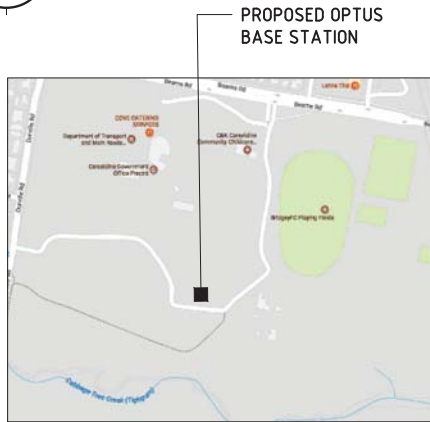




LOCALITY MAP

COPYRIGHT © - GOOGLE MAPS

SITE CO-ORDINATES	
MONOPOLE LOCATION	
DATUM: MGA (GDA 94)	ZONE: 56
LATITUDE	-27.351565
LONGITUDE	153.02519
EASTING	502 491
NORTHING	6 974 624



OVERALL SITE PLAN

SCALE 1:3000

NOTES:

1. THIS DRAWING IS DIAGRAMMATIC ONLY AND SHOULD NOT BE SCALED.
2. DIMENSIONS, COORDINATES, AND LEVELS SHOWN ARE NOMINAL AND SUBJECT TO CONFIRMATION BY SURVEYOR.

SITE ADDRESS:

532 BEAMS ROAD,
CARSELDINE,
QLD 4034

NOTES:

1. BASIS OF DESIGN
 - > SITE INSPECTION 01/11/2017
 - > OTHER (SURVEY, PCCS, ETC)
2. PANEL ANTENNAS
 - > 1 OFF PER SECTOR (EACH 2.68m LONG) AT EL 30.85m FOR OPTUS
 - > 1 OFF PER SECTOR (EACH 2.68m LONG) AT EL 30.85m FOR VODAFONE
 - > SECTOR 1 - 80°, SECTOR 2 - 220°, SECTOR 3 - 350°
 - > MOUNTED ON TRIANGULAR HEADFRAME
3. TRANSMISSION
 - > VIA OPTIC FIBRE
 - > TO BE CONFIRMED BY OPTUS
4. EQUIPMENT ODU
 - > OPTUS 5 BAY ODU
 - > SUPPORTED ON CONCRETE SLAB
5. OPTUS MONOPOLE
 - > OPTUS 30m HIGH MONOPOLE WITH TRIANGULAR HEADFRAME
6. FEEDER CABLES
 - > SIZE: 7/8" ALL SECTORS
 - > LENGTH: 35m ALL SECTORS
 - > OTHER DETAIL NOT SHOWN ON PLAN
7. SITE ACCESS
 - > VIA EXISTING ACCESS OFF BEAMS ROAD
8. ANTENNA ACCESS
 - > VIA EWP
9. POWER SUPPLY
 - > NEW POWER SUPPLY FROM EXISTING STRUCTURE APPROXIMATELY 200m (TBC) UNDERGROUND
10. OTHER (PAINTING, LANDSCAPING, SCREENING)
 - > TBC

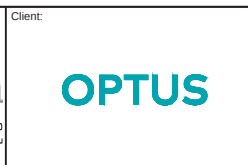
PLANS AND DOCUMENTS
referred to in the PDA
DEVELOPMENT APPROVAL



Approval no: DEV2018/968

Date: 1 November 2018

Rev	Date	Revision Details	SSMC	JM	KS	IT	DP
01	29.03.18	ISSUED FOR APPROVAL					
			Consultant	CAD	Designer	Verifier	Approver



Client:

Project: MOBILE NETWORK AUSTRALIA
SITE No:- B1633
CARSELDINE STATION
532 BEAMS ROAD

Drawing Title:

OVERALL SITE PLAN
SHEET 1 OF 2

Drawing Status:

