

[illegible]

[illegible]

SITE SPECIFIC NOTES

STRUCTURE

TYPE: PROPOSED AMPLITEL 35.0m HIGH
MONOPOLE
MODEL NO.: SR3.5-H35-660
COLOUR: NATURAL CONCRETE
FEEDER ENTRY WINDOW: 45° TN
POLE REFERENCE: P94492
FOOTING DRAWING: TP018ST11

EQUIPMENT SHELTER FOUNDATION:

TYPICAL FOOTING DETAILS (3.0m x 2.5m)
SHELTER - CONCRETE BASE
REFERENCE DRAWING: TEL-RCP-FD-001
NOTE: 50mm THICK COMPACTED CRUSHED ROCK
TO BE PLACED UNDER THE SHELTER AS PER THE
MATERIAL SPECIFICATION ON REF. DRAWING

HEADFRAME:

TYPE: TRIANGULAR HEADFRAME
MODEL NO.: TO SUIT POLE TYPE
COLOUR: GALVANISED FINISH
REFERENCE DRAWING: 017866P105
SHEETS 16-19

ANTENNA ACCESS

TELSTRA: ELEVATED WORK PLATFORM

EARTHING DETAIL

REFER TO SHEETS G4 & G4-1 FOR DETAILS.
REFER TO DWG TPO18ST201-6 FOR CONCRETE
POLE EARTH BAR MOUNTING DETAILS. REFER TO
DWGS TPO18ST204-1 AND TP018ST204-2 FOR
CONCRETE POLE EARTHING DETAIL. REFER TO
TP018G03 FOR AMPLITEL CIVIL DESIGN EARTHING
MANUAL. REFER TO TP018ST203-1 FOR ACCESS
SEEKER EARTHING.

POWER SUPPLY

PROPOSED 3-PHASE 50A POWER
FOR AMPLITEL/TELSTRA.
REFER TO SHEETS E0, E0-1 AND E2.
DIAL 1100 BEFORE YOU DIG.

PROPERTY SIGNAGE

AMPLITEL BRANDED SIGN SHALL BE INSTALLED
IN ACCORDANCE WITH TP018G02. REFER TO
TP013ST03 FOR METHOD OF ATTACHMENT.
JABAC NO. TEMC2005-M SHALL BE FIXED TO
COMPOUND GATE

STRUCTURE SIGNAGE

SIGNAGE ON THE STRUCTURE SHALL BE INSTALLED
IN ACCORDANCE WITH TP013ST03.
MERCS-1 SIGN
JABAC NO. TERH4311-M OR TERH4312-M
(SELECT AS APPLICABLE)
DO NOT CLIMB SIGN
JABAC NO. TERH270-M

SITE ACCESS

VIA BOWMAN ROAD,
BLACKBUTT NORTH, QLD 4314.
REFER TO SHEET S1 FOR DETAILS

SITE SIGNAGE

ALL EME SIGNAGE IS REFERENCED ON DRAWINGS
S1-1, S1-2 & S3.
REFER TO DOCUMENT 005486 FOR DETAILS.

SITE HAZARDS

1. WORKING AT HEIGHTS
2. TRIP HAZARD
3. UNDERGROUND SERVICES

GENERAL NOTES

1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS SPECIFIED OTHERWISE.
2. THE ANTI-TAMPERING SOLUTION MUST BE IMPLEMENTED ON THE SAME DAY THE STRUCTURE IS ASSEMBLED.

ROCLA BOLT TENSIONING SPECIFICATION:

SET THE TORQUE WRENCH TO A TORQUE SETTING OF 400 N.M. TIGHTEN EACH NUT IN A DIAMETRICALLY OPPOSITE SEQUENCE UNTIL ALL THE NUTS HAVE BEEN TIGHTENED. RECHECK THE NUTS FIRST TIGHTENED TO ENSURE THAT ALL NUTS HAVE THE SAME FINAL TENSION.

SPECIAL NOTES

1. TRAFFIC MANAGEMENT REQUIRED FOR MONOPOLE DELIVERY.
2. AN UNDERGROUND TELECOMMUNICATIONS SERVICE HAS BEEN IDENTIFIED NEAR THE PROPOSED CROSSOVER AT AN APPROXIMATE DEPTH OF 426 MM. REFER TO SHEETS S1 AND G2 FOR THE RELATIVE SERVICE LOCATION AS INDICATED IN THE SERVICE SEARCH REPORT. PRIOR TO ANY EXCAVATION WORKS, POTHOLING AND/OR VACUUM TRUCK EXCAVATION IS RECOMMENDED TO POSITIVELY IDENTIFY THE SERVICE AND AVOID ANY DAMAGE.
3. THE PROPOSED COMPOUND REQUIRES MINOR LEVELLING. REFER TO SHEET G2 FOR CONTOUR DETAILS.
4. TREE REMOVAL IS REQUIRED. REFER TO SHEET G2 FOR IDENTIFICATION OF TREES TO BE REMOVED AND TREES TO BE RETAINED.

SITE REFERENCE DETAILS

OCCUPIER	SITE NAME	SITE CODE
TELSTRA	BLACKBUTT NORTH	363773
RFNSA SITE NUMBER - 4314002 STRUCTURE OWNER - AMPLITEL (QLD100799)		

SERVICES LEGEND

— T ——— T ——— T ———	OPTICAL FIBRE ABOVE GROUND
— T ——— T ——— T ———	OPTICAL FIBRE BELOW GROUND
——— E ——— E ———	ABOVE GROUND ELECTRICAL SUPPLY
——— e ——— e ——— e ———	BELOW GROUND ELECTRICAL SUPPLY
——— G ——— G ———	GAS SUPPLY BELOW GROUND
——— HV ——— HV ———	HIGH VOLTAGE ELECTRICAL SUPPLY
— W — W — W — W — W —	WATER SUPPLY ABOVE GROUND
——— W ——— W ———	WATER SUPPLY BELOW GROUND
——— S ——— S ———	SEWER LINE
——— SW ——— SW ———	STORM WATER
——— FE ——— FE ———	ABOVE GROUND FEEDER CABLES
——— FE ——— FE ———	BELOW GROUND FEEDER CABLES

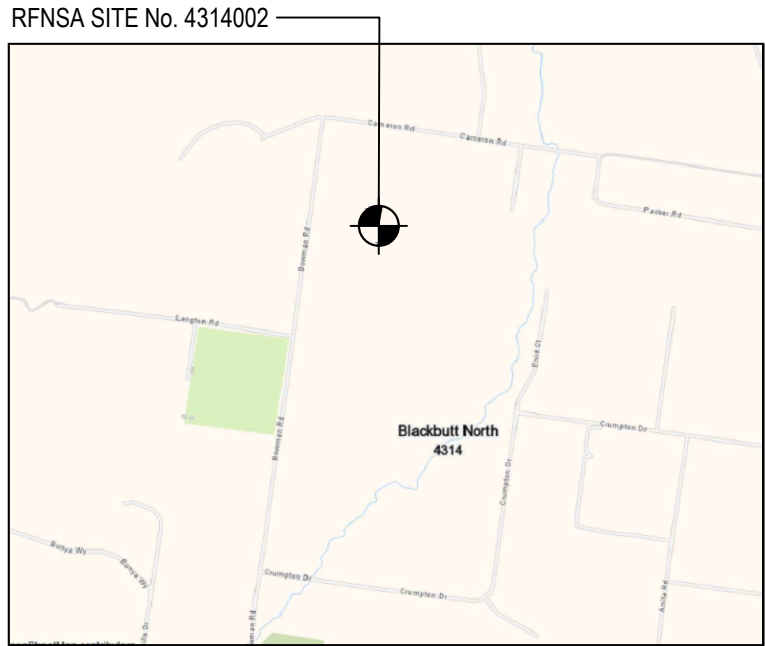
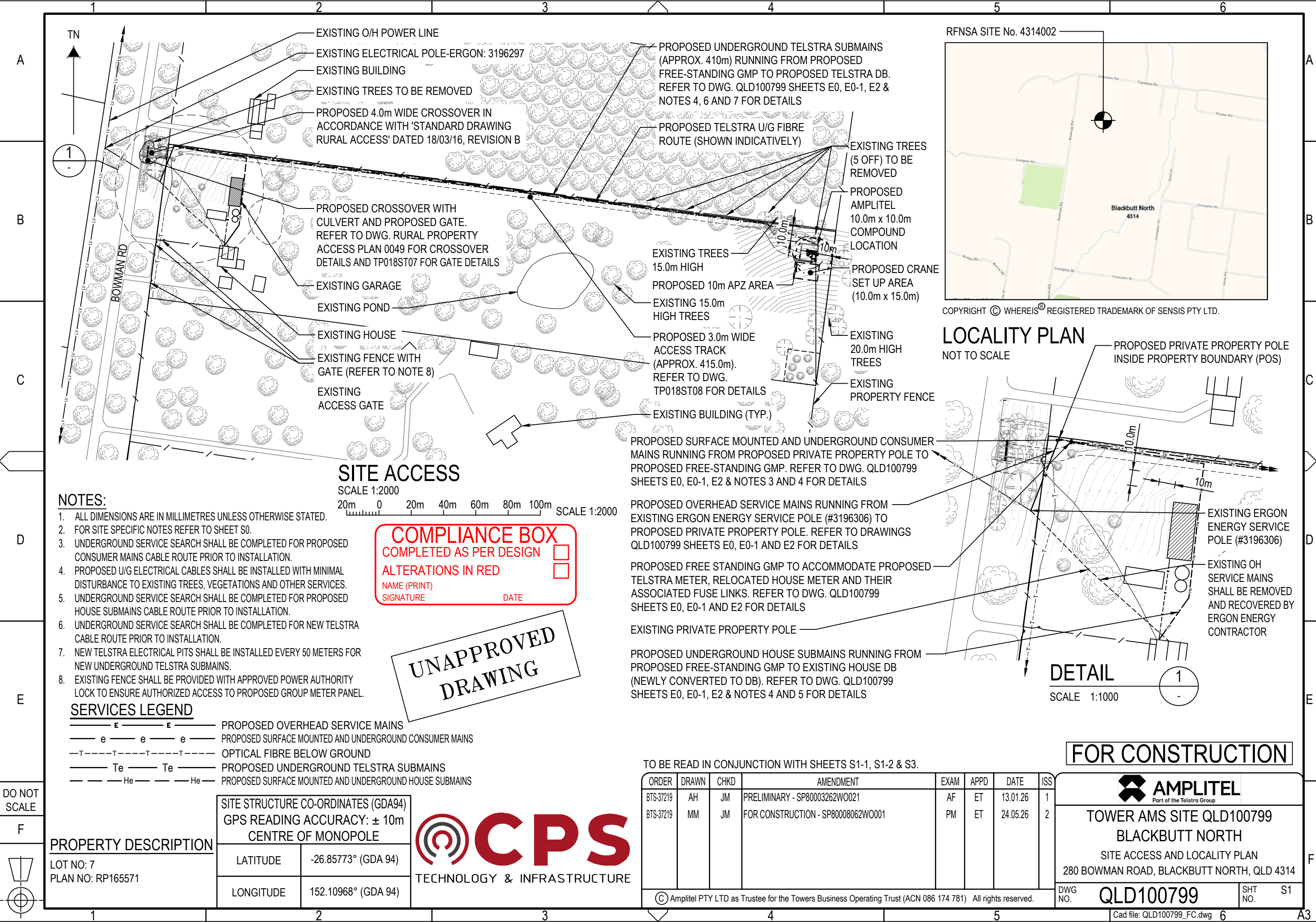
**UNAPPROVED
DRAWING**

