



Telecom Mobile Limited
Network Estate, Service Delivery
Level 19, Telecom Tower
92 Albert Street
Private Bag 92028
Auckland

Telephone: 027 277 1227
E-mail: maria.peters@telecom.co.nz

Site Ref. Kelston South - 51768

8 July 2008

Odette Pepers
Waitakere City Council
Private Bag 93109
Henderson 0650
Waitakere City

Dear Odette,

REQUEST TO LOCATE MOBILE PHONE SITE - MASON PARK, KELSTON, WAITAKERE CITY

Introduction:

Telecom is proposing to develop a new Wideband CDMA (WCDMA) network, also known as UMTS (Universal Mobile Telecommunications System), which will complement its existing CDMA network capabilities. WCDMA is a mobile voice and high speed data technology that is part of the International Telecommunication Union's third generation (3G) wireless standards. In order to establish this network, it is necessary to add a number of new mobile phone sites to Telecom's existing network.

Proposal:

Further to our site visits in December 2007 with Council personnel Telecom now seeks formal approval to locate a light pole with associated antennae and an equipment cabinet in the Car Park in Mason Park adjacent to the Railway Platform. This pole will also have lights attached which will provide lighting to the Car Park and the walkway to the Railway Station. In addition, Telecom will provide funding to Council for additional park lighting to provide security to users of the Park and those accessing the Railway Station. Further, the equipment cabinet will be painted by a Council nominated artist at Telecom's cost.

We have attached a detailed plan with photos showing the proposed location and details of the facility.

Site Selection Criteria:

Telecom has followed an extensive site selection process. The initial phase in the site selection process involves the issue of a 'search ring' by a radio engineer identifying a general locality within which a new site is required, and what the technical coverage objectives of the site are.

A200

From here, a number of potential project candidates are identified and evaluated against the following general criteria:

- Coverage priorities
- Willing land owner
- Ease of vehicle site access and access to a telecommunications and electricity supply
- Ground conditions
- Likely environmental impact

Site Specific Selection:

- An appropriate site location was required to provide and maximise the necessary coverage to customers using hand-held phones or devices in those areas projected to have poor or no coverage, particularly for the next generation network coverage. The proposed site was required to be carefully located to maximise the required coverage for the target areas.
 - The required area of coverage provided by the Kelston South site includes a general area bounded by Rickards Place, Aotea Road, Tahī Terrace, Arawa Street and Pine Street
- Finding a site where line of sight coverage can be achieved to most of the target areas was required.
- Finding a property on which the site can be constructed.
- Site configuration must meet RF compliance (NZS 2772) for areas of public access around the site.

The proposed location at Mason Park satisfies the relevant selection criteria:

- The proposed site provides good hand-held coverage to customers in the target areas.
- The proposed site is chosen in conjunction with the proposed mast height to ensure the antennas have enough clearance over the surrounding trees and buildings to provide maximum coverage for the target areas.

Alternative sites Considered:

Alternative sites have been investigated and considered. Four other options were considered.

The Samoan Congregational Church – 3165 Great North Road, New Lynn

This location was not considered as effective from a coverage perspective due to the low height of the existing building.

The Christadelphian Church - 3159 Great North Road, New Lynn

There was no space available for equipment cabinets due to limited car parking space at the site.

The New Fruitvale Train Station – Fruitvale Road, Kelston

Agreement with Landowners could not be achieved and it was difficult to locate a suitable mast location on the platform.

