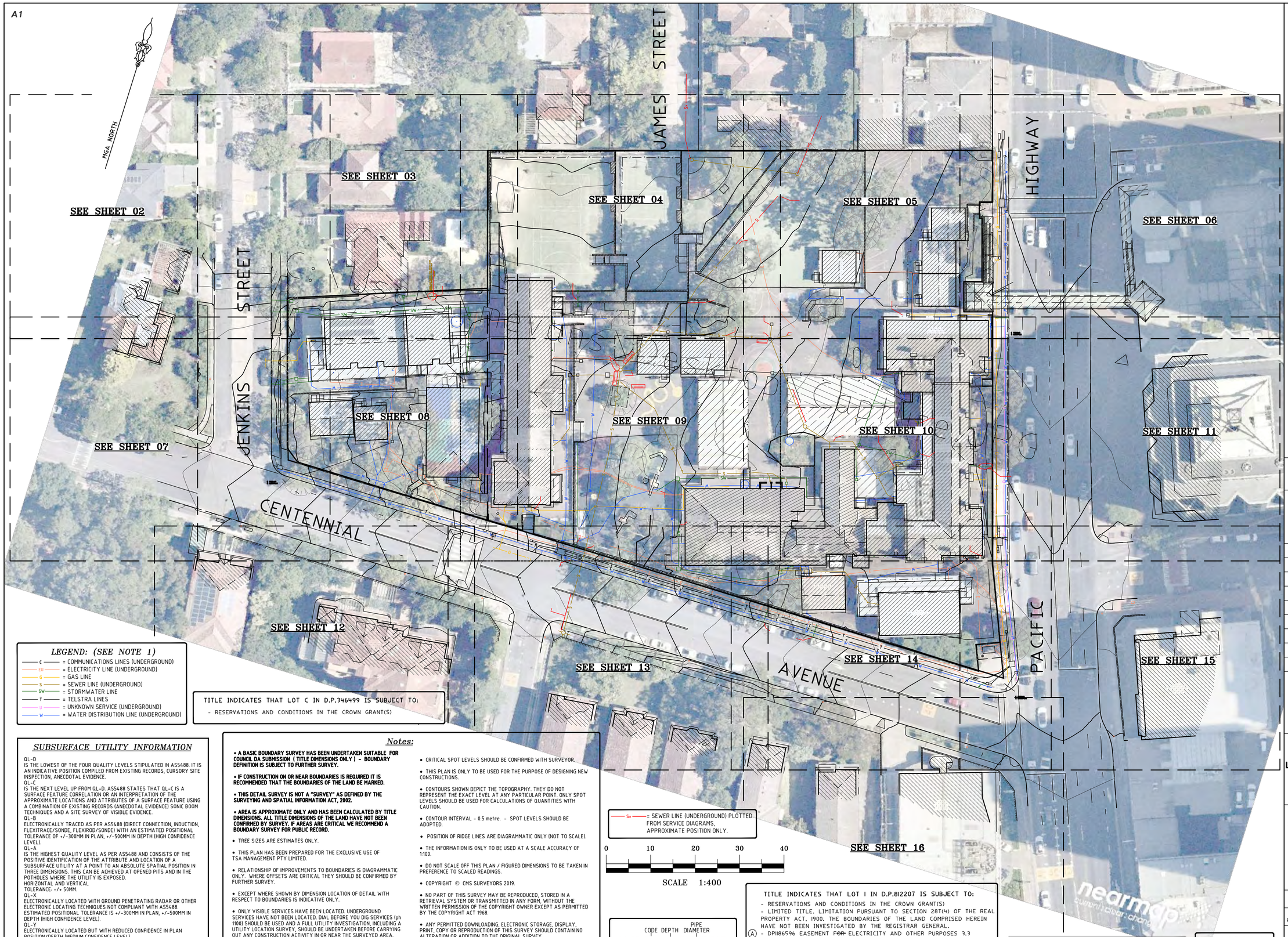
Upgrades to Chatswood Public School and Chatswood High School

Appendix 5 - Site Survey Public School

SSD 9483
Prepared by CMS Surveyors
For School Infrastructure NSW, Department of Education

Artists impression of upgrades to Chatswood Public School

A1



LEGEND

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CSL = COMMUNICATIONS SLA
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SLA = SURFACE LEVEL ABOVE
* TREE

HORIZONTAL DATUM:
CO-ORDINATE SYSTEM: MGA GROUND
MARKS ADOPTED: SSM36739, SSM165617

VERTICAL DATUM:
DATUM: AUSTRALIAN HEIGHT DATUM (AHD)
B.M. ADOPTED: SSM 36739
R.L. 106.823 (ORDER L2)
SOURCE: S.C.I.M.S. (17/01/18)

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5	FURTHER SEWER INVESTIGATION	11/10/19
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3	ADD TRUNCATION INFORMATION	04/02/19
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1	FIRST ISSUE	14/02/18

CLIENT:
SCHOOLS INFRASTRUCTURE NSW
LEVEL 8, 259 GEORGE STREET
SYDNEY NSW 2000

SURVEY PLAN
SHOWING DETAIL & LEVELS OVER
LOT 1 IN DP812207 & LOT C IN DP346499
CHATSWOOD PRIMARY SCHOOL
5 CENTENNIAL AVENUE,
CHATSWOOD NSW 2067

C.M.S. Surveyors Pty Limited
ACN: 096 240 201
PO Box 463 Dee Why NSW 2099
2/99A South Creek Road, Dee Why NSW 2099
Telephone: (02) 9971 4802
Facsimile: (02) 9971 4822
E-mail: info@cmssurveyors.com.au

LGA: WILLOUGHY | SHEET 1 OF 16

SURVEYED	DRAWN	CHECKED	APPROVED
PB/BB/TC/ME	GP	PB/BB/TC/ME	ML/DR

SURVEY INSTRUCTION	SCALE	DATE OF SURVEY
17485A	1:400 @ A1	10-17/01/18,14-15/02/19

DRAWING NAME: **17485detail**
CAD FILE: 17485Adetail 5.dwg
ISSUE: **5**

LEGEND: (SEE NOTE 1)

- C = COMMUNICATIONS LINES (UNDERGROUND)
- EU = ELECTRICITY LINE (UNDERGROUND)
- G = GAS LINE
- S = SEWER LINE (UNDERGROUND)
- SW = STORMWATER LINE
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TITLE INDICATES THAT LOT C IN D.P.346499 IS SUBJECT TO:
- RESERVATIONS AND CONDITIONS IN THE CROWN GRANT(S)

SUBSURFACE UTILITY INFORMATION

QL-D
IS THE LOWEST OF THE FOUR QUALITY LEVELS STIPULATED IN AS5488. IT IS AN INDICATIVE POSITION COMPILED FROM EXISTING RECORDS, CURSORY SITE INSPECTION, ANECDOTAL EVIDENCE.
QL-C
IS THE NEXT LEVEL UP FROM QL-D. AS5488 STATES THAT QL-C IS A SURFACE FEATURE CORRELATION OR AN INTERPRETATION OF THE APPROXIMATE LOCATIONS AND ATTRIBUTES OF A SURFACE FEATURE USING A COMBINATION OF EXISTING RECORDS (ANECDOTAL EVIDENCE) SONIC BOOM TECHNIQUES AND A SITE SURVEY OF VISIBLE EVIDENCE.
QL-B
ELECTRONICALLY TRACED AS PER AS5488 (DIRECT CONNECTION, INDUCTION, FLEXITRACE/SONDE, FLEXIROD/SONDE) WITH AN ESTIMATED POSITIONAL TOLERANCE OF +/-300MM IN PLAN, +/-500MM IN DEPTH (HIGH CONFIDENCE LEVEL).
QL-A
IS THE HIGHEST QUALITY LEVEL AS PER AS5488 AND CONSISTS OF THE POSITIVE IDENTIFICATION OF THE ATTRIBUTE AND LOCATION OF A SUBSURFACE UTILITY AT A POINT TO AN ABSOLUTE SPATIAL POSITION IN THREE DIMENSIONS. THIS CAN BE ACHIEVED AT OPENED PITS AND IN THE POTHOLES WHERE THE UTILITY IS EXPOSED.
HORIZONTAL AND VERTICAL
TOLERANCE: -/+ 50MM.
QL-X
ELECTRONICALLY LOCATED WITH GROUND PENETRATING RADAR OR OTHER ELECTRONIC LOCATING TECHNIQUES NOT COMPLIANT WITH AS5488.
ESTIMATED POSITIONAL TOLERANCE IS +/-300MM IN PLAN, +/-500MM IN DEPTH (HIGH CONFIDENCE LEVEL).
QL-Y
ELECTRONICALLY LOCATED BUT WITH REDUCED CONFIDENCE IN PLAN POSITION/DEPTH (MEDIUM CONFIDENCE LEVEL).
QL-Z
ELECTRONICALLY LOCATED WITH LOW CONFIDENCE LEVEL IN PLAN POSITION/DEPTH (LOW CONFIDENCE LEVEL).

Notes:

- **A BASIC BOUNDARY SURVEY HAS BEEN UNDERTAKEN SUITABLE FOR COUNCIL DA SUBMISSION (TITLE DIMENSIONS ONLY) - BOUNDARY DEFINITION IS SUBJECT TO FURTHER SURVEY.**
- **IF CONSTRUCTION ON OR NEAR BOUNDARIES IS REQUIRED IT IS RECOMMENDED THAT THE BOUNDARIES OF THE LAND BE MARKED.**
- **THIS DETAIL SURVEY IS NOT A "SURVEY" AS DEFINED BY THE SURVEYING AND SPATIAL INFORMATION ACT, 2002.**
- **AREA IS APPROXIMATE ONLY AND HAS BEEN CALCULATED BY TITLE DIMENSIONS. ALL TITLE DIMENSIONS OF THE LAND HAVE NOT BEEN CONFIRMED BY SURVEY. IF AREAS ARE CRITICAL WE RECOMMEND A BOUNDARY SURVEY FOR PUBLIC RECORD.**
- TREE SIZES ARE ESTIMATES ONLY.
- THIS PLAN HAS BEEN PREPARED FOR THE EXCLUSIVE USE OF TSA MANAGEMENT PTY LIMITED.
- RELATIONSHIP OF IMPROVEMENTS TO BOUNDARIES IS DIAGRAMMATIC ONLY. WHERE OFFSETS ARE CRITICAL THEY SHOULD BE CONFIRMED BY FURTHER SURVEY.
- EXCEPT WHERE SHOWN BY DIMENSION LOCATION OF DETAIL WITH RESPECT TO BOUNDARIES IS INDICATIVE ONLY.
- ONLY VISIBLE SERVICES HAVE BEEN LOCATED. UNDERGROUND SERVICES HAVE NOT BEEN LOCATED. DIAL BEFORE YOU DIG SERVICES (ph 1100) SHOULD BE USED AND A FULL UTILITY INVESTIGATION, INCLUDING A UTILITY LOCATION SURVEY, SHOULD BE UNDERTAKEN BEFORE CARRYING OUT ANY CONSTRUCTION ACTIVITY IN OR NEAR THE SURVEYED AREA.
- SEWER MAIN PLOTTED FROM SYDNEY WATER SEWER DIAGRAM. LOCATION SHOULD BE MARKED ON SITE IF CRITICAL.
- CRITICAL SPOT LEVELS SHOULD BE CONFIRMED WITH SURVEYOR.
- THIS PLAN IS ONLY TO BE USED FOR THE PURPOSE OF DESIGNING NEW CONSTRUCTIONS.
- CONTOURS SHOWN DEPICT THE TOPOGRAPHY. THEY DO NOT REPRESENT THE EXACT LEVEL AT ANY PARTICULAR POINT. ONLY SPOT LEVELS SHOULD BE USED FOR CALCULATIONS OF QUANTITIES WITH CAUTION.
- CONTOUR INTERVAL - 0.5 metre. - SPOT LEVELS SHOULD BE ADOPTED.
- POSITION OF RIDGE LINES ARE DIAGRAMMATIC ONLY (NOT TO SCALE).
- THE INFORMATION IS ONLY TO BE USED AT A SCALE ACCURACY OF 1:100.
- DO NOT SCALE OFF THIS PLAN / FIGURED DIMENSIONS TO BE TAKEN IN PREFERENCE TO SCALED READINGS.
- COPYRIGHT © CMS SURVEYORS 2019.
- NO PART OF THIS SURVEY MAY BE REPRODUCED, STORED IN A RETRIEVAL SYSTEM OR TRANSMITTED IN ANY FORM, WITHOUT THE WRITTEN PERMISSION OF THE COPYRIGHT OWNER EXCEPT AS PERMITTED BY THE COPYRIGHT ACT 1968.
- ANY PERMITTED DOWNLOADING, ELECTRONIC STORAGE, DISPLAY, PRINT, COPY OR REPRODUCTION OF THIS SURVEY SHOULD CONTAIN NO ALTERATION OR ADDITION TO THE ORIGINAL SURVEY.
- THIS NOTICE MUST NOT BE ERASED.

S — = SEWER LINE (UNDERGROUND) PLOTTED FROM SERVICE DIAGRAMS, APPROXIMATE POSITION ONLY.

0 10 20 30 40
SCALE 1:400

CODE	DEPTH	PIPE DIAMETER	
106.78	SSL	1.31	B 100Ø EOT
RL.		LOCATION QUALITY	NOTE

TITLE INDICATES THAT LOT 1 IN D.P.812207 IS SUBJECT TO:
- RESERVATIONS AND CONDITIONS IN THE CROWN GRANT(S)
- LIMITED TITLE. LIMITATION PURSUANT TO SECTION 28T(4) OF THE REAL PROPERTY ACT, 1900. THE BOUNDARIES OF THE LAND COMPRISED HEREIN HAVE NOT BEEN INVESTIGATED BY THE REGISTRAR GENERAL.
- (A) DP118696 EASEMENT FOR ELECTRICITY AND OTHER PURPOSES 3.3 METRE(S) WIDE AFFECTING THE PART(S) SHOWN SO BURDENED IN DP118696

REVISION CLOUDS & LETTERING REFERS TO SURVEYORS REPORT ON SERVICE PITS ACCOMPANIED BY THIS PAN. (B)

MGA TRUNCATION
EASTING: 331000
NORTHING: 6258000
ELEVATION: 0

A1

MGA NORTH

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NOTES

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• WARNING: UNKNOWN SERVICES MAY EXIST THAT COULD NOT BE ELECTRONICALLY DETECTED. THE DIAGRAMS OF THE SERVICE PROVIDER MAY NOT DEPICT ALL ASSETS WITHIN THEIR NETWORK AND SERVICE PROVIDERS MAY SHARE CONDUITS AND /OR TRENCHES AT THIS LOCATION.

• WARNING: SINGLE MARKED LINES MAY REPRESENT MULTIPLE CONDUITS, PIPES END/OR CABLES AT THIS LOCATION. THE RECORDING OF DEPTHS AND POSITION OF UTILITES CANNOT BE GUARANTEED AS CORRECT. WE RECOMMEND NON DESTRUCTIVE DIGGING/POTHOLING TO EXPOSE SERVICES FOR ACCURATE IDENTIFICATION AND DEPTH.

CAUTION: SURESEARCH HAVE SURVEYED WITHIN THE BOUNDARY OF THE SITE AND DURKIN HAVE SURVEYED THE ROAD RESERVE SURROUNDING THE SITE AND MARKED OUT EXISTING SERVICES IN THE AREA SPECIFIED BY THE CLIENT. THESE SERVICE LINES HAVE BEEN LOCATED BY ABOVE GROUND SERVICE TRACING METHODS AND HAVE NOT BEEN SIGHTED. CMS SURVEYORS HAVE THEN LOCATED THE LINE MARKED BY SURESEARCH. THE LOCATION OF THESE MARKED SERVICES ARE APPROXIMATE ONLY. THE POSITION OF THE MARKED SERVICE LINES HAS BEEN MADE WITH REFERENCE TO THE RELEVANT SERVICE AUTHORITY DIAGRAMS. ALL SERVICES MAY NOT HAVE BEEN SHOWN AND UTILITY DESCRIPTIONS HAVE BEEN TAKEN FROM UTILITY PROVIDED DIAGRAMS WHERE AVAILABLE. WE RECOMMEND NON DESTRUCTIVE DIGGING/POTHOLING TO EXPOSE MARKED SERVICES TO IDENTIFY AND SHOW EXACT DEPTH AND LOCATION OF SERVICE LINES PRIOR TO EARTHWORKS COMMENCING. UTILITIES PLOTTED ON THE PLAN THAT TERMINATE IN THE SPECIFIED AREA MAY GO TO FEATURES THAT HAVE NOT BEEN SHOWN ON THE BACKGROUND DETAIL SURVEY PROVIDED BY CLIENT. THE RISK REMAINS WITH THE CLIENT AND/OR SUB CONTRACTOR AND THEIR RESPONSIBILITY TO EXERCISE CAUTION AT ALL TIMES.

Point Table	
Pt. No.	Spread, Dia, Height
150	TR 8-3X0.3-8
151	TR 4-0.2-5
152	TR 8-3X0.25-7
153	TR 6-0.3-9
197	TR 8-0.55-15
198	TR 8-0.3-7
199	TR 6-0.3-11
200	TR 6-0.2-5
201	TR 10-0.4-12
202	TR 12-0.5-16
203	TR 4-0.2-7
204	TR 4-0.2-7
205	TR 4-0.2-7
206	TR 4-0.2-7
207	TR 4-0.2-7
246	TR 6-4X0.15-5
370	TR 8-0.4-6
372	TR 8-0.4-6
374	TR 12-0.5-9
375	TR 4-2X0.15-5

Point Table	
Pt. No.	Spread, Dia, Height
376	TR 5-0.2-4
491	TR 8-0.4-10
502	TR 8-0.4-14
503	TR 8-0.4-14
723	TR 8-0.25-9
784	TR 6-0.3-10
785	TR 6-0.3-10
786	TR 4-0.15-7
787	TR 4-0.2-9
788	TR 6-0.25-9
789	TR 6-0.25-9
790	TR 4-0.2-7
791	TR 10-0.4-12
792	TR 10-0.4-12
793	TR 10-0.4-12
5555	TR 8-0.4-10
5556	TR 5-0.3-8
5557	TR 5-0.3-8
5558	TR 14-0.6-12
5593	TR 5-0.2-6

Point Table	
Pt. No.	Spread, Dia, Height
5594	TR 8-0.6-12
5595	TR 6-0.3-5
5646	TR 8-0.25-8
5647	TR 8-M-6
5648	TR 8-0.2-10
5666	TR 6-0.3-5
5727	TR 6-0.3-5
5728	TR 6-2X0.2-5
5729	TR 6-0.4-7
5837	TR 8-0.5-16
5838	TR 10-0.7-16
5839	TR 8-0.4-12
5840	TR 8-0.6-16
5841	TR 8-0.5-15
5842	TR 8-3X0.2-6
5872	TR 8-0.6-18
5873	TR 8-0.6-18
5874	TR 4-0.2-6
5875	TR 8-0.4-14
5876	TR 8-0.6-18

Point Table	
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5877	TR 6-0.4-14
5878	TR 10-0.5-18
5879	TR 10-0.5-18
5880	TR 10-0.5-18
5881	TR 10-0.5-18
5882	TR 8-0.3-7
5921	TR 12-2X0.3-8
5936	TR 18-0.9-20
5969	TR 6-0.3-10
5970	TR 4-0.25-8
5985	TR 4-2X0.2-6
6014	TR 4-0.2-7
6015	TR 6-0.3-10
6016	TR 12-0.6-12
6017	TR 10-2X0.3-12
6018	TR 9-0.2-7
6019	TR 6-0.2-5
6020	TR 8-0.3-8

FOR EXTRA NOTES SEE SHEET 1
& FOR TREE TABLE SEE SHEET 2

0 1 2 3 4 5 6 7 8 9 10

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SHEET 2 OF 16

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204	TR 4-0.2-7
205	TR 4-0.2-7
206	TR 4-0.2-7
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785	TR 6-0.3-10
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787	TR 4-0.2-9
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Point Table	
Pt. No.	Spread, Dia, Height
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5595	TR 6-0.3-5
5646	TR 8-0.25-8
5647	TR 8-M-6
5648	TR 8-0.2-10
5666	TR 6-0.3-5
5727	TR 6-0.3-5
5728	TR 6-2X0.2-5
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- WARNING: UNKNOWN SERVICES MAY EXIST THAT COULD NOT BE ELECTRONICALLY DETECTED. THE DIAGRAMS OF THE SERVICE PROVIDER MAY NOT DEPICT ALL ASSETS WITHIN THEIR NETWORK AND SERVICE PROVIDERS MAY SHARE CONDUITS AND /OR TRENCHES AT THIS LOCATION.
- WARNING: SINGLE MARKED LINES MAY REPRESENT MULTIPLE CONDUITS, PIPES END/OR CABLES AT THIS LOCATION. THE RECORDING OF DEPTHS AND POSITION OF UTILITIES CANNOT BE GUARANTEED AS CORRECT. WE RECOMMEND NON DESTRUCTIVE DIGGING/POTHOLING TO EXPOSE SERVICES FOR ACCURATE IDENTIFICATION AND DEPTH.

CAUTION: SURESEARCH HAVE SURVEYED WITHIN THE BOUNDARY OF THE SITE AND DURKIN HAVE SURVEYED THE ROAD RESERVE SURROUNDING THE SITE AND MARKED OUT EXISTING SERVICES IN THE AREA SPECIFIED BY THE CLIENT. THESE SERVICE LINES HAVE BEEN LOCATED BY ABOVE GROUND SERVICE TRACING METHODS AND HAVE NOT BEEN SIGHTED. CMS SURVEYORS HAVE THEN LOCATED THE LINE MARKED BY SURESEARCH. THE LOCATION OF THESE MARKED SERVICES ARE APPROXIMATE ONLY. THE POSITION OF THE MARKED SERVICE LINES HAS BEEN MADE WITH REFERENCE TO THE RELEVANT SERVICE AUTHORITY DIAGRAMS. ALL SERVICES MAY NOT HAVE BEEN SHOWN AND UTILITY DESCRIPTIONS HAVE BEEN TAKEN FROM UTILITY PROVIDED DIAGRAMS WHERE AVAILABLE. WE RECOMMEND NON DESTRUCTIVE DIGGING/POTHOLING TO EXPOSE MARKED SERVICES TO IDENTIFY AND SHOW EXACT DEPTH AND LOCATION OF SERVICE LINES PRIOR TO EARTHWORKS COMMENCING. UTILITIES PLOTTED ON THE PLAN THAT TERMINATE IN THE SPECIFIED AREA MAY GO TO FEATURES THAT HAVE NOT BEEN SHOWN ON THE BACKGROUND DETAIL SURVEY PROVIDED BY CLIENT. THE RISK REMAINS WITH THE CLIENT AND/OR SUB CONTRACTOR AND THEIR RESPONSIBILITY TO EXERCISE CAUTION AT ALL TIMES.

FOR EXTRA NOTES SEE SHEET 1
& FOR TREE TABLE SEE SHEET 2

0 1 2 3 4 5 6 7 8 9 10
SCALE 1:100

LEGEND

AT = ASTRO TURF
EQU = PLAY EQUIPMENT
WT = WATER TANK
AW = AWNING
BAL = BALCONY
BIT = BITUMEN
BLD = EXTERNAL BUILDING
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COL = COLUMN
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DP = DOWN PIPE
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EOT= END OF TRACE
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FCE = FENCE
FHY = FIRE HYDRANT
FL = FLOOR LEVEL
FOD = FULL OF DIRT
FSL = FIBRE OPTIC SLA
GF = GUTTER LEVEL
GM = GAS METER
GRT = GRATE
GSL = GAS SLA
HL = HOOD LEVEL
HYD = HYDRANT
LAN = LANDING
LID = MISCELLANEOUS PIT LID
LP = LIGHT POLE
NS = NATURAL SURFACE
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UNS = UNDERSIDE LEVEL
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WSL = WATER SLA
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WV = WATER VALVE
SLA = SURFACE LEVEL ABOVE
TREE

HORIZONTAL DATUM:
CO-ORDINATE SYSTEM: MGA GROUND
MARKS ADOPTED: SSM36739, SSM165617

VERTICAL DATUM:
DATUM: AUSTRALIAN HEIGHT DATUM (AHD)
B.M. ADOPTED: SSM 36739
R.L. 106.823 (ORDER L2)
SOURCE: S.C.I.M.S. (17/01/18)

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CMS SURVEYORS
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Telephone: (02) 9971 4802
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E-mail: info@cmssurveyors.com.au

LGA: WILLOUGHY
SHEET 3 OF 16

SURVEYED	DRAWN	CHECKED	APPROVED
PB/BB/TC/ME	GP	PB/BB/TC/ME	ML/DR

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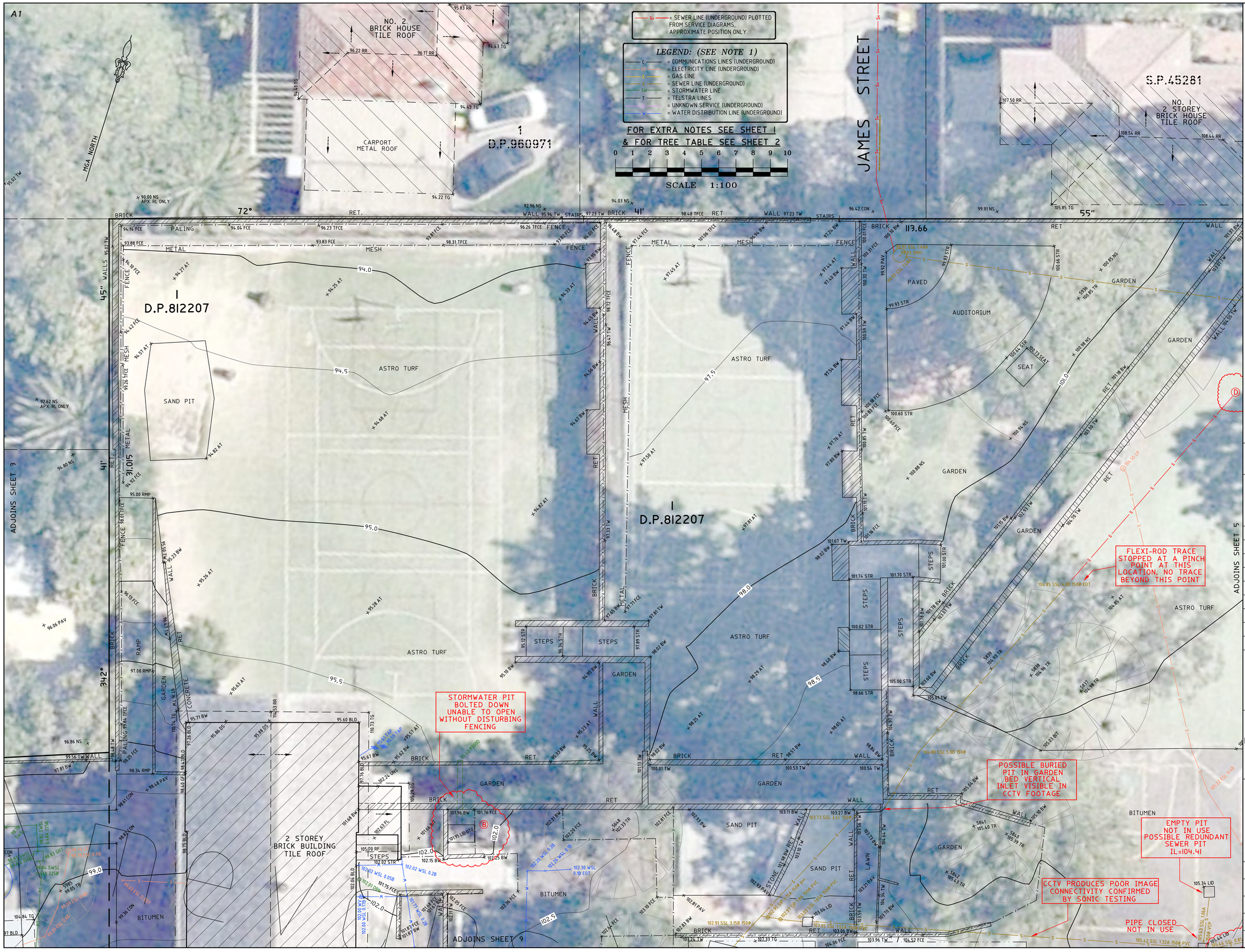
17485A	1:100 @ A1	10-17/01/18,14-15/02/19

DRAWING NAME: **17485detail**
CAD FILE: 17485Adetail 5.dwg
ISSUE: **5**



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LGA: WILLOUGHY | SHEET 4 OF 16

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DRAWING NAME: **17485detail**
CAD FILE: 17485Adetail 5.dwg
ISSUE: **5**

A1

LEGEND: (SEE NOTE 1)

- C = COMMUNICATIONS LINES (UNDERGROUND)
- E = ELECTRICITY LINE (UNDERGROUND)
- G = GAS LINE
- S = SEWER LINE (UNDERGROUND)
- SW = STORMWATER LINE
- T = TELSTRA LINES
- U = UNKNOWN SERVICE (UNDERGROUND)
- W = WATER DISTRIBUTION LINE (UNDERGROUND)

S = SEWER LINE (UNDERGROUND) PLOTTED FROM SERVICE DIAGRAMS, APPROXIMATE POSITION ONLY.