FOR APPROVAL

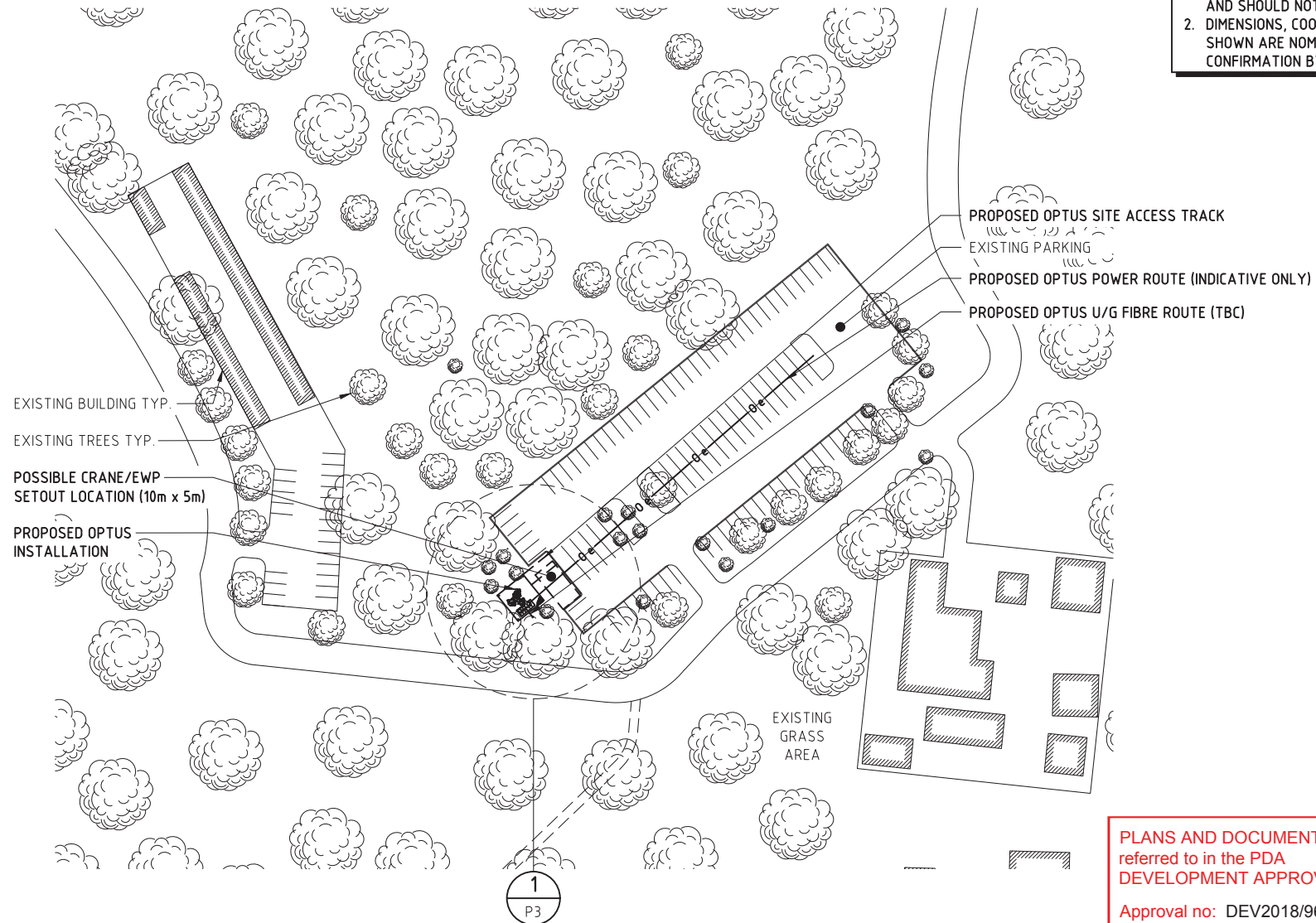
Drawing No.	Revision
B1633-P1	1

20 10 0 10 20 30 40 50mm



NOTES:

1. THIS DRAWING IS DIAGRAMMATIC ONLY AND SHOULD NOT BE SCALED.
2. DIMENSIONS, COORDINATES, AND LEVELS SHOWN ARE NOMINAL AND SUBJECT TO CONFIRMATION BY SURVEYOR.