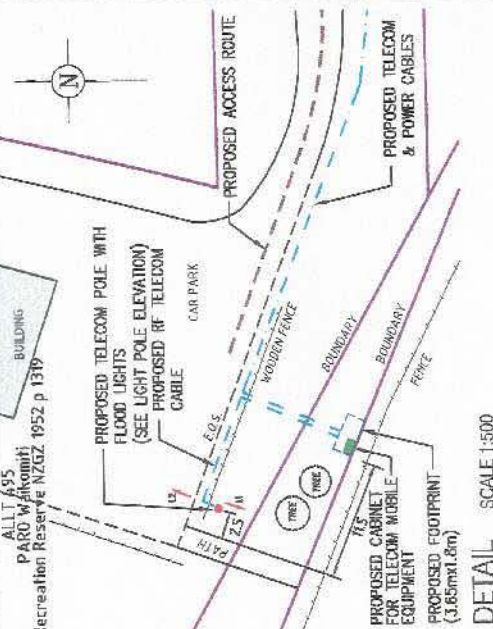
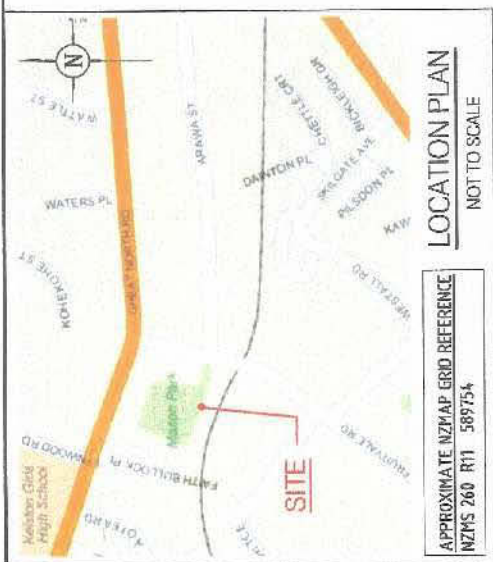
The Old Train Station – Kelston

Access to this site was not able to be found due to the new residential subdivisions built around the old platform.

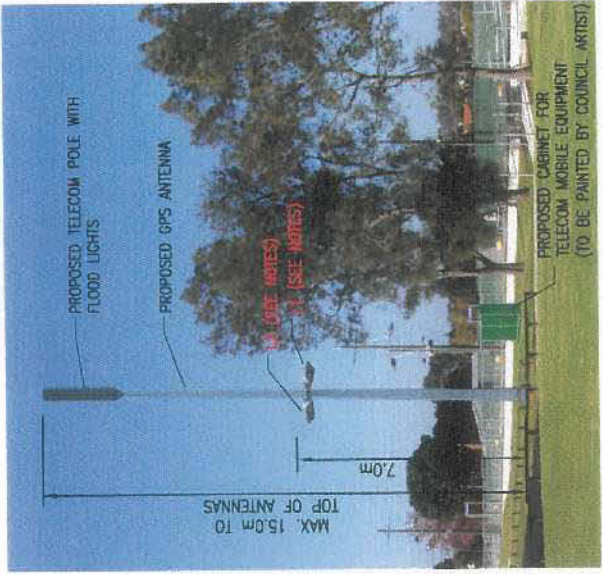
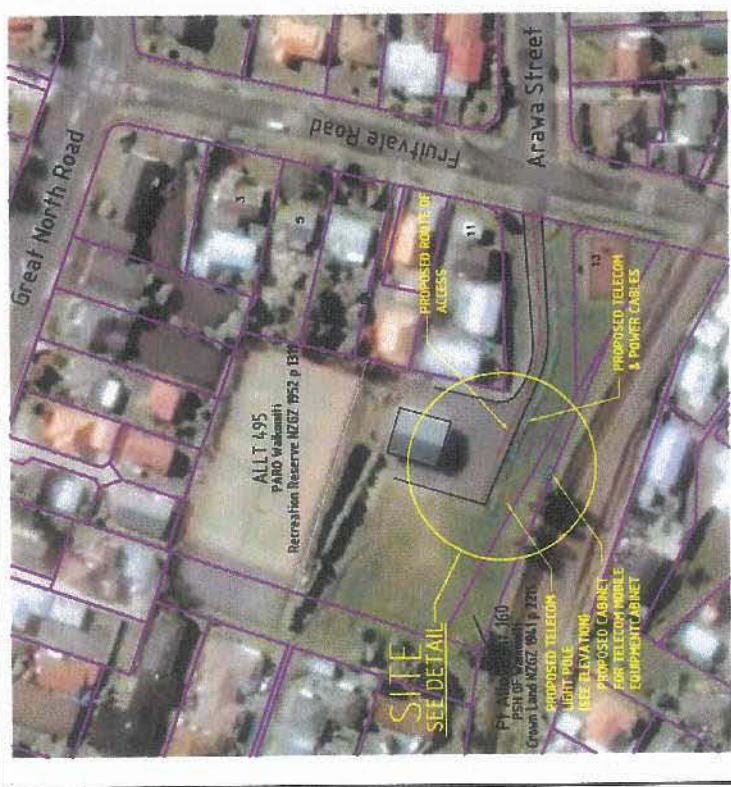
Should you have any queries, please do not hesitate to contact the writer.