FOR EXTRA NOTES SEE SHEET 1 & FOR TREE TABLE SEE SHEET 2

0 1 2 3 4 5 6 7 8 9 10

SCALE 1:100

S.P.45281

NO. 1 2 STOREY BRICK HOUSE TILE ROOF

1 D.P.838366

NO. 688 2 STOREY BRICK & RENDERED BUILDING METAL ROOF

1 D.P.812207

2 D.P.812207

BITUMEN CARPARK

2 STOREY BRICK BUILDING TILE & METAL ROOF

DEMOUNTABLE BUILDING METAL ROOF

METAL ROOF OVER STEPS

METAL ROOF OVER CONCRETE FOOT BRIDGE

ASTRO TURF

GARDEN

BITUMEN

CONCRETE

STEPS

FENCE

BRICK WALL

RENDERED RET. WALL

VEHICLE CROSSING

GUTTER

KERB

PEDESTRIAN CROSSING

(BITUMEN FORMATION)

HIGHWAY

PACIFIC

MGA NORTH

ADJOINS SHEET 4

ADJOINS SHEET 6

ADJOINS SHEET 10

CCTV SEW-1X

SEW-1

SEWER PIT INSPECTION CONFIRMS REDUNDANT CONNECTION AS REFLECTED IN DBYD DIAGRAMS

FLEXI-ROD TRACE STOPPED AT A PINCH POINT AT THIS LOCATION, NO TRACE BEYOND THIS POINT

CONC. PIT INSCRIBED WITH 'GAS' PIT SET IN BITUMEN UNABLE TO OPEN SAFELY

EMPTY PIT NOT IN USE POSSIBLE REDUNDANT SEWER PIT IL=104.41

POOR IMAGE CONFIRMED TESTING

PIPE CLOSED NOT IN USE

100Φ PVC INLET UNABLE TO BE TRACED DUE TO SMALL PIPE SIZE & POSSIBLE BEND IN PIPE POSSIBLE ORIGIN = TAP DRAIN

BENCH MARK
SSM36739 IN KERB
RL 106.82
E 331363.12
N 6258741.21

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LGA: WILLOUGHY | SHEET 5 OF 16

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ISSUE: 5

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SHEET 6 OF 16

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SHEET 7 OF 16

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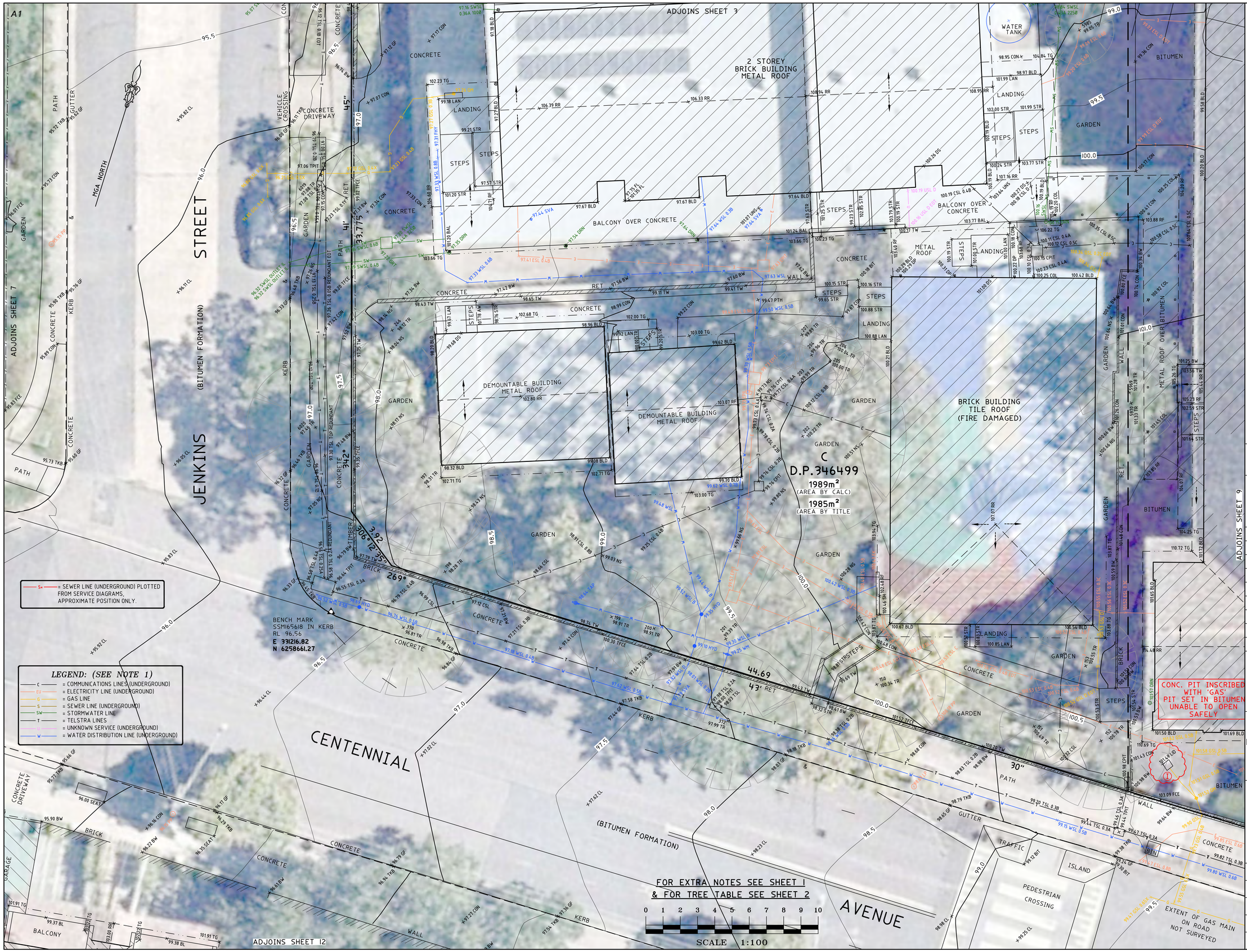

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WV = WATER VALVE
SLA = SURFACE LEVEL ABOVE
TREE

HORIZONTAL DATUM:
CO-ORDINATE SYSTEM: MGA GROUND
MARKS ADOPTED: SSM36739, SSM165617

VERTICAL DATUM:
DATUM: AUSTRALIAN HEIGHT DATUM (AHD)
B.M. ADOPTED: SSM 36739
R.L. 106.823 (ORDER L2)
SOURCE: S.C.I.M.S. (17/01/18)

6	AERIAL IMAGE UPDATED	01/11/19
5	FURTHER SEWER INVESTIGATION	11/10/19
4	FURTHER SERVICES INVESTIGATION	27/02/19
3	ADD TRUNCATION INFORMATION	04/02/19
2	EXTRA DETAIL ADDED	21/01/19
1	FIRST ISSUE	14/02/18

CLIENT:
SCHOOLS INFRASTRUCTURE NSW
LEVEL 8, 259 GEORGE STREET
SYDNEY NSW 2000

SURVEY PLAN
SHOWING DETAIL & LEVELS OVER
LOT 1 IN DP812207 & LOT C IN DP346499
CHATSWOOD PRIMARY SCHOOL
5 CENTENNIAL AVENUE,
CHATSWOOD NSW 2067

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LGA: WILLOUGHY | SHEET 8 OF 16

SURVEYED	DRAWN	CHECKED	APPROVED
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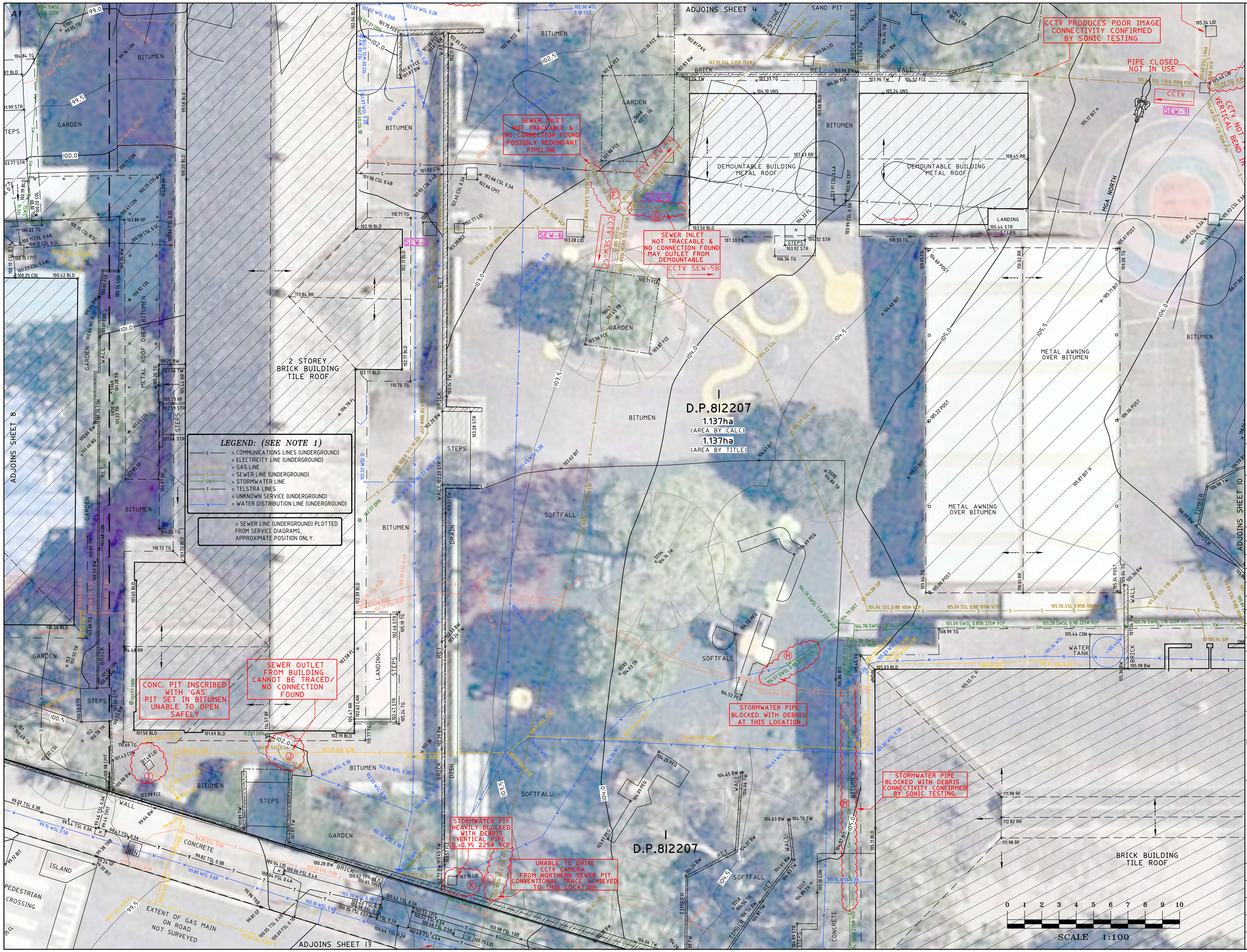
SURVEY INSTRUCTION	SCALE	DATE OF SURVEY
17485A	1:100 @ A1	10-17/01/18,14-15/02/19

DRAWING NAME: **17485detail**
CAD FILE: 17485Adetail 5.dwg
ISSUE: **5**



LEGEND

AT = ASTRO TURF
EQU = PLAY EQUIPMENT
WT = WATER TANK
AW = AWNING
BAL = BALCONY
BIT = BITUMEN
BLD = EXTERNAL BUILDING
BW = BOTTOM WALL
CHI = CHIMNEY
CL = CENTRELINE
COL = COLUMN
CON = CONCRETE
CPIT = COMMUNICATIONS PIT
CSL = COMMUNICATIONS SLA
DP = DOWN PIPE
DS = DOOR SILL LEVEL
EK = ELECTRICITY KIOSK
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FSL = FIBRE OPTIC SLA
GF = GUTTER LEVEL
GM = GAS METER
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GSL = GAS SLA
HL = HOOD LEVEL
HYD = HYDRANT
LAN = LANDING
LID = MISCELLANEOUS PIT LID
LP = LIGHT POLE
NS = NATURAL SURFACE
PAR = PARAPET
PAT = PATIO
PAV = PAVING
PIT = TOP OF PIT
POST = POST
PTH = PATH
RF = TOP OF ROOF
RMP = RAMP
RR = ROOF RIDGE
SGW = SALT GLAZED WARE PIPE
SIP = SEWER INSPECTION PIT
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SMH = SEWER MAN HOLE
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UNS = UNDERSIDE LEVEL
USL = UNKNOWN SERVICE SLA
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WM = WATER METER
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TREE

FOR EXTRA NOTES SEE SHEET 1 & FOR TREE TABLE SEE SHEET 2

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LGA: WILLOUGHY | SHEET 9 OF 16

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SLA = SURFACE LEVEL ABOVE
TREE

LEGEND: (SEE NOTE 1)

C = COMMUNICATIONS LINES (UNDERGROUND)
E = ELECTRICITY LINE (UNDERGROUND)
G = GAS LINE
S = SEWER LINE (UNDERGROUND)
SW = STORMWATER LINE
T = TELSTRA LINES
X = UNKNOWN SERVICE (UNDERGROUND)
W = WATER DISTRIBUTION LINE (UNDERGROUND)

FOR EXTRA NOTES SEE SHEET 1
& FOR TREE TABLE SEE SHEET 2

Sx = SEWER LINE (UNDERGROUND) PLOTTED FROM SERVICE DIAGRAMS, APPROXIMATE POSITION ONLY.

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LGA: WILLOUGHY
SHEET 10 OF 16

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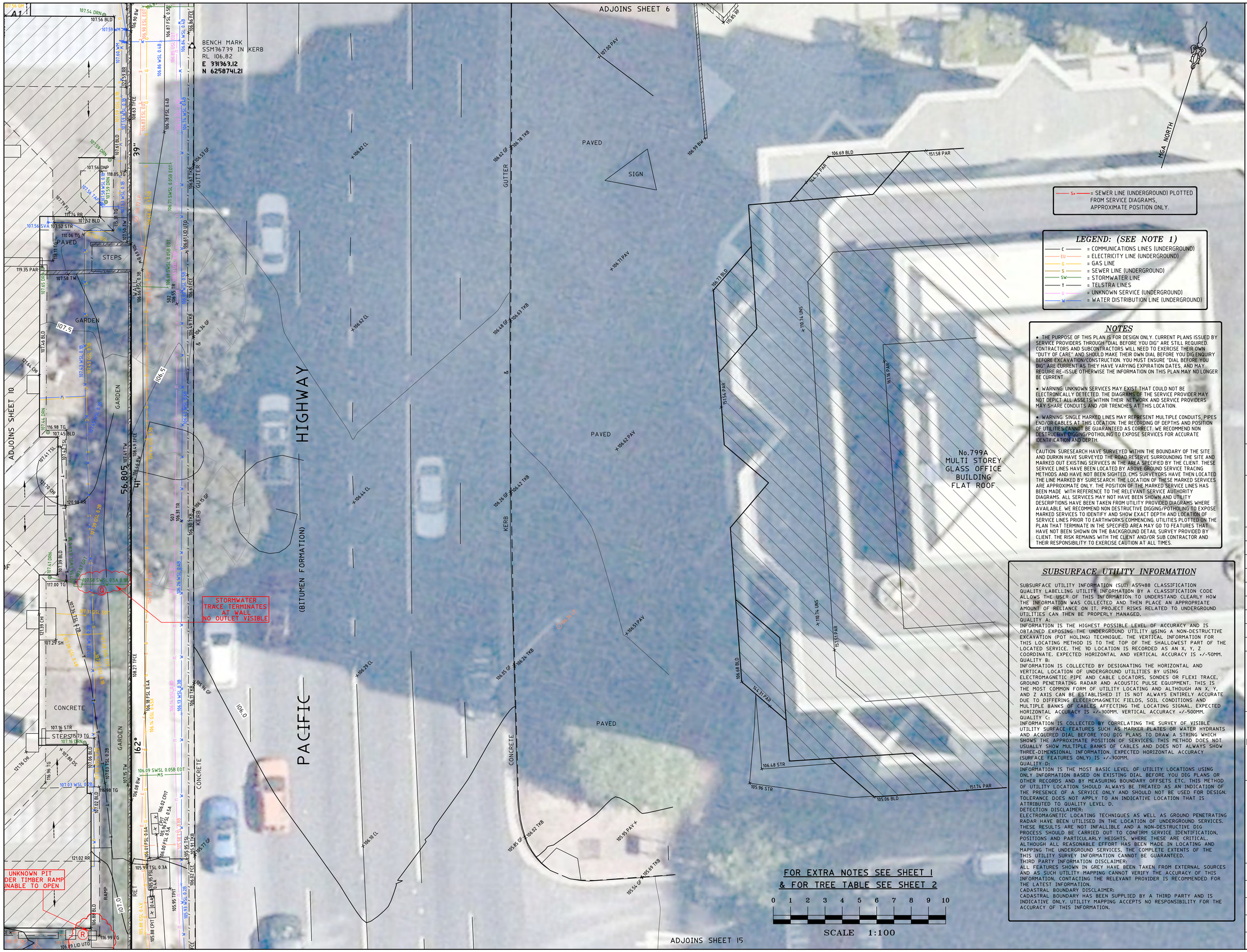

LEGEND: (SEE NOTE 1)

- C = COMMUNICATIONS LINES (UNDERGROUND)
- EU = ELECTRICITY LINE (UNDERGROUND)
- G = GAS LINE
- S = SEWER LINE (UNDERGROUND)
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- W = WATER DISTRIBUTION LINE (UNDERGROUND)

NOTES

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- WARNING: UNKNOWN SERVICES MAY EXIST THAT COULD NOT BE ELECTRONICALLY DETECTED. THE DIAGRAMS OF THE SERVICE PROVIDER MAY NOT DEPICT ALL ASSETS WITHIN THEIR NETWORK AND SERVICE PROVIDERS MAY SHARE CONDUITS AND /OR TRENCHES AT THIS LOCATION.

- WARNING: SINGLE MARKED LINES MAY REPRESENT MULTIPLE CONDUITS, PIPES END/OR CABLES AT THIS LOCATION. THE RECORDING OF DEPTHS AND POSITION OF UTILITIES CANNOT BE GUARANTEED AS CORRECT. WE RECOMMEND NON DESTRUCTIVE DIGGING/POTHOLING TO EXPOSE SERVICES FOR ACCURATE IDENTIFICATION AND DEPTH.

CAUTION: SURESEARCH HAVE SURVEYED WITHIN THE BOUNDARY OF THE SITE AND DURKIN HAVE SURVEYED THE ROAD RESERVE SURROUNDING THE SITE AND MARKED OUT EXISTING SERVICES IN THE AREA SPECIFIED BY THE CLIENT. THESE SERVICE LINES HAVE BEEN LOCATED BY ABOVE GROUND SERVICE TRACING METHODS AND HAVE NOT BEEN SIGHTED. CMS SURVEYORS HAVE THEN LOCATED THE LINE MARKED BY SURESEARCH. THE LOCATION OF THESE MARKED SERVICES ARE APPROXIMATE ONLY. THE POSITION OF THE MARKED SERVICE LINES HAS BEEN MADE WITH REFERENCE TO THE RELEVANT SERVICE AUTHORITY DIAGRAMS. ALL SERVICES MAY NOT HAVE BEEN SHOWN AND UTILITY DESCRIPTIONS HAVE BEEN TAKEN FROM UTILITY PROVIDED DIAGRAMS WHERE AVAILABLE. WE RECOMMEND NON DESTRUCTIVE DIGGING/POTHOLING TO EXPOSE MARKED SERVICES TO IDENTIFY AND SHOW EXACT DEPTH AND LOCATION OF SERVICE LINES PRIOR TO EARTHWORKS COMMENCING. UTILITIES PLOTTED ON THE PLAN THAT TERMINATE IN THE SPECIFIED AREA MAY GO TO FEATURES THAT HAVE NOT BEEN SHOWN ON THE BACKGROUND DETAIL SURVEY PROVIDED BY CLIENT. THE RISK REMAINS WITH THE CLIENT AND/OR SUB CONTRACTOR AND THEIR RESPONSIBILITY TO EXERCISE CAUTION AT ALL TIMES.

SUBSURFACE UTILITY INFORMATION

SUBSURFACE UTILITY INFORMATION (SUI) AS5488 CLASSIFICATION QUALITY LABELLING UTILITY INFORMATION BY A CLASSIFICATION CODE ALLOWS THE USER OF THIS INFORMATION TO UNDERSTAND CLEARLY HOW THE INFORMATION WAS COLLECTED AND THEN PLACE AN APPROPRIATE AMOUNT OF RELIANCE ON IT. PROJECT RISKS RELATED TO UNDERGROUND UTILITIES CAN THEN BE PROPERLY MANAGED.
QUALITY A:
INFORMATION IS THE HIGHEST POSSIBLE LEVEL OF ACCURACY AND IS OBTAINED EXPOSING THE UNDERGROUND UTILITY USING A NON-DESTRUCTIVE EXCAVATION (POT HOLING) TECHNIQUE. THE VERTICAL INFORMATION FOR THIS LOCATING METHOD IS TO THE TOP OF THE SHALLOWEST PART OF THE LOCATED SERVICE. THE 3D LOCATION IS RECORDED AS AN X, Y, Z COORDINATE. EXPECTED HORIZONTAL AND VERTICAL ACCURACY IS +/-50MM.
QUALITY B:
INFORMATION IS COLLECTED BY DESIGNATING THE HORIZONTAL AND VERTICAL LOCATION OF UNDERGROUND UTILITIES BY USING ELECTROMAGNETIC PIPE AND CABLE LOCATORS, SONDES OR FLEXI TRACE, GROUND PENETRATING RADAR AND ACOUSTIC PULSE EQUIPMENT. THIS IS THE MOST COMMON FORM OF UTILITY LOCATING AND ALTHOUGH AN X, Y, AND Z AXIS CAN BE ESTABLISHED IT IS NOT ALWAYS ENTIRELY ACCURATE DUE TO DIFFERING ELECTROMAGNETIC FIELDS, SOIL CONDITIONS AND MULTIPLE BANKS OF CABLES AFFECTING THE LOCATING SIGNAL. EXPECTED HORIZONTAL ACCURACY IS +/-300MM. VERTICAL ACCURACY +/-500MM.
QUALITY C:
INFORMATION IS COLLECTED BY CORRELATING THE SURVEY OF VISIBLE UTILITY SURFACE FEATURES SUCH AS MARKER PLATES OR WATER HYDRANTS AND ACQUIRED DIAL BEFORE YOU DIG PLANS TO DRAW A STRING WHICH SHOWS THE APPROXIMATE POSITION OF SERVICES. THIS METHOD DOES NOT USUALLY SHOW MULTIPLE BANKS OF CABLES AND DOES NOT ALWAYS SHOW THREE-DIMENSIONAL INFORMATION. EXPECTED HORIZONTAL ACCURACY (SURFACE FEATURES ONLY) IS +/-300MM.
QUALITY D:
INFORMATION IS THE MOST BASIC LEVEL OF UTILITY LOCATIONS USING ONLY INFORMATION BASED ON EXISTING DIAL BEFORE YOU DIG PLANS OR OTHER RECORDS AND BY MEASURING BOUNDARY OFFSETS ETC. THIS METHOD OF UTILITY LOCATION SHOULD ALWAYS BE TREATED AS AN INDICATION OF THE PRESENCE OF A SERVICE ONLY AND SHOULD NOT BE USED FOR DESIGN. TOLERANCE DOES NOT APPLY TO AN INDICATIVE LOCATION THAT IS ATTRIBUTED TO QUALITY LEVEL D.
DETECTION DISCLAIMER:
ELECTROMAGNETIC LOCATING TECHNIQUES AS WELL AS GROUND PENETRATING RADAR HAVE BEEN UTILISED IN THE LOCATION OF UNDERGROUND SERVICES. THESE RESULTS ARE NOT INFALLIBLE AND A NON-DESTRUCTIVE DIG PROCESS SHOULD BE CARRIED OUT TO CONFIRM SERVICE IDENTIFICATION, POSITIONS AND PARTICULARLY HEIGHTS, WHERE THESE ARE CRITICAL. ALTHOUGH ALL REASONABLE EFFORT HAS BEEN MADE IN LOCATING AND MAPPING THE UNDERGROUND SERVICES, THE COMPLETE EXTENTS OF THE THIS UTILITY SURVEY INFORMATION CANNOT BE GUARANTEED.
THIRD PARTY INFORMATION DISCLAIMER:
ALL FEATURES SHOWN IN GREY HAVE BEEN TAKEN FROM EXTERNAL SOURCES AND AS SUCH UTILITY MAPPING CANNOT VERIFY THE ACCURACY OF THIS INFORMATION. CONTACTING THE RELEVANT PROVIDER IS RECOMMENDED FOR THE LATEST INFORMATION.
CADASTRAL BOUNDARY DISCLAIMER:
CADASTRAL BOUNDARY HAS BEEN SUPPLIED BY A THIRD PARTY AND IS INDICATIVE ONLY. UTILITY MAPPING ACCEPTS NO RESPONSIBILITY FOR THE ACCURACY OF THIS INFORMATION.