COMPLIANCE BOX	
COMPLETED AS PER DESIGN	☐
ALTERATIONS IN RED	☐
NAME (PRINT)	
SIGNATURE	DATE

FOR CONSTRUCTION

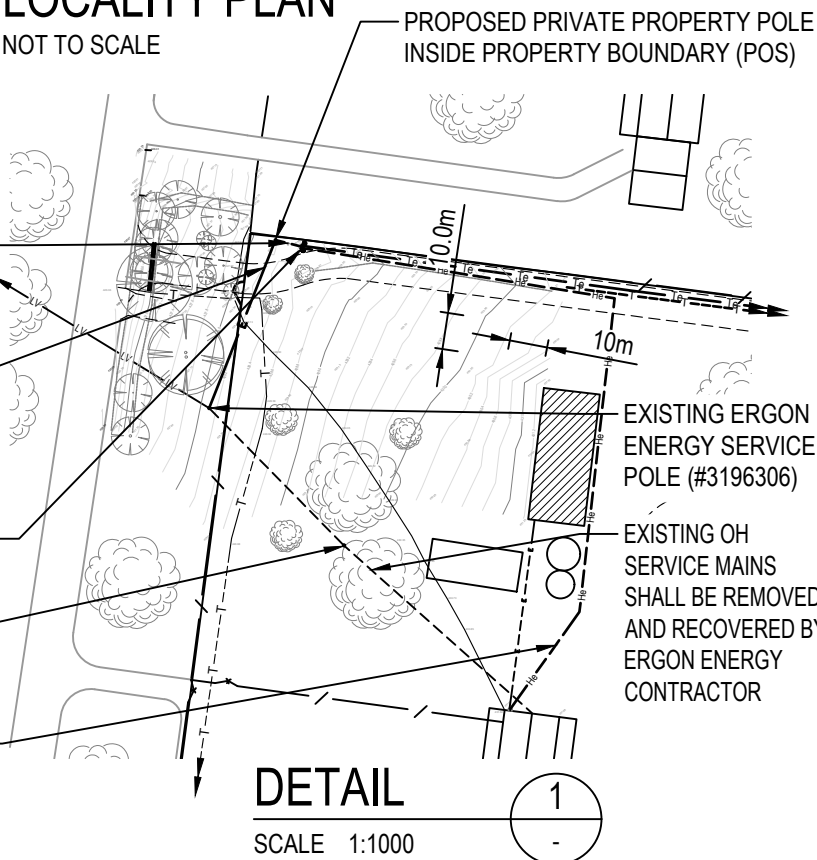
ORDER	DRAWN	CHKD	AMENDMENT	EXAM	APPD	DATE	ISS	 AMPLITEL Part of the Telstra Group			
BTS-37219	MM	JM	FOR CONSTRUCTION - SP80008062WO001	PM	ET	24.05.26	1	TOWER AMS SITE QLD100799 BLACKBUTT NORTH SITE SPECIFIC NOTES 280 BOWMAN ROAD, BLACKBUTT NORTH, QLD 4314			
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LOCALITY PLAN
NOT TO SCALE



- NOTES:**
- ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE STATED.
 - FOR SITE SPECIFIC NOTES REFER TO SHEET S0.
 - UNDERGROUND SERVICE SEARCH SHALL BE COMPLETED FOR PROPOSED CONSUMER MAINS CABLE ROUTE PRIOR TO INSTALLATION.
 - PROPOSED U/G ELECTRICAL CABLES SHALL BE INSTALLED WITH MINIMAL DISTURBANCE TO EXISTING TREES, VEGETATIONS AND OTHER SERVICES.
 - UNDERGROUND SERVICE SEARCH SHALL BE COMPLETED FOR PROPOSED HOUSE SUBMAINS CABLE ROUTE PRIOR TO INSTALLATION.
 - UNDERGROUND SERVICE SEARCH SHALL BE COMPLETED FOR NEW TELSTRA CABLE ROUTE PRIOR TO INSTALLATION.
 - NEW TELSTRA ELECTRICAL PITS SHALL BE INSTALLED EVERY 50 METERS FOR NEW UNDERGROUND TELSTRA SUBMAINS.
 - EXISTING FENCE SHALL BE PROVIDED WITH APPROVED POWER AUTHORITY LOCK TO ENSURE AUTHORIZED ACCESS TO PROPOSED GROUP METER PANEL.

SERVICES LEGEND

- PROPOSED OVERHEAD SERVICE MAINS
- PROPOSED SURFACE MOUNTED AND UNDERGROUND CONSUMER MAINS
- OPTICAL FIBRE BELOW GROUND
- PROPOSED UNDERGROUND TELSTRA SUBMAINS
- PROPOSED SURFACE MOUNTED AND UNDERGROUND HOUSE SUBMAINS

SITE STRUCTURE CO-ORDINATES (GDA94)
GPS READING ACCURACY: ± 10m
CENTRE OF MONOPOLE

LATITUDE -26.85773° (GDA 94)
LONGITUDE 152.10968° (GDA 94)



TO BE READ IN CONJUNCTION WITH SHEETS S1-1, S1-2 & S3.

ORDER	DRAWN	CHKD	AMENDMENT	EXAM	APPD	DATE	ISS
BTS-37219	AH	JM	PRELIMINARY - SP80003262WO021	AF	ET	13.01.26	1
BTS-37219	MM	JM	FOR CONSTRUCTION - SP80008062WO001	PM	ET	24.05.26	2

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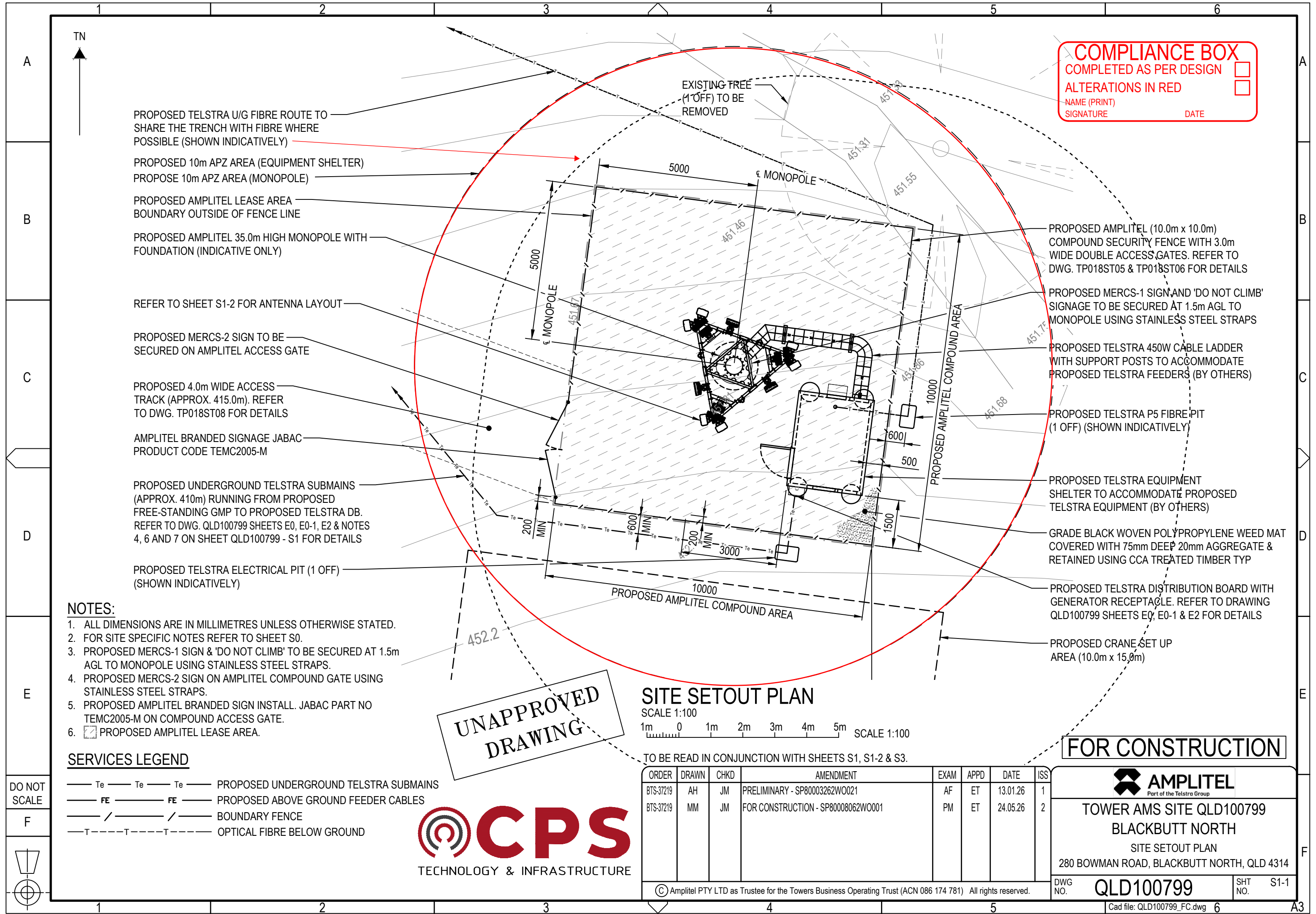
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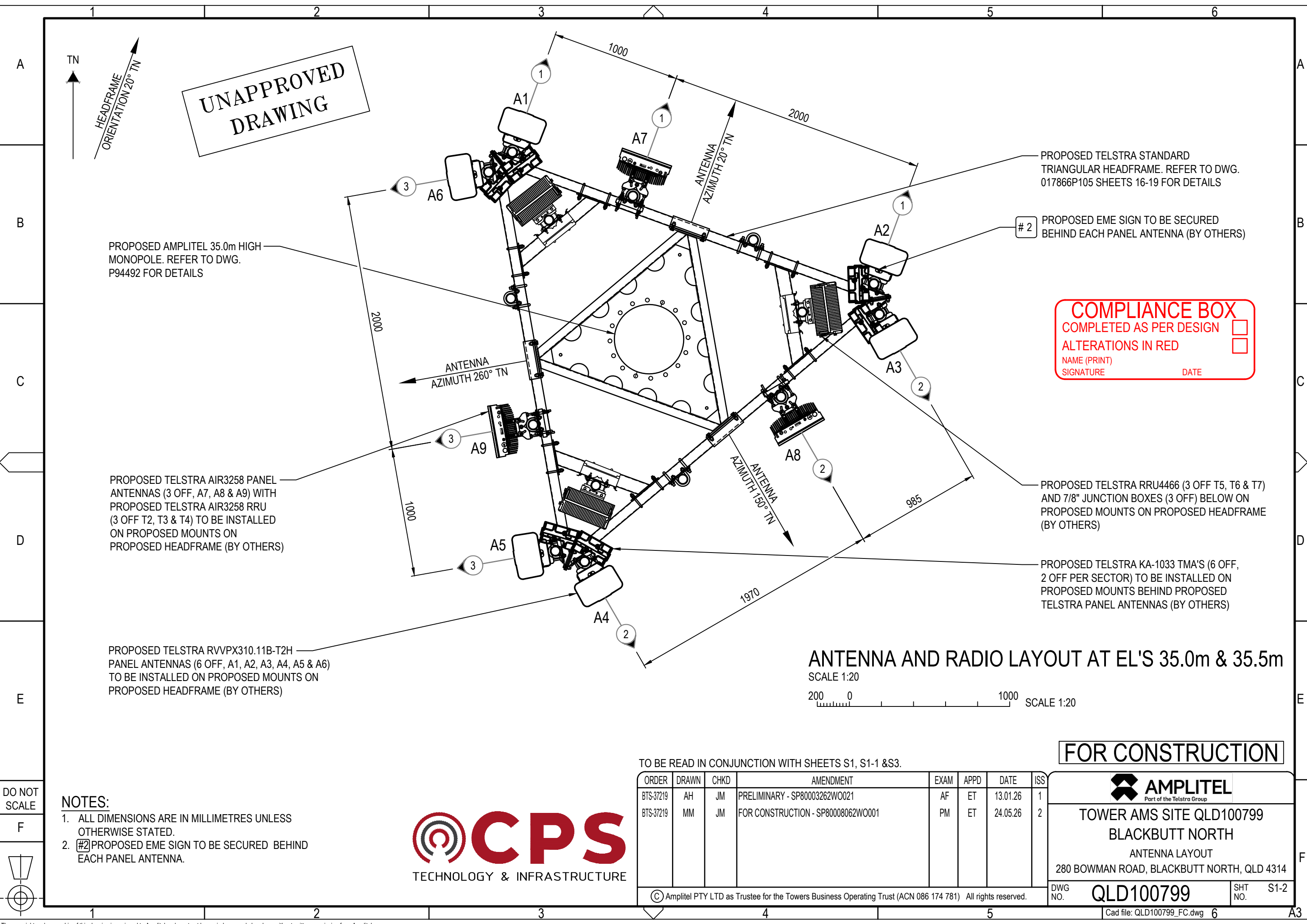
TOWER AMS SITE QLD100799
BLACKBUTT NORTH
SITE ACCESS AND LOCALITY PLAN
280 BOWMAN ROAD, BLACKBUTT NORTH, QLD 4314