OVERALL SITE PLAN

SCALE 1:1000

PLANS AND DOCUMENTS
referred to in the PDA
DEVELOPMENT APPROVAL



Approval no: DEV2018/968
Date: 1 November 2018

Rev	Date	Revision Details	SSMC Consultant	JM CAD	KS Designer	IT Verifier	DP Approver
01	29.03.18	ISSUED FOR APPROVAL					



Client:
OPTUS

Project:
**MOBILE NETWORK
AUSTRALIA
SITE No:- B1633
CARSELDINE STATION
532 BEAMS ROAD**

Drawing Title:
**OVERALL SITE PLAN
SHEET 2 OF 2**

Drawing Status:
FOR APPROVAL

Drawing No.
B1633-P2

Revision
1

20 10 0 10 20 30 40 50mm



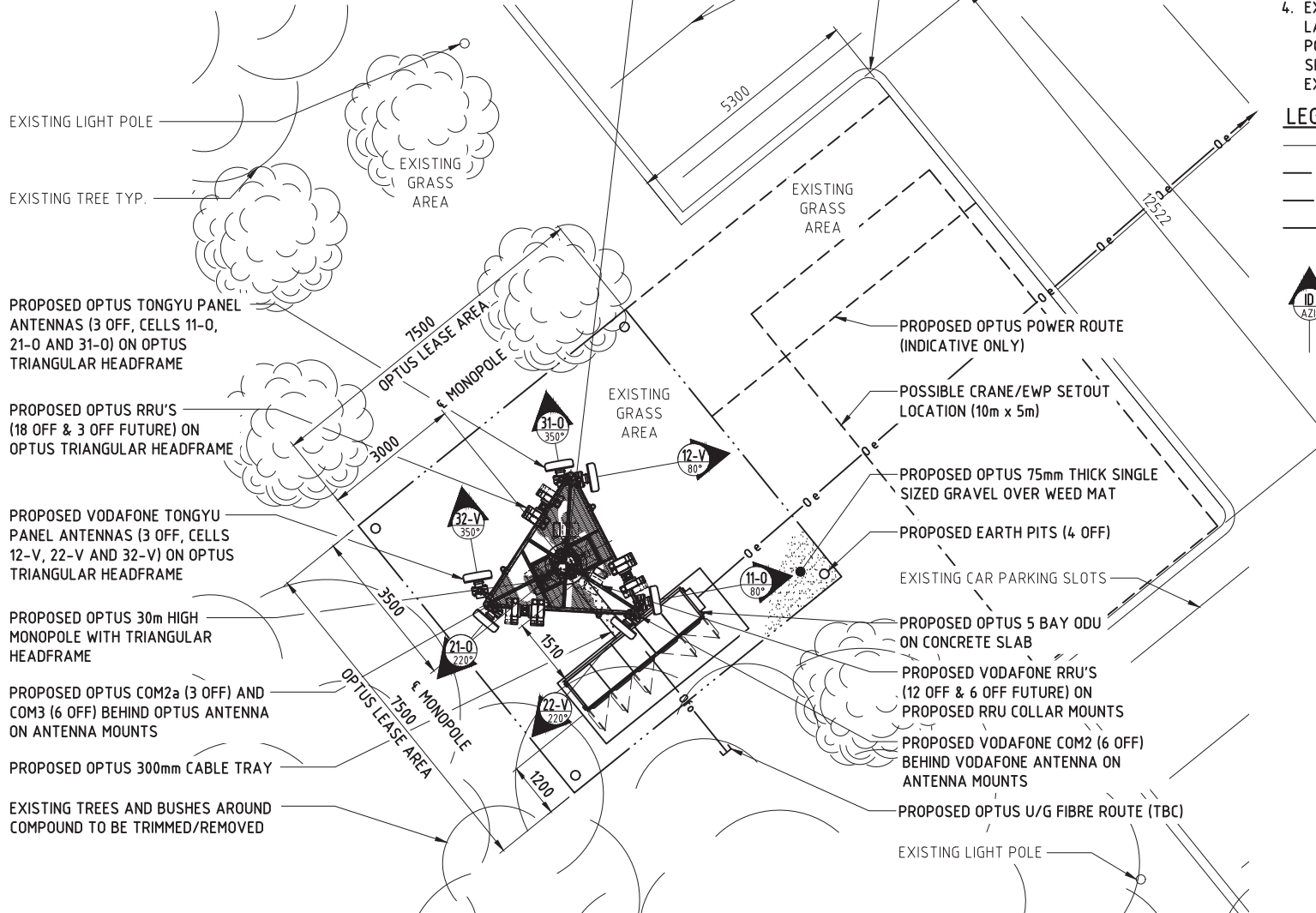
MGA ZONE 56
E 502 491
N 6 974 624
AT € MONOPOLE

NOTES:

1. REFER TO DRAWING B1633-P5 FOR ANTENNA SYSTEM CONFIGURATION.
2. PROPOSED OPTUS MLEH 6/12" FIBRE HYBRID CABLES (6 OFF) INTERNALLY IN THE MONOPOLE.
3. ALL INFORMATION TO BE CHECKED ON SITE PRIOR TO FABRICATION AND CONSTRUCTION.
4. EXCAVATION IS LIKELY TO BE SLOW AND WILL REQUIRE THE USE OF LARGER THAN TRADITIONAL EXCAVATION EQUIPMENT AND POSSIBLY PNEUMATIC ROCK HAMMERS AND/OR A TUNE TO ASSIST. SPECIALISED CONTRACTORS SHOULD BE CONSULTED TO DISCUSS EXCAVATION TECHNIQUES.

LEGEND

— — — — —	PROPERTY BOUNDARY
— 0fo — 0fo —	OPTUS FIBRE OPTIC
— 0 e — 0 e —	OPTUS UG ELECTRICITY
— / — / —	FENCE LINE



DETAIL
SCALE 1:100

1
P2

PLANS AND DOCUMENTS
referred to in the PDA
DEVELOPMENT APPROVAL



Approval no: DEV2018/968
Date: 1 November 2018



Project: MOBILE NETWORK
AUSTRALIA
SITE No:- B1633
CARSELDINE STATION
532 BEAMS ROAD

Drawing Title:
DRAFT SITE LAYOUT

Drawing Status:
FOR APPROVAL

Drawing No.
B1633-P3

Revision
1

NOTES:

1. REFER TO DRAWING B1633-P5 FOR PANEL ANTENNA DETAILS.
2. THIS DRAWING IS DIAGRAMMATIC ONLY AND SHOULD NOT BE SCALED.
3. ALL INFORMATION TO BE CHECKED ON SITE PRIOR TO FABRICATION AND CONSTRUCTION.

PROPOSED OPTUS COM2a (3 OFF) AND COM3 (6 OFF) BEHIND OPTUS ANTENNA ON ANTENNA MOUNTS

PROPOSED OPTUS RRU'S (18 OFF & 3 OFF FUTURE) MOUNTED ON OPTUS TRIANGULAR HEADFRAME

PROPOSED VODAFONE COM2 (6 OFF) BEHIND VODAFONE ANTENNA ON ANTENNA MOUNTS

PROPOSED OPTUS 30m HIGH MONOPOLE WITH TRIANGULAR HEADFRAME

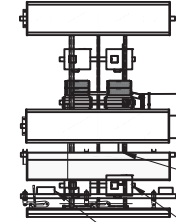
PROPOSED OPTUS MLEH 6 x 6/12" FIBRE HYBRID CABLES RUN INTERNALLY IN MONOPOLE

EXISTING TREES TYP.

EXISTING TREES/BUSHES AROUND COMPOUND TO BE TRIMMED/REMOVED

PROPOSED OPTUS DIRECT EMBEDMENT MONOPOLE FOUNDATION (INDICATIVE ONLY)