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LGA: WILLOUGHY | SHEET 11 OF 16

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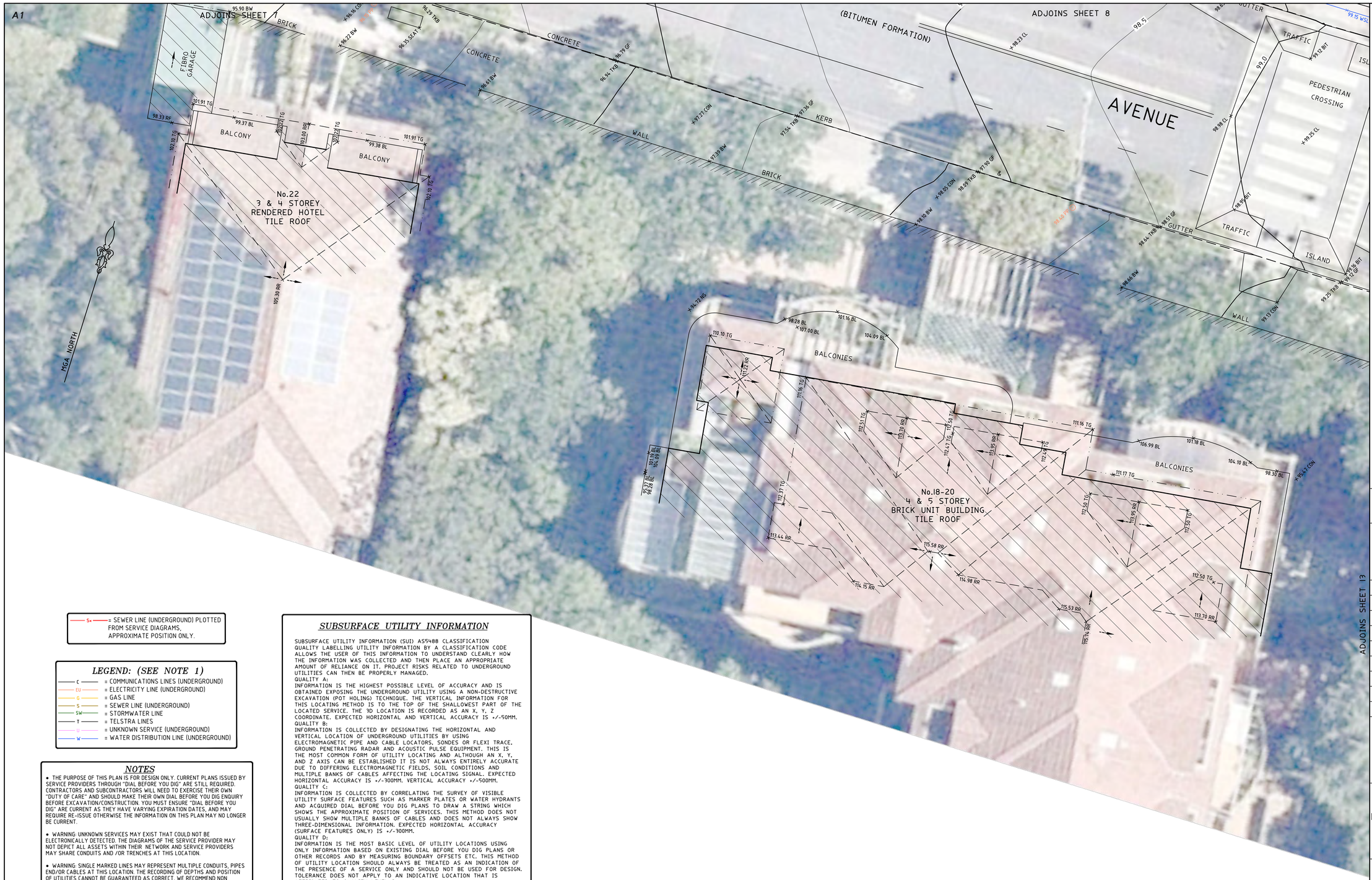
A1



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CAUTION: SURESEARCH HAVE SURVEYED WITHIN THE BOUNDARY OF THE SITE AND DURKIN HAVE SURVEYED THE ROAD RESERVE SURROUNDING THE SITE AND MARKED OUT EXISTING SERVICES IN THE AREA SPECIFIED BY THE CLIENT. THESE SERVICE LINES HAVE BEEN LOCATED BY ABOVE GROUND SERVICE TRACING METHODS AND HAVE NOT BEEN SIGHTED. CMS SURVEYORS HAVE THEN LOCATED THE LINE MARKED BY SURESEARCH THE LOCATION OF THESE MARKED SERVICES ARE APPROXIMATE ONLY. THE POSITION OF THE MARKED SERVICE LINES HAS BEEN MADE WITH REFERENCE TO THE RELEVANT SERVICE AUTHORITY DIAGRAMS. ALL SERVICES MAY NOT HAVE BEEN SHOWN AND UTILITY DESCRIPTIONS HAVE BEEN TAKEN FROM UTILITY PROVIDED DIAGRAMS WHERE AVAILABLE. WE RECOMMEND NON DESTRUCTIVE DIGGING/POTHOLING TO EXPOSE MARKED SERVICES TO IDENTIFY AND SHOW EXACT DEPTH AND LOCATION OF SERVICE LINES PRIOR TO EARTHWORKS COMMENCING. UTILITIES PLOTTED ON THE PLAN THAT TERMINATE IN THE SPECIFIED AREA MAY GO TO FEATURES THAT HAVE NOT BEEN SHOWN ON THE BACKGROUND DETAIL SURVEY PROVIDED BY CLIENT. THE RISK REMAINS WITH THE CLIENT AND/OR SUB CONTRACTOR AND THEIR RESPONSIBILITY TO EXERCISE CAUTION AT ALL TIMES.

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DETECTION DISCLAIMER:
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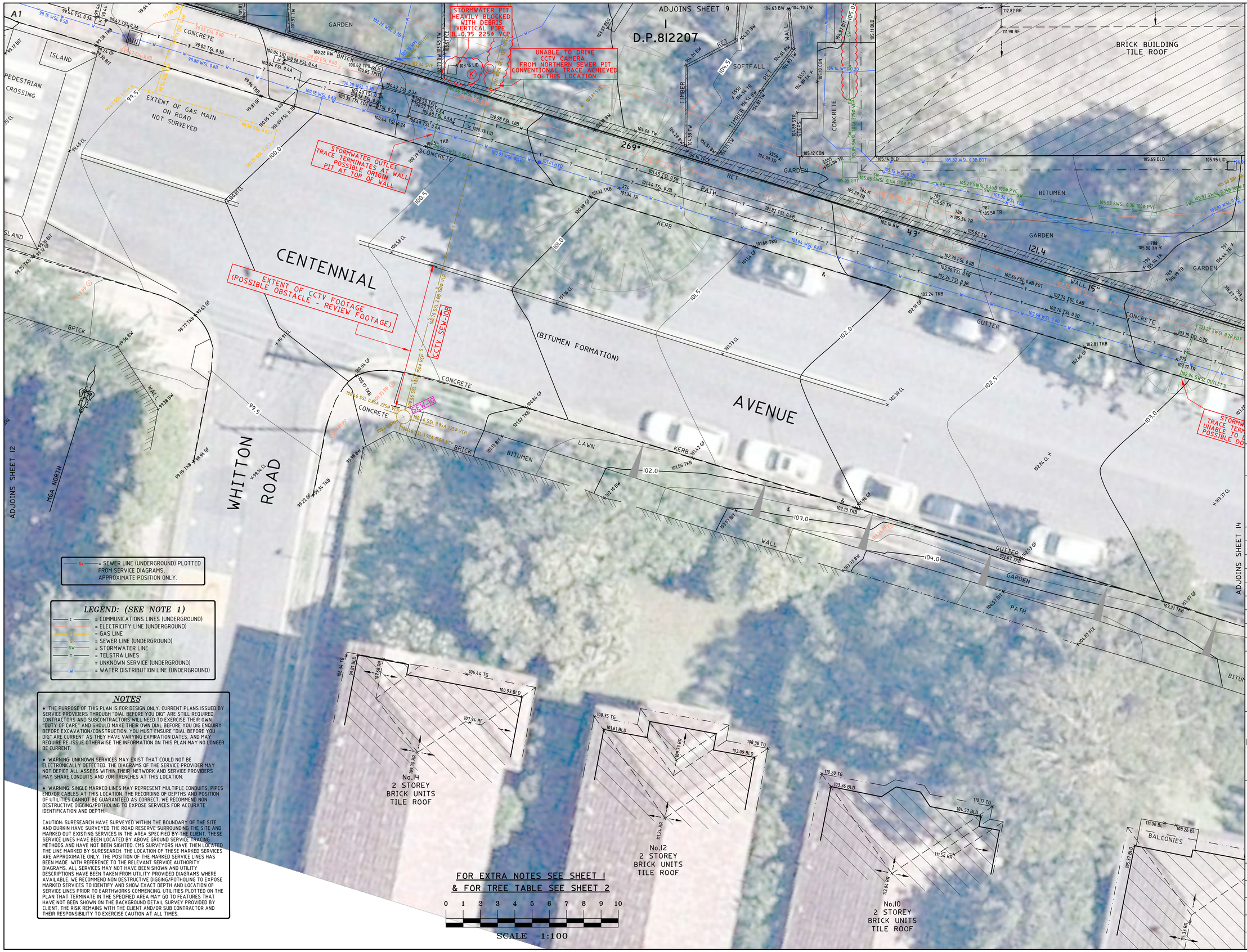
FOR EXTRA NOTES SEE SHEET 1
& FOR TREE TABLE SEE SHEET 2

0 1 2 3 4 5 6 7 8 9 10

SCALE 1:100



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LEGEND

AT = ASTRO TURF
EQU = PLAY EQUIPMENT
WT = WATER TANK
AW = AWNING
BAL = BALCONY
BIT = BITUMEN
BLD = EXTERNAL BUILDING
BW = BOTTOM WALL
CHI = CHIMNEY
CL = CENTRELINE
COL = COLUMN
CON = CONCRETE
CPIT = COMMUNICATIONS PIT
CSL = COMMUNICATIONS SLA
DP = DOWN PIPE
DS = DOOR SILL LEVEL
EK = ELECTRICITY KIOSK
EOT= END OF TRACE
EPIT = ELECTRICITY PIT
ESL = ELECTRICITY SLA
FCE = FENCE
FHY = FIRE HYDRANT
FL = FLOOR LEVEL
FOD = FULL OF DIRT
FSL = FIBRE OPTIC SLA
GF = GUTTER LEVEL
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SVA = STOP VALVE
SWSL = STORMWATER SLA
TAP = TAP
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TLI = TRAFFIC LIGHT
TPIT = TELSTRA PIT
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TSL = TELSTRA SLA
TW = TOP OF WALL
UNS = UNDERSIDE LEVEL
USL = UNKNOWN SERVICE SLA
UTO = UNABLE TO OPEN
WM = WATER METER
WSL = WATER SLA
WT = WATER TANK
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TREE

HORIZONTAL DATUM:
CO-ORDINATE SYSTEM: MGA GROUND
MARKS ADOPTED: SSM36739, SSM165617

VERTICAL DATUM:
DATUM: AUSTRALIAN HEIGHT DATUM (AHD)
B.M. ADOPTED: SSM 36739
R.L. 106.823 (ORDER L2)
SOURCE: S.C.I.M.S. (17/01/18)

6	AERIAL IMAGE UPDATED	01/11/19
5	FURTHER SEWER INVESTIGATION	11/10/19
4	FURTHER SERVICES INVESTIGATION	27/02/19
3	ADD TRUNCATION INFORMATION	04/02/19
2	EXTRA DETAIL ADDED	21/01/19
1	FIRST ISSUE	14/02/18

CLIENT:
SCHOOLS INFRASTRUCTURE NSW
LEVEL 8, 259 GEORGE STREET
SYDNEY NSW 2000

SURVEY PLAN
SHOWING DETAIL & LEVELS OVER
LOT 1 IN DP812207 & LOT C IN DP346499
CHATSWOOD PRIMARY SCHOOL
5 CENTENNIAL AVENUE,
CHATSWOOD NSW 2067

C.M.S. Surveyors Pty Limited
ACN: 096 240 201
PO Box 463 Dee Why NSW 2099
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Telephone: (02) 9971 4802
Facsimile: (02) 9971 4822
E-mail: info@cmssurveyors.com.au

LGA: WILLOUGHY | SHEET 13 OF 16

SURVEYED	DRAWN	CHECKED	APPROVED
PB/BB/TC/ME	GP	PB/BB/TC/ME	ML/DR

SURVEY INSTRUCTION	SCALE	DATE OF SURVEY
17485A	1:100 @ A1	10-17/01/18,14-15/02/19

DRAWING NAME: **17485detail**
CAD FILE: 17485Adetail 5.dwg
ISSUE: **5**

FOR EXTRA NOTES SEE SHEET 1
& FOR TREE TABLE SEE SHEET 2

0 1 2 3 4 5 6 7 8 9 10

SCALE 1:100

SW = SEWER LINE (UNDERGROUND) PLOTTED FROM SERVICE DIAGRAMS, APPROXIMATE POSITION ONLY.

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SHEET 14 OF 16

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CMS SURVEYORS
ACN: 096 240 201
PO Box 463 Dee Why NSW 2099
2/99A South Creek Road, Dee Why NSW 2099
Telephone: (02) 9971 4802
Facsimile: (02) 9971 4822
E-mail: info@cmssurveyors.com.au

LGA: WILLOUGHY
SHEET 15 OF 16

SURVEYED	DRAWN	CHECKED	APPROVED
PB/BB/TC/ME	GP	PB/BB/TC/ME	ML/DR

SURVEY INSTRUCTION	SCALE	DATE OF SURVEY
17485A	1:100 @ A1	10-17/01/18,14-15/02/19

DRAWING NAME
17485detail
CAD FILE
17485Adetail 5.dwg
ISSUE
5

LEGEND

AT = ASTRO TURF
EQU = PLAY EQUIPMENT
WT = WATER TANK
AW = AWNING
BAL = BALCONY
BIT = BITUMEN
BLD = EXTERNAL BUILDING
BW = BOTTOM WALL
CHI = CHIMNEY
CL = CENTRELINE
COL = COLUMN
CON = CONCRETE
CPIT = COMMUNICATIONS PIT
CSL = COMMUNICATIONS SLA
DP = DOWN PIPE
DS = DOOR SILL LEVEL
EK = ELECTRICITY KIOSK
EOT= END OF TRACE
EPIT = ELECTRICITY PIT
ESL = ELECTRICITY SLA
FCE = FENCE
FHY = FIRE HYDRANT
FL = FLOOR LEVEL
FOD = FULL OF DIRT
FSL = FIBRE OPTIC SLA
GF = GUTTER LEVEL
GM = GAS METER
GRT = GRATE
GSL = GAS SLA
HL = HOOD LEVEL
HYD = HYDRANT
LAN = LANDING
LID = MISCELLANEOUS PIT LID
LP = LIGHT POLE
NS = NATURAL SURFACE
PAR = PARAPET
PAT = PATIO
PAV = PAVING
PIT = TOP OF PIT
POST = POST
PTH = PATH
RF = TOP OF ROOF
RMP = RAMP
RR = ROOF RIDGE
SGW = SALT GLAZED WARE PIPE
SIP = SEWER INSPECTION PIT
SL = SILL LEVEL
SMH = SEWER MAN HOLE
SH = SPOT HEIGHT
SSL = SEWER SLA
STR = STAIRS
SVA = STOP VALVE
SWSL = STORMWATER SLA
TAP = TAP
TFCE = TOP OF FENCE
TG = TOP OF GUTTER
TKB = TOP OF KERB
TLI = TRAFFIC LIGHT
TPIT = TELSTRA PIT
TR = TREE
TSL = TELSTRA SLA
TW = TOP OF WALL
UNS = UNDERSIDE LEVEL
USL = UNKNOWN SERVICE SLA
UTO = UNABLE TO OPEN
WM = WATER METER
WSL = WATER SLA
WT = WATER TANK
WV = WATER VALVE
SLA = SURFACE LEVEL ABOVE
TREE

HORIZONTAL DATUM:
CO-ORDINATE SYSTEM: MGA GROUND
MARKS ADOPTED: SSM36739, SSM165617

VERTICAL DATUM:
DATUM: AUSTRALIAN HEIGHT DATUM (AHD)
B.M. ADOPTED: SSM 36739
R.L. 106.823 (ORDER L2)
SOURCE: S.C.I.M.S. (17/01/18)

6	AERIAL IMAGE UPDATED	01/11/19
5	FURTHER SEWER INVESTIGATION	11/10/19
4	FURTHER SERVICES INVESTIGATION	27/02/19
3	ADD TRUNCATION INFORMATION	04/02/19
2	EXTRA DETAIL ADDED	21/01/19
1	FIRST ISSUE	14/02/18

CLIENT:
SCHOOLS INFRASTRUCTURE NSW
LEVEL 8, 259 GEORGE STREET
SYDNEY NSW 2000

SURVEY PLAN
SHOWING DETAIL & LEVELS OVER
LOT 1 IN DP812207 & LOT C IN DP346499
CHATSWOOD PRIMARY SCHOOL
5 CENTENNIAL AVENUE,
CHATSWOOD NSW 2067

C.M.S. Surveyors Pty Limited
CMS SURVEYORS
ACN: 096 240 201
PO Box 463 Dee Why NSW 2099
2/99A South Creek Road, Dee Why NSW 2099
Telephone: (02) 9971 4802
Facsimile: (02) 9971 4822
E-mail: info@cmssurveyors.com.au

LGA: WILLOUGHY
SHEET 16 OF 16

SURVEYED	DRAWN	CHECKED	APPROVED
PB/BB/TC/ME	GP	PB/BB/TC/ME	ML/DR

SURVEY INSTRUCTION	SCALE	DATE OF SURVEY
17485A	1:100 @ A1	10-17/01/18,14-15/02/19

DRAWING NAME
17485detail
CAD FILE
17485Adetail 5.dwg
ISSUE
5

= SEWER LINE (UNDERGROUND) PLOTTED FROM SERVICE DIAGRAMS, APPROXIMATE POSITION ONLY.

LEGEND: (SEE NOTE 1)

- C = COMMUNICATIONS LINES (UNDERGROUND)
- EU = ELECTRICITY LINE (UNDERGROUND)
- G = GAS LINE
- S = SEWER LINE (UNDERGROUND)
- SW = STORMWATER LINE
- T = TELSTRA LINES
- U = UNKNOWN SERVICE (UNDERGROUND)
- W = WATER DISTRIBUTION LINE (UNDERGROUND)

NOTES

- THE PURPOSE OF THIS PLAN IS FOR DESIGN ONLY. CURRENT PLANS ISSUED BY SERVICE PROVIDERS THROUGH "DIAL BEFORE YOU DIG" ARE STILL REQUIRED. CONTRACTORS AND SUBCONTRACTORS WILL NEED TO EXERCISE THEIR OWN "DUTY OF CARE" AND SHOULD MAKE THEIR OWN DIAL BEFORE YOU DIG ENQUIRY BEFORE EXCAVATION/CONSTRUCTION. YOU MUST ENSURE "DIAL BEFORE YOU DIG" ARE CURRENT AS THEY HAVE VARYING EXPIRATION DATES, AND MAY REQUIRE RE-ISSUE OTHERWISE THE INFORMATION ON THIS PLAN MAY NO LONGER BE CURRENT.

- WARNING: UNKNOWN SERVICES MAY EXIST THAT COULD NOT BE ELECTRONICALLY DETECTED. THE DIAGRAMS OF THE SERVICE PROVIDER MAY NOT DEPICT ALL ASSETS WITHIN THEIR NETWORK AND SERVICE PROVIDERS MAY SHARE CONDUITS AND /OR TRENCHES AT THIS LOCATION.

- WARNING: SINGLE MARKED LINES MAY REPRESENT MULTIPLE CONDUITS, PIPES END/OR CABLES AT THIS LOCATION. THE RECORDING OF DEPTHS AND POSITION OF UTILITIES CANNOT BE GUARANTEED AS CORRECT. WE RECOMMEND NON DESTRUCTIVE DIGGING/POTHOLING TO EXPOSE SERVICES FOR ACCURATE IDENTIFICATION AND DEPTH.

CAUTION: SURESEARCH HAVE SURVEYED WITHIN THE BOUNDARY OF THE SITE AND DURKIN HAVE SURVEYED THE ROAD RESERVE SURROUNDING THE SITE AND MARKED OUT EXISTING SERVICES IN THE AREA SPECIFIED BY THE CLIENT. THESE SERVICE LINES HAVE BEEN LOCATED BY ABOVE GROUND SERVICE TRACING METHODS AND HAVE NOT BEEN SIGHTED. CMS SURVEYORS HAVE THEN LOCATED THE LINE MARKED BY SURESEARCH. THE LOCATION OF THESE MARKED SERVICES ARE APPROXIMATE ONLY. THE POSITION OF THE MARKED SERVICE LINES HAS BEEN MADE WITH REFERENCE TO THE RELEVANT SERVICE AUTHORITY DIAGRAMS. ALL SERVICES MAY NOT HAVE BEEN SHOWN AND UTILITY DESCRIPTIONS HAVE BEEN TAKEN FROM UTILITY PROVIDED DIAGRAMS WHERE AVAILABLE. WE RECOMMEND NON DESTRUCTIVE DIGGING/POTHOLING TO EXPOSE MARKED SERVICES TO IDENTIFY AND SHOW EXACT DEPTH AND LOCATION OF SERVICE LINES PRIOR TO EARTHWORKS COMMENCING. UTILITIES PLOTTED ON THE PLAN THAT TERMINATE IN THE SPECIFIED AREA MAY GO TO FEATURES THAT HAVE NOT BEEN SHOWN ON THE BACKGROUND DETAIL SURVEY PROVIDED BY CLIENT. THE RISK REMAINS WITH THE CLIENT AND/OR SUB CONTRACTOR AND THEIR RESPONSIBILITY TO EXERCISE CAUTION AT ALL TIMES.

SUBSURFACE UTILITY INFORMATION

SUBSURFACE UTILITY INFORMATION (SUI) AS5488 CLASSIFICATION
QUALITY LABELLING UTILITY INFORMATION BY A CLASSIFICATION CODE ALLOWS THE USER OF THIS INFORMATION TO UNDERSTAND CLEARLY HOW THE INFORMATION WAS COLLECTED AND THEN PLACE AN APPROPRIATE AMOUNT OF RELIANCE ON IT. PROJECT RISKS RELATED TO UNDERGROUND UTILITIES CAN THEN BE PROPERLY MANAGED.
QUALITY A:
INFORMATION IS THE HIGHEST POSSIBLE LEVEL OF ACCURACY AND IS OBTAINED EXPOSING THE UNDERGROUND UTILITY USING A NON-DESTRUCTIVE EXCAVATION (POT HOLING) TECHNIQUE. THE VERTICAL INFORMATION FOR THIS LOCATING METHOD IS TO THE TOP OF THE SHALLOWEST PART OF THE LOCATED SERVICE. THE 3D LOCATION IS RECORDED AS AN X, Y, Z COORDINATE. EXPECTED HORIZONTAL AND VERTICAL ACCURACY IS +/-50MM.
QUALITY B:
INFORMATION IS COLLECTED BY DESIGNATING THE HORIZONTAL AND VERTICAL LOCATION OF UNDERGROUND UTILITIES BY USING ELECTROMAGNETIC PIPE AND CABLE LOCATORS, SONDES OR FLEXI TRACE, GROUND PENETRATING RADAR AND ACOUSTIC PULSE EQUIPMENT. THIS IS THE MOST COMMON FORM OF UTILITY LOCATING AND ALTHOUGH AN X, Y, AND Z AXIS CAN BE ESTABLISHED IT IS NOT ALWAYS ENTIRELY ACCURATE DUE TO DIFFERING ELECTROMAGNETIC FIELDS, SOIL CONDITIONS AND MULTIPLE BANKS OF CABLES AFFECTING THE LOCATING SIGNAL. EXPECTED HORIZONTAL ACCURACY IS +/-300MM. VERTICAL ACCURACY +/-500MM.
QUALITY C:
INFORMATION IS COLLECTED BY CORRELATING THE SURVEY OF VISIBLE UTILITY SURFACE FEATURES SUCH AS MARKER PLATES OR WATER HYDRANTS AND ACQUIRED DIAL BEFORE YOU DIG PLANS TO DRAW A STRING WHICH SHOWS THE APPROXIMATE POSITION OF SERVICES. THIS METHOD DOES NOT USUALLY SHOW MULTIPLE BANKS OF CABLES AND DOES NOT ALWAYS SHOW THREE-DIMENSIONAL INFORMATION. EXPECTED HORIZONTAL ACCURACY (SURFACE FEATURES ONLY) IS +/-300MM.
QUALITY D:
INFORMATION IS THE MOST BASIC LEVEL OF UTILITY LOCATIONS USING ONLY INFORMATION BASED ON EXISTING DIAL BEFORE YOU DIG PLANS OR OTHER RECORDS AND BY MEASURING BOUNDARY OFFSETS ETC. THIS METHOD OF UTILITY LOCATION SHOULD ALWAYS BE TREATED AS AN INDICATION OF THE PRESENCE OF A SERVICE ONLY AND SHOULD NOT BE USED FOR DESIGN. TOLERANCE DOES NOT APPLY TO AN INDICATIVE LOCATION THAT IS ATTRIBUTED TO QUALITY LEVEL D.
DETECTION DISCLAIMER:
ELECTROMAGNETIC LOCATING TECHNIQUES AS WELL AS GROUND PENETRATING RADAR HAVE BEEN UTILISED IN THE LOCATION OF UNDERGROUND SERVICES. THESE RESULTS ARE NOT INFALLIBLE AND A NON-DESTRUCTIVE DIG PROCESS SHOULD BE CARRIED OUT TO CONFIRM SERVICE IDENTIFICATION, POSITIONS AND PARTICULARLY HEIGHTS, WHERE THESE ARE CRITICAL. ALTHOUGH ALL REASONABLE EFFORT HAS BEEN MADE IN LOCATING AND MAPPING THE UNDERGROUND SERVICES, THE COMPLETE EXTENTS OF THE THIS UTILITY SURVEY INFORMATION CANNOT BE GUARANTEED.
THIRD PARTY INFORMATION DISCLAIMER:
ALL FEATURES SHOWN IN GREY HAVE BEEN TAKEN FROM EXTERNAL SOURCES AND AS SUCH UTILITY MAPPING CANNOT VERIFY THE ACCURACY OF THIS INFORMATION. CONTACTING THE RELEVANT PROVIDER IS RECOMMENDED FOR THE LATEST INFORMATION.
CADASTRAL BOUNDARY DISCLAIMER:
CADASTRAL BOUNDARY HAS BEEN SUPPLIED BY A THIRD PARTY AND IS INDICATIVE ONLY. UTILITY MAPPING ACCEPTS NO RESPONSIBILITY FOR THE ACCURACY OF THIS INFORMATION.

