



BYLONG NO. 3 TUNNEL EXIT

Node Manager Address ID: 252474

ADDRESS: 455 WOLLGYS RD
UPPER BYLONG
NSW 2849

DRAWING/DOCUMENT DESCRIPTION	DRAWING NUMBER	SHEET NO.	ISSUE NO.	ISSUE DATE	DRAWING STATUS				
					CANCELLED	PRELIMINARY	FOR CONSTRUCTION	AS BUILT	REFERENCE ONLY
SITE SPECIFIC NOTES - SHEET 1 OF 2	N28234	S0	1	18/11/22			✓		
SITE SPECIFIC NOTES - SHEET 2 OF 2	N28234	S0-1	1	18/11/22			✓		
LOCALITY PLAN AND SITE ACCESS	N28234	S1	5	18/11/22			✓		
OPTICAL FIBRE LINK ROUTE SHEET 1 OF 4	N28234	S1.1	1	11/04/08				✓	
OPTICAL FIBRE LINK ROUTE SHEET 2 OF 4	N28234	S1.2	1	11/04/08				✓	
OPTICAL FIBRE LINK ROUTE SHEET 3 OF 4	N28234	S1.3	1	11/04/08				✓	
OPTICAL FIBRE LINK ROUTE SHEET 4 OF 4	N28234	S1.4	1	11/04/08				✓	
OPTICAL FIBRE LINK ROUTE - NOTES	N28234	S1.5	1	11/04/08	✓				
SITE SETOUT PLAN - SHEET 1 OF 2	N28234	S1-7	1	18/11/22			✓		
SITE SETOUT PLAN - SHEET 1 OF 2	N28234	S1-8	1	18/11/22			✓		
ANTENNA LAYOUT	N28234	S1-9	1	18/11/22			✓		
TUNNEL LAYOUT	N28234	S1-10	1	18/11/22			✓		
SITE SETOUT PLAN	N28234	S2	1	11/04/08	✓				
SOUTH ELEVATION	N28234	S3	4	18/11/22			✓		
ANTENNA CONFIGURATION TABLE	N28234	S3-1	1	18/11/22			✓		
TUNNEL ELEVATION - SHEET 1 OF 6	N28234	S3-2	1	18/11/22			✓		
TUNNEL ELEVATION - SHEET 2 OF 6	N28234	S3-3	1	18/11/22			✓		
TUNNEL ELEVATION - SHEET 3 OF 6	N28234	S3-4	1	18/11/22			✓		
TUNNEL ELEVATION - SHEET 4 OF 6	N28234	S3-5	1	18/11/22			✓		
TUNNEL ELEVATION - SHEET 5 OF 6	N28234	S3-6	1	18/11/22			✓		
TUNNEL ELEVATION - SHEET 6 OF 6	N28234	S3-7	1	18/11/22			✓		
SITE SIGNAGE	N28234	S6	1	11/04/08				✓	
ANTENNA LAYOUT	N28234	A1	1	18/11/22	✓				
EME EXCLUSION ZONES	N28234	A1-1	1	18/11/22			✓		
ANTENNA & FEEDER CONNECTION SCHEMATIC	N28234	A2	1	21/05/09				✓	
ELECTRICAL SPECIFICATION	N28234	E0	1	21/05/09				✓	
EQUIPMENT LAYOUT	N28234	E1	2	18/11/22			✓		
AC POWER CONNECTION	N28234	E2	1	11/04/08				✓	
AC POWER LINE SCHEMATIC	N28234	E2-1	1	11/04/08				✓	
HUT AC POWER LINE SCHEMATIC	N28234	E2-2	1	11/04/08				✓	
DC POWER LINE DIAGRAM - SHEET 1 OF 3	N28234	E4	1	18.11.22			✓		
DC POWER LINE DIAGRAM - SHEET 2 OF 3	N28234	E4-1	1	18.11.22			✓		
DC POWER LINE DIAGRAM - SHEET 3 OF 3	N28234	E4-2	1	18.11.22			✓		
RACK LAYOUT	N28234	E5	1	18.11.22			✓		

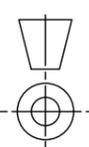
ORDER	DRWN	CHKD	AMENDMENT	EXAM	APPD	DATE	ISS
NA06090.01	LD	AO	ISSUED FOR CONSTRUCTION	AO	MM	30.11.07	0
NA06090	JJA	D.C.	AS BUILT WCDMA850 - SP68945774	D.C.	JJA	10.04.07	1
X11003	GW	GW	ARTC TUNNEL PMRS - 70838161w001	RR	RR	18.04.11	2
NA24240.01	JM	TL	FOR CONSTRUCTION - SP30098633WO002DOWN	RC	PG	18.11.22	3

MOBILE NETWORK SITE 252474
BYLONG NO.3 TUNNEL EXIT

DRAWING INDEX AND DOCUMENT CONTROL - SHEET 1 OF 2
455 WOLLGYS RD, UPPER BYLONG, 2849

DWG NO. **N28144** SHT NO. DC

DO NOT SCALE



	1	2	3	4	5	6				
A	DRAWING/DOCUMENT DESCRIPTION	DRAWING NUMBER	SHEET NO.	ISSUE NO.	ISSUE DATE	DRAWING STATUS				
						CANCELLED	PRELIMINARY	FOR CONSTRUCTION	AS BUILT	REFERENCE ONLY
B	SITE EARTHING PLAN	N28234	G4	1	11/04/08				✓	
	ARTC SHELTER INTERNAL EARTHING	N28234	G4.1	1	11/04/08				✓	
	VERTICAL FEEDER GANTRY EARTHING	N28234	G4.2	1	11/04/08	✓				
	SITE EARTHING	N28234	G4-3	1	18/11/22			✓		
C	MONOPOLE FOOTING DETAILS	N28234	T2	1	18/11/22			✓		
	ANTENNA MOUNTING DETAILS	N28234	T3	1	11/04/08				✓	
	ANTENNA MOUNTING STRUCTURAL DETAILS- 1 OF 3	N28234	T3.1	1	11/04/08				✓	
	ANTENNA MOUNTING STRUCTURAL DETAILS- 1 OF 3	N28234	T3.1	1	11/04/08				✓	
	ANTENNA MOUNTING STRUCTURAL DETAILS- 2 OF 3	N28234	T3.2	1	11/04/08				✓	
	ANTENNA MOUNTING STRUCTURAL DETAILS- 3 OF 3	N28234	T3.3	1	11/04/08				✓	
	TUNNEL ANTENNA MOUNT DETAILS	N28234	T3-4	1	18/11/22			✓		
	SATELLITE ANTENNA MOUNTING DETAIL	N28234	T3-5	1	18/11/22			✓		
	PANEL ANTENNA MOUNT DETAILS - SHEET 1 OF 2	N28234	T3-6	1	18/11/22			✓		
	PANEL ANTENNA MOUNT DETAILS - SHEET 2 OF 2	N28234	T3-7	1	18/11/22			✓		
D	HORIZONTAL GANTRY DETAILS	N28234	T5	1	11/04/08				✓	
	STRUCTURAL GENERAL NOTES	N28234	T8	1	11/04/08	✓				
	FEEDER FIXING DETAILS WITH STEEL LINING - SHEET 1 OF 2	N28234	T8-1	1	18/11/22			✓		
	FEEDER FIXING DETAILS WITH STEEL LINING - SHEET 2 OF 2	N28234	T8-2	1	18/11/22			✓		
	FEEDER FIXING DETAILS	N28234	T8-3	1	18/11/22			✓		
	STANDARD REFERENCE DRAWINGS									
	STANDARD CONSTRUCTION NOTES	017866P05	1	2	19/11/10			✓		
	CABLE LADDER FIXING TO SHELTER AND CONCRETE MONOPOLE	017866P61	1	2	26/02/09					✓
	PARABOLIC ANTENNA MOUNTING DETAILS FOR CONCRETE MONOPOLE	017866P88	1	3	23/01/14					✓
	PANEL ANTENNA STRAPS MOUNTING TO MONOPOLE	017866P91	1	3	05/02/14					✓
E	EQUIPMENT ALARM CONFIGURATION	017866P123	1	1	30/06/08					✓
	ELECTRICAL SPECIFICATION	017866P160	1	3	07/12/12					✓
	MOBILE NETWORK SITE EARTHING STANDARD DETAILS AND CONNECTIONS GALVANISED STEEL BASED SYSTEM	017866P200	1	3	30/08/12					✓
	MOBILE NETWORK SITE EARTHING STANDARDS MOBILES LOW IMPACT SHELTER AND CONCRETE POLE DETAILS & CONNECTIONS GALVANISED STEEL BASED SYSTEM	017866P200	11	4	30/08/12					✓
	FEEDER EARTHING DETAILS	017866P201	1	2	14/04/15					✓
	FEEDER EARTHING DETAILS	017866P201	11	2	13/05/15					✓
	ICS SHELTER FIT OUT ROOM INTERNAL EARTHING DETAILS	017866P201	13	4	09/06/16					✓
	STANDARD RANGE SR2.5 COMMUNICATION POLES GENERAL ASSEMBLY	P94491	1	A	17/06/15			✓		
F										



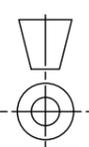
BYLONG NO. 3 TUNNEL EXIT

Node Manager Address ID: 252474

ADDRESS: ULAN No. 3 TUNNEL EXIT
UPPER BYLONG
NSW 2849

ORDER	DRWN	CHKD	AMENDMENT	EXAM	APPD	DATE	ISS
NA24240.01	JM	TL	FOR CONSTRUCTION - SP30098633W0002DOWN	RC	PG	18.11.22	1

MOBILE NETWORK SITE 252474	
BYLONG NO.3 TUNNEL EXIT	
DRAWING INDEX AND DOCUMENT CONTROL - SHEET 2 OF 2	
455 WOLLGYS RD, UPPER BYLONG, 2849	



SITE SPECIFIC NOTES

EQUIPMENT SHELTER

TYPE: EXISTING ARTC EQUIPMENT HUT
 SIZE (mm): 2600 (L) x 2600 (W) x 2730 (H)
 BASE TYPE: CONCRETE
 WALL TYPE: CONCRETE
 SUPPORT TYPE: CONCRETE SLAB
 COLOUR: MIST GREEN

ANTENNAS

COLOUR: NATURAL PRODUCT COLOUR.

ANTENNA ACCESS

TELSTRA: BY CHEERY PICKER.
 OTHERS: N/A

FEEDER CABLE LADDER

TYPE: NEMA 20B
 SIZE: AS SHOWN ON DRAWING
 COLOUR: GALVANISED FINISH

POWER SUPPLY

EXISTING AC SUPPLY IS 63A/1P TAKEN FROM EXISTING POWER SUPPLY.

SITE ACCESS

SITE TO BE ACCESSED FROM UPPER BYLONG ROAD, TURN LEFT (HEADING SOUTH FROM MUDGEE) TO EXISTING ROAD, DRIVE APPROX. 4.7km TO THE END OF ROAD THEN THROUGH EXISTING UNSEALED ACCESS TRACK TO SITE (APPROX. 1.6km). REFER SHEET S1

STRUCTURE

TYPE: TELSTRA FACILITIES POLE
 MODEL: ROCLA SR2.5-H30
 SIZE A: Ø540mm
 SIZE A: Ø990mm
 HEIGHT: 30.0m
 COLOUR: CONCRETE
 REFER TO DRG. P94491, T2

EARTHING DETAIL

1. EXISTING SURGE ARRESTER IS BONDED TO FEB VIA 16mm² G/Y INSULATED CABLE. MAX DISTANCE FROM FEB 1m. IT IS INSTALLED 300mm FROM THE FEEDER WINDOW AND IS ISOLATED FROM ALL INTERNAL EARTHED STEEL, EQUIPMENT AND CABLING.
 2. INSTALLED A 35mm² G/Y INSULATED CABLE FROM GPS ANTENNA TO THE FEB.

SITE SIGNAGE

ALL EME SIGNAGE IS REFERENCED ON DRAWINGS S1-7, S1-8, S1-9, S1-10, S3 & S3-2.
 REFER DOCUMENTS 005486A04, 005486A05 & 005486A10 FOR DETAILS.

#2 EME TELSTRA #2 SIGN AND TELSTRA IBC FEEDER IDENTIFICATION TAG (S/I 187/994)
 PROPOSED EME SIGN AND PROPOSED TELSTRA IBC FEEDER IDENTIFICATION TAG (S/I 187/994)
 ALTERNATIVE EVERY 5m ALONG THE LEAKY FEEDER

#2 EME TELSTRA #2 SIGN
 PROPOSED EME SIGN FIXED TO REAR OF TELSTRA ANTENNA A3 (1 OFF)

#2 EME TELSTRA #2 SIGN
 PROPOSED EME SIGN FIXED TO REAR OF PROPOSED TELSTRA PANEL ANTENNAS (2 OFF A1 & A4)

#4 EME TELSTRA #4 SIGN
 PROPOSED EME SIGN TO BE SECURED AT 2.0m AGL TO MONOPOLE

#6 EME TELSTRA #6 SIGN
 EXISTING EME SIGN SECURED TO MONOPOLE TO BE REMOVED

#13 EME TELSTRA #13 SIGN
 PROPOSED EME SIGN TO BE SECURED TO TELSTRA SHELTER DOOR STAMPED WITH RFNSA ID (RFNSA No. 2849001) TO REPLACE EXISTING

#15 EME TELSTRA #15 SIGN
 PROPOSED EME SIGN AT 4.5m AGL ON THE START AND END OF THE TUNNEL WALL

GENERAL NOTES:

- ALL DIMENSIONS ARE IN MILLIMETRES.
- BIRD PROOFING - CABLES AND ALL ACCESS POINTS ON THE STRUCTURE ARE BIRD PROOFED IN ACCORDANCE WITH THE METHODS SPECIFIED IN DOCUMENT NO. 003615 EXTERNAL PLANT STANDARDS FOR MOBILE BASE STATIONS, SECTION 6.3.3.
- 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. RAIL SPECIFIC SERVICE SEARCHES USING QUALIFIED RAIL SERVICE LOCATOR TO BE CONDUCTED BEFORE COMMENCEMENT OF FIBRE WORKS.
- FEEDER CONNECTION DETAILS, ELECTRICAL AND MECHANICAL TILTS ARE OBTAINED FROM CANRAD REPORTS.
- CONSTRUCTORS ARE AWARE OF TELSTRA DOCUMENT 007338-C8-11 AND IN PARTICULAR CLAUSE 7.3 & 10.3 WHICH DESCRIBES REQUIREMENTS PERSONNEL UNDERTAKE IN RESPECT TO ASBESTOS MANAGEMENT AT TELSTRA FACILITIES.

SITE REFERENCE DETAILS

OCCUPIER	SITE NAME	SITE CODE
TELSTRA	BYLONG No. 3 TUNNEL EXIT	252474
ARTC (AUSTRALIAN RAIL TRACK CORPORATION)	BYLONG No. 3 TUNNEL EXIT	BYOQ
RFNSA SITE NUMBER -2849001 STRUCTURE OWNER - ARTC		

SERVICES LEGEND

- T — T — T — OPTICAL FIBRE ABOVE GROUND
- T - - - T - - - T - - - OPTICAL FIBRE BELOW GROUND
- E — E — ABOVE GROUND ELECTRICAL SUPPLY
- E - - - E - - - BELOW GROUND ELECTRICAL SUPPLY
- G — G — GAS SUPPLY BELOW GROUND
- HV — HV — HV — HIGH VOLTAGE ELECTRICAL SUPPLY
- W — W — W — W — W — WATER SUPPLY ABOVE GROUND
- W - - - 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

- ① — EXISTING TELSTRA ANTENNA SECTOR
A1
- ① — PROPOSED TELSTRA ANTENNA SECTOR
A1

COMPLIANCE BOX

COMPLETED AS PER DESIGN

ALTERATIONS IN RED

NAME (PRINT) _____

SIGNATURE _____ DATE _____

FOR CONSTRUCTION

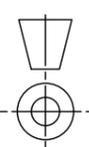
TO BE READ IN CONJUNCTION WITH SHEETS S1, S1-7, S1-8, S1-9, S1-10, S3, S3-1, S3-2, S3-3, S3-4, S3-5, S3-6 & S3-7.

ORDER	DRWN	CHKD	AMENDMENT	EXAM	APPD	DATE	ISS
NA06090.01	LD	AO	ISSUED FOR CONSTRUCTION	AO	MM	30.11.07	0
NA06090	JJA	D.C.	AS BUILT WCDMA850 - SP68945774	D.C.	JJA	10.04.08	1
NA24240.01	JM	TL	FOR CONSTRUCTION - SP30098633WO002DOWN	RC	PG	18.11.22	2



MOBILE NETWORK SITE 252474
BYLONG NO.3 TUNNEL EXIT
 SITE SPECIFIC NOTES - SHEET 1 OF 2
 455 WOLLGYS RD, UPPER BYLONG, 2849

DO NOT SCALE



EQUIPMENT NOTES - PROJECT NO. NA24239.01 & NA24240.01

ITEM	EQUIPMENT	EQUIPMENT DETAILS	EXISTING	PROPOSED	TOTAL	REFERENCE DWG
1	ERICSSON RADIO 4480 (B26/B28) LTE700 & WCDMA850	400x190x555mm (W,D,H) NATURAL PRODUCT COLOUR	0	2	2	SHEET E5
2	RFI SP0000-1124-11 CROSS BAND COMBINER	-	0	2	2	-
3	KAELUS TOWER MOUNTED AMPLIFIER	KA-1033 TWIN TMA	0	2	2	-
4	QUAD IM FILTER WCDMA850/NR850	QUAD IMF KA-6025 INSTALLED IN PATHFINDER RACKS	0	2	2	-
5	ERICSSON BASEBAND 6630	INSTALLED IN PATHFINDER RACK	0	1	1	SHEET E5
6	ERICSSON 6471 ROUTER	INSTALLED IN PATHFINDER RACK	0	1	1	SHEET E5
7	KEREM PDP A100	INSTALLED IN B&R 92A RACK	0	1	1	SHEET E1, E5
8	RADIO4480 LOW BAND DEPLOYMENT RACK	DECON RGL-091, 530x600x2200mm (W,D,H)	0	1	1	SHEET E1
9	ERICSSON RBS6601	483 x 271 x 177mm (W,D,H) COLOUR NATURAL	0	1	1	SHEET E5
10	DUW31	-	0	1	1	-
11	ERICSSON GPS ANTENNA LTE700	KRE 101 2082/1 OMNI Ø68 x 96mm	0	1	1	SHEET E1
12	TAIT TU2000 UHF TEST UNIT	-	0	1	1	-
13	TAIT TB9460 UHF BASE STATION	-	0	1	1	SHEET E5
14	CYBERTECH 2255X ROUTER	-	0	1	1	SHEET E5
15	VERTIV SP33 BATTERY STRINGS	FXH190-12S RESERVE	0	9	9	SHEET E4
16	48V/12V DC-DC CONVERTER	ENATEL CM612-48	0	1	1	-
17	VERTIV SP33	-	1	1	2	-
18	VERTIV SP33 RECTIFIERS	-	3	3	6	-
19	VERTIV SP33 DC/DC 48/24	-	2	0	2	-
20	30dB COUPLER	C-30-UW-43-Ai6 COUPLER	0	2	2	-
21	6dB COUPLER	C-6-TCPUSEW-43Ai6	0	1	1	-
22	EXTERNAL ENCLOSURE	B&R NI04032	0	3	3	-
23	WALL JACKET - DC/DC	ACM-1	0	1	1	-
24	RFS LCF78-50JA FEEDERS (LTE700)	COAXIAL CABLE 37m WITH 1.5m SCF12-50J AT EACH END	0	5	5	-

COMPLIANCE BOX

COMPLETED AS PER DESIGN

ALTERATIONS IN RED

NAME (PRINT) _____

SIGNATURE _____ DATE _____

SITE DESIGN BRIEF NA24240.01 ISSUE 3 DATED 09/12/2022
 SITE DESIGN BRIEF NA24239.01 ISSUE 2 DATED 12/08/2022

FOR CONSTRUCTION

TO BE READ IN CONJUNCTION WITH SHEETS S1, S1-7, S1-8, S1-9, S1-10, S3, S3-1, S3-2, S3-3, S3-4, S3-5, S3-6 & S3-7.

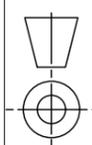
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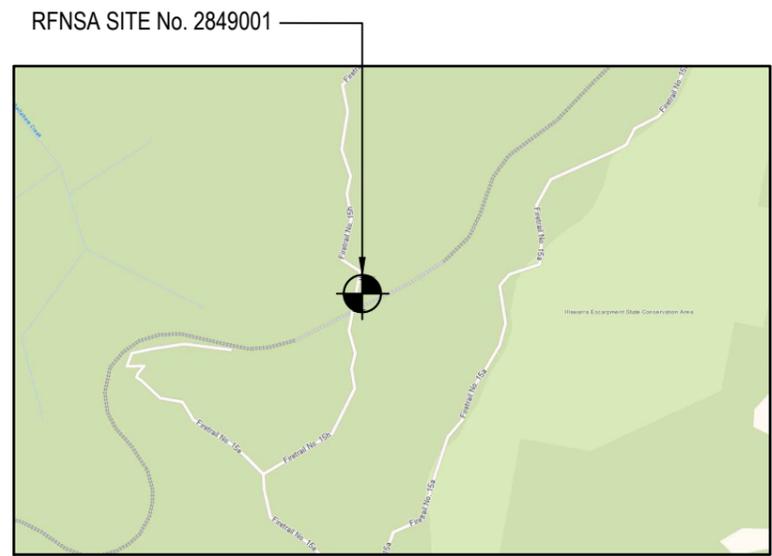
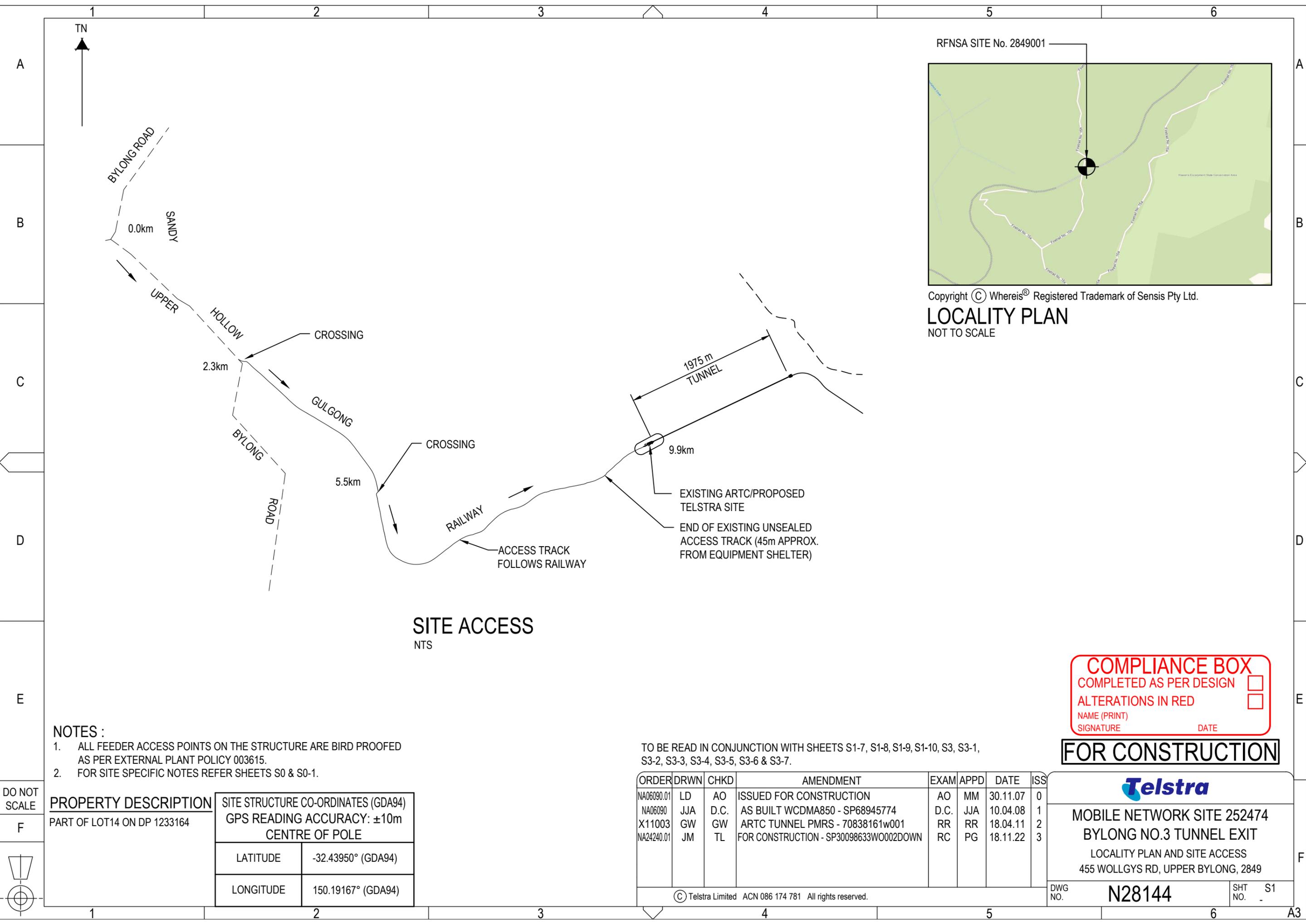


MOBILE NETWORK SITE 252474
BYLONG NO.3 TUNNEL EXIT
 SITE SPECIFIC NOTES - SHEET 2 OF 2
 455 WOLLGYS RD, UPPER BYLONG, 2849

DO NOT SCALE

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RFNSA SITE No. 2849001
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LOCALITY PLAN
 NOT TO SCALE

SITE ACCESS
 NTS

- NOTES :**
- ALL FEEDER ACCESS POINTS ON THE STRUCTURE ARE BIRD PROOFED AS PER EXTERNAL PLANT POLICY 003615.
 - FOR SITE SPECIFIC NOTES REFER SHEETS S0 & S0-1.

