

Attachment 1

Tauranga Eastern Arterial Designation

Alterations to Designation

- Domain Interchange
- Bell Road Realignment
- OnTrack – (Domain Road airspace)
- Temporary Contractors Areas at 503 Bell Road, 546 Pah Road and 54 Te Tumu Road, and part of 117 Bell Road
- Te Tumu-Maketu Roads, withdrawal of land at Te Puke Golf Club and insertion of Cycleway from Papamoa East to Te Tumu Road
- OnTrack – Maketu Road

"TAURANGA EASTERN ARTERIAL" DESIGNATION

The following sets out the terms and conditions of Transit New Zealand's designation as confirmed for the project known as "State Highway 2 (Tauranga Eastern Arterial)". Please note that the various changes made through the processes of the Resource Management Act 1991 ("RMA") from Commissioner recommendation under section 171, through decision on that recommendation by Transit, and finally by decisions on appeals by the Environment Court are shown by way of tracked changes:

- Transit's changes to terms and conditions as recommended by the Commissioner are shown:
 - (a) By red text for additions, thus: additions;
 - (b) By red strike through, for deletions, thus: ~~strike through~~;
- The Environment Court's changes to Transit's decision are shown:
 - (a) By blue text for additions, thus: additions;
 - (b) By blue strike through, for deletions, thus: ~~strike through~~.

Requiring authority

- A Transit New Zealand ("Transit").

Designation purposes and footprint

- B An alteration to the existing designation of State Highway 2 for a road (known as the Tauranga Eastern Arterial) for the purposes of operating a State highway including the planning, design, supervision, construction, maintenance and control of access in accordance with the Transit NZ Act 1989 between metreage 0.00 and 6400.00 and between metreage 6900.00 and 16800.00. The land subject to the foregoing designations is as shown on Beca Carter Hollings & Ferner Ltd designation requirement plans, job reference number 9391240_P007 (revision A), P008 (revision A), P009 (revision C), P010 (revision D), P011 (revision B), P012 (revision C), P013 (revision B), P014 (revision B), P015 (revision D), P016 (revision D), P017 (revision E), P018 (revision G), P043 (revision B), P044 (revision B) and SK10 (revision C) drawing numbers P007, P012 and amended drawings 9391240/SK10 (revision C), P018 (revision C), P043 & P044 (both revision A)

Conditions

Lapsing period

- 1 ~~Subject to Section 184(2) of the Resource Management Act 1991 the designations shall lapse on the expiry of 10 years after the date on which they are included in the Tauranga and Western Bay of Plenty District Plans or the date at which a review of the respective District Plans (or relevant sections thereof) is publicly notified, whichever of the foregoing dates occurs last. Pursuant to Section 184(2)(c) of the Resource Management Act 1991 the designation shall lapse on the expiry of 20 years after the date on which it is included in the Tauranga and Eastern Bay of Plenty District Plans.~~

Construction Management Plan

- 2 Prior to the commencement of any earthworks or construction activity on the designation site (excluding site investigations) the Requiring Authority shall prepare a Construction Management Plan and submit that plan to the principal administrative officer (or authorised delegate) of the Western Bay of Plenty District Council in that District and the principal administrative officer (or authorised delegate) of the Tauranga District Council in that district. The Construction Management Plan shall include the procedures, methods and measures to be applied to address the following:

- (a) The exclusion of the public from the construction site;
- (b) Dust arising due to construction;
- (c) ~~Protection of any existing vegetation within the designation boundary which will be retained following the completion of construction.~~ Protection of the vegetation that is identified in the Landscape and Rehabilitation Plan as vegetation is to be retained. For the purposes of this condition "the Landscape and Rehabilitation Plan" means the plan to be prepared pursuant to condition 5 of this designation;
- (d) Prior notification to landowners of the use of machinery likely to generate vibration effects to dwellings where such vibrations may be felt and the process to be followed to ensure that such effects are addressed;
- (e) Maintenance of road and property access during construction;
- (f) The intended use and movement of construction traffic on local roads, including:
 - (i) measures to ensure the need to use local roads is minimised;

- (ii) identification of which local roads are intended to be used;
- (iii) proposed traffic management measures to be implemented in conjunction with the use of local roads;

~~(iv) proposed upgrading of local roads prior to construction works commencing so as to provide sufficient capacity to accommodate anticipated traffic volumes;~~

~~(iv) proposed standard of post construction reinstatement/rehabilitation of local roads to repair damage or deterioration caused during construction, a process for measuring and repairing damage to local roads caused by the construction of the project.~~

- (g) Hours of operation by trucks and service vehicles;
- (h) Parking of workers' vehicles; and
- (i) A single point of contact to field general inquiries and complaints from the public.

3 (a) Prior to the commencement of construction, the Requiring Authority will instruct an engineer, nominated by the Requiring Authority and acceptable to Western Bay of Plenty District Council, to determine:

(i) The expected remaining life of the local roads in the Western Bay of Plenty District that are to the north east of the existing State highway 2 between Domain Road and the State highway 2/33 junction and that have been identified pursuant to condition 2(f)(ii) above as local roads which are intended to be used by construction traffic for the project ("Construction Roads"); and

(ii) The works, if any, to be undertaken by the Requiring Authority to ensure that during the construction of the project the Construction Roads will meet the road width standards in Western Bay of Plenty District Council's subdivisional code of practice (widening works section).

(b) During the construction of the project, the Requiring Authority will maintain the Construction Roads to the local road maintenance standards in Western Bay of Plenty District Council's 10-year road maintenance contract, Performance Based contract No.001 or any

subsequent road maintenance contract as agreed between Transit and WBOPDC.

- (c) Following the construction of the project, the Requiring Authority will instruct an engineer, nominated by the Requiring Authority and acceptable to Western Bay of Plenty District Council, to determine the works to be undertaken to ensure that the Construction Roads have the same expected life as they had at the commencement of the construction of the project.

Advice note: If, following the construction of the project, Western Bay of Plenty District Council wishes the Construction Roads to be upgraded so that they have a longer expected life than they had at the commencement of construction of the project then Western Bay of Plenty District Council will pay the additional costs of doing so.

Standard of construction of new local roads

- 4 Standard of construction of the new local roads and the currently unformed section of Kaituna Road shall be in accordance with the standards for rural roads set out in the Western Bay of Plenty Operative District Plan and Code of Practice for Subdivision and Development.

Landscaping

- 5 Not less than six months prior to the commencement of construction, the Requiring Authority shall prepare a Landscape and Rehabilitation Plan which identifies the rehabilitation, planting and landscaping proposals to be implemented and maintained to mitigate the visual and landscape effects of the project. The plan shall be to the satisfaction of the principal administrative officer (or authorised ~~delegated~~ delegate) of the Western Bay of Plenty District Council for the landscaping in that District and the principal administrative officer (or authorised delegate) of the Tauranga District Council for the landscaping in that district. The plan:

5.1 Shall be based on the preliminary landscape and visual mitigation plans outlined in the following documents:

- (a) Requirements by Transit New Zealand for Designation of State Highway 2 (Tauranga Eastern Arterial) and Tauranga District Council for Bell Road Interchange Volumes 1, 2 & 3: August 1999 prepared for Transit New Zealand and Tauranga District Council by Beca Carter Hollings and Ferner Ltd., and particularly the Concept Landscape and Mitigation Plans - Figures 5.7, 5.8, 5.9, 5.10 and 5.11 (Plans 1 - 5) prepared by LA4 Landscape Architects contained in that document.
- (b) Requirements by Transit New Zealand for Designation of State Highway 2 (Tauranga Eastern Arterial) and Tauranga

District Council for Bell Road Interchange: December 2000 prepared for Transit New Zealand and Tauranga District Council by Beca Carter Hollings and Ferner Ltd., and particularly the Concept Landscape and Mitigation Plans prepared by LA4 Landscape Architects contained in that document.

- (c) The revised landscape and visual mitigation plans Figures 5.9 and 5.10 and Viewpoint 3 photomontage, ~~and the cross-section and proposed landscape mitigation for the Cressey property - 339 Bell Road, Figure A.~~ proposed landscape mitigation for the Cressey property - 399 Bell Road, Figure A and Noise & Landscaping Mitigation Cressey Property, Bell Road, Drawing No. 9301240/P049 Rev. A.

5.2 The plan shall include:

- (a) ~~The identification of the vegetation that exists within the boundaries of the designation at the time the Landscape and Rehabilitation Plan is prepared that is to be retained;~~ A section that identifies which of the vegetation that exists within the boundaries of the designation at the time the Landscape and Rehabilitation Plan is prepared is to be retained;
- (b) A schedule of the species to be planted including botanical name, average plant size at the time of planting, planting density, and average mature height for each;
- (c) Integration of cut and fill batters with existing topographical features;
- (d) A description of the methods that will be used to ensure that the planting does not interfere with the operation of electricity transmission lines;
- (e) The measures to be undertaken to rehabilitate the soil profile so as to provide a viable growing medium in the areas to be planted;
- (f) Provision for an inspection to be undertaken at 2 and 5 years after completion of the initial planting to confirm that the landscaping has been completed and the plants have become established and provision for remediation works to be undertaken if those inspections identify that any plants have not become established.

- 6 The Landscape and Rehabilitation Plan shall be implemented:
- Wherever practicable prior to construction works actually commencing; and
 - In the planting season immediately following the time at which any land affected by construction becomes free from construction works or construction related activities.

Northern Oxbow Planting

- 7 The margins of the "northern oxbow" at the eastern end of Bell Road as shown on BCHF Ltd plan ref. no. 9301240/P048 (revision A) shall be planted in appropriate native species so as to form a ~~minimum~~ 10m wide riparian buffer for ecological protection. ~~A plan of such planting shall be submitted for the approval of Transit shall prepare a plan of such planting. The plan shall be to the satisfaction of the principal administration officer~~ (or authorised delegate) of the Western Bay of Plenty District Council and shall be implemented no later than the commencement of construction works in the vicinity of the oxbow. ~~Certification from a suitably qualified and experienced ecologist confirming that the planting has been established in accordance with the approved plan shall be submitted to the Council prior to construction works commencing.~~

Hydrology

- 8 The water level in the peat layer shall be monitored monthly at the outer limit of the construction at eight locations, four on each side of the proposed construction works, spread along the section between the Kaituna River and Kaituna Road. These boreholes shall be grouped in pairs opposite each other, one on each side of the construction. Monitoring shall start twelve months prior to the commencement of the construction of the road and attenuation barrier from the Kaituna River to Kaituna Road and finish 12 months after the section of road between the Kaituna River and Kaituna Road, or any part of it, is first opened to the public for use by vehicular traffic. In the event that, during the period within which monitoring is undertaken pursuant to this condition, there is:

- ~~a rise of more than 300 mm in water level above the previous season maximum water level on the western side of the road; or on the western side of the road, a rise of more than 300 mm in water level above the maximum water level during the same season in the previous year; or~~
- ~~a fall in water level of 300 mm below the previous season minimum water level on the eastern side of the road; or on the eastern side of the road, a fall in water level of 300mm below the minimum water level during the same season in the previous year; or~~

- more than a 100mm change in relative water levels across the construction compared with relative levels for the same season pre-construction,

the Requiring Authority shall either increase or reduce permeability in the construction works as appropriate, or undertake such other practicable methods as are appropriate, to keep the change in water level within this specified range for the remainder of the monitoring period.

For the purposes of this condition "season" means a meteorological season, i.e. winter, spring, summer or autumn. "Winter" means the period between 1 June and 31 August in any year. "Spring" means the period between 1 September and 30 November in any year. "Summer" means the period between 1 December in one year and the last day of February in the following year. "Autumn" means the period between 1 March and 31 May in any year.

Advice Note

Up to the time that work commences in this section, Transit is to be advised by the Department of Conservation in advance of any works proposed to be carried out within the Kaituna Reserve which may affect the hydrology within the designated corridor of the section from the Kaituna River to Kaituna Road.

Attenuation barrier

- 9 There shall be an ~~attenuation~~ a barrier constructed on the eastern side of the road from metrage 8400 (being where the road joins the southern stopbank of the Kaituna River) and extending 150m south of Kaituna Road. Such barrier shall have a minimum height of 3.1m above road carriageway level. The species to be planted on the barrier shall be similar to and compatible with those species specified in the Kaituna Reserve Management Plan if such a plan is in force. Choice of species shall be determined following consultation with the Department of Conservation. ✓
- 10 A 2m high solid fence approximately 150m long shall be erected on the approach embankment to the southern stopbank of the Kaituna River to maintain the ~~attenuation~~ barrier 3.1m above the carriageway.

Noise

- 11 During the construction of the proposed Tauranga Eastern Arterial the requirements of NZS 6803:1999 Acoustics – Construction Noise shall be complied with.
- 12 Prior to the commencement of any construction works a Noise Management plan shall be provided to the Tauranga and Western Bay of Plenty District Councils that demonstrates how the provisions of NZS 6803:1999 Acoustics – Construction Noise will be complied with.

13 The works shall be designed and constructed in accordance with Transit New Zealand Guidelines for the Management of Road Traffic Noise for State Highway Improvements December 1999, in particular traffic noise from the Tauranga Eastern Arterial shall not exceed 55 dBA (24 hour L_{eq}) or the existing ambient level, whichever is the higher, for the design year (10 years after the opening of the new alignment) as measured at any dwelling. Prior to the construction of the project, the Requiring Authority shall prepare a Noise Survey Plan to the satisfaction of the principal administrative officer (or authorised delegate) of the Western Bay of Plenty District Council for that district and the principal administrative officer (or delegate) of the Tauranga District Council for that district. The Plan shall contain:

(a) The details of an ambient noise survey at selected locations over the length of the project. The purpose of the survey shall be to determine the current ambient sound levels for each selected location in order to determine the design levels for the purposes of the Transit New Zealand Guidelines for the Management of Road Traffic Noise. The results of the ambient noise survey shall be forwarded to Western Bay of Plenty District Council and Tauranga District Council within one month of completion.

(b) A plan showing the location of all residential buildings and educational facilities existing as at the date of the commencement of the designation, which are located within or in the vicinity of the designation boundaries and that will potential experience increased noise levels as a result of the operation of the project.

Public Information

14 Between the time this designation is included in the district plan and the completion of the construction of the Tauranga Eastern Arterial and the Bell Road Interchange, the requiring authority in conjunction with the Tauranga District Council shall prepare and distribute at least annually (and more frequently during construction) a public information pamphlet to owners of land in the vicinity of the Tauranga Eastern Arterial and the Bell Road Interchange. The pamphlet shall advise on progress in relation to the planning and construction (including any proposed staging) of the Tauranga Eastern Arterial and the Bell Road Interchange.

DESIGNATION AS TO ASSOCIATED ACCESS ROADS

The following sets out the terms and conditions of Transit New Zealand's designation as confirmed for the project known as "State Highway 2 (Tauranga Eastern Arterial)". Please note that the various changes made through the processes of the Resource Management Act 1991 ("RMA") from Commissioner recommendation under section 171, and through decision on that recommendation by Transit. It is noted that the Environment Court has made no changes to Transit's decision.

- Transit's changes to terms and conditions as recommended by the Commissioner are show:

(a) By red text for additions, thus: additions;

(b) By red strike through, for deletions, thus ~~strike through~~.

Requiring authority

A Transit New Zealand ("Transit").

Designation purposes and footprints

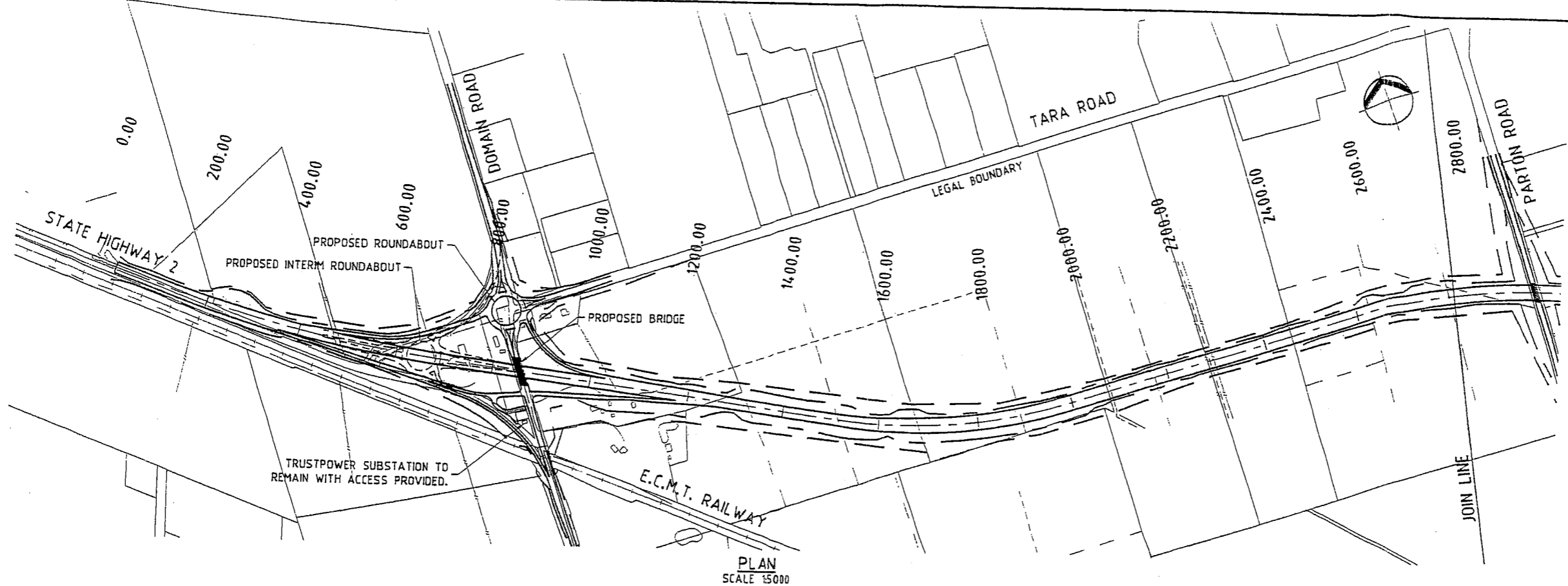
B As follows:

- 1) A new designation for road for the purposes of access from Bell Road to the Kaituna River Boat ramp;
- 2) A new designation for road for the purposes of access from Pah Road to Kaituna road; and
- 3) The formation of Kaituna Road from Te Tumi Road in a south westerly direction.

The land subject to the foregoing designations is as shown on Beca Carter Hollings & Ferner Ltd designation requirement plans, job reference number 9301240 P007 (revision A), P008 (revision A), P009 (revision C), P010 (revision D), P011 (revision B), P012 (revision C) P013 (revision B), P014 (revision B), P015 (revision D) P016 (revision D), P017 (revision e), P018 (revision G), P043 (revision B), P044 (revision B) and SK10 (revision C). ~~-9391240, drawing numbers P007-P012 and amended drawings 9391240/SK10 (revision C), P018 (revision G), P043 & P044 (both revision A).~~

Condition for each of the three designations for the local access roads

- 1 Pursuant to Section 184(2)(c) of the Resource Management Act 1991 the designation shall lapse on the expiry of 20 years after the date on which it is included in the District Plan.



PLAN
SCALE 1:5000

LEGEND

- EDGE OF SEAL
- - - - - EXTENT OF BATTERS
- - - - - DESIGNATION REQUIREMENT
- - - - - CENTRELINE OF ALIGNMENT
- - - - - EXISTING FENCE
- - - - - EXISTING RAILWAY TRACK
- - - - - EXISTING DRAIN
- - - - - EXISTING TRACK

| | | | | | | | | | | | | | | |
|----------------------|-----------------------------------|--------|--|--------|---|---------|-------------------------------|---------|--|---------|-------------------------------|---------|--|--|
| DATUM RL = -5.00m | | | | | | | | | | | | | | |
| DESIGN SURFACE | 7.83 | 8.81 | 7.65 | 6.60 | 7.72 | 8.91 | 9.47 | 8.07 | 6.65 | 5.70 | 5.40 | 5.40 | 5.40 | |
| EXISTING SURFACE | 8.96 | 8.00 | 6.24 | 5.05 | 6.07 | 10.28 | 13.00 | 5.87 | 4.97 | 4.39 | 3.80 | 3.87 | 5.40 | |
| DISTANCE | 0.00 | 200.00 | 400.00 | 600.00 | 800.00 | 1000.00 | 1200.00 | 1400.00 | 1600.00 | 1800.00 | 2000.00 | 2200.00 | 2400.00 | |
| VERTICAL ALIGNMENT | TANGENT 14.5m @ 0.65% | | VERTICAL CURVE L=250m K=126.25 A=-1.98% | | VERTICAL CURVE L=250m K=129.71 A=1.93% | | TANGENT 4.05m @ 0.60% | | VERTICAL CURVE L=250m K=180.26 A=-1.39% | | TANGENT 210m @ -0.79% | | VERTICAL CURVE L=480m K=606.59 A=0.79% | |
| | TANGENT 28.95m @ 378d47'55" | | CURVE L=669.72m R=3000.00m | | TANGENT 886.74m @ 331d35'22" | | CURVE L=501.62m R=1100.00m | | TANGENT 576.93m @ 357d43'2" | | CURVE L=504.26m R=1200.00m | | VERTICAL CURVE L=200m K=1600.00 A=-0.13% | |
| HORIZONTAL ALIGNMENT | | | | | | | | | | | | | | |

LONG SECTION
HORIZONTAL SCALE 1:5000
VERTICAL SCALE 1:1000

- NOTES:-
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 3. DTM DATA AND AERIAL PHOTOGRAPHY SUPPLIED BY NEW ZEALAND AERIAL MAPPING LTD.
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Beca Carter Hollings & Ferner Ltd.
Consulting Engineers
Auckland, Wellington, Christchurch, New Plymouth, Tauranga, Melbourne, Sydney, Port Moresby, Jakarta, Singapore, Brunei.

Designed: [Signature] Approved for Construction: [Signature]
Drawn: CAD
Traced: CAD
Dwg Check: [Signature]
Dwg Check Date: [Date]



TAURANGA
EASTERN ARTERIAL
CIVIL

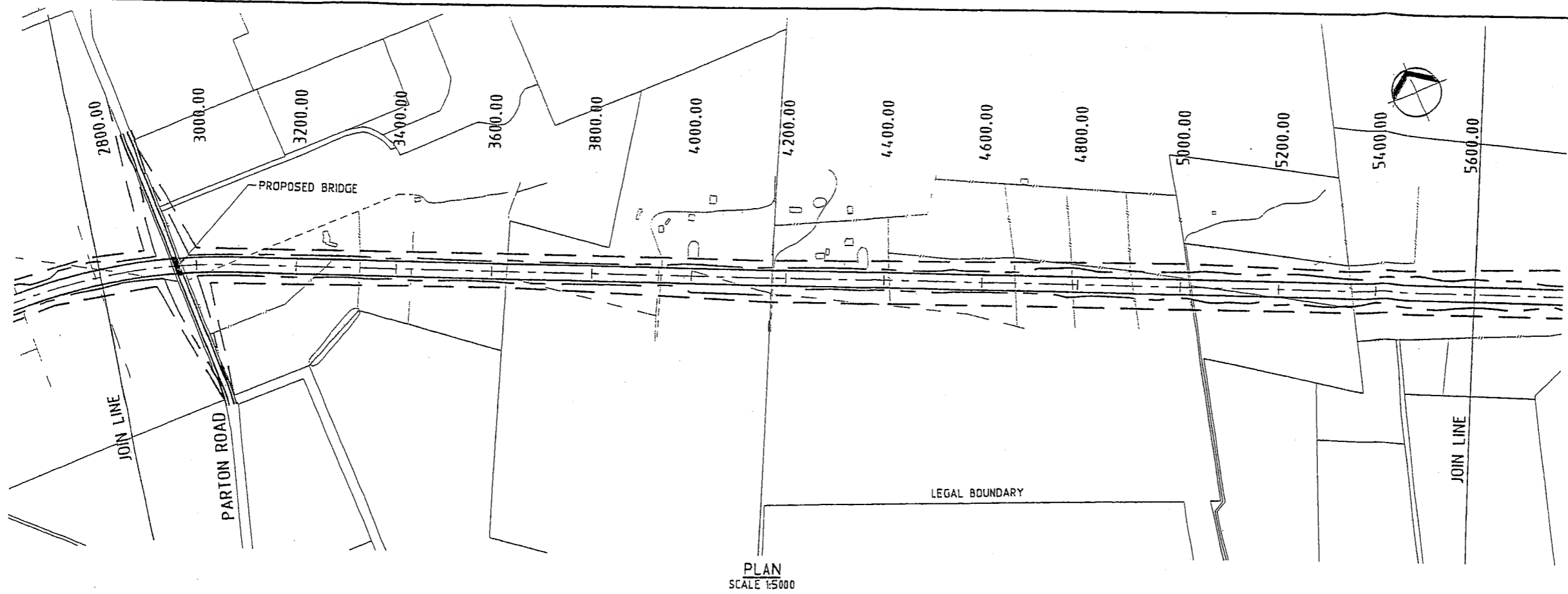
DESIGNATION
REQUIREMENT PLAN
SHEET 1 OF 6

Job No. 9301240
Rev. P007

Beca Carter Hollings & Ferner

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CAD DRG. No. P:\313\B24\CAD\1240.DWG



PLAN
SCALE 1:5000

LEGEND

- EDGE OF SEAL
- - - - - EXTENT OF BATTERS
- - - - - DESIGNATION REQUIREMENT
- - - - - CENTRELINE OF ALIGNMENT
- - - - - EXISTING FENCE
- - - - - EXISTING RAILWAY TRACK
- - - - - EXISTING DRAIN
- - - - - EXISTING TRACK

VPI @ 2900.00
RL = 5.15m

DESIGN SURFACE
EXISTING SURFACE

| | | | | | | | | | | | | | | | |
|----------------------|---|--|---------|--|---------|--|---------|--|---------|--|---------|--|---------|--|---------|
| DATUM RL = -5.00m | | | | | | | | | | | | | | | |
| DESIGN SURFACE | 5.28 | | 5.15 | | 5.15 | | 5.15 | | 5.15 | | 5.15 | | 5.15 | | 5.15 |
| EXISTING SURFACE | 3.74 | | 4.00 | | 4.97 | | 4.82 | | 4.82 | | 3.64 | | 2.00 | | 3.39 |
| DISTANCE | 2800.00 | | 3000.00 | | 3200.00 | | 3400.00 | | 3600.00 | | 3800.00 | | 4000.00 | | 4200.00 |
| VERTICAL ALIGNMENT | VERTICAL CURVE L=200m K=1600.00 A=0.13% TANGENT 4890m @ 0.00% | | | | | | | | | | | | | | |
| HORIZONTAL ALIGNMENT | CURVE L=504.26m R=1200.00m TANGENT 3728.63m @ 333438'26" | | | | | | | | | | | | | | |

NOTES:-

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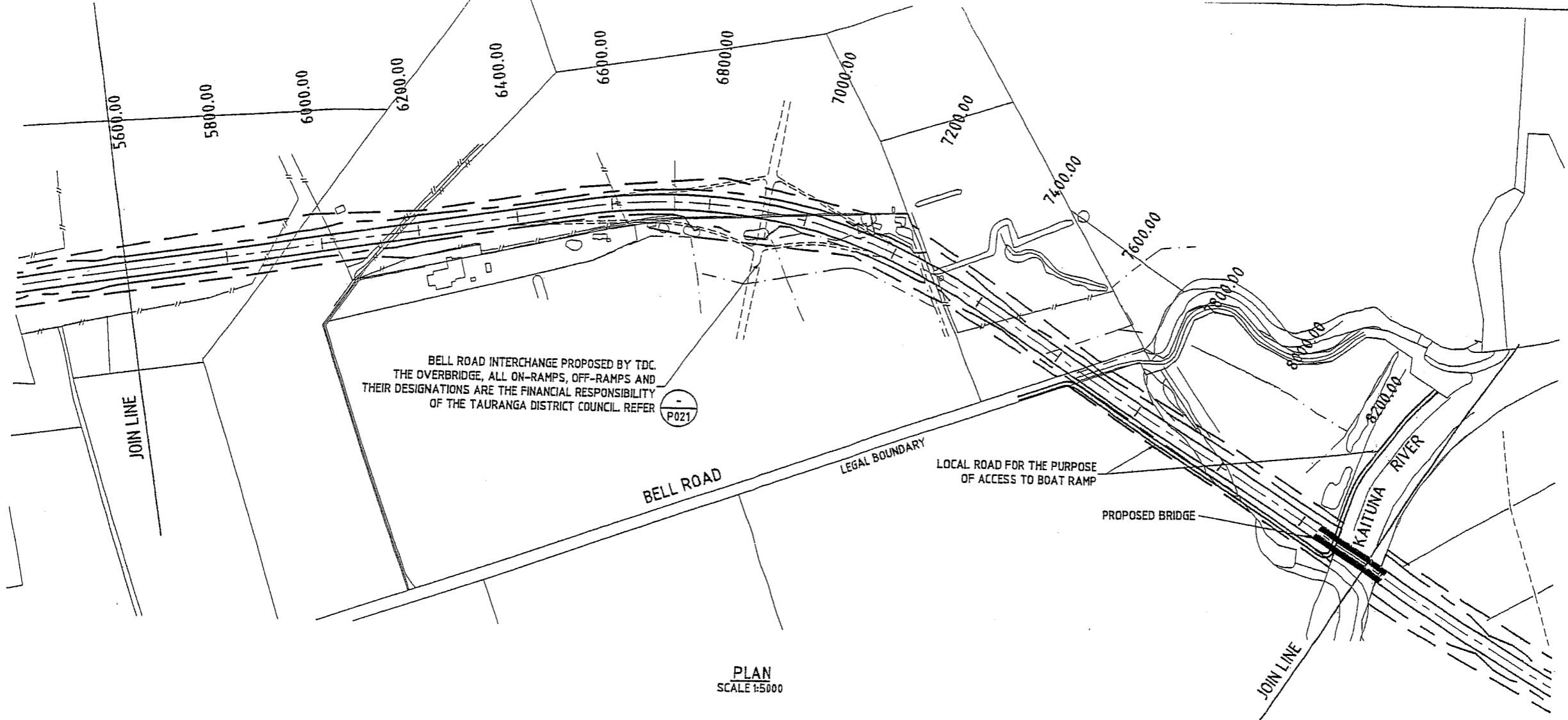
LONG SECTION
HORIZONTAL SCALE 1:5000
VERTICAL SCALE 1:1000

| | | | | | | | |
|--|--|---|---|---|---------------------------------------|---|--|
| No. _____ A FOR DESIGNATION _____ Revision _____ Add Date _____ | Beca Carter Hollings & Ferner Ltd. Auckland, Wellington, Christchurch, New Plymouth, Tauranga, Melbourne, Sydney, Port Moresby, Jakarta, Singapore, Brunei. Consulting Engineers | Designed <input checked="" type="checkbox"/> Drawn <input checked="" type="checkbox"/> Traced <input checked="" type="checkbox"/> CAD Sign _____ Dwg Check _____ Date _____ Dra Check _____ Date _____ | Approved for Construction _____ Scale as shown 1:5000/1000 Reduced Drawing 1:10000/2000 | TRANSIT NEW ZEALAND EAST AFRICAN & OCEANIA | TAURANGA EASTERN ARTERIAL CIVIL | DESIGNATION REQUIREMENT PLAN SHEET 2 OF 6 | Job No. 9301240 Dir. No. P008 Rev. <input checked="" type="checkbox"/> A |
|--|--|---|---|---|---------------------------------------|---|--|

Beca Carter Hollings & Ferner

Beca Carter Hollings & Ferner

CAD DRG. No. P:\P\9301240\CON\1240R08



PLAN
SCALE 1:5000

LEGEND

- EDGE OF SEAL
- - - EXTENT OF BATTERS
- - - DESIGNATION REQUIREMENT
- - - CENTRELINE OF ALIGNMENT
- - - EXISTING FENCE
- - - EXISTING RAILWAY TRACK
- - - EXISTING DRAIN
- - - EXISTING TRACK

| | 5600.00 | 5800.00 | 6000.00 | 6200.00 | 6400.00 | 6600.00 | 6800.00 | 7000.00 | 7200.00 | 7400.00 | 7600.00 | 7800.00 | 8000.00 | 8200.00 | | |
|----------------------|------------------------------|---------|---------|---------|---------|-------------------------------|---------|---------|---------|---------|--|---------|--------------------------|---------|--|------------------------|
| DESIGN SURFACE | 5.15 | 5.15 | 5.15 | 5.15 | 5.15 | 5.15 | 5.15 | 5.15 | 5.15 | 5.15 | 5.15 | 5.15 | 5.43 | 6.81 | | |
| EXISTING SURFACE | 9.36 | 7.60 | 9.95 | 6.50 | 7.52 | 7.16 | 6.37 | 5.07 | 1.81 | 6.47 | 1.27 | 2.83 | 4.07 | 9.50 | | |
| DISTANCE | 5600.00 | 5800.00 | 6000.00 | 6200.00 | 6400.00 | 6600.00 | 6800.00 | 7000.00 | 7200.00 | 7400.00 | 7600.00 | 7800.00 | 8000.00 | 8200.00 | | |
| VERTICAL ALIGNMENT | TANGENT 4.758m @ 0.00% | | | | | | | | | | VERTICAL CURVE L=14m K=777 A=777 | | TANGENT 4.28m @ 1.00% | | VERTICAL CURVE L=97m K=777 A=777 | TANGENT 56m @ 0.00% |
| HORIZONTAL ALIGNMENT | TANGENT 3448.82m @ 77d77" | | | | | CURVE L=848.31m R=1150.00m | | | | | TANGENT 1349.56m @ 77d77" | | | | | |

VERTICAL CURVE
L=94m K=777
A=777

LONG SECTION
HORIZONTAL SCALE 1:5000
VERTICAL SCALE 1:1000

NOTES:-

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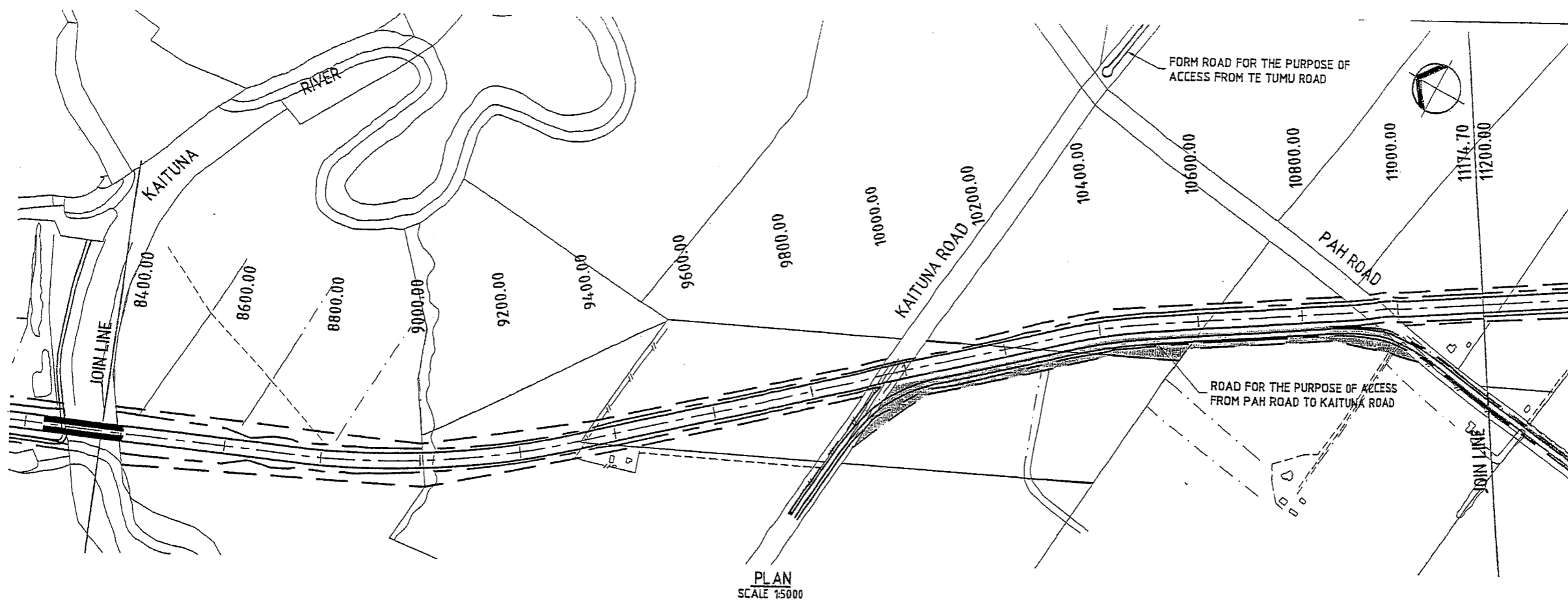
| | | |
|-----|--|------------|
| No. | Revision | Date |
| C | MINOR CHANGES TO ACCESS ROAD DESCRIPTION | 12/12/2009 |
| B | ALIGNMENT AMENDED TO AVOID RESERVE | 10/12/2009 |
| A | FOR DESIGNATION | 11/12/2009 |

Beca Carter Hollings & Ferner Ltd.
Consulting Engineers
Auckland, Wellington, Christchurch, New Plymouth, Tauranga, Melbourne, Sydney, Port Moresby, Jakarta, Singapore, Brunei.

| | | | |
|-----------|-----|---------------------------|----------------|
| Designed | SJF | Approved for Construction | Scale as drawn |
| Drawn | BL | Sign | 1:5000/1000 |
| Traced | CAD | Reduced Drawing | 1:10000/2000 |
| Day Check | SJF | Date | |



| | | |
|---------------------------|------------------------------|------------------|
| TAURANGA EASTERN ARTERIAL | DESIGNATION REQUIREMENT PLAN | Job No. 930124.0 |
| CIVIL | SHEET 3 OF 6 | Rev. P009 |

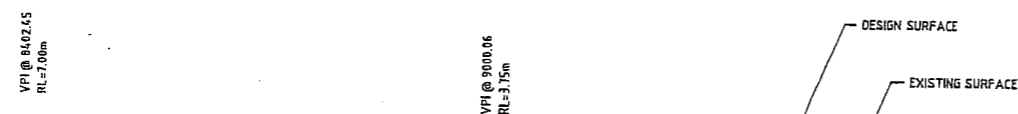


PLAN
SCALE 1:5000

LEGEND

- EDGE OF SEAL
- - - EXTENT OF BATTERS
- - - DESIGNATION REQUIREMENT
- - - CENTRELINE OF ALIGNMENT
- - - EXISTING FENCE
- - - EXISTING RAILWAY TRACK
- - - EXISTING DRAIN
- - - EXISTING TRACK
- - - LEGAL BOUARDRY

AREA OF LOCAL ROAD TO BE DESIGNATED FOR THE PURPOSE OF ACCESS



| DESIGN SURFACE | | EXISTING SURFACE | | DISTANCE | | VERTICAL ALIGNMENT | | HORIZONTAL ALIGNMENT | |
|----------------|------|------------------|------|----------|----------|--|-------------------------------|----------------------|------|
| 7.00 | 6.20 | 0.66 | 1.76 | 8400.00 | 8600.00 | VERTICAL CURVE L=94m K=5777 A=777 | TANGENT 1349.56m @ 77d?? | 3.90 | 3.75 |
| 3.90 | 3.75 | 1.47 | 1.66 | 8800.00 | 9000.00 | VERTICAL CURVE L=570m K=7377 A=1.00% | CURVE L=587.81m R=1750.00m | 3.75 | 3.75 |
| 3.75 | 3.75 | 1.45 | 1.65 | 9200.00 | 9400.00 | VERTICAL CURVE L=16m K=??? | TANGENT 999.5m @ 77d?? | 3.75 | 3.75 |
| 3.75 | 3.75 | 1.45 | 1.70 | 9600.00 | 9800.00 | TANGENT 3561.7m @ 0.00% | CURVE L=172.15m R=1150.00m | 3.75 | 3.75 |
| 3.75 | 3.75 | 2.31 | 2.84 | 10000.00 | 10200.00 | TANGENT 3710.56m @ 302d2'36" | | 3.75 | 3.75 |
| 3.75 | 3.75 | 2.84 | 1.99 | 10400.00 | 10600.00 | | | 3.75 | 3.75 |
| 3.75 | 3.75 | 3.10 | 1.49 | 10800.00 | 11000.00 | | | 3.75 | 3.75 |
| 3.75 | 3.75 | 1.49 | 1.65 | 11200.00 | | | | 3.75 | 3.75 |

LONG SECTION
HORIZONTAL SCALE 1:5000
VERTICAL SCALE 1:1000

- NOTES:-
1. CROWN COPYRIGHT RESERVED. LEGAL BOUNDARY INFORMATION REPRINTED WITH PERMISSION OF TAURANGA DISTRICT COUNCIL LICENCE No. HN/033523 & WESTERN BAY OF PLENTY DISTRICT COUNCIL LICENCE No. HN35220003.
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 3. DTM DATA AND AERIAL PHOTOGRAPHY SUPPLIED BY NEW ZEALAND AERIAL MAPPING LTD.
 4. FLOOD LEVEL DATA SUPPLIED BY ENVIRONMENT B.O.P.

| | | | |
|-----|--|-----|---------|
| D | MINDR CHANGES TO ACCESS ROAD DESCRIPTIONS | JFH | 4.3.99 |
| C | ALIGNMENT AMENDED TO AVOID RESERVE | DRY | 5.5.00 |
| B | LEGAL BOUNDARY ADDED TO LEGEND, KAITUNA RD EXTENSION ADDED | DRY | 12.3.99 |
| A | FOR DESIGNATION | JFH | 4.3.99 |
| No. | Revision | Add | Date |

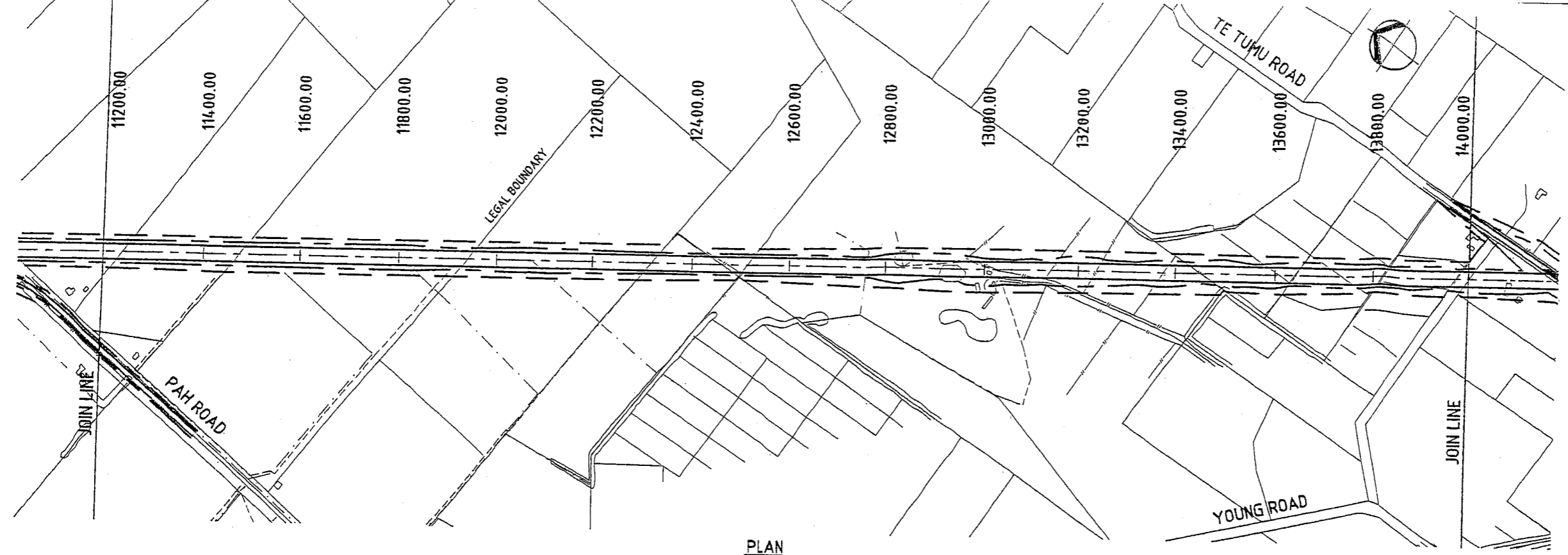
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Consulting Engineers
Auckland, Wellington, Christchurch, New Plymouth, Tauranga, Melbourne, Sydney, Port Moresby, Jakarta, Singapore, Brunel.

| | | | |
|------------|-----|---------------------------|-----------------|
| Designed | SJF | Approved for Construction | Scale as drawn |
| Drawn | BIL | | 1:5000/1000 |
| Traced | CAD | Sign | Reduced Drawing |
| Des. Check | | | 1:10000/2000 |
| Drq. Check | SJF | Date | |



| | | |
|------------------------------|---|--------------------|
| TAURANGA EASTERN ARTERIAL | DESIGNATION REQUIREMENT PLAN SHEET 4 OF 6 | Job No. 9301240 |
| CIVIL | | Rev. P010 |

Beca Carter Hollings & Ferner



PLAN
SCALE 1:5000

LEGEND

- EDGE OF SEAL
- - - - - EXTENT OF BATTERS
- - - - - DESIGNATION REQUIREMENT
- - - - - CENTRELINE OF ALIGNMENT
- - - - - EXISTING FENCE
- - - - - EXISTING RAILWAY TRACK
- - - - - EXISTING DRAIN
- - - - - EXISTING TRACK

DATUM RL = -5.00m

| | | | | | | | | | | | | | | | |
|----------------------|----------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|---|----------|----------|--------------------------|----------|----------|
| DESIGN SURFACE | 3.75 | 3.75 | 3.75 | 3.75 | 3.75 | 3.75 | 3.75 | 3.75 | 3.75 | 4.11 | 5.16 | 6.27 | 7.38 | 8.49 | 9.60 |
| EXISTING SURFACE | 154 | 134 | 110 | 80 | 64 | 69 | 76 | 83 | 93 | 108 | 127 | 150 | 178 | 210 | 246 |
| DISTANCE | 11200.00 | 11400.00 | 11600.00 | 11800.00 | 12000.00 | 12200.00 | 12400.00 | 12600.00 | 12800.00 | 13000.00 | 13200.00 | 13400.00 | 13600.00 | 13800.00 | 14000.00 |
| VERTICAL ALIGNMENT | TANGENT 3760m @ 0.00% | | | | | | | | | VERTICAL CURVE L=250m K=450.53 A=0.55% | | | TANGENT 1360m @ 0.55% | | |
| HORIZONTAL ALIGNMENT | TANGENT 4207.03m @ 302d27'38" | | | | | | | | | | | | | | |

EXISTING SURFACE
DESIGN SURFACE

VI @ 12715.00
RL=3.75m

LONG SECTION
HORIZONTAL SCALE 1:5000
VERTICAL SCALE 1:1000

NOTES:-

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4. FLOOD LEVEL DATA SUPPLIED BY ENVIRONMENT B.O.P.

| | | | |
|-----|-------------------------------|-------|--------|
| No. | Revision | App'd | Date |
| B | TE TUMU ROAD CROSSING AMENDED | JJH | 4.5.99 |
| A | FOR DESIGNATION | | |

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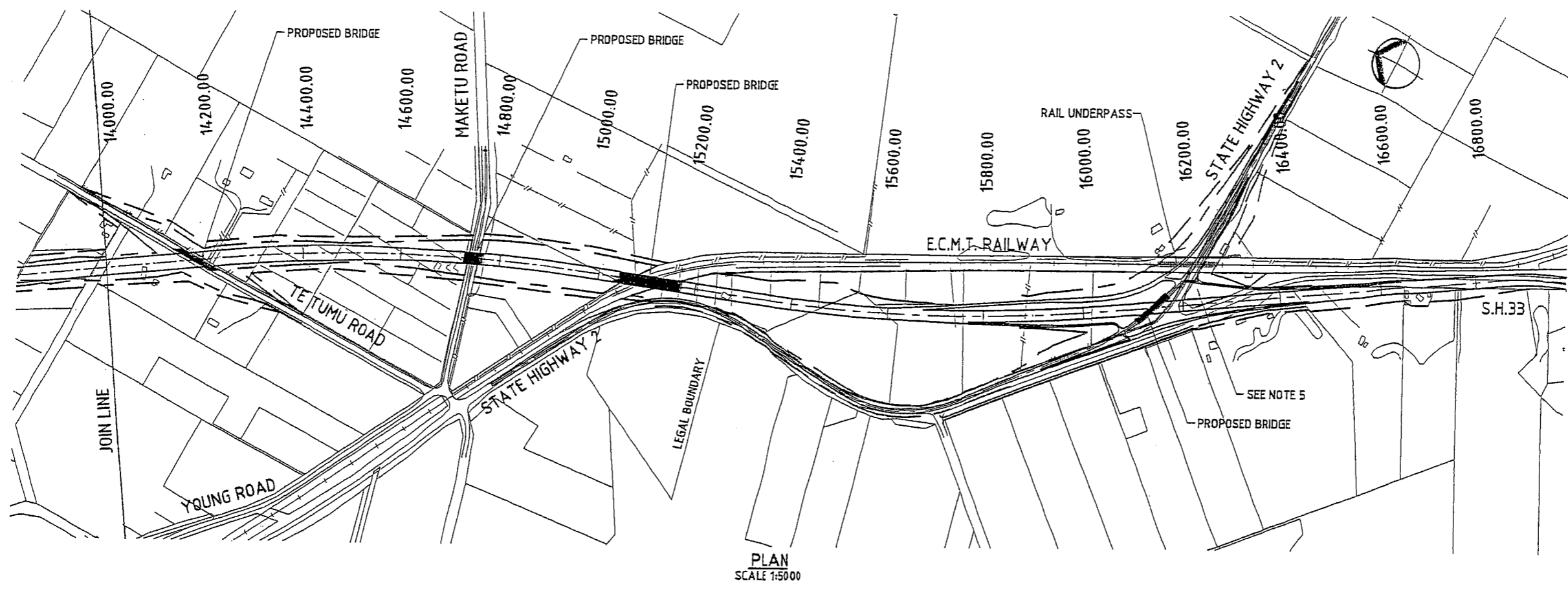
| | | | |
|-----------|-----|---------------------------|-----------------|
| Designed | SJF | Approved for Construction | Scale as shown |
| Drawn | BIL | | 1:5000/1000 |
| Trace | CAD | Sign | Reduced Drawing |
| Day Check | | | 1:10000/2000 |
| Dra Check | SJF | Date | |



TAURANGA EASTERN ARTERIAL
CIVIL

DESIGNATION REQUIREMENT PLAN
SHEET 5 OF 6

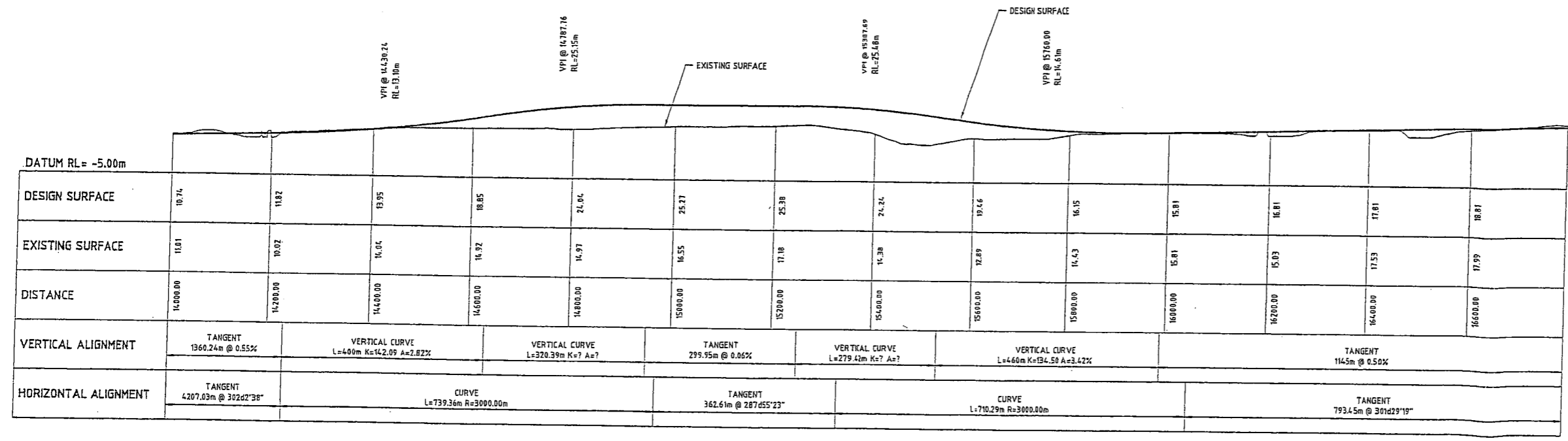
| | |
|---------|---------|
| Job No. | 9301240 |
| Org No. | P011 |
| Rev. | B |



PLAN
SCALE 1:5000

LEGEND

- EDGE OF SEAL
- - - - - EXTENT OF BATTERS
- - - - - DESIGNATION REQUIREMENT
- - - - - CENTRELINE OF ALIGNMENT
- - - - - EXISTING FENCE
- - - - - EXISTING RAILWAY TRACK
- - - - - EXISTING DRAIN
- - - - - EXISTING TRACK



LONG SECTION
HORIZONTAL SCALE 1:5000
VERTICAL SCALE 1:1000

NOTES:-

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3. DTM DATA AND AERIAL PHOTOGRAPHY SUPPLIED BY NEW ZEALAND AERIAL MAPPING LTD.
4. FLOOD LEVEL DATA SUPPLIED BY ENVIRONMENT B.O.P.
5. POSSIBLE INTERIM AT GRADE INTERSECTION TO BE PROVIDED.

| | | | | |
|---|---|---------|-----|----------|
| C | MAKETU & TE TUMU ROAD CROSSINGS AMENDED | 1/12/11 | DRY | 14.00.00 |
| B | SH 2 REALIGNED, RAIL UNDERPASS ADDED | 1/12/11 | JH | 4.5.91 |
| A | FOR DESIGNATION | | | |

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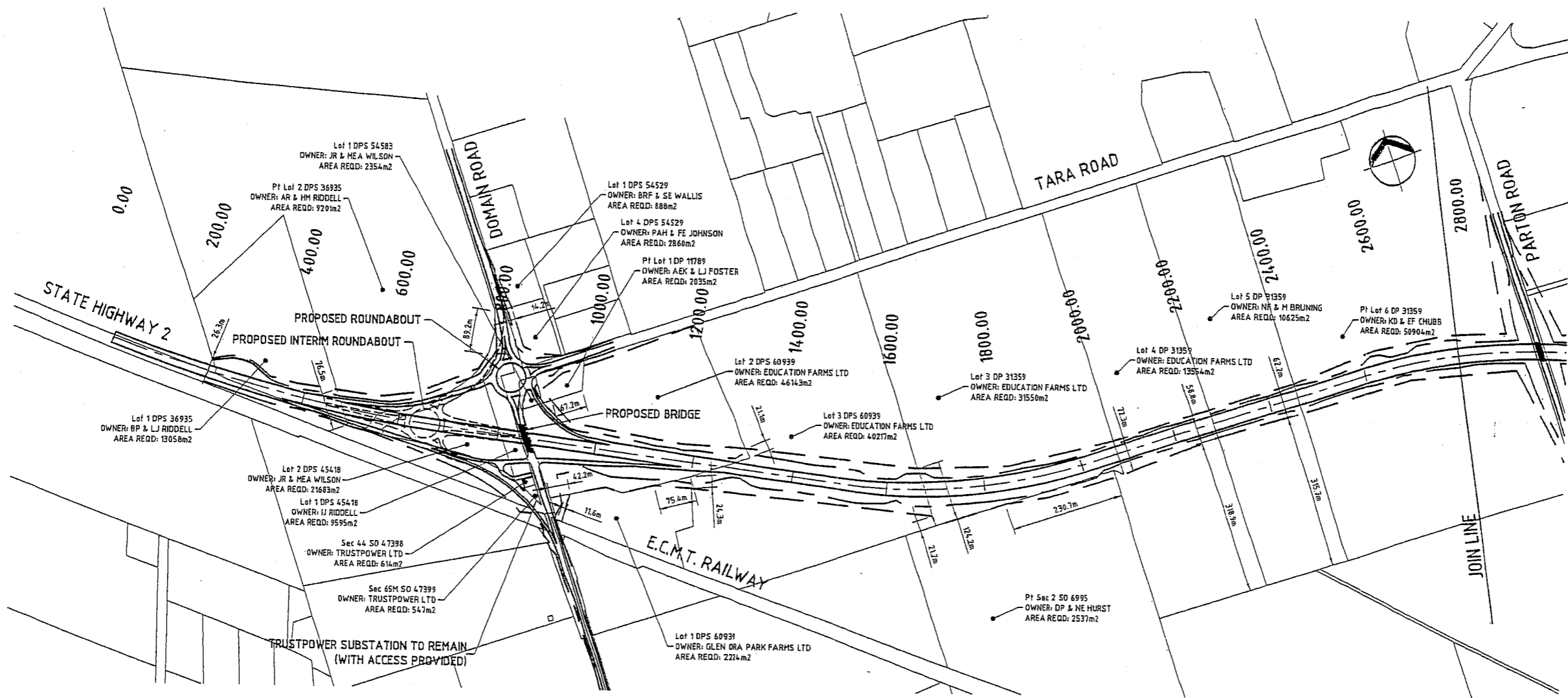
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|-----------|------|--------------|-----|
| Designed | SJF | Approved for | SJF |
| Drawn | Bill | Construction | |
| Traced | CAD | | |
| Doc Check | | | |
| Dre Check | SJF | Date | |



TAURANGA
EASTERN ARTERIAL
CIVIL

DESIGNATION
REQUIREMENT PLAN
SHEET 6 OF 6

| | |
|---------|---------|
| Job No. | 9301240 |
| Rev. | P012 |



PLAN
SCALE 1:5000

LEGEND

- EDGE OF SEAL
- - - - - EXTENT OF BATTERS
- - - - - DESIGNATION REQUIREMENT
- - - - - CENTRELINE OF ALIGNMENT
- LEGAL BOUNDARY

NOTES:-

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3. FLOOD LEVEL DATA SUPPLIED BY ENVIRONMENT B.D.P.

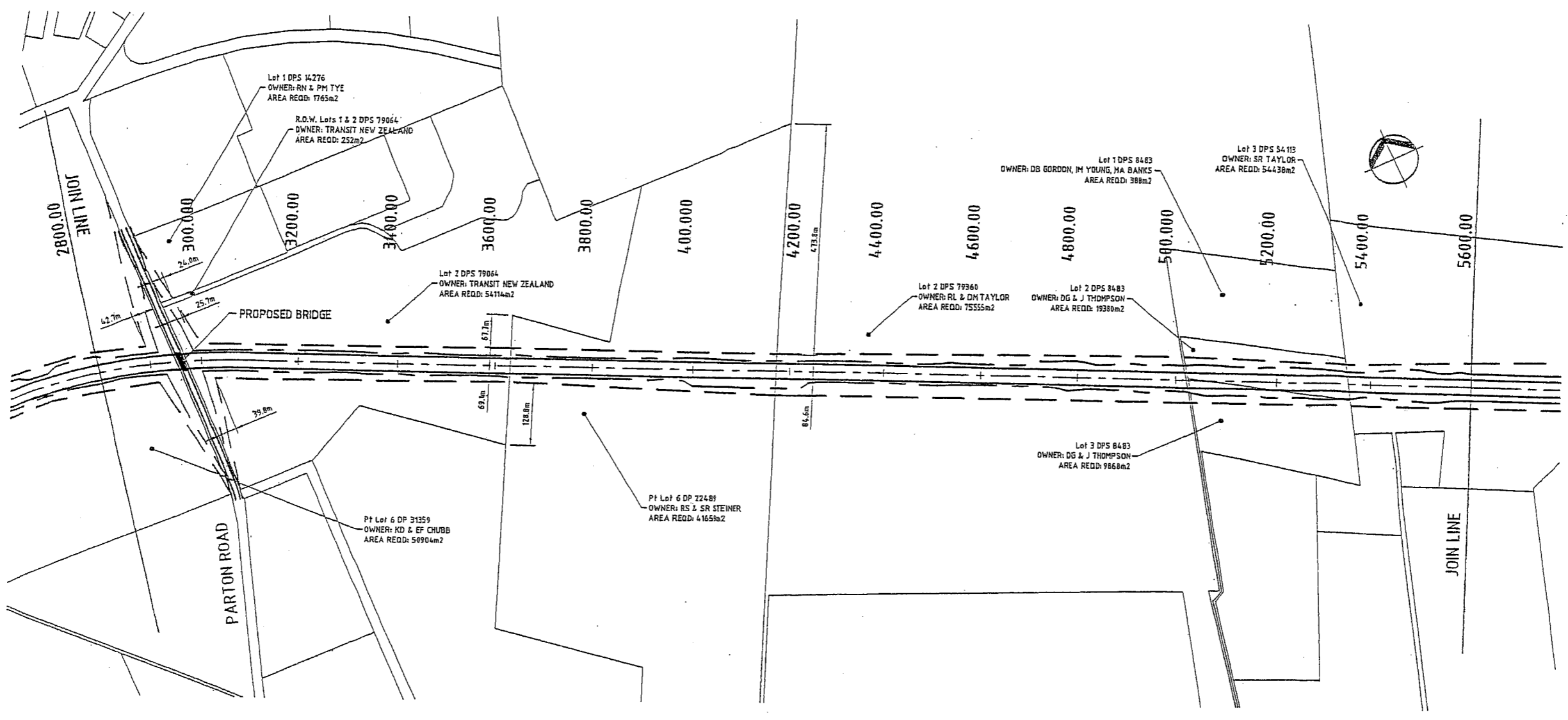
| | | | |
|-----|--|------|---------|
| B | MINOR ADJUSTMENTS TO EXTENT OF BATTERS | DRY | 23/6/11 |
| A | FOR DESIGNATION | JJH | 4.5.99 |
| No. | Revision | Appd | Date |

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| | | | |
|------------|-----|---------------------------|-----------------|
| Designed | SJF | Approved for Construction | Scale as drawn |
| Drawn | BIL | | 1:5000/1900 |
| Traced | CAD | Sign | Reduced Drawing |
| Idea Check | | | 1:10000/2000 |
| Dra Check | SJF | Date | |



| | | |
|---------------------------|-----------------------|-----------------|
| TAURANGA EASTERN ARTERIAL | LAND REQUIREMENT PLAN | Job No. 9301240 |
| CIVIL | SHEET 1 OF 6 | Dwg No. P013 |



PLAN
SCALE 1:5000

LEGEND

- EDGE OF SEAL
- EXTENT OF BATTERS
- DESIGNATION REQUIREMENT
- CENTRELINE OF ALIGNMENT
- LEGAL BOUNDARY

NOTES:-

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3. FLOOD LEVEL DATA SUPPLIED BY ENVIRONMENT B.O.P.

| | | | |
|-----|---|----|----------|
| 8 | LAND OWNERSHIP UPDATED TO REFLECT TNZ PURCHASES | AD | 14/12/20 |
| A | FOR DESIGNATION | AD | 14/12/20 |
| No. | Revision | AD | Date |

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Melbourne, Sydney, Port Moresby, Jakarta, Singapore, Brunei.

