



DRAWING DESCRIPTION	DRAWING NUMBER	SHEET NO.	ISSUE NO.	ISSUE DATE	DRAWING STATUS				
					CANCELLED	PRELIMINARY	FOR CONSTRUCTION	AS BUILT	REFERENCE ONLY
REFERENCE DRAWINGS:									
STANDARD CONSTRUCTION NOTES	TP018ST04	1	1	06/11/23					✓
STANDARD FENCING	TP018ST05	1	1	06/11/23					✓
STANDARD FENCING - GATES	TP018ST06	1	1	06/11/23					✓
DETAILS & CONNECTIONS GALVANISED STEEL BASED SYSTEM	TP018ST201-1	1	1	29/04/22					✓
EARTH PLATE AND STRAP	TP018ST201-3	1	1	29/04/22					✓
TYPICAL ENHANCEMENT COMPOUND INSTALLATION TO EARTH ELECTRODE & EARTH STRAP	TP018ST201-4	1	1	29/04/22					✓
EARTH CLEATS	TP018ST201-5	1	1	29/04/22					✓
CONCRETE POLE EARTH BAR MOUNTING	TP018ST201-6	1	1	29/04/22					✓
STAINLESS STEEL EARTH BAR DETAILS	TP018ST201-8	1	1	29/04/22					✓
EARTH STRAP INSTALLATION METHOD	TP018ST201-10	1	1	29/04/22					✓
EARTH STRAP TAIL TERMINATION METHOD	TP018ST201-11	1	1	29/04/22					✓
ACCESS SEEKER EARTHING	TP018ST203-1	1	1	19/04/22					✓
CONCRETE POLE EARTHING DETAIL	TP018ST204-1	1	1	09/05/22					✓
CONCRETE POLE	TP018ST204-2	1	1	03/05/22					✓
20B HORIZONTAL CABLE LADDER GANTRY INSTALLATION STANDARD	017866P51	1	9	01/06/23					✓
CABLE LADDER SUPPORT DETAILS - SHEET 1	017866P53	1	3	01/06/23					✓
CABLE LADDER FIXING TO SHELTER AND CONCRETE MONOPOLE	017866P61	1	3	07/06/23					✓
EQUIPMENT ALARM CONFIGURATION	017866P123	1	3	17/01/23					✓
ELECTRICAL SPECIFICATION	017866P160	1	5	03/02/23					✓
DETAILS & CONNECTIONS GALVANISED STEEL BASED SYSTEM	017866P201	1	3	29/03/23					✓
TYPICAL ENHANCEMENT COMPOUND INSTALLATION TO EARTH ELECTRODE & EARTH STRAP	017866P201	5	2	29/03/23					✓
CONCRETE POLE EARTH BAR MOUNTING	017866P201	9	3	29/03/23					✓
FEEDER EARTHING DETAILS	017866P201	11	3	29/03/23					✓
ICS SHELTER EARTH BAR DETAILS	017866P201	13	5	29/03/23					✓
TYPICAL FEEDER EARTH BAR DETAILS	017866P201	18	2	29/03/23					✓
MOBILE NETWORK SITE EARTHING STANDARDS	017866P201	19	5	29/03/23					✓
STAINLESS STEEL EARTH BAR DETAILS									
OMNI HEADFRAME FOR MONOPOLE WITH 540mm AND 600mm TIP DIAMETER SHEET 1 OF 5	MSD-S441	1	1	05/05/23					✓
OMNI HEADFRAME FOR MONOPOLE WITH 540mm AND 600mm TIP DIAMETER SHEET 2 OF 5	MSD-S441	2	1	05/05/23					✓
OMNI HEADFRAME FOR MONOPOLE WITH 540mm AND 600mm TIP DIAMETER SHEET 3 OF 5	MSD-S441	3	1	05/05/23					✓
OMNI HEADFRAME FOR MONOPOLE WITH 540mm AND 600mm TIP DIAMETER SHEET 4 OF 5	MSD-S441	4	1	05/05/23					✓
OMNI HEADFRAME FOR MONOPOLE WITH 540mm AND 600mm TIP DIAMETER SHEET 5 OF 5	MSD-S441	5	1	05/05/23					✓



TOWER AMS SITE REF: NSW008167

ADDRESS: SAWPIT CREEK UTILITIES DEPOT, KOSCIUSZKO RD  
WILSONS VALLEY  
NSW 2624

**UNAPPROVED  
DRAWING**



ORDER	DRAWN	CHKD	AMENDMENT	EXAM	APPD	DATE	ISS
NA24068.01	JM	JL	FOR CONSTRUCTION - SP30101453W0014 - LTE700/NR850	RT	GC	19.03.24	1

DWG NO.		SHT NO.	DC-1
NSW008167			

AMPLITEL  
Part of the Telstra Group  
TOWER AMS SITE NSW008167  
DRAWING INDEX AND DOCUMENT CONTROL - SHEET 2 OF 2  
SAWPIT CREEK UTILITIES DEPOT, KOSCIUSZKO RD, WILSONS VALLEY, NSW 2624

# SITE SPECIFIC NOTES

## EQUIPMENT SHELTER

TYPE: PROPOSED TELSTRA RCP TYPE SHELTER WITH SLOPE ROOF FOR ALPINE AREA AND WITH STEEL BASE  
 COLOUR: PALE EUCALYPT  
 FEEDER ENTRY WINDOW: RIGHT SIDE  
 AIR CONDITIONING CAGE: YES  
 REFERENCE DRAWING: SHEET E1

## STRUCTURE

TYPE: PROPOSED 40.0m HIGH MONOPOLE  
 ROCLA CONCRETE MONOPOLE SR2-BM40-540  
 COLOUR: NATURE CONCRETE  
 REFERENCE DRAWING: LeBLANC B30771ES-T05-1-TP60

## ANTENNA ACCESS

TELSTRA: LADDER ATTACHED TO MONOPOLE BY QUALIFIED PERSONAL ONLY

## ANTENNA MOUNTS

TYPE: PROPOSED TELSTRA STEEL PIPES  
 COLOUR: GALVANISED FINISH  
 REFERENCE DRAWINGS: MSD-S441, SHEET 1 TO 5

## EARTHING DETAIL

REFER TO SHEET G4 FOR DETAILS.

## ENVIRONMENTAL ISSUES

REFER TO ENVIRONMENTAL RISK ASSESSMENT PROCEDURE DOCUMENT NUMBER: 018502

## POWER SUPPLY

PROPOSED AMPLITEL / TELSTRA POWER SUPPLY. THREE PHASE / 50 AMPS.  
 REFER TO SHEET E0 FOR DETAILS.  
 DIAL 1100 BEFORE YOU DIG.

## PROPERTY SIGNAGE

PROPOSED SPECIFY PROPERTY SIGNAGE AS PER DOCUMENT 017866A12.  
 PROPERTY SIGN INCLUDES RFNSA SITE NUMBER.  
 SITE NAME: BRANDED SITE IDENTIFICATION REGULAR (BSr). TELSTRA S/I NUMBER 187/00929.  
 JABAC PART NUMBER TEMS929-M.

## SITE ACCESS

OFF KOSCIUSZKO RD KOSCIUSZKO NATIONAL PARK, NSW 2627  
 VIA EXISTING ROAD TO VISITOR ENTRY STATION, VIA EXISTING ROAD.  
 REFER TO SHEET S1 FOR DETAILS.

## SITE SIGNAGE

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

# 2 EME TELSTRA #2 SIGN  
 PROPOSED TELSTRA EME SIGN TO BE UV STABLE STICKER AND SECURED TO BASE OF OMNI ANTENNA (4 OFF)

# 4 EME TELSTRA #4 SIGN  
 PROPOSED TELSTRA EME SIGN TO BE SECURED 1.5m AGL TO TOWER LADDER

#13 EME TELSTRA #13 SIGN  
 PROPOSED TELSTRA EME SIGN TO BE SECURED TO AMPLITEL COMPOUND GATE

## WORKPLACE HEALTH & SAFETY

ASBESTOS CONTAINING MATERIALS WERE IDENTIFIED DURING INSPECTION & DESIGN STAGES, SUBSEQUENTLY CONFIRMED BY REVIEW OF THE TELSTRA REGISTER OF ASBESTOS MATERIALS. ALL NECESSARY CONTROLS WILL NEED TO BE IN PLACE DURING THE CONSTRUCTION PHASE TO CONTROL THIS IDENTIFIED HAZARD.  
 REFER TO SAFE WORK RISK REGISTER.

## GENERAL NOTES

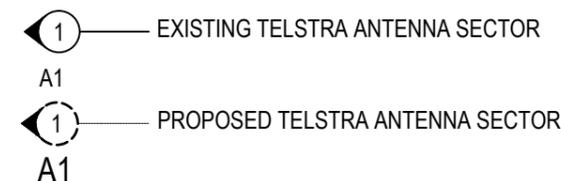
- ALL DIMENSIONS ARE IN MILLIMETRES UNLESS SPECIFIED OTHERWISE.
- BIRD PROOFING - CABLES AND ALL ACCESS POINTS ON THE STRUCTURE MUST BE BIRD PROOFED IN ACCORDANCE WITH THE METHODS SPECIFIED IN DOCUMENT NO. 003615 EXTERNAL PLANT STANDARDS FOR MOBILE BASE STATIONS, SECTION 6.3.3. FOR QUEENSLAND, ALL FEEDERS ARE TO BE BIRD PROOFED WHEN INSTALLED.
- SERVICES, WHERE SHOWN ARE INDICATIVELY ONLY. LOCATION OF ALL RELEVANT EXISTING SERVICES SHALL BE IDENTIFIED AND CONFIRMED PRIOR TO COMMENCING WORK. THE CONTRACTOR TO LIAISE WITH RELEVANT AUTHORITIES FOR DIRECTIONS AND PERMITS REQUIRED.  
 DIAL BEFORE YOU DIG 1100.
- FEEDER CONNECTION DETAILS, ELECTRICAL AND MECHANICAL TILTS ARE TO BE OBTAINED FROM CANRAD REPORTS.
- CONSTRUCTORS ARE TO BE AWARE OF TELSTRA DOCUMENT 007338-C8-11 AND IN PARTICULAR CLAUSE 7.3 & 10.3 WHICH DESCRIBES REQUIREMENTS PERSONNEL MUST UNDERTAKE IN RESPECT TO ASBESTOS MANAGEMENT AT TELSTRA FACILITIES.

## SITE REFERENCE DETAILS

OCCUPIER	SITE NAME	SITE CODE
TELSTRA	[REDACTED]	364313
RFNSA SITE NUMBER - 2624006 STRUCTURE OWNER - AMPLITEL		

## SERVICES LEGEND

— T — T — T —	OPTICAL FIBRE ABOVE GROUND
— T - - - T - - - T - - -	OPTICAL FIBRE BELOW GROUND
— E — E — E —	ABOVE GROUND ELECTRICAL SUPPLY
- - - E - - - E - - -	BELOW GROUND ELECTRICAL SUPPLY
— G — G — G —	GAS SUPPLY BELOW GROUND
— HV — 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 —	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**

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

ORDER	DRAWN	CHKD	AMENDMENT	EXAM	APPD	DATE	ISS
NA24068.01	JM	JL	FOR CONSTRUCTION - SP30101453W0014 - LTE700/NR850	RT	GC	19.03.24	1



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TOWER AMS SITE NSW008167  
 [REDACTED]  
 SITE SPECIFIC NOTES - SHEET 1 OF 2  
 SAWPIT CREEK UTILITIES DEPOT, KOSCIUSZKO RD, WILSONS VALLEY, NSW 2624

EQUIPMENT NOTES - PROJECT NO. NA24068.01

ITEM	EQUIPMENT	EQUIPMENT DETAILS	EXISTING	PROPOSED	TOTAL	REFERENCE DWG
1	AIR CONDITIONER	LENMIC RAC TYPE A/C UNIT PART OF SHELTER	0	1	1	SHEET E1
2	COOLING FAN	LENMIC L350A AC FAN PART OF SHELTER	0	1	1	SHEET E1
3	AC/DC INVERTER	FOR FAN SUPPLY PART OF SHELTER	0	1	1	SHEET E1
4	BATTERY ENERGY SP36 (PSU)	600 x 600 x 2125mm (W,D,H)	0	1	1	SHEETS E1 & E4
5	BATTERY ENERGY SP36 RECTIFIER	RM3048HE	0	2	2	SHEET E4
6	BATTERY ENERGY SP36 BATTERY	ENERSYS SBS190, BATTERY RESERVE TIME 8 HRS	0	12	12	SHEET E4
7	LOAD RESTRICTION LABEL - RECTIFIER	TE/L1004-V 80 x 40mm VINYL	0	9	9	SHEET E4
8	LOAD RESTRICTION LABEL - DB	TE/L1005-V 160 x 80mm VINYL	0	1	1	SHEET E1
9	45RU PATHFINDER RACK (ICS)	530 x 600 x 2200mm (W,D,H)	0	1	1	SHEETS E1 & E5
10	RADIO 4480 RACK	DECON RGL-091	0	1	1	SHEETS E1 & E5
11	MISC. RACK	600 x 300 x 2200mm (W,D,H) AT GD/3/1	0	1	1	SHEET E1
12	ESC	TO BE INSTALLED IN MISC. RACK	0	1	1	SHEET E1
13	FIBRE MANAGEMENT TRAY	TO BE INSTALLED IN 45RU PATHFINDER RACK	0	1	1	SHEET E5
14	ERICSSON DCDU	TO BE INSTALLED ON 45RU PATHFINDER RACK	0	1	1	SHEET E5
15	ERICSSON DCDU DUMMY CB	TO BE INSTALLED ON ERICSSON DCDU	0	18	18	SHEET E5
16	DC RATED CB25A	25A CB - NFS899003/1025	0	1	1	SHEET E5
17	DC RATED CB10A	10A CB - NFS899003/1010	0	1	1	SHEET E5
18	KEREM A100	TO BE INSTALLED IN RADIO 4480 RACK	0	1	1	SHEET E5
19	KEREM A100 CB 40A	KT-APX-50KA-MTRS-40A	0	1	1	SHEET E5
20	ERICSSON RADIO 4480 (B26/B28) (LTE700/NR850)	TO BE INSTALLED IN DECON RGL-091	0	1	1	SHEET E5
21	RP6651	TO BE INSTALLED IN 45RU PATHFINDER RACK	0	1	1	SHEET E5
22	R6471	TO BE INSTALLED IN 45RU PATHFINDER RACK	0	1	1	SHEET E5
23	KAELUS TOWER MOUNTED AMPLIFIER (LTE700/NR850)	KA-1033 TWIN TMA	0	2	2	SHEETS S1-2 & S3
24	KAELUS IM FILTER (NR850)	BSF0020F1V2 TO BE INSTALLED IN DECON RGL-091	0	2	2	SHEET E5
25	RFS LCF114-50JA FEEDER (LTE700/NR850)	45.0m	0	4	4	SHEETS S1-1 & S3
26	GPS ANTENNA	KRE 101 2082/1 Ø68 x 96mm	0	1	1	SHEET E1
27	ERICSSON GPS RECEIVER	TO BE INSTALLED IN 45RU PATHFINDER RACK	0	1	1	SHEET E5
28	ERICSSON GPS SPLITTER	TO BE INSTALLED IN 45RU PATHFINDER RACK	0	1	1	SHEET E5
29	EQUIPMENT SHELTER KEY NO.	KABA QUATTRO UW7096MC	0	1	1	-
30	SECURITY COMPOUND GATE KEY NO	KABA QUATTRO UW7096MC	0	1	1	-