DWG NO. **QLD100799** SHT NO. S1

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DWG NO.		QLD100799		SHT NO.	
S1-1		S1-1		S1-1	
DATE		24.05.26		DATE	
APPD		ET		APPD	
EXAM		AF		EXAM	
AMENDMENT		PRELIMINARY - SP80003262WO021		AMENDMENT	
CHKD		JM		CHKD	
DRAWN		MM		DRAWN	
ORDER		BTS-37219		ORDER	
ISS		1		ISS	
FOR CONSTRUCTION - SP80008062WO001		FOR CONSTRUCTION - SP80008062WO001		FOR CONSTRUCTION - SP80008062WO001	
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TECHNOLOGY & INFRASTRUCTURE		TECHNOLOGY & INFRASTRUCTURE		TECHNOLOGY & INFRASTRUCTURE	
CPS		CPS		CPS	
PROPOSED UNDERGROUND TELSTRA SUBMAINS		PROPOSED UNDERGROUND TELSTRA SUBMAINS		PROPOSED UNDERGROUND TELSTRA SUBMAINS	
PROPOSED ABOVE GROUND FEEDER CABLES		PROPOSED ABOVE GROUND FEEDER CABLES		PROPOSED ABOVE GROUND FEEDER CABLES	
BOUNDARY FENCE		BOUNDARY FENCE		BOUNDARY FENCE	
OPTICAL FIBRE BELOW GROUND		OPTICAL FIBRE BELOW GROUND		OPTICAL FIBRE BELOW GROUND	
SERVICES LEGEND		SERVICES LEGEND		SERVICES LEGEND	
NOTES:		NOTES:		NOTES:	
1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE STATED.		1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE STATED.		1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE STATED.	
2. FOR SITE SPECIFIC NOTES REFER TO SHEET S0.		2. FOR SITE SPECIFIC NOTES REFER TO SHEET S0.		2. FOR SITE SPECIFIC NOTES REFER TO SHEET S0.	
3. PROPOSED MERCS-1 SIGN & 'DO NOT CLIMB' TO BE SECURED AT 1.5m AGL TO MONOPOLE USING STAINLESS STEEL STRAPS.		3. PROPOSED MERCS-1 SIGN & 'DO NOT CLIMB' TO BE SECURED AT 1.5m AGL TO MONOPOLE USING STAINLESS STEEL STRAPS.		3. PROPOSED MERCS-1 SIGN & 'DO NOT CLIMB' TO BE SECURED AT 1.5m AGL TO MONOPOLE USING STAINLESS STEEL STRAPS.	
4. PROPOSED MERCS-2 SIGN ON AMPLITEL COMPOUND GATE USING STAINLESS STEEL STRAPS.		4. PROPOSED MERCS-2 SIGN ON AMPLITEL COMPOUND GATE USING STAINLESS STEEL STRAPS.		4. PROPOSED MERCS-2 SIGN ON AMPLITEL COMPOUND GATE USING STAINLESS STEEL STRAPS.	
5. PROPOSED AMPLITEL BRANDED SIGN INSTALL. JABAC PART NO TEMC2005-M ON COMPOUND ACCESS GATE.		5. PROPOSED AMPLITEL BRANDED SIGN INSTALL. JABAC PART NO TEMC2005-M ON COMPOUND ACCESS GATE.		5. PROPOSED AMPLITEL BRANDED SIGN INSTALL. JABAC PART NO TEMC2005-M ON COMPOUND ACCESS GATE.	
6. PROPOSED AMPLITEL LEASE AREA.		6. PROPOSED AMPLITEL LEASE AREA.		6. PROPOSED AMPLITEL LEASE AREA.	
UNAPPROVED DRAWING		UNAPPROVED DRAWING		UNAPPROVED DRAWING	
SITE SETOUT PLAN		SITE SETOUT PLAN		SITE SETOUT PLAN	
SCALE 1:100		SCALE 1:100		SCALE 1:100	
TO BE READ IN CONJUNCTION WITH SHEETS S1, S1-2 & S3.		TO BE READ IN CONJUNCTION WITH SHEETS S1, S1-2 & S3.		TO BE READ IN CONJUNCTION WITH SHEETS S1, S1-2 & S3.	
FOR CONSTRUCTION		FOR CONSTRUCTION		FOR CONSTRUCTION	
AMPLITEL		AMPLITEL		AMPLITEL	
Part of the Telstra Group		Part of the Telstra Group		Part of the Telstra Group	
TOWER AMS SITE QLD100799		TOWER AMS SITE QLD100799		TOWER AMS SITE QLD100799	
BLACKBUTT NORTH		BLACKBUTT NORTH		BLACKBUTT NORTH	
SITE SETOUT PLAN		SITE SETOUT PLAN		SITE SETOUT PLAN	
280 BOWMAN ROAD, BLACKBUTT NORTH, QLD 4314		280 BOWMAN ROAD, BLACKBUTT NORTH, QLD 4314		280 BOWMAN ROAD, BLACKBUTT NORTH, QLD 4314	
COMPLIANCE BOX		COMPLIANCE BOX		COMPLIANCE BOX	
COMPLETED AS PER DESIGN		COMPLETED AS PER DESIGN		COMPLETED AS PER DESIGN	
ALTERATIONS IN RED		ALTERATIONS IN RED		ALTERATIONS IN RED	
NAME (PRINT)		NAME (PRINT)		NAME (PRINT)	
SIGNATURE		SIGNATURE		SIGNATURE	
DATE		DATE		DATE	



DO NOT SCALE

F

- NOTES:
1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE STATED.
 2. #2 PROPOSED EME SIGN TO BE SECURED BEHIND EACH PANEL ANTENNA.



TO BE READ IN CONJUNCTION WITH SHEETS S1, S1-1 & S3.

ORDER	DRAWN	CHKD	AMENDMENT	EXAM	APPD	DATE	ISS
BTS-37219	AH	JM	PRELIMINARY - SP80003262WO021	AF	ET	13.01.26	1
BTS-37219	MM	JM	FOR CONSTRUCTION - SP80008062WO001	PM	ET	24.05.26	2

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TOWER AMS SITE QLD100799

BLACKBUTT NORTH

ANTENNA LAYOUT

280 BOWMAN ROAD, BLACKBUTT NORTH, QLD 4314

DWG NO. **QLD100799**

SHT NO. S1-2

PROPOSED EME SIGN TO BE SECURED BEHIND EACH PANEL ANTENNA (BY OTHERS)

2

- E.L. 36.3m (±100mm) R.L. 488.1m AHD
OVERALL HEIGHT
- E.L. 35.5m (±100mm) R.L. 487.3m AHD
C/L PROPOSED TELSTRA AIR3258 ANTENNAS (3 OFF A7, A8, & A9) (BY OTHERS)
C/L PROPOSED TELSTRA AIR3258 RRU (3 OFF T2, T3 & T4) (BY OTHERS)
C/L PROPOSED TELSTRA RADIO (3 OFF T5, T6 & T7) (BY OTHERS)
- E.L. 35.0m (±100mm) R.L. 486.8m AHD
TOP OF PROPOSED AMPLITEL MONOPOLE
C/L PROPOSED TELSTRA PANEL ANTENNAS (6 OFF A1, A2, A3, A4, A5 & A6) (BY OTHERS)
C/L PROPOSED TELSTRA TMA'S (6 OFF) (BY OTHERS)
C/L PROPOSED TELSTRA TRIANGULAR HEADFRAME (BY OTHERS)
- E.L. 34.5m (±100mm) R.L. 463.3m AHD
C/L PROPOSED TELSTRA 7/8" JUNCTION BOXES (3 OFF) (BY OTHERS)

NOTES:

- FOR SITE SPECIFIC NOTES REFER TO SHEET S0.
- #2 PROPOSED EME SIGN TO BE SECURED BEHIND EACH PANEL ANTENNA (BY OTHERS).
- PROPOSED MERCS-1 SIGN & 'DO NOT CLIMB' TO BE SECURED AT 1.5m AGL TO MONOPOLE USING STAINLESS STEEL STRAPS.
- PROPOSED MERCS-2 SIGN ON AMPLITEL COMPOUND GATE USING STAINLESS STEEL STRAPS.
- PROPOSED AMPLITEL BRANDED SIGN INSTALL. JABAC PART NO TEMC2005-M ON COMPOUND ACCESS GATE.

SERVICES LEGEND

- Te Te Te PROPOSED UNDERGROUND TELSTRA SUBMAINS
- FE FE FE PROPOSED ABOVE GROUND FEEDER CABLES
- T T T OPTICAL FIBRE BELOW GROUND

COMPLIANCE BOX

COMPLETED AS PER DESIGN

ALTERATIONS IN RED

NAME (PRINT)

SIGNATURE

DATE

UNAPPROVED
DRAWING

PROPOSED TELSTRA EQUIPMENT SHELTER TO ACCOMMODATE PROPOSED TELSTRA EQUIPMENT (BY OTHERS)

PROPOSED TELSTRA DISTRIBUTION BOARD WITH GENERATOR RECEPTACLE. REFER TO DRAWING QLD100799 SHEETS E0, E0-1 & E2 FOR DETAILS

AMPLITEL BRANDED SIGNAGE JABAC PRODUCT CODE TEMC2005-M

PROPOSED TELSTRA ELECTRICAL PIT (1 OFF) (SHOWN INDICATIVELY)

PROPOSED UNDERGROUND TELSTRA SUBMAINS (APPROX. 410m) RUNNING FROM PROPOSED FREE-STANDING GMP TO PROPOSED TELSTRA DB. REFER TO DWG. QLD100799 SHEETS E0, E0-1, E2 & NOTES 4, 6 AND 7 ON SHEET QLD100799 - S1 FOR DETAILS

PROPOSED TELSTRA 450W CABLE LADDER WITH SUPPORT POSTS TO ACCOMMODATE PROPOSED TELSTRA FEEDERS (BY OTHERS)

PROPOSED MERCS-1 SIGN & 'DO NOT CLIMB' TO BE SECURED AT 1.5m AGL TO MONOPOLE USING STAINLESS STEEL STRAPS

PROPOSED AMPLITEL 2.4m HIGH SECURITY FENCE WITH DOUBLE ACCESS GATE. REFER TO DWG. TP018ST05 & TP018ST06 FOR DETAILS

PROPOSED TELSTRA U/G FIBRE ROUTE TO SHARE THE TRENCH WITH FIBRE WHERE POSSIBLE (SHOWN INDICATIVELY)

E.L. 0.0m (R.L. 451.8m AHD)
GROUND LEVEL

PROPOSED AMPLITEL MONOPOLE FOUNDATION. REFER TO DWG. TP018ST11 FOR DETAILS

EAST ELEVATION

SCALE 1:150

3m 0 3m 6m SCALE 1:150

PROPOSED TELSTRA P5 FIBRE PIT (1 OFF) (SHOWN INDICATIVELY)

DO NOT
SCALE

TO BE READ IN CONJUNCTION WITH SHEETS S1, S1-1 & S1-2.

ORDER	DRAWN	CHKD	AMENDMENT	EXAM	APPD	DATE	ISS
BTS-37219	AH	JM	PRELIMINARY - SP80003262WO021	AF	ET	13.01.26	1
BTS-37219	MM	JM	FOR CONSTRUCTION - SP80008062WO001	PM	ET	24.05.26	2

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TOWER AMS SITE QLD100799

BLACKBUTT NORTH

EAST ELEVATION

280 BOWMAN ROAD, BLACKBUTT NORTH, QLD 4314

DWG
NO.

QLD100799

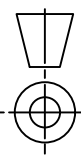
SHT
NO.