Yours faithfully

A21



NOTE:
L1: ADVANCED LIGHTING TECHNOLOGIES RUUD MPRI1410-53-BK WITH TENON ADAPTER AND MID-POLE BRACKET. 100 WATT METAL HALIDE. MOUNT AT 7.0M WITH ZERO TILT AND DIRECT ACROSS ENTRY PATHWAY TO RAILWAY STATION.
L2: ADVANCED LIGHTING TECHNOLOGIES RUUD MAC 1410-53-BK WITH TENON ADAPTER AND MID-POLE BRACKETS. 100 WATT METAL HALIDE. MOUNT AT 7.0M WITH ZERO TILT AND AIM AT CENTRE OF CARPARK.



PLAN SCALE 1:1500

Note
Details shown are indicative only and are subject to final survey, design and construction.



DATE	10/07/08	BY	MS
SCALE	1:1500	PROJECT NO.	2/1447/336
SHEET	1	DATE	20/03/14/00
R5		SCALE	1:1500

Telecom

OPUS

Tauranga Office
170 The Ops
Tauranga, New Zealand
Tel: +61 7 578 9079
Fax: +61 7 578 7066

PROPOSED MOBILE SITE PLAN

TELKOM MOBILE LIMITED
KELSON SOUTH MOBILE SITE
FRUITVALE ROAD, AUCKLAND

NO.	REVISION	DATE	BY	CHKD	DATE
01	ISSUE FOR PERMIT	10/07/08	MS	MS	
02	ISSUE FOR CONSTRUCTION	26/03/14	MS	MS	
03	ISSUE FOR CONSTRUCTION	26/03/14	MS	MS	

A202

[A3]



Chorus
On behalf of Telecom New Zealand Limited
Level 15, 92 Albert Street
Private Bag 92 028
AUCKLAND

Telephone: 027 277 1227
E-mail: marlene.petars@chorus.co.nz

Site Ref. Lawson Park - 51769

15 July 2008

Odette Pepers
Waitakere City Council
Private Bag 93109
Henderson 0650
WAITAKERE CITY

Dear Odette,

**REQUEST TO LOCATE MOBILE PHONE SITE – LAWSON PARK, NEW LYNN,
WAITAKERE CITY**

Introduction:

Telecom is proposing to develop a new Wideband CDMA (WCDMA) network, also known as UMTS (Universal Mobile Telecommunications System), which will complement its existing CDMA network capabilities. WCDMA is a mobile voice and high speed data technology that is part of the International Telecommunication Union's third generation (3G) wireless standards. In order to establish this network, it is necessary to add a number of new mobile phone sites to Telecom's existing network.

Proposal:

Further to our site visits in December 2007 with Council personnel Telecom now seeks formal approval to locate a light pole with associated antennae and an equipment cabinet near the Club Rooms in Lawson Park. The Cabinet will be painted by a Council Artist. In addition, Telecom will replace 4 existing sports ground light poles with new light poles for the benefit of the park users and sports groups using the facilities.

We have attached a detailed plan with photos showing the proposed location and details of the facility.

A203

Site Selection Criteria:

Telecom has followed an extensive site selection process. The initial phase in the site selection process involves the issue of a 'search ring' by a radio engineer identifying a general locality within which a new site is required, and what the technical coverage objectives of the site are.

From here, a number of potential project candidates are identified and evaluated against the following general criteria:

- Coverage priorities
- Willing land owner
- Ease of vehicle site access and access to a telecommunications and electricity supply
- Ground conditions
- Likely environmental impact

Site Specific Selection:

- An appropriate site location was required to provide and maximise the necessary coverage to customers using hand-held phones or devices in those areas projected to have poor or no coverage, particularly for the next generation network coverage. The proposed site was required to be carefully located to maximise the required coverage for the target areas.
- The required area of coverage provided by the Lawson Park site includes a general area bounded by Titirangi Rd, Margan Ave, Ashley Ave, Sheridan Dr and Parker Ave.
- Finding a site where line of sight coverage can be achieved to most of the target areas was required.
- Finding a property on which the site can be constructed.
- Site configuration must meet RF compliance (NZS 2772) for areas of public access around the site.