TO BE READ IN CONJUNCTION WITH SHEETS S1-7, S1-8, S1-9, S1-10, S3, S3-1, S3-2, S3-3, S3-4, S3-5, S3-6 & S3-7.

COMPLIANCE BOX

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NAME (PRINT) _____

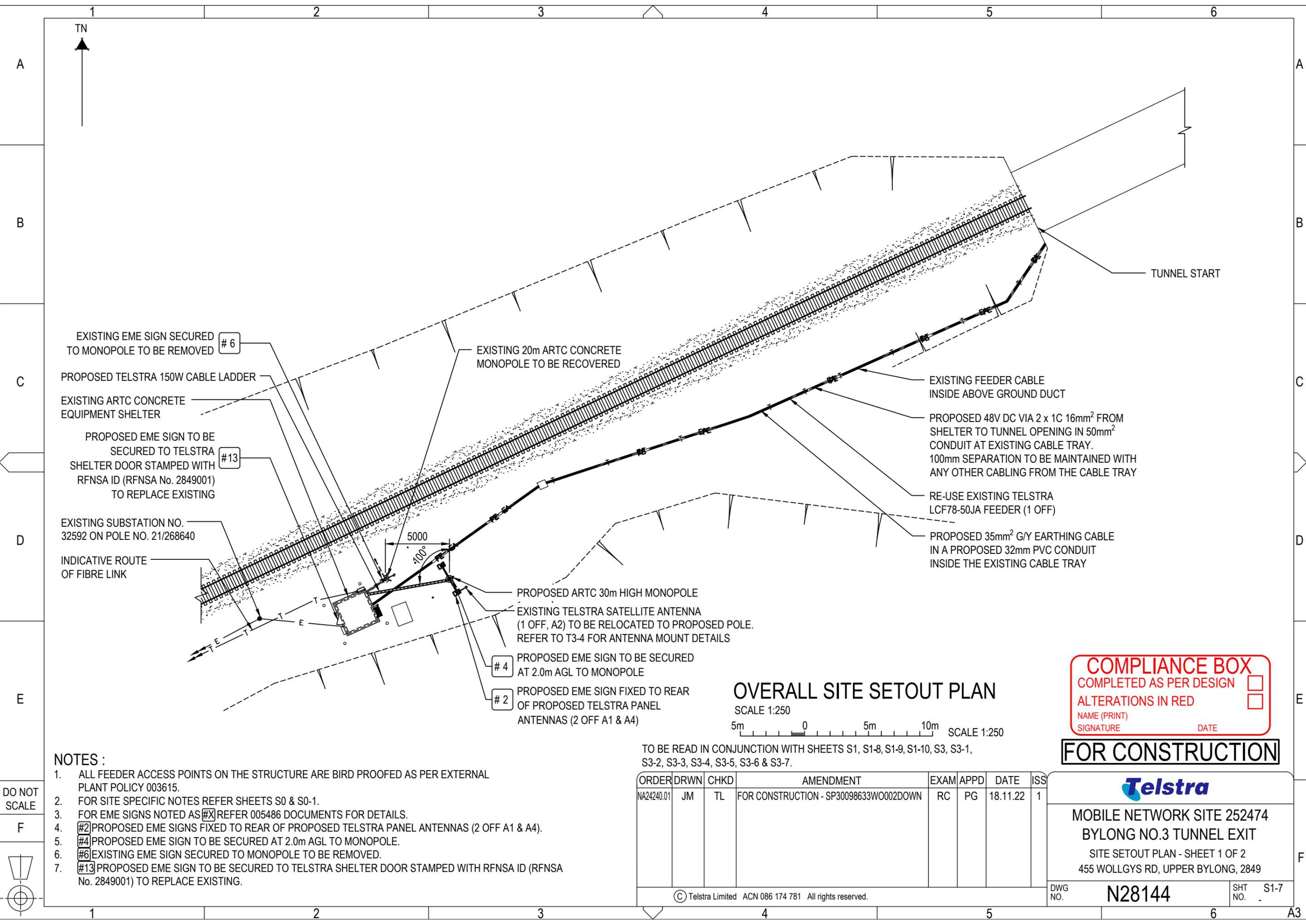
SIGNATURE _____ DATE _____

FOR CONSTRUCTION

DO NOT SCALE	PROPERTY DESCRIPTION	PART OF LOT14 ON DP 1233164	
	SITE STRUCTURE CO-ORDINATES (GDA94)	GPS READING ACCURACY: ±10m CENTRE OF POLE	
	LATITUDE	-32.43950° (GDA94)	
	LONGITUDE	150.19167° (GDA94)	

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X11003	GW	GW	ARTC TUNNEL PMRS - 70838161w001	RR	RR	18.04.11	2
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 LOCALITY PLAN AND SITE ACCESS
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TUNNEL START

EXISTING EME SIGN SECURED TO MONOPOLE TO BE REMOVED #6

PROPOSED TELSTRA 150W CABLE LADDER

EXISTING ARTC CONCRETE EQUIPMENT SHELTER

PROPOSED EME SIGN TO BE SECURED TO TELSTRA SHELTER DOOR STAMPED WITH RFNSA ID (RFNSA No. 2849001) TO REPLACE EXISTING #13

EXISTING SUBSTATION NO. 32592 ON POLE NO. 21/268640

INDICATIVE ROUTE OF FIBRE LINK

EXISTING 20m ARTC CONCRETE MONOPOLE TO BE RECOVERED

EXISTING FEEDER CABLE INSIDE ABOVE GROUND DUCT

PROPOSED 48V DC VIA 2 x 1C 16mm² FROM SHELTER TO TUNNEL OPENING IN 50mm² CONDUIT AT EXISTING CABLE TRAY. 100mm SEPARATION TO BE MAINTAINED WITH ANY OTHER CABLING FROM THE CABLE TRAY

RE-USE EXISTING TELSTRA LCF78-50JA FEEDER (1 OFF)

PROPOSED 35mm² G/Y EARTHING CABLE IN A PROPOSED 32mm PVC CONDUIT INSIDE THE EXISTING CABLE TRAY

PROPOSED ARTC 30m HIGH MONOPOLE

EXISTING TELSTRA SATELLITE ANTENNA (1 OFF, A2) TO BE RELOCATED TO PROPOSED POLE. REFER TO T3-4 FOR ANTENNA MOUNT DETAILS

#4 PROPOSED EME SIGN TO BE SECURED AT 2.0m AGL TO MONOPOLE

#2 PROPOSED EME SIGN FIXED TO REAR OF PROPOSED TELSTRA PANEL ANTENNAS (2 OFF A1 & A4)

OVERALL SITE SETOUT PLAN

SCALE 1:250
5m 0 5m 10m SCALE 1:250

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

FOR CONSTRUCTION

NOTES :

- ALL FEEDER ACCESS POINTS ON THE STRUCTURE ARE BIRD PROOFED AS PER EXTERNAL PLANT POLICY 003615.
- FOR SITE SPECIFIC NOTES REFER SHEETS S0 & S0-1.
- FOR EME SIGNS NOTED AS #X REFER 005486 DOCUMENTS FOR DETAILS.
- #2] PROPOSED EME SIGNS FIXED TO REAR OF PROPOSED TELSTRA PANEL ANTENNAS (2 OFF A1 & A4).
- #4] PROPOSED EME SIGN TO BE SECURED AT 2.0m AGL TO MONOPOLE.
- #6] EXISTING EME SIGN SECURED TO MONOPOLE TO BE REMOVED.
- #13] PROPOSED EME SIGN TO BE SECURED TO TELSTRA SHELTER DOOR STAMPED WITH RFNSA ID (RFNSA No. 2849001) TO REPLACE EXISTING.

TO BE READ IN CONJUNCTION WITH SHEETS S1, S1-8, S1-9, S1-10, S3, S3-1, S3-2, S3-3, S3-4, S3-5, S3-6 & S3-7.

ORDER	DRWN	CHKD	AMENDMENT	EXAM	APPD	DATE	ISS
NA24240.01	JM	TL	FOR CONSTRUCTION - SP30098633W0002DOWN	RC	PG	18.11.22	1



MOBILE NETWORK SITE 252474
BYLONG NO.3 TUNNEL EXIT
 SITE SETOUT PLAN - SHEET 1 OF 2
 455 WOLLGYS RD, UPPER BYLONG, 2849

DWG NO.

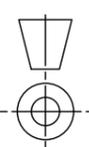
N28144

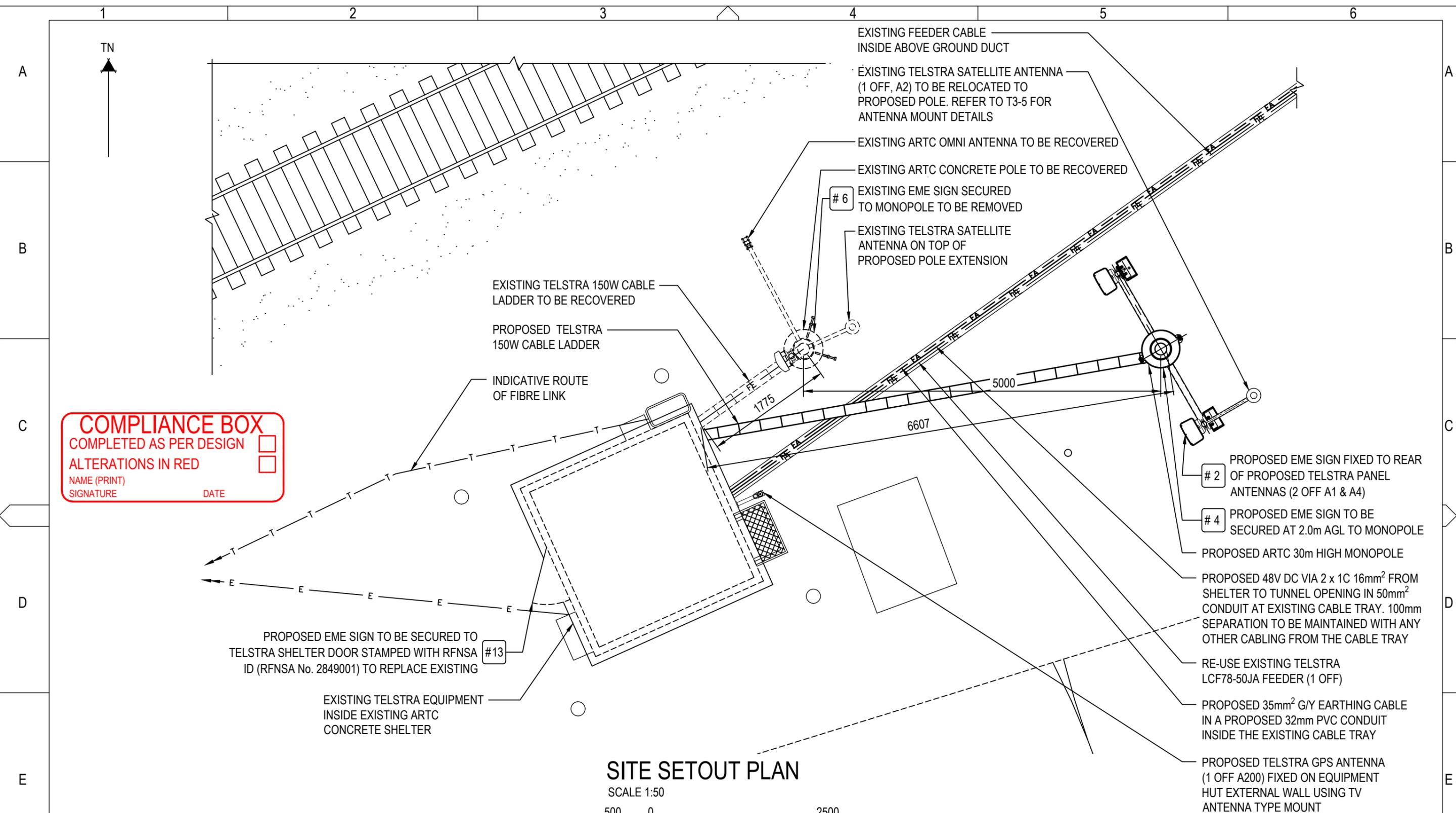
SHT NO.

S1-7

DO NOT SCALE

F





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

SITE SETOUT PLAN

SCALE 1:50
 500 0 2500 SCALE 1:50

TO BE READ IN CONJUNCTION WITH SHEETS S1, S1-7, S1-9, S1-10, S3, S3-1, S3-2, S3-3, S3-4, S3-5, S3-6 & S3-7.

- NOTES :**
- ALL FEEDER ACCESS POINTS ON THE STRUCTURE ARE BIRD PROOFED AS PER EXTERNAL PLANT POLICY 003615.
 - FOR SITE SPECIFIC NOTES REFER SHEETS S0 & S0-1.
 - FOR EME SIGNS NOTED AS #X REFER 005486 DOCUMENTS FOR DETAILS.
 - #2 PROPOSED EME SIGNS FIXED TO REAR OF PROPOSED TELSTRA PANEL ANTENNAS (2 OFF A1 & A4).
 - #4 PROPOSED EME SIGN TO BE SECURED AT 2.0m AGL TO MONOPOLE.
 - #6 EXISTING EME SIGN SECURED TO MONOPOLE TO BE REMOVED.
 - #13 PROPOSED EME SIGN TO BE SECURED TO TELSTRA SHELTER DOOR STAMPED WITH RFNSA ID (RFNSA No. 2849001) TO REPLACE EXISTING.

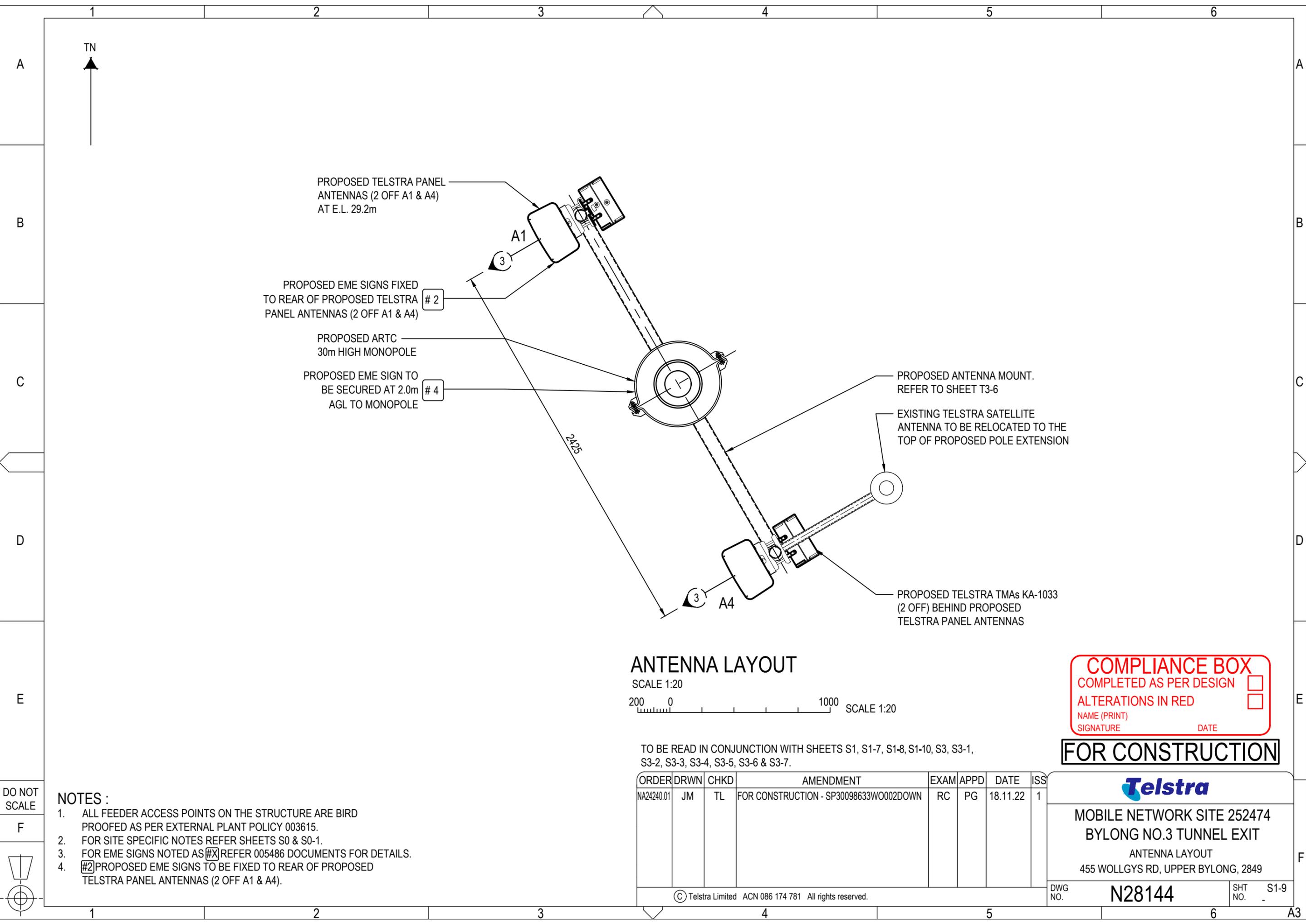
ORDER	DRWN	CHKD	AMENDMENT	EXAM	APPD	DATE	ISS
NA24240.01	JM	TL	FOR CONSTRUCTION - SP30098633W0002DOWN	RC	PG	18.11.22	1

FOR CONSTRUCTION



MOBILE NETWORK SITE 252474
BYLONG NO.3 TUNNEL EXIT
 SITE SETOUT PLAN - SHEET 2 OF 2
 455 WOLLGYS RD, UPPER BYLONG, 2849

DWG NO. **N28144** SHT NO. S1-8



ANTENNA LAYOUT

SCALE 1:20
 200 0 1000 SCALE 1:20

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

FOR CONSTRUCTION

TO BE READ IN CONJUNCTION WITH SHEETS S1, S1-7, S1-8, S1-10, S3, S3-1, S3-2, S3-3, S3-4, S3-5, S3-6 & S3-7.

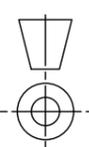
ORDER	DRWN	CHKD	AMENDMENT	EXAM	APPD	DATE	ISS
NA24240.01	JM	TL	FOR CONSTRUCTION - SP30098633WO002DOWN	RC	PG	18.11.22	1

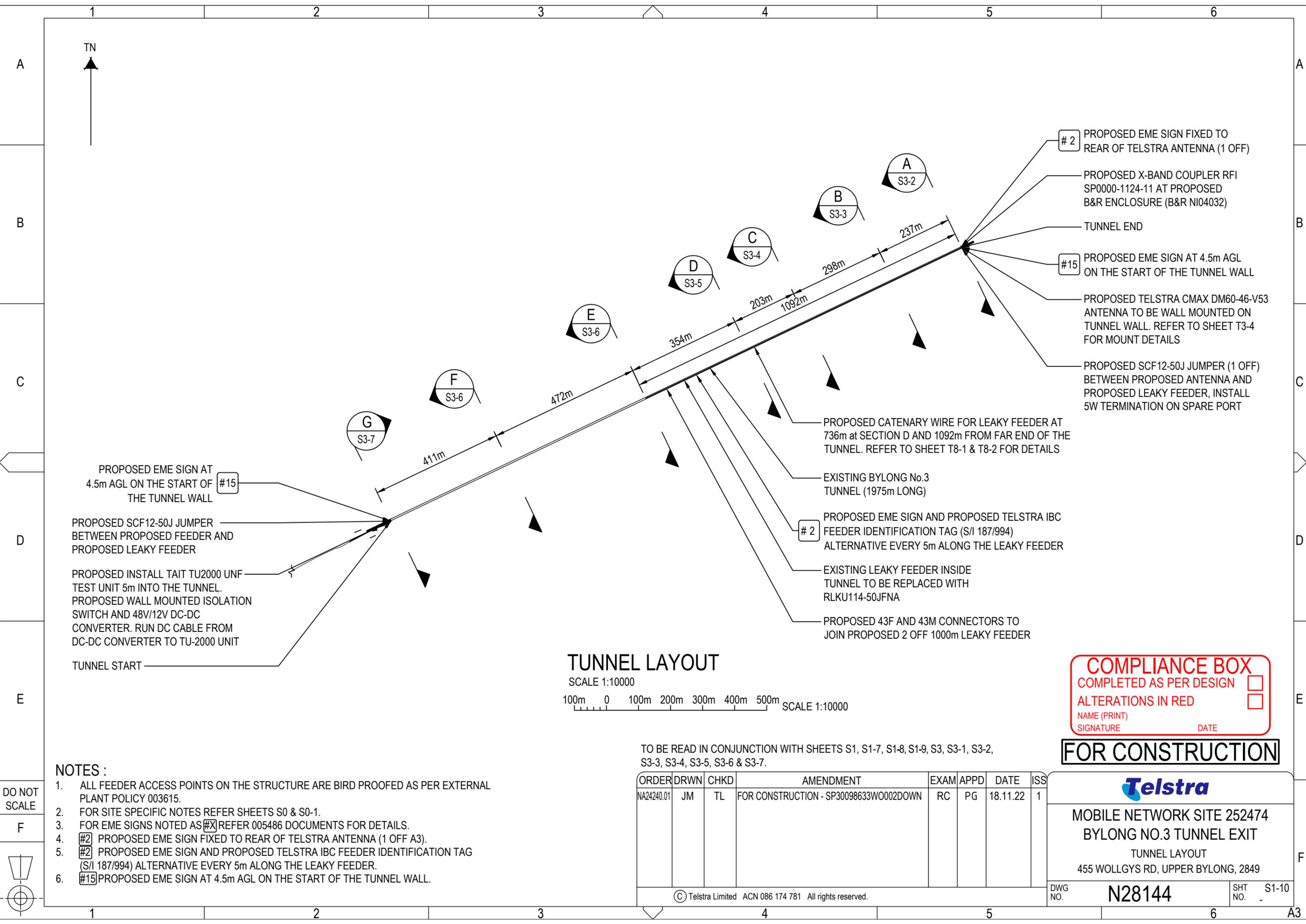
- NOTES :**
- ALL FEEDER ACCESS POINTS ON THE STRUCTURE ARE BIRD PROOFED AS PER EXTERNAL PLANT POLICY 003615.
 - FOR SITE SPECIFIC NOTES REFER SHEETS S0 & S0-1.
 - FOR EME SIGNS NOTED AS #X REFER 005486 DOCUMENTS FOR DETAILS.
 - #2 PROPOSED EME SIGNS TO BE FIXED TO REAR OF PROPOSED TELSTRA PANEL ANTENNAS (2 OFF A1 & A4).

Telstra

MOBILE NETWORK SITE 252474
 BYLONG NO.3 TUNNEL EXIT
 ANTENNA LAYOUT
 455 WOLLGYS RD, UPPER BYLONG, 2849

DO NOT SCALE





TUNNEL LAYOUT

SCALE 1:10000
 100m 0 100m 200m 300m 400m 500m SCALE 1:10000

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

FOR CONSTRUCTION

- NOTES :**
- ALL FEEDER ACCESS POINTS ON THE STRUCTURE ARE BIRD PROOFED AS PER EXTERNAL PLANT POLICY 003615.
 - FOR SITE SPECIFIC NOTES REFER SHEETS S0 & S0-1.
 - FOR EME SIGNS NOTED AS #X REFER 005486 DOCUMENTS FOR DETAILS.
 - #2 PROPOSED EME SIGN FIXED TO REAR OF TELSTRA ANTENNA (1 OFF A3).
 - #2 PROPOSED EME SIGN AND PROPOSED TELSTRA IBC FEEDER IDENTIFICATION TAG (S/I 187/994) ALTERNATIVE EVERY 5m ALONG THE LEAKY FEEDER.
 - #15 PROPOSED EME SIGN AT 4.5m AGL ON THE START OF THE TUNNEL WALL.

