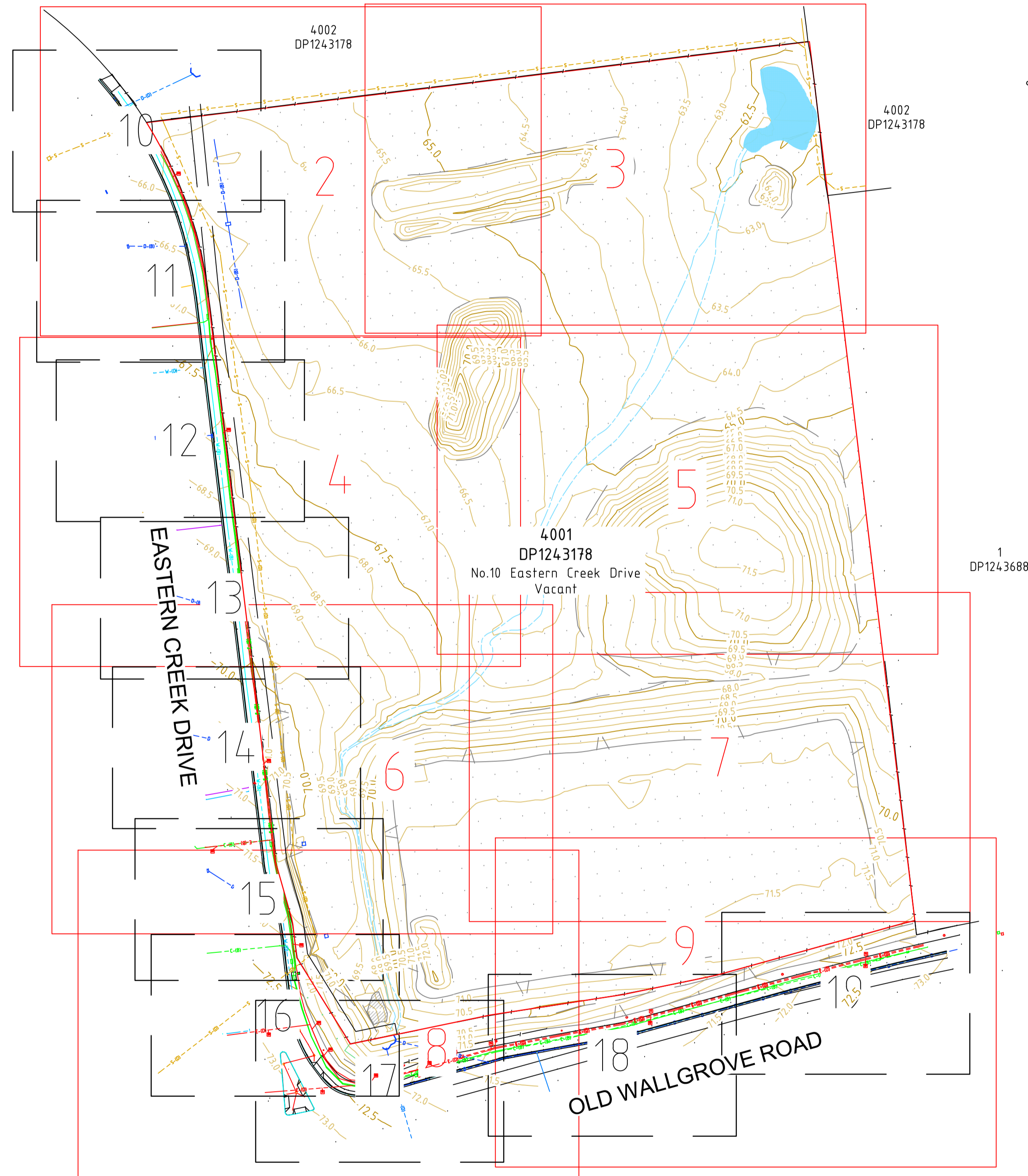


10 EASTERN CREEK DRIVE EASTERN CREEK

TOPOGRAPHIC SURVEY AND SUBSURFACE UTILITY INVESTIGATION



LOCALITY PLAN
(Scale 1:1000)

SURVEY NOTES:

- ORIGIN OF LEVELS: SSM 198644, RL73.987 AHD (SOURCE: SCIMS 7 MAY 2019)
- HORIZONTAL DATUM: MGA z56 GROUND
ORIGIN: SSM164956 WITH AZIMUTH TO SSM164955 (SOURCE: SCIMS 7 MAY 2019)
- RELATIONSHIP OF IMPROVEMENTS AND DETAIL TO BOUNDARIES IS DIAGRAMMATIC ONLY. CRITICAL BOUNDARY OFFSETS FOR ANY FEATURES OR STRUCTURES WILL REQUIRE FURTHER SURVEY.
- CONTOURS ARE AN INDICATION OF THE TOPOGRAPHY ONLY. SPOT LEVELS SHOULD BE USED IF DETAILED DESIGN IS TO BE UNDERTAKEN.
- CONTOUR INTERVAL: MINOR - 0.2m
MAJOR - 1.0m
- TREES ARE NOT DRAWN TO SCALE. THE SPREAD & HEIGHT OF EACH TREE IS INDICATIVE ONLY AND SPECIFIC DETAILS, IF CRITICAL, WILL REQUIRE FURTHER SURVEY.
- THE MGA NORTH POINT SHOWN IS APPROXIMATE ONLY.

THESE NOTES FORM AN INTEGRAL PART OF THE PLAN AND SHOULD ALWAYS BE SHOWN

SURVEY SYMBOL LEGEND:

- +
- ▲
-
- H
- G
- F

- SURVEY ABBREVIATIONS**
- RL - REDUCED LEVEL
 - TW - TOP OF WALL
 - TK - TOP OF KERB
 - BK - BACK OF KERB
 - IK - INVERT OF KERB

SERVICE LOCATING ABBREVIATIONS

- IL - INVERT LEVEL
- Ø - DIAMETER
- QA - QUALITY LEVEL A
- QB - QUALITY LEVEL B
- QC - QUALITY LEVEL C
- QD - QUALITY LEVEL D
- DBYD - DIAL BEFORE YOU DIG

PIPE TYPE ABBREVIATIONS

- CONC - CONCRETE
- DI - DUCTILE IRON
- DICL - DUCTILE IRON CEMENT LINED
- GRP - GLASS REINFORCED PLASTICS
- HOPPE - HIGH DENSITY POLYETHYLENE
- PVC - POLYVINYL CHLORIDE

SERVICE LOCATING SYMBOLS:

- ELECTRICAL**
- ELEC PIT
 - ELEC LIGHT POLE
 - ELEC PILLAR
- DRAINAGE**
- GRATED DRAINAGE PIT
 - DRAINAGE PIT
 - DRAINAGE MANHOLE
- COMMUNICATIONS**
- COMMS PIT
 - COMMS PILLAR
- SEWER**
- SEWER PIT
 - SEWER MANHOLE
 - SEWER INSPECTION OPENING
 - STOP VALVE
 - SEWER VENT
- WATER**
- HYDRANT
 - STOP VALVE

SERVICE LOCATING NOTES & LINETYPES:

SUBSURFACE UTILITY INFORMATION (SUI) AS5488 LOCATION CLASS 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.

QL-A: Information is the highest possible level of accuracy and is obtained by exposing the underground utility using a non-destructive excavation (pot holing) technique. The vertical information for this locating method is to the top or shallowest part of the located service. The 3D location is recorded by survey as an X, Y, Z coordinate.

QL-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.

QL-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. Electronically traced locate marks with poor scratchy signals are represented as QL-C.

QL-D: Information is the most basic level of utility locations using only information based on existing Dial-Before-You-Dig plans and by measuring boundary offsets etc. This method of utility locations should always be treated as an indication of the presence of a service only and should not be used for design. GPR scans are also represented as QL-D as the GPR image cannot be confirmed to it's origin point. Depths on GPR scan must be treated as indicative only.

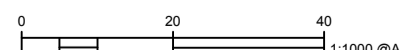
	ELECTRICAL	GAS	UNIDENTIFIED	SEWER
QL-B	E (B)	G (B)	UN (B)	S (B)
QL-C	E (C)	G (C)	UN (C)	S (C)
QL-D	E (D)	G (D)	UN (D)	S (D)
	COMMUNICATIONS	DRAINAGE	DRAINAGE (SUBSOIL)	WATER
QL-B	C (B)	D (B)	SS (B)	W (B)
QL-C	C (C)	D (C)	SS (C)	W (C)
QL-D	C (D)	D (D)	SS (D)	W (D)

Cadd File: C:\Users\karlulbrich\AppData\Local\Temp\121954-SU-DT-0100 [A].dwg

100mm AT FULL SIZE Plot Date: 28/05/19 - 14:25

12/11/2019

SCALES



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REGISTERED SURVEYORS



SURVEYED	SRA, DH, BW
DRAWN	SRA, KPU
SURVEY CHECK	SCOTT ALLISON
DRAWING CHECK	KARL ULBRICH
APPROVED	SCOTT ALLISON

10 EASTERN CREEK DRIVE

EASTERN CREEK, NSW
LOT 4001 DP1243178
TOPOGRAPHIC SURVEY AND SUBSURFACE UTILITY INVESTIGATION

STATUS: FOR INFORMATION	SHEET 1 OF 19	©
CRUX Dig No. 121954-SU-DT-0101	REV.	A

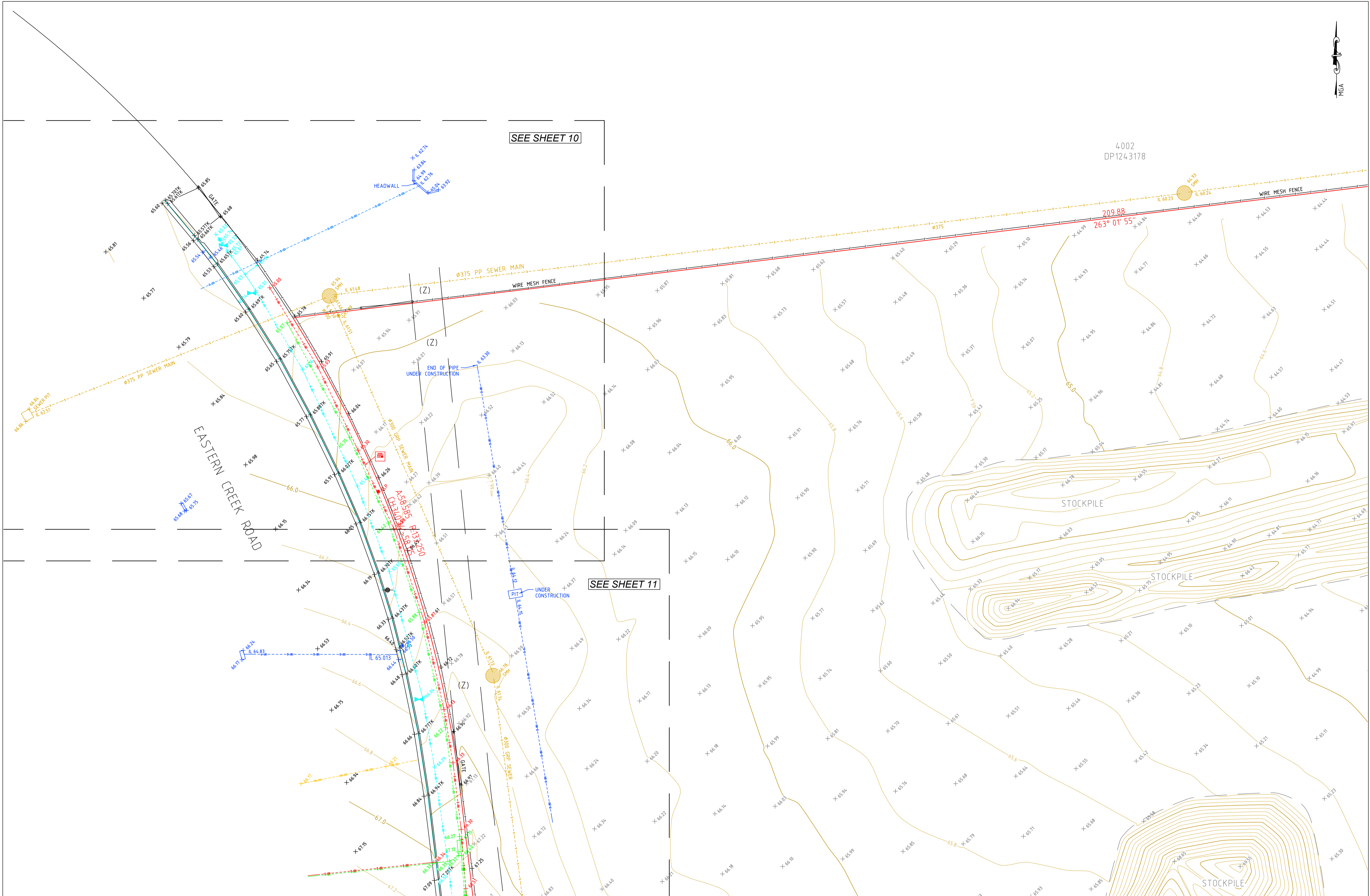
REV.	BY	DATE	DESCRIPTION	APPD.
A1	KPU	27/05/2019	FOR INFORMATION	SRA

Co-ordinate System: MGA Zone 56 | Height Datum: A.H.D. | This sheet may be prepared using colour and may be incomplete if copied