UNAPPROVED  
DRAWING

COMPLIANCE BOX

COMPLETED AS PER DESIGN

ALTERATIONS IN RED

NAME (PRINT) \_\_\_\_\_

SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_

SITE DESIGN BRIEF LTE700/NR850 NA24068.01 ISSUE 01 DATED 16/11/2022

FOR CONSTRUCTION

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

ORDER	DRAWN	CHKD	AMENDMENT	EXAM	APPD	DATE	ISS
NA24068.01	JM	JL	FOR CONSTRUCTION - SP30101453W0014 - LTE700/NR850	RT	GC	19.03.24	1

**MOBILE NETWORK SITE 364313**

[REDACTED]

SITE SPECIFIC NOTES - SHEET 2 OF 2

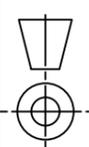
SAWPIT CREEK UTILITIES DEPOT, KOSCIUSZKO RD, WILSONS VALLEY, NSW 2624

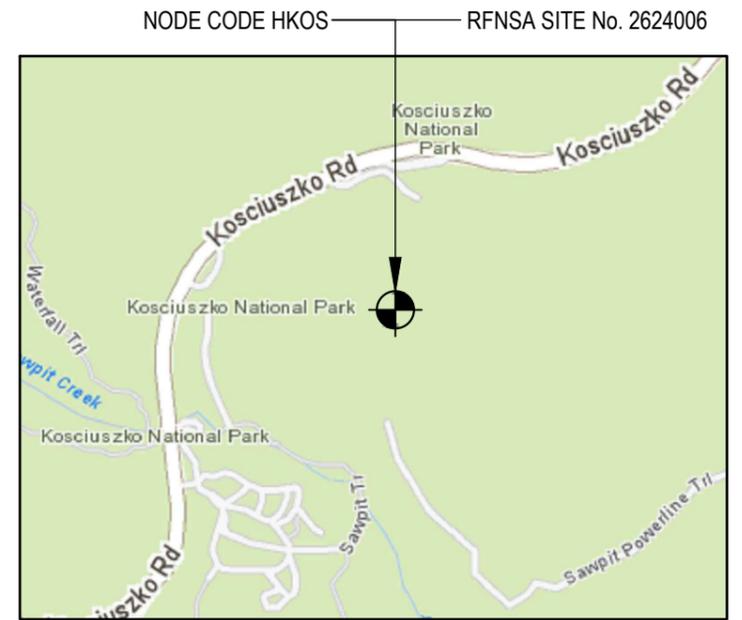
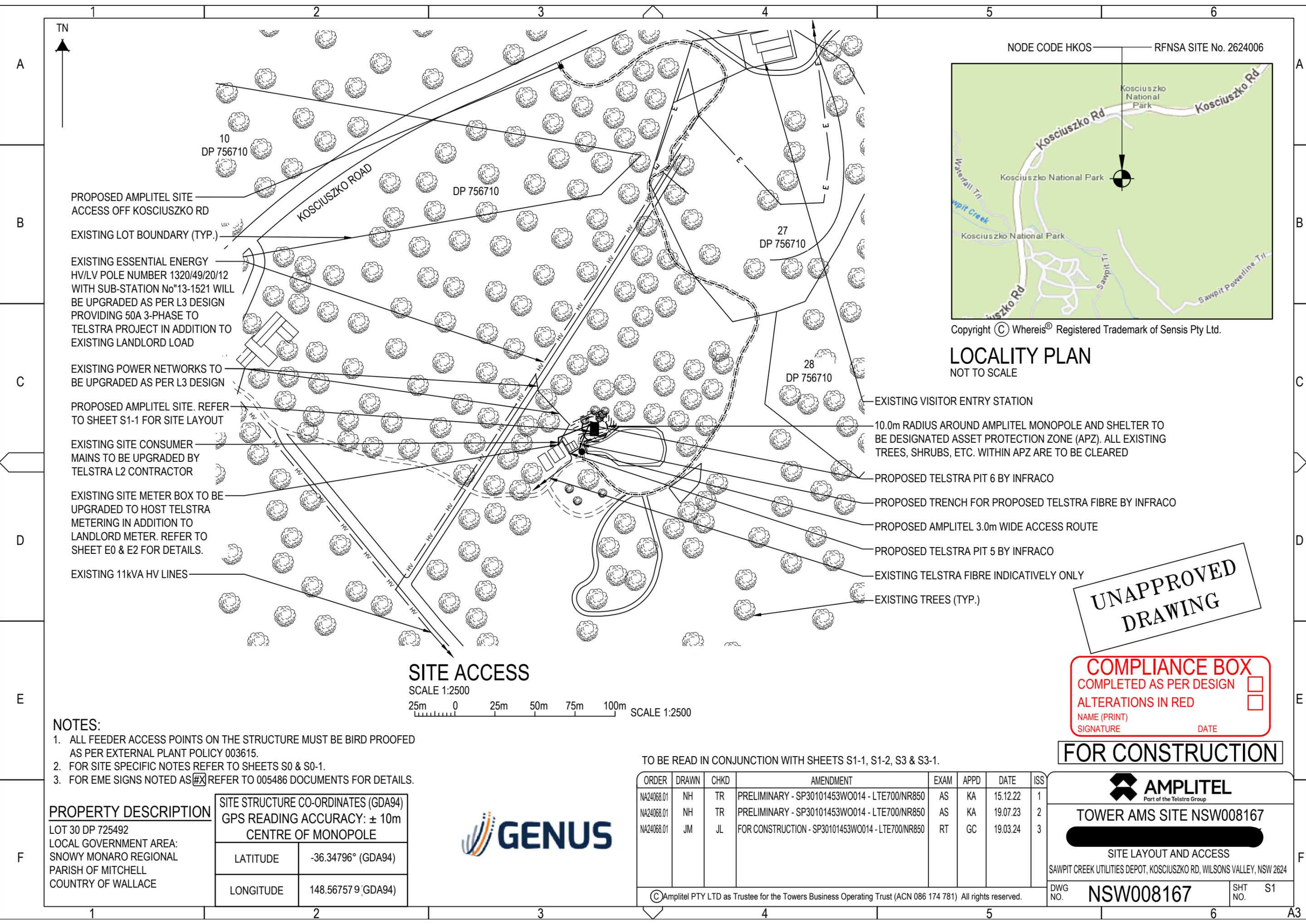
DWG NO. **N111762** SHT NO. S0-1

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DO NOT SCALE

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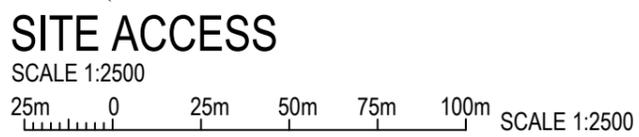


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**LOCALITY PLAN**  
NOT TO SCALE

- PROPOSED AMPLITEL SITE ACCESS OFF KOSCIUSZKO RD
- EXISTING LOT BOUNDARY (TYP.)
- EXISTING ESSENTIAL ENERGY HV/LV POLE NUMBER 1320/49/20/12 WITH SUB-STATION No"13-1521 WILL BE UPGRADED AS PER L3 DESIGN PROVIDING 50A 3-PHASE TO TELSTRA PROJECT IN ADDITION TO EXISTING LANDLORD LOAD
- EXISTING POWER NETWORKS TO BE UPGRADED AS PER L3 DESIGN
- PROPOSED AMPLITEL SITE. REFER TO SHEET S1-1 FOR SITE LAYOUT
- EXISTING SITE CONSUMER MAINS TO BE UPGRADED BY TELSTRA L2 CONTRACTOR
- EXISTING SITE METER BOX TO BE UPGRADED TO HOST TELSTRA METERING IN ADDITION TO LANDLORD METER. REFER TO SHEET E0 & E2 FOR DETAILS.
- EXISTING 11KVA HV LINES

- EXISTING VISITOR ENTRY STATION
- 10.0m RADIUS AROUND AMPLITEL MONOPOLE AND SHELTER TO BE DESIGNATED ASSET PROTECTION ZONE (APZ). ALL EXISTING TREES, SHRUBS, ETC. WITHIN APZ ARE TO BE CLEARED
- PROPOSED TELSTRA PIT 6 BY INFRACO
- PROPOSED TRENCH FOR PROPOSED TELSTRA FIBRE BY INFRACO
- PROPOSED AMPLITEL 3.0m WIDE ACCESS ROUTE
- PROPOSED TELSTRA PIT 5 BY INFRACO
- EXISTING TELSTRA FIBRE INDICATIVELY ONLY
- EXISTING TREES (TYP.)



**UNAPPROVED DRAWING**

**COMPLIANCE BOX**  
 COMPLETED AS PER DESIGN   
 ALTERATIONS IN RED   
 NAME (PRINT) \_\_\_\_\_  
 SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_

**FOR CONSTRUCTION**

- NOTES:**
- ALL FEEDER ACCESS POINTS ON THE STRUCTURE MUST BE BIRD PROOFED AS PER EXTERNAL PLANT POLICY 003615.
  - FOR SITE SPECIFIC NOTES REFER TO SHEETS S0 & S0-1.
  - FOR EME SIGNS NOTED AS #X REFER TO 005486 DOCUMENTS FOR DETAILS.

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

ORDER	DRAWN	CHKD	AMENDMENT	EXAM	APPD	DATE	ISS
NA24068.01	NH	TR	PRELIMINARY - SP30101453WO014 - LTE700/NR850	AS	KA	15.12.22	1
NA24068.01	NH	TR	PRELIMINARY - SP30101453WO014 - LTE700/NR850	AS	KA	19.07.23	2
NA24068.01	JM	JL	FOR CONSTRUCTION - SP30101453WO014 - LTE700/NR850	RT	GC	19.03.24	3

**PROPERTY DESCRIPTION**  
 LOT 30 DP 725492  
 LOCAL GOVERNMENT AREA:  
 SNOWY MONARO REGIONAL  
 PARISH OF MITCHELL  
 COUNTRY OF WALLACE

SITE STRUCTURE CO-ORDINATES (GDA94) GPS READING ACCURACY: ± 10m CENTRE OF MONOPOLE	
LATITUDE	-36.34796° (GDA94)
LONGITUDE	148.567579° (GDA94)



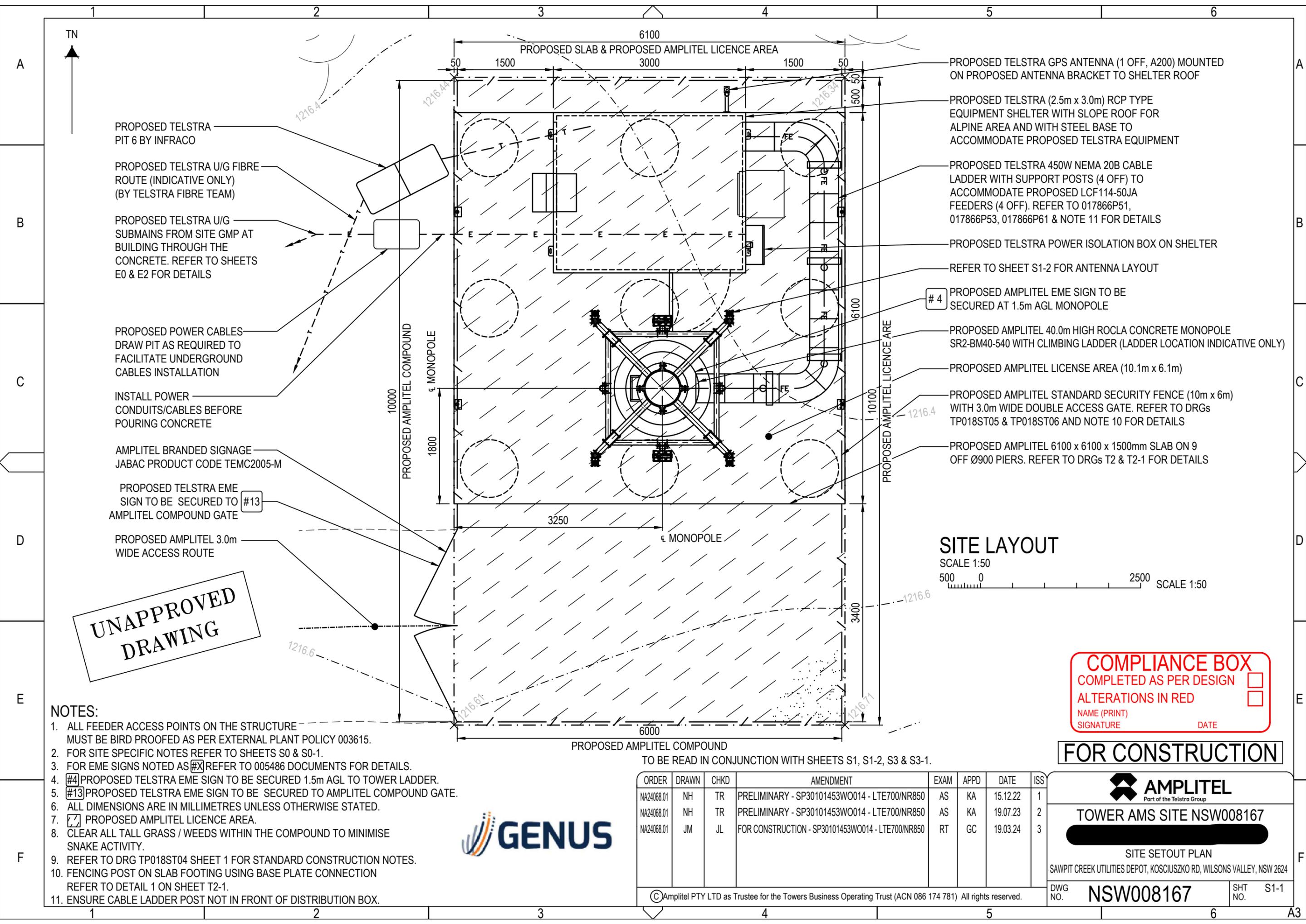
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**TOWER AMS SITE NSW008167**

