

DATE OF ISSUE

DRAWING PACKAGE VERSION

13.09.24

1

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SITE No: 2NBR-51-01-NRBI
NARRABRI

57 GUEST STREET
NARRABRI
NSW 2390

RFNSA No: TBC



Australia's
broadband
network

PROJECT SUMMARY

- NBN INSTALLATION (NBN-2TMZ-2NBR-5103)
- INSTALL 40m Le-BLANC MONOPOLE
 - INSTALL NBN OUTDOOR CABINET (3-OFF) ON NEW 1m ELEVATED PLATFORM
 - INSTALL RF 2.3GHz, 26GHz & 3.4HGz
 - INSTALL NEW TRANSMISSION ANTENNA

Client:



Client:

Client:

Project:

NATIONAL BROADBAND
NETWORK
SITE No: 2NBR-51-01-NRBI
NARRABRI
57 GUEST STREET
NARRABRI
NSW 2390

PRELIMINARY

01 13.09.24 PRELIMINARY SM
Rev Date Revision Details CAD

VISIONSTREAM AUSTRALIA PTY LTD
167 Cremorne Street
Cremorne, VIC 3121
Website: <https://www.visionstream.com/>
AU phone number: 1300 VENTIA (836 842)
NZ phone number: 0508 VENTIA (836 842)

DESIGNER: BH

CHECKED: ML

APPROVED: SM

Drawing Title:
COVER SHEET

Drawing No. 2NBR-51-01-NRBI-T1
Revision 01

DATE OF ISSUE	13.09.24						
DRAWING PACKAGE VERSION	1						

NBN STANDARD DOCUMENTS

NBN-STD-0001	STANDARD CONSTRUCTION NOTES	E							
NBN-STD-0003	TYPICAL GROUND LAYOUT MONOPOLE	-							
NBN-STD-0004	GENERIC MONOPOLE AND LATTICE TOWER LOADING CONDITIONS	-							
NBN-STD-0006	TYPICAL LATTICE TOWER FOUNDATION	-							
NBN-STD-0012	STANDARD COMPOUND FENCING DETAILS	F							
NBN-STD-0013	STANDARD CABLE LADDER WATERFALL DETAILS	-							
NBN-STD-0014	STANDARD ELEVATED CABLE LADDER SUPPORT POST DETAILS	F							
NBN-STD-0016-SHT 4	ENCLOSURE E6150 ODC BASE FRAME DETAILS	-							
NBN-STD-0016-SHT 5	B158 ODC BASE FRAME DETAILS	-							
NBN-STD-0019	STANDARD SITE EARTH LATTICE TOWER	-							
NBN-STD-0021-SHT 1	STANDARD EARTH BAR DETAILS	-							
NBN-STD-0021-SHT 2	SEB ALLOCATION TABLE - SHEET 1	-							
NBN-STD-0021-SHT 3	SEB ALLOCATION TABLE - SHEET 2	-							
NBN-STD-0022	STANDARD METERBOX H-FRAME DETAILS	-							
NBN-STD-0025-SHT 1	STANDARD SIGNAGE DETAILS SHEET 1	-							
NBN-STD-0025-SHT 2	STANDARD SIGNAGE DETAILS SHEET 2	B							
NBN-STD-0027-SHT 4	CHANGEOVER SWITCH 2 PHASE CONNECTION	-							
NBN-STD-0027-SHT 5	PDB LAYOUT	-							
NBN-STD-0027-SHT 15	STANDARD PDB/METERING SCHEMATIC - E6150 & VSAT	-							
NBN-STD-0028	STANDARD ACCESS TRACK DETAILS	C							
NBN-STD-0030-SHT 11	STANDARD NBN ANTENNA EME PATTERNS AIR3219 B42 (BROADCAST ENVELOPE)	A							
NBN-STD-0030-SHT 12	STANDARD NBN ANTENNA EME PATTERNS AIR3219 B42 (TRAFFIC ENVELOPE)	A							
NBN-STD-0030-SHT 15	STANDARD NBN ANTENNA EME PATTERNS AIR5322 N257	A							
NBN-STD-0030-SHT 17	STANDARD NBN ANTENNA EME PATTERNS AIR6419 B40	A							
NBN-STD-0034-SHT 4	STANDARD ODC SLAB 3.6m x 1.0m	-							

REFERENCE DOCUMENTS

[illegible]

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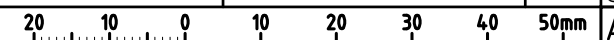
DESIGNER:	BH
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CHECKED:	ML
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APPROVED: SM

