

SITE INFORMATION:

1. SITE ADDRESS

LOT 253 ON DP227428, 1302 BROOMEHILL-GNOWANGERUP ROAD, BROOMEHILL EAST, WA 6318.

2. GENERAL

THE CONTRACTOR SHALL COMPLY WITH ALL RELEVANT NBN CONSTRUCTION STANDARDS, CURRENT AUSTRALIAN STANDARDS AND SPECIFICATIONS.

3. SITE ACCESS

ENTERING FROM GREAT SOUTHERN HIGHWAY TO BROOMEHILL-GNOWANGERUP ROAD AND TRAVEL 14.5km (APPROX.) TO EAST SIDE. EXISTING ACCESS GATES IS AVAILABLE ACROSS FROM THE FLETCHER ROAD. AFTER ENTERING EXISTING ACCESS GATES TRAVEL BACK 650m TO REACH THE SITE.
CONTACT: PETER DEWAR 0428 241 344 strathhaddon@outlook.com

4. EQUIPMENT

NBN OUTDOOR CABINETS E6150 (1-OFF) AND B158 (2-OFF) ON CONCRETE SLAB.

5. STRUCTURE

NBN 60m HIGH STEEL LATTICE TOWER WITH TRIANGULAR HEADFRAME.

6. ANTENNA ACCESS

ANTENNA ACCESS VIA TOWER MOUNTED ACCESS LADDER WITH FALL ARREST OR EWP BY QUALIFIED PERSONNEL ONLY.

7. EXISTING SERVICES

THE CONTRACTOR SHALL IDENTIFY AND CONFIRM THE LOCATION OF ALL RELEVANT EXISTING SERVICES AS REQUIRED PRIOR TO THE COMMENCEMENT OF WORKS.

8. SITE HAZARDS

THE FOLLOWING HAZARDS ARE PRESENT ON SITE:

- ELECTRICAL CABLING AND/OR TRIP HAZARDS
- EXCAVATION WORKS
- CRANE LIFTING WORKS
- MANUAL HANDLING
- WORKING AT HEIGHT
- EME EXCLUSION ZONES OF ANTENNAS ON FACILITY

9. POWER SUPPLY

REFER TO DRGS C2 AND C3 FOR DETAILS.

10. SITE SIGNAGE REQUIREMENTS

NBN CONTRACTOR NEED TO INSTALL SITE SIGNAGE AS REQUIRED TO COMPLY WITH NBN STANDARD DRAWINGS NBN-STD-0025-SHTS 1 & 2

11. SCOPE OF WORK:

RF SCOPE

- NBN RF ANTENNAS (9-OFF) ON NEW MOUNTS. REFER TO DRGS. A1 AND A2 FOR DETAILS
- NBN TRIANGULAR HEADFRAME (1-OFF)
- NBN HYBRID FEEDER CABLES 6x12 (1-OFF), 9x18 (1-OFF)
- NBN CANISTERS (2-OFF)

TX SCOPE

KATANNING LINK (DISH A):

- NBN Ø1800 TRANSMISSION ANTENNA (1-OFF) WITH NBN RAU'S (4-OFF), TX SPLITTERS (2-OFF) MOUNTED BEHIND NEW NBN Ø1800 PARABOLIC ANTENNA ON TRIANGULAR HEADFRAME
- NBN FEEDER CABLES LDF1-50 (4-OFF)

GNOWANGERUP LINK (DISH B):

- NBN Ø1200 TRANSMISSION ANTENNA (1-OFF) WITH NBN RAU'S (4-OFF), TX SPLITTERS (2-OFF) BEHIND NEW NBN Ø1200 PARABOLIC ON FACE MOUNT
- NBN FEEDER CABLES LDF1-50 (4-OFF)

GROUND WORKS:

- NBN OUTDOOR CABINETS E6150 (1-OFF) AND B158 (2-OFF) ON CONCRETE SLAB
- NBN OUTDOOR CABINET STEEL SUPPORT FRAMES (3-OFF)
- NBN 300mm WIDE CABLE LADDER BETWEEN CABINETS
- NBN GPS ANTENNA (1-OFF) ON NEW CABLE TRAY

Client:



Client:

Client:

Project:

NATIONAL BROADBAND
NETWORK
SITE No: 6KAZ-6KAT-51-04
BROOMEHILL EAST
1302 BROOMEHILL-GNOWANGERUP ROAD
BROOMEHILL EAST
WA 6318

