASE CONTACT ADAM BOYLE AT THE RTA CHAIN GATE DEPOT 0755000000 BY CONTACTING ADAM BOYLE AT THE RTA CHAIN GATE DEPOT 0755000000

13. GENERATOR HIRE IS REQUIRED FOR THE RTA SIGNAL CONTROL BOX No. 3022 LOCATED AT THE INTERSECTION OF THE PROSPECT HWY AND BLACKTOWN RD. GENERATOR HIRE MAY ALSO BE REQUIRED FOR THE RTA SIGNAL BOX LOCATED ADJACENT TO POLE 5. PLEASE CONTACT THE RTA ON 131700 FOR THE AUTHORISED RTA GENERATOR CONNECTION CONTRACTORS FOR THIS REGION AND TO CO-ORDINATE THE RELOCATION OF RTA ASSETS ON POLE 5

14. INSTALL NEW ABS ON POLE 8. A DANGER TAG IS ATTACHED TO THIS POLE WITH DESCRIPTION "LV OPEN BOND POINT". CONTACT NOEL CASTLE AT PENRITH DEPOT FOR FURTHER DETAILS PRIOR TO RECTIFYING

DUCT SCHEDULE

- FROM 'D' TO 'POLE 6' (EDGE OF CYCLEWAY TO BLACKTOWN RD) - 13m TRENCH & LAY 2 x 125mm HD DUCTS
- FROM 'D' TO 'C' (CYCLEWAY) - 3m UNDERBORE & LAY 2 x 125mm HD DUCTS & 2 x 50mm HD DUCTS
- FROM 'C' TO NEW PM SUB 23837 - 130m TRENCH & LAY 2 x 125mm HD DUCTS
- FROM NEW PM SUB 23837 TO COLUMN 240037 (FIFE ST) - 35m UNDERBORE AND LAY 6 x 125mm & 2 x 50mm HD DUCTS ALONGSIDE EXISTING SL CABLE/DUCT.
- COLUMN 4269 (ELTHAM ST) TO 'B' (JEM PL) - 35m UNDERBORE AND LAY 2 x 125mm & 2 x 50mm HD DUCTS
- FROM 'A' TO 'B' (JEM PL CROSSING) - 16m EXISTING 2 x 140mm & 2 x 100mm HD DUCTS
PROPERTY SIDE COVER 1.0M
- PILLAR 52475 (FIFE ST) TO PILLAR 52475 (FIFE ST) - 14.8m UNDERBORE AND LAY 2 x 125mm & 2 x 50mm HD DUCTS
- PILLAR 52475 (FIFE ST) TO COLUMN 240037 - 18m UNDERBORE AND LAY 2 x 125mm & 2 x 50mm HD DUCTS

SPARE DUCT WARNING

THIS EXCAVATION IS IN THE VICINITY OF DUCT WITH EXISTING CABLES AND DUCT WITH NEW CABLES.

4 WORKING DAYS BEFORE COMMENCING WORK

ENDEAVOUR ENERGY WARNING

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REBURYMENTS

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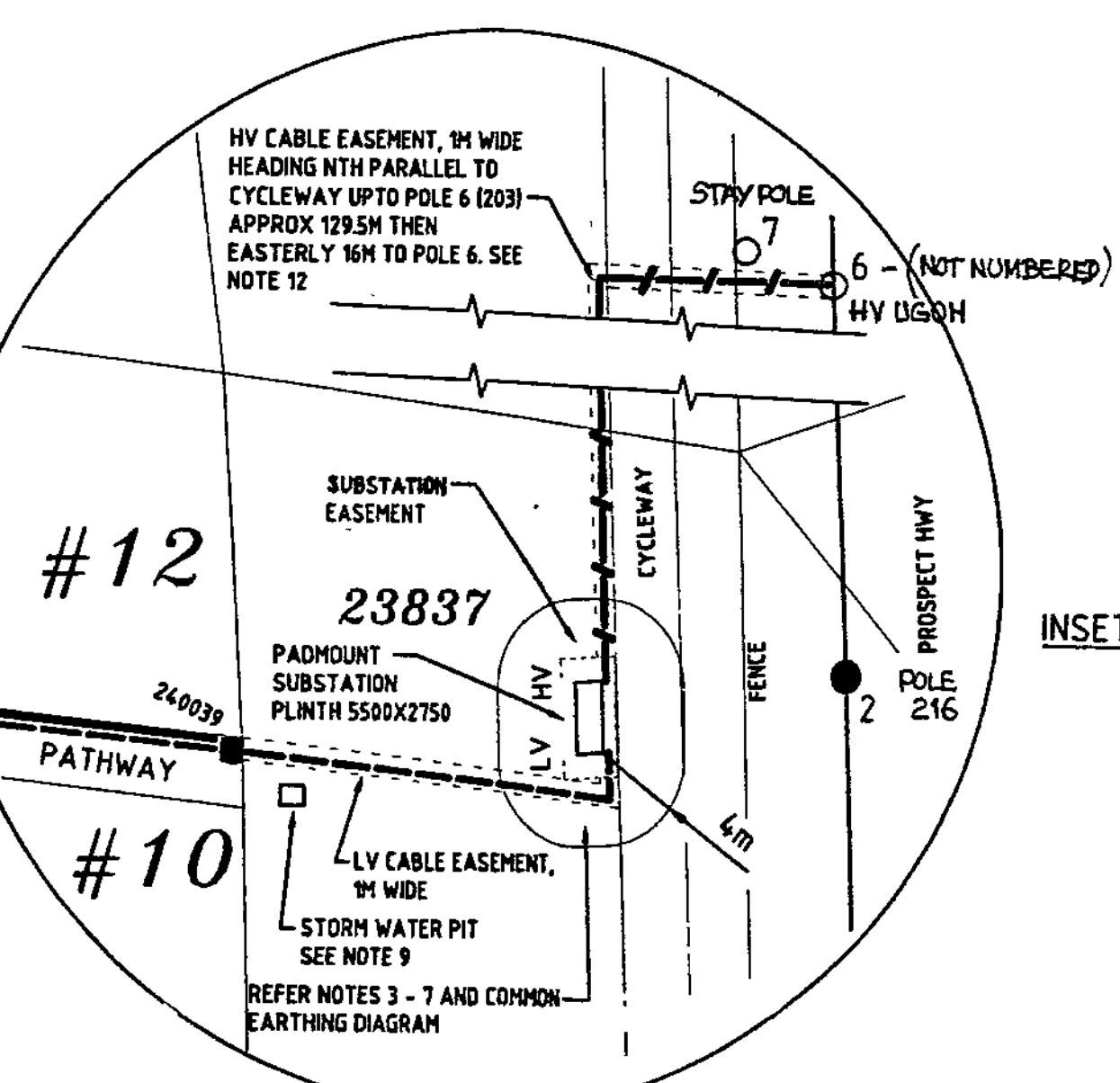
All Electrical apparatus shall be considered as live until proved to be de-energised. Contact with live electrical apparatus will cause severe injury or death

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LEGEND

- ESTABLISH NEW 500kVA PADMOUNT SUBSTATION No. 23837 COMPLETE WITH ABB "SAFELINK" CFC HV AND WEBER FFIF CATEGORY 1 LV SWGR
- EXISTING STREETLIGHT COLUMN
- EXISTING LOW VOLTAGE PILLAR
- HIGH VOLTAGE TRENCHING OR UNDERBORING (REFER DUCT SCHEDULE)
- LOW VOLTAGE TRENCHING (REFER DUCT SCHEDULE)
- EXISTING DUCTS
- NEW DUCTS
- EXISTING UNDERGROUND CABLE
- EXISTING OVERHEAD CABLE
- EXISTING POLE
- NEW POLE

COMMON EARTHING DIAGRAM
PM SUB 23837
DIMENSIONS IN mm



Design Compliance

This design complies with the Integral Energy's relevant standards as current at this time and as listed on the Integral Energy Accredited Service Provider's Internet site. These standards include, but are not limited to:

GT&C - General Terms and Conditions
EMS - Environmental Management Standard
MCI - Mains Construction Instruction
MDI - Mains Design Instruction
PDI - Protection Design Instruction
SDI - Substation Design Instruction
SAD 0001 - Design Drawing Standard
MMI - Mains Maintenance Instruction
SMI - Substation Maintenance Instruction

Additionally, where relevant, the design complies with C(b)-1 "Guideline for Design and Maintenance of Overhead Distribution and Transmission Lines" published by ESAA and other relevant Australian Standards

Signed: _____
Name: _____
Service Number: _____
Date: 22/11/2013

33kV TRANSMISSION O/H MAINS LOCATED IN THE VICINITY OF THIS PROJECT ON THE EASTERN SIDE OF BLACKTOWN RD.

NO SUPPLY OUTAGE TO BE GIVEN AS PART OF THIS PROJECT. GENERATORS MAY NEED TO BE UTILISED TO MAINTAIN SUPPLY TO CUSTOMERS. GENERATORS WILL BE REQUIRED FOR THE RTA TRAFFIC CONTROL BOX - SEE NOTE 13.

28143 / 1
5 4 06 30 6 / 06
C. GOODMAN
REPAIRED BY IEC - INFRASTRUCTURE

DEFECT TABLE

DEFECT W/O	DEFECT DESCRIPTION	DEFECT LOCATION
00129659	REPAIR/REPLACE STREETLIGHT	POLE 203, BLACKTOWN RD, BLACKTOWN
00129672	REPLACE CONDEMNED POLE	POLE D184.3 BLACKTOWN RD, PROSPECT
00129665	INSTALL LV SPREADERS	POLE A191, BLACKTOWN RD, BLACKTOWN
00129690	INSTALL LV SPREADERS	POLE 258, LANCELOT ST, BLACKTOWN
00129666	INSTALL LV SPREADERS	POLE A186, BLACKTOWN RD, BLACKTOWN

FIELD POLE NUMBER	REMOVE EXISTING BRACKET	SPAN LENGTH	LINE DEF DEGREES	HY	LV	DIA mm	DEPTH m	TYPE	STAY	FOOTING	RELOCATE	REPLACE	NEW	REMOVE	NUMBER
211	X														9
771164															8
771163			-115												7
203	X			24 - UG/H											6
208	X			23											5
209	X														4
216	X														3
218	X														2
															1

WORK ORDERS

OH W/O = 01735475
UG W/O = 01735485
SS W/O = 01735486

REFERENCE DRAWING	CAP No	N/A	FILE No	ORIGINAL SCALE
IE PROJ No	MNS48		BLACKTOWN	1000
HY SWITCHING			HV GEO MAP 9160	T.S.B
OVERHEAD MAINS			GIS MAP No 9160-11	
UNDERGROUND MAINS			UBD REF 189 A9	
SUBSTATIONS			HV OP DIAG LEABONS LANE 1 C13	

INTEGRAL ENERGY

ELTHAM ST BLACKTOWN MNS48

QUALITY OF SUPPLY INVESTIGATION

SCANNED A1 281413 A

SHEET No 1 OF 2 SHEETS

281413 / 1

6-12-05
AL1
CER-0511301

WORKS COMPLETED

CONSTRUCTED BY _____

WORKS COMPLETED _____ NAME _____

SIGNED _____ DATE _____

INSPECTED BY _____

NAME _____ DATE _____

SIGNED _____ DATE _____

FORWARDED TO ENGINEERING PERFORMANCE

LOCATION _____

SIGNED _____ DATE _____

"IMPORTANT"

1. ALL alterations to this Project Drawing by the Construction crews **MUST** be marked in RED daily by the responsible Foreman on the 'Works in Progress' drawing held in the Construction office

2. A **FINAL** field inspection with the above Drawing was carried out and is built as shown.

Name _____ please print please sign Foreman O/H

Name _____ please print please sign Foreman U/G

Name _____ please print please sign Foreman subs

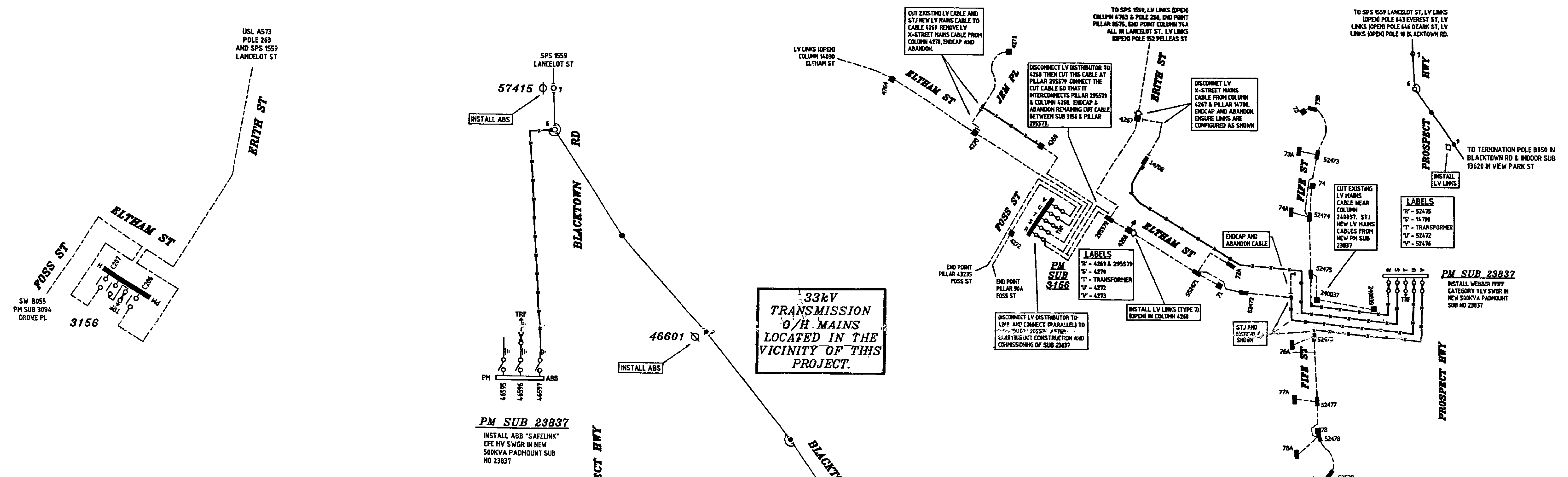
NOTES

1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE FOLLOWING INTEGRAL ENERGY DOCUMENTS.
SD1 100 (SUBSTATION DESIGN INSTRUCTION - DISTRIBUTION SYSTEM EARTHING REQUIREMENTS)
SD1 101 (SUBSTATION CONSTRUCTION GUIDELINES)
SD1 104 (SPECIFICATION OF REQUIREMENTS FOR THE LOCATION OF PADMOUNT SUBSTATIONS)
SAD 0001 (PROJECT DRAWING STANDARD)

2. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH INTEGRAL ENERGY'S MDI 0020.

3. INSTALL ABB "SAFELINK" CFC HV AND WEBER FRFF CATEGORY 1 LV SWITCHGEAR IN NEW 500KVA PADMOUNT SUBSTATION No. 23837.

4. IDENTIFICATION OF CABLES, FACING FROM THE FOOTPATH SIDE, LEFT SIDE CABLE SHOWN AS ONE DOT, RIGHT SIDE CABLE SHOWN AS TWO DOTS, A THIRD CABLE OR FUTURE CABLE IRRESPECTIVE OF DIRECTION SHOWN AS THREE DOTS.



FINAL H.V. CIRCUIT

--- EXISTING UNDERGROUND MAINS

— EXISTING OVERHEAD MAINS

— LAY NEW 11kV 3C 240mm sq HV AL XLPE/PVC/DPE
R.L. 165m C.L. 182m

— STRAIGHT THROUGH JOINT

○ HV ISOLATION POINT (AIR BREAK SWITCH)

○ EXISTING POLE

○ NEW POLE

○ HV UGOH

FINAL L.V. CIRCUIT

--- EXISTING UNDERGROUND CABLE

— LAY 240 sq. mm Al 4C XLPE/PVC CABLE IN DUCT (REFER DUCT SCHEDULE)
R.L. 357m C.L. 392m

■ EXISTING LV PILLAR

□ NEW LV PILLAR

■ EXISTING STREETLIGHT COLUMN

◇ LOW VOLTAGE LINKS (OPEN)

○ LOW VOLTAGE LINKS (CLOSED)

○ NEW POLE

WARNING

THIS EXCAVATION IS IN THE VICINITY OF ENDEAVOUR ENERGY TRANSMISSION, PILOT, COMMUNICATION OR FIBRE OPTIC CABLES. PLEASE RING 9853 7121 or MOB. 0407 468 525 4 WORKING DAYS BEFORE COMMENCING WORK

ENDEAVOUR ENERGY WARNING

This plan shows the approximate location of underground cables relative to fixtures existing when the cables were laid, and has been prepared solely for Endeavour's own use. Endeavour Energy has taken all reasonable steps to ensure that the information is as accurate as possible but will accept no liability for inaccuracies in the information shown on such plans from any cause whatsoever arising.

Persons excavating are expected to exercise all due care in the vicinity where cables are indicated and will be held responsible for any damage caused to Endeavour Energy's Property

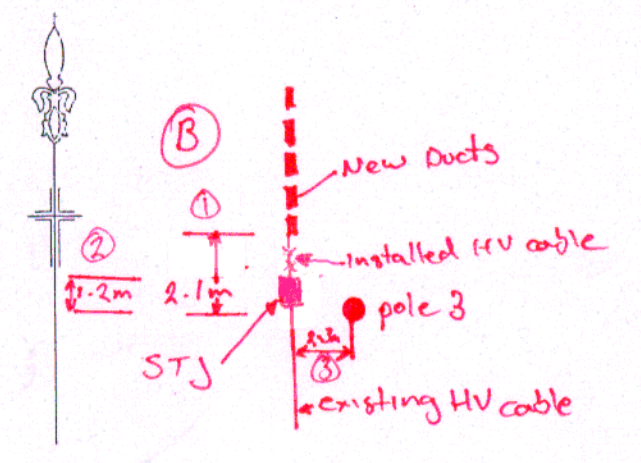
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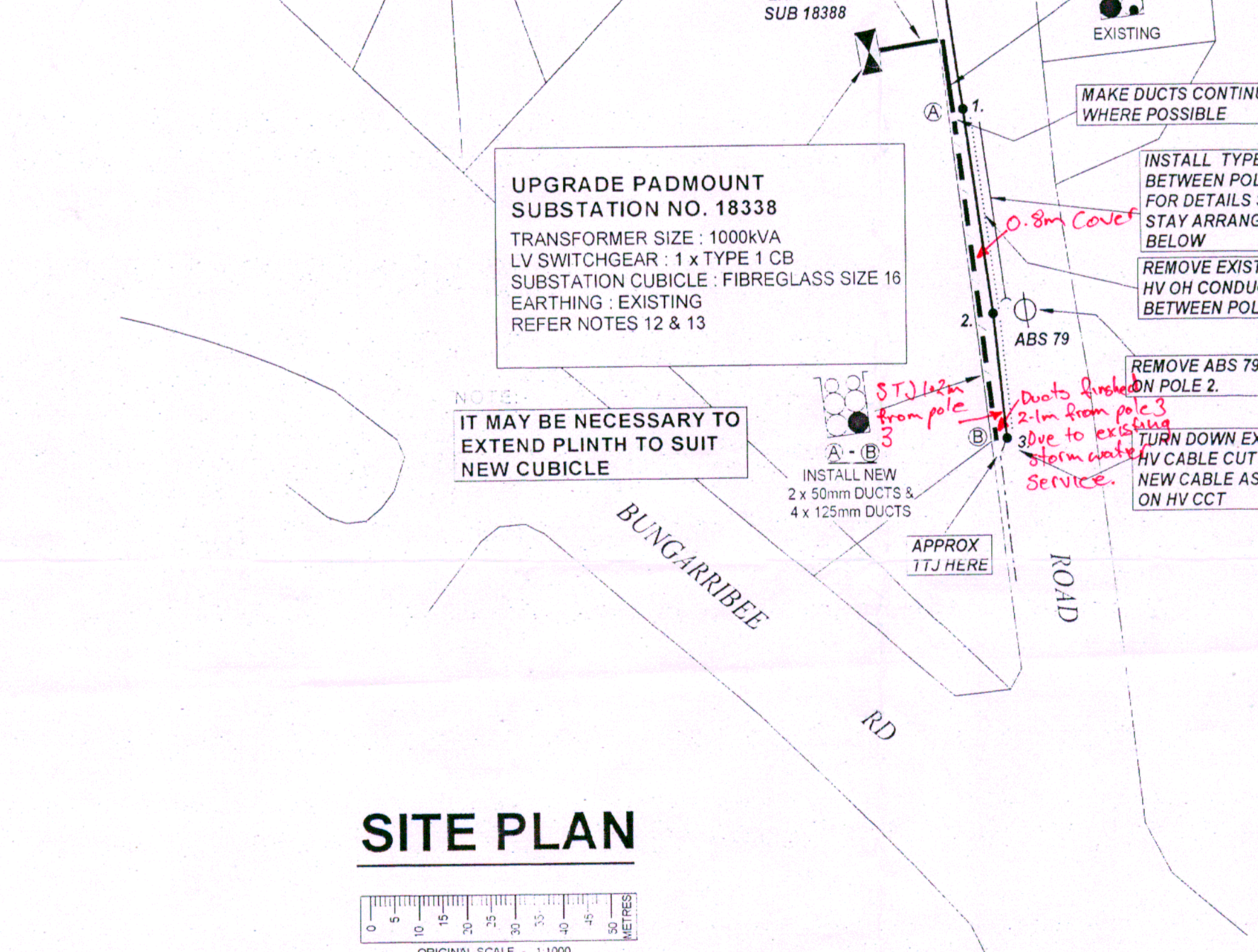
REFERENCE DRAWING	CAP No	N/A	FILE No	BLACKTOWN	ORIGINAL SCALE 1000	DO NOT SCALE DIMENSIONS IN METRES	INTEGRAL ENERGY ELTHAM ST BLACKTOWN MN548 QUALITY OF SUPPLY INVESTIGATION	A1	281413	A
	E PRJ No	MNS48	LG AREA	BLACKTOWN	DRAWN T.S.B.	DESIGN T.S.B.				
	HV SWITCHING		HV GED MAP	9160	DATE	13/10/2005				
	OVERHEAD MAINS		GIS MAP No	9160-11						
	UNDERGROUND MAINS		UBD REF	189 A9						
	SUBSTATIONS		HV OP DIAG	LEABONS LANE 1 CB	DVD					

281413 / 2
5.4.106
C. GOODMAN
TEC - INFRASTRUCTURE

281413 / 2



- ① installed ducts finish 2-1m from pole 3 due to existing stormwater service.
- ② From pole 3 to centre of STJ 1-2m
- ③ From pole 3 across to STJ and ducts/cables 2-3m.



