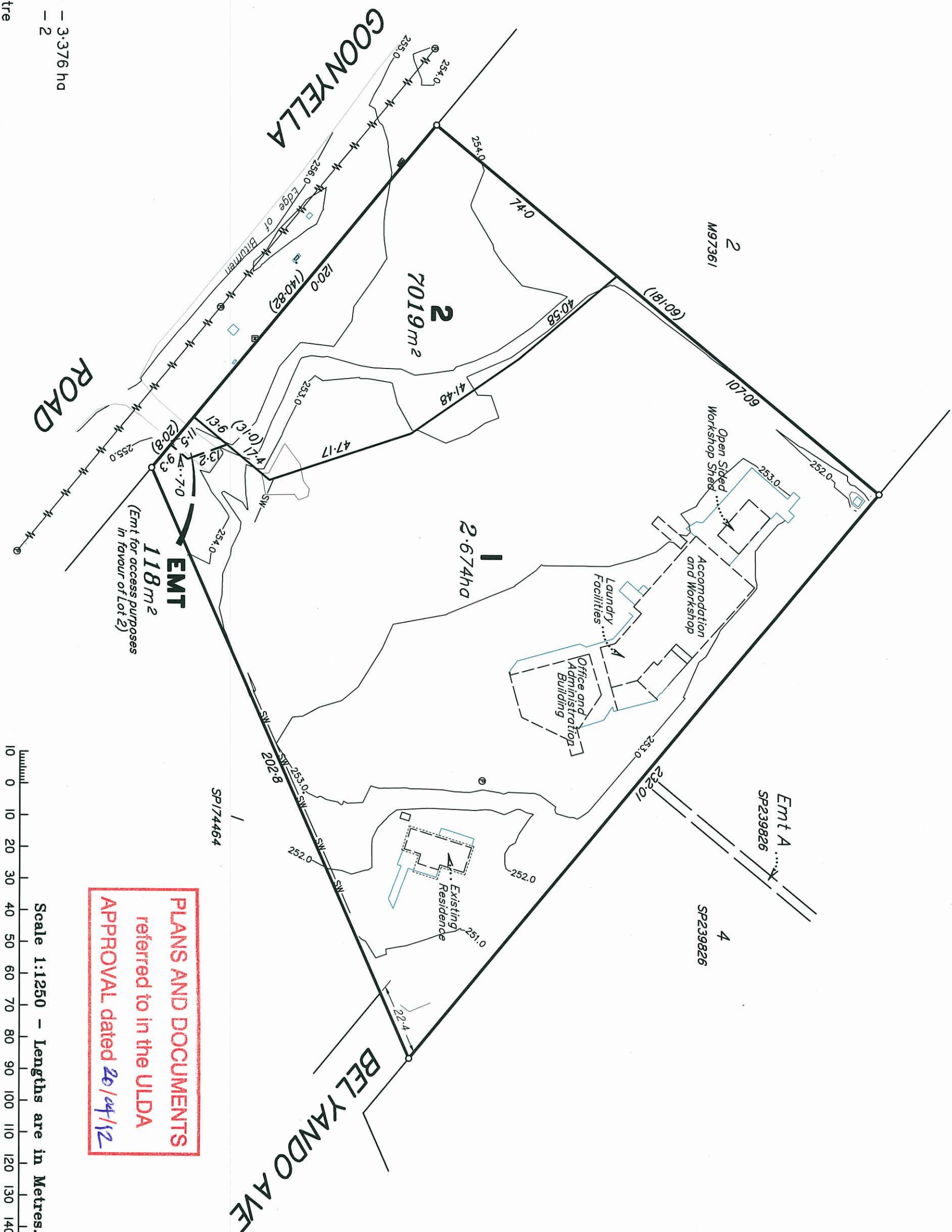




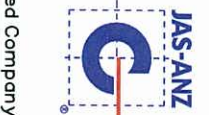
STATISTICS
Total Area of Subdivision – 3.376 ha
Number of Lots – 2
Contour Interval – 1 metre