SEE SHEET 10

4 002
DP124 3178



SEE SHEET 11

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SURVEYED	SRA, DH, BW
DRAWN	SRA, KPU
SURVEY CHECK	SCOTT ALLISON
DRAWING CHECK	KARL ULBRICH
APPROVED	SCOTT ALLISON

10 EASTERN CREEK DRIVE

EASTERN CREEK, NSW
LOT 4001 DP1243178
TOPOGRAPHIC SURVEY AND SUBSURFACE UTILITY INVESTIGATION

STATUS: FOR INFORMATION
SHEET 2 OF 19
CRUX Dig No. 121954-SU-DT-0102

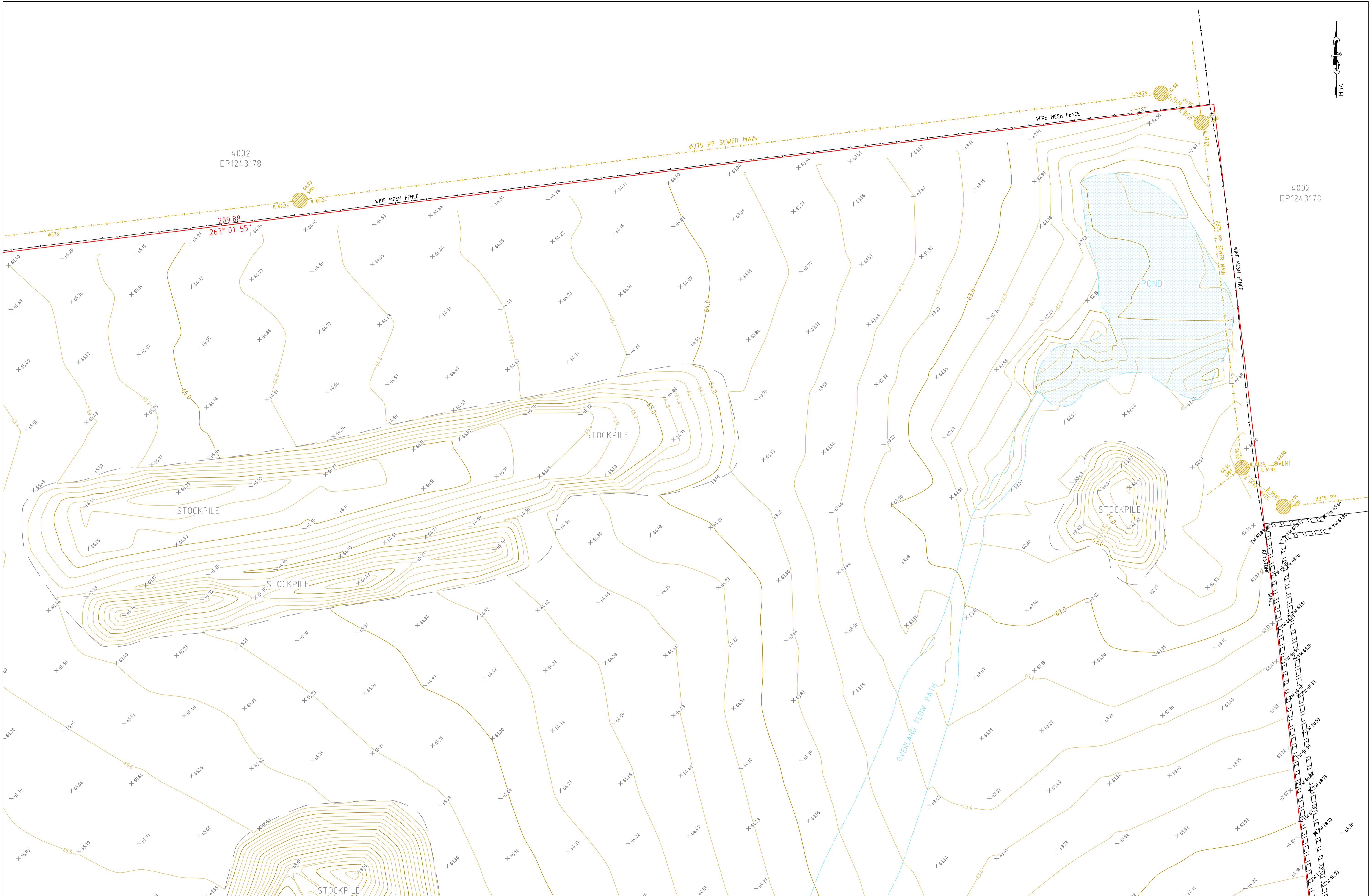
REV.	BY	DATE	DESCRIPTION	APPD.
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A1	Original		Co-ordinate System: MGA Zone 56	
			Height Datum: A.H.D.	
			This sheet may be prepared using colour and may be incomplete if copied	

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100mm AT FULL SIZE Plot Date: 26/05/19 - 14:40

100mm AT FULL SIZE



REV.	BY	DATE	DESCRIPTION	APPD.
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A1	Original		Co-ordinate System: MGA Zone 56	
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			This sheet may be prepared using colour and may be incomplete if copied	

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REGISTERED SURVEYORS
CRUX
SURVEYING AUSTRALIA
PTY LTD
CONSTRUCTION-CIVIL-CADASTRAL
MARRADRA - NORTH SYDNEY - BRISBANE

SURVEYED	SRA, DH, BW
DRAWN	SRA, KPU
SURVEY CHECK	SCOTT ALLISON
DRAWING CHECK	KARL ULBRICH
APPROVED	SCOTT ALLISON

10 EASTERN CREEK DRIVE
EASTERN CREEK, NSW
LOT 4001 DP1243178
TOPOGRAPHIC SURVEY AND SUBSURFACE UTILITY INVESTIGATION

STATUS: FOR INFORMATION	SHEET 3 OF 19	©
CRUX Dwg No. 121954-SU-DT-0103	REV.	A

REV.	BY	DATE	DESCRIPTION	APPD.
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A1	Original		Co-ordinate System: MGA Zone 56	
			Height Datum: A.H.D.	
			This sheet may be prepared using colour and may be incomplete if copied	

SCALES

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PTY LTD
CONSTRUCTION - CIVIL - CADASTRAL
MELBOURNE | NORTH SYDNEY | BRISBANE

10 EASTERN CREEK DRIVE

EASTERN CREEK, NSW
LOT 4001 DP1243178
TOPOGRAPHIC SURVEY AND SUBSURFACE UTILITY INVESTIGATION

STATUS: FOR INFORMATION

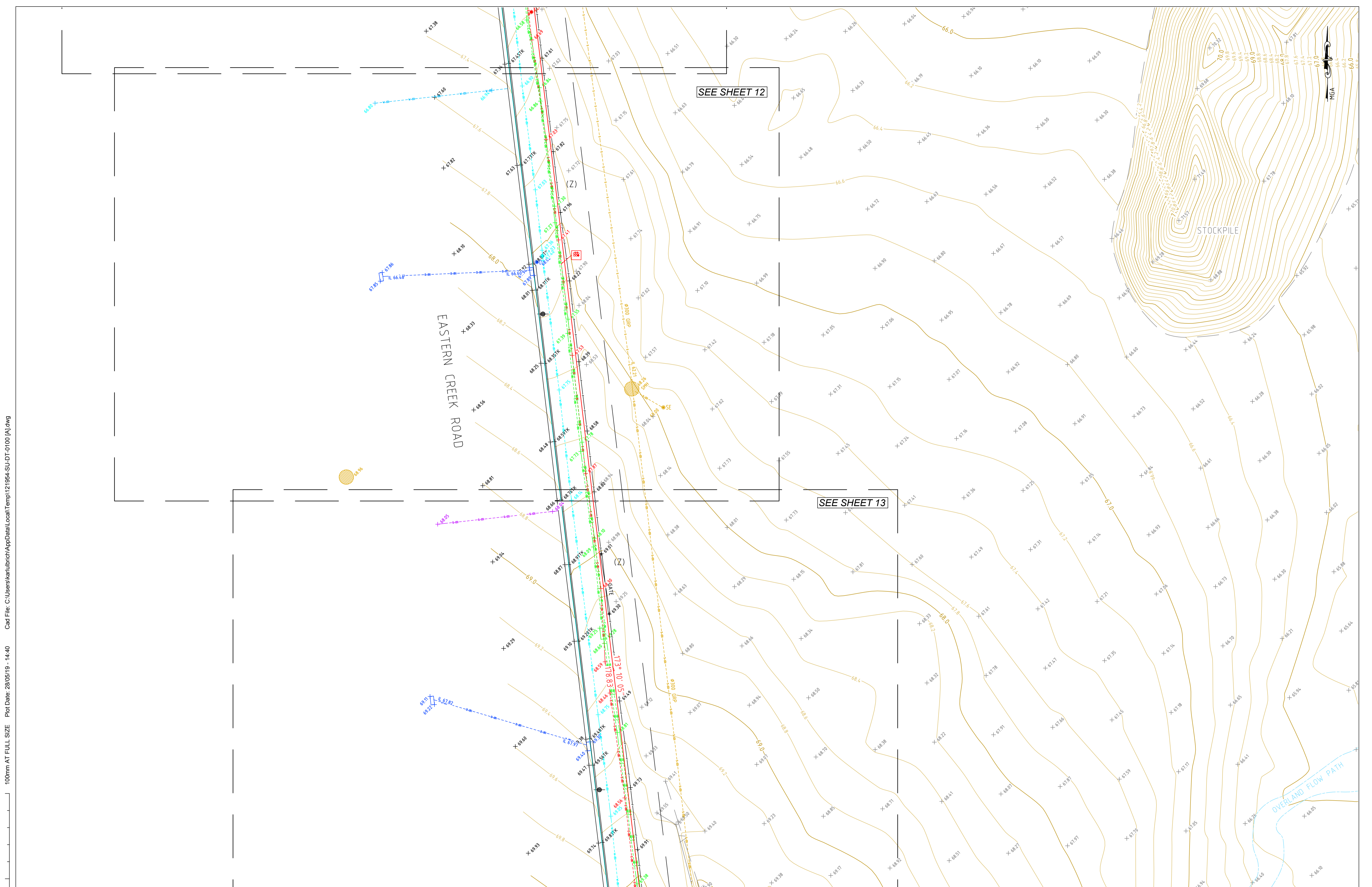
SHEET 4 OF 19

CRUX Dig No. 121954-SU-DT-0104

SURVEYED	SRA, DH, BW
DRAWN	SRA, KPU
SURVEY CHECK	SCOTT ALLISON
DRAWING CHECK	KARL ULBRICH
APPROVED	SCOTT ALLISON
	27/05/2019