FOR EXTRA NOTES SEE SHEET 1
& FOR TREE TABLE SEE SHEET 2

0 1 2 3 4 5 6 7 8 9 10
SCALE 1:100

Job No 15511972

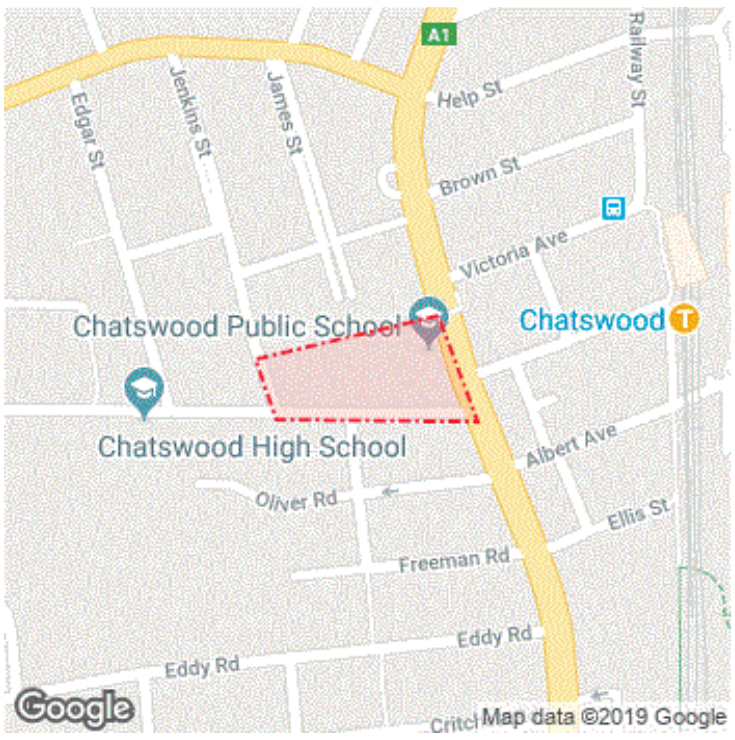
Pho! " #$%&&&
www.1100.com.au

Caller Details

Contact:	Mrs Durkin Construction Office	**Caller Id:**	1738685	**Phone:**	0297120308
Company:	Durkin Construction	**Mobile:**	Not Supplied	**Fax:**	0297120308
Address:	39 Waterview St Five Dock NSW 2046	**Email:**	durkindbyd@gmail.com		

Dig Site and Enquiry Details

WARNING:$'h"$( )*$+", - $!,.$/01*,).1$2"$,3)20!$ 4$2"$*5 * 1"/$/06$102"$)!/$/ "1$! 2$/01*,).$)!.$)11"2$ - !"517$*0"$ 5$3)+,"18$'h"$)5")$ h06h,06t"/$h)1$+""!$91"/$!,.$2 $0"!204$2h"$*)5280*)20!6$)11"2$- !"51:$wh $- 0,$1'! /$0 4 5( )20!$2 $. 9$/05"32,.8$



User Reference: Not Supplied
Working on Behalf of: Private

Enquiry Date:	**Start Date:**	**End Date:**
02/01/2019	31/01/2019	31/01/2019

Address:
5 Centennial Ave
Chatswood NSW 2067

Job Purpose: Excavation
Onsite Activity: Mechanical Excavation
Location of Workplace: Both
Location in Road: CarriageWay,Footpath,Nature Strip

;$Che3=$2h"$ 3)20!$ 4$th"$/06$102"$0$3 55"328$>4$ 2$19+(02$$!"-$" !?9058
;>4th"$13 *"$ 4$ 5=1$sh)! 6":$ 5$*,)!$@,/02 $/)2"1$"A*05":$5"19+(02$. 95$"!?905.8
;$B $CD' $/06$-02h 92$*,)!18$E)4"$"A3)@20!$01$. 95$51*! 10+02.8$4$ 9$/ $! 2$$$$$$$$$$$$$$$$$$$$
9!/" 512!/$2he$*,)!1$ 5$h - $2 $*5 3""/$1)4",.:$*,")1"$3 !2)32$2h"$5","@)! 2$)11"2$- !"518

Notes/Description of Works:
Can I have a plans in pdf or in dwf if possible

Your Responsibilities and Duty of Care

;>4*,)!1$)5"$! 2$5"3"0@"/$-02h0 F- 5=06 $/).1:$3! 2)32$2he$)11"2$- !" 51$/05"32,.G?9 2"$2h"05$E"?9"! 3"$C8
;$HIJ HKE$*"54 5($)! $! 10"$0 1*"320!$4 r th"$*51"! 3"$ 4$)11218$Eho9,/$ 9$5"?905$)!$!10"$, 3)20!:$3 ! 2)32$th"$)11"2$- !"51$/05"32,.8$$$$$$$$Ā1"$
5"("(+ "5:$*,)!1$/ $! 2$/"2)0,$2"$"A)32$, 3)20!$ 4$)11"218
;$Ā 2h ,"$2 $"12)+,0sh$2he$"A)32$, 3)20!$ 4$),,$9!/ "565 9!/$)11"219$106 $)$h)! /$sh @",:$+"4 5"$9106 h")@.$( )3hi!"5.8
;$L!195"$. 9 adh"5"$2 $)!. $E2)2"$"601,)20@"$5?905"("!21$56)5/06 $B92$ 4$<)5"$)! /$1)4"$/0660 6$5?905"("!218
;>4. 9$/)()6 "$)!$9!/ "565 9!/ $)11"2$. 9MNE')/ @01"$2he)11"2$- !"5$(("/0)2",.8
;$O.$9106 $2hi1$1"5@30:$. 9$)65""2Ā50@3.$Ā ,03. $)!/ $2he$25(1$)!/$/013,)0("51$1"2$ 92$)2$**www.1100.com.au**
;$**For more information on safe excavation practices, visit www.1100.com.au**

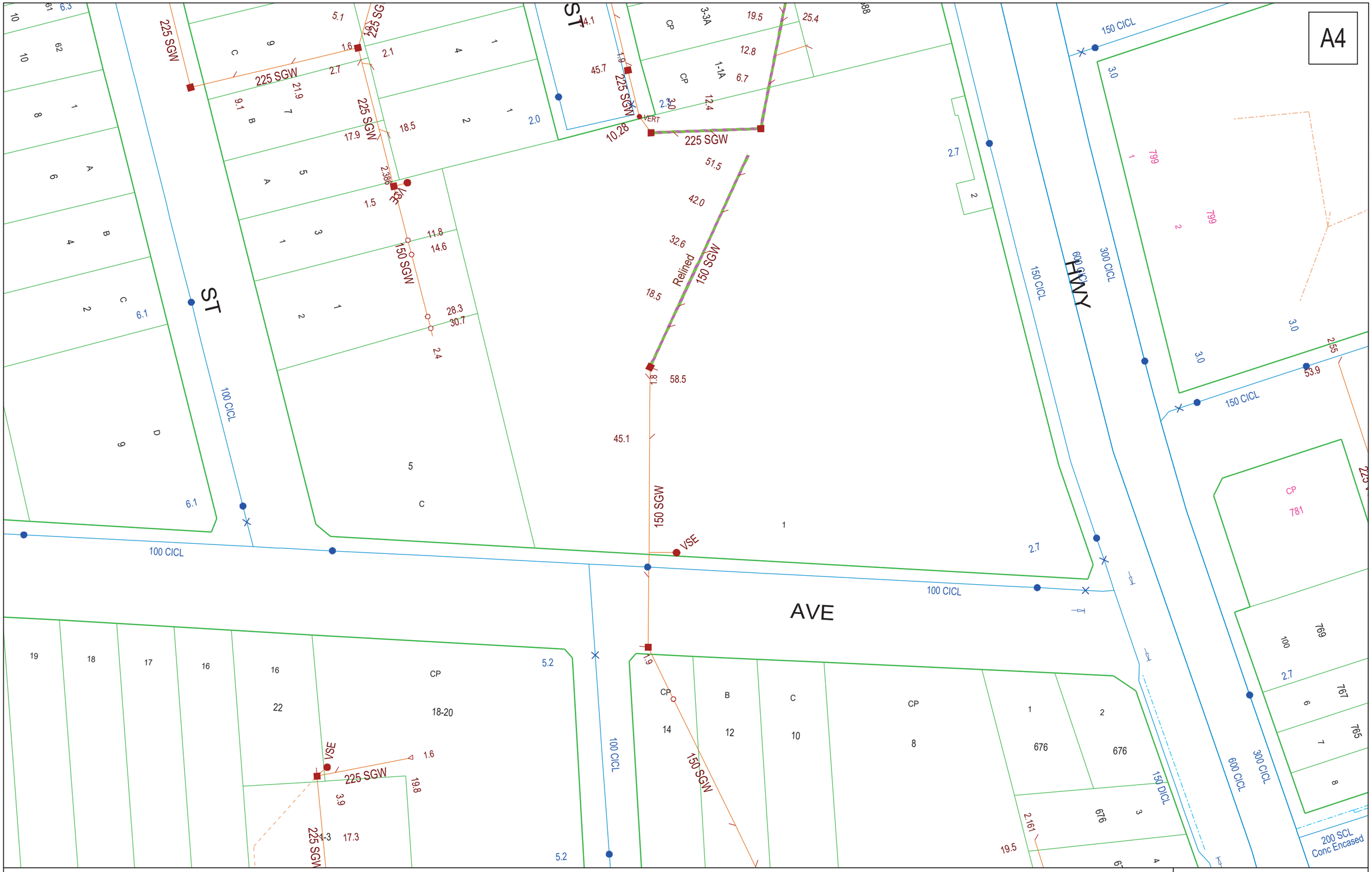
Asset Owner Details

' h"$)11"21$ - !"51$012"/$+", - $h)@"$+"! $5?9"12"/$2$3 ! 2)32$, 9$-02h$0 4 5( )20!$)+9 2$h"05$)11"2$,3)20!1$-0h0 F- 5=06$/).18
H//020!),$20(" $sh 9,/$+"$),, -" /$4 5$!4 5()20 !$019"/$+.$* 128$2$01$**your responsibility**$2$0/"! 204 $2h"$*5"1"! 3"$ 4$)!. $9!/"565 9!/$)11"21$0 $)!/$
)5 9!/$. 95$*5 * 1"/$/06$ 102"8$Ā")1"$+"$)-)5":$2h)2$! 2$),,$)11"2$ - !"51$)5"$ 5601 2"5"/$- 02h$2h"$ B0,$O"4 5"$ K9$B06$ 1"5@3":$ 1 $02$01$**your**
responsibility$2$0/"! 204 $)!/ $3! 2)32$)!. $)11"2$ - !"51$! 2$012"/$h"5"$/05"32,8
PP$H11"2$ -! "51$h06h,0gh2"/$+.$)12"501=1$PP$5"?905"$th)2$, 9 $@109$he05$440"1$2 $3 ,,"32$*,)!18
Q$$H11"2$ -! "5s h0gh,06h2"/$- 0h$)$h)1h 5"?905"$th)2$. 9$3),,$2he($2 $/0139 11$. 9 5$"!?905. $ 5$2$ +2)0 $*,)!18$

Seq. No.	Authority Name	Phone	Status
78815767	AARNet Pty Ltd, Nsw	1300275662	NOTIFIED
78815762	Ausgrid	0249510899	NOTIFIED
78815765	Jemena Gas North	1300880906	NOTIFIED
78815768	NBN Co, NswAct	1800626762	NOTIFIED
78815760	Nextgen, NCC - NSW	1800032532	NOTIFIED
78815764	Optus and/or Uecomm, Nsw	1800505777	NOTIFIED
78815761	PIPE Networks, Nsw	1800201100	NOTIFIED
78815758	Roads and Maritime Services Not received	0288370285	NOTIFIED
78815770	Sydney Metro	0410509577	NOTIFIED
78815766	Sydney Water	132092	NOTIFIED
78815763	Telstra NSW, Central	1800653935	NOTIFIED
78815759	Verizon Business (Nsw)	0294345000	NOTIFIED
78815769	Vocus Communications	0892446114	NOTIFIED
78815757	Willoughby City Council	0297771000	NOTIFIED

No Tram Track

Lodge Your Free Enquiry Online – 24 Hours a Day, Seven Days a Week



DBYD Address:
5 Centennial Ave
Chatswood NSW
2067

DBYD Job No: 15511972

DBYD Sequence No: 78815766

Copyright Reserved Sydney Water 2019

No warranty is given that the information shown is complete or accurate.

SYDNEY WATER CORPORATION

Scale: 1:1000

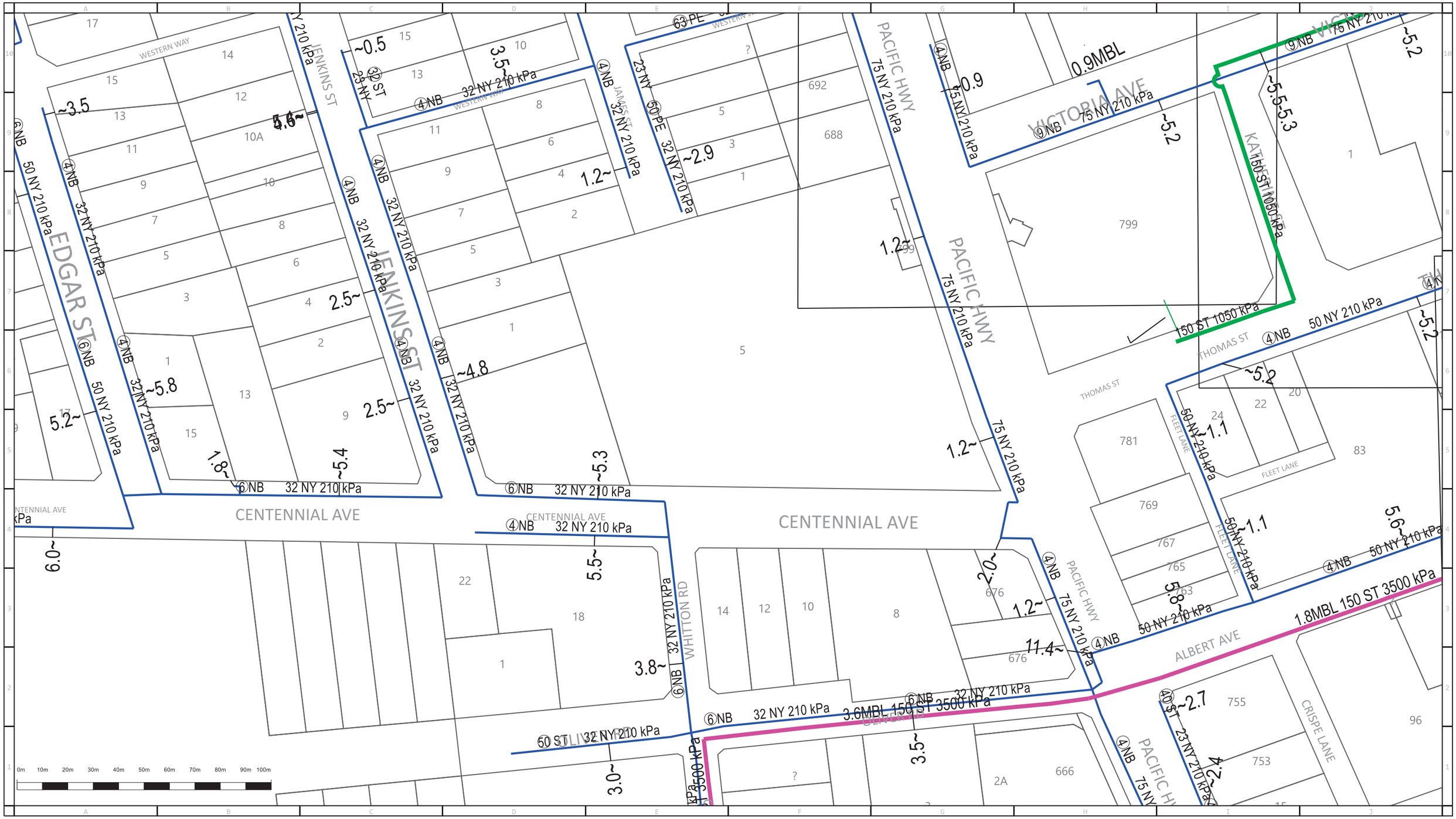
Date of Production: 02/01/2019

Plan 1 of 1

N

0m 5m 10m 15m 20m

DBYD Authority: Jemena Gas Networks (NSW) **DBYD Location:** 5 Centennial Ave Chatswood NSW, 2067



Jemena
ABN 87 003 004 322

Main	In Service	Proposed
Unknown Pressure		
Distribution - 2 kPa		
Distribution - 7 kPa		
Distribution - 30 kPa		
Distribution - 100 kPa		

Main	In Service	Proposed
Distribution - 210 kPa		
Distribution - 300 kPa		
Distribution - 400 kPa		

High Pressure Main & Pipeline	In Service	Proposed
Secondary - 1050 kPa		
Secondary Service		
Primary - 3500 kPa		
JGN Trunk - 7000 kPa		
Transmission		

Fittings, Valves & Regulators: Siphon; Valve; Distance in metres of Main from Boundary Line ~ 1.5; MBK = Metres Back of Kerb; MFL = Metres from Fence Line; Regulator Set; Regulator Station; Automatic Line Break Valve

N W E S

Scale: 1:2000

Issue Date: 02/01/2019
DBYD Seq No: 78815765
DBYD Job No: 15511972

WARNING: This is a representation of Jemena Gas Networks underground assets only and may not indicate all assets in the area. It must not be used for the purpose of exact asset location in order to undertake any type of excavation. This plan is diagramatic only, and distances scaled from this plan may not be accurate. Please read all conditions and information on the attached information sheet. This extract is subject to those conditions. The information contained on this plan is only valid for 28 days from the date of issue.

GL314 - ET1 3x125 PVC 0.6 --- 0.4 Ref: G6	GL314 - FO1 5x125 PVC NR NR Ref: F7
GL314 - FT1 2x125 PVC NA --- 0.6-0.7 Ref: F7	GL314 - FU1 1x125 PVC NA --- 0.7 Ref: E7
GL314 - FV1 2x125 PVC NA --- 0.6-0.7 Ref: E7	GL314 - FW1 8x125 PVC 0.1-0.9 --- 0.5 Ref: F7
GL314 - FX1 2x125 PVC 0.0 --- 0.5 Ref: F7	GL314 - FZ1 8x125 PVC 0.1-0.9 --- 0.5 Ref: F7

JOINT DETAIL REPORT

No.	Size	RCV	Joint Location
Map: GL314			
93	1382-14	99.9999.99	INSIDE PIT 5
94	2126-69	99.9999.99	INSIDE PIT 5
167		99.9999.99	INSIDE PIT 5
168		99.9999.99	IN PIT 5
169		99.9999.99	INSIDE PIT 5
272	BN142-027		In pit
273	BN142-027		PI GL1322!
419	LN14-6210	/5.70	6.6 S OF SE CNR OF VICTORIA AVE & PACIFIC HWY 4.5 W OF BL

WARNING

Ausgrid's plans show the position of assets at the time of installation and may not account for subsequent changes to road alignments, fences or buildings. The plans show no more than the presence or absence of Ausgrid assets in the street.
Persons working near electricity networks must exercise care and will be held responsible for any damage caused.
You must excavate by hand or use vacuum excavation to establish the location of Ausgrid underground cables and associated assets.
Underground: Working near a cable may result in electric shock even if no contact is made. Any work in the vicinity of any cable should only be performed when work practices are conducted in accordance with the recommendations included in WorkCover Code of Practice for Excavation and WorkCover Guide for Work near Underground Assets
as well as recommendations of Ausgrid's Network Standard NS156.
Overhead: Do not excavate near poles or towers until the stability of the foundation has been assessed by Ausgrid. Cables or earth conductors may be present close to substations, poles or towers.
Workers must maintain safe approach distances and follow applicable WorkCover Codes of Practice.
NOTE: 1. You must keep Ausgrid plans on site during excavation works. If the people actually performing the excavation works do not know how to read and interpret Ausgrid's plans, then the work must be directed by a person who knows how to read and interpret the plans. 2. This information includes data from the NSW Digital Cadastral Database by Land and Property Information (c) 2016, used under Creative Commons Attribution 3.0 Version 3.0.

GL31443	GL31444	GL32333	BSG GRID
GL31221	GL33222	GL34111	
GL33223	GL33224	GL34113	
22C9	22D9	23B9	GRID
22C8	22D8	23B8	
22C7	22D7	23B7	

GL31444GMLA0
Distribution - 78815762
INFORMATION ON THIS PLAN ONLY VALID FOR 30 DAYS FROM ISSUE DATE
2 Jan 2019
Page 1 of 1
1:251
0 — 15 metres
N

Ausgrid

A0 MOCS_std_plot

GL332 - AB1

5x125 CF

NA

0.6

Ref: D10

GL332 - EE1

1x150 PVC

NA

0.6

Ref: D10

GL332 - EF1

4x125 PVC

NA

0.6

Ref: D10

GL332 - EH1

2x150 PVC

1x50 PVC

0.7

0.5-0.6

Ref: D9

GL332 - EJ1

6 x 125 PVC

0.9 - 1.2

0.6

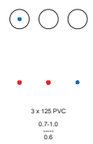
Ref: C10

GL33221
EDGAR ST
KINS ST
CENTENNIAL AVE
OLIVER RD
1/8
1
2
3
9
13
15
17
18-20
20
22
24-58
EH1
AB1
EF1
EJ1
EE1
20B
PL 0.0
BEND 1.9
(0.8COV) EOP 2.7
RL 3.4
(0.8COV) EOP 3.5
(0.8COV) EOP 3.5
(0.8COV) EOP 3.5

GL332 - AC1

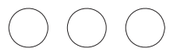
Ref: D3

GL332 - AD1



Ref: C4

GL332 - AF1



Ref: A7

GL332 - AG1

Ref: A8

GL332 - AJ1

Ref: B8

GL332 - AM1

Ref: A7

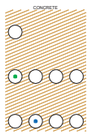
GL332 - AU1

Ref: B7

GL332 - AV1

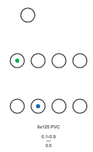
Ref: C7

GL332 - EK1



Ref: B8

GL332 - EL1

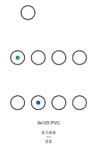


Ref: A8

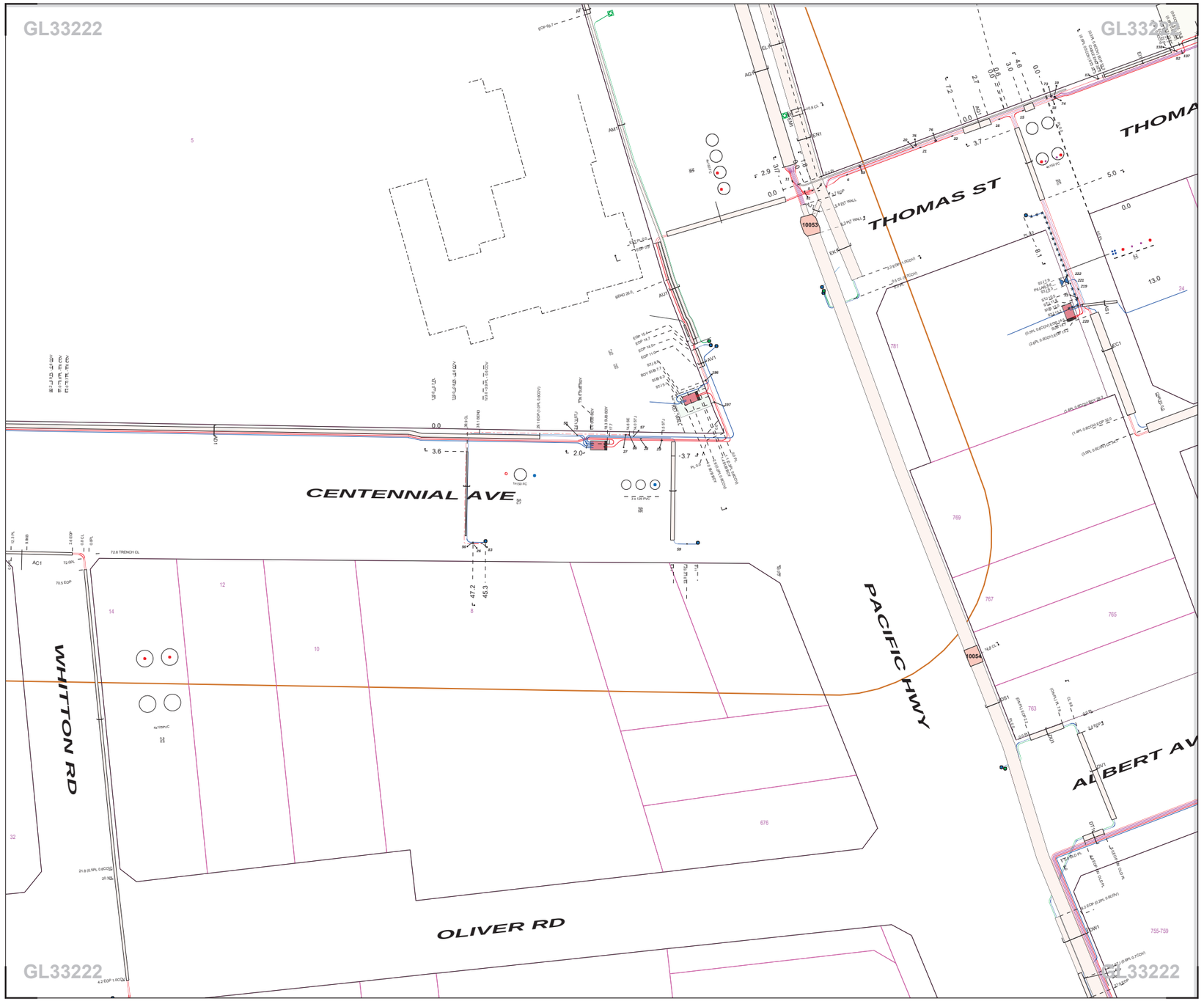
GL332 - EM1

Ref: A8

GL332 - EN1



Ref: B8

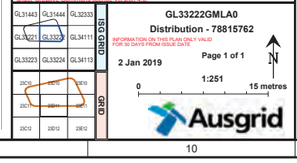


JOINT DETAIL REPORT

Map	No.	Sh/Rs	RiCer	Joint Location
Map:	GL332			
	3	2151-52	0.710:71	3.0 E OF PACIFIC HWY OLD PL
	4	2151-65	1.190:71	3.0 E OF PACIFIC HWY OLD PL
	5	2048-67	0.020:64	0.0 E OF PACIFIC HWY OLD PL
	6	2048-67	0.030:53	6.6 E OF PACIFIC HWY OLD PL
	7	9N76-02		Pit GL10053
	8	9N76-02		Pit GL10053
	9	9N76-02		Pit GL10053
	10	9N76-02		Pit GL10053
	11	2048-67	1.930:61	0.8 N OF THOMAS ST NPL
	26	316-40	2.00/	
	27	316-51	0.840:61	15.2 W OF PACIFIC HWY WPL
	28			
	29	9N76-03	0.500:51	8.5 M W PACIFIC HWY PL
	56	316-40	2.00/	
	57	9N76-01		14.15m west of PACIFIC HWY WPL
	58	9N75-01	/0.55	2 M W BUB BDY
	59	9N72-38	3.000:60	15m W OF PACIFIC HWY WPL & 3m of CENTENNIAL AVE PL
	69	2120-4	0.410:41	10.7 M OF PACIFIC HWY OLD PL
	70	22U-46		Pit GL10053
	71	9A4-73		Pit GL10053
	72	9A4-73		Pit GL10053
	81	CH29-07	0.0/-1/	4.0 M OF PACIFIC HWY NEW PL
	83	1040-79	3.100:20	
	86		0.300:46	
	126			Pit GL10053
	196	LN11-1384	0.600:60	8.8 MW OF CENTENNIAL AVE N PL
	197	LN11-1384	0.600:60	5.1 NW OF CENTENNIAL AVE N PL

WARNING

Ausgrid's plans show the position of assets at the time of installation and may not account for subsequent changes to road alignments, fences or buildings. The plans show no more than the presence or absence of Ausgrid assets in the street.
Persons working near electricity networks must exercise care and will be held responsible for any damage caused.
You must excavate by hand or use vacuum excavation to establish the location of Ausgrid underground cables and associated assets.
Underground: Working near a cable may result in electric shock even if no contact is made. Any work in the vicinity of any cable should only be performed using safe work methods developed in accordance with the recommendations contained in Ausgrid's Code of Practice for Excavation and WorkCover Guide for Work Near Underground Assets
as well as recommendations of Ausgrid's Network Standard NS156.
Overhead: Do not excavate near poles or towers until the stability of the foundation has been assessed by Ausgrid. Cables or earth conductors may be present close to substations, poles or towers.
Workers must maintain safe approach distances and follow applicable WorkCover Codes of Practice.
NOTE: 1. You must keep Ausgrid plans on site during excavation works. If the people actually performing the excavation works do not know how to read and interpret Ausgrid's plans, then the work must be directed by a person who knows how to read and interpret the plans. 2. This information includes data from the NSW Digital Cadastral Database by Land and Property Information (c) 2016, used under Creative Commons Attribution Version 2.0.