Drawing Title:
**NBN STANDARD
DOCUMENTS**

Drawing No.	Revision
2NBR-51-01-NRBI-T2	01



1. **SITE ADDRESS:**
LOT500 DP1300382, LOT399DP754944, 57 GUEST STREET, NARRABRI, NSW 2390.
SITE COORDINATES LATITUDE: -30.337018°, LONGITUDE: 149.784221°
2. **GENERAL:**
THE CONTRACTOR SHALL COMPLY WITH ALL RELEVANT NBN CONSTRUCTION STANDARDS, CURRENT AUSTRALIAN STANDARDS AND SPECIFICATIONS.
3. **SITE ACCESS:**
SITE IS LOCATED IN THE BACK OF THE LOT BEHIND HORSE SHEDS. ACCESS VIA LARGE GATE 30m SOUTH OF HORSE STABLES.
4. **EQUIPMENT:**
NEW OUTDOOR CABINET E6150 (1-OFF) & B158 (2-OFF) TO BE INSTALLED WITHIN NBN LEASE AREAS.
5. **STRUCTURE:**
MONOPOLE - 40m.
6. **ANTENNA ACCESS:**
ANTENNA ACCESS VIA STEP PEGS AND FALL ARREST SYSTEM OR EWP (BY QUALIFIED RIGGER PERSONNEL ONLY.)
7. **EXISTING SERVICES:**
THE CONTRACTOR IDENTIFY AND CONFIRM THE LOCATION OF ALL RELEVANT EXISTING SERVICES AS REQUIRED PRIOR TO THE COMMENCEMENT OF WORKS.
8. **EXISTING SITE HAZARDS:**
THE FOLLOWING HAZARDS ARE PRESENT ON SITE:
- EXISTING UNDERGROUND SERVICES
- HORSES IN Paddock
- O/H POWER LINE
9. **ELECTRICAL SUPPLY:**
REFER TO DRAWING C2, C3 FOR ELECTRICAL DETAILS.
10. **TRANSMISSION LINK & RF CONFIGURATION:**
REFER TO ANTENNA CONFIGURATION ON DRAWING A1 FOR DETAILS.

11. **SITE SPECIFIC INFORMATION:**
NBN CONTRACTORS TO:
- CONDUCT U/G SERVICE SEARCH PRIOR TO EXCAVATION
- SUPPLY AND INSTALL UNDERGROUND POWER ROUTE TO NBN CABINET
- ALL TRENCHING DUE TO NBN UNDERGROUND POWER ARE TO BE REINSTATED AND MAKE GOOD
- SUPPLY AND INSTALL NBN CABLE TRAY
- SUPPLY AND INSTALL EQUIPMENT EARTHING
- SUPPLY AND INSTALL NBN PDB AND EQUIPMENT CABINETS
- SUPPLY AND INSTALL NBN SECURITY FENCING AROUND COMPOUND
- SUPPLY AND INSTALL ACCESS TRACK FROM MAIN ROAD
- PERFORM FILL AND BATTERING OF GROUND AS REQUIRED TO SUITE CONTOUR OF SITE
- SUPPLY AND INSTALL 1m ELEVATED PLATFORM WITH SUPPORTING PIERS

12. **MONOPOLE WIND LOAD PARAMETERS:**

SITE TOPOGRAPHICAL DATA		
REGION	TERRAIN CATEGORY	TOPOGRAPHIC MULTIPLIER
TBC	TBC	TBC

13. **SITE SIGNAGE REQUIREMENTS:**
NBN EQUIPMENT SIGNAGE SHALL COMPLY WITH NBN RAN DOCUMENT AND NBN STANDARD DRAWING NBN-STD-0025.

14. **SCOPE OF WORK:**
RF SCOPE:
- INSTALL NEW NBN PANEL ANTENNA (11-OFF) ON NEW MOUNT.
- INSTALL NEW NBN 9/18 CORE HYBRID CABLE (2-OFF) AND CANISTER (2-OFF) IN NEW CABLE ROUTE.

- TRANSMISSION SCOPE:**
NARRABRI EAST
- INSTALL NEW NBN MOUNT (1-OFF)
- INSTALL NEW NBN Ø600 PARABOLIC ANTENNA (1-OFF) ON NEW MOUNT
- INSTALL NEW NBN RAU (2-OFF) ON NEW MOUNTS
- INSTALL NEW NBN FEEDER CABLE (2-OFF) IN NEW CABLE ROUTE

- GROUND SCOPE:**
- INSTALL NEW NBN RP6651 (3-OFF)
- INSTALL NEW 1m ELEVATED PLATFORM
- INSTALL NEW NBN E6150 (1-OFF)
- INSTALL NEW NBN PDB
- INSTALL NEW NBN OUTDOOR CABINET B158 (2-OFF)
- INSTALL GPS ANTENNA (1-OFF) AND FEEDER CABLE (1-OFF)

- EARTHING SCOPE:**
- ALL NEW EQUIPMENT TO BE EARTHED IN ACCORDANCE WITH, NBN-STD-0020-SH2, NBN-STD-0021-SH1,NBN-STD-0021-SH3.