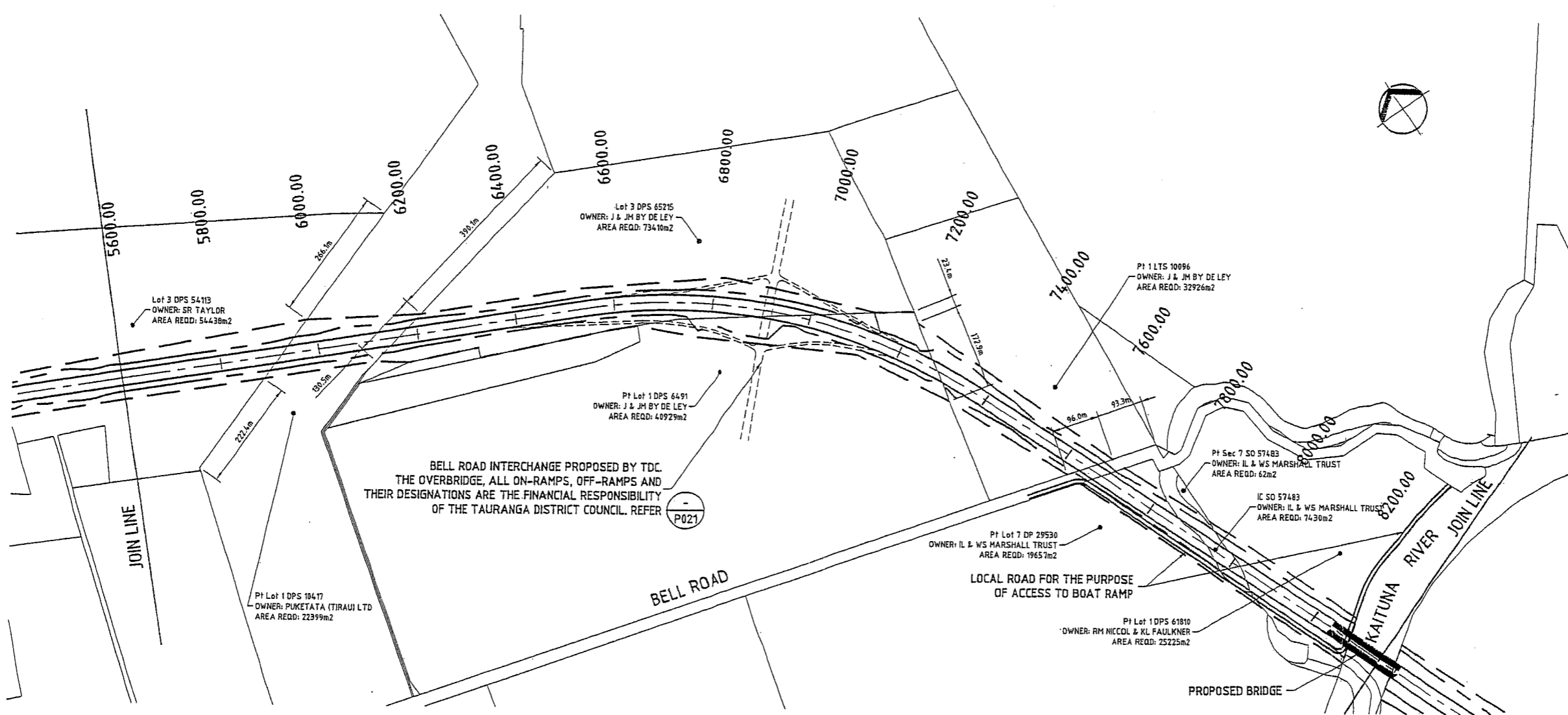
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|-----------|-----|--------------|--------------|
| Designed | SJF | Approved for | Scale as |
| Drawn | BIL | Construction | Drawn |
| Traced | CAD | Sign | 1:5000/1000 |
| Dwg Check | SJF | Date | Reduced |
| Dwg Check | SJF | Date | Drawing |
| | | | 1:10000/2000 |



TAURANGA
EASTERN ARTERIAL
CIVIL

LAND REQUIREMENT
PLAN
SHEET 2 OF 6

| | |
|---------|---------|
| Job No. | 9301240 |
| Dwg No. | P014 |
| Rev. | |



PLAN
SCALE 1:5000

LEGEND

- EDGE OF SEAL
- EXTENT OF BATTERS
- DESIGNATION REQUIREMENT
- CENTRELINE OF ALIGNMENT
- LEGAL BOUNDARY

NOTES:-

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3. FLOOD LEVEL DATA SUPPLIED BY ENVIRONMENT B.O.P.

| No. | Revision | Acad | Date |
|-----|--|------|----------|
| D | MINOR CHANGES TO ACCESS ROAD DESCRIPTION | | 24/12/00 |
| C | ALIGNMENT ALTERED TO AVOID RESERVE | DRY | 15.09 |
| B | LEGAL BOUNDARY AMENDED BELL ROAD | DRY | 23.07 |
| A | FOR DESIGNATION | JJM | 15.09 |

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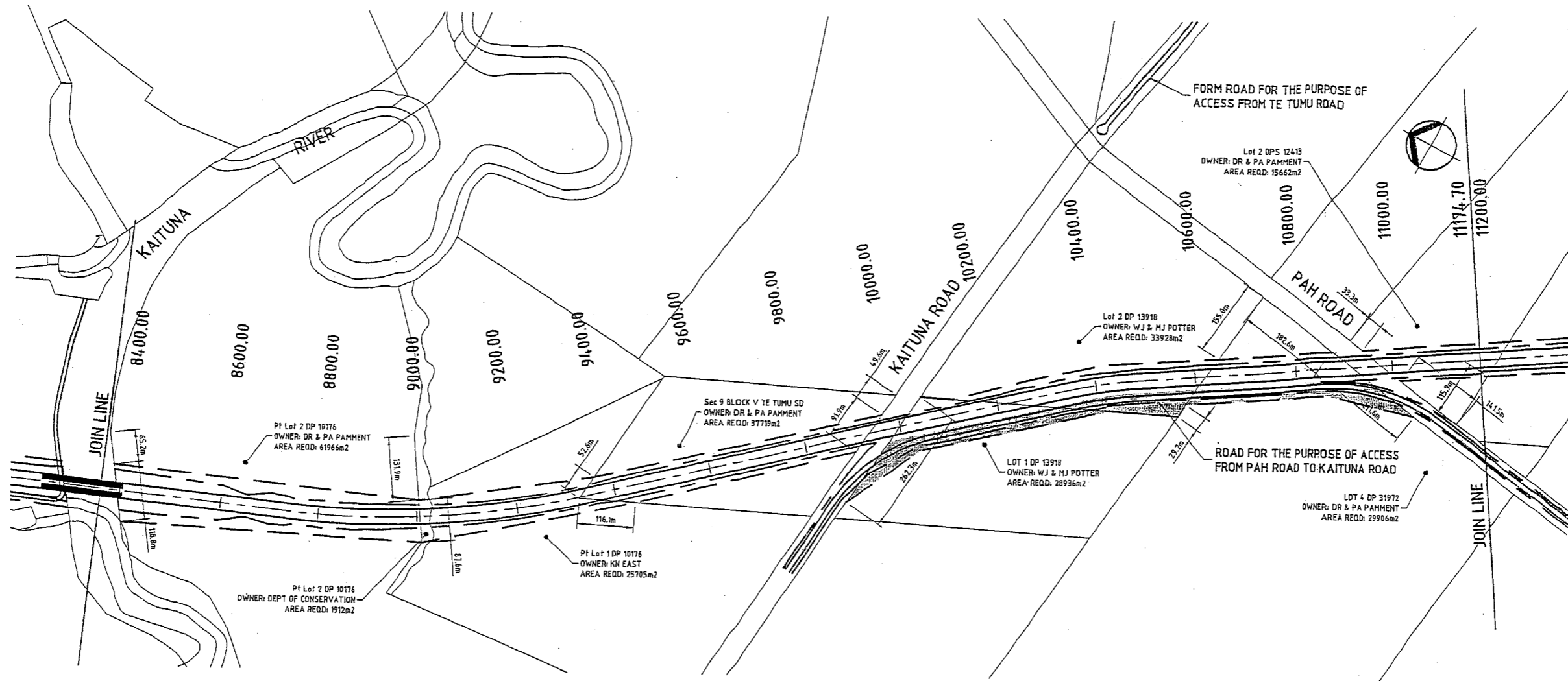
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|-----------|-----|---------------------------|-----------------|
| Designed | SJF | Approved for Construction | Scale as drawn |
| Drawn | BL | | 1:5000 / 10:00 |
| Traced | CAD | Sign | Reduced Drawing |
| Des Check | | Date | 1:10000 / 2000 |
| Dwg Check | SJF | | |



TAURANGA
EASTERN ARTERIAL
CIVIL

LAND REQUIREMENT
PLAN
SHEET 3 OF 6

| | |
|---------|---------|
| Job No. | 9301240 |
| Dwg No. | P015 |



PLAN
SCALE 1:5000

LEGEND

- EDGE OF SEAL
- EXTENT OF BATTERS
- DESIGNATION REQUIREMENT
- CENTRELINE OF ALIGNMENT
- LEGAL BOUNDARY
- AREA OF LOCAL ROAD TO BE DESIGNATED FOR THE PURPOSE OF ACCESS

NOTES:-

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3. FLOOD LEVEL DATA SUPPLIED BY ENVIRONMENT B.O.P.

| | | | |
|-----|---|------|-------|
| D | MINOR CHANGES TO ACCESS ROAD DESCRIPTIONS | JJH | |
| C | LAND OWNERSHIP UPDATED TO REFLECT TNZ PURCHASES | DRY | 29.00 |
| B | ALIGNMENT AMENDED TO AVOID RESERVE. AREAS AMENDED | DRY | 5.00 |
| A | FOR DESIGNATION | JJH | 4.19 |
| No. | Revision | Appd | Date |

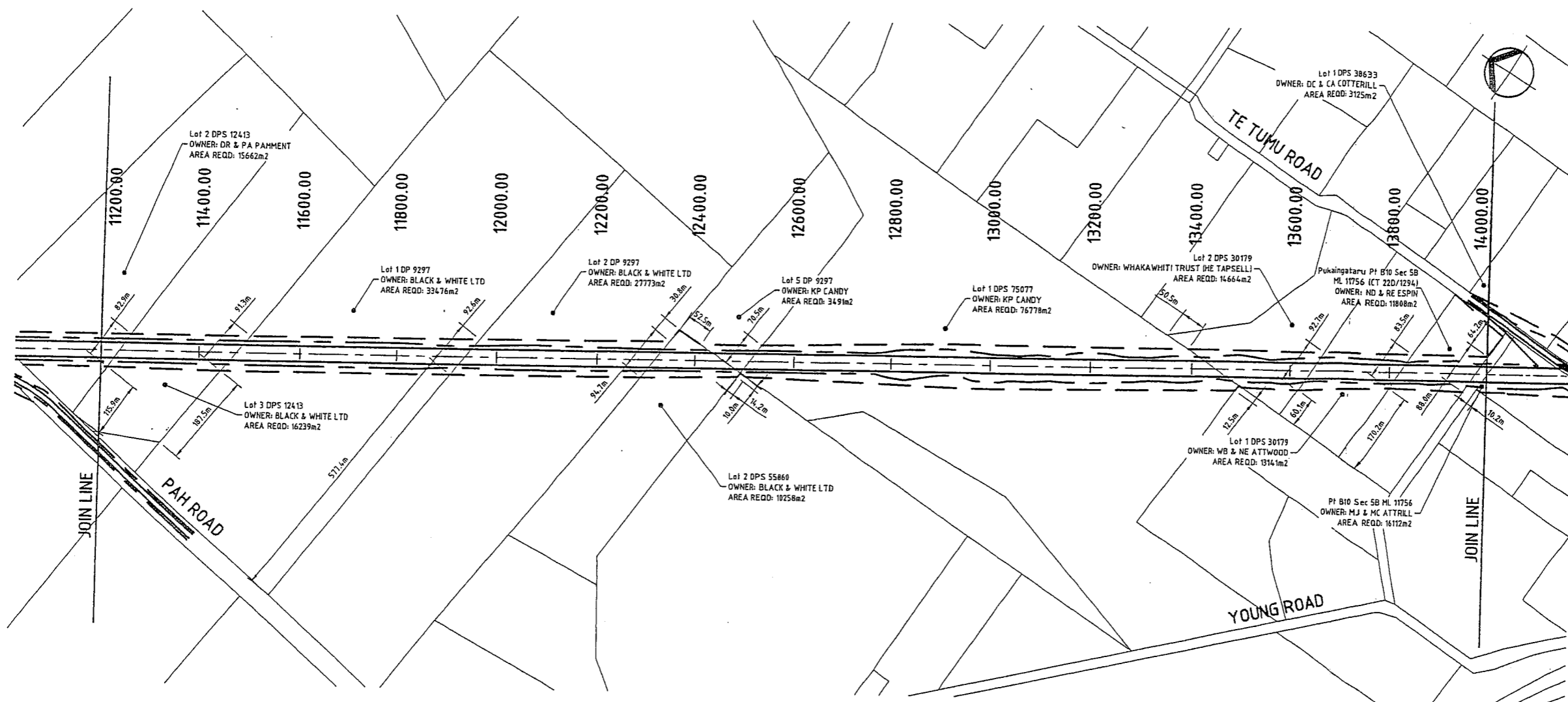
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| | | | |
|-----------|-----|---------------------------|----------------|
| Designed | SJF | Approved for Construction | Scale as Drawn |
| Drawn | BIL | | 1:5000/1000 |
| Traced | CAD | Sign | Reduced |
| Dsg Check | | | 1:10000/2000 |
| Drg Check | SJF | Date | |



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|---------------------------|-----------------------|-----------------|
| TAURANGA EASTERN ARTERIAL | LAND REQUIREMENT PLAN | Job No. 9301240 |
| CIVIL | SHEET 4 OF 6 | Rev. P016 |

Beca Carter Hollings & Ferner Ltd. CAD FILE No. P:\P\9301240\CAD\160916



PLAN
SCALE 1:5000

LEGEND

- EDGE OF SEAL
- - - EXTENT OF BATTERS
- - - DESIGNATION REQUIREMENT
- - - CENTRELINE OF ALIGNMENT
- LEGAL BOUNDARY

NOTES:-

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3. FLOOD LEVEL DATA SUPPLIED BY ENVIRONMENT B.O.P.

| No. | Revision | Appd | Date |
|-----|---|------|----------|
| E | ESPIN PROPERTY DESCRIPTION AMENDED | VJ | 04/11/20 |
| D | TE TUMU ROAD CROSSING & DESIGNATION AREAS AMENDED | DRY | 24/11/20 |
| C | LAND OWNERSHIP UPDATED TO REFLECT TNZ PURCHASES | DRY | 28/9/20 |
| B | MINOR AMENDMENTS TO DESIGNATION BOUNDARY | DRY | 23/6/19 |
| A | FOR DESIGNATION | JJH | 4/5/19 |

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 Melbourne, Sydney, Port Moresby, Jakarta, Singapore, Brunei

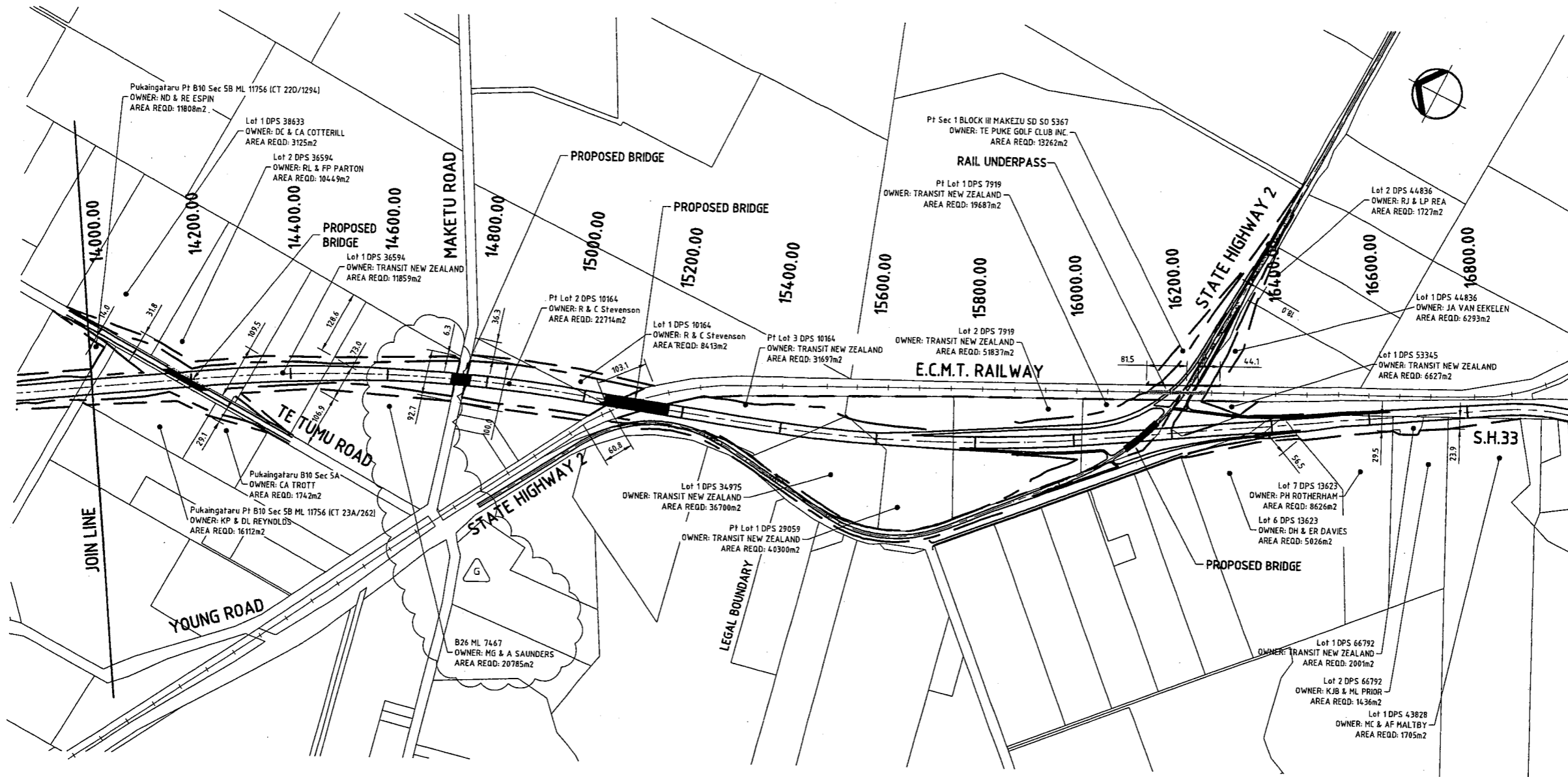
| | | | |
|-----------|-----|---------------------------|-----------------|
| Designed | SJF | Approved for Construction | Scale as Drawn |
| Drawn | BL | | 1:5000/10000 |
| Traced | CAD | Sign | Reduced Drawing |
| Dwg Check | | Date | 1:10000/2000 |
| Org Check | SJF | | |



TAURANGA
EASTERN ARTERIAL
CIVIL

LAND REQUIREMENT
PLAN
SHEET 5 OF 6

Job No. 9301240
Dwg No. P017
Rev.



PLAN
SCALE 1:5000

SUPERSEDED

LEGEND

- EDGE OF SEAL
- - - EXTENT OF BATTERS
- - - DESIGNATION REQUIREMENT
- - - CENTRELINE OF ALIGNMENT
- - - EXISTING RAILWAY TRACK

NOTES:-

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| No. | Revision | Description | Appd | Date |
|-----|----------|---|------|----------|
| G | | PROVISION OF ACCESS TO SAUNDERS PROPERTY FROM MAKETU ROAD | | |
| F | | ESPIN & REYNOLDS PROPERTY DESCRIPTIONS AMENDED | DRY | 4.12.00 |
| E | | MAKETU & TE TUMU ROAD CROSSINGS & DESIGNATION AREAS AMENDED | DRY | 24.11.00 |
| D | | LAND OWNERSHIP UPDATED TO REFLECT TNZ PURCHASES | DRY | 28.9.00 |
| C | | SH 2 REALIGNED, RAIL UNDERPASS ADDED | DRY | 16.08.00 |
| B | | OWNERSHIP DETAILS CORRECTED, LOT 1 DPS 66792 | DRY | 23.6.99 |
| A | | FOR DESIGNATION | JJH | 4.5.99 |

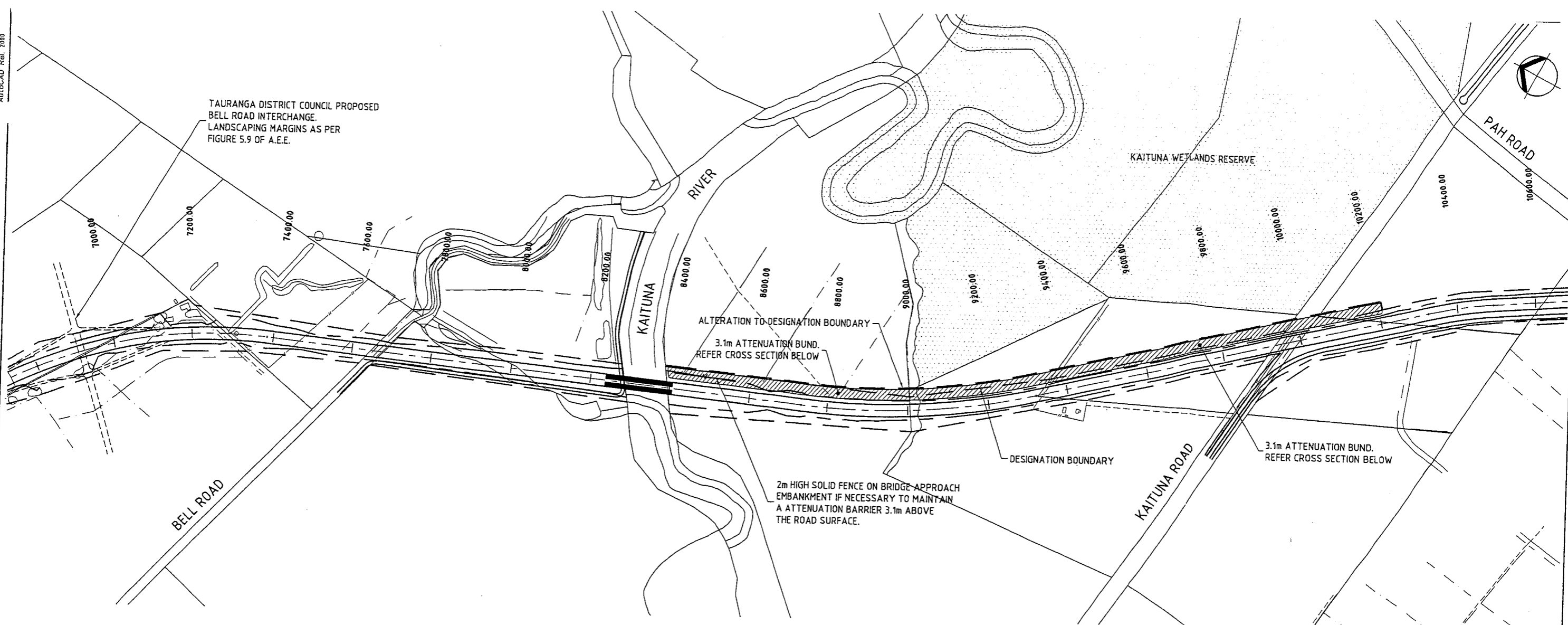
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| | | | |
|-----------|-----|---------------------------|-----------------|
| Designed | SJF | Approved for Construction | Scale as drawn |
| Drawn | BIL | | 1:5000/1000 |
| Traced | CAD | | Reduced Drawing |
| Dwg Check | SJF | Date | 1:10000/2000 |



| | | |
|---------------------------|-----------------------|-----------------|
| TAURANGA EASTERN ARTERIAL | LAND REQUIREMENT PLAN | Job No. 9301240 |
| CIVIL | SHEET 6 OF 6 | Rev. P018 |

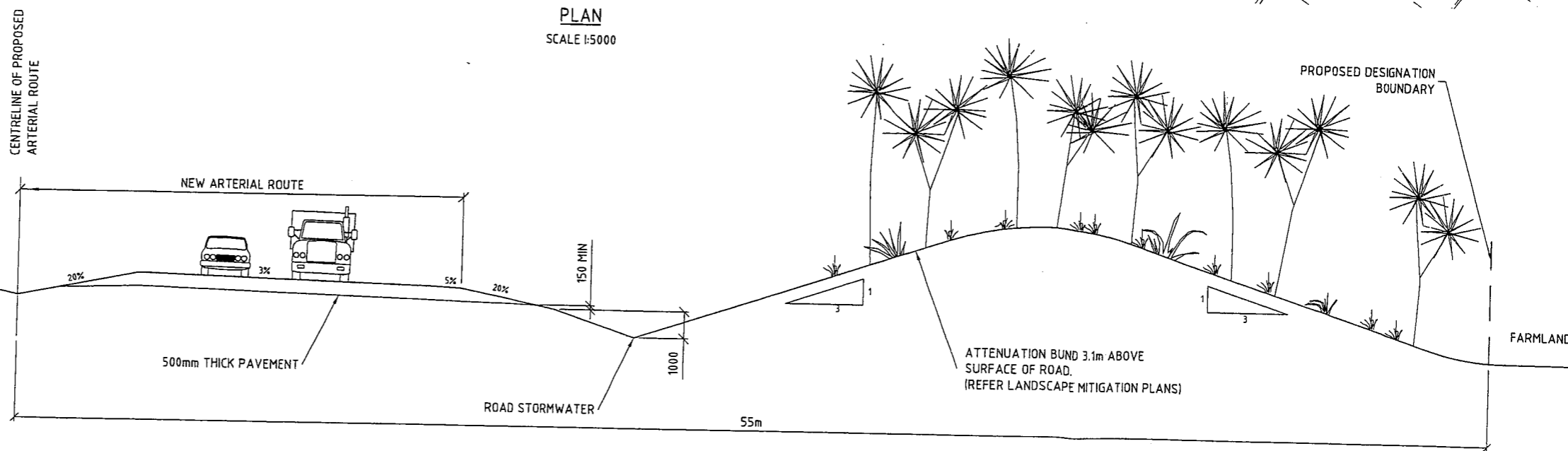
TAURANGA DISTRICT COUNCIL PROPOSED BELL ROAD INTERCHANGE. LANDSCAPING MARGINS AS PER FIGURE 5.9 OF A.E.E.



PLAN
SCALE 1:5000

LEGEND

- EDGE OF SEAL
- - - EXTENT OF BATTERS
- - - DESIGNATION BOUNDARY
- - - ALTERATION TO DESIGNATION BOUNDARY
- - - CENTRELINE OF ALIGNMENT
- - - EXISTING FENCE
- - - EXISTING RAILWAY TRACK
- - - EXISTING DRAIN
- - - EXISTING TRACK
- - - LEGAL BOUDBARY



TYPICAL CROSS SECTION OF 3.1m HIGH ATTENUATION BUND

SCALE 1:100

NOTES:-

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Original size A1
Originating Office: TAURANGA

| | | | | | |
|-----|-----------------|--------|-----|------|----------|
| B | TITLE CHANGE | B. v.B | | | |
| A | FOR DESIGNATION | BIL | DRY | DRY | 18.10.01 |
| No. | Revision | By | Chk | Appd | Date |

Drawing Originator:
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| | | |
|---------------------|------------|----------------------------|
| Original Scale (A1) | Design | Approved For Construction* |
| 1:100/5000 | Drawn: BIL | 11.5.00 |
| Reduced Scale (A3) | Dwg Check* | |
| 1:200/10000 | Dwg Check* | |
| | Date | |

* Refer to Revision 1 for Original Signatures



Client: TAURANGA EASTERN ARTERIAL

| | |
|--|-------------------|
| Title: ATTENUATION BARRIER KAITUNA RESERVE | Discipline: CIVIL |
| Drawing No. 9301240/P043 | Rev. B |

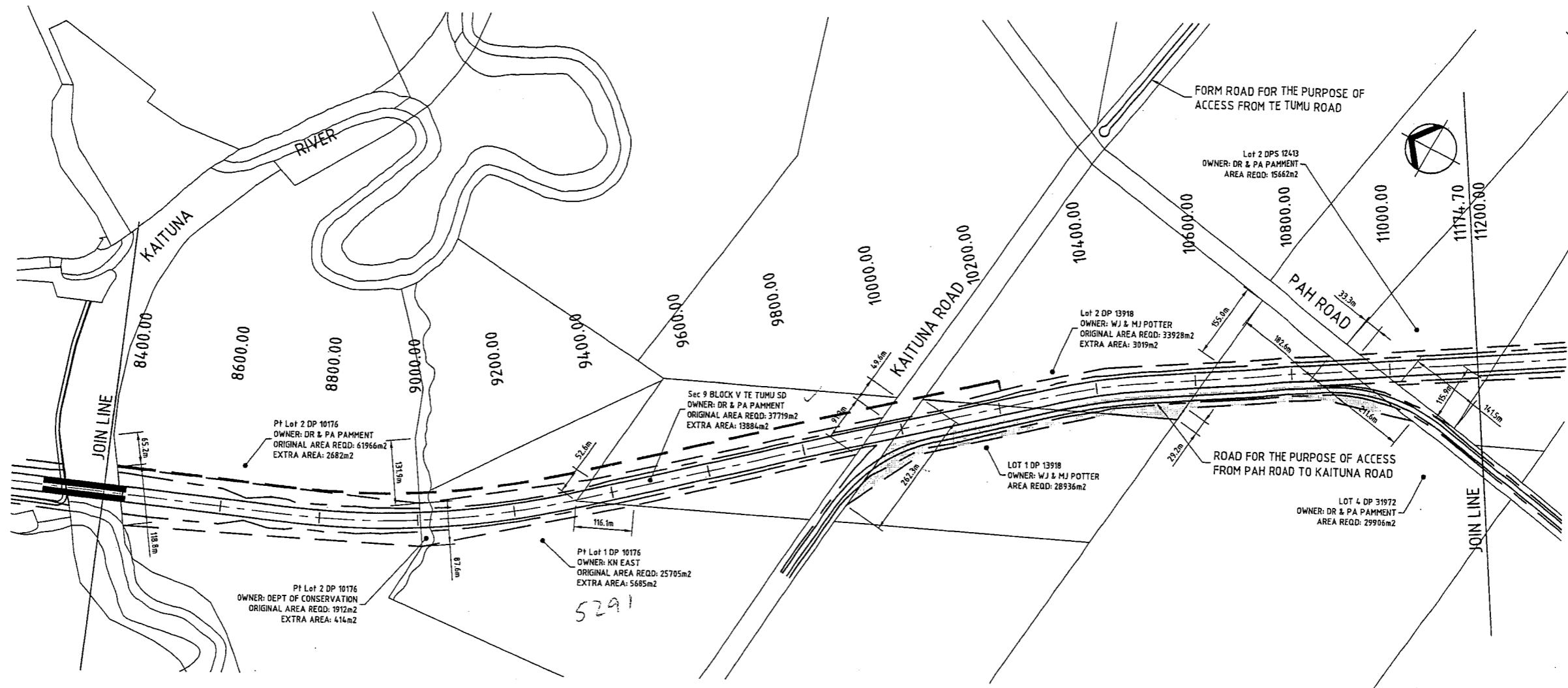
DO NOT SCALE

IF IN DOUBT ASK

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Document No. P:\9301240\CAD\A1\043.P043



LEGEND

- EDGE OF SEAL
- - - EXTENT OF BATTERS
- - - DESIGNATION REQUIREMENT
- - - ALTERATION TO DESIGNATION REQUIREMENT
- - - CENTRELINE OF ALIGNMENT
- - - LEGAL BOUNDARY
- ▨ AREA OF LOCAL ROAD TO BE DESIGNATED FOR THE PURPOSE OF ACCESS

NOTES:-

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3. FLOOD LEVEL DATA SUPPLIED BY ENVIRONMENT B.O.P.

Original size A1

Originating Office: TAURANGA

| No. | Revision | By | Chk | Appd | Date |
|-----|-----------------|--------|-----|------|----------|
| B | TITLE CHANGE | B. v.B | | | 19.10.01 |
| A | FOR INFORMATION | BIL | | | 19.10.01 |

Drawing Originator:
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 Auckland, Wellington, Christchurch, Hamilton, New Plymouth, Tauranga, Melbourne, Sydney, Singapore, Port Moresby, Jakarta, Kuala Lumpur.

| | | | | |
|---------------------|------------|-------|----------|---------------------------|
| Original Scale (A1) | Design | Drawn | 19.10.01 | Approved For Construction |
| 1:5000 | BIL | BIL | | |
| Reduced Scale (A3) | Dwg Check* | | | Date |
| 1:10000 | | | | |

* Refer to Revision 1 for Original Signatures

Client:

 Project: **TAURANGA EASTERN ARTERIAL**

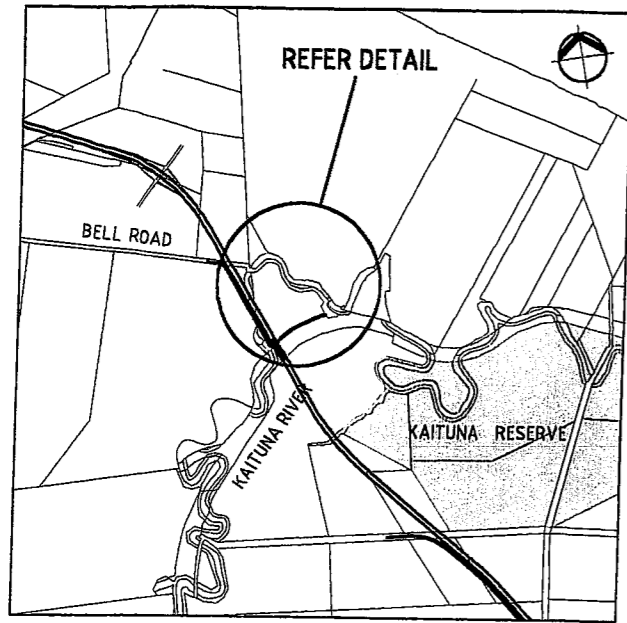
Title:
 LAND REQUIREMENT FOR 3.1m ATTENUATION BARRIER

| | |
|-------------|--------------|
| Discipline | CIVIL |
| Drawing No. | 9301240/P044 |
| Rev. | B |

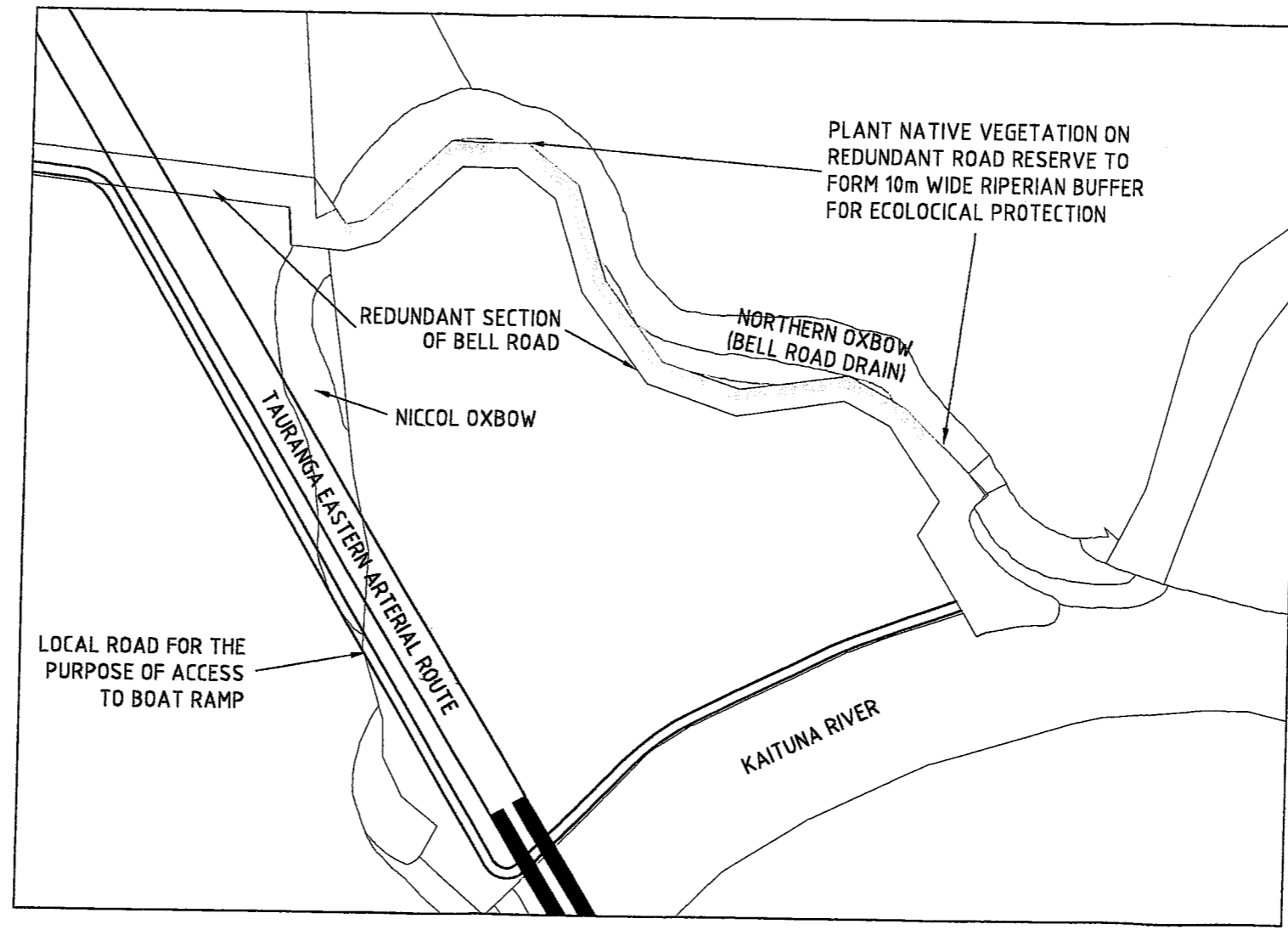
DO NOT SCALE

IF IN DOUBT ASK

AutoCAD Rel. 2000



LOCALITY PLAN
SCALE 1:25000



SITE DETAIL
SCALE 1:2500

Original size A1

Originating Office: TAURANGA

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| No. | Revision | By | Chk | App'd | Date |
|-----|-----------------|----|-----|-------|------|
| A | FOR INFORMATION | | | | |

Drawing Originator:
Beca Carter Hollings & Ferner Ltd
 Consulting Engineers
 Auckland, Wellington, Christchurch, Hamilton, New Plymouth, Tauranga,
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| | | | | |
|--------------------------------|------------|------------|---------|----------------------------|
| Original Scale (A1) 1:25000 | Design | Drawn | Checked | Approved For Construction* |
| Reduced Scale (A3) 1:50000 | Dwg Check* | Dwg Check* | Date | |

* Refer to Revision 1 for Original Signatures

Client: **TRANSIT NEW ZEALAND**

Project: **TAURANGA EASTERN ARTERIAL**

| | | |
|---|---------------|--------------------------|
| Title: BELL ROAD DRAIN RIPERIAN BUFFER | | Discipline: CIVIL |
| Drawing No. 930124-0/P048 | Rev. A | |

DO NOT SCALE

IF IN DOUBT ASK.

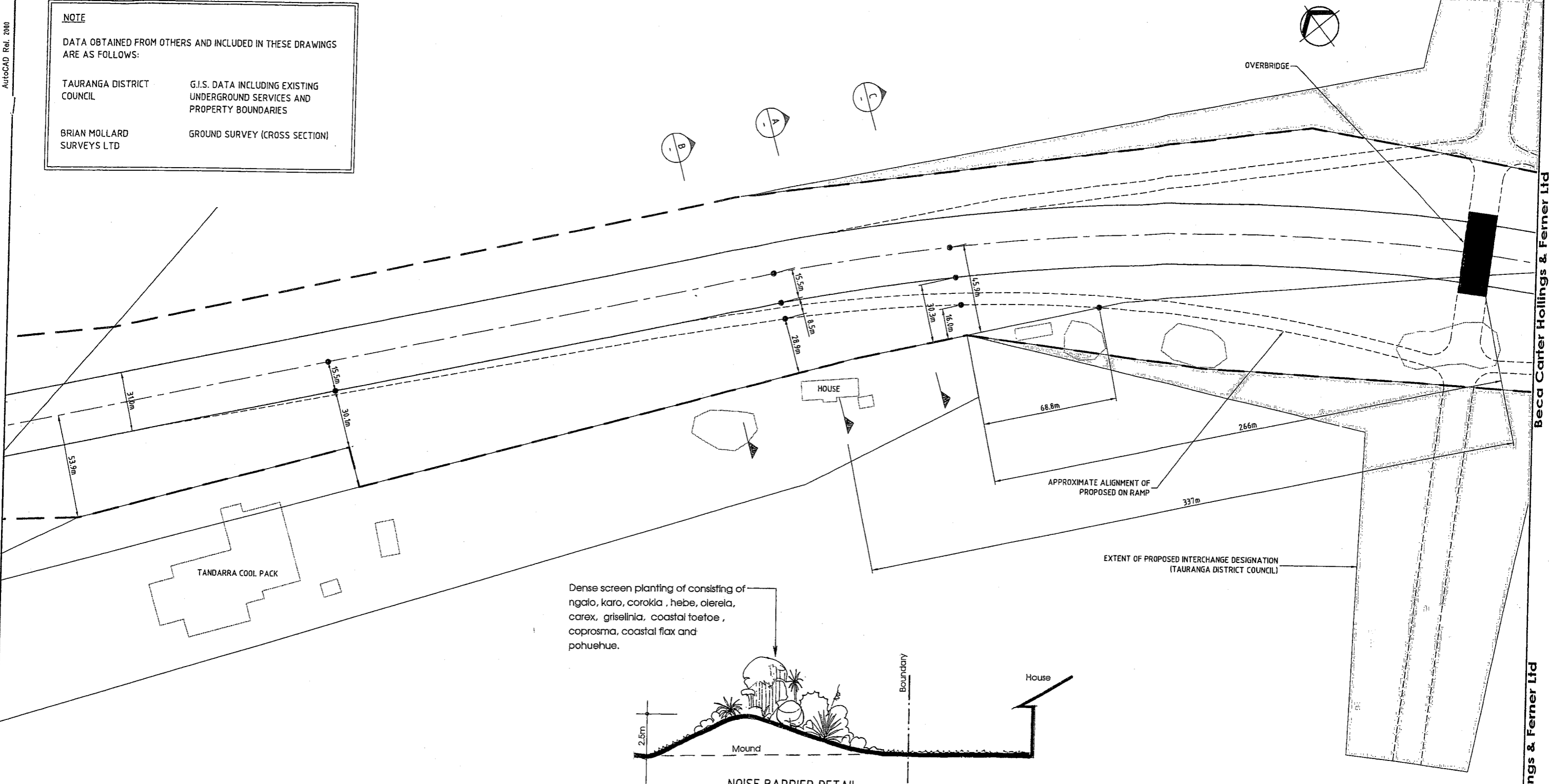
Beca Carter Hollings & Ferner Ltd

Beca Carter Hollings & Ferner Ltd

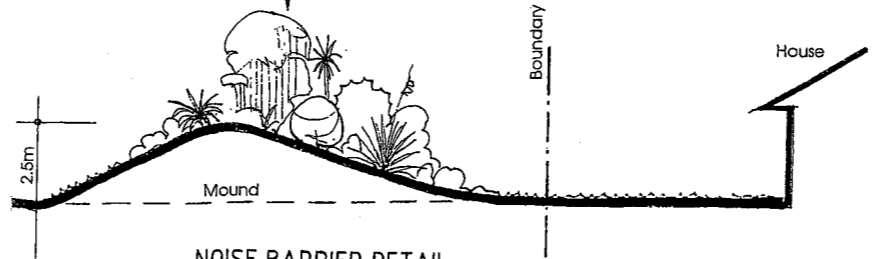
Document No. PAV930124\CAD\124P048

NOTE
 DATA OBTAINED FROM OTHERS AND INCLUDED IN THESE DRAWINGS ARE AS FOLLOWS:

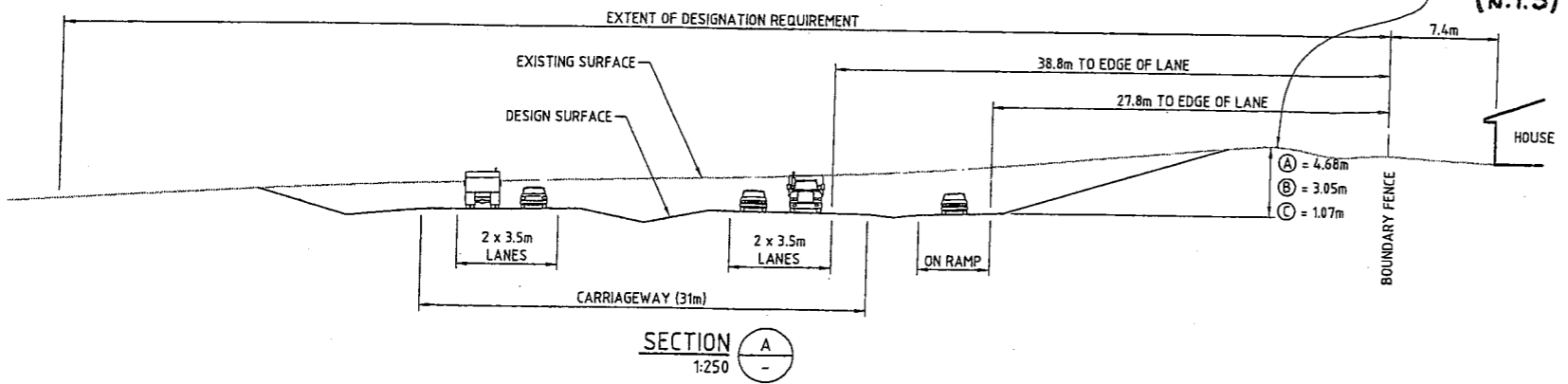
| | |
|---------------------------|---|
| TAURANGA DISTRICT COUNCIL | G.I.S. DATA INCLUDING EXISTING UNDERGROUND SERVICES AND PROPERTY BOUNDARIES |
| BRIAN MOLLARD SURVEYS LTD | GROUND SURVEY (CROSS SECTION) |



Dense screen planting of consisting of ngaio, karo, corokia, hebe, alerela, carex, griselinia, coastal toetoe, coprosma, coastal flax and pohuehue.



NOISE BARRIER DETAIL (N.T.S)



SECTION A
1:250

LEGEND

- EDGE OF SEAL
- TNZ DESIGNATION REQUIREMENT
- - - CENTRELINE OF T.E.A. ALIGNMENT
- - - POSSIBLE TDC OFF-RAMPS
- PEGS POSITIONED BY BCHF (APPROX)
- TDC DESIGNATION AREA

Original size A1
 Originating Office: TAURANGA

Beca Carter Hollings & Ferner Ltd

| | | | | | | | | |
|---|--|--|--|------------------------------------|---|---|---|--|
| Drawing Originator: Beca Carter Hollings & Ferner Ltd Consulting Engineers Auckland, Wellington, Christchurch, Hamilton, New Plymouth, Tauranga, Melbourne, Sydney, Singapore, Port Moresby, Jakarta, Kuala Lumpur. | | Original Scale (A1) 1:1000/250 Reduced Scale (A3) 1:2000/500 * Refer to Revision 1 for Original Signatures | Design Drawn: BIL Date: 29.8.01 Dwg Check* Date | Approved For Construction* Date | Client: TRANSIT ARASIA ROAD, Tauranga | Project: TAURANGA EASTERN ARTERIAL | Title: NOISE & LANDSCAPING MITIGATION CRESSY PROPERTY, BELL RD | Discipline: CIVIL Drawing No. 9301240/P049 Rev. A |
|---|--|--|--|------------------------------------|---|---|---|--|



Lot 1 DPS 36594
OWNER: TRANSIT NEW ZEALAND
TOTAL AREA REQD: 11859m2

RESIDUAL AREA: 21297m2

RESIDUAL AREA: 14335m2

B26 ML 7467
OWNER: MG & A SAUNDERS
AREA REQD: 20822m2

RESIDUAL AREA: 6948m2

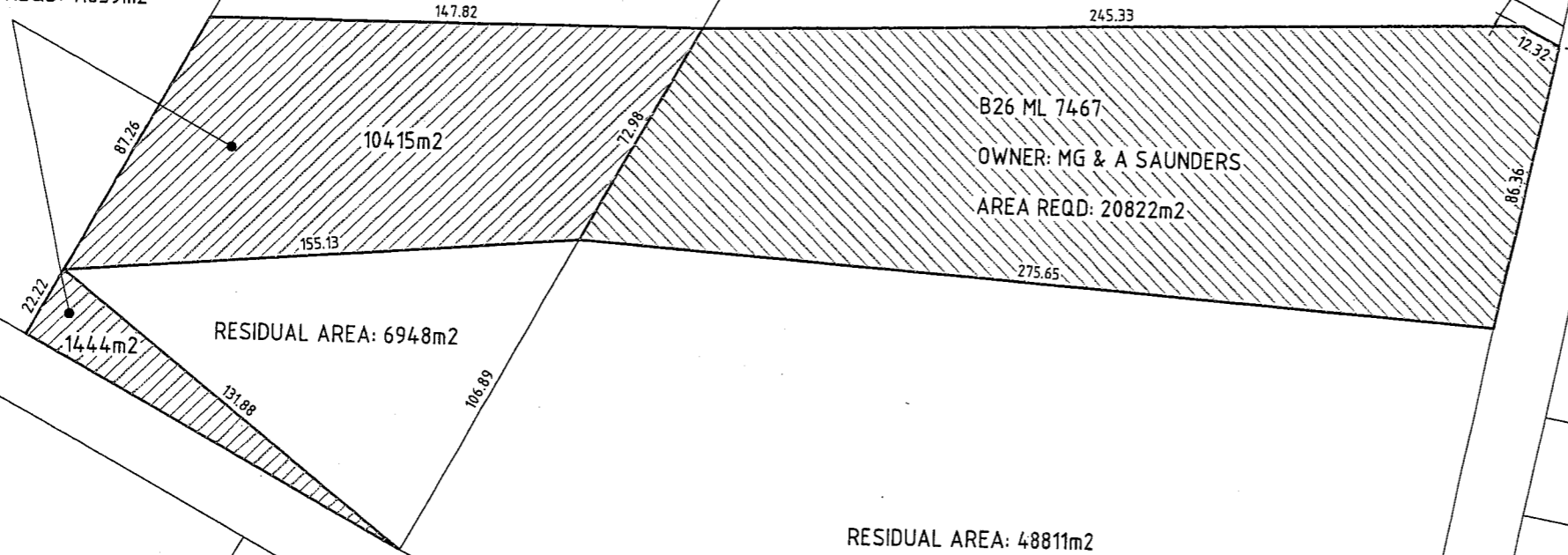
RESIDUAL AREA: 48811m2

TE TUMU ROAD

MAKETU ROAD

E.C.M.T. RAILWAY

STATE HIGHWAY 2



Original size A1

Originating Office: TAURANGA

NOTE:
1. ALL AREAS AND MEASUREMENTS SUBJECT TO SURVEY.

| | | | | |
|-----|---|-----|-----|---------|
| C | PROVISION OF ACCESS TO SAUNDERS PROPERTY FROM MAKETU RD | BIL | DRY | 31.7.01 |
| B | OWNERSHIP OF Lot 1 DPS 36594 UPDATED | BIL | DRY | 3.11.00 |
| A | FOR INFORMATION | BIL | DRY | 3.11.00 |
| No. | Revision | By | Chk | Appd |

Drawing Originator:
Beca Carter Hollings & Ferner Ltd
 Consulting Engineers
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| | | | | |
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| Original Scale (A1) | Design | BIL | 3.11.00 | Approved For Construction* |
| 1:1000 | Drawn | BIL | 3.11.00 | |
| Reduced Scale (A3) | Dwg Check* | | | |
| 1:2000 | Dwg Check* | | | |

* Refer to Revision 1 for Original Signatures

Client: **TRANSIT NEW ZEALAND**
 A R A R A U A O T E A M O R U

Project: TAURANGA EASTERN ARTERIAL

| | |
|---|-------------------|
| Title: LAND REQUIREMENT SAUNDERS AND TNZ (EX SPRATT) PROPERTIES | Discipline: CIVIL |
| Drawing No. 9301240/SK10 | Rev. C |

DO NOT SCALE

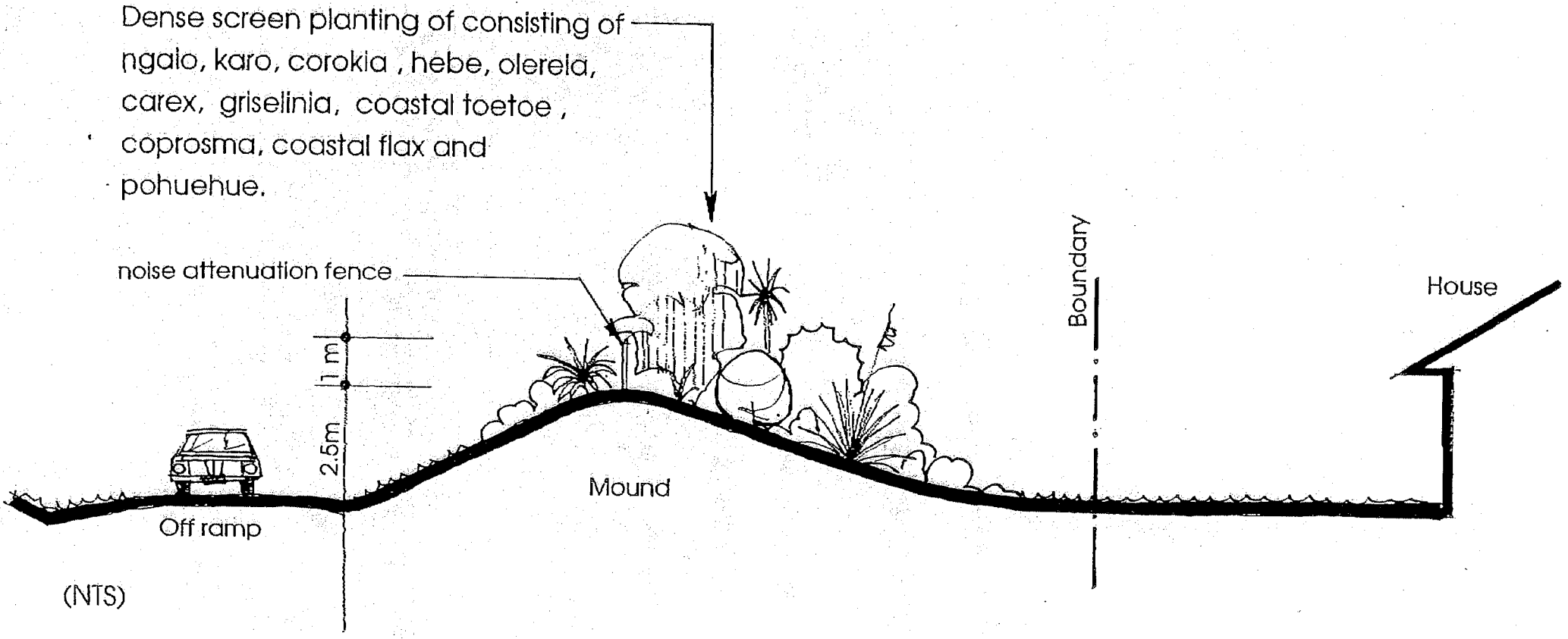
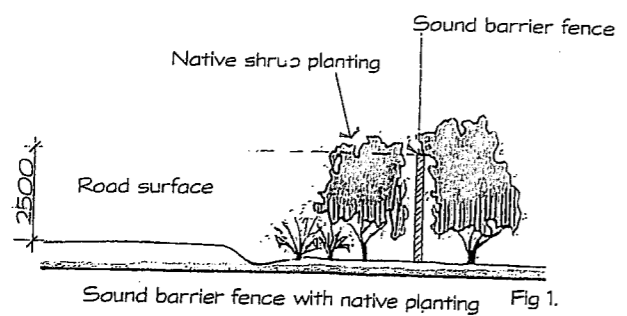
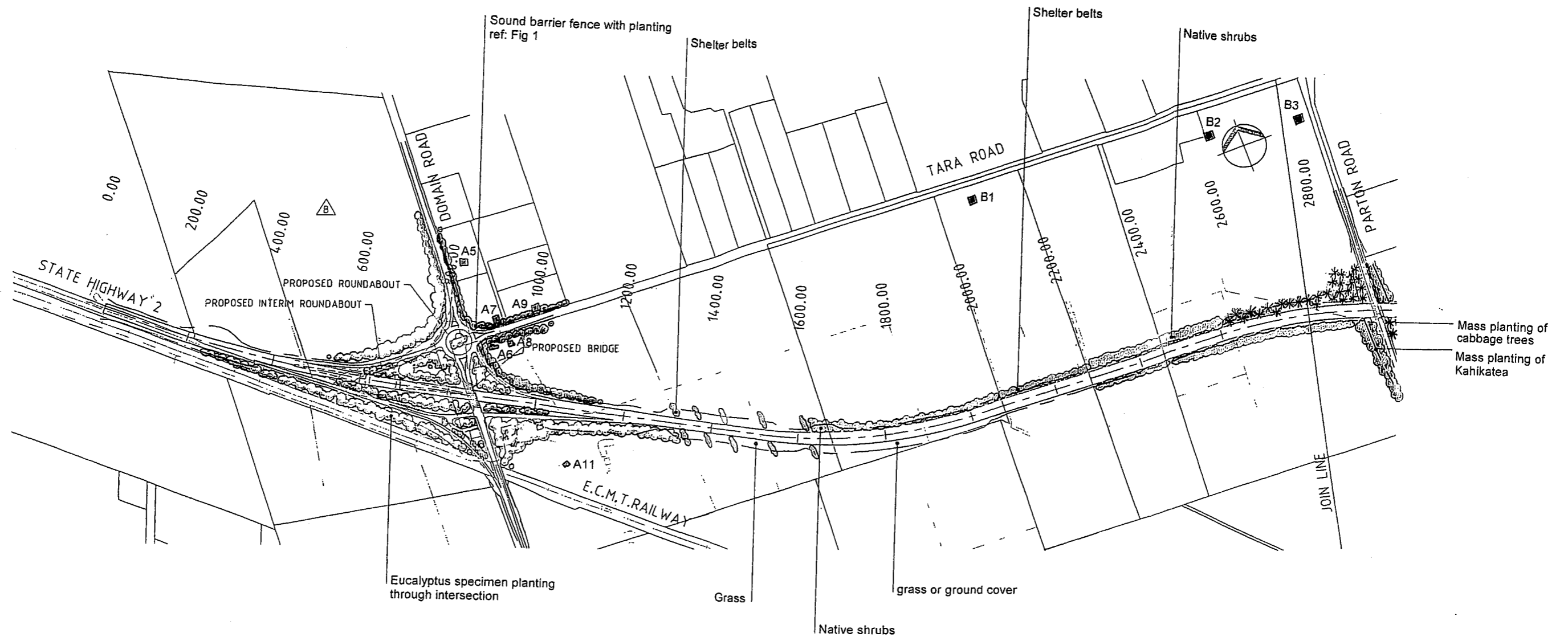












FIGURE A. LANDSCAPE MITIGATION
 Stella Cressey - 339 Bell Road



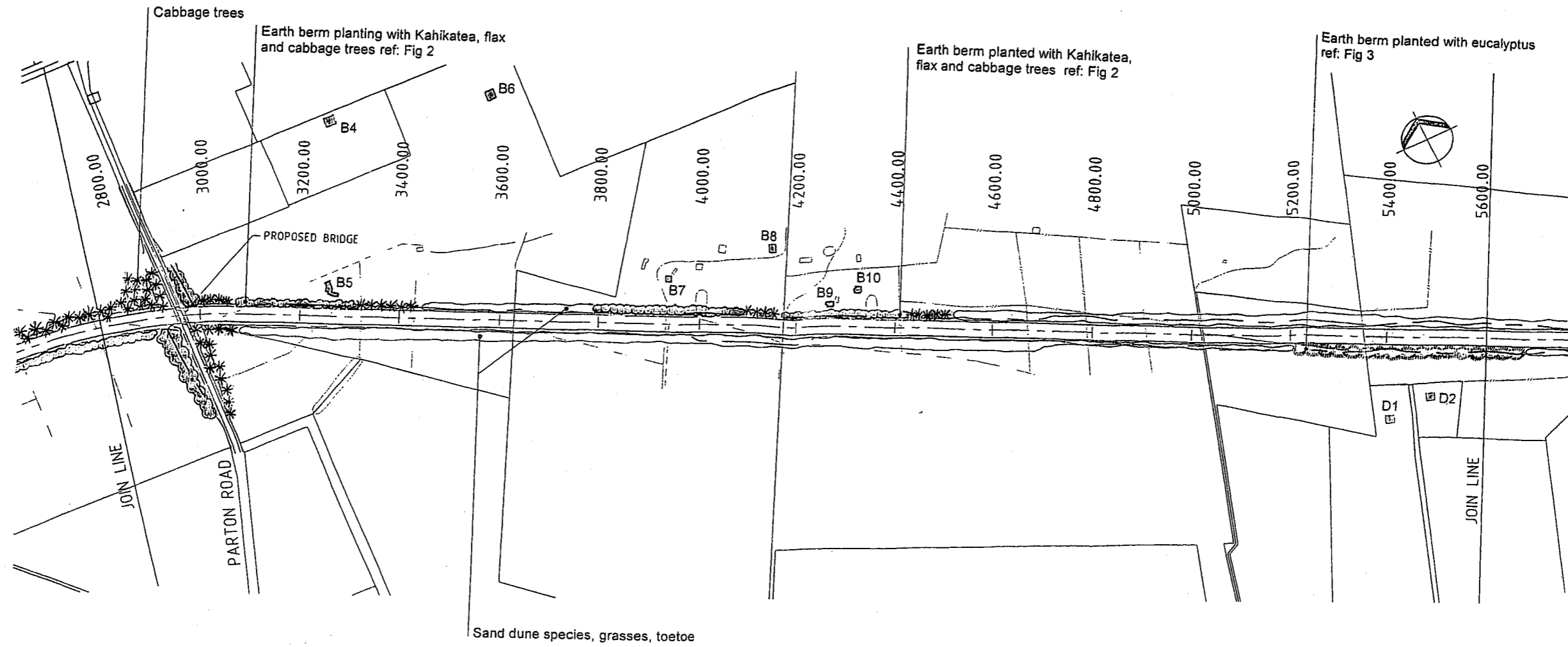
-  Large feature trees - Eucalyptus sp.
-  Proposed shelter belts
-  Native shrubs
-  Grass or ground cover
-  Mass planting of cabbage trees
-  Mass planting of kahikatea
-  Sand dune species, Carex, foxtail, Ice plant
-  Existing shelter belts
-  Welland planting
-  Houses

TAURANGA EASTERN ARTERIAL

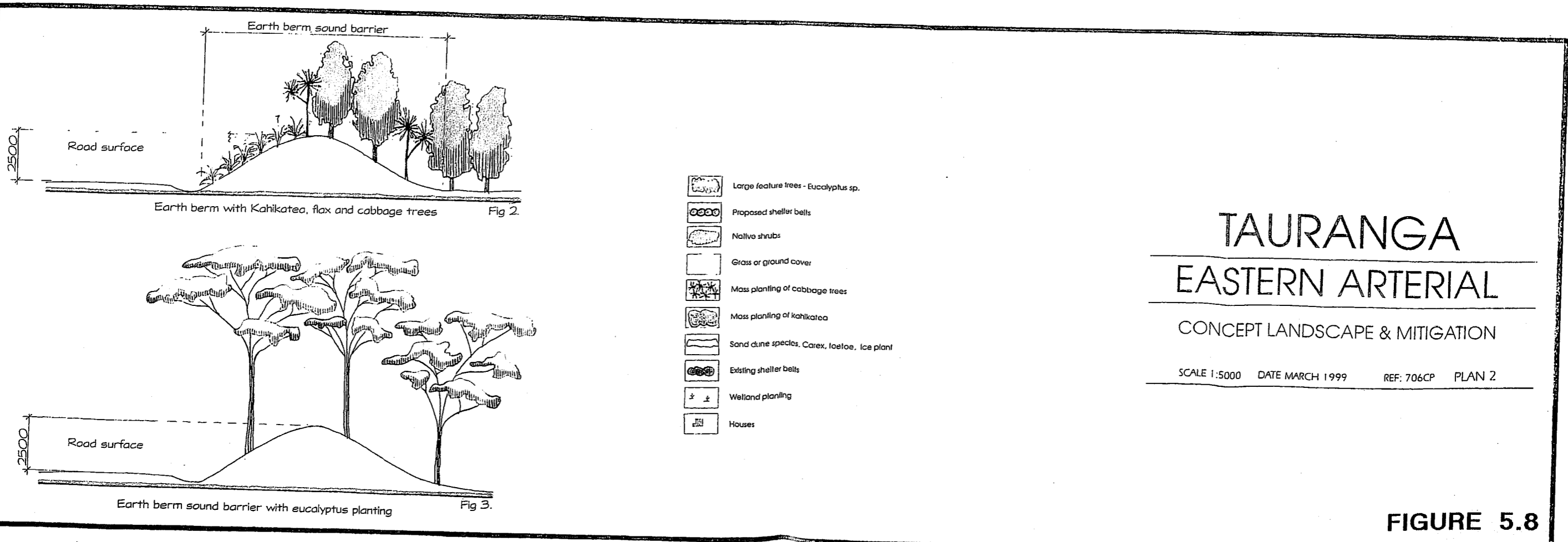
CONCEPT LANDSCAPE & MITIGATION

SCALE 1:5000 DATE MARCH 1999 REF: 706CP PLAN 1

FIGURE 5.7



Sand dune species, grasses, toetoe



TAURANGA EASTERN ARTERIAL

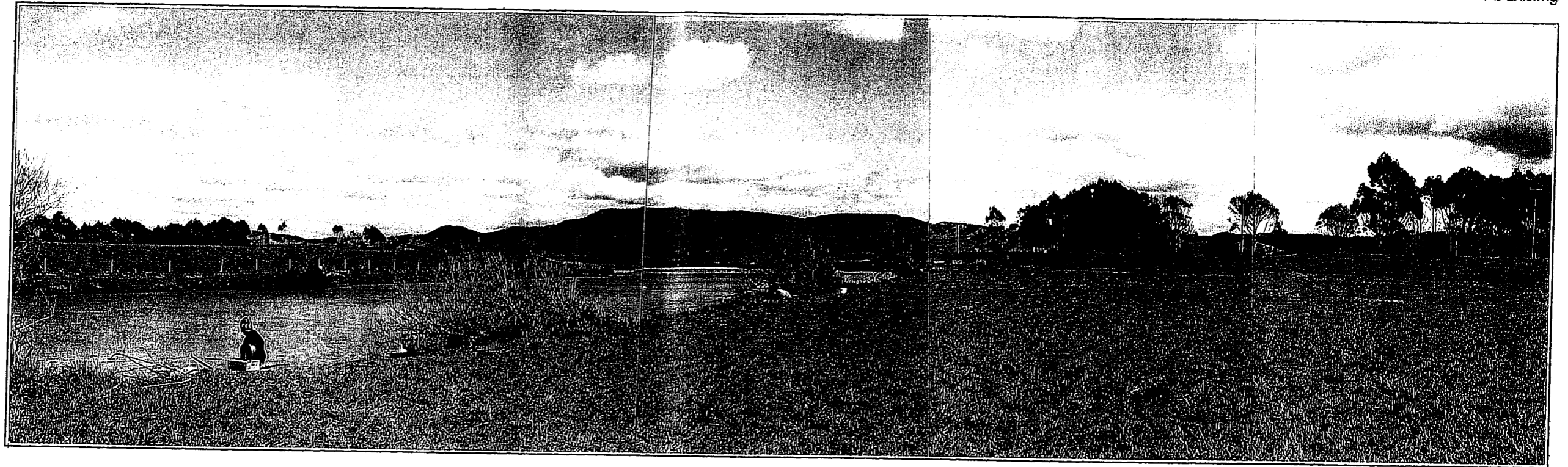
CONCEPT LANDSCAPE & MITIGATION

SCALE 1:5000 DATE MARCH 1999 REF: 706CP PLAN 2

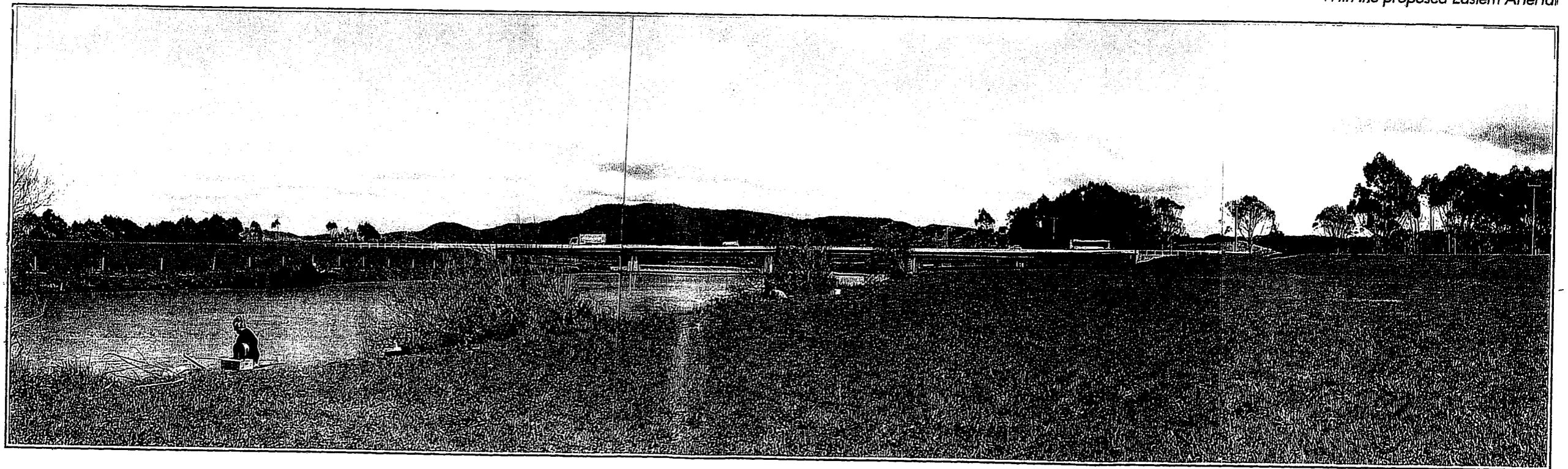
FIGURE 5.8

APPENDIX C

As Existing



With the proposed Eastern Arterial



Viewpoint 3
Boat ramp on Kaituna River looking west

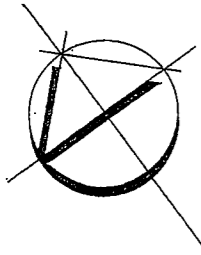


Fig 1. Earth berm with Kahikatea, flax and cabbage trees

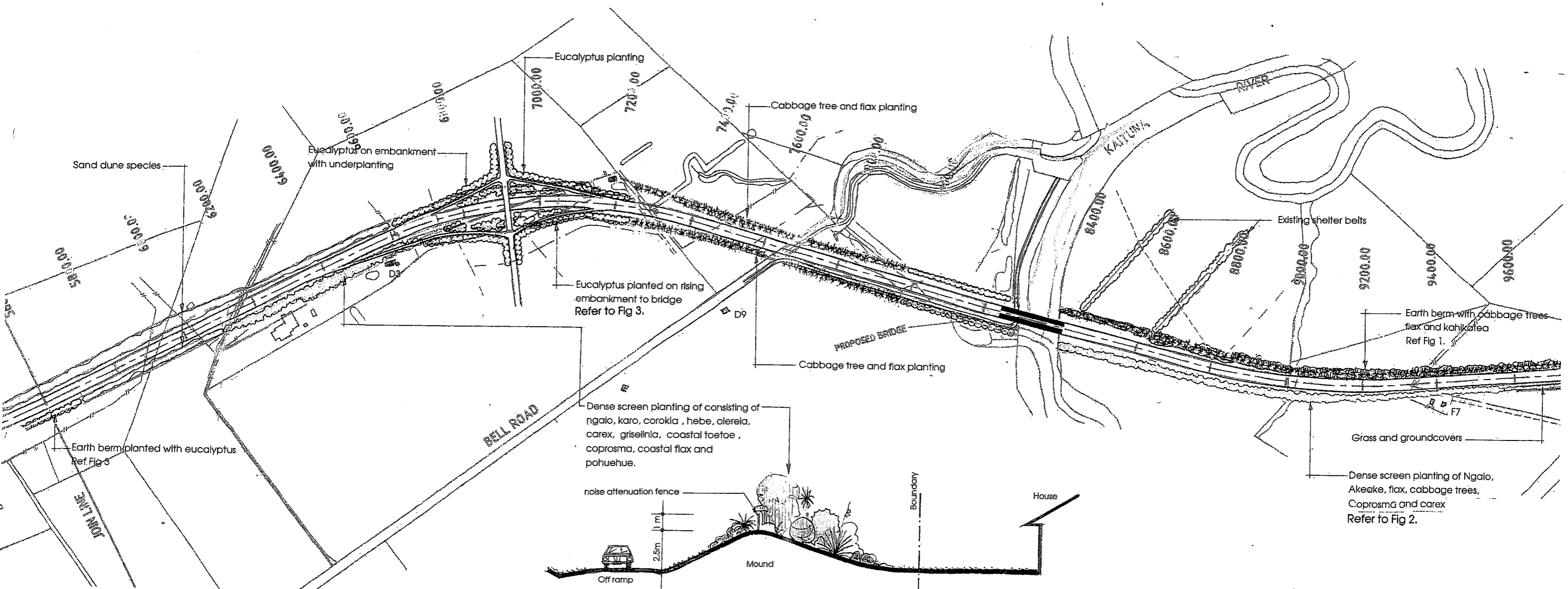
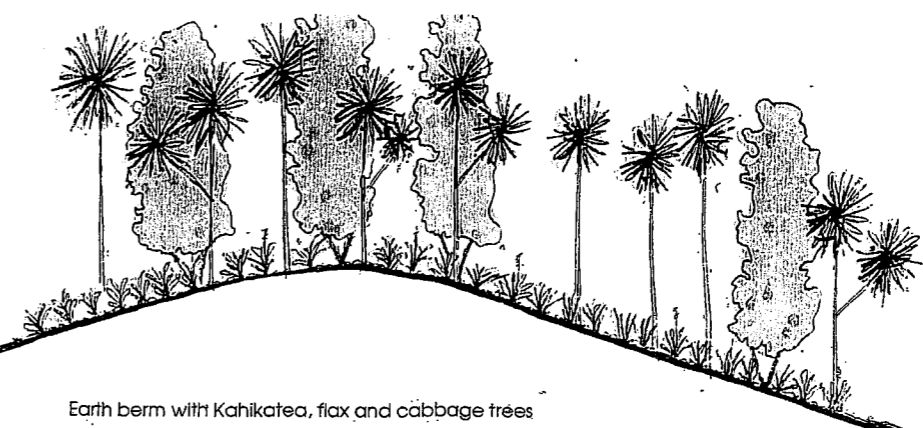


Fig 2. (NTS)