UPGRADE PADMOUNT SUBSTATION NO. 18338
 TRANSFORMER SIZE : 1000kVA
 LV SWITCHGEAR : 1 x TYPE 1 CB
 SUBSTATION CUBICLE : FIBREGLASS SIZE 16
 EARTHING : EXISTING
 REFER NOTES 12 & 13

IT MAY BE NECESSARY TO EXTEND PLINTH TO SUIT NEW CUBICLE

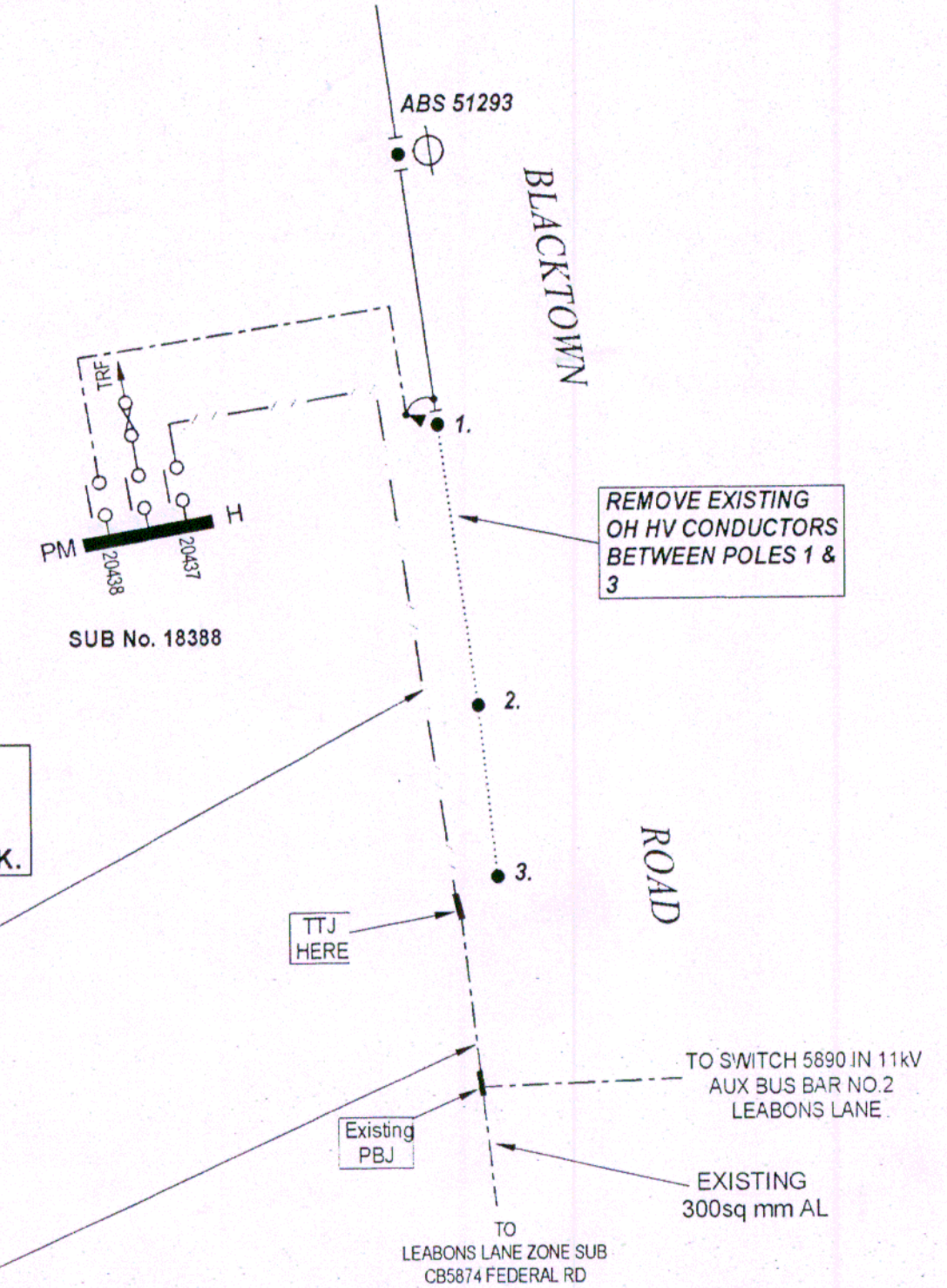
SITE PLAN LEGEND

- EXISTING SUBSTATION LOCATION
- HV ISOLATION POINT - ABS (AIR BREAK SWTCH)
- EXISTING POLE
- EXISTING UNDERGROUND MAINS
- EXISTING OVERHEAD CONDUCTOR
- REMOVE EXISTING OH CONDUCTORS
- SPARE DUCT
- DUCT WITH NEW CABLE
- DUCT WITH EXISTING CABLE
- HIGH VOLTAGE TRENCHING
- EXISTING DUCTS
- ARIAL STAY

NOTE:
 FIRST CONNECTION FROM ZONE SUBSTATION. CONTRACTOR IS TO MAKE CABLE READY FOR CONNECTION. INTEGRAL ENERGY IS TO MAKE CONNECTION AND UNDERTAKE PHASING CHECK.

THIS CABLE IS THE FIRST BAY FROM A ZONE SUBSTATION. ENSURE STAFF HAVE THE APPROPRIATE LEVEL OF COMPETENCY AND THAT THE APPROPRIATE JOINTING PROCEDURES AND TESTS ARE FOLLOWED. REFER TO SCOPE OF WORKS AND GENERAL TERMS AND CONDITIONS CLAUSE 1.5.1. (SPJ 4004) A QUOTATION FOR THE TESTING WILL BE REQUIRED FROM INTEGRAL ENERGY'S METER AND TEST BRANCH.

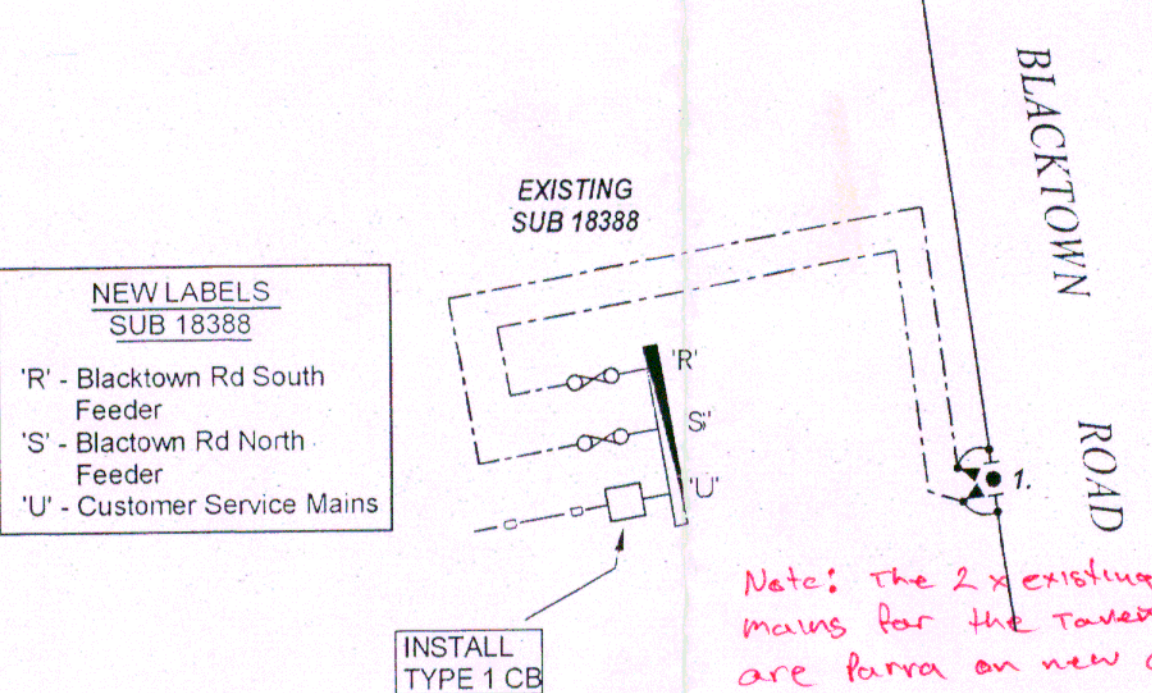
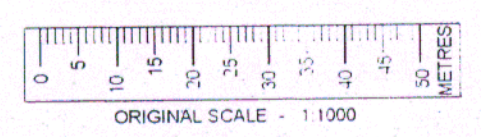
AS THIS IS THE FIRST CABLE FROM A ZONE SUBSTATION. INTEGRAL ENERGY'S NETWORK STANDARD BRANCH IS TO ADVISE WHETHER HV CABLE SHEATH/SCREEN/ARMOUR IS TO BE BONDED TO PADMOUNT EARTH. IF NOT BONDED, HV CABLE SHEATH/SCREEN/ARMOUR IS TO BE TAPED WITH 2 HALF LAP LAYERS OF PVC TAPE TO PREVENT PERSONAL CONTACT. REFER SDI 100 FOR DETAILS.



FINAL H.V. CIRCUIT

- EXISTING O.H. CABLE
- EXISTING U.G. CABLE
- LAY 240sq mm Cu 3c XLPE/PVC/HDPE Cable
 R.L. = 69 m C.L. = 76 m
 REMOVE OH CONDUCTORS
 R.L. = 69m C.L. = 207m

SITE PLAN



FINAL L.V. CIRCUIT

- PROPOSED SERVICE MAINS (BY OT (REFER NOTE 2))
- EXISTING O.H. CABLE
- EXISTING U.G. CABLE

FIELD BOOK 309824-A
 COMM 15.9.16
 UG MAP No. R. Parry
 RECORDED BY R. Parry
 INSTALLED BY Connect Construction

Design Compliance and Indemnity

This design complies with Integral Energy's relevant standards as current at this time and as listed on the Integral Energy Accredited Service Provider's internet site. These standards include, but are not limited to:

- GT&C: General Terms and Conditions
- EIMS: Environmental Management Standard
- MCI: Mains Construction Instruction
- MDI: Mains Design Instruction
- PDI: Protection Design Instruction
- SDI: Substation Design Instruction
- SAD 0001: Design Drawing Standard
- MMI: Mains Maintenance Instruction
- SMI: Substation Maintenance Instruction

Additionally, where relevant, the design complies with C(b)-1 "Guideline for Design and Maintenance of Overhead Distribution and Transmission Lines" published by ES&A and other relevant Australian Standards.

Connect Design Pty Ltd indemnifies Integral Energy for any loss or damage resulting from non-compliance of the design with the above standards.

Signed: *Timothy Vergara* Name: Timothy Vergara
 Service Provider Number - 1104 Date: 07.12.16

WORKS COMPLETED	CONSTRUCTED BY	SIGNED	DATE
CONSTRUCTED BY Connect	CONSTRUCTED BY Connect	<i>Grant Richards</i>	23.7.17
INSPECTED BY R. Parry	INSPECTED BY R. Parry	<i>R. Parry</i>	12.5.17

ATTENTION IMPORTANT NOTES

1. THIS DRAWING TO BE READ IN CONJUNCTION WITH INTEGRAL ENERGY'S NETWORK STANDARDS AND THE GENERAL TERMS AND CONDITIONS.
2. ALL SERVICE WORK TO BE INSTALLED IN ACCORDANCE WITH AS3000:2000 AND THE NSW SERVICE AND INSTALLATION RULES
3. THE PREPARATION OF THIS DESIGN, HAS BEEN UNDERTAKEN GIVING DUE CONSIDERATION TO THE EXISTING SERVICES. THE PROJECT CONSTRUCTOR IS, HOWEVER, WHOLLY RESPONSIBLE FOR VERIFYING THE EXACT LOCATION OF EXISTING SERVICES AND PERMANENT SURVEY MARKS BEFORE CONSTRUCTION COMMENCES, AND NO RESPONSIBILITY NOR LIABILITY WILL BE ACCEPTED BY THE DESIGNER OF THIS PROJECT FOR DAMAGE TO EXISTING SERVICES AS A RESULT OF THIS DESIGN AND/OR POLE PEGGING.
4. UNLESS APPROVED OTHERWISE, INTERRUPTIONS TO ANY CUSTOMER'S SUPPLY MUST BE AVOIDED. THE FOLLOWING ALTERNATIVES SHOULD BE CONSIDERED:
 - MOBILE GENERATORS OR SUBSTATIONS
 - LIVE LINE WORK
 - DESIGN ALTERNATIVES
 - WORK PRACTICES/STANDARDS
 - LOW VOLTAGE PARALLELS
 THE COST IS TO BE FUNDED BY THE CUSTOMER/DEVELOPER
5. ALL SERVICES SEARCHES MUST BE CHECKED BEFORE CONSTRUCTION.
6. LIVE INTEGRAL ENERGY CABLES & SERVICES IN THIS AREA. LOCATE PRIOR TO DIGGING. CONTACT 'DIAL BEFORE YOU DIG' TELEPHONE 1100 FOR SERVICES TWO DAYS PRIOR TO EXCAVATION.
7. TELSTRA AND OPTUS TO BE NOTIFIED OF PROPOSED WORK PRIOR TO CONSTRUCTION.

CONTACTS: TELSTRA - STEVE HUGGETT	OPTUS - CHRIS STEELE
8851 3523 (PH)	9737 5625 (PH)
8851 3637 (FAX)	9737 5613 (FAX)
0407 993 614 (M)	0411 254 394 (M)
8. SERVICE PROVIDER TO NOTIFY INTEGRAL ENERGY'S NETWORK DATA DAILY WHEN CABLE WORKS IS IN PROGRESS. TELEPHONE 131 081
9. DESIGN CERTIFICATION SHALL LAPSE WHERE:
 - (i) NOTICE OF INTENT HAS NOT BEEN RECEIVED WITHIN SIX (6) MONTHS OF THIS CERTIFICATION OR
 - (ii) CONSTRUCTION HAS BEEN INTERRUPTED FOR MORE THAN SIX (6) MONTHS. WHERE DESIGN CERTIFICATION HAS LAPSED, THE DESIGN MUST BE RESUBMITTED FOR CERTIFICATION BY THE ACCREDITED LEVEL 3 SERVICE PROVIDER.
10. INTEGRAL ENERGY MATERIALS TO BE RETURNED TO CLOSEST INTEGRAL ENERGY DEPOT
11. DO NOT PLACE ANY RELIANCE ON ANY QUANTITIES OR DIMENSIONS GIVEN IN THIS DRAWING QUANTITIES AND DIMENSIONS GIVEN ON THIS DRAWING ARE BASED ON DESIGN INFORMATION AND SITE CONDITIONS AT THE TIME OF DESIGN. AS QUANTITIES AND DIMENSIONS ARE SUBJECT TO CHANGE, THE BUILDER OF THIS PROJECT MUST CHECK ALL QUANTITIES AND DIMENSIONS ON SITE PRIOR TO TENDERING AND PRIOR TO CONSTRUCTION.
12. SUBSTATION TO BE INSTALLED IN ACCORDANCE WITH SDI 104.
13. EARTHING OF THE SUBSTATION TO BE CARRIED OUT IN ACCORDANCE WITH INTEGRAL ENERGY SDI 100. COMMON EARTHING PREFERRED AND PREDICTED.
14. CONSTRUCTOR TO CONFIRM FINISHED GROUND LEVELS WITH DEVELOPER PRIOR TO COMMENCING CONSTRUCTION.