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DESIGNER: BH

CHECKED: ML

APPROVED: SM

Drawing Title:
SITE SPECIFIC NOTES

Drawing No.
2NBR-51-01-NRBI-C1

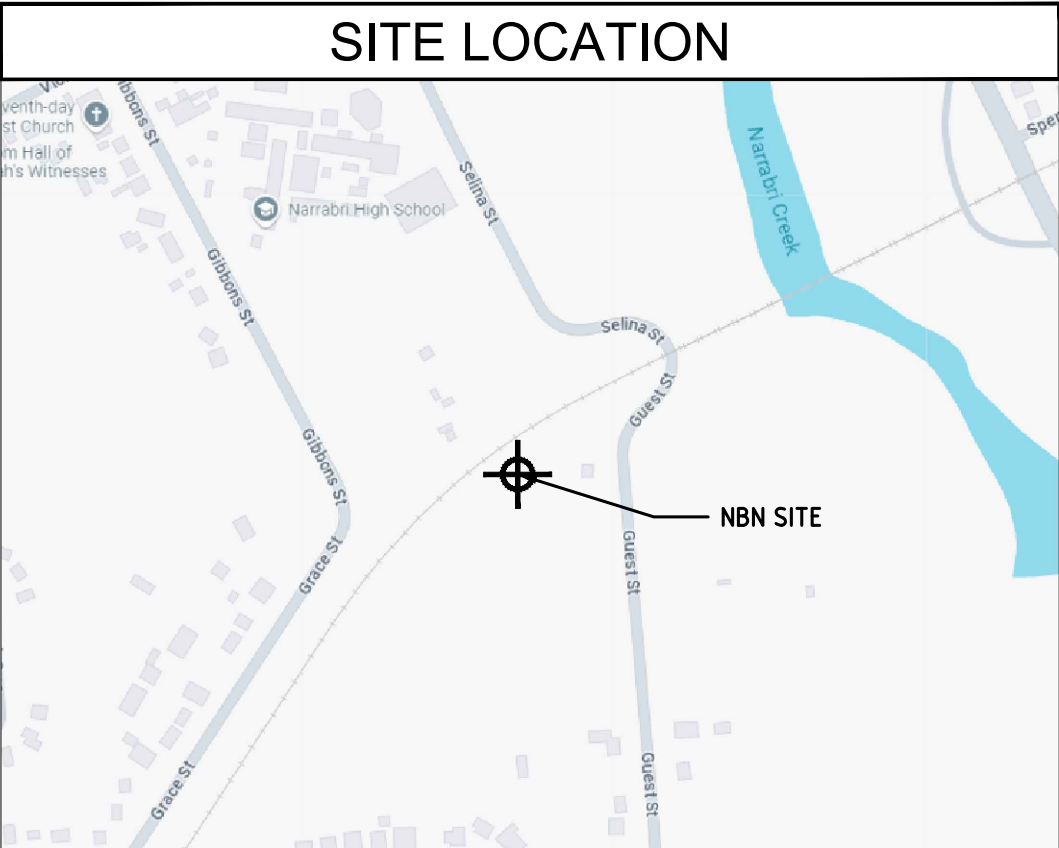
Revision
01

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A3

SITE LOCATION



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SITE CO-ORDINATES

LATTICE TOWER LOCATION

DATUM: MGA(GDA 94)	ZONE: 55
EASTING	767 671
NORTHING	6 640 582
LATITUDE	-30.337018°
LONGITUDE	149.784221°

DBYD Job No. 37457422
Enquiry Date: 27/08/24
CONTRACTOR TO REVALIDATE
AT TIME OF CONSTRUCTION!