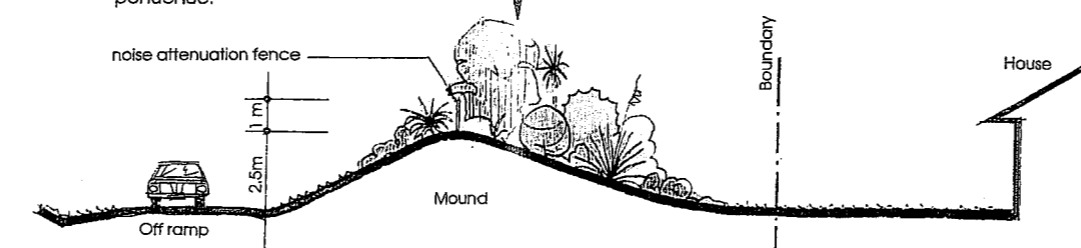


FIGURE 5.9

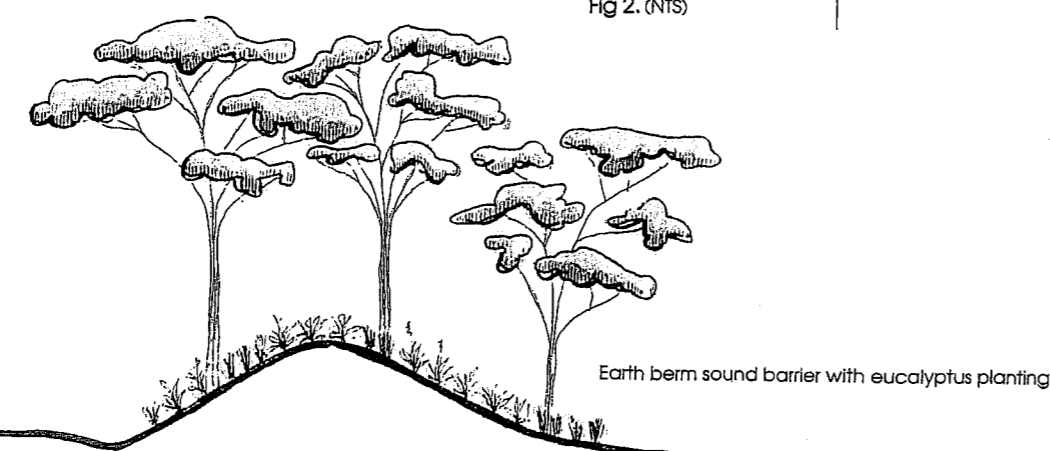


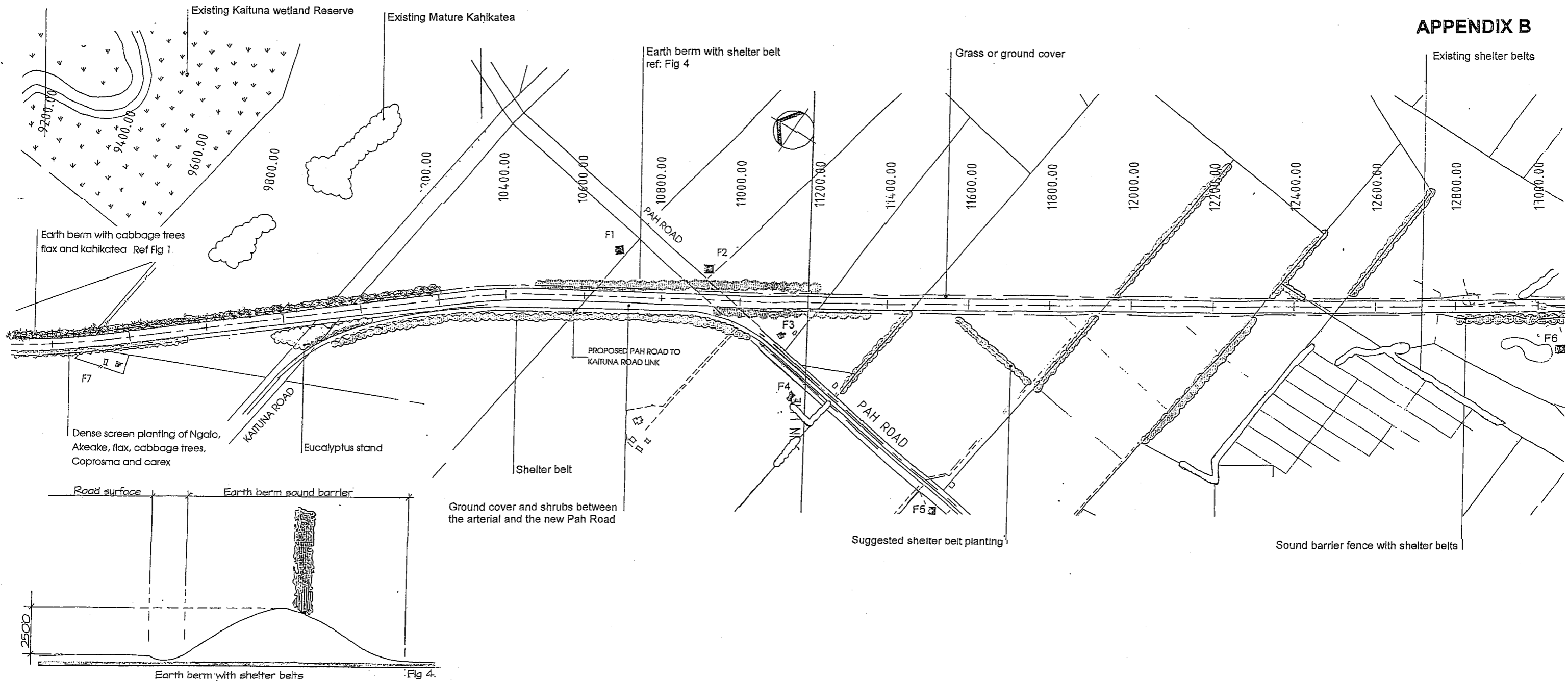
Fig 3.

| | |
|--|---|
| | Cabbage tree, flax and kahikatea planting |
| | Sand dune species |
| | Eucalyptus planting |
| | Houses |
| | Cabbage tree and flax planting |
| | Existing shelterbelts |
| | Screen planting |
| | Grass and groundcovers |

**TAURANGA
EASTERN ARTERIAL**

CONCEPT AND LANDSCAPE MITIGATION

AMENDED
SCALE 1:5000 DATE OCTOBER 2001 REF: 706CP PLAN 3



| | |
|--|---|
| | Large feature trees - Eucalyptus sp. |
| | Proposed shelter belts |
| | Native shrubs |
| | Grass or ground cover |
| | Mass planting of cabbage trees |
| | Mass planting of kahikatea |
| | Sand dune species, Carex, tostoe, Ice plant |
| | Existing shelter belts |
| | Wetland planting |
| | Houses |
| | Screen planting (Ref Fig 2, Plan 3) |

TAURANGA

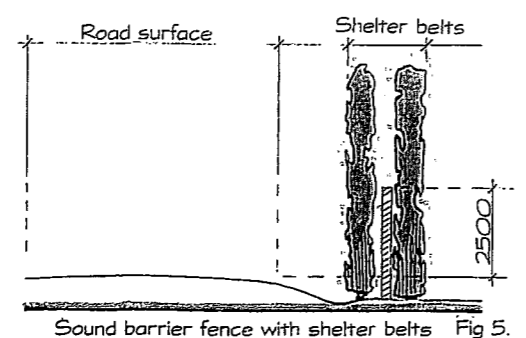
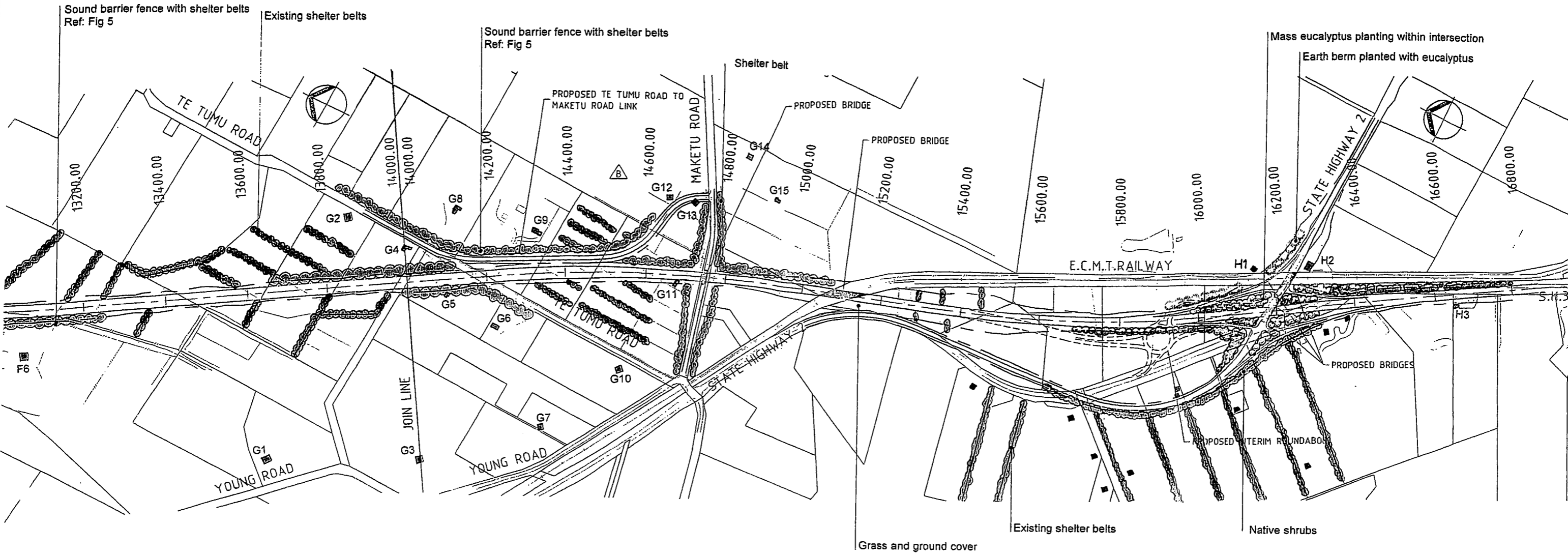
EASTERN ARTERIAL











CONCEPT LANDSCAPE & MITIGATION

AMENDED

SCALE 1:5000 DATE OCTOBER 2001 REF: 706CP PLAN 4

FIGURE 5.10



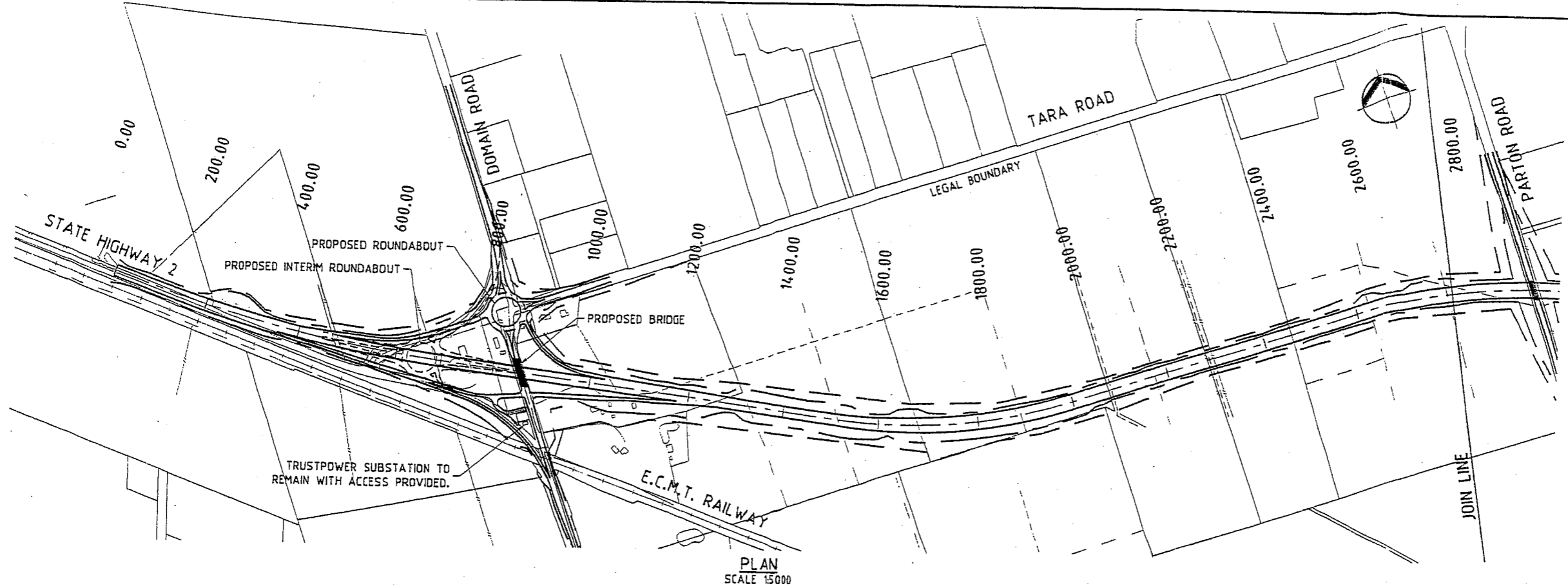
-  Large feature trees - Eucalyptus sp.
-  Proposed shelter belts
-  Native shrubs
-  Grass or ground cover
-  Mass planting of cabbage trees
-  Mass planting of kahikatea
-  Sand dune species, Carex, toetoe, ice plant
-  Existing shelter belts
-  Wetland planting
-  Houses

TAURANGA EASTERN ARTERIAL

CONCEPT LANDSCAPE & MITIGATION

SCALE 1:5000 DATE MARCH 1999 REF: 706CP PLAN 5

FIGURE 5.11

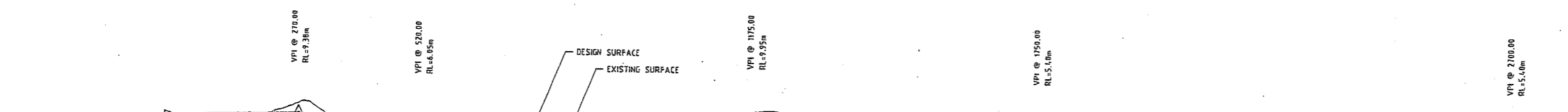


TRUSTPOWER SUBSTATION TO REMAIN WITH ACCESS PROVIDED.

PLAN SCALE 1:5000

LEGEND

- EDGE OF SEAL
- EXTENT OF BATTERS
- DESIGNATION REQUIREMENT
- CENTRELINE OF ALIGNMENT
- EXISTING FENCE
- EXISTING RAILWAY TRACK
- EXISTING DRAIN
- EXISTING TRACK



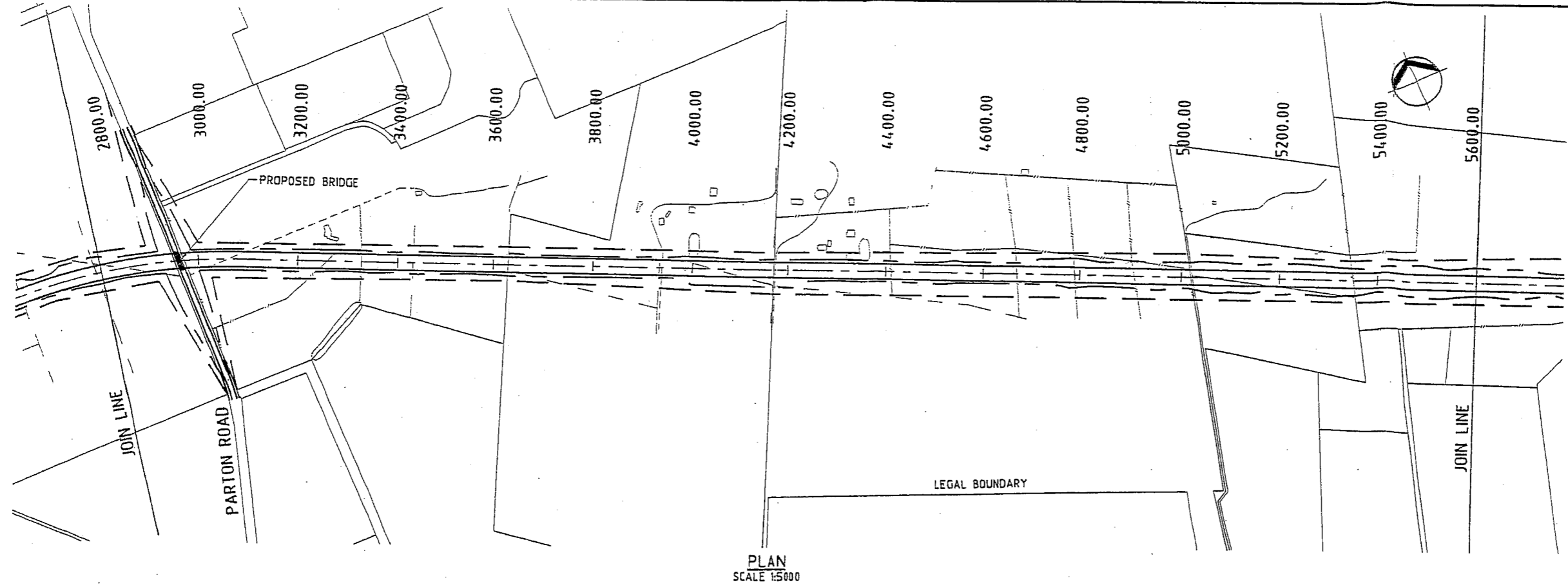
| DESIGN SURFACE | | EXISTING SURFACE | | DISTANCE | | VERTICAL ALIGNMENT | | HORIZONTAL ALIGNMENT | |
|----------------|------|------------------|-------|----------|--|--------------------|------------------------------|----------------------|--|
| 0.00 | 7.63 | 0.00 | 8.36 | 0.00 | TANGENT 14.5m @ 0.65% | 0.00 | TANGENT 28.95m @ 318d47'55" | | |
| 200.00 | 8.81 | 200.00 | 8.00 | 200.00 | VERTICAL CURVE L=250m K=126.25 A=-1.98% | 200.00 | CURVE L=669.72m R=3000.00m | | |
| 400.00 | 7.65 | 400.00 | 6.24 | 400.00 | VERTICAL CURVE L=250m K=129.71 A=1.93% | 400.00 | | | |
| 600.00 | 6.60 | 600.00 | 5.05 | 600.00 | TANGENT 4.05m @ 0.60% | 600.00 | | | |
| 800.00 | 7.72 | 800.00 | 6.07 | 800.00 | VERTICAL CURVE L=250m K=180.26 A=-1.39% | 800.00 | TANGENT 806.74m @ 331d35'22" | | |
| 1000.00 | 8.91 | 1000.00 | 10.28 | 1000.00 | TANGENT 710m @ -0.79% | 1000.00 | | | |
| 1200.00 | 9.17 | 1200.00 | 13.00 | 1200.00 | VERTICAL CURVE L=480m K=606.59 A=0.79% | 1200.00 | CURVE L=501.62m R=1100.00m | | |
| 1400.00 | 8.17 | 1400.00 | 5.07 | 1400.00 | TANGENT 610m @ 0.00% | 1400.00 | | | |
| 1600.00 | 6.85 | 1600.00 | 4.97 | 1600.00 | | 1600.00 | | | |
| 1800.00 | 5.70 | 1800.00 | 4.39 | 1800.00 | | 1800.00 | | | |
| 2000.00 | 5.40 | 2000.00 | 3.88 | 2000.00 | | 2000.00 | | | |
| 2200.00 | 5.40 | 2200.00 | 3.82 | 2200.00 | | 2200.00 | | | |
| 2400.00 | 5.40 | 2400.00 | 4.25 | 2400.00 | | 2400.00 | | | |
| 2600.00 | 5.40 | 2600.00 | 3.60 | 2600.00 | VERTICAL CURVE L=200m K=1600.00 A=-0.13% | 2600.00 | CURVE L=504.26m R=1200.00m | | |

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LONG SECTION
HORIZONTAL SCALE 1:5000
VERTICAL SCALE 1:1000

| | | | | | | | |
|--|---|--|---|--|--|--|---|
| A FOR DESIGNATION No. 1 Revision Add Date | <p>Beca Carter Hollings & Ferner Ltd. Consulting Engineers</p> <p>Auckland, Wellington, Christchurch, New Plymouth, Tauranga, Melbourne, Sydney, Port Moresby, Jakarta, Singapore, Brunel.</p> | Designed: [Signature] Drawn: [Signature] Traced: CAD Dsg Check: [Signature] Dra Check: [Signature] | Approved for Construction: [Signature] Sign: [Signature] Date: [Date] | Scale as drawn: 1:5000/1000 Reduced Drawing: 1:10000/2000 | <p>TAURANGA EASTERN ARTERIAL CIVIL</p> | DESIGNATION REQUIREMENT PLAN SHEET 1 OF 6 | Job No. 9301240 Dra No. P007 Rev. |
|--|---|--|---|--|--|--|---|

Beca Carter Hollings & Ferner



PLAN
SCALE 1:5000

LEGEND

- EDGE OF SEAL
- - - - - EXTENT OF BATTERS
- - - - - DESIGNATION REQUIREMENT
- - - - - CENTRELINE OF ALIGNMENT
- - - - - EXISTING FENCE
- - - - - EXISTING RAILWAY TRACK
- - - - - EXISTING DRAIN
- - - - - EXISTING TRACK

VPI @ 2900.00
RL = 5.15m

DESIGN SURFACE

EXISTING SURFACE

| | | | | | | | | | | | | | | | | | |
|----------------------|--|--|---------|--|---------|--|---------|--|---------|--|---------|--|---------|--|---------|--|---------|
| DATUM RL = -5.00m | | | | | | | | | | | | | | | | | |
| DESIGN SURFACE | 5.28 | | 5.15 | | 5.15 | | 5.15 | | 5.15 | | 5.15 | | 5.15 | | 5.15 | | 5.15 |
| EXISTING SURFACE | 3.74 | | 4.80 | | 4.91 | | 4.87 | | 4.02 | | 3.66 | | 2.00 | | 3.39 | | 4.40 |
| DISTANCE | 2800.00 | | 3000.00 | | 3200.00 | | 3400.00 | | 3600.00 | | 3800.00 | | 4000.00 | | 4200.00 | | 4400.00 |
| VERTICAL ALIGNMENT | VERTICAL CURVE L=200m K=1600.00 A=0.137% | | | | | | | | | | | | | | | | |
| HORIZONTAL ALIGNMENT | CURVE L=504.26m R=1200.00m | | | | | | | | | | | | | | | | |
| | TANGENT L=890m @ 0.02% | | | | | | | | | | | | | | | | |
| | TANGENT 3728.63m @ 333d38'26" | | | | | | | | | | | | | | | | |

LONG SECTION
HORIZONTAL SCALE 1:5000
VERTICAL SCALE 1:1000

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3. DTM DATA AND AERIAL PHOTOGRAPHY SUPPLIED BY NEW ZEALAND AERIAL MAPPING LTD.
4. FLOOD LEVEL DATA SUPPLIED BY ENVIRONMENT B.O.P.

| | | | |
|-----|-----------------|-----|------|
| No. | Revision | Add | Date |
| A | FOR DESIGNATION | | |

Beca Carter Hollings & Ferner Ltd.
 Auckland, Wellington, Christchurch, New Plymouth, Tauranga,
 Melbourne, Sydney, Port Moresby, Jakarta, Singapore, Brunei.
 Consulting Engineers

| | | |
|------------|---------------------------|----------------|
| Designed | Approved for Construction | Scale as drawn |
| Drawn | Checked | 1:5000/1000 |
| Traced | Sign | Reduced |
| Iss. Check | Date | Drawing |
| Dra. Check | Date | 1:10000/2000 |

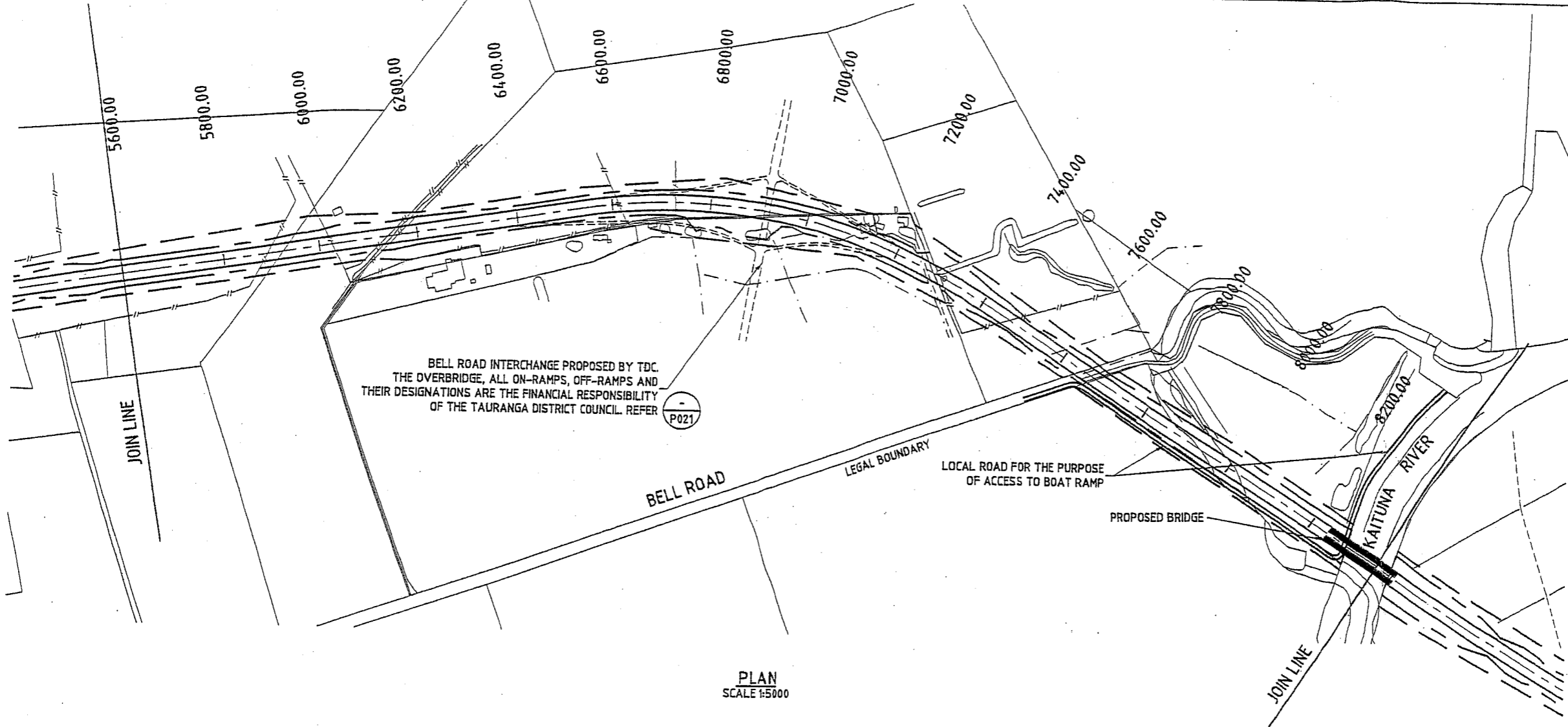


TAURANGA
EASTERN ARTERIAL
CIVIL

DESIGNATION
REQUIREMENT PLAN
SHEET 2 OF 6

| | |
|----------|---------|
| Job No. | 9301240 |
| Dir. No. | P008 |
| Rev. | |

Beca Carter Hollings & Ferner



| | | | | | | | | | | | | | | | | |
|----------------------|--------------------------------|---------|---------|---------|---------|-------------------------------|---------|---------|---------|---------|--|---------|--------------------------|---------|--|-------------------------|
| DATUM RL= -5.00m | | | | | | | | | | | | | | | | |
| DESIGN SURFACE | 5.15 | 5.15 | 5.15 | 5.15 | 5.15 | 5.15 | 5.15 | 5.15 | 5.15 | 5.15 | 5.15 | 5.15 | 5.15 | 5.15 | 5.15 | |
| EXISTING SURFACE | 9.6 | 7.6 | 9.95 | 6.5 | 7.52 | 7.16 | 6.32 | 5.07 | 1.81 | 6.47 | 1.27 | 2.83 | 6.07 | 5.63 | 6.81 | |
| DISTANCE | 5600.00 | 5800.00 | 6000.00 | 6200.00 | 6400.00 | 6600.00 | 6800.00 | 7000.00 | 7200.00 | 7400.00 | 7600.00 | 7800.00 | 8000.00 | 8200.00 | | |
| VERTICAL ALIGNMENT | TANGENT L=758m @ 0.00% | | | | | | | | | | VERTICAL CURVE L=14m K=777 A=777 | | TANGENT L=28m @ 1.00% | | VERTICAL CURVE L=94m K=777 A=777 | TANGENT L=5m @ 0.00% |
| HORIZONTAL ALIGNMENT | TANGENT L=3448.82m @ 77d77" | | | | | CURVE L=848.31m R=1150.00m | | | | | TANGENT L=1949.56m @ 77d77" | | | | | |

- LEGEND**
- EDGE OF SEAL
 - - - EXTENT OF BATTERS
 - - - DESIGNATION REQUIREMENT
 - - - CENTRELINE OF ALIGNMENT
 - - - EXISTING FENCE
 - - - EXISTING RAILWAY TRACK
 - - - EXISTING DRAIN
 - - - EXISTING TRACK

- NOTES:-**
- CROWN COPYRIGHT RESERVED. LEGAL BOUNDARY INFORMATION REPRINTED WITH PERMISSION OF TAURANGA DISTRICT COUNCIL LICENCE No. HN/033523 & WESTERN BAY OF PLENTY DISTRICT COUNCIL LICENCE No. HN35220003.
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 - DTM DATA AND AERIAL PHOTOGRAPHY SUPPLIED BY NEW ZEALAND AERIAL MAPPING LTD.
 - FLOOD LEVEL DATA SUPPLIED BY ENVIRONMENT B.O.P.

LONG SECTION
HORIZONTAL SCALE 1:5000
VERTICAL SCALE 1:1000

| | | | |
|-----|--|-----|--------|
| C | MINOR CHANGES TO ACCESS ROAD DESCRIPTION | JH | 4.5.06 |
| B | ALIGNMENT AMENDED TO AVOID RESERVE | JH | 4.5.06 |
| A | FOR DESIGNATION | JH | 4.5.06 |
| No. | Revision | Add | Date |

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| | | | |
|-------------|-----|---------------------------|-----------------|
| Designed | S/J | Approved for Construction | Scale as drawn |
| Drawn | BL | Sign | 1:5000/1000 |
| Trace | CAD | Sign | Reduced Drawing |
| Des. Check | S/J | Date | 1:10000/2000 |
| Drwg. Check | S/J | Date | |



TAURANGA
EASTERN ARTERIAL
CIVIL

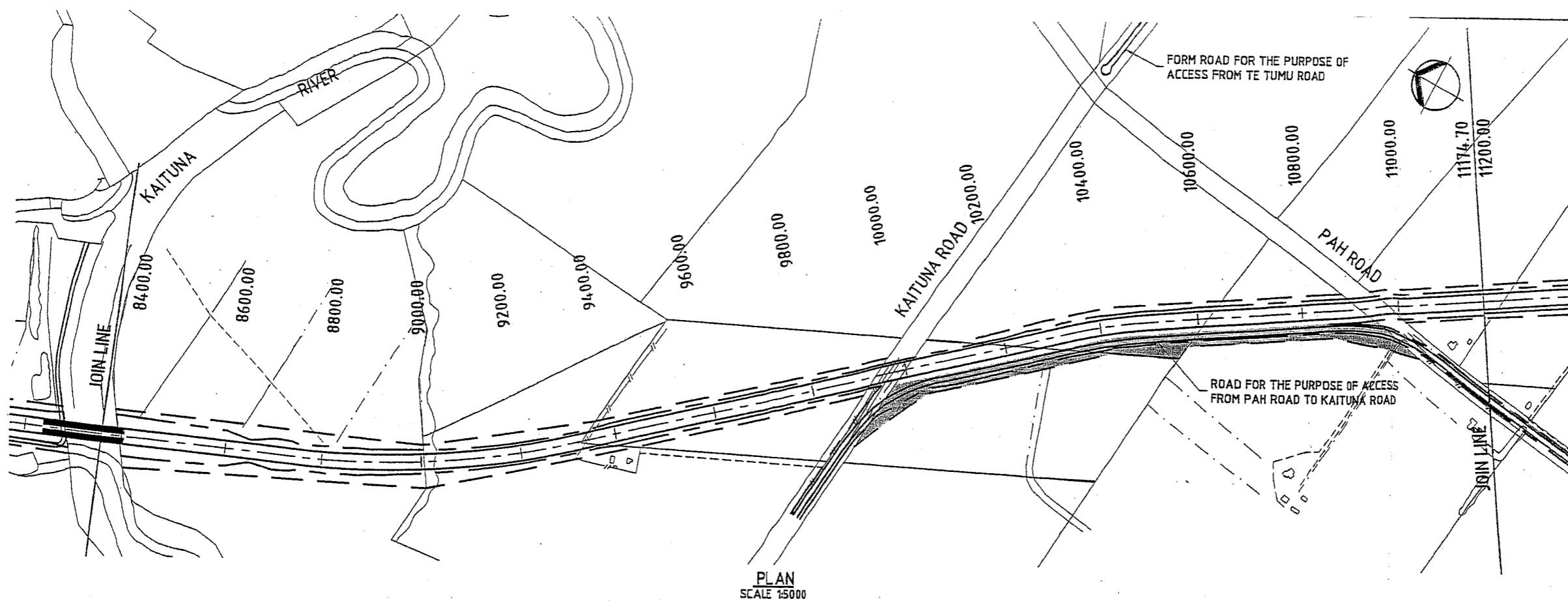
DESIGNATION
REQUIREMENT PLAN
SHEET 3 OF 6

| | |
|---------|---------|
| Job No. | 9301240 |
| Org No. | P009 |
| Rev. | |

Beca Carter Hollings & Ferner

Beca Carter Hollings & Ferner

CAO DRG. No. P:19318074/04/CA041240P009



PLAN
SCALE 1:5000

LEGEND

- EDGE OF SEAL
- - - - - EXTENT OF BATTERS
- - - - - DESIGNATION REQUIREMENT
- - - - - CENTRELINE OF ALIGNMENT
- - - - - EXISTING FENCE
- - - - - EXISTING RAILWAY TRACK
- - - - - EXISTING DRAIN
- - - - - EXISTING TRACK
- - - - - LEGAL BOUNDARY

AREA OF LOCAL ROAD TO BE DESIGNATED FOR THE PURPOSE OF ACCESS



DATUM RL = -5.00m

| | | | | | | | | | | | | | | | | | | |
|----------------------|---|---------|---|-------------------------------|--|---------|----------------------------|-----------------------------|----------|----------|----------|-------------------------------|----------|---------------------------------|----------|----------|----------|----------|
| DESIGN SURFACE | 7.00 | 6.20 | 3.90 | 3.15 | 3.15 | 3.15 | 3.15 | 3.15 | 3.15 | 3.15 | 3.15 | 3.15 | 3.15 | 3.15 | 3.15 | 3.15 | 3.15 | 3.15 |
| EXISTING SURFACE | 0.66 | 1.16 | 1.47 | 1.46 | 1.45 | 1.45 | 1.70 | 2.31 | 2.84 | 1.99 | 3.10 | 1.49 | 1.49 | 1.65 | 1.65 | 1.65 | 1.65 | 1.65 |
| DISTANCE | 8400.00 | 8600.00 | 8800.00 | 9000.00 | 9200.00 | 9400.00 | 9600.00 | 9800.00 | 10000.00 | 10200.00 | 10400.00 | 10600.00 | 10800.00 | 11000.00 | 11200.00 | 11400.00 | 11600.00 | 11800.00 |
| VERTICAL ALIGNMENT | VERTICAL CURVE L=570m K=??? A=1.00% | | VERTICAL CURVE L=570m K=??? A=1.00% | | VERTICAL CURVE L=16m K=??? A=1.00% | | TANGENT 3561.7m @ 0.00% | | | | | | | | | | | |
| HORIZONTAL ALIGNMENT | TANGENT 1349.56m @ 7.7d?? | | | CURVE L=587.81m R=1750.00m | | | | TANGENT 999.51m @ 7.7d?? | | | | CURVE L=172.15m R=1150.00m | | TANGENT 3710.50m @ 302d2'38" | | | | |

LONG SECTION
HORIZONTAL SCALE 1:5000
VERTICAL SCALE 1:1000

- NOTES:-
1. CROWN COPYRIGHT RESERVED. LEGAL BOUNDARY INFORMATION REPRINTED WITH PERMISSION OF TAURANGA DISTRICT COUNCIL LICENCE No. HN/033523 & WESTERN BAY OF PLENTY DISTRICT COUNCIL LICENCE No. HN35220003.
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 3. DTM DATA AND AERIAL PHOTOGRAPHY SUPPLIED BY NEW ZEALAND AERIAL MAPPING LTD.
 4. FLOOD LEVEL DATA SUPPLIED BY ENVIRONMENT B.O.P.

| | | | |
|-----|--|------|----------|
| D | MINOR CHANGES TO ACCESS ROAD DESCRIPTIONS | JJH | 4/1/2010 |
| C | ALIGNMENT AMENDED TO AVOID RESERVE | DRY | 5.5.09 |
| B | LEGAL BOUNDARY ADDED TO LEGEND, KAITUNA RD EXTENSION ADDED | DRY | 12.3.09 |
| A | FOR DESIGNATION | JJH | 4.5.09 |
| No. | Revision | Appd | Date |

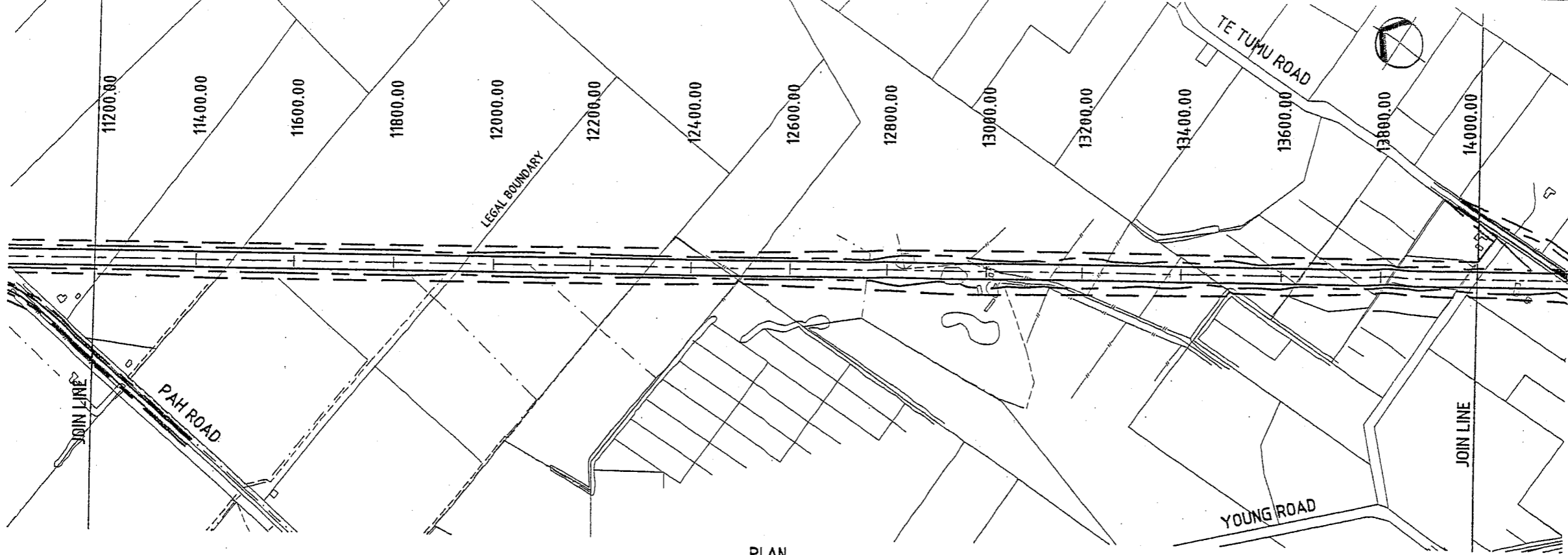
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Consulting Engineers
Auckland, Wellington, Christchurch, New Plymouth, Tauranga, Melbourne, Sydney, Port Moresby, Jakarta, Singapore, Brunel.

| | | | |
|-----------|-----|---------------------------|-----------------|
| Designed | SJF | Approved for Construction | Scale as drawn |
| Drawn | BL | | 1:5000/1000 |
| Tread | CAD | Sign | Reduced Drawing |
| Dep Check | | | 1:10000/2000 |
| Drq Check | SJF | Date | |



| | | |
|---------------------------|------------------------------|-----------------|
| TAURANGA EASTERN ARTERIAL | DESIGNATION REQUIREMENT PLAN | Job No. 9301240 |
| CIVIL | SHEET 4 OF 6 | Drq No. P010 |

Beca Carter Hollings & Ferner



PLAN
SCALE 1:5000

LEGEND

- EDGE OF SEAL
- - - EXTENT OF BATTERS
- - - DESIGNATION REQUIREMENT
- - - CENTRELINE OF ALIGNMENT
- - - EXISTING FENCE
- - - EXISTING RAILWAY TRACK
- - - EXISTING DRAIN
- - - EXISTING TRACK

| DESIGN SURFACE | EXISTING SURFACE | | | | | | | | | | | | | | | | | |
|----------------------|---------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|---|----------|----------|--------------------------|----------|------|------|------|------|
| | 3.75 | 3.75 | 3.75 | 3.75 | 3.75 | 3.75 | 3.75 | 3.75 | 3.75 | 3.75 | 3.75 | 3.75 | 4.11 | 5.16 | 6.27 | 7.38 | 8.49 | 9.60 |
| EXISTING SURFACE | 1.54 | 1.34 | 1.10 | 0.80 | 1.44 | 1.49 | 2.16 | 2.13 | 4.93 | 8.48 | 8.74 | 8.24 | 7.67 | 10.26 | | | | |
| DISTANCE | 11200.00 | 11400.00 | 11600.00 | 11800.00 | 12000.00 | 12200.00 | 12400.00 | 12600.00 | 12800.00 | 13000.00 | 13200.00 | 13400.00 | 13600.00 | 13800.00 | | | | |
| VERTICAL ALIGNMENT | TANGENT 3760m @ 0.00% | | | | | | | | | VERTICAL CURVE L=250m K=450.53 A=0.55% | | | TANGENT 1360m @ 0.55% | | | | | |
| HORIZONTAL ALIGNMENT | TANGENT 4207.03m @ 302d2'38" | | | | | | | | | | | | | | | | | |

NOTES:-

1. CROWN COPYRIGHT RESERVED. LEGAL BOUNDARY INFORMATION REPRINTED WITH PERMISSION OF TAURANGA DISTRICT COUNCIL LICENCE No. HN/033523 & WESTERN BAY OF PLENTY DISTRICT COUNCIL LICENCE No. HN35220003.
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3. DTM DATA AND AERIAL PHOTOGRAPHY SUPPLIED BY NEW ZEALAND AERIAL MAPPING LTD.
4. FLOOD LEVEL DATA SUPPLIED BY ENVIRONMENT B.O.P.

LONG SECTION
HORIZONTAL SCALE 1:5000
VERTICAL SCALE 1:1000

| | | | |
|-----|-------------------------------|------|--------|
| B | TE TUMU ROAD CROSSING AMENDED | JJH | 4.5.99 |
| A | FOR DESIGNATION | JJH | 4.5.99 |
| No. | Revision | Appd | Date |

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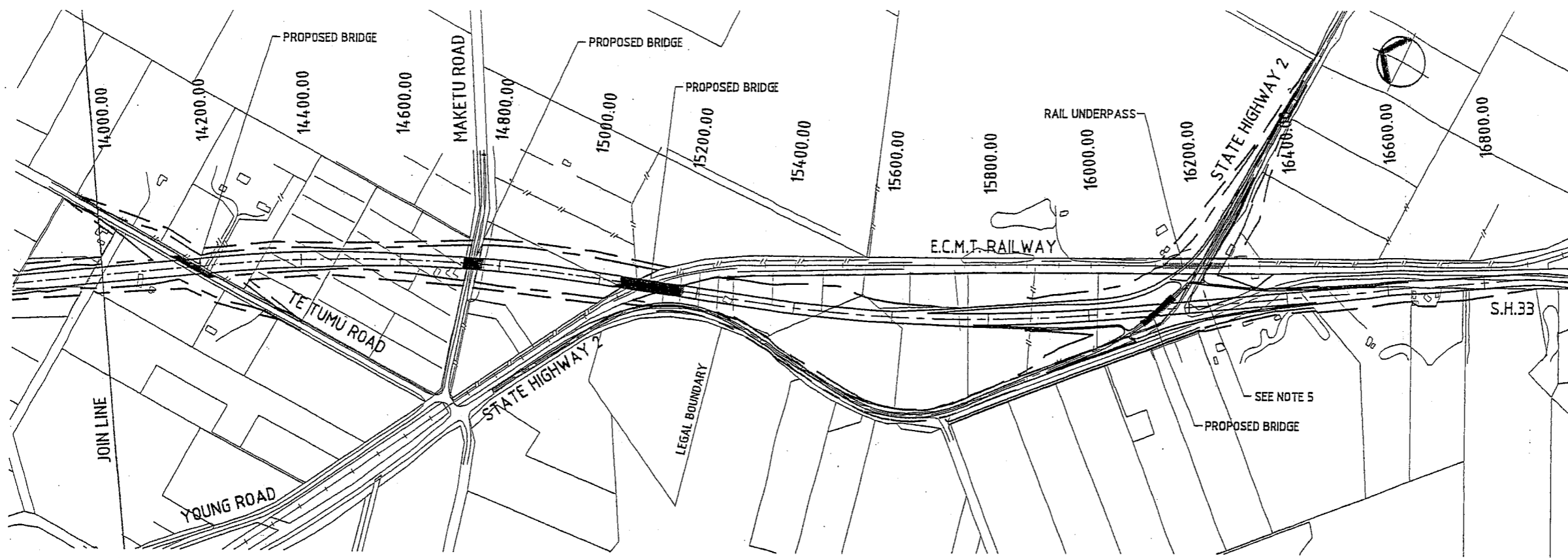
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|-----------|-----|---------------------------|-----|
| Designed | SJF | Approved for Construction | SJF |
| Drawn | BIT | | |
| Traced | CAD | Sign | |
| Doc Check | | | |
| Dwg Check | SJF | Date | |

TRANSIT
NEW ZEALAND
LAND AND WATER

| |
|------------------------------|
| TAURANGA EASTERN ARTERIAL |
| CIVIL |

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| DESIGNATION REQUIREMENT PLAN |
| SHEET 5 OF 6 |

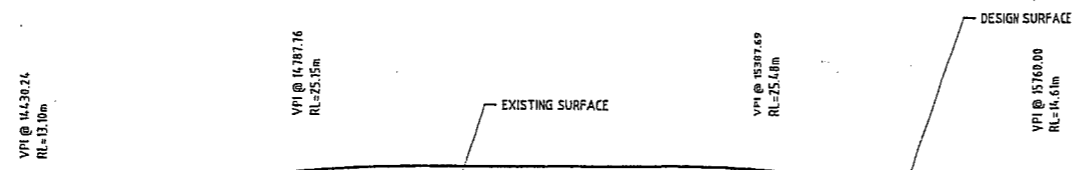
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| Job No. 9301240 |
| Dwg No. P011 |
| Rev. A |



PLAN
SCALE 1:5000

LEGEND

- EDGE OF SEAL
- - - - - EXTENT OF BATTERS
- - - - - DESIGNATION REQUIREMENT
- - - - - CENTRELINE OF ALIGNMENT
- - - - - EXISTING FENCE
- - - - - EXISTING RAILWAY TRACK
- - - - - EXISTING DRAIN
- - - - - EXISTING TRACK



| DATUM RL = -5.00m | | | | | | | | | | | | | | | | | | | | |
|----------------------|---------------------------------|-----------|--|-----------|-------------------------------------|-----------|----------------------------|-----------|-------------------------------------|-----------|---|-----------|-------------------------------|-----------|--|--|---------------------------------|--|--|--|
| DESIGN SURFACE | 10.74 | 11.82 | 13.95 | 16.85 | 21.04 | 25.27 | 25.38 | 21.24 | 18.16 | 16.15 | 15.81 | 16.81 | 17.81 | 18.81 | | | | | | |
| EXISTING SURFACE | 11.01 | 10.92 | 14.04 | 14.92 | 14.97 | 16.55 | 17.18 | 14.38 | 12.89 | 14.43 | 15.81 | 15.03 | 17.53 | 17.99 | | | | | | |
| DISTANCE | 14,000.00 | 14,200.00 | 14,400.00 | 14,600.00 | 14,800.00 | 15,000.00 | 15,200.00 | 15,400.00 | 15,600.00 | 15,800.00 | 16,000.00 | 16,200.00 | 16,400.00 | 16,600.00 | | | | | | |
| VERTICAL ALIGNMENT | TANGENT 1360.24m @ 0.55% | | VERTICAL CURVE L=400m K=12.09 A=2.82% | | VERTICAL CURVE L=320.39m K=7 A=? | | TANGENT 299.95m @ 0.06% | | VERTICAL CURVE L=279.42m K=7 A=? | | VERTICAL CURVE L=460m K=134.58 A=3.42% | | TANGENT 1145m @ 0.50% | | | | | | | |
| HORIZONTAL ALIGNMENT | TANGENT 4207.03m @ 302d2'38" | | | | CURVE L=739.36m R=3000.00m | | | | TANGENT 362.61m @ 287d55'23" | | | | CURVE L=770.29m R=3000.00m | | | | TANGENT 7934.5m @ 351d25'19" | | | |

LONG SECTION
HORIZONTAL SCALE 1:5000
VERTICAL SCALE 1:1000

NOTES:-

1. CROWN COPYRIGHT RESERVED, LEGAL BOUNDARY INFORMATION REPRINTED WITH PERMISSION OF TAURANGA DISTRICT COUNCIL LICENCE No. HN/033523 & WESTERN BAY OF PLENTY DISTRICT COUNCIL LICENCE No. HN35220003.
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3. DTM DATA AND AERIAL PHOTOGRAPHY SUPPLIED BY NEW ZEALAND AERIAL MAPPING LTD.
4. FLOOD LEVEL DATA SUPPLIED BY ENVIRONMENT B.O.P.
5. POSSIBLE INTERIM AT GRADE INTERSECTION TO BE PROVIDED.

| No. | Revision | Appd | Date |
|-----|---|------|----------|
| C | MAKETU & TE TUMU ROAD CROSSINGS AMENDED | JH | 16.08.00 |
| B | SH 2 REALIGNED, RAIL UNDERPASS ADDED | JH | 16.08.00 |
| A | FOR DESIGNATION | JH | 4.5.99 |

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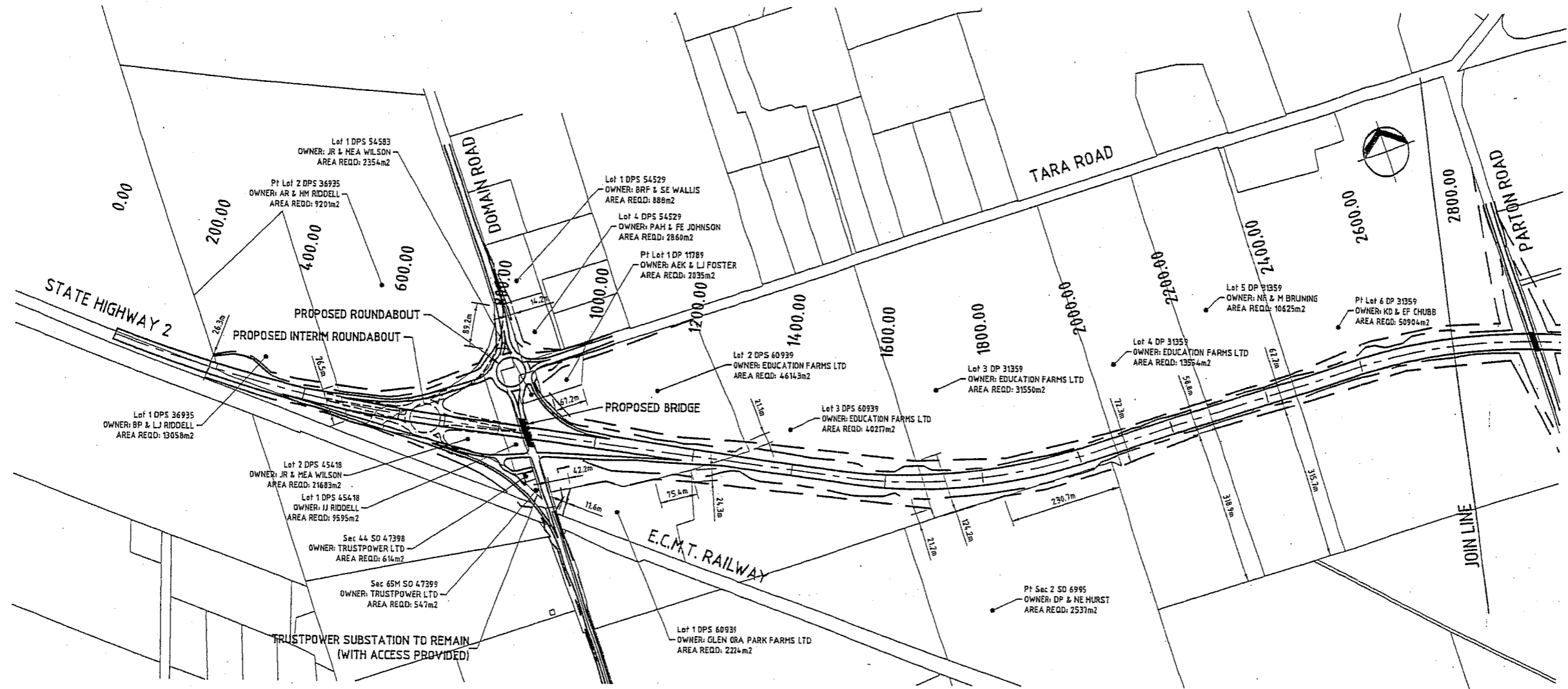
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|------------|------|---------------------------|-----------------|
| Designed | SJF | Approved for Construction | Scale as drawn |
| Drawn | BILL | | 1:5000/1000 |
| Trace | CAD | Sign | Reduced Drawing |
| Des. Check | | | 1:10000/2000 |
| Dwg. Check | SJF | Date | |



TAURANGA
EASTERN ARTERIAL
CIVIL

DESIGNATION
REQUIREMENT PLAN
SHEET 6 OF 6

| | |
|---------|---------|
| Job No. | 9301240 |
| Dwg No. | P012 |
| Rev. | |



PLAN
SCALE 1:5000

LEGEND

- EDGE OF SEAL
- - - EXTENT OF BATTERS
- DESIGNATION REQUIREMENT
- - - CENTRELINE OF ALIGNMENT
- LEGAL BOUNDARY

NOTES:-

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3. FLOOD LEVEL DATA SUPPLIED BY ENVIRONMENT B.O.P.

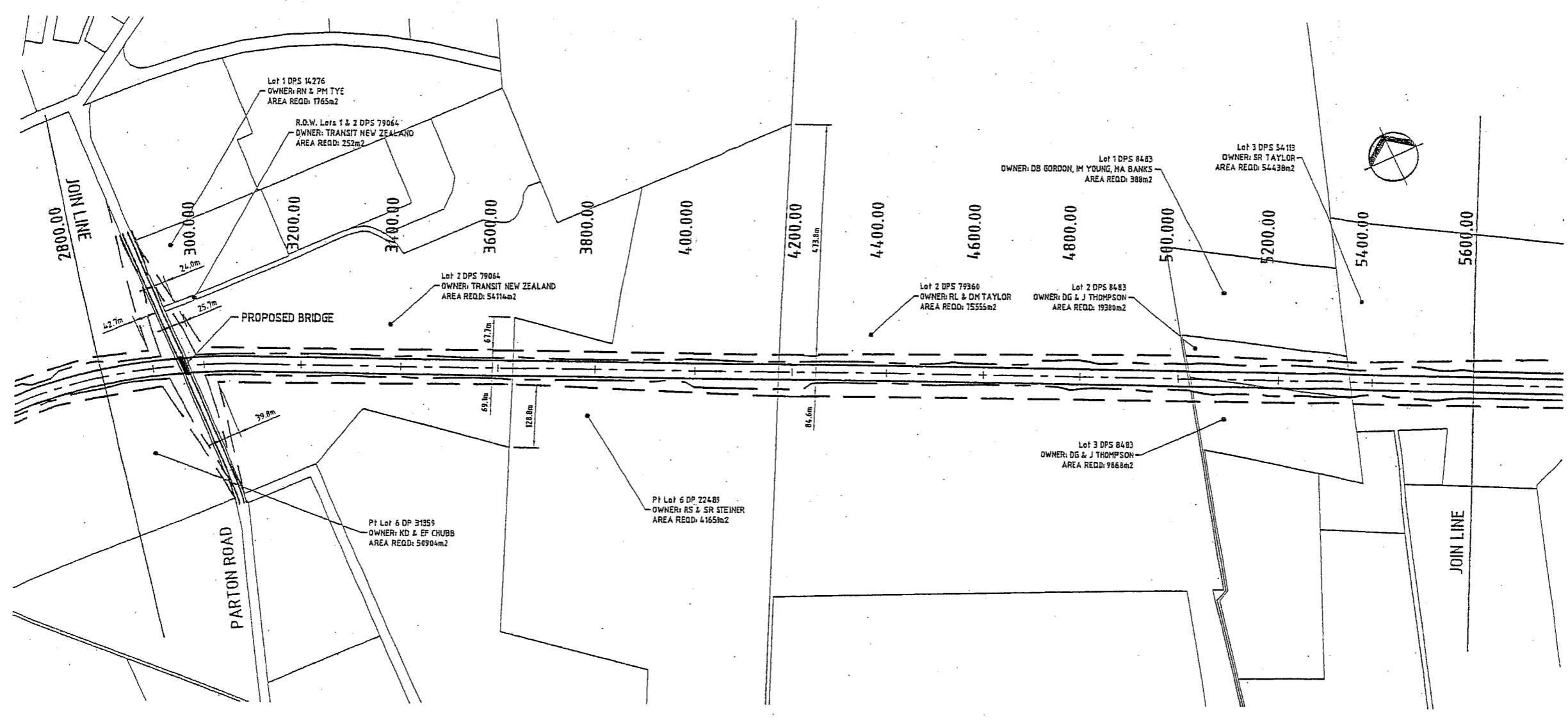
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|-----|--|-----|---------|
| No. | Revision | Add | Date |
| B | MINOR ADJUSTMENTS TO EXTENT OF BATTERS | DRY | 23/4/99 |
| A | FOR DESIGNATION | JJH | 4.5.99 |

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| | | | |
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| Designed | SJF | Approved for Construction | Scale as drawn |
| Drawn | BIL | | 1:5000/1000 |
| Traced | CAD | Sign | Reduced Drawing |
| Des. Check | | | |
| Dra. Check | SJF | Date | 1:10000/2000 |



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|---------------------------|-----------------------|-----------------|
| TAURANGA EASTERN ARTERIAL | LAND REQUIREMENT PLAN | Job No. 9301240 |
| CIVIL | SHEET 1 OF 6 | Dwg No. P013 |



PLAN
SCALE 1:5000

LEGEND

- EDGE OF SEAL
- EXTENT OF BATTERS
- DESIGNATION REQUIREMENT
- CENTRELINE OF ALIGNMENT
- LEGAL BOUNDARY

NOTES:-

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3. FLOOD LEVEL DATA SUPPLIED BY ENVIRONMENT B.O.P.

| | | | |
|-----|----------|-------|------|
| No. | Revision | App'd | Date |
| | | | |
| | | | |

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| | | | |
|-----------|-----|---------------------------|-----------------|
| Designed | SJF | Approved for Construction | Scale as drawn |
| Drawn | BL | | 1:5000/1000 |
| Traced | CAD | Sign | Revised Drawing |
| Doc Check | SJF | Date | 1:10000/2004 |

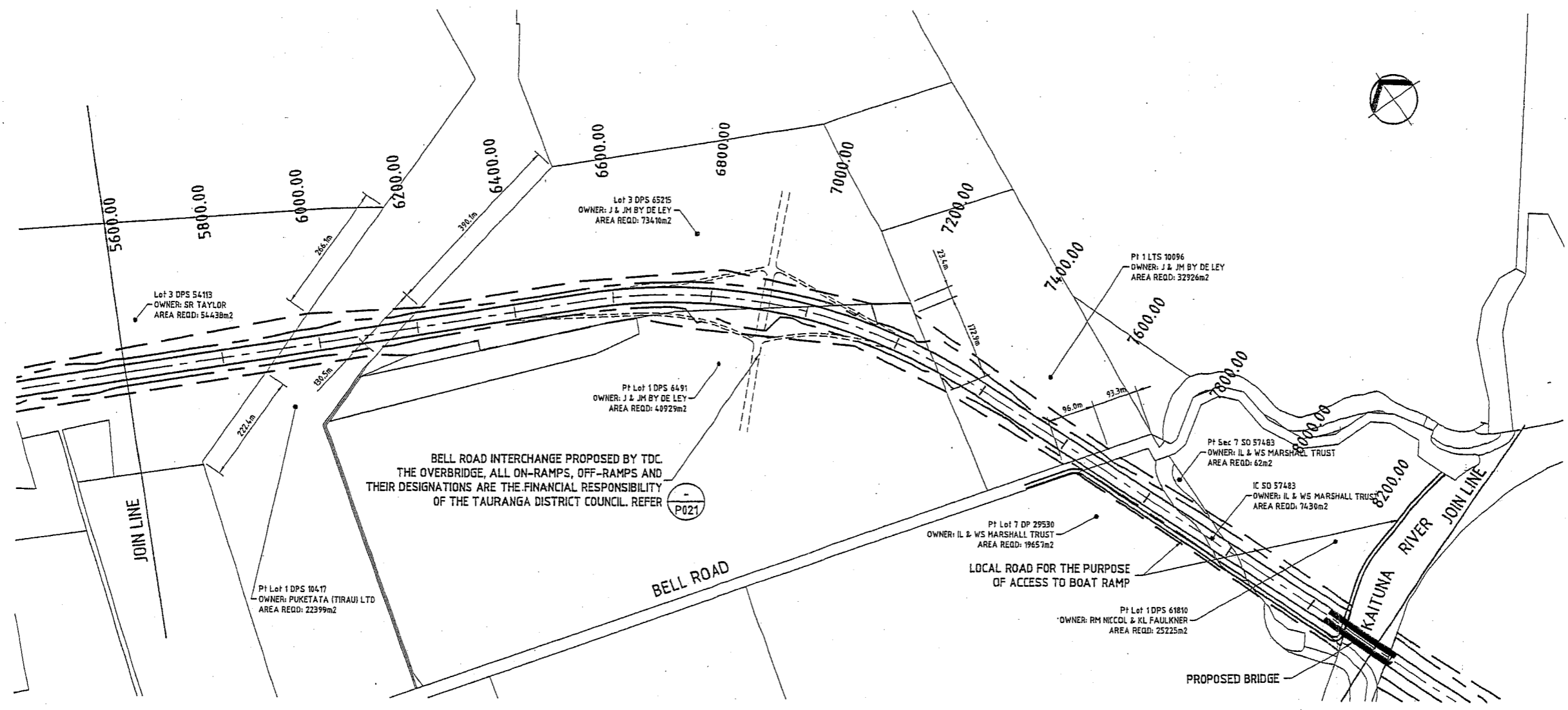


TAURANGA
EASTERN ARTERIAL
CIVIL

LAND REQUIREMENT
PLAN
SHEET 2 OF 6

| | |
|-----------|---------|
| Job No. | 9301240 |
| Drawn No. | P014 |
| Rev. | A |

Beca Carter Hollings & Ferner Ltd. P: 03 35220003 F: 03 35220004



BELL ROAD INTERCHANGE PROPOSED BY TDC. THE OVERBRIDGE, ALL ON-RAMPS, OFF-RAMPS AND THEIR DESIGNATIONS ARE THE FINANCIAL RESPONSIBILITY OF THE TAURANGA DISTRICT COUNCIL. REFER P021

PLAN
SCALE 1:5000

LEGEND

- EDGE OF SEAL
- EXTENT OF BATTERS
- DESIGNATION REQUIREMENT
- CENTRELINE OF ALIGNMENT
- LEGAL BOUNDARY

NOTES:-

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2. DTM DATA AND AERIAL PHOTOGRAPHY SUPPLIED BY NEW ZEALAND AERIAL MAPPING LTD.
3. FLOOD LEVEL DATA SUPPLIED BY ENVIRONMENT B.O.P.

| No. | Revision | Ased | Date |
|-----|--|------|---------|
| D | MINOR CHANGES TO ACCESS ROAD DESCRIPTION | | |
| C | ALIGNMENT ALTERED TO AVOID RESERVE | DRY | 15.00 |
| B | LEGAL BOUNDARY AMENDED BELL ROAD | DRY | 23.6.99 |
| A | FOR DESIGNATION | JJH | 14.5.99 |

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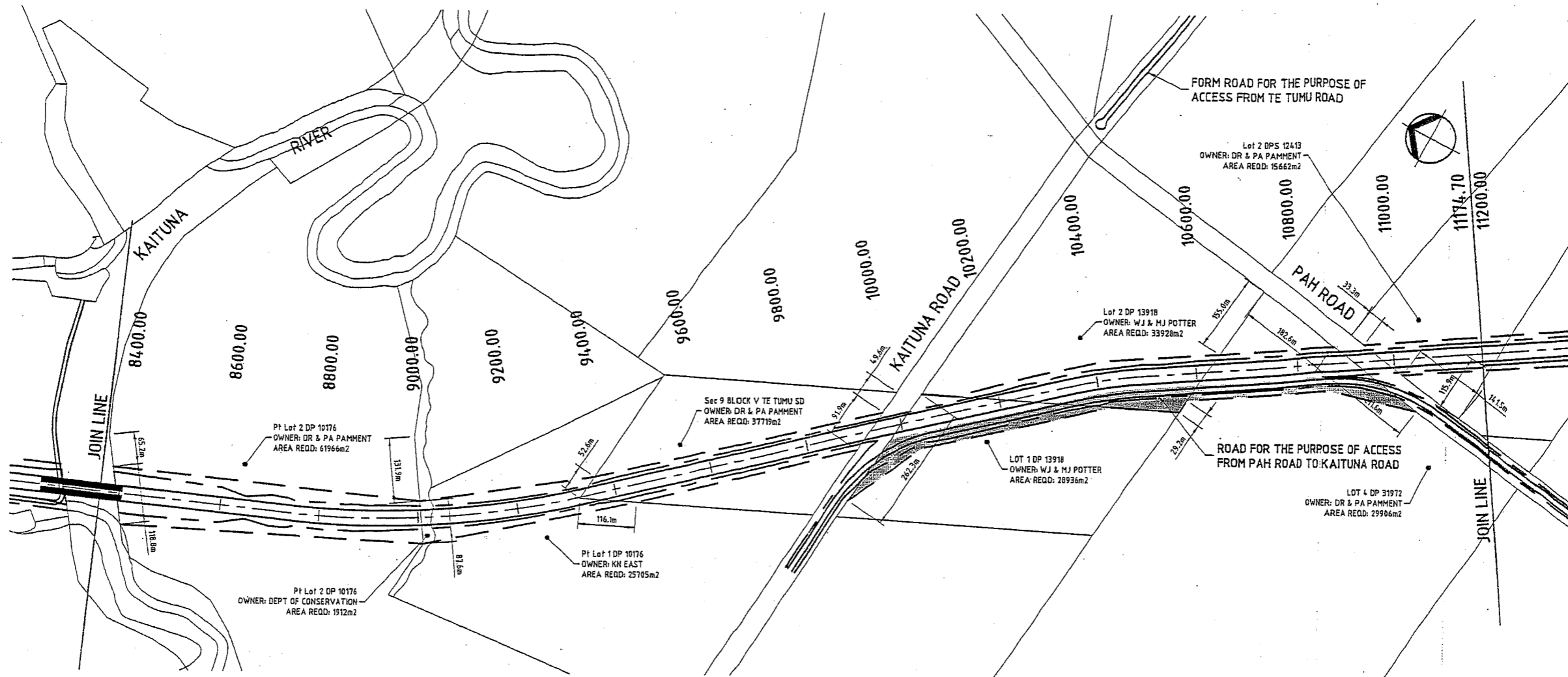
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| Designed | SJF | Approved for Construction | Scale as drawn |
| Drawn | BIT | | 1:5000/10000 |
| Traced | CAD | Sign | Reduced Drawing |
| Des. Check | | Date | 1:10000/2000 |
| Dra. Check | SJF | | |



TAURANGA
EASTERN ARTERIAL
CIVIL

LAND REQUIREMENT
PLAN
SHEET 3 OF 6

| | |
|---------|---------|
| Job No. | 9301240 |
| Dwg No. | P015 |
| Rev. | |



PLAN
SCALE 1:5000

LEGEND

- EDGE OF SEAL
- - - EXTENT OF BATTERS
- - - DESIGNATION REQUIREMENT
- - - CENTRELINE OF ALIGNMENT
- LEGAL BOUNDARY
- AREA OF LOCAL ROAD TO BE DESIGNATED FOR THE PURPOSE OF ACCESS

NOTES:-

1. CROWN COPYRIGHT RESERVED. LEGAL BOUNDARY INFORMATION REPRINTED WITH PERMISSION OF TAURANGA DISTRICT COUNCIL LICENCE No. HN/033523 & WESTERN BAY OF PLENTY DISTRICT COUNCIL LICENCE No. HN35220003.
2. DTM DATA AND AERIAL PHOTOGRAPHY SUPPLIED BY NEW ZEALAND AERIAL MAPPING LTD.
3. FLOOD LEVEL DATA SUPPLIED BY ENVIRONMENT B.O.P.

| No. | Revision | Appd | Date |
|-----|---|------|----------|
| D | MINDR CHANGES TO ACCESS ROAD DESCRIPTIONS | JJH | 23/11/20 |
| C | LAND OWNERSHIP UPDATED TO REFLECT TNZ PURCHASES | JJH | 23/11/20 |
| B | ALIGNMENT AMENDED TO AVOID RESERVE. AREAS AMENDED | JJH | 5/12/20 |
| A | FOR DESIGNATION | JJH | 4/1/21 |

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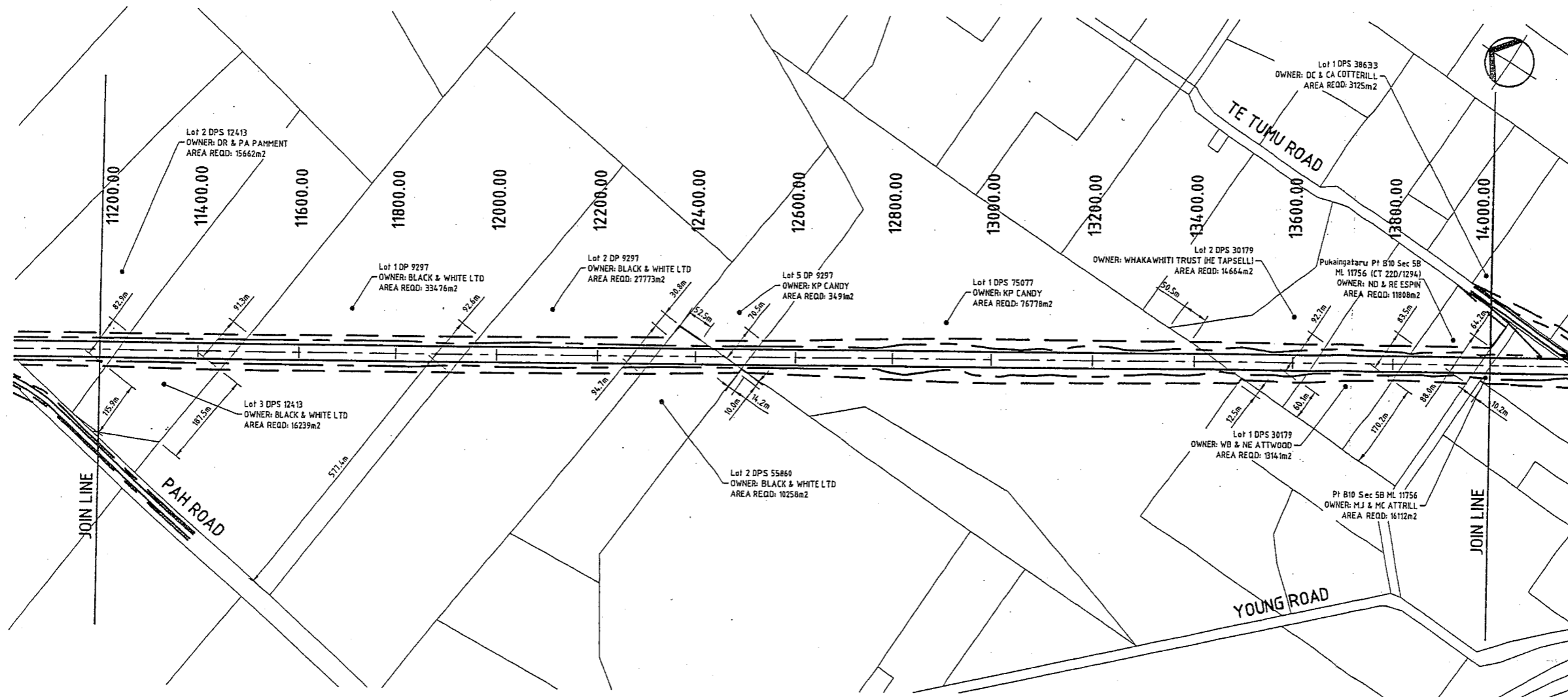
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|-------------|-----|---------------------------|-----------------|
| Designed | SJF | Approved for Construction | Scale as drawn |
| Drawn | BIL | | 1:5000/1000 |
| Traced | CAD | Sign | Reduced Drawing |
| Desig Check | SJF | Date | 1:10000/2000 |
| Draw Check | SJF | Date | |



TAURANGA
EASTERN ARTERIAL
CIVIL

LAND REQUIREMENT
PLAN
SHEET 4 OF 6

| | |
|---------|---------|
| Job No. | 9301240 |
| Rev. | P016 |



PLAN
SCALE 1:5000

LEGEND

- EDGE OF SEAL
- - - - - EXTENT OF BATTERS
- - - - - DESIGNATION REQUIREMENT
- - - - - CENTRELINE OF ALIGNMENT
- LEGAL BOUNDARY

NOTES:-

1. CROWN COPYRIGHT RESERVED. LEGAL BOUNDARY INFORMATION REPRINTED WITH PERMISSION OF TAURANGA DISTRICT COUNCIL LICENCE No. HN/033523 & WESTERN BAY OF PLENTY DISTRICT COUNCIL LICENCE No. HN35220003.
2. DTM DATA AND AERIAL PHOTOGRAPHY SUPPLIED BY NEW ZEALAND AERIAL MAPPING LTD.
3. FLOOD LEVEL DATA SUPPLIED BY ENVIRONMENT B.O.P.