©

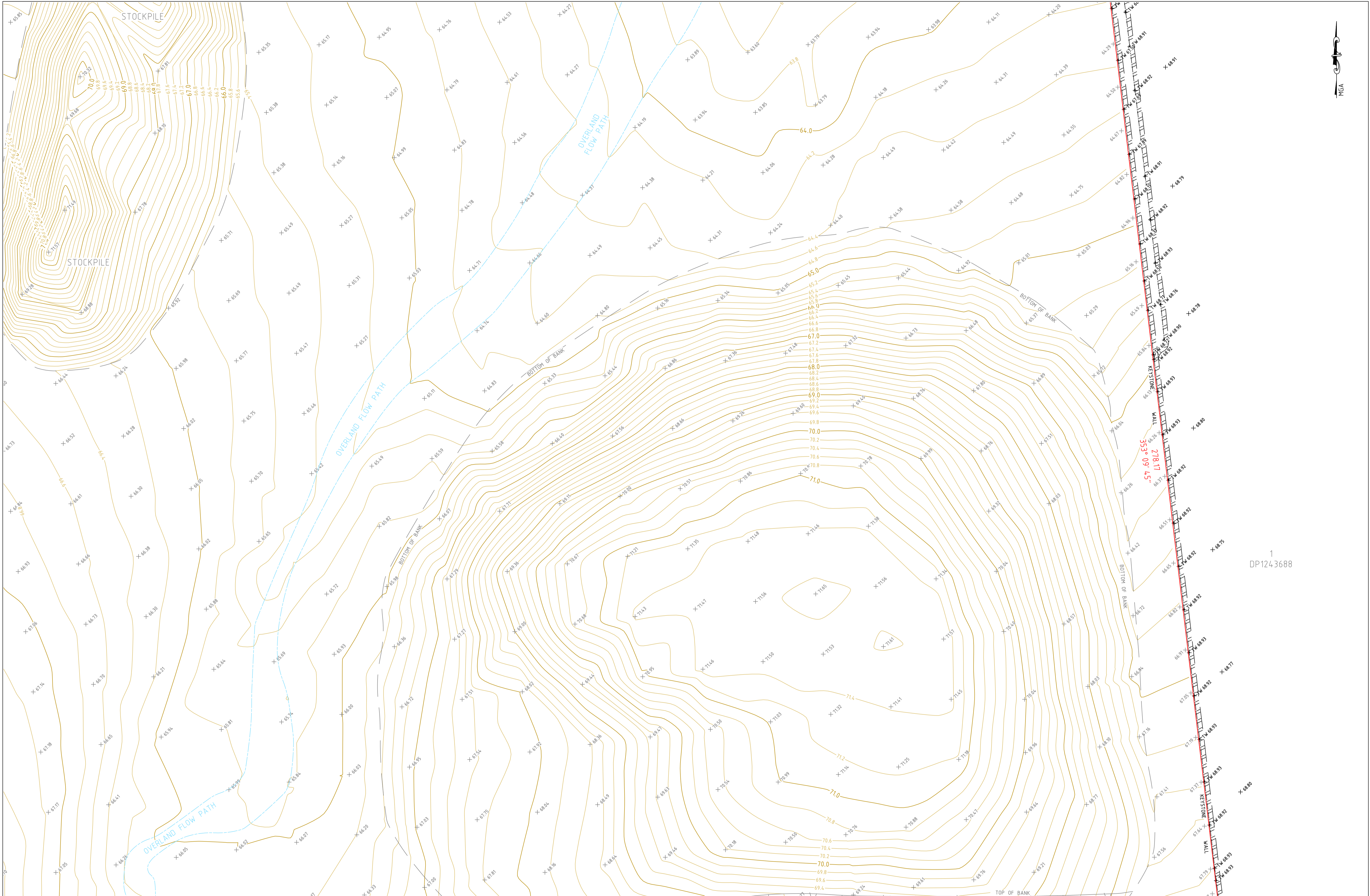
REV. A



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Plot Date: 26/05/19 - 14:40

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1
DP1243688

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A1	Original		Co-ordinate System: MGA Zone 56	
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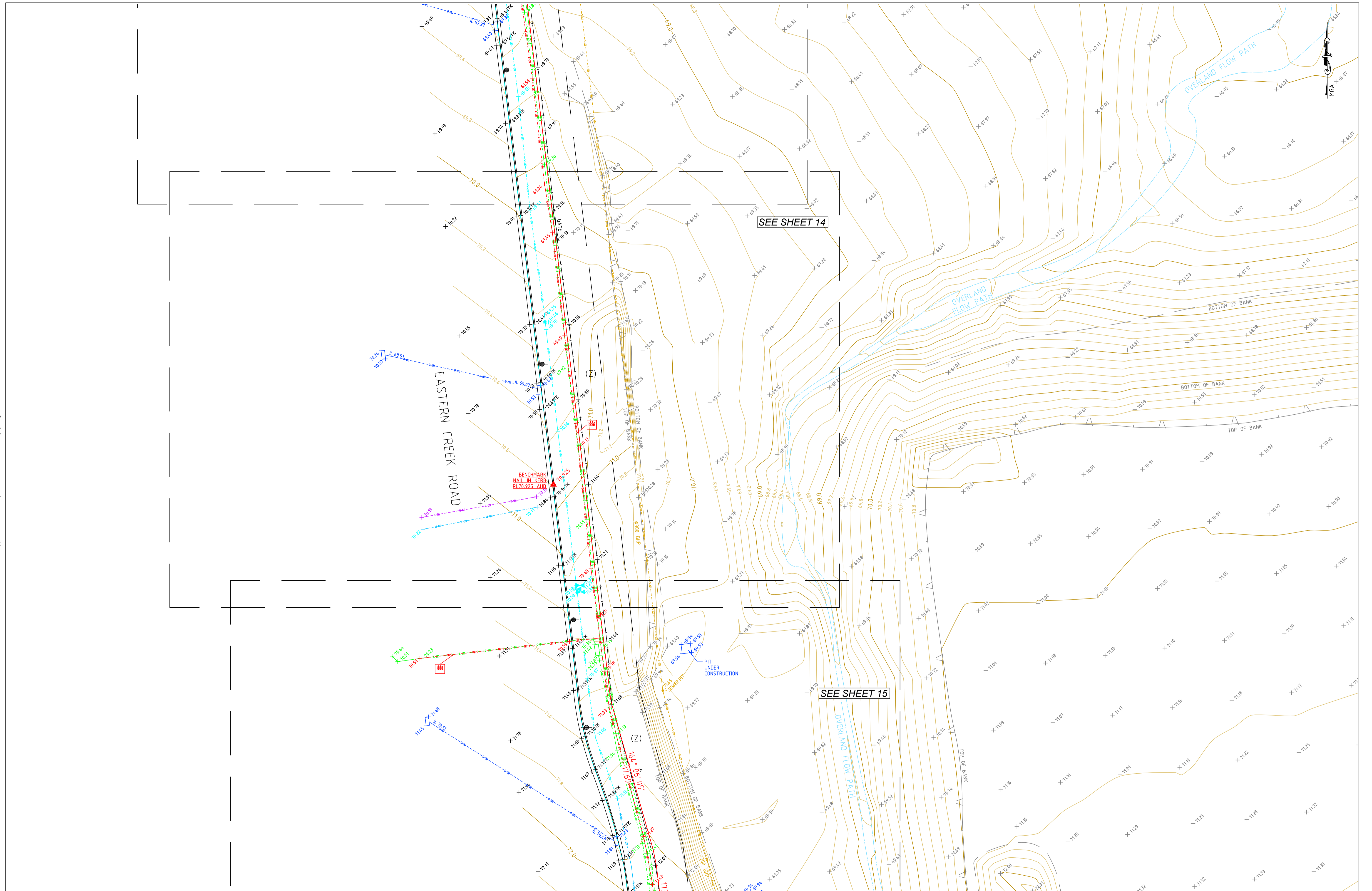
REGISTERED SURVEYORS
CRUX
SURVEYING AUSTRALIA
CONSTRUCTION-CIVIL-CADASTRAL
MELBOURNE | NORTH SYDNEY | BRISBANE

10 EASTERN CREEK DRIVE
EASTERN CREEK, NSW
LOT 4001 DP1243178
TOPOGRAPHIC SURVEY AND SUBSURFACE UTILITY INVESTIGATION

STATUS: FOR INFORMATION
SHEET 5 OF 19
CRUX Dig No. 121954-SU-DT-0105

SURVEYED: SRA, DH, BW
DRAWN: SRA, KPU
SURVEY CHECK: SCOTT ALLISON
DRAWING CHECK: KARL ULBRICH
APPROVED: SCOTT ALLISON 27/05/2019

REV. A



REV.	BY	DATE	DESCRIPTION	APPD.
A	KPU	27/05/2019	FOR INFORMATION	SRA
A1	Original		Co-ordinate System: MGA Zone 56	
			Height Datum: A.H.D.	
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PTY LTD
CONSTRUCTION-CIVIL-CADASTRAL
MARRADRA - NORTH SYDNEY - BRISBANE

SURVEYED: SRA, DH, BW
DRAWN: SRA, KPU
SURVEY CHECK: SCOTT ALLISON
DRAWING CHECK: KARL ULBRICH
APPROVED: SCOTT ALLISON 27/05/2019

10 EASTERN CREEK DRIVE
EASTERN CREEK, NSW
LOT 4001 DP1243178
TOPOGRAPHIC SURVEY AND SUBSURFACE UTILITY INVESTIGATION

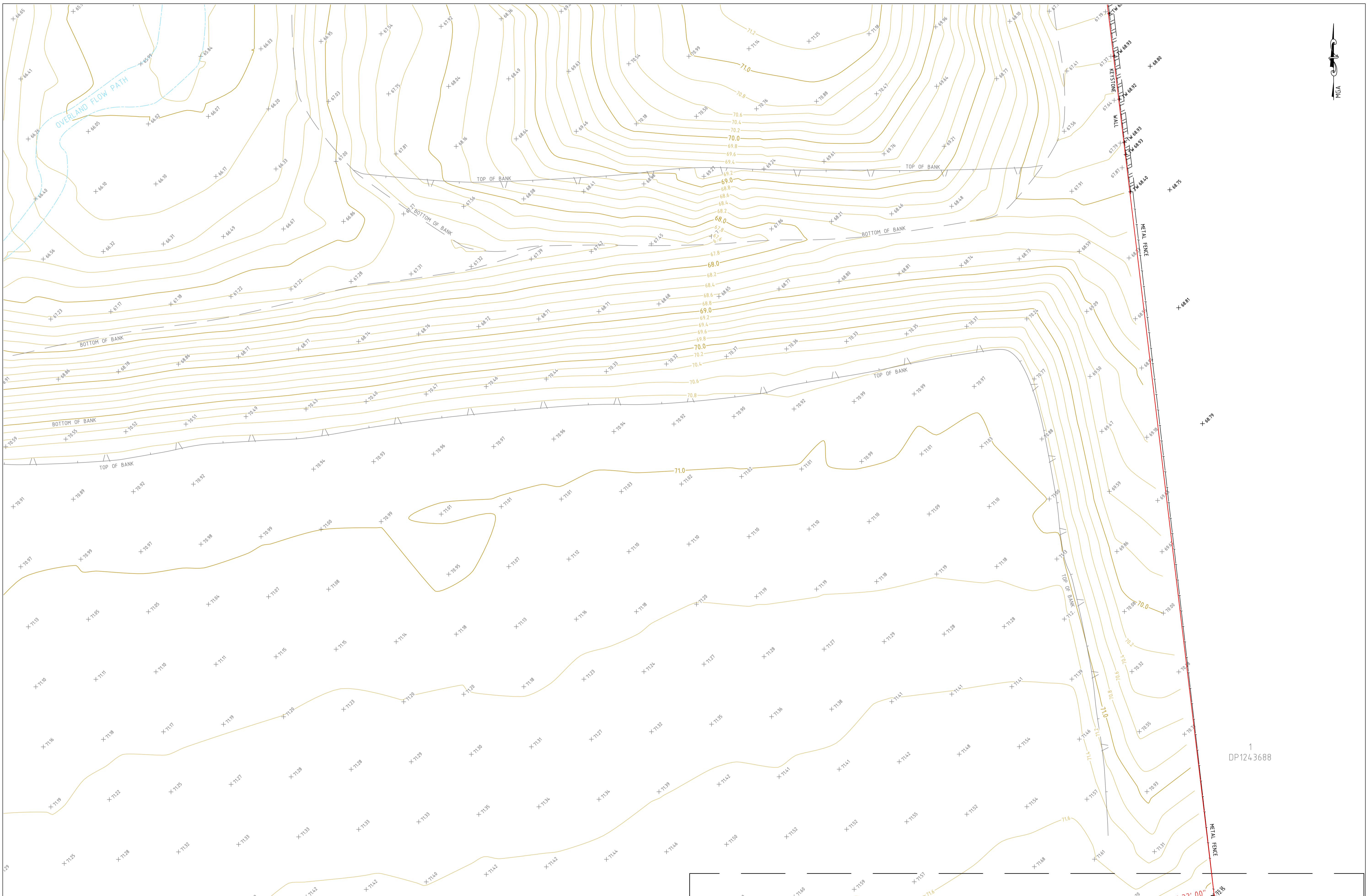
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SHEET 6 OF 19
CRUX Dig No. 121954-SU-DT-0106