PRELIMINARY

01	07.05.25	PRELIMINARY	YL
Rev	Date	Revision Details	CAD



ServiceStream

DESIGNER: SP

CHECKED: PM

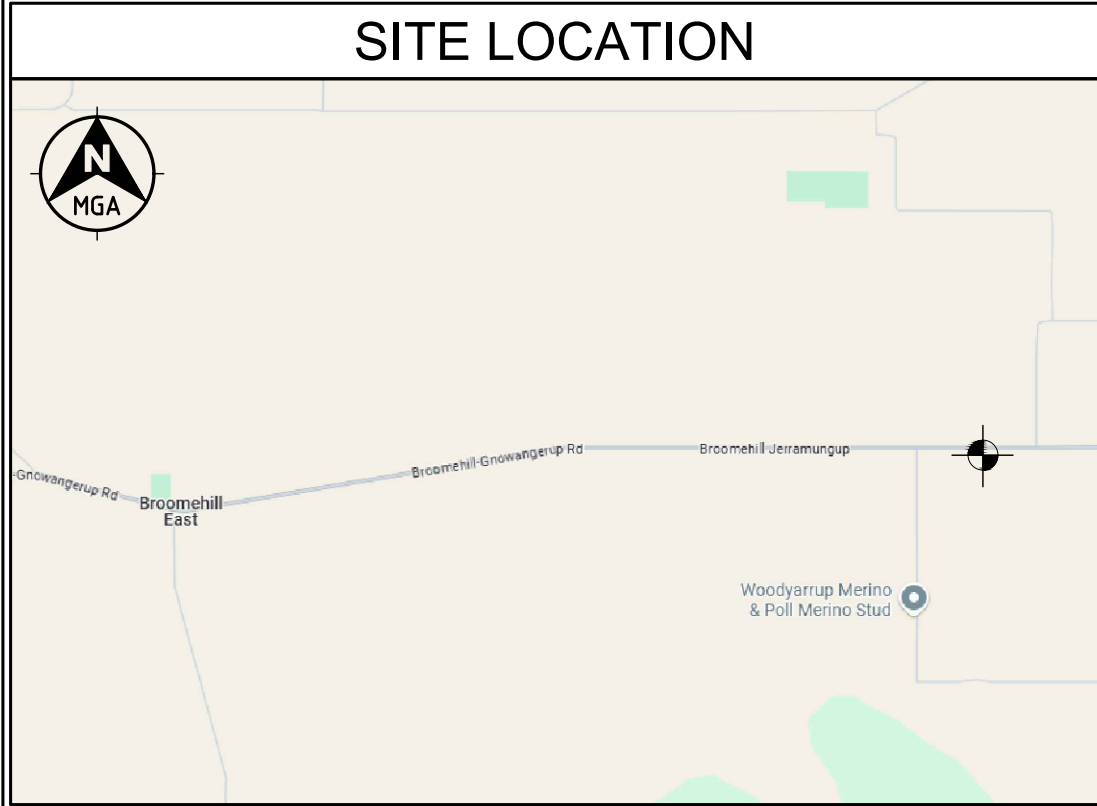
APPROVED: IZ

Drawing Title:

SITE SPECIFIC
NOTES

Drawing No.
6KAZ-6KAT-51-04-C1

Revision
01



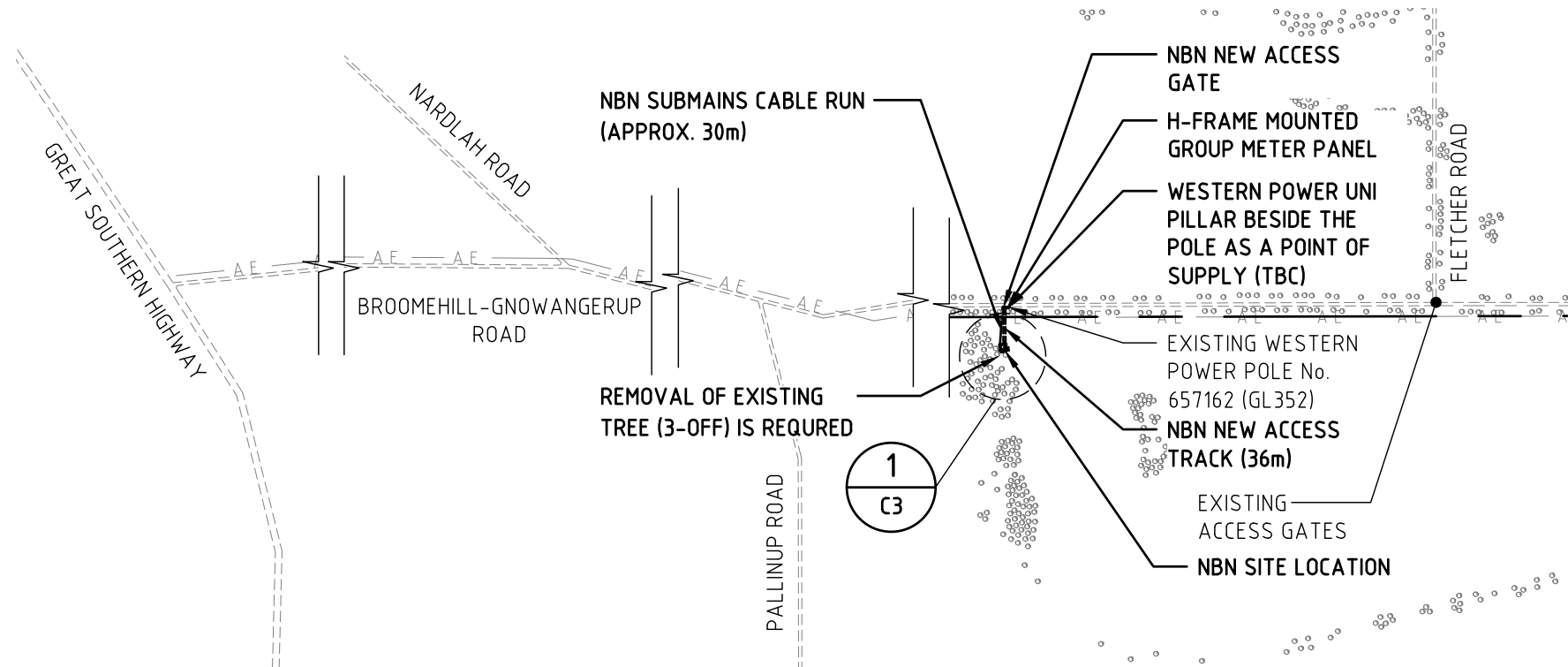
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SITE CO-ORDINATES	
LATTICE TOWER LOCATION	
DATUM: MGA(GDA 94)	ZONE: 50H
EASTING	574 921
NORTHING	6 250 681
LATITUDE	-33.881573°
LONGITUDE	117.810115°