The proposed location at Lawson Park satisfies the relevant selection criteria:

- The proposed site provides good hand-held coverage to customers in the target areas.
- The proposed site is chosen in conjunction with the proposed mast height to ensure the antennas have enough clearance over the surrounding trees and buildings to provide maximum coverage for the target areas.

Alternative sites Considered:

Alternative sites have been investigated and considered. Two other options were considered.

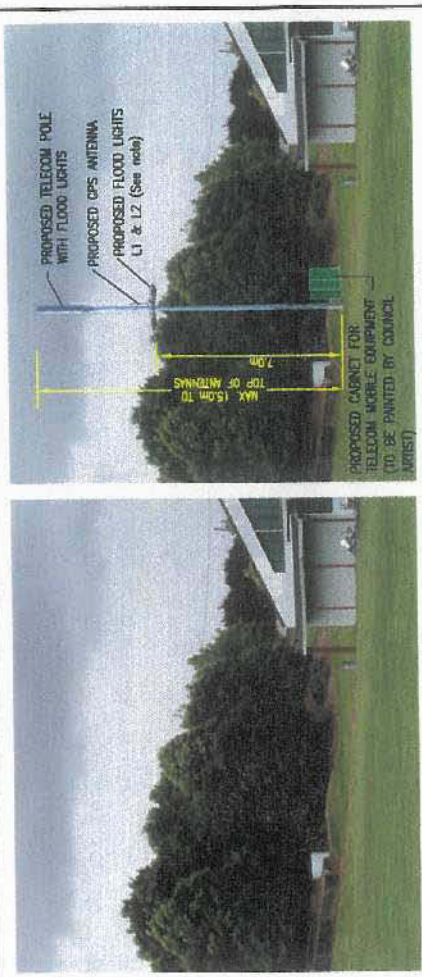
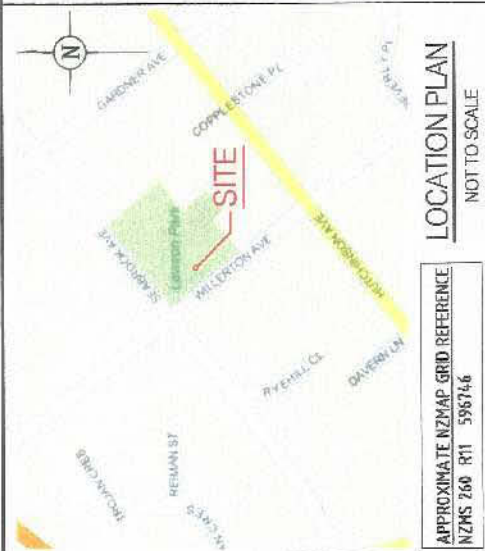
Shops At Parker Ave & Seabrook Ave

The shops were investigated, but there was insufficient space for the proposed telecommunications equipment and mast.

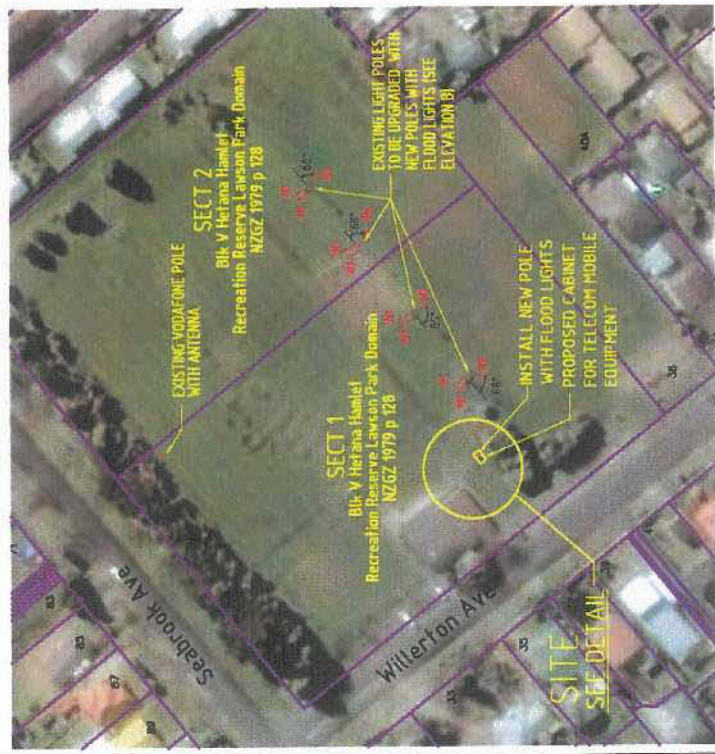
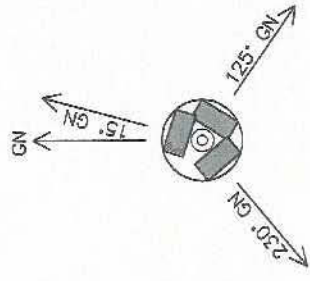
Church At Seabrook Ave