A0 MOCS_std_plot

Cable Plan

For all Telstra DBYD plan enquiries -
email - Telstra.Plans@team.telstra.com
For urgent onsite contact only - ph 1800 653 935 (bus hrs)

TELSTRA CORPORATION LIMITED A.C.N. 051 775 556

Generated On 02/01/2019 13:01:37

Sequence Number: 78815763

CAUTION: Critical Network Route in plot area.
DO NOT PROCEED with any excavation prior to seeking advice from Telstra Plan Services on :
1800 653 935

The above plan must be viewed in conjunction with the Mains Cable Plan on the following page

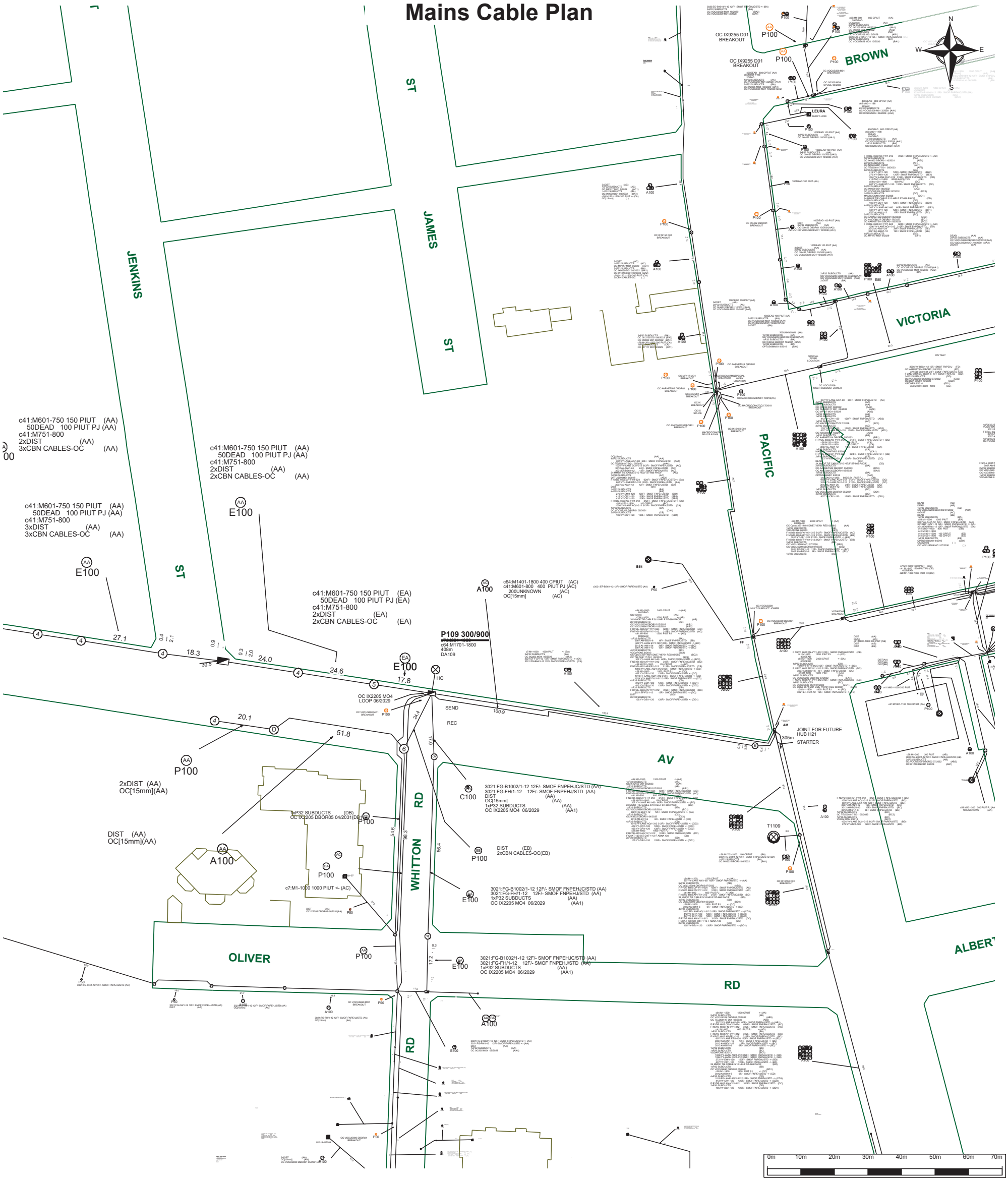
WARNING - Due to the nature of Telstra underground plant and the age of some cables and records, it is impossible to ascertain the precise location of all Telstra plant from Telstra's plans. The accuracy and/or completeness of the information supplied can not be guaranteed as property boundaries, depths and other natural landscape features may change over time, and accordingly the plans are indicative only. Telstra does not warrant or hold out that its plans are accurate and accepts no responsibility for any inaccuracy shown on the plans.

It is your responsibility to locate Telstra's underground plant by careful hand pot-holing prior to any excavation in the vicinity and to exercise due care during that excavation.

Please read and understand the information supplied in the duty of care statement attached with the Telstra plans. TELSTRA WILL SEEK COMPENSATION FOR LOSS CAUSED BY DAMAGE TO ITS PLANT.

Telstra plans and information supplied are valid for 60 days from the date of issue. If this timeframe has elapsed, please reapply for plans.

Mains Cable Plan



For all Telstra DBYD plan enquiries -
email - Telstra.Plans@team.telstra.com
For urgent onsite contact only - ph 1800 653 935 (bus hrs)

TELSTRA CORPORATION LIMITED A.C.N. 051 775 556

Generated On 02/01/2019 13:01:42

Sequence Number: 78815763

CAUTION: Critical Network Route in plot area.
DO NOT PROCEED with any excavation prior to seeking advice from Telstra Plan Services on : 1800 653 935

WARNING - Due to the nature of Telstra underground plant and the age of some cables and records, it is impossible to ascertain the precise location of all Telstra plant from Telstra's plans. The accuracy and/or completeness of the information supplied can not be guaranteed as property boundaries, depths and other natural landscape features may change over time, and accordingly the plans are indicative only. Telstra does not warrant or hold out that its plans are accurate and accepts no responsibility for any inaccuracy shown on the plans.

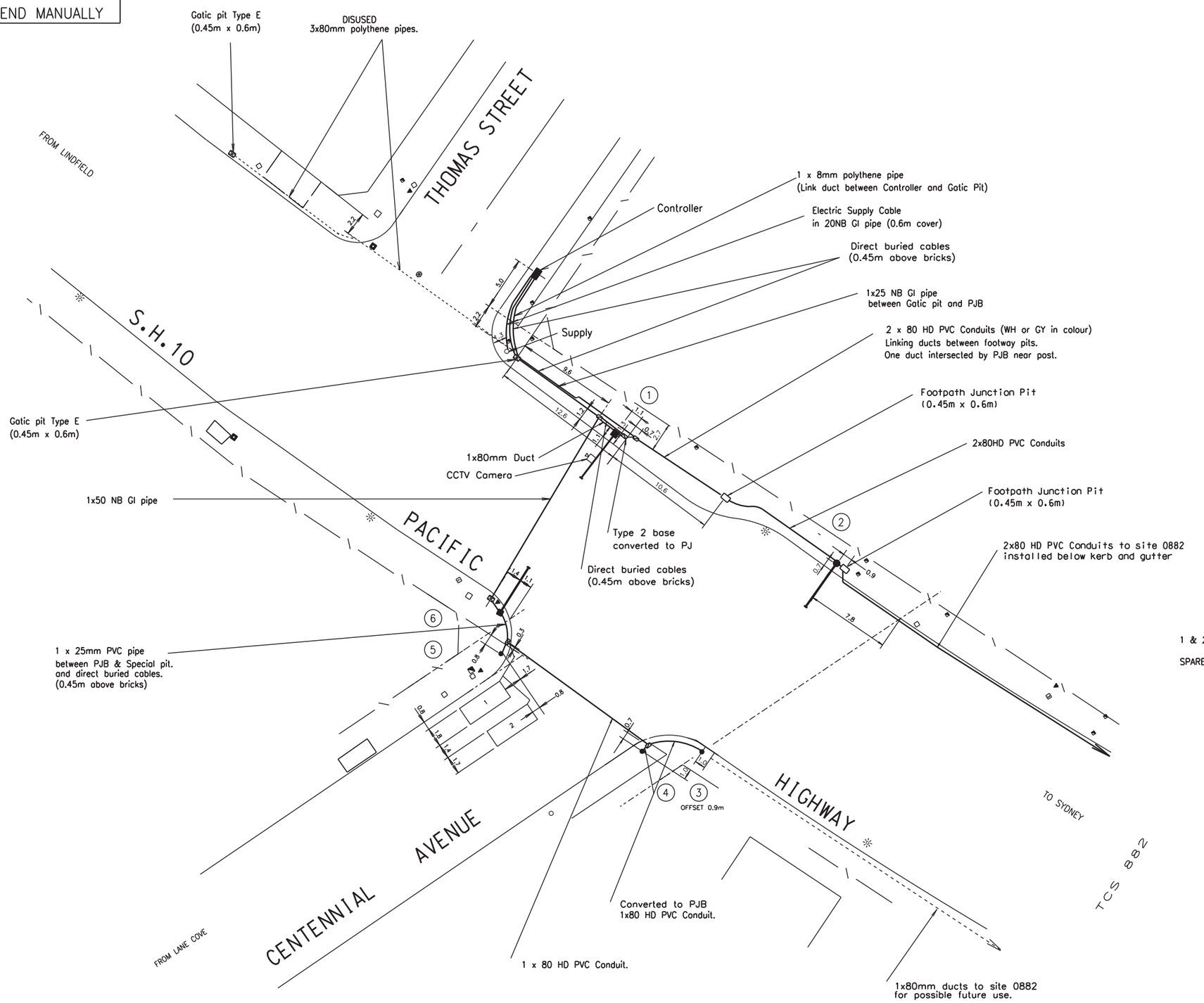
It is your responsibility to locate Telstra's underground plant by careful hand pot-holing prior to any excavation in the vicinity and to exercise due care during that excavation.

Please read and understand the information supplied in the duty of care statement attached with the Telstra plans. TELSTRA WILL SEEK COMPENSATION FOR LOSS CAUSED BY DAMAGE TO ITS PLANT.

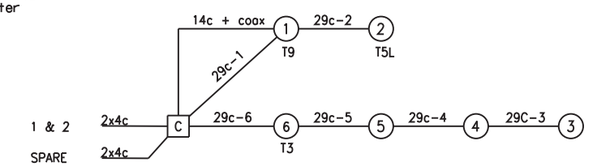
Telstra plans and information supplied are valid for 60 days from the date of issue. If this timeframe has elapsed, please reapply for plans.

DRAWN USING CAD
DO NOT AMEND MANUALLY

VV0892



CABLE INSTALLATION



CABLE LAYOUT

NOTES

1. CABLE COVER: IN ROADWAY 0.75m ABOVE PIPE. IN FOOTWAYS 0.5m ABOVE PIPE UNLESS OTHERWISE STATED.
2. ALL CABLE IN FOOTWAYS ARE INSTALLED IN 1x80 H.D. P.V.C. CONDUIT UNLESS OTHERWISE STATED.

A ORIGINAL ISSUE

B ISSUE at YEN 97/037 17/10/97
PLAN AMENDED TO SUIT WAE
R.W.A. C.L.T.

C ISSUE at SS/339 27/04/2004
POST 1 TYPE 9 WAS TYPE 2
A.C. 16/03/05

D ISSUE at SS/541 17/01/2011
CCTV CAMERA ADDED.
MC IH

REFERENCE PLANS	
Specification	SI/TCS/7
Det. Sched. Exp.	VD018-10
SSG Dis. Seq.	VD018-8
DESIGN LAYOUT	SHEET 9
CABLE CHART	SHEET 12

U.B.D.REF. MAP195 H11
I.S.G. E 316433
CO-ORDS N 1258679

R.W.A.22/11/95
DESIGNED
PASSED
RECOMMENDED

APPROVED
R.C. BIRD
ELECTRICAL DESIGN MANAGER
DATE 22/11/95

ACCEPTED
DATE

ROADS AND TRAFFIC AUTHORITY OF NSW

CITY OF WILLOUGHBY
S.H.10 PACIFIC HIGHWAY
AND
CENTENNIAL AVENUE
CHATSWOOD

DRAWING FILE : VV0892_11D_INS.DGN.
ARCHIVE LOCATION :

DESIGN OFFICE PARRAMATTA:-SYDNEY TECHNICAL SERVICES

SCALE 5 0 5 10

FILE 490 TS 292

SUPERSEDES SHEET 11A

REGN. 0010.490.VV.0892

SHEET 11

ISSUE A B C D

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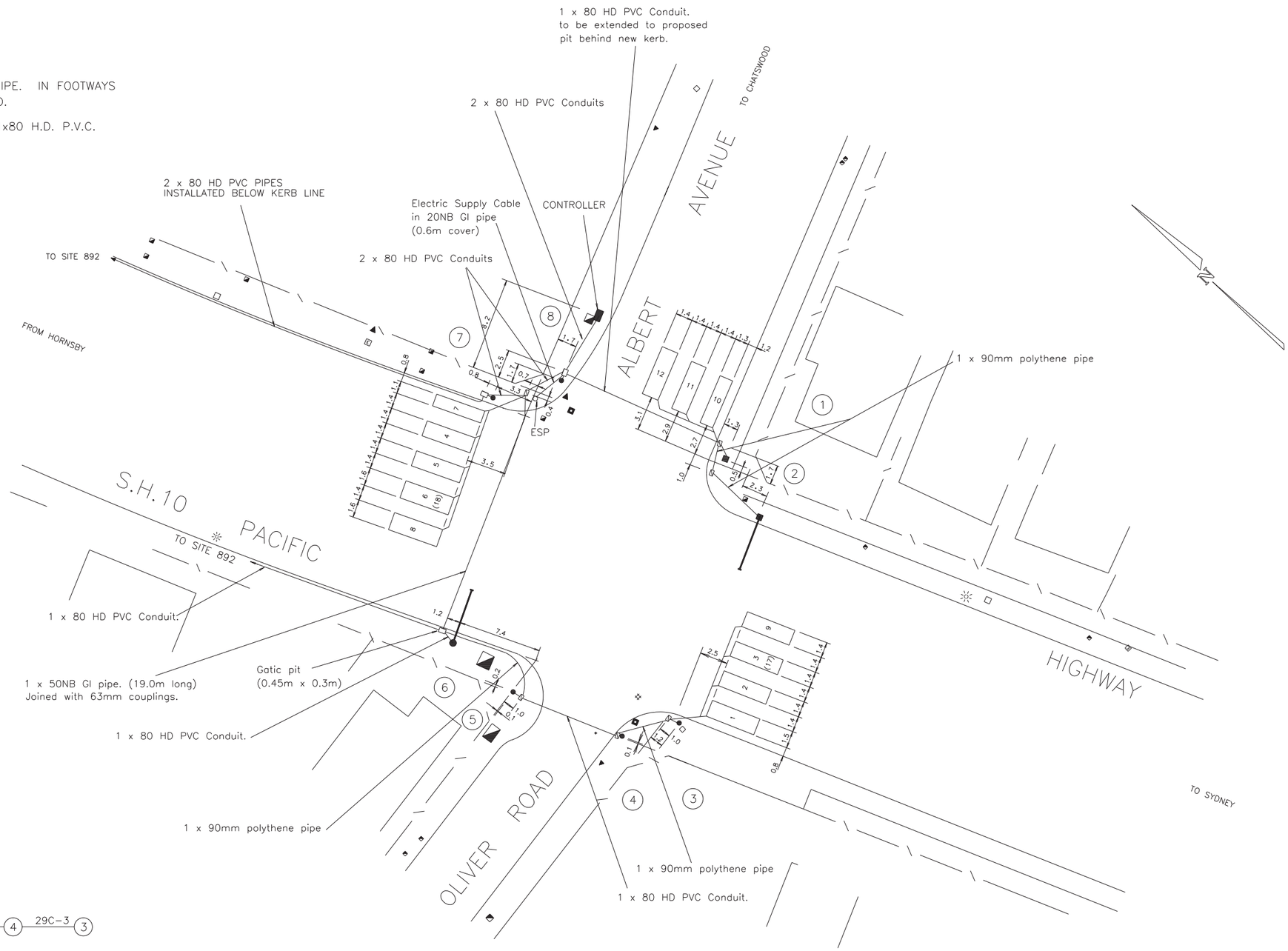
DRAWN USING CAD
DO NOT AMEND MANUALLY

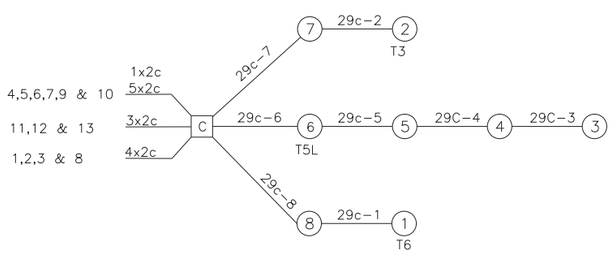
Date in Service .....
Reconstructed: 27/6/93

0010.490.VV.0882

NOTES

1. CABLE COVER: IN ROADWAY 0.75m ABOVE PIPE. IN FOOTWAYS 0.5m ABOVE PIPE UNLESS OTHERWISE STATED.
2. ALL CABLE IN FOOTWAYS ARE INSTALLED IN 1x80 H.D. P.V.C. CONDUIT UNLESS OTHERWISE STATED.





CABLE INSTALLATION

A ORIGINAL ISSUE	B. ISSUE 30/09/97 RDW AMENDED TO SUIT WAE. CLZ	C. ISSUE3 J/L SS 23 DETECTOR NUMBERS ALTERED. B.K 23-06-99 C.Z	A.SON C. L.

REFERENCE PLANS	
Specification	SI/TCS/7
Det. Sched. Exp.	VD018-10
SSG Dis. Seq.	VD018-8
DESIGN LAYOUT	SHEET 9
CABLE CONN	SHEET 8F

U.B.D.REF. MAP195 H11
I.S.G. CO-ORDS E 316465 N 1258614

R.W.A. 24/11/95 DESIGNED
C. L. PASSED
RECOMMENDED

APPROVED
ELECTRICAL DESIGN MANAGER
DATE 24/11/95

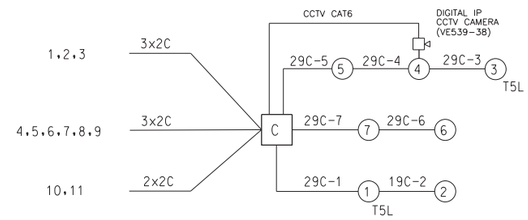
ROADS AND TRAFFIC AUTHORITY OF NSW
CITY OF WILLOUGHBY
S.H.10 PACIFIC HIGHWAY,
ALBERT AVENUE AND
OLIVER ROAD
CHATSWOOD

CADD DRAWING FILE : VV0882_11A_INS.dgn
ARCHIVE LOCATION :
CONSULTANT SERVICES BRANCH
SCALE 5 0 5 10
SHEET 11
FILE 490 TS 148
SUPERSEDES SHEET 10B
ISSUE A B C
REGN. 0010.490.VV.0882

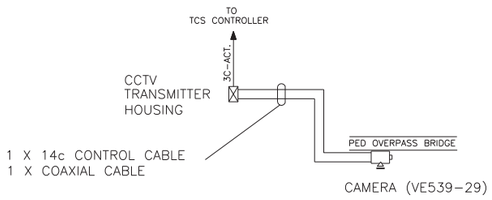
VV0882_11C_INS.dgn 3/11/2008 3:12:04 PM

DRAWN USING CAD
DO NOT AMEND MANUALLY

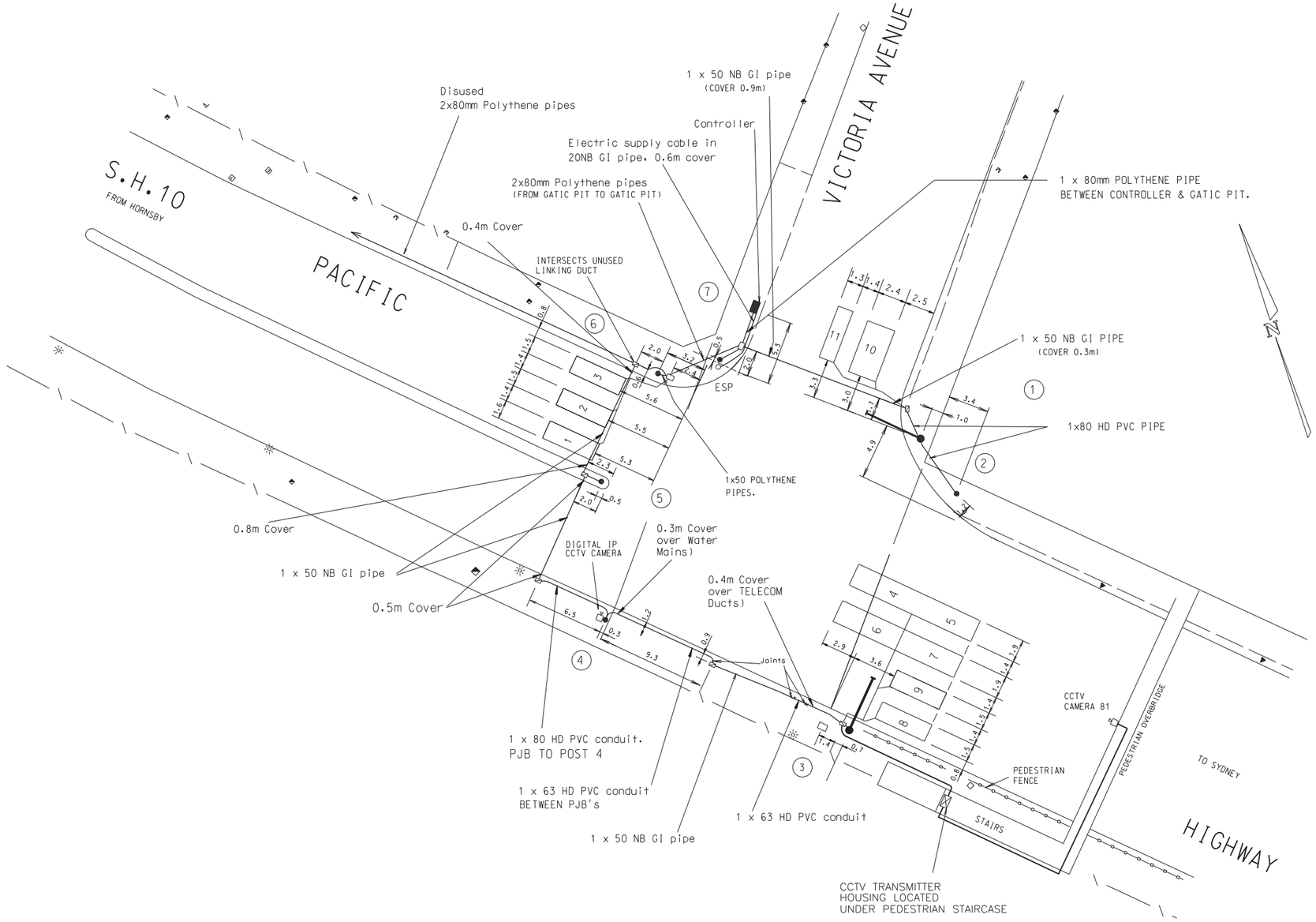
VV.0718-11



CABLE LAYOUT



CCTV CAMERA 81
CABLE LAYOUT



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. CCTV CAMERA 81 MOUNTED ON PEDESTRIAN OVERBRIDGE. A DIGITAL IP CCTV CAMERA IS ALSO MOUNTED ON SIGNAL POST 4 WITH THE CONTROL GEAR IN THE TCS CONTROLLER.