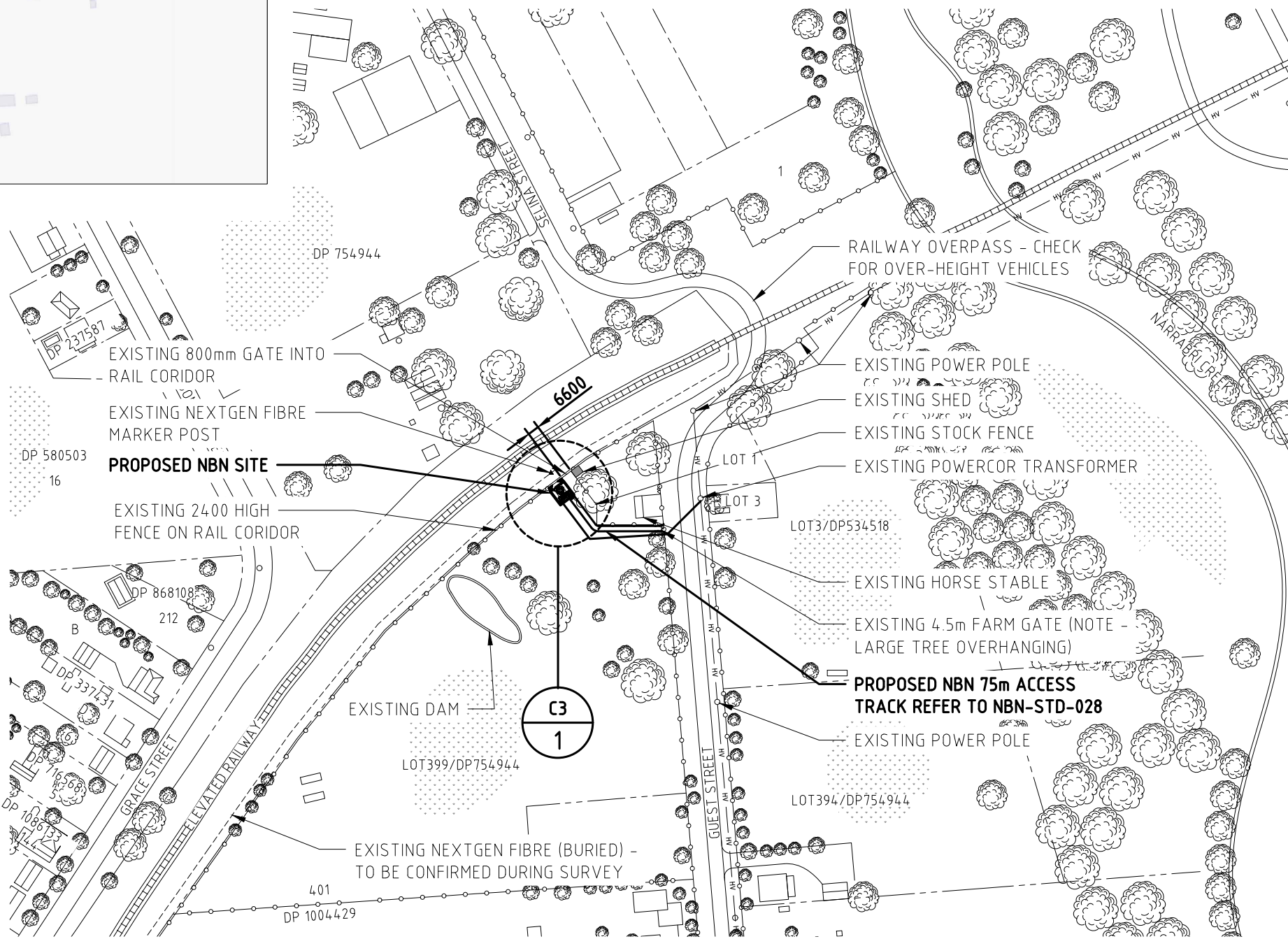
LEGEND

— HV —	OVERHEAD POWER LINE
— o — o —	TIMBER FENCE
— \ — \ —	NBN COMPOUND SECURITY FENCE
— — —	PROPERTY BOUNDARY
— E —	UNDERGROUND SUB MAIN CABLE
— — —	NEXTGEN FIBRE (BURIED)



NOTES:

1. ALL UNDERGROUND SERVICES SHOWN INDICATIVE ONLY.
2. NBN POWER ROUTE SHOWN INDICATIVELY ONLY.
3. ALL INFORMATION TO BE CHECKED ON SITE PRIOR TO FABRICATION AND CONSTRUCTION.
4. DRAWINGS BASED ON INFORMATION PROVIDED BY OTHERS.
5. CONSTRUCTION CONTRACTOR TO CONFIRM SUITABILITY OF PROPOSED EWP SET-UP/PARKING LOCATION ON SITE PRIOR TO WORK COMMENCING.
6. SERVICES INFORMATION CONTAINED ON THIS DRAWING IS INDICATIVE ONLY AND REFERENCE SHOULD BE MADE TO THE AUTHORITIES DRAWINGS TO CONFIRM ACCURACY AND COMPLETENESS. WHERE INFORMATION IS AVAILABLE, THE SUB-SURFACE SERVICES INSTALLED BY AGENTS OTHER THAN AUTHORITIES HAVE BEEN SHOWN, BUT ADDITIONAL UNDOCUMENTED SERVICES MAY BE PRESENT. SHOULD THE CONTRACTOR BELIEVE THAT SUB-SURFACE SERVICES ARE AT RISK OF DAMAGE DURING CONSTRUCTION THE CONTRACTOR SHOULD NOTIFY THE RELEVANT AUTHORITIES AND ESTABLISH THE EXACT LOCATION OF THE SERVICES.
7. ADEQUATE SEPARATION TO BE MAINTAINED BETWEEN NON ELECTRICAL SERVICES AS PER THE CLAUSE 3.9.8 OF AS/NZS 3000.



OVERALL SITE PLAN

SCALE 1:3000

Client:



Client:

Client:

Project:

NATIONAL BROADBAND
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APPROVED: SM

Drawing Title:
OVERALL SITE
PLAN

Drawing No.	Revision
2NBR-51-01-NRBI-C2	01



EXISTING RAILWAY TRACK

EXISTING 800mm GATE INTO RAIL CORIDOR

EXISTING NEXTGEN FIBRE MARKER POST

EXISTING NEXTGEN FIBRE (BURIED) - TO
BE CONFIRMED DURING SURVEY

TIMBER EDGING (REFER TO NBN-STD-0012)

STANDARD SITE EARTHING - MONOPOLE
USE NBN-STD-018-SH1 FOLLOWING ANY
SITE SPECIFIC DIMENSIONS

MONOPOLE ACCESS LADDER WITH FALL
ARREST SYSTEM

NBN RF ANTENNA (11-OFF)

COMPOUND ENCLOSED BY SECURITY
FENCE (REFER TO NBN-STD-0012)
USE WIND CATEGORY TO DETERMINE
FENCE FOOTING TYPE

75mm THICK SINGLE SIZED GRAVEL
OVER WEED MAT. ON LEVEL SITES.
USE LOCAL GRAVEL AS APPROVED

EXISTING 2400 HIGH FENCE ON RAIL
CORIDOR

TOWER WITH HEADFRAME (REFER TO
NBN-STD-0009)