A church near the intersection of Parker Ave & Seabrook Ave was considered. Agreement with landowner could not be achieved.

[A4]

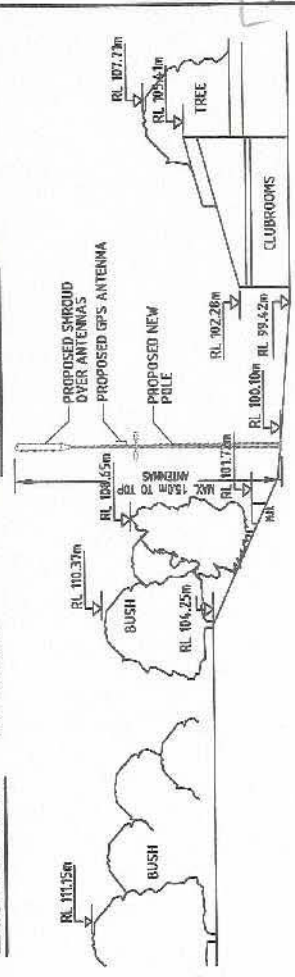


PROPOSED ANTENNA PLAN NOT TO SCALE



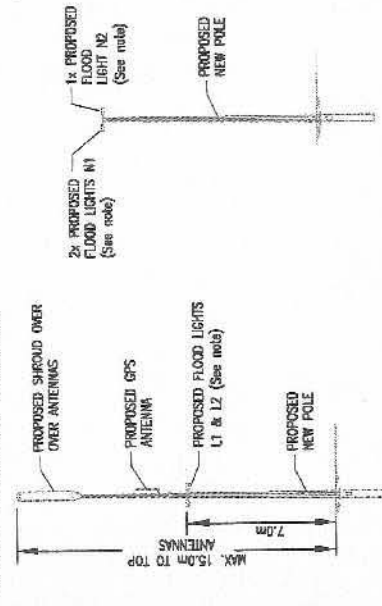
EXISTING VIEW NOT TO SCALE

PROPOSED VIEW NOT TO SCALE

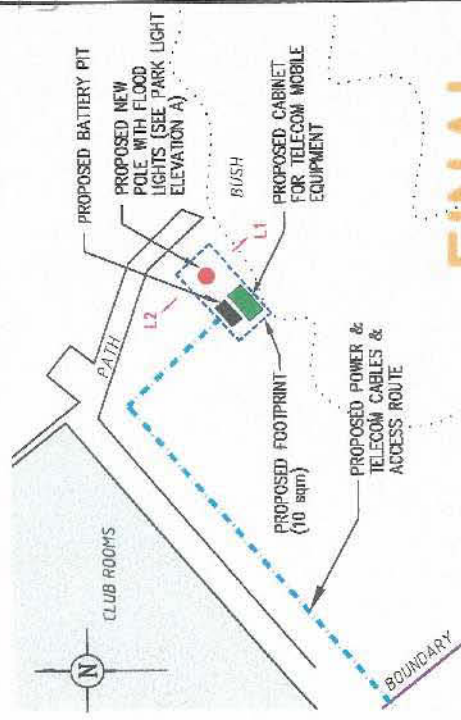


VIEW FROM NORTH EAST SCALE 1:300

NOTE:
 N1: PHILIPS MPP507 1000 WATT METAL HALIDES.
 N2: PHILIPS TANGD (ASYMMETRIC) 400 WATT METAL HALIDES.
 HX IDES.
 L1: ADVANCED LIGHTING TECHNOLOGIES RUID MPR1410-53-8K WITH TENSION ADAPTER AND MID-POLE BRACKET. 100 WATT METAL HALIDE MOUNT AT 7.0M WITH ZERO TILT AND AIM ACROSS PATHWAYS.
 L2: ADVANCED LIGHTING TECHNOLOGIES RUID MAC 1410-53-8K WITH TENSION ADAPTER AND MID-POLE BRACKETS. 100 WATT METAL HALIDE MOUNT AT 7M WITH ZERO TILT AND AIM AT CLUB ROOMS.