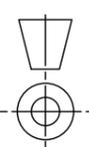
TO BE READ IN CONJUNCTION WITH SHEETS S1, S1-7, S1-8, S1-9, S3, S3-1, S3-2, S3-3, S3-4, S3-5, S3-6 & S3-7.

ORDER	DRWN	CHKD	AMENDMENT	EXAM	APPD	DATE	ISS
NA24240.01	JM	TL	FOR CONSTRUCTION - SP30098633WO002DOWN	RC	PG	18.11.22	1

Telstra

MOBILE NETWORK SITE 252474
 BYLONG NO.3 TUNNEL EXIT
 TUNNEL LAYOUT
 455 WOLLGYS RD, UPPER BYLONG, 2849

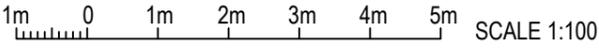
DO NOT SCALE



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

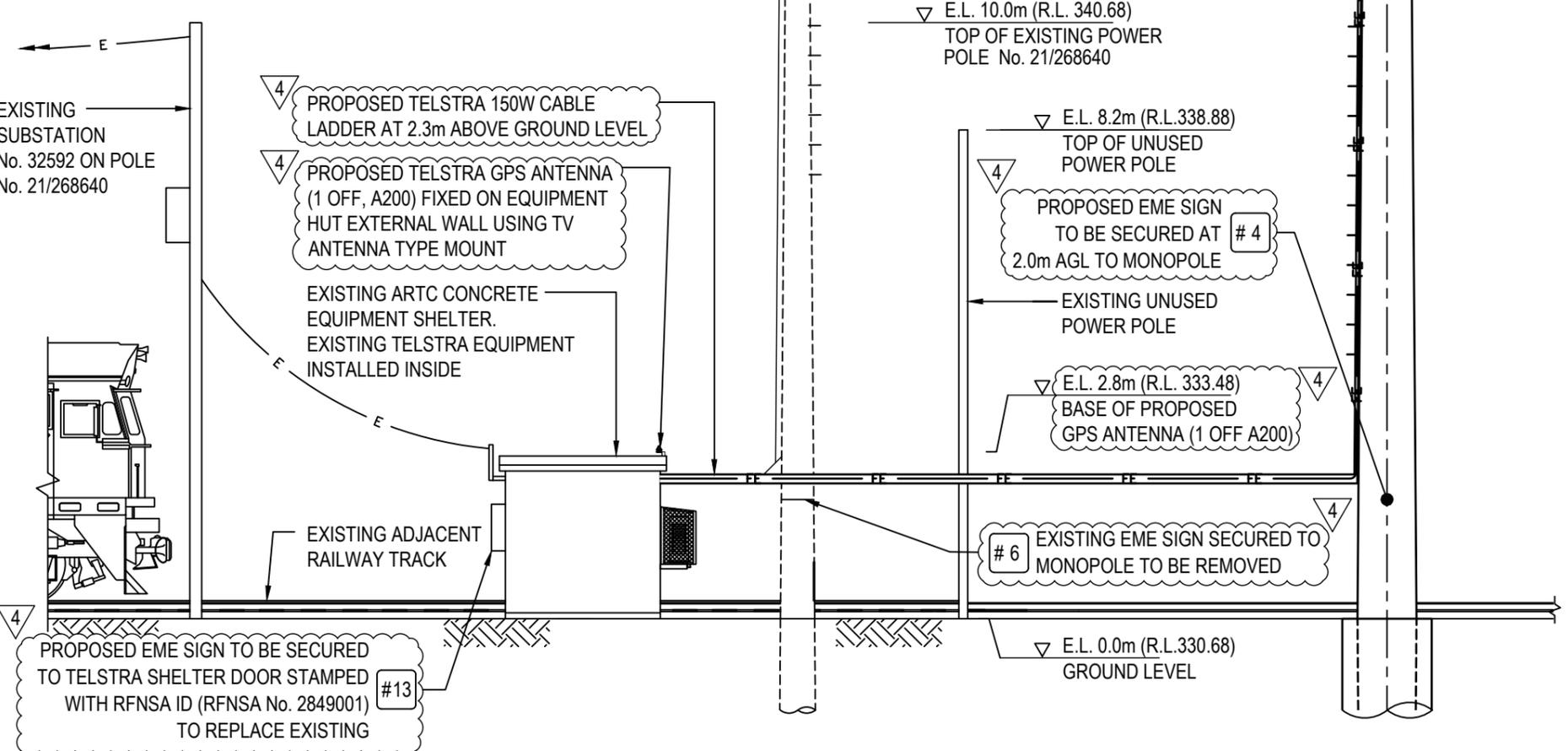
SOUTH ELEVATION

SCALE 1:100



NOTES:

- ALL FEEDER ACCESS POINTS ON THE STRUCTURE ARE BIRD PROOFED AS PER EXTERNAL PLANT POLICY 003615.
- FOR SITE SPECIFIC NOTES REFER SHEETS S0 & S0-1.
- FOR EME SIGNS NOTED AS #X REFER 005486 DOCUMENTS FOR DETAILS.
- #2 PROPOSED EME SIGNS TO BE FIXED TO REAR OF PROPOSED TELSTRA PANEL ANTENNAS (2 OFF A1 & A4).
- #4 PROPOSED EME SIGN TO BE SECURED AT 2.0m AGL TO MONOPOLE.
- #6 EXISTING EME SIGN SECURED TO MONOPOLE TO BE REMOVED.
- #13 PROPOSED EME SIGN TO BE SECURED TO TELSTRA SHELTER DOOR STAMPED WITH RFNSA ID (RFNSA No. 2849001) TO REPLACE EXISTING.



FOR CONSTRUCTION

TO BE READ IN CONJUNCTION WITH SHEETS S1, S1-7, S1-8, S1-9, S1-10, S3-1, S3-2, S3-3, S3-4, S3-5, S3-6 & S3-7.

ORDER	DRAWN	CHKD	AMENDMENT	EXAM	APPD	DATE	ISS
NA06090	JJA	DC	AS BUILT WCDMA850 - SP68945774	DXD	JJA	10.04.07	1
	JT	HD	REVISED FOR MERC'S COMPLIANCE	HD	HD	14.05.09	2
X11003	GW	GW	ADJ HEIGHT A4 - ARTC TUNNEL PMRS - 70838161w001	RR	RR	18.04.11	3
NA24240.01	JM	TL	FOR CONSTRUCTION - SP30098633W0002DOWN	RC	PG	18.11.22	4

Telstra

MOBILE NETWORK SITE 252474
BYLONG NO.3 TUNNEL EXIT
 SOUTH ELEVATION
 455 WOLLGYS RD, UPPER BYLONG, 2849

DWG NO. **N28144** SHT NO. S3

DO NOT SCALE DIMENSIONS IN



TELSTRA ANTENNA CONFIGURATION TABLE					
ANTENNA No	ANTENNA TYPE & SIZE H x W x D	ANTENNA ACTION REQUIRED	ANTENNA HEIGHT C/L A.G.L.	ANTENNA BEARING (x°T)	SECTOR NO. & TECHNOLOGY
A1	ARGUS RPX310B-T2H PANEL ANTENNA 2533 x 350 x 208mm	INSTALL	29.2m	240°	S3: LTE700/NR850/WCDMA850
A2	SATELLITE RST910A (Ø88.9 x 120mm H)	RELOCATE	30.3m	0°	IRDIDIUM
A3 (GENERIC DAS ANTENNA)	CMAX-DM60-43-V53 ANTENNA 299.7 x 299.7 x 124.5mm	INSTALL	10.0m	80°	-
A4	ARGUS RPX310B-T2H PANEL ANTENNA 2533 x 350 x 208mm	INSTALL	29.2m	240°	S3: LTE700/NR850
A1 (OLD)	ARGUS CPX310R PANEL 2630 x 300 x 110mm	RECOVER	26.3m	240°	S3: WCDMA850
A3 (OLD)	ANDREW RXL-1AX RADIATING FEEDER	REPLACE	10.0m	0°	WCDMA850 VIA LEAKY COAX
A200	ERICSSON KRE 101 2082/1 Ø68 x 96mm	INSTALL	2.8m (BASE OF GPS)	0°	-

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

FOR CONSTRUCTION

TO BE READ IN CONJUNCTION WITH SHEETS S1, S1-7, S1-8, S1-9, S1-10, S3, S3-2, S3-3, S3-4, S3-5, S3-6 & S3-7

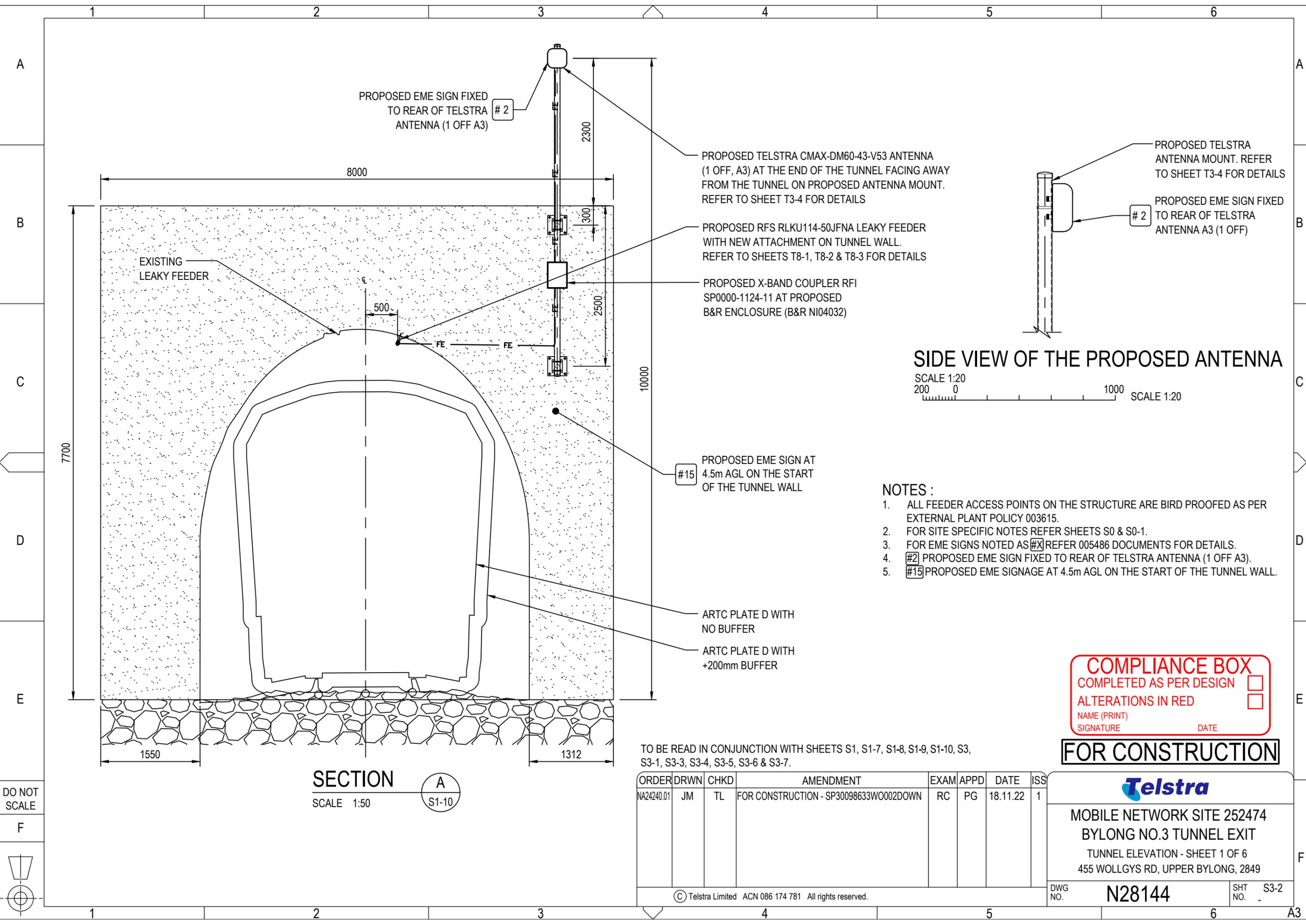
ORDER	DRWN	CHKD	AMENDMENT	EXAM	APPD	DATE	ISS
NA24240.01	JM	TL	FOR CONSTRUCTION - SP30098633W0002DOWN	RC	PG	18.11.22	1

Telstra

MOBILE NETWORK SITE 252474
 BYLONG NO.3 TUNNEL EXIT
 ANTENNA CONFIGURATION TABLE
 455 WOLLGYS RD, UPPER BYLONG, 2849

DO NOT SCALE





PROPOSED EME SIGN FIXED TO REAR OF TELSTRA ANTENNA (1 OFF A3) # 2

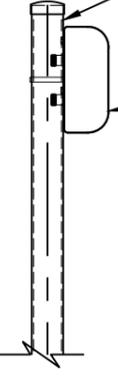
PROPOSED TELSTRA CMAX-DM60-43-V53 ANTENNA (1 OFF, A3) AT THE END OF THE TUNNEL FACING AWAY FROM THE TUNNEL ON PROPOSED ANTENNA MOUNT. REFER TO SHEET T3-4 FOR DETAILS

PROPOSED RFS RLKU114-50JFNA LEAKY FEEDER WITH NEW ATTACHMENT ON TUNNEL WALL. REFER TO SHEETS T8-1, T8-2 & T8-3 FOR DETAILS

PROPOSED X-BAND COUPLER RFI SP0000-1124-11 AT PROPOSED B&R ENCLOSURE (B&R NI04032)

PROPOSED TELSTRA ANTENNA MOUNT. REFER TO SHEET T3-4 FOR DETAILS

PROPOSED EME SIGN FIXED TO REAR OF TELSTRA ANTENNA A3 (1 OFF) # 2



SIDE VIEW OF THE PROPOSED ANTENNA

SCALE 1:20
200 0 1000 SCALE 1:20

#15 PROPOSED EME SIGN AT 4.5m AGL ON THE START OF THE TUNNEL WALL

ARTC PLATE D WITH NO BUFFER

ARTC PLATE D WITH +200mm BUFFER

NOTES :

1. ALL FEEDER ACCESS POINTS ON THE STRUCTURE ARE BIRD PROOFED AS PER EXTERNAL PLANT POLICY 003615.
2. FOR SITE SPECIFIC NOTES REFER SHEETS S0 & S0-1.
3. FOR EME SIGNS NOTED AS #X REFER 005486 DOCUMENTS FOR DETAILS.
4. #2 PROPOSED EME SIGN FIXED TO REAR OF TELSTRA ANTENNA (1 OFF A3).
5. #15 PROPOSED EME SIGNAGE AT 4.5m AGL ON THE START OF THE TUNNEL WALL.

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

FOR CONSTRUCTION

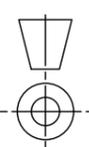
SECTION A
SCALE 1:50
S1-10

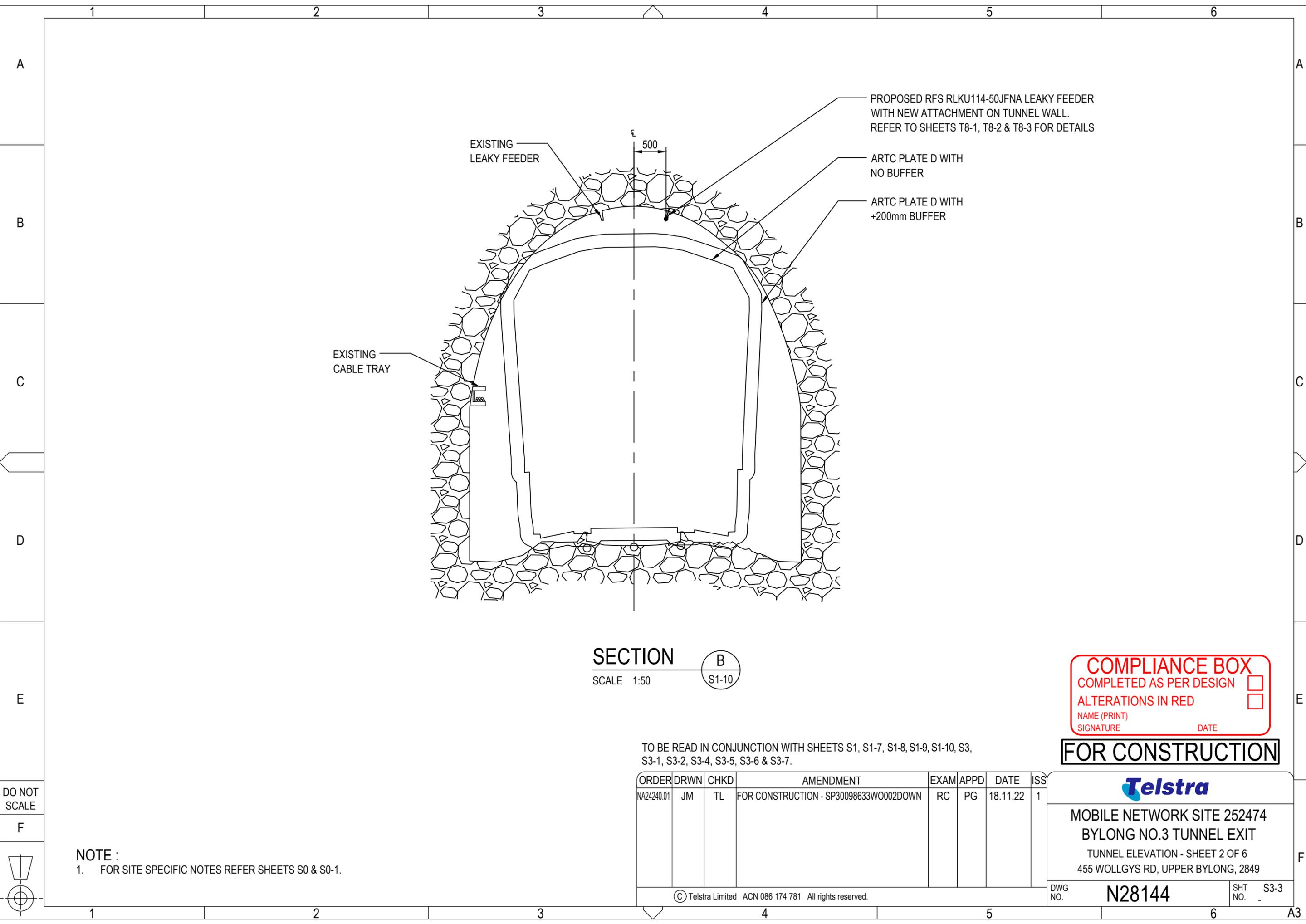
TO BE READ IN CONJUNCTION WITH SHEETS S1, S1-7, S1-8, S1-9, S1-10, S3, S3-1, S3-3, S3-4, S3-5, S3-6 & S3-7.

ORDER	DRWN	CHKD	AMENDMENT	EXAM	APPD	DATE	ISS
NA24240.01	JM	TL	FOR CONSTRUCTION - SP30098633WO002DOWN	RC	PG	18.11.22	1

Telstra
 MOBILE NETWORK SITE 252474
 BYLONG NO.3 TUNNEL EXIT
 TUNNEL ELEVATION - SHEET 1 OF 6
 455 WOLLGYS RD, UPPER BYLONG, 2849

DO NOT SCALE





SECTION B
 SCALE 1:50 S1-10

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

FOR CONSTRUCTION

TO BE READ IN CONJUNCTION WITH SHEETS S1, S1-7, S1-8, S1-9, S1-10, S3, S3-1, S3-2, S3-4, S3-5, S3-6 & S3-7.

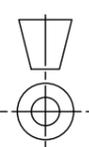
ORDER	DRWN	CHKD	AMENDMENT	EXAM	APPD	DATE	ISS
NA24240.01	JM	TL	FOR CONSTRUCTION - SP30098633WO002DOWN	RC	PG	18.11.22	1

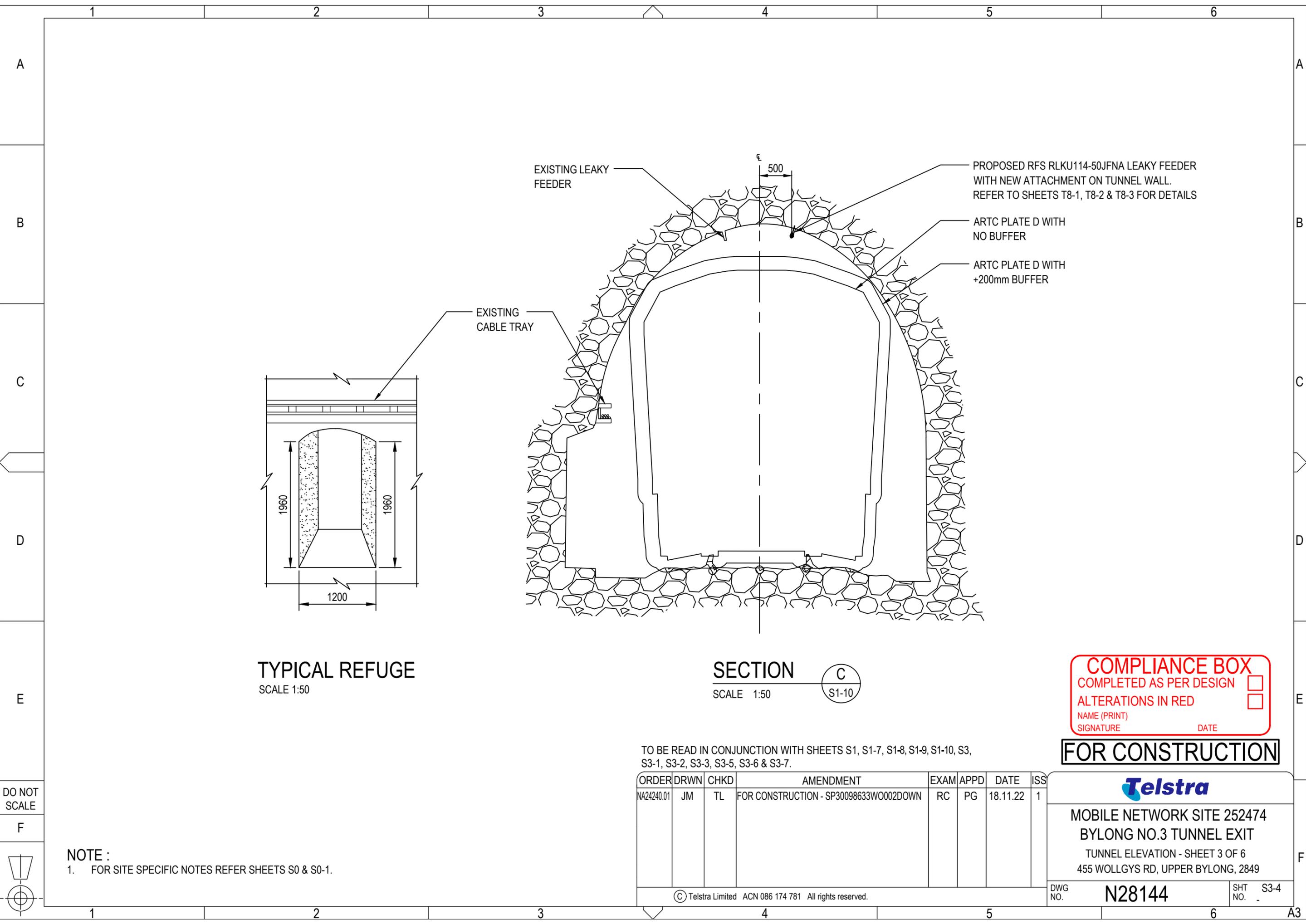
Telstra

MOBILE NETWORK SITE 252474
BYLONG NO.3 TUNNEL EXIT
 TUNNEL ELEVATION - SHEET 2 OF 6
 455 WOLLGYS RD, UPPER BYLONG, 2849

NOTE :
 1. FOR SITE SPECIFIC NOTES REFER SHEETS S0 & S0-1.

DO NOT SCALE





TYPICAL REFUGE
SCALE 1:50

SECTION C
SCALE 1:50

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

FOR CONSTRUCTION

TO BE READ IN CONJUNCTION WITH SHEETS S1, S1-7, S1-8, S1-9, S1-10, S3, S3-1, S3-2, S3-3, S3-5, S3-6 & S3-7.