LEGEND

— A E — A E — AERIAL ELECTRICAL ROUTE

DBYD JOB NO. 50125326
ENQUIRE DATE: 07/05/2025
CONTRACTOR TO REVALIDATE AT TIME OF CONSTRUCTION



OVERALL SITE PLAN
SCALE 1:10000

Client:

Client:

Client:

Project:
NATIONAL BROADBAND NETWORK
SITE No: 6KAZ-6KAT-51-04
BROOMEHILL EAST
1302 BROOMEHILL-GNOWANGERUP ROAD
BROOMEHILL EAST
WA 6318

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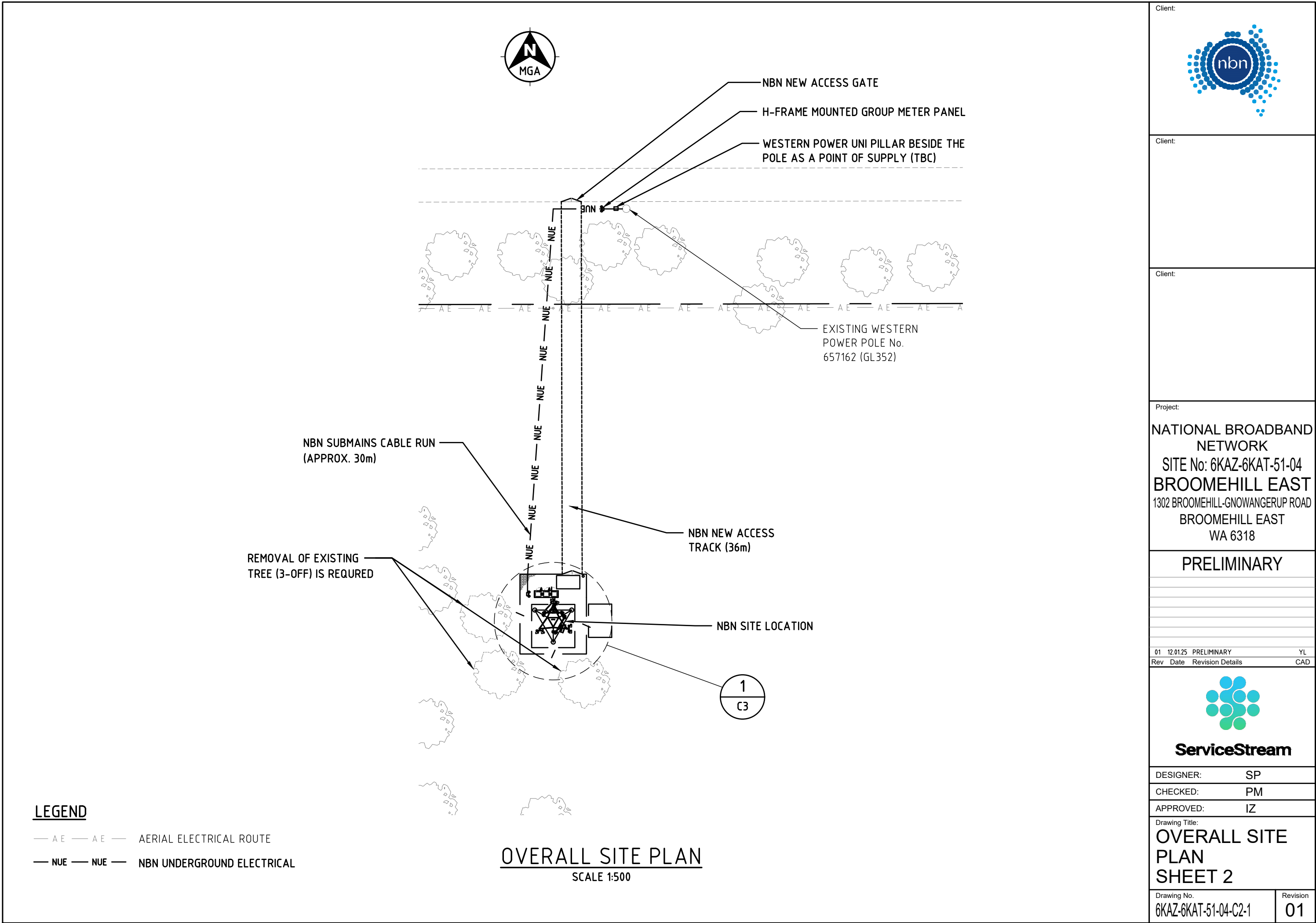
DESIGNER: SP