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REV. A

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100mm AT FULL SIZE

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A1	Original		Co-ordinate System: MGA Zone 56	
			Height Datum: A.H.D.	
			This sheet may be prepared using colour and may be incomplete if copied	

SCALES

0 4 8m
1:200 GA1

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CRUX
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PTY LTD
CONSTRUCTION - CIVIL - CADASTRAL
MARRADGA - NORTH SYDNEY - BRISBANE

SURVEYED: SRA, DH, BW
DRAWN: SRA, KPU
SURVEY CHECK: SCOTT ALLISON
DRAWING CHECK: KARL ULBRICH
APPROVED: SCOTT ALLISON 27/05/2019

10 EASTERN CREEK DRIVE

EASTERN CREEK, NSW
LOT 4001 DP1243178
TOPOGRAPHIC SURVEY AND SUBSURFACE UTILITY INVESTIGATION

STATUS: FOR INFORMATION SHEET 7 OF 19

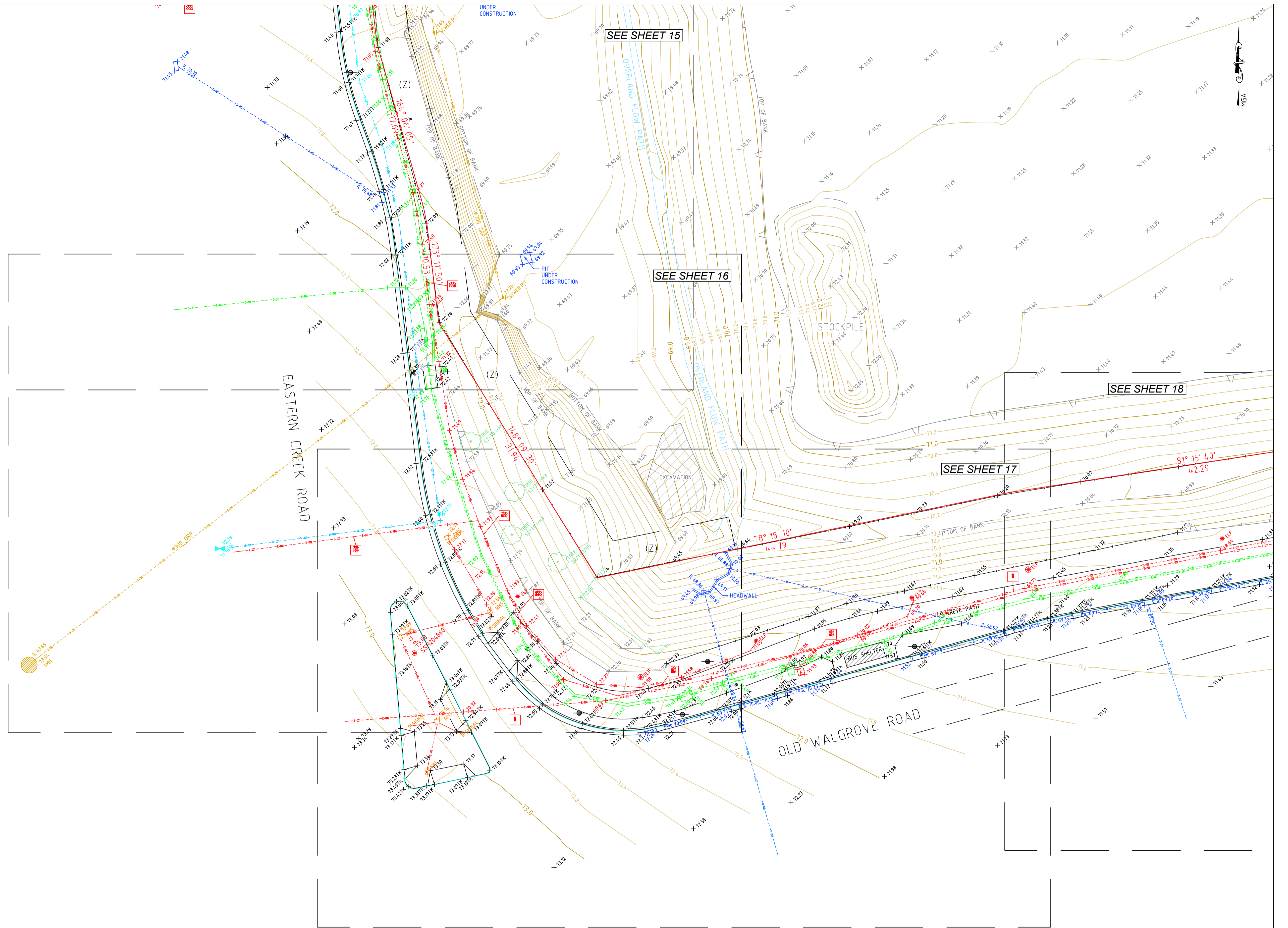
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REV. **A**

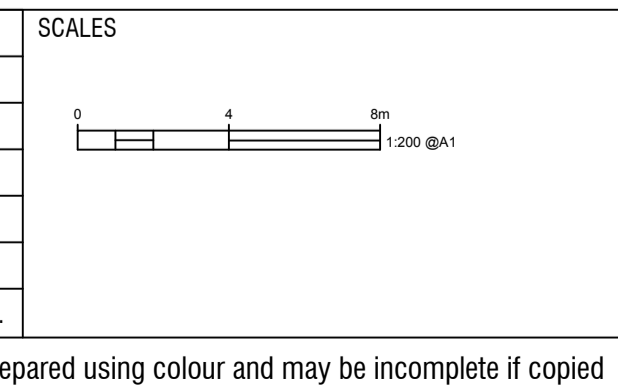
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Plot Date: 26/05/19 - 14:40

100mm AT FULL SIZE



REV.	BY	DATE	DESCRIPTION	APPD.
A	KPU	27/05/2019	FOR INFORMATION	SRA
A1	Original		Co-ordinate System: MGA Zone 56	
			Height Datum: A.H.D.	
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REGISTERED SURVEYORS
CRUX
SURVEYING AUSTRALIA PTY LTD
CONSTRUCTION-CIVIL-CADASTRAL
MARRADNA | NORTH SYDNEY | BRISBANE

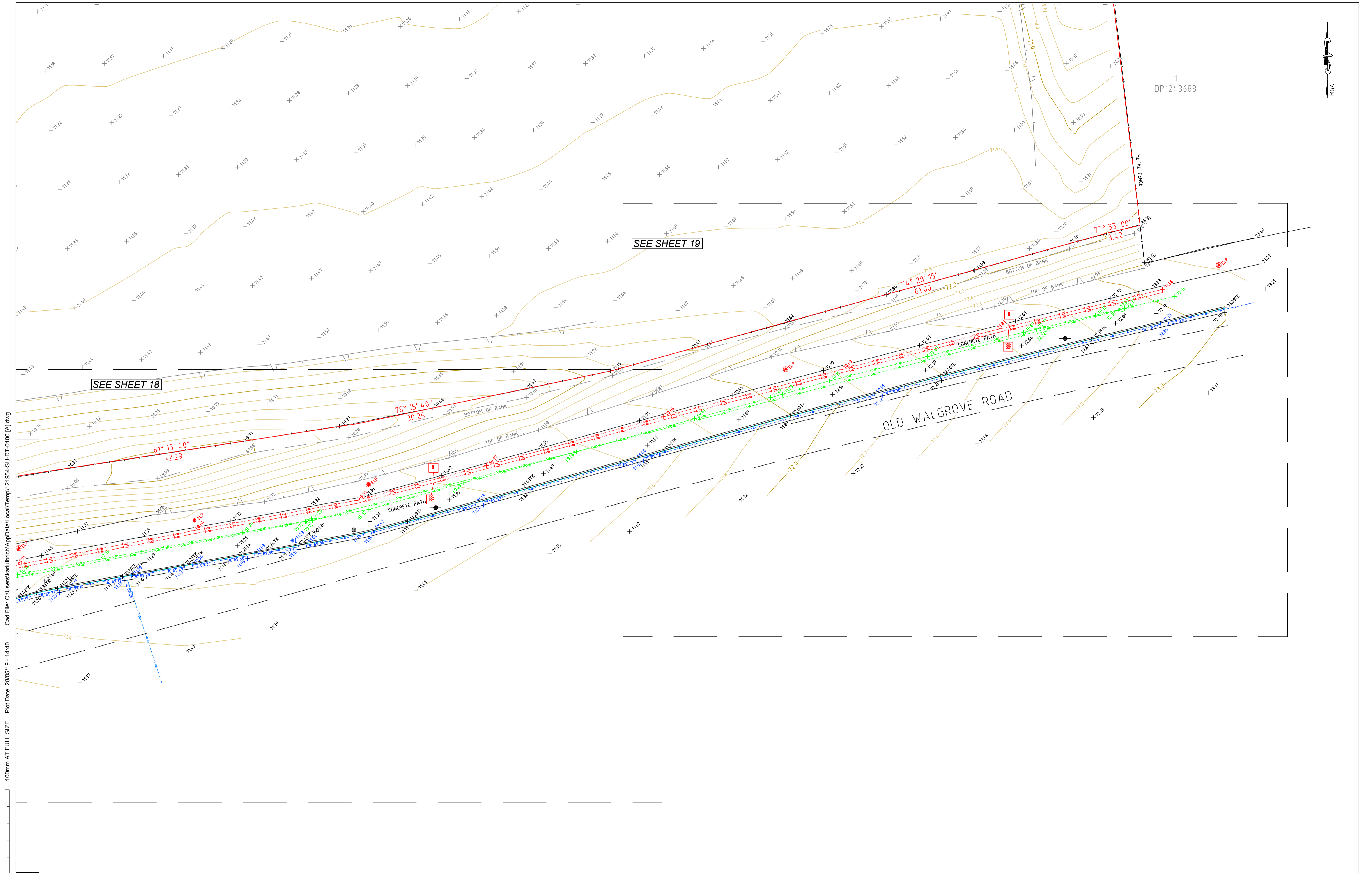
SURVEYED: SRA, DH, BW
DRAWN: SRA, KPU
SURVEY CHECK: SCOTT ALLISON
DRAWING CHECK: KARL ULBRICH
APPROVED: SCOTT ALLISON 27/05/2019

10 EASTERN CREEK DRIVE
EASTERN CREEK, NSW
LOT 4001 DP1243178
TOPOGRAPHIC SURVEY AND SUBSURFACE UTILITY INVESTIGATION

STATUS: FOR INFORMATION SHEET 8 OF 19 ©

CRUX Dig No. 121954-SU-DT-0108 REV. A

100mm AT FULL SIZE Plot Date: 26/05/19 - 14:40 Cad File: C:\Users\karulbrich\AppData\Local\Temp\121954-SU-DT-0100 [A].dwg



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A1	Original		Co-ordinate System: MGA Zone 56	
			Height Datum: A.H.D.	
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REGISTERED SURVEYORS
CRUX
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PTY LTD
CONSTRUCTION - CIVIL - CADASTRAL
MELBOURNE | NORTH SYDNEY | BRISBANE