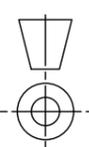
ORDER	DRWN	CHKD	AMENDMENT	EXAM	APPD	DATE	ISS
NA24240.01	JM	TL	FOR CONSTRUCTION - SP30098633WO002DOWN	RC	PG	18.11.22	1

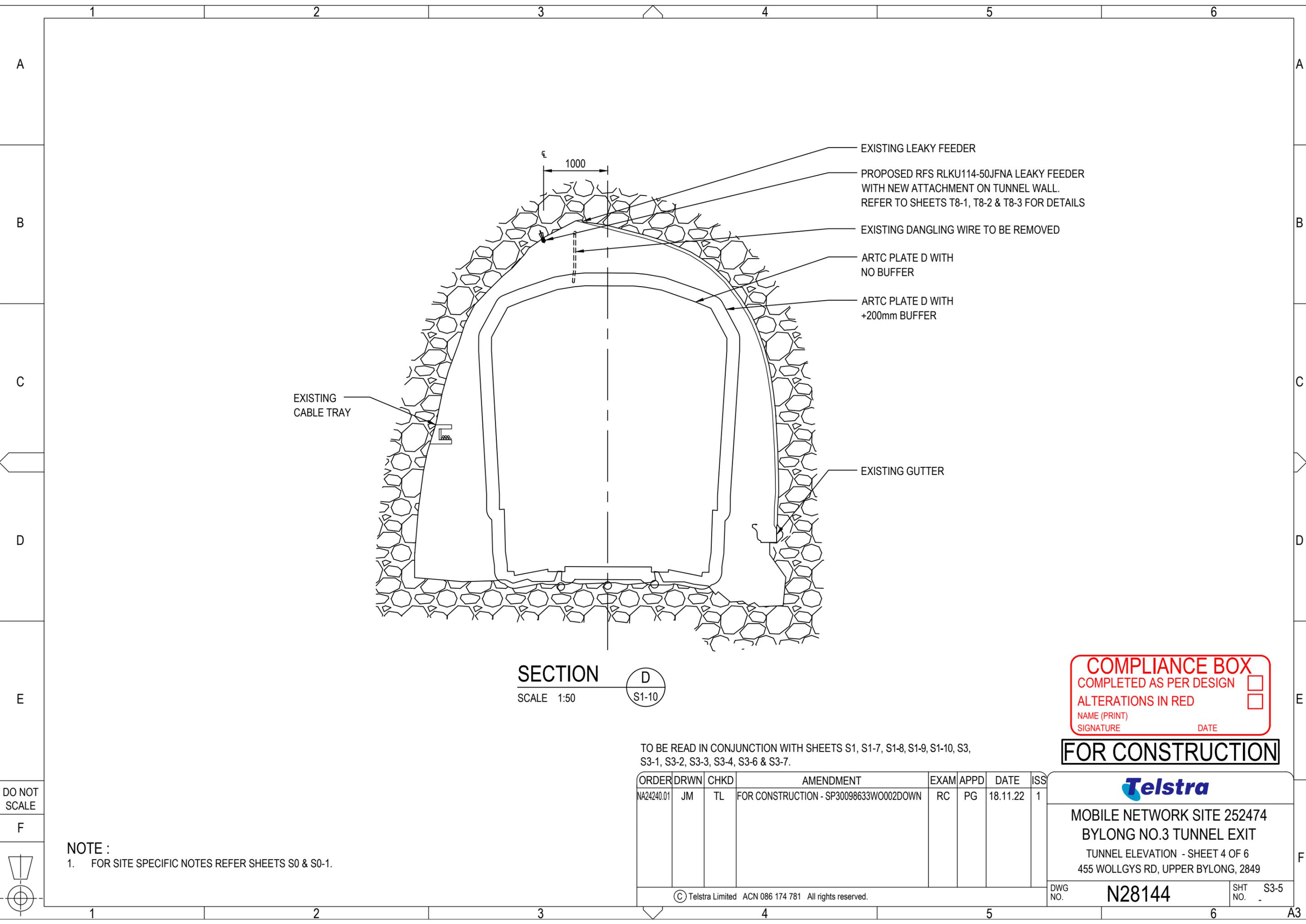
Telstra

MOBILE NETWORK SITE 252474
 BYLONG NO.3 TUNNEL EXIT
 TUNNEL ELEVATION - SHEET 3 OF 6
 455 WOLLGYS RD, UPPER BYLONG, 2849

NOTE :
 1. FOR SITE SPECIFIC NOTES REFER SHEETS S0 & S0-1.

DO NOT SCALE





SECTION D
SCALE 1:50

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

FOR CONSTRUCTION

TO BE READ IN CONJUNCTION WITH SHEETS S1, S1-7, S1-8, S1-9, S1-10, S3, S3-1, S3-2, S3-3, S3-4, S3-6 & S3-7.

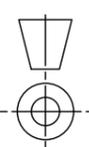
ORDER	DRWN	CHKD	AMENDMENT	EXAM	APPD	DATE	ISS
NA24240.01	JM	TL	FOR CONSTRUCTION - SP30098633WO002DOWN	RC	PG	18.11.22	1

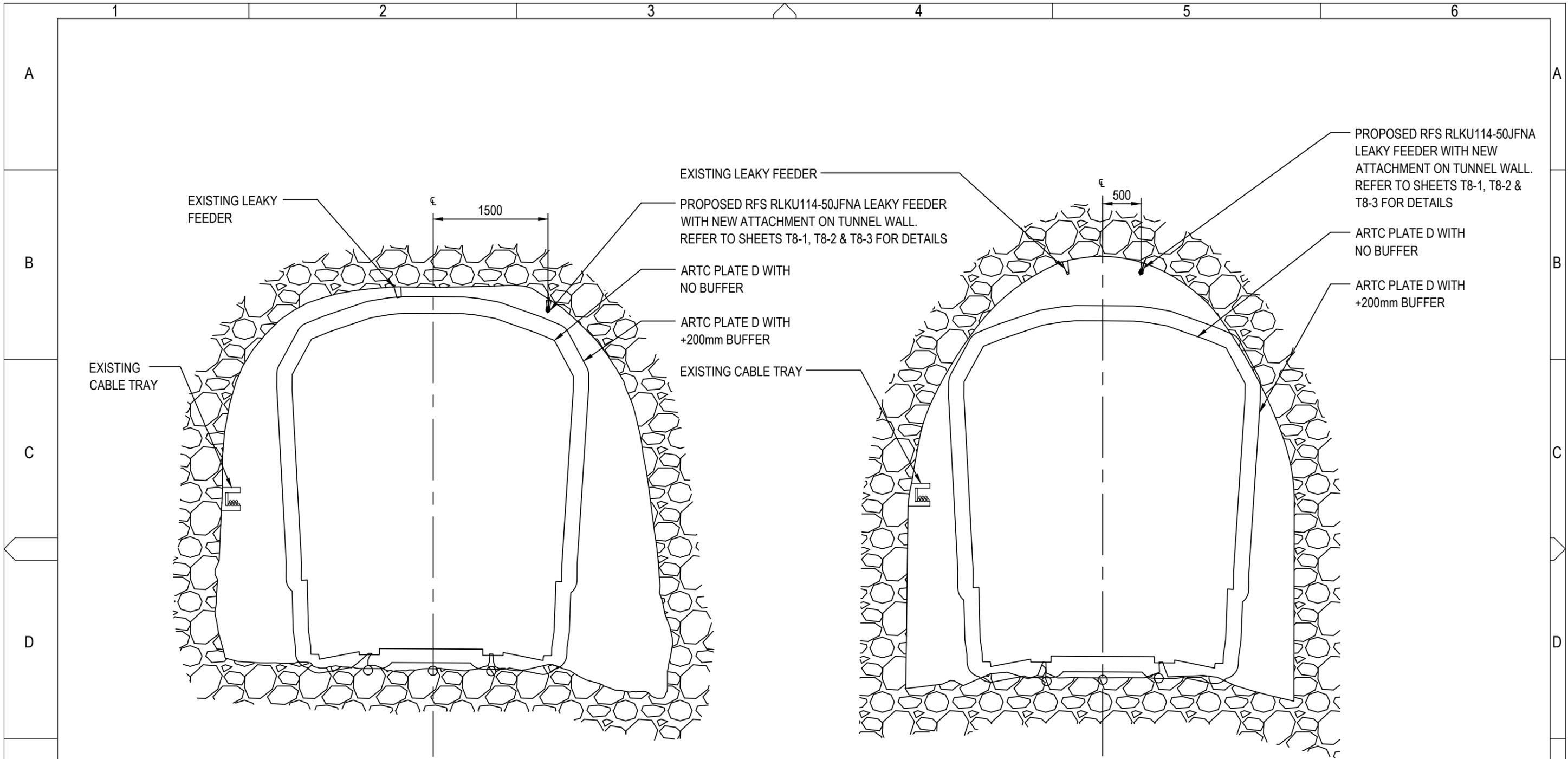
Telstra

MOBILE NETWORK SITE 252474
 BYLONG NO.3 TUNNEL EXIT
 TUNNEL ELEVATION - SHEET 4 OF 6
 455 WOLLGYS RD, UPPER BYLONG, 2849

NOTE :
 1. FOR SITE SPECIFIC NOTES REFER SHEETS S0 & S0-1.

DO NOT SCALE





SECTION E
SCALE 1:50

SECTION F
SCALE 1:50

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

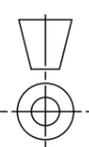
FOR CONSTRUCTION

TO BE READ IN CONJUNCTION WITH SHEETS S1, S1-7, S1-8, S1-9, S1-10, S3, S3-1, S3-2, S3-3, S3-4, S3-5 & S3-7.

ORDER	DRWN	CHKD	AMENDMENT	EXAM	APPD	DATE	ISS
NA24240.01	JM	TL	FOR CONSTRUCTION - SP30098633WO002DOWN	RC	PG	18.11.22	1

NOTE :
1. FOR SITE SPECIFIC NOTES REFER SHEETS S0 & S0-1.

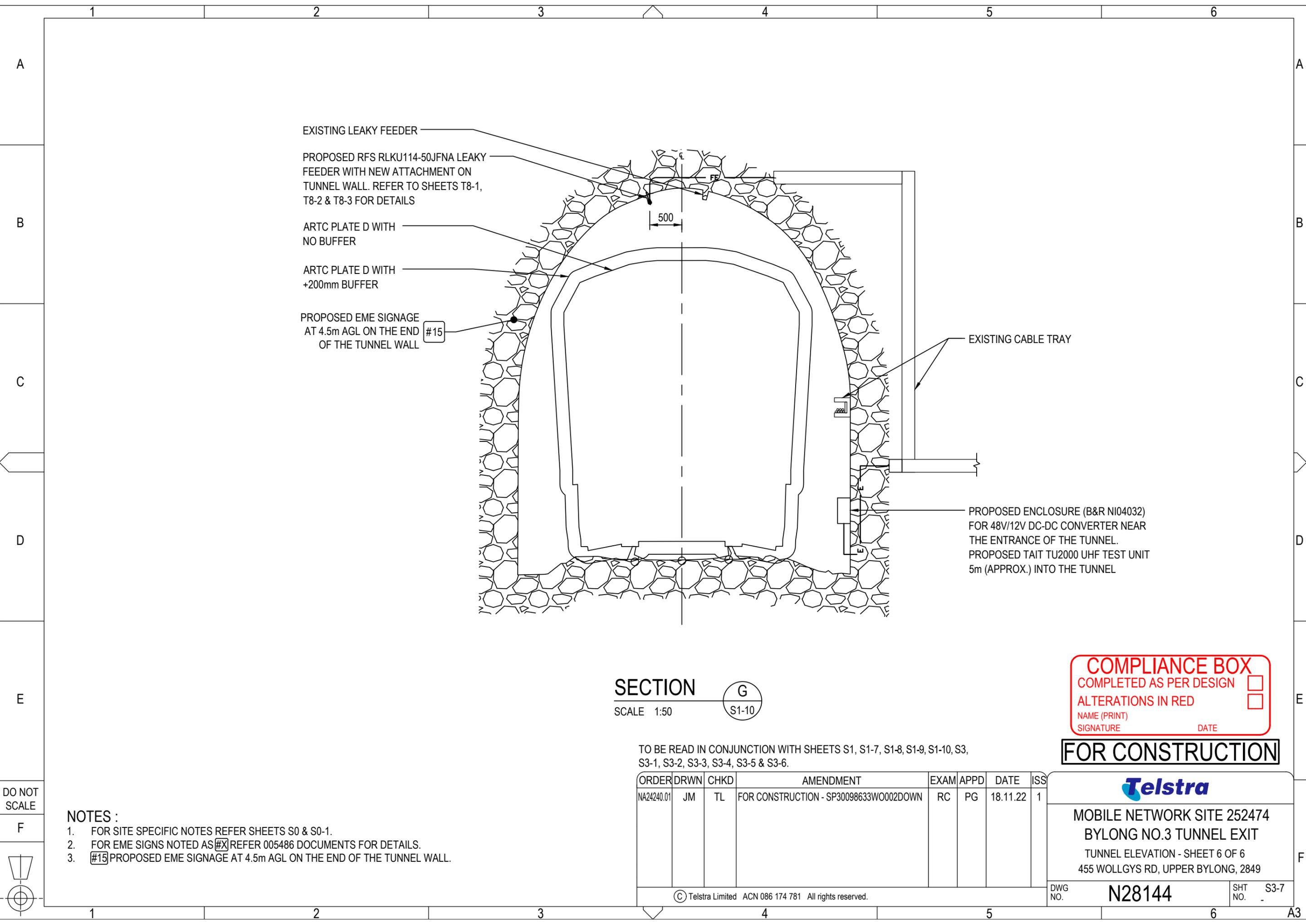
DO NOT SCALE



Telstra

MOBILE NETWORK SITE 252474
 BYLONG NO.3 TUNNEL EXIT
 TUNNEL ELEVATION - SHEET 5 OF 6
 455 WOLLGYS RD, UPPER BYLONG, 2849

DWG NO. **N28144** SHT NO. S3-6



EXISTING LEAKY FEEDER

PROPOSED RFS RLKU114-50JFNA LEAKY FEEDER WITH NEW ATTACHMENT ON TUNNEL WALL. REFER TO SHEETS T8-1, T8-2 & T8-3 FOR DETAILS

ARTC PLATE D WITH NO BUFFER

ARTC PLATE D WITH +200mm BUFFER

PROPOSED EME SIGNAGE AT 4.5m AGL ON THE END OF THE TUNNEL WALL #15

EXISTING CABLE TRAY

PROPOSED ENCLOSURE (B&R NI04032) FOR 48V/12V DC-DC CONVERTER NEAR THE ENTRANCE OF THE TUNNEL. PROPOSED TAIT TU2000 UHF TEST UNIT 5m (APPROX.) INTO THE TUNNEL

SECTION

G
S1-10

SCALE 1:50

TO BE READ IN CONJUNCTION WITH SHEETS S1, S1-7, S1-8, S1-9, S1-10, S3, S3-1, S3-2, S3-3, S3-4, S3-5 & S3-6.

ORDER	DRWN	CHKD	AMENDMENT	EXAM	APPD	DATE	ISS
NA24240.01	JM	TL	FOR CONSTRUCTION - SP30098633WO002DOWN	RC	PG	18.11.22	1

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

FOR CONSTRUCTION



MOBILE NETWORK SITE 252474
 BYLONG NO.3 TUNNEL EXIT
 TUNNEL ELEVATION - SHEET 6 OF 6
 455 WOLLGYS RD, UPPER BYLONG, 2849

DWG NO.

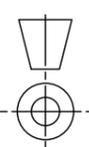
N28144

SHT NO. S3-7

NOTES :

- FOR SITE SPECIFIC NOTES REFER SHEETS S0 & S0-1.
- FOR EME SIGNS NOTED AS #X REFER 005486 DOCUMENTS FOR DETAILS.
- #15 PROPOSED EME SIGNAGE AT 4.5m AGL ON THE END OF THE TUNNEL WALL.

DO NOT SCALE



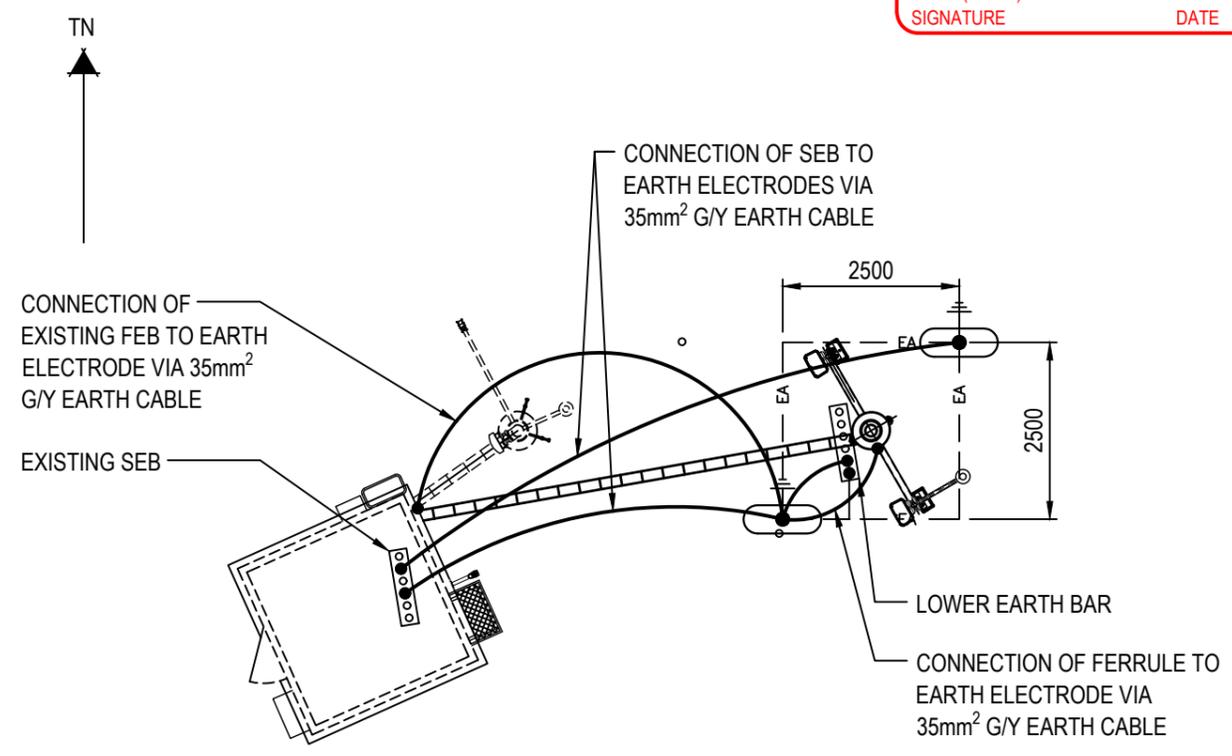
COMPLIANCE BOX
 COMPLETED AS PER DESIGN
 ALTERATIONS IN RED
 NAME (PRINT) _____
 SIGNATURE _____ DATE _____

NOTES

- REFER TO DRAWING NO. 017866P201 SHEET 1 FOR ADDITIONAL CONNECTION DETAILS. REFER TO DRAWING NO. 017866P204 SHEET 1 FOR POLE EARTH LAYOUT.
- ALL EARTH STRAPS TO BE 50 x 3 mm HOT DIPPED GALVANISED MS FLAT AND LAID TO A MINIMUM DEPTH OF 500mm.
- THE NUMBER & DEPTH OF EARTH ELECTRODES ARE TO BE BASED ON A RESISTIVITY SURVEY. ELECTRODES ARE SOLID STAINLESS STEEL OR STAINLESS STEEL CLAD ROD. WHEN STANDARD STAINLESS STEEL CLAD RODS ARE UTILISED THESE ARE 1440mm LONG. 2 OF THESE RODS ARE TO BE UTILISED, JOINED TOGETHER AS A MINIMUM TO A LENGTH OF 2880mm.
 SPECIFIC ELECTRODE DETAIL 2 x 2.88 METRES DEEP.
- 19/1.53mm GREEN & YELLOW COPPER CABLE SHALL BE RUN FROM THE ANTENNA STRUCTURE AND TERMINATE AT THE ELECTRODE NEAREST THE STRUCTURE, THIS CONDUCTOR IS THEN TO CONTINUE ON TO THE SERVICE EARTH BAR. FOR FURTHER DETAIL ON EARTHING THE ANTENNA STRUCTURE TO THE RING EARTH SEE DRAWING NO. 017866P204 SHEET 1.
- EARTH RESISTANCE OBJECTIVE IS 5 OHMS. EARTH RESISTANCE MEASUREMENTS ARE TO BE UNDERTAKEN AS PER WORK INSTRUCTION 017866W01, RESULTS ARE TO BE RECORDED ON FORM 017866F07.
- IF OBJECTIVE IS NOT ACHIEVED, REPORT RESULTS TO DESIGN ENGINEER.
- ALL CONNECTIONS TO EARTH ELECTRODES AND JOINTS ARE TO BE TREATED WITH DENSO PASTE AND TAPE. REFER 017866P200 SHEET 1.
- WHERE ELECTRODES CANNOT BE DRIVEN, OR EARTH RESISTIVITY IS HIGH, DEEP DRILLED ELECTRODES MAY NEED TO BE INSTALLED. BACKFILL WITH EARTH ENHANCING MATERIAL (e.g. CALCIUM BENTONITE AND GYPSUM SLURRY).
- WHERE FENCING IS REQUIRED, INTERCONNECT TO FENCE POSTS AT GATE AS SHOWN, AND ALSO TO ADDITIONAL FENCE POST AT OPPOSITE SIDE OF COMPOUND TO THE GATES. REFER 017866P200 SHEET 1.
- FEEDERS TO BE EARTHED AT TOP AND BOTTOM TO THE STRUCTURE. SEE DRAWING NO. 017866P204 SHEET 1. INSTALL AN EARTH WIRE FROM TOP TO BOTTOM TERMINATING AT THE HEAD FRAME AND TO THE STRUCTURE BASE. IF STRUCTURE IS > 30m IN HEIGHT, AT LEAST 2 DOWN CONDUCTORS ARE REQUIRED. REFER AS1768. TERMINATE THE FEEDER EARTH TO THE EARTH WIRE VIA LINE TAPS, THEN DENSO WRAP.
- WHERE THE FEEDER RUN IS > 2m BETWEEN THE SHELTER AND ANTENNA STRUCTURE, FEEDERS THAT RUN THROUGH THE CABLE ENTRY WINDOW TO BE EARTHED ON FEEDER EARTH BAR OUTSIDE WINDOW. CONNECT EARTH BAR TO NEAREST EARTH ELECTRODE AT ALL TIMES. FEEDERS THAT RUN VIA A FLOOR ENTRY TO BE EARTHED ON FEEDER EARTH BAR INSIDE SHELTER. IN THIS CASE THE F.E.B. IS TO BE BONDED TO THE S.E.B.
- ALL MAJOR EARTH BONDS ARE TO BE LABELLED AT BOTH ENDS INDICATING THE CABLES ORIGIN.
- WHERE RRU's ARE UTILISED A SEPARATE POWER SYSTEM AND S.P.D. BOX ARE TO BE INSTALLED, THE S.P.D. BOX THE DC CABLES ARE TO BE SEGREGATED FROM OTHER S.P.C. REFERENCED EQUIPMENT & CABLES. THE S.P.D. & DC SUPPLY ARE TO BE EARTHED TO THE F.E.B. AS PER DRAWING 017866P134 SHEETS 1 TO 4.

ADDITIONAL CONCRETE POLE DETAIL

- WHERE FEEDERS ARE RUN INSIDE A CONCRETE POLE, UPPER FEEDER EARTHING IS UNDERTAKEN TO THE HEADFRAME OR UPPER POLE EARTH FERRULE. ENSURE FEEDERS EXTEND OUTSIDE OF POLE. NO UPPER EARTH BAR IS REQUIRED. LOWER FEEDER EARTHING IS TO BE UNDERTAKEN AT LOWER F.E.B. INSTALLED BELOW THE FEEDER OPENING. REFER TO DRAWING NO. 017866P204 SHEET 1.
- WHERE FEEDERS ARE RUN IN EXTERNAL FEEDER TRAY UP THE POLE I.E. SHARED SITE, EARTH BARS ARE TO BE INSTALLED TOP AND BOTTOM OF THE POLE. FEEDERS TO BE EARTHED TO THE POLE EARTH BARS AT THE TOP AND BOTTOM OF POLE. REFER TO DRAWING NO. 017866P204 SHEET 1.
- A 19/1.53mm GREEN & YELLOW COPPER CABLE SHALL BE RUN FROM THE POLE LOWER EARTH BAR AND TERMINATE AT THE ELECTRODE NEAREST THE POLE AND CONTINUE TO THE SERVICE EARTH BAR, IN ADDITION, AN EARTH STRAP IS ALSO TO BE RUN FROM THE POLE LOWER EARTH BAR TO THE RING EARTH. REFER TO DRAWING NO. 017866P204 SHEET 1.
- A FERRULE IS FITTED TO THE BASE OF THE POLE, CONNECT EARTH WIRE FROM FERRULE TO EARTH ELECTRODE.