SITE LAYOUT AND ACCESS  
SAWPIT CREEK UTILITIES DEPOT, KOSCIUSZKO RD, WILSONS VALLEY, NSW 2624

DWG NO. **NSW008167** SHT NO. S1



PROPOSED TELSTRA PIT 6 BY INFRACO

PROPOSED TELSTRA U/G FIBRE ROUTE (INDICATIVE ONLY) (BY TELSTRA FIBRE TEAM)

PROPOSED TELSTRA U/G SUBMAINS FROM SITE GMP AT BUILDING THROUGH THE CONCRETE. REFER TO SHEETS E0 & E2 FOR DETAILS

PROPOSED POWER CABLES DRAW PIT AS REQUIRED TO FACILITATE UNDERGROUND CABLES INSTALLATION

INSTALL POWER CONDUITS/CABLES BEFORE POURING CONCRETE

AMPLITEL BRANDED SIGNAGE JABAC PRODUCT CODE TEMC2005-M

PROPOSED TELSTRA EME SIGN TO BE SECURED TO AMPLITEL COMPOUND GATE #13

PROPOSED AMPLITEL 3.0m WIDE ACCESS ROUTE

PROPOSED TELSTRA GPS ANTENNA (1 OFF, A200) MOUNTED ON PROPOSED ANTENNA BRACKET TO SHELTER ROOF

PROPOSED TELSTRA (2.5m x 3.0m) RCP TYPE EQUIPMENT SHELTER WITH SLOPE ROOF FOR ALPINE AREA AND WITH STEEL BASE TO ACCOMMODATE PROPOSED TELSTRA EQUIPMENT

PROPOSED TELSTRA 450W NEMA 20B CABLE LADDER WITH SUPPORT POSTS (4 OFF) TO ACCOMMODATE PROPOSED LCF114-50JA FEEDERS (4 OFF). REFER TO 017866P51, 017866P53, 017866P61 & NOTE 11 FOR DETAILS

PROPOSED TELSTRA POWER ISOLATION BOX ON SHELTER

REFER TO SHEET S1-2 FOR ANTENNA LAYOUT

#4 PROPOSED AMPLITEL EME SIGN TO BE SECURED AT 1.5m AGL MONOPOLE

PROPOSED AMPLITEL 40.0m HIGH ROCLA CONCRETE MONOPOLE SR2-BM40-540 WITH CLIMBING LADDER (LADDER LOCATION INDICATIVE ONLY)

PROPOSED AMPLITEL LICENSE AREA (10.1m x 6.1m)

PROPOSED AMPLITEL STANDARD SECURITY FENCE (10m x 6m) WITH 3.0m WIDE DOUBLE ACCESS GATE. REFER TO DRGs TP018ST05 & TP018ST06 AND NOTE 10 FOR DETAILS

PROPOSED AMPLITEL 6100 x 6100 x 1500mm SLAB ON 9 OFF Ø900 PIERS. REFER TO DRGs T2 & T2-1 FOR DETAILS

**SITE LAYOUT**

SCALE 1:50

500 0 2500 SCALE 1:50

**UNAPPROVED DRAWING**

**COMPLIANCE BOX**

COMPLETED AS PER DESIGN

ALTERATIONS IN RED

NAME (PRINT) \_\_\_\_\_

SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_

**FOR CONSTRUCTION**

- NOTES:**
- ALL FEEDER ACCESS POINTS ON THE STRUCTURE MUST BE BIRD PROOFED AS PER EXTERNAL PLANT POLICY 003615.
  - FOR SITE SPECIFIC NOTES REFER TO SHEETS S0 & S0-1.
  - FOR EME SIGNS NOTED AS #X REFER TO 005486 DOCUMENTS FOR DETAILS.
  - #4 PROPOSED TELSTRA EME SIGN TO BE SECURED 1.5m AGL TO TOWER LADDER.
  - #13 PROPOSED TELSTRA EME SIGN TO BE SECURED TO AMPLITEL COMPOUND GATE.
  - ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE STATED.
  - PROPOSED AMPLITEL LICENCE AREA.
  - CLEAR ALL TALL GRASS / WEEDS WITHIN THE COMPOUND TO MINIMISE SNAKE ACTIVITY.
  - REFER TO DRG TP018ST04 SHEET 1 FOR STANDARD CONSTRUCTION NOTES.
  - FENCING POST ON SLAB FOOTING USING BASE PLATE CONNECTION REFER TO DETAIL 1 ON SHEET T2-1.
  - ENSURE CABLE LADDER POST NOT IN FRONT OF DISTRIBUTION BOX.



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

ORDER	DRAWN	CHKD	AMENDMENT	EXAM	APPD	DATE	ISS
NA24068.01	NH	TR	PRELIMINARY - SP30101453W0014 - LTE700/NR850	AS	KA	15.12.22	1
NA24068.01	NH	TR	PRELIMINARY - SP30101453W0014 - LTE700/NR850	AS	KA	19.07.23	2
NA24068.01	JM	JL	FOR CONSTRUCTION - SP30101453W0014 - LTE700/NR850	RT	GC	19.03.24	3

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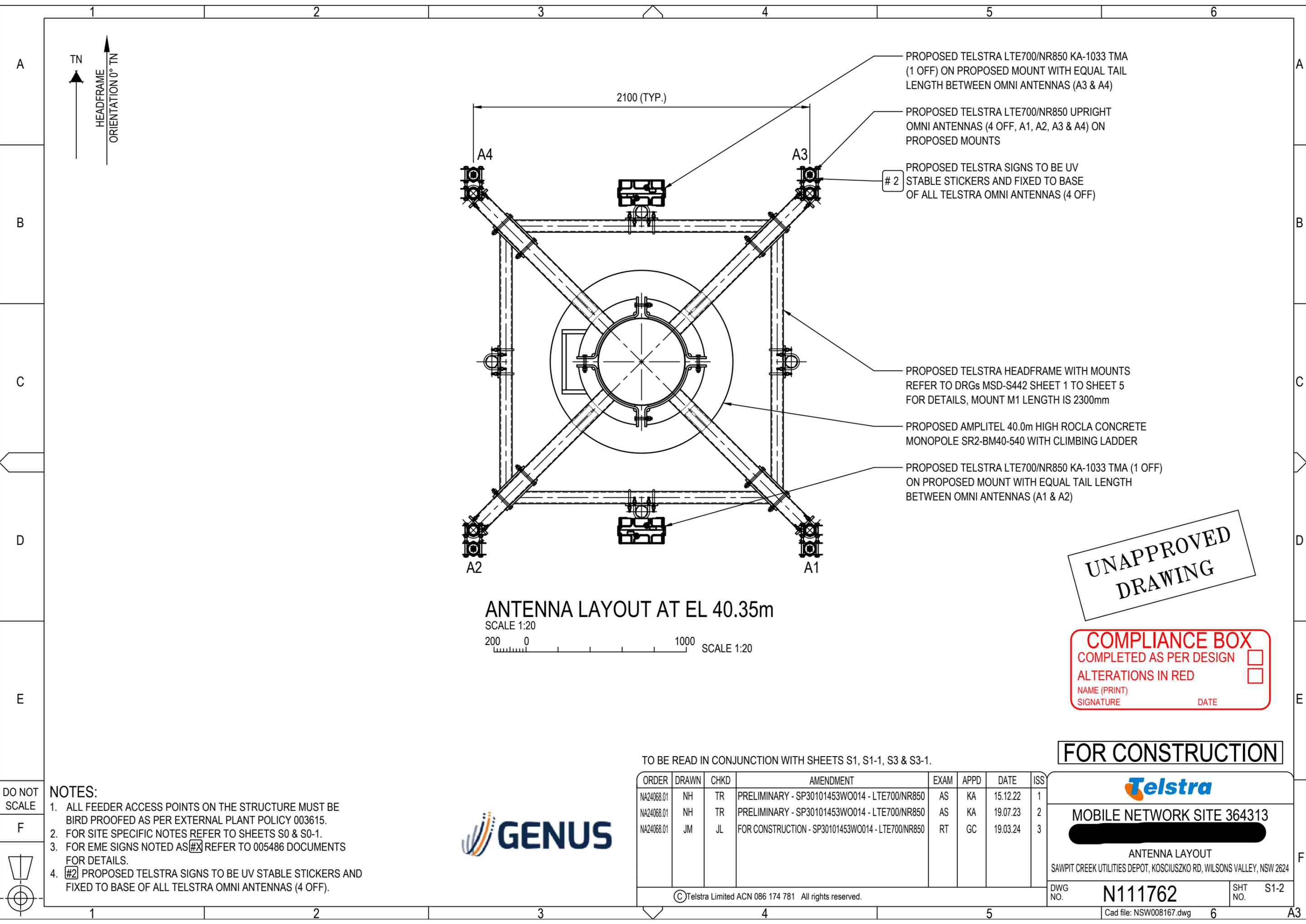
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**TOWER AMS SITE NSW008167**

SITE SETOUT PLAN

SAWPIT CREEK UTILITIES DEPOT, KOSCIUSZKO RD, WILSONS VALLEY, NSW 2624

DWG NO. **NSW008167** SHT NO. S1-1



PROPOSED TELSTRA LTE700/NR850 KA-1033 TMA (1 OFF) ON PROPOSED MOUNT WITH EQUAL TAIL LENGTH BETWEEN OMNI ANTENNAS (A3 & A4)

PROPOSED TELSTRA LTE700/NR850 UPRIGHT OMNI ANTENNAS (4 OFF, A1, A2, A3 & A4) ON PROPOSED MOUNTS

# 2 PROPOSED TELSTRA SIGNS TO BE UV STABLE STICKERS AND FIXED TO BASE OF ALL TELSTRA OMNI ANTENNAS (4 OFF)

PROPOSED TELSTRA HEADFRAME WITH MOUNTS REFER TO DRGs MSD-S442 SHEET 1 TO SHEET 5 FOR DETAILS, MOUNT M1 LENGTH IS 2300mm

PROPOSED AMPLITEL 40.0m HIGH ROCLA CONCRETE MONOPOLE SR2-BM40-540 WITH CLIMBING LADDER

PROPOSED TELSTRA LTE700/NR850 KA-1033 TMA (1 OFF) ON PROPOSED MOUNT WITH EQUAL TAIL LENGTH BETWEEN OMNI ANTENNAS (A1 & A2)

**UNAPPROVED DRAWING**

**COMPLIANCE BOX**  
 COMPLETED AS PER DESIGN   
 ALTERATIONS IN RED   
 NAME (PRINT) \_\_\_\_\_  
 SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_

**ANTENNA LAYOUT AT EL 40.35m**

SCALE 1:20  
 200 0 1000 SCALE 1:20

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

ORDER	DRAWN	CHKD	AMENDMENT	EXAM	APPD	DATE	ISS
NA24068.01	NH	TR	PRELIMINARY - SP30101453WO014 - LTE700/NR850	AS	KA	15.12.22	1
NA24068.01	NH	TR	PRELIMINARY - SP30101453WO014 - LTE700/NR850	AS	KA	19.07.23	2
NA24068.01	JM	JL	FOR CONSTRUCTION - SP30101453WO014 - LTE700/NR850	RT	GC	19.03.24	3

**FOR CONSTRUCTION**



**MOBILE NETWORK SITE 364313**

SAWPIT CREEK UTILITIES DEPOT, KOSCIUSZKO RD, WILSONS VALLEY, NSW 2624

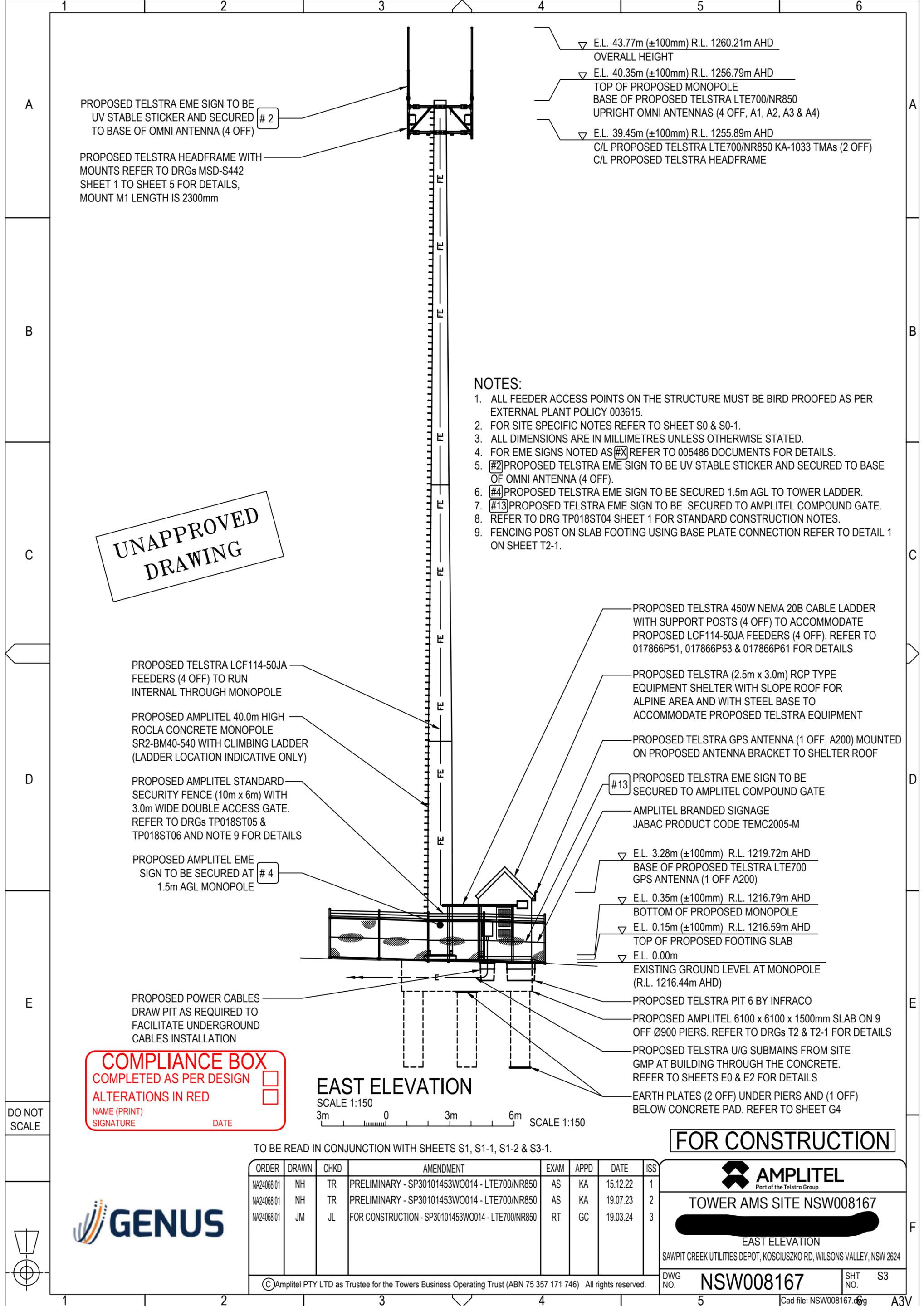
DWG NO. **N111762** SHT NO. S1-2

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DO NOT SCALE

- NOTES:**
- ALL FEEDER ACCESS POINTS ON THE STRUCTURE MUST BE BIRD PROOFED AS PER EXTERNAL PLANT POLICY 003615.
  - FOR SITE SPECIFIC NOTES REFER TO SHEETS S0 & S0-1.
  - FOR EME SIGNS NOTED AS #X REFER TO 005486 DOCUMENTS FOR DETAILS.
  - #2 PROPOSED TELSTRA SIGNS TO BE UV STABLE STICKERS AND FIXED TO BASE OF ALL TELSTRA OMNI ANTENNAS (4 OFF).