OUTLINE OF TOWER FOUNDATION
(INDICATIVE ONLY, PAD TYPE SHOWN)

NBN COMPOUND- USE NBN-STD-003
FOLLOWING ANY SITE SPECIFIC DIMENSIONS

CABLE LADDER SUPPORT POST
(REFER TO NBN-STD-0014)

3 ODC ELEVATION PLATFORM REFER
2NBR-51-01-NRBI-S1 FOR DETAILS

METER BOX (REFER TO NBN-STD-0022)

LEGEND

— HV —	OVERHEAD POWER LINE
—○—○—○—	TIMBER FENCE
—\—\—\—\—	NBN COMPOUND SECURITY FENCE
— — — — —	PROPERTY BOUNDARY
— E —	UNDERGROUND SUB MAIN CABLE
- - - - -	NEXTGEN FIBRE (BURIED)

EXISTING STOCK FENCE

EXISTING SHED

NBN Ø600 TRANSMISSION ANTENNA
TO NARRABRI EAST (1-OFF)

CABLE LADDER ROUTE FOR TOWERS
WITH CENTRAL CABLE RISER

CABLE LADDER WITH DOUBLE POSTS
(300mm MAXIMUM FROM VERTICAL
LADDER). USE WIND CATEGORY TO
DETERMINE POST FOOTING TYPE

CABLE LADDER FIXING TO ODC.
(REFER NBN-STD-0013 FOR DETAILS)

PARKING AREA FOR EMERGENCY
TEMPORARY GENERATOR LOCATION
(3.5m x 2m APPROX.)

LOCKING TUBES ENCASEMENT
(REFER TO NBN-STD-0012)

3000 WIDE DOUBLE VEHICULAR ACCESS
GATES. (REFER TO SITE SPECIFIC
DRAWINGS FOR PLACEMENT)

PROPOSED NBN 75m ACCESS TRACK
REFER TO NBN-STD-028

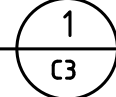
NBN OUTDOOR CABINET E6150 (1-OFF)
(DIMENSION 1900H x 800W x 700D) REFER
TO NBN-STD-0016 SHT FOR DETAILS

NBN OUTDOOR CABINET B158 (2-OFF)
(DIMENSION 2000H x 700W x 849D) REFER
TO NBN-STD-0016 SHT 5 FOR DETAILS

PROPOSED GPS ANTENNA (1-OFF) FIXED
TO CABLE TRAY SUPPORT POST. REFER
TO NBN-STD-0013 FOR DETAILS

UNDERGROUND POWER FROM POINT
OF SUPPLY REFER TO C2

DETAIL
SCALE 1:100



NOTES:

- REFER TO SITE DRAWINGS FOR COMPOUND DIMENSIONS.
NBN DESIGN CONSULTANT SHALL ENSURE THAT TOWER FOUNDATIONS ARE WITHIN THE NBN LEASE AREA.
- REFER TO STANDARD DRAWING NBN-STD-0001 FOR ADDITIONAL NOTES.
- NO PART OF THE INSTALLATION, INCLUDING FOUNDATION AND HEADFRAME (INCLUDING ANTENNAS) SHALL EXTEND BEYOND LEASE AREA BOUNDARY.
- PROPOSED ODC TO BE INSTALLED CLOSEST TO STRUCTURE.
- REFER TO NBN-STD-0017 OR0034 FOR SUPPORT SLAB AND CONDUIT INSTALLATION.
- REFER TO SITE SPECIFIC DRAWINGS FOR TOWER FOUNDATION DETAILS.
- SEPARATE PDB SHALL BE USED CONJUNCTION WITH NBN-STD-0017.

Client:



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CHECKED: ML

APPROVED: SM

Drawing Title:

**SITE SETOUT
PLAN**

Drawing No.	Revision
2NBR-51-01-NRBI-C3	01

NBN RF ANTENNA CONFIGURATION - 2300MHz & 3400MHz																					Client:	
PANEL ANTENNA DETAILS									MAIN FEEDER DETAILS					RRU DETAILS					FREQUENCY	RF TAIL DETAILS	RET CABLE DETAILS	
SECTOR	TYPE	DIMENSIONS HxWxD	℄ HEIGHT	AZIMUTH (TN)	E-TILT		MECH TILT	ANTENNA ACTION REQUIRED	TYPE	OVERALL LENGTH	CANISTER HEIGHT	CANISTER TO ANTENNA LENGTH	FEEDER ACTION REQ	TYPE	LOCATION	℄ HEIGHT	RRU PORT	ACTION		ANTENNA TO RRU LENGTH	LENGTH	
S1	AIR 6419 B40	852x506x208	40.0m	5°	1 & 2	2°	0°	INSTALL	H&S HYBRID 9/18 10mm MKII Ø39.5mm	50.0m	40.0m	3.0m	INSTALL									
					3 & 4	2°																
B1	AIR 3219 B42	776x408x199	40.0m	5°	1 & 2	2°		INSTALL	H&S HYBRID 9/18 10mm MKII Ø39.5mm	50.0m	40.0m	3.0m	INSTALL									
					3 & 4	2°																
S2	AIR 6419 B40	852x506x208	40.0m	95°	1 & 2	2°	0°	INSTALL	H&S HYBRID 9/18 10mm MKII Ø39.5mm	50.0m	40.0m	3.0m	INSTALL									
					3 & 4	2°																
B2	AIR 3219 B42	776x408x199	40.0m	95°	1 & 2	2°		INSTALL	H&S HYBRID 9/18 10mm MKII Ø39.5mm	50.0m	40.0m	3.0m	INSTALL									
					3 & 4	2°																
S3	AIR 6419 B40	852x506x208	40.0m	195°	1 & 2	2°	0°	INSTALL	H&S HYBRID 9/18 10mm MKII Ø39.5mm	50.0m	40.0m	3.0m	INSTALL									
					3 & 4	2°																
B3	AIR 3219 B42	776x408x199	40.0m	195°	1 & 2	2°		INSTALL	H&S HYBRID 9/18 10mm MKII Ø39.5mm	50.0m	40.0m	3.0m	INSTALL									
					3 & 4	2°																
B4	AIR 3219 B42	776x408x199	40.0m	275°	1 & 2	2°	0°	INSTALL	H&S HYBRID 9/18 10mm MKII Ø39.5mm	50.0m	40.0m	3.0m	INSTALL									
					3 & 4	2°																
								INSTALL	H&S HYBRID 9/18 10mm MKII Ø39.5mm	50.0m	40.0m	3.0m	INSTALL									
NBN RF ANTENNA CONFIGURATION - 26GHz																						
PANEL ANTENNA DETAILS									MAIN FEEDER DETAILS					RRU DETAILS					FREQUENCY	RF TAIL DETAILS	RET CABLE DETAILS	
SECTOR	TYPE	DIMENSIONS HxWxD	℄ HEIGHT	AZIMUTH (TN)	E-TILT		MECH TILT	ANTENNA ACTION REQUIRED	TYPE	OVERALL LENGTH	CANISTER HEIGHT	CANISTER TO ANTENNA LENGTH	FEEDER ACTION REQ	TYPE	LOCATION	℄ HEIGHT	RRU PORT	ACTION		ANTENNA TO RRU LENGTH	LENGTH	
K1	AIR 5322 n257	279x200x136	40.0m	9°	0°		5.5°	INSTALL	H&S HYBRID 9/18 10mm MKII Ø39.5mm	50.0m	40.0m	3.0m	INSTALL									
K2	AIR 5322 n257	279x200x136	40.0m	95°	0°		5.5°	INSTALL	H&S HYBRID 9/18 10mm MKII Ø39.5mm	50.0m	40.0m	3.0m	INSTALL									
K3	AIR 5322 n257	279x200x136	40.0m	195°	0°		5.5°	INSTALL	H&S HYBRID 9/18 10mm MKII Ø39.5mm	50.0m	40.0m	3.0m	INSTALL									
K4	AIR 5322 n257	279x200x136	40.0m	275°	0°		5.5°	INSTALL	H&S HYBRID 9/18 10mm MKII Ø39.5mm	50.0m	40.0m	3.0m	INSTALL									
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																					NBN ANTENNA CONFIGURATION	
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																					2NBR-51-01-NRBI-A1	
																					Revision	
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NBN ANTENNA
CONFIGURATION

Drawing No.
2NBR-51-01-NRBI-A1

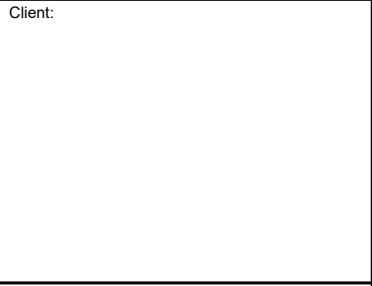
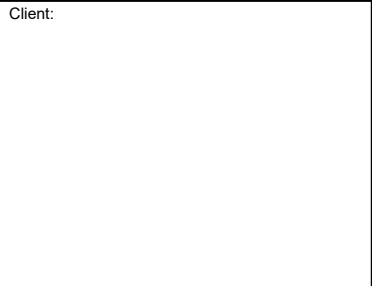
Revision
01



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NBN GPS AND TRANSMISSION CONFIGURATION

ANTENNA	ANTENNA DETAILS						MAIN FEEDER DETAILS			RRU DETAILS			Tx SPLITTER DETAILS	
	TYPE	DIMENSION	€ HEIGHT	AZIMUTH (TN)	DESTINATION	ANTENNA ACTION REQUIRED	TYPE	OVERALL LENGTH	FEEDER ACTION REQUIRED	RAU QUANTITY	TYPE	RAU ACTION REQUIRED	COUNT	ACTION
A	ANT3 A 0.6 10/11 HPX	Ø600	38.0m	121.39°	NARRABRI EAST	INSTALL	2x LDF-150	42.0m	INSTALL	2	ML6365	INSTALL		
GPS	KRE 101 2395/2	Ø77x74	2.5m	N/A		INSTALL	1x LDF1-50	5.0m	INSTALL					



