

- LEGEND**
- DENOTES GAS SERVICE UNDERGROUND
 - DENOTES STOP VALVE [GAS]
 - DENOTES ELEC SERVICE UNDERGROUND
 - *ELLIP DENOTES ELEC LIGHT POLE
 - *ELPL DENOTES ELEC POLE WITH LIGHT
 - DENOTES FIBRE OPTIC CABLE UNDERGROUND
 - DENOTES COMMS PIT
 - DENOTES COMMS PIT
 - DENOTES TAP
 - DENOTES WATER METER
 - DENOTES WATER SERVICE UNDERGROUND
 - DENOTES WATER PIT
 - DENOTES HYDRANT
 - DENOTES DOWNPIPE
 - DENOTES GRATED DRAINAGE PIT
 - DENOTES DRAINAGE SERVICE UNDERGROUND
 - DENOTES STRIP DRAIN
 - IL DENOTES INVERT LEVEL
 - Ø DENOTES DIAMETER
 - IP DENOTES SEWER INSPECTION OPENING
 - UN DENOTES UNIDENTIFIED PIT
 - TW DENOTES TOP OF WALL
 - RL DENOTES REDUCED LEVEL
 - DENOTES SIGN
 - FL DENOTES FLOOR LEVEL
 - U/S DENOTES UNDERSIDE
 - DENOTES FENCELINE
 - DENOTES GATE
 - H DENOTES WINDOW HEAD
 - S DENOTES WINDOW SILL
 - GF DENOTES GROUND FLOOR
 - L1 DENOTES LEVEL ONE
 - Δ DENOTES BENCHMARK
 - [A] DENOTES QUALITY A (AS5488-2013 CLASSIFICATION OF SUBSURFACE UTILITY INFORMATION)
 - [B] DENOTES QUALITY B (AS5488-2013 CLASSIFICATION OF SUBSURFACE UTILITY INFORMATION)
 - [D] DENOTES QUALITY D (AS5488-2013 CLASSIFICATION OF SUBSURFACE UTILITY INFORMATION)
 - DENOTES TREE
 - H DENOTES HEIGHT
 - S DENOTES SPREAD
 - RTW DENOTES RETAINING WALL