PROPOSED TELSTRA EME SIGN TO BE UV STABLE STICKER AND SECURED TO BASE OF OMNI ANTENNA (4 OFF) # 2

PROPOSED TELSTRA HEADFRAME WITH MOUNTS REFER TO DRGs MSD-S442 SHEET 1 TO SHEET 5 FOR DETAILS, MOUNT M1 LENGTH IS 2300mm

▽ E.L. 43.77m (±100mm) R.L. 1260.21m AHD  
OVERALL HEIGHT

▽ E.L. 40.35m (±100mm) R.L. 1256.79m AHD  
TOP OF PROPOSED MONOPOLE  
BASE OF PROPOSED TELSTRA LTE700/NR850 UPRIGHT OMNI ANTENNAS (4 OFF, A1, A2, A3 & A4)

▽ E.L. 39.45m (±100mm) R.L. 1255.89m AHD  
C/L PROPOSED TELSTRA LTE700/NR850 KA-1033 TMAs (2 OFF)  
C/L PROPOSED TELSTRA HEADFRAME

- NOTES:**
1. ALL FEEDER ACCESS POINTS ON THE STRUCTURE MUST BE BIRD PROOFED AS PER EXTERNAL PLANT POLICY 003615.
  2. FOR SITE SPECIFIC NOTES REFER TO SHEET S0 & S0-1.
  3. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE STATED.
  4. FOR EME SIGNS NOTED AS #X REFER TO 005486 DOCUMENTS FOR DETAILS.
  5. #2 PROPOSED TELSTRA EME SIGN TO BE UV STABLE STICKER AND SECURED TO BASE OF OMNI ANTENNA (4 OFF).
  6. #4 PROPOSED TELSTRA EME SIGN TO BE SECURED 1.5m AGL TO TOWER LADDER.
  7. #13 PROPOSED TELSTRA EME SIGN TO BE SECURED TO AMPLITEL COMPOUND GATE.
  8. REFER TO DRG TP018ST04 SHEET 1 FOR STANDARD CONSTRUCTION NOTES.
  9. FENCING POST ON SLAB FOOTING USING BASE PLATE CONNECTION REFER TO DETAIL 1 ON SHEET T2-1.

**UNAPPROVED DRAWING**

PROPOSED TELSTRA LCF114-50JA FEEDERS (4 OFF) TO RUN INTERNAL THROUGH MONOPOLE

PROPOSED AMPLITEL 40.0m HIGH ROCLA CONCRETE MONOPOLE SR2-BM40-540 WITH CLIMBING LADDER (LADDER LOCATION INDICATIVE ONLY)

PROPOSED AMPLITEL STANDARD SECURITY FENCE (10m x 6m) WITH 3.0m WIDE DOUBLE ACCESS GATE. REFER TO DRGs TP018ST05 & TP018ST06 AND NOTE 9 FOR DETAILS

PROPOSED AMPLITEL EME SIGN TO BE SECURED AT 1.5m AGL MONOPOLE # 4

PROPOSED TELSTRA 450W NEMA 20B CABLE LADDER WITH SUPPORT POSTS (4 OFF) TO ACCOMMODATE PROPOSED LCF114-50JA FEEDERS (4 OFF). REFER TO 017866P51, 017866P53 & 017866P61 FOR DETAILS

PROPOSED TELSTRA (2.5m x 3.0m) RCP TYPE EQUIPMENT SHELTER WITH SLOPE ROOF FOR ALPINE AREA AND WITH STEEL BASE TO ACCOMMODATE PROPOSED TELSTRA EQUIPMENT

PROPOSED TELSTRA GPS ANTENNA (1 OFF, A200) MOUNTED ON PROPOSED ANTENNA BRACKET TO SHELTER ROOF

#13 PROPOSED TELSTRA EME SIGN TO BE SECURED TO AMPLITEL COMPOUND GATE

AMPLITEL BRANDED SIGNAGE JABAC PRODUCT CODE TEMC2005-M

▽ E.L. 3.28m (±100mm) R.L. 1219.72m AHD  
BASE OF PROPOSED TELSTRA LTE700 GPS ANTENNA (1 OFF A200)

▽ E.L. 0.35m (±100mm) R.L. 1216.79m AHD  
BOTTOM OF PROPOSED MONOPOLE

▽ E.L. 0.15m (±100mm) R.L. 1216.59m AHD  
TOP OF PROPOSED FOOTING SLAB

▽ E.L. 0.00m  
EXISTING GROUND LEVEL AT MONOPOLE (R.L. 1216.44m AHD)

PROPOSED TELSTRA PIT 6 BY INFRACO

PROPOSED AMPLITEL 6100 x 6100 x 1500mm SLAB ON 9 OFF Ø900 PIERS. REFER TO DRGs T2 & T2-1 FOR DETAILS

PROPOSED TELSTRA U/G SUBMANS FROM SITE GMP AT BUILDING THROUGH THE CONCRETE. REFER TO SHEETS E0 & E2 FOR DETAILS

EARTH PLATES (2 OFF) UNDER PIERS AND (1 OFF) BELOW CONCRETE PAD. REFER TO SHEET G4

**COMPLIANCE BOX**  
COMPLETED AS PER DESIGN   
ALTERATIONS IN RED   
NAME (PRINT) \_\_\_\_\_  
SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_

**EAST ELEVATION**  
SCALE 1:150  
3m 0 3m 6m SCALE 1:150

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

ORDER	DRAWN	CHKD	AMENDMENT	EXAM	APPD	DATE	ISS
NA24068.01	NH	TR	PRELIMINARY - SP30101453WO014 - LTE700/NR850	AS	KA	15.12.22	1
NA24068.01	NH	TR	PRELIMINARY - SP30101453WO014 - LTE700/NR850	AS	KA	19.07.23	2
NA24068.01	JM	JL	FOR CONSTRUCTION - SP30101453WO014 - LTE700/NR850	RT	GC	19.03.24	3

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**TOWER AMS SITE NSW008167**

SAWPIT CREEK UTILITIES DEPOT, KOSCIUSZKO RD, WILSONS VALLEY, NSW 2624

DWG NO. **NSW008167** SHT NO. **S3**



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### TELSTRA ANTENNA CONFIGURATION TABLE

ANTENNA No	ANTENNA TYPE & SIZE H x W x D	ANTENNA ACTION REQUIRED	ANTENNA HEIGHT C/L A.G.L.	PHYSICAL ANTENNA BEARING (°T)	SECTOR NO. & TECHNOLOGY
A1	COMMSCOPE UNA010F-0-V2 OMNI Ø56 x 3414mm	INSTALL	40.35m (BASE OF OMNI)	360°	S0: LTE700/NR850
A2	COMMSCOPE UNA010F-0-V2 OMNI Ø56 x 3414mm	INSTALL	40.35m (BASE OF OMNI)	360°	S0: LTE700/NR850
A3	COMMSCOPE UNA010F-0-V2 OMNI Ø56 x 3414mm	INSTALL	40.35m (BASE OF OMNI)	360°	S0: LTE700/NR850
A4	COMMSCOPE UNA010F-0-V2 OMNI Ø56 x 3414mm	INSTALL	40.35m (BASE OF OMNI)	360°	S0: LTE700/NR850
A200	ERICSSON GPS ANTENNA KRE 101 2082/1 Ø68mm x 96mm	INSTALL	3.28m (BASE OF GPS)	0°	-

**UNAPPROVED  
DRAWING**

COMPLIANCE BOX

COMPLETED AS PER DESIGN

ALTERATIONS IN RED

NAME (PRINT) \_\_\_\_\_

SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_

**FOR CONSTRUCTION**

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

ORDER	DRAWN	CHKD	AMENDMENT	EXAM	APPD	DATE	ISS
NA24068.01	NH	TR	PRELIMINARY - SP30101453WO014 - LTE700/NR850	AS	KA	15.12.22	1
NA24068.01	NH	TR	PRELIMINARY - SP30101453WO014 - LTE700/NR850	AS	KA	19.07.23	2
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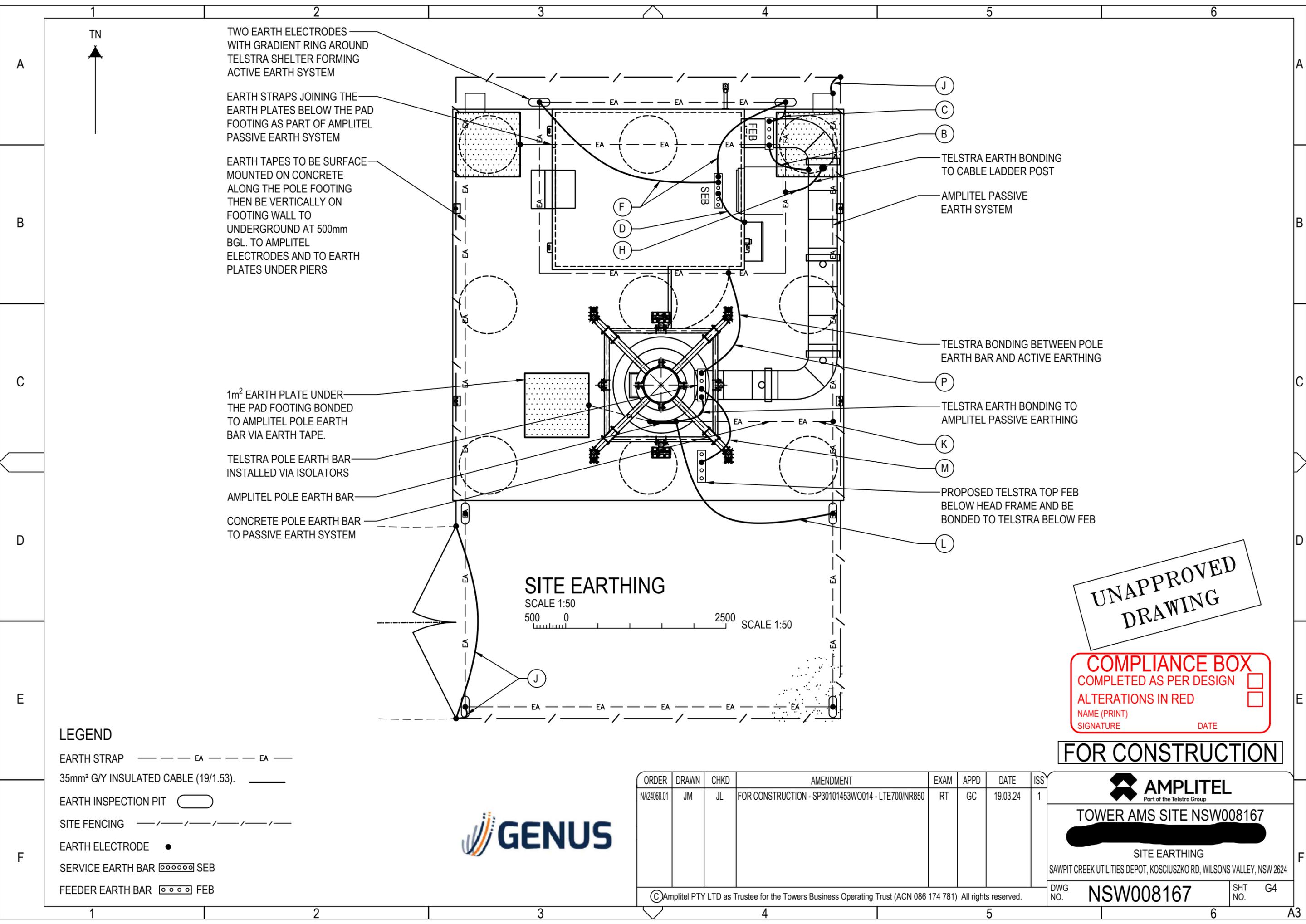
ANTENNA CONFIGURATION TABLE  
SAWPIT CREEK UTILITIES DEPOT, KOSCIUSZKO RD, WILSONS VALLEY, NSW 2624

N111762

DWT NO. SHT NO. S3-1

DO NOT SCALE





TWO EARTH ELECTRODES WITH GRADIENT RING AROUND TELSTRA SHELTER FORMING ACTIVE EARTH SYSTEM

EARTH STRAPS JOINING THE EARTH PLATES BELOW THE PAD FOOTING AS PART OF AMPLITEL PASSIVE EARTH SYSTEM

EARTH TAPES TO BE SURFACE MOUNTED ON CONCRETE ALONG THE POLE FOOTING THEN BE VERTICALLY ON FOOTING WALL TO UNDERGROUND AT 500mm BGL. TO AMPLITEL ELECTRODES AND TO EARTH PLATES UNDER PIERS

1m<sup>2</sup> EARTH PLATE UNDER THE PAD FOOTING BONDED TO AMPLITEL POLE EARTH BAR VIA EARTH TAPE.