CABLE INSTALLATION

A ORIGINAL ISSUE 16/06/93

B - ISSUE REVISED ORIGINAL POST 4. M.M C.L.Z

C ISSUE RE-CONSTRUCTION WAE LAWSON/MEYER 4/94.

D ISSUE POST 1 CHANGED TO TYPE SS. POSTS 1-2 & 7 RELOCATED. A.SONI 24/01/95 CLZ

E ISSUE PLAN AMENDED TO SUIT W.A.E. R.W.A. 24/09/95 CLZ

F ISSUE CCTV CAMERA INSTALLED. A.SONI 27/04/98 CLZ

G ISSUE - WAE DIGITAL IP CCTV CAMERA FAC'S ADDED. NOTE 3 REVISED. JF/LC 10-05-2018.

REFERENCE PLANS	
Specification	SI/TCS/7
Det. Sched. Exp.	VD018-10
SSG Dis. Seq.	VD018-8
Design layout	VV0718-10
Cable chart	VV0718-12

U.B.D.REF. MAP 41 N7
I.S.G. CO-ORDS E 320163 N 1249490

MICHAEL MAHINTHAN DESIGNED
C.L.ZAMUDIO PASSED
C.L.ZAMUDIO RECOMMENDED

APPROVED
R.C.BIRD
ELECTRICAL DESIGN MANAGER
DATE 21/05/93

ROAD AND TRAFFIC AUTHORITY OF NSW
CITY OF WILLOUGHBY
S.H.10 PACIFIC HIGHWAY
AND
VICTORIA AVENUE
CHATSWOOD

CADD DRAWING FILE : VV0718_11G_INS.dgn
ARCHIVE LOCATION : ELECT

SYDNEY REGION
SCALE 5 0 5 10
FILE 490 TS 152
SUPERSEDES SHEET 2
SHEET 11
REGN. 0010.490.VV.0718

ISSUE A B C D E F G

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1'31%3)%/6/0%/183,1/*%82+%-8%8+8*)%(%64(9/*%1%6%3,-831/@8%1%+%8/)7+0)(6(451%%3))-./ *%2+8%05%88+8%8%( ))(+0;
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OPTUS yes

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www.1100.com.au

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1'31%3)%/6/0%/123,1/*%82+%-8%8+8*)%(%64(9/*%1%6%3,-831/@8%1%+%8/)7+0)(6(451%%3))-./ *%2+8%05%88+8%8%( ))(+0;
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OPTUS yes

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Uecomm

Cable Uecomm Underground

Scale: #INSERT MAP SCALE# Printed On: 02/01/2019

Sequence Number: 78815764
Location: 5 Centennial Ave

Job Location: Line, Point, Area

Undergound Asset: Uecomm

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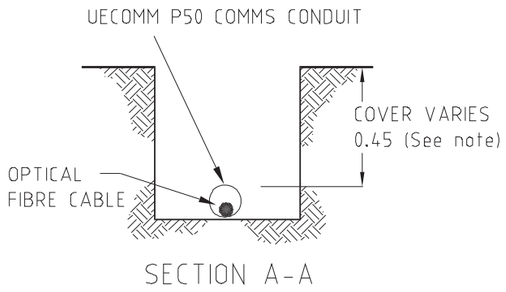
LEGEND

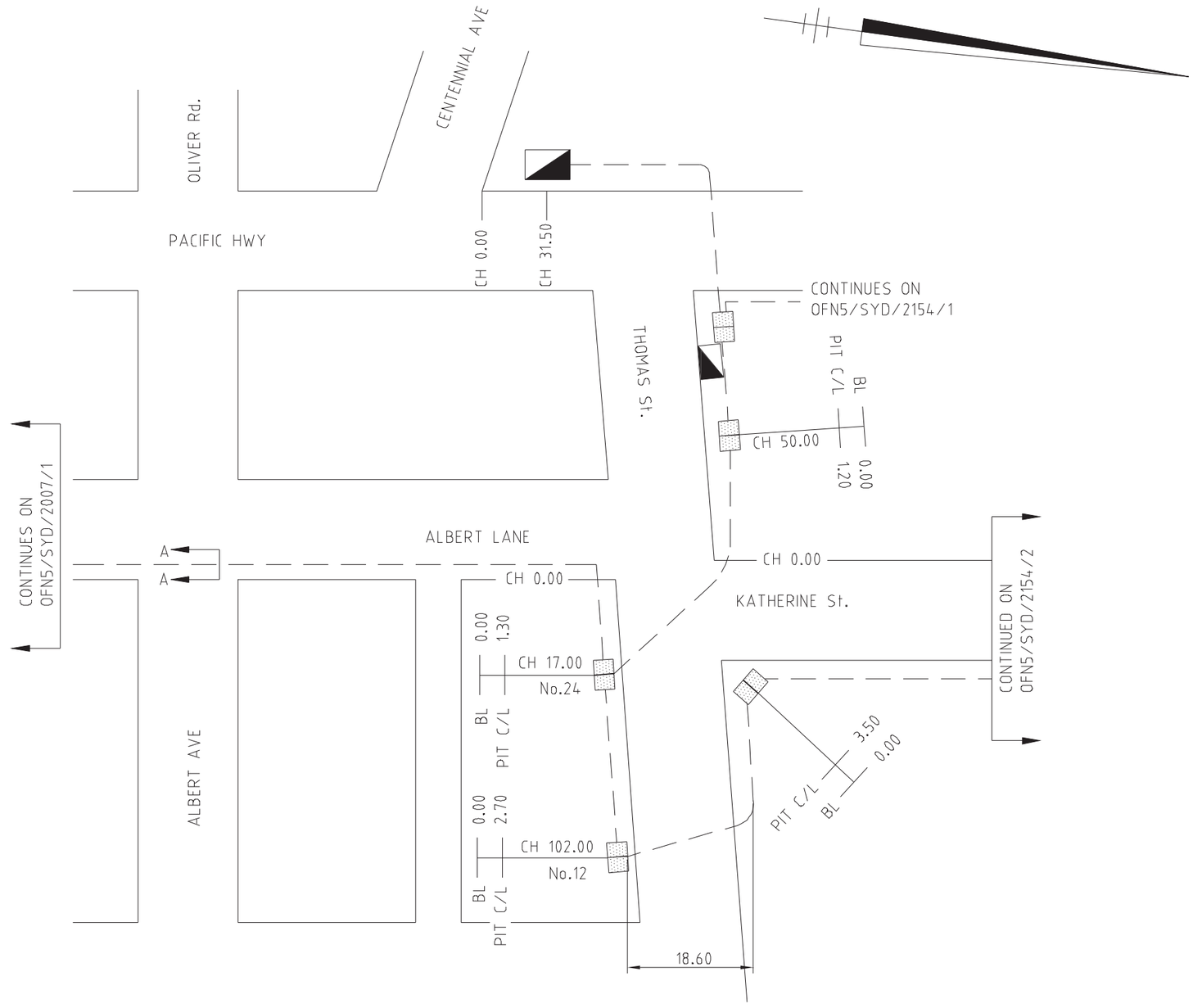
- ELECTRICITY POLE
- FIBRE OPTIC CABLE
- UE P5 PIT
- UE P6 PIT
- B/L - BUILDING LINE
- BOK - BACK OF KERB
- CO - COVER
- FENCE LINE
- TELSTRA MANHOLE
- T - TELSTRA PIT



SECTION A-A

NOTE

Conduit depths quoted are approximate only and may change due to unforseen circumstances. Excavate by hand until conduit depth is determined.



DRAWING NOT TO SCALE

REVISIONS				
23.04.01	B	PIT AT THOMAS & PACIFIC ADDED WITH NEW CABLE	GRQ	
20.02.01	A	TITLE REVISED	GRQ	

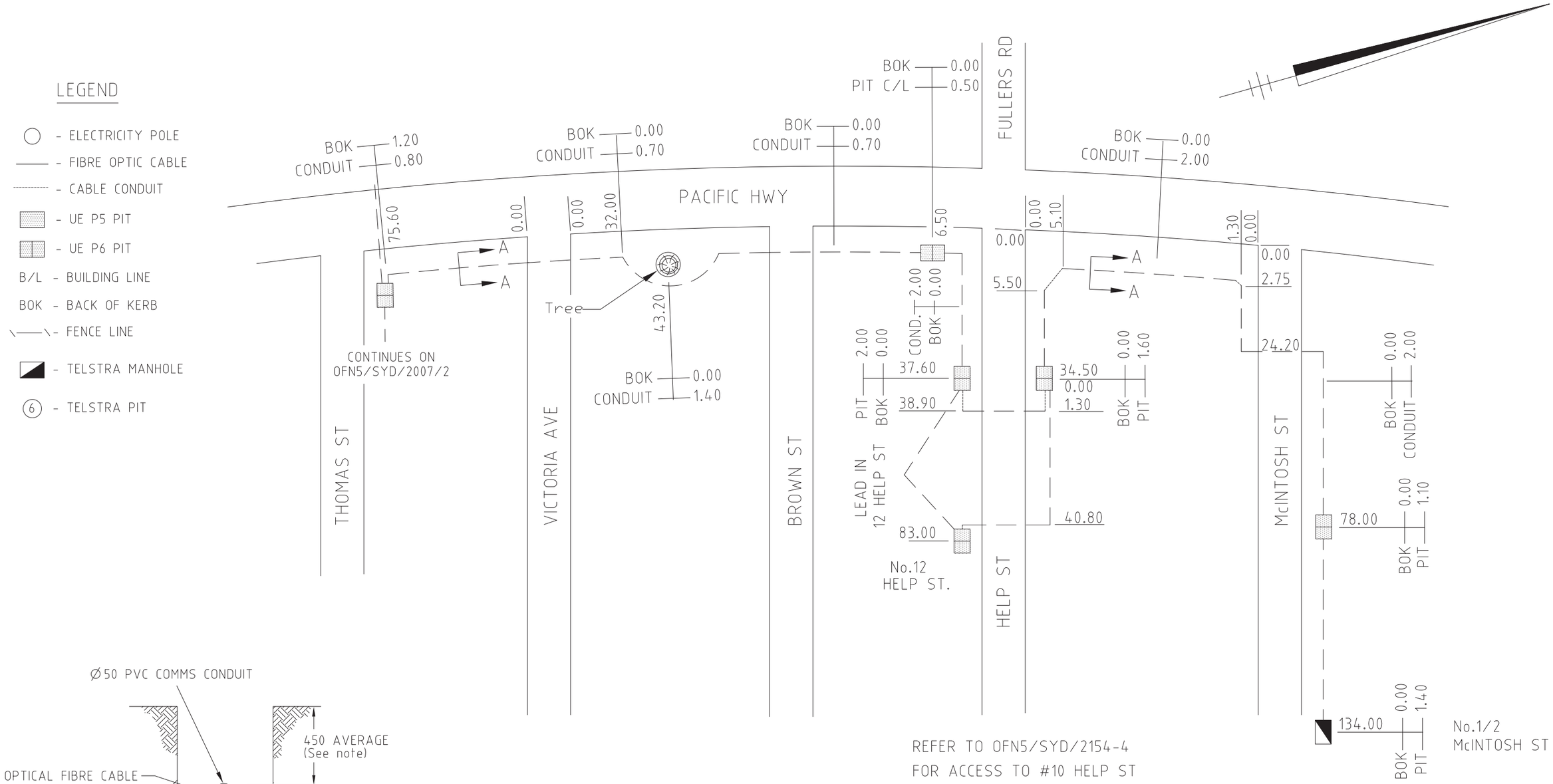
UE COMM
ACN 079 083 195
SYDNEY
Level 3 123 Pitt St
SYDNEY

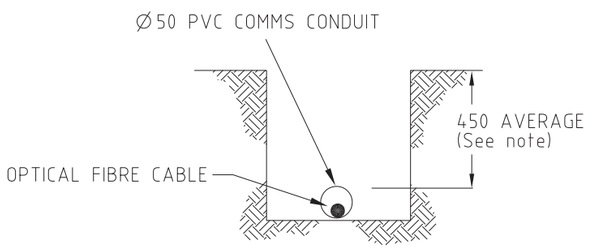
DRAWN S.FENNEY 27·07·00
APPROVED R.BROWNE 1·9·00
UBD REF. 195 H10

DRG No. OFN5/SYD/2007/2 B

UNDERGROUND OPTICAL FIBRE CABLE RUN
ALBERT AVE TO PACIFIC HWY & KATHERINE ST
VIA ALBERT LANE & THOMAS ST
CHATSWOOD - 2067

A3





SECTION A-A

Note:
Conduit depths quoted are approximate only and may change due to unforseen circumstances.
Excavate by hand until conduit depth is determined.

DRAWING NOT TO SCALE

REVISIONS			
21.02.07	B	REFERENCE TO 2154-4	
23.04.01	A	PITS ADDED	GRQ

Uecomm MAKING THE CONNECTION
ACN 079 083 195
SYDNEY
Suite 902, 20 Berry St
North Sydney - 2060

DRAWN G.R.Quin 27.02.01
APPROVED S.Henry 27.02.01
UBD REF. 23-E10,D9,D8,E8,E7

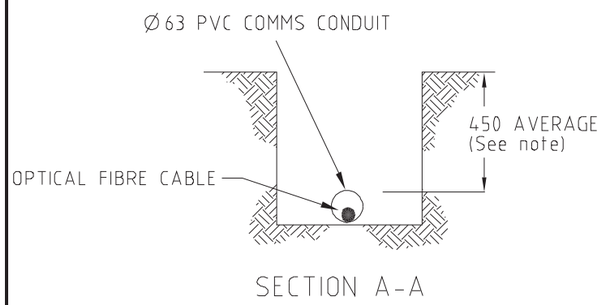
DRG No. OFN5/SYD/2154-1 B

U/G FIBRE OPTICAL CABLE RUN
THOMAS ST TO McINTOSH ST VIA
PACIFIC HIGHWAY & HELP ST
CHATSWOOD NSW 2067

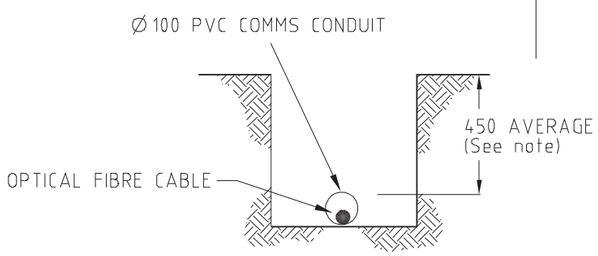
A1

LEGEND

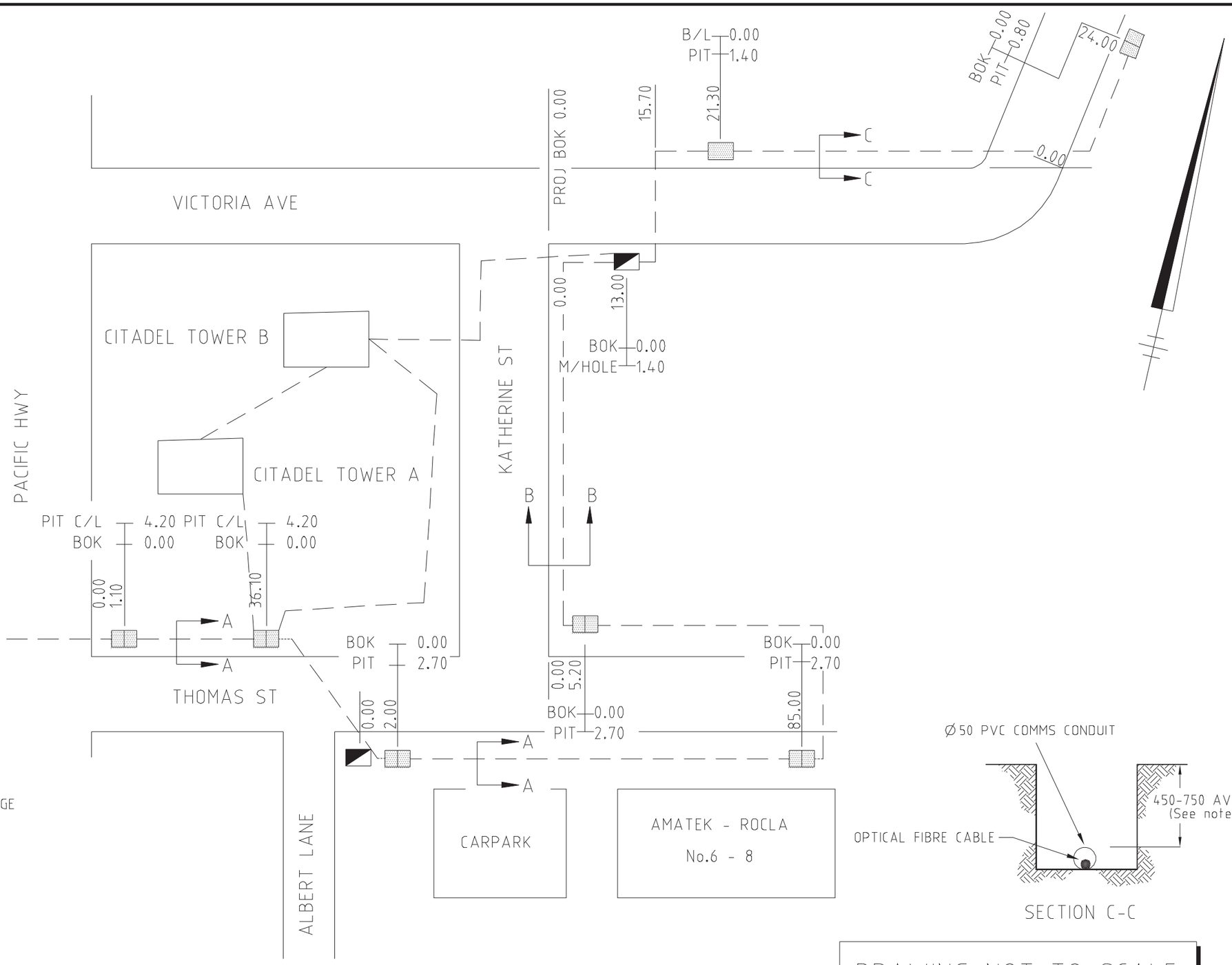
- ELECTRICITY POLE
- FIBRE OPTIC CABLE
- CABLE CONDUIT
- UE P5 PIT
- UE P6 PIT
- B/L - BUILDING LINE
- BOK - BACK OF KERB
- FENCE LINE
- TELSTRA MANHOLE
- (6) - TELSTRA PIT

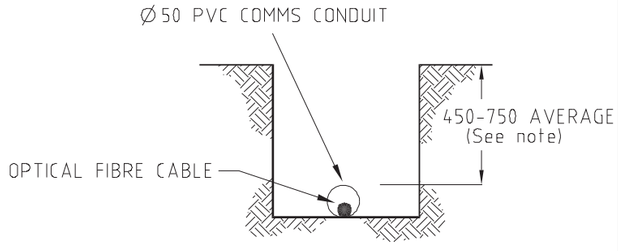


SECTION A-A



SECTION B-B





SECTION C-C

Note:
Conduit depths quoted are approximate only and may change due to unforseen circumstances.
Excavate by hand until conduit depth is determined.

DRAWING NOT TO SCALE

REVISIONS			

Uecomm™ MAKING THE CONNECTION
ACN 079 083 195
SYDNEY
Suite 902, 20 Berry St
North Sydney - 2060

DRAWN G.R.QUIN 27.02.01
APPROVED S.HENRY 27.02.01
UBD REF. 23-E10, F9

DRG No. OFN5/SYD/2154/2

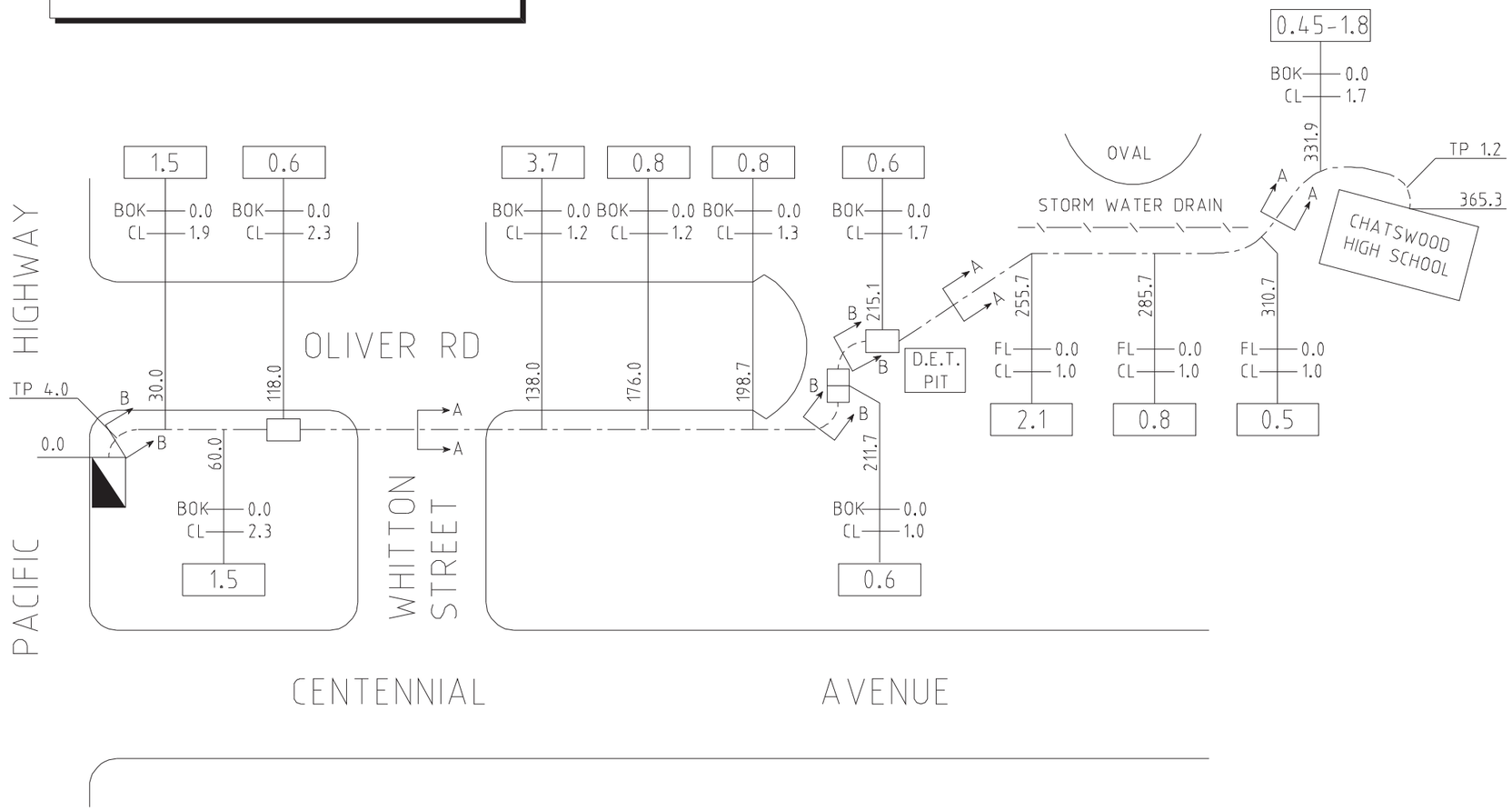
UNDERGROUND FIBRE OPTICAL CABLES
PACIFIC HWY TO VICTORIA AVE VIA
THOMAS ST & KATHERINE ST
CHATSWOOD - 2067

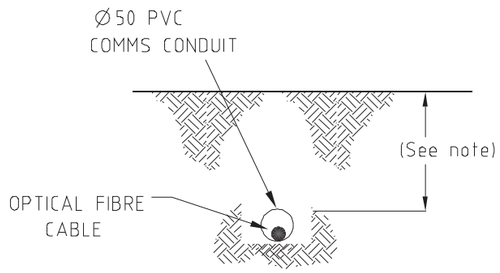
A1

DRAWING NOT TO SCALE

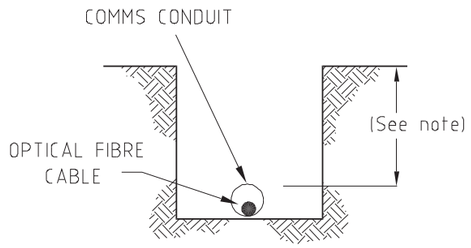
LEGEND

- ELECTRICITY POLE
- FIBRE OPTIC CABLE
- CABLE CONDUIT (TRENCHING)
- CABLE CONDUIT (BORE TUNNELLING)
- UE P2 PIT
- UE P5 PIT
- UE P6 PIT
- UE P8 PIT
- UE P9 PIT
- BL - BUILDING LINE
- BOK - BACK OF KERB
- CL - CENTRELINE OF CONDUIT
- TP - TURNING POINT OF CONDUIT
- FENCE LINE, FL
- TELSTRA MANHOLE
- TELSTRA PIT
- OPTICAL FIBRE JOINT
- JOINT LOOP (m) - POLE / UNDERGROUND
- CABLE HEAD POLE
- 0.6m - CABLE DEPTH





SECTION A-A
BORE



SECTION B-B
TRENCH

ABB Australia Pty Ltd.
109 Bannister Rd
Canning vale WA 6155
QUALITY ENDORSED COMPANY
ISO9001 REGISTRATION No.049
STANDARDS AUSTRALIA

Note:
1. Conduit depths quoted are approximate only and may change due to unforseen circumstances.
2. In all instances it is recommended that the position of conduits & cables should be proved on site by hand, prior to commencement of works.
3. Loop in all pits unless otherwise stated.