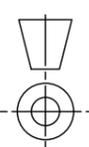
PLAN VIEW
 SCALE 1:100
 1m 0 1m 2m 3m 4m 5m SCALE 1:100

EARTH ELECTRODE SCHEDULE			
TYPE	DIAMETER	QUANTITY	DEPTH
STAINLESS STEEL CLAD ROD	14mm	2	2.88m
EARTH GRID SCHEDULE			
TYPE	DIMENSIONS		
HOT DIPPED GALVANISED MS FLAT	50 x 3mm		

LEGEND

- EARTH STRAP EA
- 35mm² G/Y INSULATED CABLE (19/1.53)
- EARTH INSPECTION PIT
- SITE FENCING
- EARTH ELECTRODE
- SERVICE EARTH BAR (XXmm AFFL) SEB
- FEEDER EARTH BAR FEB

DO NOT SCALE



ORDER	DRWN	CHKD	AMENDMENT	EXAM	APPD	DATE	ISS
NA24240.01	JM	TL	FOR CONSTRUCTION - SP30098633W0002DOWN	RC	PG	18.11.22	1

FOR CONSTRUCTION

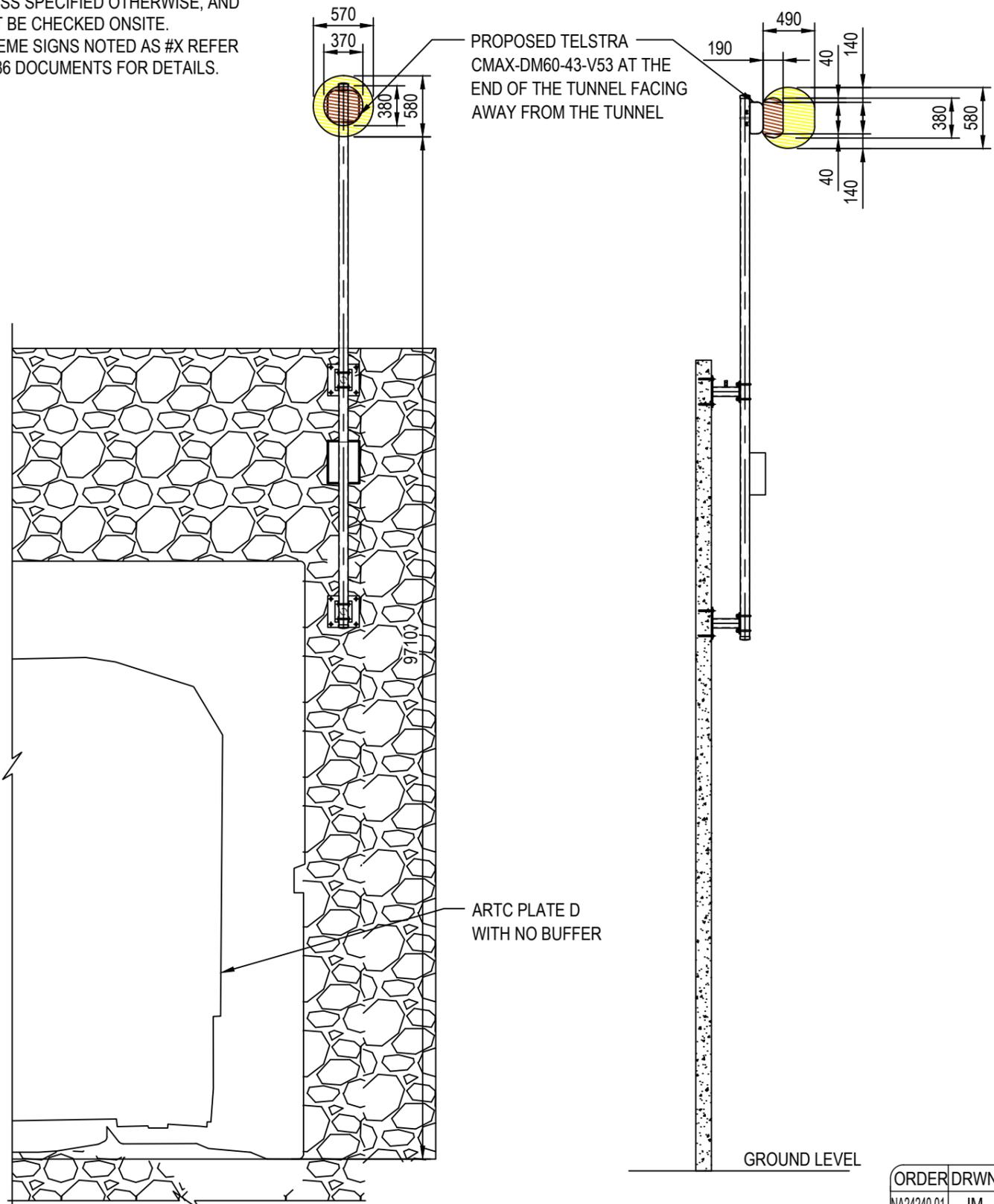
Telstra

MOBILE NETWORK SITE 252474
 BYLONG NO.3 TUNNEL EXIT
 SITE EARTHING
 455 WOLLGYS RD, UPPER BYLONG, 2849

DWG NO. **N28144** SHT NO. G4-3

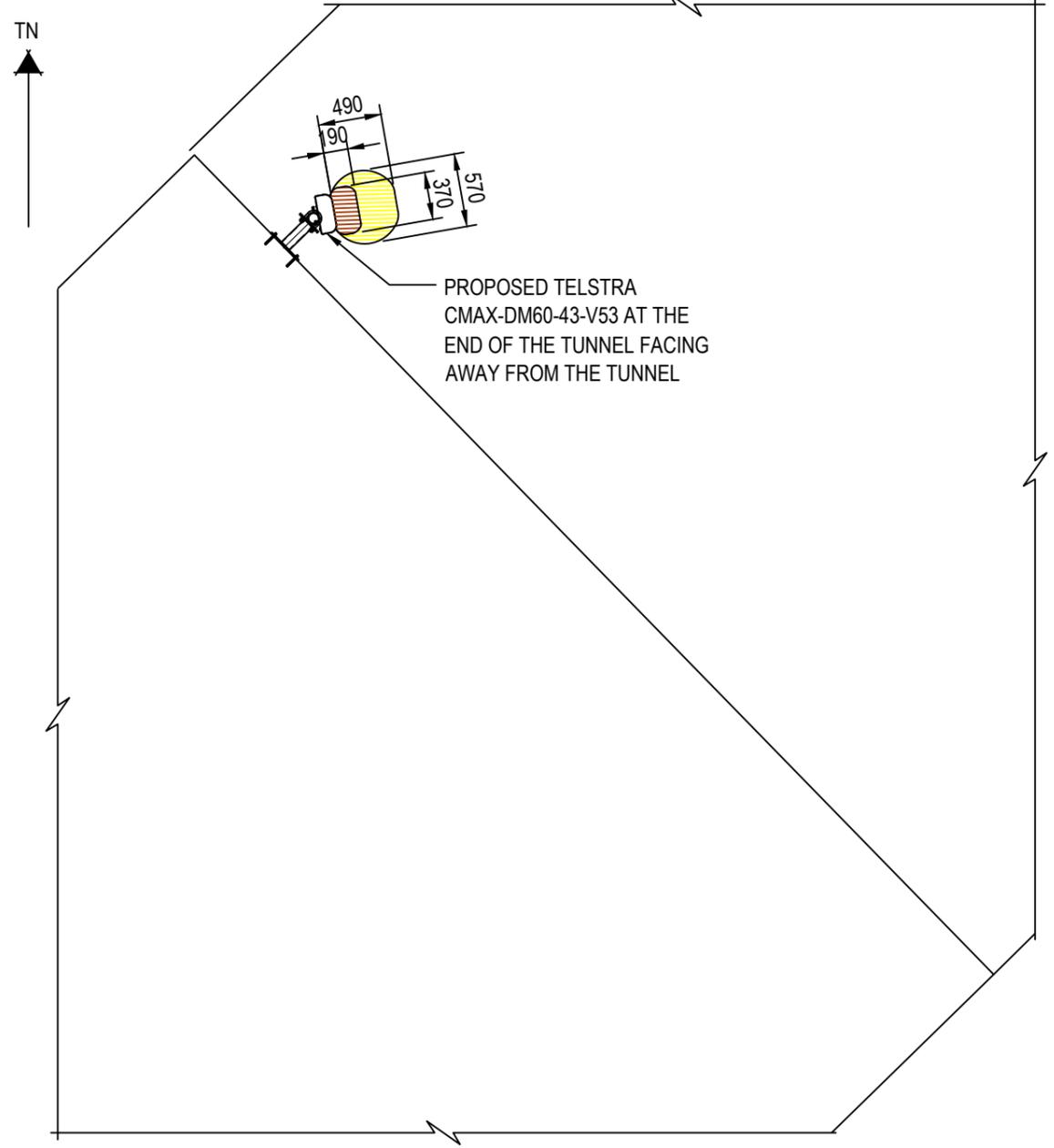
NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS SPECIFIED OTHERWISE, AND MUST BE CHECKED ONSITE.
2. FOR EME SIGNS NOTED AS #X REFER 005486 DOCUMENTS FOR DETAILS.



EME EXCLUSION ZONES - ELEVATION VIEW

SCALE 1:50
500 0 2500 SCALE 1:50



EME EXCLUSION ZONES - PLAN VIEW

SCALE 1:50
500 0 2500 SCALE 1:50

EXCLUSION ZONE LEGEND

- AREAS ABOVE RPS3 OCCUPATIONAL LIMITS
- AREAS ABOVE RPS3 PUBLIC LIMITS

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

FOR CONSTRUCTION

ORDER	DRWN	CHKD	AMENDMENT	EXAM	APPD	DATE	ISS
NA24240.01	JM	TL	FOR CONSTRUCTION - SP30098633W0002DOWN	RC	PG	18.11.22	1

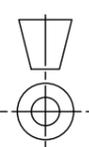
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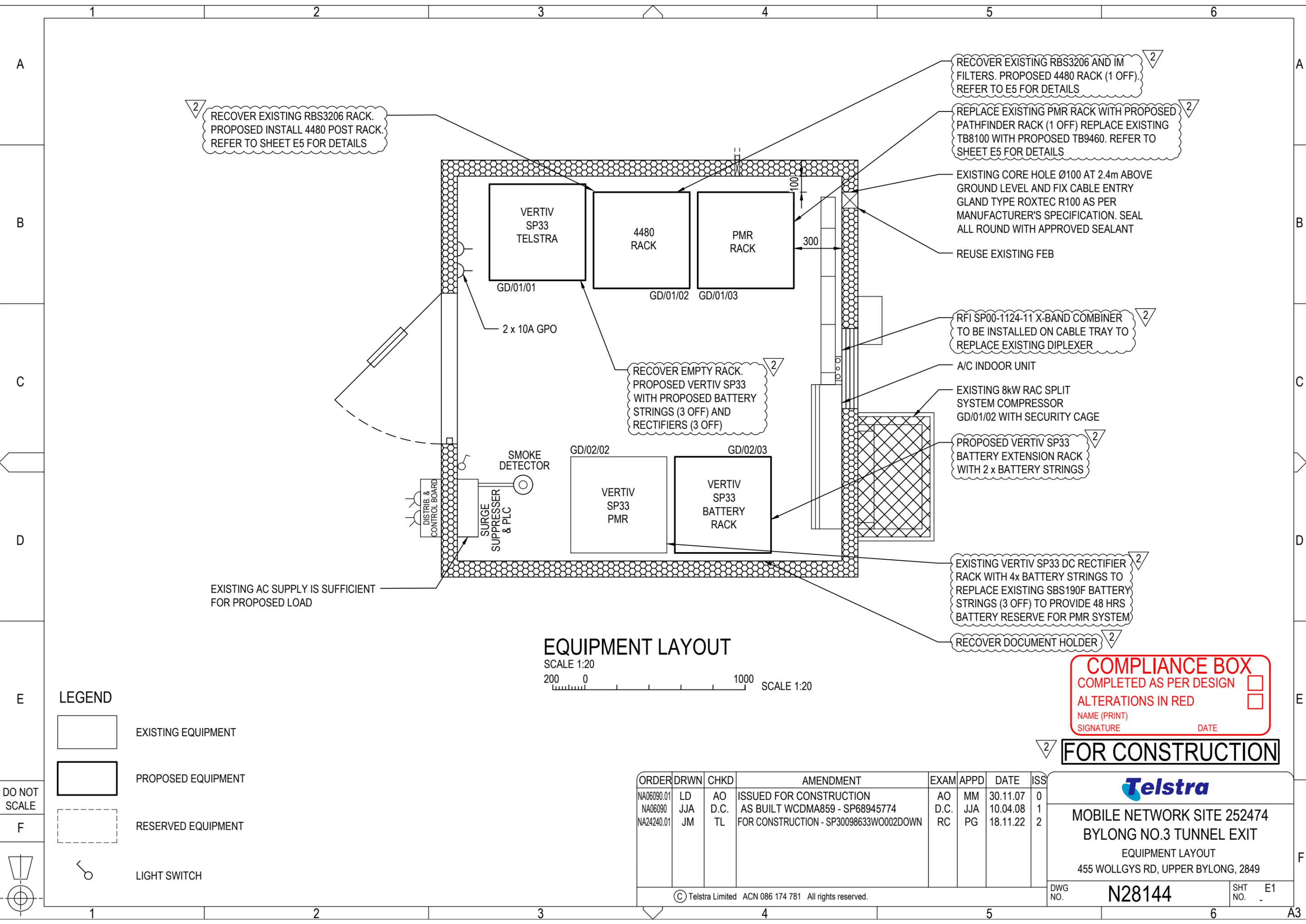
Telstra

MOBILE NETWORK SITE 252474
BYLONG NO.3 TUNNEL EXIT
 EME EXCLUSION ZONES
 455 WOLLGYS RD, UPPER BYLONG, 2849

DWG NO. **N28144** SHT NO. A1-1

DO NOT SCALE





2 RECOVER EXISTING RBS3206 RACK. PROPOSED INSTALL 4480 POST RACK. REFER TO SHEET E5 FOR DETAILS

2 RECOVER EXISTING RBS3206 AND IM FILTERS. PROPOSED 4480 RACK (1 OFF). REFER TO E5 FOR DETAILS

2 REPLACE EXISTING PMR RACK WITH PROPOSED PATHFINDER RACK (1 OFF) REPLACE EXISTING TB8100 WITH PROPOSED TB9460. REFER TO SHEET E5 FOR DETAILS

EXISTING CORE HOLE Ø100 AT 2.4m ABOVE GROUND LEVEL AND FIX CABLE ENTRY GLAND TYPE ROXTEC R100 AS PER MANUFACTURER'S SPECIFICATION. SEAL ALL ROUND WITH APPROVED SEALANT

REUSE EXISTING FEB

2 RFI SP00-1124-11 X-BAND COMBINER TO BE INSTALLED ON CABLE TRAY TO REPLACE EXISTING DIPLEXER

A/C INDOOR UNIT

EXISTING 8kW RAC SPLIT SYSTEM COMPRESSOR GD/01/02 WITH SECURITY CAGE

2 PROPOSED VERTIV SP33 BATTERY EXTENSION RACK WITH 2 x BATTERY STRINGS

2 EXISTING VERTIV SP33 DC RECTIFIER RACK WITH 4x BATTERY STRINGS TO REPLACE EXISTING SBS190F BATTERY STRINGS (3 OFF) TO PROVIDE 48 HRS BATTERY RESERVE FOR PMR SYSTEM

2 RECOVER DOCUMENT HOLDER

EXISTING AC SUPPLY IS SUFFICIENT FOR PROPOSED LOAD

EQUIPMENT LAYOUT

SCALE 1:20
 200 0 1000 SCALE 1:20

LEGEND

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

COMPLIANCE BOX

COMPLETED AS PER DESIGN

ALTERATIONS IN RED

NAME (PRINT) _____

SIGNATURE _____ DATE _____

FOR CONSTRUCTION

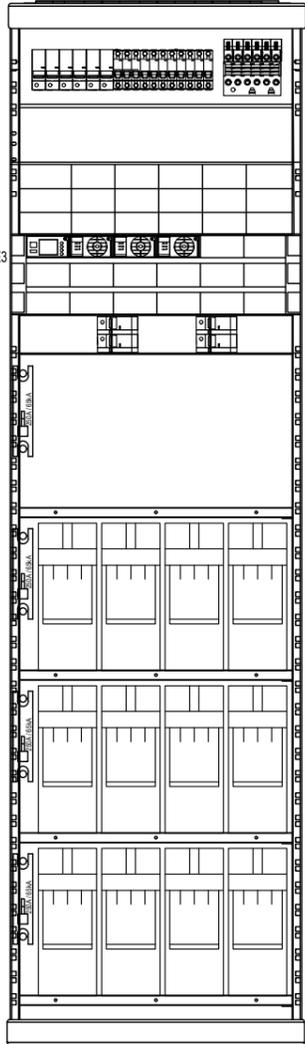
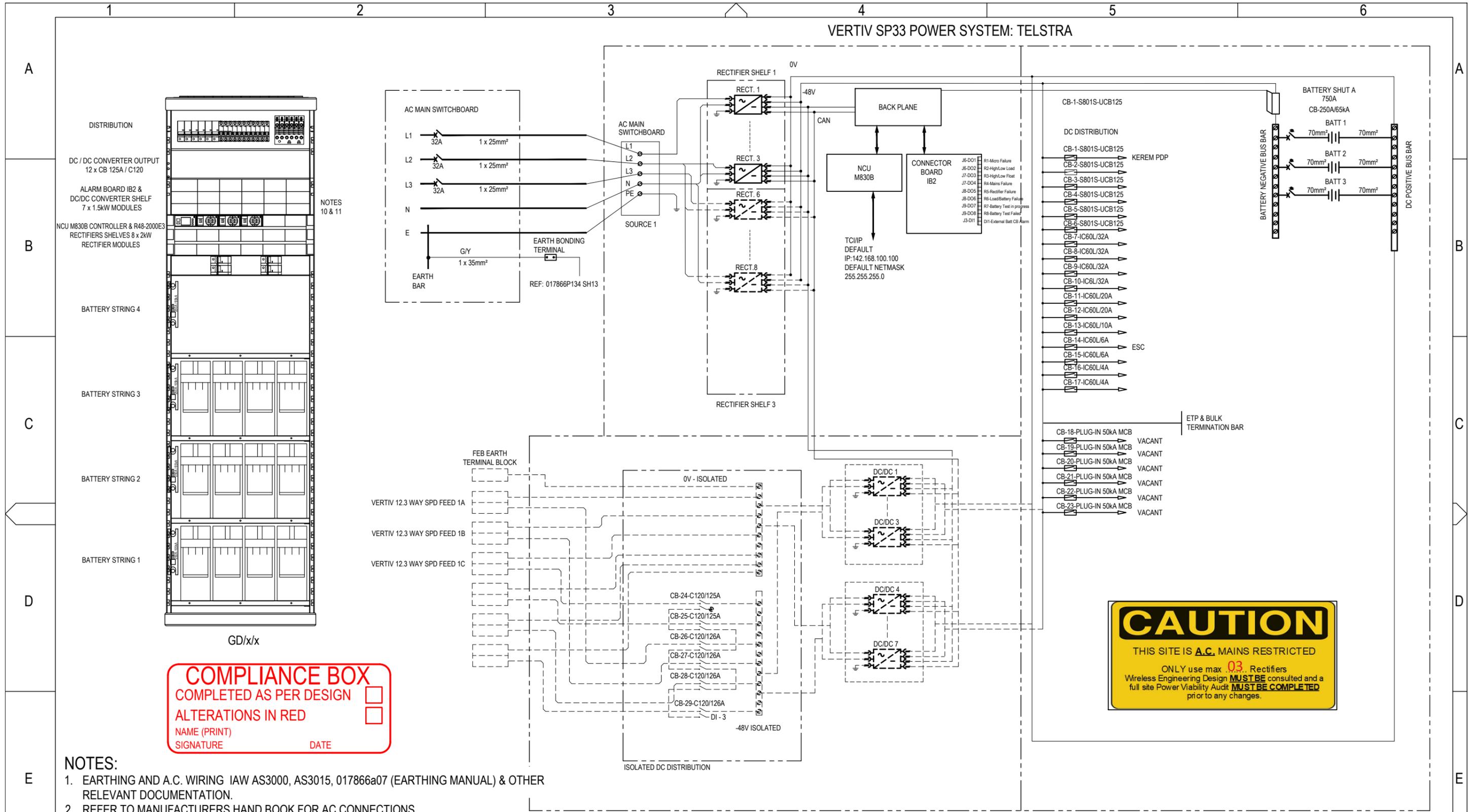
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NA06090	JJA	D.C.	AS BUILT WCDMA859 - SP68945774	D.C.	JJA	10.04.08	1
NA24240.01	JM	TL	FOR CONSTRUCTION - SP30098633WO002DOWN	RC	PG	18.11.22	2

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MOBILE NETWORK SITE 252474
 BYLONG NO.3 TUNNEL EXIT

EQUIPMENT LAYOUT
 455 WOLLGYS RD, UPPER BYLONG, 2849

VERTIV SP33 POWER SYSTEM: TELSTRA



NOTES 10 & 11

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

- NOTES:**
- EARTHING AND A.C. WIRING IAW AS3000, AS3015, 017866a07 (EARTHING MANUAL) & OTHER RELEVANT DOCUMENTATION.
 - REFER TO MANUFACTURERS HAND BOOK FOR AC CONNECTIONS.
 - PANEL NUMBERING IN THE SUBRACK NUMBERED AS ENTERED IN STRUCTURE BUILDER/MITS.
 - CELLS NUMBERED FROM 1 AT THE POSITIVE END OF STRING.
 - BATTERY STRINGS NUMBERED AS SHOWN ABOVE.
 - REFER MANUFACTURER'S HANDBOOK FOR INPUT BREAKER SIZE. RECOMMENDED 50A TH/MAG e.g. MGC60H OR HY/MAG C2 e.g. CBI QF OR QY.
 - POWER ISOLATION TO THE ANTENNAS AND THE TELECOM EQUIPMENT, LOCATED INSIDE THE SHELTER ON SP33 THROUGH RESPECTIVE DC LOAD CIRCUIT BREAKERS.
 - RRU POWER AND EARTHING SP33-HC POWER SYSTEM & DC-DC CONVERTERS - THREE PHASE SITES: REFER TO TELSTRA STD DRG 017866P134 SHEET 13 & 14 FOR DETAILS.
 - PROVIDED LOAD RESTRICTION LABEL - MAXIMUM 12 RECTIFIERS.
 - CAUTION LABEL ATTACHED ON RESTRICTION RECTIFIER BLANKING PLATES.
 - BATTERY EXPANSION RACK INSTALLED IN POSITION GD/1/03 WITH 2-OFF BATTERY STRINGS.

CAUTION
 THIS SITE IS **A.C. MAINS RESTRICTED**
 ONLY use max **03** Rectifiers
 Wireless Engineering Design **MUST BE** consulted and a full site Power Viability Audit **MUST BE COMPLETED** prior to any changes.

FOR CONSTRUCTION

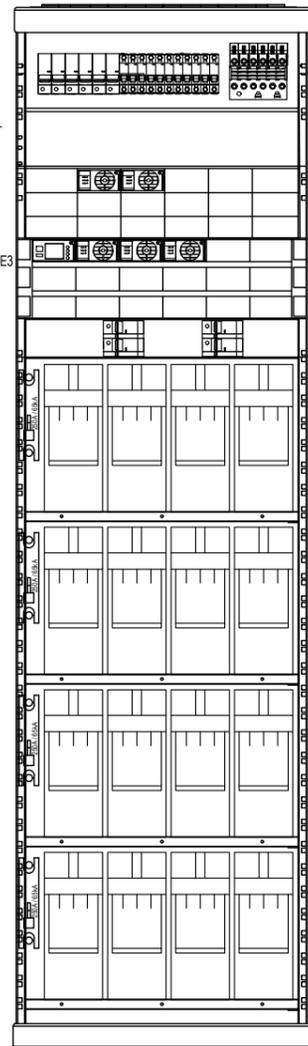
FOR SITE SPECIFIC NOTES REFER TO SHEET S0.