CHECKED: PM

APPROVED: IZ

Drawing Title:
OVERALL SITE PLAN

Drawing No. 6KAZ-6KAT-51-04-C2	Revision 01
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Client:



Client:

Client:

Project:

NATIONAL BROADBAND NETWORK

SITE No: 6KAZ-6KAT-51-04

BROOMEHILL EAST

1302 BROOMEHILL-GNOWANGERUP ROAD

BROOMEHILL EAST

WA 6318

PRELIMINARY

01	12.01.25	PRELIMINARY	YL
Rev	Date	Revision Details	CAD



ServiceStream

DESIGNER: SP

CHECKED: PM

APPROVED: IZ

Drawing Title:

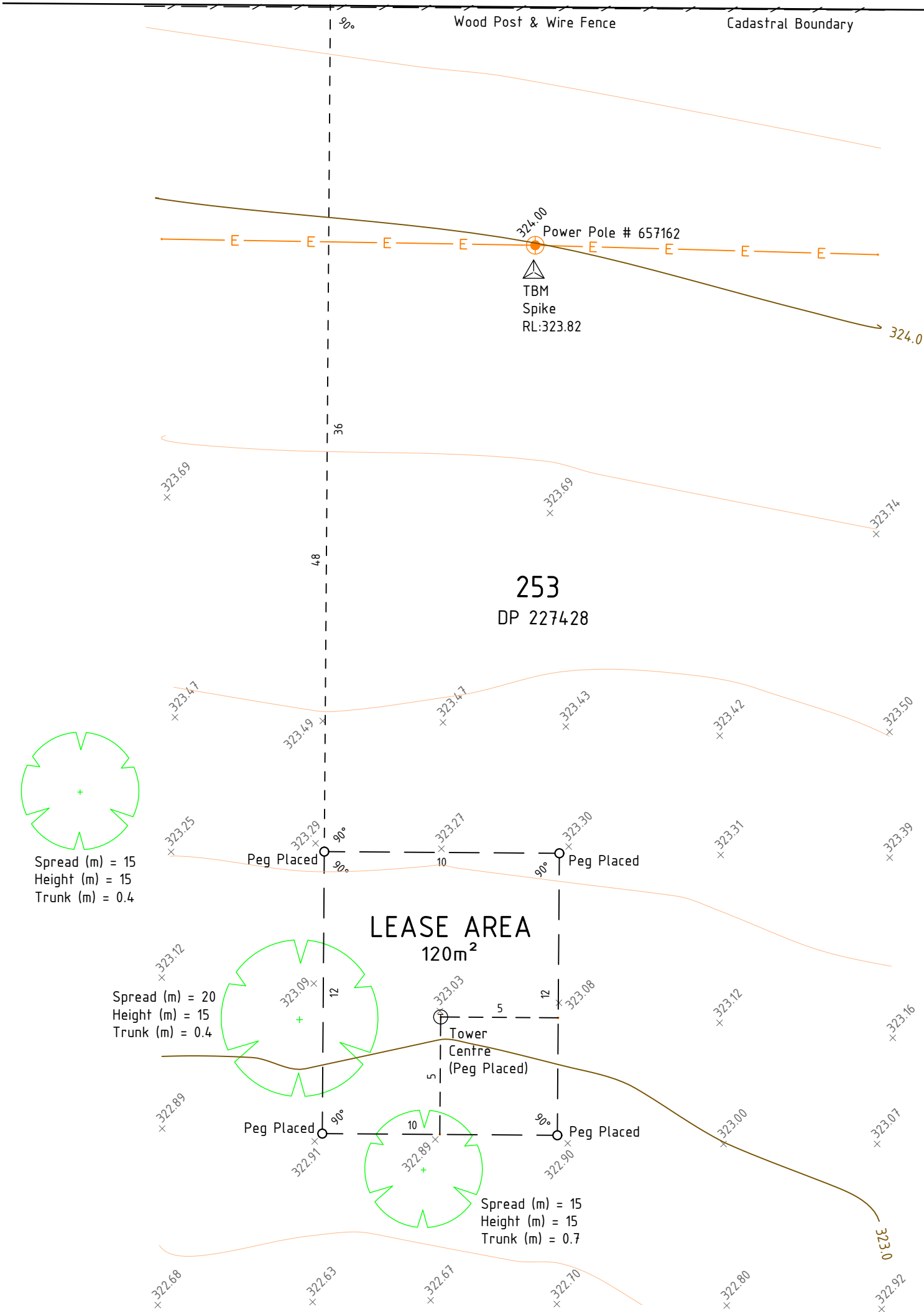
OVERALL SITE PLAN

SHEET 2

Drawing No.	Revision
6KAZ-6KAT-51-04-C2-1	01

BROOMEHILL - GNOWANGERUP ROAD

613.93 TO FLETCHER ROAD →



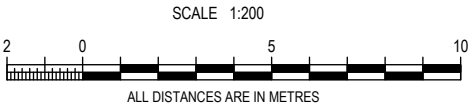
NOTES

This plan has been prepared for the client and should not be used for any other purpose unless authorised by VERIS.