Project:
NATIONAL BROADBAND NETWORK
SITE No: 2NBR-51-01-NRBI
NARRABRI
57 GUEST STREET
NARRABRI
NSW 2390

PRELIMINARY

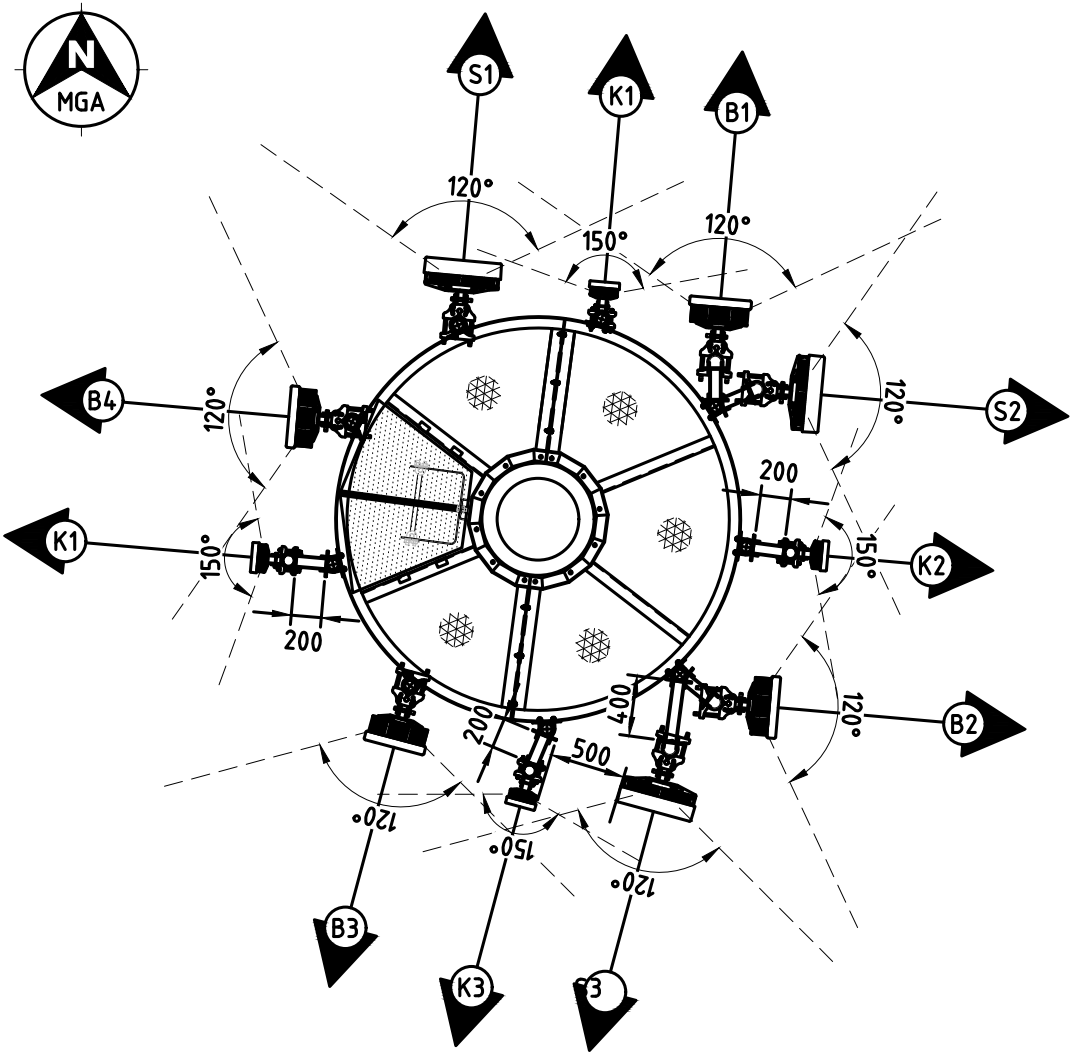
01	13.09.24	PRELIMINARY	SM
Rev	Date	Revision Details	CAD

VISIONSTREAM AUSTRALIA PTY LTD
167 Cremorne Street
Cremorne, VIC 3121
Website: <https://www.visionstream.com/>
AU phone number: 1300 VENTIA (836 842)
NZ phone number: 0508 VENTIA (836 842)