REVISION

DATE	REV.	REVISION DESCRIPTION	CHECKED	APP'D.
24.07.03	0	AS BUILT	MW	DC

CONTACT OFFICER	TREVOR SMITH PH: (02) 8226 3244
PROJECT NUMBER	UEC-DE&TS-469
PLAN No.	-
UBD REF	195-F11

Uecomm™ MAKING THE CONNECTION ACN 079 083 195

UECOMM MEL/SYD/QLD

DRAWN JMCK 24.07.03
DESIGN CHECKED M.W. 24.07.03
APPROVED 24.07.03 DC

DRG No. OFN5-SYD-2390

EXTERNAL ROUTE (1 OF 1)
CHATSWOOD HIGH SCHOOL (8232)
CENTENNIAL AVENUE
CHATSWOOD WEST 2067

A3

DRAWING NOT TO SCALE

LEGEND

- ELECTRICITY POLE
- FIBRE OPTIC CABLE
- CABLE CONDUIT (TRENCHING)
- CABLE CONDUIT (BORE TUNNELLING)
- UE P2 PIT
- UE P5 PIT
- UE P6 PIT
- UE P8 PIT
- UE P9 PIT
- BL - BUILDING LINE
- BOK - BACK OF KERB
- CL - CENTRELINE OF CONDUIT
- TP - TURNING POINT OF CONDUIT
- FENCE LINE, FL
- TELSTRA MANHOLE
- T - TELSTRA PIT
- OPTICAL FIBRE JOINT
- JOINT LOOP (m) - POLE / UNDERGROUND
- CABLE HEAD POLE
- 0.6m - CABLE DEPTH

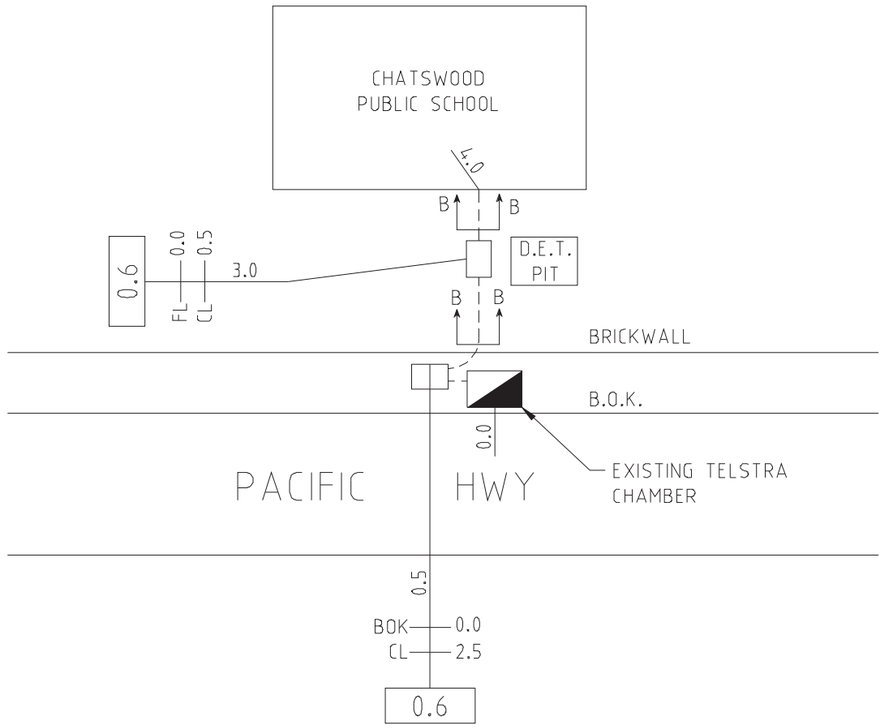
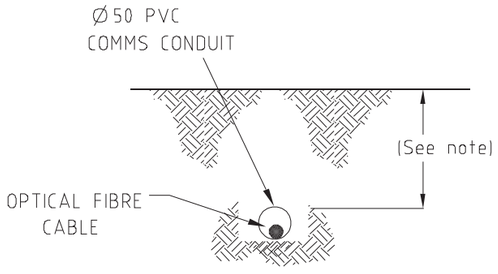
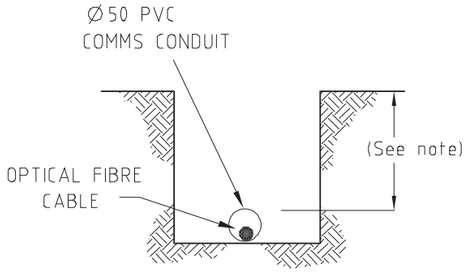


ABB Australia Pty Ltd.
109 Bannister Rd
Canning vale WA 6155
QUALITY ENDORSED COMPANY
ISO9001 REGISTRATION No.049
STANDARDS AUSTRALIA



TYPICAL SECTION
BORE



SECTION B-B
TRENCH

Note:
1. Conduit depths quoted are approximate only and may change due to unforseen circumstances.
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3. Loop in all pits unless otherwise stated.

REVISION

DATE	REV.	REVISION DESCRIPTION	CHECKED	APP'D.
26.07.03	0	AS BUILT	MW	DC

CONTACT OFFICER	TREVOR SMITH PH: (02) 8226 3244
PROJECT NUMBER	UEC-DE&TS-470
PLAN No.	-
UBD REF	195-G10

Uecomm™ MAKING THE CONNECTION
ACN 079 083 195

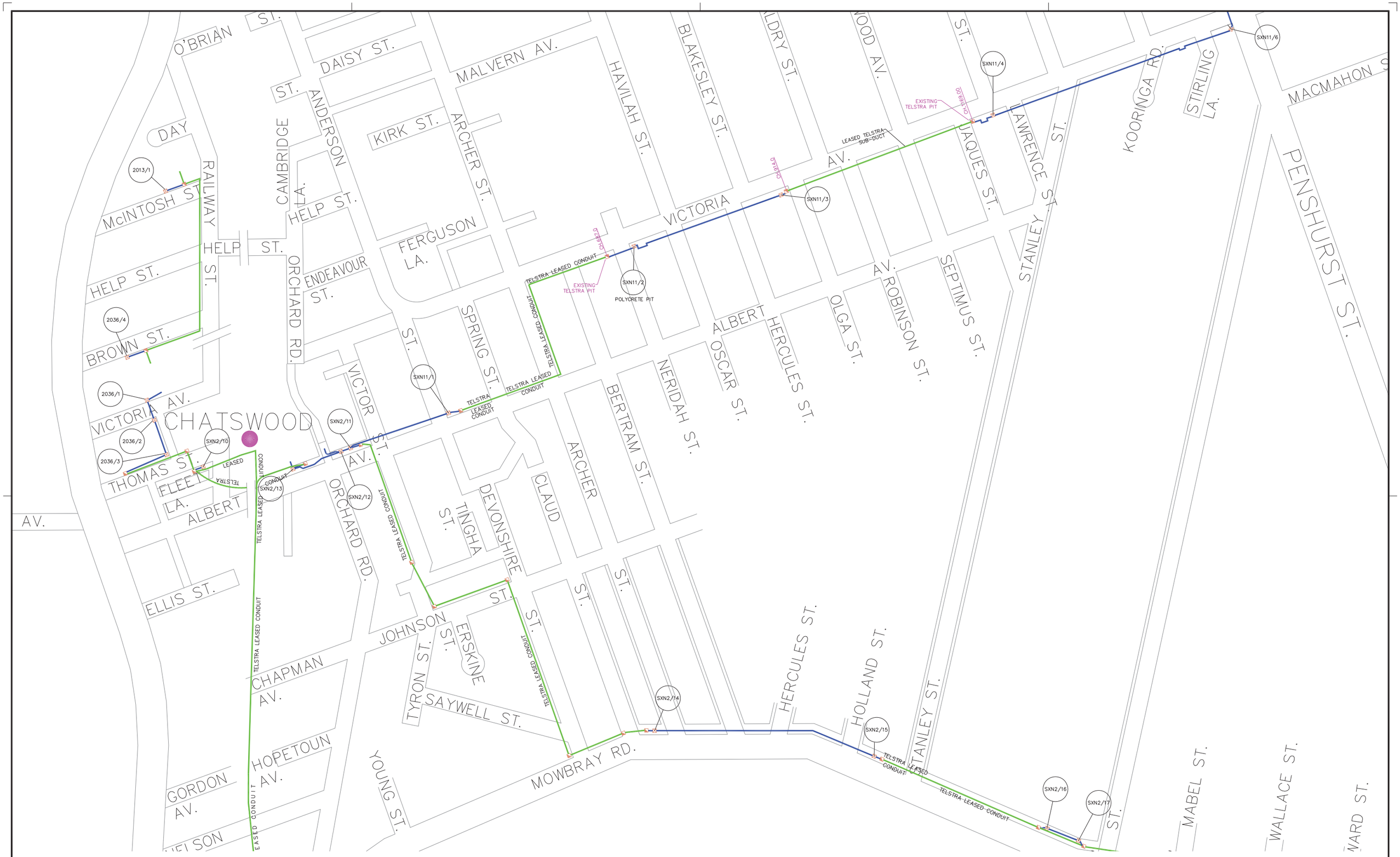
UECOMM
MEL/SYD/QLD

DRAWN JMCK 26.07.03
DESIGN CHECKED M.W. 26.07.03
APPROVED 26.07.03 DC

DRG No. OFN5-SYD-2391

EXTERNAL ROUTE (1 of 1)
CHATSWOOD PUBLIC SCHOOL (7409)
PACIFIC HIGHWAY,
CHATSWOOD WEST 2067

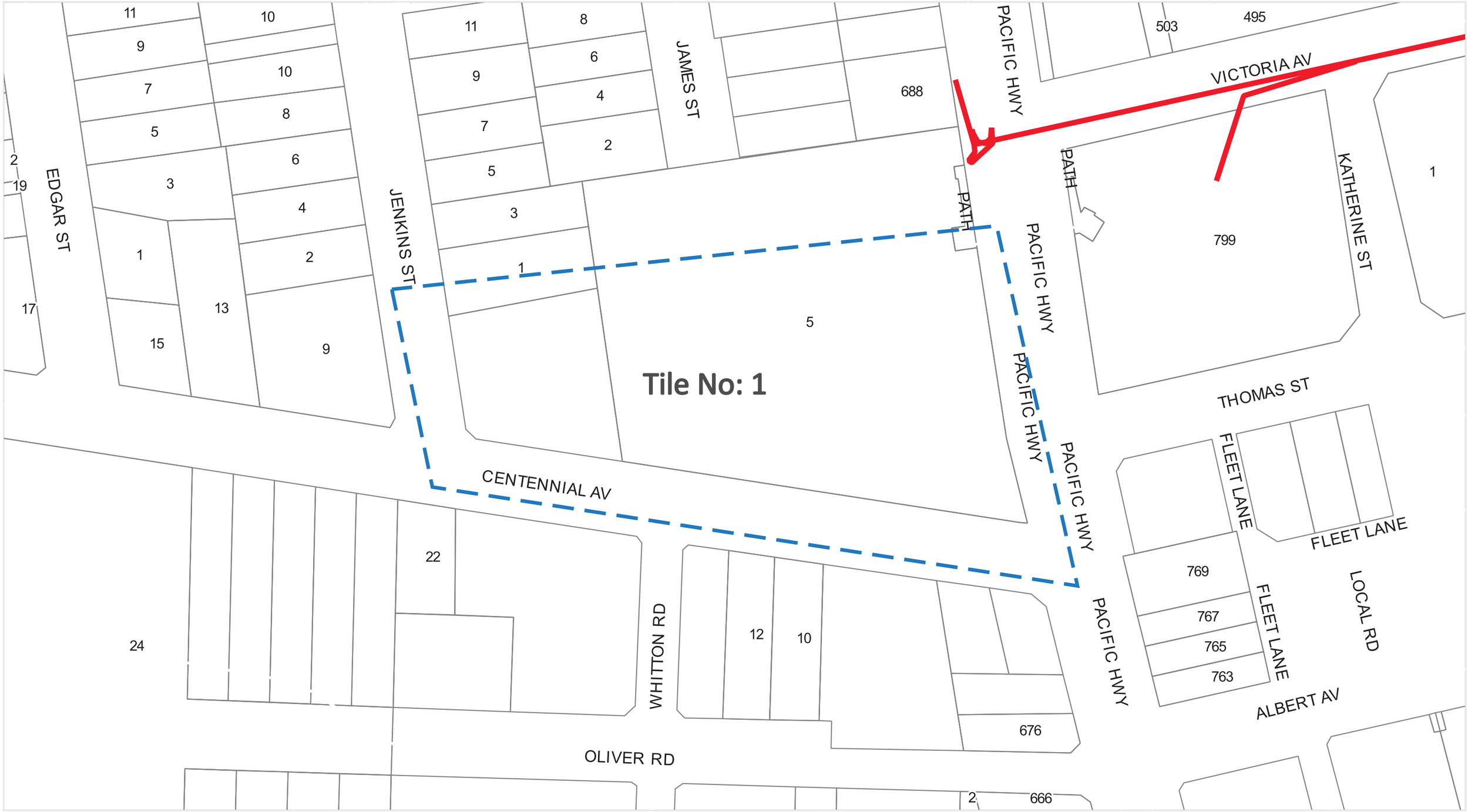
A3


O'BRIAN ST.
DAISY ST.
MALVERN AV.
HAVILAH ST.
BLAKESLEY ST.
LDRY ST.
WOOD AV.
ST.
KOORINGA RD.
STIRLING LA.
MACMAHON S
PENSHURST ST.
DAY
ST.
ANDERSON
CAMBRIDGE
KIRK ST.
ARCHER ST.
RAILWAY
McINTOSH ST
HELP ST.
HELP ST.
HELP ST.
ORCHARD RD.
ENDEAVOUR ST.
FERGUSON LA.
VICTORIA
AV.
JAQUES ST.
LAWRENCE ST.
STANLEY ST.
BROWN ST.
SPRING ST.
ST.
VICTOR
ALBERT
OSCAR ST.
HERCULES ST.
OLGA ST.
ROBINSON ST.
SEPTIMUS ST.
VICTORIA AV.
CHATSWOOD
THOMAS ST.
FLEET LA.
ALBERT
AV.
ORCHARD RD.
BERTRAM ST.
NERIDAH ST.
ARCHER
CLAUD
DEVONSHIRE
TINGHA ST.
ELLIS ST.
JOHNSON ST.
ERSKINE ST.
ST.
ST.
ST.
ST.
TYRON ST.
SAYWELL ST.
CHAPMAN AV.
HOPETOUN AV.
GORDON AV.
YOUNG ST.
MOWBRAY RD.
HERCULES ST.
HOLLAND ST.
STANLEY ST.
ST.
MABEL ST.
WALLACE ST.
NARD ST.
AV.
2013/1
2036/4
2036/1
2036/2
2036/3
SXN2/10
SXN2/11
SXN2/12
SXN2/13
SXN2/14
SXN2/15
SXN2/16
SXN2/17
SXN11/1
SXN11/2
SXN11/3
SXN11/4
SXN11/6
POLYCRETE PIT
EXISTING TELSTRA PIT
EXISTING TELSTRA PIT
EXISTING TELSTRA PIT
LEASED TELSTRA SUB-DUCT
TELSTRA LEASED CONDUIT
TELSTRA LEASED CONDUIT
TELSTRA LEASED CONDUI

aarnet
Australia's Academic and Research Network

Sequence No: 78815767
Job No: 15511972
Location: 5 Centennial Ave, Chatswood, NSW 2067

DIAL BEFORE YOU DIG
www.1100.com.au
The Essential First Step.



Legend | Scale: 1:1500

N

- Enquiry Area
- AARNet Fibre Optic Assets
- AARNet Power Assets
- Cadastre

DISCLAIMER: While reasonable measures have been taken to ensure the accuracy of the information contained in this plan response, neither AARNet or PelicanCorp shall have any liability whatsoever in relation to any loss, damage, cost or expense arising from the use of this plan response or the information contained in it or the completeness or accuracy of such information. Use of such information is subject to and constitutes acceptance of these terms.

Level 17, PIPE Networks House, 127 Creek Street, Brisbane 4000
PH:(07) 3233 9895 FAX:(07) 3233 9880

Attention: Mrs Durkin Construction Office
Fax: 0297120308
DBYD Enquiry Number: 78815761

Date: 02/01/2019

Location: 5 Centennial Ave
Chatswood
NSW
2067

DBYD ENQUIRY RETURN:

PIPE Networks **DOES** own or operate telecommunications network infrastructure within the area detailed above.

The affected network **is contained in the PIPE Networks duct network** and can be found on **PIPE Networks** own network plans.

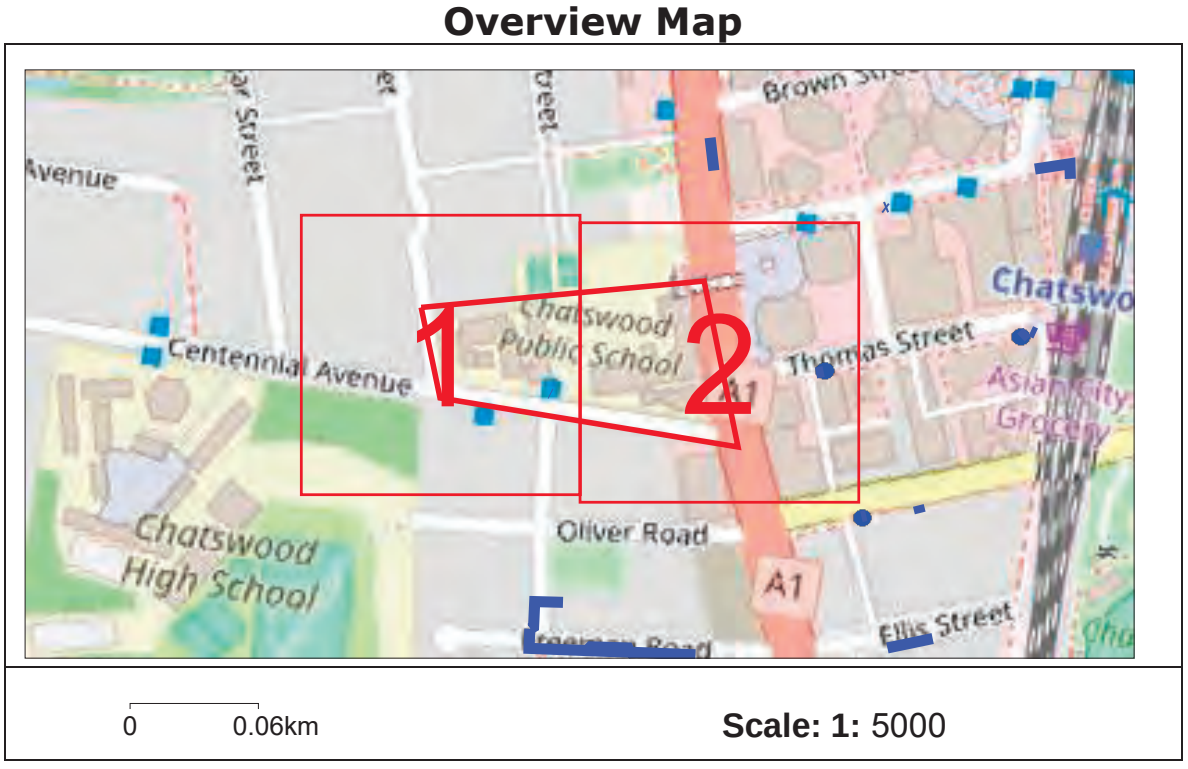
This network is vital to our operations and as such, it is critical that no works commence within the area until a PIPE Networks representative has contacted you.

A PIPE Networks representative will contact you within 24 hours to further discuss your intended works. If you do not hear from PIPE networks within 24hours please call us for assistance.

Due to continued network expansion, this network information can only be considered valid and accurate for 28 days from issue.

PIPE Networks will seek compensation for any damage to its network through negligence or ignorance of your duty of care.

Overview Map



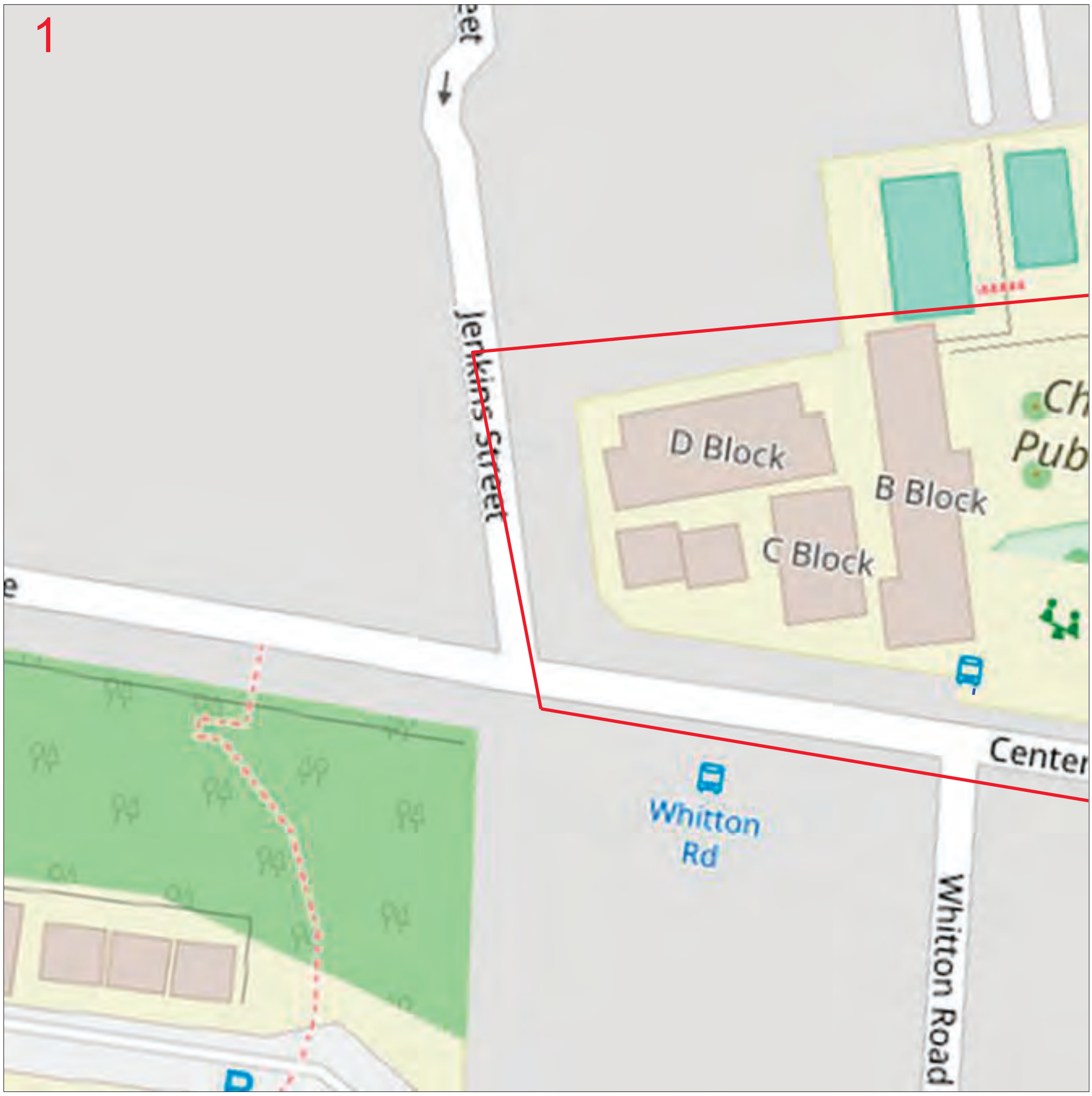
PIPE Networks (for information specific to this job only)
Ph (07) 3233 9895
Email: dbyd@pipenetworks.com

DISCLAIMER: *No responsibility/liability is taken by PIPE Networks for any inaccuracy, error, omission or action based on the information supplied in this correspondence.*

Note: *If the works fall in an area that adjacent to PIPE Networks infrastructure, a pre-inspection is required prior to commencement of works. Contact PIPE Networks to arrange an inspection time.* ***NO WORKS TO COMMENCE PRIOR TO INSPECTION.***

Only PIPE Networks' duct displayed.

For location of PIPE Networks cable in third-party duct, please contact third-party named on attached cover letter.



Enquiry Number: 78815761

Map Sheet: 1

Scale: 1:750

0 0.008km

LEGEND

DBYD Request Area

Line

Area

Asset

Manhole

Duct

N

DISCLAIMER: *No responsibility/liability is taken by PIPE Networks for any inaccuracy, error, omission or action based on the information supplied in this correspondence. © 2013 PIPE Networks Ltd.*

Note: *If the works fall in an area that is adjacent to PIPE Networks infrastructure, a pre-inspection is required prior to commencement of works. Contact PIPE Networks to arrange an inspection time.* ***NO WORKS TO COMMENCE PRIOR TO INSPECTION.***

Only PIPE Networks' duct displayed.

For location of PIPE Networks cable in third-party duct, please contact third-party named on attached cover letter.