This survey is on GROUND co-ordinates based upon MGA94 Zone 50 values of the Tower Centre.

Prior to the commencement of any work, relevant authorities should be contacted for the location of underground services.
Due to overwriting some levels may be switched off for this plot only.
Levels are based on AHD.

This note is an integral part of this plan.



LEGEND	
COMMUNICATIONS	
	TOWER CENTRE
ELECTRICAL	
	OVERHEAD POWER LINES
	POWER POLE
STRUCTURE	
	FENCE
SURVEY	
	LEASE BOUNDARY
	CADASTRAL BOUNDARY
	SURVEY PEG
	TBM
TOPOGRAPHY	
	MAJOR CONTOUR
	MINOR CONTOUR
	NATURAL SURFACE (SPOT HEIGHT)
	VEGETATION TREE

00	07/05/25	Original	WB	KWT	PRJ
Rev.	Date	Description	Surveyor	Drawn	Approved

Client: Service Stream

Surveyed By: WB Survey Date: 10/04/2025
Drawn By: KWT Drawn Date: 07/05/2025
Approved By: PRJ
Scale (A3): 1:200
Hor Datum: See MGA Note
Vert Datum: AHD_(Based_on_AUS POS)



veris

WESTERN AUSTRALIA www.veris.com.au
T 08 6241 3333 veris.wa@veris.com.au

Digital Ground Survey
Lot 253 on DP227428
Broomehill - Gnowangerup Road
BROOMEHILL EAST

Job No 637485-12 Plan No 016-00 Rev 00
Sheet 1 of 1





NBN SUBMAINS CABLE RUN
(APPROX. 30m)

75mm SINGLE SIZED GRAVEL OVER
WEED MAT WITH TIMBER EDGE

TEMPORARY GENERATOR AREA (3.5m x 2.0m)

NBN OUTDOOR CABINET B158 (2-OFF).
REFER TO DRG. NBN-STD-0016-SHT 5
FOR DETAILS

NBN METER BOX. REFER TO DRG.
NBN-STD-0022 FOR DETAILS

NBN CONCRETE SLAB FOR ODU. REFER
TO NBN-STD-0034-SHT 4 FOR DETAILS

NBN 300mm CABLE LADDER BETWEEN CABINETS

NBN OUTDOOR CABINET E6150. REFER
TO DRG. NBN-STD-0016-SHT 4 FOR
DETAILS

NBN 300mm WIDE CABLE LADDER WITH
(1-OFF) CABLE LADDER SUPPORT POST.
REFER TO DRG. NBN-STD-0014 FOR DETAILS

NBN GPS UNIT (1-OFF). FIXED TO THE
CABLE TRAY SUPPORT POST. REFER TO
DRG. NBN-STD-0036 FOR DETAILS

NBN TRANSMISSION ANTENNA (TO KATANNING)

NBN COMPOUND SECURITY FENCE
WITH ACCESS GATE. REFER TO DRG.
NBN-STD-0012 FOR DETAILS

NBN RF ANTENNAS (9-OFF)

NBN 60m HIGH STEEL LATTICE TOWER

NBN LATTICE TOWER FOUNDATION
(6.5m x 6.5m) INDICATIVE ONLY

LEGEND

— A E — A E — AERIAL ELECTRICAL
— NUE — NUE — NBN UNDERGROUND ELECTRICAL

10000
NBN COMPOUND AREA

NBN SITE ACCESS ROUTE

2500

4250

3600

1220

1220

580

1000

1000

12000
NBN COMPOUND AREA

5000
C/L TOWER

CRANE AREA

NBN TRANSMISSION
ANTENNA
(TO GNOWANGERUP)

1750

5000
C/L TOWER

DETAIL
SCALE 1:50

1
C2

NOTE:

1. REFER A1 & A2 FOR RF, TRANSMISSION
AND GPS ANTENNA DETAILS.

Client:



Client:

Client:

Project:

NATIONAL BROADBAND
NETWORK
SITE No: 6KAZ-6KAT-51-04
BROOMEHILL EAST
1302 BROOMEHILL-GNOWANGERUP ROAD
BROOMEHILL EAST
WA 6318

PRELIMINARY

01	07.05.25	PRELIMINARY	YL
Rev	Date	Revision Details	CAD



ServiceStream

DESIGNER: SP
CHECKED: PM
APPROVED: IZ

Drawing Title:
**SITE SETOUT
PLAN**

Drawing No.
6KAZ-6KAT-51-04-C3

Revision
01

1. REFER A1 AND A2 FOR RF, TRANSMISSION AND GPS ANTENNA DETAILS.
2. NBN CONTRACTOR TO INSTALL ODU STEEL SUPPORT FRAME FOR CABINETS.