S3

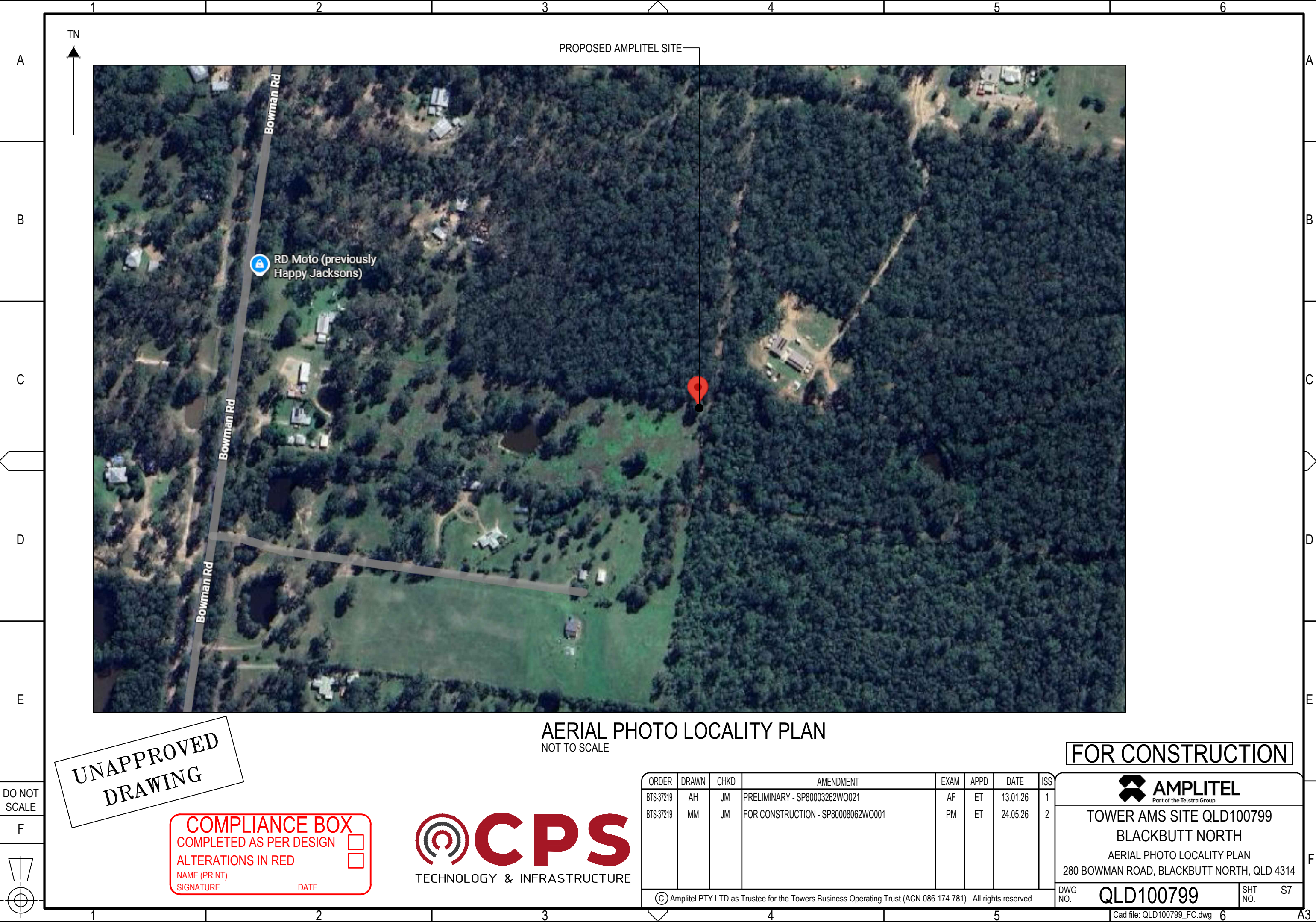
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A3V



CPS
TECHNOLOGY & INFRASTRUCTURE



PROPOSED AMPLITEL SITE

RD Moto (previously Happy Jacks)

Bowman Rd

AERIAL PHOTO LOCALITY PLAN

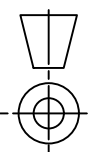
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SIGNATURE

DATE



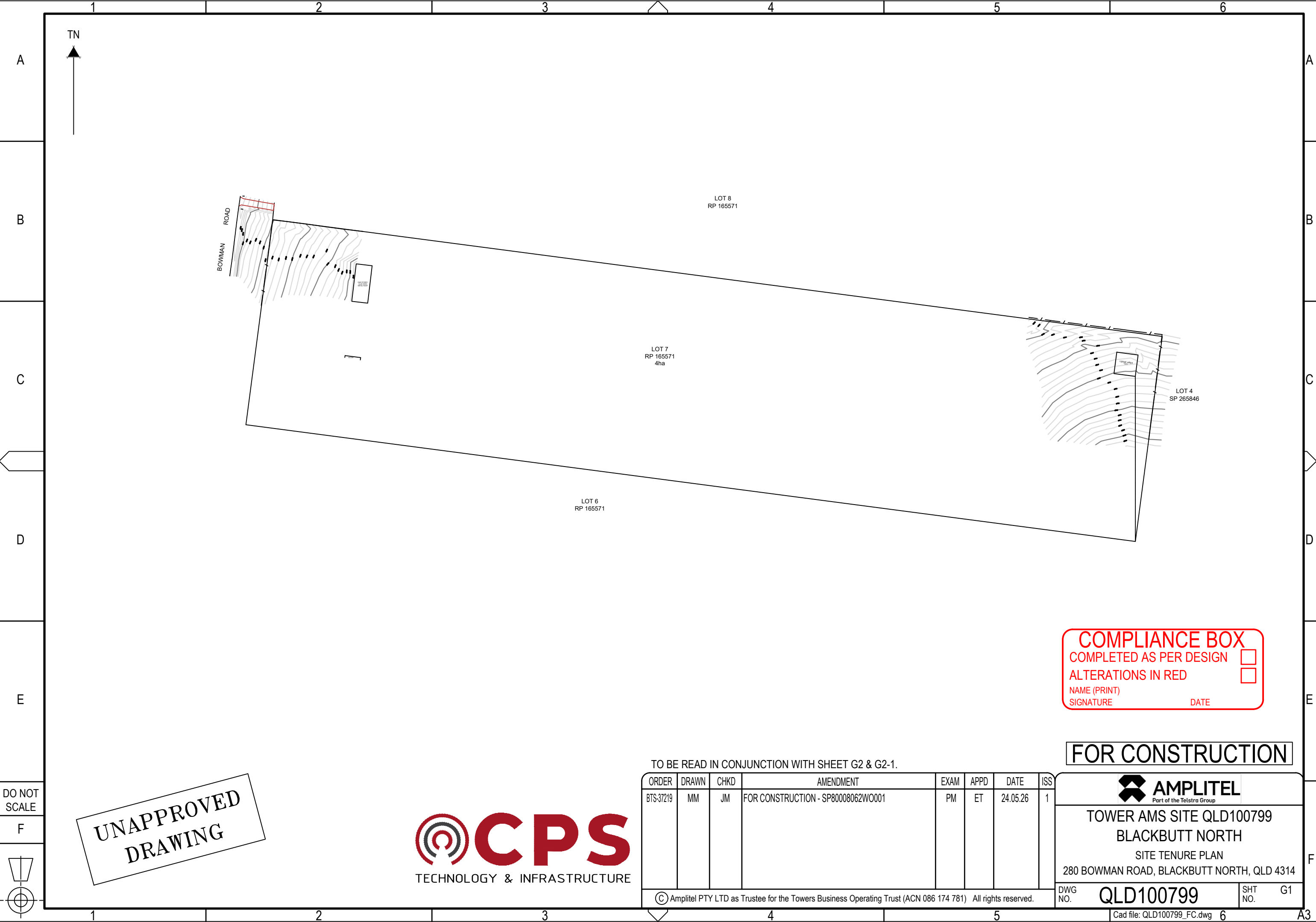
ORDER	DRAWN	CHKD	AMENDMENT	EXAM	APPD	DATE	ISS
BTS-37219	AH	JM	PRELIMINARY - SP80003262WO021	AF	ET	13.01.26	1
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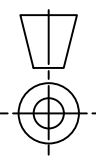
TOWER AMS SITE QLD100799
BLACKBUTT NORTH
AERIAL PHOTO LOCALITY PLAN
280 BOWMAN ROAD, BLACKBUTT NORTH, QLD 4314

DWG NO. QLD100799 SHT NO. S7



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DRAWING



TO BE READ IN CONJUNCTION WITH SHEET G2 & G2-1.

ORDER	DRAWN	CHKD	AMENDMENT	EXAM	APPD	DATE	ISS
BTS-37219	MM	JM	FOR CONSTRUCTION - SP80008062WO001	PM	ET	24.05.26	1

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COMPLIANCE BOX

COMPLETED AS PER DESIGN ☐

ALTERATIONS IN RED ☐

NAME (PRINT) _____

SIGNATURE _____ DATE _____

FOR CONSTRUCTION

**AMPLITEL**
Part of the Telstra Group

TOWER AMS SITE QLD100799
BLACKBUTT NORTH
SITE TENURE PLAN
280 BOWMAN ROAD, BLACKBUTT NORTH, QLD 4314

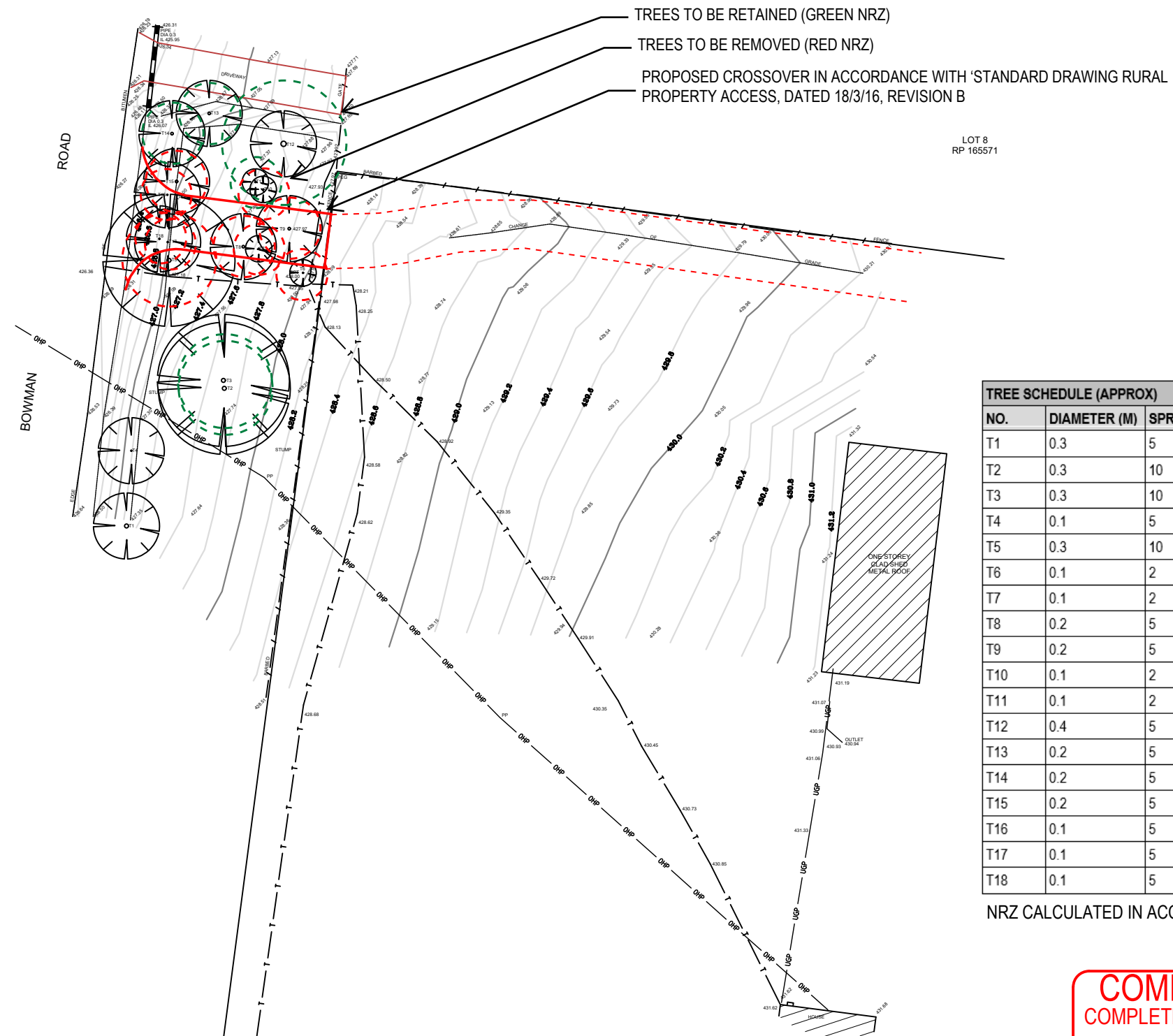
DWG NO. **QLD100799**

SHT NO. **G1**

The diagram illustrates the vertical arrangement of various road features relative to the road centerline. The features, from top to bottom, are:

- Major Contour**: Represented by a single horizontal line.
- Minor Contour**: Represented by a single horizontal line.
- Approx. Location Underground Sewer Mains**: Represented by a line with four 'S' markers.
- Approx. Location Underground Water Mains**: Represented by a line with four 'W' markers.
- Approx. Location U'ground Telecommunications Line**: Represented by a line with four 'T' markers.
- Approx. Location Overhead Telecommunications Line**: Represented by a line with four 'OT' markers.
- Approx. Location Underground Gas Mains**: Represented by a line with four 'G' markers.
- Approx. Location Overhead Power Supply**: Represented by a line with four 'OHP' markers.
- Back of Kerb**: Represented by a single horizontal line.
- Edge of Bitumen**: Represented by a single horizontal line.
- Top of bank**: Represented by a single horizontal line.
- Bottom of bank**: Represented by a single horizontal line.