CLIENT
Central Highlands Property Investments

PLAN OF
PROPOSED SUBDIVISION OF LOTS 1 & 2
CANCELLING LOT 1 ON M97367
PARISH OF MORANBAH COUNTY OF GROSSEVENOR
LOCAL AUTHORITY ISAAC REGIONAL COUNCIL



DTS GROUP QLD PTY LTD
1ST FLOOR 6 HEIDELBERG, MILTON QLD 4064
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Phone: (07) 3118 0600
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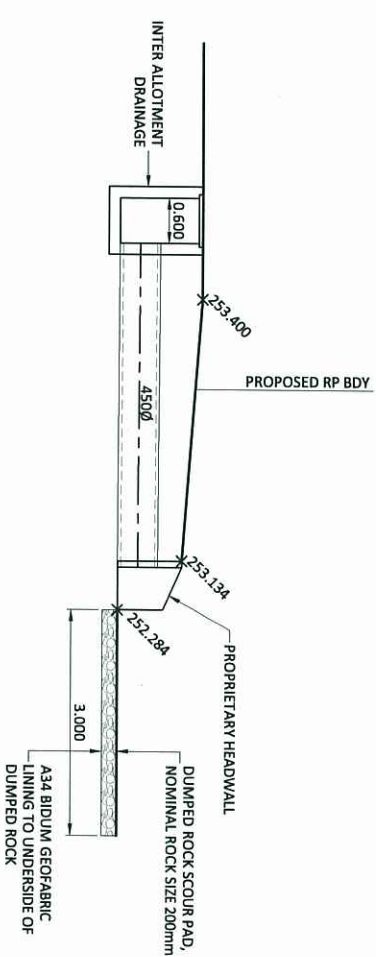
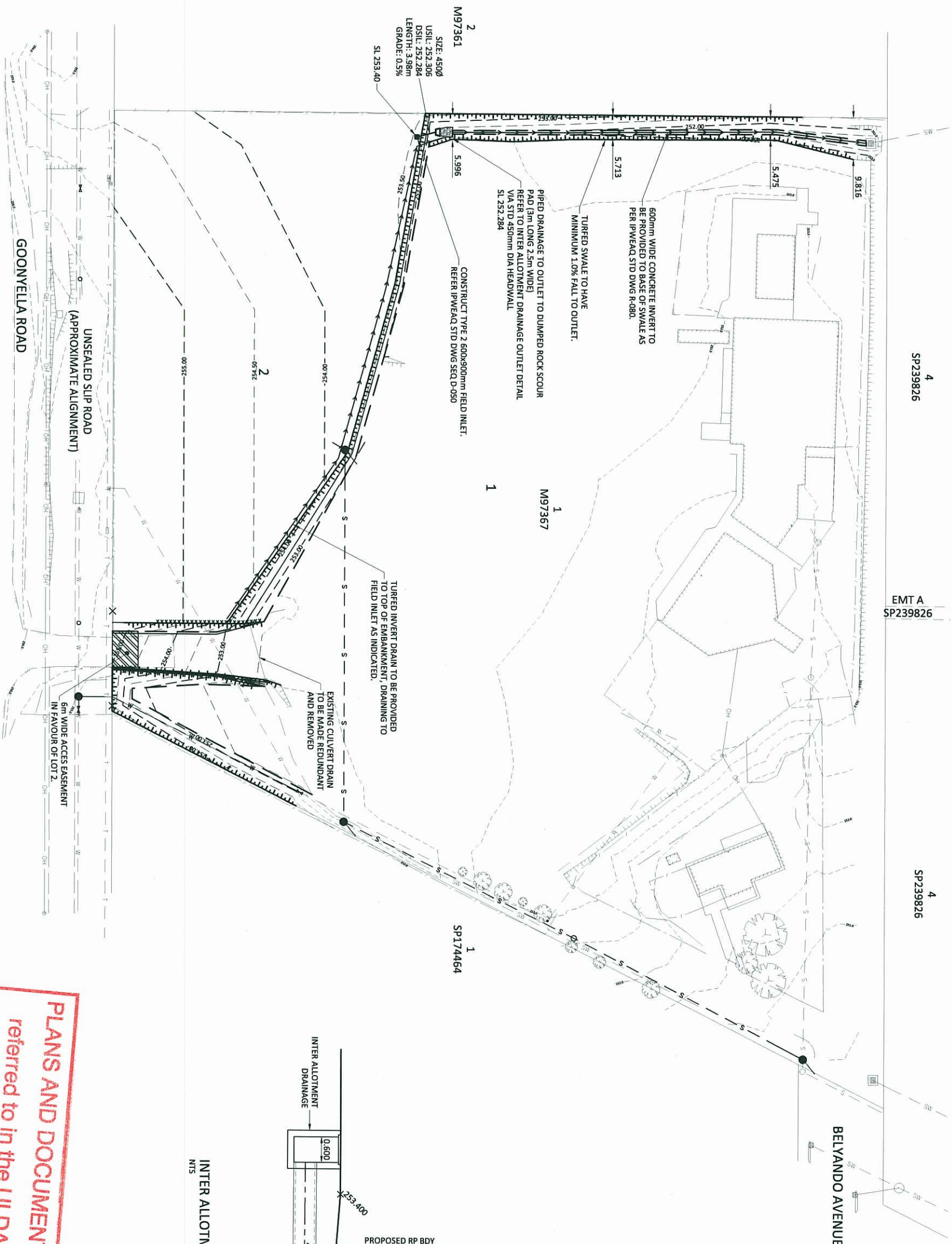
NOTES
This plan has been prepared by DTS Group Qld as a proposal plan and should not be used for any other purpose. The information contained on this plan is approximate only, has not been verified and may be subject to change. The intellectual property on this plan remains the property of DTS Group Qld. The contours shown on this plan have been derived from field survey by DTS Group Qld.