ORDER	DRWN	CHKD	AMENDMENT	EXAM	APPD	DATE	ISS
NA24240.01	JM	TL	FOR CONSTRUCTION - SP30098633W0002DOWN	RC	PG	18.11.22	1

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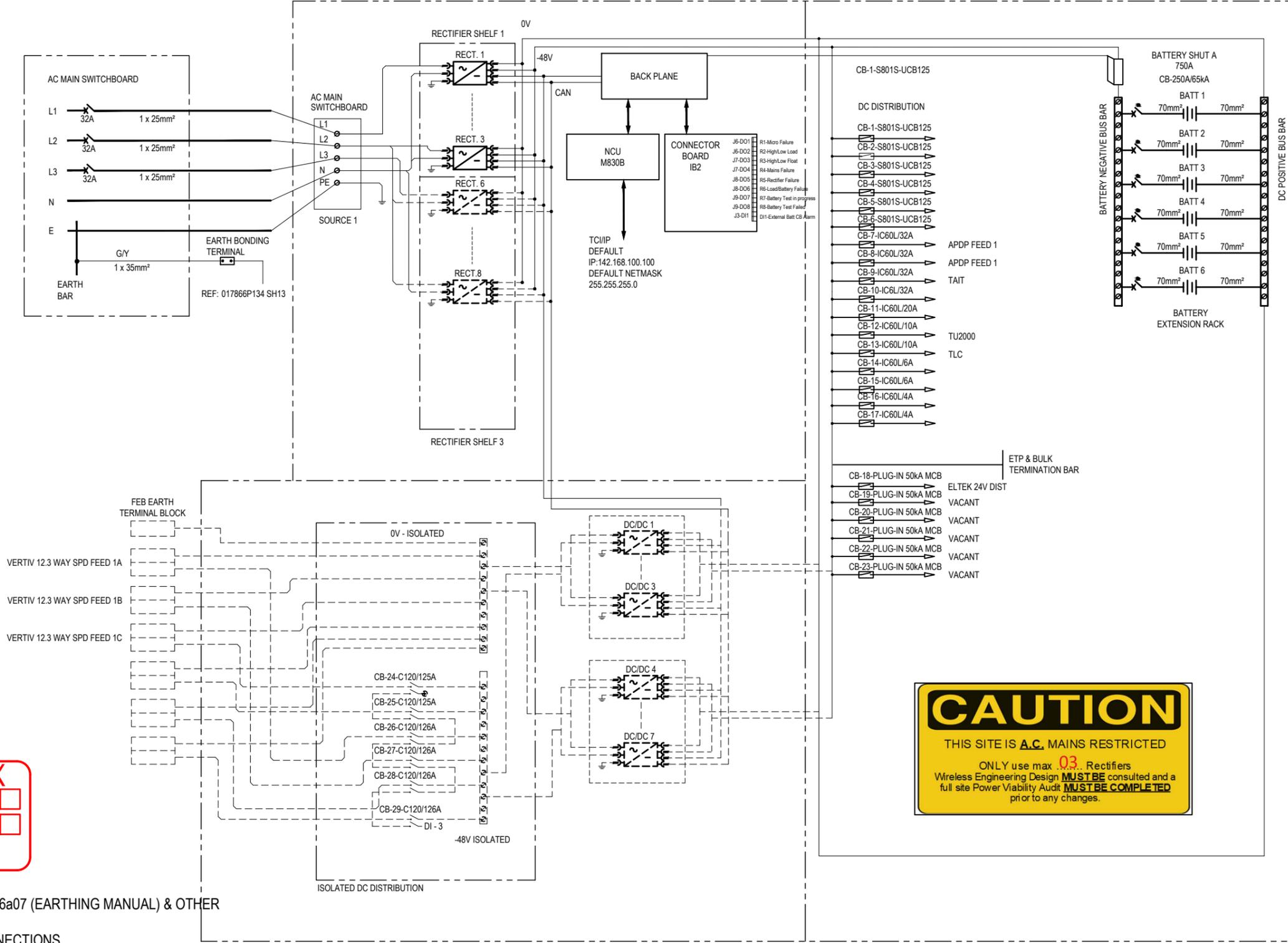
MOBILE NETWORK SITE 252474
 BYLONG NO.3 TUNNEL EXIT
 DC POWER LINE DIAGRAM - SHEET 1 OF 3
 455 WOLLGYS RD, UPPER BYLONG, 2849

VERTIV SP33 POWER SYSTEM: PMR



NOTES 10 & 11

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



CAUTION
 THIS SITE IS **A.C.** MAINS RESTRICTED
 ONLY use max **.03** Rectifiers
 Wireless Engineering Design **MUST BE** consulted and a
 full site Power Viability Audit **MUST BE COMPLETED**
 prior to any changes.

- NOTES:**
- EARTHING AND A.C. WIRING IAW AS3000, AS3015, 017866a07 (EARTHING MANUAL) & OTHER RELEVANT DOCUMENTATION.
 - REFER TO MANUFACTURERS HAND BOOK FOR AC CONNECTIONS.
 - PANEL NUMBERING IN THE SUBRACK NUMBERED AS ENTERED IN STRUCTURE BUILDER/MITS.
 - CELLS NUMBERED FROM 1 AT THE POSITIVE END OF STRING.
 - BATTERY STRINGS NUMBERED AS SHOWN ABOVE.
 - REFER MANUFACTURER'S HANDBOOK FOR INPUT BREAKER SIZE. RECOMMENDED 50A TH/MAG e.g. MGC60H OR HY/MAG C2 e.g. CBI QF OR QY.
 - POWER ISOLATION TO THE ANTENNAS AND THE TELECOM EQUIPMENT, LOCATED INSIDE THE SHELTER ON SP33 THROUGH RESPECTIVE DC LOAD CIRCUIT BREAKERS.
 - RRU POWER AND EARTHING SP33-HC POWER SYSTEM & DC-DC CONVERTERS - THREE PHASE SITES: REFER TO TELSTRA STD DRG 017866P134 SHEET 13 & 14 FOR DETAILS.
 - PROVIDED LOAD RESTRICTION LABEL - MAXIMUM 12 RECTIFIERS.
 - CAUTION LABEL ATTACHED ON RESTRICTION RECTIFIER BLANKING PLATES.
 - BATTERY EXPANSION RACK INSTALLED IN POSITION GD/1/03 WITH 2-OFF BATTERY STRINGS.

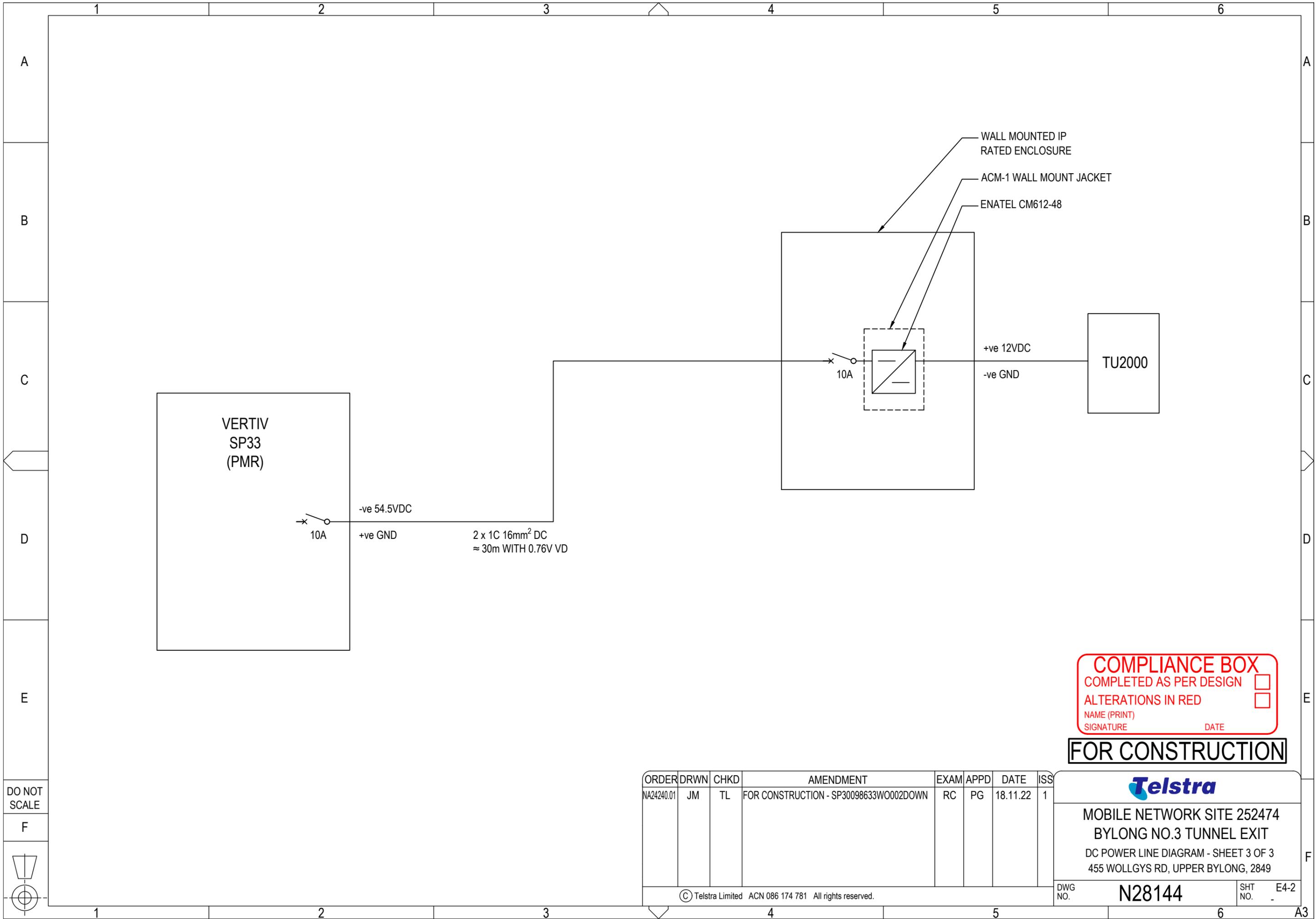
FOR SITE SPECIFIC NOTES REFER TO SHEET S0.

ORDER	DRWN	CHKD	AMENDMENT	EXAM	APPD	DATE	ISS
NA24240.01	JM	TL	FOR CONSTRUCTION - SP30098633W0002DOWN	RC	PG	18.11.22	1

FOR CONSTRUCTION



MOBILE NETWORK SITE 252474
 BYLONG NO.3 TUNNEL EXIT
 DC POWER LINE DIAGRAM - SHEET 2 OF 3
 455 WOLLGYS RD, UPPER BYLONG, 2849

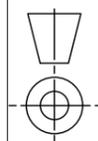


COMPLIANCE BOX
 COMPLETED AS PER DESIGN
 ALTERATIONS IN RED
 NAME (PRINT) _____
 SIGNATURE _____ DATE _____

FOR CONSTRUCTION

DO NOT SCALE

F



ORDER	DRWN	CHKD	AMENDMENT	EXAM	APPD	DATE	ISS
NA24240.01	JM	TL	FOR CONSTRUCTION - SP30098633WO002DOWN	RC	PG	18.11.22	1

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MOBILE NETWORK SITE 252474
BYLONG NO.3 TUNNEL EXIT
 DC POWER LINE DIAGRAM - SHEET 3 OF 3
 455 WOLLGYS RD, UPPER BYLONG, 2849

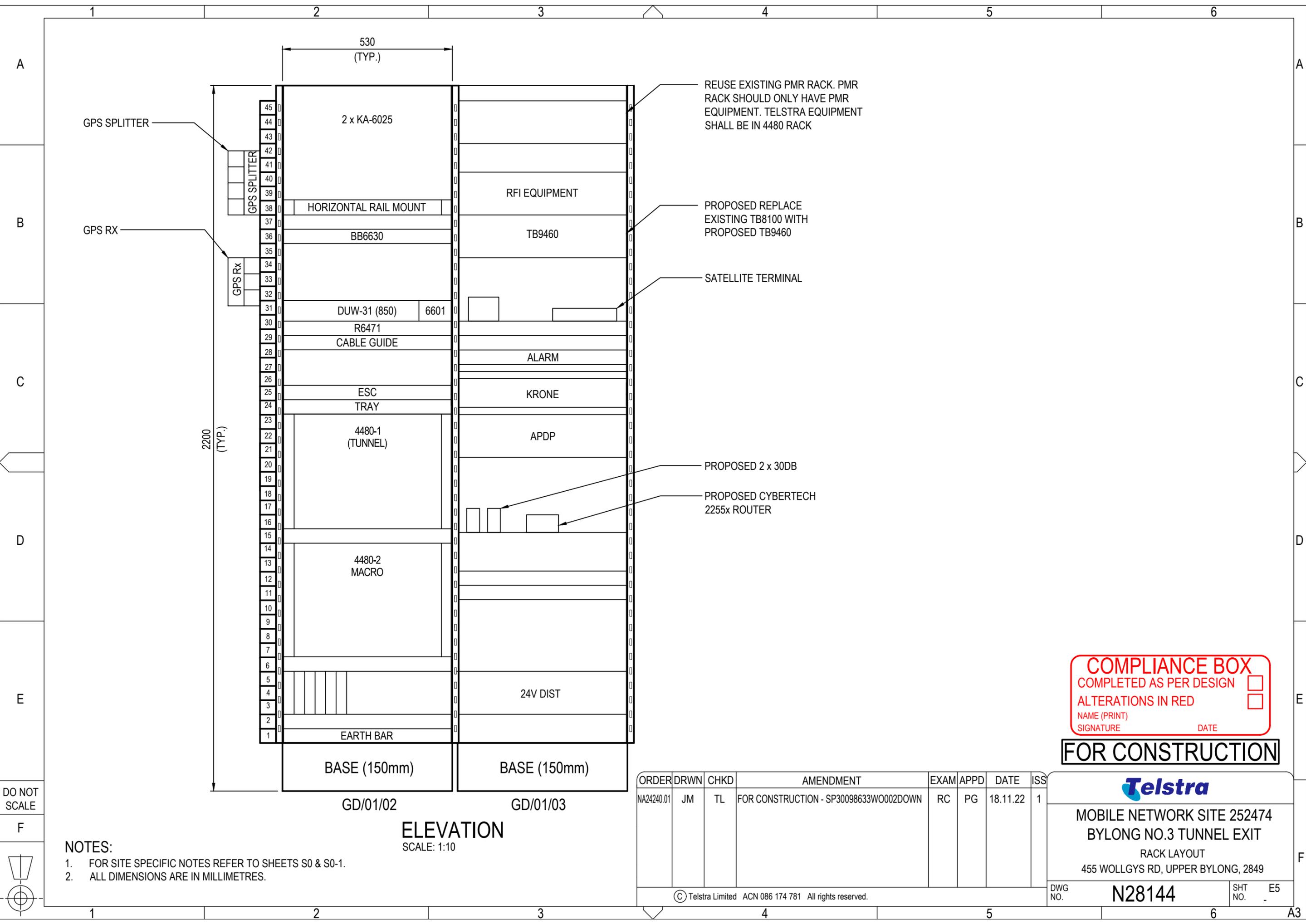
DWG NO.

N28144

SHT NO.

E4-2

A3



REUSE EXISTING PMR RACK. PMR RACK SHOULD ONLY HAVE PMR EQUIPMENT. TELSTRA EQUIPMENT SHALL BE IN 4480 RACK

PROPOSED REPLACE EXISTING TB8100 WITH PROPOSED TB9460

SATELLITE TERMINAL

PROPOSED 2 x 30DB

PROPOSED CYBERTECH 2255x ROUTER

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

FOR CONSTRUCTION

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NA24240.01	JM	TL	FOR CONSTRUCTION - SP30098633WO002DOWN	RC	PG	18.11.22	1

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MOBILE NETWORK SITE 252474
 BYLONG NO.3 TUNNEL EXIT
 RACK LAYOUT
 455 WOLLGYS RD, UPPER BYLONG, 2849

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DWG NO. **N28144** SHT NO. E5

DO NOT SCALE

F



NOTES:

- FOR SITE SPECIFIC NOTES REFER TO SHEETS S0 & S0-1.
- ALL DIMENSIONS ARE IN MILLIMETRES.

BASE (150mm) GD/01/02 BASE (150mm) GD/01/03

ELEVATION
SCALE: 1:10

GPS SPLITTER

GPS RX

GPS SPLITTER

GPS Rx

530 (TYP.)

2200 (TYP.)

2 x KA-6025

HORIZONTAL RAIL MOUNT

BB6630

DUW-31 (850) 6601

R6471

CABLE GUIDE

ESC TRAY

4480-1 (TUNNEL)

4480-2 MACRO

24V DIST

EARTH BAR

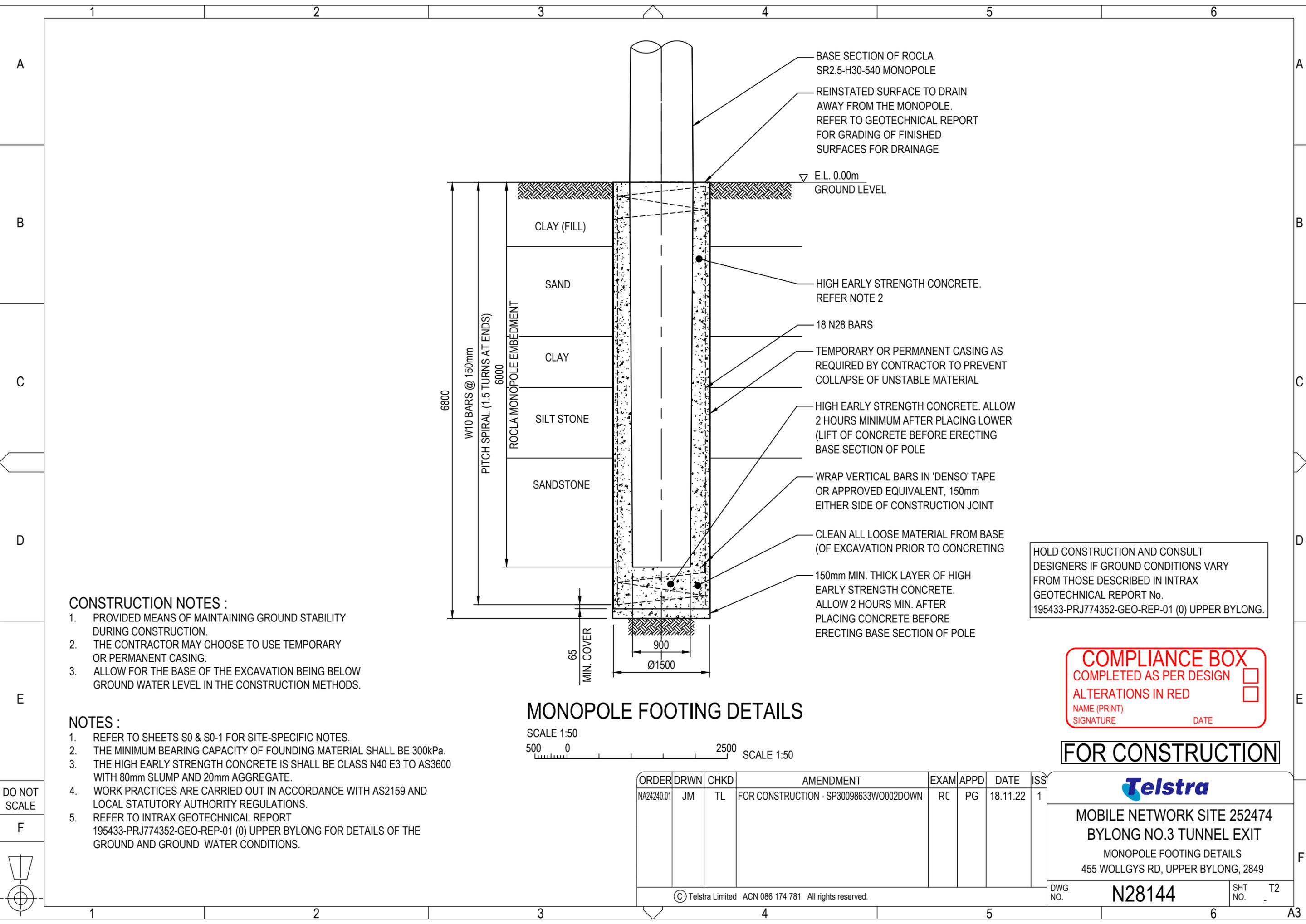
RFI EQUIPMENT

TB9460

ALARM

KRONE

APDP



BASE SECTION OF ROCLA SR2.5-H30-540 MONOPOLE

REINSTATED SURFACE TO DRAIN AWAY FROM THE MONOPOLE. REFER TO GEOTECHNICAL REPORT FOR GRADING OF FINISHED SURFACES FOR DRAINAGE

E.L. 0.00m
GROUND LEVEL

HIGH EARLY STRENGTH CONCRETE. REFER NOTE 2

18 N28 BARS

TEMPORARY OR PERMANENT CASING AS REQUIRED BY CONTRACTOR TO PREVENT COLLAPSE OF UNSTABLE MATERIAL

HIGH EARLY STRENGTH CONCRETE. ALLOW 2 HOURS MINIMUM AFTER PLACING LOWER (LIFT OF CONCRETE BEFORE ERECTING BASE SECTION OF POLE

WRAP VERTICAL BARS IN 'DENSO' TAPE OR APPROVED EQUIVALENT, 150mm EITHER SIDE OF CONSTRUCTION JOINT

CLEAN ALL LOOSE MATERIAL FROM BASE (OF EXCAVATION PRIOR TO CONCRETING

150mm MIN. THICK LAYER OF HIGH EARLY STRENGTH CONCRETE. ALLOW 2 HOURS MIN. AFTER PLACING CONCRETE BEFORE ERECTING BASE SECTION OF POLE

HOLD CONSTRUCTION AND CONSULT DESIGNERS IF GROUND CONDITIONS VARY FROM THOSE DESCRIBED IN INTRAX GEOTECHNICAL REPORT No. 195433-PRJ774352-GEO-REP-01 (0) UPPER BYLONG.

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

FOR CONSTRUCTION

CONSTRUCTION NOTES :

1. PROVIDED MEANS OF MAINTAINING GROUND STABILITY DURING CONSTRUCTION.
2. THE CONTRACTOR MAY CHOOSE TO USE TEMPORARY OR PERMANENT CASING.
3. ALLOW FOR THE BASE OF THE EXCAVATION BEING BELOW GROUND WATER LEVEL IN THE CONSTRUCTION METHODS.

NOTES :

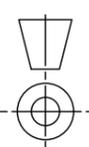
1. REFER TO SHEETS S0 & S0-1 FOR SITE-SPECIFIC NOTES.
2. THE MINIMUM BEARING CAPACITY OF FOUNDING MATERIAL SHALL BE 300kPa.
3. THE HIGH EARLY STRENGTH CONCRETE IS SHALL BE CLASS N40 E3 TO AS3600 WITH 80mm SLUMP AND 20mm AGGREGATE.
4. WORK PRACTICES ARE CARRIED OUT IN ACCORDANCE WITH AS2159 AND LOCAL STATUTORY AUTHORITY REGULATIONS.
5. REFER TO INTRAX GEOTECHNICAL REPORT 195433-PRJ774352-GEO-REP-01 (0) UPPER BYLONG FOR DETAILS OF THE GROUND AND GROUND WATER CONDITIONS.