○ PP	Power Pole
□ PB	Power Box
○ SP	Service Pole
⚙ LP	Light Pole
○ HYD	Hydrant
□ WM	Water Meter
X SV	Stop Valve
○ SMH	Sewer Maintenance Hole
○ SIO	Sewer Inspection Opening
⊙ SEVT	Sewer Vacuum Tank
□ SEPT	Sewer Control Pit
▬ CPT	Telecommunications Pit
⊠	Gas Meter
	Kerb Inlet Stormwater Pit
	Grated Stormwater Pit
▲	Benchmark
①	Photo Aspect
3.53+	Gutter Level
0.82+	Ridge Level
	Tree
GDN	Garden



TREE SCHEDULE (APPROX)					
NO.	DIAMETER (M)	SPREAD	HEIGHT	NRZ (m)	STATUS
T1	0.3	5	12	3.6	RETAIN
T2	0.3	10	25	3.6	RETAIN
T3	0.3	10	25	3.6	RETAIN
T4	0.1	5	10	2.0	RETAIN
T5	0.3	10	25	3.6	REMOVE
T6	0.1	2	10	2.0	REMOVE
T7	0.1	2	10	2.0	REMOVE
T8	0.2	5	15	2.4	REMOVE
T9	0.2	5	15	2.4	REMOVE
T10	0.1	2	10	2.0	REMOVE
T11	0.1	2	10	2.0	RETAIN
T12	0.4	5	25	4.8	RETAIN
T13	0.2	5	20	2.4	RETAIN
T14	0.2	5	20	2.4	RETAIN
T15	0.2	5	20	2.4	REMOVE
T16	0.1	5	8	2.0	REMOVE
T17	0.1	5	10	2.0	REMOVE
T18	0.1	5	10	2.0	REMOVE

NRZ CALCULATED IN ACCORDANCE WITH AS4970-2025

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FOR CONSTRUCTION



TOWER AMS SITE QLD100799
BLACKBUTT NORTH

SITE DETAIL SURVEY - SHEET 1 OF 2
280 BOWMAN ROAD, BLACKBUTT NORTH, QLD 4314

DWG NO.	QLD100799	SHT NO.	G2
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SITE DETAIL SURVEY

SCALE 1:400

TO BE READ IN CONJUNCTION WITH SHEET G1.

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LEGEND:

- Major Contour

Minor Contour

Approx. Location Underground Sewer Mains

Approx. Location Underground Water Mains

Approx. Location U'ground Telecommunications Line

Approx. Location Overhead Telecommunications Line

Approx. Location Underground Gas Mains

Approx. Location Overhead Power Supply

Back of Kerb

Edge of Bitumen

Top of bank

Bottom of bank
- PP

PB

SP

LP

HYD

WM

SV

SMH

SIO

SEVT

SEPIT

CPT

Gas Meter

Kerb Inlet Stormwater Pit

Grated Stormwater Pit

Benchmark

Photo Aspect

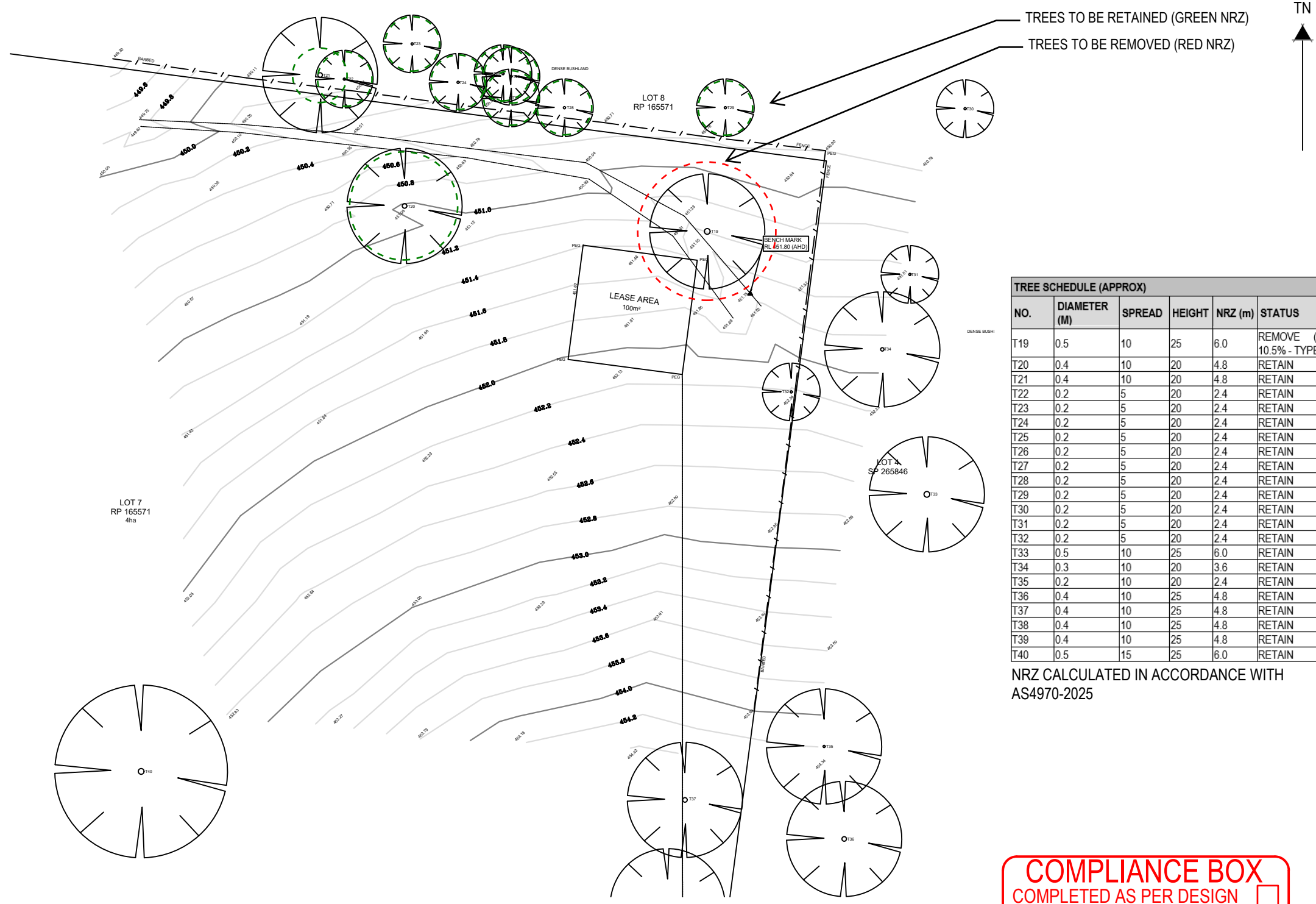
Gutter Level

Ridge Level

Tree

GDN

Garden



TREE SCHEDULE (APPROX)					
NO.	DIAMETER (M)	SPREAD	HEIGHT	NRZ (m)	STATUS
T19	0.5	10	25	6.0	REMOVE (ENC 10.5% - TYPE B)
T20	0.4	10	20	4.8	RETAIN
T21	0.4	10	20	4.8	RETAIN
T22	0.2	5	20	2.4	RETAIN
T23	0.2	5	20	2.4	RETAIN
T24	0.2	5	20	2.4	RETAIN
T25	0.2	5	20	2.4	RETAIN
T26	0.2	5	20	2.4	RETAIN
T27	0.2	5	20	2.4	RETAIN
T28	0.2	5	20	2.4	RETAIN
T29	0.2	5	20	2.4	RETAIN
T30	0.2	5	20	2.4	RETAIN
T31	0.2	5	20	2.4	RETAIN
T32	0.2	5	20	2.4	RETAIN
T33	0.5	10	25	6.0	RETAIN
T34	0.3	10	20	3.6	RETAIN
T35	0.2	10	20	2.4	RETAIN
T36	0.4	10	25	4.8	RETAIN
T37	0.4	10	25	4.8	RETAIN
T38	0.4	10	25	4.8	RETAIN
T39	0.4	10	25	4.8	RETAIN
T40	0.5	15	25	6.0	RETAIN

NRZ CALCULATED IN ACCORDANCE WITH AS4970-2025

SITE DETAIL SURVEY
SCALE 1:400

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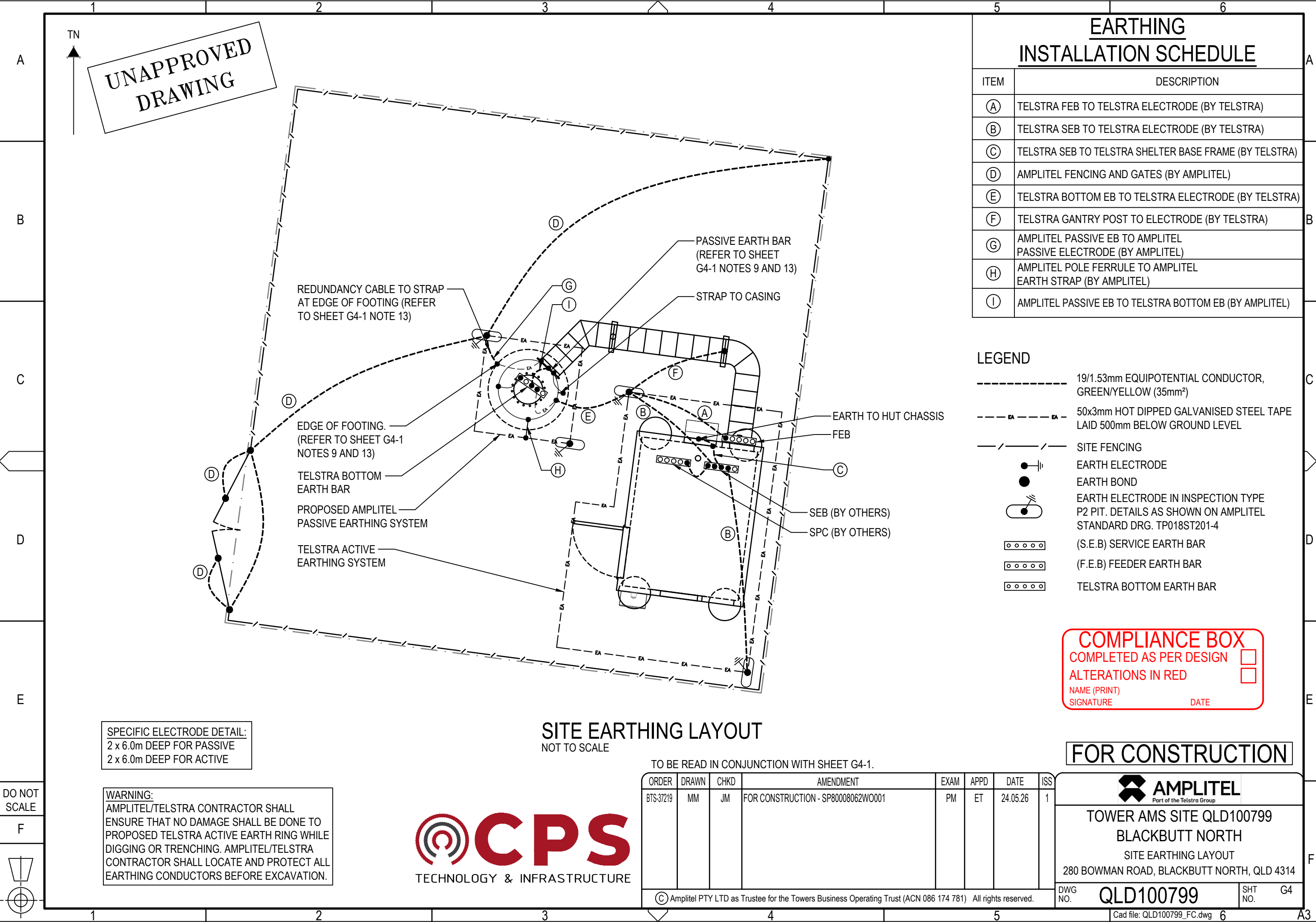
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DWG NO.