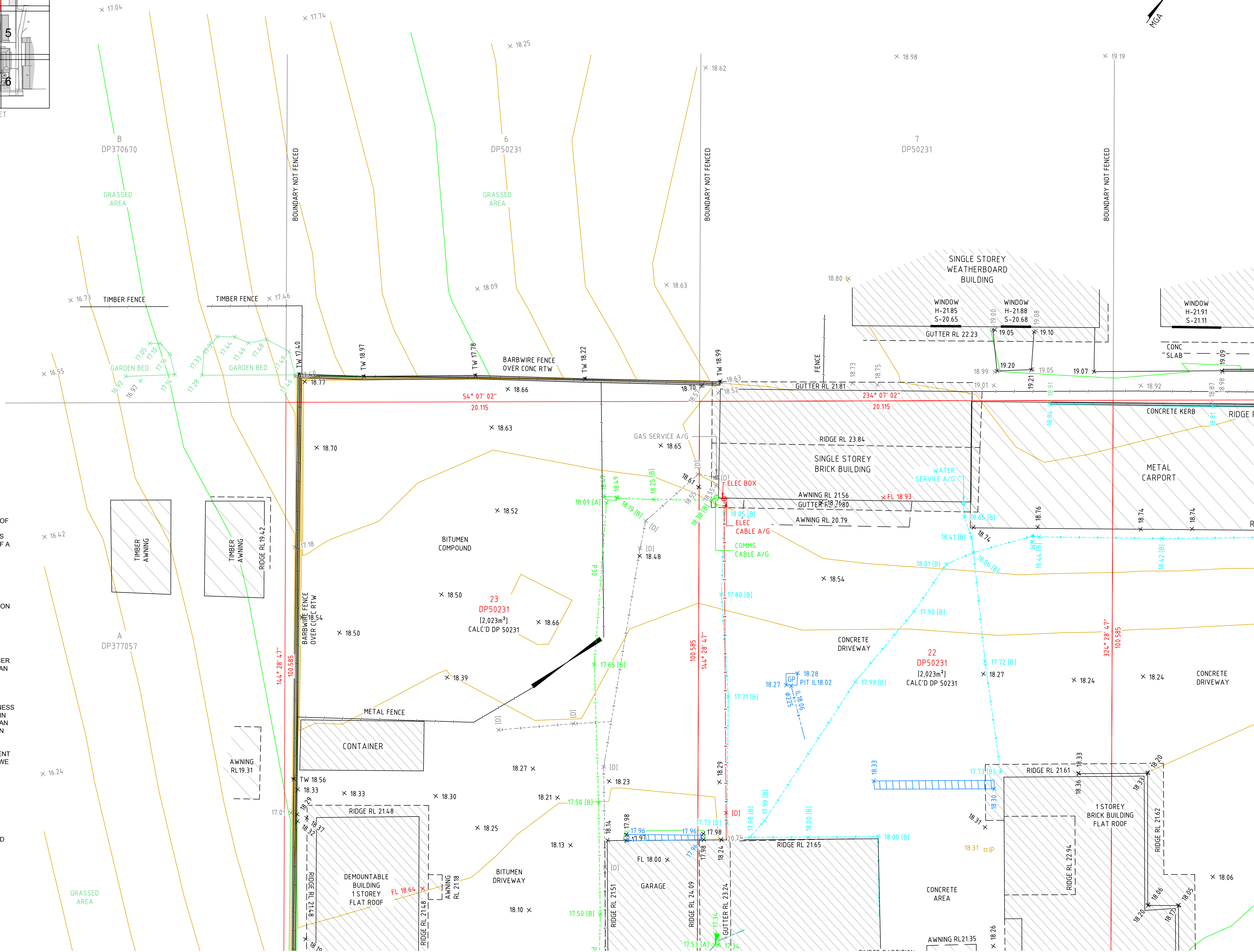
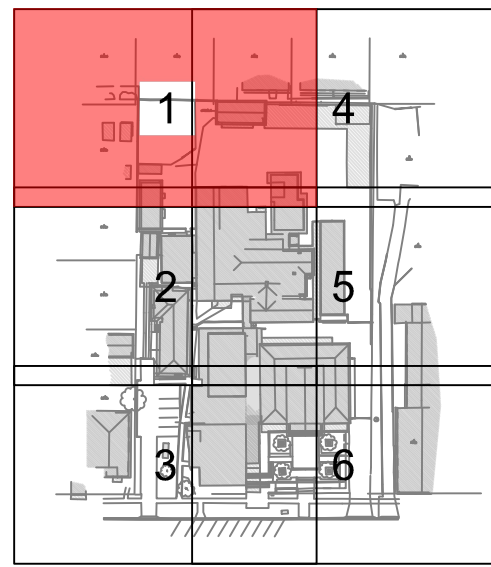
NOTES