MONOPOLE FOOTING DETAILS

SCALE 1:50
 500 0 2500 SCALE 1:50

DO NOT SCALE

F



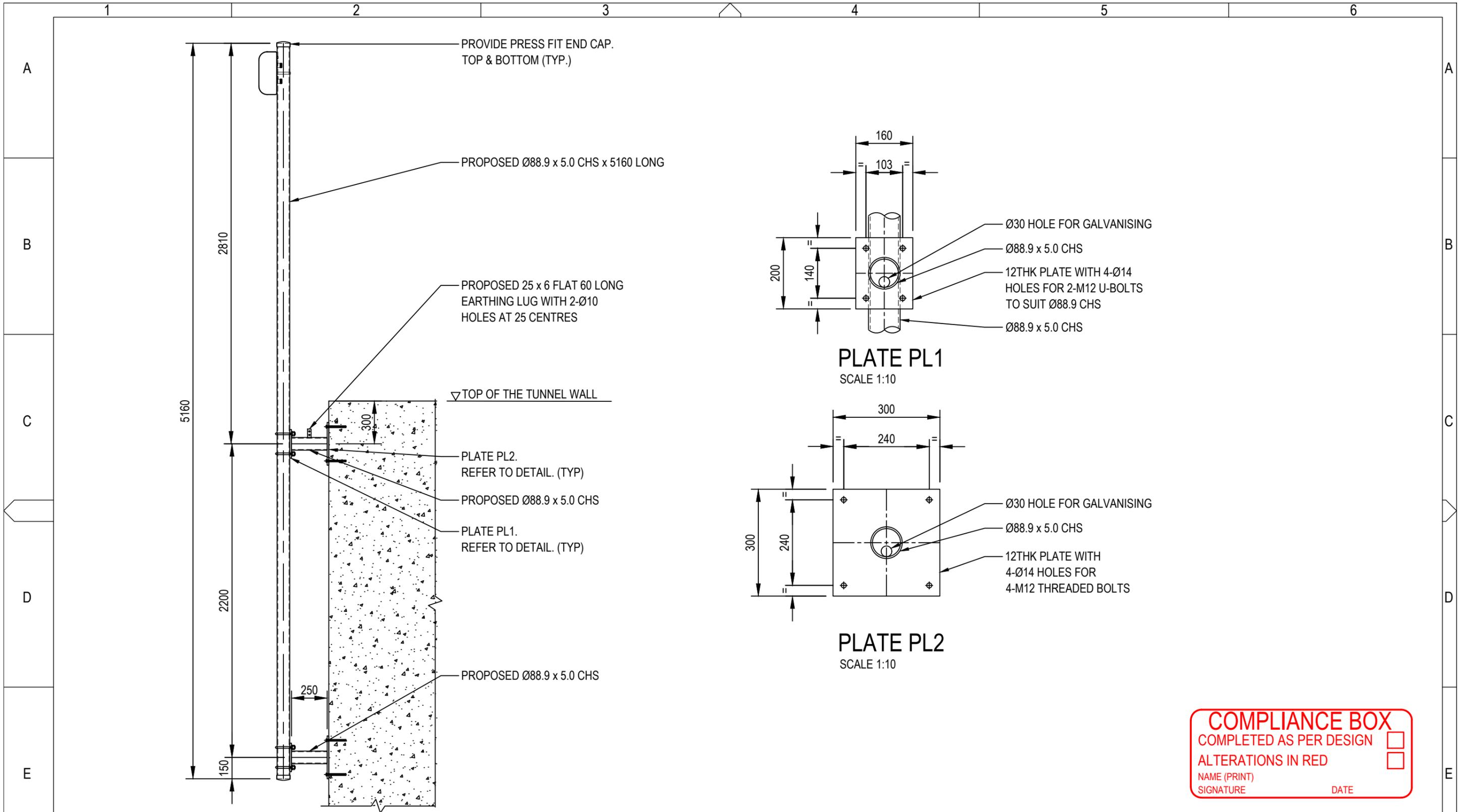
ORDER	DRWN	CHKD	AMENDMENT	EXAM	APPD	DATE	ISS
NA24240.01	JM	TL	FOR CONSTRUCTION - SP30098633W0002DOWN	RC	PG	18.11.22	1

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MOBILE NETWORK SITE 252474
 BYLONG NO.3 TUNNEL EXIT
 MONOPOLE FOOTING DETAILS
 455 WOLLGYS RD, UPPER BYLONG, 2849

DWG NO. **N28144** SHT NO. T2



ANTENNA MOUNT ELEVATION
SCALE 1:25

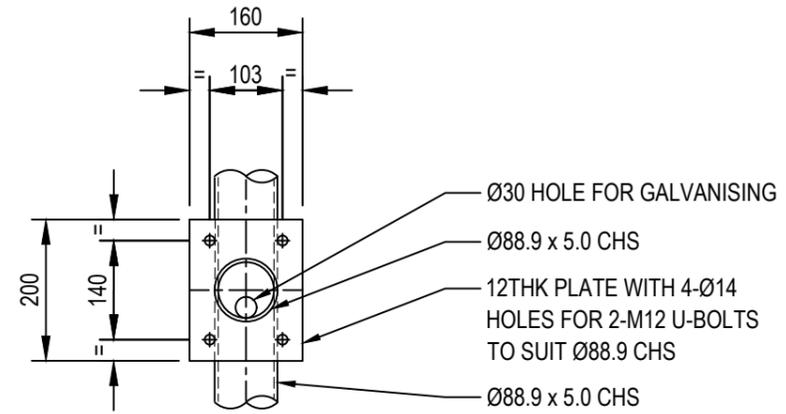


PLATE PL1
SCALE 1:10

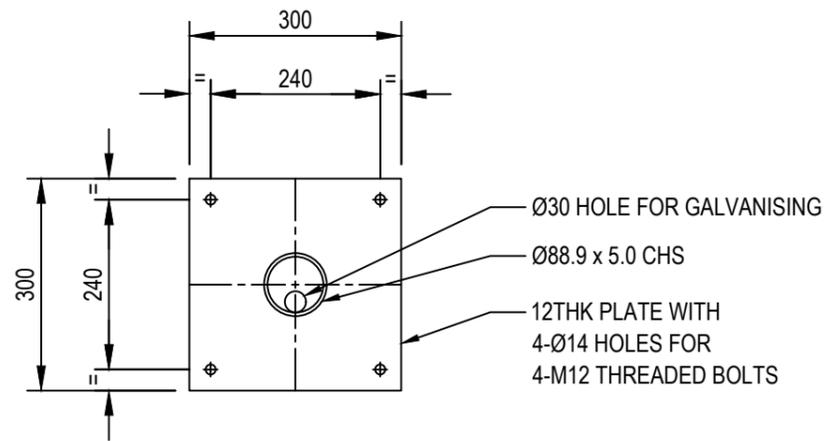


PLATE PL2
SCALE 1:10

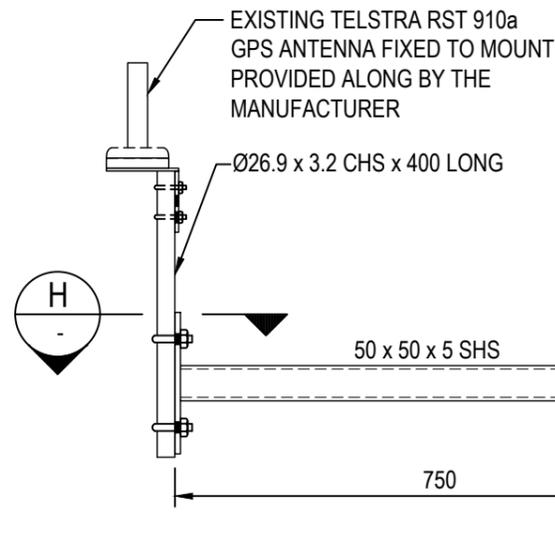
COMPLIANCE BOX
 COMPLETED AS PER DESIGN
 ALTERATIONS IN RED
 NAME (PRINT) _____
 SIGNATURE _____ DATE _____

FOR CONSTRUCTION

- NOTES :**
- REFER TO SHEETS S0 & S0-1 FOR SITE-SPECIFIC NOTES.
 - REFER TO DRAWING 017866P05 FOR TELSTRA'S STANDARD CONSTRUCTION NOTES.
 - ALL WELDING TO BE CATEGORY SP TO AS1554 (2014). ALL WELDS TO BE 5mm CFW, U.N.O.
 - ALL HOLLOW SECTIONS TO AS1163 (2016) GRADE C250L0 U.N.O.. ALL HOT ROLLED STEEL TO AS3678 (2016) & AS3679.1 (2016) (GRADE300) U.N.O.
 - HILTI HAS U THREADED ROD WITH HIT-HY 200-R V3 INJECTION MORTAR WITH 120mm EMBEDMENT H-EF, M12 HOT DIP GALVANISED, HAMMER DRILLING INSTALLATION PER ETA 19/0601.

ORDER	DRWN	CHKD	AMENDMENT	EXAM	APPD	DATE	ISS
NA24240.01	JM	TL	FOR CONSTRUCTION - SP30098633WO002DOWN	RC	PG	18.11.22	1

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 MOBILE NETWORK SITE 252474
 BYLONG NO.3 TUNNEL EXIT
 TUNNEL ANTENNA MOUNT DETAILS
 455 WOLLGYS RD, UPPER BYLONG, 2849



ELEVATION
SCALE 1:10

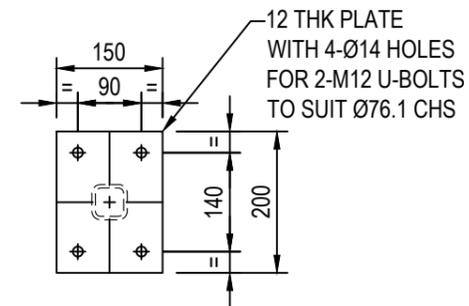
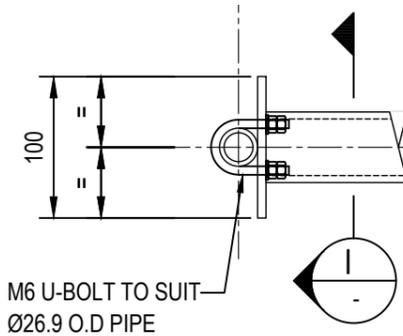
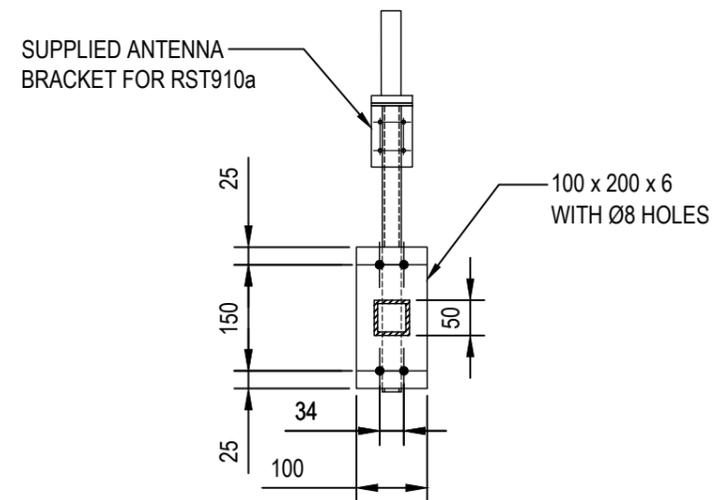


PLATE A
SCALE 1:10



SECTION H-H
SCALE 1:5



SECTION I-I
SCALE 1:10

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

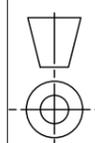
FOR CONSTRUCTION

NOTES :

1. ALL STEELWORK TO BE HOT DIP GALVANISED TO AS4680 (2006) BOLTS GALVANISED TO AS1214 (2016).
2. ALL WELDING TO BE CATEGORY SP TO AS1554 (2014). ALL WELDS TO BE 5mm CFW. U.N.O.
3. ALL HOLLOW SECTIONS TO AS1163 (2016).
4. ALL HOT ROLLED STEEL AS3678 (2006) & AS3679.1 (2016) (GRADE300).
5. ALL SPRING WASHERS TO AS1968 (1976)
6. HIGH STRENGTH BOLTS TO AS1252.1 (2016) & AS1252.2 (2016) (GRADE 8.8/S).
7. REMOVE ALL SWARF, BURRS & SHARP EDGES TO ALL FRESHLY CUT, WELDED OR DRILLED STEEL ON SITE. APPLY TWO COATS OF ZINC RICH PAINT.
8. REFER TO MOP AND SOW FOR ADDITIONAL SITE SPECIFIC NOTES AND INSTRUCTIONS. AS APPLICABLE.

DO NOT SCALE

F



ORDER	DRWN	CHKD	AMENDMENT	EXAM	APPD	DATE	ISS
NA24240.01	JM	TL	FOR CONSTRUCTION - SP30098633WO002DOWN	RC	PG	18.11.22	1

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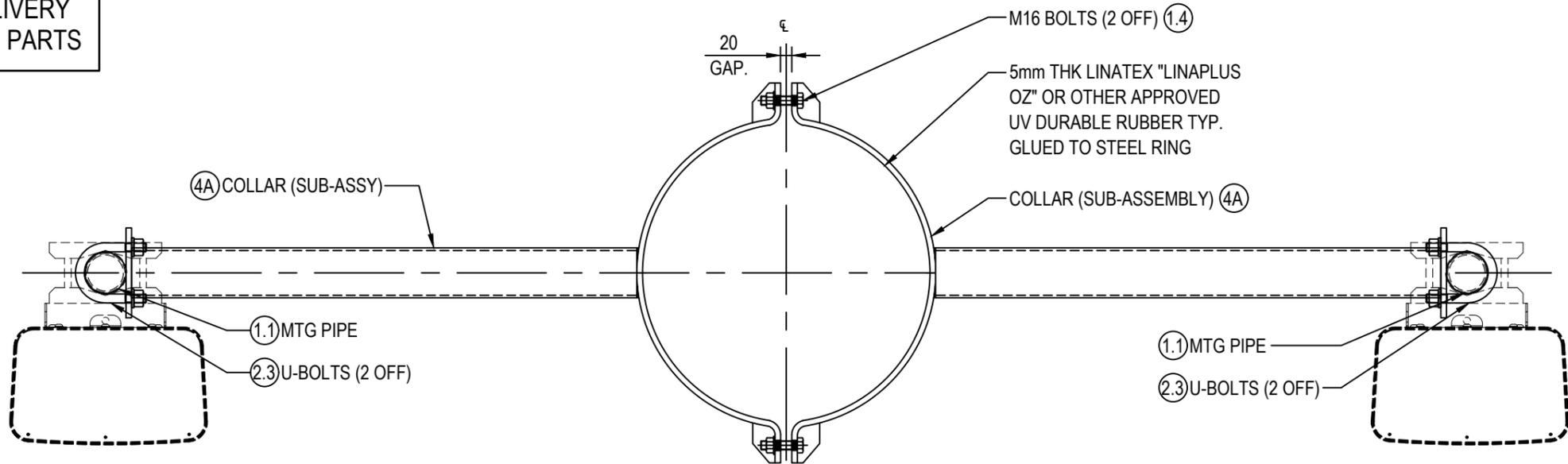
DWG NO.

N28144

SHT NO. T3-5

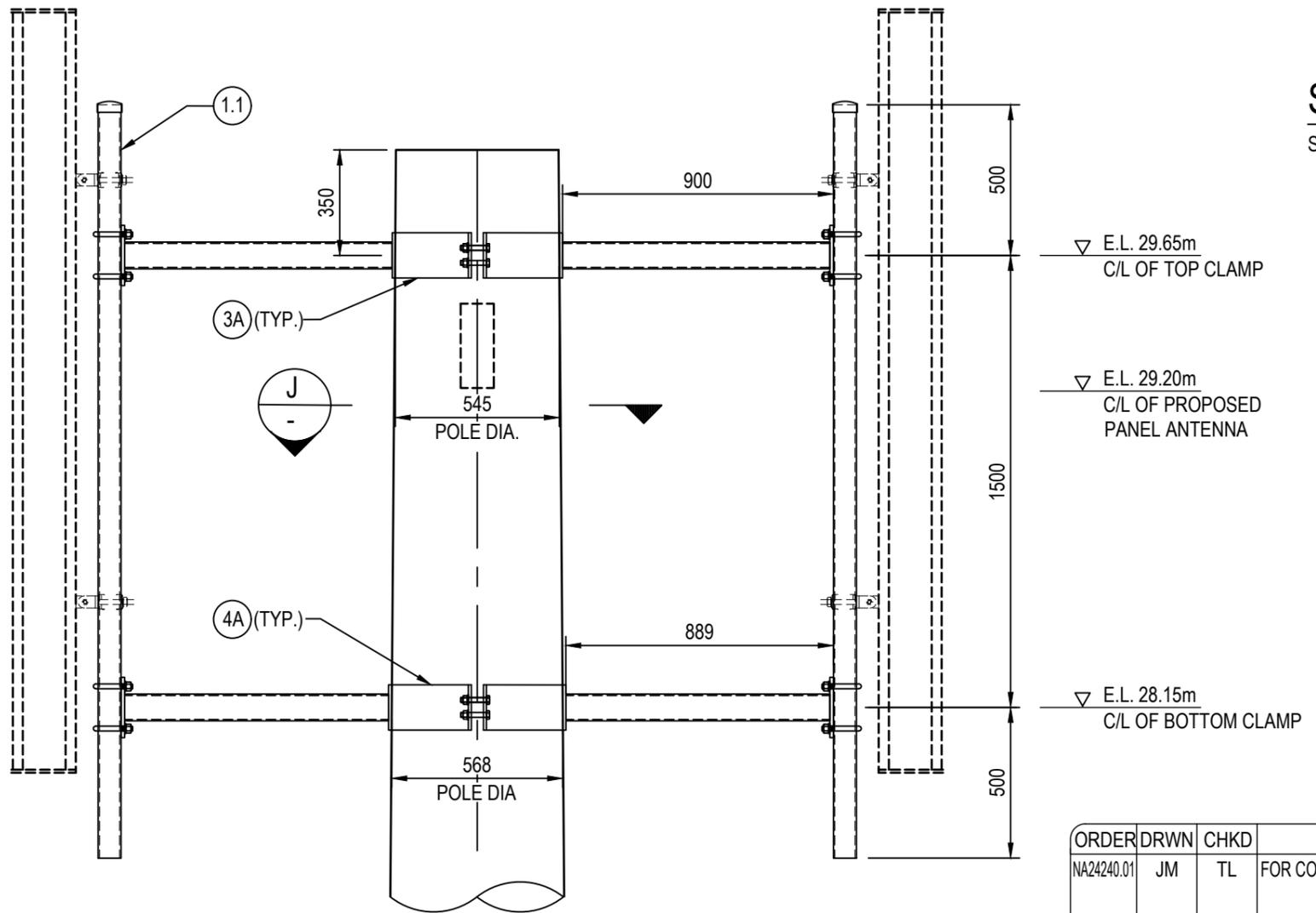
A3

NOTE FOR MANUFACTURER AND INSTALLER
TRIAL ASSEMBLE PRIOR TO GALVANISING AND DELIVERY
TO SITE TO ENSURE CORRECT FIT AND NUMBER OF PARTS



SECTION J
 SCALE 1:10

PARTS LIST		
PART No.	COLLAR PLATE RADIUS (R)	QTY
1.1	Ø76.1 x 5.0 CHS (2500 LONG) MOUNTING PIPE PROVIDE GALVANISED PRESSED METAL END CAPS AFTER GALVANISING	2
1.4	M16 GR8.8/S BOLT CW 1N1W1SW	8
3A	COLLAR (SUB-ASSEMBLY) - SEE DETAIL	2
4A	COLLAR (SUB-ASSEMBLY) - SEE DETAIL	2
2.3	M16 U-BOLT CW 2N2W2SW TO SUIT Ø76.1 OD PIPE REFER TO 017866P70 - SHEET 4	8



PANEL ANTENNA MOUNT ELEVATION
 SCALE 1:20

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

FOR CONSTRUCTION

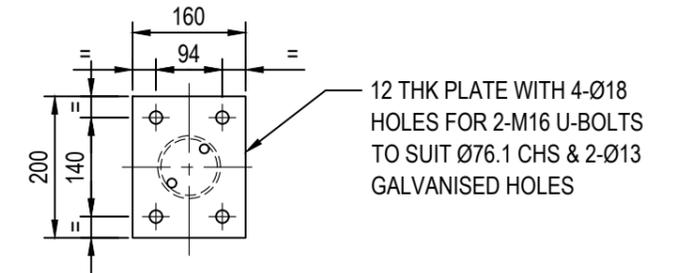
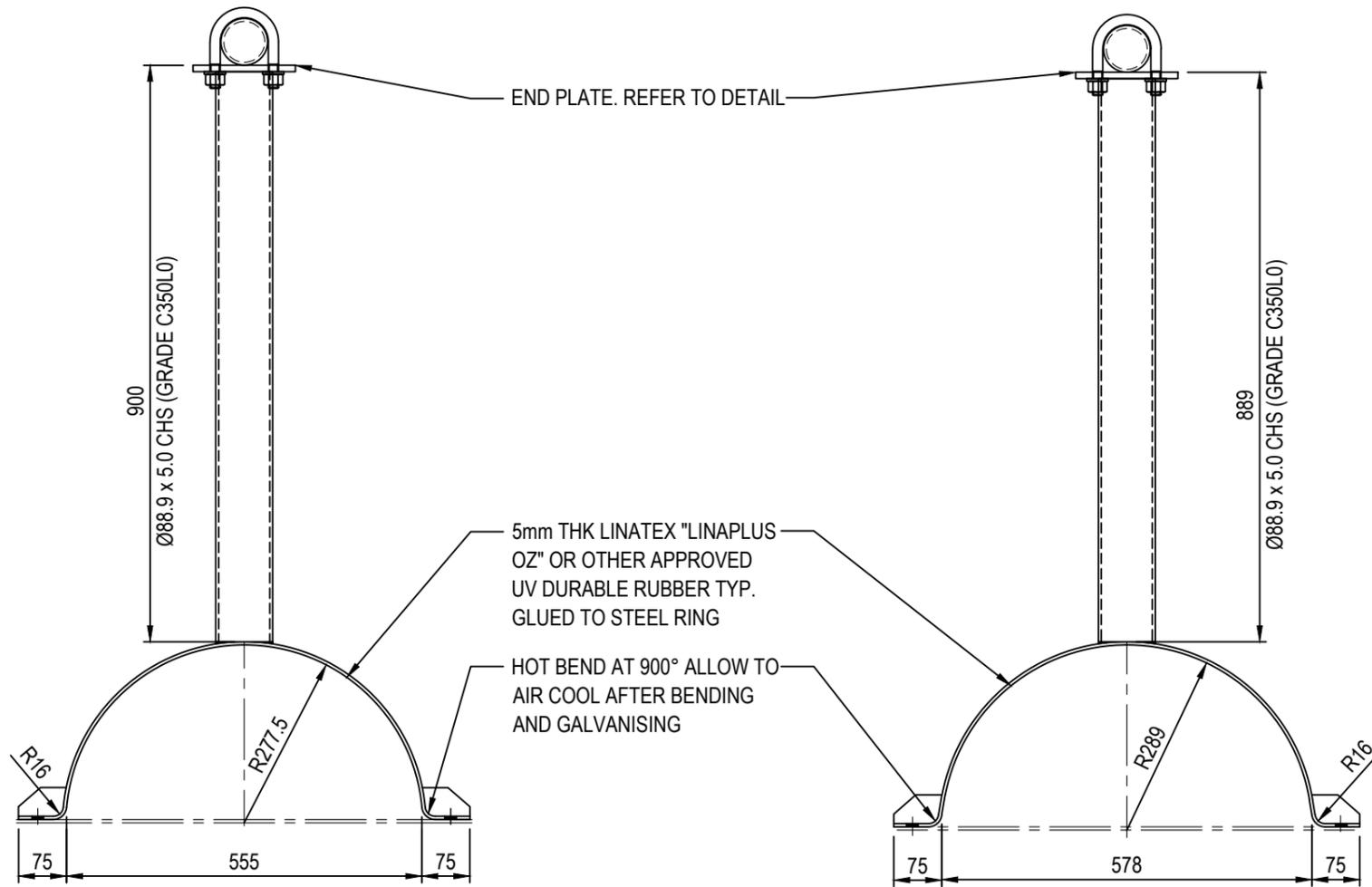
ORDER	DRWN	CHKD	AMENDMENT	EXAM	APPD	DATE	ISS
NA24240.01	JM	TL	FOR CONSTRUCTION - SP30098633WO002DOWN	RC	PG	18.11.22	1

Telstra

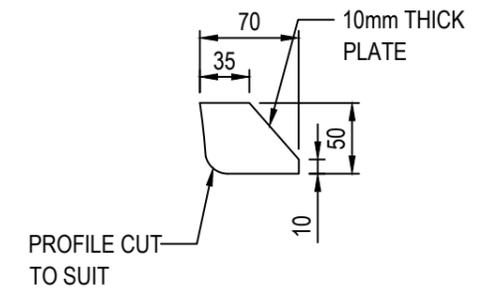
MOBILE NETWORK SITE 252474
 BYLONG NO.3 TUNNEL EXIT
 PANEL ANTENNA MOUNT DETAILS - SHEET 1 OF 2
 455 WOLLGYS RD, UPPER BYLONG, 2849

NOTES:

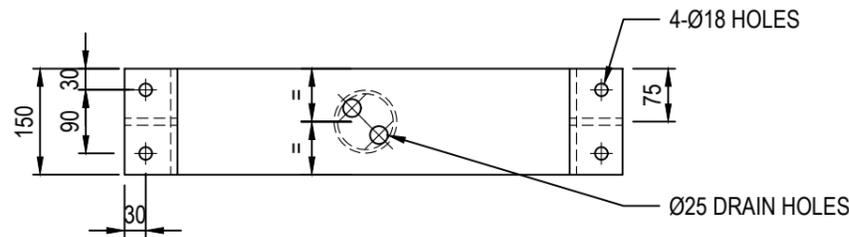
1. FOR SITE SPECIFIC NOTES REFER TO SHEET S0.
2. REFER TO DRAWING 017866P05 FOR TELSTRA'S STANDARD CONSTRUCTION LINES.
3. REFER TO DRAWING 017866P70 SHEET 4 FOR CIRCULAR U-BOLTS DETAILS.
4. ALL WELDING TO BE CATEGORY SP TO AS 1554. ALL WELDS TO BE 6mm CONTINUOUS FILLET WELDS U.N.O.
5. ALL HOLLOW SECTIONS TO AS 1163 GRADE C250L0 U.N.O. ALL HOT ROLLED STEEL TO AS 3678 & AS 3679.1 GRADE 300 U.N.O.