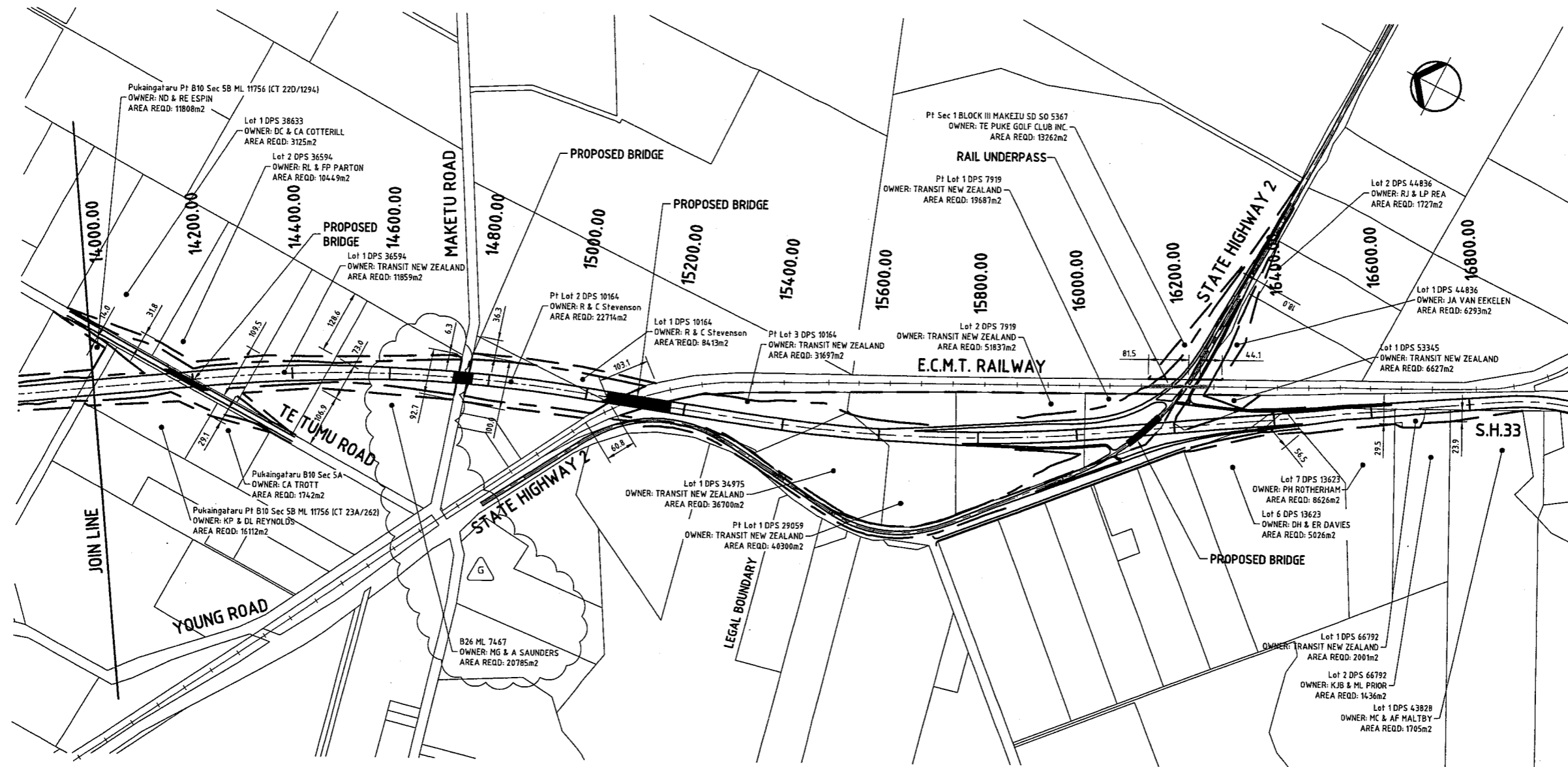
| | | | |
|-----|---|------|----------|
| E | ESPIN PROPERTY DESCRIPTION AMENDED | VY | 12/17 |
| D | TE TUMU ROAD CROSSING & DESIGNATION AREAS AMENDED | DRY | 28/11/07 |
| C | LAND OWNERSHIP UPDATED TO REFLECT TNZ PURCHASES | DRY | 28/9/09 |
| B | MINOR AMENDMENTS TO DESIGNATION BOUNDARY | DRY | 23/6/97 |
| A | FOR DESIGNATION | JJH | 1/5/97 |
| No. | Revision | Appd | Date |

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 Melbourne, Sydney, Port Moresby, Jakarta, Singapore, Brunei.
 Consulting Engineers

| | | | |
|-----------|-----|---------------------------|-----------------|
| Designed | SJF | Approved for Construction | Scale as drawn |
| Drawn | BL | | 1:5000/1000 |
| Traced | CAD | Sign | Reduced Drawing |
| Dwg Check | | Drq Check | 1:10000/2000 |
| Drq Check | SJF | Date | |



| | | |
|------------------------------|--|--------------------|
| TAURANGA EASTERN ARTERIAL | LAND REQUIREMENT PLAN SHEET 5 OF 6 | Job No. 9301240 |
| CIVIL | | Drq No. P017 |



PLAN
SCALE 1:5000

SUPERSEDED

LEGEND

- EDGE OF SEAL
- - - EXTENT OF BATTERS
- DESIGNATION REQUIREMENT
- - - CENTRELINE OF ALIGNMENT
- EXISTING RAILWAY TRACK

NOTES:-

1. CROWN COPYRIGHT RESERVED. LEGAL BOUNDARY INFORMATION REPRINTED WITH PERMISSION OF TAURANGA DISTRICT COUNCIL LICENCE No. HM/033523 & WESTERN BAY OF PLENTY DISTRICT COUNCIL LICENCE No. HN35220003.

| | | | |
|-----|---|------|----------|
| G | PROVISION OF ACCESS TO SAUNDERS PROPERTY FROM MAKETU ROAD | DRY | 4.12.00 |
| F | ESPIN & REYNOLDS PROPERTY DESCRIPTIONS AMENDED | DRY | 24.11.00 |
| E | MAKETU & TE TUMU ROAD CROSSINGS & DESIGNATION AREAS AMENDED | DRY | 28.9.00 |
| D | LAND OWNERSHIP UPDATED TO REFLECT TNZ PURCHASES | DRY | 16.08.00 |
| C | SH 2 REALIGNED, RAIL UNDERPASS ADDED | DRY | 23.6.99 |
| B | OWNERSHIP DETAILS CORRECTED, LOT 1 DPS 66792 | DRY | 4.5.99 |
| A | FOR DESIGNATION | JJH | |
| No. | Revision | Appd | Date |

Beca Carter Hollings & Ferner Ltd.
 Auckland, Wellington, Christchurch, New Plymouth, Tauranga,
 Melbourne, Sydney, Port Moresby, Jakarta, Singapore, Brunel.
 Consulting Engineers

| | | | |
|-----------|-----|---------------------------|-----------------|
| Designed | SJF | Approved for Construction | Scale as drawn |
| Drawn | BIL | | 15000/1000 |
| Traced | CAD | sign | Reduced Drawing |
| Dwg Check | | | 10000/2000 |
| Dwg Check | SJF | Date | |



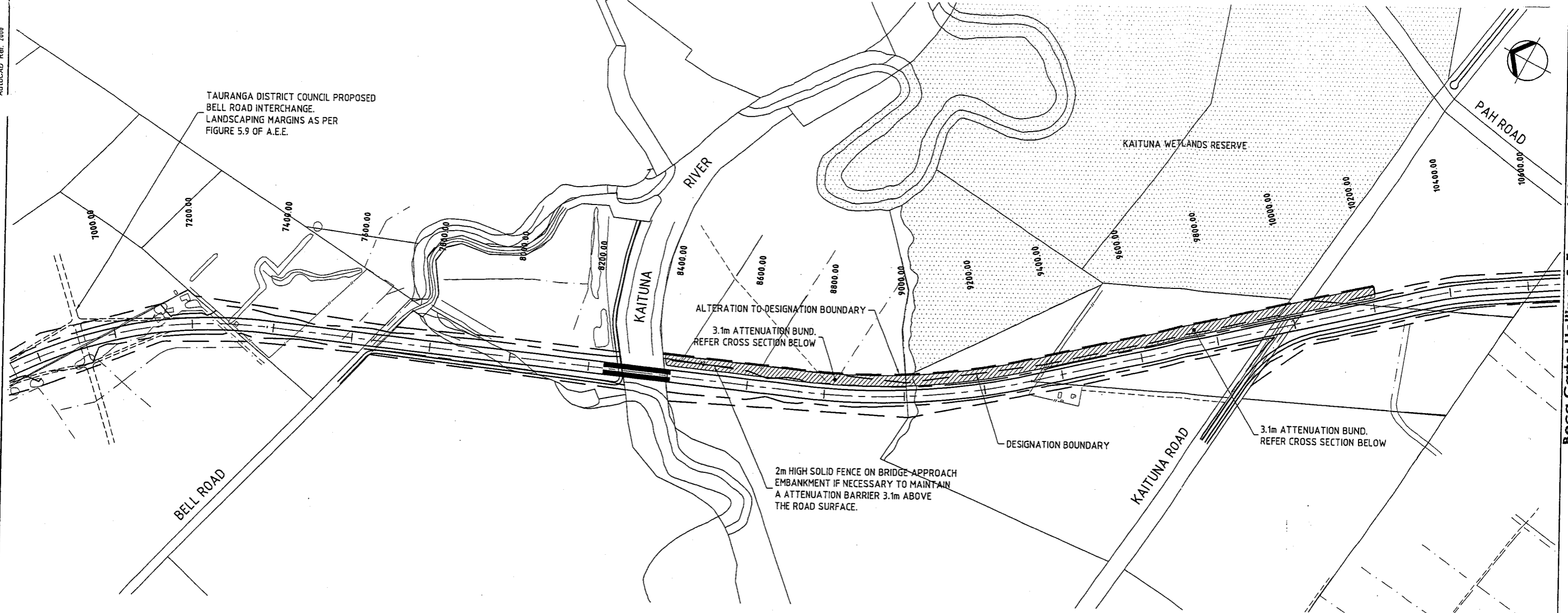
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|------------------------------|--|--------------------|
| TAURANGA EASTERN ARTERIAL | LAND REQUIREMENT PLAN SHEET 6 OF 6 | Job No. 9301240 |
| CIVIL | | Dwg No. P018 |

Beca Carter Hollings & Ferner

Beca Carter Hollings & Ferner

C:\J:\DRG. No. P103193674\14\CAD\TEL-080918

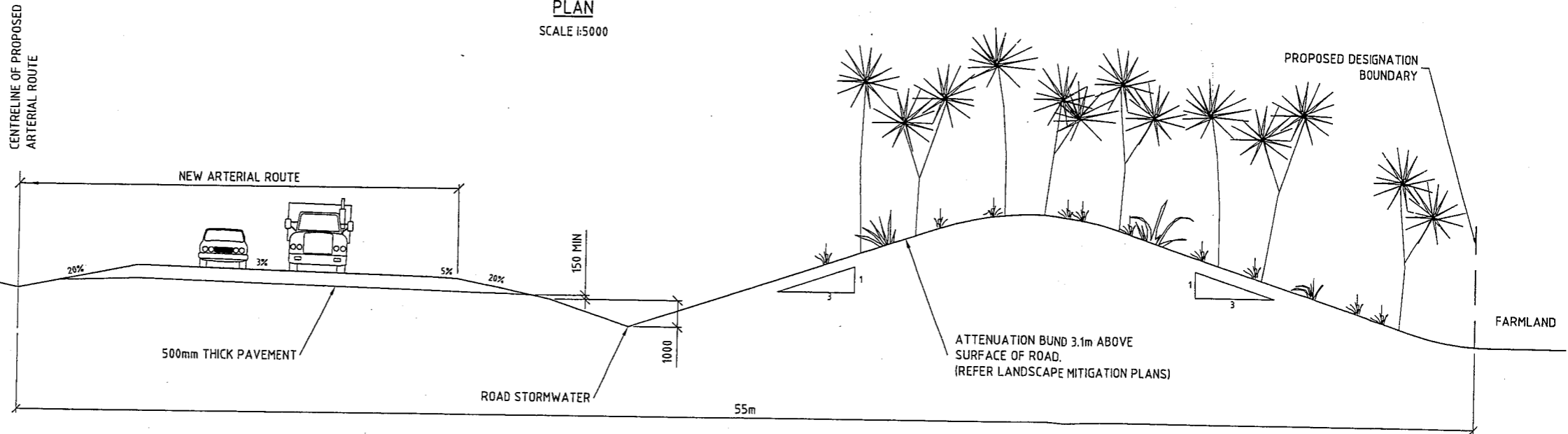
TAURANGA DISTRICT COUNCIL PROPOSED
BELL ROAD INTERCHANGE.
LANDSCAPING MARGINS AS PER
FIGURE 5.9 OF A.E.E.



PLAN
SCALE 1:5000

LEGEND

- EDGE OF SEAL
- - - EXTENT OF BATTERS
- - - DESIGNATION BOUNDARY
- - - ALTERATION TO DESIGNATION BOUNDARY
- - - CENTRELINE OF ALIGNMENT
- - - EXISTING FENCE
- - - EXISTING RAILWAY TRACK
- - - EXISTING DRAIN
- - - EXISTING TRACK
- - - LEGAL BOUDBARY



TYPICAL CROSS SECTION OF 3.1m HIGH
ATTENUATION BUND
SCALE 1:100

- NOTES:-
1. CROWN COPYRIGHT RESERVED. LEGAL BOUNDARY INFORMATION REPRINTED WITH PERMISSION OF TAURANGA DISTRICT COUNCIL LICENCE No. HN/033523 & WESTERN BAY OF PLENTY DISTRICT COUNCIL LICENCE No. HN35220003.
 2. DTM DATA AND AERIAL PHOTOGRAPHY SUPPLIED BY NEW ZEALAND AERIAL MAPPING LTD.

Original size A1
Originating Office: TAURANGA

| | | | | | |
|-----|-----------------|--------|-----|------|----------|
| B | TITLE CHANGE | B. v.B | | | |
| A | FOR DESIGNATION | BIL | DRY | DRY | 18.10.01 |
| No. | Revision | By | Chk | Appd | Date |

Drawing Originator:
Beca Carter Hollings & Ferner Ltd
Consulting Engineers
Auckland, Wellington, Christchurch, Hamilton, New Plymouth, Tauranga, Melbourne, Sydney, Singapore, Port Moresby, Jakarta, Kuala Lumpur.

Original Scale (A1) 1:100/5000
Reduced Scale (A3) 1:200/10000

Design Drawn BIL 11.5.00
Dsg Check*
Dwg Check*
Date

Approved For Construction*
Date

* Refer to Revision 1 for Original Signatures

Client:
TRANSIT NEW ZEALAND
ARARAU AOTFAROA

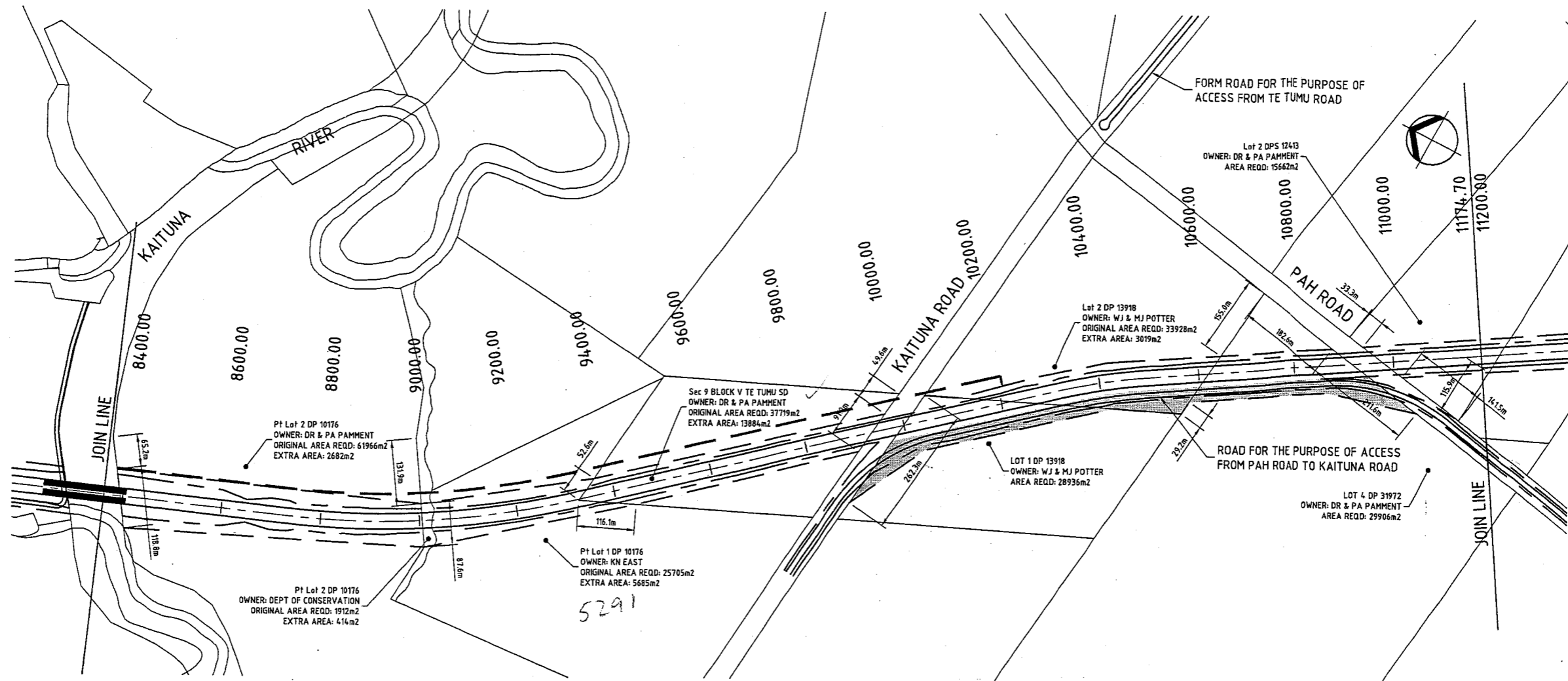
Project:
TAURANGA EASTERN ARTERIAL

Title:
ATTENUATION BARRIER KAITUNA RESERVE

Discipline: **CIVIL**

Drawing No. **9301240/P043** Rev. **B**

Beca Carter Hollings & Ferner Ltd



PLAN
SCALE 1:5000

LEGEND

- EDGE OF SEAL
- - - - - EXTENT OF BATTERS
- - - - - DESIGNATION REQUIREMENT
- - - - - ALTERATION TO DESIGNATION REQUIREMENT
- - - - - CENTRELINE OF ALIGNMENT
- LEGAL BOUNDARY
- [Hatched Box] AREA OF LOCAL ROAD TO BE DESIGNATED FOR THE PURPOSE OF ACCESS

NOTES:-

1. CROWN COPYRIGHT RESERVED. LEGAL BOUNDARY INFORMATION REPRINTED WITH PERMISSION OF TAURANGA DISTRICT COUNCIL LICENCE No. HN/033523 & WESTERN BAY OF PLENTY DISTRICT COUNCIL LICENCE No. HN35220003.
2. DTM DATA AND AERIAL PHOTOGRAPHY SUPPLIED BY NEW ZEALAND AERIAL MAPPING LTD.
3. FLOOD LEVEL DATA SUPPLIED BY ENVIRONMENT B.O.P.

Original size A1

Originating Office: TAURANGA

| | | | |
|-----|-----------------|--------|----------|
| B | TITLE CHANGE | B. v.B | 19.10.01 |
| A | FOR INFORMATION | BL | 19.10.01 |
| No. | Revision | By | Chk |
| | | Appd | Date |

Drawing Originator:
Beca Carter Hollings & Ferner Ltd
 Consulting Engineers
 Auckland, Wellington, Christchurch, Hamilton, New Plymouth, Tauranga, Melbourne, Sydney, Singapore, Port Moresby, Jakarta, Kuala Lumpur.

Original Scale (A1) 1:5000
 Reduced Scale (A3) 1:10000
 Design Drawn: BIL 19.10.01
 Dsg Check*
 Dwg Check*
 Approved For Construction*
 Date

Client: **TRANSIT NEW ZEALAND**
 ARARAU AOTEAROA

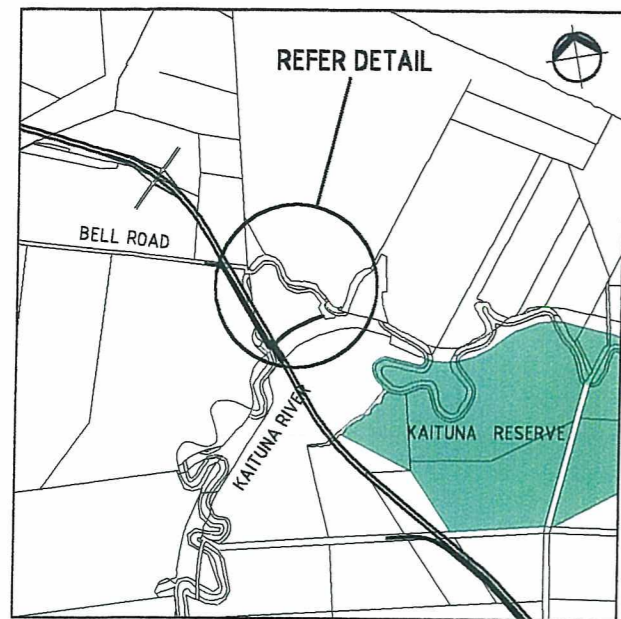
Project: **TAURANGA EASTERN ARTERIAL**

| | |
|---|--------------------------|
| Title: LAND REQUIREMENT FOR 3.1m ATTENUATION BARRIER | Discipline: CIVIL |
| Drawing No. 9301240/P044 | Rev. B |

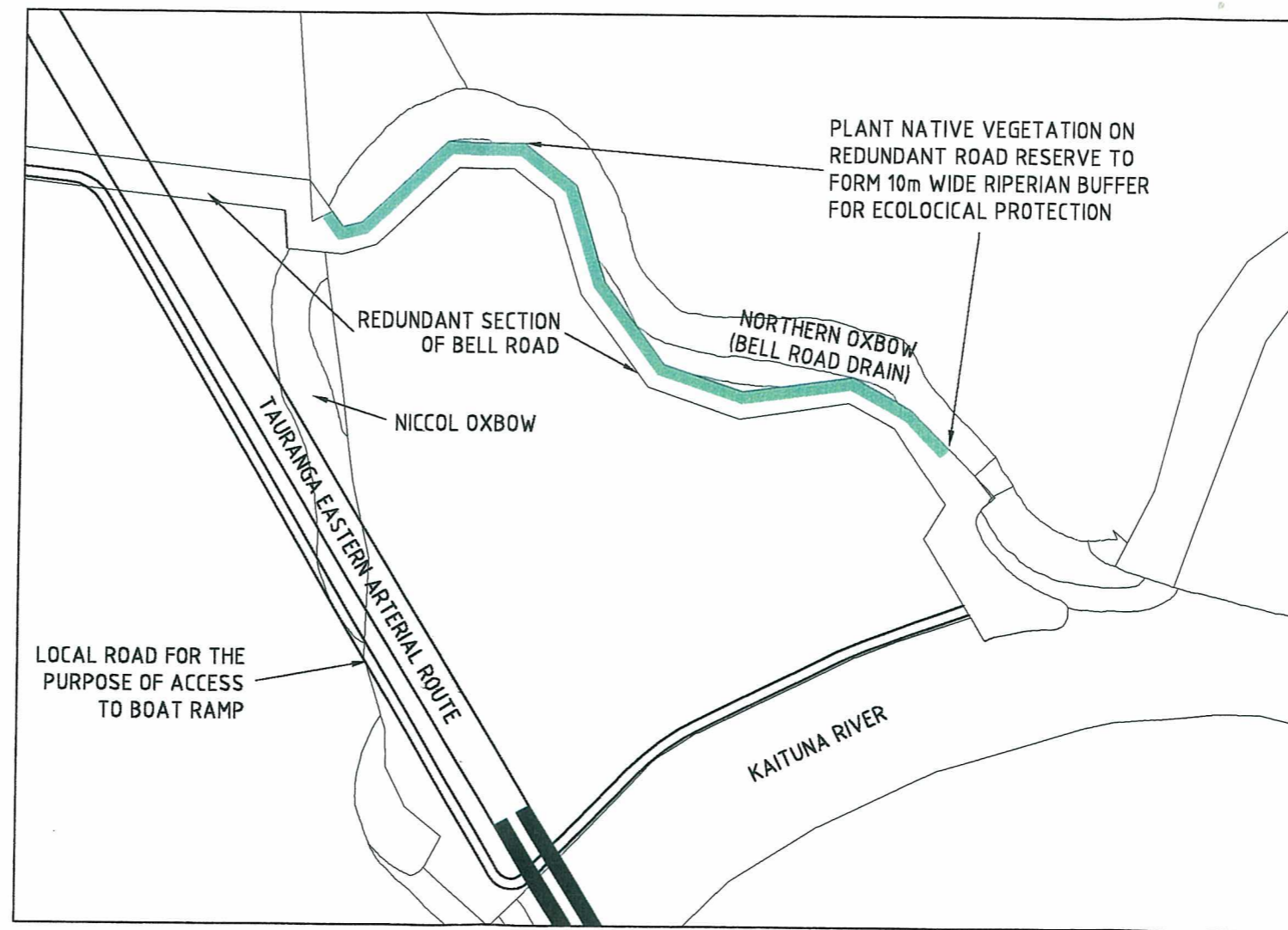
DO NOT SCALE

IF IN DOUBT ASK

AutoCAD Rel. 2000



LOCALITY PLAN
SCALE 1:25000



SITE DETAIL
SCALE 1:2500

Original size A1

Originating Office: TAURANGA

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| No. | Revision | By | Chk | App'd | Date |
|-----|-----------------|----|-----|-------|------|
| A | FOR INFORMATION | | | | |

Drawing Originator:
Beca Carter Hollins & Ferner Ltd
 Consulting Engineers
 Auckland, Wellington, Christchurch, Hamilton, New Plymouth, Tauranga, Melbourne, Sydney, Singapore, Port Moresby, Jakarta, Kuala Lumpur.

| | | |
|---------------------|------------|----------------------------|
| Original Scale (A1) | Design | Approved For Construction* |
| 1:25000 | Drawn | |
| Reduced Scale (A3) | Dwg Check* | Date |
| 1:50000 | Dwg Check* | |

* Refer to Revision 1 for Original Signatures

Client: **TRANSIT NEW ZEALAND**
 AHA Rau AOTEAROA

Project: **TAURANGA EASTERN ARTERIAL**

Title: **BELL ROAD DRAIN RIPERIAN BUFFER**

Discipline: **CIVIL**

Drawing No. **9301240/P048** Rev. **A**

DO NOT SCALE

IF IN DOUBT ASK.

Beca Carter Hollins & Ferner Ltd

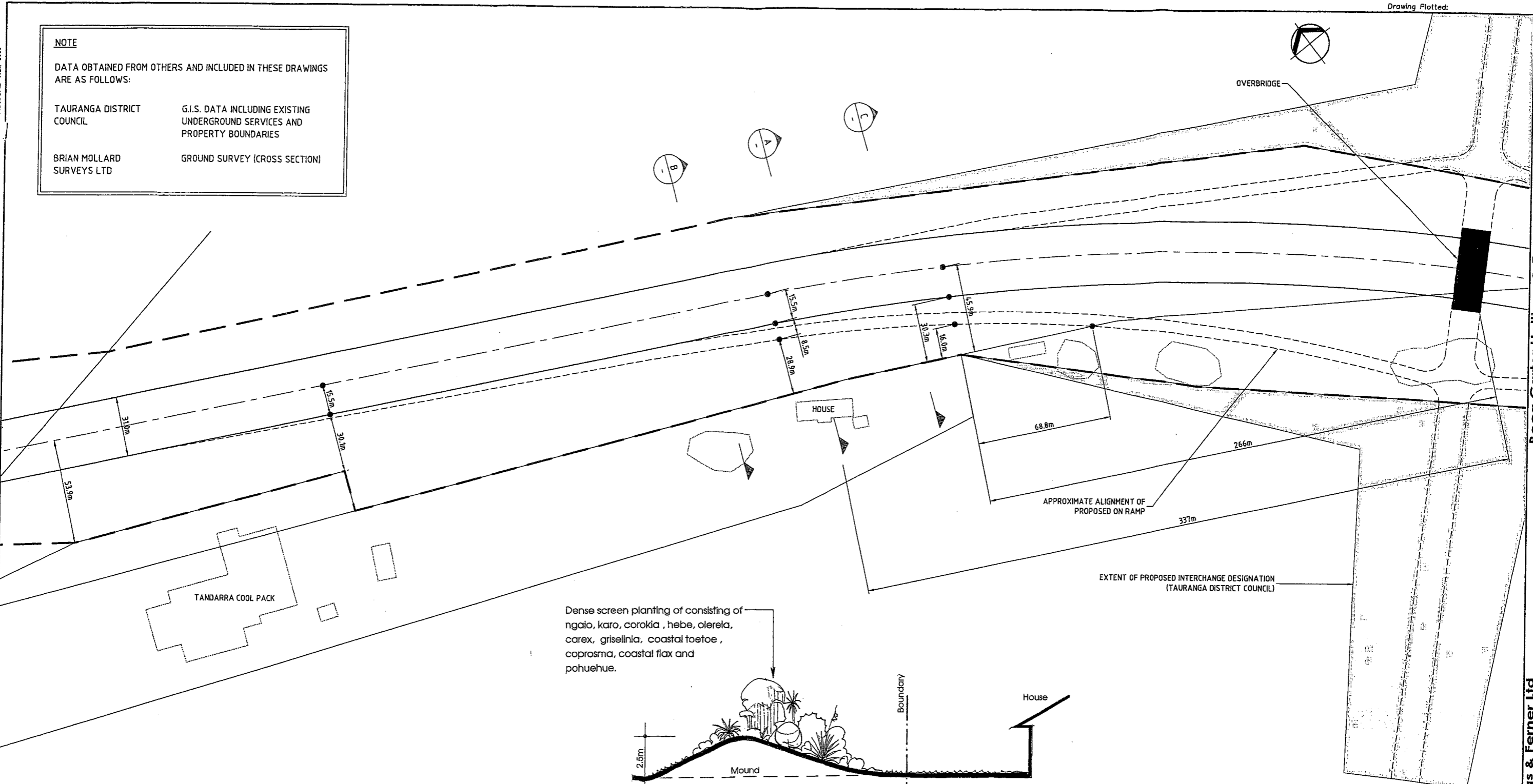
Document No. P19319301240/CAD/14/048

AutoCAD Rel. 2000

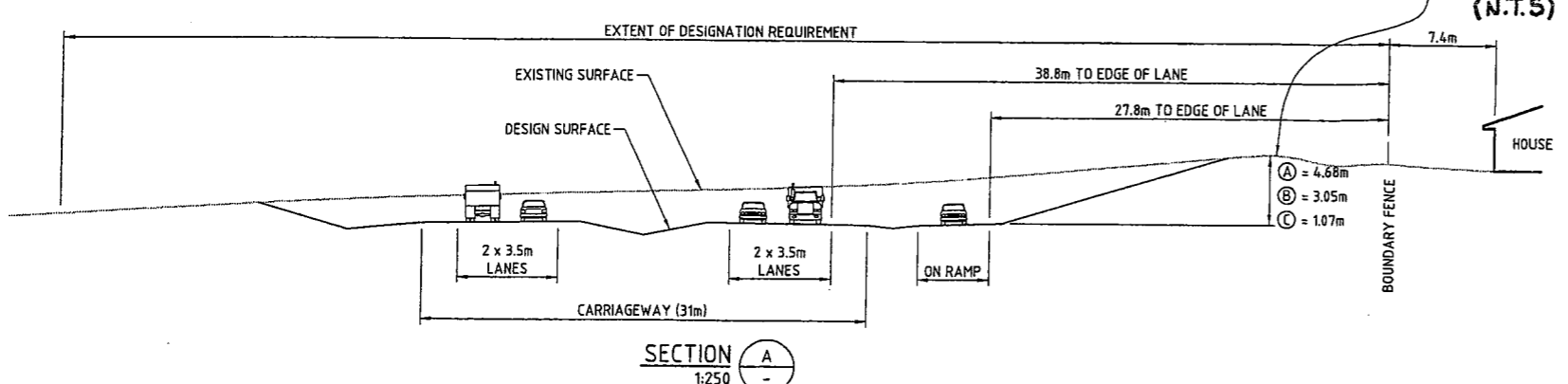
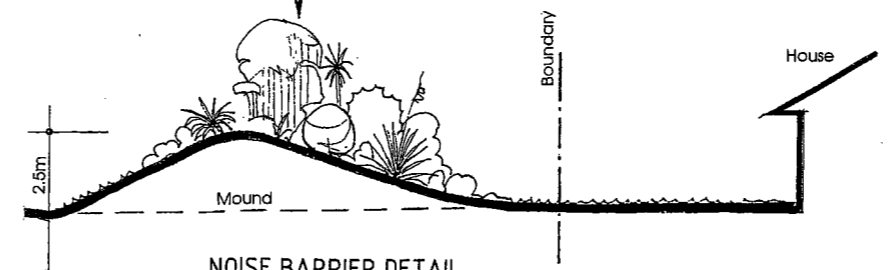
NOTE
 DATA OBTAINED FROM OTHERS AND INCLUDED IN THESE DRAWINGS ARE AS FOLLOWS:

TAURANGA DISTRICT COUNCIL G.I.S. DATA INCLUDING EXISTING UNDERGROUND SERVICES AND PROPERTY BOUNDARIES

BRIAN MOLLARD SURVEYS LTD GROUND SURVEY (CROSS SECTION)



Dense screen planting of consisting of ngaio, karo, corokia, hebe, olerela, carex, griselinia, coastal toetoe, coprosma, coastal flax and pohuehue.



- LEGEND**
- EDGE OF SEAL
 - - - - - TNZ DESIGNATION REQUIREMENT
 - - - - - CENTRELINE OF T.E.A. ALIGNMENT
 - - - - - POSSIBLE TDC OFF-RAMPS
 - PEGS POSITIONED BY BCHF (APPROX)
 - TDC DESIGNATION AREA

Original size A1
Originating Office: TAURANGA

Beca Carter Hollings & Ferner Ltd

| | | | | | | | | | |
|--|--|---|---|--|------------------------------------|------------------------------------|---|---|--|
| FOR INFORMATION No. Revision By Chk Appd Date | | Drawing Originator: Beca Carter Hollings & Ferner Ltd Consulting Engineers Auckland, Wellington, Christchurch, Hamilton, New Plymouth, Tauranga, Melbourne, Sydney, Singapore, Port Moresby, Jakarta, Kuala Lumpur. | Original Scale (A1) 1:1000/250 Reduced Scale (A3) 1:2000/500 | Design Drawn BIL 29.8.01 Dwg Check* Dwg Check* | Approved For Construction* Date | Client: TRANSIT NEW ZEALAND | Project: TAURANGA EASTERN ARTERIAL | Title: NOISE & LANDSCAPING MITIGATION CRESSY PROPERTY, BELL RD | Discipline: CIVIL Drawing No. 9301240/P049 Rev. A |
|--|--|---|---|--|------------------------------------|------------------------------------|---|---|--|

DO NOT SCALE

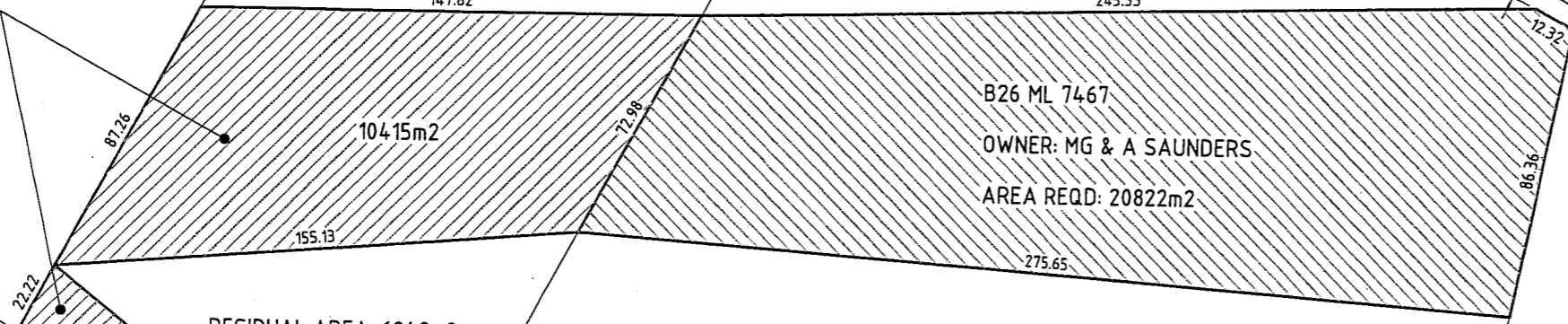
IF IN DOUBT ASK



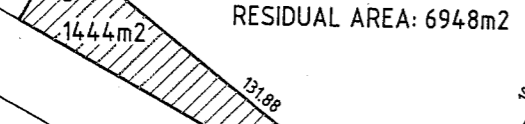
Lot 1 DPS 36594
OWNER: TRANSIT NEW ZEALAND
TOTAL AREA REQD: 11859m2

RESIDUAL AREA: 21297m2

RESIDUAL AREA: 14335m2



B26 ML 7467
OWNER: MG & A SAUNDERS
AREA REQD: 20822m2



RESIDUAL AREA: 694.8m2

RESIDUAL AREA: 48811m2

TE TUMU ROAD

MAKETU ROAD

EC.M.T. RAILWAY

STATE HIGHWAY 2

NOTE:
1. ALL AREAS AND MEASUREMENTS SUBJECT TO SURVEY.

Original size A1
Originating Office: TAURANGA

| | | | | | |
|-----|---|-----|-----|---------|------|
| C | PROVISION OF ACCESS TO SAUNDERS PROPERTY FROM MAKETU RD | BIL | DRY | 31.7.01 | |
| B | OWNERSHIP OF Lot 1 DPS 36594 UPDATED | BIL | DRY | 3.11.00 | |
| A | FOR INFORMATION | BIL | DRY | 3.11.00 | |
| No. | Revision | By | Chk | Appd | Date |

Drawing Originator:
Beca Carter Hollings & Ferner Ltd
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| | | | | |
|---------------------|------------|-----|---------|----------------------------|
| Original Scale (A1) | Design | BIL | 3.11.00 | Approved For Construction* |
| 1:1000 | Drawn | BIL | 3.11.00 | |
| Reduced Scale (A3) | Dwg Check* | | | |
| 1:2000 | Dwg Check* | | | Date |

* Refer to Revision 1 for Original Signatures

Client: **TRANSIT NEW ZEALAND**
 ARARAU ACTERAOA

Project: **TAURANGA EASTERN ARTERIAL**

| | |
|--|--------------------------|
| Title: LAND REQUIREMENT SAUNDERS AND TNZ (EX SPRATT) PROPERTIES | Discipline: CIVIL |
| Drawing No. 9301240/SK10 | Rev. C |

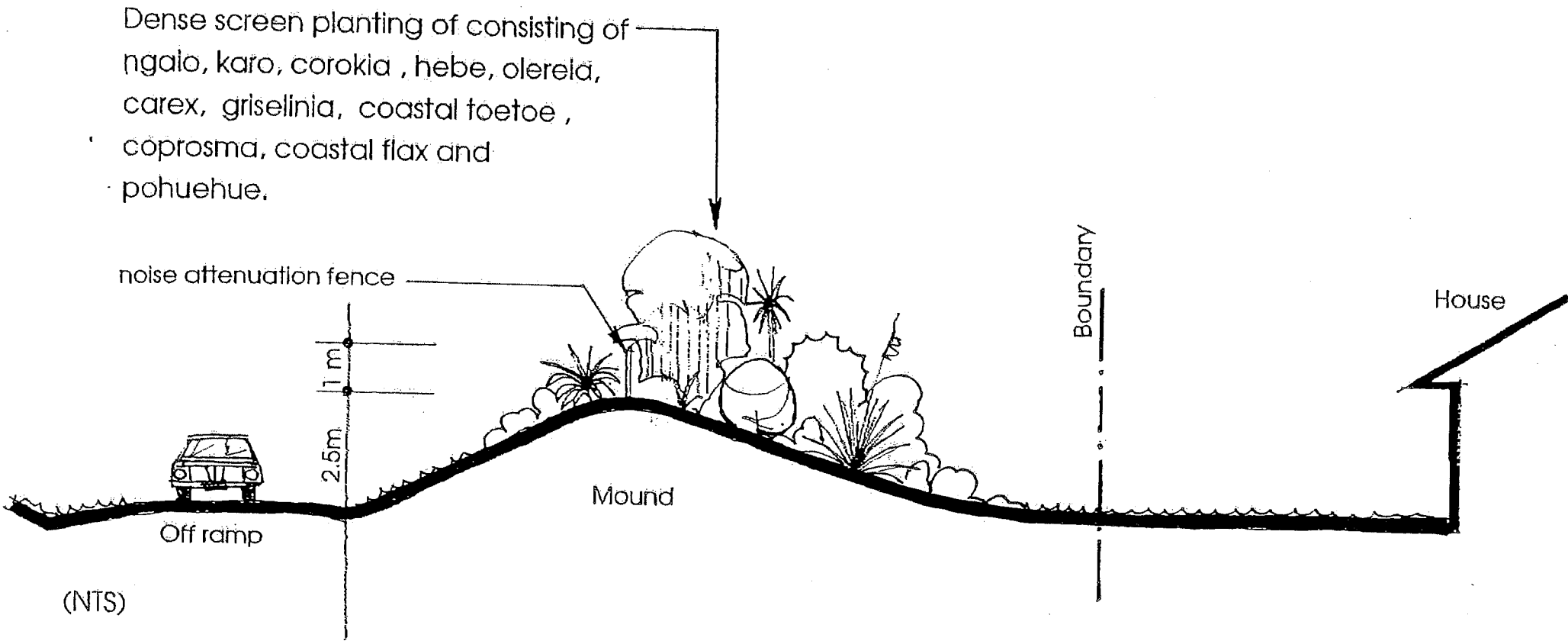
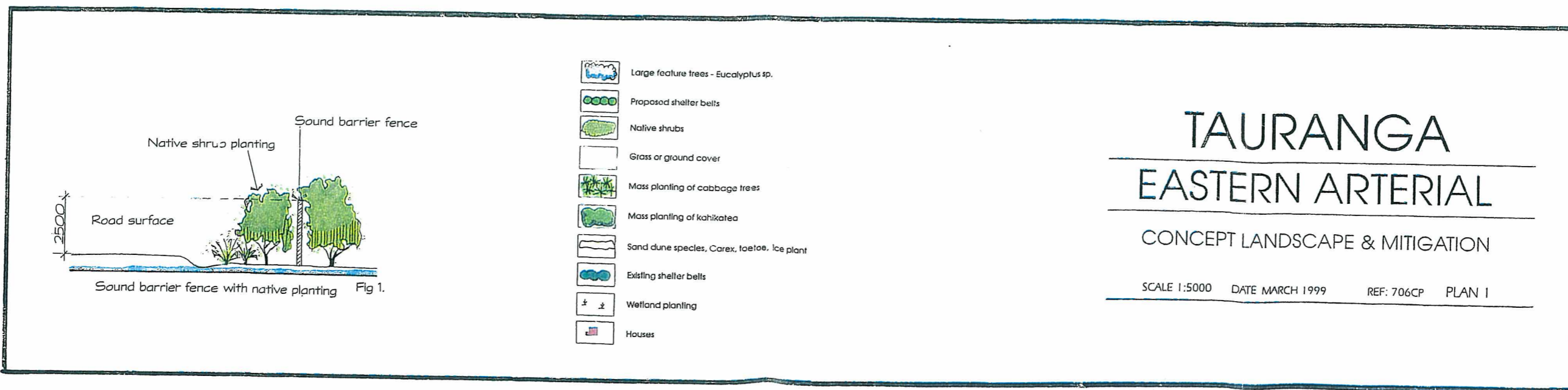
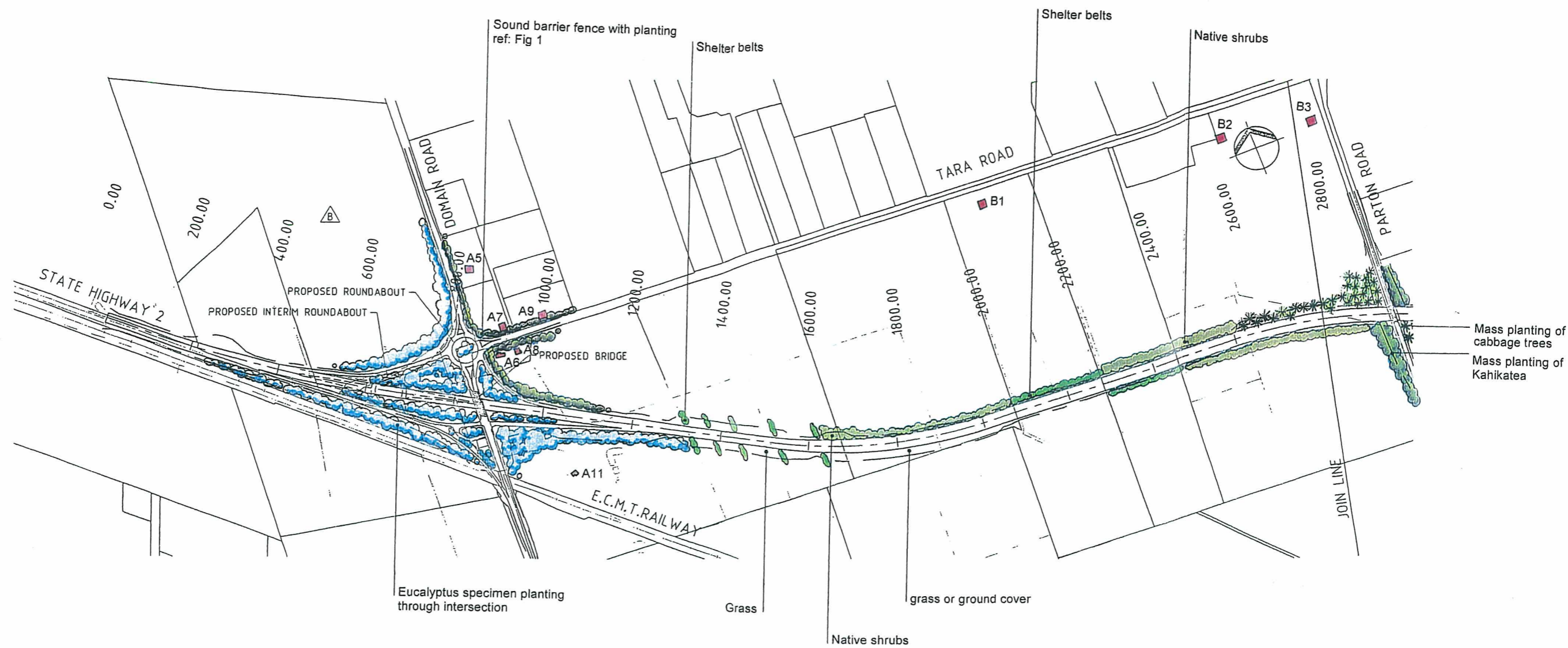


FIGURE A. LANDSCAPE MITIGATION
Stella Cressey - 339 Bell Road

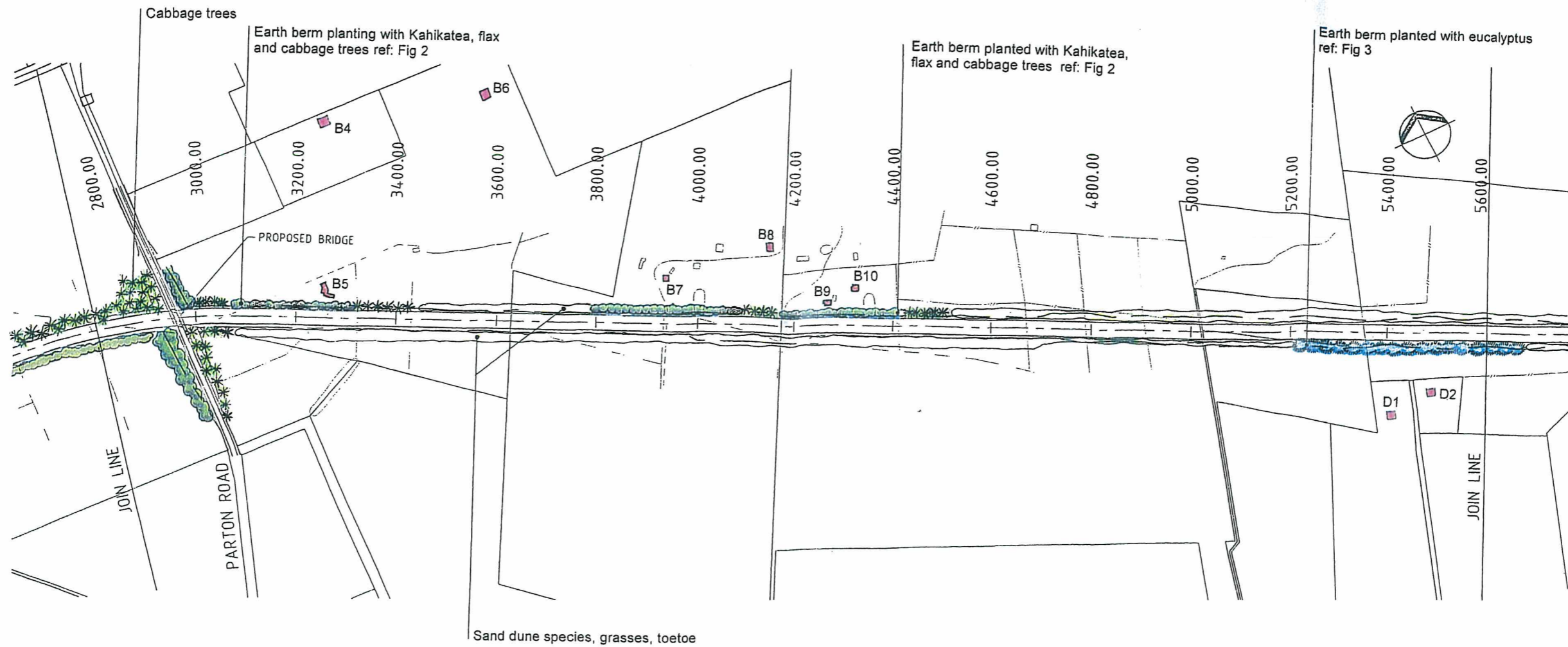


TAURANGA EASTERN ARTERIAL

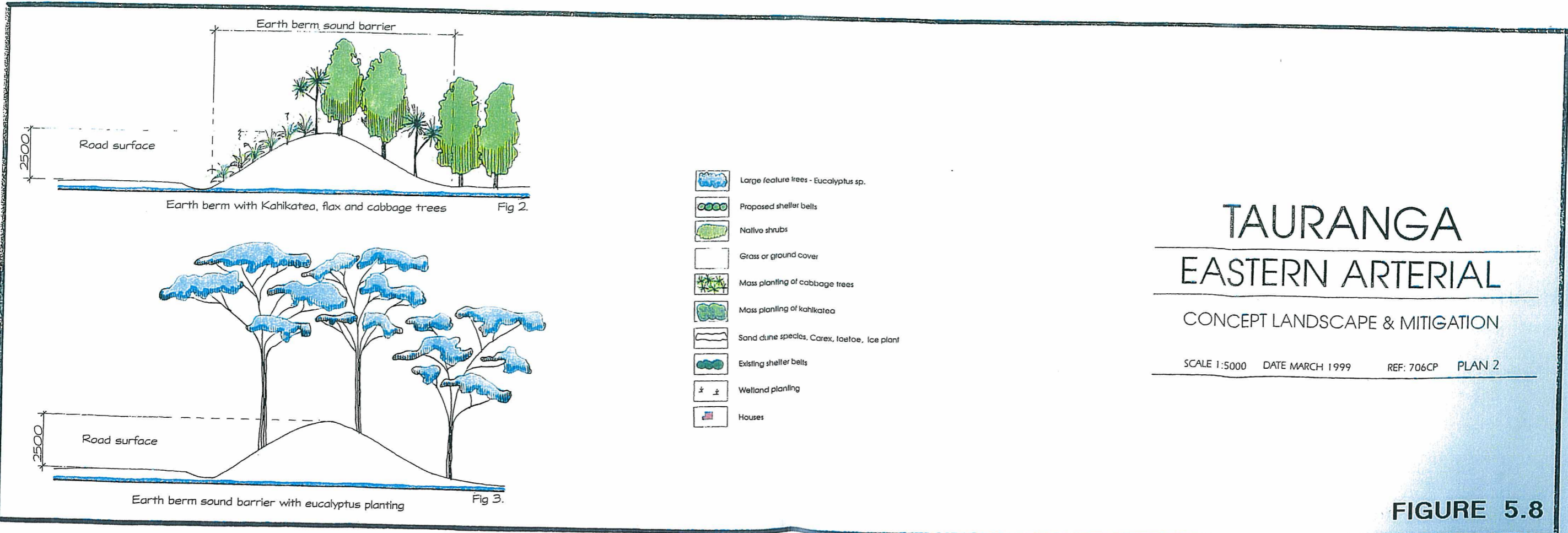
CONCEPT LANDSCAPE & MITIGATION

SCALE 1:5000 DATE MARCH 1999 REF: 706CP PLAN 1

FIGURE 5.7



Sand dune species, grasses, toetoe



TAURANGA EASTERN ARTERIAL

CONCEPT LANDSCAPE & MITIGATION

SCALE 1:5000 DATE MARCH 1999 REF: 706CP PLAN 2

FIGURE 5.8

APPENDIX C

As Existing



With the proposed Eastern Arterial



Viewpoint 3
Boat ramp on Kaituna River looking west

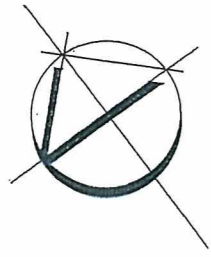


Fig 1. Earth berm with Kahikatea, flax and cabbage trees

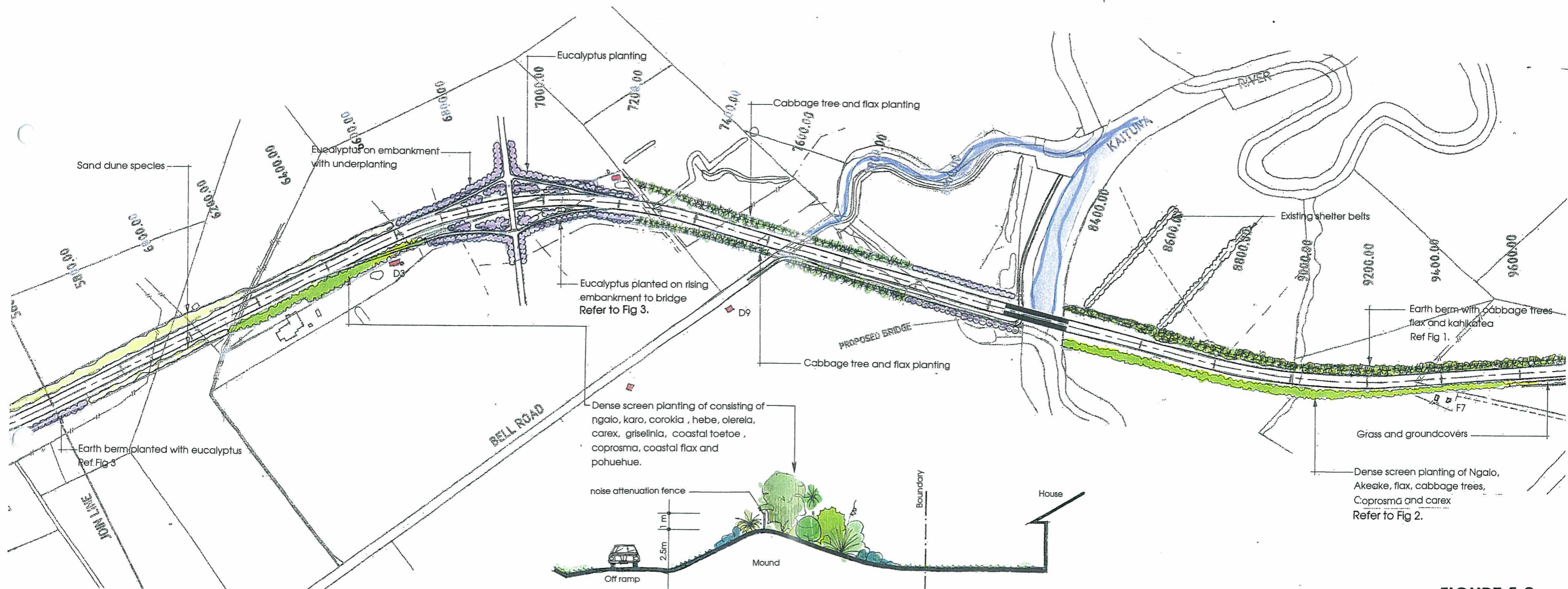
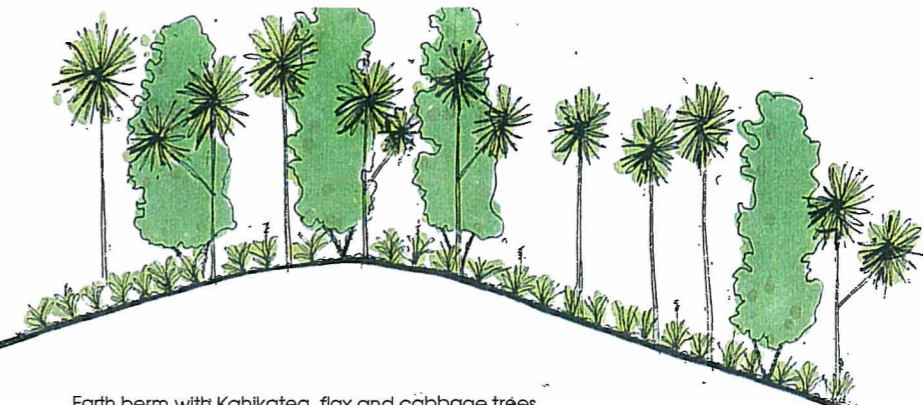


Fig 2. (NTS)

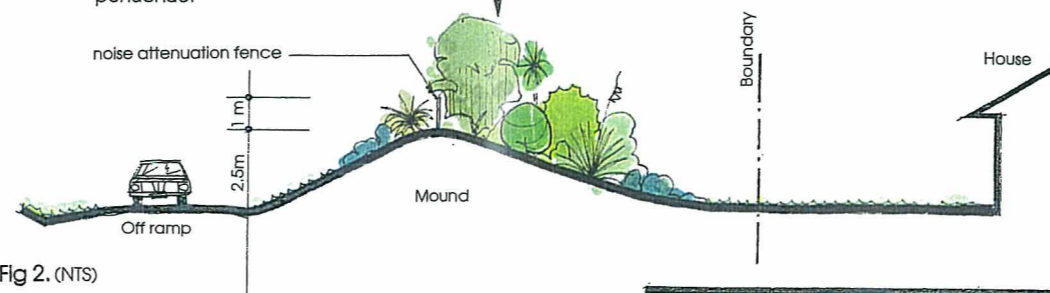


FIGURE 5.9

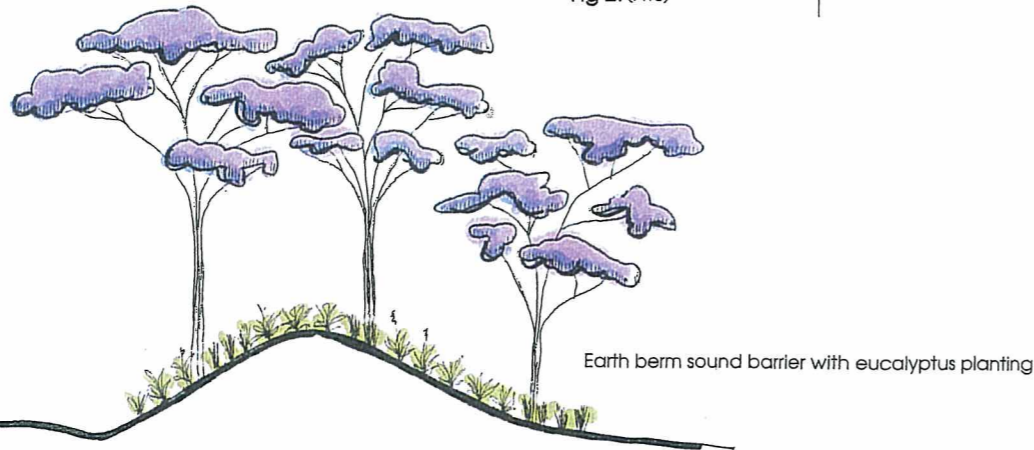


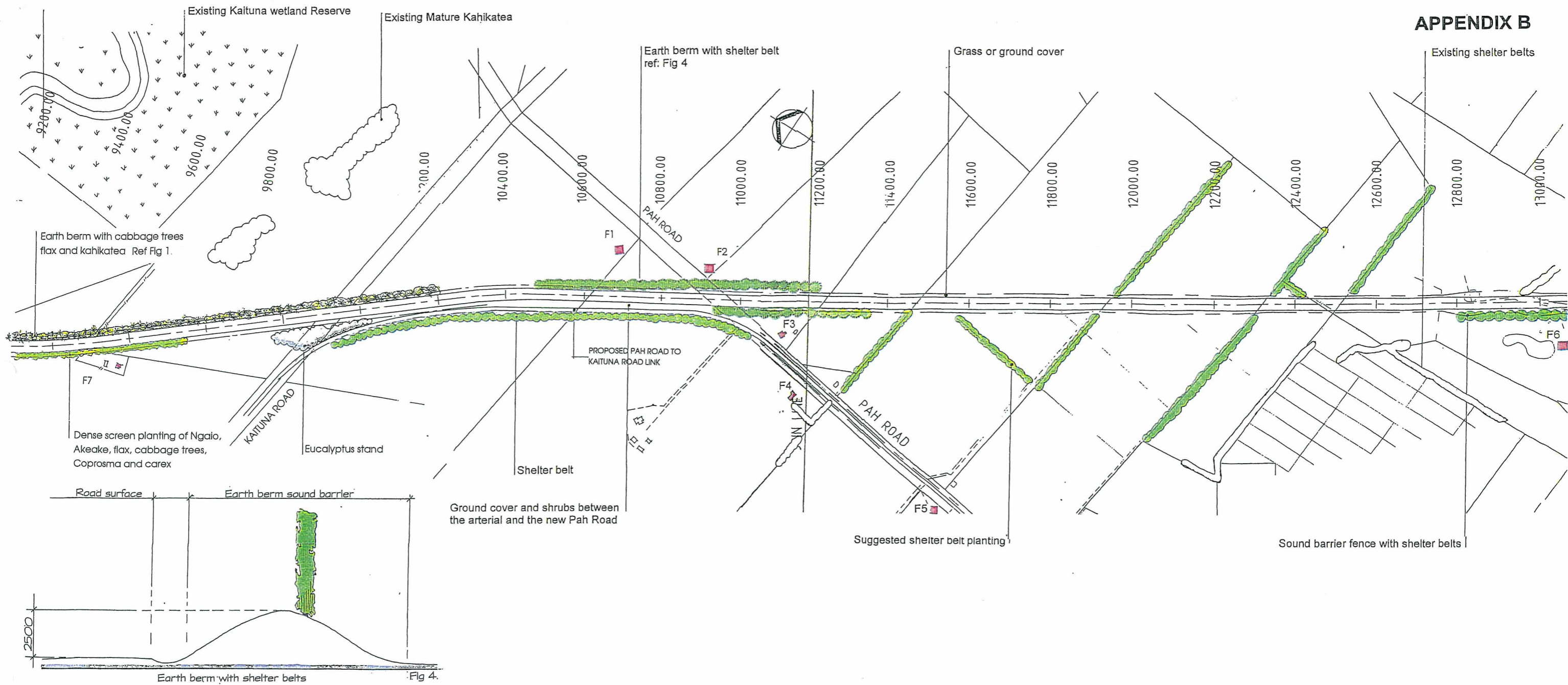
Fig 3.

| | |
|--|---|
| | Cabbage tree, flax and kahikatea planting |
| | Sand dune species |
| | Eucalyptus planting |
| | Houses |
| | Cabbage tree and flax planting |
| | Existing shelterbelts |
| | Screen planting |
| | Grass and groundcovers |

TAURANGA EASTERN ARTERIAL

CONCEPT AND LANDSCAPE MITIGATION

AMENDED
SCALE 1:5000 DATE OCTOBER 2001 REF: 706CP PLAN 3



| | |
|--|---|
| | Large feature trees - Eucalyptus sp. |
| | Proposed shelter belts |
| | Native shrubs |
| | Grass or ground cover |
| | Mass planting of cabbage trees |
| | Mass planting of kahikatea |
| | Sand dune species, Carex, toetoe, ice plant |
| | Existing shelter belts |
| | Wetland planting |
| | Houses |
| | Screen planting (Ref Fig 2, Plan 3) |

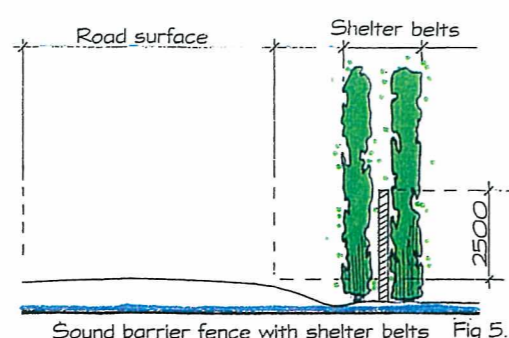
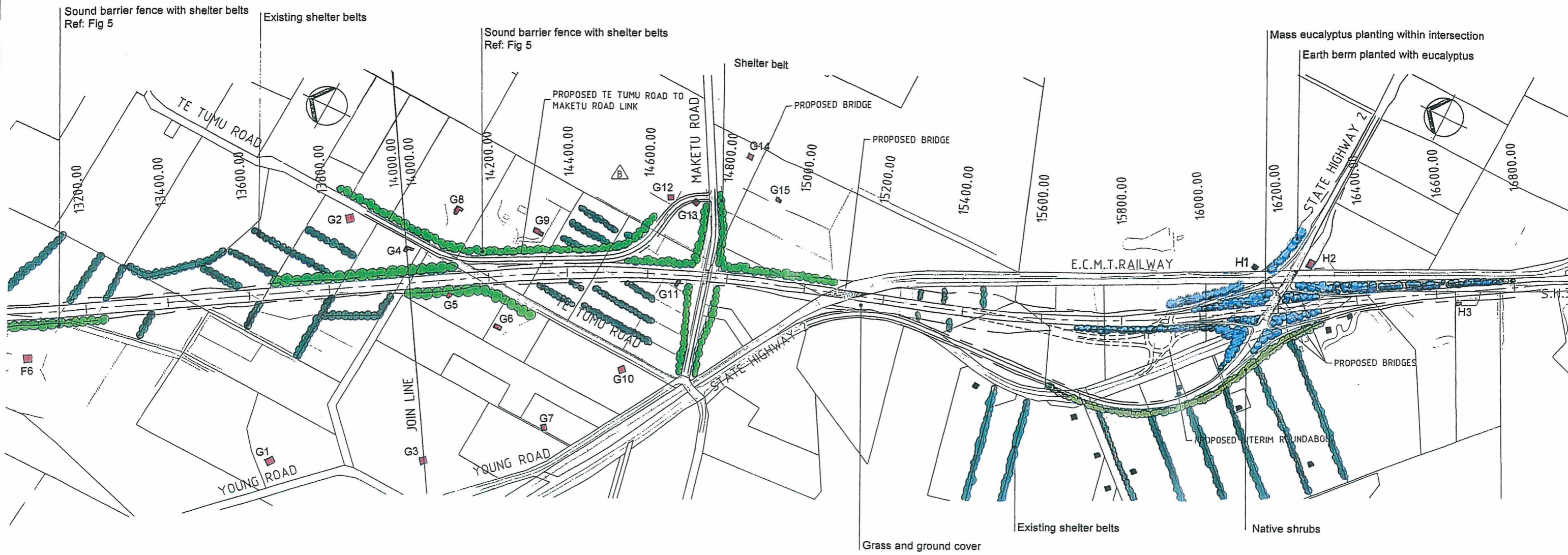
TAURANGA EASTERN ARTERIAL

CONCEPT LANDSCAPE & MITIGATION











AMENDED

SCALE 1:5000 DATE OCTOBER 2001 REF: 706CP PLAN 4

FIGURE 5.10



Sound barrier fence with shelter belts Fig 5.