WARNING
 THIS EXCAVATION IS IN THE VICINITY OF ENDEAVOUR ENERGY TRANSMISSION, PILOT COMMUNICATION OR FIBRE OPTIC CABLES. PLEASE RING 9953 7121 or NOB. 0407 468 626 4 WORKING DAYS BEFORE COMMENCING WORK

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ARIAL STAY ARRANGEMENT

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AUTHORISATION OF ESTIMATED VALUE OF INTEGRAL ENERGY FUNDED ASSETS	CERTIFIED BY INTEGRAL ENERGY
Signed: <i>Timothy Vergara</i> Prm Name: TIMOTHY VERGARA Service Number: 23469 Funding Amount: \$ 32,500.00 Date: 20/07/2017	Amendment: A Date Approved: 5.1.17 Examiner's Signature: <i>Angus Henry</i> This certification is issued subject to Integral Energy's Standard Certification Terms.

connect
 Connect Engineering Pty Ltd
 Connect Design Pty Ltd
 Electrical Infrastructure
 Consultancy, Design &
 Construction

Tel: 02 9733 3333
 Fax: 02 9733 3330
 E-mail: mail@connecteng.com.au PO Box 484, Casula NSW 2170
 Lot 305 Progress Cct, Prestons NSW 2170

connect REF NUMBER
**H807
 E1-08**

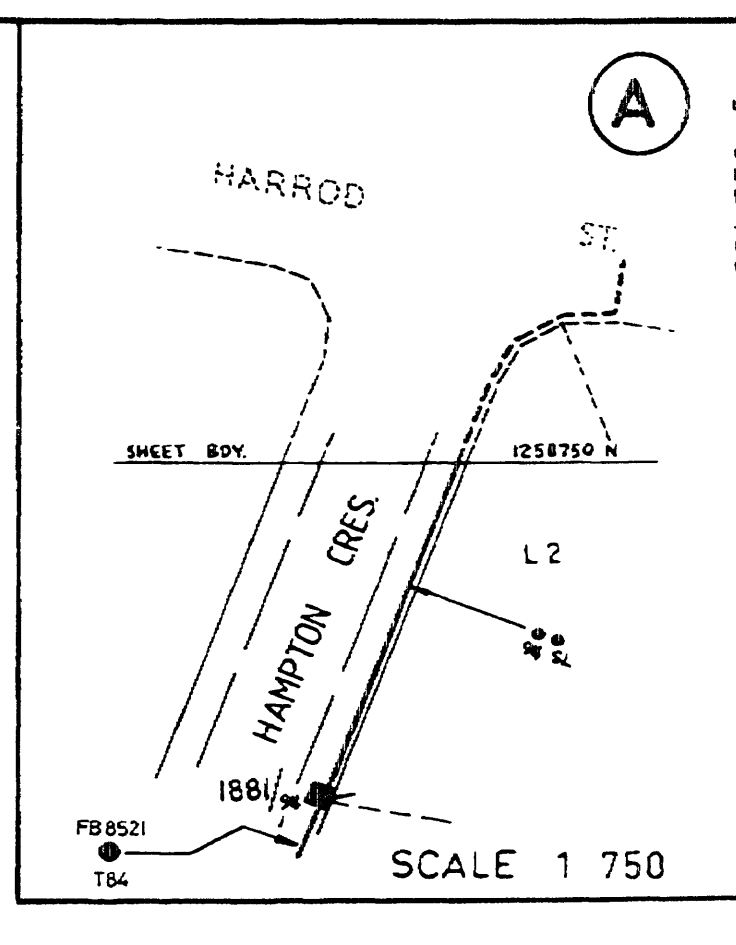
REFERENCE DRAWINGS	ORIGINAL SCALE	GIS/4P/12	9100 73
DRAWN J.L. 3/8/06	1:1000 OR AS SHOWN	SHEET 1 OF 1	A1
CHECKED G.S.		MAP 185 B3	
DESIGN T.J.V.		BLACKTOWN	
		CENTRAL	
		HV CP D4G	LEABONS LANE 2 U4

ASP Level 1 Electrical Works		Customer
Integral Energy Supplied Materials	Customer Funded Non-Contestable works	Customer Funded
- 1 x 1000kVA Transformer	Zone substation - first feeder and joint out of a Zone Substation: Labour & Plant GST inclusive price	Includes but not limited to: - Providing site access - Own service & service connection - Confirm finished ground levels
Integral Energy Funded and Constructed	Materials	Co-ordination Supply Required Date (To be confirmed with Project Manager) Day Mth Yr
- Nil	First STJ out of zone substation: \$1,599.85 Provision of Access Fee (Standby): \$56.00/hr Straight through joint kit: \$629.64 (IE Regions to provide costs) Inspection and Access Authority - System Switching - Provision of Access Authority (As per Fee Letter sent by IE's CWAs)	Material Returns to Nearest Integral Energy Work Depot by Level 1 ASP
Integral Energy Funded and ASP L1 Constructed - Reimbursement	Customer Funded Contestable works	- 207m x HV OH Conductors - 1 x ABS - 1 x Transformer
- 138m of 125mm ducts @ \$19/m - 138m of 50mm ducts @ \$6/m Total reimbursement = \$ 3450	All other works and materials including but not limited to: - Trenching - Duct installation - Cable laying and/or installations - Joining - Remove HV OH mains - Install arial stay	

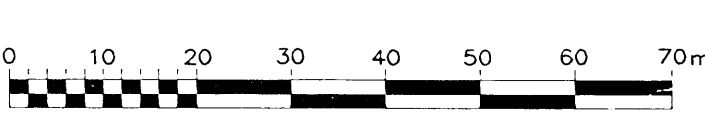
FIELD POLE NUMBER	EXISTING	REPLACE	INSTALLING HEIGHT (m)	BRACKET	SPAN LENGTH (m)	LINE DEV DEGREES	HV	LV	DIAMETER (mm)	DEPTH (m)	TYPE	STAY	FOOTING	REPLACE	NEW	EXISTING	REMOVE	NUMBER	
1940																		X	3
1939																		X	2
2938						26	EXISTING					X						X	1

80 BLACKTOWN ROAD (BLACKTOWN INN)
 BLACKTOWN
 UCL3790
 ELECTRICAL RETICULATION PLAN

309824
 I.E. DRG No. **A1**



SCANNED



ISSUE DATE: 16.7.97
13-1-2000

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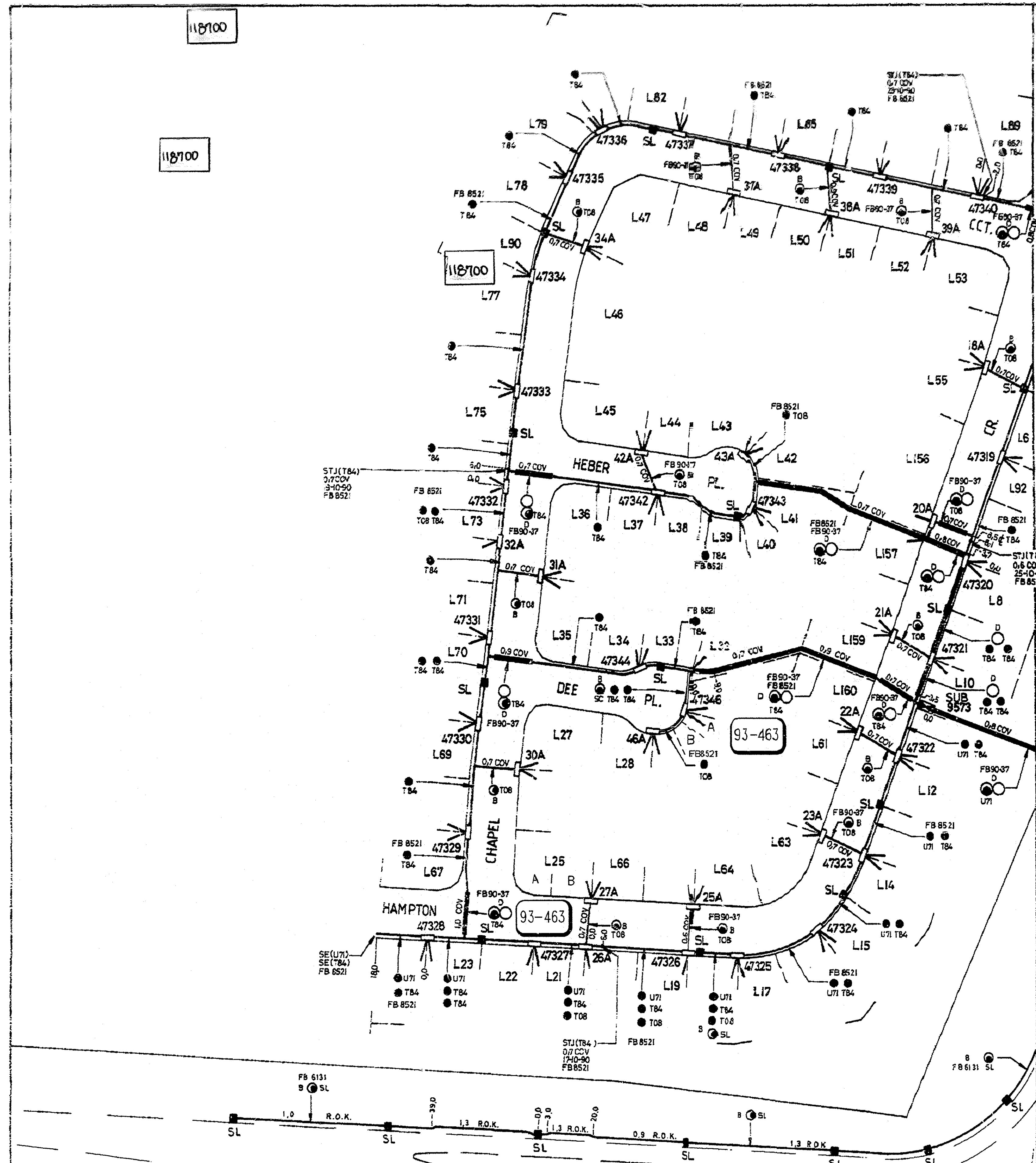
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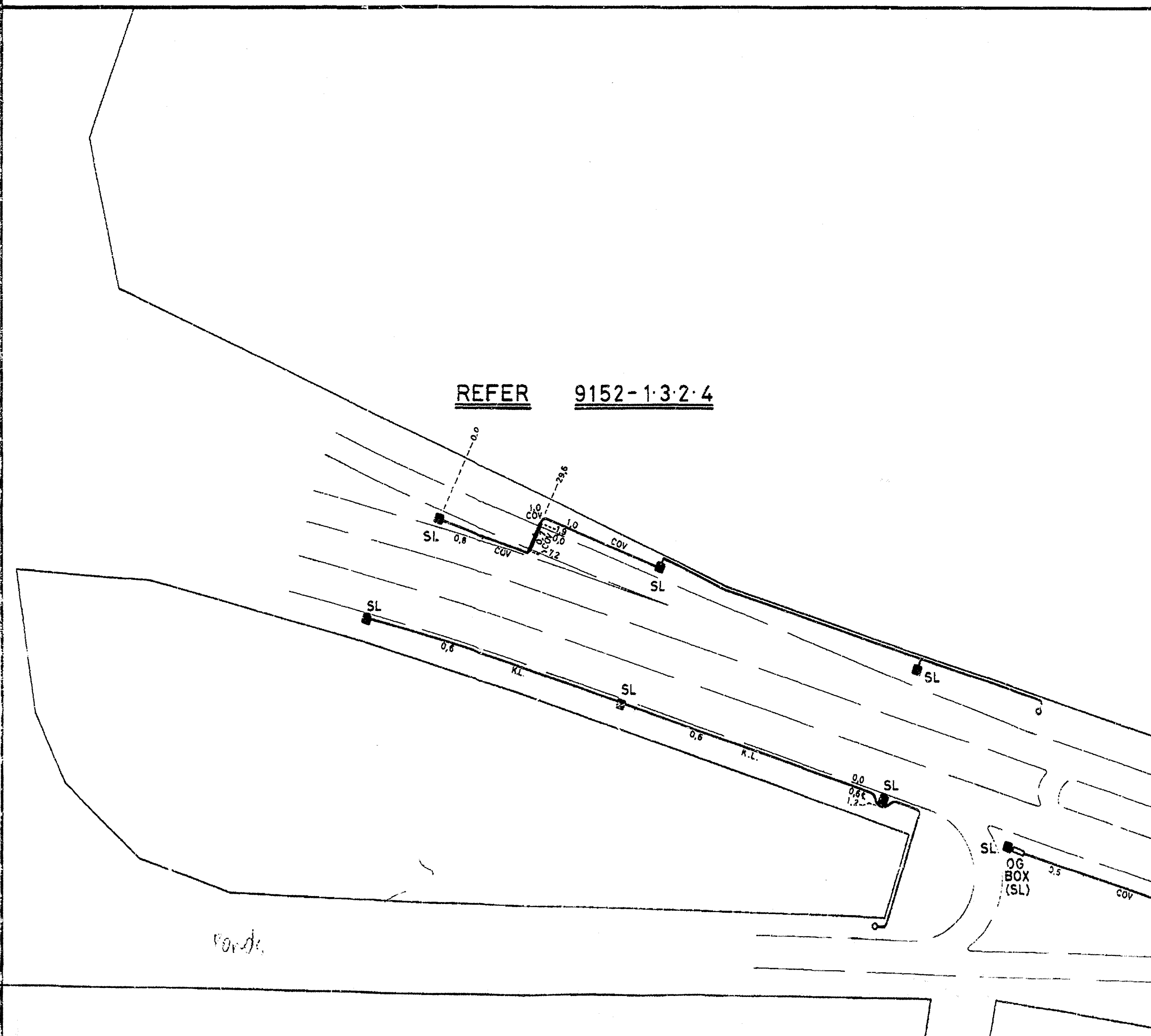
CODE	CABLE NO.	TYPE	FB	CONC.	CONC. NO.	TYPE	FB	CABLE NO.	TYPE	FB	CABLE NO.	TYPE	FB	REVISION	LEGEND
80	3290	2 CORE AC + XLPE	35/11	05	1000	1	11.5V ALFA	1100	1	11.5V ALFA	1100	1	11.5V ALFA	1	1" PVC CONDUIT (125mm)
81	3291	2 CORE AC	35/11	05	1000	1	11.5V ALFA	1100	1	11.5V ALFA	1100	1	11.5V ALFA	1	1" PVC CONDUIT (125mm)
82	3292	1.5 11.5V ALFA	35/11	05	1000	1	11.5V ALFA	1100	1	11.5V ALFA	1100	1	11.5V ALFA	1	1" PVC CONDUIT (125mm)
83	3293	1.5 11.5V ALFA	35/11	05	1000	1	11.5V ALFA	1100	1	11.5V ALFA	1100	1	11.5V ALFA	1	1" PVC CONDUIT (125mm)
84	3294	2 CORE AC	35/11	05	1000	1	11.5V ALFA	1100	1	11.5V ALFA	1100	1	11.5V ALFA	1	1" PVC CONDUIT (125mm)
85	3295	1.5 11.5V ALFA	35/11	05	1000	1	11.5V ALFA	1100	1	11.5V ALFA	1100	1	11.5V ALFA	1	1" PVC CONDUIT (125mm)
86	3296	2 CORE AC	35/11	05	1000	1	11.5V ALFA	1100	1	11.5V ALFA	1100	1	11.5V ALFA	1	1" PVC CONDUIT (125mm)
87	3297	2 CORE AC	35/11	05	1000	1	11.5V ALFA	1100	1	11.5V ALFA	1100	1	11.5V ALFA	1	1" PVC CONDUIT (125mm)
88	3298	2 CORE AC	35/11	05	1000	1	11.5V ALFA	1100	1	11.5V ALFA	1100	1	11.5V ALFA	1	1" PVC CONDUIT (125mm)
89	3299	2 CORE AC	35/11	05	1000	1	11.5V ALFA	1100	1	11.5V ALFA	1100	1	11.5V ALFA	1	1" PVC CONDUIT (125mm)
90	3300	2 CORE AC	35/11	05	1000	1	11.5V ALFA	1100	1	11.5V ALFA	1100	1	11.5V ALFA	1	1" PVC CONDUIT (125mm)

- NOTES:
1. ALL CABLES ARE 0.6 FROM PROPERTY LINE AND ARE AT D.5 COVER UNLESS OTHERWISE SHOWN
 2. ALL ROAD CROSSING DUCTS ARE FROM KERB TO KERB UNLESS OTHERWISE SHOWN
 3. LENGTHS IN METRES

PROSPECT COUNTY COUNCIL		U.G. RETICULATION	BLACKTOWN SOUTH
DATE	17-5-82	SCALE	1:750
CHECKED	AW	DATE	6-5-74
SUP D'MAN	AW	9152-1-1-4	



REFER 9152-1-3-2-2



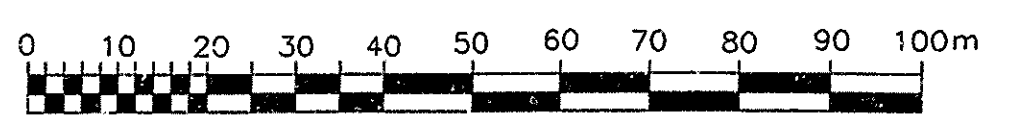
REFER 9152-1-3-2-4

- NOTES:
1. CABLES 0.6 FROM PROPERTY LINE, 0.6 COVER UNLESS OTHERWISE SHOWN.
 2. LENGTHS IN METRES.

CABLE LEGEND		DUCT LEGEND	
SL	STREET LIGHT CONDUCTOR	B	60 PVC CONDUIT
SC	SERVICE CABLE	C	100 PVC CONDUIT
SF	SERVICE FEEDER - 50 mm Cu. PVC/PVC	D	125 PVC CONDUIT
		E	100 FIBRO CONDUIT
		F	140 FIBRO CONDUIT

CABLE SCHEDULE							
CODE	CABLE No.	TYPE	FB	CODE	CABLE No.	TYPE	FB
L71	185mm	11kv AL XLPE		T08	25mm	LV CU PVC/PVC	
				T84	240mm	LV AL XLPE	

FB	LOCATION	CH'D	DATE
1003	5893 GT. WESTERN HWY	JR	1-5-96
619	GT. WESTERN HWY	RJ	15-2-98
8521	HAMPTON CRES.	SK	19-2-91
9696	CHURCH LANE	DGT	22-9-92



ISSUE DATE: 28/01/04
25/5/94

CHECKED 3/11/95

WARNING
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THE PROSPECT COUNTY COUNCIL
U.G. RETICULATION
PROSPECT

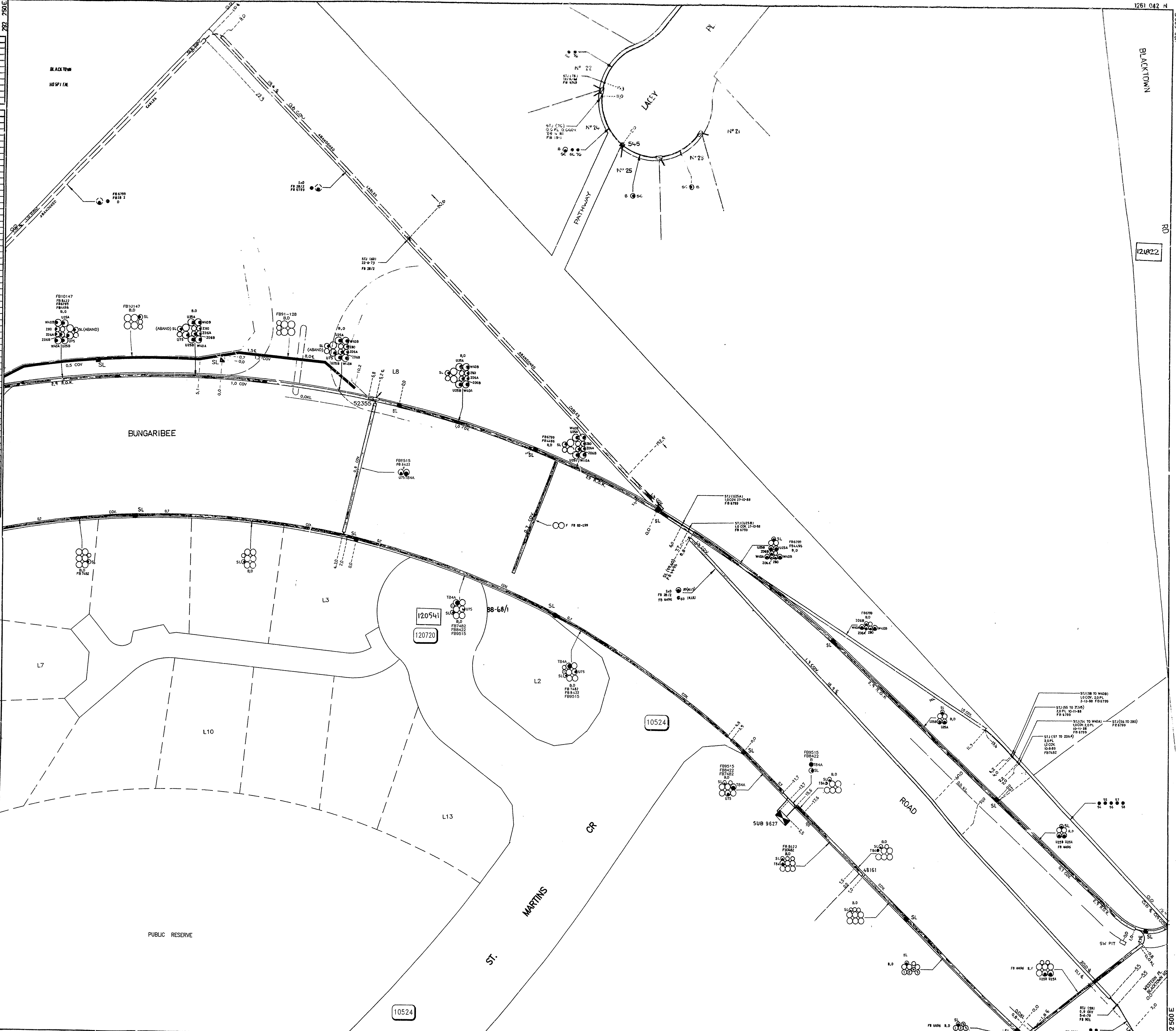
DRAWN	R MCK	SCALE	DATE
CHECKED	3/11/95	1:1000	
CO-ORD		9152-1-3-2	
D'SERV.			