10 EASTERN CREEK DRIVE
EASTERN CREEK, NSW
LOT 4001 DP1243178
TOPOGRAPHIC SURVEY AND SUBSURFACE UTILITY INVESTIGATION

STATUS: FOR INFORMATION SHEET 9 OF 19 ©

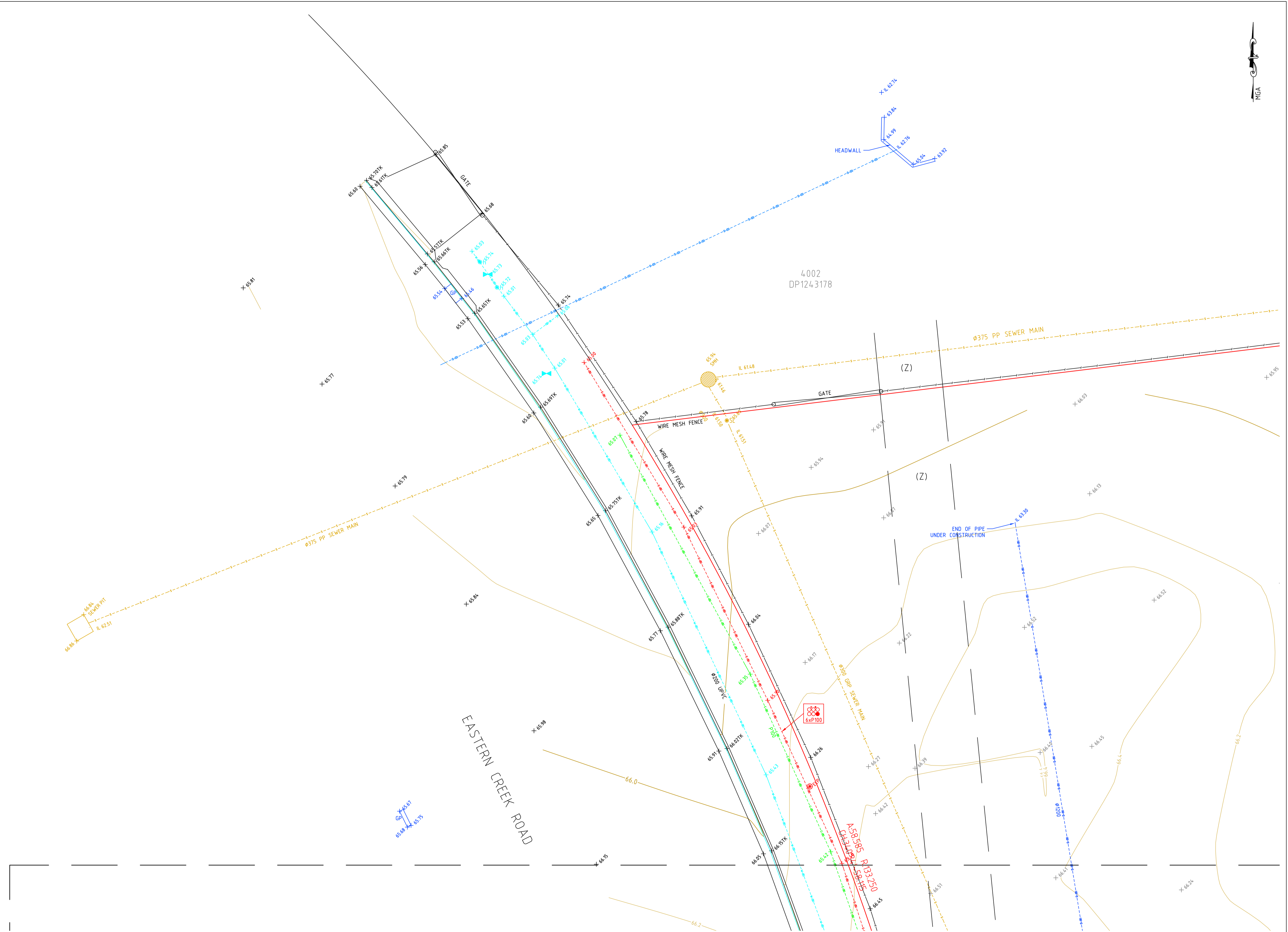
APPROVED: SCOTT ALLISON 27/05/2019
CRUX Dig No. 121954-SU-DT-0109 REV. A

100mm AT FULL SIZE

Cad File: C:\Users\karulbrich\AppData\Local\Temp\121954-SU-DT-0100 [A].dwg

Plot Date: 28/05/19 - 14:40

100mm AT FULL SIZE



REV.	BY	DATE	DESCRIPTION	APPD.
A	KPU	27/05/2019	FOR INFORMATION	SRA
A1	Original		Co-ordinate System: MGA Zone 56	
			Height Datum: A.H.D.	
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SCALES

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REGISTERED SURVEYORS

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MELBOURNE | NORTH SYDNEY | BRISBANE

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SURVEYED	SRA, DH, BW
DRAWN	SRA, KPU
SURVEY CHECK	SCOTT ALLISON
DRAWING CHECK	KARL ULBRICH
APPROVED	SCOTT ALLISON
	27/05/2019

10 EASTERN CREEK DRIVE

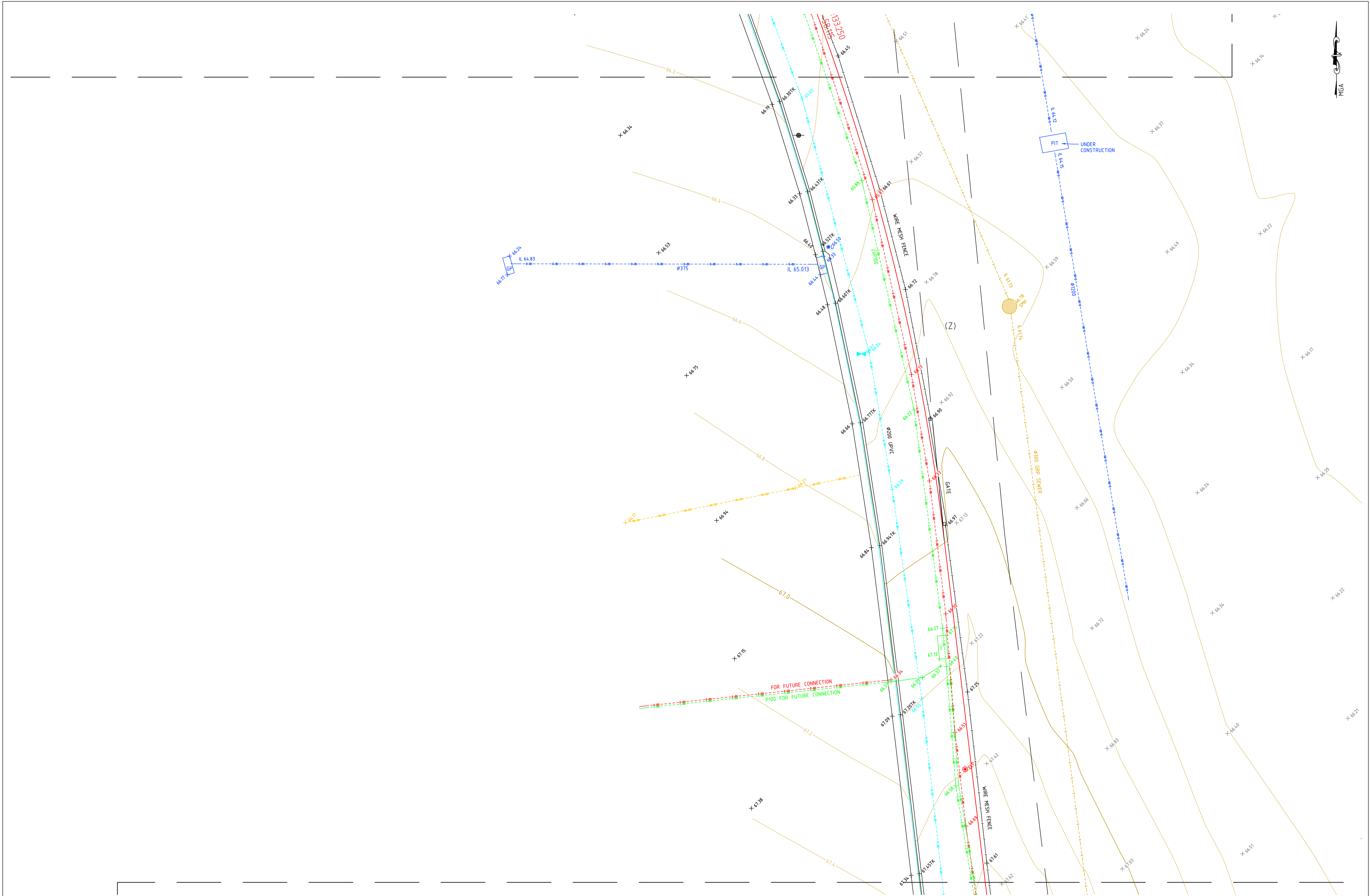
EASTERN CREEK, NSW
LOT 4001 DP1243178
TOPOGRAPHIC SURVEY AND SUBSURFACE UTILITY INVESTIGATION

STATUS: FOR INFORMATION

SHEET 10 OF 19

CRUX Dwg No. 121954-SU-DT-0110

REV. **A**



REV.	BY	DATE	DESCRIPTION	APPD.
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This sheet may be prepared using colour and may be incomplete if copied				

SCALES

NOTES:
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REGISTERED SURVEYORS

CRUX
SURVEYING AUSTRALIA
PTY LTD
CONSTRUCTION-CIVIL-CADASTRAL
MELBOURNE | NORTH SYDNEY | BRISBANE

SURVEYED	SRA, DH, BW
DRAWN	SRA, KPU
SURVEY CHECK	SCOTT ALLISON
DRAWING CHECK	KARL ULBRICH
APPROVED	SCOTT ALLISON
	27/05/2019

10 EASTERN CREEK DRIVE

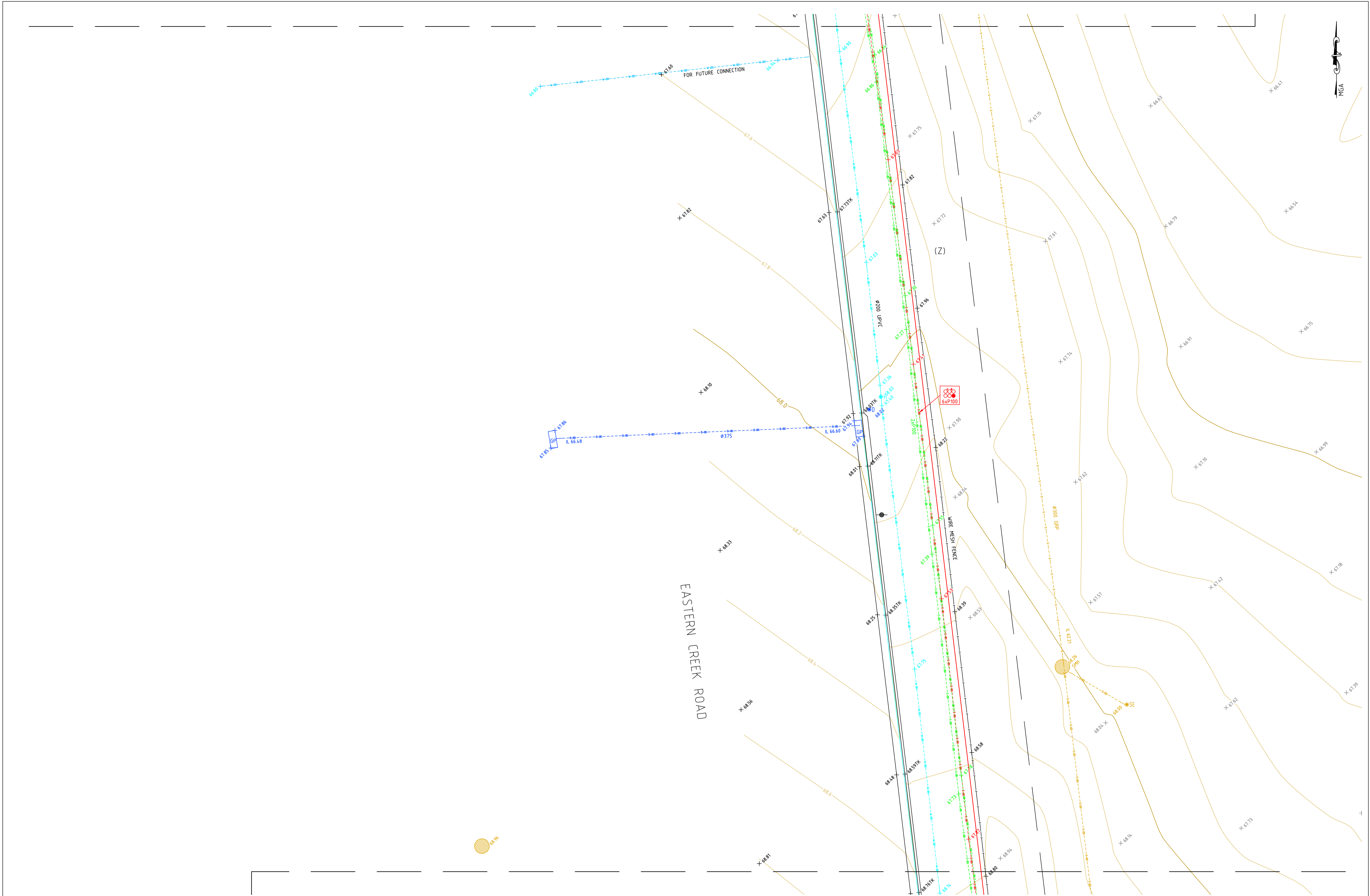
EASTERN CREEK, NSW
LOT 4001 DP1243178
TOPOGRAPHIC SURVEY AND SUBSURFACE UTILITY INVESTIGATION