SOUTH-WEST ELEVATION
SCALE 1:100

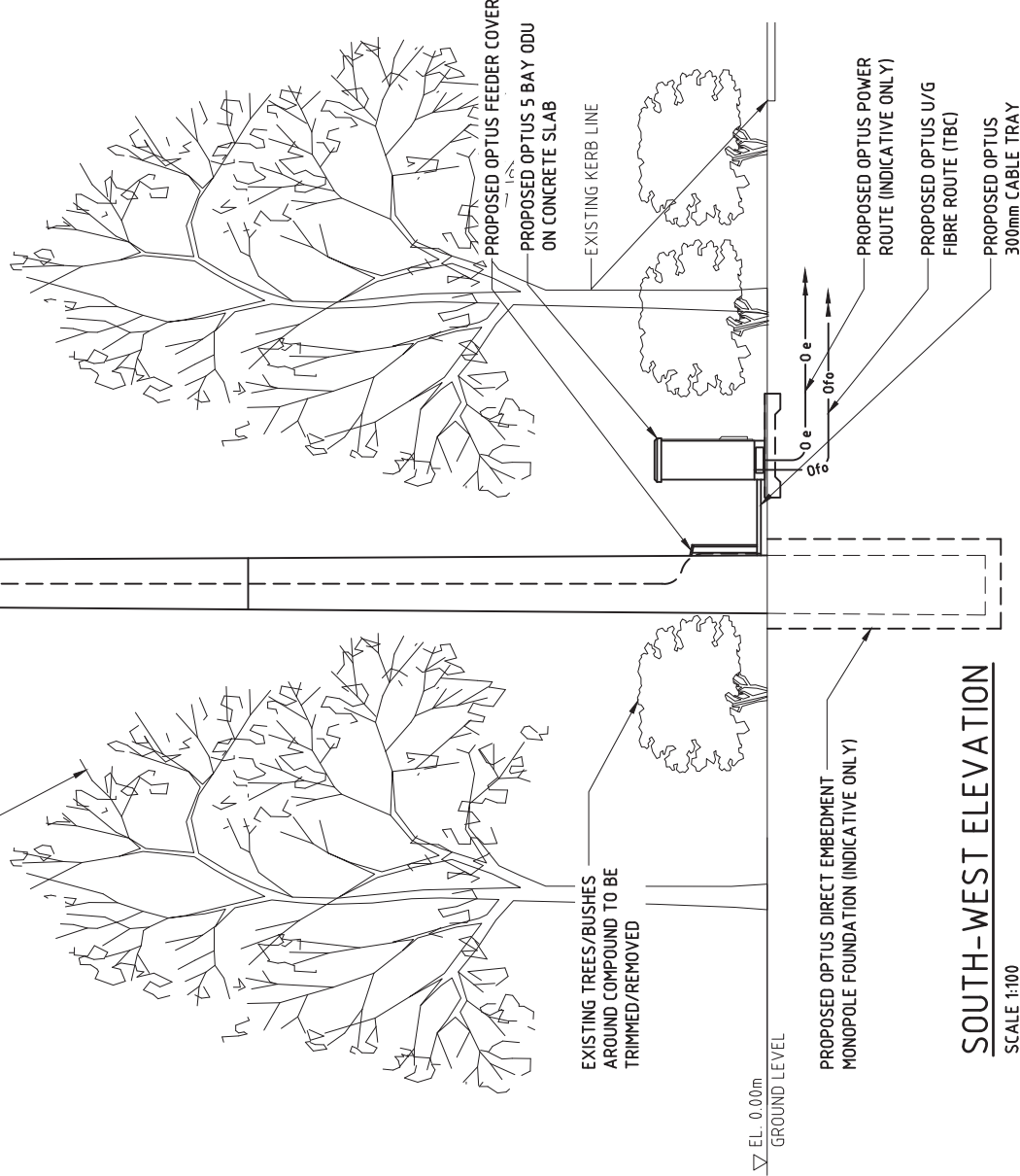


- ▼ EL. 32.19m TOP OF PROPOSED OPTUS PANEL ANTENNAS
- ▼ EL. 30.85m
 - £ PROPOSED OPTUS PANEL ANTENNAS (3 OFF)
 - £ PROPOSED VODAFONE PANEL ANTENNAS (3 OFF)
 - £ PROPOSED OPTUS RRU'S (18 OFF) + 3 OFF FUTURE
- ▼ EL. 30.00m TOP OF PROPOSED MONOPOLE
- ▼ EL. 28.4m
 - £ PROPOSED VODAFONE RRU'S (3 OFF) & £ FUTURE VODAFONE RRU'S (6 OFF)
- ▼ EL. 27.4m
 - £ PROPOSED VODAFONE RRU'S (9 OFF)

PROPOSED VODAFONE RRU'S (12 OFF & 6 OFF FUTURE) ON PROPOSED RRU COLLAR MOUNTS

PLANS AND DOCUMENTS
referred to in the PDA
DEVELOPMENT APPROVAL

Approval no: DEV2018/968
Date: 1 November 2018



Rev	Date	Revision Details	SSMC Consultant	JM CAD	KS Designer	IT Verifier	DP Approver
01	29.03.18	ISSUED FOR APPROVAL					



Client:

Project:
MOBILE NETWORK AUSTRALIA
SITE No:- B1633
CARSELDINE STATION
532 BEAMS ROAD

Drawing Title:
DRAFT SITE ELEVATION

Drawing Status:
FOR APPROVAL

Drawing No.
B1633-P4

Revision
1

ANTENNA	OPERATOR SECTOR IDENTITY N° (SAO)	OPTUS SECTOR 1 11-O	OPTUS SECTOR 2 21-O	OPTUS SECTOR 3 31-O
	STATUS	PROPOSED	PROPOSED	PROPOSED
	AZIMUTH (° TN)	80° TN	220° TN	350° TN
	EL CL ANTENNA	30.85m	30.85m	30.85m
	COORDINATES (NOTE 2)	E 525 415	E 525 415	E 525 415
	ELECTRICAL TILT (°)	6°	6°	2°
	RET	YES	YES	YES
	MAKE & MODEL	TQB-D609017172717DEI-60F	TQB-D609017172717DEI-60F	TQB-D609017172717DEI-60F
	DIMENSIONS (H x W x D)	2680x620x160	2680x620x160	2680x620x160
	PORTS	1 & 2	3 & 4	5 & 6
	PORT USER	OPTUS	OPTUS	OPTUS
	FREQUENCY BANDS	700	700/900	L18/U21/L23/L26
ANCILLARIES	MHA	1 x COM2a	2 x COM3	1 x COM2a
	COMBINER / DIPLEXER	1 x FRPA(700) + 1 x FXDB(900) + 1 x FXED(1800) + 1 x FRGT(2100) + 1 x FZNI(2300) + 1 x LFRHA(2600) +	1 x FRPA(700) + 1 x FXDB(900) + 1 x FXED(1800) + 1 x FRGT(2100) + 1 x FZNI(2300) + 1 x LFRHA(2600) +	1 x FRPA(700) + 1 x FXDB(900) + 1 x FXED(1800) + 1 x FRGT(2100) + 1 x FZNI(2300) + 1 x LFRHA(2600) +
	RRU / RF MODULES	1 x FZNI(2300) FUTURE	1 x FZNI(2300) FUTURE	1 x FZNI(2300) FUTURE
COAXIAL FEEDERS	STATUS	-	-	-
	TECHNOLOGIES	-	-	-
	QUANTITY	-	-	-
	DESIGNATION (SIZE)	-	-	-
	ESTIMATED LENGTH	-	-	-
TRUNK CABLES	STATUS	PROPOSED	PROPOSED	PROPOSED
	TECHNOLOGIES	L7/ L9/ L18/ U21/ L23/ L26	L7/ L9/ L18/ U21/ L23/ L26	L7/ L9/ L18/ U21/ L23/ L26
	QUANTITY	3	3	3
	MAKE & MODEL (SIZE)	MLEH	MLEH	MLEH
	NO. OF DC / SMF PAIRS	6/12"	6/12"	6/12"
	ESTIMATED LENGTH	40m	40m	40m
	OTHER	-	-	-

ANTENNA	OPERATOR SECTOR IDENTITY N° (SAO)	VODAFONE SECTOR 1 12-V	VODAFONE SECTOR 2 22-V	VODAFONE SECTOR 3 32-V
	STATUS	PROPOSED	PROPOSED	PROPOSED
	AZIMUTH (° TN)	80° TN	220° TN	350° TN
	EL CL ANTENNA	30.85m	30.85m	30.85m
	COORDINATES (NOTE 2)	E 525 415	E 525 415	E 525 415
	ELECTRICAL TILT (°)	6°	6°	2°
	RET	YES	YES	YES
	MAKE & MODEL	TQB-D609017172717DEI-60F	TQB-D609017172717DEI-60F	TQB-D609017172717DEI-60F
	DIMENSIONS (H x W x D)	2680x620x160	2680x620x160	2680x620x160
	PORTS	1 & 2	3 & 4	5 & 6
	PORT USER	VODAFONE	VODAFONE	VODAFONE
	FREQUENCY BANDS	850/900	850/900	850/900
ANCILLARIES	MHA	2 x COM2 + 2 FILTERS	2 x COM2 + 2 FILTERS	2 x COM2 + 2 FILTERS
	COMBINER / DIPLEXER	1 x RRU(850)	1 x RRU(900)	1 x RRU(850)
	RRU / RF MODULES	1 x RRU(1800) + 1 x FUTURE RRU	1 x RRU(1800) + 1 x FUTURE RRU	1 x RRU(1800) + 1 x FUTURE RRU
COAXIAL FEEDERS	STATUS	-	-	-
	TECHNOLOGIES	-	-	-
	QUANTITY	-	-	-
	DESIGNATION (SIZE)	-	-	-
	ESTIMATED LENGTH	-	-	-
TRUNK CABLES	STATUS	PROPOSED	PROPOSED	PROPOSED
	TECHNOLOGIES	U850/U900/L1800/U2100	U850/U900/L1800/U2100	U850/U900/L1800/U2100
	QUANTITY	3	3	3
	MAKE & MODEL (SIZE)	MLEH	MLEH	MLEH
	NO. OF DC / SMF PAIRS	6/12"	6/12"	6/12"
	ESTIMATED LENGTH	40m	40m	40m
	OTHER	-	-	-