TELSTRA POLE EARTH BAR INSTALLED VIA ISOLATORS

AMPLITEL POLE EARTH BAR

CONCRETE POLE EARTH BAR TO PASSIVE EARTH SYSTEM

TELSTRA EARTH BONDING TO CABLE LADDER POST

AMPLITEL PASSIVE EARTH SYSTEM

TELSTRA BONDING BETWEEN POLE EARTH BAR AND ACTIVE EARTHING

TELSTRA EARTH BONDING TO AMPLITEL PASSIVE EARTHING

PROPOSED TELSTRA TOP FEB BELOW HEAD FRAME AND BE BONDED TO TELSTRA BELOW FEB

**SITE EARTHING**  
SCALE 1:50  
500 0 2500 SCALE 1:50

- LEGEND**
- EARTH STRAP ——— EA ——— EA ———
  - 35mm<sup>2</sup> G/Y INSULATED CABLE (19/1.53). ———
  - EARTH INSPECTION PIT
  - SITE FENCING - - - - -
  - EARTH ELECTRODE •
  - SERVICE EARTH BAR SEB
  - FEEDER EARTH BAR FEB



**UNAPPROVED DRAWING**

**COMPLIANCE BOX**  
COMPLETED AS PER DESIGN   
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NAME (PRINT) \_\_\_\_\_  
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**FOR CONSTRUCTION**

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NA24068.01	JM	JL	FOR CONSTRUCTION - SP30101453W0014 - LTE700/NR850	RT	GC	19.03.24	1

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**TOWER AMS SITE NSW008167**

**SITE EARTHING**

SAWPIT CREEK UTILITIES DEPOT, KOSCIUSZKO RD, WILSONS VALLEY, NSW 2624

# EARTH NOTES

## 1. AMPLITEL & TELSTRA STANDARDS

USE THE FOLLOWING AMPLITEL & TELSTRA STANDARDS AS GUIDE FOR SITE EARTHING IN ADDITION TO BELOW DETAIL INSTRUCTIONS:

- TP018ST201 SHEET 1 & 017866P201 SHEET 1 FOR STEEL MATERIAL
- TP018ST201 SHEET 3 EARTH PLATE AND STRAPS
- TP018ST201 SHEET 4 TYPICAL ENHANCEMENT COMPOUND INSTALLATION TO EARTH ELECTRODE AND EARTH STRAP
- TP018ST201 SHEET 5 EARTH CLEAT
- TP018ST201 SHEET 8, 017866P201 SHEETS 18 & 19 TYPICAL EARTH BAR DETAILS
- TP018ST201 SHEET 10 & 017866P201 SHEET 5 FOR EARTH STRAP INSTALLATION METHOD
- TP018ST201 SHEET 11 EARTH STRAP TAIL TERMINATION METHOD
- TP018ST201 SHEETS 6 & 017866P201 SHEET 9 FOR FEB ON CONCRETE POLE
- TP018ST204 SHEETS 1 & 2 CONCRETE POLE EARTHING DETAILS
- 017866P201 SHEET 11 FEEDER EARTHING DETAILS
- 017866P201 SHEET 13 ICS SHELTER INTERNAL EARTHING DETAIL.

UNAPPROVED  
DRAWING

## 2. AMPLITEL PASSIVE EARTHING

PASSIVE EARTH GRID IS MADE OF 2 ELECTRODES AND TWO 1m<sup>2</sup> EARTH PLATES PLACED IN SITE LEASE AREA AS ILLUSTRATED IN SHEET G4. EARTH PLATE SHALL BE PLACED UNDER THE PIERS FOOTING AND BE CONNECTED TOGETHER JUST UNDER THE CONCRETE PAD LEVEL VIA GALVANISED EARTH TAPES.

PASSIVE GRADIENT RING SHALL BE MADE OF 3 x 50mm HOT DIPPED STEEL STRAPS INSTALLED AT MINIMUM OF 500mm UNDER GROUND LEVEL AND SHALL BE SURFACE MOUNTED ON TOWER CONCRETE PAD AND VERTICALLY INSTALLED TO JOINT THE TWO EARTH PLATE UNDER THE PIERS. BONDING TO EARTH ELECTRODE SHALL BE DONE USING DIRECT METHOD AS PER TP018ST201 SHEET 1. STRAPS SHALL BE LAID TYPICALLY 300mm INSIDE THE FENCE

ELECTRODES SHALL BE JOINED TOGETHER USING COUPLER FROM THE SAME ELECTRODE MATERIAL. ELECTRODES SHALL HAVE 14mm DIAMETER STAINLESS STEEL OR STAINLESS-STEEL CLAD ROD. EARTH PITS SHALL BE INSTALLED AFTER THE ELECTRODES INSTALLATION AND CONNECTION BE COMPLETED FOR INSPECTION PURPOSES. EARTH PITS LEADS SHALL BE ENGRAVED WITH IDENTIFICATION LABELS CARRY AMPLITEL OR TELSTRA LABELS LIKE "AMPLITEL EARTH" OR "TELSTRA EARTH".

IF ELECTRODE CANNOT BE INSTALLED PER PERCUSSION, ENGAGE SPECIAL EARTH CONTRACTOR TO CREATE 75mm DIAMETER BORE FOR EACH ELECTRODE AND USE ENHANCED EARTH MATERIAL MIX OF GYPSUM SLURRY AND CALCIUM BENTONITE TO BE POURED AROUND THE ROD. REFER TO TP018ST201-4 FOR DETAIL.

EARTH RESISTANCE TARGET IS BELOW 5 OHMS. EARTH RESISTANCE MEASUREMENT SHALL BE UNDERTAKEN AS PER WORK INSTRUCTION 017866W01, RESULT ARE TO BE RECORDED ON THE FORM 017866F07. IF OBJECTIVE IS NOT ACHIEVED, REPORT RESULT TO DESIGN ENGINEER. MEASUREMENT SHALL BE PERFORMED BEFORE EARTH SYSTEM BE CONNECTED TO MEN.

## 3. TELSTRA ACTIVE EARTHING

ACTIVE EARTH GRID IS MADE OF 2 ELECTRODES AS SHOWN IN G4 DRAWINGS. AND ACTIVE GRADIENT EARTH RING SHALL JOIN THE TWO ELECTRODES AND BE SURFACE MOUNTED AROUND TELSTRA SHELTER. ELECTRODES SHALL HAVE MINIMUM OF 2.8m DEEP EQUIVALENT OF FOUR STANDARD ELECTRODES LENGTH.

ELECTRODES SHALL BE JOINED TOGETHER USING COUPLER FROM THE SAME ELECTRODE MATERIAL. ELECTRODES SHALL HAVE 14mm DIAMETER STAINLESS STEEL OR STAINLESS-STEEL CLAD ROD. EARTH PITS SHALL BE INSTALLED AFTER THE ELECTRODES INSTALLATION AND CONNECTION BE COMPLETED FOR INSPECTION PURPOSES.

BONDING TO EARTH ELECTRODE SHALL BE DONE USING DIRECT METHOD AS PER 017866P201 SHEET 1. STRAPS SHALL BE LAID TYPICALLY 300mm INSIDE THE FENCE.

300mm MINIMUM SEPARATION SHALL BE MAINTAINED BETWEEN ACTIVE AND PASSIVE EARTH SYSTEMS.

## 4. SERVICE EARTH BAR (SEB)

SERVICE EARTH BAR SHALL BE MADE OF STAINLESS STEEL OR TINTED COPPER BAR MATERIAL WITH MINIMUM 12 HOLES TO HOST ALL REQUIRED EARTH CABLES CONNECTIONS. REFER TO 017866P201 SHEETS 13 & 14 AS GUIDE FOR SEB WIRING DETAILS. SERVICE EARTH BAR WILL BE PROVIDED AS PART OF SHELTER ORDER.

### "CABLE F"

INSTALL TWO CABLES "F" USING 19/1.53mm G/Y INSULATED EARTH CABLES FROM ACTIVE EARTH GRID TO THE SHELTER INTERNAL EARTH BAR SEB. USE TINED CRIMPED CABLE LUGS TO TERMINATE VIA 10mm S/S NUTS, BOLTS AND WASHERS. TERMINATION TO THE RING EARTH IS TO BE WITHIN THE INSPECTION PIT TO THE FASTENING BOLT OF THE ELECTRODE CLAMP. REFER TO 017866P201 SHEET1 FOR CONNECTION DETAILS.

### "CABLE D"

BOND THE HUT CHASSIS TO SEB VIA A 19/1.53mm G/Y INSULATED CONDUCTOR TERMINATED AT BOTH ENDS WITH CRIMPED TINNED COPPER LUGS AND USE 10mm S/S BUTS, BOLTS AND WASHERS FOR SEB CONNECTION AND GAL NUT BOLT AND WASHERS FOR HUT CHASSIS.

## 5. FEEDER EARTH BAR (FEB)

FEEDER EARTH BAR SHALL BE INSTALLED ON SHELTER CABLE LADDER BEFORE CABLES ENTERING THE CABINETS. ANOTHER TWO FEEDER EARTH BARS ARE TO BE INSTALLED AT THE TOWER FRAME VIA ISOLATORS AS PER G4 DRAWING. TOP FEB BELOW TELSTRA HEAD FRAME AND BOTTOM FEB AT 1m ON FEEDER CABLES ELEVATION. REFER TO 017866P201 SHEET 19 FOR FEB DETAIL. FEB SHALL PROVIDE EARTH CONNECTIONS TO COAX FEEDERS AND TO HYBRID CABLES.

### "CABLE B"

19/1.53mm G/Y INSULATED EARTH CABLES VIA P20 PVC CORRUGATED CONDUIT FROM FEB TO THE CABLE LADDER FRAME.

ANOTHER TWO FEEDER EARTH BARS ARE TO BE INSTALLED AT THE STRUCTURE AS PER G4 DRAWING. TOP FEB BELOW HEAD FRAME AND BOTTOM FEB AT TELSTRA CABLE LADDER LEVEL. THEY SHALL PROVIDE EARTH SERVICES TO FEEDER CABLES AS PER TELSTRA STANDARDS 017866P201 SHEET 11. THESE FEEDER EARTH BARS MUST BE INSTALLED VIA ISOLATORS TO THE STRUCTURE. REFER TO 017866P201 SHEET 9 FOR FEB INSTALLATION.

### "CABLE C"

19/1.53mm G/Y INSULATED CABLE IN P20 CONDUIT SHALL BE INSTALLED FROM FEEDER EARTH BAR (FEB) TO ACTIVE EARTH ELECTRODE OR TO ACTIVE EARTH GRADIENT RING.

### "CABLE M"

A 19/1.53mm G/Y EQUIPOTENTIAL EARTH CABLE SHALL BE INSTALLED FROM TOP FEB TO BOTTOM FEB AND TO ACTIVE EARTH SYSTEM AS CABLE "C".

## 6. CONCRETE POLE EARTHING

### "CABLES K & L"

BOND THE PROPOSED AMPLITEL POLE EARTH BAR TO PASSIVE RING EARTH GRID ELECTRODE USING EARTH STRAP VIA UNDERGROUND IN PARALLEL WITH 19/1.53mm G/Y EARTH CONDUCTOR IN PVC CONDUIT. POLE EARTH BAR SHALL BE BONDED TO A 1m<sup>2</sup> EARTH PLATE VIA EARTH STRAP "CABLE R". EARTH PLATE SHALL BE INSTALLED BELOW THE CONCRETE PAD CENTERED UNDER THE POLE.

### "CABLE P"

CABLE P IS 19/1.53mm STANDARD G/Y INSULATED CONDUCTORS FROM AMPLITEL POLE EARTH BAR TO ACTIVE EARTH PIT ELECTRODE.

## 7. CONNECTION PROTECTION

ALL EXTERNAL EARTH CONNECTIONS ABOVE AND UNDERGROUND BETWEEN STEEL STRAPS, ELECTRODE, COPPER LUG, CABLE TRAY FRAME, TOWER LEG CLEAT SHALL BE PROTECTED USING DENSO PASTE AND DENSO TAPES STOPPING THE CONNECTION EXPOSURE TO THE AMBIENT AND MINIMISE THE ELECTROLYSIS AND CONSEQUENTLY THE CORROSIONS.

## 8. EARTH LABELS

ALL EARTH CABLES SHALL BE LABELLED AT BOTH ENDS USING STAINLESS STEEL LABELS IDENTIFYING THE OTHER END CONNECTION POINTS.

## 9. FEEDER CABLE EARTH

PROPOSED RF AND HYBRID CABLES ARE TO BE EARTHED AT PROPOSED TELSTRA FEEDER EARTH BARS, ON VERTICAL RISE & BEFORE THE ANTENNAS. USE FEEDER EARTH KITS TO BE BONDED TO FEB. REFER TO TELSTRA STANDARDS 017866P201 SHEETS 11 & 12.

## 10. FENCE AND ACCESS GATE EARTHING

### "CABLE J"

CABLES J INTERCONNECT THE GATE POSTS TOGETHER TO BE CONNECTED TO PASSIVE EARTH GRID, BOND THE FENCE POSTS IN DIAGONAL POSITION TO PASSIVE EARTH GRID AS IN TP018ST201 SHEET 1 STEEL MATERIAL.

## 11. CABLE LADDER EARTHING

### "CABLE H"

BOND THE CABLE LADDER FIRST POST FROM SHELTER AS PER G4 DRAWING TO THE ACTIVE EARTH GRID USING 19/1.53mm G/Y INSULATED CABLES IN P20 CONDUIT. FOR TERMINATION, USE APPROVED CRIMPED CABLE LUGS AND 10mm GALVANISED NUTS, BOLTS AND WASHERS.