STATUS: FOR INFORMATION

SHEET 11 OF 19

CRUX Dwg No. 121954-SU-DT-0111

REV. **A**



REV.	BY	DATE	DESCRIPTION	APPD.
A	KPU	27/05/2019	FOR INFORMATION	SRA
A1	Original		Co-ordinate System: MGA Zone 56	
			Height Datum: A.H.D.	
			This sheet may be prepared using colour and may be incomplete if copied	

SCALES

NOTES:
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CRUX
SURVEYING AUSTRALIA
PTY LTD
CONSTRUCTION-CIVIL-CADASTRAL
MELBOURNE | NORTH SYDNEY | BRISBANE

SURVEYED	SRA, DH, BW
DRAWN	SRA, KPU
SURVEY CHECK	SCOTT ALLISON
DRAWING CHECK	KARL ULBRICH
APPROVED	SCOTT ALLISON
	27/05/2019

10 EASTERN CREEK DRIVE

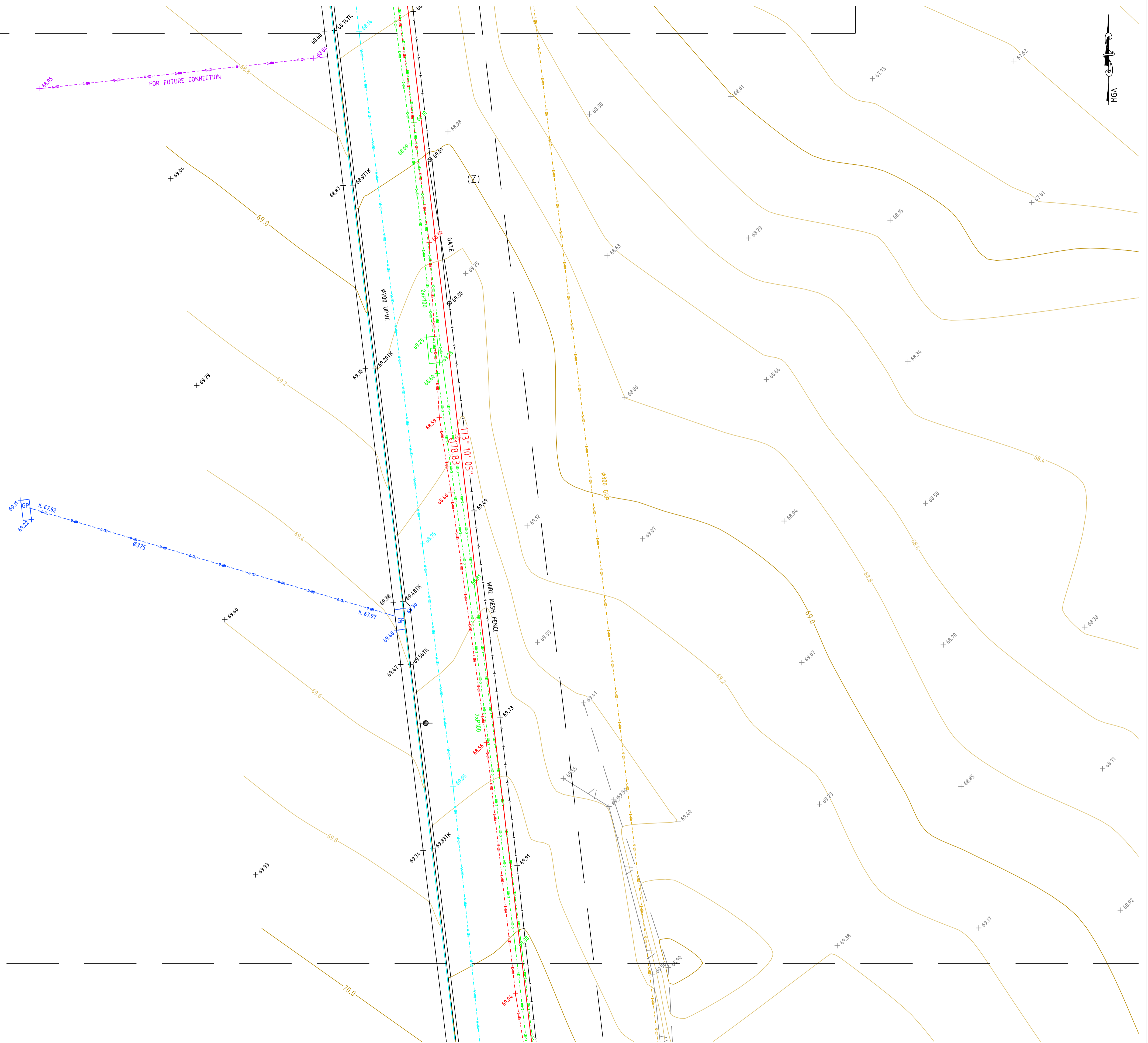
EASTERN CREEK, NSW
LOT 4001 DP1243178
TOPOGRAPHIC SURVEY AND SUBSURFACE UTILITY INVESTIGATION

STATUS: FOR INFORMATION

SHEET 12 OF 19

CRUX Dig No. 121954-SU-DT-0112

REV. **A**



REV.	BY	DATE	DESCRIPTION	APPD.
A	KPU	27/05/2019	FOR INFORMATION	SRA
A1	Original		Co-ordinate System: MGA Zone 56	
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This sheet may be prepared using colour and may be incomplete if copied				

NOTES :
FOR DETAIL NOTES AND LEGEND SEE SHEET 1

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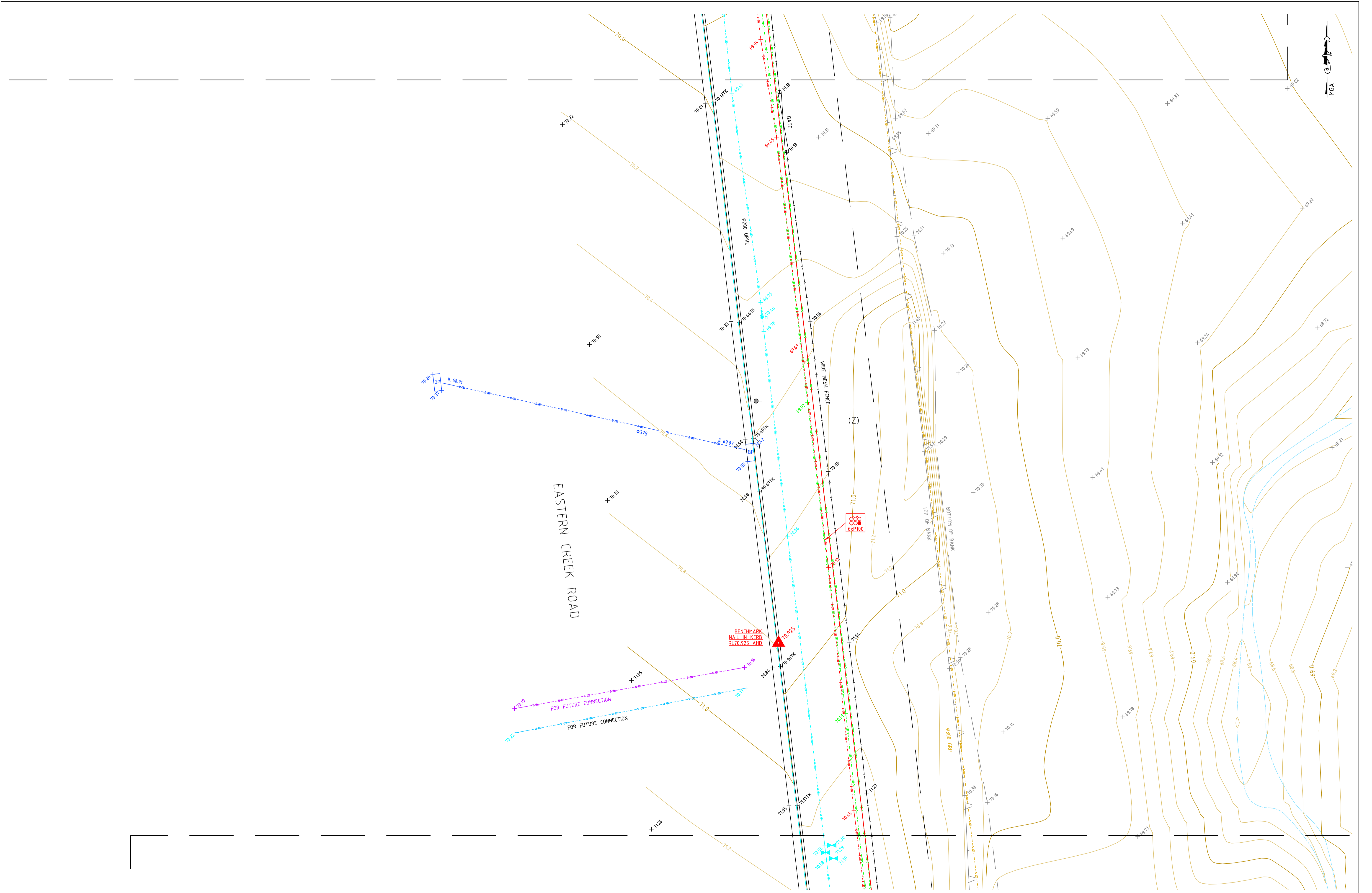
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REGISTERED SURVEYORS
CRUX
SURVEYING AUSTRALIA
PTY LTD
CONSTRUCTION - CIVIL - CADASTRAL
MARRADGA - NORTH SYDNEY - BRISBANE

SURVEYED: SRA, DH, BW
DRAWN: SRA, KPU
SURVEY CHECK: SCOTT ALLISON
DRAWING CHECK: KARL ULBRICH
APPROVED: SCOTT ALLISON 27/05/2019

10 EASTERN CREEK DRIVE
EASTERN CREEK, NSW
LOT 4001 DP1243178
TOPOGRAPHIC SURVEY AND SUBSURFACE UTILITY INVESTIGATION

STATUS: FOR INFORMATION
SHEET 13 OF 19
CRUX Dwg No. 121954-SU-DT-0113



REV.	BY	DATE	DESCRIPTION	APPD.
A	KPU	27/05/2019	FOR INFORMATION	SRA
A1	Original		Co-ordinate System: MGA Zone 56	
			Height Datum: A.H.D.	
			This sheet may be prepared using colour and may be incomplete if copied	

SCALES

0 2 4m
1:100 @A1

NOTES:
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REGISTERED SURVEYORS

CRUX
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PTY LTD
CONSTRUCTION-CIVIL-CADASTRAL
MARRADRA - NORTH SYDNEY - BRISBANE

SURVEYED: SRA, DH, BW
DRAWN: SRA, KPU
SURVEY CHECK: SCOTT ALLISON
DRAWING CHECK: KARL ULBRICH
APPROVED: SCOTT ALLISON 27/05/2019