QLD100799

SHT NO.

G2-1



EARTHING INSTALLATION SCHEDULE

ITEM	DESCRIPTION
(A)	TELSTRA FEB TO TELSTRA ELECTRODE (BY TELSTRA)
(B)	TELSTRA SEB TO TELSTRA ELECTRODE (BY TELSTRA)
(C)	TELSTRA SEB TO TELSTRA SHELTER BASE FRAME (BY TELSTRA)
(D)	AMPLITEL FENCING AND GATES (BY AMPLITEL)
(E)	TELSTRA BOTTOM EB TO TELSTRA ELECTRODE (BY TELSTRA)
(F)	TELSTRA GANTRY POST TO ELECTRODE (BY TELSTRA)
(G)	AMPLITEL PASSIVE EB TO AMPLITEL PASSIVE ELECTRODE (BY AMPLITEL)
(H)	AMPLITEL POLE FERRULE TO AMPLITEL EARTH STRAP (BY AMPLITEL)
(I)	AMPLITEL PASSIVE EB TO TELSTRA BOTTOM EB (BY AMPLITEL)

LEGEND

- 19/1.53mm EQUIPOTENTIAL CONDUCTOR, GREEN/YELLOW (35mm²)
- - - - - 50x3mm HOT DIPPED GALVANISED STEEL TAPE LAID 500mm BELOW GROUND LEVEL
- / - / - SITE FENCING
- EARTH ELECTRODE
- EARTH BOND
- EARTH ELECTRODE IN INSPECTION TYPE P2 PIT. DETAILS AS SHOWN ON AMPLITEL STANDARD DRG. TP018ST201-4
- ○ ○ ○ ○ (S.E.B) SERVICE EARTH BAR
- ○ ○ ○ ○ (F.E.B) FEEDER EARTH BAR
- ○ ○ ○ ○ TELSTRA BOTTOM EARTH BAR

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SPECIFIC ELECTRODE DETAIL:
2 x 6.0m DEEP FOR PASSIVE
2 x 6.0m DEEP FOR ACTIVE

WARNING:
AMPLITEL/TELSTRA CONTRACTOR SHALL ENSURE THAT NO DAMAGE SHALL BE DONE TO PROPOSED TELSTRA ACTIVE EARTH RING WHILE DIGGING OR TRENCHING. AMPLITEL/TELSTRA CONTRACTOR SHALL LOCATE AND PROTECT ALL EARTHING CONDUCTORS BEFORE EXCAVATION.

SITE EARTHING LAYOUT

NOT TO SCALE



TO BE READ IN CONJUNCTION WITH SHEET G4-1.

ORDER	DRAWN	CHKD	AMENDMENT	EXAM	APPD	DATE	ISS
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FOR CONSTRUCTION

AMPLITEL
Part of the Telstra Group

TOWER AMS SITE QLD100799
BLACKBUTT NORTH
SITE EARTHING LAYOUT
280 BOWMAN ROAD, BLACKBUTT NORTH, QLD 4314

DWG NO. **QLD100799** SHT NO. **G4**

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NOTES:

1. REFER TO DRAWING TP018ST204-1 FOR CONCRETE POLE - BORED FOOTING. REFER TO TP018ST204-2 FOR CONCRETE POLE EARTHING DETAILS.

2. ALL EARTH STRAPS TO BE 50 x 3mm HOT DIPPED GALVANISED MS FLAT AND LAID FLAT TO A MIN DEPTH OF 500mm. REFER TO DRAWING TP018ST201-10 FOR DETAILS.

3. THE SITE SHALL CONSIST OF A PASSIVE (STRUCTURE EARTH) AND AN ACTIVE EARTH (SHELTER SERVICE EARTH). THESE SYSTEMS ARE TO BE CONSTRUCTED TO BE MAINTAINED SEPARATE. THE NUMBER AND DEPTH OF EARTH ELECTRODES ARE TO BE BASED ON A RESISTIVITY SURVEY. ELECTRODES ARE TO BE SOLID STAINLESS STEEL. STANDARD LENGTH IS A MINIMUM OF 3m. SPECIFIC ELECTRODE DETAIL 2 x 6m DEEP FOR PASSIVE AND 2 x 6m DEEP FOR ACTIVE. WHERE THE STANDARD LAYOUT IS DETERMINED NOT TO MEET EXPECTED DESIGN RESISTANCE SPECIFICATIONS. THE PASSIVE EARTH MAY BE EXTENDED WITHIN THE EXTENT OF THE COMPOUND (PASSIVE EARTH EXTENSION).

4. A PASSIVE EARTH BAR IS REQUIRED TO BE INSTALLED ON A CONCRETE POLE. THIS EARTH BAR SERVES FOR EARTH CONNECTIONS TO THE PASSIVE EARTH AND AN INTERCONNECT POINT FOR TELSTRA. SEE DRAWING TP018ST204-1 FOR INTERCONNECT DETAILS. PASSIVE EARTH BAR TO BE INSTALLED FAR ENOUGH BELOW FEEDER WINDOW TO ALLOW SPACE FOR CABLE TRAY AND TELSTRA EARTH BAR. SEE DRAWING TP018ST201-6 FOR MOUNTING OPTIONS.

5. THE CALCULATED EARTH RESISTANCE FOR ACTIVE AND PASSIVE EARTHING SYSTEMS IS 4.5 OHMS. EARTH RESISTANCE MEASUREMENTS SHALL BE UNDERTAKEN AS PER WORK INSTRUCTION TP108G05, RESULTS ARE TO BE RECORDED ON FORM TP018F02.

6. IF OBJECTIVE 5 OHMs OR LESS EARTHING SYSTEM RESISTANCE IS NOT ACHIEVED, REPORT RESULTS TO CPS ELECTRICAL ENGINEER.

7. THE PASSIVE EARTH BAR IS TO BE BONDED TO THE PASSIVE EARTH SYSTEM VIA BOTH A 3mm x 50mm GAL STRAP AND A 35mm² G/Y INSULATED CABLE. CONDUITS ARE TO BE RETROFITTED WITHIN THE SLAB TO CATER FOR EARTH CABLES FOR BOTH THE PASSIVE EARTH AND TELSTRA ACTIVE EARTH INTERCONNECTIONS.

8. THE POLE LOWER EARTH FERRULE IS TO BE BONDED TO THE PASSIVE EARTH SYSTEM VIA 3mm x 50mm GAL STRAP. POLE EARTH FERRULES ARE 12mm AND ARE LOCATED BENEATH THE FEEDER WINDOW AND ON OPPOSITE SIDE OF THE POLE.

9. ALL CONNECTIONS TO EARTH ELECTRODES AND JOINTS ARE TO BE PROTECTED WITH DENSO TAPE. THIS METHOD IS TO PREVENT COPPER THEFT. REFER TO DRAWINGS TP018ST201-10 AND TP018ST201-11 FOR DETAILS.

10. WHERE ELECTRODES CANNOT BE DRIVEN, OR EARTH RESISTIVITY IS HIGH, DEEP DRILLED ELECTRODES MAY NEED TO BE INSTALLED. BACKFILL WITH EARTH ENHANCING MATERIAL - APPROVED TYPE : CALCIUM BENTONITE AND GYPSUM SLURRY.

11. WHERE FENCING IS REQUIRED BONDING SHALL BE UNDERTAKEN FROM THE PASSIVE EARTH SYSTEM. INTERCONNECT TO FENCE POSTS AT GATE AS SHOWN AND ALSO TO ADDITIONAL FENCE POST AT OPPOSITE SIDE OF THE COMPOUND. REFER TO DRAWINGS TP018ST201-1 AND TP018ST201-2.

12. TELSTRA SHALL BE RESPONSIBLE FOR THE FOLLOWING EARTHING CONNECTIONS:

- FEEDER EARTHING
- HEAD FRAME EARTHING TO UPPER EARTH FERRULE
- POLE FEEDER EARTH BARS, BOTTOM AND TOP IF REQUIRED
- INSTALLATION OF DOWN-CONDUCTORS BETWEEN HEAD FRAME AND LOWER FEB
- GANTRY EARTHING
- SHELTER INTERNAL EQUIPMENT EARTHING
- TOWER EXTERNAL EQUIPMENT EARTHING
- BONDING TO THE AMPLITEL STRUCTURE EARTH SHALL BE BOTH STRAP AND INSULATED CABLE TO ENSURE EQUIPOTENTIAL BONDING IN THE EVENT OF STRAP CORROSION. A SINGLE BOND CONSISTING OF 35mm² G/Y CABLE MAY BE UTILISED WITHOUT STRAP.
- SEPARATE CONNECTIONS SHALL BE IN THE FORM OF CLEATS FOR STEEL STRUCTURES AND LUGGED CONNECTIONS TO FEEDER EARTH BARS ON CONCRETE POLES. NO DRILLING OF STRUCTURES IS PERMITTED .
- AMPLITEL EARTH CONNECTIONS TO STRUCTURES SHALL NOT BE DISTURBED UNLESS PART OF AN AGREED STRENGTHENING REQUIREMENT OR HAS BEEN APPROVED DIRECTLY BY AMPLITEL.
- INSTALLED EARTH STRAP AND EARTH ELECTRODES/PITS SHALL BE MAINTAINED AT A MINIMUM DISTANCE OF 300mm FROM ANY AMPLITEL IN-GROUND EARTHING SYSTEMS.
- SHELTERS/CABINETS AND STRUCTURES SHALL NOT BE INSTALLED WITHIN 500mm OF AMPLITEL EARTH PITS.

13. A REDUNDANCY (35mm² G/Y) CABLE SHALL BE INSTALLED FROM THE PASSIVE EARTH ELECTRODE TERMINATING TO THE EARTH STRAP AT THE EDGE OF THE FOOTING. THE EDGE OF THE FOOTING PROVIDES A POINT OF CONNECTION BETWEEN THE REDUNDANCY CABLE AND THE EARTH STRAP THAT CONNECTS TO THE AMPLITEL PASSIVE EARTH BAR (PEB). TERMINATE AT EDGE OF FOOTING BELOW GROUND LEVEL TO CONCEAL CABLE FROM VISIBILITY AND TO PREVENT COPPER THEFT. REFER TO DRAWINGS TP018ST201-6 AND TP018ST201-9 FOR DETAILS.

14. WHERE A CASING IS TO BE USED, AND REMAIN IN-SITU POST-BUILD, THAT CASING SHALL BE BONDED TO THE STRUCTURE PASSIVE EARTH BAR VIA A 3mm x 50mm GAL STRAP, TO REDUCE RESISTIVITY. IF PILE CAP INSTALLED, INSTALL G/Y REDUNDANCY CABLE FROM CASING CLEAT TO CASING EARTH STRAP JUST BELOW WHERE IT EXITS THE GROUND ENROUTE TO PEB. TERMINATION TO THE CASING IS TO BE VIA A CLEAT ATTACHED NEAR THE TOP OF THE CASING. THE ATTACHMENT OF THE CLEAT IS TO BE VIA DOUBLE BOLTING IF BEING ATTACHED PRIOR TO CONCRETE POUR. OTHERWISE, THE CLEAT IS TO BE WELDED TO THE CASING.STANDARD CLEAT DOUBLE BOLTED TO CASING, OR 50 x 50 x 10 CLEAT WELDED TO CASING, CLEAT, LUGS AND CONNECTIONS TO BE SEALED WITH DENSO.