PLANS AND DOCUMENTS
referred to in the ULDA
APPROVAL dated 26/04/12

Scale 1:1250 – Lengths are in Metres.

SCALE	DRAWN	DESIGN	DATE	DWG FILE	INSTRUCTION NO.	DRAWING NO.	REV
1:1250	AA	***	02/03/2012	A11442P1.Dwg	A11442	A3 4115	C



PLANS AND DOCUMENTS
referred to in the ULDA
APPROVAL dated 20/04/12

[illegible]

PRELIMINARY



DIMENSIONS IN METRES EXCEPT WHERE SHOWN OTHERWISE. CUIVET AND PIPE SIZES IN MILLIMETRES	
A1 UNREDUCED	UNREDUCED / REDUCED
A3 REDUCED	
SCALES 0 5 10 15 20 25m 1 : 500 / 1 : 1000 	

STATUS

1	
2	
3	
4	
5	
6	
7	
8	
9	
10	
11	



4
SP239826

BELKAP AVENUE

CONSTRUCT NEW 1050mm DIA MANHOLE OVER EXISTING LINE. LOCAL AUTHORITY TO BREAK INTO EXISTING LINE TO COMPLETE CONNECTION.

23

- UNDER GROUND PIPE
ABANDONED SERVICE
TREE

ACCORDANCE WITH IPWEAQ STD DWG S-0030

NOTE:
DROPS THROUGH MH-5 TO BE CONSTRUCTED IN
ACCORDANCE WITH IPWEAQ STD DWG S-0023.

NOTE:
CONSTRUCTION OF ALL PIPERS, BRICKWORK ETC. TO BE
IN ACCORDANCE WITH IPWEAQ STD DWG S-0030.

NOTE:
CONSTRUCTION OF ALL SEWER PIPEWORK IS TO BE
COMPLETED IN ACCORDANCE WITH IPWEAQ STD
DWG 5-0090.

NOTE:
ALL NEW MH TO BE 1050mm DIA AND CONSTRUCTED IN ACCORDANCE WITH IPWEAQ STD DWG S-0020. ALL COVERS TO BE CAST IRON IN ACCORDANCE WITH IPWEAQ STD DWG S-0025.