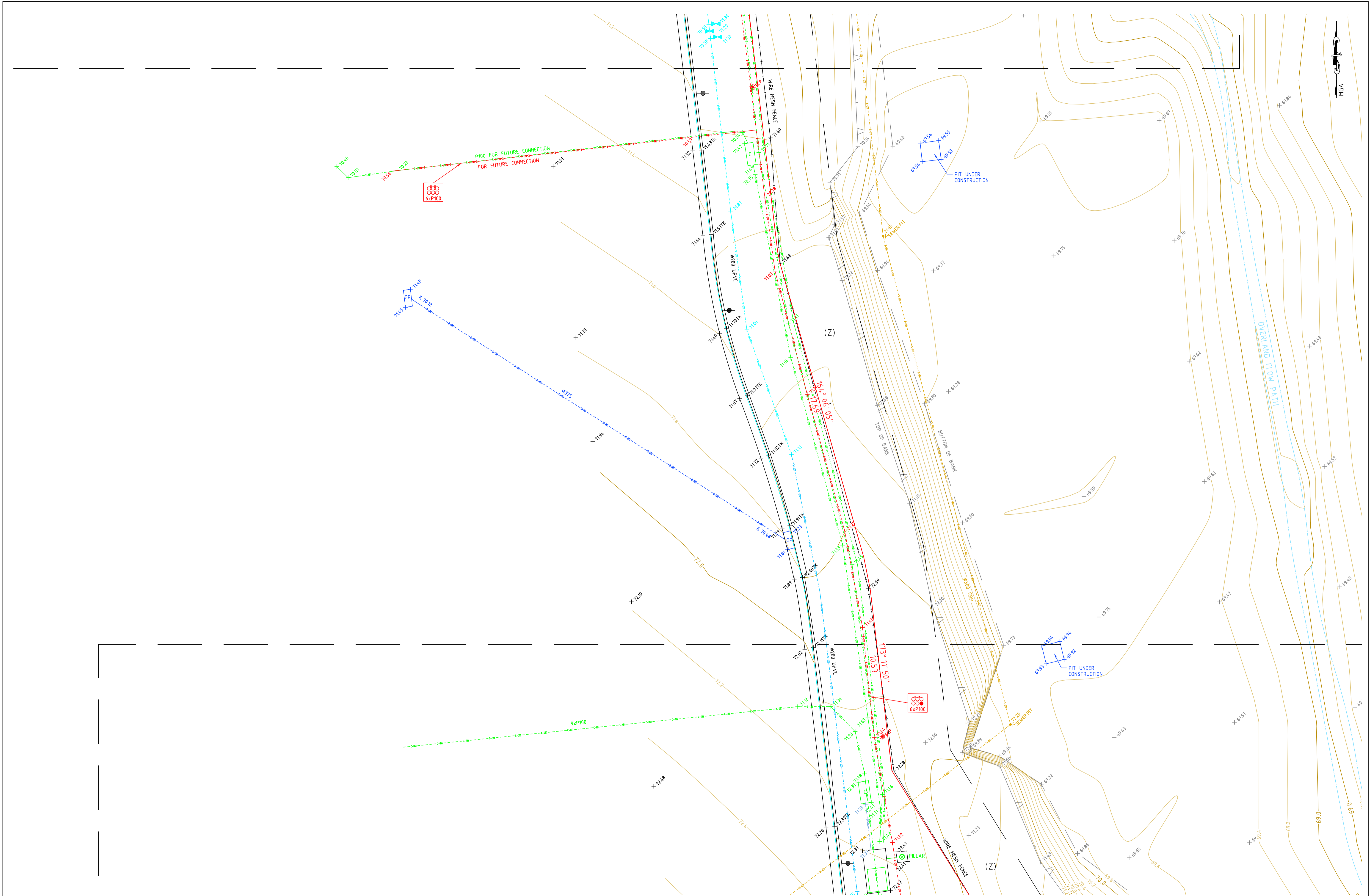
10 EASTERN CREEK DRIVE

EASTERN CREEK, NSW
LOT 4001 DP1243178
TOPOGRAPHIC SURVEY AND SUBSURFACE UTILITY INVESTIGATION

STATUS: FOR INFORMATION SHEET 14 OF 19

CRUX Dwg No. 121954-SU-DT-0114

REV. **A**



REV.	BY	DATE	DESCRIPTION	APPD.
A	KPU	27/05/2019	FOR INFORMATION	SRA
A1	Original		Co-ordinate System: MGA Zone 56	
			Height Datum: A.H.D.	
This sheet may be prepared using colour and may be incomplete if copied				

SCALES

0 2 4m
1:100 @A1

NOTES :
FOR DETAIL NOTES AND LEGEND SEE SHEET 1

CLIENT

ARUP

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REGISTERED SURVEYORS

CRUX
SURVEYING AUSTRALIA
PTY LTD
CONSTRUCTION-CIVIL-CADASTRAL
MARRADRA - NORTH SYDNEY - BRISBANE

SURVEYED: SRA, DH, BW
DRAWN: SRA, KPU
SURVEY CHECK: SCOTT ALLISON
DRAWING CHECK: KARL ULBRICH
APPROVED: SCOTT ALLISON 27/05/2019

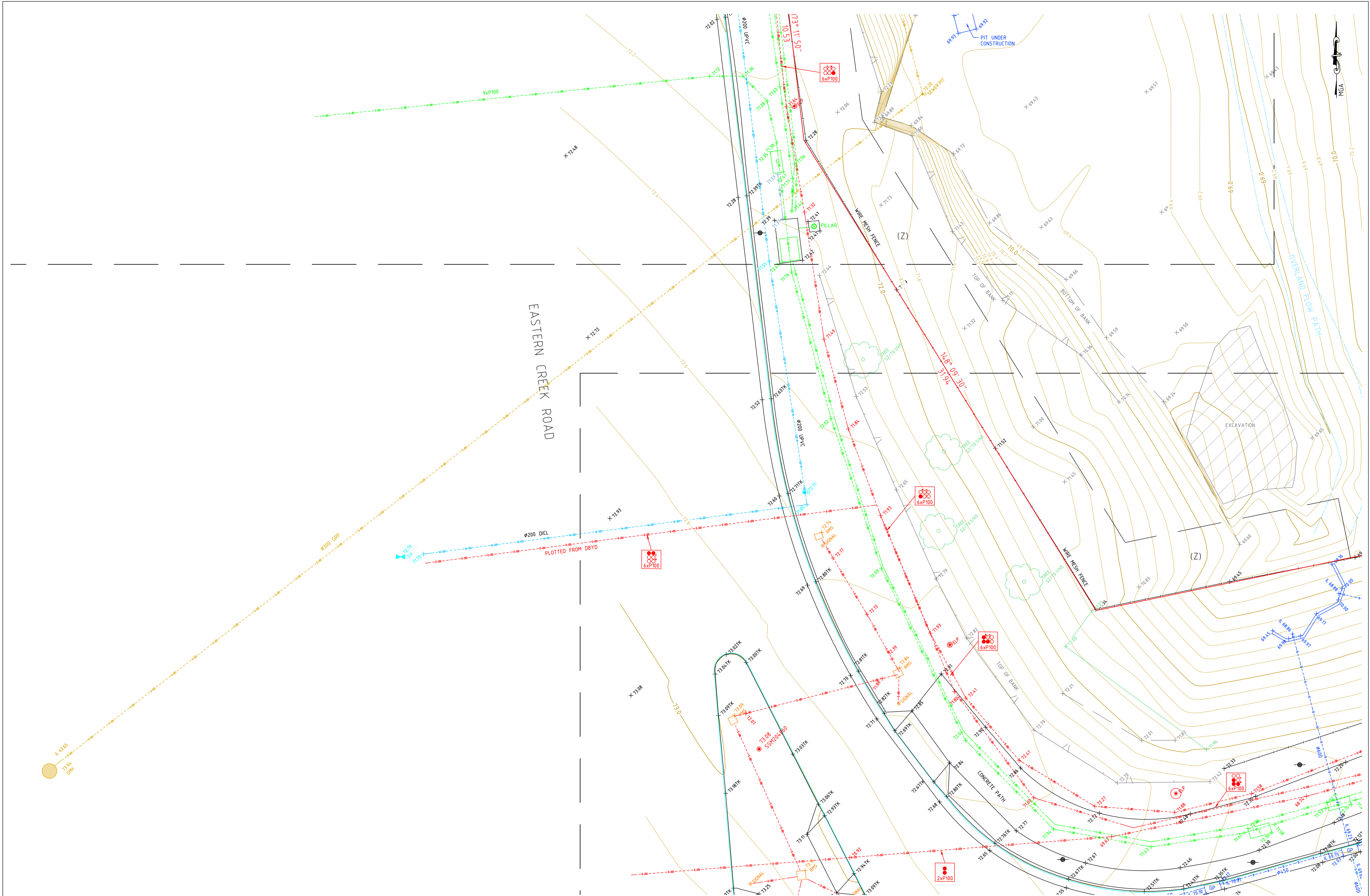
10 EASTERN CREEK DRIVE

EASTERN CREEK, NSW
LOT 4001 DP1243178
TOPOGRAPHIC SURVEY AND SUBSURFACE UTILITY INVESTIGATION

STATUS: FOR INFORMATION SHEET 15 OF 19

CRUX Dwg No. 121954-SU-DT-0115

REV. **A**



REV.	BY	DATE	DESCRIPTION	APPD.
A	KPU	27/05/2019	FOR INFORMATION	SRA
A1	Original		Co-ordinate System: MGA Zone 56	
			Height Datum: A.H.D.	
			This sheet may be prepared using colour and may be incomplete if copied	

NOTES:
FOR DETAIL NOTES AND LEGEND SEE SHEET 1

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REGISTERED SURVEYORS

CRUX SURVEYING AUSTRALIA PTY LTD
CONSTRUCTION-CIVIL-CADASTRAL
MELBOURNE | NORTH SYDNEY | BRISBANE

SURVEYED: SRA, DH, BW
 DRAWN: SRA, KPU
 SURVEY CHECK: SCOTT ALLISON
 DRAWING CHECK: KARL ULBRICH
 APPROVED: SCOTT ALLISON 27/05/2019

10 EASTERN CREEK DRIVE

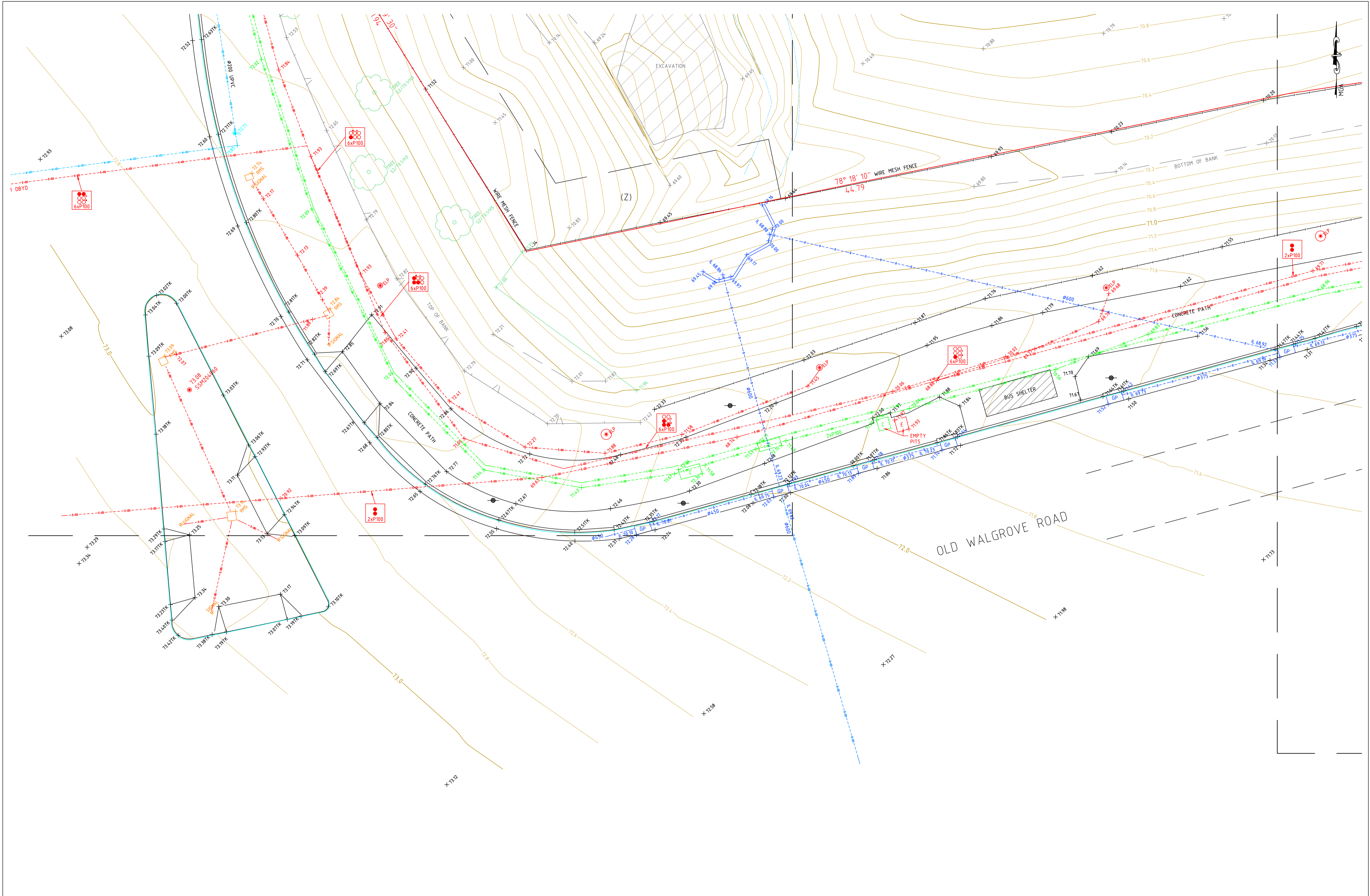
EASTERN CREEK, NSW
LOT 4001 DP1243178
TOPOGRAPHIC SURVEY AND SUBSURFACE UTILITY INVESTIGATION