- ORIGIN OF LEVELS : PM 13774, RL 6.574 (A.H.D.),
EASTING - 448792.672
NORTHING - 6469122.803
- BEARINGS ARE ON MGA NORTH. AZIMUTH PM 13774 TO PM 13697. MGA INFORMATION SUPPLIED BY S.C.I.M.S. DATED 02/02/2018.
- BOUNDARIES ARE APPROXIMATE ONLY AND ARE FOR VISUAL PURPOSES ONLY. SURVEY DEFINITION OF BOUNDARIES ALONG ALBERT STREET BETWEEN PULTENEY ST & COMMERCE ST HAS FOUND SHORTFALL DISCREPANCY OF APPROXIMATELY 680mm BETWEEN THE TITLE DIMENSION BOUNDARIES AND THE BOUNDARIES MEASURED. BOUNDARIES SHOULD BE CONFIRMED VIA THE REGISTRATION OF A PLAN OF REDEFINITION WITH THE LPI.
- CONTOURS ARE AN INDICATION OF THE TOPOGRAPHY ONLY. SPOT LEVELS SHOULD BE USED IF DETAILED DESIGN IS TO BE UNDERTAKEN.
CONTOUR INTERVAL: 0.2 MINOR / 1.0 MAJOR
- SERVICE LOCATING HAS BEEN CARRIED OUT BY CRUX. THE LOCATING ACCURACY IS DEPENDANT UPON THE PIPE/CABLE TYPE, ITS DEPTH, AND THE PREVAILING SOIL TYPE. IN MOST SITUATIONS THE PLAN POSITION WILL BE ACCURATE TO WITHIN +/- 300mm, AND THE DEPTH TO WITHIN +/- 500mm AS PER AUSTRALIAN STANDARD AS5488. SIGNIFICANT OUTLIERS DO OCCUR, IN PARTICULAR FOR DEPTH MEASUREMENTS.
- ELECTROMAGNETIC (EM) LOCATION CAN ONLY ACCURATELY TRACK METALLIC PIPES. PLASTIC, CONCRETE, ASBESTOS OR EARTHEN-WARE PIPES CANNOT BE TRACKED UNLESS THEY HAVE A TRACER WIRE ATTACHED TO THEM. EVEN IF A TRACER WIRE IS ATTACHED, THE ACCURACY OF THE TRACE CAN BE LIMITED, AS THE SIGNAL TENDS TO "JUMP" TO BETTER CONDUCTORS IF THEY ARE IN CLOSE PROXIMITY. IT CAN BE DIFFICULT TO TRACK PIPES AND CABLES UNDER HEAVILY REINFORCED CONCRETE SLABS AS THE SIGNAL TENDS TO "JUMP" ONTO THE REBAR.
- GROUND PENETRATING RADAR (GPR) LOCATING CAN TRACK NON METALLIC PIPES. THE EFFECTIVENESS OF GPR LOCATING IS HIGHLY DEPENDENT UPON THE SOIL TYPE. IT IS GENERALLY VERY EFFECTIVE IN SANDY SOILS, BUT CAN HAVE LIMITED EFFECTIVENESS IN VERY HEAVY CLAY SOILS. GPR SIGNALS CAN FAIL TO PENETRATE THROUGH REINFORCED CONCRETE SLABS. HIGHLY SALINE ENVIRONMENTS CAN ALSO AFFECT SIGNAL PENETRATION
- EXPERIENCE AROUND THE WORLD HAS SHOWN THAT THE "BEST PRACTICE" USING EM/GPR EQUIPMENT IN COMBINATION SHOULD RESULT IN DETECTION RATES OF 80-95%. WE CANNOT GUARANTEE THAT WE WILL LOCATE ALL MAINS/SERVICES ON A JOB SITE.
- ELEVATIONS SHOWN ARE GIVEN TO THE TOP OF PIPE/CABLE UNLESS OTHERWISE STATED
- NO POT HOLING HAS BEEN UNDERTAKEN
- RIDGE, PARAPET & GUTTER HEIGHTS HAVE BEEN OBTAINED BY AN INDIRECT METHOD AND ARE ACCURATE FOR PLANNING PURPOSES ONLY.
- ADJOINING BUILDINGS & DWELLINGS HAVE BEEN PLOTTED FOR DIAGRAMMATIC PURPOSES ONLY AND SPECIFIC DETAILS, IF CRITICAL, WILL REQUIRE FURTHER SURVEY.
- TREES ARE NOT DRAWN TO SCALE. THE SPREAD, DIAMETER & HEIGHT OF EACH TREE IS INDICATIVE ONLY AND SPECIFIC DETAILS, IF CRITICAL, WILL REQUIRE FURTHER SURVEY.
- THE MGA NORTH POINT SHOWN IS APPROXIMATE ONLY.