NOTE:
100mm DIA PORPERTY CONNECTIONS TO BE PROVIDED TO EACH NEW LOT (LOTS 2-4) FROM ADJACENT MH, IN ACCORDANCE WITH IPWEAQ STD DWG S-0030

NOTE:
DROPS THROUGH MH's TO BE CONSTRUCTED IN
ACCORDANCE WITH IPWEAQ ST DWG S-0023.

NOTE:
CONSTRUCTION OF ALL SEWER PIPEWORK IS TO BE
COMPLETED IN ACCORDANCE WITH IPWEAQ STD
DWG 5-0090.

PROJECT NORTH

PLANS AND DOCUMENTS
referred to in the ULDA
APPROVAL dated 20/04/12

PLAN
SCALE A

PROJECT NORTH



ALL DIMENSIONS IN METRES EXCEPT WHERE SHOWN OTHERWISE. CULVERT AND PIPE SIZES IN MILLIMETRES

STATUS

PRELIMINARY

SUBJECT
SEWER RETICULATION
LAYOUT PLAN

**PROJECT
DETAIL DESIGN
MORANBAH RECONFIG
PROPOSAL**

CLIENT
DTS GROUP PTY LTD

BORNHORST + WARD
CONSULTING ENGINEERS
CIVIL AND STRUCTURAL
Level 4, 67 Astor Terrace, Spring Hill, QLD 4000

ASSOCIATED CONSULTANTS

REV.	DATE	AMENDMENT / ISSUE
B	08.02.12	UPDATED EARTHWORKS/CHANNEL REQUIREMENTS
A	24.01.12	ISSUE FOR INFORMATION

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4
SP239826
EMT A
SP239826

4
SP239826

BELVANDO AVENUE

1
M97367

2
M97361

1
SP174464

NOTE:
PROVIDE NEW PROPERTY CONNECTIONS TO
PROPOSED LOTS INCLUDING WATER METERS.

GOONVELLA ROAD

PLAN
SCALE A

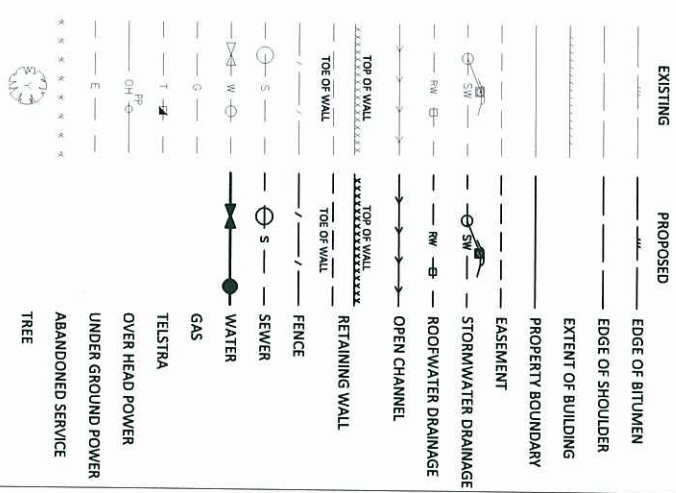
DESCRIPTION	QTY
1 CONNECTION TO EXISTING MAIN BY SERVICE AUTHORITY	1
2 1500 X 1000 TEE	1
3 1000 STOP VALVE	1
4 1500 30° BEND	1
5 1500 X 800 HYDRANT, TEE AND MARKER	2
6 1500 STOP VALVE	1
7 1500 STOP VALVE, TEE AND MARKER	1