15. ALL UNDERGROUND CONNECTIONS TO BE WRAPPED IN DENSO TAPE. ALL ABOVE GROUND CONNECTIONS (NOTE EARTH BARS) ARE TO HAVE THE PLUG SEALED WITH DENSO, ENSURE COMPRESSION HOLE SEALED.

16. REFER TO THE SITE MOST RECENT GEOTECHNICAL REPORT FOR DETAILS ON SOIL LAYERS TYPE AND SOIL RESISTIVITY TESTS.

17. EARTH BONDING TERMINAL (EBT) SHALL BE INSTALLED AS PER AS/NZS 3015 CLAUSE 5.4.2 AND FIGURE 5.1 OF THE SAME STANDARD.

18. REFER TO AS/NZS 3000, AS/NZS 3015 AND AS/ACIF S009 FOR DETAILS ON EARTHING SYSTEM ARRANGEMENT.

DO NOT SCALE

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TO BE READ IN CONJUNCTION WITH SHEET G4.

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FOR CONSTRUCTION

TOWER AMS SITE QLD100799
BLACKBUTT NORTH
SITE EARTHING NOTES
280 BOWMAN ROAD, BLACKBUTT NORTH, QLD 4314

DWG NO. **QLD100799** SHT NO. G4-1

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TELSTRA ELECTRICAL AND EARTHING SPECIFICATION:

1. GENERAL

ALL ELECTRICAL WORKS SHALL BE IN ACCORDANCE WITH:

- SHEET QLD100799-E2
- AMPLITEL CIVIL DESIGN MANUAL TP018G01
- AMPLITEL CIVIL DESIGN EARTHING MANUAL TP018G03
- AS/NZS 3000, AS/NZS 3008, AS/NZS 1768, AS/NZS 61439, AS/NZS 3015, AS/NZS 3010, AS/NZS 4961, AS/NZS 1939, AS/NZS 2648, AS/NZS 3017 AND AS/ACIF S009 (LATEST EDITIONS AND AMENDMENTS AT TIME OF CONSTRUCTION SHALL APPLY).
- ALL COMPONENTS INSTALLATION MANUALS AND WARRANTY CONDITIONS AS SPECIFIED
- NATIONAL METERING INSTALLATION REQUIREMENTS (MIR)
- QUEENSLAND ELECTRICITY CONNECTION MANUAL (QECM)
- ANY OTHER RELEVANT NATIONAL/STATE RULES AND REGULATIONS

CONTRACTOR SHALL:

- COMPLY WITH ALL LOCAL, STATE AND TERRITORY WORK HEALTH AND SAFETY REGULATIONS AND LEGISLATIONS
- APPLY REASONABLE MEASURES AND STEPS TO ACCESS AND OBTAIN INFORMATION ON SERVICES PRESENT ON SITE PRIOR TO COMMENCING ANY WORK (CONSTRUCTION AND/OR EXCAVATION) VIA BEFORE YOU DIG AUSTRALIA (BYDA) SEARCH OR ANY OTHER LEGITIMATE MEANS/SOURCES
- MAKE THEMSELVES AWARE OF ALL SITE CONDITIONS AND SAFETY REQUIREMENTS PRIOR TO COMMENCING WORK ON SITE
- REINSTATE AND MAKE GOOD OF ALL DISTURBED KERBS, SURFACES, GUTTERS, INVERTS, VEHICLE CROSSING AND PAVEMENTS DURING WIRING INSTALLATIONS
- ENSURE REASONABLE AND ADEQUATE CLEARANCE ESTABLISHED BETWEEN PROPOSED ELECTRICAL INSTALLATIONS AND EXISTING SERVICES (UNDERGROUND, OVERHEAD, SURFACE MOUNTED, RISER, ETC.) AS PER AS/NZS 3000
- ENSURE FAULT CURRENT RATINGS OF PROTECTIVE EQUIPMENT INSTALLED ARE ADEQUATE FOR PROSPECTIVE FAULT LEVELS
- ENSURE CABLE PULLING TENSION AND MINIMUM INSTALLED BENDING RADIUS AS PER CABLE SPECIFICATIONS AND CABLE ROUTES SHALL BE AS DIRECT AS POSSIBLE
- ENSURE UNDERGROUND ELECTRICAL CABLES (CATEGORY A WIRING SYSTEM) INSTALLED IN MINIMUM 500mm DEPTH MAINTAINED THROUGHOUT ENTIRE LENGTH/ROUTE AS PER AS/NZS 3000
- ENSURE ALL EXPOSED CABLE, CONDUITS AND NON-METALLIC FASTENERS BE UV RESISTANT AND ADEQUATELY SECURED TO SURFACE, CABLE TRAY, OR STRUCTURE
- ENSURE NO OBSTRUCTIONS PRESENT WITHIN CONDUIT DURING CABLE PULLING
- INSTALL UNDERGROUND/SURFACE MOUNTED ELECTRICAL CABLES IN ORANGE COLOUR HEAVY DUTY RIGID PVC CONDUIT AS PER AS/NZS 3000
- INSTALL ORANGE MARKER TAPE INSTALLED 250mm ABOVE ENTIRE LENGTH OF UNDERGROUND CONDUIT TO PROVIDE EARLY DETECTION OF UNDERGROUND WIRING SYSTEM AS PER SPECIFIED DEPTH IN AS/NZS 3000 AND AS/NZS 2648
- INSTALL ELECTRICAL CABLES WITH MINIMAL DISTURBANCE TO EXISTING TREES, VEGETATIONS AND OTHER SERVICES
- PROVIDE PERMANENT, INDELIBLE, LEGIBLE, WITH ACCURATE DIMENSIONS, SUPPLY ARRANGEMENT DIAGRAM(S) PLAN, IN METERING ENCLOSURE, INDICATING CABLES SIZE, TYPE, LENGTH, METHOD OF INSTALLATIONS AND DIRECTIONS
- TELSTRA ELECTRICAL METER AND/OR DISTRIBUTION BOARD(S) INTERNAL WIRINGS SHALL BE MINIMUM OF 16mm² SDI
- PROPOSED TELSTRA ELECTRICAL PIT SHALL BE INSTALLED EVERY 50 METERS FOR UNDERGROUND SUBMAINS.

2. MAIN SUPPLY

AMPLITEL TO DEPLOY A NEW TELECOMMUNICATION INFRASTRUCTURE INSIDE LOT 7 (#RP165571). ERGON ENERGY CONTRACTOR SHALL UPGRADE EXISTING POLE MOUNTED TRANSFORMER (TX8330) ON EXISTING ERGON ENERGY SERVICE POLE (#3196298) TO 63kVA 3-PHASE. ERGON ENERGY CONTRACTOR SHALL UPGRADE EXISTING LOW VOLTAGE WIRE MAINS BETWEEN ERGON ENERGY SERVICE POLES #3196301 AND #3196296 TO B495 AERIAL BUNDLED CONDUCTOR (ABC). FOR MORE DETAILS ON THE NETWORK UPGRADE SCOPE OF WORKS, REFER TO ERGON ENERGY CONTRACT WITH WORK REQUEST NUMBER #2103859.

EXISTING PROPERTY LOT POINT OF SUPPLY IS EXISTING TERMINATION ENCLOSURE (POS) ON TOP OF HOUSE FASCIA. EXISTING OH SERVICE MAINS BETWEEN EXISTING ERGON ENERGY SERVICE POLE (#3196306) AND TERMINATION ENCLOSURE (POS) ON TOP OF HOUSE FASCIA SHALL BE REMOVED AND RECOVERED BY ERGON ENERGY CONTRACTOR. ERGON ENERGY CONTRACTOR SHALL INSTALL NEW SERVICE LINE ORIGINATING FROM EXISTING ERGON ENERGY SERVICE POLE (#3196306) TO PROPOSED TERMINATION ENCLOSURE (POS) ON PROPOSED PRIVATE PROPERTY POLE (LOCATED WITHIN SUBJECT PROPERTY BOUNDARY). 80A THREE PHASE AC POWER SUPPLY FOR ENTIRE PROPERTY LOT SHALL ORIGINATE FROM THIS POINT OF SUPPLY (POS). AMPLITEL/TELSTRA POINT OF SUPPLY SHALL BE PROPOSED FREE-STANDING GROUP METER PANEL NEAR PROPOSED PRIVATE PROPERTY POLE WITHIN SUBJECT PROPERTY BOUNDARY. 50A THREE PHASES FOR TELSTRA SHALL BE ORIGINATED FROM PROPOSED FREE-STANDING GROUP METER PANEL. REFER TO QLD100799-S1 FOR INDICATIVE LOCATION OF PROPOSED FREE-STANDING GROUP METER PANEL. FOR PROPOSED WORKS TO TAKE PLACE, PROPERTY AC POWER SUPPLY SHUT DOWN WILL BE REQUIRED. ALTERNATIVE TEMPORARY SUPPLY AND ADEQUATE FUEL TO BE PROVIDED BY TELSTRA CONTRACTOR FOR DURATION OF ENTIRE SHUT DOWN PERIOD. HOUSE OWNER APPROVAL REQUIRED PRIOR TO SHUTDOWN. CONTRACTOR SHALL ENDEAVOUR TO KEEP SHUT DOWN PERIOD AS SHORT AS POSSIBLE. LIVE WORKS SHALL NOT BE CONDUCTED.

3. SERVICE MAINS

A - ERGON ENERGY CONTRACTOR SHALL INSTALL PROPOSED SERVICE MAINS, 4 x 1C 25mm² AL XLPE ABC OVERHEAD CABLE RUNNING FROM EXISTING ERGON ENERGY SERVICE POLE (#3196306) TO PROPOSED PRIVATE POLE (WITHIN SUBJECT PROPERTY). TOTAL CABLE LENGTH 40.0m.

4. CONSUMER MAINS

B - AMPLITEL CONTRACTOR SHALL INSTALL PROPOSED CONSUMER MAINS, 4 x 1C 25mm² CU/XLPE/PVC UG/OH, RUNNING FROM TOP OF PROPOSED PRIVATE POLE TO PROPOSED GROUP METER PANEL. APPROXIMATE CONSUMER MAINS LENGTH, 10m. CALCULATED VOLTAGE DROP 0.29% AT 80A THREE PHASES LOAD. INSTALL WIRING UG/OH IN 63mm HEAVY-DUTY ORANGE uPVC CONDUIT (WHERE UNDERGROUND CONDUIT SHALL BE INSTALLED AT MINIMUM DEPTH OF 500mm AS PER CATEGORY A WIRING SYSTEM AS PER AS/NZS 3000). EXISTING SURFACE MOUNTED CONSUMER MAINS BETWEEN EXISTING TERMINATION ENCLOSURE ON TOP OF HOUSE FASCIA TO EXISTING HOUSE METER PANEL (NEWLY CONVERTED TO HOUSE DB) SHALL BE REMOVED AND RECOVERED. UNDERGROUND SERVICE SEARCH SHALL BE COMPLETED BETWEEN PROPOSED PRIVATE POLE AND PROPOSED GMP FOR NEW CONSUMER MAINS U/G ROUTE PRIOR TO INSTALLATION.