NOTES:
 1. CABLES 0,6 FROM PROPERTY LINE, 0,6 COVER UNLESS OTHERWISE SHOWN.
 2. LENGTHS IN METRES.

NO.	SYMBOL	DESCRIPTION
1	(Symbol)	100mm PVC CONDUIT
2	(Symbol)	100mm PVC CONDUIT
3	(Symbol)	100mm PVC CONDUIT
4	(Symbol)	100mm PVC CONDUIT
5	(Symbol)	100mm PVC CONDUIT
6	(Symbol)	100mm PVC CONDUIT
7	(Symbol)	100mm PVC CONDUIT
8	(Symbol)	100mm PVC CONDUIT
9	(Symbol)	100mm PVC CONDUIT
10	(Symbol)	100mm PVC CONDUIT

NO.	TYPE	SIZE	DEPTH	COVER	MARKING
1	100mm PVC CONDUIT	100mm	100mm	100mm	100mm
2	100mm PVC CONDUIT	100mm	100mm	100mm	100mm
3	100mm PVC CONDUIT	100mm	100mm	100mm	100mm
4	100mm PVC CONDUIT	100mm	100mm	100mm	100mm
5	100mm PVC CONDUIT	100mm	100mm	100mm	100mm
6	100mm PVC CONDUIT	100mm	100mm	100mm	100mm
7	100mm PVC CONDUIT	100mm	100mm	100mm	100mm
8	100mm PVC CONDUIT	100mm	100mm	100mm	100mm
9	100mm PVC CONDUIT	100mm	100mm	100mm	100mm
10	100mm PVC CONDUIT	100mm	100mm	100mm	100mm



SCANNED

0 5 10 15 20 25m

ISSUE DATE: 21.8.95
 20-1-95
 24-1-96

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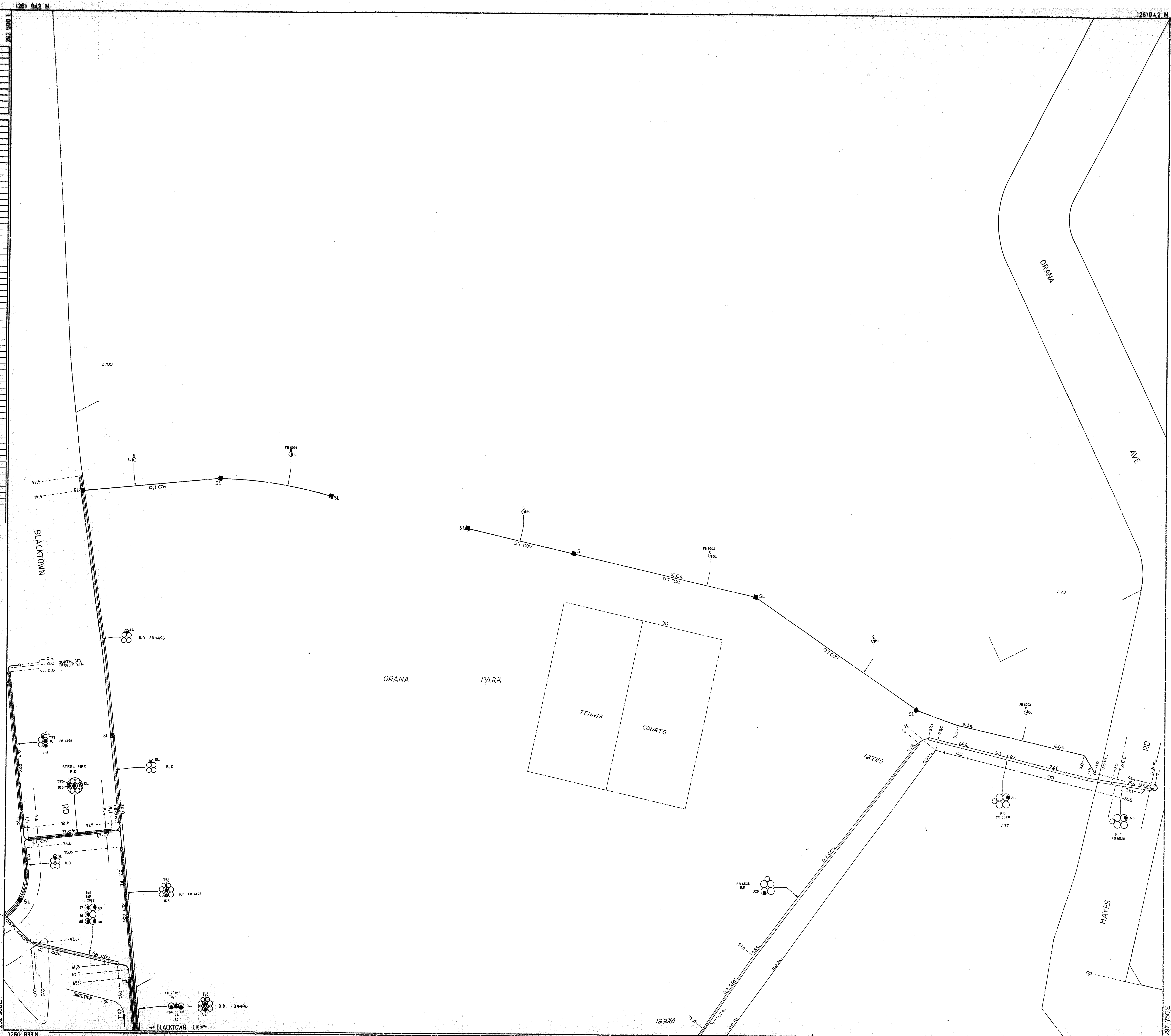
REVISIONS		REVISIONS		REVISIONS		REVISIONS		REVISIONS		REVISIONS		REVISIONS		REVISIONS	
NO.	DATE	NO.	DATE	NO.	DATE	NO.	DATE	NO.	DATE	NO.	DATE	NO.	DATE	NO.	DATE

PROSPECT COUNTY COUNCIL
 U.G. RETICULATION
 BLACKTOWN
 DRAWN: [Signature]
 CHECKED: [Signature]
 CO-ORD: [Signature]
 D'SERV: [Signature]
 SCALE: 1:250
 DATE: 20-8-82
 9160-7-3-2-6

NOTES:
 1. CABLES 0.6 FROM PROPERTY LINE, 0.6 COVER UNLESS OTHERWISE SHOWN.
 2. LENGTHS IN METRES.

SYMBOL	DESCRIPTION
(Symbol)	100 PFC CONDUIT
(Symbol)	150 PFC CONDUIT
(Symbol)	200 PFC CONDUIT
(Symbol)	250 PFC CONDUIT
(Symbol)	300 PFC CONDUIT
(Symbol)	150 STEEL PIPE
(Symbol)	200 STEEL PIPE
(Symbol)	250 STEEL PIPE

CODE	CABLE NO.	TYPE	DATE	BY	REVISION
001	7754	300 25KV C. x TPE	2012	U23	100mm IDW AL PEVE/PVC
002	7755	300 7.0 50 P/L07	2012	U23	250mm LV AL XLPE
003	7756	20 PFC CON	2012		
004	7757	300 7.0 50 P/L07	2012		
005	7758	300 25KV C. x TPE	2012		



30-4-96
 1/8/96

WARNING
 THE EXCAVATIONS IN THE VICINITY OF ENDEAVOUR ENERGY TRANSMISSION, PILOT, COMMUNICATION OR FIBRE OPTIC CABLES PLEASE RING 9160 7414 OR MOB. 9407 460 626 4 WORKING DAYS BEFORE COMMENCING WORK

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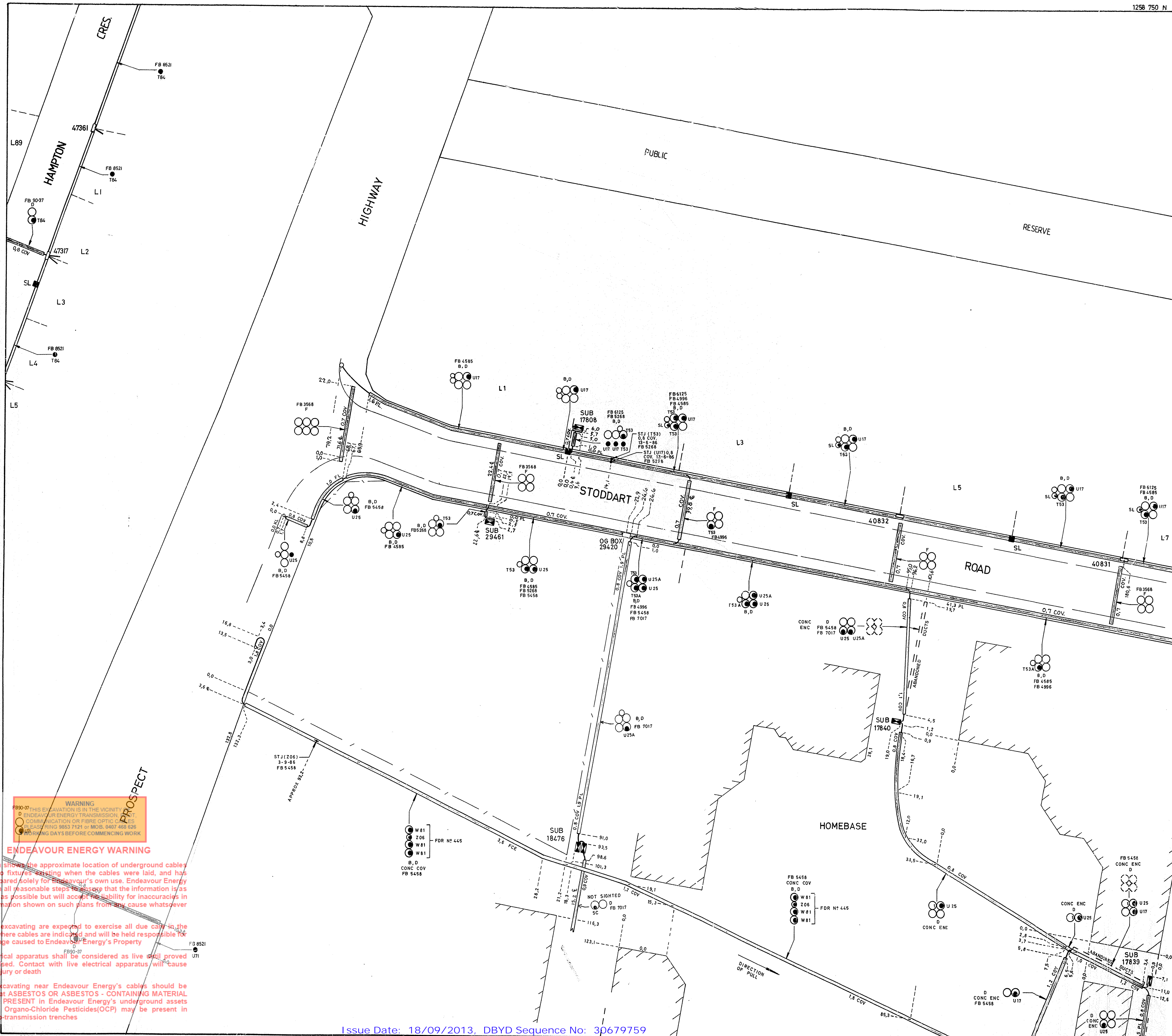
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REVISIONS				REVISIONS				REVISIONS				REVISIONS				REVISIONS			
NO.	DATE	BY	REVISION	NO.	DATE	BY	REVISION	NO.	DATE	BY	REVISION	NO.	DATE	BY	REVISION	NO.	DATE	BY	REVISION

PROSPECT COUNTY COUNCIL L
 U.G. RETICULATION
 BLACKTOWN

SCALE 1:250
 DATE 20-8-82
 9160-7414

SCANNED



NOTES:
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CABLE LEGEND		DUCT LEGEND	
SL	STREET LIGHT CONDUCTOR	B	50 PVC CONDUIT
SC	SERVICE CABLE	C	100 PVC CONDUIT
SF	SERVICE FEEDER - 50mm Cu. PVC/PVC	D	150 PVC CONDUIT
		E	100 FIBRO CONDUIT
		F	150 FIBRO CONDUIT

CABLE SCHEDULE			
CODE	TYPE	CODE	TYPE
U17	240mm HVV AL PLYSW	W81	630mm 33KV Cu XLPE
T53	240mm LV AL XLPE (CON.NEU)	Z06	9 CORE PILOT
U24	300mm HVV AL PLYSW	T86	240mm LV AL XLPE
U25	300mm HVV AL PLYSWPVC		
U71	185mm HVV AL XLPE		

WARNING
 FB90-37 THIS EXCAVATION IS IN THE VICINITY OF ENDEAVOUR ENERGY TRANSMISSION OR COMMUNICATION OR FIBRE OPTIC CABLES. PLEASE RING 9853 7121 or MOB. 0407 488 526 4 WORKING DAYS BEFORE COMMENCING WORK

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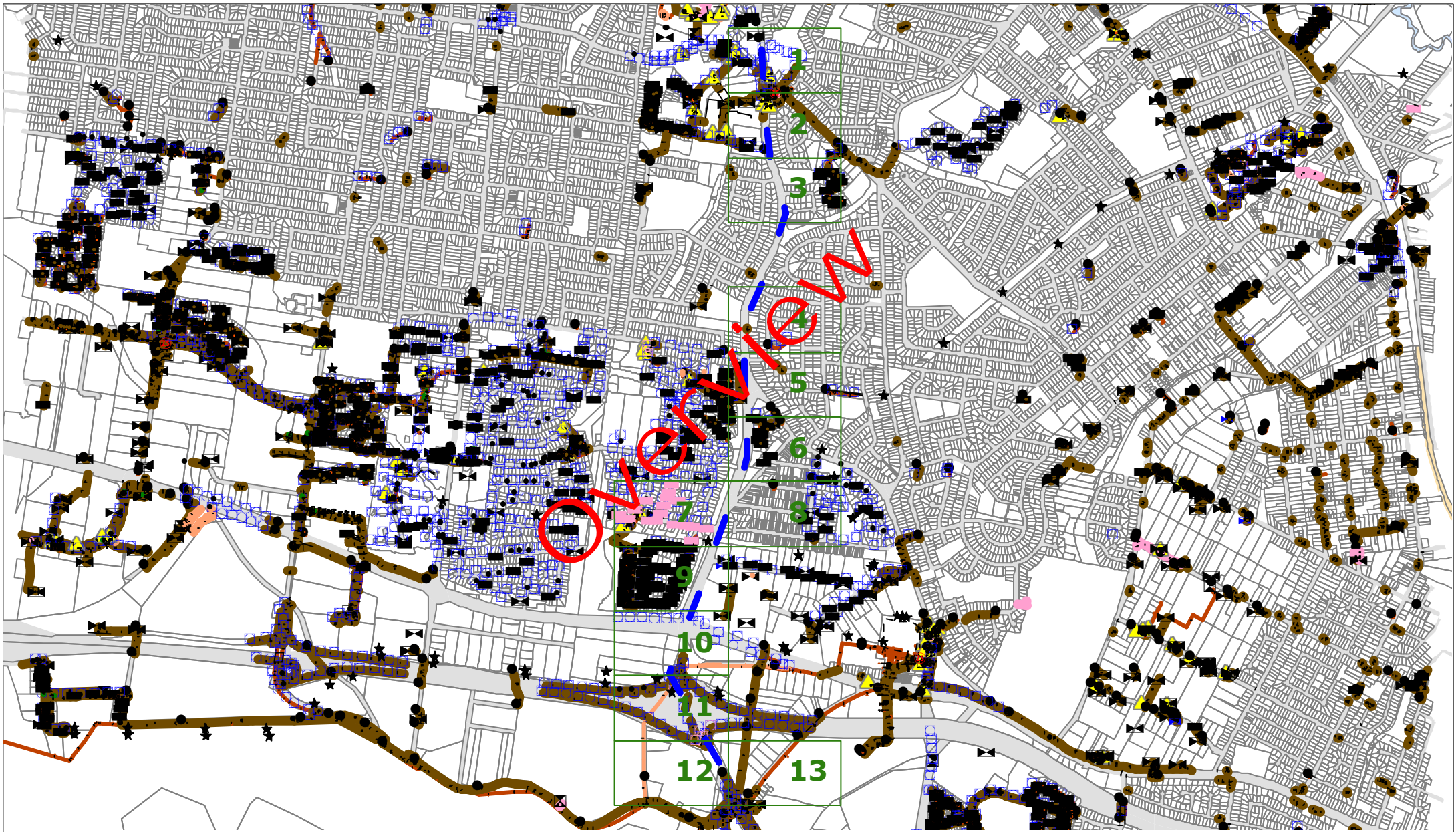
FB	LOCATION	DR'N	CH'D	DATE
8921	HAMPTON CRESCENT	SK	B.D.	19-2-01
7017	STODDART RD	J.H	J.H	28-10-88
6125	STODDART ROAD	W.R.	R.J.	12-6-87
5758	STODDART ROAD & CHURCH LANE	R.J.	R.J.	11-11-85
5268	STODDART ROAD	G.Sm.	P.J.P	28-6-86
4986	STODDART ROAD	P.J.P	R.W.	29-10-85
4585	STODDART ROAD	R.W.	R.W.	1-8-85

AMENDMENTS

THE PROSPECT COUNTY COUNCIL

U.G. RETICULATION
PROSPECT

DRAWN	R. MCK.	SCALE	1: 500	DATE	25.7.85
CHECKED	[Signature]	CO-ORD	D'SERV.	9152-1.3.2.2	S.H.