-  Large feature trees - Eucalyptus sp.
-  Proposed shelter belts
-  Native shrubs
-  Grass or ground cover
-  Mass planting of cabbage trees
-  Mass planting of kahikatea
-  Sand dune species, Carex, toetoe, ice plant
-  Existing shelter belts
-  Wetland planting
-  Houses

TAURANGA EASTERN ARTERIAL

CONCEPT LANDSCAPE & MITIGATION

SCALE 1:5000 DATE MARCH 1999 REF: 706CP PLAN 5

FIGURE 5.11

| | |
|---------------|--|
| DATE SENT | |
| BECA TOA | |
| 27 JAN 2009 | |
| TIME RECEIVED | |
| SEE | |



New Zealand Transport Agency
 c/o Beca
 PO Box 903
 TAURANGA 3140

Attention: Sarah Fitzgerald
 Your Ref: 3932036

**RESOURCE MANAGEMENT ACT 1991
 ALTERATION OF DESIGNATION – RC14341**

Tauranga City Council resolves:

That pursuant to Section 181 of the Resource Management Act 1991, the New Zealand Transport Agency notice of requirement and plans submitted by Beca, referenced as 3932036- G045 to G048 Rev C and, 3932036-G040 Rev E dated 29.04.08, 27.05.08, 06.05.08, 29.04.08 and 22.12.08 respectively for the alteration of Operative Tauranga District Plan designation TR16 regarding the Proposed Road for the Eastern Arterial Route near the Tara Road/ Domain Road intersection is accepted.

The reasons for the decision are as per the recommendation:

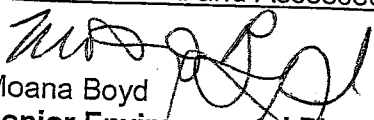
The alteration of designation will have a no more than minor change to effects on the environment associated with the use of the land.

Written notice of the proposed alteration has been given to every owner/ occupier of the land directly affected and those owners/ occupiers have provided written agreement to the alteration.

The alteration will enable the New Zealand Transport Agency to provide for a revised design of the Eastern Arterial designation to enable the construction of a roundabout on suitable land with additional access across Rural zoned land near the Tara Road/ Domain Road intersection (in place of a Give Way controlled intersection). The primary purpose of the designation is still able to be achieved.

It is considered that the alteration of designation is not contrary to the purpose and principles of the RMA and, there are no principle issues in contention.

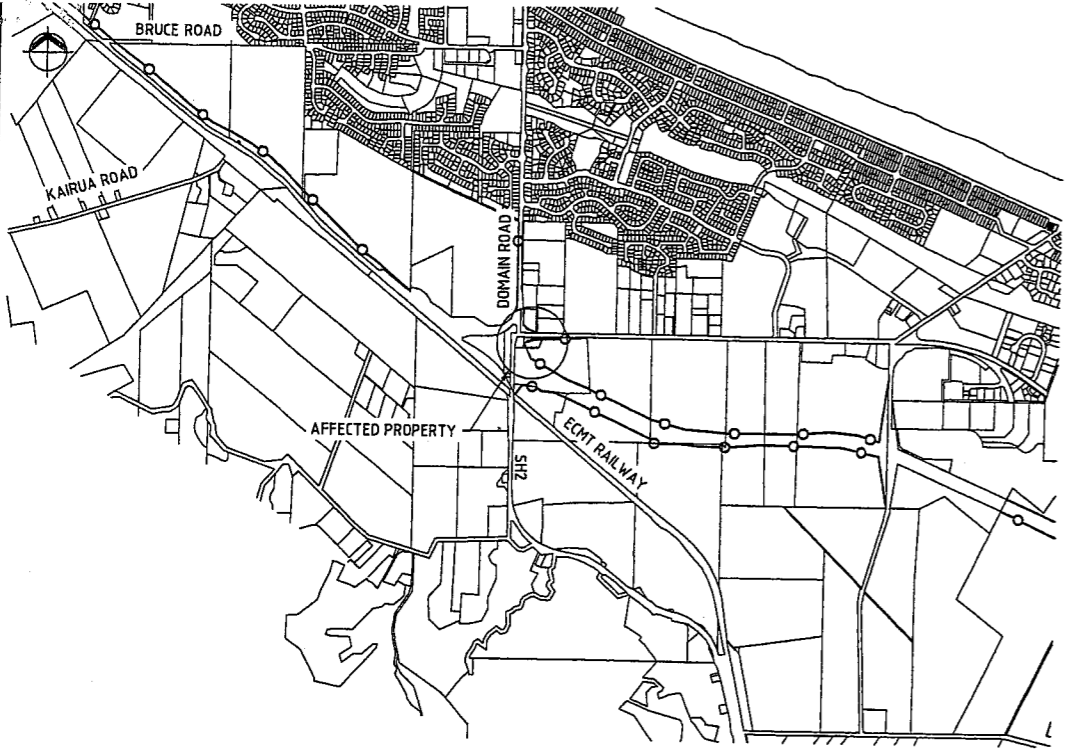
Recommended and Assessed by:


 Moana Boyd
 Senior Environmental Planner

Delegated Authorisation by:


 Rebecca Perrett
 Principal Planner

Date: 24th December 2008

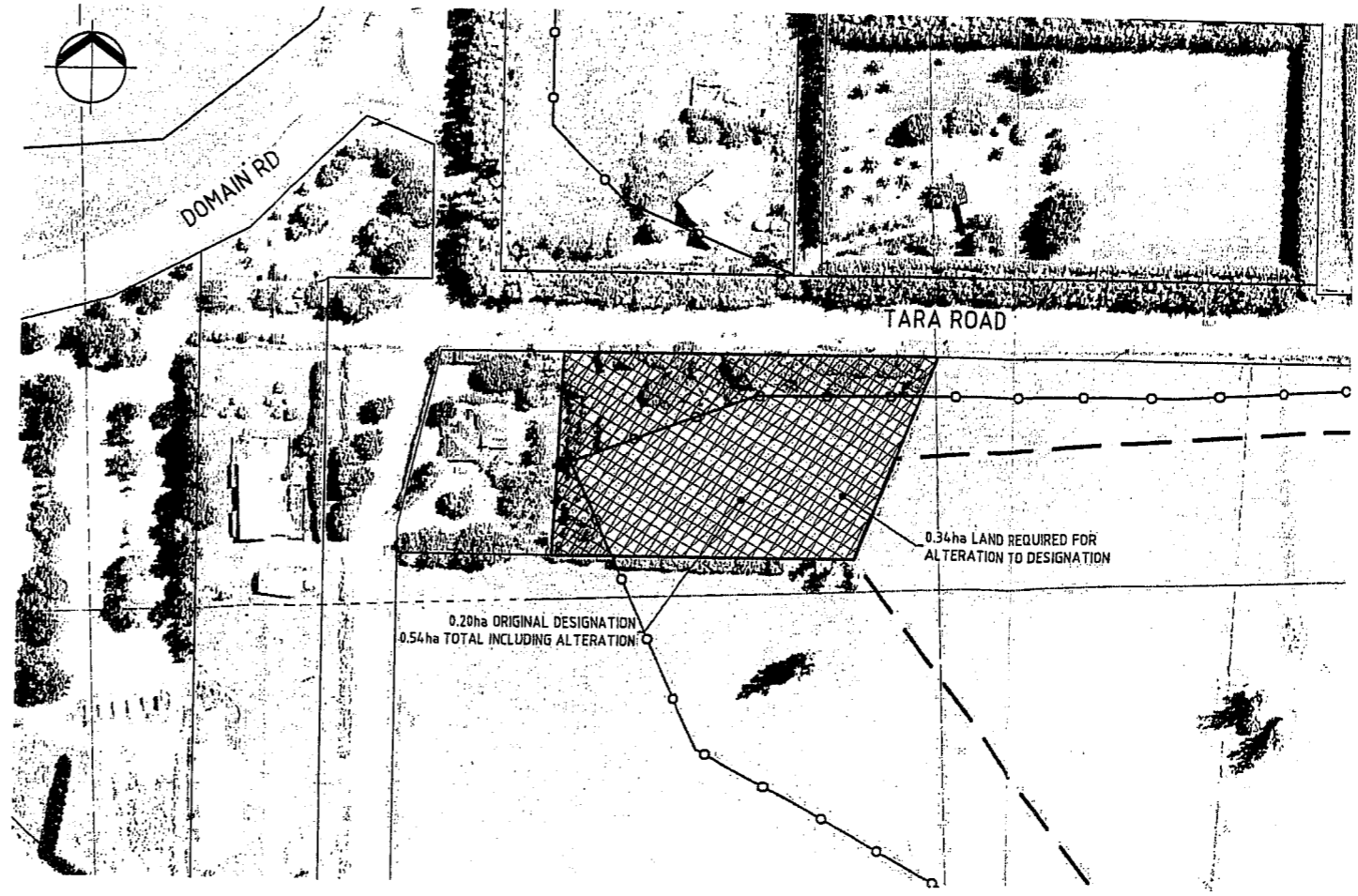


LOCALITY DIAGRAM
SCALE 1:20000

NOTE
LAND REQUIREMENTS ARE APPROXIMATE ONLY AND ARE SUBJECT TO DETAILED DESIGN AND FINAL LEGALISATION SURVEY

| LEGEND | |
|--------|---|
| | DESIGNATION BOUNDARY |
| | NEW DESIGNATION BOUNDARY |
| | AFFECTED PROPERTY |
| | LAND REQUIRED FOR MOTORWAY |
| | LAND ALREADY ACQUIRED |
| | LAND REQUIRED FOR LOCAL ROAD |
| | LAND REQUIRED FOR ALTERATION TO DESIGNATION |

APPROVED
 24 DEC 2008
PLAN



PROPOSED BOUNDARY DETAILS
SCALE 1:1000

| No. | Revision | By | Chk | Appd | Date |
|-----|--|-----|-----|------|----------|
| C | LAND AREA UPDATED | AWS | TVH | TVH | 29.04.08 |
| B | NEW ALTERATION TO DESIGNATION BOUNDARY UPDATED | AWS | TVH | TVH | 11.03.08 |
| A | FOR INFORMATION | MD | BIL | TVH | 20.09.07 |

| | | | | | |
|--|--|---------------------|---------------|------|----------------------------|
| Drawing Originator: | | Original Scale (A1) | Design | N/A | Approved For Construction* |
| | | AS SHOWN | Drawn | MDMD | 21.09.07 |
| | | Reduced Scale (A3) | Desg Verifier | | |
| | | HALF SHOWN | Dwg Check | | Date |
| * Refer to Revision 1 for Original Signature | | | | | |

Client: **TRANSIT NEW ZEALAND**
 Project: **TAURANGA EASTERN MOTORWAY**

Title: **LAND REQUIREMENT PLAN LOT 1 DP 11789 TRANSIT NZ (EX FOSTER)**

FOR INFORMATION NOT FOR CONSTRUCTION

| | | | |
|-------------|--------------|------|---|
| Discipline | CIVIL | Rev. | C |
| Drawing No. | 3932036-G045 | | |

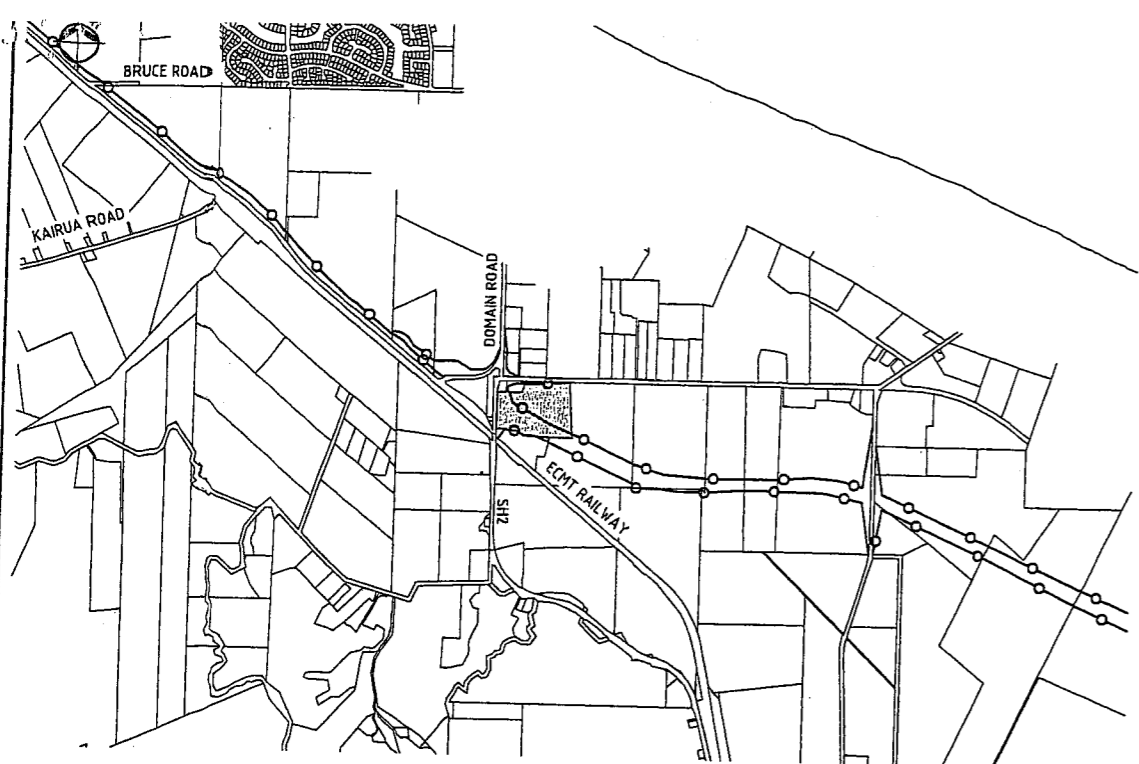
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LOCALITY DIAGRAM
SCALE 1:20000

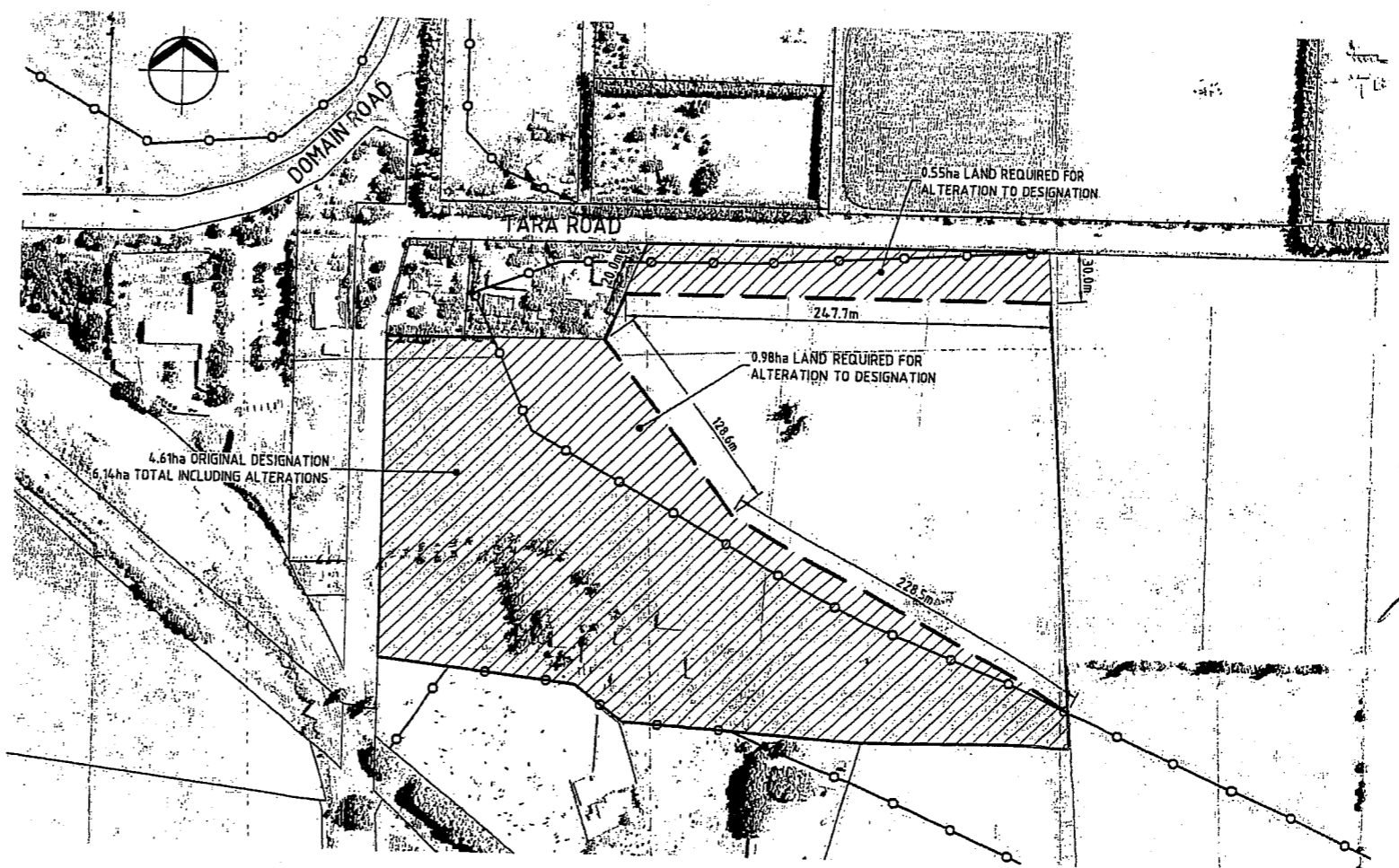
NOTE
LAND REQUIREMENTS ARE APPROXIMATE ONLY AND ARE SUBJECT TO DETAILED DESIGN AND FINAL LEGALISATION SURVEY

LEGEND

- DESIGNATION BOUNDARY
- NEW DESIGNATION BOUNDARY
- AFFECTED PROPERTY
- LAND REQUIRED FOR MOTORWAY
- LAND ALREADY ACQUIRED
- LAND REQUIRED FOR LOCAL ROAD
- LAND REQUIRED FOR ALTERATION TO DESIGNATION

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RC14341
APPROVED
24 DEC 2008
PLAN



PROPOSED BOUNDARY DETAILS
SCALE 1:2000

W. Hurst
D. H.
J. P.

www.beca.com

| No. | Revision | By | Chk | Appd | Date |
|-----|-------------------|-----|-----|------|----------|
| C | LAND AREA UPDATED | AWS | TVH | TVH | 27.05.08 |
| B | LAND AREA UPDATED | AWS | TVH | TVH | 29.04.08 |
| A | FOR INFORMATION | MD | BIL | TVH | 20.09.07 |

Drawing Originator:
BECA Engineers • Planners • Managers

| Original Scale (A1) AS SHOWN | Design | Drawn | MD | 14.09.07 | Approved For Construction* |
|-------------------------------|--------------|-----------|----|----------|----------------------------|
| Reduced Scale (A3) HALF SHOWN | Dwg Verifier | Dwg Check | | | Date |

* Refer to Revision 1 for Original Signature

Client: **TRANSIT NEW ZEALAND**

Project: **TAURANGA EASTERN MOTORWAY**

Title: **LAND REQUIREMENT PLAN LOT 2 DPS 60939 HURST & POTTER**

FOR INFORMATION NOT FOR CONSTRUCTION

Discipline: **CIVIL**

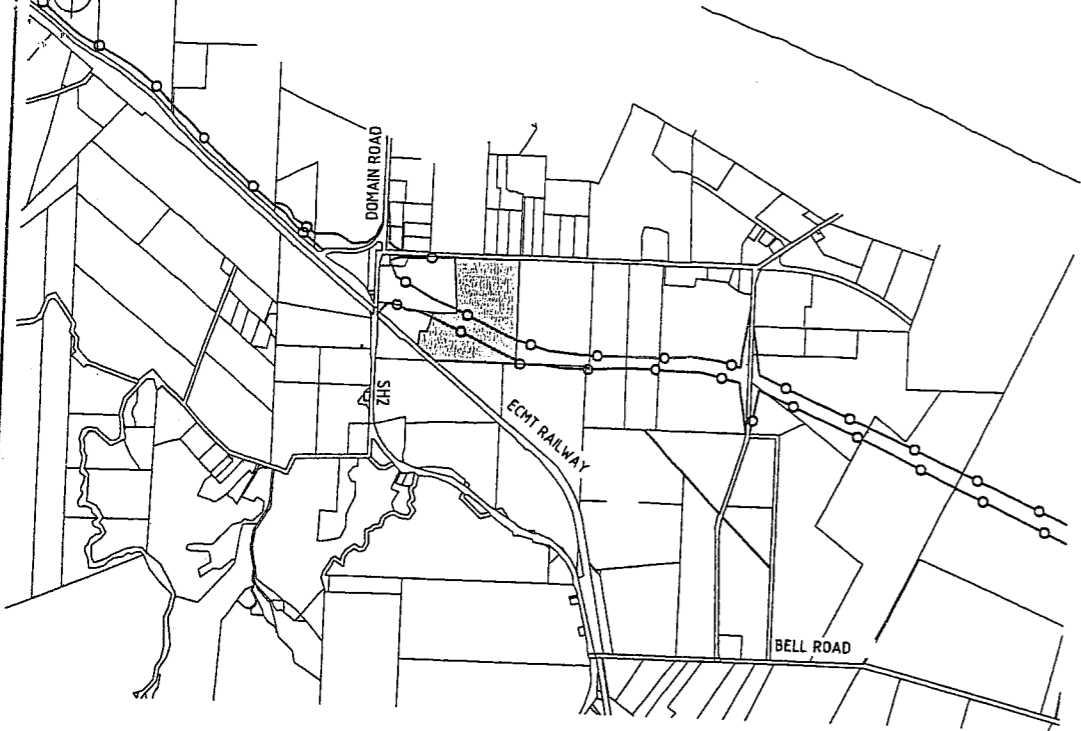
Drawing No. **3932036-G046**

Rev. **C**

DO NOT SCALE

IF IN DOUBT ASK.

Document No. 2036064.dwg



LOCALITY DIAGRAM
SCALE 1:20000

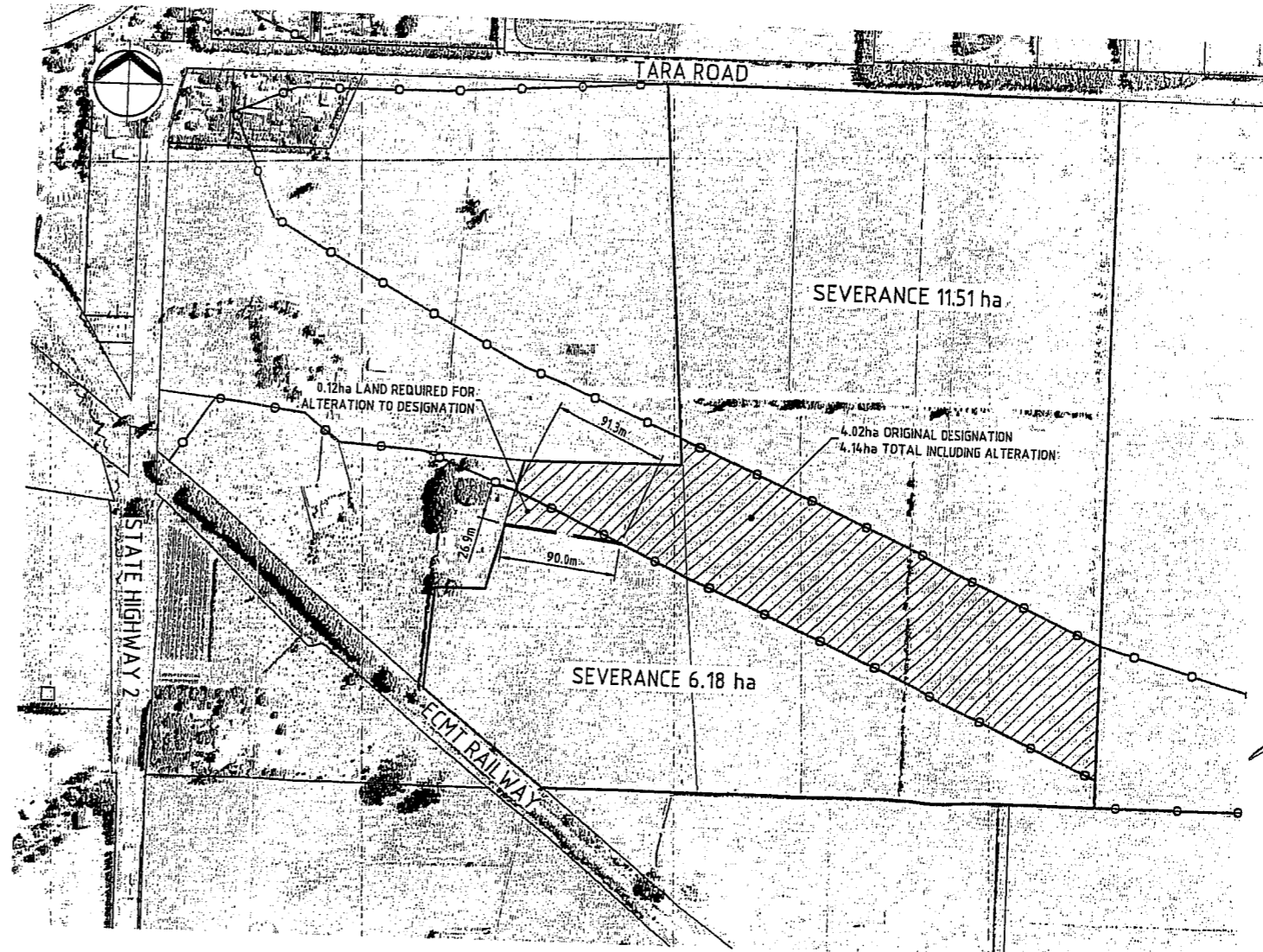
NOTE
LAND REQUIREMENTS ARE APPROXIMATE ONLY AND ARE SUBJECT TO DETAILED DESIGN AND FINAL LEGALISATION SURVEY

LEGEND

- DESIGNATION BOUNDARY
- NEW DESIGNATION BOUNDARY
- AFFECTED PROPERTY
- LAND REQUIRED FOR MOTORWAY
- LAND ALREADY ACQUIRED
- LAND REQUIRED FOR LOCAL ROAD
- LAND REQUIRED FOR ALTERATION TO DESIGNATION

www.beca.com

RC1834
APPROVED
24 DEC 2008
PLAN



PROPOSED BOUNDARY DETAILS
SCALE 1:2500

Handwritten signatures and initials:
M. Hurst
S. Potter
J. Hurst

| | | | | | |
|-----|--|-----|-----|------|----------|
| C | LAND AREA UPDATED | AWS | TVH | TVH | 29.04.08 |
| B | NEW ALTERATION TO DESIGNATION BOUNDARY UPDATED | AWS | TVH | TVH | 20.02.08 |
| A | FOR INFORMATION | MD | BIL | TVH | 20.09.07 |
| No. | Revision | By | Chk | Appd | Date |

Drawing Originator:
BECA Engineers • Planners • Managers

| | | | | | |
|---------------------|--|--------------|----|----------|----------------------------|
| Original Scale (A1) | Design | Drawn | MD | 14.09.07 | Approved For Construction* |
| AS SHOWN | | Dwg Verifier | | | |
| Reduced Scale (A3) | Dwg Check | | | | Date |
| HALF SHOWN | * Refer to Revision 1 for Original Signature | | | | |

Client: **TRANSIT NEW ZEALAND**
WIRARAPA AND PUNAHOU

Project: **TAURANGA EASTERN MOTORWAY**

Title: **LAND REQUIREMENT PLAN**
LOT 3 DPS 60939
HURST & POTTER

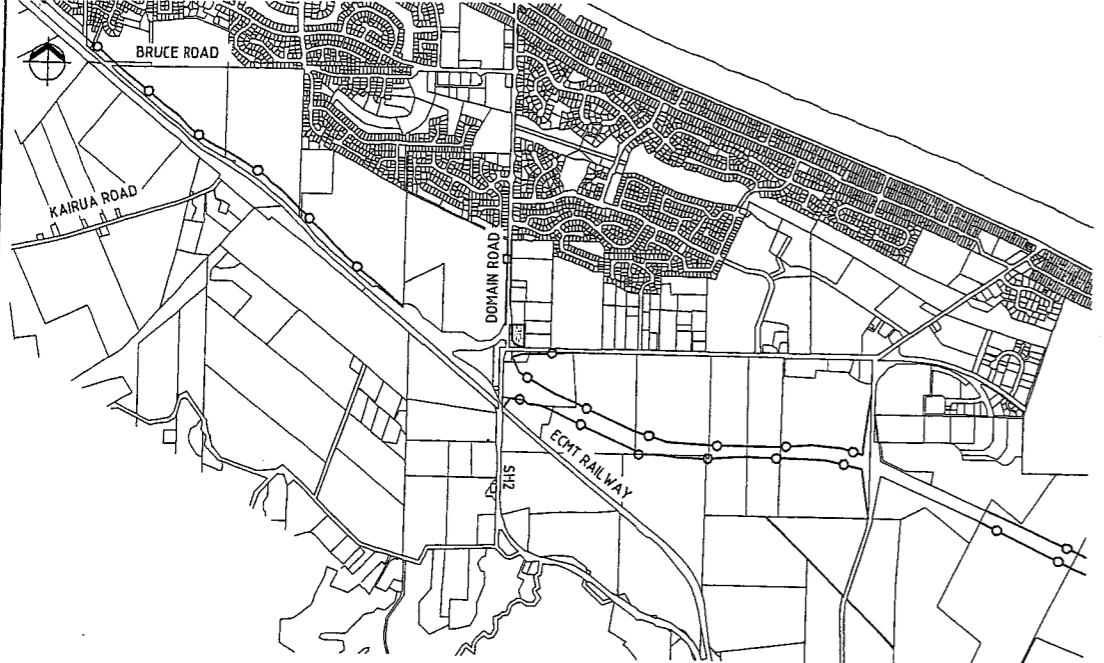
FOR INFORMATION NOT FOR CONSTRUCTION

| | |
|-------------|--------------|
| Discipline | CIVIL |
| Drawing No. | 3932036-G048 |
| Rev. | C |

DO NOT SCALE

Document No. 2036048.dwg

IF IN DOUBT ASK.



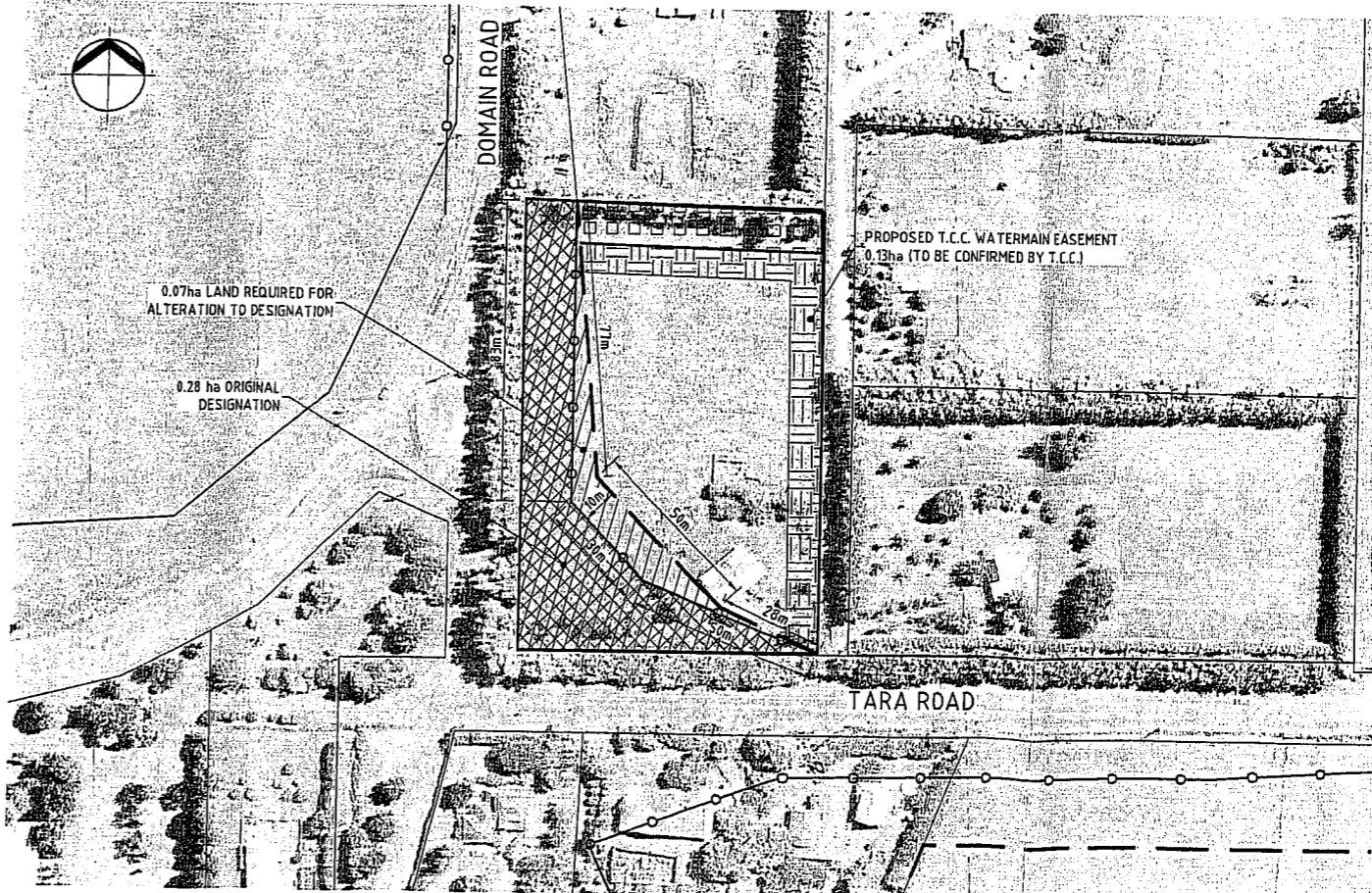
LOCALITY DIAGRAM
SCALE 1:20000

NOTE
LAND REQUIREMENTS ARE APPROXIMATE ONLY AND ARE SUBJECT TO DETAILED DESIGN AND FINAL LEGALISATION SURVEY

LEGEND

- DESIGNATION BOUNDARY
- NEW DESIGNATION BOUNDARY
- AFFECTED PROPERTY
- LAND REQUIRED FOR MOTORWAY
- LAND ALREADY ACQUIRED
- LAND REQUIRED FOR RIGHT OF WAY
- LAND REQUIRED FOR ALTERATION TO DESIGNATION

PC 18341
APPROVED
24 DEC 2008
PLAN



PROPOSED BOUNDARY DETAILS
SCALE 1:1000

| | | | | | |
|-----|--|-----|-----|------|----------|
| E | LAND AREAS UPDATED. | BR | AH | RBF | 22.12.08 |
| D | LAND AREAS UPDATED | AWS | TVH | TVH | 29.04.08 |
| C | NEW ALTERATION TO DESIGNATION BOUNDARY UPDATED | AWS | TVH | TVH | 10.04.08 |
| B | NEW ALTERATION TO DESIGNATION BOUNDARY UPDATED | AWS | TVH | TVH | 18.02.08 |
| No. | Revision | By | Chk | Appd | Date |

Drawing Originator:
BECA Engineers • Planners • Managers

| | | | | |
|-------------------------------|-----------------|----|----------|----------------------------|
| Original Scale (A1) AS SHOWN | Design Drawn | MD | 21.09.07 | Approved For Construction* |
| Reduced Scale (A3) HALF SHOWN | Design Verifier | | | Date |
| | Dwg Check | | | |

* Refer to Revision 1 for Original Signature

Client: **NZ TRANSPORT AGENCY**
WAKA KAITIAKI

Project: **TAURANGA EASTERN MOTORWAY**

Title: **LAND REQUIREMENT PLAN**
LOT 4 DPS 54529
TRANSIT NZ (EX JOHNSON)

FOR INFORMATION
NOT FOR CONSTRUCTION

Discipline: **CIVIL**

Drawing No. **3932036-G040** Rev. **E**

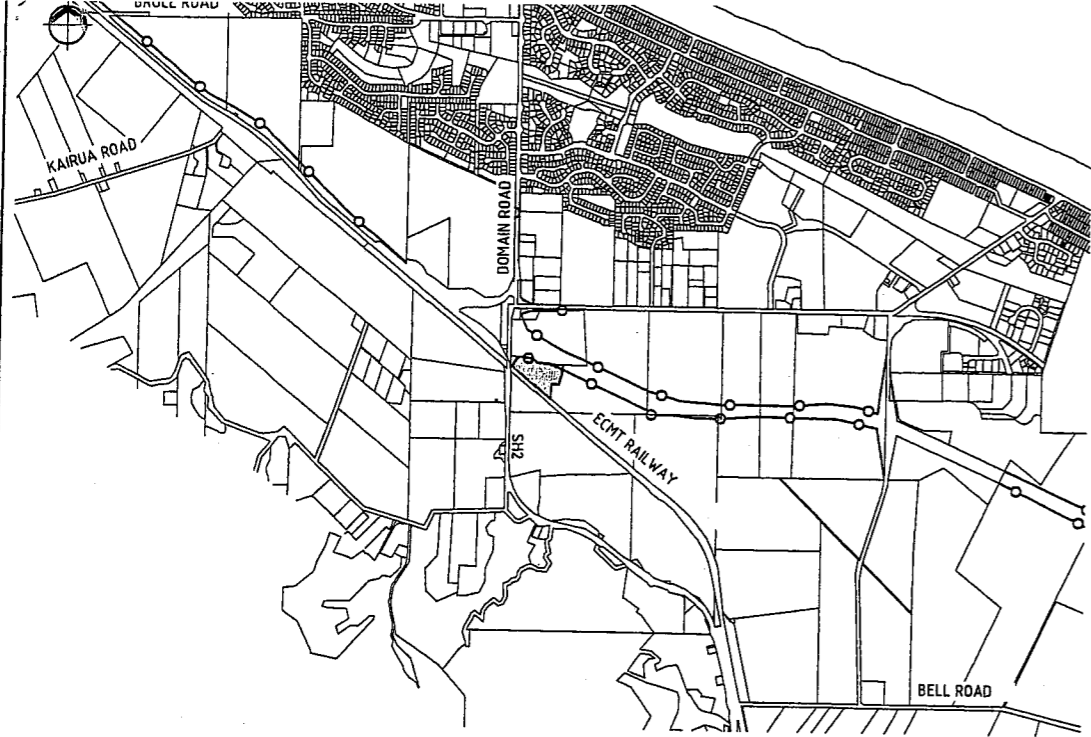
DO NOT SCALE

IF IN DOUBT ASK.

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Document No. 2036060.dwg



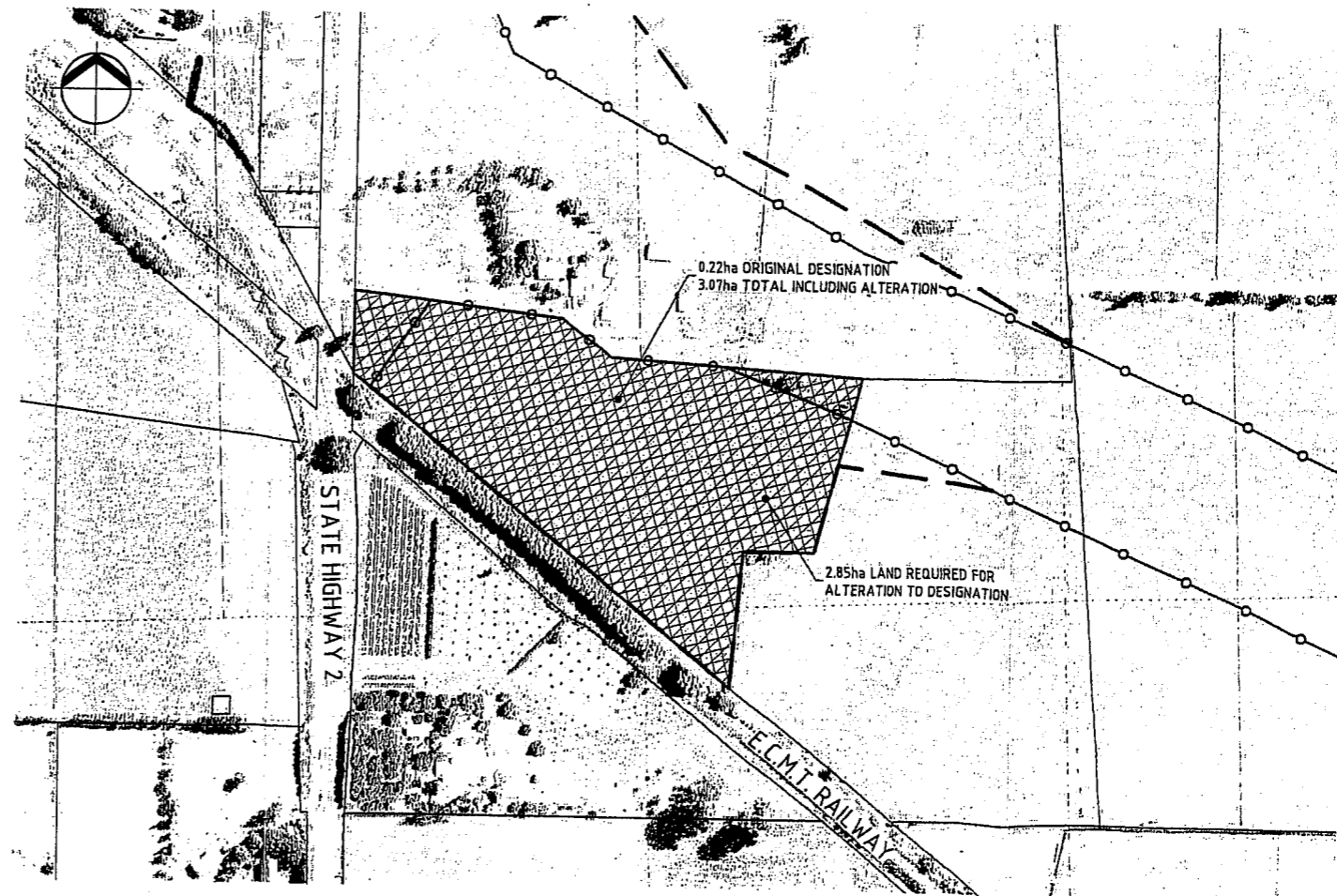
LOCALITY DIAGRAM
SCALE 1:20000

PC1434
 AP. REVISED
 24 DEC 2008
 PLAN

NOTE
 LAND REQUIREMENTS ARE APPROXIMATE ONLY AND ARE SUBJECT TO DETAILED DESIGN AND FINAL LEGALISATION SURVEY

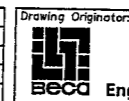
LEGEND

- DESIGNATION BOUNDARY
- NEW DESIGNATION BOUNDARY
- AFFECTED PROPERTY
- LAND REQUIRED FOR MOTORWAY
- LAND ALREADY ACQUIRED
- LAND REQUIRED FOR LOCAL ROAD
- LAND REQUIRED FOR ALTERATION TO DESIGNATION



PROPOSED BOUNDARY DETAILS
SCALE 1:2000

| | | | | | |
|-----|--|-----|-----|------|----------|
| C | LAND AREA UPDATED | AWS | TVH | TVH | 06.05.08 |
| B | NEW ALTERATION TO DESIGNATION BOUNDARY UPDATED | AWS | TVH | TVH | 20.02.08 |
| A | FOR INFORMATION | MD | BIL | TVH | 20.09.07 |
| No. | Revision | By | Chk | Appd | Date |



| | | | | | |
|---------------------|-------------------------------|--------------|----|----------|----------------------------|
| Drawing Originator: | Original Scale (A1) AS SHOWN | Design Drawn | MD | 14.09.07 | Approved For Construction* |
| | Reduced Scale (A3) HALF SHOWN | Dsg Verifier | | | Date |
| | | Dwg Check | | | |

* Refer to Revision 1 for Original Signature



Client: **TRANSIT NEW ZEALAND**
 Project: **TAURANGA EASTERN MOTORWAY**

| | |
|--|--------------------------|
| Title: LAND REQUIREMENT PLAN LOT 1 DPS 60939 TNZ (EX GLEN ORA PARK FARMS) | Discipline: CIVIL |
| Drawing No. 3932036-G047 | Rev. C |

DO NOT SCALE

IF IN DOUBT ASK.

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Document No. 2096G047.dwg



2552*

6 May 2009

Western Bay of Plenty District Council Customer and Business Services

Application for Resource Consent – Non-Notified - NZ TRANSPORT AGENCY

Delegated Authority

P/1386/4092 P/1386/6/2

Recommendation:

THAT pursuant to Section 181 of the Resource Management Act 1991, the New Zealand Transport Agency (formally Transit New Zealand) notice of requirement and plans submitted by Beca, dated 10 February 2009 for alteration of Operative Western Bay of Plenty District Plan designation D179 regarding 'Proposed State Highway between Domain Road, Papamoa and State Highway 33 Intersection known as Eastern Arterial', at Bell Road, Papamoa, legally described as Pt Lot 2 DP 29530 and Lot 1 DPS 61810 is accepted.

Reasons:

The alteration will result in an overall minor change to the effects associated with the proposal as it involves minor alteration to the boundaries of the designation, being an increase of 500m² adjacent to Bell Road and 8,100m² adjacent to the floodbank.

The written approval has been obtained from the directly affected property owners, in accordance with Section 181(3) of the Resource Management Act 1991.

The alteration will not be contrary to the objectives and policies of the Operative District Plan and the purpose and principles of the Resource Management Act 1991.

There are no principle issues in contention.

THAT pursuant to Section 37 of the Resource Management Act 1991, the processing time for this application is extended from 20 working days to 40 working days.

Reasons:

Council notes that due to staff illness, managerial signoff and workload the alteration of designation was unable to be processed within the statutory timeframes which have therefore been extended under section 37 of the Resource Management Act 1991.

Anna Gardiner
Consultant Consents Planner
6 May 2009

PP-
Checked and Approved by T Whittaker
CCLU1

Approved under Delegated Authority
Gael Stevens
Acting Consents Manager

Date: 6.5.9

NOTE
 LAND REQUIREMENTS ARE APPROXIMATE ONLY AND ARE SUBJECT TO DETAILED DESIGN AND FINAL LEGALISATION SURVEY

LEGEND

- DESIGNATION BOUNDARY
- NEW DESIGNATION BOUNDARY
- AFFECTED PROPERTY
- LAND REQUIRED FOR MOTORWAY
- LAND ALREADY ACQUIRED
- LAND REQUIRED FOR LOCAL ROAD
- LAND REQUIRED FOR ALTERATION TO DESIGNATION



LOCALITY DIAGRAM
 SCALE 1:20000



PROPOSED BOUNDARY DETAILS
 SCALE 1:2000

| | | | | | |
|-----|---|-----|-----|------|----------|
| D | UPDATED LAND REQUIREMENTS FOR ACCOMMODATION WORKS | RN | TVH | TVH | 03.02.09 |
| C | LAND AREA UPDATED | AWS | TVH | TVH | 30.04.08 |
| B | NEW ALTERATION TO DESIGNATION BOUNDARY UPDATED | AWS | TVH | TVH | 19.02.08 |
| A | FOR INFORMATION | MD | BIL | TVH | 20.09.07 |
| No. | Revision | By | Chk | Appd | Date |

Drawing Originator:

BECC Engineers • Planners • Managers

| | | |
|--|--------------|---------------------------|
| Original Scale (A1) | Design | Approved For Construction |
| AS SHOWN | Drawn MD | 17.09.07 |
| Reduced Scale (A3) | Dwg Verifier | |
| HALF SHOWN | Dwg Check | |
| Refer to Revision 1 for Original Signature | | Date |

Client:

NZ TRANSPORT AGENCY
 WAKA KOTAHI

Project:

TAURANGA EASTERN MOTORWAY

Title:

LAND REQUIREMENT PLAN
 LOT 1 DPS 61810
 NZTA (EX NICCOL)

FOR INFORMATION NOT FOR CONSTRUCTION

Discipline: **CIVIL**

Drawing No: **3932036-G074**

Rev: **D**

WWW.BECC.COM

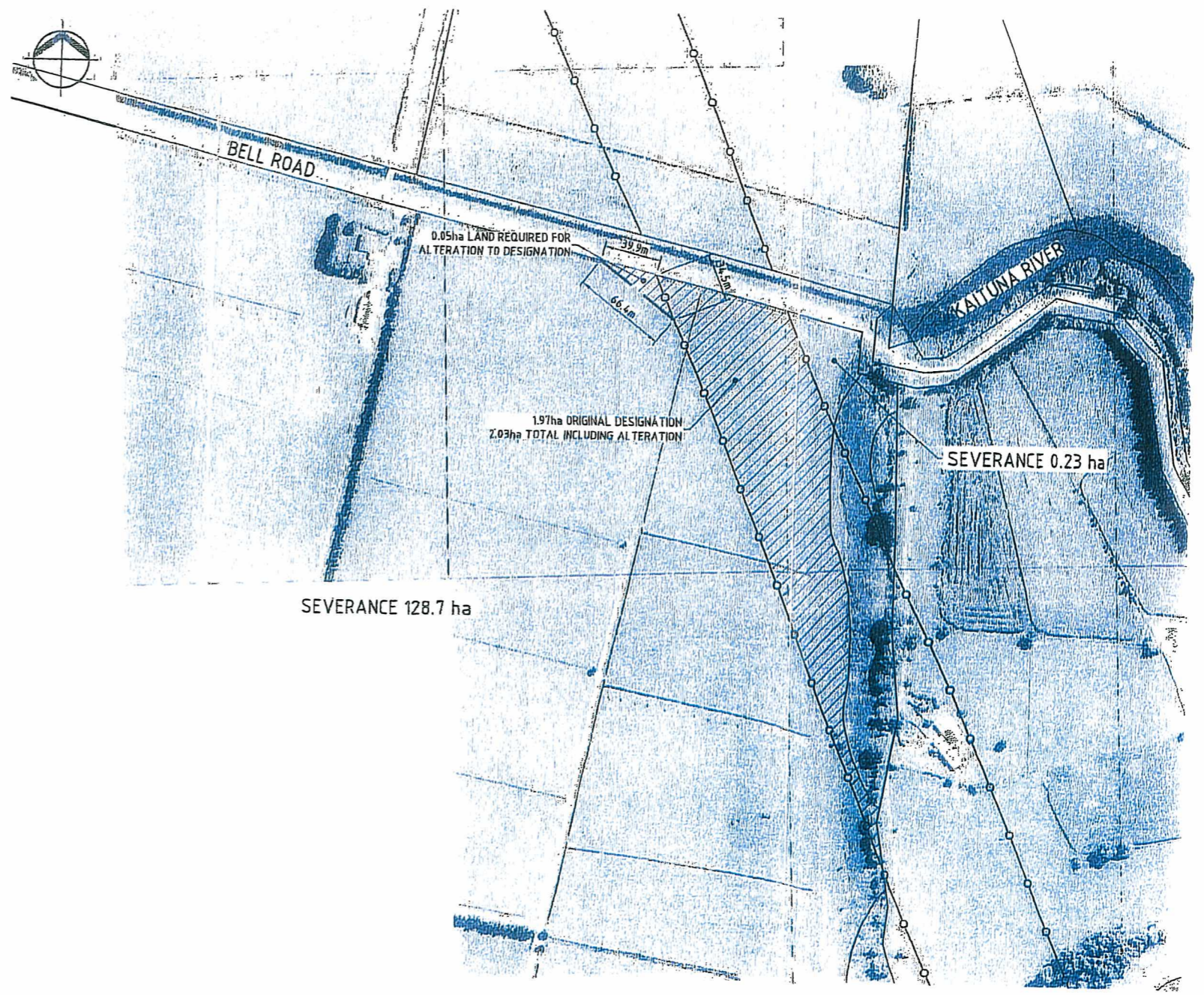


LOCALITY DIAGRAM
SCALE 1:20000

NOTE
LAND REQUIREMENTS ARE APPROXIMATE ONLY AND ARE SUBJECT TO DETAILED DESIGN AND FINAL LEGALISATION SURVEY

LEGEND

- DESIGNATION BOUNDARY
- NEW DESIGNATION BOUNDARY
- AFFECTED PROPERTY
- LAND REQUIRED FOR MOTORWAY
- LAND ALREADY ACQUIRED
- LAND REQUIRED FOR LOCAL ROAD
- LAND REQUIRED FOR ALTERATION TO DESIGNATION



PROPOSED BOUNDARY DETAILS
SCALE 1:2000

Handwritten notes: 4/11, BSM, WSM for T. Maslow, P.S.M.

| | | | | | |
|---|--|-----|-----|-----|----------|
| C | LAND AREA UPDATED | AWS | TVH | TVH | 12.04.08 |
| B | NEW ALTERATION TO DESIGNATION BOUNDARY UPDATED | AWS | TVH | TVH | 11.02.08 |
| A | FOR INFORMATION | MD | BL | TVH | 12.09.07 |

| | | | | | | | |
|---------------------------------|--|---------------------|--|-----------------|--|----------------------------|--|
| Drawing Originator: | | Original Scale (A1) | | Design | | Approved For Construction* | |
| BECO | | AS SHOWN | | Drawn: MD | | 11.09.07 | |
| Engineers • Planners • Managers | | Reduced Scale (A3) | | Disc. Verifier: | | Date | |
| | | By: [Signature] | | Disc. Check: | | | |

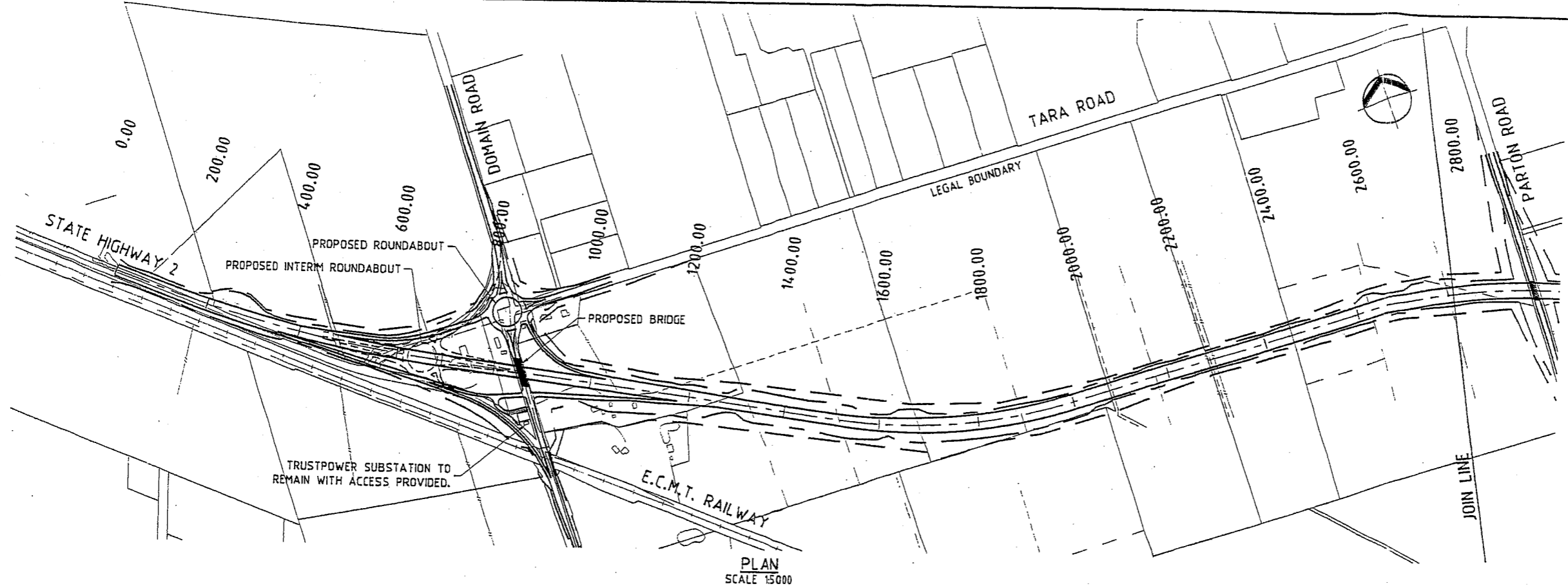
Client: **TAURANGA EASTERN MOTORWAY**

Project: Tauranga Eastern Motorway

Title: LAND REQUIREMENT PLAN
PT LOT 2 DPS 29530

FOR INFORMATION NOT FOR CONSTRUCTION

Discipline: CIVIL
Drawing No.:



PLAN
SCALE 1:5000

LEGEND

- EDGE OF SEAL
- - - EXTENT OF BATTERS
- - - DESIGNATION REQUIREMENT
- - - CENTRELINE OF ALIGNMENT
- - - EXISTING FENCE
- - - EXISTING RAILWAY TRACK
- - - EXISTING DRAIN
- - - EXISTING TRACK

DATUM RL = -5.00m

| | | | | | | | | | | | | | | | | | | |
|----------------------|--------------------------------|--------|--|--------|---|---------|-------------------------------|---------|--|---------|-------------------------------|---------|---|---------|-------------------------|--|---|--|
| DESIGN SURFACE | 7.63 | 8.81 | 7.65 | 6.60 | 7.72 | 8.91 | 9.17 | 8.17 | 6.85 | 5.70 | 5.40 | 5.40 | 5.40 | 5.40 | | | | |
| EXISTING SURFACE | 8.96 | 8.00 | 6.24 | 5.05 | 6.07 | 10.28 | 13.00 | 5.07 | 4.97 | 4.37 | 3.88 | 3.82 | 4.25 | 3.60 | | | | |
| DISTANCE | 0.00 | 200.00 | 400.00 | 600.00 | 800.00 | 1000.00 | 1200.00 | 1400.00 | 1600.00 | 1800.00 | 2000.00 | 2200.00 | 2400.00 | 2600.00 | | | | |
| VERTICAL ALIGNMENT | TANGENT 14.5m @ 0.65% | | VERTICAL CURVE L=250m K=126.25 A=-1.98% | | VERTICAL CURVE L=250m K=129.71 A=1.93% | | TANGENT 4.05m @ 0.60% | | VERTICAL CURVE L=250m K=160.28 A=-1.39% | | TANGENT 710m @ -0.79% | | VERTICAL CURVE L=480m K=606.59 A=0.79% | | TANGENT 610m @ 0.00% | | VERTICAL CURVE L=200m K=1600.00 A=-0.13% | |
| HORIZONTAL ALIGNMENT | TANGENT 28.95m @ 318d47'55" | | CURVE L=669.72m R=3000.00m | | TANGENT 886.74m @ 331d35'22" | | CURVE L=501.62m R=1100.00m | | TANGENT 576.93m @ 357d43'2" | | CURVE L=504.26m R=1200.00m | | | | | | | |

LONG SECTION
HORIZONTAL SCALE 1:5000
VERTICAL SCALE 1:1000

- NOTES:-
1. CROWN COPYRIGHT RESERVED. LEGAL BOUNDARY INFORMATION REPRINTED WITH PERMISSION OF TAURANGA DISTRICT COUNCIL LICENCE No. HN/033523 & WESTERN BAY OF PLENTY DISTRICT COUNCIL LICENCE No. HN35220003.
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 3. DTM DATA AND AERIAL PHOTOGRAPHY SUPPLIED BY NEW ZEALAND AERIAL MAPPING LTD.
 4. FLOOD LEVEL DATA SUPPLIED BY ENVIRONMENT B.O.P.

| | |
|-----|-----------------|
| No. | Revision |
| A | FOR DESIGNATION |

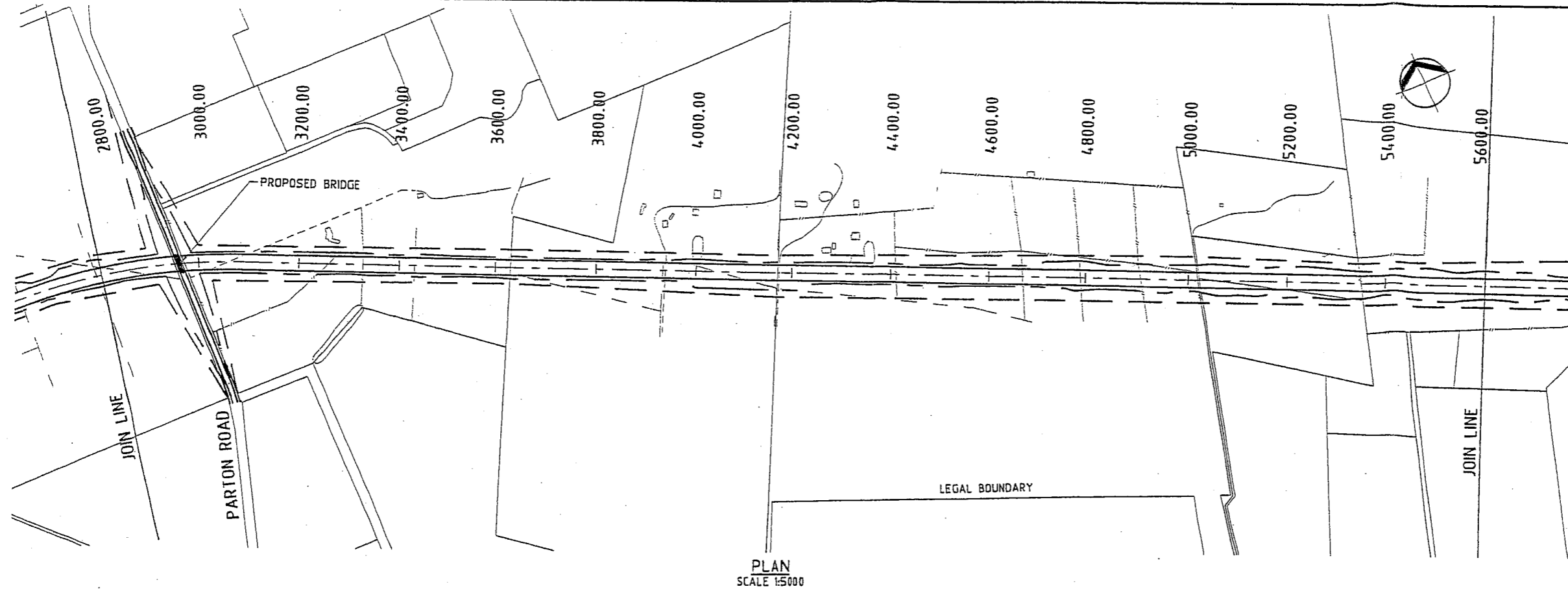
Beca Carter Hollings & Ferner Ltd.
Consulting Engineers
Auckland, Wellington, Christchurch, New Plymouth, Tauranga, Melbourne, Sydney, Port Moresby, Jakarta, Singapore, Brunei.

| | | |
|------------|---------------------------|----------------|
| Designed | Approved for Construction | Scale as drawn |
| Drawn | | 1:5000/1000 |
| Traced | CAD | Reduced |
| Disg Check | Sign | Drawing |
| Disg Check | Date | 1:10000/200 |



| | | |
|---------------------------|------------------------------|-----------------|
| TAURANGA EASTERN ARTERIAL | DESIGNATION REQUIREMENT PLAN | JOB No. 9301240 |
| CIVIL | SHEET 1 OF 6 | DRG No. P007 |

Beca Carter Hollings & Ferner



PLAN
SCALE 1:5000

LEGEND

- EDGE OF SEAL
- - - - - EXTENT OF BATTERS
- - - - - DESIGNATION REQUIREMENT
- - - - - CENTRELINE OF ALIGNMENT
- - - - - EXISTING FENCE
- - - - - EXISTING RAILWAY TRACK
- - - - - EXISTING DRAIN
- - - - - EXISTING TRACK

VPI @ 2900.00
RL = 5.0m

DESIGN SURFACE
EXISTING SURFACE

| | | | | | | | | | | | | | | | | |
|----------------------|--|---------|---------|---------|---------|---------|---------|---------|---------|---------|----------------------------------|---------|---------|---------|------|------|
| DATUM RL = -5.00m | | | | | | | | | | | | | | | | |
| DESIGN SURFACE | 5.28 | 5.15 | 5.15 | 5.15 | 5.15 | 5.15 | 5.15 | 5.15 | 5.15 | 5.15 | 5.15 | 5.15 | 5.15 | 5.15 | 5.15 | 5.15 |
| EXISTING SURFACE | 3.74 | 4.80 | 4.91 | 4.92 | 4.92 | 3.64 | 2.00 | 3.39 | 4.70 | 4.74 | 8.15 | 7.52 | 8.78 | 5.69 | | |
| DISTANCE | 2800.00 | 3000.00 | 3200.00 | 3400.00 | 3600.00 | 3800.00 | 4000.00 | 4200.00 | 4400.00 | 4600.00 | 4800.00 | 5000.00 | 5200.00 | 5400.00 | | |
| VERTICAL ALIGNMENT | VERTICAL CURVE L=290m K=1600.00 A=+0.13% | | | | | | | | | | TANGENT 4890m @ 0.80% | | | | | |
| HORIZONTAL ALIGNMENT | CURVE L=504.26m R=1200.00m | | | | | | | | | | TANGENT 3728.63m @ 333.58°26' | | | | | |

NOTES:-

1. CROWN COPYRIGHT RESERVED. LEGAL BOUNDARY INFORMATION REPRINTED WITH PERMISSION OF TAURANGA DISTRICT COUNCIL LICENCE No. HN/033523 & WESTERN BAY OF PLENTY DISTRICT COUNCIL LICENCE No. HN35220003.
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3. DTM DATA AND AERIAL PHOTOGRAPHY SUPPLIED BY NEW ZEALAND AERIAL MAPPING LTD.
4. FLOOD LEVEL DATA SUPPLIED BY ENVIRONMENT B.O.P.