FITTINGS SCHEDULE

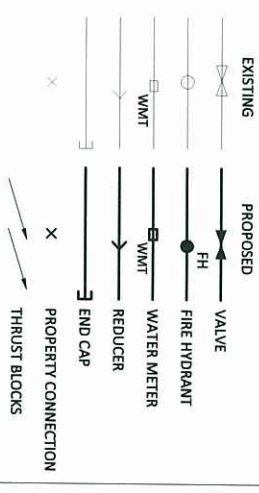
WATER NOTES

- WATER MAIN MATERIALS 100mm & 150mm MAINS - WATER MAINS SHALL BE UPVC RUBBER RING JOINTED THICK WALL CLASS 16 PIPES WITH OUTSIDE DIAMETER COMPATIBLE WITH DUCTILE IRON & AC PIPES
- NEW WATER MAINS SHALL BE LOCATED IN THE VERGE MINIMUM COVER TO ALL PIPES SHALL BE: 100mm & 150mm DIA. - 600mm COVER IN THE VERGE - 900mm COVER UNDER ROADS & TRAFFICABLE AREAS - 750mm TO TOP OF PIPE
- CONCRETE (GRADE S32) THRUST BLOCKS SHALL BE PLACED AT ALL BENDS, TEES & DEAD ENDS.
- THE DEPTH OF ALL HYDRANTS BELOW FINISHED SURFACE LEVEL SHALL BE BETWEEN 150mm & 375mm.
- ALL SERVICE CONDUITS SHALL BE 100mm UPVC DIA. CLASS 12.
- ALL CONNECTIONS TO EXISTING MAINS SHALL BE CARRIED OUT BY LOCAL AUTHORITY AT THE DEVELOPER'S COST.
- ALL HYDRANTS SHALL HAVE A FUSION BOND EPOXY (FBE) COATING OR EQUIVALENT.
- ALL VALVES SHALL HAVE A FUSION BOND EPOXY (FBE) COATING & SHALL BE RESILIENT SEATED. REFER TO RELEVANT AUTHORITY STANDARD DRAWINGS FOR DETAILS
- WATER SERVICES (EXCLUDING METEN) TO BE CONSTRUCTED TO LOTS WHERE THE WATER MAINS ARE LOCATED UNDER CONCRETE FOOTPATHS & LANEWAYS UNLESS NOTED OTHERWISE. BRASS MARKERS ARE TO BE PLACED IN THE CONCRETE FOOTPATHS & DRIVEWAYS UNLESS NOTED OTHERWISE.
- A BLUE BI-DIRECTIONAL RAISED REFLECTIVE PAVEMENT MARKER (RPM) SHALL BE PROVIDED ON THE ROAD CENTRELINE OPPOSITE TO ALL HYDRANTS. THE MARKER SHALL BE INSTALLED IN ACCORDANCE WITH THE DEPARTMENT OF MAIN ROADS FIRE HYDRANT INDICATION SYSTEM TECHNICAL GUIDELINE.
- REFER SPECIFICATION FOR TEST CRITERIA.

LEGEND



FITTINGS



NOTE:
REFER TO IPWEAQ STD DWGS
FOR WATER FITTING DETAILS.

NOTE:
EXISTING FIRE HYDRANTS TO BE LOCATED
ONSITE PRIOR TO POTABLE WATER
CONSTRUCTION WORKS COMMENCING.



DIMENSIONS IN METRES UNLESS NOTED
SHOWN OTHERWISE. GROUND AND PIPE
SIZES IN MILLIMETRES
UNREduced / REDUCED
A 0 5 10 15 20 25m
1:500 / 1:1000

PRELIMINARY

REV.	DATE	AMENDMENT / ISSUE	DWN	ISS	CHK	APP	ASSOCIATED CONSULTANTS	APPROVED	CHECKED	CLIENT	PROJECT	SUBJECT	PROJECT No.	DRAWING No.	REVISION
A	24.01.12	ISSUE FOR INFORMATION	AV	TM						BORNHORST + WARD CONSULTING ENGINEERS CIVIL AND STRUCTURAL Level 4, 67 Ascor Terrace, Spring Hill, QLD 4000	DTG GROUP PTY LTD	MORANBAH RECONFIG PROPOSAL	WATER RETICULATION LAYOUT PLAN	11440A	C070 B

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