DATE OF SURVEY: 28/02/2018

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

SHEET LAYOUT (NTS)



REV.	BY	DATE	DESCRIPTION	APPD.
A1	Original		Co-ordinate System: MGA Zone 56	
			Height Datum: A.H.D.	
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SCALES	
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CLIENT

GROUP GSA

REGISTERED SURVEYORS

CRUX
SURVEYING
AUSTRALIA
PTY LTD
CONSULTANTS-CIVIL-ENVIRONMENTAL
ENGINEERS-1 SURVEY-PROPERTY-1

SURVEYED	MITCHELL JONES
DRAWN	BEN PARKINSON
SURVEY CHECK	NATHAN GREEN
DRAWING CHECK	KARL ULBRICH
APPROVED	MARK SUMMERS
	23/03/2018

TAREE POLICE STATION

79 ALBERT STREET, TAREE
TOPOGRAPHIC SURVEY
PLAN SHOWING DETAIL & LEVELS

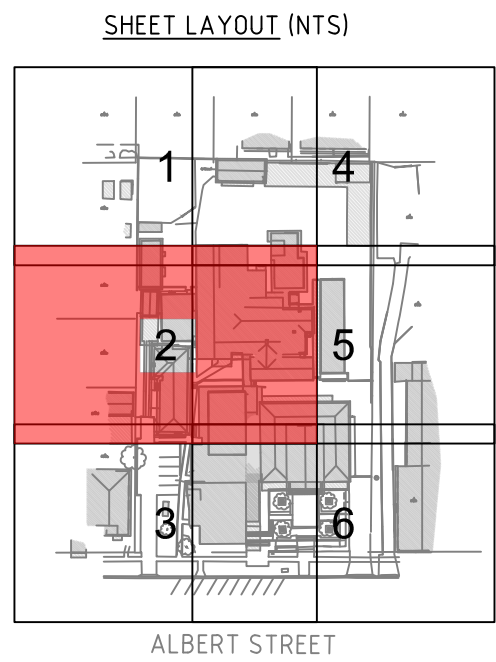
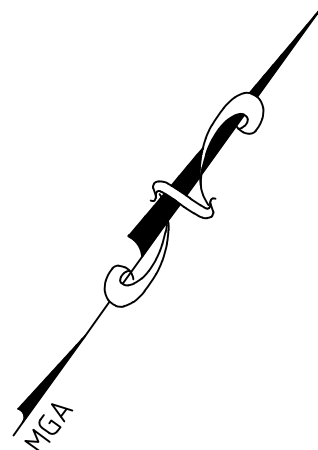
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CRUX Drg No. 121187-SU-DT-001

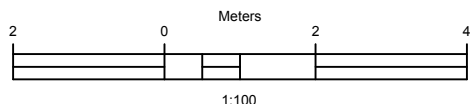
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REV. C



SCALES



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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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GROUPGSA

REGISTERED SURVEYORS

CRUX
SURVEYING
AUSTRALIA

SURVEYED MITCHELL JONES
DRAWN BEN PARKINSON
SURVEY CHECK NATHAN GREEN
DRAWING CHECK KARL ULBRICH
APPROVED MARK SUMMERS

23/03/2018

TAREE POLICE STATION

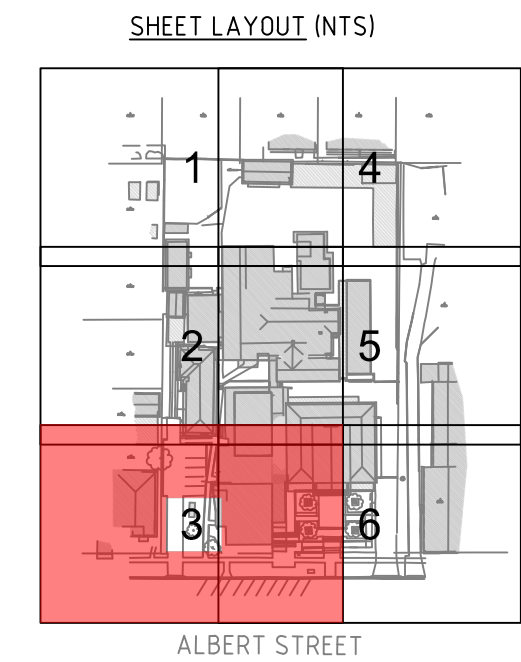
79 ALBERT STREET, TAREE
TOPOGRAPHIC SURVEY
PLAN SHOWING DETAIL & LEVELS

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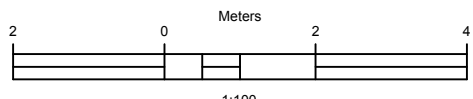
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CRUX Drg No. 121187-SU-DT-001

