

SH16 St Lukes / Great North Road Upgrade Project Overview for the Community Liaison Group

**Meeting 2 on 17 February 2014
Western Springs Garden Community
Centre**

959 Great North Road, Western Springs

Agenda

Welcome and introductions

- SH16 St Lukes / Great North Road Interchange Project
 - Project Overview
 - Timeline of works
 - Noise Walls
 - Traffic Management
 - Urban Design
 - Contact information
- Discussion

Introducing the team

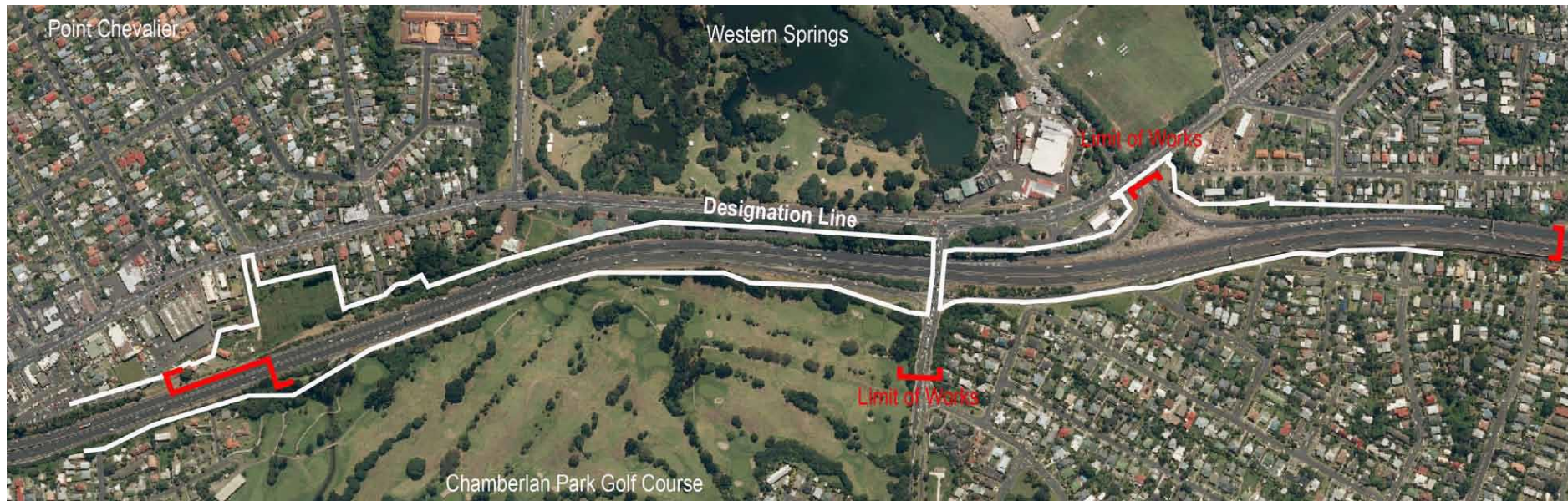
- Ronnie Salunga: NZ Transport Agency Project Manager
- Howard Marshall: Auckland Transport Project Manager
- Brett O’Leary: Leighton Project Manager
- Simon Mitchell: Leighton Stakeholder Manager
- David Hooker: Engineer’s Representative, Aurecon
- Martyn Francis: Design Manager, Aurecon
- Jala Shekho: NZ Transport Agency Communications Manager

Western Ring Route



Note: Location of dashed boundary lines are indicative only.