COMPLIANCE BOX

COMPLETED AS PER DESIGN

ALTERATIONS IN RED

NAME (PRINT) \_\_\_\_\_

SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_

FOR CONSTRUCTION



ORDER	DRAWN	CHKD	AMENDMENT	EXAM	APPD	DATE	ISS
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[REDACTED]

EARTHING NOTES

SAWPIT CREEK UTILITIES DEPOT, KOSCIUSZKO RD, WILSONS VALLEY, NSW 2624

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DWG NO. <b>NSW008167</b>	SHT NO. G4-1
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# ELECTRICAL SPECIFICATION

## 1. GENERAL

ELECTRICAL INSTALLATION SHALL BE IN ACCORDANCE WITH THIS SPECIFICATION, DRAWING E2, AS 3000, AS 3008, AS3015, AS1768 AND ALL OTHER RELEVANT AUSTRALIAN STANDARDS AND NEW SOUTH WALES SERVICE AND INSTALLATION RULES. LATEST EDITIONS AND AMENDMENTS AT TIME OF CONSTRUCTION SHALL APPLY.

CONTRACTOR TO ENSURE FAULT CURRENT RATINGS OF PROTECTIVE EQUIPMENT INSTALLED ARE ADEQUATE FOR PROSPECTIVE FAULT LEVELS.

THE CABLE ROUTE SHALL BE AS DIRECT AS POSSIBLE. WHERE CABLE TURNS ARE REQUIRED, THE RADIUS OF ANY BENDS SHALL NOT BE LESS THAN THE MINIMUM BENDING RADIUS OF THE CABLE.

UNDERGROUND CABLING IS TO BE INSTALLED IN HEAVY DUTY RIGID uPVC CONDUIT. ALL EXPOSED CABLE AND CONDUITS SHALL BE UV RESISTANT. THE CABLE ROUTE SHALL GENERALLY BE AS SHOWN ON DRGs S1 AND S1-1.

CONTRACTOR SHALL MAKE THEMSELVES AWARE OF ALL EXISTING SERVICES, UNDERGROUND INFRA-STRUCTURE, CONDITIONS HEALTH AND SAFETY PRIOR TO COMMENCING WORK ON SITE.

SITES SHUTDOWN WILL BE REQUIRED. TELSTRA ELECTRICAL CONTRACTOR TO LIAISE WITH LANDLORD MANAGEMENT TO PROVIDE ALTERNATIVE GENERATOR POWER SUPPLY DURING THE ENTIRE SHUTDOWN PERIOD IF REQUIRED.

## 2. MAINS SUPPLY

EXISTING PROPERTY SUPPLY CAPACITY IS LIMITED TO 20A 3-PHASE WITH NO OVERHEAD CAPACITY IN THIS SUPPLY FOR TELSTRA PROJECT. APPLICATION SUBMITTED TO ESSENTIAL ENERGY TO GET 50A 3-PHASE TO TELSTRA PROJECT OR 80A TOTAL SUPPLY TO TELSTRA AND LANDLORD. ESSENTIAL ENERGY RECOMMEND LEVEL 3 DESIGN TO UPGRADE THEIR LOW VOLTAGE NETWORK TO FACILITATE THE SUPPLY TO TELSTRA PROJECT.

A NEW 50A, 3-PHASE SUPPLY FOR TELSTRA SHALL BE OBTAINED VIA A NEW SITE METER PANEL TO BE GROUPED WITH LANDLORD METER.

## 3. PROPOSED GROUP METER PANEL/CABINET

EXISTING LANDLORD MAIN SWITCH PANEL IS FULLY OCCUPIED. NO ROOM AVAILABLE TO ACCOMMODATE TELSTRA METERING. IT IS RECOMMENDED TO USE A NEW METAL ENCLOSURE FROM B&R TB2424/U OR SIMILAR PRODUCT. PROPOSED ENCLOSURE WILL HOST BELOW EQUIPMENT:

- PROPOSED SITE PROTECTION DEVICE 80A 3P IN COMPLYING WITH ESSENTIAL ENERGY OFFER.
- PROPOSED SUPPLY CONTROL FOR LANDLORD METER 32A 3P MCB
- RELOCATED LANDLORD METER WITH METER DISCONNECTION FUSES
- PROPOSED SUPPLY CONTROL FOR TELSTRA METER 50A 3-PHASE MCB
- PROPOSED TELSTRA METER WITH DISCONNECTION FUSES
- PROPOSED TELSTRA 63A ISOLATION SWITCH

REFER TO SHEET E2 FOR GMP WIRING DETAILS.

## 4. SITE CONSUMER MAINS

EXISTING CONSUMER MAINS SHALL BE UPGRADED TO 80A RATING. USE 2 CORES 16mm<sup>2</sup> XLPE/PVC CABLES FROM ESSENTIAL ENERGY SERVICE POLE NUMBER 1320/49/20/2/2 TO GROUP METER PANEL. RE-USE EXISTING UNDERGROUND PVC CONDUIT IF DEEMED SUITABLE TO HOST THE NEW CONSUMER CABLES.

## 5. TELSTRA SUBMAINS

INSTALL A NEW 1x4C 16mm<sup>2</sup> Cu XLPE/PVC+E SUBMAINS CABLE FROM THE NEW SITE GROUP METER PANEL TO TELSTRA POWER ENCLOSURE ON TELSTRA SHELTER. CABLES MUST BE INSTALLED VIA UNDERGROUND IN P63 PVC CONDUIT AS PER CATEGORY A WIRING IN AS3000. PARAGRAPH 3.11.3.1. APPROXIMATE TELSTRA SUB-MAINS RUN IS 30m.

## 6. TELSTRA ISOLATION POWER BOX

TELSTRA SUB-MAINS WILL BE TERMINATED IN TELSTRA ISOLATION POWER BOX ON TELSTRA SHELTER AT 50A 3P ISOLATION SWITCH. PROVIDE AND INSTALL 50A 3-PHASE MCB FOR EMERGENCY POWER SUPPLY.

## 7. APPLICATION FOR ELECTRICITY SUPPLY

NEW POWER APPLICATION SUBMITTED TO ESSENTIAL ENERGY TO GET 50A 3-PHASE SUPPLY TO TELSTRA PROJECT. APPLICATION REFERENCE NUMBER IS 00108655. NMI NUMBER IS 40013558915.

## 8. EARTHING

REFER TO SHEETS G4 AND G4-1 FOR SITE EARTHING PLAN.

## 9. LABELLING

THE CONTRACTOR IS TO CLEARLY LABEL ALL ITEMS OF ELECTRICAL EQUIPMENT INCLUDING METERS, FUSES, SWITCHES AND CIRCUIT BREAKERS. LABELS SHALL BE "TRAFFOLYTE" WITH BLACK LETTERING ON WHITE BACKGROUND.

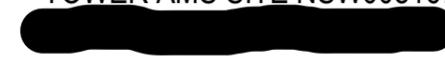
UNAPPROVED  
DRAWING

**COMPLIANCE BOX**  
 COMPLETED AS PER DESIGN   
 ALTERATIONS IN RED   
 NAME (PRINT) \_\_\_\_\_  
 SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_

FOR CONSTRUCTION

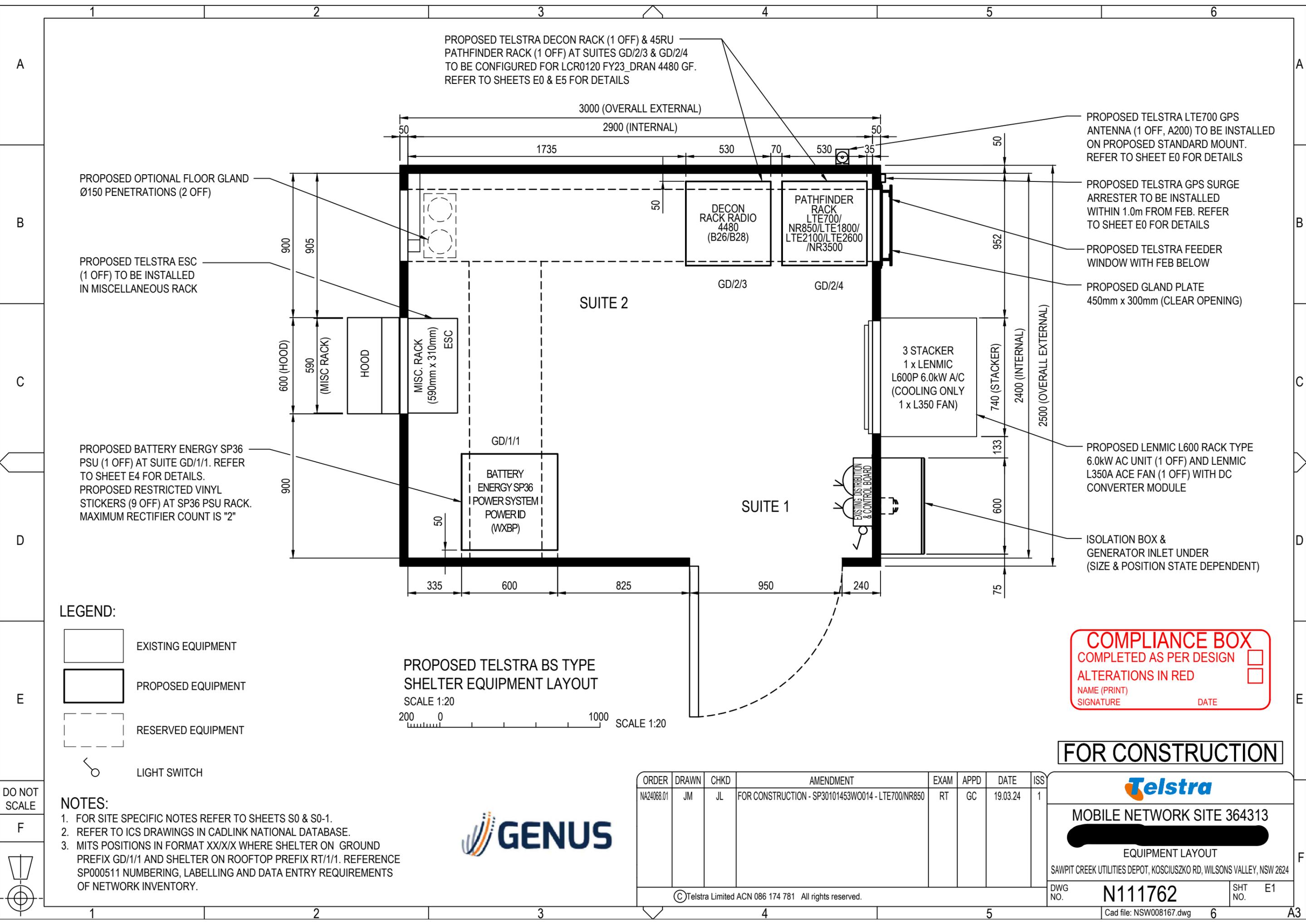


ORDER	DRAWN	CHKD	AMENDMENT	EXAM	APPD	DATE	ISS
NA24068.01	JM	JL	FOR CONSTRUCTION - SP30101453W0014 - LTE700/NR850	RT	GC	19.03.24	1

  
**AMPLITEL**  
Part of the Telstra Group  
**TOWER AMS SITE NSW008167**  
  
 ELECTRICAL SPECIFICATION  
SAWPIT CREEK UTILITIES DEPOT, KOSCIUSZKO RD, WILSONS VALLEY, NSW 2624

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DWG NO. **NSW008167** SHT NO. E0



PROPOSED TELSTRA DECON RACK (1 OFF) & 45RU  
 PATHFINDER RACK (1 OFF) AT SUITES GD/2/3 & GD/2/4  
 TO BE CONFIGURED FOR LCR0120 FY23\_DRAN 4480 GF.  
 REFER TO SHEETS E0 & E5 FOR DETAILS

PROPOSED TELSTRA LTE700 GPS  
 ANTENNA (1 OFF, A200) TO BE INSTALLED  
 ON PROPOSED STANDARD MOUNT.  
 REFER TO SHEET E0 FOR DETAILS

PROPOSED OPTIONAL FLOOR GLAND  
 Ø150 PENETRATIONS (2 OFF)

PROPOSED TELSTRA GPS SURGE  
 ARRESTER TO BE INSTALLED  
 WITHIN 1.0m FROM FEB. REFER  
 TO SHEET E0 FOR DETAILS

PROPOSED TELSTRA ESC  
 (1 OFF) TO BE INSTALLED  
 IN MISCELLANEOUS RACK

PROPOSED TELSTRA FEEDER  
 WINDOW WITH FEB BELOW

PROPOSED GLAND PLATE  
 450mm x 300mm (CLEAR OPENING)

PROPOSED BATTERY ENERGY SP36  
 PSU (1 OFF) AT SUITE GD/1/1. REFER  
 TO SHEET E4 FOR DETAILS.  
 PROPOSED RESTRICTED VINYL  
 STICKERS (9 OFF) AT SP36 PSU RACK.  
 MAXIMUM RECTIFIER COUNT IS "2"

PROPOSED LENMIC L600 RACK TYPE  
 6.0kW AC UNIT (1 OFF) AND LENMIC  
 L350A ACE FAN (1 OFF) WITH DC  
 CONVERTER MODULE

ISOLATION BOX &  
 GENERATOR INLET UNDER  
 (SIZE & POSITION STATE DEPENDENT)

**LEGEND:**

- EXISTING EQUIPMENT
- PROPOSED EQUIPMENT
- RESERVED EQUIPMENT
- LIGHT SWITCH

**NOTES:**

1. FOR SITE SPECIFIC NOTES REFER TO SHEETS S0 & S0-1.
2. REFER TO ICS DRAWINGS IN CADLINK NATIONAL DATABASE.
3. MITS POSITIONS IN FORMAT XX/X/X WHERE SHELTER ON GROUND PREFIX GD/1/1 AND SHELTER ON ROOFTOP PREFIX RT/1/1. REFERENCE SP000511 NUMBERING, LABELLING AND DATA ENTRY REQUIREMENTS OF NETWORK INVENTORY.