LONG SECTION
HORIZONTAL SCALE 1:5000
VERTICAL SCALE 1:1000

| | | |
|-----|-----------------|------|
| No. | Revision | Date |
| A | FOR DESIGNATION | |

Beca Carter Hollings & Ferner Ltd.
Auckland, Wellington, Christchurch, New Plymouth, Tauranga, Maibourne, Sydney, Port Moresby, Jakarta, Singapore, Brunei.
Consulting Engineers

| | | |
|-----------|---------------------------|-----------------|
| Designed | Approved for Construction | Scale as drawn |
| Drawn | CAO | 1:5000/1000 |
| Trace | Sign | Reduced Drawing |
| Use Check | Date | 10/08/2004 |
| Dra Check | Date | |

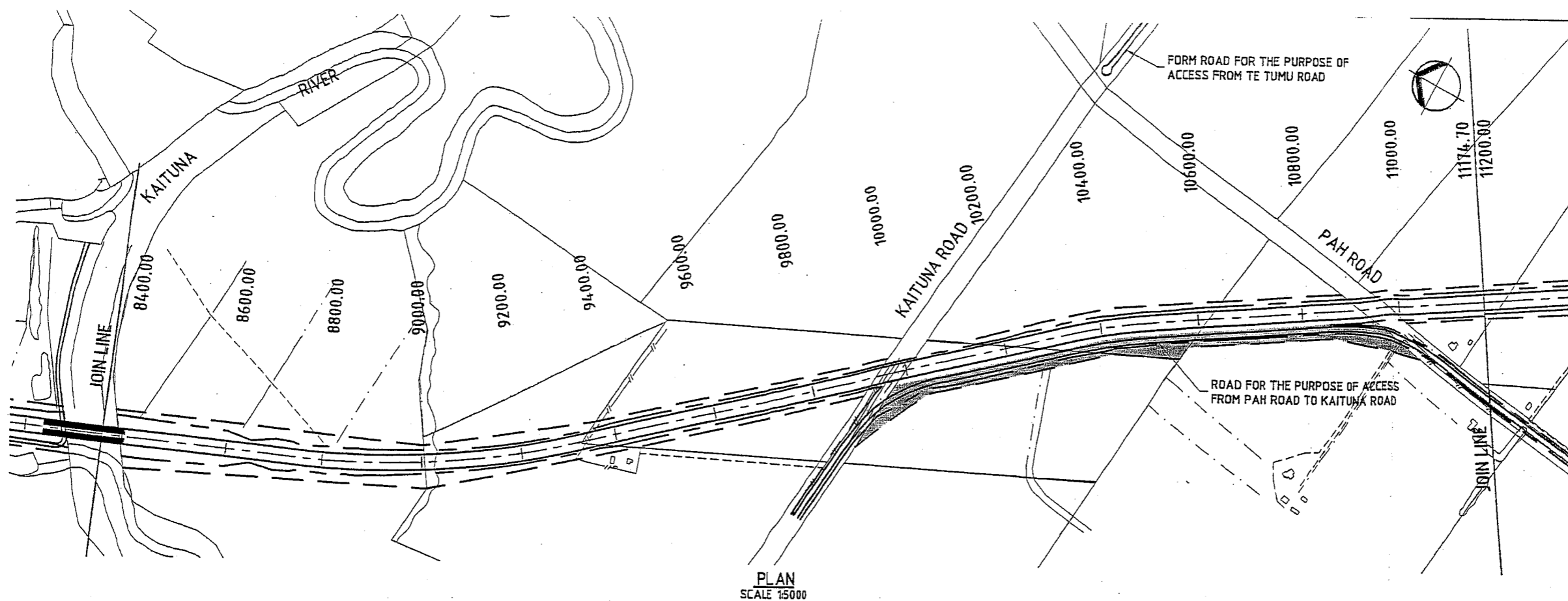


TAURANGA
EASTERN ARTERIAL
CIVIL

DESIGNATION
REQUIREMENT PLAN
SHEET 2 OF 6

| | |
|---------|---------|
| Job No. | 9301240 |
| Dwg No. | P008 |
| Rev. | |

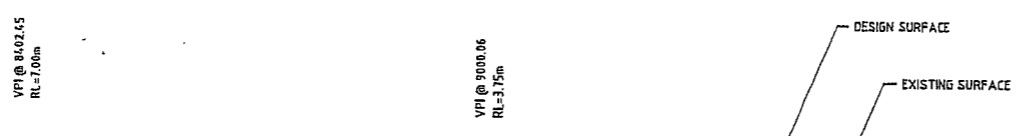
Beca Carter Hollings & Ferner



PLAN
SCALE 1:5000

LEGEND

- EDGE OF SEAL
- - - - - EXTENT OF BATTERS
- - - - - DESIGNATION REQUIREMENT
- - - - - CENTRELINE OF ALIGNMENT
- - - - - EXISTING FENCE
- - - - - EXISTING RAILWAY TRACK
- - - - - EXISTING DRAIN
- - - - - EXISTING TRACK
- - - - - LEGAL BOUNDARY
- [Hatched Area] AREA OF LOCAL ROAD TO BE DESIGNATED FOR THE PURPOSE OF ACCESS



DATUM RL = -5.00m

| | | | | | | | | | | | | | | | | | | | |
|----------------------|---|---------|--|-------------------------------|---|---------|----------------------------|-----------------------------|----------|----------|-------------------------------|----------|---------------------------------|----------|----------|------|------|------|------|
| DESIGN SURFACE | 7.00 | 6.20 | 3.99 | 3.75 | 3.75 | 3.75 | 3.75 | 3.75 | 3.75 | 3.75 | 3.75 | 3.75 | 3.75 | 3.75 | 3.75 | 3.75 | 3.75 | 3.75 | 3.75 |
| EXISTING SURFACE | 0.66 | 1.76 | 1.47 | 1.46 | 1.45 | 1.45 | 1.70 | 2.31 | 2.84 | 1.99 | 3.10 | 1.49 | 1.49 | 1.65 | | | | | |
| DISTANCE | 8400.00 | 8600.00 | 8800.00 | 9000.00 | 9200.00 | 9400.00 | 9600.00 | 9800.00 | 10000.00 | 10200.00 | 10400.00 | 10600.00 | 10800.00 | 11000.00 | 11200.00 | | | | |
| VERTICAL ALIGNMENT | VERTICAL CURVE L=57m K=??? A=7.77 | | VERTICAL CURVE L=57m K=??? A=1.00% | | VERTICAL CURVE L=16m K=??? A=7.77 | | TANGENT 3561.7m @ 0.00% | | | | | | | | | | | | |
| HORIZONTAL ALIGNMENT | TANGENT 1349.56m @ 77.67° | | | CURVE L=587.81m R=1750.00m | | | | TANGENT 999.51m @ 77.67° | | | CURVE L=172.15m R=1150.00m | | TANGENT 3710.50m @ 302.2°38" | | | | | | |

LONG SECTION
HORIZONTAL SCALE 1:5000
VERTICAL SCALE 1:1000

- NOTES:-**
1. CROWN COPYRIGHT RESERVED. LEGAL BOUNDARY INFORMATION REPRINTED WITH PERMISSION OF TAURANGA DISTRICT COUNCIL LICENCE No. HN/033523 & WESTERN BAY OF PLENTY DISTRICT COUNCIL LICENCE No. HN35220003.
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 3. DTM DATA AND AERIAL PHOTOGRAPHY SUPPLIED BY NEW ZEALAND AERIAL MAPPING LTD.
 4. FLOOD LEVEL DATA SUPPLIED BY ENVIRONMENT B.O.P.

| | | | |
|-----|--|------|----------|
| D | MINOR CHANGES TO ACCESS ROAD DESCRIPTIONS | VJH | 14/11/20 |
| C | ALIGNMENT AMENDED TO AVOID RESERVE | DRY | 5.20 |
| B | LEGAL BOUNDARY ADDED TO LEGEND. KAITUNA RD EXTENSION ADDED | DRY | 12.39 |
| A | FOR DESIGNATION | JJH | 4.59 |
| No. | Revision | Appd | Date |

Beca Carter Hollings & Ferner Ltd.
Consulting Engineers
Auckland, Wellington, Christchurch, New Plymouth, Tauranga, Melbourne, Sydney, Port Moresby, Jakarta, Singapore, Brunel.

| | | | |
|-----------|-----|---------------------------|-----------------|
| Designed | SJF | Approved for Construction | Scale as drawn |
| Drawn | BL | | 1:5000/1000 |
| Traced | CAD | Sign | Reduced Drawing |
| Day Check | | | 1:10000/2000 |
| Drq Check | SJF | Date | |

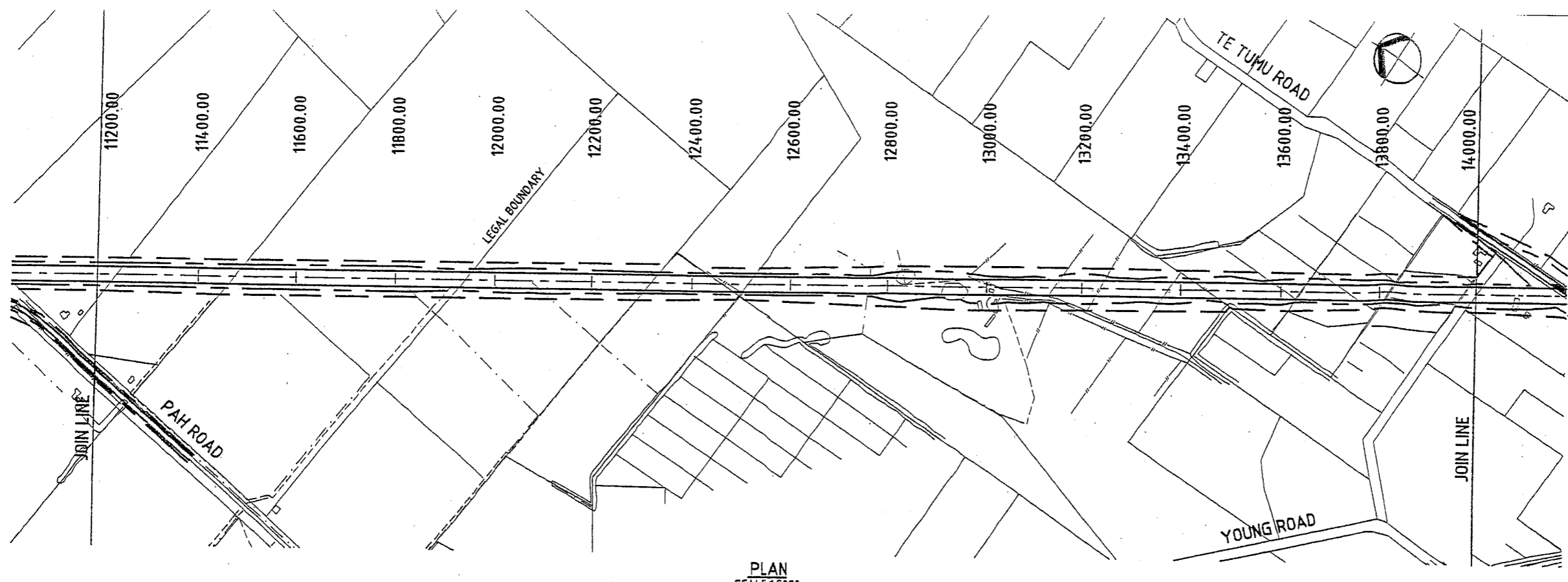


TAURANGA EASTERN ARTERIAL
CIVIL

DESIGNATION REQUIREMENT PLAN
SHEET 4 OF 6

| | |
|---------|---------|
| Job No. | 9301240 |
| Drq No. | P010 |
| Rev. | |

Beca Carter Hollings & Ferner
CAD DRG No. P:0319301454\CAD\124010



PLAN
SCALE 1:5000

LEGEND

- EDGE OF SEAL
- - - EXTENT OF BATTERS
- - - DESIGNATION REQUIREMENT
- - - CENTRELINE OF ALIGNMENT
- - - EXISTING FENCE
- - - EXISTING RAILWAY TRACK
- - - EXISTING DRAIN
- - - EXISTING TRACK

DATUM RL = -5.00m

| | | | | | | | | | | | | | | | |
|----------------------|---------------------------------|----------|----------|----------|----------|----------|----------|----------|---|----------|----------|--------------------------|----------|----------|------|
| DESIGN SURFACE | 3.75 | 3.75 | 3.75 | 3.75 | 3.75 | 3.75 | 3.75 | 3.75 | 3.75 | 4.11 | 5.16 | 6.27 | 7.38 | 8.49 | 9.60 |
| EXISTING SURFACE | 1.54 | 1.34 | 1.10 | 0.80 | 1.44 | 1.69 | 2.16 | 2.13 | 4.93 | 8.48 | 8.74 | 8.24 | 7.67 | 10.26 | |
| DISTANCE | 11200.00 | 11400.00 | 11600.00 | 11800.00 | 12000.00 | 12200.00 | 12400.00 | 12600.00 | 12800.00 | 13000.00 | 13200.00 | 13400.00 | 13600.00 | 13800.00 | |
| VERTICAL ALIGNMENT | TANGENT 3760m @ 0.002% | | | | | | | | VERTICAL CURVE L=250m K=450.53 A=0.55% | | | TANGENT 1960m @ 0.55% | | | |
| HORIZONTAL ALIGNMENT | TANGENT 4207.03m @ 302d2'38" | | | | | | | | | | | | | | |

VPI @ 13145.00
RL = 3.75m

LONG SECTION
HORIZONTAL SCALE 1:5000
VERTICAL SCALE 1:1000

NOTES:-

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3. DTM DATA AND AERIAL PHOTOGRAPHY SUPPLIED BY NEW ZEALAND AERIAL MAPPING LTD.
4. FLOOD LEVEL DATA SUPPLIED BY ENVIRONMENT B.O.P.

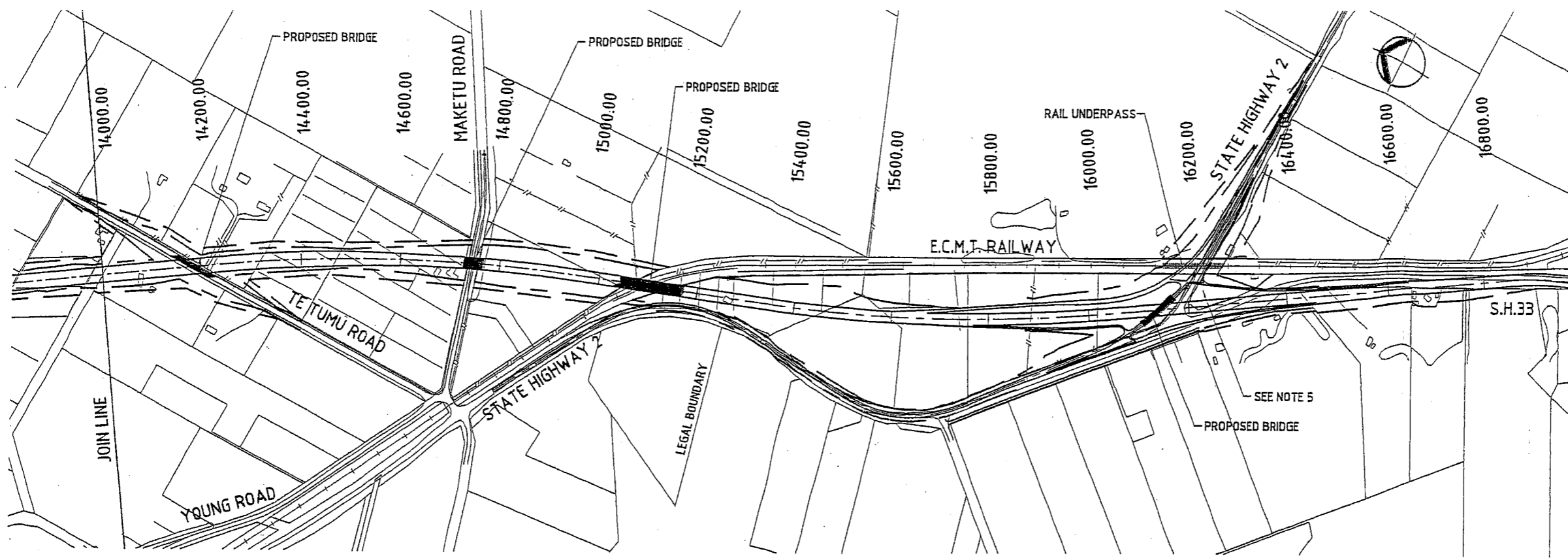
| | | | |
|-----|-------------------------------|------|--------|
| No. | Revision | Appd | Date |
| B | TE TUMU ROAD CROSSING AMENDED | | |
| A | FOR DESIGNATION | JJH | 4.5.99 |

BECA Beca Carter Hollings & Ferner Ltd.
 Auckland, Wellington, Christchurch, New Plymouth, Tauranga,
 Melbourne, Sydney, Port Moresby, Jakarta, Singapore, Brunei.
 Consulting Engineers

| | | | |
|-----------|-----|---------------------------|-----------------|
| Designed | SJF | Approved for Construction | Scale as drawn |
| Drawn | BL | | 1:5000/1000 |
| Traced | CAD | Sign | Reduced Drawing |
| Doc Check | | | 1:10000/2000 |
| Drq Check | SJF | Date | |



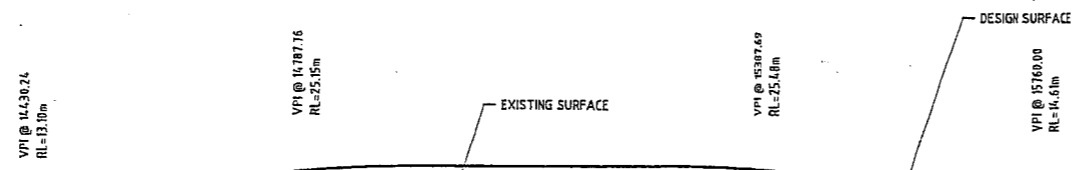
| | | |
|---------------------------|------------------------------|-----------------|
| TAURANGA EASTERN ARTERIAL | DESIGNATION REQUIREMENT PLAN | Job No. 9301240 |
| CIVIL | SHEET 5 OF 6 | Drq No. P011 |



PLAN
SCALE 1:5000

LEGEND

- EDGE OF SEAL
- - - - - EXTENT OF BATTERS
- - - - - DESIGNATION REQUIREMENT
- - - - - CENTRELINE OF ALIGNMENT
- - - - - EXISTING FENCE
- - - - - EXISTING RAILWAY TRACK
- - - - - EXISTING DRAIN
- - - - - EXISTING TRACK



| | | | | | | | | | | | | | | | |
|----------------------|---------------------------------|-----------|---|-----------|-------------------------------------|-----------|---------------------------------|-----------|-------------------------------------|-----------|---|-----------|---------------------------------|-----------|--|
| DATUM RL = -5.00m | | | | | | | | | | | | | | | |
| DESIGN SURFACE | 10.74 | 11.82 | 13.95 | 16.85 | 21.04 | 25.27 | 25.38 | 24.24 | 19.44 | 16.15 | 15.81 | 16.81 | 17.81 | 18.81 | |
| EXISTING SURFACE | 11.81 | 10.82 | 14.84 | 14.92 | 14.97 | 16.55 | 17.18 | 11.38 | 12.88 | 14.43 | 6.81 | 15.03 | 17.53 | 17.99 | |
| DISTANCE | 14,000.00 | 14,300.00 | 14,400.00 | 14,600.00 | 14,800.00 | 15,000.00 | 15,200.00 | 15,400.00 | 15,600.00 | 15,800.00 | 16,000.00 | 16,200.00 | 16,400.00 | 16,600.00 | |
| VERTICAL ALIGNMENT | TANGENT 1360.24m @ 0.55% | | VERTICAL CURVE L=400m K=142.09 A=7.82% | | VERTICAL CURVE L=320.39m K=7 A=7 | | TANGENT 299.95m @ 0.06% | | VERTICAL CURVE L=279.42m K=7 A=7 | | VERTICAL CURVE L=460m K=134.50 A=3.42% | | TANGENT 1145m @ 0.50% | | |
| HORIZONTAL ALIGNMENT | TANGENT 4207.03m @ 302d2'38" | | CURVE L=739.36m R=3000.00m | | | | TANGENT 362.61m @ 287d55'23" | | CURVE L=710.29m R=3000.00m | | | | TANGENT 793.45m @ 301d25'19" | | |

LONG SECTION
HORIZONTAL SCALE 1:5000
VERTICAL SCALE 1:1000

- NOTES:-**
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 3. DTM DATA AND AERIAL PHOTOGRAPHY SUPPLIED BY NEW ZEALAND AERIAL MAPPING LTD.
 4. FLOOD LEVEL DATA SUPPLIED BY ENVIRONMENT B.O.P.
 5. POSSIBLE INTERIM AT GRADE INTERSECTION TO BE PROVIDED.

| | | | |
|-----|---|------|----------|
| C | MAKETU & TE TUMU ROAD CROSSINGS AMENDED | JJH | 14.08.02 |
| B | SH2 REALIGNED, RAIL UNDERPASS ADDED | JJH | 14.08.02 |
| A | FOR DESIGNATION | JJH | 4.5.99 |
| No. | Revision | Appd | Date |

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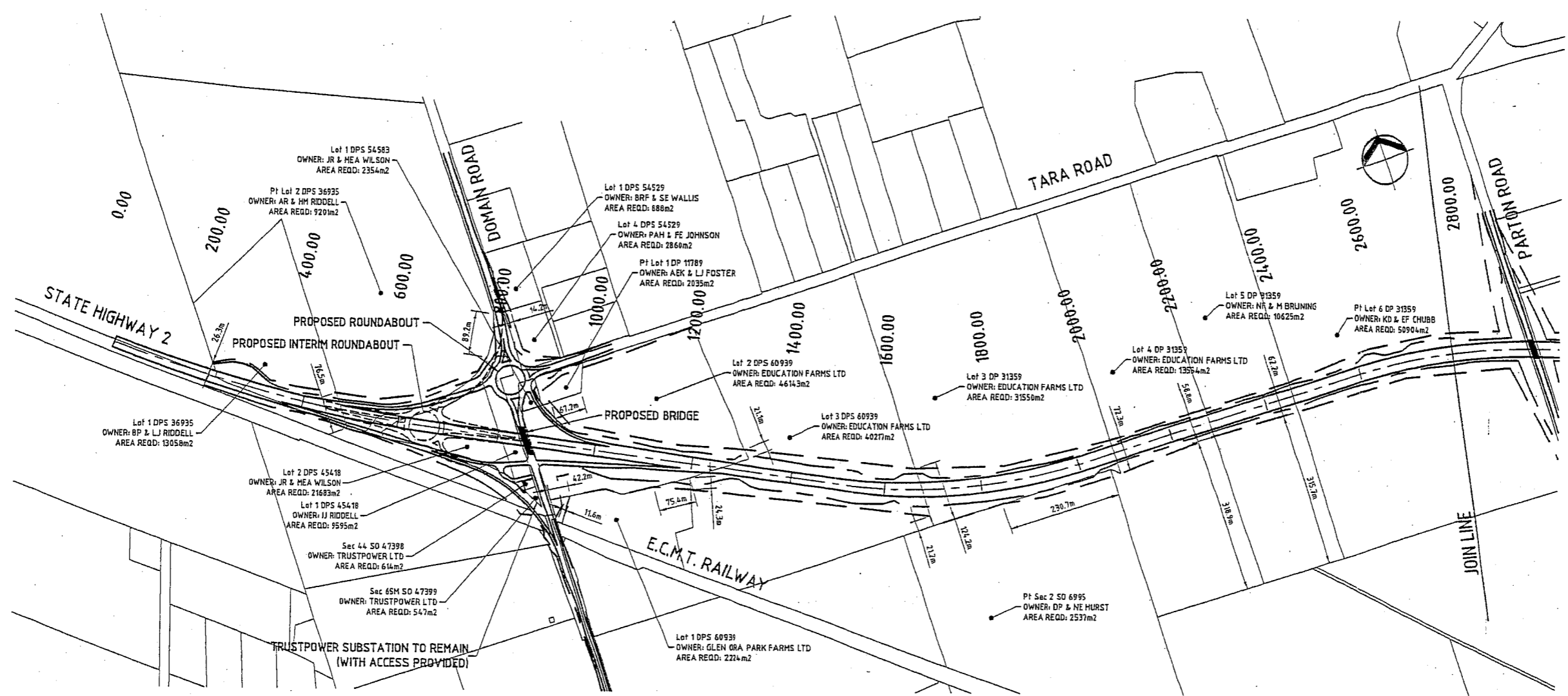
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|------------|-----|---------------------------|-----------------|
| Designed | SJF | Approved for Construction | Scale as drawn |
| Drawn | BL | | 1:5000/1000 |
| Traced | CAD | Sign | Reduced Drawing |
| Dwg Check | SJF | Date | 1:10000/2000 |
| Idre Check | SJF | Date | |



TAURANGA
EASTERN ARTERIAL
CIVIL

DESIGNATION
REQUIREMENT PLAN
SHEET 6 OF 6

| | |
|---------|---------|
| Job No. | 9301240 |
| Dwg No. | P012 |
| Rev. | |



PLAN
SCALE 1:5000

LEGEND

- EDGE OF SEAL
- - - EXTENT OF BATTERS
- - - DESIGNATION REQUIREMENT
- - - CENTRELINE OF ALIGNMENT
- LEGAL BOUNDARY

NOTES:-

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3. FLOOD LEVEL DATA SUPPLIED BY ENVIRONMENT B.O.P.

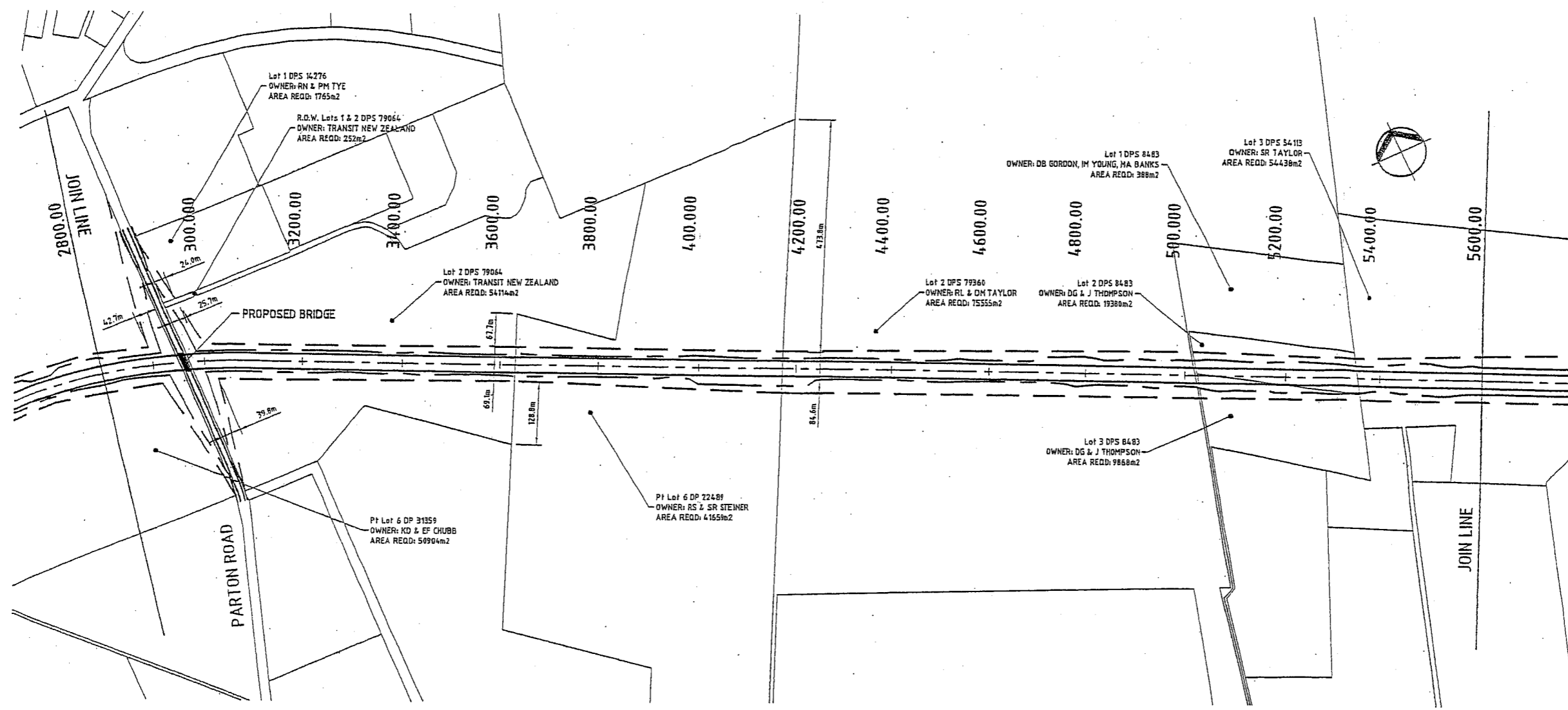
| | | | |
|-----|--|------|----------|
| No. | Revision | Appd | Date |
| B | MINOR ADJUSTMENTS TO EXTENT OF BATTERS | DRY | 23/07/99 |
| A | FOR DESIGNATION | JJH | 4.5.99 |

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| | | | |
|------------|-----|---------------------------|-----------------|
| Designed | SJF | Approved for Construction | Scale as drawn |
| Drawn | BIL | | 1:5000/1000 |
| Traced | CAD | Sign | Reduced Drawing |
| Isag Check | | | |
| Dwg Check | SJF | Date | 1:10000/2000 |



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|---------------------------|-----------------------|-----------------|
| TAURANGA EASTERN ARTERIAL | LAND REQUIREMENT PLAN | Job No. 9301240 |
| CIVIL | SHEET 1 OF 6 | Dwg No. P013 |



PLAN
SCALE 1:5000

LEGEND

- EDGE OF SEAL
- EXTENT OF BATTERS
- DESIGNATION REQUIREMENT
- CENTRELINE OF ALIGNMENT
- LEGAL BOUNDARY

NOTES:-

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3. FLOOD LEVEL DATA SUPPLIED BY ENVIRONMENT B.O.P.

| | | | |
|-----|---|------|------------|
| No. | Revision | ADBY | Date |
| B | LAND OWNERSHIP UPDATED TO REFLECT TNZ PURCHASES | | 12/01/2004 |
| A | FOR DESIGNATION | | 08/04/2003 |

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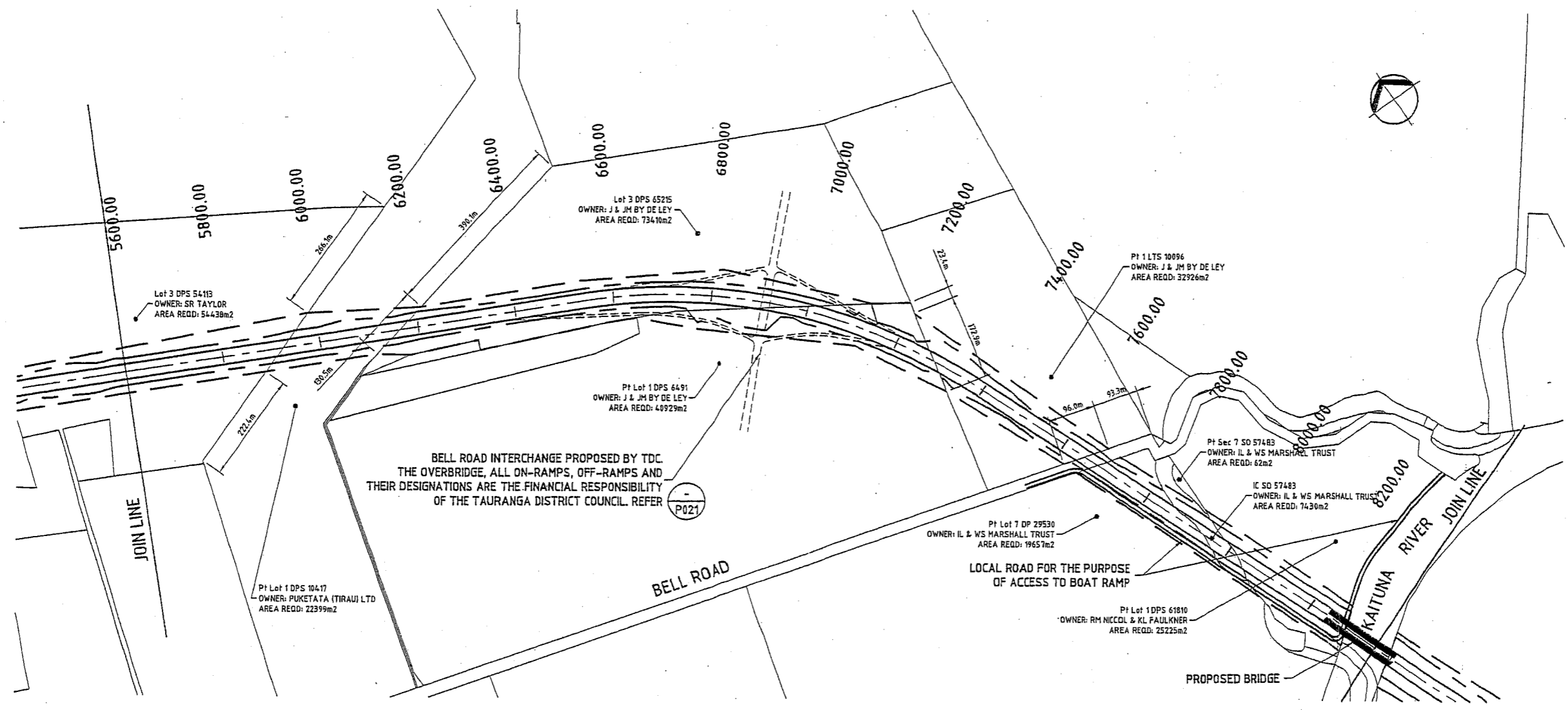
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| | | | |
|------------|-----|---------------------------|-----------------|
| Designed | SJF | Approved for Construction | Scale as drawn |
| Drawn | BIL | | 1:5000/1000 |
| Traced | CAD | | Revised Drawing |
| Disc Check | SJF | Date | 1:10000/2004 |



| | | |
|------------------------------|--|--------------------|
| TAURANGA EASTERN ARTERIAL | LAND REQUIREMENT PLAN SHEET 2 OF 6 | Job No. 9301240 |
| CIVIL | | Rev. P014 |

Beca Carter Hollings & Ferner Ltd. P:\9301240\CAD\120101\120101.dwg



PLAN
SCALE 1:5000

LEGEND

- EDGE OF SEAL
- EXTENT OF BATTERS
- DESIGNATION REQUIREMENT
- CENTRELINE OF ALIGNMENT
- LEGAL BOUNDARY

NOTES:-

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3. FLOOD LEVEL DATA SUPPLIED BY ENVIRONMENT B.O.P.

| No. | Revision | Aspd | Date |
|-----|--|------|---------|
| D | MINOR CHANGES TO ACCESS ROAD DESCRIPTION | | |
| C | ALIGNMENT ALTERED TO AVOID RESERVE | DRY | 15.02 |
| B | LEGAL BOUNDARY AMENDED BELL ROAD | DRY | 23.6.99 |
| A | FOR DESIGNATION | JJH | 4.5.99 |

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 Melbourne, Sydney, Port Moresby, Jakarta, Singapore, Brunei.

Designed: SJF
 Drawn: BIL
 Traced: CAD
 Dwg Check: []
 Date: []

Approved for Construction: []
 Sign: []
 Date: []

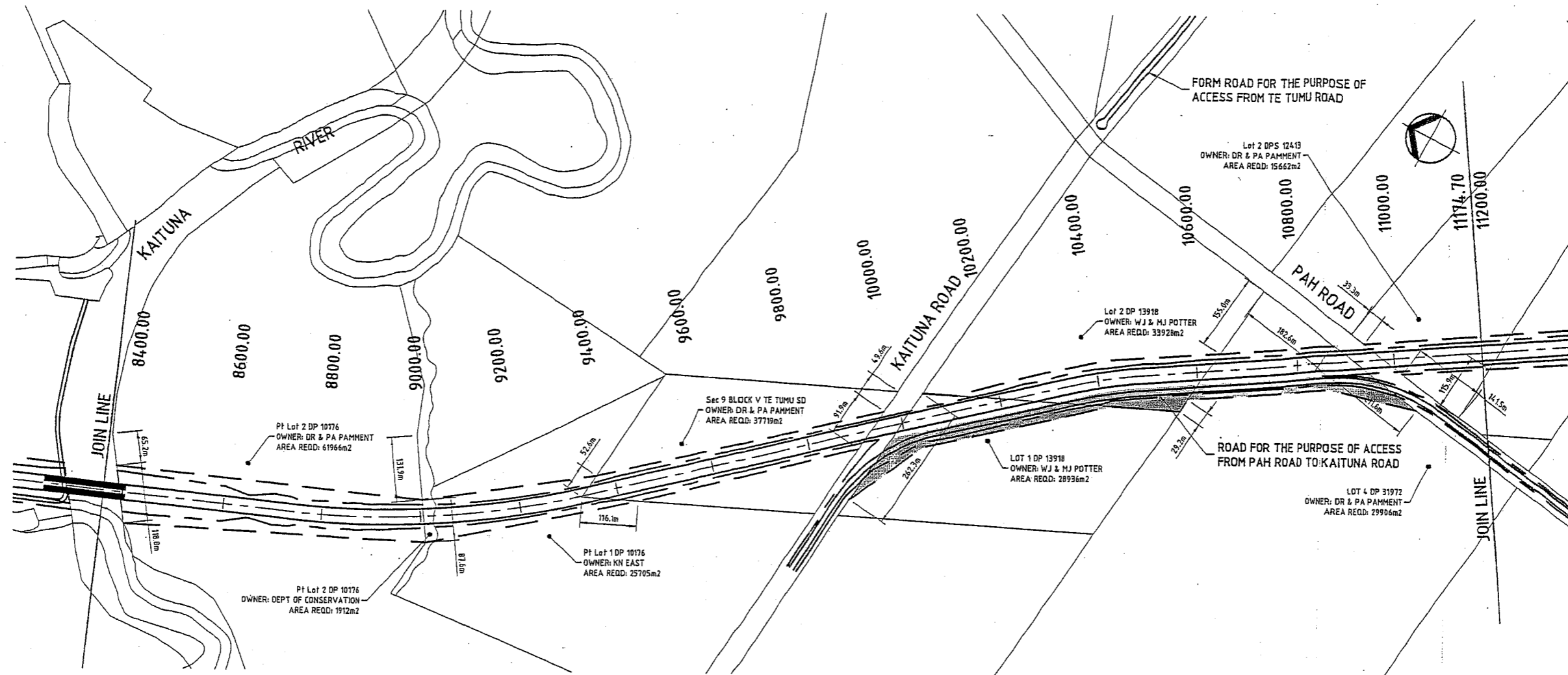
Scale as drawn: 1:5000/1000
 Reduced Drawing: 1:10000/2000



TAURANGA
EASTERN ARTERIAL
CIVIL

LAND REQUIREMENT
PLAN
SHEET 3 OF 6

Job No. 9301240
 Dwg No. P015
 Rev. []



PLAN
SCALE 1:5000

LEGEND

- EDGE OF SEAL
- - - EXTENT OF BATTERS
- - - DESIGNATION REQUIREMENT
- - - CENTRELINE OF ALIGNMENT
- LEGAL BOUNDARY
- ▨ AREA OF LOCAL ROAD TO BE DESIGNATED FOR THE PURPOSE OF ACCESS

NOTES:-

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3. FLOOD LEVEL DATA SUPPLIED BY ENVIRONMENT B.O.P.

| No. | Revision | Appd | Date |
|-----|---|------|----------|
| D | MINOR CHANGES TO ACCESS ROAD DESCRIPTIONS | JJH | 22/11/00 |
| C | LAND OWNERSHIP UPDATED TO REFLECT TNZ PURCHASES | DRY | 29.3.99 |
| B | ALIGNMENT AMENDED TO AVOID RESERVE. AREAS AMENDED | DRY | 5.5.99 |
| A | FOR DESIGNATION | JJH | 4.3.99 |

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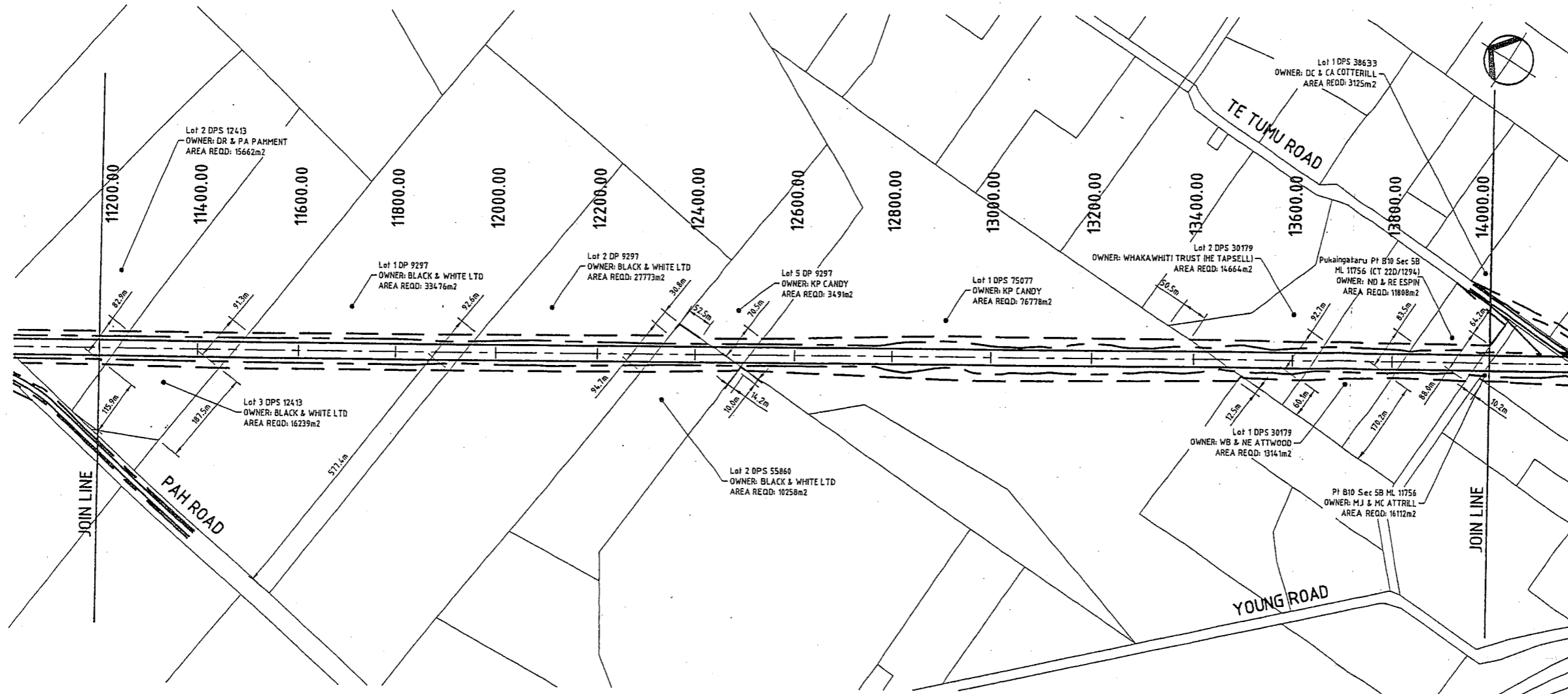
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|-----------|-----|---------------------------|-----------------|
| Designed | SJF | Approved for Construction | Scale as drawn |
| Drawn | BIL | | 1:5000/1000 |
| Traced | CAD | Sign | Reduced Drawing |
| Dwg Check | SJF | Date | 10/00/2000 |



TAURANGA
EASTERN ARTERIAL
CIVIL

LAND REQUIREMENT
PLAN
SHEET 4 OF 6

Job No. 9301240
Dwg No. P016
Rev.



PLAN
SCALE 1:5000

LEGEND

- EDGE OF SEAL
- - - - - EXTENT OF BATTERS
- - - - - DESIGNATION REQUIREMENT
- - - - - CENTRELINE OF ALIGNMENT
- LEGAL BOUNDARY

NOTES:-

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| | | | |
|-----|---|------|----------|
| E | ESPIN PROPERTY DESCRIPTION AMENDED | JH | 14/11/17 |
| D | TE TUMU ROAD CROSSING & DESIGNATION AREAS AMENDED | DRY | 28/11/02 |
| C | LAND OWNERSHIP UPDATED TO REFLECT TNZ PURCHASES | DRY | 28/9/09 |
| B | MINOR AMENDMENTS TO DESIGNATION BOUNDARY | DRY | 23/6/97 |
| A | FOR DESIGNATION | JH | 4/5/97 |
| No. | Revision | Appd | Date |

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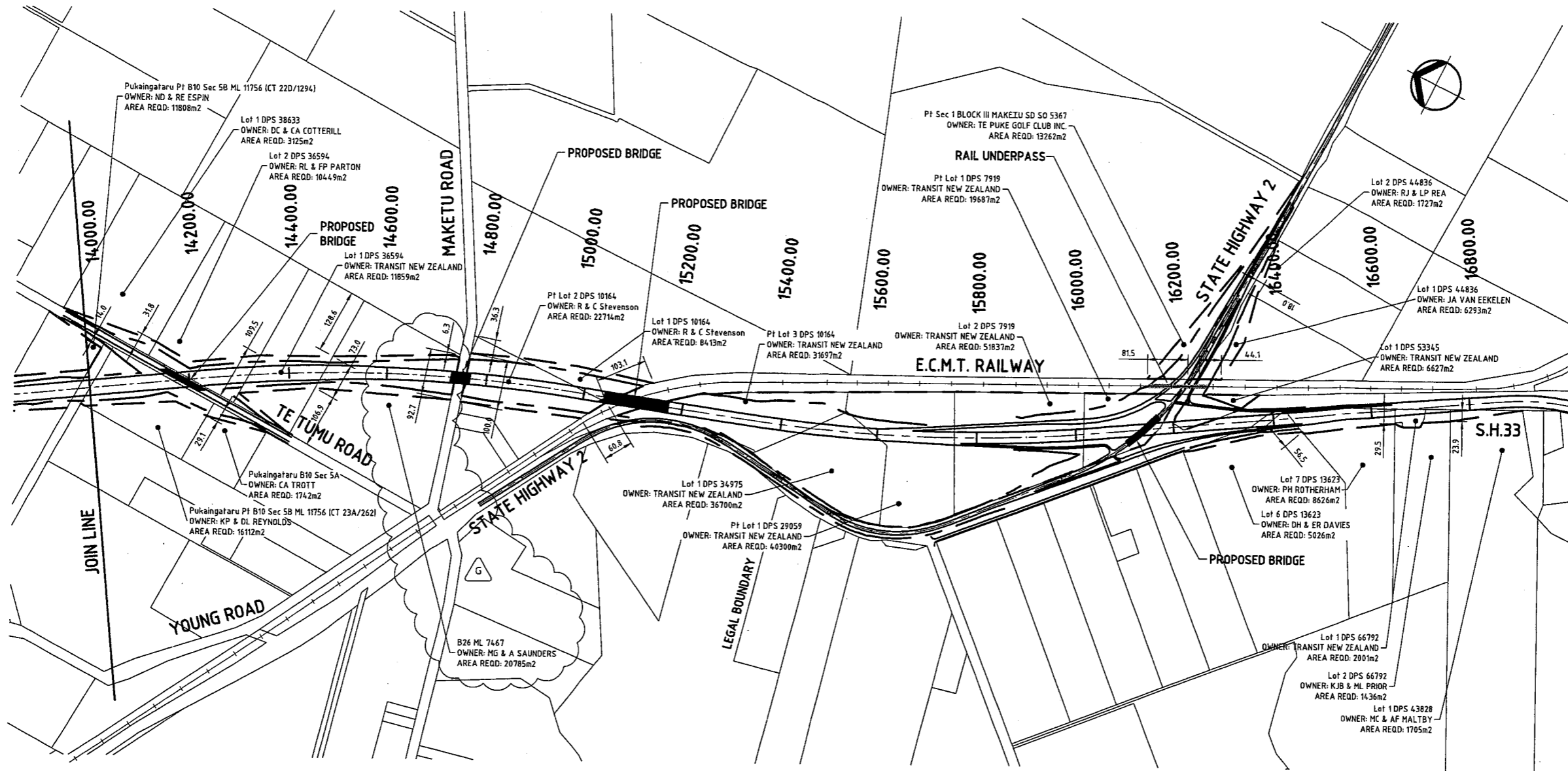
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| Designed | SJF | Approved for Construction | Scale as Drawn |
| Drawn | BIL | | 1:5000/1000 |
| Traced | CAD | Sign | Reduced Drawing |
| Dag Check | | Org Check | 1:10000/2000 |
| Org Check | SJF | Date | |



TAURANGA
EASTERN ARTERIAL
CIVIL

LAND REQUIREMENT
PLAN
SHEET 5 OF 6

Job No. 9301240
 Rev. P017



PLAN
SCALE 1:5000

SUPERSEDED

LEGEND

- EDGE OF SEAL
- - - EXTENT OF BATTERS
- DESIGNATION REQUIREMENT
- - - CENTRELINE OF ALIGNMENT
- EXISTING RAILWAY TRACK

NOTES:-

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| No. | Revision | Appd | Date |
|-----|---|------|----------|
| G | PROVISION OF ACCESS TO SAUNDERS PROPERTY FROM MAKETU ROAD | | 15.02.08 |
| F | ESPIN & REYNOLDS PROPERTY DESCRIPTIONS AMENDED | DRY | 4.12.08 |
| E | MAKETU & TE TUMU ROAD CROSSINGS & DESIGNATION AREAS AMENDED | DRY | 24.11.08 |
| D | LAND OWNERSHIP UPDATED TO REFLECT TNZ PURCHASES | DRY | 28.3.08 |
| C | SH 2 REALIGNED, RAIL UNDERPASS ADDED | DRY | 16.08.08 |
| B | OWNERSHIP DETAILS CORRECTED, LOT 1 DPS 66792 | DRY | 23.6.99 |
| A | FOR DESIGNATION | JJM | 4.5.99 |

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 Consulting Engineers

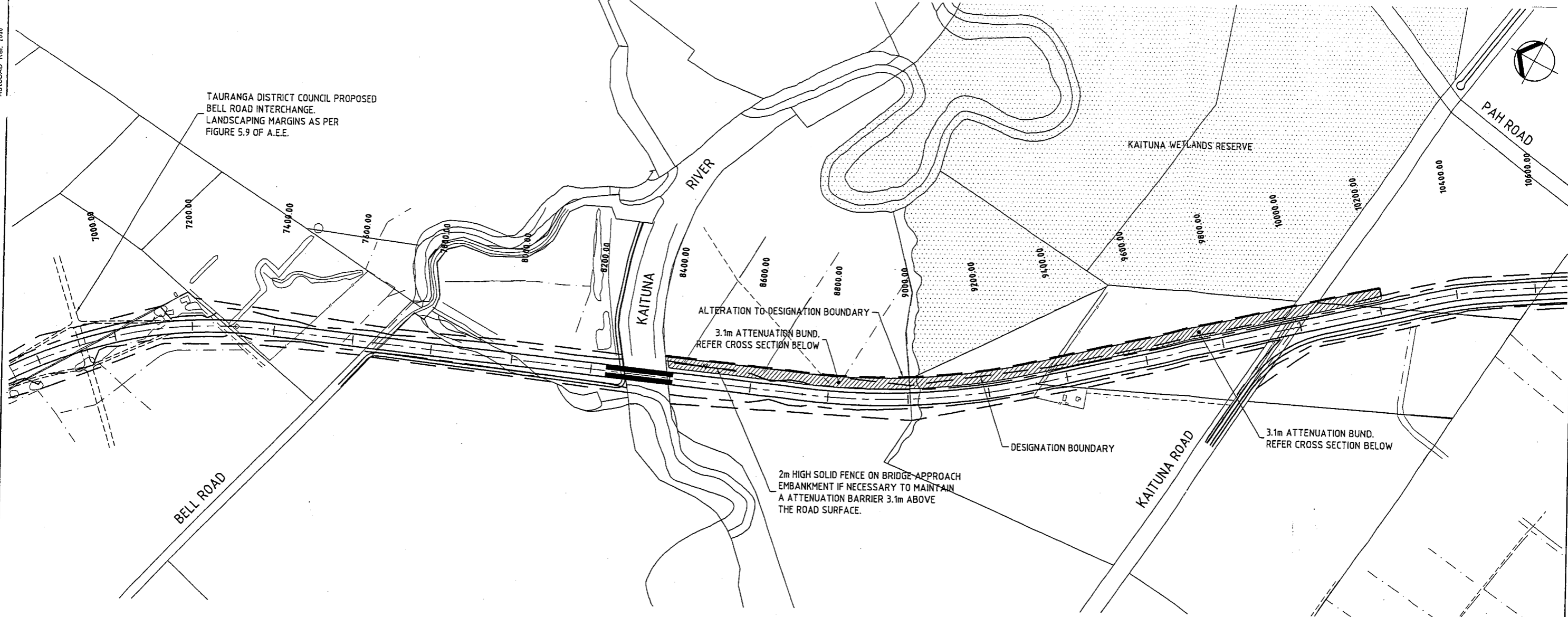
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| Designed | SJF | Approved for Construction | Scale as drawn |
| Drawn | BIL | | 15000/1000 |
| Traced | CAD | Sign | Reduced Drawing |
| Dwg Check | | Date | 10000/2000 |
| Drg Check | SJF | | |



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|------------------------------|--|--------------------|
| TAURANGA EASTERN ARTERIAL | LAND REQUIREMENT PLAN SHEET 6 OF 6 | Job No. 9301240 |
| CIVIL | | Drg No. P018 |

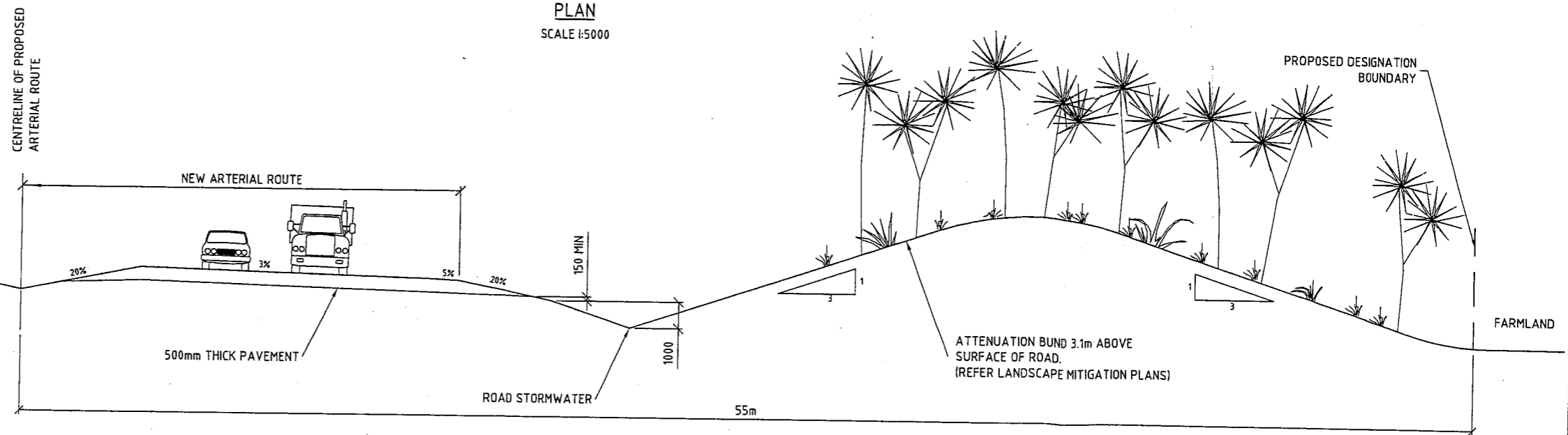
Beca Carter Hollings & Ferner

TAURANGA DISTRICT COUNCIL PROPOSED BELL ROAD INTERCHANGE. LANDSCAPING MARGINS AS PER FIGURE 5.9 OF A.E.E.



LEGEND

- EDGE OF SEAL
- - - EXTENT OF BATTERS
- - - DESIGNATION BOUNDARY
- - - ALTERATION TO DESIGNATION BOUNDARY
- - - CENTRELINE OF ALIGNMENT
- - - EXISTING FENCE
- - - EXISTING RAILWAY TRACK
- - - EXISTING DRAIN
- - - EXISTING TRACK
- - - LEGAL BOUDDARY



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 - DTM DATA AND AERIAL PHOTOGRAPHY SUPPLIED BY NEW ZEALAND AERIAL MAPPING LTD.

Original size A1

| | | | | | |
|-----|-----------------|--------|-----|------|----------|
| B | TITLE CHANGE | B. v.8 | | | |
| A | FOR DESIGNATION | BIL | DRY | DRY | 18.10.01 |
| No. | Revision | By | Chk | Appd | Date |

Drawing Originator:
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Original Scale (A1) 1:100/5000
 Reduced Scale (A3) 1:200/10000

Design Drawn BIL 11.5.00
 Dwg Check*
 Dwg Check*
 * Refer to Revision 1 for Original Signatures

Approved For Construction*
 Date



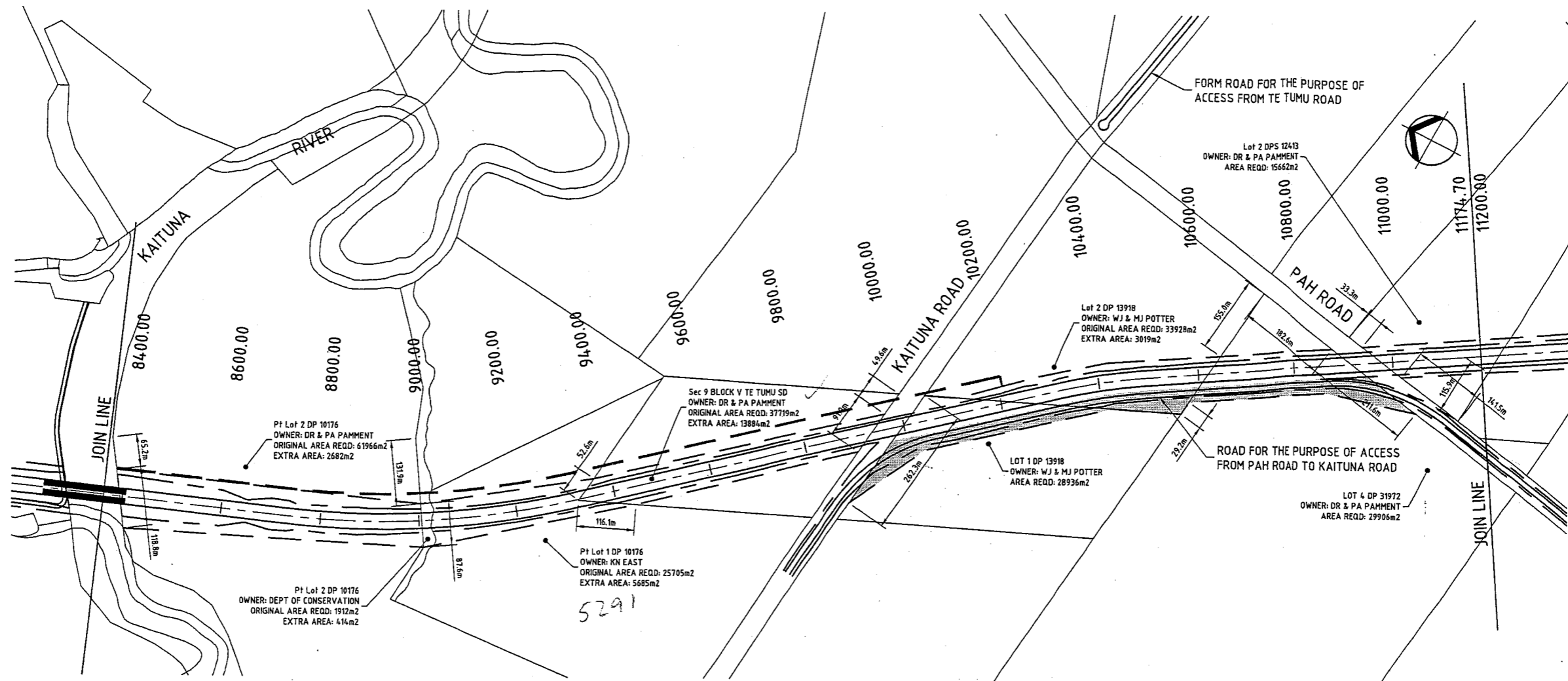
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| | | | |
|--|--|--------------------------|--------|
| Project: TAURANGA EASTERN ARTERIAL | | Discipline: CIVIL | |
| Title: ATTENUATION BARRIER KAITUNA RESERVE | | Drawing No. 9301240/P043 | Rev. B |

DO NOT SCALE

IF IN DOUBT ASK

Beca Carter Hollings & Ferner Ltd



PLAN
SCALE 1:5000

LEGEND

- EDGE OF SEAL
- - - - - EXTENT OF BATTERS
- - - - - DESIGNATION REQUIREMENT
- - - - - ALTERATION TO DESIGNATION REQUIREMENT
- - - - - CENTRELINE OF ALIGNMENT
- LEGAL BOUNDARY
- [Hatched Area] AREA OF LOCAL ROAD TO BE DESIGNATED FOR THE PURPOSE OF ACCESS

NOTES:-

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Original size A1

Originating Office: TAURANGA

| | | | |
|-----|-----------------|---------|---------------|
| B | TITLE CHANGE | B. v. B | 19.10.01 |
| A | FOR INFORMATION | BL | 19.10.01 |
| No. | Revision | By | Chk Appd Date |

Drawing Originator:
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| | |
|----------------------------|----------|
| Original Scale (A1) | 1:5000 |
| Reduced Scale (A3) | 1:10000 |
| Design Drawn | BL |
| Dwg Check* | |
| Approved For Construction* | 19.10.01 |
| Date | |

* Refer to Revision 1 for Original Signatures

Client:

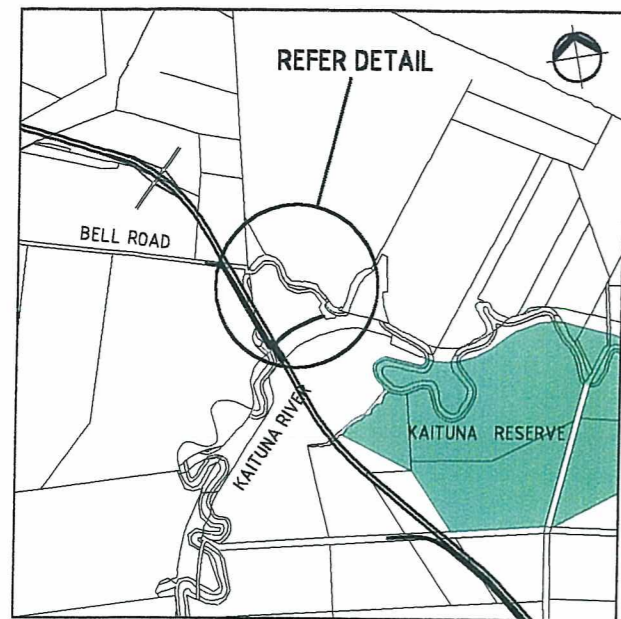
Project:
TAURANGA EASTERN ARTERIAL

| | | | |
|-------------|---|-------------|-------|
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| Drawing No. | 9301240/P044 | Rev. | B |

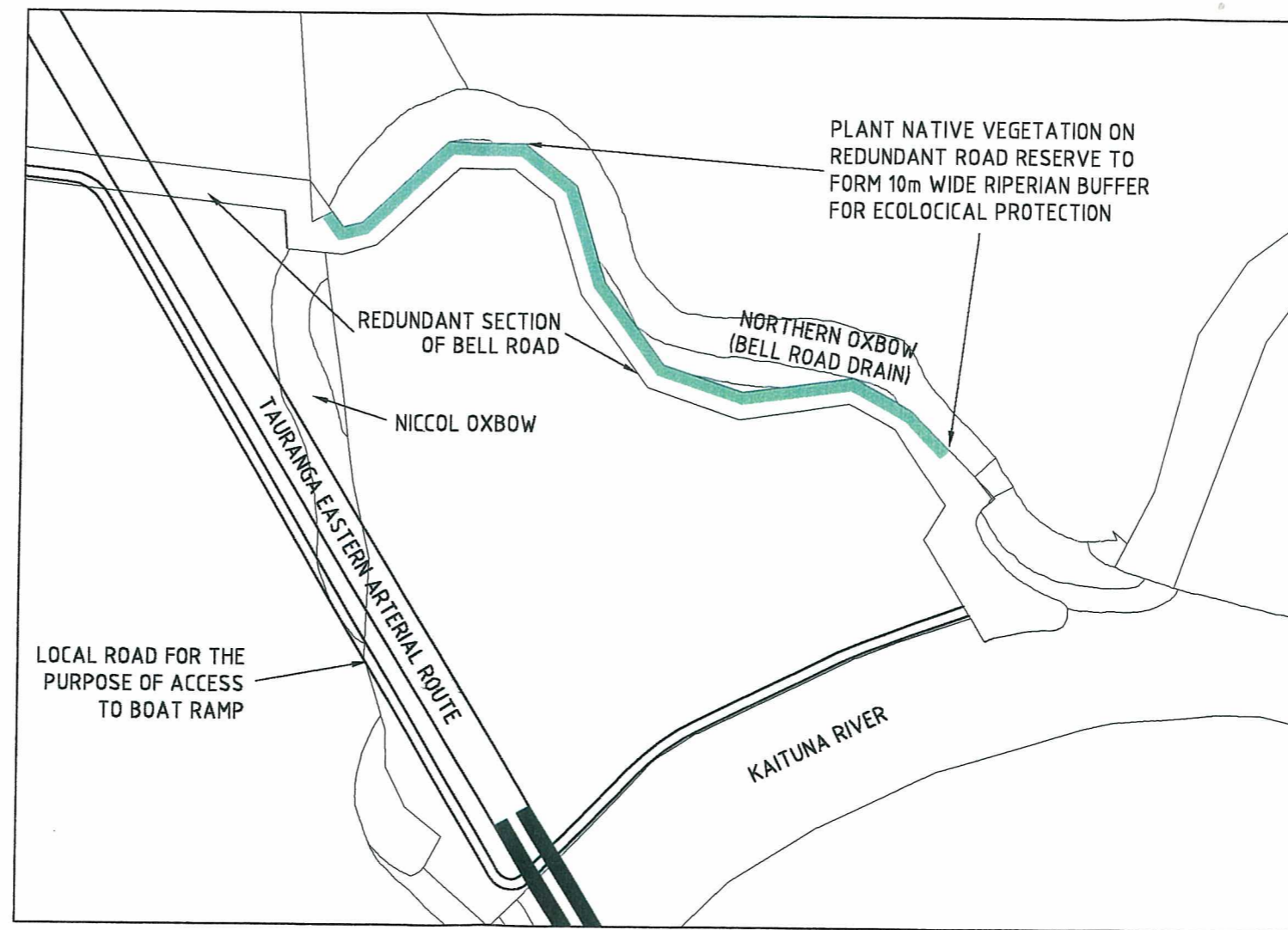
DO NOT SCALE

IF IN DOUBT ASK

AutoCAD Rel. 2008



LOCALITY PLAN
SCALE 1:25000



SITE DETAIL
SCALE 1:2500

Original size A1

Originating Office: TAURANGA

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| No. | Revision | By | Chk | App'd | Date |
|-----|-----------------|----|-----|-------|------|
| A | FOR INFORMATION | | | | |

Drawing Originator:
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| | | |
|---|-----------------|----------------------------|
| Original Scale (A1) 1:25000 | Design Drawn | Approved For Construction* |
| Reduced Scale (A3) 1:50000 | Dwg Check* | Date |
| | Dwg Check* | |
| * Refer to Revision 1 for Original Signatures | | |

Client: **TRANSIT**
 NEW ZEALAND
 A H A R A U A T E A H A

Project: **TAURANGA EASTERN ARTERIAL**

Title: **BELL ROAD DRAIN RIPERIAN BUFFER**

| | |
|------------------------------------|------------------|
| Discipline CIVIL | Rev. A |
| Drawing No. 9301240/P048 | |

DO NOT SCALE

IF IN DOUBT ASK.

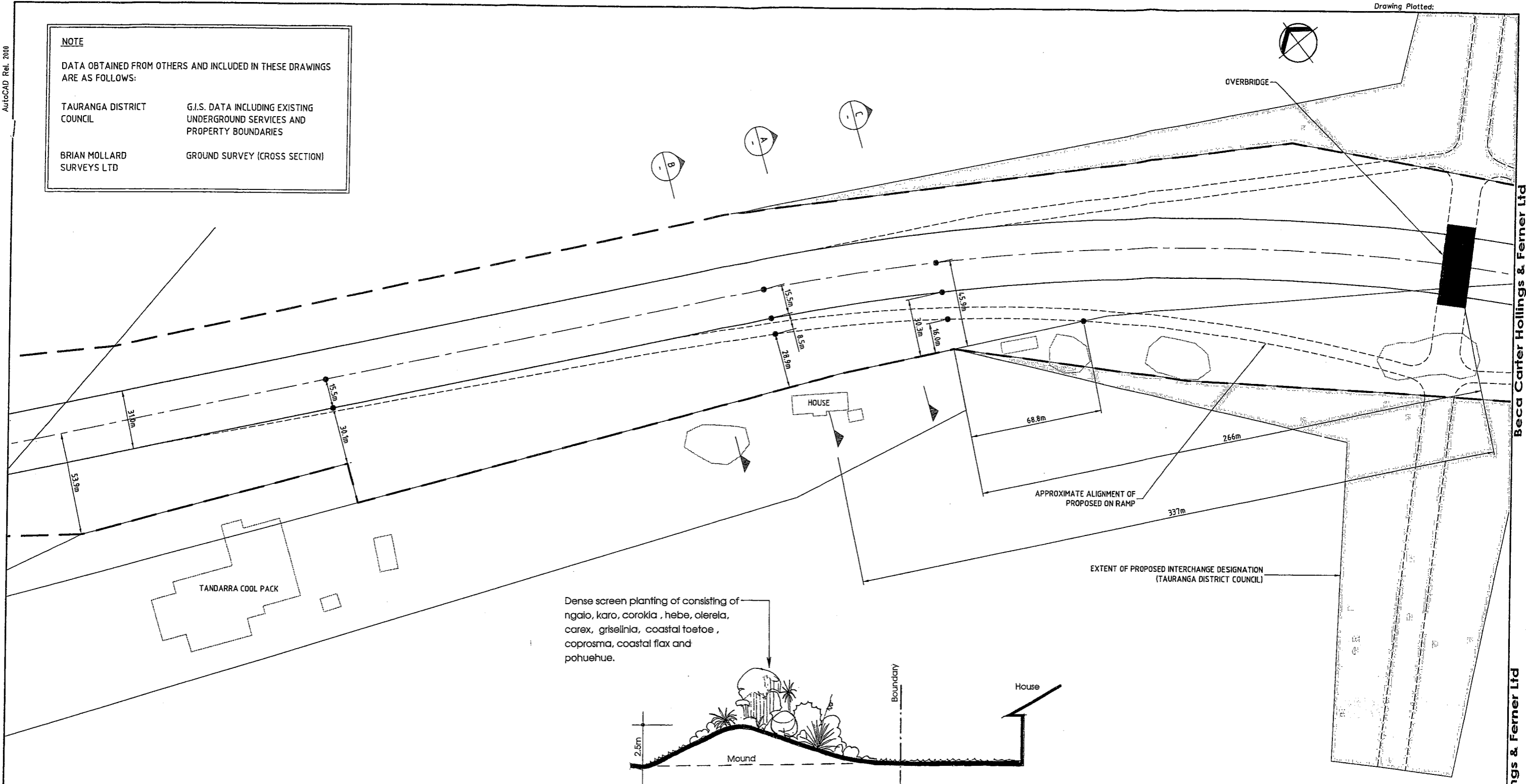
Beca Carter Hollings & Ferner Ltd

Document No. P:\9301240\CAD\1240P048

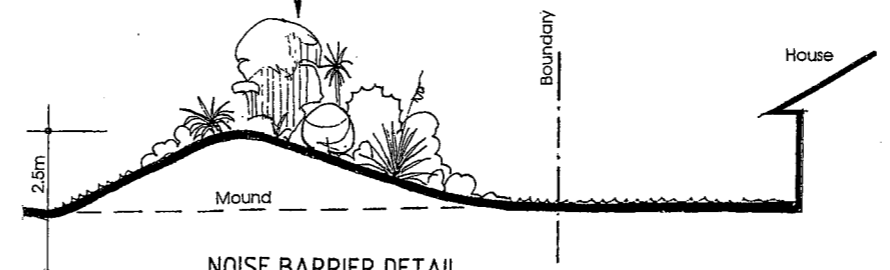
AutoCAD Rel. 2000

NOTE
 DATA OBTAINED FROM OTHERS AND INCLUDED IN THESE DRAWINGS ARE AS FOLLOWS:

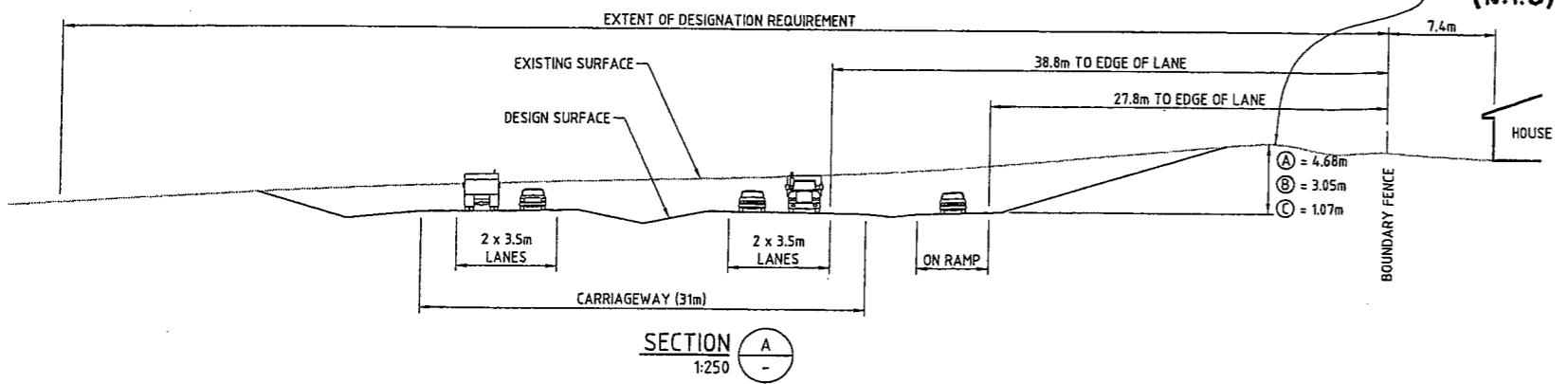
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|---------------------------|---|
| TAURANGA DISTRICT COUNCIL | G.I.S. DATA INCLUDING EXISTING UNDERGROUND SERVICES AND PROPERTY BOUNDARIES |
| BRIAN MOLLARD SURVEYS LTD | GROUND SURVEY (CROSS SECTION) |



Dense screen planting of consisting of ngaio, karo, corokia, hebe, olerela, carex, griselnia, coastal toetoe, coprosma, coastal flax and pohuehue.