REV. C



SCALES



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GROUPGSA

REGISTERED SURVEYORS	
SURVEYED	MITCHELL JONES
DRAWN	BEN PARKINSON
SURVEY CHECK	NATHAN GREEN
DRAWING CHECK	KARL ULBRICH
APPROVED	MARK SUMMERS
23/03/2018	

TAREE POLICE STATION

79 ALBERT STREET, TAREE
TOPOGRAPHIC SURVEY
PLAN SHOWING DETAIL & LEVELS

STATUS: FOR INFORMATION

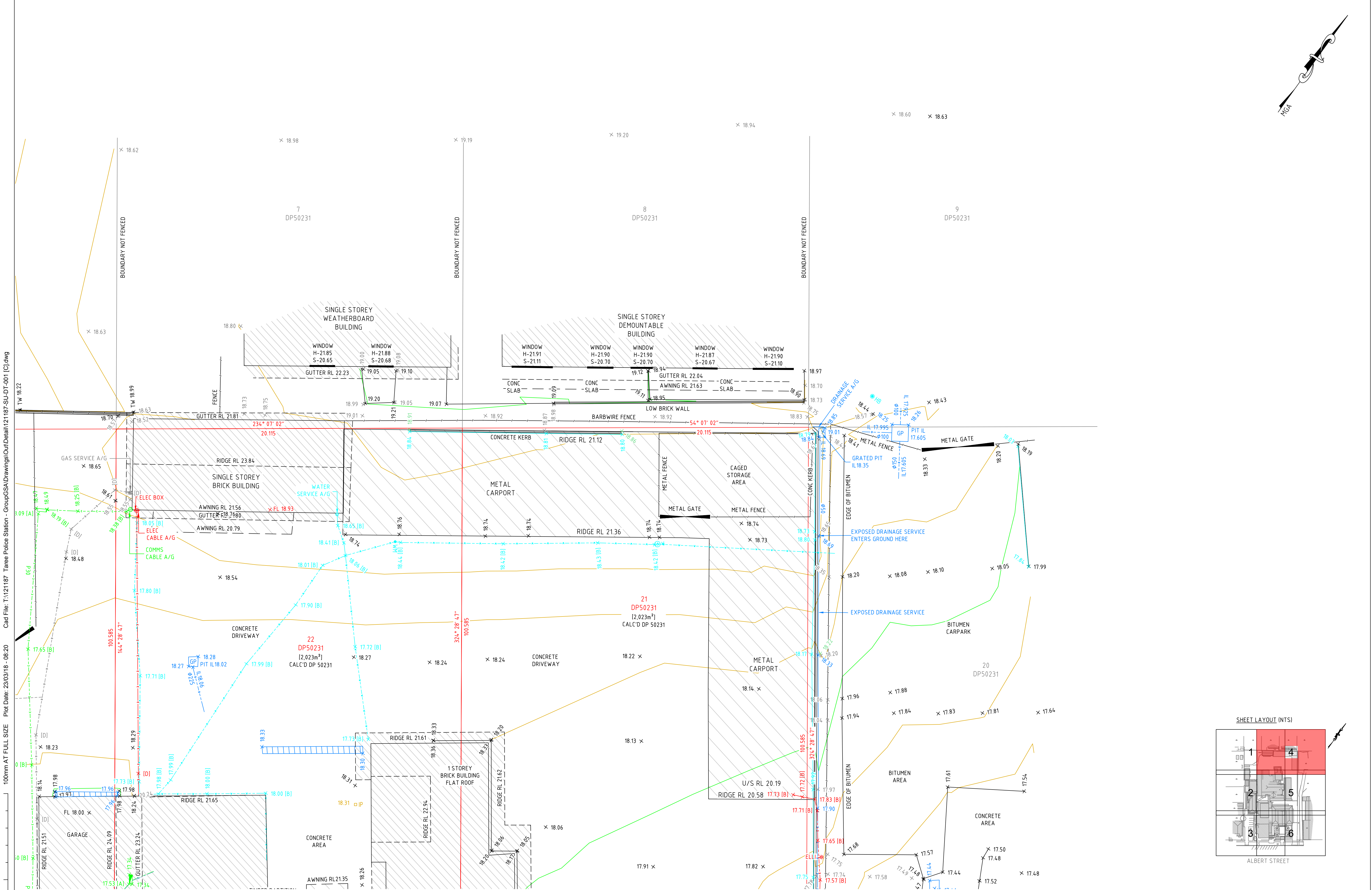
SHEET 3 OF 6

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CRUX Drg No. 121187-SU-DT-001

REV. C

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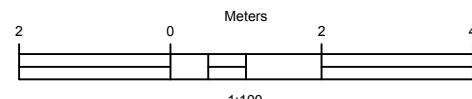
CLIENT
GROUP GSA
REGISTERED SURVEYORS
CRUX SURVEYING PTY LTD
CONSTITUTIONS - CIVIL - ROAD/RAIL
REGISTERED SURVEYORS

SURVEYED	MITCHELL JONES
DRAWN	BEN PARKINSON
SURVEY CHECK	NATHAN GREEN
DRAWING CHECK	KARL ULBRICH
APPROVED	MARK SUMMERS
	23/03/2018

TAREE POLICE STATION			
79 ALBERT STREET, TAREE			
TOPOGRAPHIC SURVEY			
PLAN SHOWING DETAIL & LEVELS			
STATUS: FOR INFORMATION		SHEET 4 OF 6	©
CRUX Dwg No. 121187-SU-DT-001		REV.	C

REV.	BY	DATE	DESCRIPTION	APPD.
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B	BP	20/03/2018	FOR INFORMATION	MTS
A	MJ	16/03/2018	PRELIMINARY COPY	MTS

SCALES



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GROUPGSA

REGISTERED SURVEYORS

CRUX
SURVEYING
AUSTRALIA

SURVEYED	MITCHELL JONES
DRAWN	BEN PARKINSON
SURVEY CHECK	NATHAN GREEN
DRAWING CHECK	KARL ULBRICH
APPROVED	MARK SUMMERS
	23/03/2018