PROPOSED TELSTRA BS TYPE  
 SHELTER EQUIPMENT LAYOUT  
 SCALE 1:20

**COMPLIANCE BOX**  
 COMPLETED AS PER DESIGN   
 ALTERATIONS IN RED   
 NAME (PRINT) \_\_\_\_\_  
 SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_

**FOR CONSTRUCTION**



ORDER	DRAWN	CHKD	AMENDMENT	EXAM	APPD	DATE	ISS
NA24068.01	JM	JL	FOR CONSTRUCTION - SP30101453W0014 - LTE700/NR850	RT	GC	19.03.24	1

**Telstra**

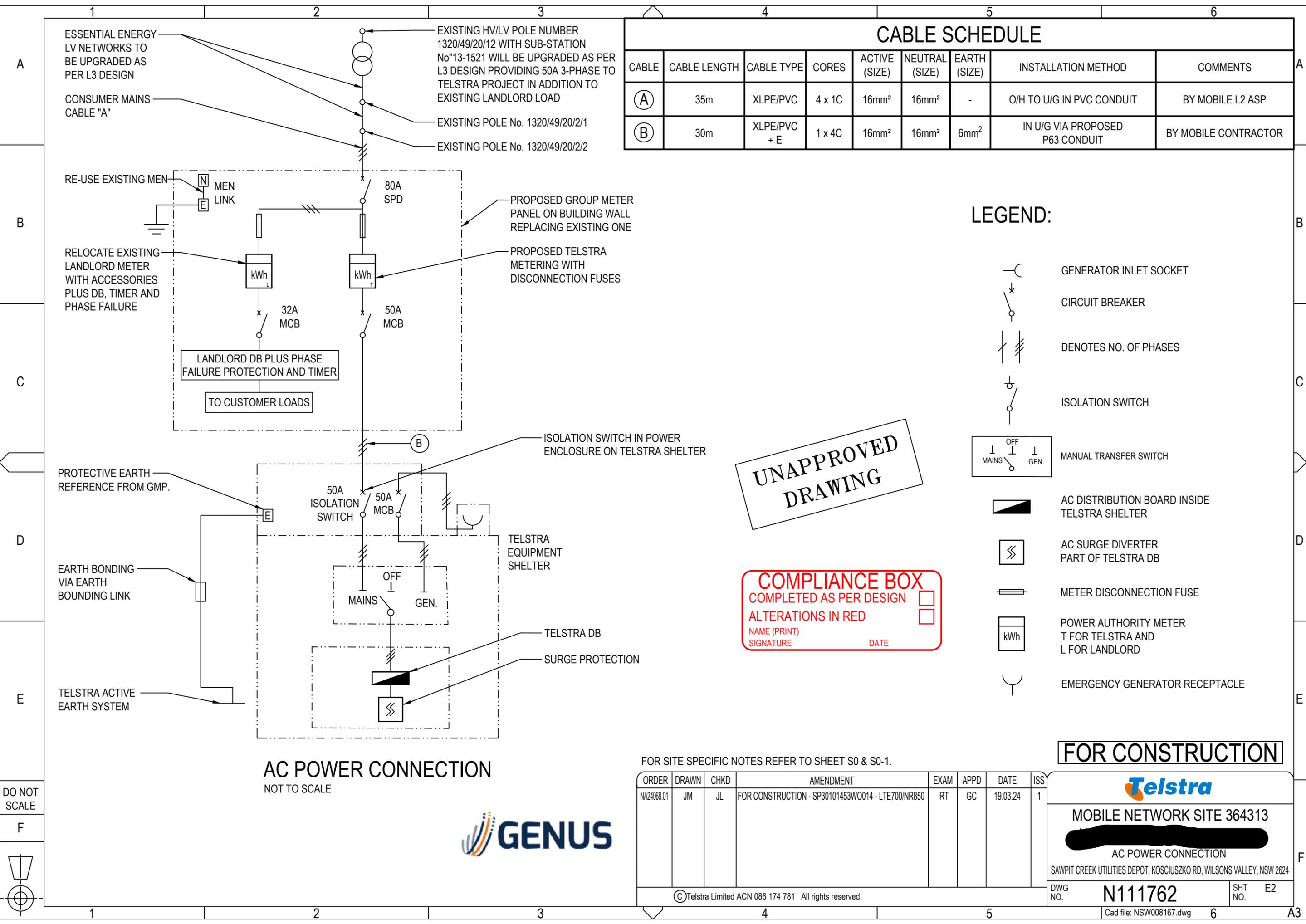
**MOBILE NETWORK SITE 364313**

████████████████████  
 EQUIPMENT LAYOUT

SAWPIT CREEK UTILITIES DEPOT, KOSCIUSZKO RD, WILSONS VALLEY, NSW 2624

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### CABLE SCHEDULE

CABLE	CABLE LENGTH	CABLE TYPE	CORES	ACTIVE (SIZE)	NEUTRAL (SIZE)	EARTH (SIZE)	INSTALLATION METHOD	COMMENTS
(A)	35m	XLPE/PVC	4 x 1C	16mm <sup>2</sup>	16mm <sup>2</sup>	-	O/H TO U/G IN PVC CONDUIT	BY MOBILE L2 ASP
(B)	30m	XLPE/PVC + E	1 x 4C	16mm <sup>2</sup>	16mm <sup>2</sup>	6mm <sup>2</sup>	IN U/G VIA PROPOSED P63 CONDUIT	BY MOBILE CONTRACTOR

### LEGEND:

- GENERATOR INLET SOCKET
- CIRCUIT BREAKER
- DENOTES NO. OF PHASES
- ISOLATION SWITCH
- MANUAL TRANSFER SWITCH
- AC DISTRIBUTION BOARD INSIDE TELSTRA SHELTER
- AC SURGE DIVERTER PART OF TELSTRA DB
- METER DISCONNECTION FUSE
- POWER AUTHORITY METER T FOR TELSTRA AND L FOR LANDLORD
- EMERGENCY GENERATOR RECEPTACLE

**UNAPPROVED DRAWING**

**COMPLIANCE BOX**  
 COMPLETED AS PER DESIGN   
 ALTERATIONS IN RED   
 NAME (PRINT) \_\_\_\_\_  
 SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_

### AC POWER CONNECTION

NOT TO SCALE



FOR SITE SPECIFIC NOTES REFER TO SHEET S0 & S0-1.

ORDER	DRAWN	CHKD	AMENDMENT	EXAM	APPD	DATE	ISS
NA24068.01	JM	JL	FOR CONSTRUCTION - SP30101453W0014 - LTE700/NR850	RT	GC	19.03.24	1

**FOR CONSTRUCTION**

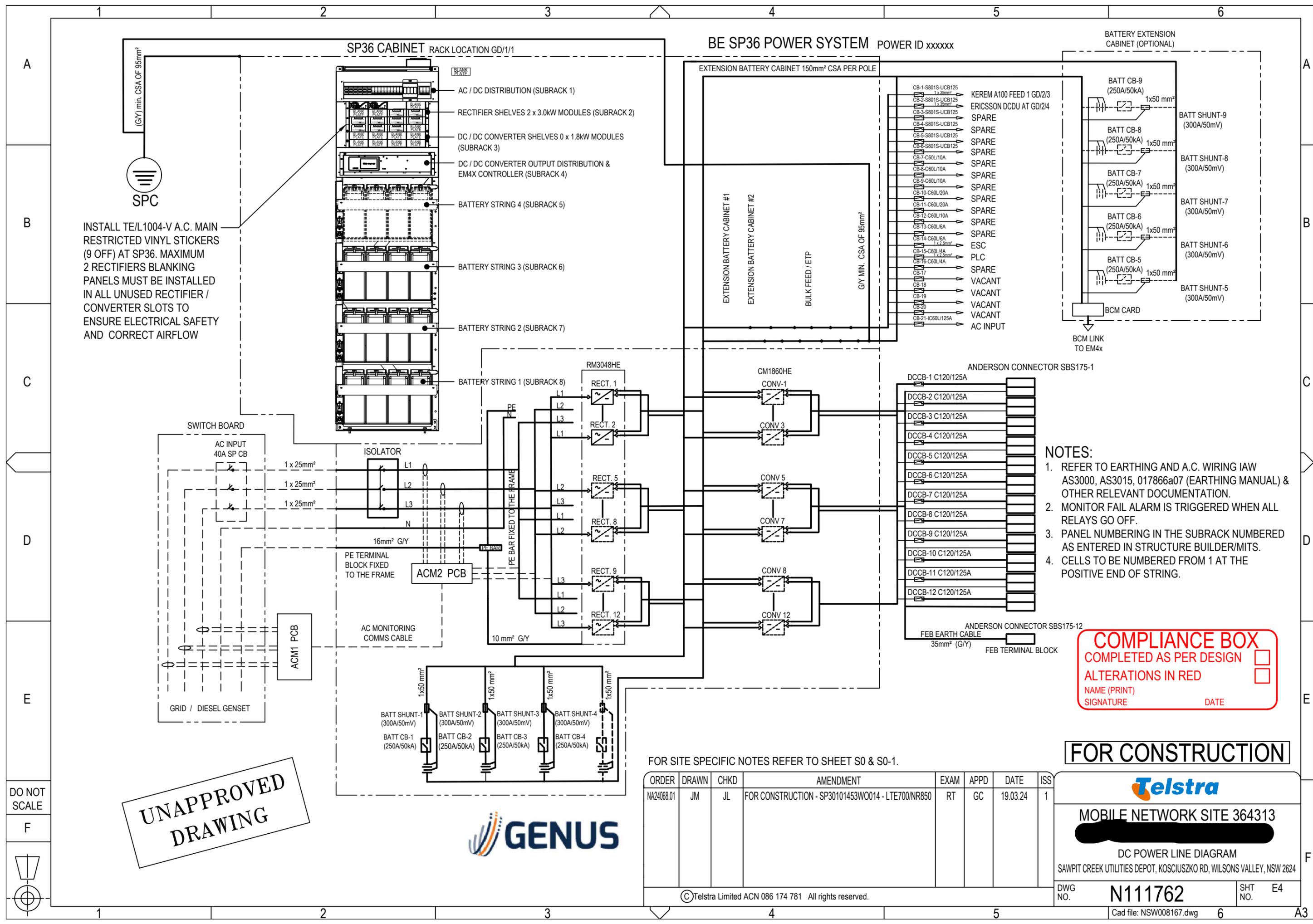
**Telstra**

**MOBILE NETWORK SITE 364313**

[REDACTED]

AC POWER CONNECTION

SAWPIT CREEK UTILITIES DEPOT, KOSCIUSZKO RD, WILSONS VALLEY, NSW 2624



INSTALL TE/L1004-V A.C. MAIN RESTRICTED VINYL STICKERS (9 OFF) AT SP36. MAXIMUM 2 RECTIFIERS BLANKING PANELS MUST BE INSTALLED IN ALL UNUSED RECTIFIER / CONVERTER SLOTS TO ENSURE ELECTRICAL SAFETY AND CORRECT AIRFLOW

- NOTES:**
- REFER TO EARTHING AND A.C. WIRING IAW AS3000, AS3015, 017866a07 (EARTHING MANUAL) & OTHER RELEVANT DOCUMENTATION.
  - MONITOR FAIL ALARM IS TRIGGERED WHEN ALL RELAYS GO OFF.
  - PANEL NUMBERING IN THE SUBRACK NUMBERED AS ENTERED IN STRUCTURE BUILDER/MITS.
  - CELLS TO BE NUMBERED FROM 1 AT THE POSITIVE END OF STRING.

**COMPLIANCE BOX**  
 COMPLETED AS PER DESIGN   
 ALTERATIONS IN RED   
 NAME (PRINT) \_\_\_\_\_  
 SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_

**FOR CONSTRUCTION**

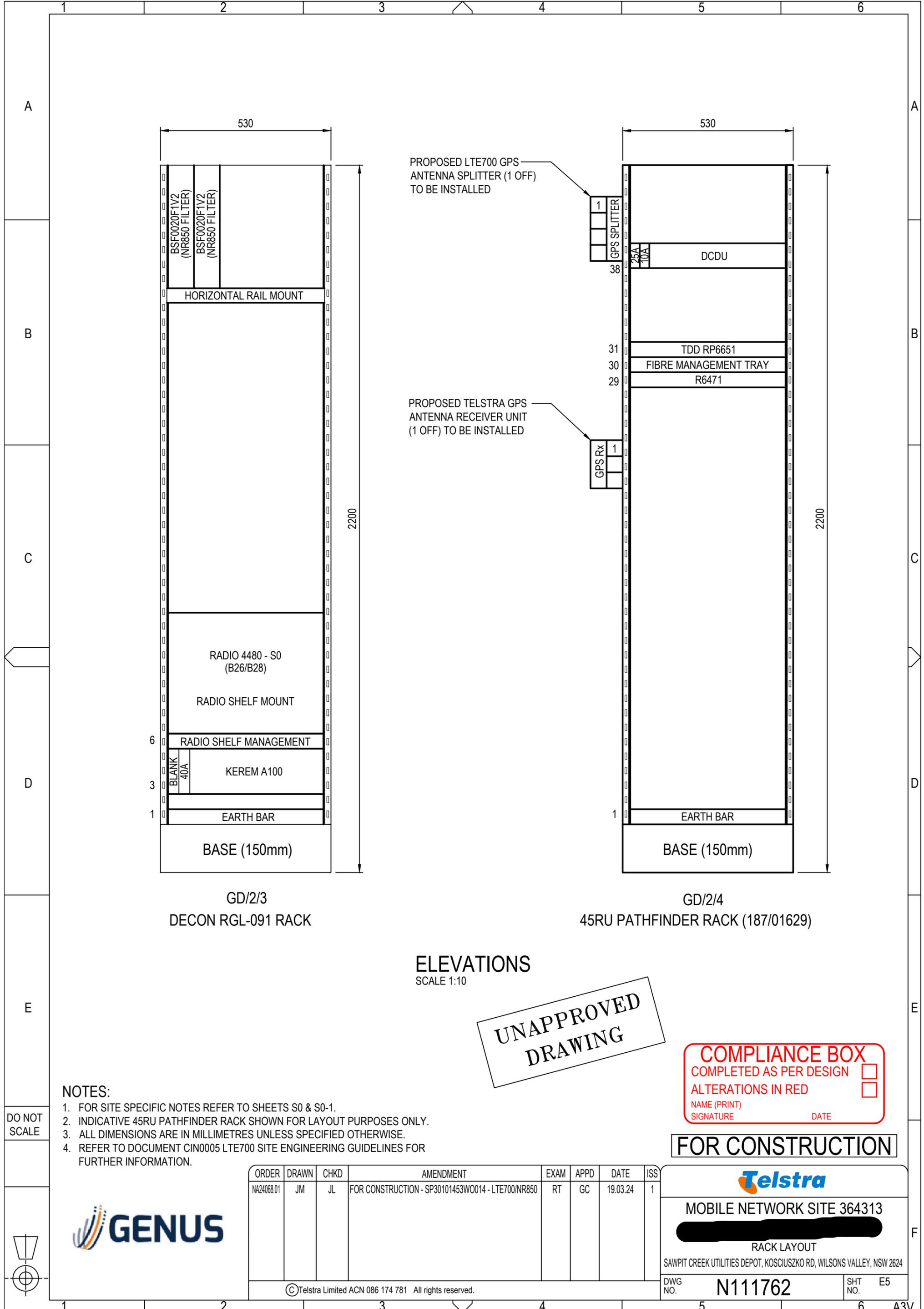
**UNAPPROVED DRAWING**



FOR SITE SPECIFIC NOTES REFER TO SHEET S0 & S0-1.