DO NOT SCALE

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TECHNOLOGY & INFRASTRUCTURE

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TOWER AMS SITE QLD100799

BLACKBUTT NORTH

ELECTRICAL SPECIFICATION - SHEET 1 OF 2

280 BOWMAN ROAD, BLACKBUTT NORTH, QLD 4314

DWG NO. QLD100799

SHT NO. E0

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TELSTRA ELECTRICAL AND EARTHING SPECIFICATION:

5. PROPOSED FREE-STANDING GROUP METER PANEL

INSTALL PROPOSED FREE-STANDING GROUP METER PANEL IN READILY ACCESSIBLE AND LOCKABLE POSITION. REFER TO QLD100799-S1 FOR APPROXIMATE INSTALLATION LOCATION DETAILS. NOTE: UNRESTRICTED AND UNHINDERED ACCESS TO PROPOSED GROUP METER PANEL IS REQUIRED FOR POWER AUTHORITY PERSONNEL. PROPOSED FREE-STANDING GROUP METER PANEL SHALL WITHSTAND ULTIMATE MAXIMUM LV FAULT CURRENT SUPPLYING POWER NETWORK. PROPOSED FREE-STANDING GROUP METER PANEL SHALL HOST THE FOLLOWINGS:

- INSTALL PROPOSED 1 x 80A THREE POLE MCB AS SPD
- INSTALL PROPOSED TELSTRA WHOLE METER AND ASSOCIATED SERVICE FUSES
- INSTALL PROPOSED 1 x 50A THREE PHASE TYPE C MCB 10kA I_{sc} AS TELSTRA MAIN SWITCH
- RELOCATED SINGLE PHASE HOUSE METER AND ASSOCIATED SERVICE FUSE
- INSTALL PROPOSED 1 x 63A SINGLE PHASE TYPE C MCB 10kA I_{sc} AS HOUSE MAIN SWITCH
- NEW ACTIVE AND NEUTRAL LINKS, RATED FOR MINIMUM 100A
- NEW M.E.N LINK AND ASSOCIATED EARTHING ELECTRODE
- PROVISION FOR 1-OFF FUTURE 3-PHASE ELECTRICITY METER AND ASSOCIATED PROTECTION DEVICES

EXISTING HOUSE METER PANEL SHALL BE CONVERTED INTO HOUSE DISTRIBUTION BOARD AND SHALL BE RELABELLED. PROPOSED MEN LINK SHALL BE INSTALLED AT PROPOSED FREE-STANDING GROUP METER PANEL. AMPLITEL CONTRACTOR SHALL ENSURE HOUSE DOES NOT HAVE SEPARATE (LOCAL) MEN LINKS AT ITS INTERNAL NOR EXTERNAL DISTRIBUTION BOARDS. TELSTRA AND HOUSE SAFETY EARTH SHALL BE TAKEN FROM PROPOSED MAIN PROTECTIVE EARTH BAR IN PROPOSED FREE-STANDING GROUP METER PANEL. TELSTRA AND HOUSE NEUTRAL SHALL BE TAKEN FROM PROPOSED MAIN NEUTRAL BAR IN PROPOSED FREE-STANDING GROUP METER PANEL. PROPOSED FREE- STANDING GROUP METER PANEL SHALL COMPLY WITH ERGON ENERGY REQUIREMENTS.

- AMPLITEL CONTRACTOR SHALL ENSURE FAULT CURRENT RATINGS OF INSTALLED PROTECTIVE EQUIPMENT ARE ADEQUATE FOR PROSPECTIVE FAULT LEVELS.
- AMPLITEL CONTRACTOR SHALL LIAISE WITH ERGON ENERGY FOR ALL METERING REQUIREMENTS PRIOR TO ANY ALTERATION, RELOCATION AND/OR INSTALLATION WORKS.
- AMPLITEL BUILD CONTRACTOR SHALL REVALIDATE ALL POWER APPROVAL PRIOR TO COMMENCEMENT OF BUILD WORKS.
- AMPLITEL CONTRACTOR SHALL PROVIDE ELECTRICAL COMPLIANCE CERTIFICATE FOR COMPLETED ELECTRICAL WORKS.
- AMPLITEL CONTRACTOR SHALL PROVIDE PHOTOS OF ALL COMPLETED ELECTRICAL WORK SHOWING SITE CIRCUIT BREAKERS VALUES, SPD SIZE AND SETTING, METERING (NMI NUMBER), MAIN ELECTRICAL EARTHING ELECTRODE LABEL AND ANY TRENCHING AND CONDUIT RUN.
- PHOTOS SHALL CLEARLY SHOW PROTECTION DEVICES AND ELECTRICAL INSTALLATIONS SPECIFICATIONS/RATINGS.
- PROPOSED GROUP METER PANEL SHALL BE MANUFACTURED AS PER AS61439. AMPLITEL CONTRACTOR SHALL SUPPLY REQUIRED TEST REPORTS AS PER SWITCHBOARD COMPLIANCE STATEMENT.

6. SUBMAINS

C - AMPLITEL CONTRACTOR SHALL INSTALL PROPOSED UNDERGROUND HD uPVC 80mm SPARE CONDUITS ADJACENT TO PROPOSED TELSTRA CONDUIT, RUNNING FROM PROPOSED GMP TO AMPLITEL COMPOUND BOUNDARY.
D - AMPLITEL CONTRACTOR SHALL INSTALL PROPOSED 4 x 1C 120mm² AL/XLPE/PVC + 50mm² G/Y PVC EARTH CABLE RUNNING FROM PROPOSED GROUP METER PANEL TO PROPOSED TELSTRA EXTERNAL DISTRIBUTION BOARD ON TELSTRA SHELTER. TELSTRA SUBMAINS SHALL BE INSTALLED UNDERGROUND IN 80mm HD uPVC CONDUIT AT MINIMUM DEPTH OF 500mm AS PER CATEGORY A WIRING SYSTEM AS PER AS/NZS 3000.
APPROXIMATE TELSTRA SUBMAINS LENGTH SHALL BE 410.0m VOLTAGE DROP 2.48% FOR 50A THREE PHASES LOAD. UNDERGROUND SERVICE SEARCH SHALL BE COMPLETED BETWEEN PROPOSED GMP AND PROPOSED TELSTRA DISTRIBUTION BOARD FOR NEW TELSTRA SUBMAINS U/G ROUTE PRIOR TO INSTALLATION.
E - AMPLITEL CONTRACTOR SHALL INSTALL PROPOSED 2 x 1C 70mm² AL/XLPE/PVC+ 16mm² G/Y PVC EARTH CABLE RUNNING FROM PROPOSED GROUP METER PANEL TO EXISTING HOUSE DB (NEWLY CONVERTED INTO DB). APPROXIMATE HOUSE SUBMAINS LENGTH, 100m. CALCULATED VOLTAGE DROP 2.64% AT 63A SINGLE PHASE LOAD. INSTALL WIRING UNDERGROUND AND SURFACE MOUNTED IN 63mm HEAVY-DUTY ORANGE uPVC CONDUIT (WHERE UNDERGROUND CONDUIT SHALL BE INSTALLED AT MINIMUM DEPTH OF 500mm AS PER CATEGORY A WIRING SYSTEM AS PER AS/NZS 3000). UNDERGROUND SERVICE SEARCH SHALL BE COMPLETED BETWEEN PROPOSED GMP AND EXISTING HOUSE DB (NEWLY CONVERTED INTO DB)FOR NEW HOUSE SUBMAINS U/G ROUTE PRIOR TO INSTALLATION.

7. PROPOSED CONNECTION APPLICATION

ERGON ENERGY APPROVED TOTAL LOAD OF 80A THREE PHASES FOR EXISTING HOUSE AND PROPOSED AMPLITEL/TELSTRA COMPOUND.
NEW CONNECTION APPLICATION WORK REQUEST REFERENCE#: CX26BOW0639300A
WORK REQUEST NUMBER: #2103859
NMI NUMBER: 30532698826
ERGON ENERGY PROJECT OFFICER: DEBBIE PHILLIPS
ERGON ENERGY PROJECT OFFICER PHONE NUMBER: 0407570534
AMPLITEL/TELSTRA CONTRACTOR SHALL SUBMIT EWR FORM TO telstraenergyservice@utility.com.au, RELEVANT RETAILER OR DISTRIBUTION COMPANY.
THE BUILD ELECTRICAL CONTRACTOR SHALL REVALIDATE ALL APPROVALS BEFORE COMMENCING WORK.

8. TELSTRA DISTRIBUTION BOARD

TELSTRA EXTERNAL DISTRIBUTION BOARD SHALL HOST THE FOLLOWINGS:

- INSTALL PROPOSED 1 x 50A THREE PHASE DB ISOLATOR
- INSTALL PROPOSED 1 x 50A THREE PHASE TYPE-C MCB AS GENERATOR MAIN SWITCH
- INSTALL PROPOSED 63A THREE PHASE CHANGEOVER SWITCH
- INTERNAL DISTRIBUTION BOARD WIRINGS SHALL BE OF MINIMUM 16mm² SDI
- PROPOSED TELSTRA GPOs INSTALLED SHALL BE PROTECTED BY RCBO TYPE A MINIMUM
- INSTALL PROPOSED LOCAL EARTH AND NEUTRAL BARS (NO MEN LINK)

9. LABELING

FIX STANDARD LABELS TO ALL FUSES, METERS, AND SWITCH POSITIONS IN PROPOSED FREE-STANDING GROUP METER PANEL AND PROPOSED TELSTRA DB ON TELSTRA SHELTER. LABELS TO BE BLACK LETTERING ON WHITE BACKGROUND "TRAFFOLYTE". LETTERING TO BE MINIMUM 10mm HIGH. TEXT TO READ "TELSTRA" AND "HOUSE". INSTALL PERMANENT LABEL ATTACHED TO MAIN ELECTRICAL EARTHING ELECTRODE CONNECTION WITH "WARNING DO NOT DISCONNECT". PROVIDE A LAMINATED COPY OF AC INFRASTRUCTURE SITE LAYOUT - SLD AND (MUD MAP) INDICATING THE CABLE SIZE AND DIRECTION WITH A REFERENCE TO NORTH FOR FUTURE REFERENCE TO BE LEFT IN PROPOSED FREE-STANDING GROUP METER PANEL.

10. EARTHING

REFER TO DETAILED EARTHING DESIGN DRAWINGS QLD100799-G4 AND G4-1.
ALL EARTHING AND BONDING IS TO BE IN ACCORDANCE WITH THE AMPLITEL EARTHING STANDARD DRAWINGS TP018ST204-1, TP018ST204-2 AND TP018G03 CIVIL DESIGN EARTHING MANUAL.
EARTH GRID ELECTRODES: 4 OFF
IF EARTH RESISTANCE OF 5 OHMS OR LESS CANNOT BE ACHIEVED, REPORT THE FINDINGS TO THE ELECTRICAL ENGINEER FOR FURTHER ASSESSMENT AND DIRECTION.

11. GENERATOR SUPPLY

GENERATOR INLET SOCKET SHALL BE 50A 5-PIN CLIPSAL COMPATIBLE.
INSTALL NEW 50A THREE PHASE MCB TYPE C FOR TELSTRA GENSET SUBMAINS. TELSTRA CONTRACTOR SHALL INSTALL GENERATOR INLET SUBMAINS BETWEEN CHANGE-OVER SWITCH AND GENERATOR INLET RATED FOR 50A (REFER TO AS/NZS 3008.1.1 FOR CABLE SIZING).
THE CONTRACTOR SHALL ENSURE ALL EQUIPMENT AND WIRINGS COMPLY WITH AS/NZS 3010 FOR ALTERNATING GENERATOR SUPPLY. CORRECT SWITCHING OF AUXILIARY (PORTABLE GENERATOR) SUPPLY NEUTRAL SHELTER CHANGE OVER SWITCH VIA THE INLET PLUG WILL REQUIRE TO BE CONFIGURED AS PER AS/NZS 3010.

DO NOT SCALE

COMPLIANCE BOX

COMPLETED AS PER DESIGN

ALTERATIONS IN RED

NAME (PRINT)

SIGNATURE

DATE

CPS

TECHNOLOGY & INFRASTRUCTURE

TO BE READ IN CONJUNCTION WITH SHEET E0.

ORDER	DRAWN	CHKD	AMENDMENT	EXAM	APPD	DATE	ISS
BTS-37219	MM	JM	FOR CONSTRUCTION - SP80000062WQ001	PM	ET	24.05.26	1

UNAPPROVED DRAWING

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FOR CONSTRUCTION

AMPLITEL

Part of the Telstra Group

TOWER AMS SITE QLD100799

BLACKBUTT NORTH

ELECTRICAL SPECIFICATION - SHEET 2 OF 2

280 BOWMAN ROAD, BLACKBUTT NORTH, QLD 4314

DWG NO.

QLD100799

SHT NO.

E0-1

Cad file: QLD100799_FC.dwg 6

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