TAREE POLICE STATION

79 ALBERT STREET, TAREE
TOPOGRAPHIC SURVEY
PLAN SHOWING DETAIL & LEVELS

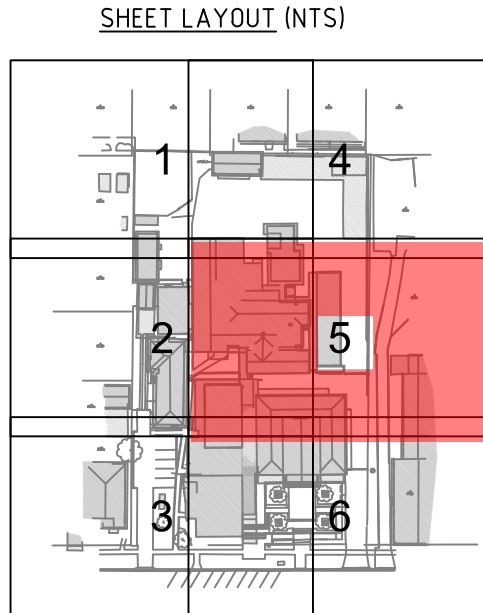
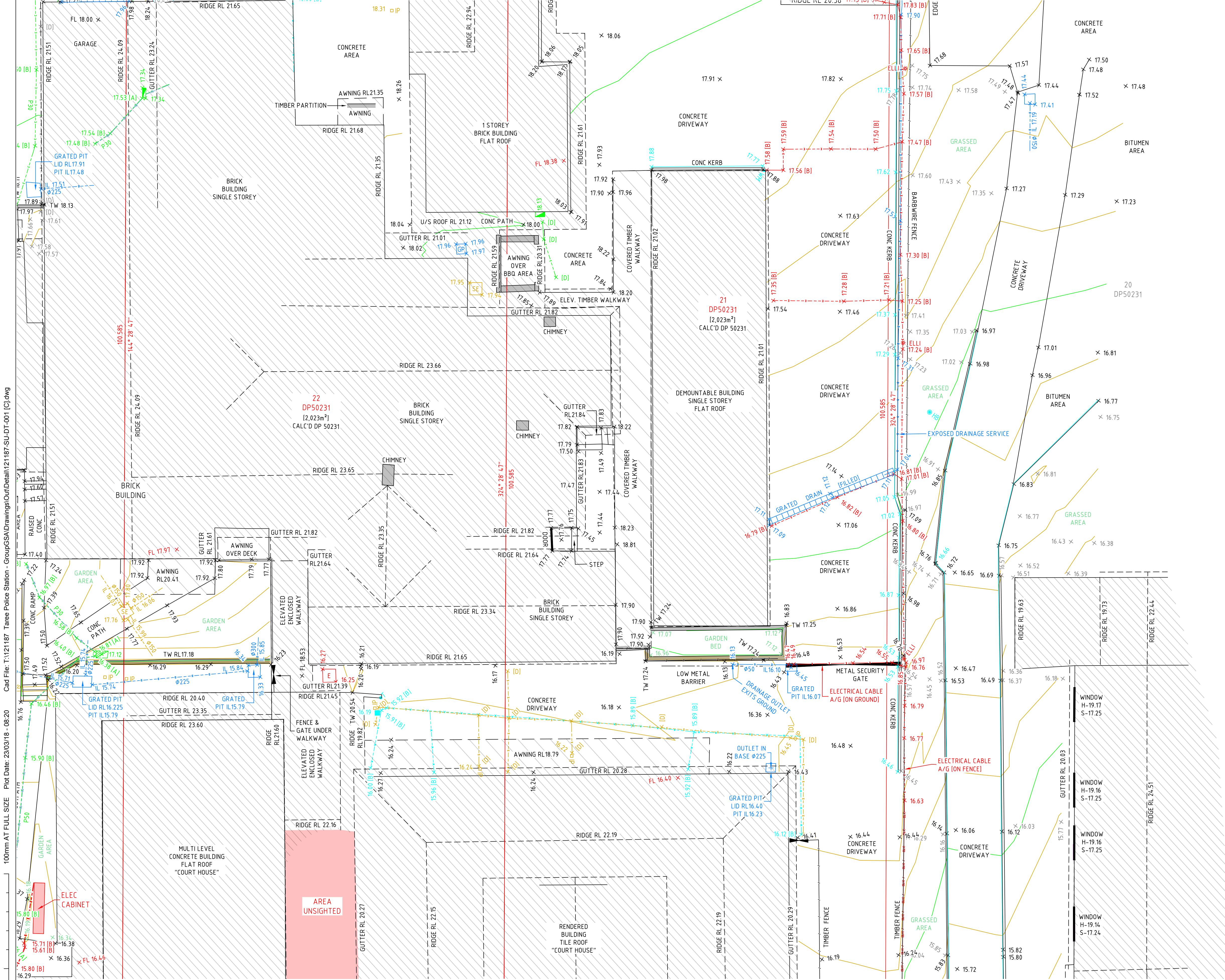
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SHEET 5 OF 6