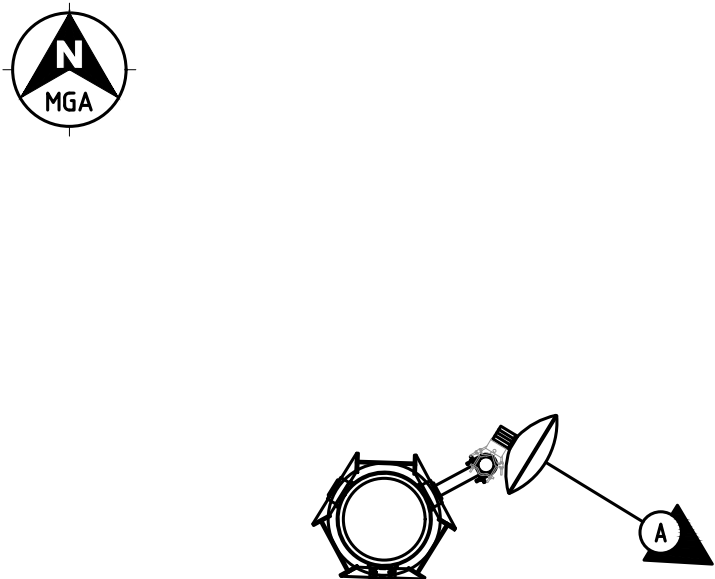
DESIGNER: BH
CHECKED: ML
APPROVED: SM

Drawing Title:
NBN ANTENNA CONFIGURATION & SETOUT PLAN

Drawing No. 2NBR-51-01-NRBI-A2
Revision 01

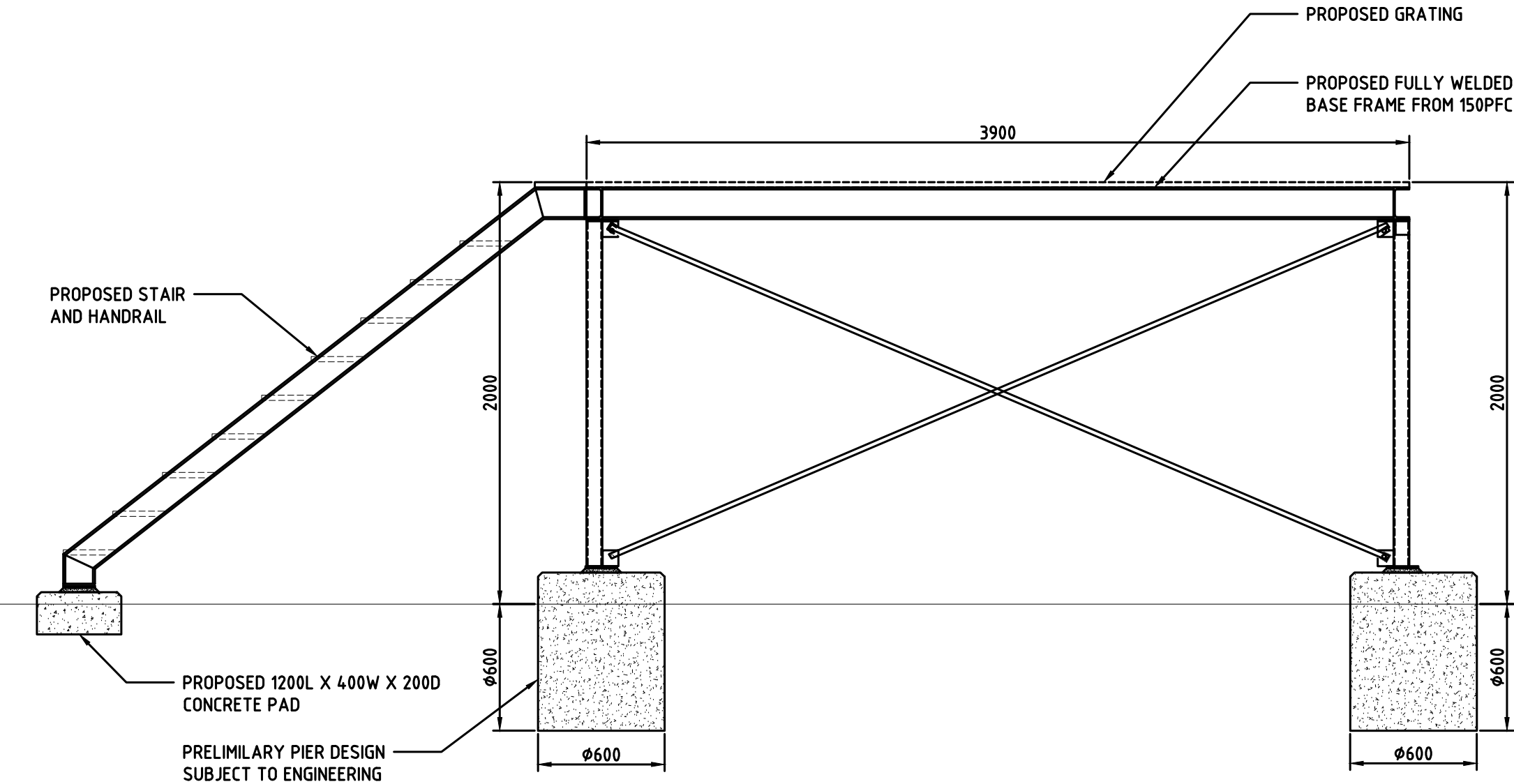


RF ANTENNA SETOUT PLAN
SCALE 1:50



TRANSMISSION ANTENNA SETOUT PLAN
SCALE 1:50





PROPOSED PLATFORM ELEVATION
SCALE 1:25

Client:



Client:

Client:

Project:

NATIONAL BROADBAND NETWORK
SITE No: 2NBR-51-01-NRBI
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DESIGNER: BH

CHECKED: ML

APPROVED: SM

Drawing Title:

ODU PLATFORM CONFIGURATION DETAILS SHEET 2

Drawing No.

2NBR-51-01-NRBI-S2

Revision

01

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