ANCILLARY	EQUIPMENT CODE	MANUFACTURER PRODUCT CODE	TECHNOLOGY FREQUENCIES	DIMENSIONS (mm x mm x mm)	WEIGHT (kg)
RRU	(RF MODULE UNO)	NSN FRPA	700	560 x 447 x 133	25
		NSN FXDB	900	560 x 447 x 133	25
		NSN FXED	1800	560 x 447 x 133	25
		NSN FRGT	2100	560 x 447 x 133	25
		NSN FZNI	2300	450 x 350 x 160	17
		NSN FRHA	2600	450 x 350 x 160	17
		HUAWEI 3242	850	400 x 300 x 100	14
COMBINER DIPLEXER	COM2a COM2 COM3	TYT-C002D015 (F1V2)	700	330 x 200 x 130	7
		E11F01P56	700/900	330 x 200 x 130	10
		E15V90P43	1800 / 2100 / 2600	260 x 210 x 120	9

ANTENNA LEGEND



NOTES:

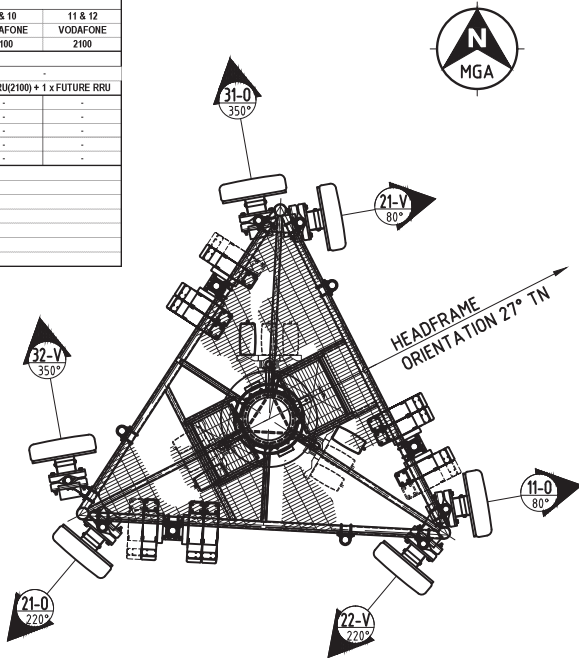
1. ANTENNA CO-ORDINATES ARE SPECIFIED FOR CENTRE OF EACH SECTOR, TO THE NEAREST METRE.
2. INFORMATION IN THE TABLES SUPPLIED AND VERIFIED BY SSMC/NOKIA.
3. ANCILLARIES REFER TO ITEMS AT OR NEAR THE ANTENNA.
4. FEEDER TAILS TO BE COMMSCOPE LDF4-50 WITH MAXIMUM LENGTH OF 5m STRAPPED TO STEELWORK.
5. CO-AXIAL FEEDER AND TRUNK LENGTHS ARE ESTIMATED, ROUNDED UP TO THE NEXT 5m.
6. UNLESS NOTED AS EXISTING, ALL OTHER ANCILLARIES EQUIPMENT IS NEW.

PLANS AND DOCUMENTS referred to in the PDA DEVELOPMENT APPROVAL



Approval no: DEV2018/968

Date: 1 November 2018



OPTUS/VODAFONE ANTENNAS PLAN

SCALE 1:50

01	29.03.18	ISSUED FOR APPROVAL	SSMC	JM	KS	IT	DP
Rev	Date	Revision Details	Consultant	CAD	Designer	Verifier	Approver



Project: MOBILE NETWORK AUSTRALIA
SITE No:- B1633
CARSELDINE STATION
532 BEAMS ROAD

Drawing Title:	PANEL ANTENNA SYSTEM CONFIGURATION		
Drawing Status:	Drawing No.	Revision	
FOR APPROVAL	B1633-P5	1	

20 10 0 10 20 30 40 50mm