PARK LIGHT ELEVATION A SCALE 1:250



DETAIL SCALE 1:250

PARK LIGHT ELEVATION B SCALE 1:250

PLAN SCALE 1:1500

Note: Details shown are indicative only and are subject to final survey, design and construction.



REV	DATE	BY	CHKD	DATE	APPV	DATE
R1	11/08/08	GM	GM	09/11/08		
R2	08/08/08	GM	GM	26/02/08		
R3	26/02/08	GM	GM	26/02/08		
R4	02/02/08	GM	GM	02/02/08		

Telecom

STARS ALLOW

TELECOM INFRASTRUCTURE GROUP

OPUS

Tauranga Office
 101 The Place
 Tauranga, New Zealand
 Tel: +64 7 208 2089
 Fax: +64 7 208 2090

DATE	DESCRIPTION	ISSUE NO.	ISSUE DATE
28/09/13	ISSUE NO. 1	1	28/09/13
27/11/13	ISSUE NO. 2	2	27/11/13
15/07/08	ISSUE NO. 3	3	15/07/08

PROPOSED MOBILE SITE PLAN

SCHEME: 286913.01

AS SHOWN

FINAL

[A5]



Telecom Mobile Limited
Network Estate, Service Delivery
Level 19, Telecom Tower
92 Albert Street
Private Bag 92 028
Auckland

Telephone: 027 277 1227
E-mail: maria.peters@telecom.co.nz

Site Name: Archibald Park - 51760

7 July 2008

Odette Pepers
Waitakere City Council
Private Bag 93109
Henderson 0650
Waitakere City

Dear Odette,

**REQUEST TO LOCATE MOBILE PHONE SITE - ARCHIBALD PARK, KELSTON,
WAITAKERE CITY**

Introduction:

Telecom is proposing to develop a new Wideband CDMA (WCDMA) network, also known as UMTS (Universal Mobile Telecommunications System), which will complement its existing CDMA network capabilities. WCDMA is a mobile voice and high speed data technology that is part of the International Telecommunication Union's third generation (3G) wireless standards. In order to establish this network, it is necessary to add a number of new mobile phone sites to Telecom's existing network.

Proposal:

Further to our site visits in December 2007 with Council personnel Telecom now seeks formal approval to locate a light pole with associated antennae and an equipment cabinet near the Changing Rooms in Archibald Park. This pole will also have lights attached that will provide lighting to the Changing Rooms and the Car Park. In addition, Telecom will upgrade an existing old light pole in the Car Park for the benefit of the park users and sports groups using the facilities.

We have attached a detailed plan with photos showing the proposed location and details of the facility.

Site Selection Criteria:

Telecom has followed an extensive site selection process. The initial phase in the site selection process involves the issue of a 'search ring' by a radio engineer identifying a general locality within which a new site is required, and what the technical coverage objectives of the site are.

From here, a number of potential project candidates are identified and evaluated against the following general criteria:

A206

- Coverage priorities
- Willing land owner
- Ease of vehicle site access and access to a telecommunications and electricity supply
- Ground conditions
- Likely environmental impact

Site Specific Selection:

- An appropriate site location was required to provide and maximise the necessary coverage to customers using hand-held phones or devices in those areas projected to have poor or no coverage, particularly for the next generation network coverage. The proposed site was required to be carefully located to maximise the required coverage for the target areas.
- The required area of coverage provided by the Archibald Park site includes a general area bounded by Nile Rd, Maple St, and Beaubank Rd.
- Finding a site where line of sight coverage can be achieved to most of the target areas was required.
- Finding a property on which the site can be constructed.
- Site configuration must meet RF compliance (N2S 2772) for areas of public access around the site.

The proposed location at Archibald Park satisfies the relevant selection criteria:

- The proposed site provides good hand-held coverage to customers in the target areas.
- The proposed site is chosen in conjunction with the proposed mast height to ensure the antennas have enough clearance over the surrounding trees and buildings to provide maximum coverage for the target areas.

Alternative sites Considered:

Alternative sites have been investigated and considered. Two other options were considered.