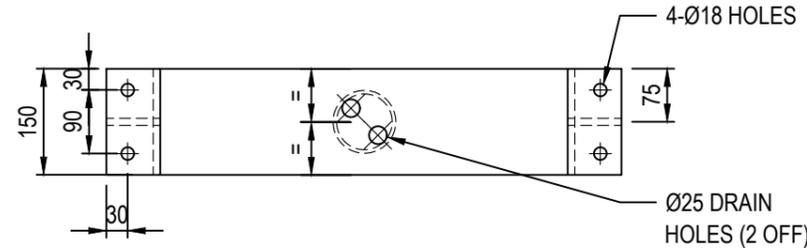
END PLATE
SCALE 1:10



STIFFENER PLATE "1"
SCALE 1:5



3A COLLAR (SUB-ASSEMBLY)
SCALE 1:10



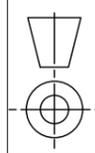
4A COLLAR (SUB-ASSEMBLY)
SCALE 1:10

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DO NOT SCALE

F



ORDER	DRWN	CHKD	AMENDMENT	EXAM	APPD	DATE	ISS
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MOBILE NETWORK SITE 252474
BYLONG NO.3 TUNNEL EXIT
 PANEL ANTENNA MOUNT DETAILS - SHEET 2 OF 2
 455 WOLLGYS RD, UPPER BYLONG, 2849

DWG NO.

N28144

SHT NO. T3-7

1 2 3 4 5 6

A

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E

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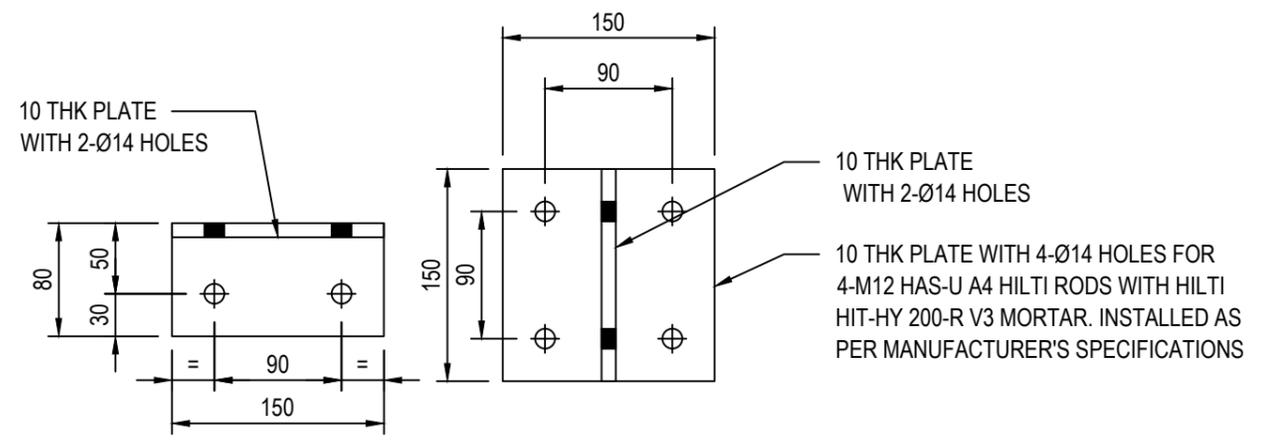
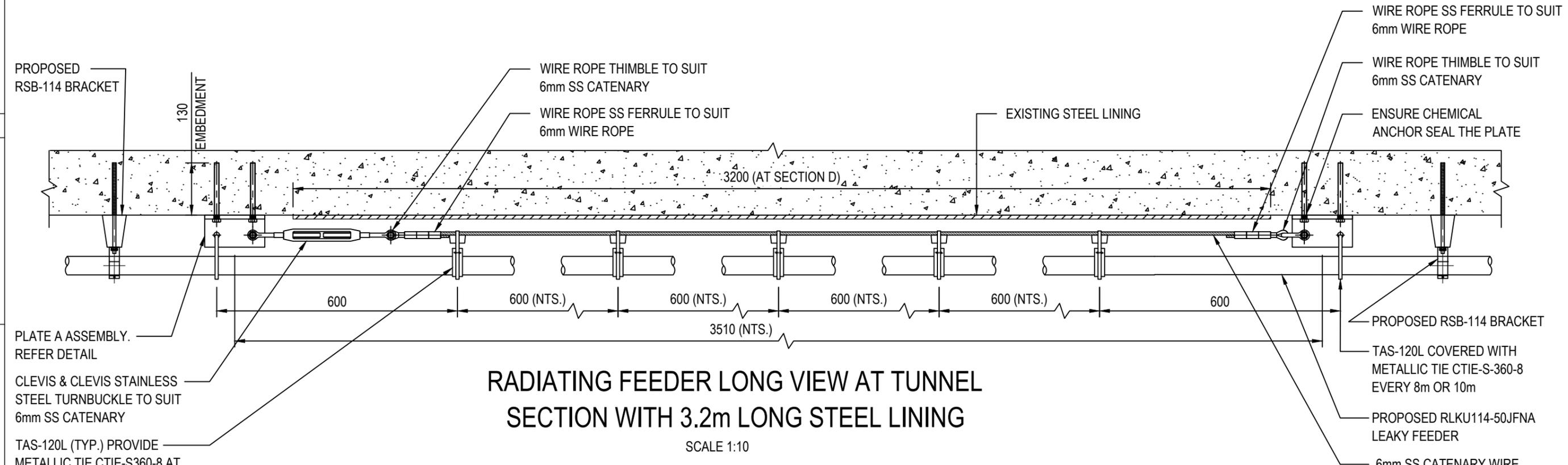


PLATE A ASSEMBLY
SCALE 1:5



RADIATING FEEDER LONG VIEW AT TUNNEL SECTION WITH 3.2m LONG STEEL LINING
SCALE 1:10

PLATE A ASSEMBLY. REFER DETAIL

CLEVIS & CLEVIS STAINLESS STEEL TURNBUCKLE TO SUIT 6mm SS CATENARY

TAS-120L (TYP.) PROVIDE METALLIC TIE CTIE-S360-8 AT EVERY 8m OR 10m

FOR CONSTRUCTION

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

ORDER	DRWN	CHKD	AMENDMENT	EXAM	APPD	DATE	ISS
NA24240.01	JM	TL	FOR CONSTRUCTION - SP30098633WO002DOWN	RC	PG	18.11.22	1

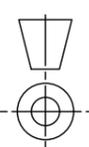
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MOBILE NETWORK SITE 252474
BYLONG NO.3 TUNNEL EXIT
FEEDER FIXING DETAILS WITH STEEL LINING - SHEET 1 OF 2
455 WOLLGYS RD, UPPER BYLONG, 2849

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DWG NO. **N28144** SHT NO. T8-1

DO NOT SCALE



1 2 3 4 5 6 A3

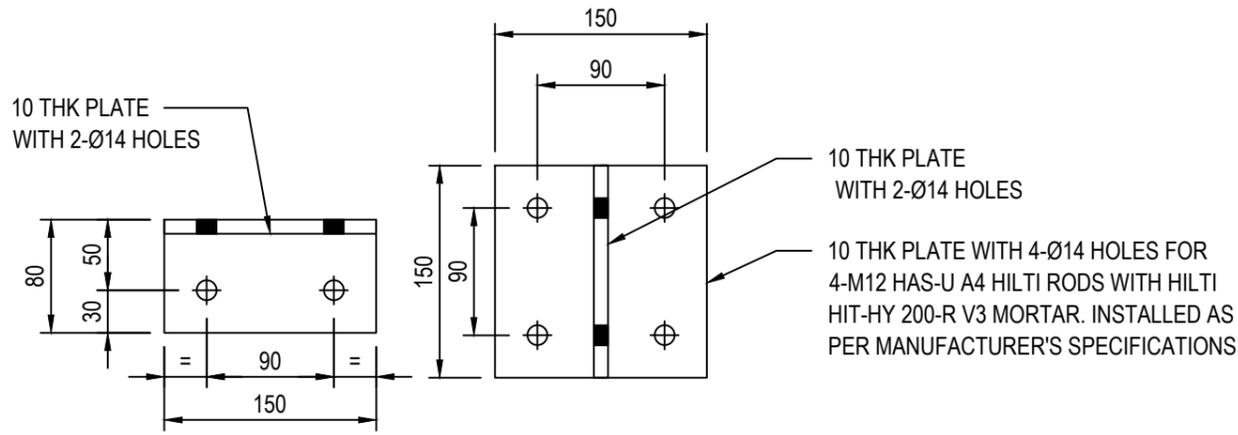
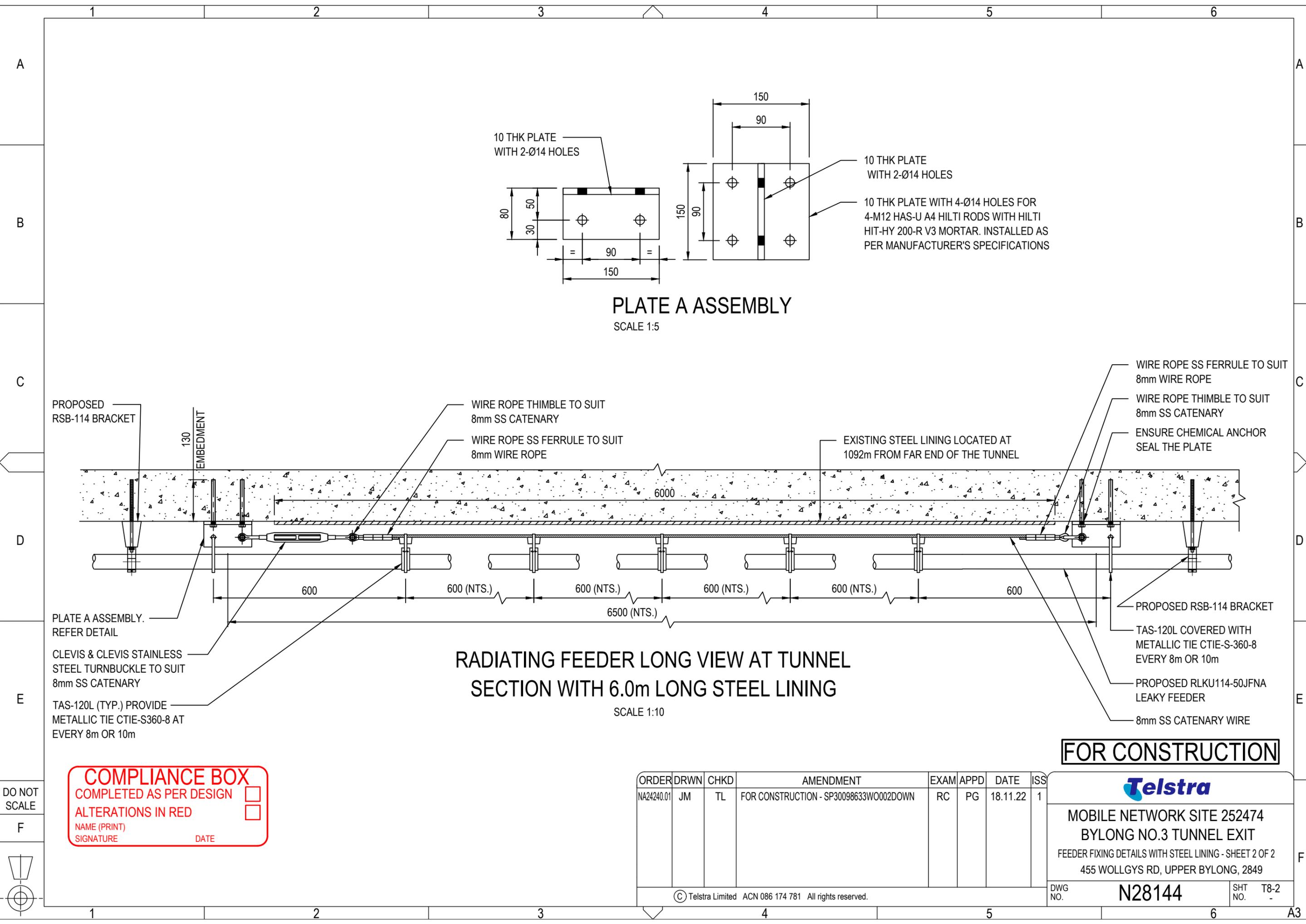
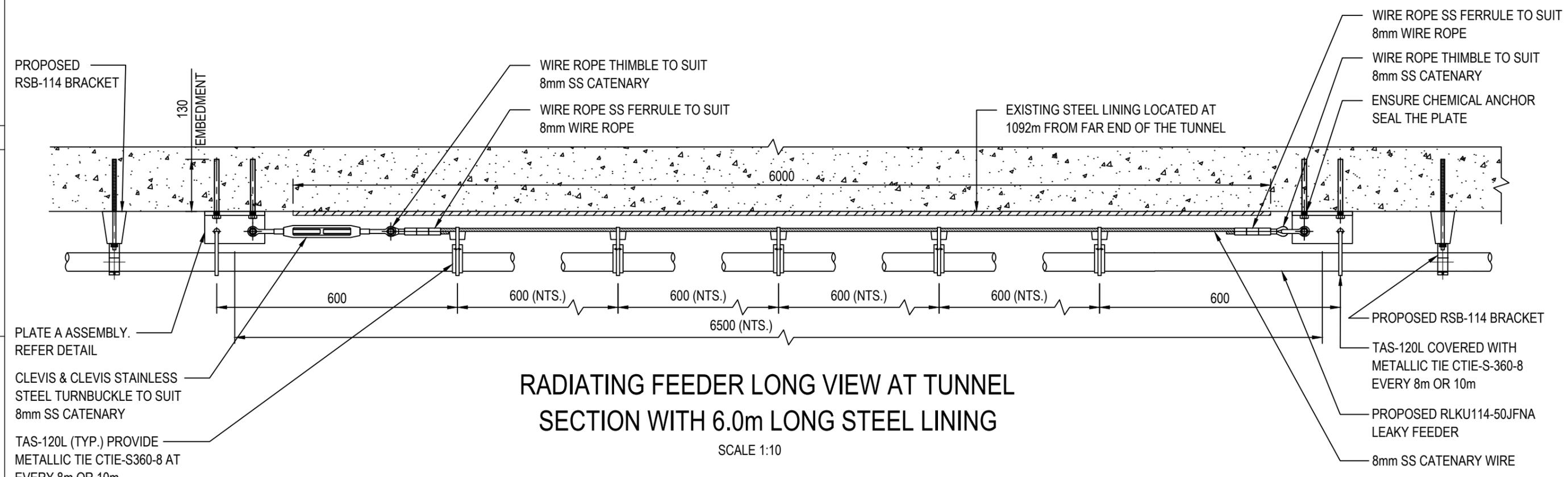


PLATE A ASSEMBLY
SCALE 1:5



RADIATING FEEDER LONG VIEW AT TUNNEL SECTION WITH 6.0m LONG STEEL LINING
SCALE 1:10

FOR CONSTRUCTION

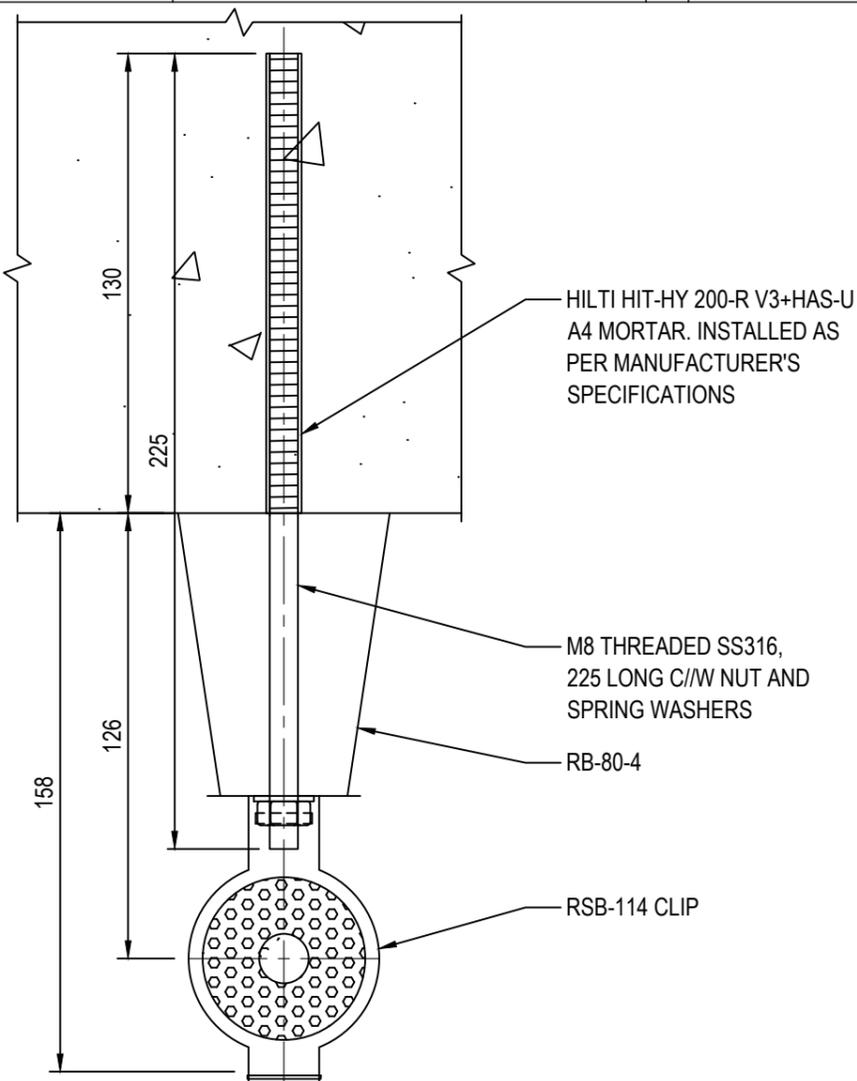
COMPLIANCE BOX
COMPLETED AS PER DESIGN
ALTERATIONS IN RED
NAME (PRINT) _____
SIGNATURE _____ DATE _____

ORDER	DRWN	CHKD	AMENDMENT	EXAM	APPD	DATE	ISS
NA24240.01	JM	TL	FOR CONSTRUCTION - SP30098633W0002DOWN	RC	PG	18.11.22	1

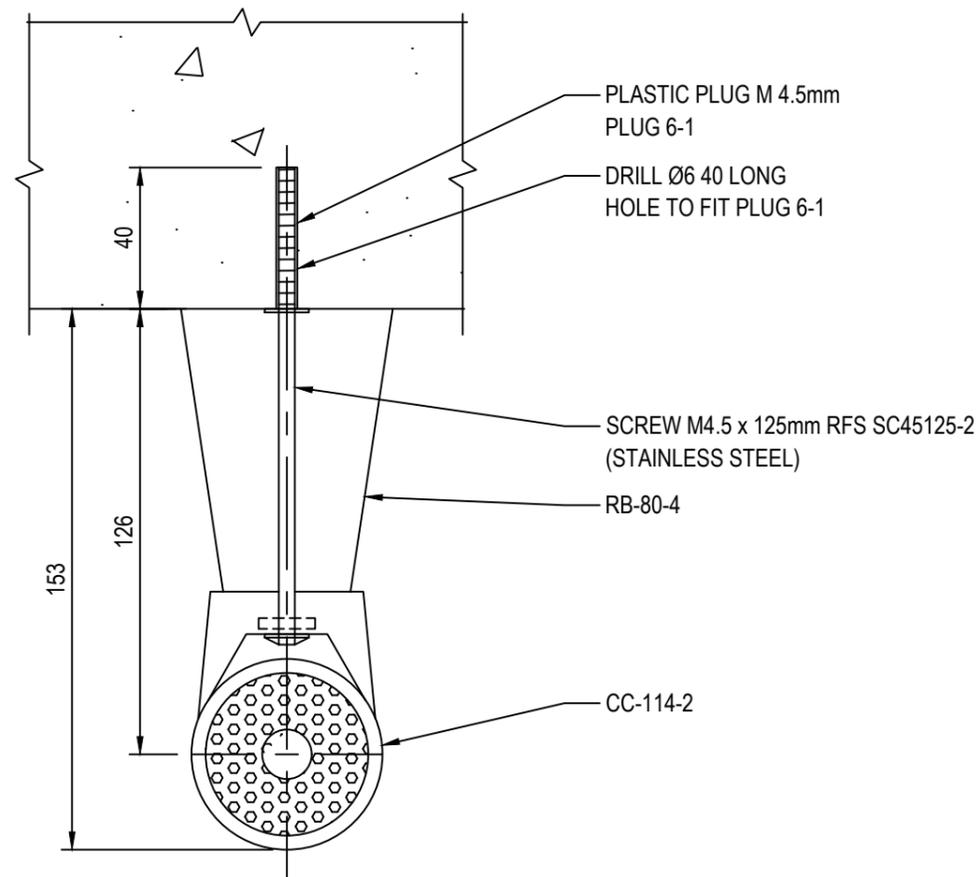
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MOBILE NETWORK SITE 252474
BYLONG NO.3 TUNNEL EXIT
FEEDER FIXING DETAILS WITH STEEL LINING - SHEET 2 OF 2
455 WOLLGYS RD, UPPER BYLONG, 2849

NOTES :

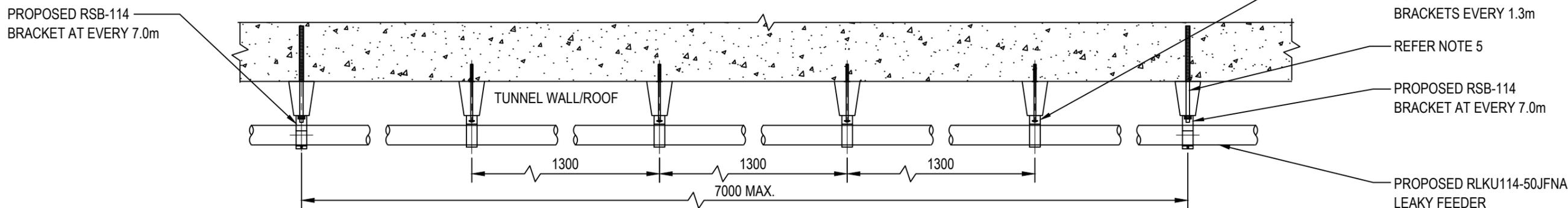
1. REFER TO TELSTRA STD DRG. 017866P05 FOR STANDARD CONSTRUCTION NOTES.
2. REFER TO SHEETS S0 & S0-1 FOR SITE-SPECIFIC NOTES.
3. CONTACT DOWNER ENGINEERING TEAM IF ALTERNATIVE EQUIVALENT PRODUCTS ARE PREFERRED BY THE INSTALLER. APPROVAL IS REQUIRED PRIOR TO INSTALLING ANY ALTERNATIVE PRODUCTS.
4. PROOF TEST RSB-114 & CC-114-2 ANCHORS
THE PROOF LOAD TESTING SPECIFICATIONS SHALL BE:
 - PROOF LOAD NP = 766N.
 - TEST ANCHOR SPACING: NOMINAL 40m INTERVALS ALONG THE LENGTH OF THE TUNNEL DOWN SIDES.
 DOWNER TO BE INFORMED IF ANY OF THE ANCHORS FAILS THE PROOF LOAD TESTING.
5. DESIGN TOLERANCES FOR THE FIXING BRACKET SET-OUT SHALL BE:
 - MAXIMUM DISTANCE BETWEEN CC-114-2 FIXING BRACKET: 1.3m
 - MAXIMUM DISTANCE BETWEEN RSB-114 BRACKET: 7.0m.
6. ASSUMPTION HAS BEEN MADE THAT EXISTING CONCRETE IS IN GOOD CONDITION. IF FOUND DAMAGE, PLEASE CONTACT DOWNER ENGINEERING TEAM.
7. THE EXISTING TUNNEL WALL IS ASSUMED TO BE LINED WITH 150mm THICK CONCRETE. CONFIRMATION SHALL BE OBTAINED BEFORE CONSTRUCTION. THIS FIXING DETAIL IS NOT APPLICABLE IF CONFIRMATION IS NOT OBTAINED OR CONCRETE LINING IS LESS THAN 150mm THK.
8. TEST DRILL AT EVERY 15m TO CONFIRM THICKNESS OF CONCRETE LINING ALONG TUNNEL WALL. CONFIRM WITH DOWNER STRUCTURAL ENGINEER IF TUNNEL WALL LINING IS LESS THAN 150mm THK BEFORE PROCEEDING.
9. FEEDERS TO BE PLACED ABOVE THE STEEL ARCH SUPPORTS (IN THE SAME WAY AS EXISTING FEEDERS) IN THE TUNNEL LOCATION WHERE STEEL ARCHES ARE EXPOSED.



RADIATING FEEDER FIXING DETAIL WITH RSB-114 CLIP (TYPICAL)
SCALE 1:2



RADIATING FEEDER FIXING DETAIL WITH CC-114-2 CLIP (TYPICAL)
SCALE 1:2



RADIATING FEEDER LONG VIEW
SCALE 1:10

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 FEEDER FIXING DETAILS
 455 WOLLGYS RD, UPPER BYLONG, 2849

DWG NO. **N28144**

SHT NO. T8-3