Enquiry Number: 78815761

Map Sheet: 2

Scale: 1:750

0 0.008km

LEGEND

DBYD Request Area **Asset**

Line

Area

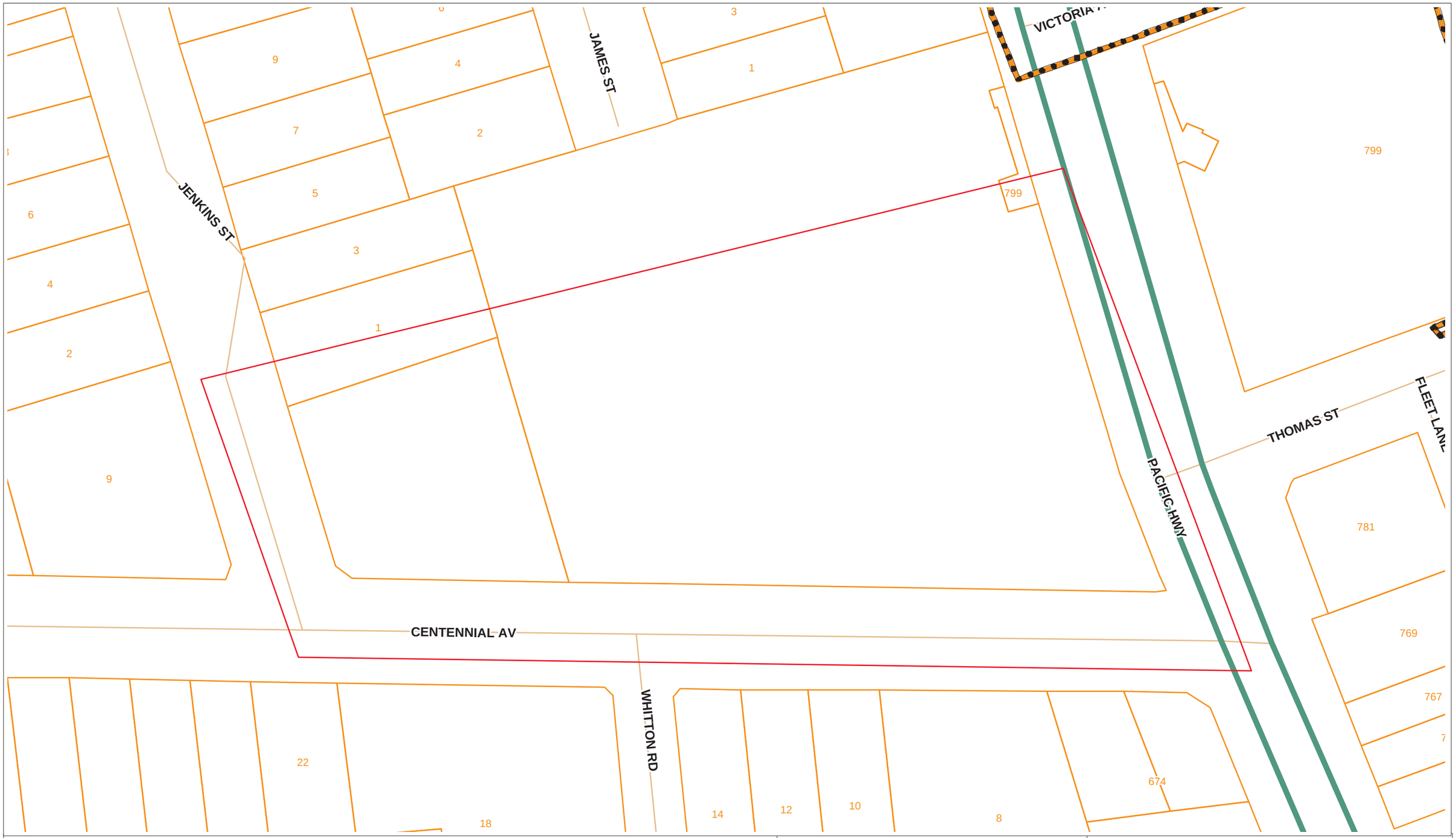
Manhole

Duct

N

DISCLAIMER: *No responsibility/liability is taken by PIPE Networks for any inaccuracy, error, omission or action based on the information supplied in this correspondence. © 2013 PIPE Networks Ltd.*

Note: *If the works fall in an area that is adjacent to PIPE Networks infrastructure, a pre-inspection is required prior to commencement of works. Contact PIPE Networks to arrange an inspection time.* ***NO WORKS TO COMMENCE PRIOR TO INSPECTION.***



Sequence Number: 78815760

Date: 02/01/2019

DISCLAIMER: THIS DRAWING SHOULD NOT BE SCALED TO LOCATE CABLES. NO WARRANTY IS GIVEN THAT THE INFORMATION IS ACCURATE OR COMPLETE. IF YOU REQUIRE INFORMATION REGARDING LOCATING THE CABLE PLEASE CALL NEXTGEN. THIS DOCUMENT HAS BEEN PREPARED SOLELY FOR DIAL BEFORE YOU DIG USE. THIS PLAN CONTAINS COMMERCIALLY SENSITIVE INFORMATION AND IS TO BE TREATED ACCORDINGLY. NO SUCH INFORMATION IS TO BE PASSED ONTO OTHER PARTIES WITHOUT WRITTEN CONSENT FROM NEXTGEN PTY LTD.

nextgen GROUP

LEGEND

Digsite

- Point
- Line
- Area

Assets

- Cable
- 3rd Party Duct
- Marker Post

VOCUS communications

SEQUENCE NUMBER: 78815769
JOB NUMBER: 15511972
ADDRESS: 5 Centennial Ave Chatswood

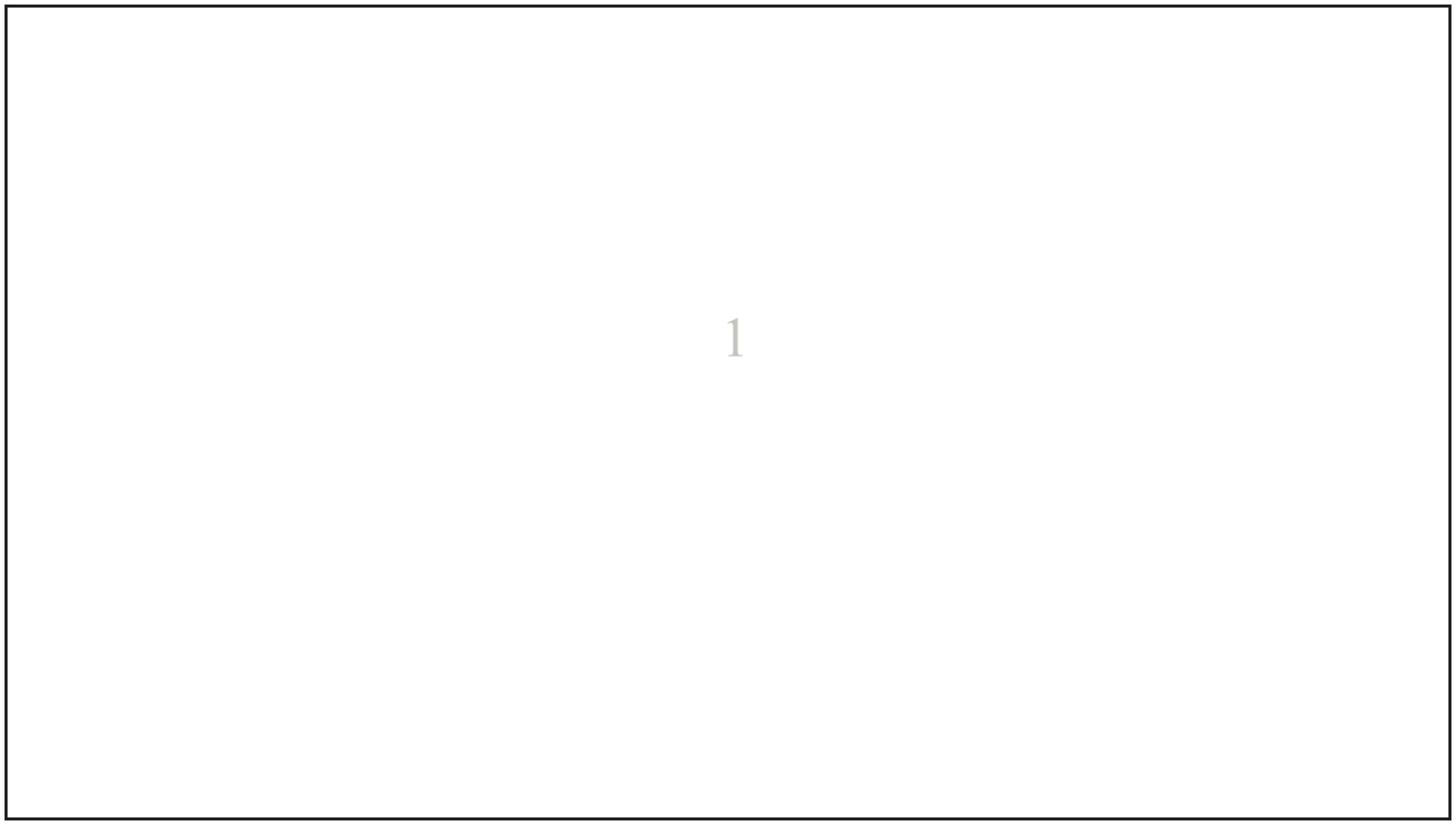
SCALE 1:1000

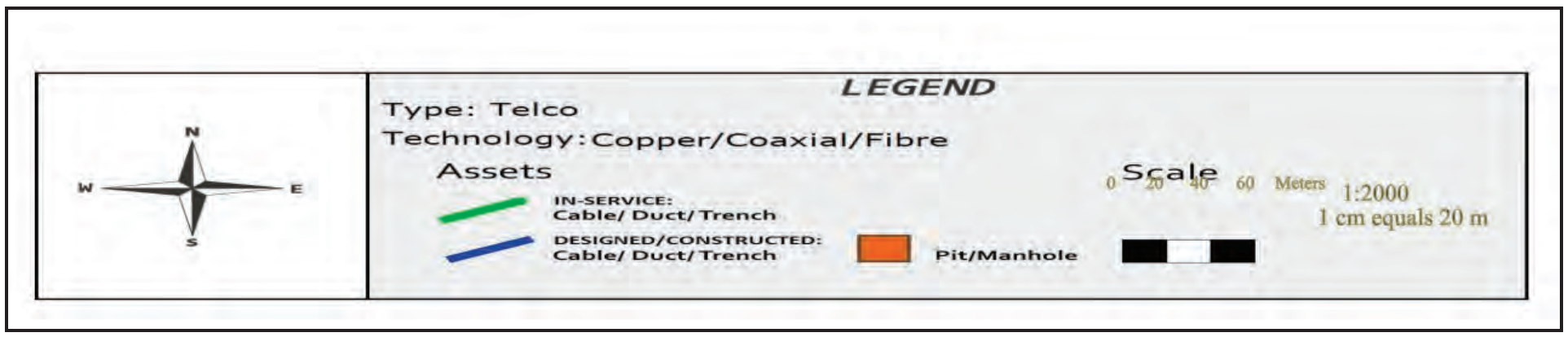
0 0.01km

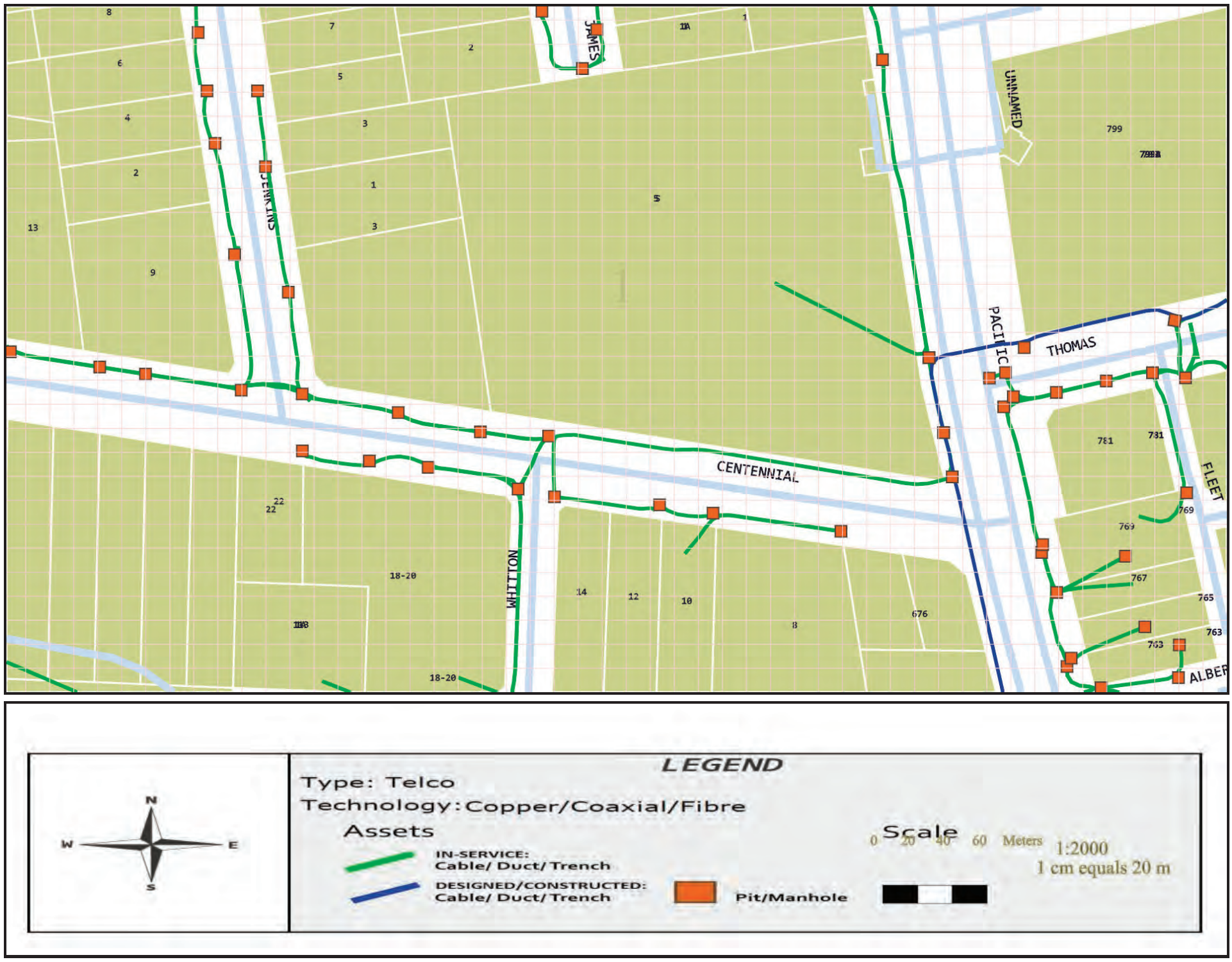
The Vocus Group includes related bodies corporate of Vocus Communications Limited ACN 084 115 499.

Indicative Plans

Issue Date:	02/01/2019
Location:	5 Centennial Ave , Chatswood , NSW , 2067







Emergency Contacts

You must immediately report any damage to **nbn™** network that you are/become aware of. Notification may be by telephone - 1800 626 329.

NORTH WEST

22 Giffnock Ave

Macquarie Park

NSW 2113 Australia

smnwdbyd@transport.nsw.gov.au

Emergency (24hrs) 1800 019 989

Date: 02/01/2019

To:
Mrs Durkin Construction Office
Durkin Construction
39 Waterview St
Five Dock NSW 2046

Response to Dial Before You Dig enquiry

Sydney Metro has been notified of your enquiry as detailed below. Ensure that you review all other documents included with this response for additional details.

Sequence No: 78815770

Job No: 15511972

Location: 5 Centennial Ave
Chatswood NSW 2067

If you require further information, please contact Sydney Metro by email: smnwdbyd@transport.nsw.gov.au

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Important Notice: This enquiry response, including any associated documentation, has been assessed and compiled from the information detailed within the DBYD enquiry outlined above. Please ensure that the DBYD enquiry details and this response accurately reflect your proposed works.

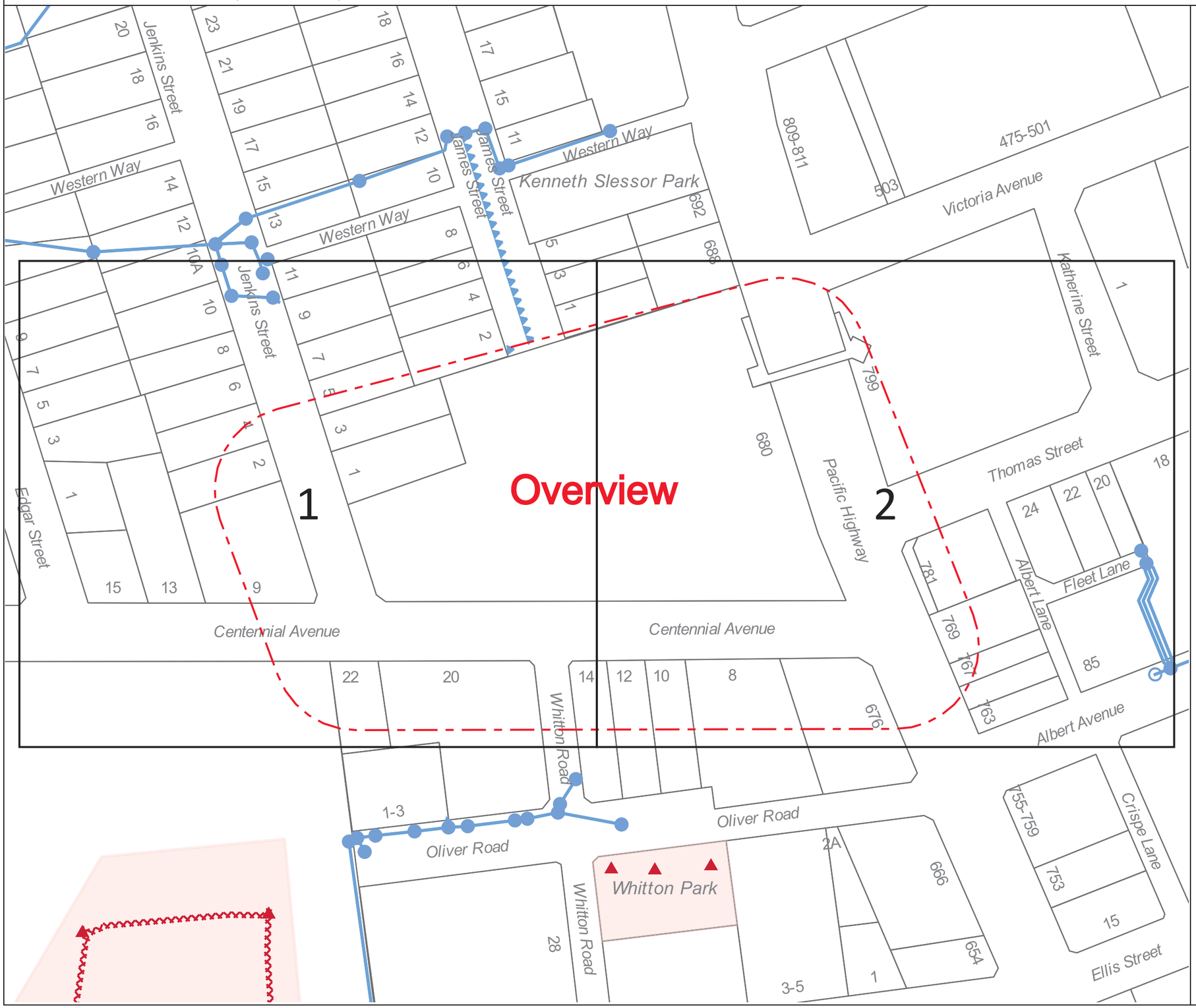
This response is intended for use only by the addressee. If you have received the enquiry response in error, please let us know by telephone and delete all copies; you are advised that copying, distributing, disclosing or otherwise acting in reliance on the response is expressly prohibited.

While reasonable measures have been taken to ensure the accuracy of the information contained in this plan response, neither Sydney Metro or PelicanCorp shall have any liability whatsoever in relation to any loss, damage, cost or expense arising from the use of this plan response or the information contained in it or the completeness or accuracy of such information. Use of such information is subject to and constitutes acceptance of these terms.

Name: Mrs Durkin Construction Office
Email: durkindbyd@gmail.com
Sequence no.: 78815757
Job no.: 15511972
Location: 5 Centennial Ave, Chatswood, NSW 2067

DIAL BEFORE YOU DIG www.1100.com.au

WILLOUGHBY CITY COUNCIL City of Diversity



The information shown on this drawing is provided by Willoughby City Council and details Council's underground stormwater, electrical or communication assets. Unless otherwise indicated, it does not include private assets or assets of any other authority. Where assets are shared or owned by another party, the owner(s) of the asset must be contacted for any further information or approvals regarding the asset.

Information provided on any plans by Willoughby City Council may have inaccuracies or omissions. While reasonable measures have been taken to ensure the accuracy of the information contained in this plan response, neither Willoughby City Council or PelicanCorp shall have any liability whatsoever in relation to any loss, damage, cost or expense arising from the use of this plan response or the information contained in it or the completeness or accuracy of such information. Use of such information is subject to and constitutes acceptance of these terms.

Exact positions of any assets shown on this plan must be confirmed by field investigation. Please refer to the cover letter attached to your email for further information.

Locations of Council's electrical assets are indicative only and some of these electrical assets may not be displayed on the drawing. Please contact Council on (02) 9777 1000 for further information.

All electrical apparatus shall be regarded as live until proven to have been de-energised. Contact with live electrical apparatus will cause severe injury or death.

Excavation work must be in accordance with the Work Health and Safety Regulation 2017 and the SafeWork NSW Excavation Work Code of Practice which can be obtained from SafeWork NSW.

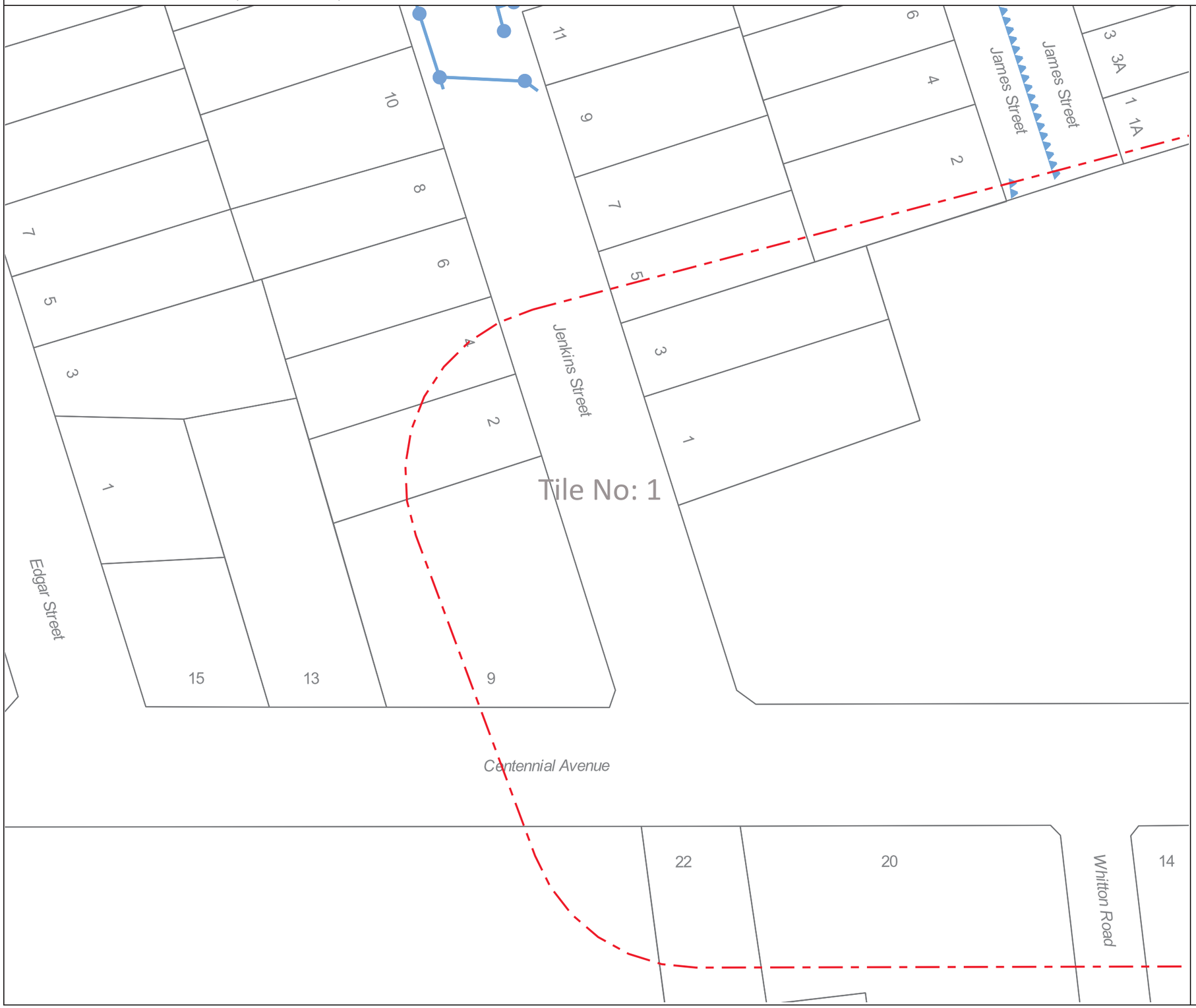
Any works within Council's public road reserve or Council property require Council's consent. Council must be contacted on (02) 9777 1000 prior to the commencement of any work to be carried out in Council property or within the vicinity of Council's electrical assets.

- Council Stormwater pipe
- Stormwater pipe shared with or owned by another party
- Council Stormwater node
- Stormwater node shared with or owned by another party
- Area containing electrical assets
- Council underground electrical cables
- Council miscellaneous electrical assets
- Council communication cables
- Council communication pits

N

Map not to scale

Name: Mrs Durkin Construction Office
Email: durkindbyd@gmail.com
Sequence no.: 78815757
Job no.: 15511972
Location: 5 Centennial Ave, Chatswood, NSW 2067



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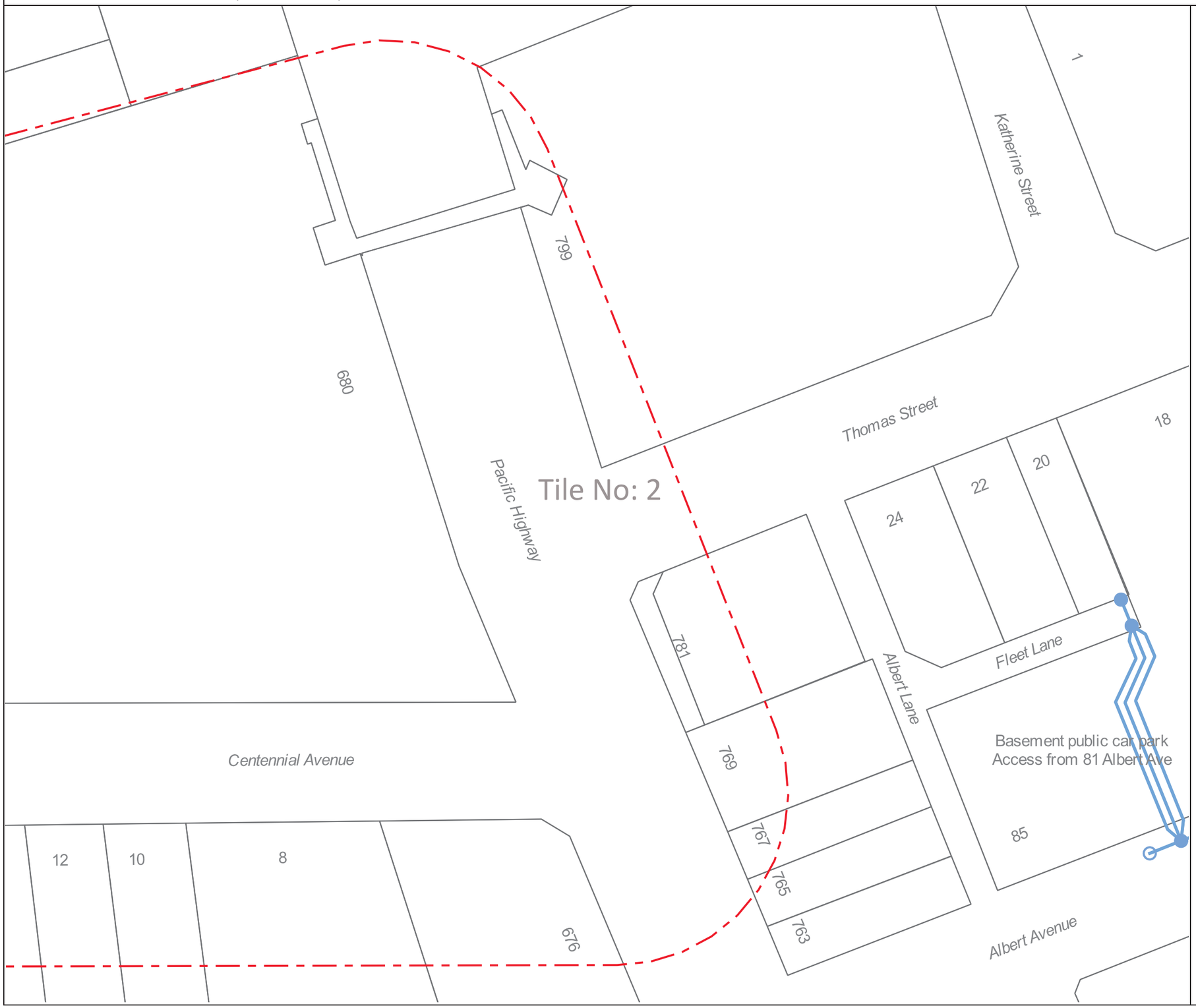
- Council communication pits

N

Map not to scale

Name: Mrs Durkin Construction Office
Email: durkindbyd@gmail.com
Sequence no.: 78815757
Job no.: 15511972
Location: 5 Centennial Ave, Chatswood, NSW 2067



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N

Map not to scale