Brains Park

This location is not considered as effective from a coverage perspective as the site location at Archibald Park. This location will also require a site within a Park.

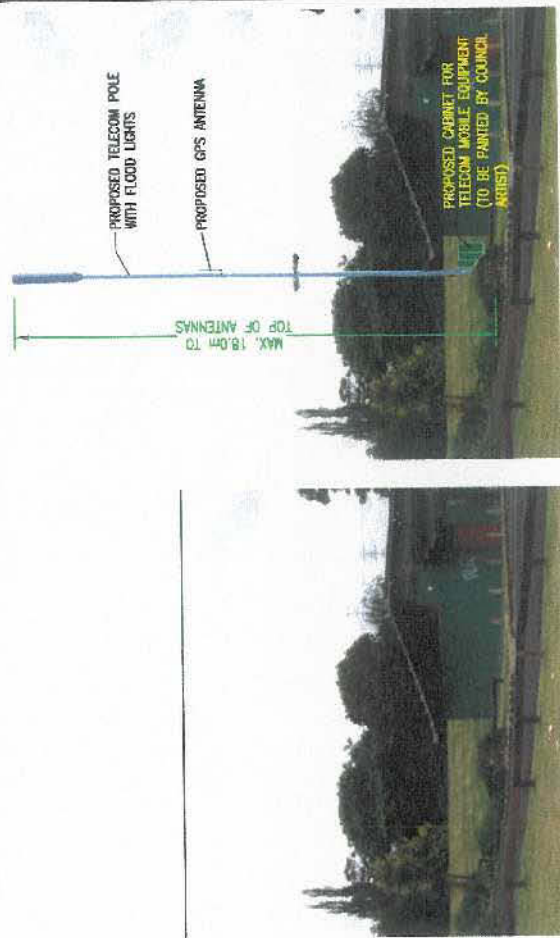
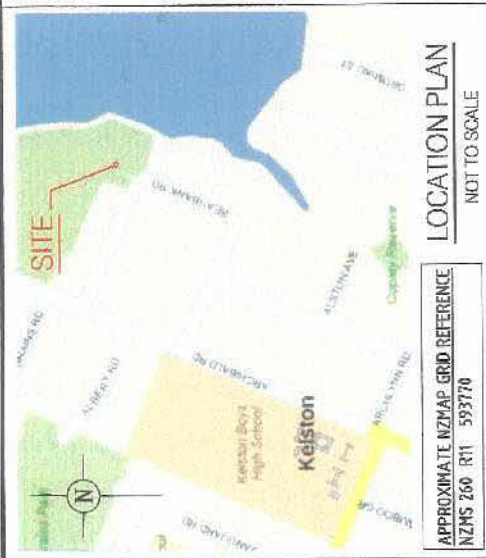
Power Pylon Towers near Archibald Park

Power pylon towers were considered as possible locations for antennas. Agreement with the tower owners could not be achieved.

Should you have any queries, please do not hesitate to contact the writer.