NOISE BARRIER DETAIL (N.T.S)



SECTION A-A 1:250

LEGEND

- EDGE OF SEAL
- - - - - TNZ DESIGNATION REQUIREMENT
- - - - - CENTRELINE OF T.E.A. ALIGNMENT
- - - - - POSSIBLE TDC OFF-RAMPS
- PEGS POSITIONED BY BCHF (APPROX)
- TDC DESIGNATION AREA

Original size A1

Originating Office: TAURANGA

| No. | Revision | By | Chk | Appd | Date |
|-----|-----------------|----|-----|------|------|
| A | FOR INFORMATION | | | | |

Drawing Originator:
Beca Carter Hollings & Ferner Ltd
 Consulting Engineers
 Auckland, Wellington, Christchurch, Hamilton, New Plymouth, Tauranga, Melbourne, Sydney, Singapore, Port Moresby, Jakarta, Kuala Lumpur.

| | | |
|---------------------|--------------|---------------------------|
| Original Scale (A1) | Design Drawn | Approved For Construction |
| 1:1000/250 | BIL 29.8.01 | |
| Reduced Scale (A3) | Dwg Check* | Date |
| 1:2000/500 | Dwg Check* | |

* Refer to Revision 1 for Original Signatures

Client: **TRANSIT NEW ZEALAND**

Project: **TAURANGA EASTERN ARTERIAL**

Title: **NOISE & LANDSCAPING MITIGATION CRESSY PROPERTY, BELL RD**

| | |
|-------------|--------------|
| Discipline | CIVIL |
| Drawing No. | 9301240/P049 |
| Rev. | A |

DO NOT SCALE

IF IN DOUBT ASK.

Beca Carter Hollings & Ferner Ltd

Document No. P.19319301240/CA01240P049



Lot 1 DPS 36594
OWNER: TRANSIT NEW ZEALAND
TOTAL AREA REQD: 11859m2

RESIDUAL AREA: 21297m2

RESIDUAL AREA: 14335m2

B26 ML 7467
OWNER: MG & A SAUNDERS
AREA REQD: 20822m2

RESIDUAL AREA: 6948m2

RESIDUAL AREA: 48811m2

TE TUMU ROAD

MAKETU ROAD

EC.M.T. RAILWAY

STATE HIGHWAY 2

NOTE:
1. ALL ARFAS AND MEASUREMENTS SUBJECT TO SURVEY.

Original size A1

Originating Office: TAURANGA

| | | | | | |
|-----|---|-----|-----|----------|------|
| C | PROVISION OF ACCESS TO SAUNDERS PROPERTY FROM MAKETU RD | BIL | DRY | 31.7.01 | |
| B | OWNERSHIP OF Lot 1 DPS 36594 UPDATED | BIL | DRY | 31.10.00 | |
| A | FOR INFORMATION | BIL | DRY | 31.10.00 | |
| No. | Revision | By | Chk | Appd | Date |

Drawing Originator:
Beca Carter Hollings & Ferner Ltd
 Consulting Engineers
 Auckland, Wellington, Christchurch, Hamilton, New Plymouth, Tauranga,
 Melbourne, Sydney, Singapore, Port Moresby, Jakarta, Kuala Lumpur.

| | | | | |
|---------------------|------------|-----|---------|----------------------------|
| Original Scale (A1) | Design | BIL | 3.11.00 | Approved For Construction* |
| 1:1000 | Drawn | BIL | 3.11.00 | |
| Reduced Scale (A3) | Dwg Check* | | | |
| 1:2000 | Dwg Check* | | | Date |

* Refer to Revision 1 for Original Signatures

Client:



Project:

TAURANGA
EASTERN
ARTERIAL

Title:

LAND REQUIREMENT
SAUNDERS AND TNZ
(EX SPRATT) PROPERTIES

Discipline

CIVIL

Drawing No.

9301240/SK10

Rev.

C

DO NOT SCALE

IF IN DOUBT ASK

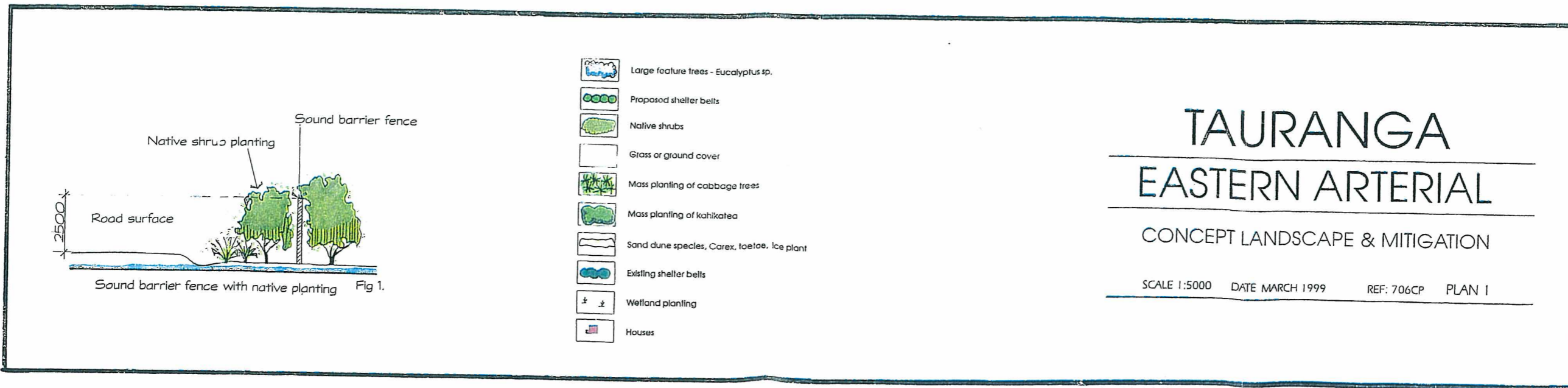
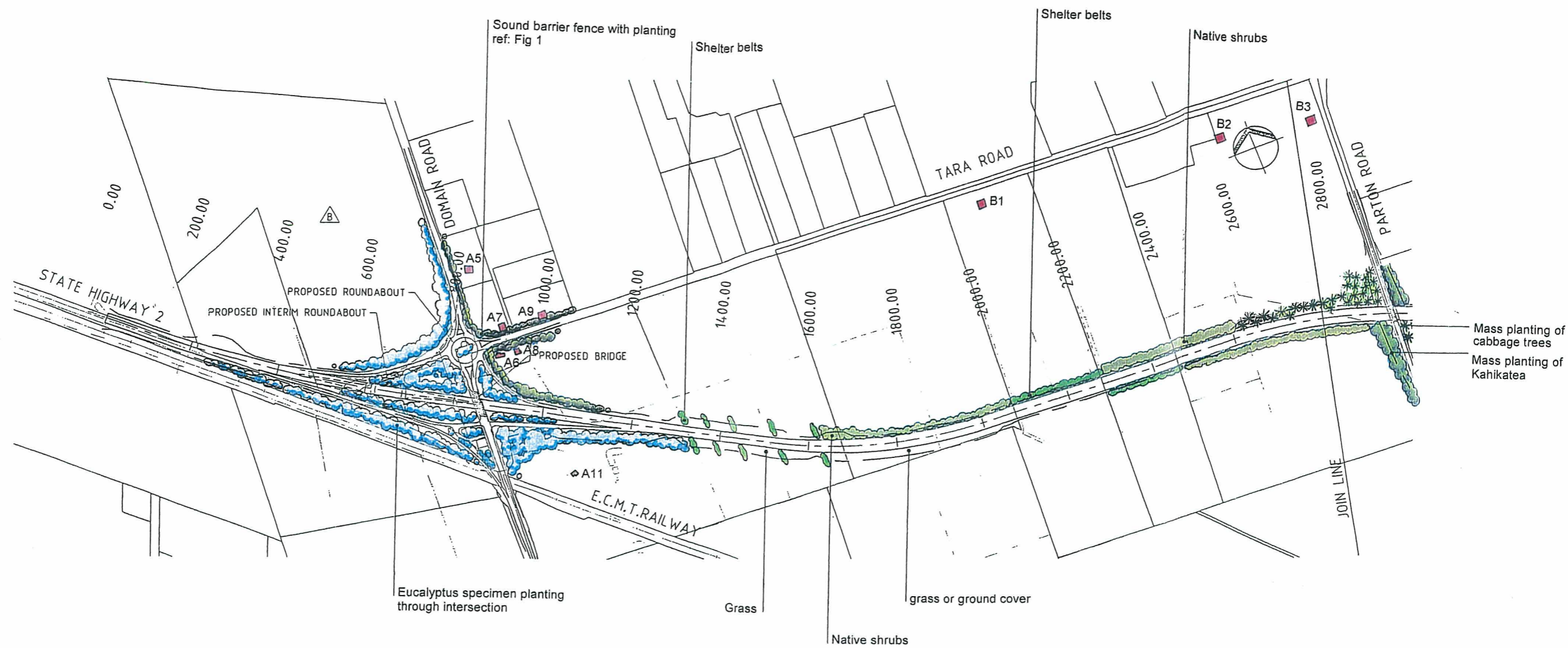


FIGURE 5.7

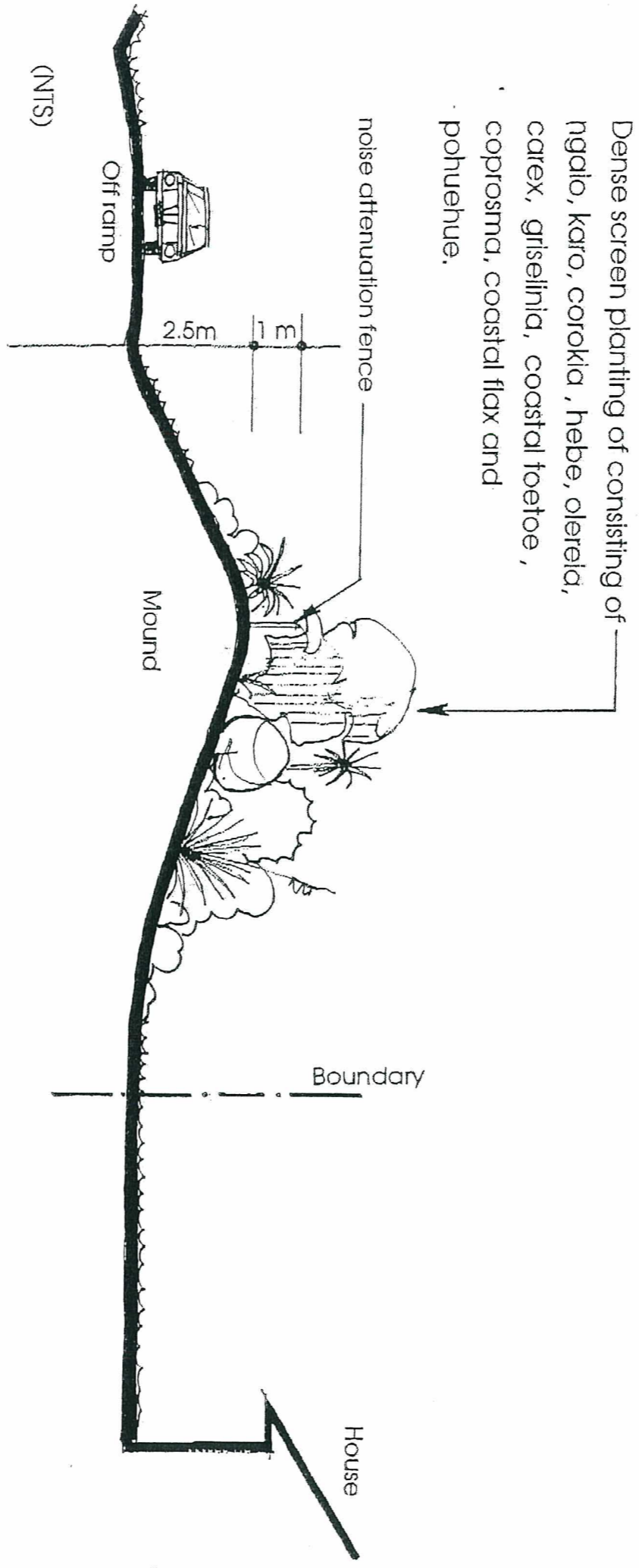
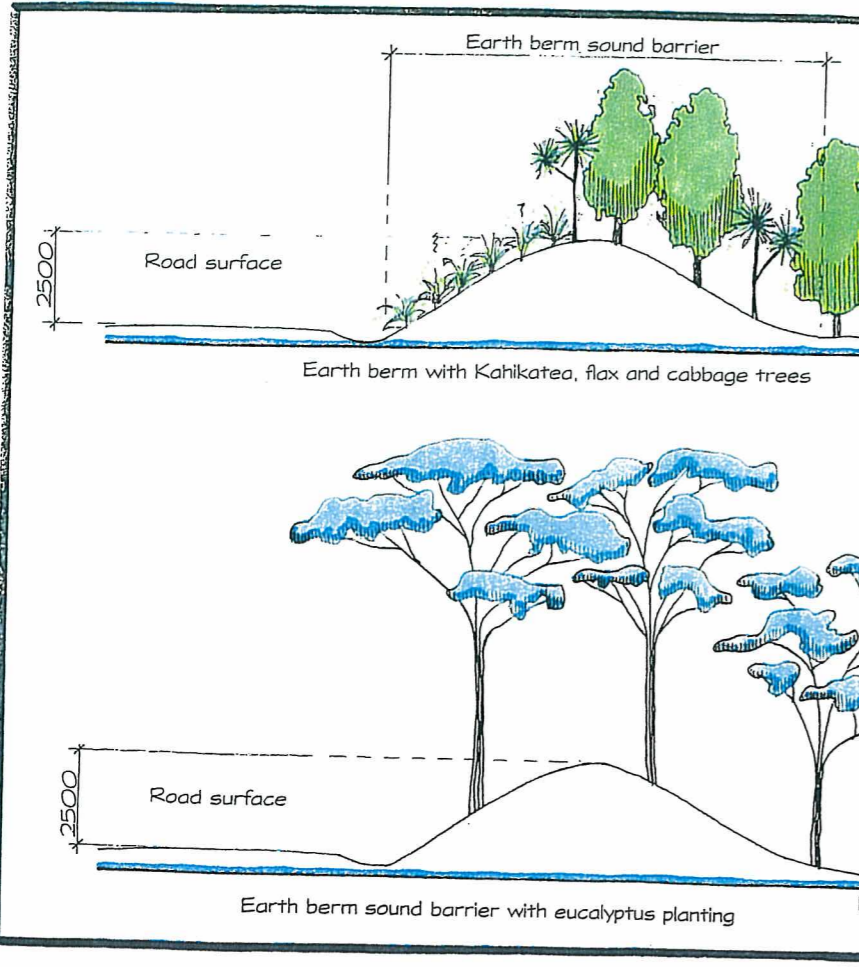
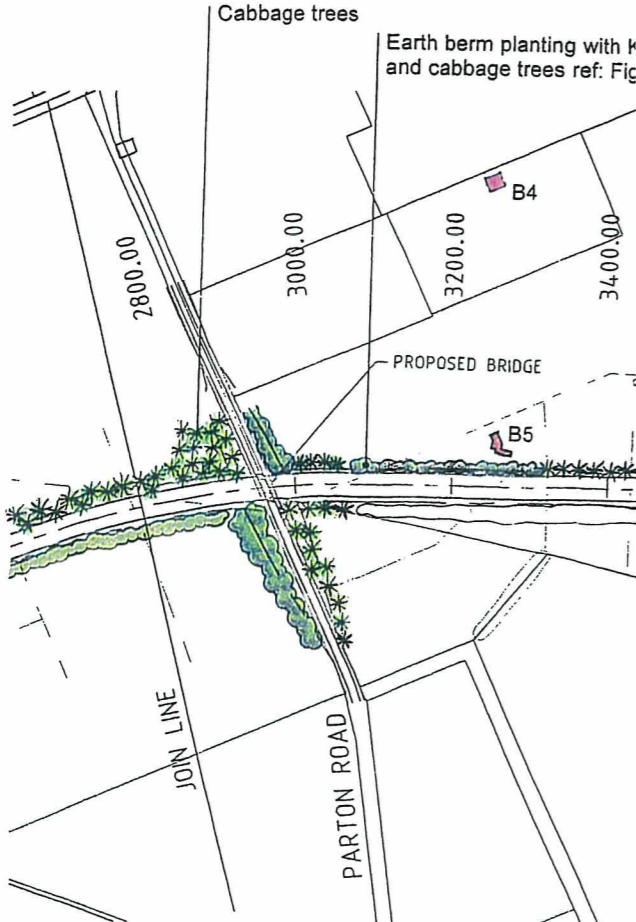
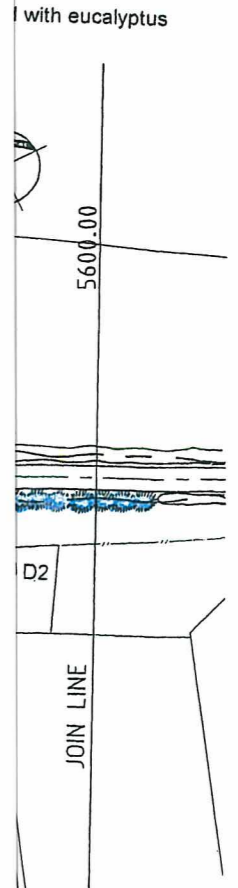


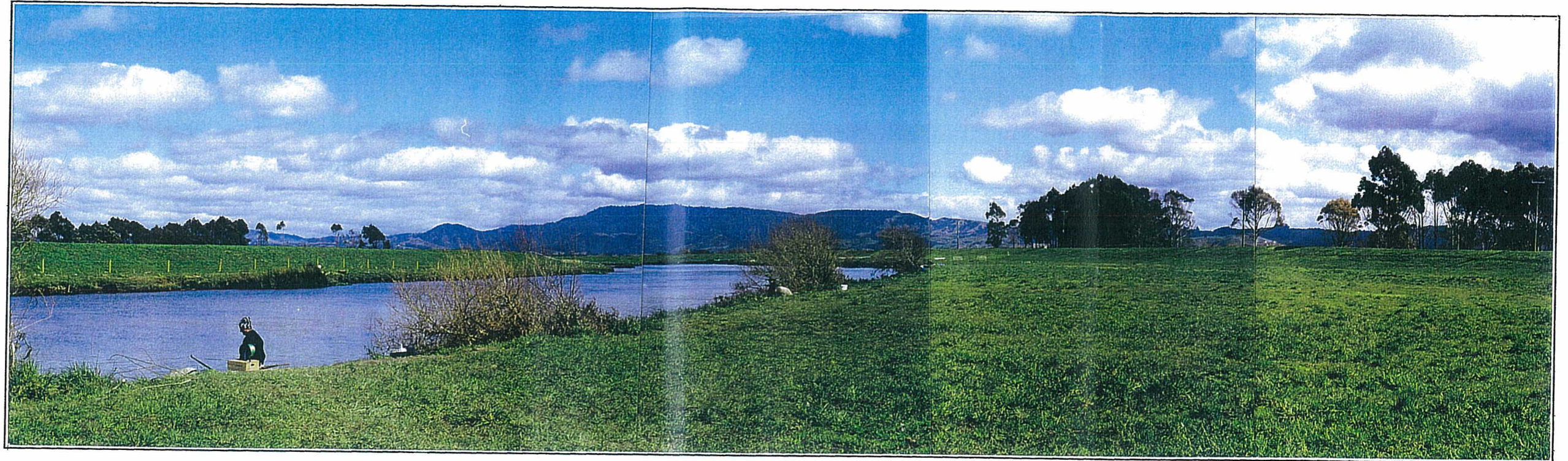
FIGURE A. LANDSCAPE MITIGATION
Yellow Cressey - 339 Bell Road



ANGA
ARTERIAL
CAPE & MITIGATION
REF: 706CP PLAN 2
FIGURE 5.8

APPENDIX C

As Existing



With the proposed Eastern Arterial



Viewpoint 3
Boat ramp on Kaituna River looking west

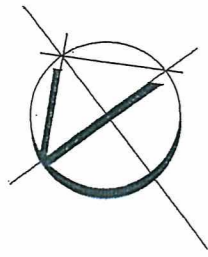


Fig 1. Earth berm with Kahikatea, flax and cabbage trees

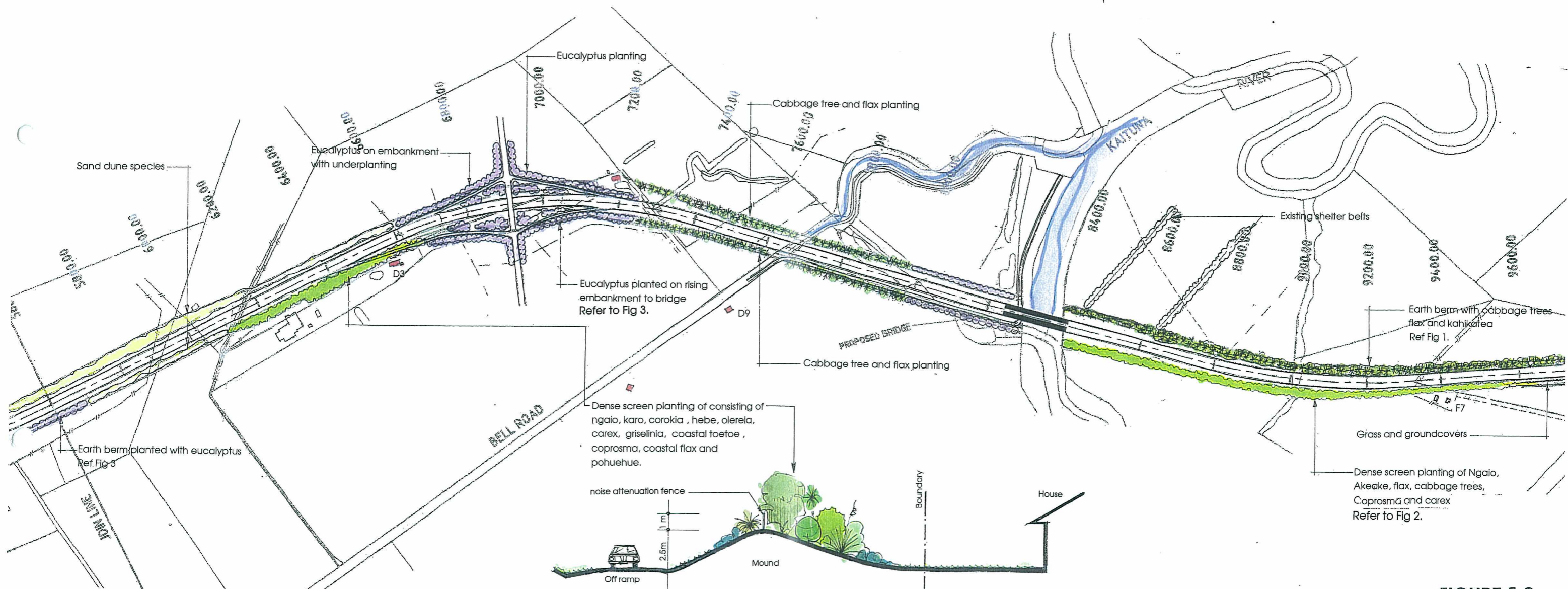
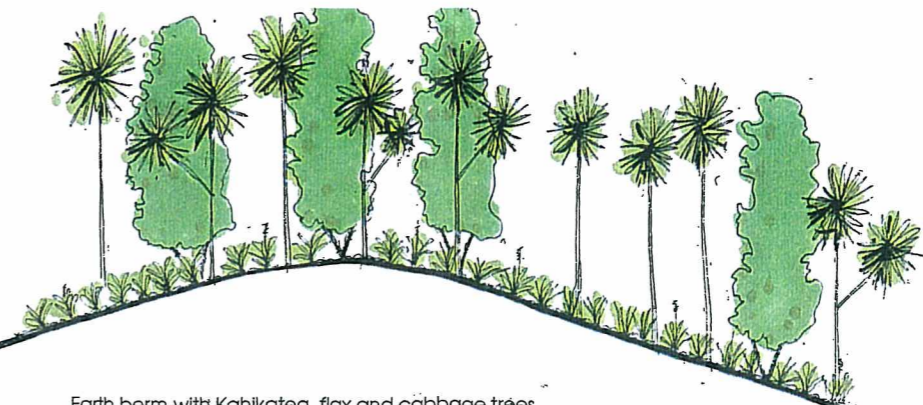


Fig 2. (NTS)

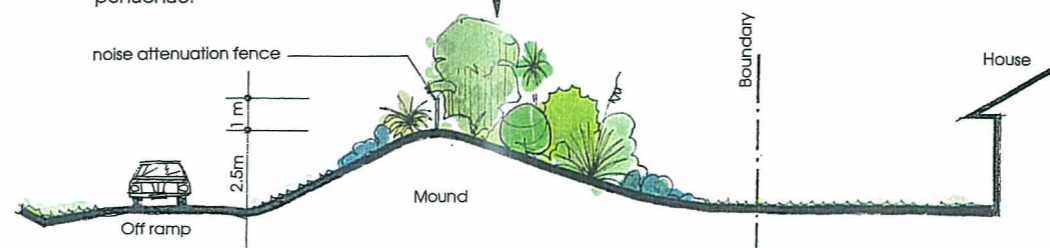


FIGURE 5.9

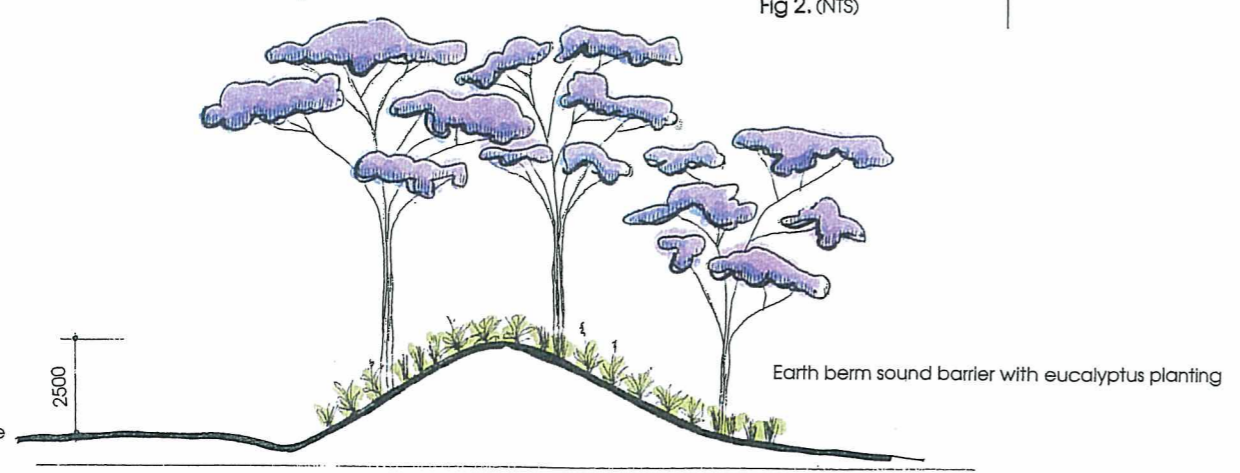


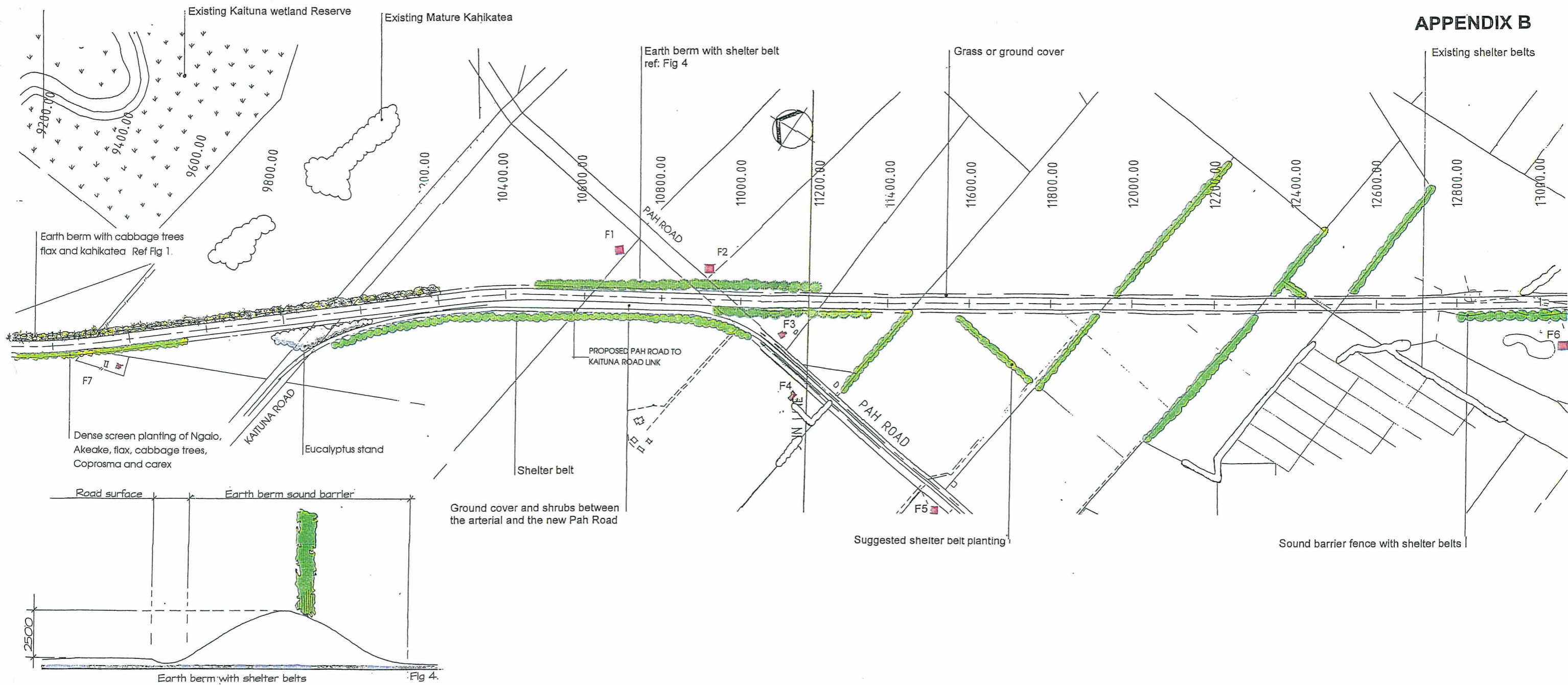
Fig 3.

| | |
|--|---|
| | Cabbage tree, flax and kahikatea planting |
| | Sand dune species |
| | Eucalyptus planting |
| | Houses |
| | Cabbage tree and flax planting |
| | Existing shelterbelts |
| | Screen planting |
| | Grass and groundcovers |

TAURANGA EASTERN ARTERIAL

CONCEPT AND LANDSCAPE MITIGATION

AMENDED
SCALE 1:5000 DATE OCTOBER 2001 REF: 706CP PLAN 3



| | |
|--|---|
| | Large feature trees - Eucalyptus sp. |
| | Proposed shelter belts |
| | Native shrubs |
| | Grass or ground cover |
| | Mass planting of cabbage trees |
| | Mass planting of kahikatea |
| | Sand dune species, Carex, toetoe, ice plant |
| | Existing shelter belts |
| | Wetland planting |
| | Houses |
| | Screen planting (Ref Fig 2, Plan 3) |

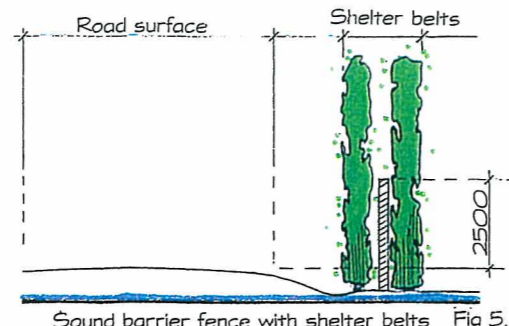
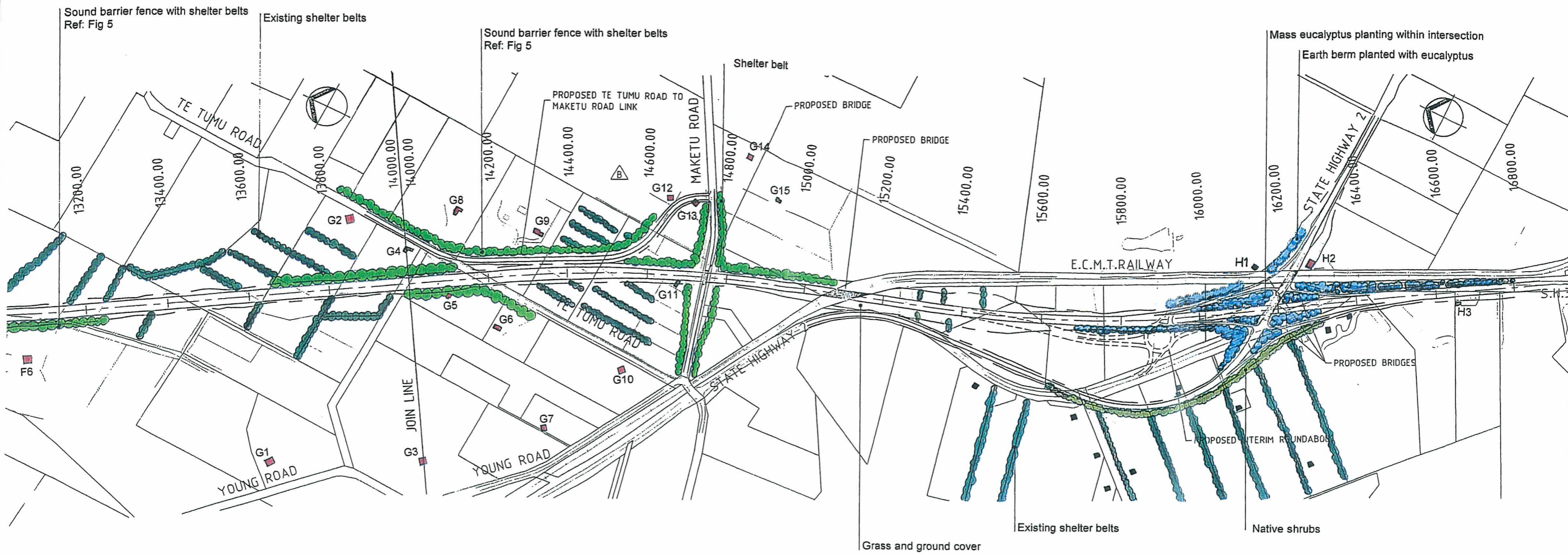
TAURANGA EASTERN ARTERIAL

CONCEPT LANDSCAPE & MITIGATION











AMENDED

SCALE 1:5000 DATE OCTOBER 2001 REF: 706CP PLAN 4

FIGURE 5.10



Sound barrier fence with shelter belts Fig 5.

-  Large feature trees - Eucalyptus sp.
-  Proposed shelter belts
-  Native shrubs
-  Grass or ground cover
-  Mass planting of cabbage trees
-  Mass planting of kahikatea
-  Sand dune species, Carex, toetoe, Ice plant
-  Existing shelter belts
-  Wetland planting
-  Houses

TAURANGA EASTERN ARTERIAL

CONCEPT LANDSCAPE & MITIGATION

SCALE 1:5000 DATE MARCH 1999 REF: 706CP PLAN 5

FIGURE 5.11

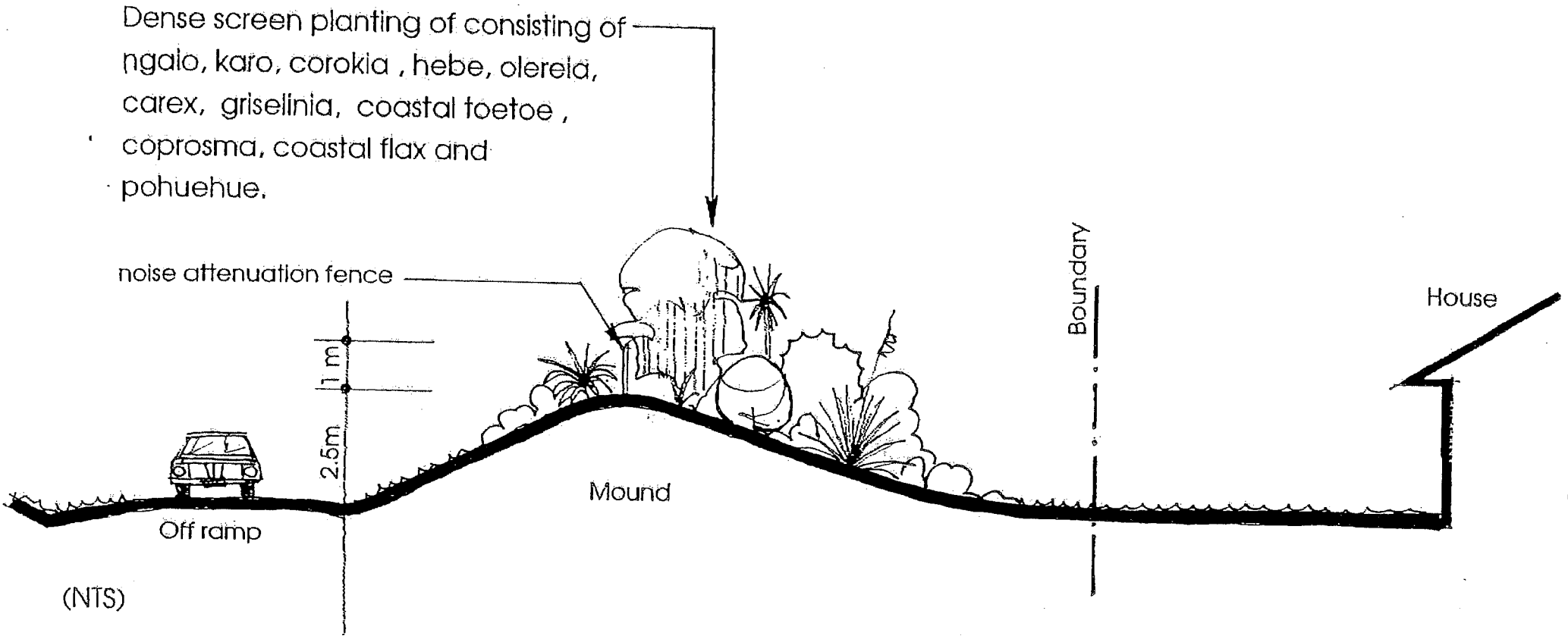
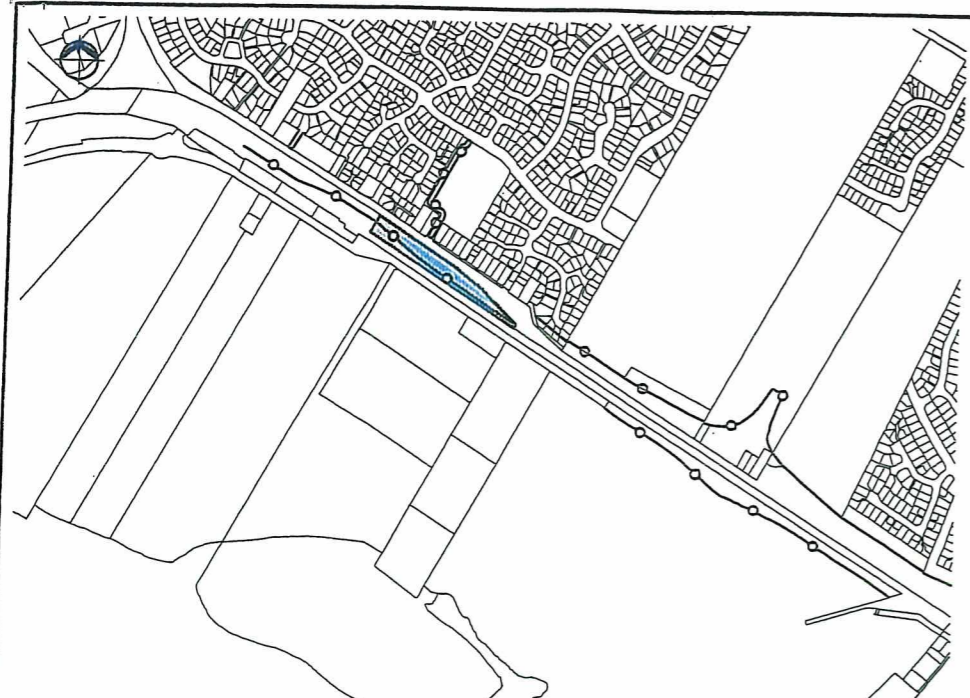


FIGURE A. LANDSCAPE MITIGATION
Stella Cressey - 339 Bell Road



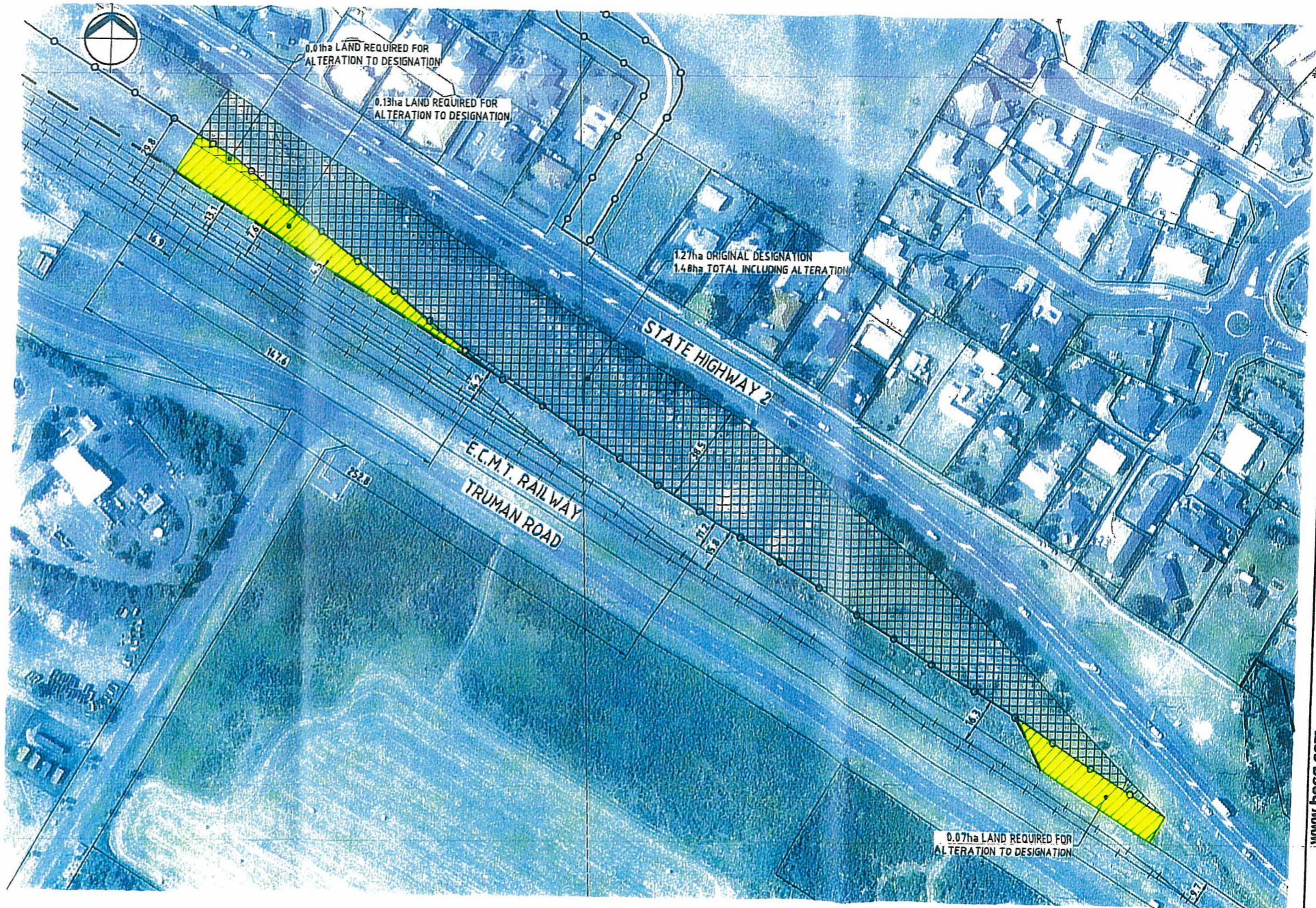
LOCALITY DIAGRAM
SCALE 1:10000

NOTE
LAND REQUIREMENTS ARE APPROXIMATE ONLY AND ARE SUBJECT TO DETAILED DESIGN AND FINAL LEGALISATION SURVEY

LEGEND

- DESIGNATION BOUNDARY
- EXISTING RAILWAY CENTRELINE
- NEW DESIGNATION BOUNDARY
- AFFECTED PROPERTY
- LAND TO BE ACQUIRED FOR MOTORWAY
- LAND ALREADY ACQUIRED
- LAND REQUIRED FOR ALTERATION TO DESIGNATION

APPROVED
RC14693
01 SEP 2009
PLAN



PROPOSED BOUNDARY DETAILS
SCALE 1:1000

| | | | | | |
|-----|-----------------------------------|-----|---------|----------|----------|
| G | AMENDED TO REFLECT NZTA PURCHASES | BIL | REVISED | 06.07.09 | |
| F | LEGEND AMENDED | JH | TVH | TVH | 16.03.09 |
| E | LAND REQUIREMENTS AMENDED | RN | TVH | TVH | 03.02.09 |
| D | AERIALS & BOUNDARY'S UPDATED | AWS | TVH | TVH | 31.07.08 |
| No. | Revision | By | Chk | Appd | Date |

Drawing Originator:

Beca Engineers • Planners • Managers

| | | | | | |
|---------------------|--------|---------|----|----------|----------------------------|
| Original Scale (A1) | Design | Drawn | MD | 20.09.07 | Approved For Construction* |
| AS SHOWN | | | | | |
| Reduced Scale (A3) | Design | Checked | | | |
| HALF SHOWN | | | | | |

* Refer to Revision 1 for Original Signature

Client: NZ TRANSPORT AGENCY
WAKA KOTAHU

Project: TAURANGA EASTERN MOTORWAY

Title: DESIGNATION PLAN
PT 2N010B PAPAMO A
S021734

FOR INFORMATION NOT FOR CONSTRUCTION

Discipline: CIVIL

Drawing No. 3932036-G012

Rev. G

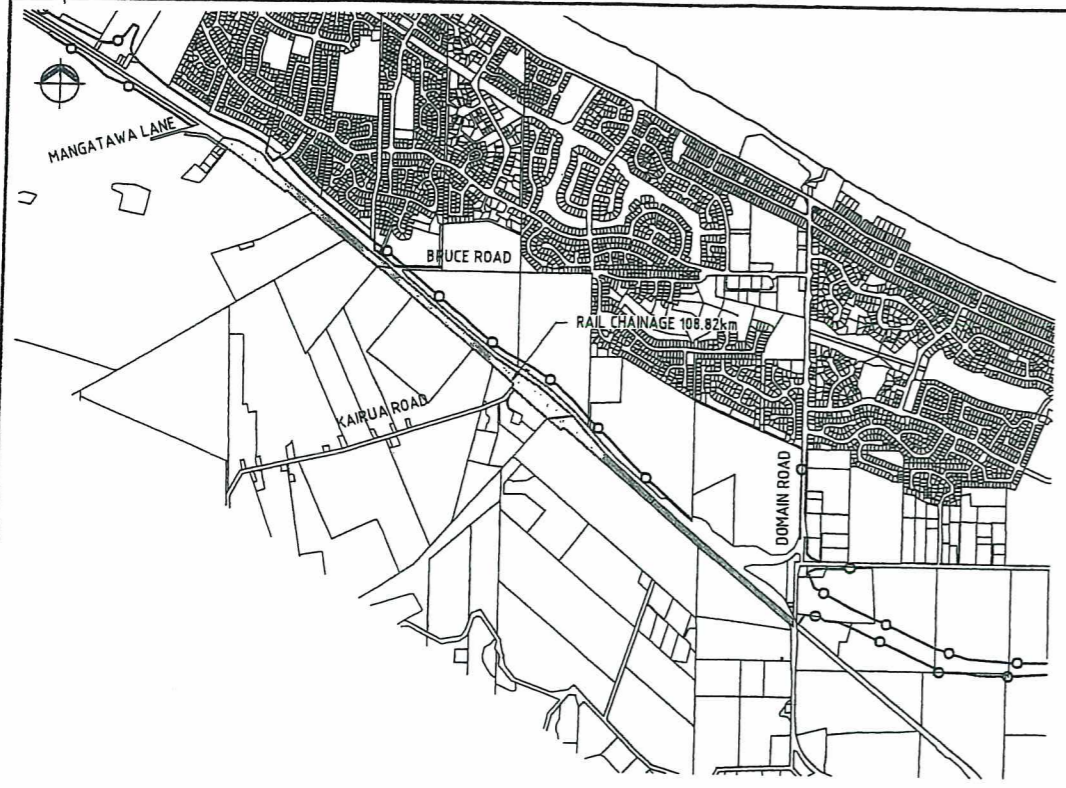
DO NOT SCALE

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Document No. 2036012.dwg



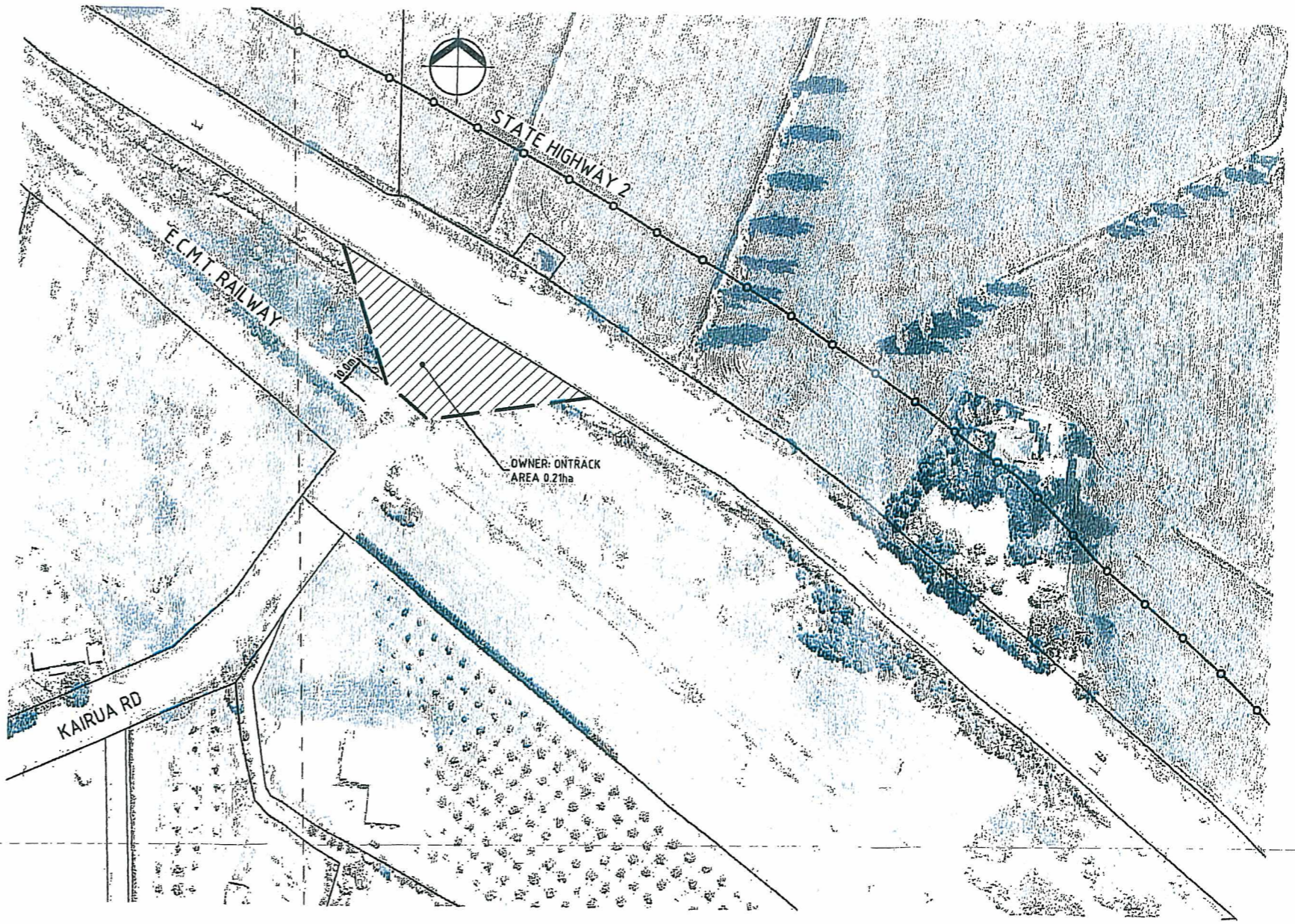
LOCALITY DIAGRAM
SCALE 1:20000

NOTE
LAND REQUIREMENTS ARE APPROXIMATE ONLY AND ARE SUBJECT TO DETAILED DESIGN AND FINAL LEGALISATION SURVEY

LEGEND

- DESIGNATION BOUNDARY
- EXISTING RAILWAY CENTRELINE
- NEW DESIGNATION BOUNDARY
- AFFECTED PROPERTY
- AREA REQUIRED FOR MOTORWAY DESIGNATION
- LAND REQUIRED FOR ALTERATION TO DESIGNATION

APPROVED
RC14693
01 SEP 2009
PLAN



PROPOSED BOUNDARY DETAILS
SCALE 1:1000 @ A1

| No. | Revision | By | Chk | Appd | Date |
|-----|------------------------------|-----|-----|------|----------|
| C | LAND REQUIREMENTS AMENDED | JH | | | 16.03.09 |
| B | AERIALS & BOUNDARY'S UPDATED | AWS | GJL | TVH | 07.08.08 |
| A | FOR INFORMATION | AWS | TVH | TVH | 19.03.08 |

Drawing Originator:
BECA Engineers • Planners • Managers

| | | | |
|----------------------------------|---------------------------------|----------|------------------------------------|
| Original Scale (A1) AS SHOWN | Design Drawn Dwg Verifier | MD HD | Approved For Construction* Date |
| Reduced Scale (A3) HALF SHOWN | Dwg Check | | |

* Refer to Revision 1 for Original Signature

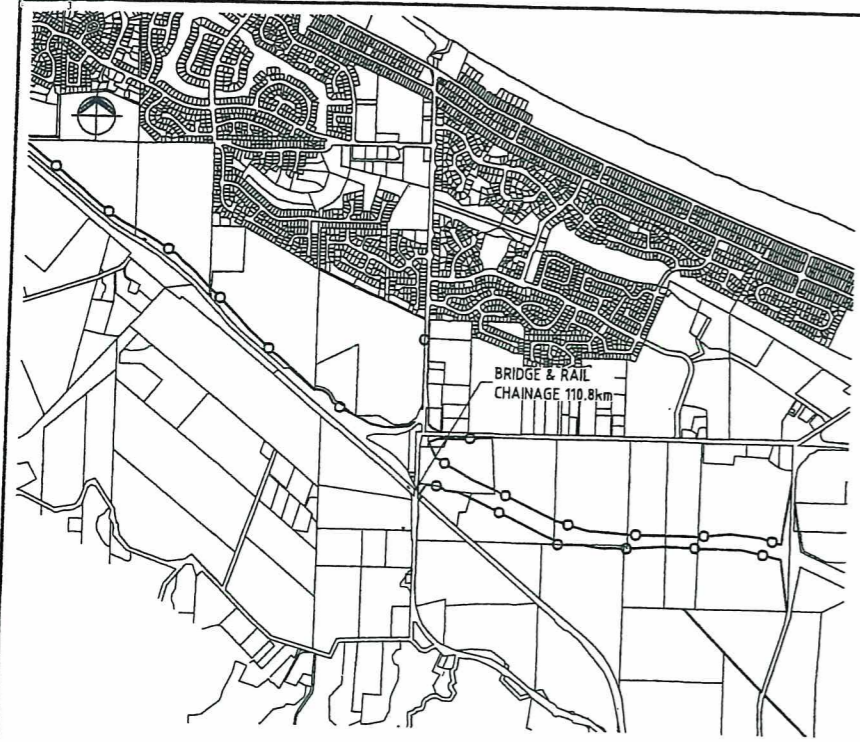
Client: NZ TRANSPORT AGENCY
WAKA KOTAHU

Project: **TAURANGA EASTERN MOTORWAY**

Title: **LAND REQUIREMENT PLAN
RAILWAY RESERVE - KAIRUA RD
ONTRACK**

**FOR INFORMATION
NOT FOR CONSTRUCTION**

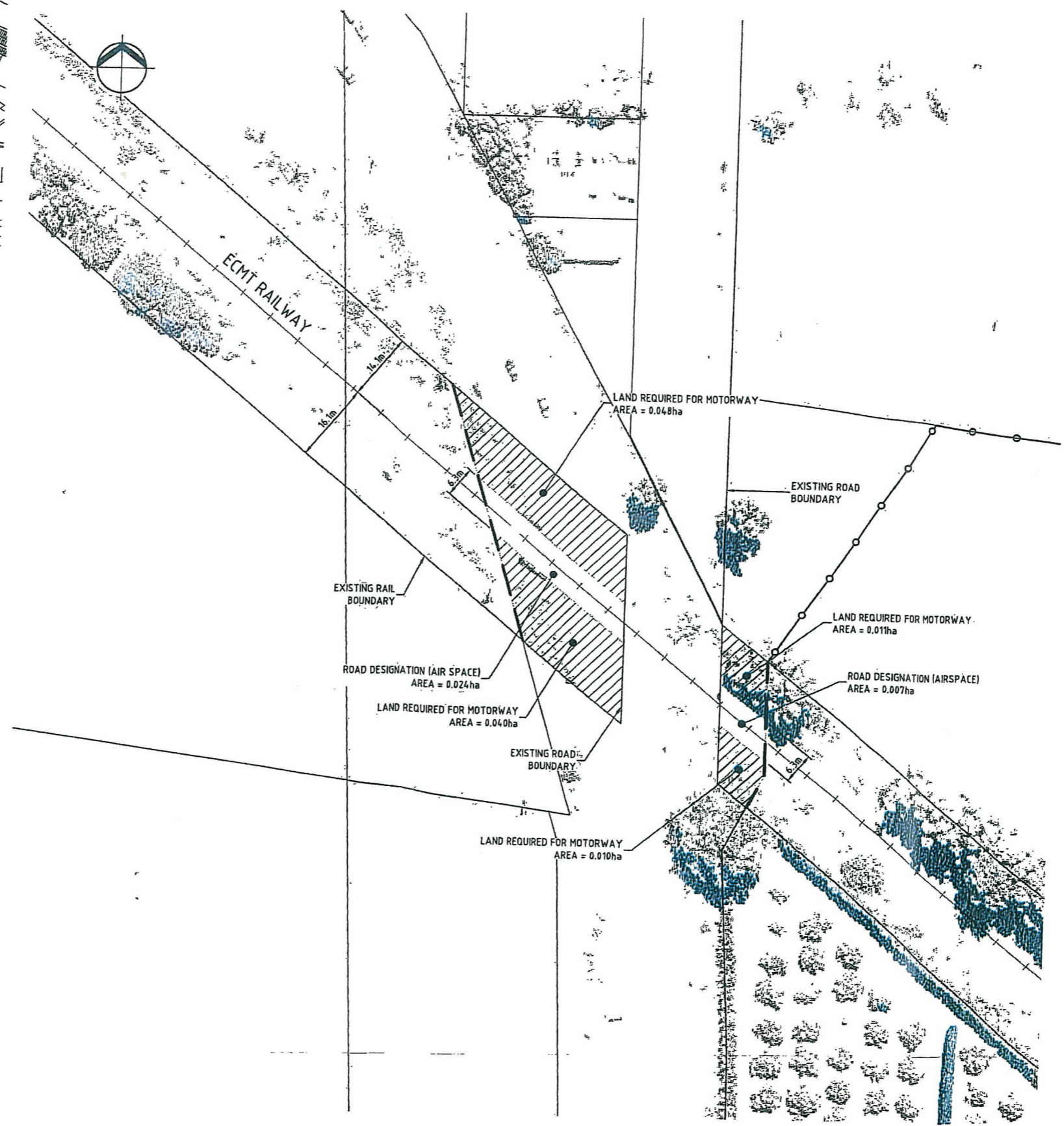
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|-------------|--------------|
| Discipline | CIVIL |
| Drawing No. | 3932036-G034 |
| Rev. | C |



LOCALITY DIAGRAM
SCALE 1:20000 @ A1

LEGEND

- DEED OF GRANT EXTENT
- AREA REQUIRED FOR ROAD DESIGNATION (AIRSPACE)



PROPOSED BOUNDARY DETAILS
SCALE 1:500 @ A1

APPROVED
R014693
01 SEP 2009
PLAN

| | | | |
|-----|------------------------------|---------|---------------|
| C | AMENDED AS PER ONTRACK INPUT | BIL | 03.07.09 |
| B | LEGEND AMENDED | AWS TVH | 15.04.09 |
| A | FOR INFORMATION | RN WL | 11.04.09 |
| No. | Revision | By | Chk Appd Date |

Drawing Originator:

BECA Engineers • Planners • Managers

| | | | |
|---------------------------------|--------------------|----------|--|
| Original Scale (A1) AS SHOWN | Design Drawn RN | 02.03.08 | Approved For Construction* |
| Reduced Scale (A3) 1/2 SHOWN | Dwg Verifier | | Date |
| | Dwg Check | | * Refer to Revision 1 for Original Signature |

Client:

NZ TRANSPORT AGENCY
WAKA KOTAHU

Project:

TAURANGA EASTERN MOTORWAY

Title:

**LAND REQUIREMENT PLAN
ACQUISITION OF AIRSPACE &
D.O.G AT ECMT DOMAIN ROAD**

| | |
|-------------|--------------|
| Discipline | CIVIL |
| Drawing No. | 3932036-G128 |
| Rev. | C |



2406*

6 May 2009

Western Bay of Plenty District Council Customer and Business Services

Application for Alteration of Designation – Non-Notified - NZ TRANSPORT AGENCY

Delegated Authority P/3007/1 P/1526/550 P/1526/436 P/1526/25 P/1526/22 P/1526/26 P/1519/5/2

Recommendation:

THAT pursuant to Section 181 and 182 of the Resource Management Act 1991, the New Zealand Transport Agency (formally Transit New Zealand) notice of requirement and plans submitted by Beca, dated 5 November 2008 for alteration of Operative Western Bay of Plenty District Plan designation D179 regarding 'Proposed State Highway between Domain Road, Papamoa and State Highway 33 Intersection known as Eastern Arterial', to include additional land at Te Tumu Road legally described as Lot 1 DPS 322309, Pt B26 Pukainga Taru & Sec 7 SO 311804 and Lot 2 DPS 66941; to remove land from the designation at 847 State Highway 2, Te Puke legally described as Pt Sec 1 Blk III Maketu SD; and include reference to a walkway/cycleway between the Papamoa East Interchange and the proposed Rangiuru Business Park is accepted.

Reasons:

The alteration will result in an overall minor change to the effects associated with the proposal as it involves minor alteration to the boundaries and purpose of the designation.

The written approval has been obtained from the directly affected property owners, in accordance with Section 181(3) of the Resource Management Act 1991.

The requirements of Section 182 of the Resource Management Act 1991 have been met.

The alteration will not be contrary to the objectives and policies of the Operative District Plan and the purpose and principles of the Resource Management Act 1991.

There are no principle issues in contention.

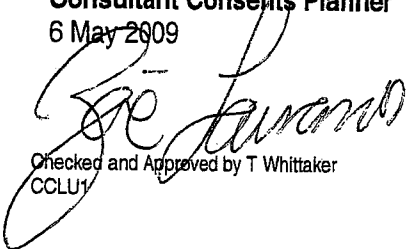
THAT pursuant to Section 37 of the Resource Management Act 1991, the processing time for this application is extended from 20 working days to 40 working days.

Reasons:

Council notes that due to staff illness, managerial signoff and workload the alteration of designation was unable to be processed within the statutory timeframes which have therefore been extended under section 37 of the Resource Management Act 1991.

Anna Gardiner
Consultant Consents Planner
6 May 2009

PP.