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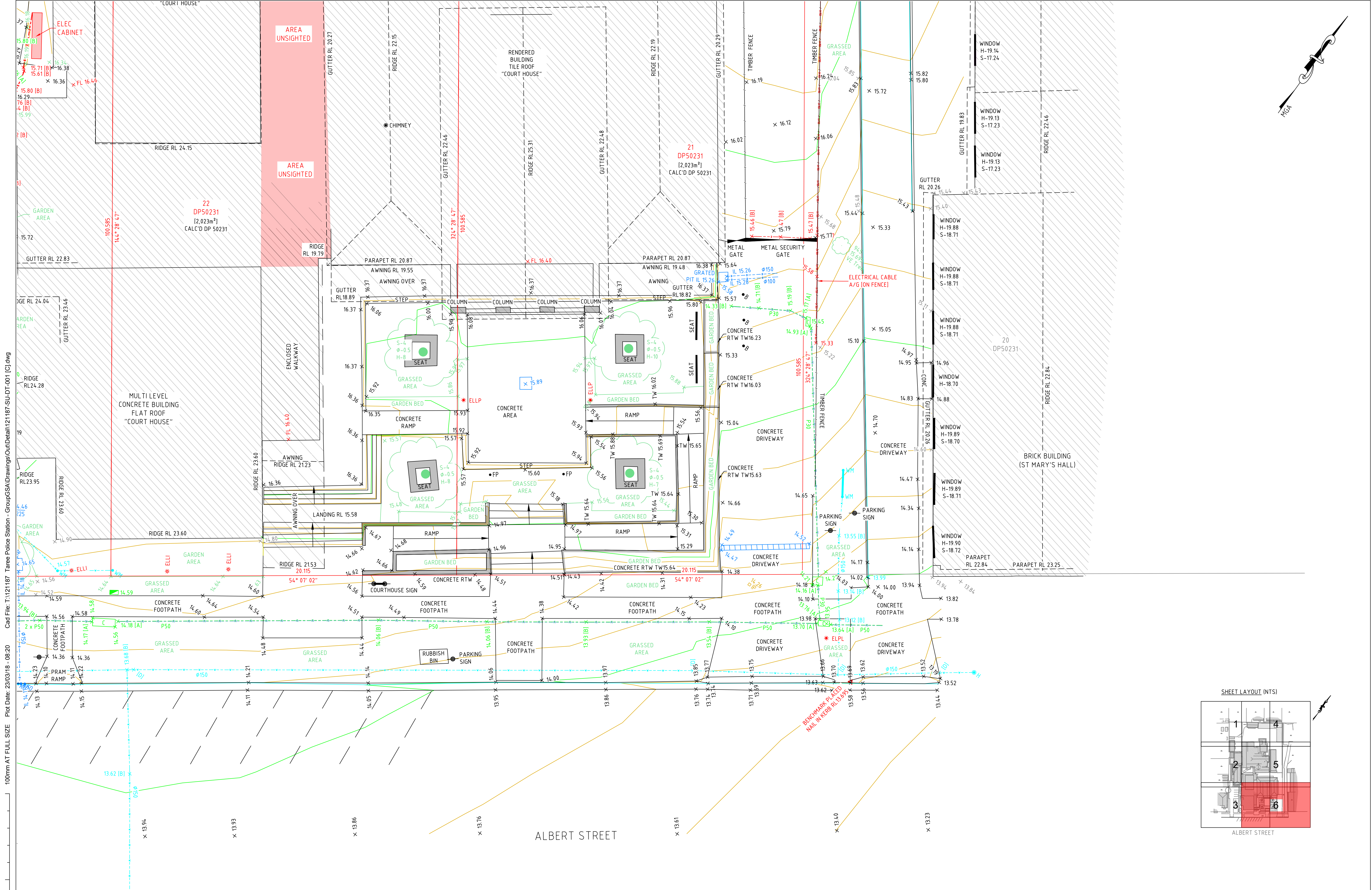
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100mm AT FULL SIZE



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SCALE	MTS
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CLIENT

GROUPGSA

REGISTERED SURVEYORS	SURVEYED	MITCHELL JONES
	DRAWN	BEN PARKINSON
	SURVEY CHECK	NATHAN GREEN
	DRAWING CHECK	KARL ULBRICH
	APPROVED	MARK SUMMERS
		23/03/2018

TAREE POLICE STATION			
79 ALBERT STREET, TAREE			
TOPOGRAPHIC SURVEY			
PLAN SHOWING DETAIL & LEVELS			
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