ORDER	DRAWN	CHKD	AMENDMENT	EXAM	APPD	DATE	ISS
NA24068.01	JM	JL	FOR CONSTRUCTION - SP30101453W0014 - LTE700/NR850	RT	GC	19.03.24	1

**Telstra**  
 MOBILE NETWORK SITE 364313  
 DC POWER LINE DIAGRAM  
 SAWPIT CREEK UTILITIES DEPOT, KOSCIUSZKO RD, WILSONS VALLEY, NSW 2624



PROPOSED LTE700 GPS ANTENNA SPLITTER (1 OFF) TO BE INSTALLED

PROPOSED TELSTRA GPS ANTENNA RECEIVER UNIT (1 OFF) TO BE INSTALLED

GD/2/3  
DECON RGL-091 RACK

GD/2/4  
45RU PATHFINDER RACK (187/01629)

ELEVATIONS  
SCALE 1:10

**UNAPPROVED  
DRAWING**

**COMPLIANCE BOX**  
 COMPLETED AS PER DESIGN   
 ALTERATIONS IN RED   
 NAME (PRINT) \_\_\_\_\_  
 SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_

**FOR CONSTRUCTION**

NOTES:

- FOR SITE SPECIFIC NOTES REFER TO SHEETS S0 & S0-1.
- INDICATIVE 45RU PATHFINDER RACK SHOWN FOR LAYOUT PURPOSES ONLY.
- ALL DIMENSIONS ARE IN MILLIMETRES UNLESS SPECIFIED OTHERWISE.
- REFER TO DOCUMENT CIN0005 LTE700 SITE ENGINEERING GUIDELINES FOR FURTHER INFORMATION.

DO NOT SCALE

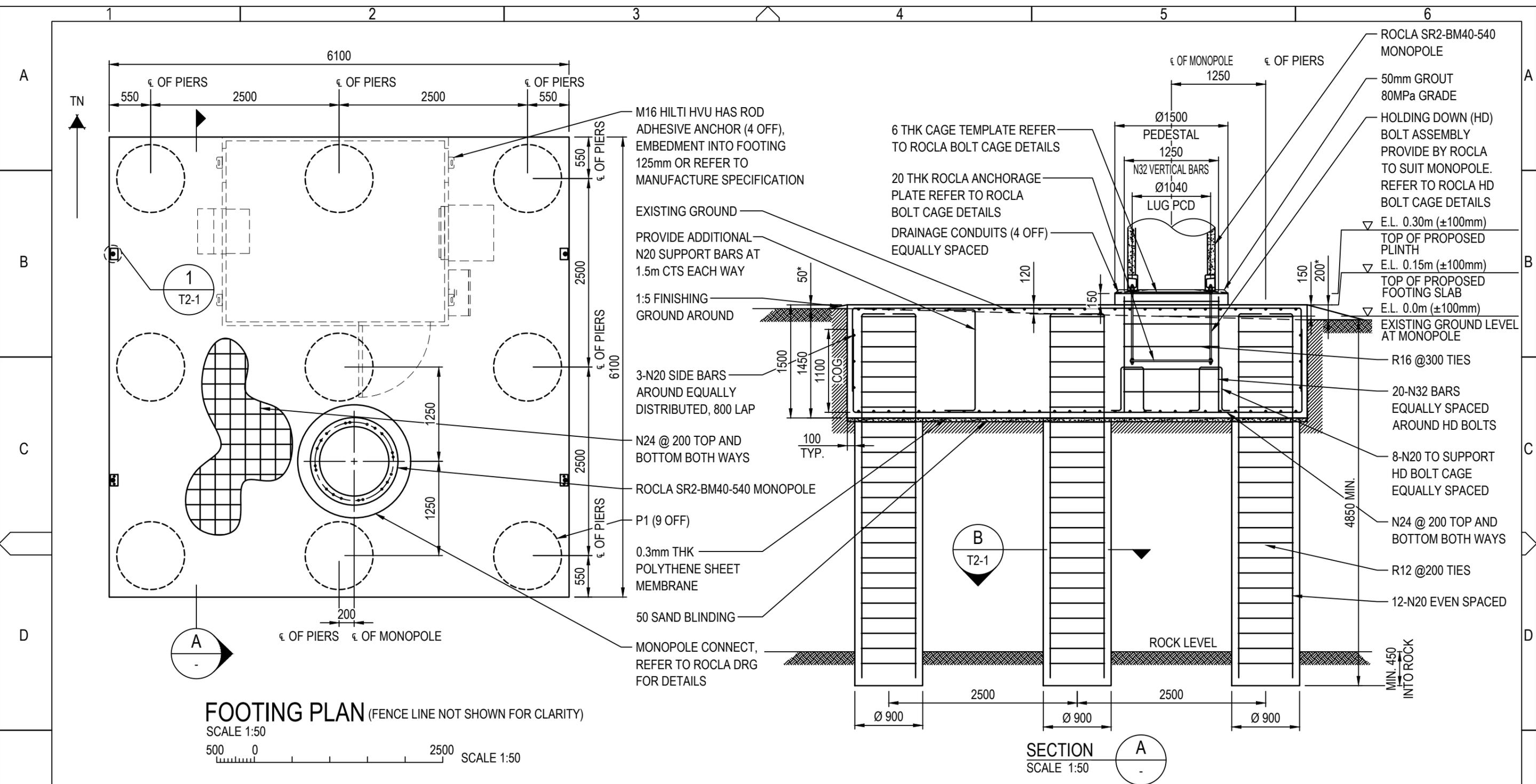


ORDER	DRAWN	CHKD	AMENDMENT	EXAM	APPD	DATE	ISS
NA24068.01	JM	JL	FOR CONSTRUCTION - SP30101453W0014 - LTE700/NR850	RT	GC	19.03.24	1

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**Telstra**  
 MOBILE NETWORK SITE 364313  
 [REDACTED]  
 RACK LAYOUT  
 SAWPIT CREEK UTILITIES DEPOT, KOSCIUSZKO RD, WILSONS VALLEY, NSW 2624  
 DWG NO. **N111762** SHT NO. E5





**UNAPPROVED DRAWING**

**COMPLIANCE BOX**  
COMPLETED AS PER DESIGN   
ALTERATIONS IN RED   
NAME (PRINT) \_\_\_\_\_  
SIGNATURE \_\_\_\_\_ DATE \_\_\_\_\_



**NOTES:**  
1. REFER TO SHEET T2-1 FOR NOTES.

**FOR CONSTRUCTION**

ORDER	DRAWN	CHKD	AMENDMENT	EXAM	APPD	DATE	ISS
NA24068.01	JM	JL	FOR CONSTRUCTION - SP30101453W0014 - LTE700/NR850	RT	GC	19.03.24	1

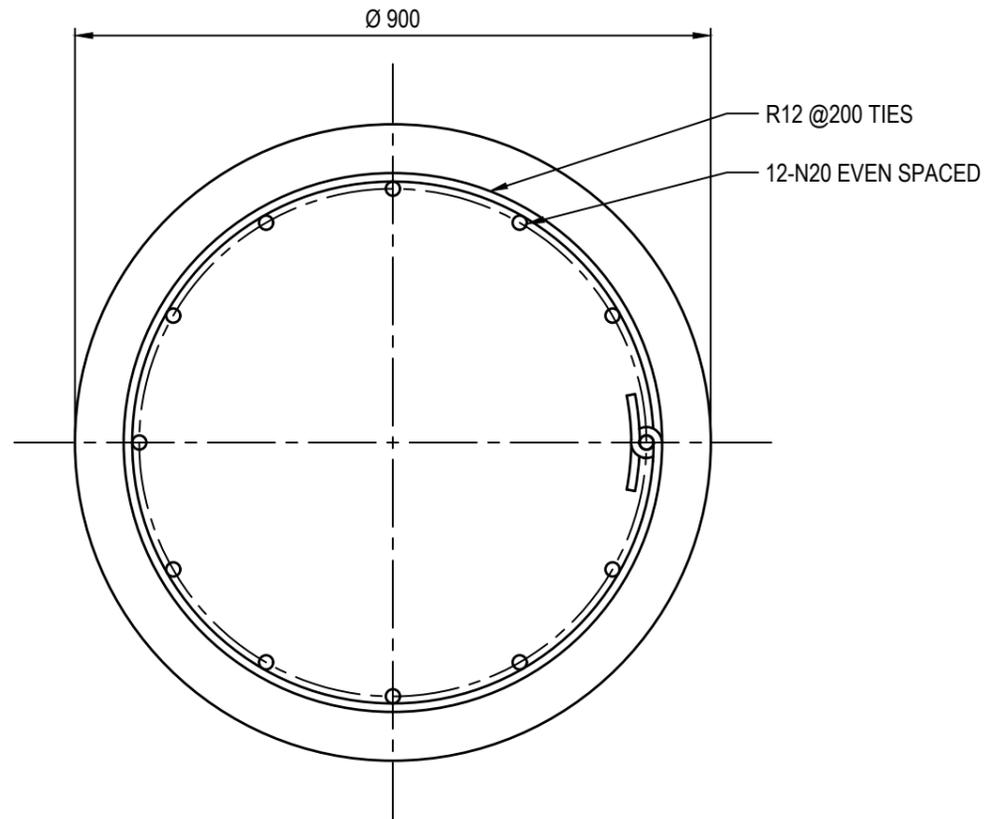
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**TOWER AMS SITE NSW008167**

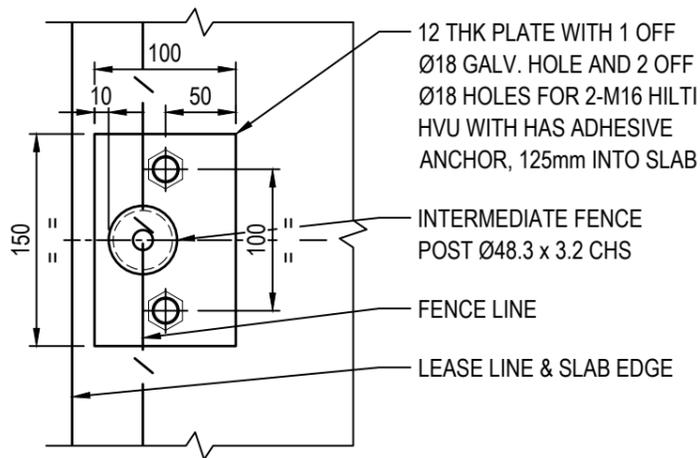
MONOPOLE FOUNDATION DETAILS - SHEET 1 OF 2  
SAWPIT CREEK UTILITIES DEPOT, KOSCIUSZKO RD, WILSONS VALLEY, NSW 2624

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DWG NO. **NSW008167** SHT NO. T2



SECTION B  
SCALE 1:10



DETAIL 1  
SCALE 1:5

**NOTES:**

1. SAFE WORKING PRACTICE SHALL BE CARRIED OUT IN ACCORDANCE WITH AS2159 AND STATE AND LOCAL STATUTORY REGULATION.
2. FOR GENERAL NOTES CONCRETE AND FOUNDATION NOTES REFER TO AMPLITEL DRG TP018ST04.
3. FOUNDATION DESIGN IS BASED ON THE SITE SPECIFIC GEOTECHNICAL INVESTIGATION REPORT. REFER TO GEOTECHNICAL REPORT NO. 1240049-1 ISSUE 2 26/02/2021 PREPARED BY CIVIL TEST.
4. UPON COMPLETION OF EXCAVATION, THE HOLE NEED TO BE INSPECTED BY A GEOTECHNICAL ENGINEER AND CERTIFY THE PARAMETERS IN HE ABOVE GEOTECHNICAL REPORT PREPARED BY CIVIL TEST, PTY LTD.
5. CONCRETE STRENGTH OF POUR TO BE  $f_c=32MPa$  MINIMUM AT 28 DAYS MAXIMUM.
6. SLUMP TEST PRIOR TO POUR, MAXIMUM 80mm FOR ALL CONCRETE.
7. CURE TIME 28 DAYS PRIOR TO LOADING.
8. THREE COMPRESSION TEST FOR 28 DAYS TEST. REPORT TO DESIGN ENGINEER FOR APPROVAL. ALL THREE SAMPLES TO BE KEPT ON SITE.
9. COVER TO BE 45mm ON TOP, 75mm ON SIDES AND 75mm ON BOTTOM.
10. BACKFILL TO BE GRANULAR, FREE OF ORGANIC MATERIAL AND COMPACTED TO AL LEAST 95% MAXIMUM DRY DENSITY.
11. NO CONSTRUCTION JOINTS ARE ALLOWED EXCEPT BETWEEN THE TRANSITION BOX AND THE BORED PIER.
12. ALL GROUT SHALL BE 75mm THICKNESS, NON-FERROUS & NON SHRINK GROUT EDGES SHALL BE TAPERED OFF AT 45 DEGREES, UNLESS NOTED.
13. PRIOR TO COMMENCEMENT OF ANY EXCAVATION, CONTRACTOR SHALL VERIFY THAT THE LOCATION IS CLEAR OF ALL UNDERGROUND SERVICES.
14. THE BASE EXCAVATION SHALL BE CLEAN OF LOOSE MATERIAL AND DEBRIS.
15. PRIOR TO CONCRETING, THE REINFORCEMENT SHALL BE INSPECTED BY A COMPETENT PERSON FOR COMPLIANCE, CONFORMANCE AND APPROVAL.
16. WATER SHALL NOT BE ALLOWED TO POND IN FOOTING FOR ANY LENGTH OF TIME.
17. THIS DRAWING MUST BE READ IN CONJUNCTION WITH THE MONOPOLE SETTING TEMPLATE DRAWING.

**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
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[REDACTED]

MONOPOLE FOUNDATION DETAILS - SHEET 2 OF 2  
SAWPIT CREEK UTILITIES DEPOT, KOSCIUSZKO RD, WILSONS VALLEY, NSW 2624