Client:

**NATIONAL BROADBAND
NETWORK**
SITE No: 6KAZ-6KAT-51-04
BROOMEHILL EAST
1302 BROOMEHILL-GNOWANGERUP ROAD
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WA 6318

PRELIMINARY

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Rev	Date	Revision Details	CAD



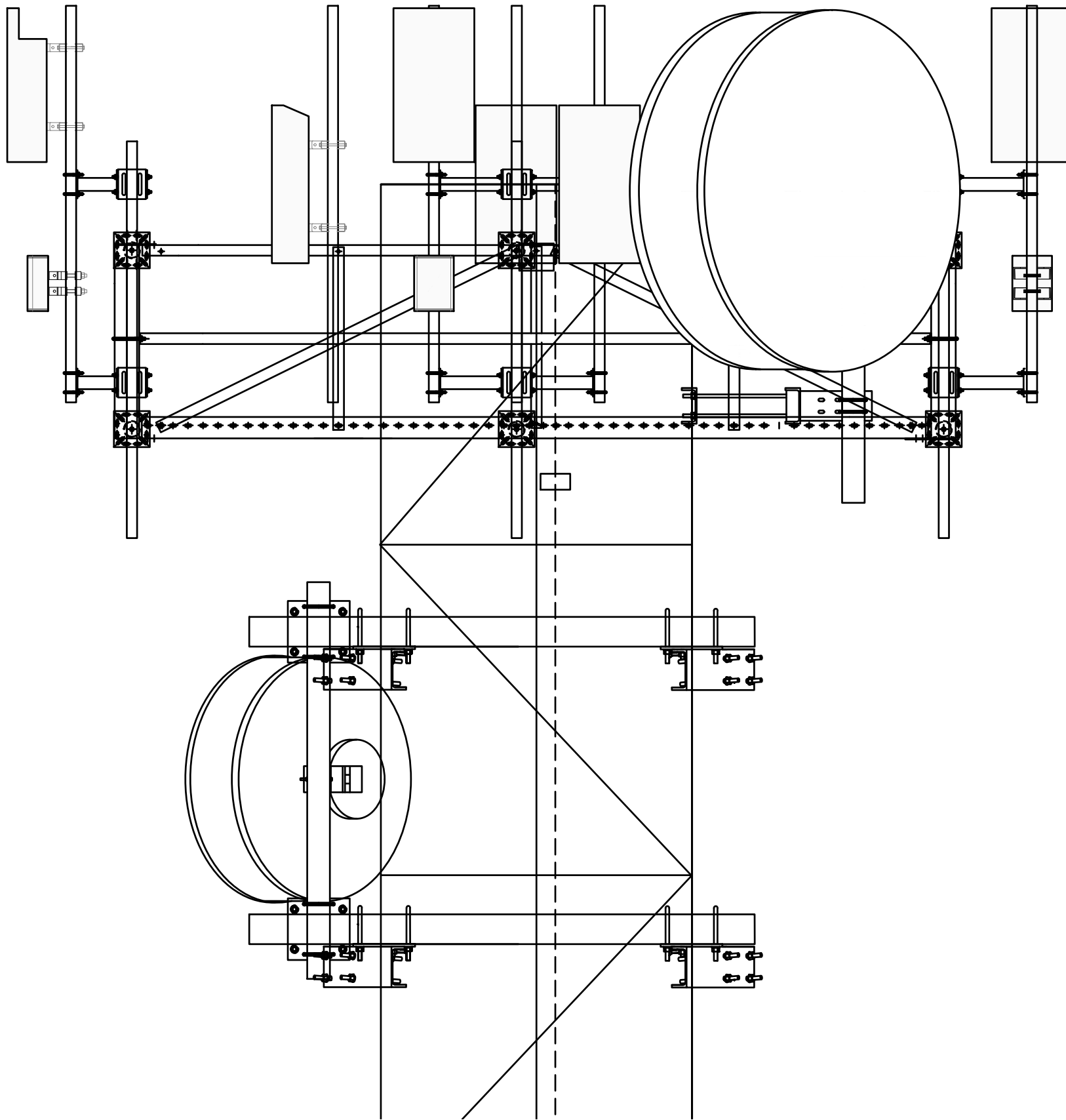
ServiceStream

DESIGNER:	SP
CHECKED:	PM
APPROVED:	IZ

Drawing Title:
**SITE ELEVATION
AND DETAILS**

Drawing No.
6KAZ-6KAT-51-04-C4

01



NORTH ELEVATION
SCALE 1:25

▼ EL 60.5m
C/L NBN RF ANTENNAS (3-OFF)

▼ EL 60.0m
C/L NBN RF ANTENNAS (3-OFF)
C/L NBN TRANSMISSION ANTENNA (TO KATANNING)
C/L NBN RAU'S (4-OFF), TX SPLITTERS (2-OFF)