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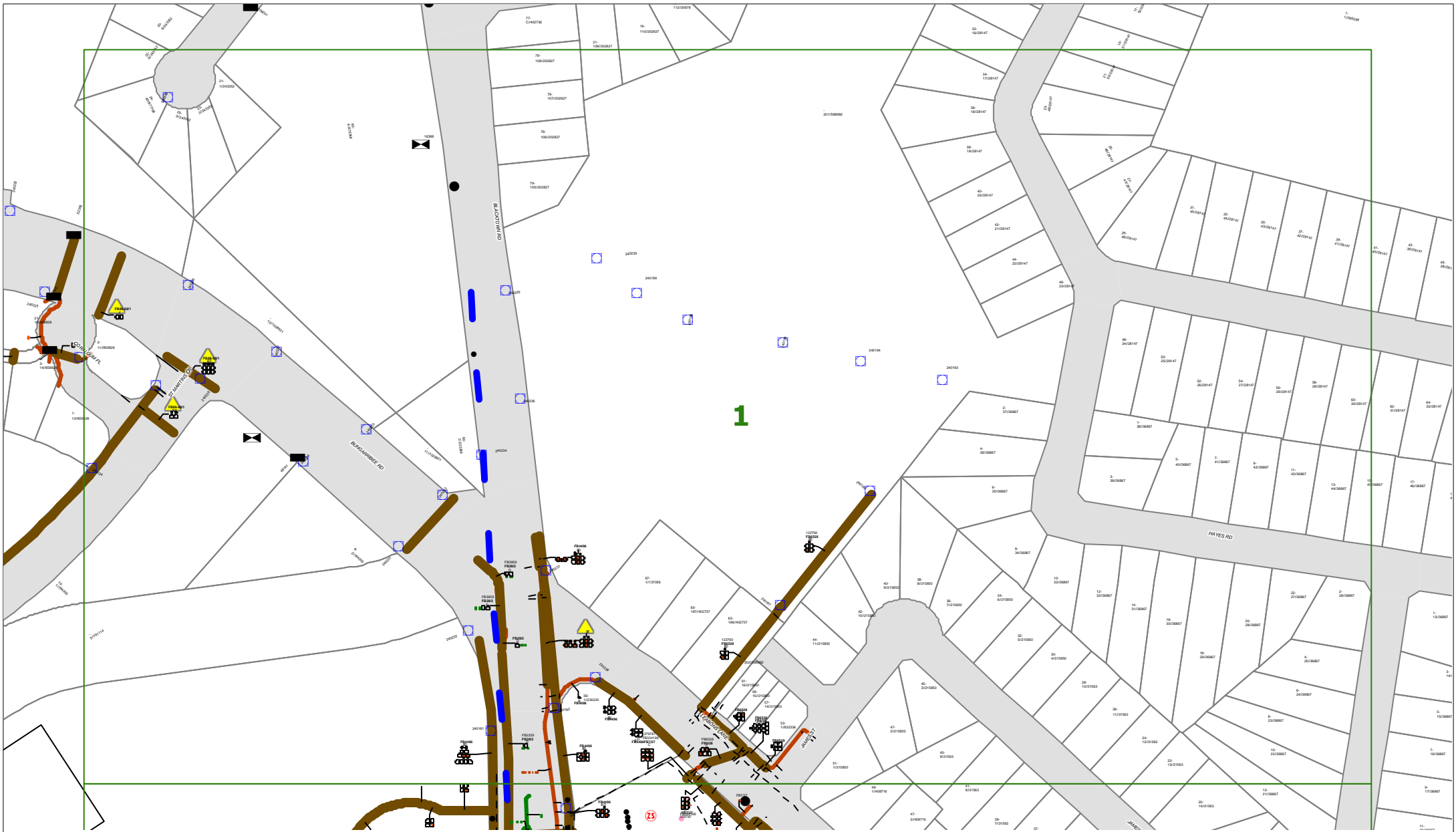


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4 WORKING DAYS BEFORE COMMENCING WORK



DO NOT SCALE

DBYD Sequence Number:	30679759
Issued Date:	18/09/2013



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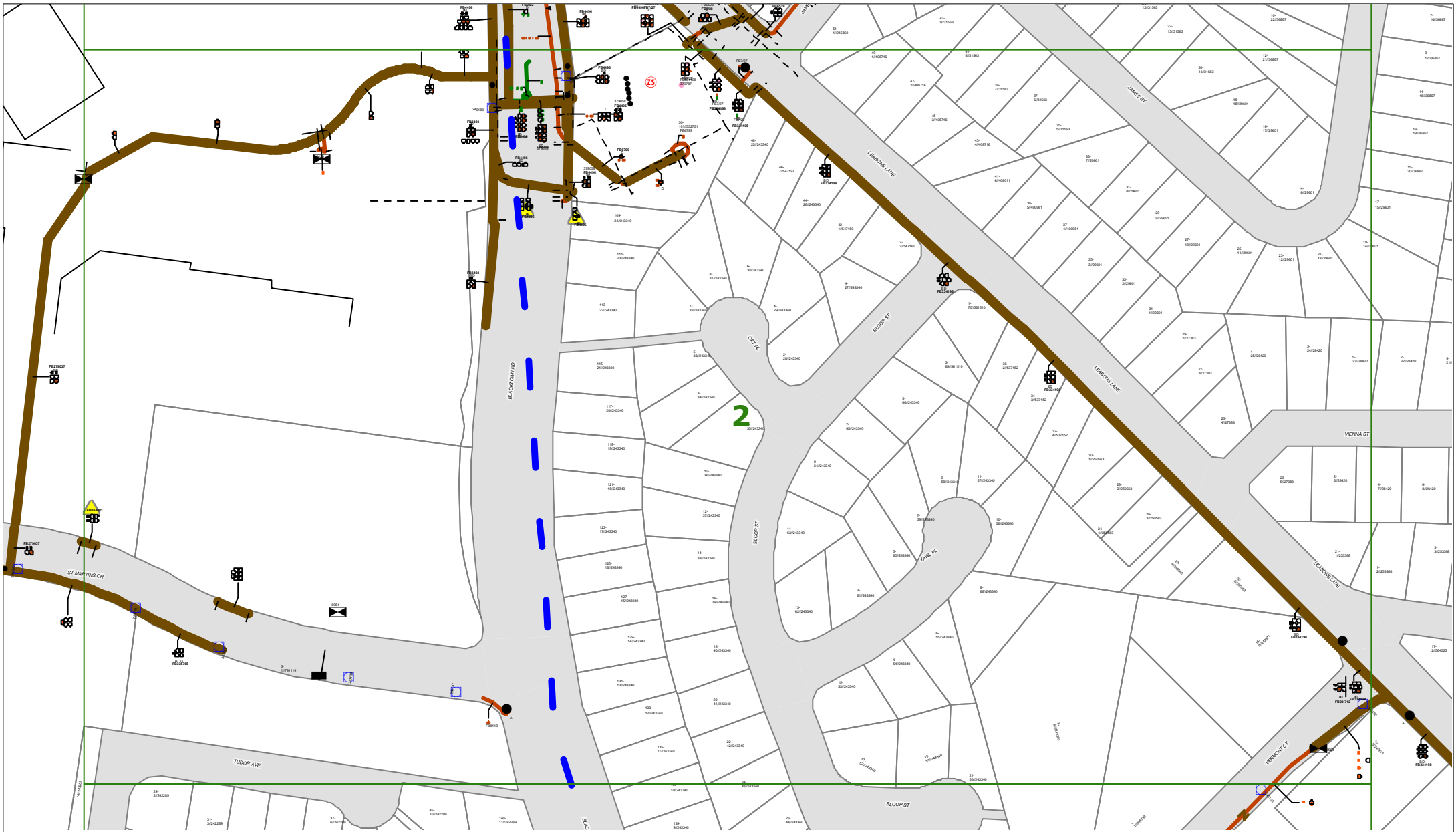


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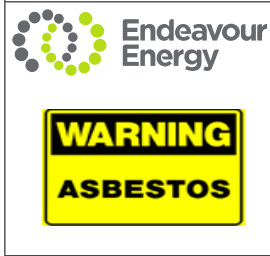


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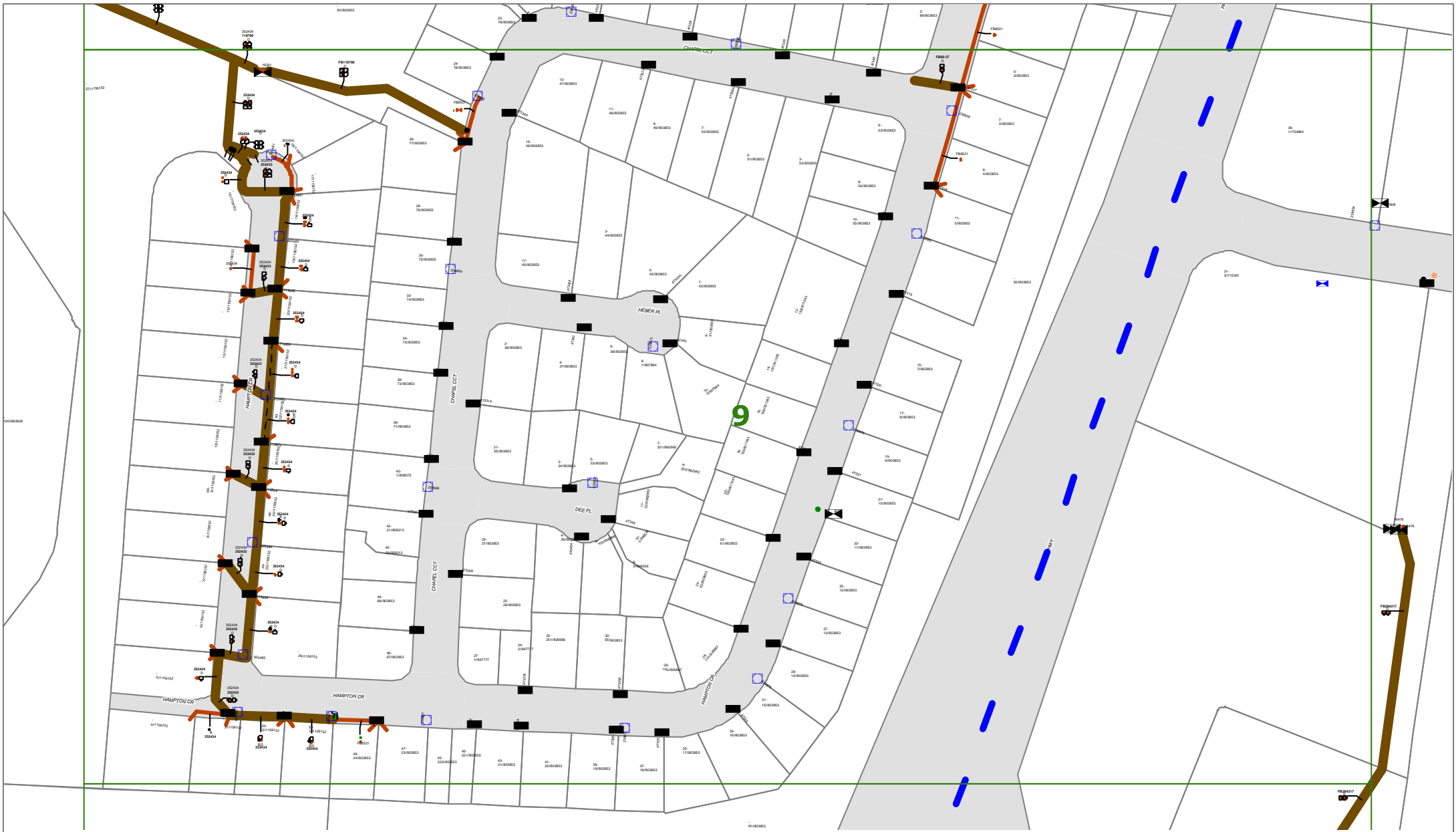


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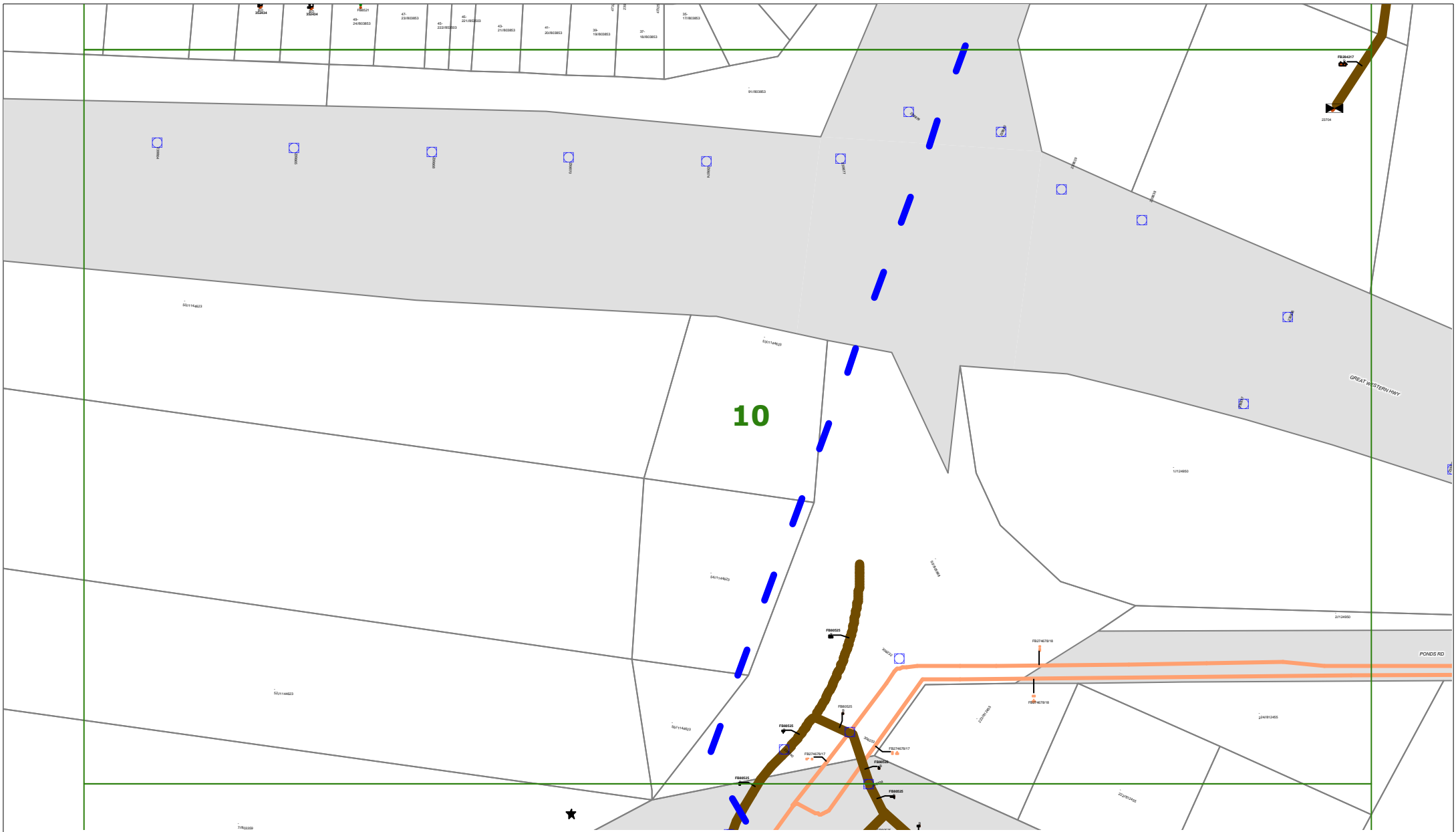
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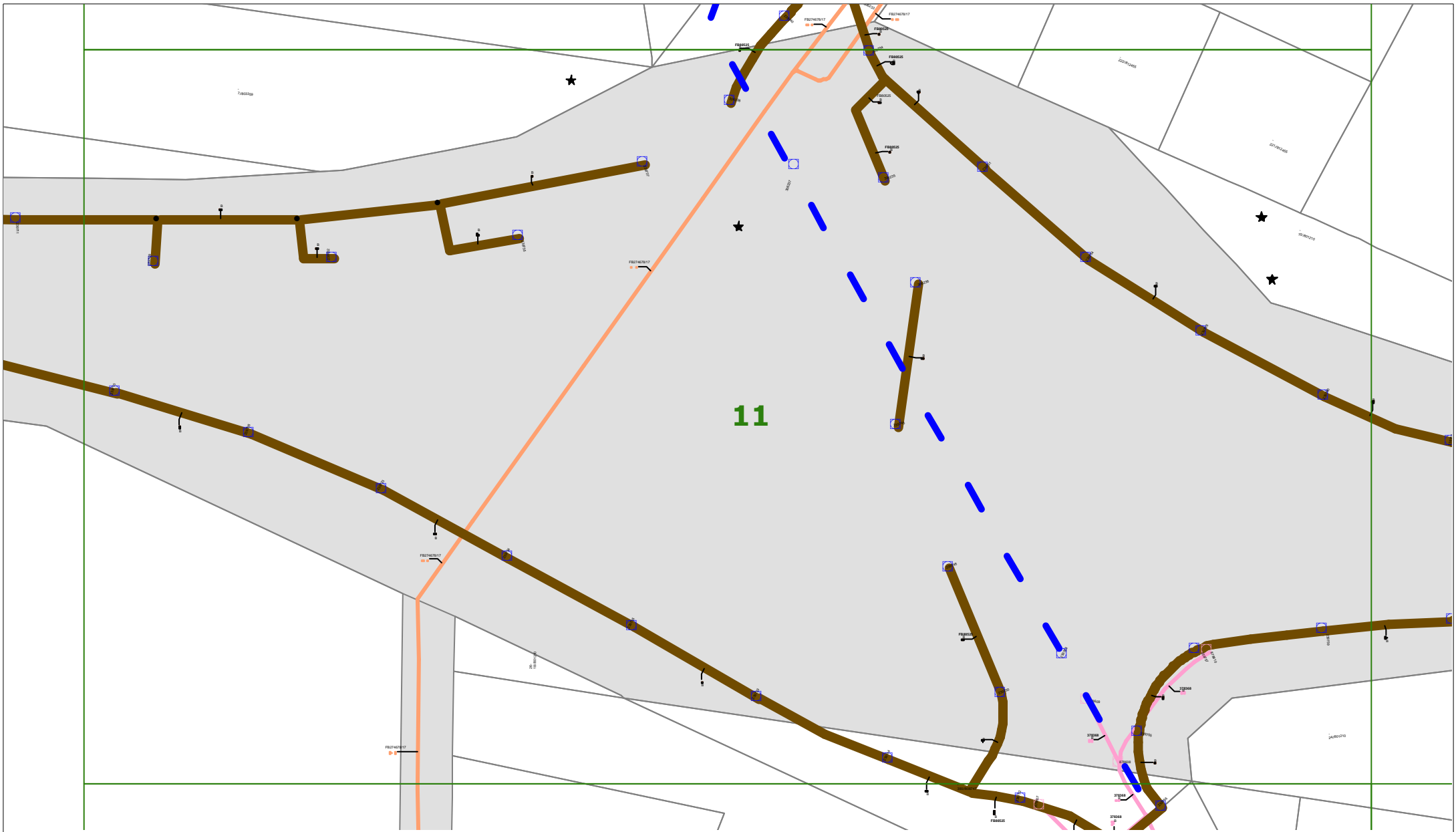


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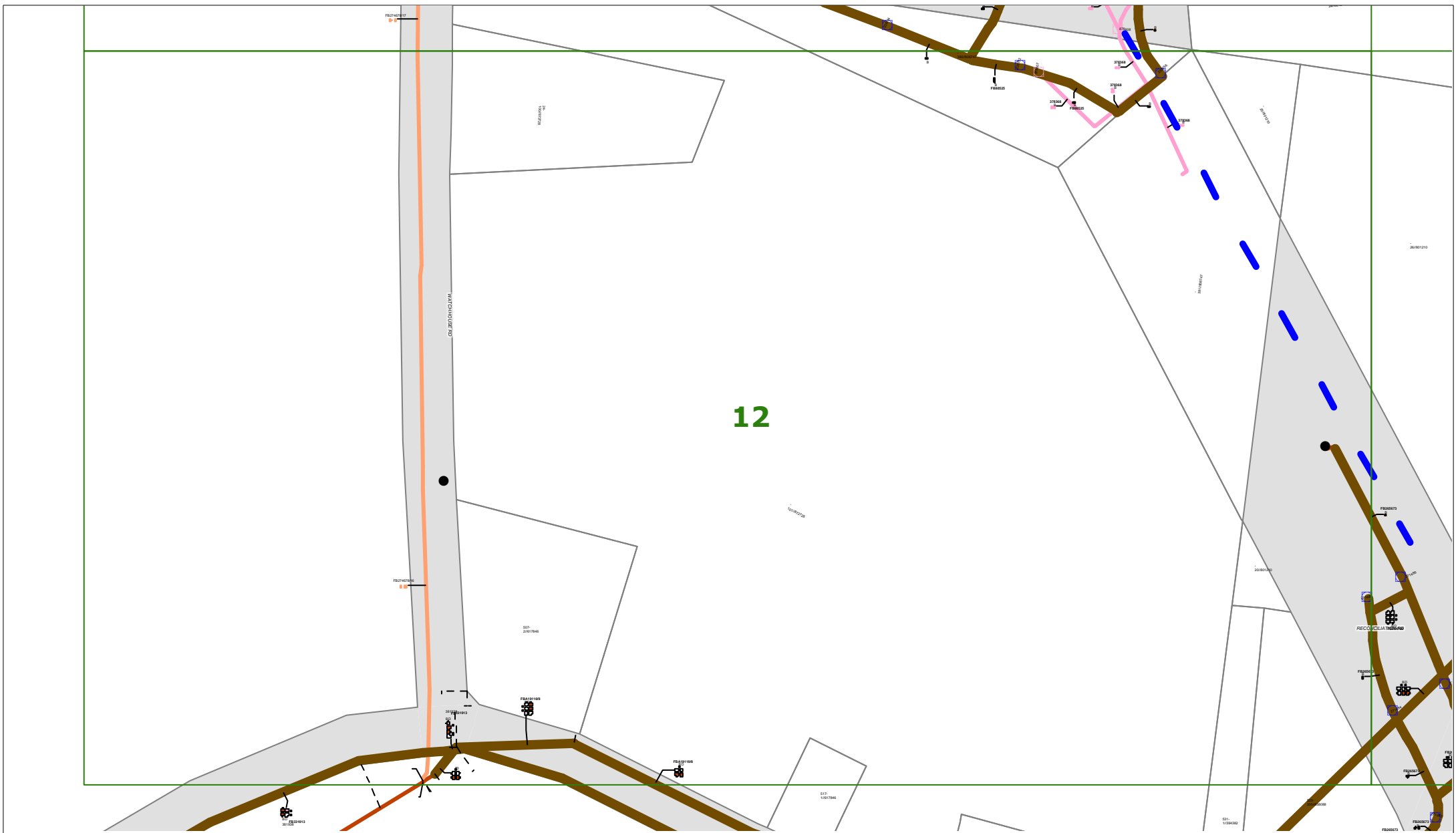


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12



ENDEAVOUR ENERGY WARNING

This plan shows the approximate location of underground cables relative to fixtures existing when the cables were laid, and has been prepared solely for Endeavour Energy's own use. Endeavour Energy has taken all reasonable steps to ensure that the information is accurate as possible but will accept no liability for inaccuracies in the information shown on such plans from any cause whatsoever arising. Persons excavating are expected to exercise all due care in the vicinity where cables are indicated and will be held responsible for any damage caused to Endeavour Energy's property.