STATUS: FOR INFORMATION

SHEET 16 OF 19

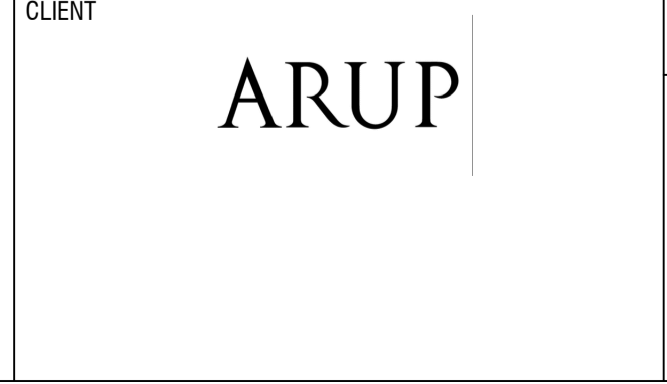
CRUX Dig No. 121954-SU-DT-0116

REV. A



REV.	BY	DATE	DESCRIPTION	APPD.
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A1	Original		Co-ordinate System: MGA Zone 56	
			Height Datum: A.H.D.	
This sheet may be prepared using colour and may be incomplete if copied				

NOTES:
FOR DETAIL NOTES AND LEGEND SEE SHEET 1



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REGISTERED SURVEYORS
CRUX
SURVEYING AUSTRALIA
CONSTRUCTION - CIVIL - CADASTRAL
MELBOURNE | NORTH SYDNEY | BRISBANE

SURVEYED: SRA, DH, BW
DRAWN: SRA, KPU
SURVEY CHECK: SCOTT ALLISON
DRAWING CHECK: KARL ULBRICH
APPROVED: SCOTT ALLISON 27/05/2019

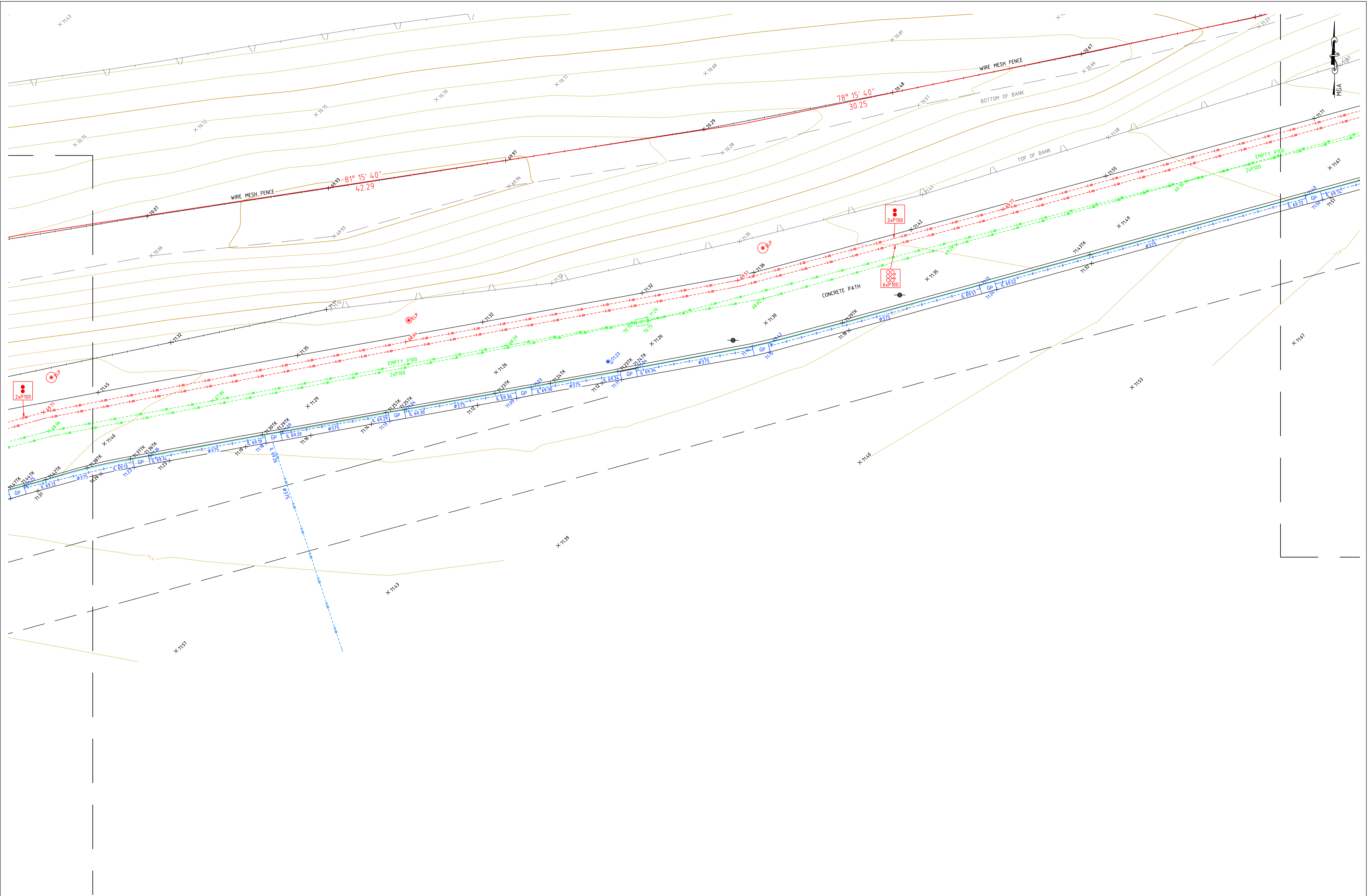
10 EASTERN CREEK DRIVE
EASTERN CREEK, NSW
LOT 4001 DP1243178
TOPOGRAPHIC SURVEY AND SUBSURFACE UTILITY INVESTIGATION

STATUS: FOR INFORMATION
SHEET 17 OF 19
CRUX Orig No. 121954-SU-DT-0117

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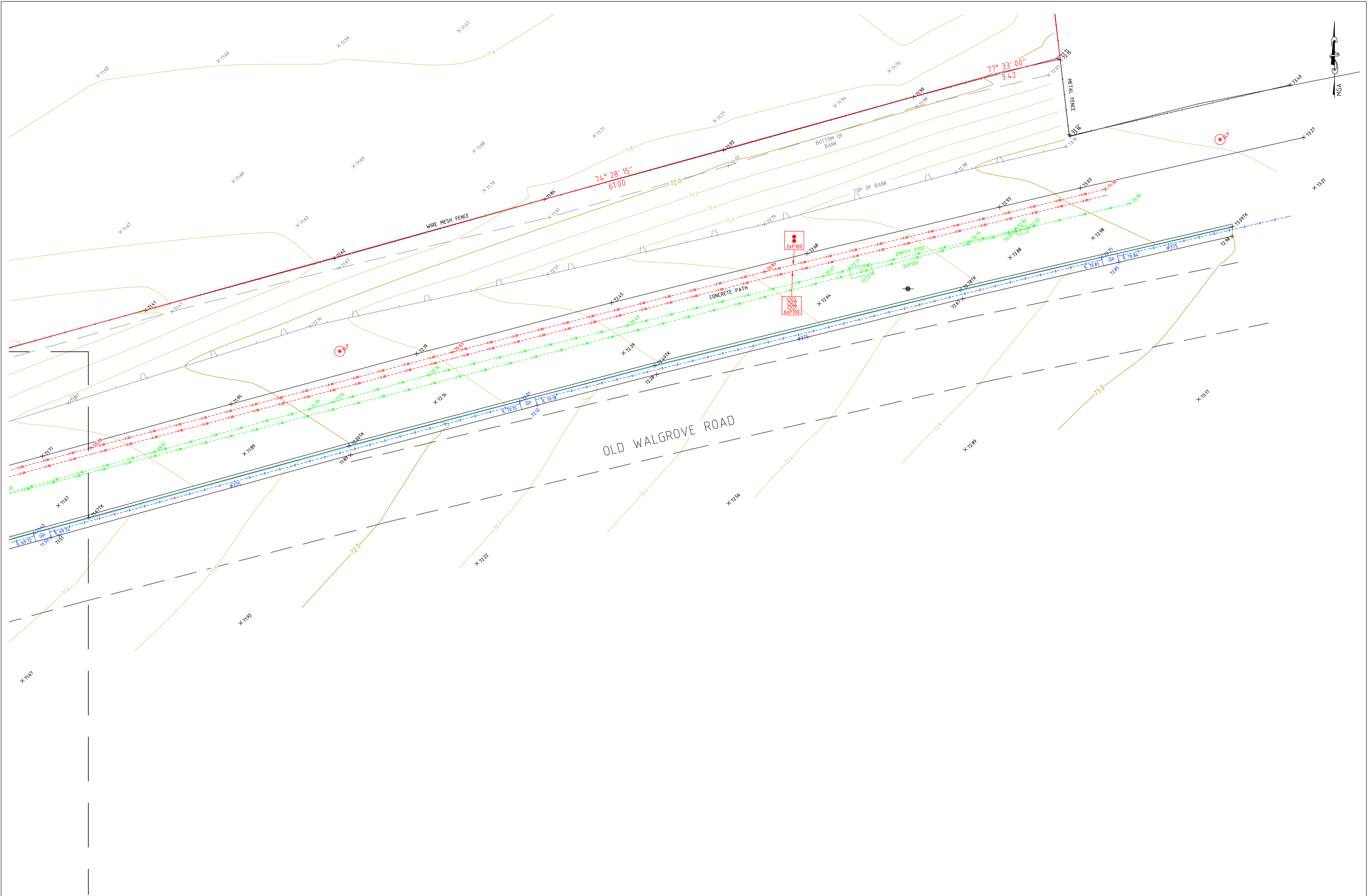
100mm AT FULL SIZE



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Plot Date: 26/05/19 - 14:41

100mm AT FULL SIZE



REV.	BY	DATE	DESCRIPTION	APPD.
A	KPU	27/05/2019	FOR INFORMATION	SRA
A1	Original		Co-ordinate System: MGA Zone 56	
			Height Datum: A.H.D.	
This sheet may be prepared using colour and may be incomplete if copied				

NOTES:
FOR DETAIL NOTES AND LEGEND SEE SHEET 1

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REGISTERED SURVEYORS
CRUX
SURVEYING AUSTRALIA
CONSTRUCTION-CIVIL-CADASTRAL
SYDNEY | NORTH SYDNEY | BRISBANE

SURVEYED	SRA, DH, BW
DRAWN	SRA, KPU
SURVEY CHECK	SCOTT ALLISON
DRAWING CHECK	KARL ULBRICH
APPROVED	SCOTT ALLISON 27/05/2019

10 EASTERN CREEK DRIVE
EASTERN CREEK, NSW
LOT 4001 DP1243178
TOPOGRAPHIC SURVEY AND SUBSURFACE UTILITY INVESTIGATION

STATUS: FOR INFORMATION

SHEET 19 OF 19

CRUX Dwg No. 121954-SU-DT-0119

REV. **A**