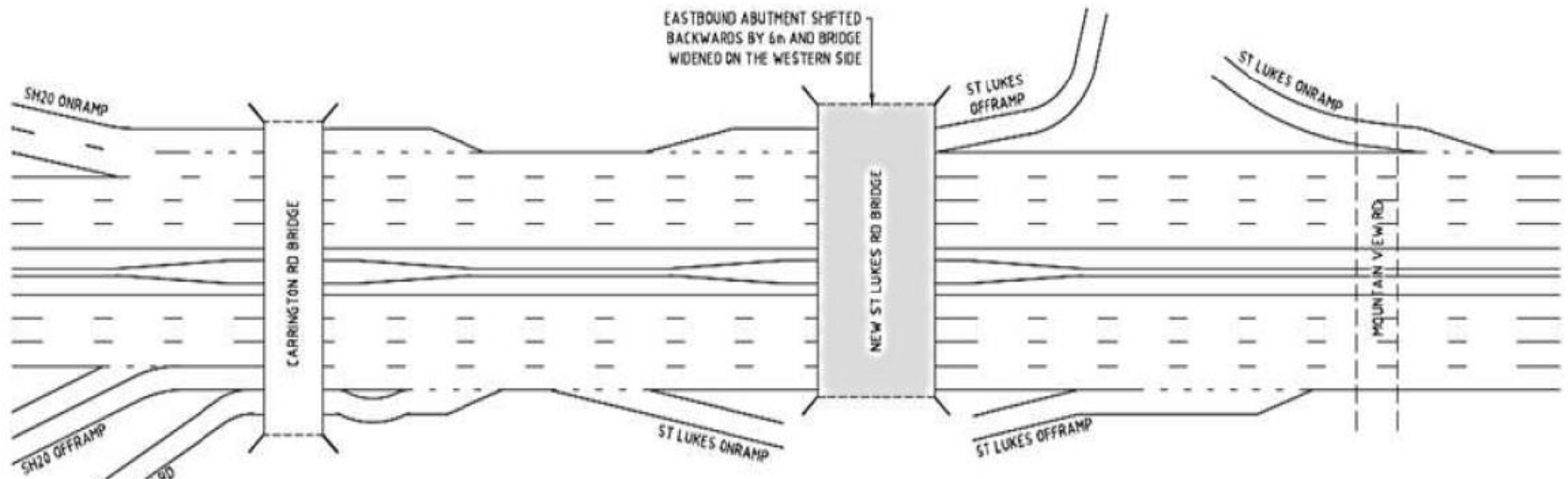
Project Overview – Limit of works



Project Overview – existing site



Project Overview – Final layout



Timeline of works

- **Site Establishment:**

Mid April 2014

- **Start of construction:**

Mid May 2014

- **Expected completion:**

End of 2016 – prior to the completion of the Waterview Tunnels

Pre-Stage 1: Bridge Pier Build in Median, Eastbound/Westbound Retaining Walls (May - July 2014)

PRE-STAGE 1

- Construct west side bridge pier
- Commence WB & EB widening (mostly Sector 1)
- Establish offices, compound and lay down areas
- Divert Telstra backbone from St. Lukes bridge towards the west
- Complete piling on northern abutment (west side)

- Access point
- Work zone
- Barrier
- Existing barrier
- End terminal



Pier Construction – West Side
 1. Remove existing median barriers
 2. Install bored piles
 3. Erect pier columns
 4. Construct headstock

Westbound Widening
 1. Site clearance
 2. Direct Telstra backbone
 3. Earthworks
 4. Retaining walls
 5. Drainage works

Eastbound Widening
 1. Site clearance
 2. Earthworks
 3. Retaining walls
 4. Drainage works

St. Lukes Bridge – North Side
 1. Site clearance
 2. Install bored piles up to edge of existing bridge through MSE material