ALL ELECTRICAL APPARATUS SHALL BE CONSIDERED LIVE UNTIL PROVED DE-ENERGISED.
Contact with live electrical apparatus will cause severe injury or death.

Those excavating near Endeavour Energy's cables should be aware that **ASBESTOS OR ASBESTOS - CONTAINING MATERIAL MAY BE PRESENT** in Endeavour Energy's underground assets and that **Organo-Chloride Pesticides(OCP)** may be present in some sub-transmission trenches

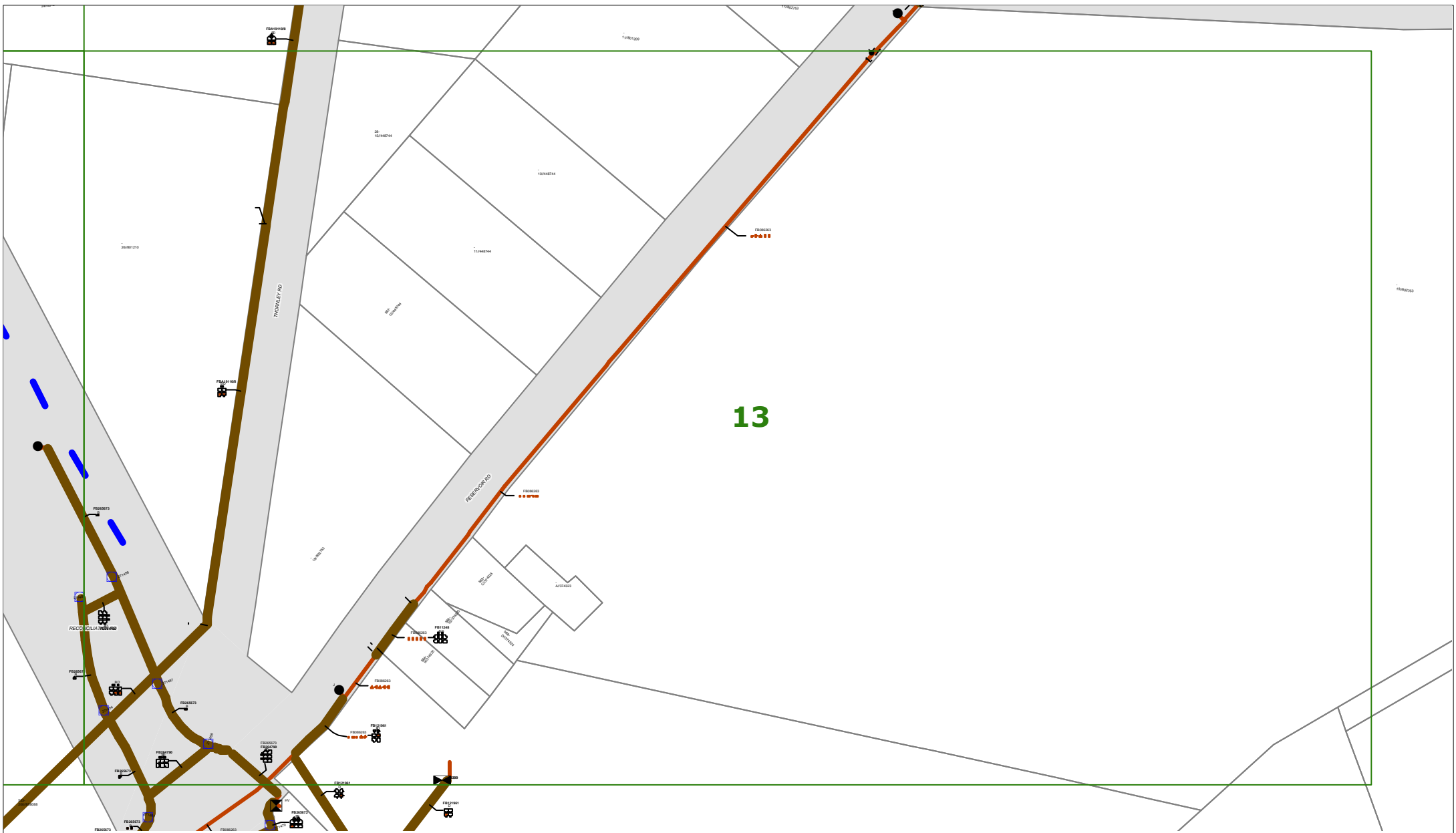


WARNING
THIS EXCAVATION IS IN THE VICINITY OF ENDEAVOUR ENERGY TRANSMISSION, PILOT, COMMUNICATION OR FIBRE OPTIC CABLES. PLEASE RING 9853 7121 or MOB. 0407 468 626 4 WORKING DAYS BEFORE COMMENCING WORK



DO NOT SCALE

DBYD Sequence Number:	30679759
Issued Date:	18/09/2013



ENDEAVOUR ENERGY WARNING
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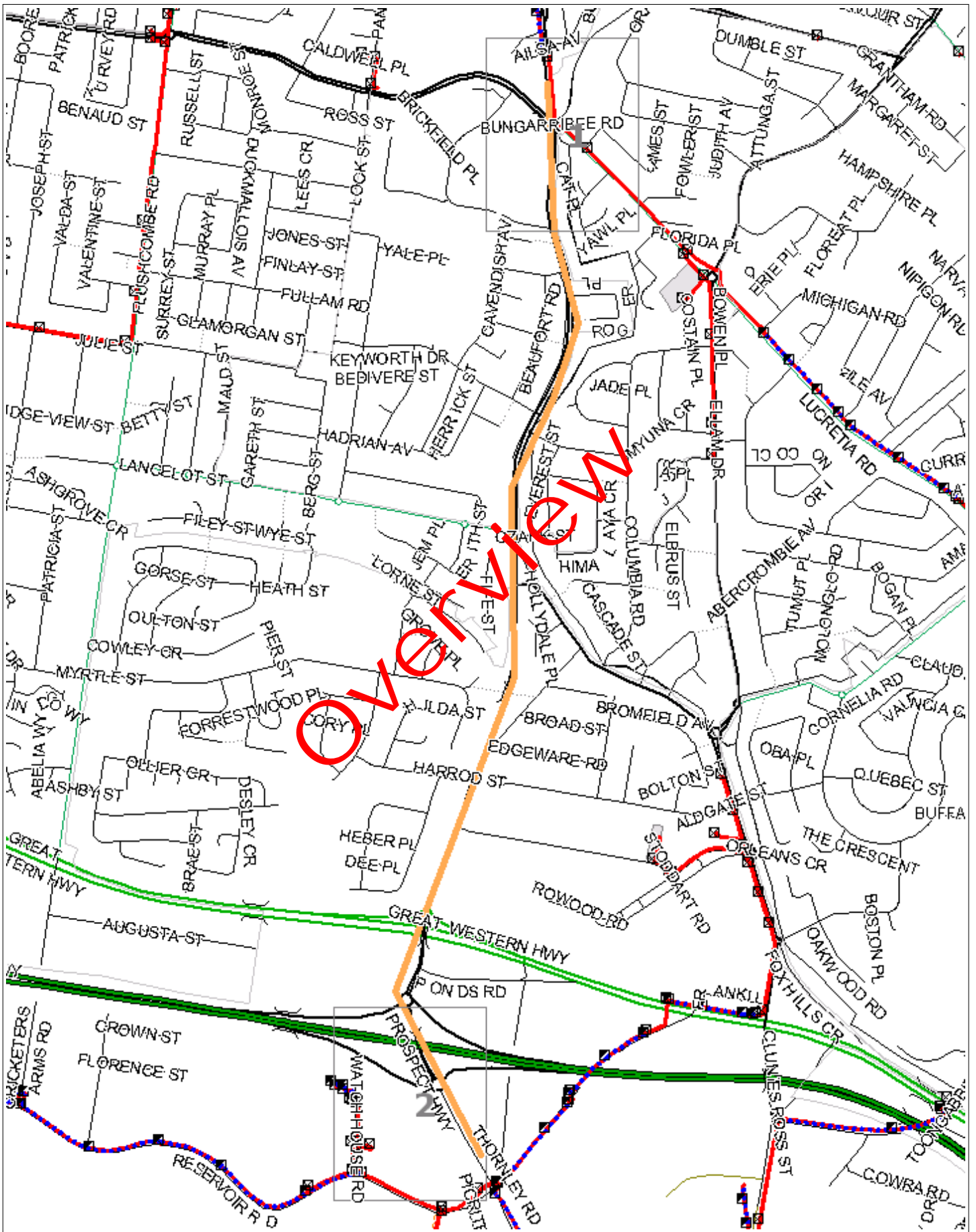


WARNING
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DO NOT SCALE

DBYD Sequence Number:	30679759
Issued Date:	18/09/2013



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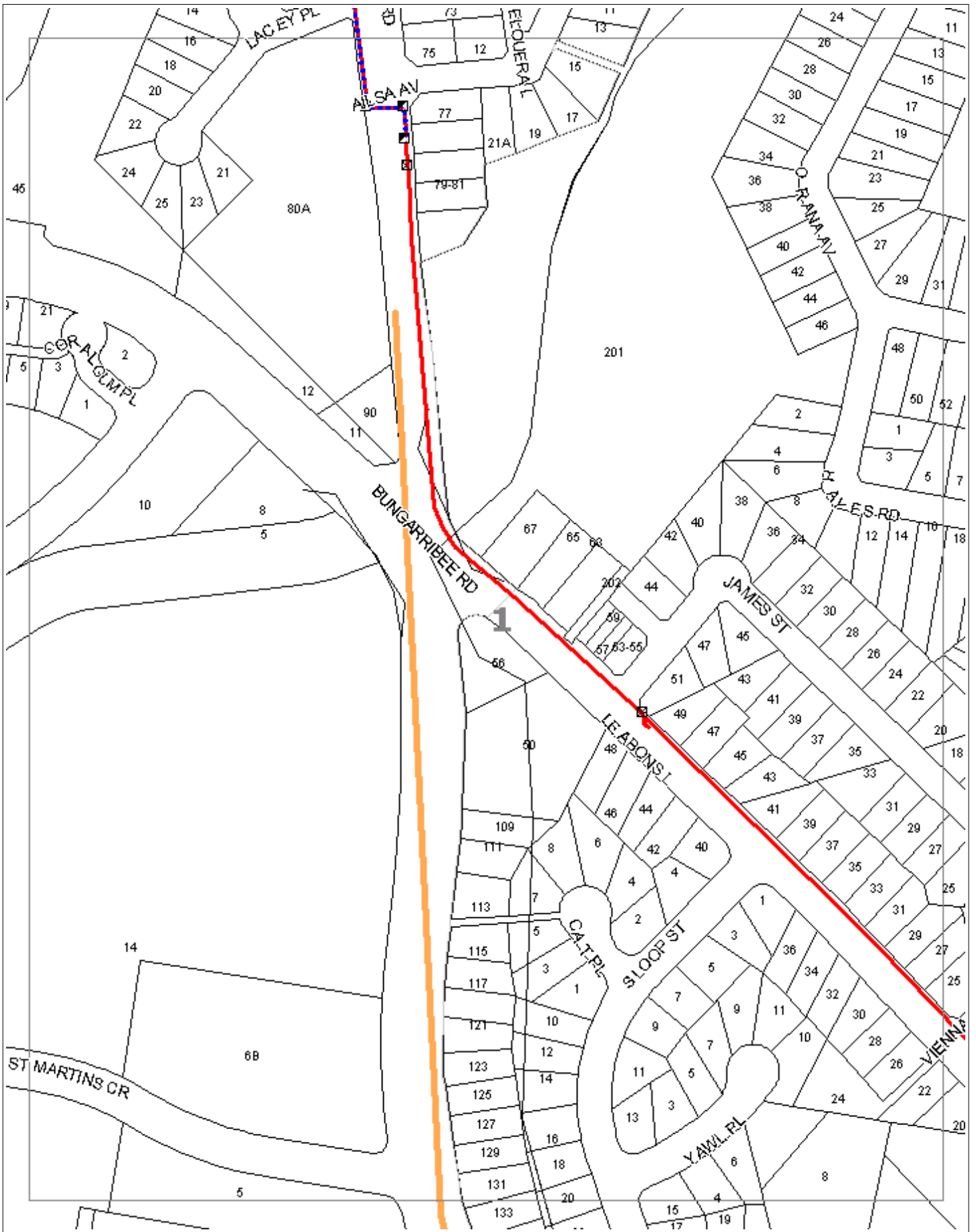
Sequence Number: 30679761

Date Generated: 17/09/2013



For all Optus DBYD plan enquiries –
 Email: Fibre.Locations@optus.net.au
 For urgent onsite assistance contact 1800 505 777
 Optus Limited ACN 052 833 208





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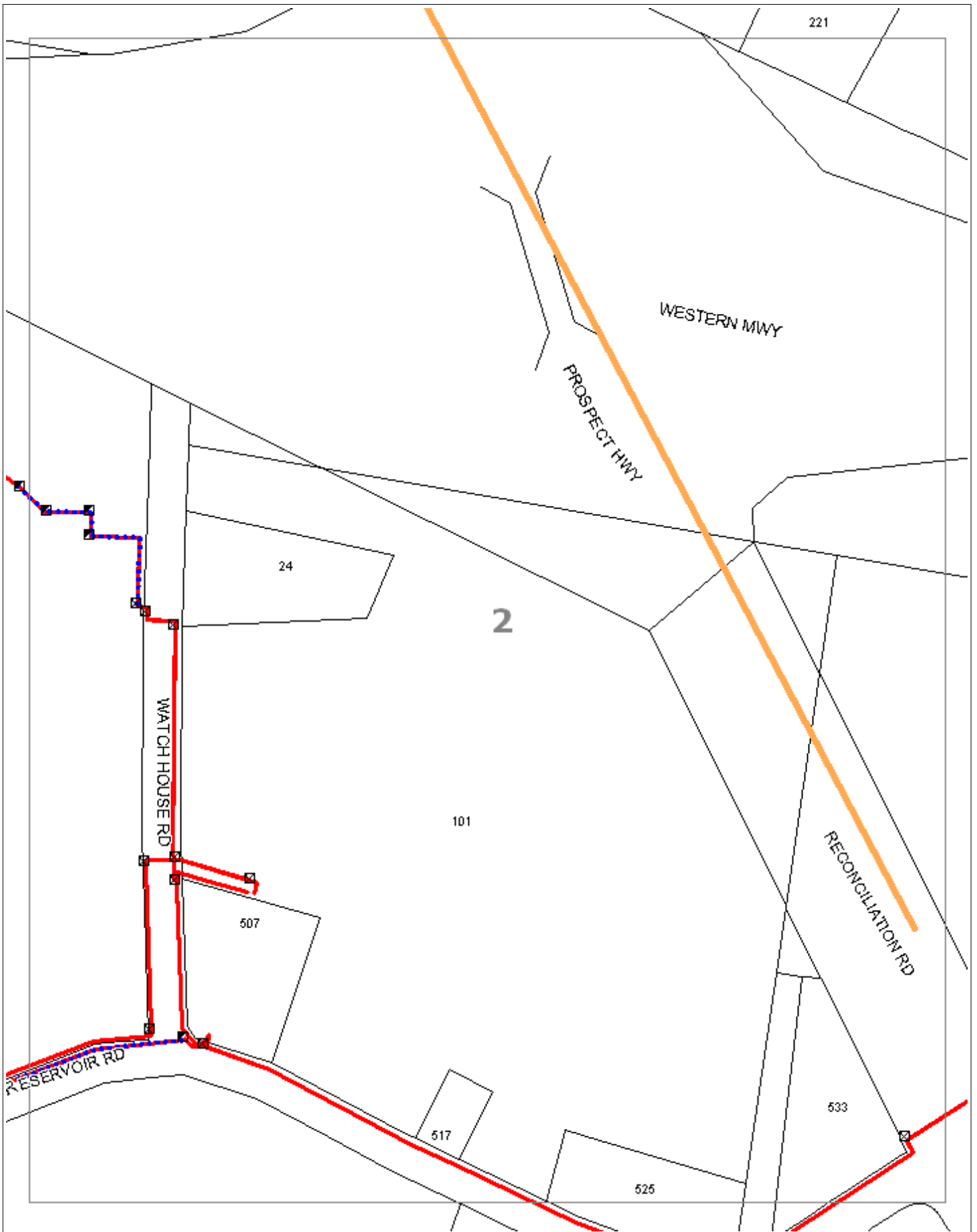
Sequence Number: 30679761