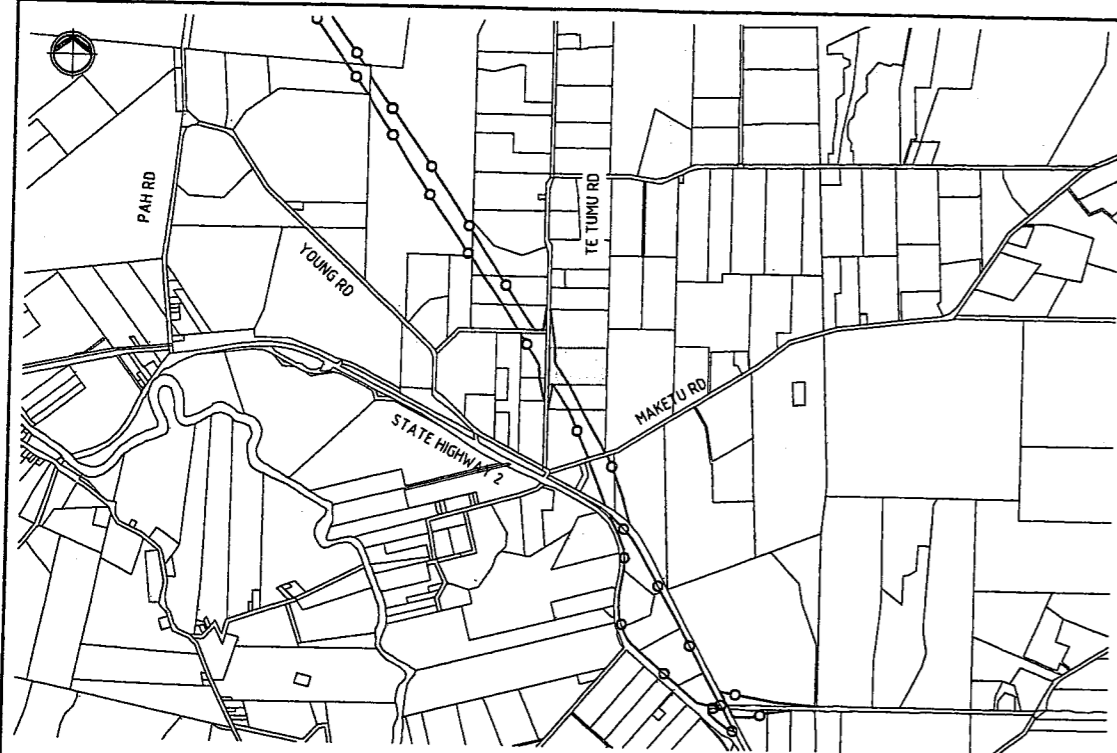


Checked and Approved by T Whittaker
CCLU1



Approved under Delegated Authority
Gael Stevens
Acting Consents Manager

Date: 6.5.9

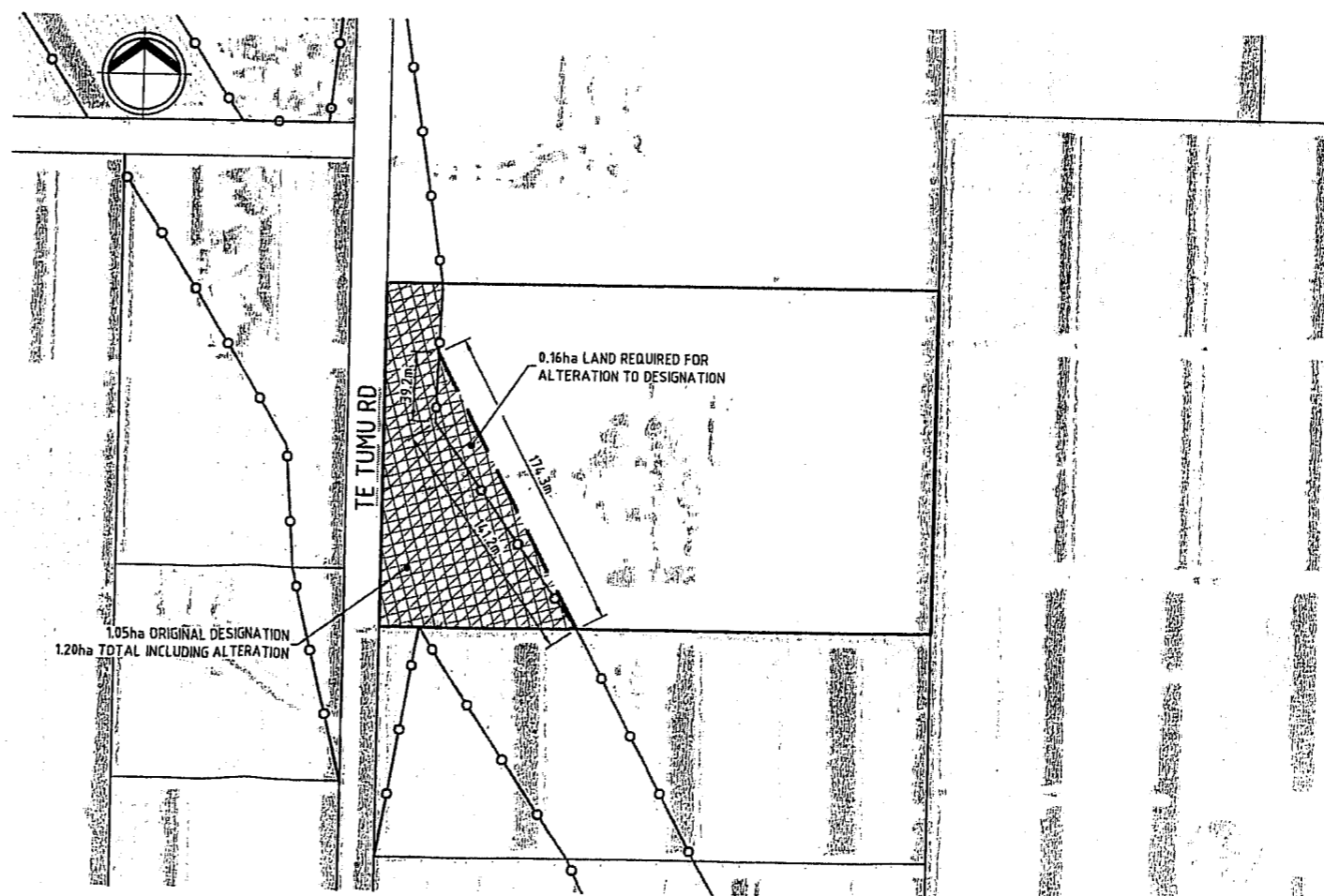


LOCALITY DIAGRAM
SCALE 1:20000

NOTE
LAND REQUIREMENTS ARE APPROXIMATE ONLY AND ARE SUBJECT TO DETAILED DESIGN AND FINAL LEGALISATION SURVEY

LEGEND

- DESIGNATION BOUNDARY
- NEW DESIGNATION BOUNDARY
- AFFECTED PROPERTY
- LAND REQUIRED FOR MOTORWAY
- LAND ALREADY ACQUIRED
- LAND REQUIRED FOR LOCAL ROAD
- LAND REQUIRED FOR ALTERATION TO DESIGNATION



PROPOSED BOUNDARY DETAILS
SCALE 1:2000

| No. | Revision | By | Chk | Appd | Date |
|-----|--|-----|-----|------|----------|
| C | LAND AREA UPDATED | AWS | TVH | TVH | 30.04.08 |
| B | NEW ALTERATION TO DESIGNATION BOUNDARY UPDATED | AWS | TVH | TVH | 22.02.08 |
| A | FOR INFORMATION | MD | BL | TVH | 20.09.07 |

Drawing Originator:
BECO Engineers ■ Planners ■ Managers

| | | | | |
|-------------------------------|--------------|----|----------------------------|----------|
| Original Scale (A1) AS SHOWN | Design Drawn | MD | Approved For Construction* | 18.09.07 |
| Reduced Scale (A3) HALF SHOWN | Dwg Verifier | | Date | |
| | Dwg Check | | | |

* Refer to Revision 1 for Original Signature



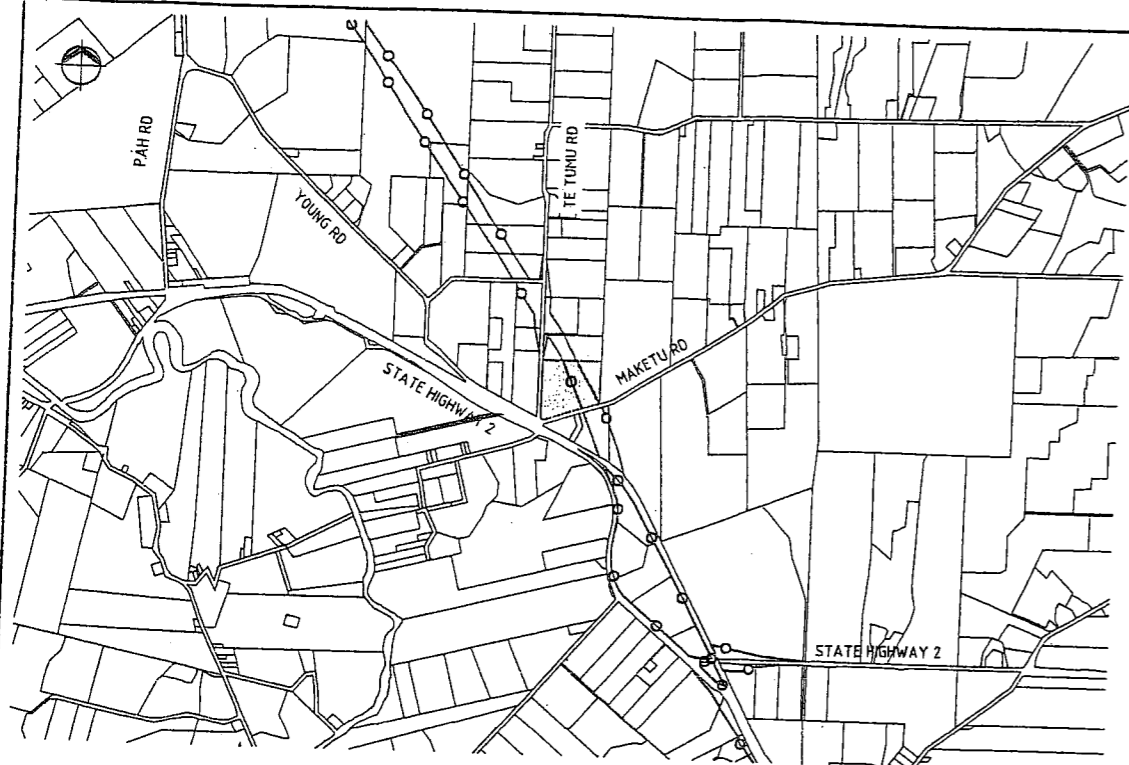
Client: **TRANSIT NEW ZEALAND**
Project: **TAURANGA EASTERN MOTORWAY**

Title: **LAND REQUIREMENT PLAN**
LOT 1 DPS 322309
TRANSIT NZ (EX PARTON RL & FP)

FOR INFORMATION
NOT FOR CONSTRUCTION

Discipline: **CIVIL**
Drawing No: **3932036-G096**
Rev: **C**

DO NOT SCALE

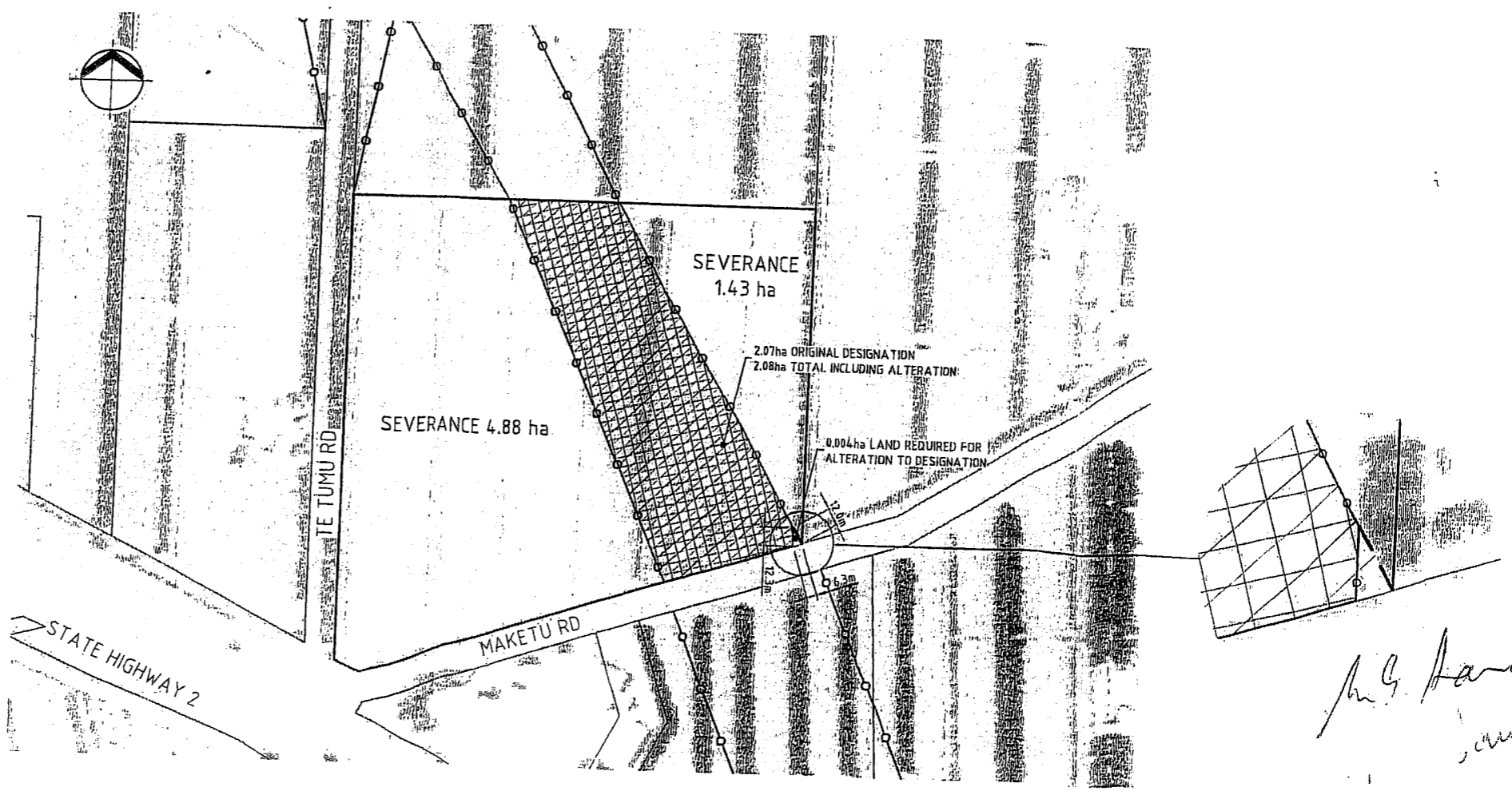


LOCALITY DIAGRAM
SCALE 1:20000

NOTE
LAND REQUIREMENTS ARE APPROXIMATE ONLY AND ARE SUBJECT TO DETAILED DESIGN AND FINAL LEGALISATION SURVEY

LEGEND

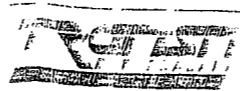
- DESIGNATION BOUNDARY
- NEW DESIGNATION BOUNDARY
- AFFECTED PROPERTY
- LAND REQUIRED FOR MOTORWAY
- LAND ALREADY ACQUIRED
- LAND REQUIRED FOR LOCAL ROAD
- LAND REQUIRED FOR ALTERATION TO DESIGNATION



PROPOSED BOUNDARY DETAILS
SCALE 1:200

M.G. Sanders
Surveyor

| | | | |
|-------------|--------------|---------|-------|
| DATE | BY | CHKD | APPD |
| 01 JUL 2008 | M.G. SANDERS | | |
| PROJECT NO. | CLIENT | PROJECT | SCALE |
| 125.000 | | | 1:200 |



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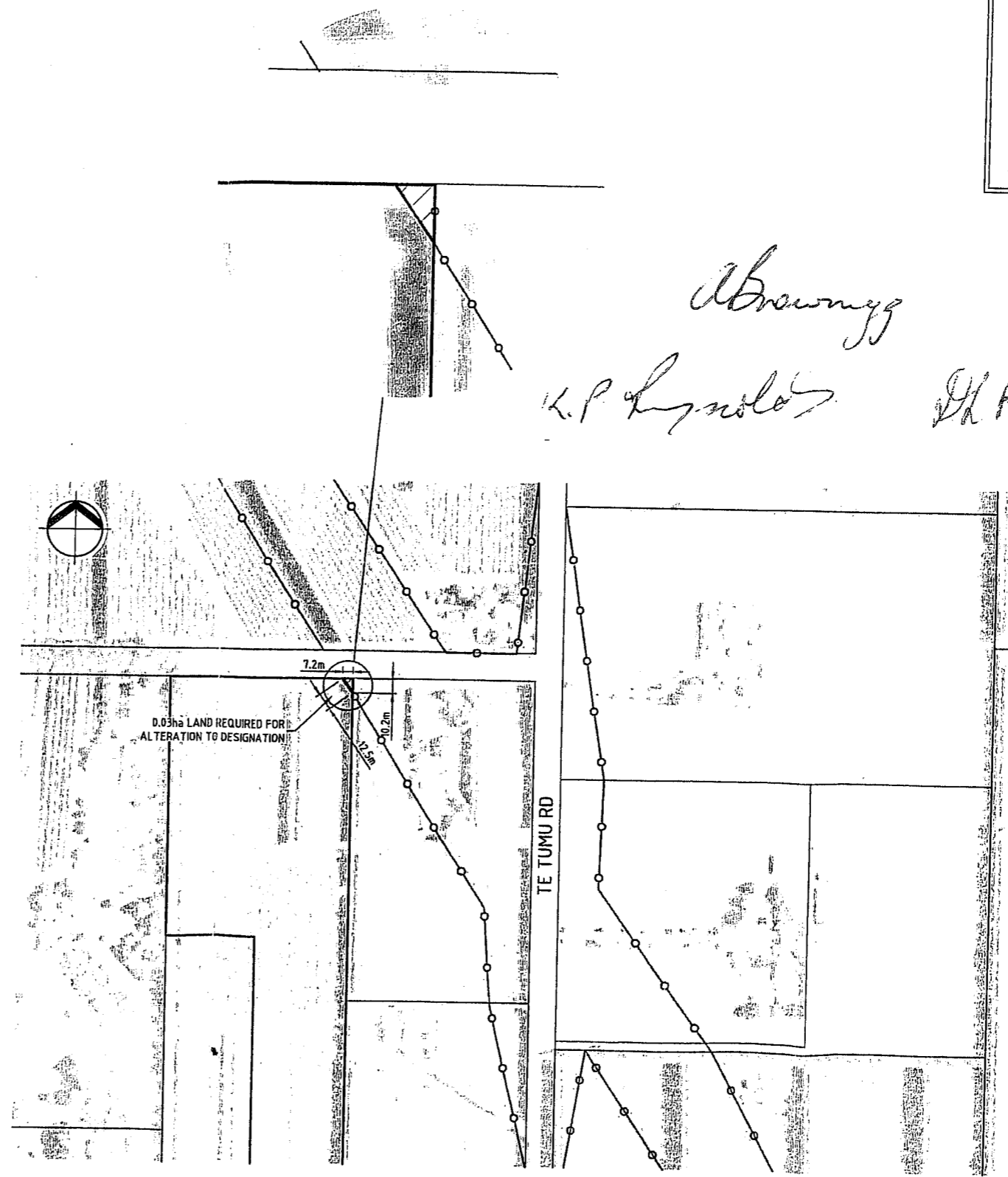
LOCALITY DIAGRAM
SCALE 1:20000

NOTE
LAND REQUIREMENTS ARE APPROXIMATE ONLY AND ARE SUBJECT TO DETAILED DESIGN AND FINAL LEGALISATION SURVEY

LEGEND

- DESIGNATION BOUNDARY
- NEW DESIGNATION BOUNDARY
- AFFECTED PROPERTY
- LAND REQUIRED FOR MOTORWAY
- LAND ALREADY ACQUIRED
- LAND REQUIRED FOR LOCAL ROAD
- LAND REQUIRED FOR ALTERATION TO DESIGNATION

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PROPOSED BOUNDARY DETAILS
SCALE 1:2000

| No. | Revision | By | Chk | Appd | Date |
|-----|-------------------|-----|-----|------|----------|
| B | LAND AREA UPDATED | AWS | TVH | TVH | 06.05.08 |
| A | FOR INFORMATION | AWS | TVH | TVH | 08.02.08 |

Drawing Originator:
BECA Engineers • Planners • Managers

| | | | | |
|-------------------------------|--------------|-----|----------|---------------------------|
| Original Scale (A1) AS SHOWN | Design Drawn | AWS | 08.02.08 | Approved For Construction |
| Reduced Scale (A3) HALF SHOWN | Dwg Verifier | | | Date |
| | Dwg Check | | | |

* Refer to Revision 1 for Original Signature



Client: **TRANSIT NEW ZEALAND**
Project: **TAURANGA EASTERN MOTORWAY**

Title: **LAND REQUIREMENT PLAN**
Lot2 DPS 66941
REYNOLDS

FOR INFORMATION
NOT FOR CONSTRUCTION






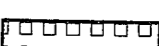
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| Discipline | CIVIL |
| Drawing No. | 3932036-G121 |
| Rev. | B |

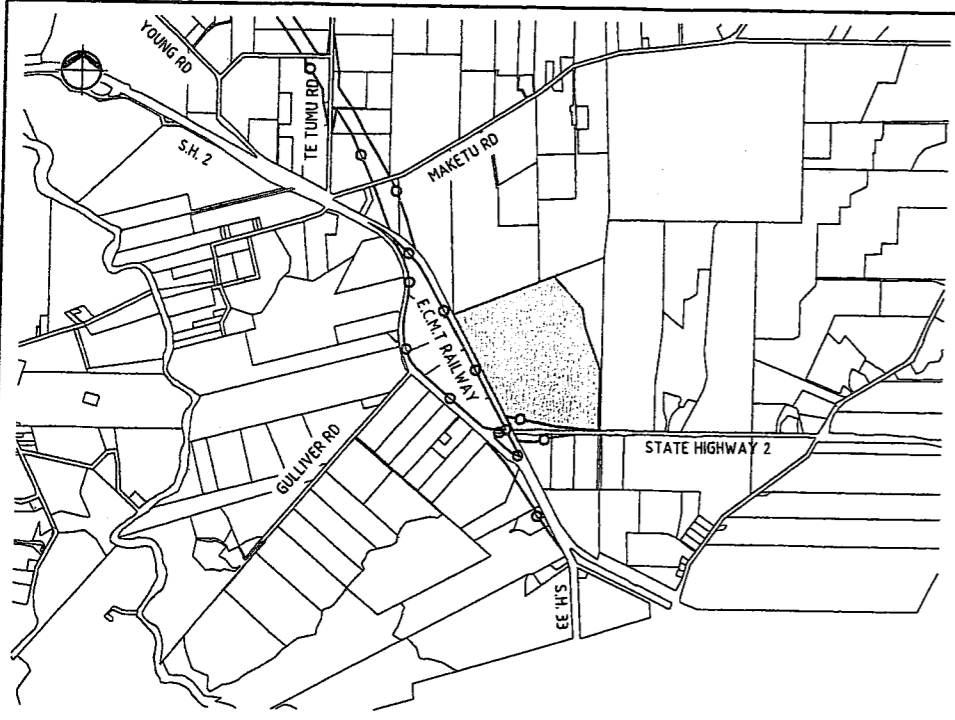
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Document No. 2036612.dwg

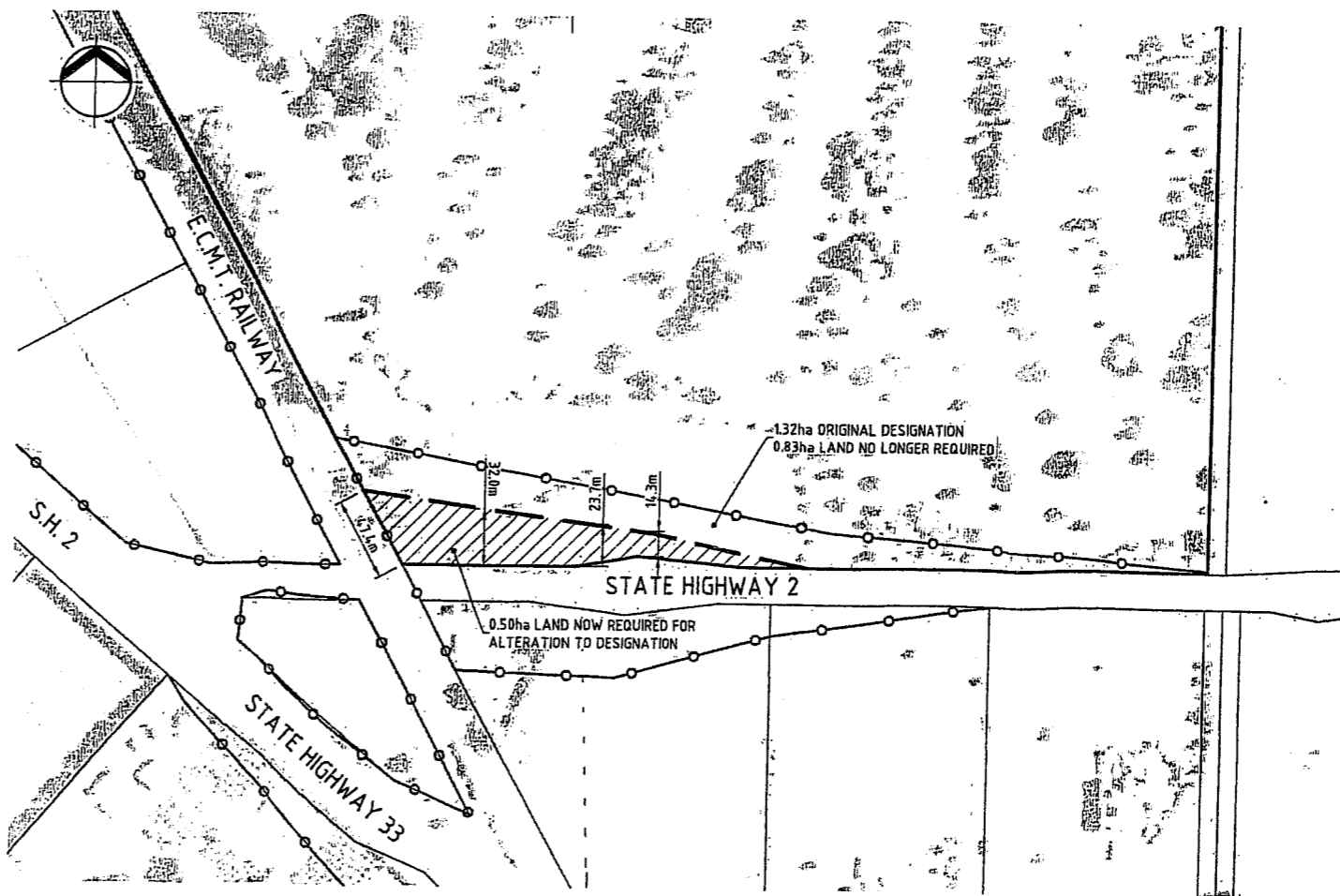
NOTE
 LAND REQUIREMENTS ARE APPROXIMATE ONLY AND ARE SUBJECT TO DETAILED DESIGN AND FINAL LEGALISATION SURVEY

LEGEND

-  DESIGNATION BOUNDARY
-  NEW DESIGNATION BOUNDARY
-  AFFECTED PROPERTY
-  LAND REQUIRED FOR MOTORWAY
-  LAND ALREADY ACQUIRED
-  LAND REQUIRED FOR RIGHT OF WAY



LOCALITY DIAGRAM
 SCALE 1:20000



PROPOSED BOUNDARY DETAILS
 SCALE 1:2000

| No. | Revision | By | Chk | Appd | Date |
|-----|--|-----|-----|------|----------|
| D | ANNOTATION AMENDED | AWS | TVH | TVH | 03.07.08 |
| C | LAND AREA UPDATED | AWS | TVH | TVH | 30.04.08 |
| B | NEW ALTERATION TO DESIGNATION BOUNDARY UPDATED | AWS | TVH | TVH | 19.02.08 |
| A | FOR INFORMATION | MD | BL | TVH | 20.09.07 |

Drawing Originator:
 **BECA** Engineers • Planners • Managers

Original Scale (A1) AS SHOWN
 Design Drawn: MD 19.09.07
 Approved For Construction*
 Reduced Scale (A3) HALF SHOWN
 Dwg Verifier: []
 Dwg Check: []
 Date: []
 * Refer to Revision 1 for Original Signature

Client:  **TRANSIT** NEW ZEALAND
 TAURANGA EASTERN MOTORWAY

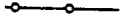

Project: TAURANGA EASTERN MOTORWAY

Title: LAND REQUIREMENT PLAN
 PT SEC 1 BLK III MAKETU SD
 TE PUKE GOLF CLUB

FOR INFORMATION NOT FOR CONSTRUCTION

Discipline: CIVIL
 Drawing No. 3932036-G108
 Rev. D

LEGEND

-  DESIGNATION BOUNDARY
-  PROPOSED SHARED 3.0m WIDE OFF ROAD PEDESTRIAN & CYCLE PATH

PROPOSED PAPAMOA EAST INTERCHANGE

CONNECTION TO INTERCHANGE TO BE CONFIRMED

MATCH LINE BELOW

BELL ROAD

KAITUNA ROAD

PAH ROAD

CONNECTION TO BUSINESS PARK TO BE CONFIRMED

PROPOSED RANGIURU BUSINESS PARK

MATCH LINE BELOW

| | | | | | | | |
|-----------------|----------|----|------|----------|--|------|--|
| FOR INFORMATION | | By | | Appd | | Date | |
| No. | Revision | By | Appd | Date | | | |
| | | | | 21.05.08 | | | |

Drawing Originator:



Beca Engineers • Planners • Managers

| | | | | |
|--|--------------|-----|----------|----------------------------|
| Original Scale (A1) | Design | TVH | 21.05.08 | Approved For Construction* |
| 1:5000 | Drawn | AWS | 21.05.08 | |
| Reduced Scale (A3) | Dwg Verifier | | | Date |
| 1:10000 | Dwg Check | | | |
| * Refer to Revision 1 for Original Signature | | | | |

Client:



Project:

TAURANGA EASTERN MOTORWAY

Title: PROPOSED OFF ROAD PEDESTRIAN AND CYCLE PATH

| | |
|--------------------------------------|---------------|
| FOR INFORMATION NOT FOR CONSTRUCTION | |
| Discipline | CIVIL |
| Drawing No. | 3932036-CK238 |
| Rev. | A |

DO NOT SCALE

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Document No. 2096CK238.dwg

IF IN DOUBT ASK



New Zealand Transport Agency
C/- Beca Carter Hollings & Ferner
PO Box 903
TAURANGA 3140

Attention: Michael Seabourne
Your Ref: 3932036/250

**RESOURCE MANAGEMENT ACT 1991
SECTION 181(3) ALTERATION OF DESIGNATION – RC14693**

1.0 DESIGNATION & REQUIRING AUTHORITY

| | |
|-----------------------------|--|
| Requiring Authority: | New Zealand Transport Agency |
| Designation: | TR14 (Tauranga Eastern Motorway) TR16 (Eastern Arterial Route) TR17 (Sandhurst Interchange) |
| Site Location: | Railway Reserve (Te Maunga Roundabout SH2) Railway Reserve (East of Te Maunga Roundabout SH2) Railway Reserve (Kairua Road and SH2 Intersection) Railway Reserve (West of Mangatawa Lane) Railway Reserve (Sandhurst Drive Airspace) Railway Reserve (Domain Road Airspace) |
| Legal Description: | PT 2NO10B Papamoa SO21734 Railway Reserve |
| District Plan Zone: | Industrial Business and Road |

2.0 DESCRIPTION OF ALTERATION

The Notices of Requirement are for alterations to three of the existing Tauranga Eastern Motorway designations, the Te Maunga Four Laning (TR14), the Eastern Arterial Route (TR16) and the Sandhurst Interchange (TR17). The nature of the proposed works are to provide for the design and construction of the Tauranga Eastern Motorway (TEM). The existing designations are for "Proposed Road Widening", "Proposed Road" and "Proposed Interchange" respectively. The alteration to designations does not propose to alter these purposes.

The original designations (1997) were based on a preliminary design of the route. Detailed specific design work on the TEM project has resulted in the need for a number of changes to the preliminary design. NZTA design standards have changed since the concept design was undertaken. The concept design was for the four-laning of the existing road, the creation of road to the east of Domain Road to Paengaroa, and the creation of an interchange at Truman Lane and Mangatawa Lane. The TEM design has since changed to be classified as motorway.

The requiring authority has advised that construction will take place in general accordance with the conditions in the original designations for the Tauranga Eastern Motorway, Eastern Arterial Route and the Sandhurst Interchange.

The land that is subject to these alterations to designations is currently designated by Ontrack for railway purposes (Designation TZ2). The alterations to the Ontrack designation involve the following four separate proposals:

Te Maunga Four Laning (TR14)

| Legal Description | Designation currently held by | Area to be relinquished from NZTA designation | Additional area required for designation |
|--|-------------------------------|---|--|
| Railway Reserve (Te Maunga Roundabout SH2) | ONTRACK (TZ2) | | 1,700m ² 7,500m ² 2,900m ² 300m ² |
| Railway Reserve (East of Te Maunga Roundabout SH2) | NZTA | 200m ² | |
| Railway Reserve (East of Te Maunga Roundabout SH2) | ONTRACK (TZ2) | | 1,300m ² 100m ² 700m ² |

The Notice applies to four areas within two parcels of land on the southwest side of the existing SH2 at Te Maunga. It also applies to one area of land to be relinquished from NZTA to Ontrack.

The surrounding environment is urban, with adjacent land being used for railway purposes (the East Coast Main Trunk Line), State highway, and residential land use on the northern side of the existing State highway.

The alteration requires a total of 1.45 ha of additional land to allow for more width necessary for the road widening works including the provision of right turn access to the TEM and the provision of landscaping and noise mitigation as required by conditions of the original designation.

Kairua Road Intersection (TR14)

| Legal Description | Designation currently held by | Additional area required for designation |
|--|-------------------------------|--|
| Railway Reserve (Kairua Road and SH2 Intersection) | ONTRACK (TZ2) | 2,100m ² |

The Notice applies to one parcel of land on the southwest side of the existing SH2 at Kairua Road. The existing Kairua Road currently occupies land designated for railway purposes. The surrounding environment is rural, with adjacent land being used for railway purposes (the East Coast Main Trunk Line).

The original preliminary design contained within the original designation was for a tight bend intersection to provide access from Kairua Road onto the TEM. A safety audit was undertaken on the motorway design and it was determined that this configuration was not safe and a smoother curve was required for the intersection entry. The new configuration falls outside of the original designation and therefore requires alteration.

Sandhurst Drive Airspace (TR17)

| Legal Description | Designation currently Held by | Additional area required for designation |
|--|-------------------------------|--|
| Railway Reserve (West of Mangatawa Lane) | ONTRACK (TZ2) | 600m ² of Airspace occupied by overpass above ONTRACK designation |

The Notice applies to the airspace above the existing Ontrack designation, being airspace generally 5.5 metres above the Ontrack designated corridor for the length of the NZTA overbridge.

The original designation preliminary design did not designate the airspace above the Ontrack designation. It has since been identified that this airspace needs to be included within the Sandhurst Interchange designation, to provide for the overpass proposed over the ECTM railway line.

Part of the overbridge abutment (60m²) is proposed to be located on the existing Ontrack designation, however this designation is not proposed to be altered, instead a Deed of Grant will be established between Ontrack and NZTA to allow the underground footing to be constructed on the Ontrack designation. The footing will not be consistent with the Ontrack designation for railway purposes and the Council is likely to determine that a land use consent will be required for the footing once an application to construct the footing is received.

Domain Road Airspace (TR16)

| Legal Description | Designation currently Held by | Additional area required for designation |
|---|-------------------------------|--|
| Railway Reserve (Airspace over SH2 over-bridge, near Domain Road) | ONTRACK (TZ2) | 280m ² of Airspace occupied by overpass above ONTRACK designation |

The Notice applies to the airspace above the existing Ontrack designated corridor for the length of the NZTA overbridge near Domain Road. The surrounding environment around the East Coast Main Trunk Line is rural.

The original designation preliminary design did not designate the airspace above the Ontrack designation. It has since been identified that this airspace needs to be included within the Tauranga Eastern Arterial designation, to provide for the overpass proposed over the ECTM railway line.

3.0 PLANNING ASSESSMENT

3.1 Environmental Effects

It is my opinion that there are no environmental effects associated with the alteration to designations for the airspaces above the Domain Road Interchange and the Sandhurst Interchange. The purpose of these alterations are to allow the construction of overbridges above existing the Ontrack designations. The environmental effects of the overbridges themselves were already assessed under the Notice of Requirement for the existing TEM designations TR16 and TR17.

Therefore the following environmental effects assessment is with respect to the alterations to designation TR14 affecting the Te Maunga Four Laning & Kairua Intersection only.

Noise and Vibration

The land subject to the proposed alterations for the Te Maunga Four Laning and the Kairua Road Intersection designation are located between the existing State Highway and the East Coast Main Trunk Line both of which are high noise activities. The existing environment is typical of that near a busy highway and railway line and is a very noisy environment due to the number of vehicles on the road, the speed they are travelling and the road surface, as well as the movement of trains along the East Coast Main Trunk Line.

The requiring authority believes there will be no increase in noise to any adjacent dwelling or residential areas due to the proposed alterations to the designation. Further the requiring authority believes that the noise generated from future traffic on the road is predicted to decrease slightly due to the use of a quieter road surface.

The requiring authority believes any noise effects from the operation of the Tauranga Eastern Motorway at these locations will be the same as those described in the existing designation Notice of Requirement, and required mitigation measures for these noise and vibration effects are outlined in conditions attached to the original designation.

Clauses of the original designation refer to compliance with the Construction Noise Standards which will apply during the period of construction. At this stage no details of the construction methods or the machinery likely to be used has been provided, however the noise effects of the construction activities are not expected to be significant given the high ambient noise levels and the high noise levels permitted under the Construction Noise Standards.

The requiring authority believes that the alterations being sought to the Te Maunga Four Laning designation (TR14) will not impact on compliance with the original designation conditions, in particular Clause 5.7 and Clause 7.3.2.

I concur with the requiring authority that these alterations to the designation will not result in any adverse noise effects at these locations given the existing high level noise environment, the proposed mitigation and the potential to continue to comply with the conditions of the existing designation.

Archaeological Features

The subject properties were inspected during an archaeological survey of the Te Maunga to Domain Road Tauranga Eastern Motorway construction corridor in April 2008. There are no recorded archaeological sites within these properties and no archaeological sites or evidence for the presence of subsurface archaeological features identified.

The requiring authority confirmed that if any archaeological sites or remains are discovered the works at the place of discovery will cease immediately and the NZ Historic Places Trust, kaumatua representing local Tangata Whenua and the NZ police shall be contacted and work shall only re-commence in the affected areas when the necessary/statutory authorisations or consents have been obtained as per conditions (xiv) and (xv) of the original Te Maunga Four Laning designation.

I concur with the requiring authority that the alterations to designation will not result in any adverse effects on archaeological sites at these locations resulting from construction works due to an absence of any recorded archaeological features and the proposed mitigation measures. It is my opinion that the alterations will not affect the ability of the requiring authority to comply with the conditions of the original designation.

Landscape and Visual

The areas included in the alteration to the Te Maunga Four Laning designation at the Te Maunga roundabout are highly modified pieces of land with weedy vegetation, including grevillea, black wattle, gorse and bottle brush. The sites are also occupied by stockpiled soil and waste, and old railway equipment. The Kairua Road Intersection site is predominately in pasture with some exotic vegetation. The Mangatawa drain runs through the site.

The designating authority believes that the inclusion of this group of alteration areas will widen but not alter the character or context of the Te Manunga and Kairua Road intersections and their connections with the TEM.

The Council's Lanscape Architect has considered the application for the alterations to the Te Maunga Four Laning designation and concurs with the requiring authority that there will be no additional Landscape and Visual effects for these alterations.

I concur with the requiring authority's assessment and the Council's Landscape Achitect's advice that this alteration to the designation will not result in any additional adverse effects on landscape or visual values, not already anticipated as part of the original designation at this location, due to the proposed mitigation and consistency with the conditions of the existing designation, in particular condition 7.3.1.

Ecological

The requiring authority believes that the widening of this designation near the Te Maunga roundabout and the upgrade of the Kairua Road intersection to accommodate the future highway in these locations will not have a significant effect on the ecology of these areas, as the areas comprise mostly grassland and exotic trees, shrubs and weeds.

The alterations are not located in close proximity to any water body, with the exception of the Kairua Road Intersection alteration which is located in close proximity to the Mangatawa drain. The effect on this waterbody has been addressed and mitigated in the Mangatawa stormwater consent lodged with Environment Bay of Plenty. Native landscaping is proposed as part of the road upgrade works.

I concur with the requiring authority that these alterations to the designation will not result in any adverse ecological effects at these locations.

Stormwater

Much of the railway reserve in this areas is grassed, therefore the alterations to designation will increase the volume of run-off as a result of an increase in impermeable surface and loss of ground soakage. The requiring authority has advised in their application that stormwater from both construction and operation of the motorway will be managed in the same manner and to the same standards as required in the conditions of the original designation. Land use consent from Environment Bay of Plenty is currently being sought for stormwater disposal into the Mangatawa drain.

The Council's Development Engineer has considered the proposed alterations to designation and is satisfied that the proposal can proceed in accordance with the application submitted. For these reasons I consider that the alterations to the Te Maunga Four Laning designation will not result in any adverse stormwater effects at this location.

Ground Condition

The existing natural near surface ground conditions in this area are predominantly alluvial silts and sands. The proposed alterations provides for realignment of the road at these locations, which are anticipated to be constructed on broadly the same soils. The requiring authority believes these alterations are minor in their extent and will be constructed in the same manner and to the same standard as the TEM.

The Council's Development Engineer has considered this application for alterations to designation and is satisfied that the proposal can proceed in accordance with the application submitted. I concur with the requiring authority and the Council's Development Engineer that there are no adverse engineering effects.

Traffic

The physical road layout change enabled by the alteration is the widening of the road near the Te Maunga intersection and the upgrade of the Kairua Road intersection. The requiring authority believes there are no adverse traffic effects as a result of the alterations. However the requiring authority believes the alterations will result in significant positive traffic effects as the alterations provide for improved traffic safety at these location. The Council's Senior Traffic Engineer agrees with the requiring authority's advice that the traffic effects of the alterations will be less than minor.

I concur with the advice of the requiring authority and the Council's Senior Traffic Engineer that with respect to the traffic effects and I am satisfied that the purpose of the works will remain the same and consistent with the original designation and conditions of consent.

Construction Dust

The requiring authority has advised that construction will be managed in the same manner and to the same standards as the rest of the TEM, therefore any dust issues will be managed and mitigated as set out in the Construction Management Plan to be prepared for the motorway construction. For this reason I conclude that the alteration to designation is unlikely to result in any adverse dust effects at this location. The purpose of the designation will remain the same and consistent with the original designation and its conditions of consent.

3.2 Consultation

Landowner

The subject land is railway reserve owned and designated by Ontrack. The requiring authority considers that Ontrack is the only party directly affected by the alteration to designation.

The Ontrack designation will be required to be uplifted in places to enable NZTA to accept financial responsibility for the works associated with their designations at these locations. The impact of designating the airspace above the railway line requires no additional land. The Ontrack designation will remain in place over the land and only the airspace above this designation will be designated for the construction of the interchanges only. Ontrack have provided written consent to the alterations to designations.

I concur with the requiring authority that the only party directly affected by the alterations to designations is Ontrack as the landowner of the properties subject to the alterations, and for the reasons outlined above in section 3.1 no other parties are directly affected by the proposed alterations to designations.

Tangata Whenua

The requiring authority advises that consultation with the relevant iwi and hapu on the alterations to designations was undertaken in 2007. The TEM Combined Tangata Whenua Group has met several times and proposed a protocol for the pre-construction earthworks monitoring. To date, the key interests of Tangata Whenua have been the management of construction to avoid adverse effects on the environment, particularly the quality and quantity of stormwater in the local drains, reservoirs and harbour, and the management of any discovery of archaeological material in a culturally appropriate manner. The requiring authority advises that research to date has ensured that no known significant sites are affected by the project.

It is my opinion that appropriate consultation has been undertaken with Tangata Whenua as part of the original designation process and that the proposed alterations to designations does not trigger the need for additional consultation under the Council's Consultation with Tangata Whenua on Resource Consent Applications policy. Further it is my opinion that the proposed alterations to designations will not create any adverse effects of concern previously raised by Tangata Whenua which are not mitigated by the existing designations consent conditions.

3.3 Statutory Considerations

Under section 181(3) of the Resource Management Act 1991 the Council may alter a designation without the need for public notification, where:

- the alteration involves a minor change to the effects on the environment or to the designation boundaries; and
- the owner/occupiers of directly affected land have received written notice and agree with the alteration; and
- the Council and the requiring authority agree with the alteration.

For the reasons outlined in part 3.0, it is considered that the proposed alterations accord with the above criteria. As such, public notification is not required and the

Council can simply alter the District Plan designations without further formality. Under these circumstances Section 168 to 179 of the RMA do not apply.

4.0 SECTION 181 RECOMMENDATION

Pursuant to Section 181 of the Resource Management Act 1991 it is considered that the alterations of the designations can be accepted with regard to there being no more than a minor change to the effects on the environment associated with the use of the land. In terms of any directly affected landowner, written approval has been obtained. It is considered that the alteration of the designation is not contrary to the purpose and principles of the RMA.

Tauranga City Council resolves:

That pursuant to Section 181 of the Resource Management Act 1991, the New Zealand Transport Agency notice of requirement submitted by Beca Carter Hollings & Ferner, referenced as 3932036/250 and the submitted plans, referenced as 3932036-G011 Rev H, updated 02/07/2009, 3932036-G012 Rev G, updated 06/07/2009, 3932036-G034 Rev C, updated 16/03/2009, 3932036-G127 Rev B, updated 20/03/2009 and 3932036-G128 Rev C, updated 03/07/2009, for alteration of Operative Tauranga District Plan designations for the Tauranga Eastern Motorway TR14, TR16 and TR17 at Railway Reserve (Te Maunga Roundabout SH2), Railway Reserve (East of Te Maunga Roundabout SH2), Railway Reserve (Kairua Road and SH2 Intersection), Railway Reserve (West of Mangatawa Lane), Railway Reserve (Sandhurst Drive Airspace) and Railway Reserve (Domain Road Airspace), legally described as PT 2N010B Papamoa SO21734 and Railway Reserve is accepted.

Recommended and Assessed by:



Emma Hilderink
Senior Environmental Planner

Delegated Authorisation by:



Natalie Rutland
Acting Team Leader Environmental
Planning

Date: 01/09/2009

30 October 2009

Michael Seabourne
Beca Carter Hollings & Ferner (Tga)
Po. Box 903
Seventh Avenue
Tauranga 3140

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| COPIES TO | | | | | |
| DATE SENT | | | | | |
| BECA TGA 03 NOV 2009 393 2036 / TPL. | | | | | |
| BY | | | | | |
| SEE | | | | | |
| ACT | | | | | |

Barkes Corner
Greerton, Tauranga
Private Bag 12803
Tauranga 3143
Telephone 07 571 8008
Facsimile 07 577 9820
customerservice@westernbay.govt.nz
www.westernbay.govt.nz
P/1533/58 P/1533/7732
P/1386/6 P/1526/550
RC3145L

Dear Sir/Madam

**Section 133A Resource Management Act 1991
Alteration to designation D179 – Tauranga Eastern Arterial**

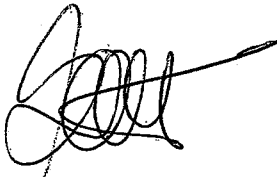
Further to Council's letter and decision dated 28 October 2009, Council has identified that there is a minor correction necessary to the decision documentation.

Accordingly, the decision has been amended pursuant to Section 133A of the Resource Management Act 1991 (by amendment 2005) such that resolution (a) should state:

"(a) THAT pursuant to Section 181(3) of the Resource Management Act 1991 Western Bay of Plenty District Council resolves to grant the proposed alteration to designation D179 Tauranga Eastern Motorway."

All other conditions remain without amendment. A full copy of the decision with amendment is attached.

Yours faithfully



Chris Watt
Consents Manager
Email: chris.watt@westernbay.govt.nz

Encl

9 September 2009

Western Bay of Plenty District Council Customer and Business Services

APPLICATION FOR ALTERATION TO DESIGNATION - SECTION 181(3) - NEW ZEALAND TRANSPORT AGENCY

Delegated Authority

P/1528, P/3006/2

Recommendation:

- (a) **THAT pursuant to Section 176A(4) of the Resource Management Act 1991 Western Bay of Plenty District Council resolves to grant the proposed alteration to designation D179-Tauranga Eastern Motorway.**
- (b) **THAT pursuant to section 37 and 37A of the Resource Management Act 1991, the processing time of this application is extended from 20 working days to 26.**

1. Designation & Requiring Authority:

Requiring Authority: New Zealand Transport Agency

Designation: D179- Tauranga Eastern Motorway

Site Location: Near the intersection of Te Tumu Road/ Maketu Road/ State Highway 2 (Refer to attached plan)

Legal Description: ECMT Railway Reserve

Zone: Rural G

2. Description of Works

It is proposed that the original preliminary design for the construction of the Tauranga Eastern Motorway is amended. These changes include an over bridge over the railway line that will be shorter spanned than previously specified. The result of this is that the bridge will be located within the "Ontrack" designation rather than the NZTA designation. Ontrack have requested that the designation be altered so that NZTA can acquire the land and that the airspace above the designation be included so that maintenance responsibility for the over bridge remains with NZTA.

3. Section 181(3) – Matters Taken into Account

Section 181(3) of the Resource Management Act 1991 states that a territorial authority may at any time alter a designation in its district plan if the alteration involves no more than a minor

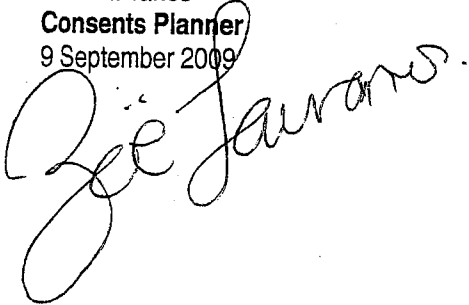
change to the effects on the environment associated with the use of land concerned; or involves only minor changes or adjustments to the boundaries of the designation. In this case the changes are both no more than minor in regards to effects and represent a minor adjustment to the boundaries of the designation.

Through discussions with the applicant's agent it is apparent that the only potentially affected party is Ontrack who have provided their written approval of the proposal. Western Bay of Plenty District Council agree to the designation alteration as required in section 181 (3)(c) of the Act therefore no further action is required to satisfy Council's statutory obligations.

Reasons for decision:

1. **The processing time of this application has been extended pursuant to sections 37 and 37A of the RMA 1991 as further clarification was required regarding the original designation. In addition to this workload and staff absence also added to the requirement for further time, accordingly the processing time required was 26 working days.**

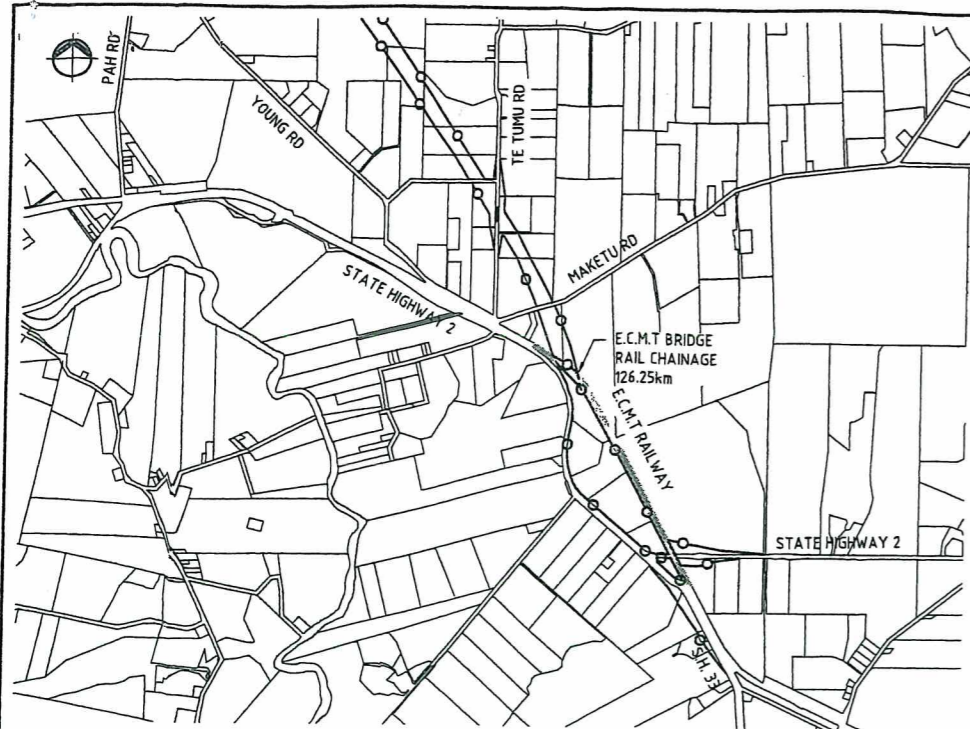
Zoë Lavranos
Consents Planner
9 September 2009



Approved under Delegated Authority
Chris Watt
Consents Manager

Date:

9/9/09



LOCALITY DIAGRAM
SCALE 1:20000

WESTERN BAY OF PLENTY DISTRICT COUNCIL

APPROVED

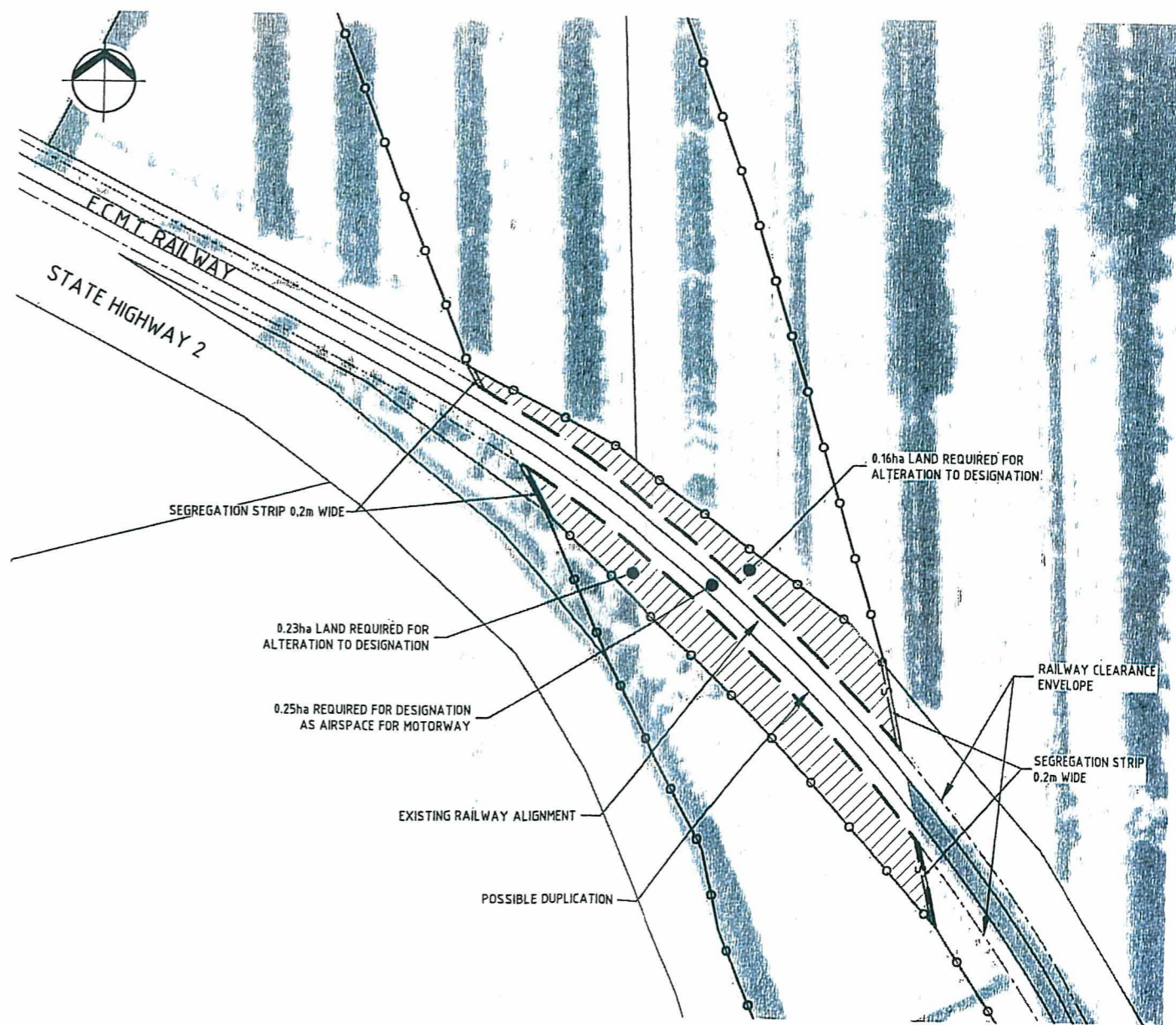
For Resource Consent No: *PC 2913L*

Date: *09/09/09* Signed: *[Signature]*

NOTE
1. LAND REQUIREMENTS ARE APPROXIMATE ONLY AND ARE SUBJECT TO DETAILED DESIGN AND FINAL LEGALISATION SURVEY
2. REFER DRAWING 3932036-CK205 FOR ROAD AND BRIDGE LAYOUT DETAILS.

LEGEND

- DESIGNATION BOUNDARY
- EXISTING RAILWAY CENTRELINE
- NEW DESIGNATION BOUNDARY
- AFFECTED PROPERTY
- AREA REQUIRED FOR MOTORWAY DESIGNATION
- AREA REQUIRED FOR ROAD DESIGNATION (AIR SPACE)
- LAND REQUIRED FOR ALTERATION TO DESIGNATION



PROPOSED BOUNDARY DETAILS
SCALE 1:1000

| No. | Revision | By | Chk | Appd | Date |
|-----|--|-----|-----|------|----------|
| E | AIRSPACE AREA ADDED | BIL | TVH | TVH | 01.07.09 |
| D | SEGREGATION STRIPS ADDED | BIL | TVH | TVH | 26.05.09 |
| C | AIRSPACE ENVELOPE ADDED - LEGEND AMENDED | JH | TVH | TVH | 16.03.09 |
| B | AIRSPACE ENVELOPE ADDED | RN | GL | TVH | 12.02.09 |

Drawing Originator: **BECA** Engineers ■ Planners ■ Managers

| Original Scale (A1) | Design | Drawn | Checked | Approved For Construction* |
|---------------------|-----------|-------|---------|----------------------------|
| AS SHOWN | AWS | | | 01.08.08 |
| Reduced Scale (A3) | Dwg Check | Date | | |
| HALF SHOWN | | | | |

* Refer to Revision 1 for Original Signature

Client: NZ TRANSPORT AGENCY
WAKA KOTAHĪ

Project: **TAURANGA EASTERN MOTORWAY**

Title: **LAND REQUIREMENT PLAN
ECMT RAILWAY RESERVE**

**FOR INFORMATION
NOT FOR CONSTRUCTION**

Discipline: **CIVIL**

Drawing No. **3932036-G123**

Rev. **E**

New Zealand Transport Agency
C/- Beca Carter Hollings & Ferner
PO Box 903
TAURANGA 3140

Attention: Michael Seabourne
Your Ref: 3932036 (Contractor Areas)

**RESOURCE MANAGEMENT ACT 1991
SECTION 181(3) ALTERATION OF DESIGNATION – RC14792**

1.0 DESIGNATION & REQUIRING AUTHORITY

Requiring Authority: New Zealand Transport Agency
Designation: TR16 (Eastern Arterial Route)
Site Location: Bell Road (Formerly part of 117 Bell Road)
Legal Description: Section 4 SO 410937
District Plan Zone: Rural

2.0 DESCRIPTION OF ALTERATION

The Notice of Requirement is for an alteration to the existing Tauranga Eastern Arterial Route designation (TR16) to provide an additional temporary Contractor Area until 31 December 2016 for the construction of the Tauranga Eastern Link (TEL).

Additional temporary Contractor Areas are required to allow for the construction of the TEL. There is currently insufficient space within the existing designation to provide for sufficient dedicated Contractor Areas. A number of Contractor Area sites are being sought in the Tauranga and Western Bay areas. NZTA do not know yet how much of each or if all sites will be needed by the contractor.

NZTA have defined Contractor Areas as land where the contractor may construct, deposit and or store:

- construction materials
- machinery

- vehicles
- site offices and staff quarters
- archaeological offices
- fuels and hazardous substance storage areas

Specifically excluded from this definition is the stockpiling of soil.

The site is to be used for the storage of machinery (including motor scrapers, dump trucks, bulldozers, cranes etc.), fuels and hazardous substance (diesel, petrol and oil), and materials (including different grades of metals, rolls of geotextiles, reinforcing steel, pipes and culverts etc.). Workshops and covered secure maintenance areas are likely to be needed as well as washdown facilities including water supply, wastewater control and perimeter controls around the site to contain any potential contaminants.

The Bell Road Contractor Area has been chosen to minimise the machinery driving distances and is also considered by NZTA to be a practical storage location.

Following completion of the construction phase of the TEL the site will be sold by NZTA. The area will not be used for any on-going road maintenance requirements or as future roading. The use of the land as a Contractor Area will not need to be subject to the designation subsequent to completion of the construction phase of the TEL.

The existing designation is for “Proposed Road Widening” and the requiring authority does not propose to alter this purpose.

2.1 Site and Surrounds



This application is for a Contractor Area located on Bell Road. 1.0 ha of the 13.6788 ha property is proposed to be used for the Contractor Area. The site is

currently owned by the Crown and until recently the site formed part of a larger parcel of land that was formerly 117 Bell Road. The site directly adjoins the existing TEL designation to the south but does not have direct road access, therefore access will be via the TEL once construction begins.

3.0 PLANNING ASSESSMENT

3.1 Environmental Effects

In determining the nature and scale of any actual and potential effects on the environment several matters have been considered. These matters include any effects in relation to noise and vibration, archaeology, landscape and visual, ecology, stormwater, traffic, dust and hazardous substances.

Noise and Vibration

The existing environment is typical of rural areas in the Bay of Plenty. The site is surrounded by farmland, with one residence located approximately 85 metres away on the adjoining parcel of land to the east. The next closest residence is approximately 140 metres to the east. The closest residential property owner and occupiers of 143 Bell Road have provided their written approval to the alteration to designation to include the contractor area.

The requiring authority has stated that the TEL project will comply with noise limits specified in New Zealand Standard NZS6803:1999 "Acoustics – Construction Noise". The noise from contractors accessing the proposed site will comply with these limits. The requiring authority considers that any noise effects from the operation of the TEL at this location are expected to be the same as those described in the existing designation Notice of Requirement. The requiring authority believes that the alteration being sought to the road widening designation (TR16) will not impact on compliance with the original designation conditions, in particular Clause 5.7 and Clause 7.3.2.

The Council's Team Leader Environmental Health Officer has reviewed the application to incorporate the Contractor Area into the existing TEL designation. She considers that whilst the site is further away from the existing State Highway 2 the background noise levels at this location (particularly when the wind direction is from the south and western quarters) are controlled by traffic movements along the state highway.

The Council's Team Leader Environmental Health Officer recommends that deliveries of materials, such as metal, should be carried out after 7:30am in order to ensure compliance with the noise levels permitted in the Construction Noise Standards at the nearest residential boundaries. She also considers that the Noise Management Plan should address the hours of operation for heavy machinery and the like. The Council's Team Leader Environmental Health Officer considers that no additional conditions to the existing designation noise conditions are required and that the above recommendations will be addressed through the Noise Management Plan.

It is my opinion that the noise effects of the construction activities are not expected to be significant given the high ambient noise levels expected at the TEL, which directly adjoins the site to the south, during its construction and the current noise levels permitted under the Construction Noise Standards.

For the reasons discussed above I concur with the requiring authority and with the Council's Team Leader Environmental Health Officer that the alteration to the designation will not result in any adverse noise effects at this location.

Archaeological Features

The application for Alteration to Designation is not anticipated to require earthworks or excavation at the proposed Contractor Area. However NZHPT approval for the Contractor Area has been obtained.

The requiring authority confirmed that if any archaeological sites or remains are discovered the works at the place of discovery will cease immediately and the NZ Historic Places Trust, kaumatua representing local Tangata Whenua and the NZ police shall be contacted and work shall only re-commence in the affected areas when the necessary/statutory authorisations or consents have been obtained as per conditions (xiv) and (xv) of the original Te Maunga Four Laning designation consent.

I concur with the requiring authority that the alteration to designation will not result in any adverse effects on archaeological sites at this location resulting from construction works due to an absence of any recorded archaeological features and the proposed mitigation measures. It is my opinion that the alterations will not affect the ability of the requiring authority to comply with the conditions of the original designation.

Landscape and Visual

The site will be visible to those residing at the adjoining property located to the east. The closer of these two neighbouring houses is partly screened from the proposed Contractor Area by some vegetation beside the house. The proposed fence at the site which will provide noise screening will also visually screen those residing at the adjacent property to the east. The requiring authority considers that the scale of the Contractor Area will be potentially similar to the keeping of large machinery and equipment found on many farms.

The rehabilitation of the Contractor Area once it is no-longer required will be undertaken in accordance with the Landscape and Rehabilitation Plan as required by condition 5 of the Tauranga Eastern Aterial Designation. The designating authority believes that the inclusion of this Contractor Area will widen but not alter the character or context of the TEL in this area.

The Council's Landscape Architect has reviewed the application, confirm it contains adequate information and concur with the application that potential adverse effects will be mitigated by existing vegetation and proposed screen fencing.

I concur with the requiring authority's assessment and the Council's Landscape Achitect's advice that this alteration to the designation will not result in any additional adverse effects on landscape or visual values, not already anticipated as part of the original designation at this location, due to the proposed mitigation and consistency with the conditions of the existing designation, in particular condition 7.3.1.

Ecological

The requiring authority believes that the widening of this designation will not have a significant effect on the ecology of these areas, as the areas is described as agricultural with modified ground conditions constituting open farmland. I concur

with the requiring authority that these alterations to the designation will not result in any adverse ecological effects at these locations.

Stormwater

Stormwater run-off from the Contractor Area will be managed under an Erosion and Sediment Control Plan as part of the Construction Management Plan for the TEL project as a whole. This plan will be submitted to Environment Bay of Plenty for review and approval prior to construction commencing. For these reasons the requiring authority considers that this alteration to designation is unlikely to result in any adverse stormwater effects at this location.

The Council's Development Engineer has considered the proposed alterations to designation and is satisfied that the existing conditions on the original designation will still cover this alteration. He believes that the proposal can proceed in accordance with the application submitted and no further engineering conditions are needed.

I concur with the requiring authority and the Council's Development Engineer that the alteration to the TEL designation will not result in any adverse stormwater effects at this location.

Traffic

The requiring authority had not undertaken any traffic assessment at the site as it is not yet known the likely traffic generation. The site will be accessed directly from the TEL and is isolated from public roads, therefore the requiring authority believes that there will be no adverse effects on public traffic as a result of the alteration. The Council's Senior Traffic Engineer agrees the traffic effects of the alteration will be less than minor.

I concur with the advice of the requiring authority and the Council's Senior Traffic Engineer that with respect to the traffic effects and I am satisfied that the purpose of the works will remain the same and consistent with the original designation and conditions of consent.

Dust

The requiring authority has advised that construction will be managed in the same manner and to the same standards as the rest of the TEM, therefore any dust issues will be managed and mitigated as set out in the Construction Management Plan to be prepared for the motorway construction. For this reason I conclude that the alteration to designation is unlikely to result in any adverse dust effects at this location. The purpose of the designation will remain the same and consistent with the original designation and its conditions of consent.

Hazardous Substances

The application introduces the storage and use of fuels as identified onsite. Specific details of the quantities of fuels to be stored and the storage facilities to be used by the TEL contractor have not yet been determined. The designating authority has stated that the contractor will comply with the permitted hazardous substances threshold of 0.2 which is a permitted activity in accordance with Section 18.1 of the Tauranga District Plan. The designating authority will be required to prepare, as a requirement of their Regional Consent, a Construction Management Plan (CMP). The designating authority is also required to submit for approval an Environmental Safety Plan as part of the CMP which will identify measures needed to protect the environment from accidental spills of fuel and chemicals. For this reason I conclude that the alteration to designation is unlikely

to result in any adverse effects from hazardous substances at this location. I am also satisfied that the purpose of the designation will remain the same and consistent with the original designation and its conditions of consent.

3.2 Consultation

Landowner

The subject land is owned by the Crown. Written approval has been provided by NZTA on behalf of the Crown. The requiring authority considers that the Crown and the owners and occupiers of the adjoining residential property are the only parties directly affected by the alteration to designation.

| Legal Description | Address | Affected Person |
|---------------------|--|--|
| Lot 5 DP 33121 | 143 Bell Road | Owner: Russell and Dulcie Taylor Occupier: Graeme Ardern Occupier: Tom and Diane Jeffery |
| Section 4 SO 410937 | Bell Road (Formerly part of 117 Bell Road) | Owner: The Crown New Zealand Transport Agency Kim Harris - Integrated Planning Manager BOP |

I concur with the requiring authority's assessment of directly affected parties. For the reasons outlined above in section 3.1 I consider there are no other parties directly affected by the proposed alteration to designation.

Tangata Whenua

The requiring authority advises that consultation with the relevant iwi and hapu on all the alterations to designations was undertaken in 2007. The TEM Combined Tangata Whenua Group has met several times and proposed a protocol for the pre-construction earthworks monitoring. To date, the key interests of Tangata Whenua have been the management of construction to avoid adverse effects on the environment, particularly the quality and quantity of stormwater in the local drains, reservoirs and harbour, and the management of any discovery of archaeological material in a culturally appropriate manner. The requiring authority advises that research to date has ensured that no known significant sites are affected by the project.

It is my opinion that appropriate consultation has been undertaken with Tangata Whenua as part of the original designation process and that the proposed alteration to designation does not trigger the need for additional consultation under the Council's Consultation with Tangata Whenua on Resource Consent Applications policy. Further it is my opinion that the proposed alterations to designations will not create any adverse effects of concern previously raised by Tangata Whenua which are not mitigated by the existing designations consent conditions.

3.3 Statutory Considerations

Under section 181(3) of the Resource Management Act 1991 the Council may alter a designation without the need for public notification, where:

- the alteration involves a minor change to the effects on the environment or to the designation boundaries; and

- the owner/occupiers of directly affected land have received written notice and agree with the alteration; and
- the Council and the requiring authority agree with the alteration.

For the reasons outlined in part 3.0, it is considered that the proposed alterations accord with the above criteria. As such, public notification is not required and the Council can simply alter the District Plan designations without further formality. Under these circumstances Section 168 to 179 of the RMA do not apply.

4.0 SECTION 181 RECOMMENDATION

Pursuant to Section 181 of the Resource Management Act 1991 it is considered that the alterations of the designations can be accepted with regard to there being no more than a minor change to the effects on the environment associated with the use of the land. In terms of any directly affected landowner, written approval has been obtained. It is considered that the alteration of the designation is not contrary to the purpose and principles of the RMA.

Tauranga City Council resolves:

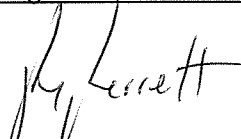
That pursuant to Section 181 of the Resource Management Act 1991, the New Zealand Transport Agency notice of requirement and plans submitted by Beca Carter Hollings & Ferner, referenced as 3932036-G259 Rev B, updated 07/09/2009, for alteration of Operative Tauranga District Plan for the inclusion of a contractor area in designation Tauranga Eastern Motorway TR16 at 117 Bell Road, Papamoa, legally described as Section 4 SO 410937 is accepted.

Recommended and Assessed by:



Emma Hilderink
Senior Environmental Planner

Delegated Authorisation by:



Rebecca Perrett
Principal Planner

Date: 1 March 2010

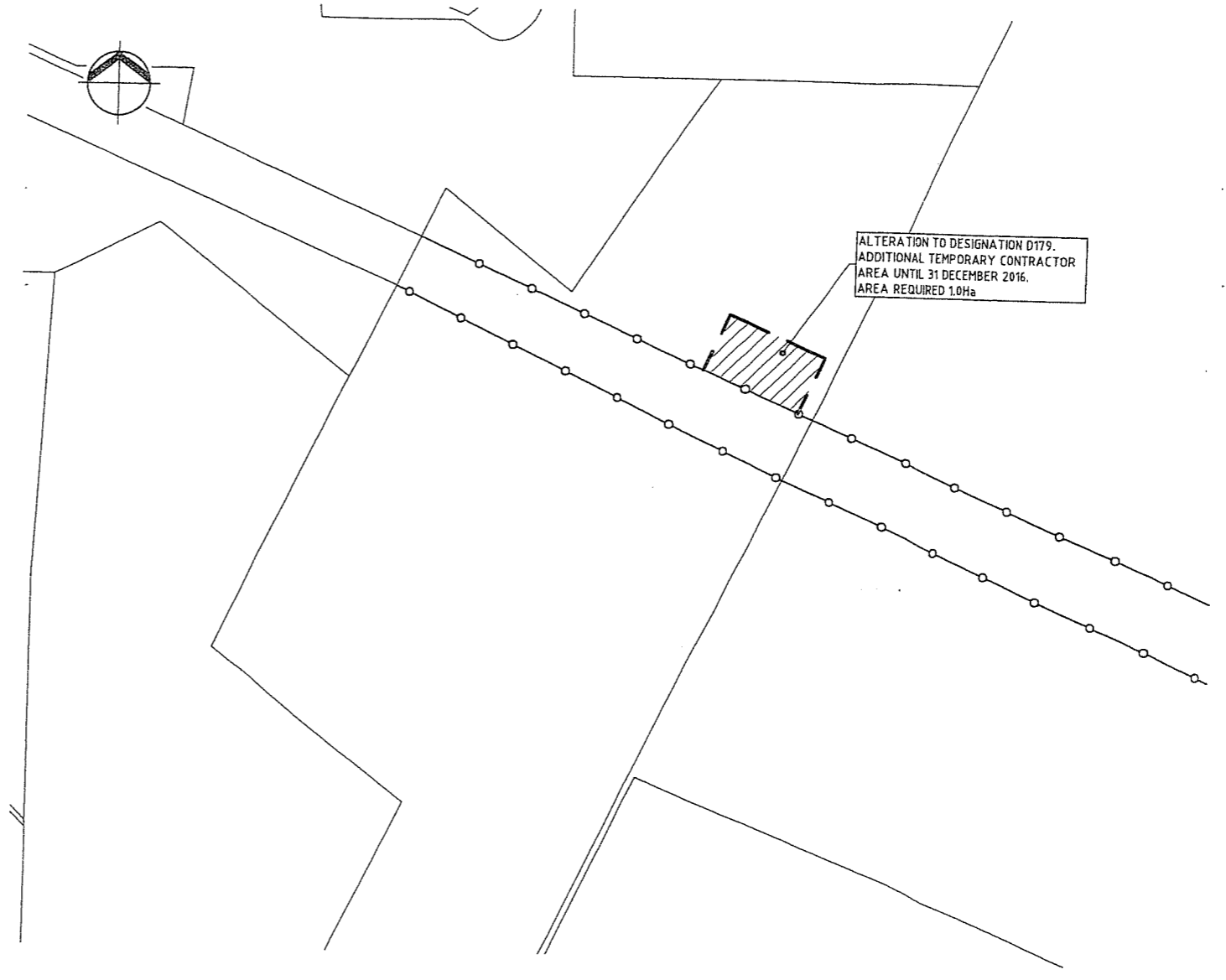


LOCALITY DIAGRAM
SCALE 1:20000

NOTE
LAND REQUIREMENTS ARE APPROXIMATE ONLY AND ARE SUBJECT TO DETAILED DESIGN AND FINAL LEGALISATION SURVEY

LEGEND

 - - - ALTERATION TO DESIGNATION
 —○— EXISTING DESIGNATION



ALTERATION TO DESIGNATION D179.
ADDITIONAL TEMPORARY CONTRACTOR AREA UNTIL 31 DECEMBER 2016.
AREA REQUIRED 1.0Ha

PROVISED
RC14792
- 1 FEB 2010
PLAN

PROPOSED BOUNDARY DETAILS
SCALE 1:4000

| No. | Revision | By | Chk | Appd | Date |
|-----|--------------------------|-----|-----|------|----------|
| B | DESCRIPTION TEXT CHANGED | MJH | TVH | TVH | 07.09.09 |
| A | FOR INFORMATION | MJH | TVH | TVH | 01.09.09 |

Drawing Originator:

Beca Engineers ■ Planners ■ Managers

| Original Scale (A1) AS SHOWN | Design Drawn | Design Dwg Verifier | Design Date | Approved For Construction* |
|-------------------------------|--------------|---------------------|-------------|----------------------------|
| Reduced Scale (A3) HALF SHOWN | MJH | | 31.08.09 | |

* Refer to Revision 1 for Original Signature

Client:

 NZ TRANSPORT AGENCY
 WAKA KOTAHI

Project: **TAURANGA EASTERN LINK**

Title: **DESIGNATION PLAN**
 PT SEC 8 BLK IV TE TEMU
 DP 22489 NZTA (EX STEINER)

FOR INFORMATION NOT FOR CONSTRUCTION

| Discipline | Drawing No. | Rev. |
|------------|--------------|------|
| CIVIL | 3932036-G259 | B |

DO NOT SCALE