▼ EL 59.5m
C/L NBN RF ANTENNAS (3-OFF)

▼ EL 58.5m
C/L NBN CANISTERS (2-OFF)

▼ EL 57.0m
C/L NBN TRANSMISSION ANTENNA (TO GNOWANGERUP)
C/L NBN RAU'S (4-OFF), TX SPLITTERS (2-OFF)

Client:



Client:

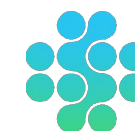
Client:

Project:

NATIONAL BROADBAND
NETWORK
SITE No: 6KAZ-6KAT-51-04
BROOMEHILL EAST
1302 BROOMEHILL-GNOWANGERUP ROAD
BROOMEHILL EAST
WA 6318

PRELIMINARY

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Rev	Date	Revision Details	CAD



ServiceStream

DESIGNER: SP

CHECKED: PM

APPROVED: IZ

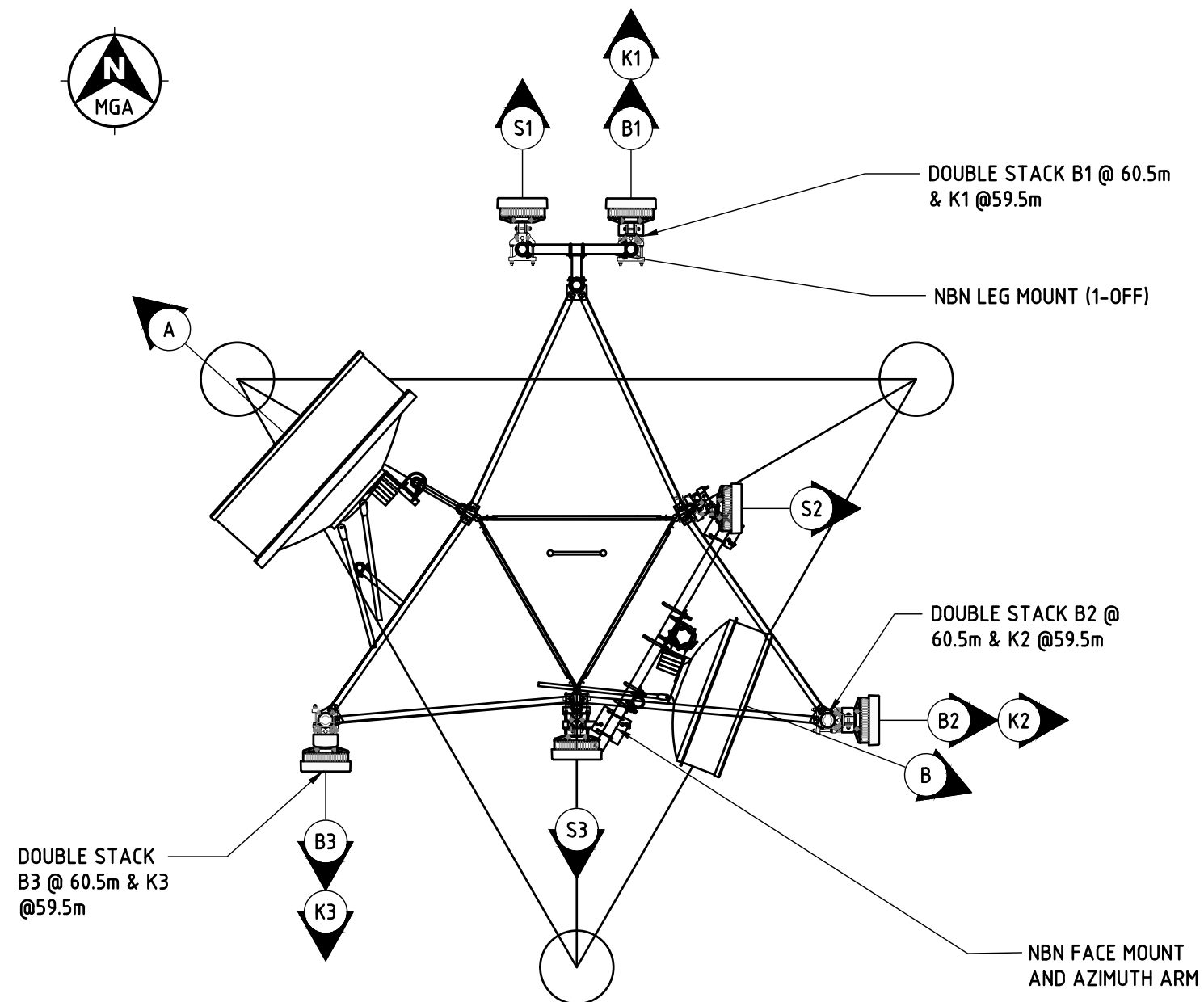
Drawing Title:

**STRUCTURAL
EQUIPMENT DETAIL
EXPANDED VIEW**

Drawing No.
6KAZ-6KAT-51-04-C4-1

Revision
01

NBN RF ANTENNA CONFIGURATION - 3000MHz & 3400MHz																					Client:		
SECTOR	RF ANTENNA DETAIL								MAIN FEEDER DETAIL					RRU DETAIL					RF TAIL		RET CABLE		
	TYPE	DIMENSION HxWxD	C/L HEIGHT	AZIMUTH (TN)	E-TILT		MECH TILT	ANTENNA ACTION REQUIRED	TYPE	OVERALL LENGTH	CANISTER HEIGHT	CANISTER TO RRU LENGTH	FEEDER ACTION REQUIRED	TYPE	LOCATION	C/L HEIGHT	ANTENNA PORT	RRU ACTION REQUIRED	TYPE	LENGTH	LENGTH		
S1	ERICSSON AIR6419	929x506x208	60m	0°	P1&P2	3°	0°	INSTALL	H&S HYBRID MKII 9x18 F1	70m	58.5m	4m	INSTALL										
B1	ERICSSON AIR3219	776x408x199	60.5m	0°	P1&P2	3°	0°	INSTALL				4m	INSTALL										
S2	ERICSSON AIR6419	929x506x208	60m	90°	P1&P2	3°	0°	INSTALL				4m	INSTALL										
B2	ERICSSON AIR3219	776x408x199	60.5m	90°	P1&P2	3°	0°	INSTALL				4m	INSTALL										
S3	ERICSSON AIR6419	929x506x208	60m	180°	P1&P2	4°	0°	INSTALL	H&S HYBRID MKII 6x12 F2	70m	58.5m	4m	INSTALL										
B3	ERICSSON AIR3219	776x408x199	60.5m	180°	P1&P2	4°	0°	INSTALL				4m	INSTALL										
NBN RF ANTENNA CONFIGURATION - 2600MHz																					Client:		
SECTOR	RF ANTENNA DETAIL								MAIN FEEDER DETAIL					RRU DETAIL					RF TAIL		RET CABLE		
	TYPE	DIMENSION HxWxD	C/L HEIGHT	AZIMUTH (TN)	E-TILT		MECH TILT	ANTENNA ACTION REQUIRED	TYPE	OVERALL LENGTH	CANISTER HEIGHT	CANISTER TO RRU LENGTH	FEEDER ACTION REQUIRED	TYPE	LOCATION	C/L HEIGHT	ANTENNA PORT	RRU ACTION REQUIRED	TYPE	LENGTH	LENGTH		
K1	ERICSSON AIR5322 N257	290x200x136	59.5m	0°	P1&P2	0°	5.5°	INSTALL	H&S HYBRID MKII 9x18 F1	70m	58.5m	4m	INSTALL										
K2	ERICSSON AIR5322 N257	290x200x136	59.5m	90°	P1&P2	0°	5.5°	INSTALL	H&S HYBRID MKII 6x12 F2	70m	58.5m	4m	INSTALL										
K3	ERICSSON AIR5322 N257	290x200x136	59.5m	180°	P1&P2	0°	5.5°	INSTALL				4m	INSTALL										
NBN TRANSMISSION AND GPS ANTENNA CONFIGURATION																					Project:		
SECTOR	ANTENNA DETAIL						RAU DETAIL			MAIN FEEDER DETAIL			TX SPLITTERS DETAILS		NATIONAL BROADBAND NETWORK SITE No: 6KAZ-6KAT-51-04 BROOMEHILL EAST 1302 BROOMEHILL-GNOWANGERUP ROAD BROOMEHILL EAST WA 6318								
	TYPE	DIMENSION	C/L HEIGHT	AZIMUTH (TN)	DESTINATION	ANTENNA ACTION REQUIRED	COUNT	TYPE	ACTION	TYPE	OVERALL LENGTH	ACTION	COUNT	ACTION									
A	PARABOLIC ANT3 A 1.8 6 HPX	ø1800	60m	312°	KATANNING	INSTALL	4	ML6365	INSTALL	LDF1-50	4 x 70m	INSTALL	2	INSTALL									
B	PARABOLIC ANT3 A 1.2 7/8 HPX	ø1200	57m	111°	GNOWANGERUP	INSTALL	4	ML6365	INSTALL	LDF1-50	4 x 70m	INSTALL	2	INSTALL									
GPS	KRE 101 2395/2	ø72 x 77	2.5m	-	-	INSTALL	-	-	-	LDF1-50	8m	INSTALL	-	-									
01 07.05.25 PRELIMINARY YL Rev Date Revision Details CAD																							
 ServiceStream																							
DESIGNER: SP																							
CHECKED: PM																							
APPROVED: IZ																							
Drawing Title: NBN ANTENNA CONFIGURATION																							
Drawing No. 6KAZ-6KAT-51-04-A1 Revision 01																							



NBN ANTENNA SETOUT PLAN

SCALE 1:50

Client:



Client:

Client:

Project:

NATIONAL BROADBAND
NETWORK
SITE No: 6KAZ-6KAT-51-04
BROOMEHILL EAST
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ServiceStream

DESIGNER: SP

CHECKED: PM

APPROVED: IZ

Drawing Title:

**NBN ANTENNA
SETOUT PLAN**

Drawing No.
6KAZ-6KAT-51-04-A1

Revision
01