Date Generated: 17/09/2013



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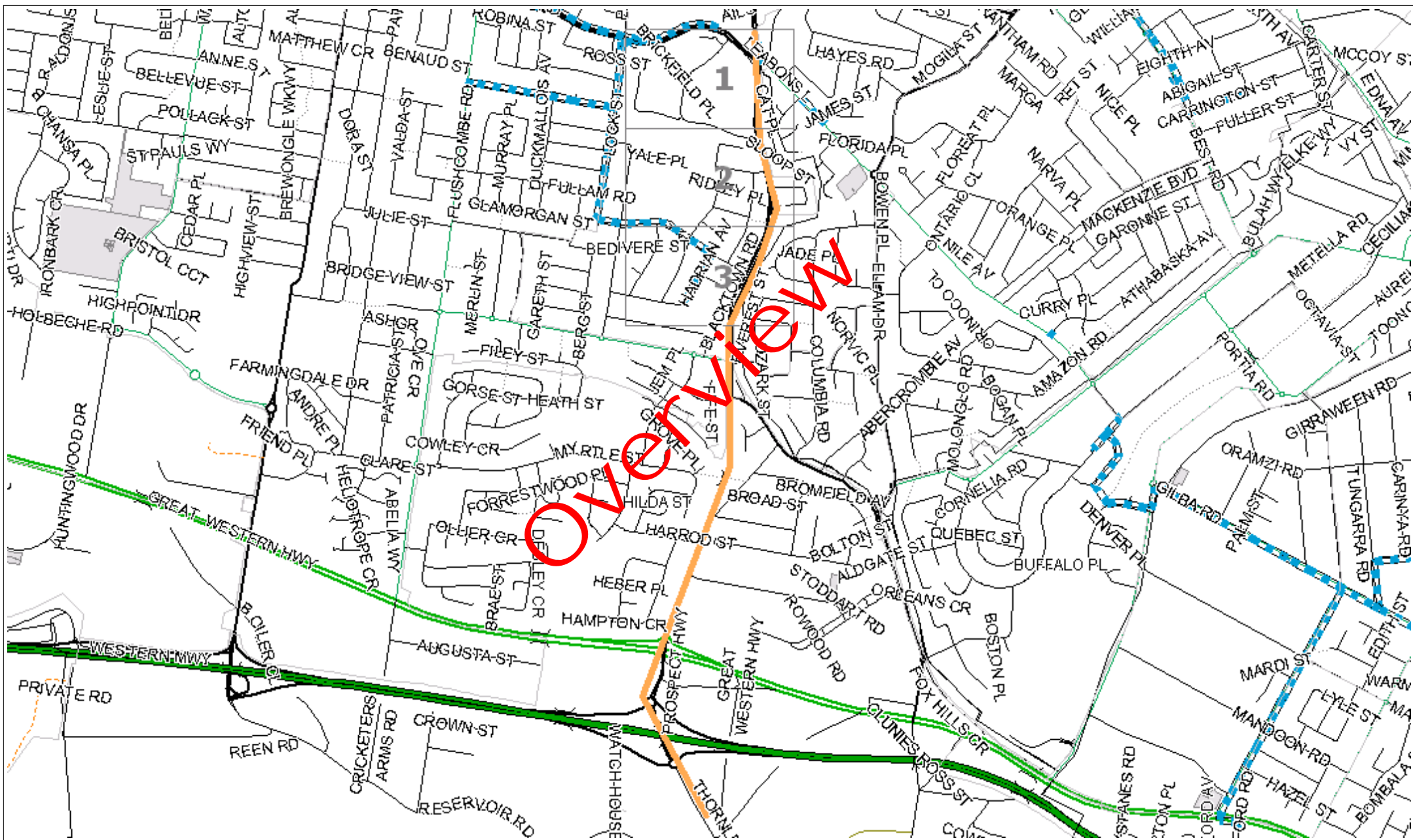
Sequence Number: 30679761

Date Generated: 17/09/2013



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Uecomm

Cable Uecomm Underground

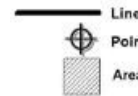
Scale: #INSERT MAP SCALE#

Printed On: 17/09/2013

Sequence Number: 30679761
 Location: Prospect Highway Hwy



Job Location

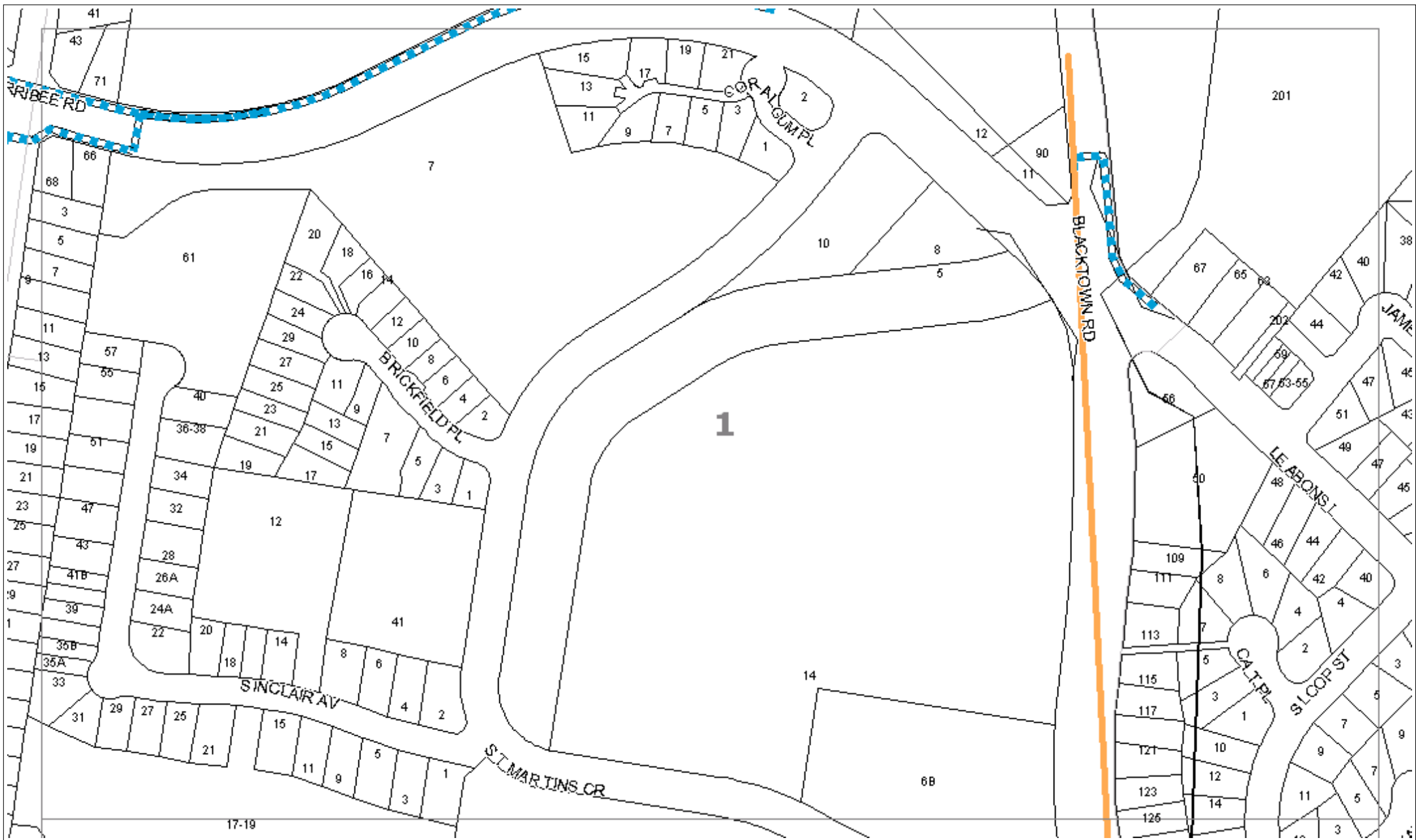


Underground Asset



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Uecomm
Cable Uecomm Underground

Scale: #INSERT MAP SCALE# Printed On: 17/09/2013

Sequence Number: 30679761
 Location: Prospect Highway Hwy



Job Location	Underground Asset
Line	----- Uecomm
Point	
Area	

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Uecomm
Cable Uecomm Underground

Scale: #INSERT MAP SCALE# Printed On: 17/09/2013

Sequence Number: 30679761
 Location: Prospect Highway Hwy



Job Location

- Line
- ⊕ Point
- Area

Underground Asset

- Uecomm

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Uecomm

Cable Uecomm Underground

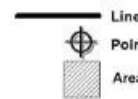
Scale: #INSERT MAP SCALE#

Printed On: 17/09/2013

Sequence Number: 30679761
 Location: Prospect Highway Hwy



Job Location

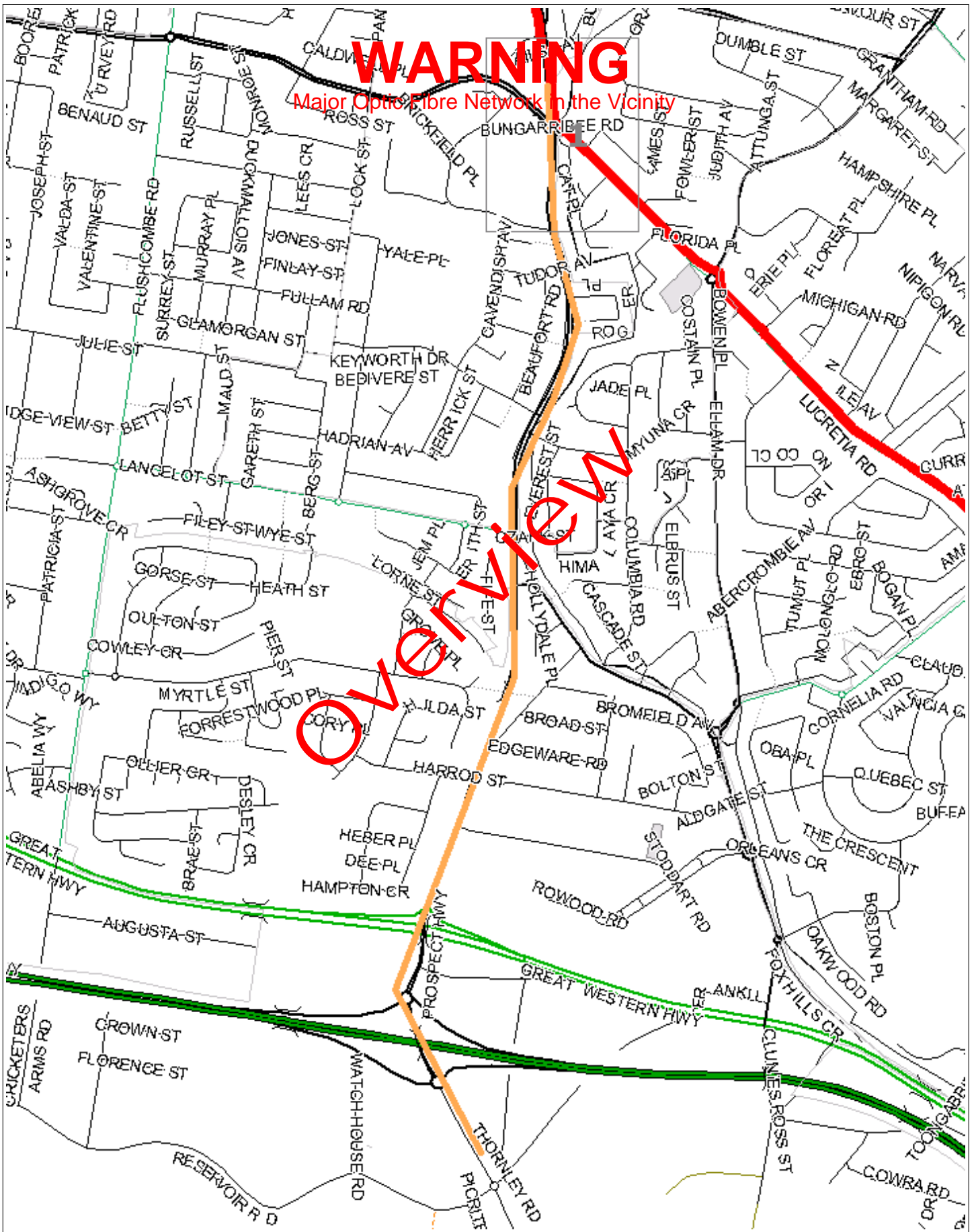


Underground Asset



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WARNING

Major Optus Fibre Network in the Vicinity

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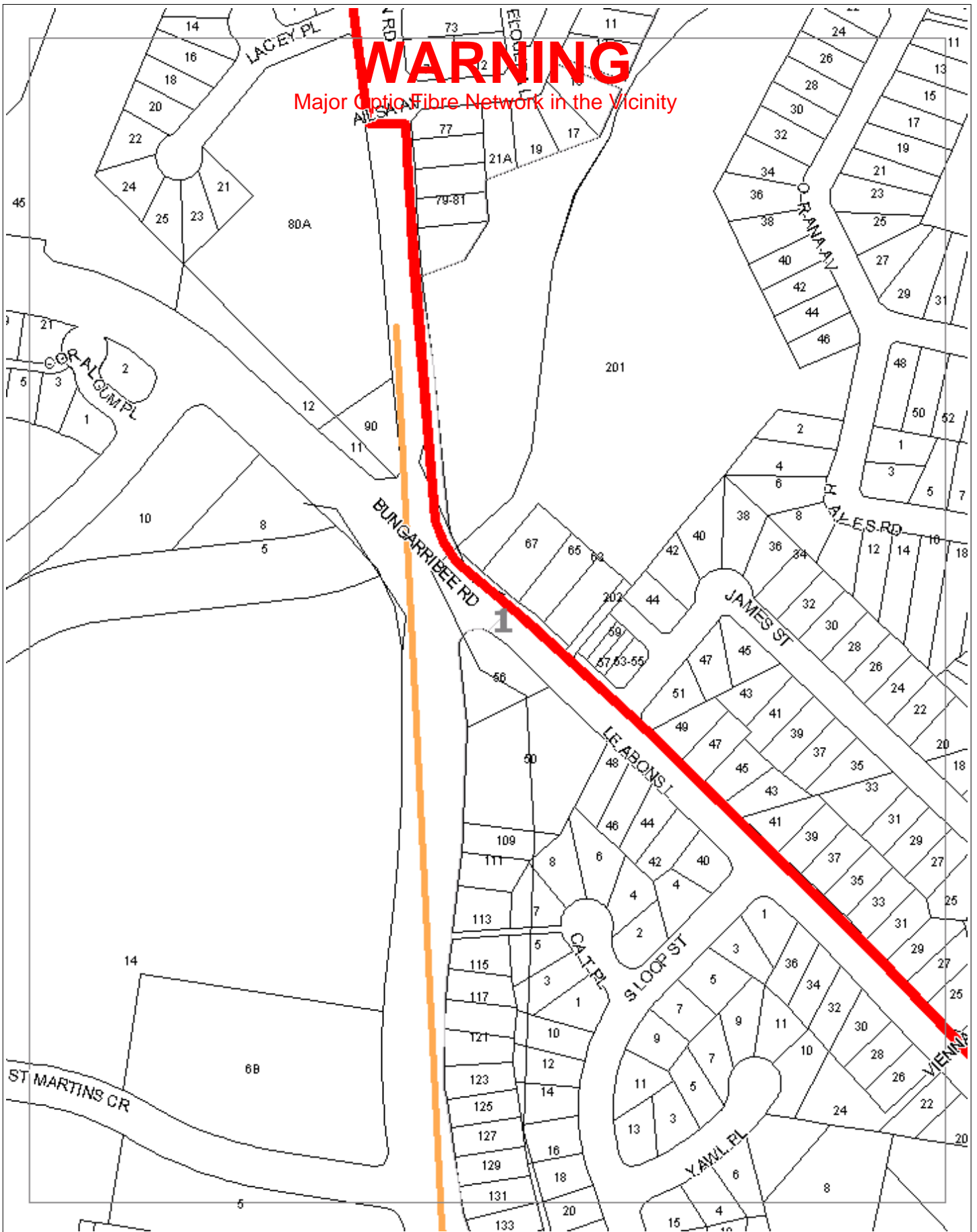
Sequence Number: 30679761

Date Generated: 17/09/2013



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WARNING
Major Optic Fibre Network in the Vicinity

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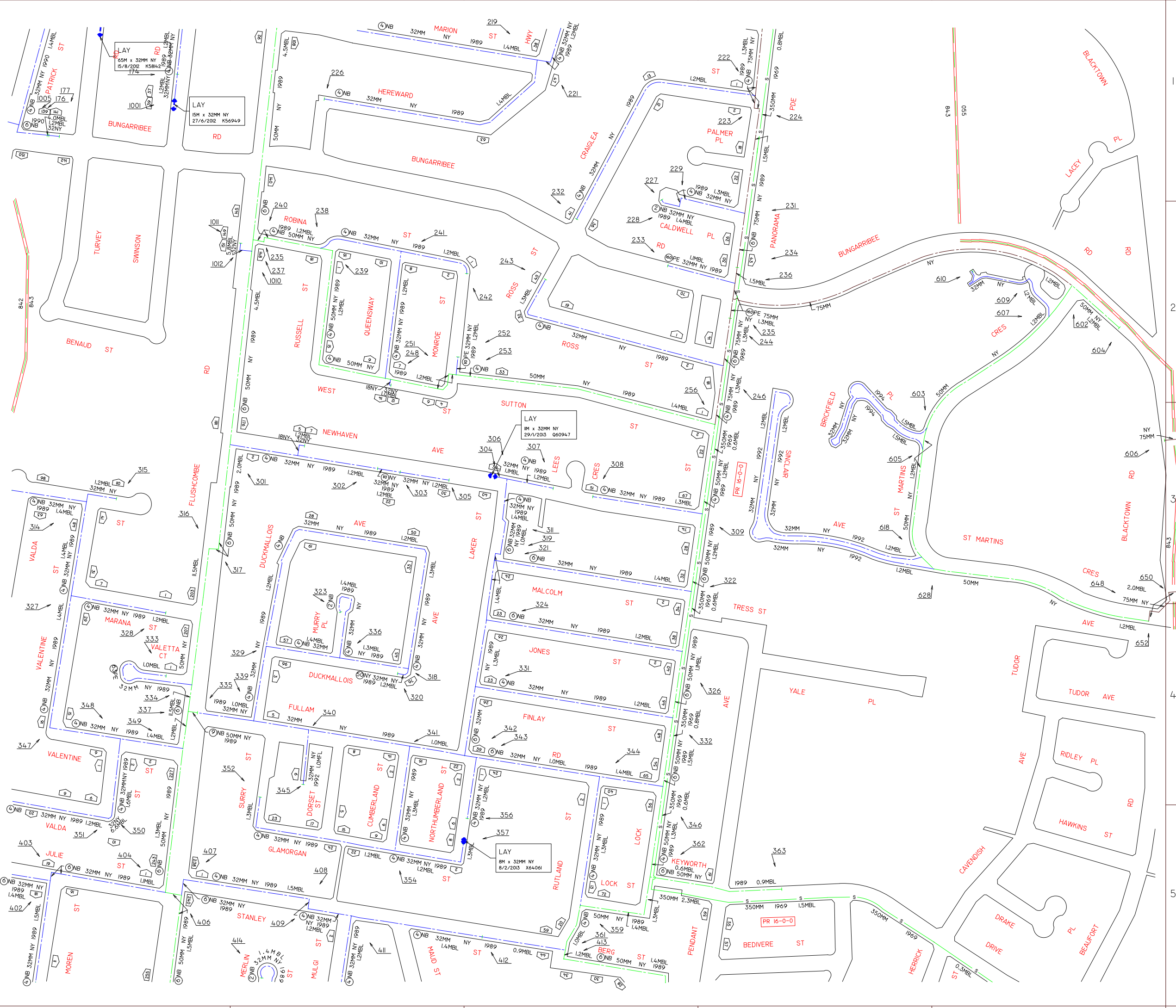
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Date Generated: 17/09/2013

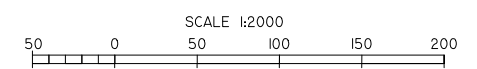


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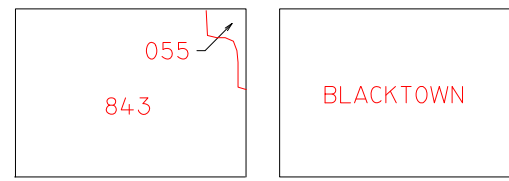
BLACKTOWN 7C



THIS MAP UPDATED ON 08/02/13
THIS PLAN IS DIAGRAMATIC ONLY. DISTANCES
SCALED FROM THIS PLAN MAY NOT BE ACCURATE.
DATE ALTERED:..... BY:.....