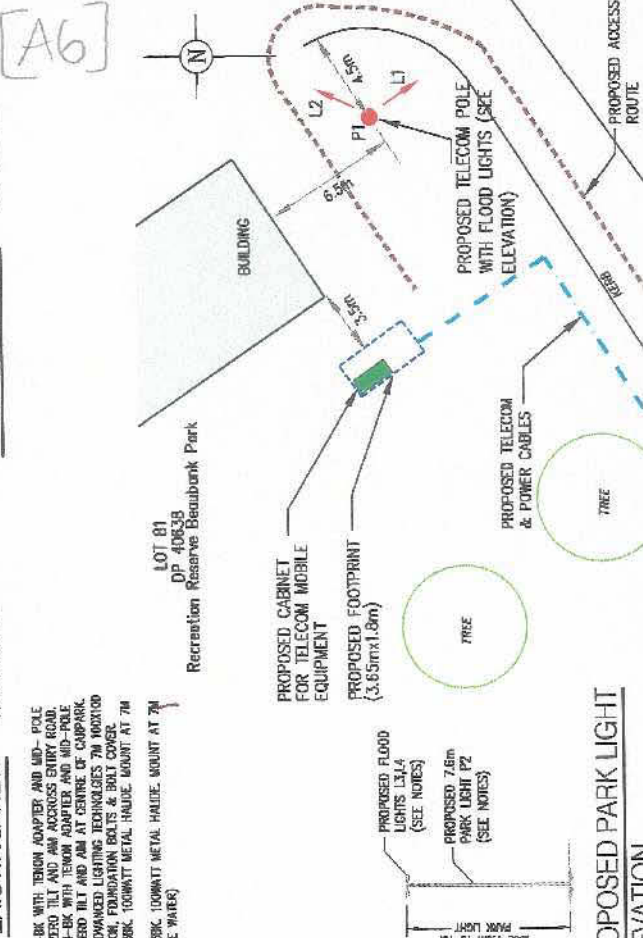
Yours faithfully

Mariene Peters
Acquisition Project Manager



PROPOSED VIEW
NOT TO SCALE

EXISTING VIEW
NOT TO SCALE

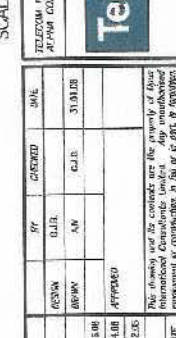
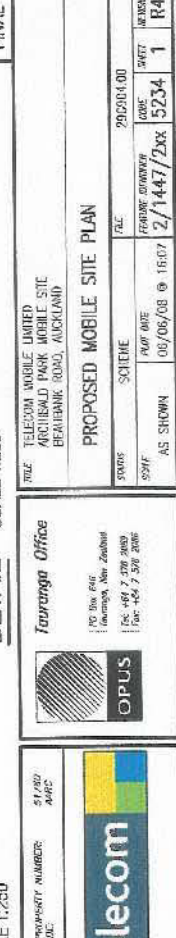


NOTES:
 P1: POLE 1 (TELECOM POLE)
 L1: ADVANCED LIGHTING TECHNOLOGIES BUILD 1410-53-BK WITH TERNUM ADAPTER AND MID-POLE
 L2: ADVANCED LIGHTING TECHNOLOGIES BUILD 1410-53-BK WITH ZERO TILT AND AM ADAPTER AND MID-POLE
 L3: ADVANCED LIGHTING TECHNOLOGIES BUILD 1410-53-BK WITH TERNUM ADAPTER AND MID-POLE
 BRACKETS, 100 WATT METAL HALIDE, MOUNT AT 7M WITH ZERO TILT AND AM AT CENTRE OF CARPARK
 P2: POLE 2 (REPLACEMENT POLE BESIDE BOAT RAMP) - ADVANCED LIGHTING TECHNOLOGIES 7M 1000W
 DELTAJARD ROAD RIS COLUMN WITH CONCRETE FOUNDATION, FOUNDATION BOLTS & BOLT COVER
 L3: ADVANCED LIGHTING TECHNOLOGIES BUILD 1410-53BK, 100WATT METAL HALIDE, MOUNT AT 7M
 WITH ZERO TILT AND AM AT CENTRE OF CARPARK
 L4: ADVANCED LIGHTING TECHNOLOGIES BUILD 1410-53BK, 100WATT METAL HALIDE, MOUNT AT 7M
 WITH ZERO TILT AND AM OPPOSITE TO L3 (4m TOWARDS THE WATER)



PROPOSED ELEVATION
SCALE 1:250

PROPOSED ELEVATION
SCALE 1:250



PLAN SCALE 1:1000

NOTES:
 Details shown are indicative only and are subject to final survey, design and construction.
 Scale 1:1000 N
 Scale 1:250
 Scale 1:500

NO.	DATE	BY	CHKD	DATE
01	05/08/08	AN	AN	31/01/08
02	05/08/08	AN	AN	31/01/08
03	05/08/08	AN	AN	31/01/08
04	05/08/08	AN	AN	31/01/08

TELECOM PROPERTY NUMBER: 517400
ALPINE CLOUD

Telecom

OPUS

Tauranga Office
 170 The Pier
 Tauranga, New Zealand
 Tel: +64 7 559 2000
 Fax: +64 7 559 2006

TELECOM MOBILE LIMITED
 ARCHWOLD PARK MOBILE SITE
 BEAUBANK ROAD, AUCKLAND

PROPOSED MOBILE SITE PLAN

STATUS	DATE	FILE	SCALE	DATE	BY	CHKD
AS SHOWN	00/06/08 @ 15:07	2/1447/20x	5234	1	AN	AN

20/04/00

FINAL