RH9B	B7A	B7B
RH9D	B7C	B7D
HP3B	MIA	MIB

ADJOINING MAPS



NETWORK AREA MUNICIPALITY AREA

Jemena

KEY

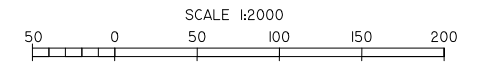
MAX ALLOWABLE OPERATING PRESSURE

- T — TRUNK MAIN 7000 kPa
- P — PRIMARY MAIN 3500 kPa
- S — SECONDARY MAIN 1050 kPa
- — 300 kPa
- — 210 kPa
- — 7 kPa
- — 400 kPa
- — 100 kPa
- - - — PROPOSED MAINS 2 kPa

- PR 11-2-3 STEEL MAIN PROJECT NUMBER
- PRESSURE MONITORING STATION
- VALVE
- SYSTEM PRESSURE REGULATOR
- SIPHON
- NETWORK NODES
- ITEM DETAIL SKETCH AVAILABLE
- 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
- 1.2MBL DISTANCE IN METRES OF MAIN FROM BUILDING LINE (TOLERANCE OF 0.4M)
- 1957 YEAR LAID
- MUNICIPALITY BOUNDARY
- NETWORK BOUNDARY
- HOUSE NUMBER

BLACKTOWN 7C

BLACKTOWN 7D



THIS MAP UPDATED ON 04/06/2013
 THIS PLAN IS DIAGRAMATIC ONLY. DISTANCES
 SCALED FROM THIS PLAN MAY NOT BE ACCURATE.
 DATE ALTERED:..... BY:.....

B7A	B7B	B8A
B7C	B7D	B8C
MIA	MIB	M2A

ADJOINING MAPS

055	BLACKTOWN
843	

NETWORK AREA MUNICIPALITY AREA

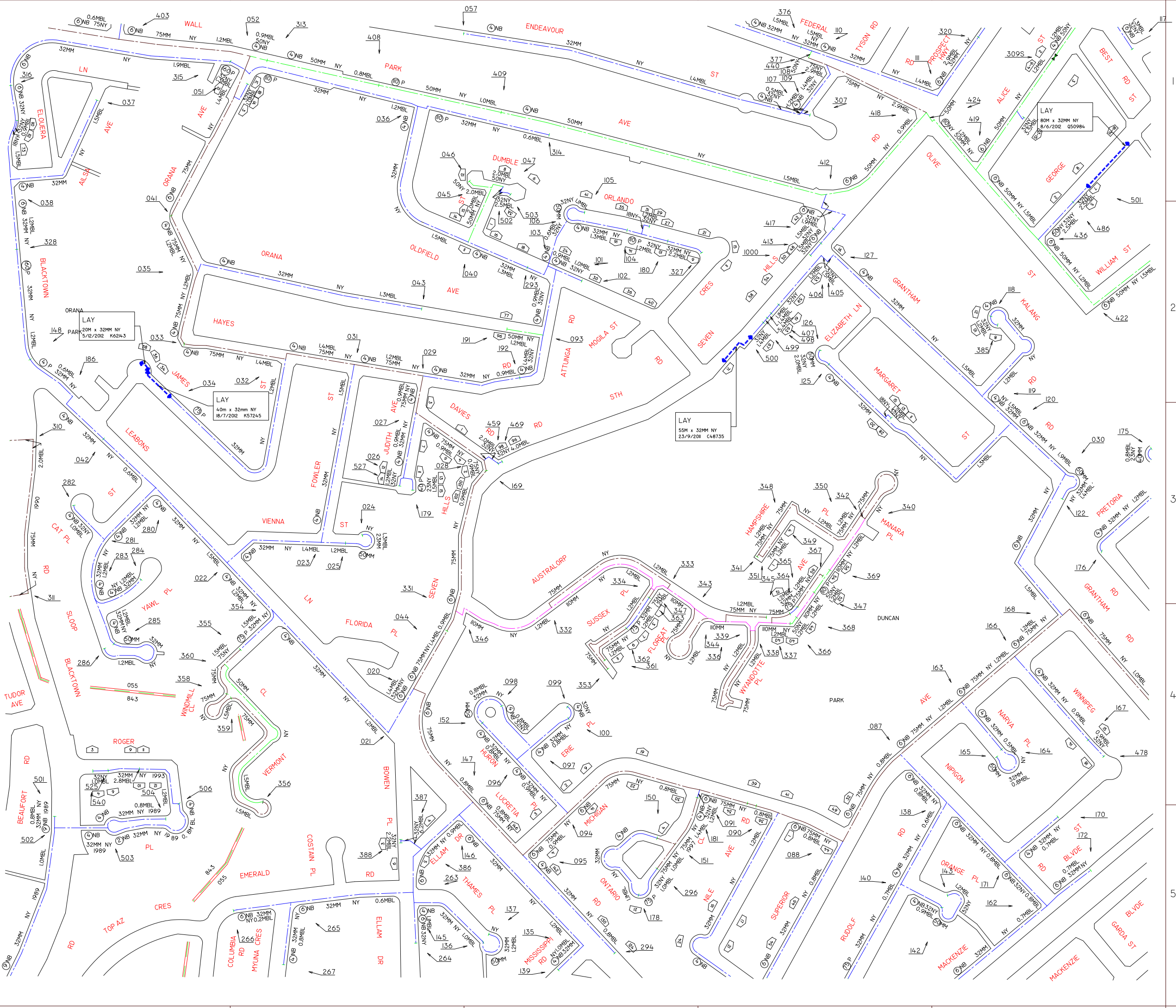
Jemena

KEY

MAX ALLOWABLE OPERATING PRESSURE

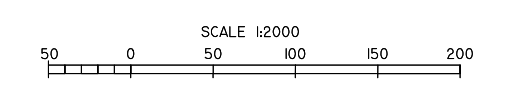
- T TRUNK MAIN 7000 kPa
- P PRIMARY MAIN 3500 kPa
- S SECONDARY MAIN 1050 kPa
- 300 kPa
- 210 kPa
- 7 kPa
- 400 kPa
- 100 kPa
- 2 kPa
- - - PROPOSED MAINS
- PR II-2 3 STEEL MAIN PROJECT NUMBER
- PRESSURE MONITORING STATION
- VALVE
- SYSTEM PRESSURE REGULATOR
- SIPHON
- NETWORK NODES
- ITEM DETAIL SKETCH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

BLACKTOWN 7D





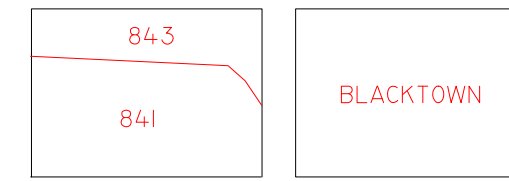
MERRYLANDS IA



THIS MAP UPDATED ON 30/04/2013
 THIS PLAN IS DIAGRAMATIC ONLY. DISTANCES
 SCALED FROM THIS PLAN MAY NOT BE ACCURATE.
 DATE ALTERED:..... BY:.....

RH9D	B7C	B7D
HP3B	MIA	MIB
HP3D	MIC	MID

ADJOINING MAPS



NETWORK AREA MUNICIPALITY AREA

Jemena

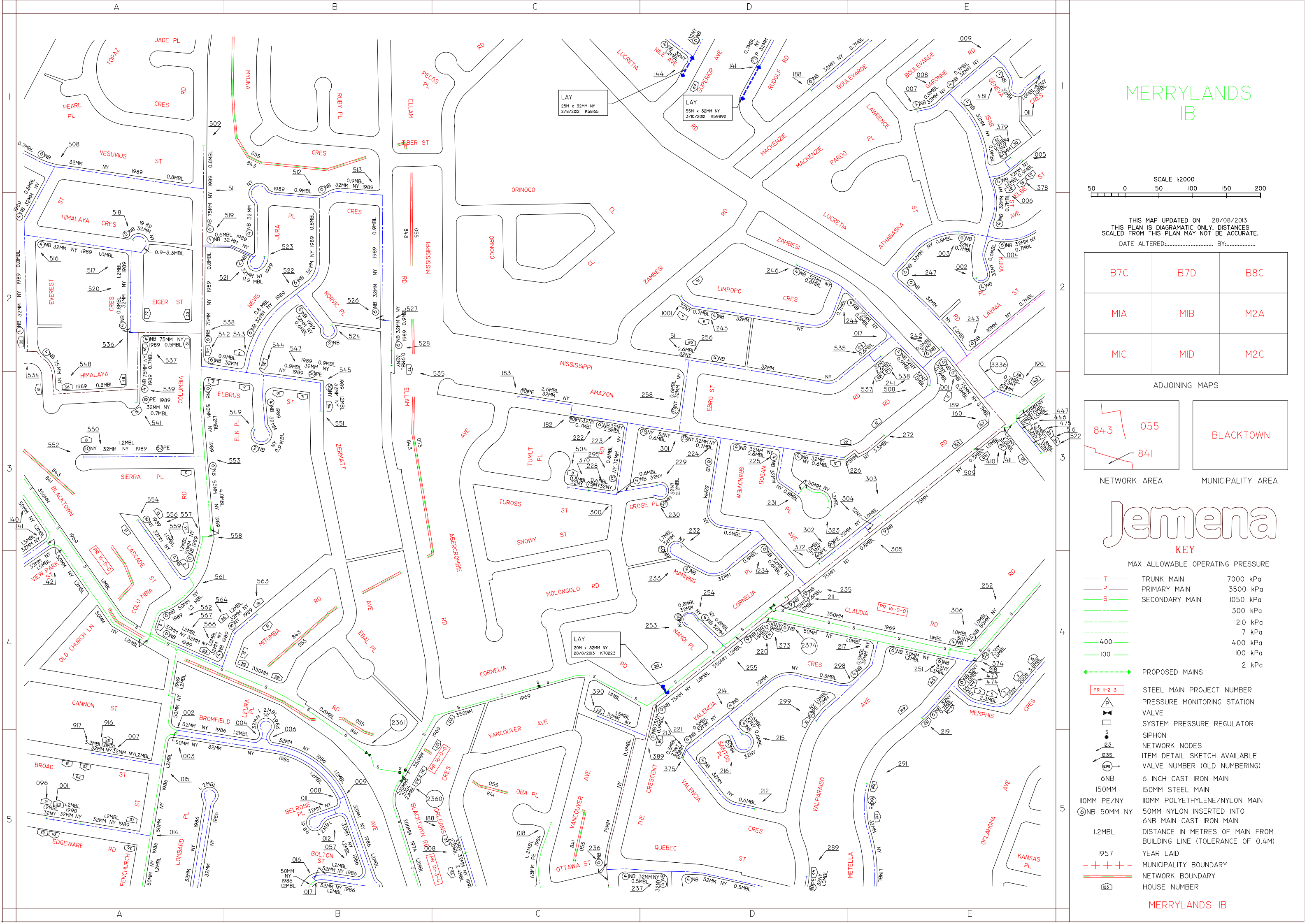
KEY

MAX ALLOWABLE OPERATING PRESSURE

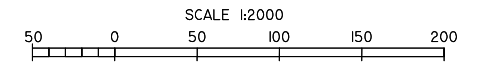
- T — TRUNK MAIN 7000 kPa
- P — PRIMARY MAIN 3500 kPa
- S — SECONDARY MAIN 1050 kPa
- 300 kPa
- 210 kPa
- 7 kPa
- 400 400 kPa
- 100 100 kPa
- 2 kPa
- PROPOSED MAINS

- PR II-2-3 STEEL MAIN PROJECT NUMBER
- PRESSURE MONITORING STATION
- VALVE
- SYSTEM PRESSURE REGULATOR
- SIPHON
- NETWORK NODES
- ITEM DETAIL SKETCH AVAILABLE
- VALVE NUMBER (OLD NUMBERING)
- 6 NB 6 INCH CAST IRON MAIN
- 150MM 150MM STEEL MAIN
- 110MM PE/NY 110MM POLYETHYLENE/NYLON MAIN
- 50NB 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

MERRYLANDS IA



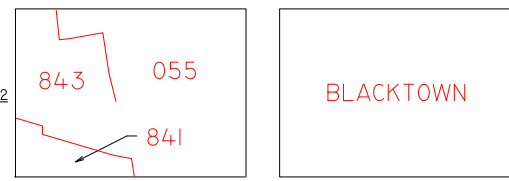
MERRYLANDS IB



THIS MAP UPDATED ON 28/08/2013
 THIS PLAN IS DIAGRAMATIC ONLY. DISTANCES
 SCALED FROM THIS PLAN MAY NOT BE ACCURATE.
 DATE ALTERED:..... BY:.....

B7C	B7D	B8C
MIA	MIB	M2A
MIC	MID	M2C

ADJOINING MAPS



NETWORK AREA MUNICIPALITY AREA

Jemena

KEY

MAX ALLOWABLE OPERATING PRESSURE

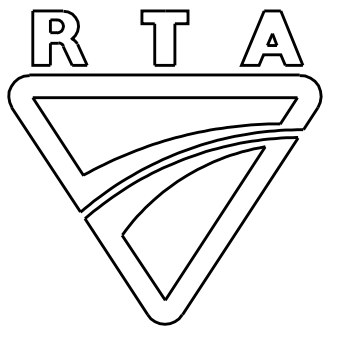
T	TRUNK MAIN	7000 kPa
P	PRIMARY MAIN	3500 kPa
S	SECONDARY MAIN	1050 kPa
		300 kPa
		210 kPa
		7 kPa
400		400 kPa
100		100 kPa
		2 kPa

- PR 1-2 3 STEEL MAIN PROJECT NUMBER
- P Pressure Monitoring Station
- Valve
- System Pressure Regulator
- S Siphon
- Network Nodes
- 123 Item Detail Sketch Available
- 123S Valve Number (Old Numbering)
- 6NB 6 INCH CAST IRON MAIN
- 150MM 150MM STEEL MAIN
- 110MM PE/NY 110MM POLYETHYLENE/NYLON MAIN
- 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
- 83 HOUSE NUMBER

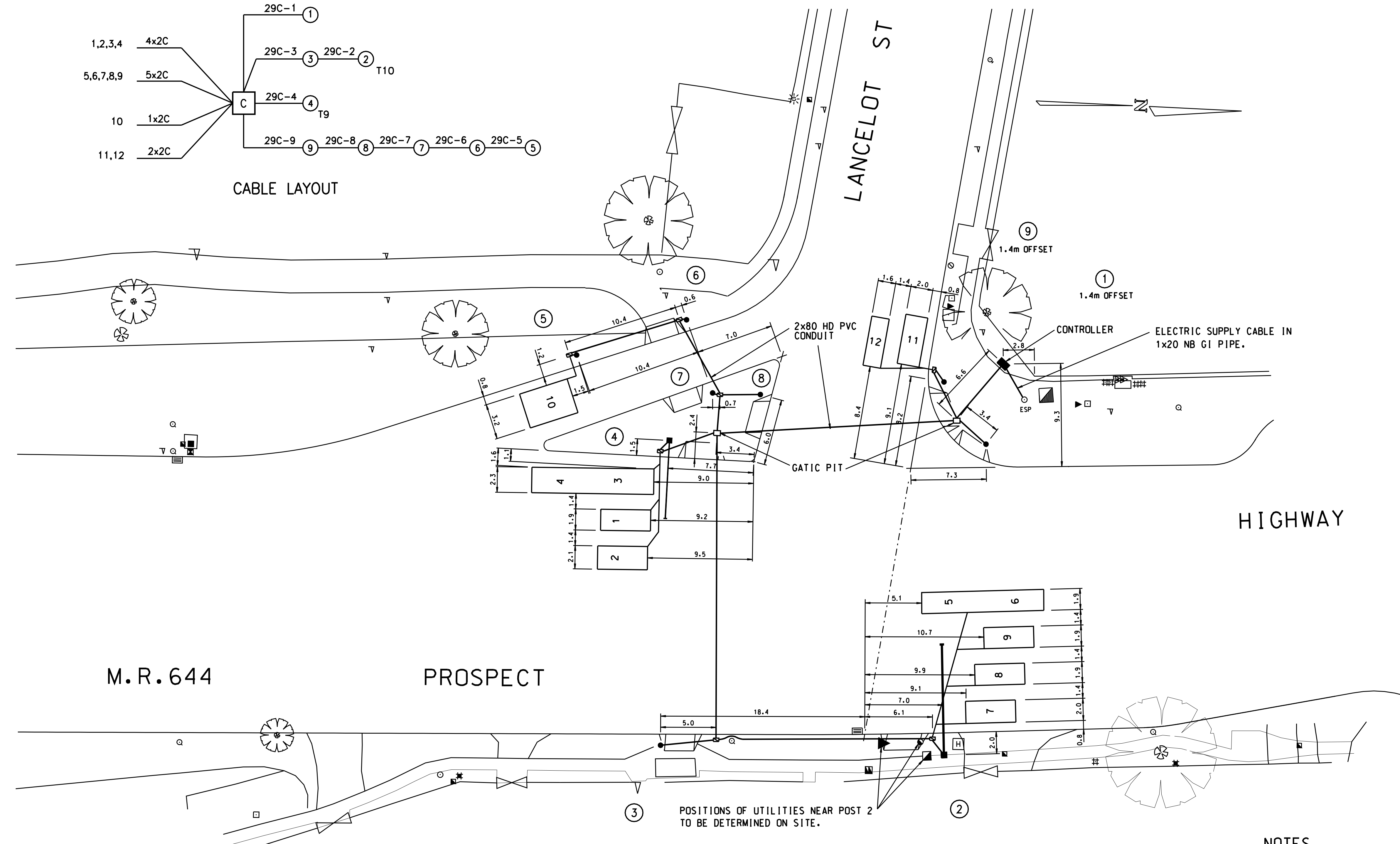
MERRYLANDS IB

DRAWN BY CADD
DO NOT AMEND MANUALLY

DATE IN SERVICE : 29/11/07



0644.040.VV.4131



- NOTES**
1. CABLE COVER: IN ROADWAYS 0.75m ABOVE PIPE. IN FOOTWAYS 0.5m ABOVE PIPE UNLESS OTHERWISE STATED.
 2. ALL CABLES IN FOOTWAYS ARE INSTALLED IN 1 X 80 HD PVC CONDUIT UNLESS OTHERWISE STATED.
 3. ALL ROADCROSSING PIPES ARE 1 X 80 HD PVC CONDUIT UNLESS OTHERWISE STATED.

A ORIGINAL ISSUE
B ISSUE: WAE
CABLE RUN ALTERED. 2xGATIC PITS INSTALLED. NOTE 4 REMOVED. TH 13/10/09 AP

PUBLIC UTILITY LEGEND		REFERENCE PLANS	
HYDRANT	□	SYMBOLS/ABBS.	VD003-6
STOP VALVE	▲	STD POSIT	VD001-5
GAS VALVE	≡	DET SCHED EXP	VD018-10
SEWER MANHOLE	⊗	PRES. DETECT	VCD05-17
TELECOM PIT	⊠	SSG DIS. SED.	VD018-8
ELECT LIGHT POLE	○	DESIGN LAYOUT	SHEET 1
POWER POLE	○	CABLE CHART	SHEET 3
STAY POLE	○		
TELEPHONE BOX	⊠	SURVEYOR : RTA	
TELECOM PILLAR	⊙	DATE : 25/07/2006	

U.B.D. Ref. Mod 189 A9
I.S.G. E: 292 377
CO-ORDS N: 1 259 524
DESIGNED L. CLAY
CHECKED M. MAHINTHAN
DATE .09-07-2007...
SITE CHECKED
RECOMMENDED

DESIGN APPROVAL
APPROVED
TRAFFIC ENG. TECH.
POSITION ... MANAGER
DATE .09-07-2007...
PREPARED BY
TRAFFIC ENGINEERING TECHNOLOGY
ENGINEERING TECHNOLOGY BRANCH
REGIONAL OPERATIONS & ENGINEERING SERVICES DIRECTORATE

Roads and Traffic Authority, N.S.W.
BLACKTOWN COUNCIL AREA
TRAFFIC SIGNALS AT
(M.R.644) PROSPECT HIGHWAY
AND LANCELOT STREET, BLACKTOWN
CABLE INSTALLATION
TCS No 4131

EXISTING <input checked="" type="checkbox"/>	PROPOSED <input type="checkbox"/>
CADD FILE: VV4131_2B_INS.dgn	
SCALE 5 0 (1:200) 5 10	ISSUE
FILE 040 TS 480	SUPERSEDES SHEET/ISSUE -
REGN. 0644.040.VV.4131	SHEET 2