TTM for PRE-STAGE 1

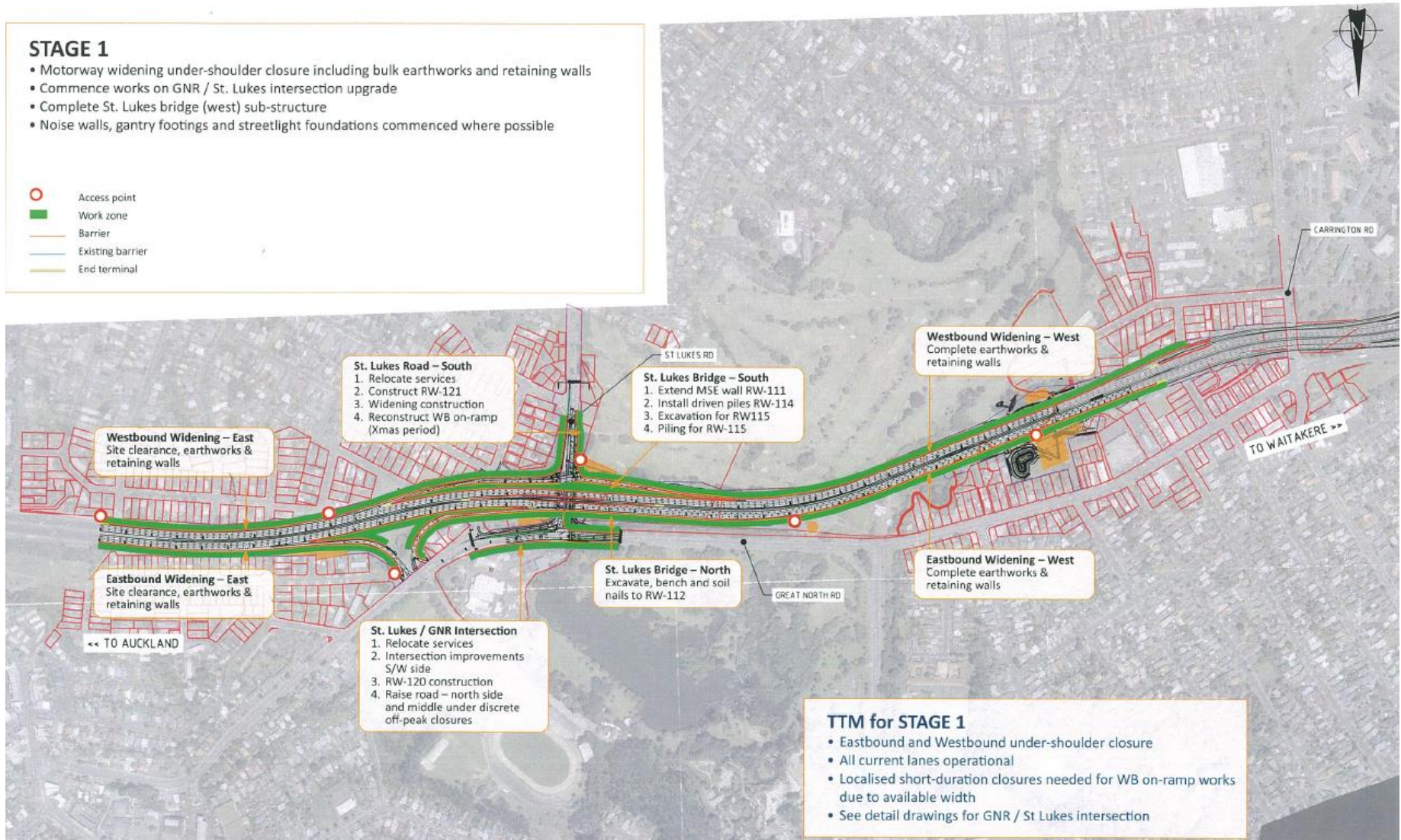
- Temporary surfacing on shoulders in vicinity of St. Lukes bridge
- Install median chicane using temporary barriers
- Shoulder closures in other areas as indicated
- Maintain existing barrier alignment under St. Lukes bridge

Stage 1: Eastbound/Westbound Retaining Wall and Widening, New Bridge Construction (July - September 2014)

STAGE 1

- Motorway widening under-shoulder closure including bulk earthworks and retaining walls
- Commence works on GNR / St. Lukes intersection upgrade
- Complete St. Lukes bridge (west) sub-structure
- Noise walls, gantry footings and streetlight foundations commenced where possible

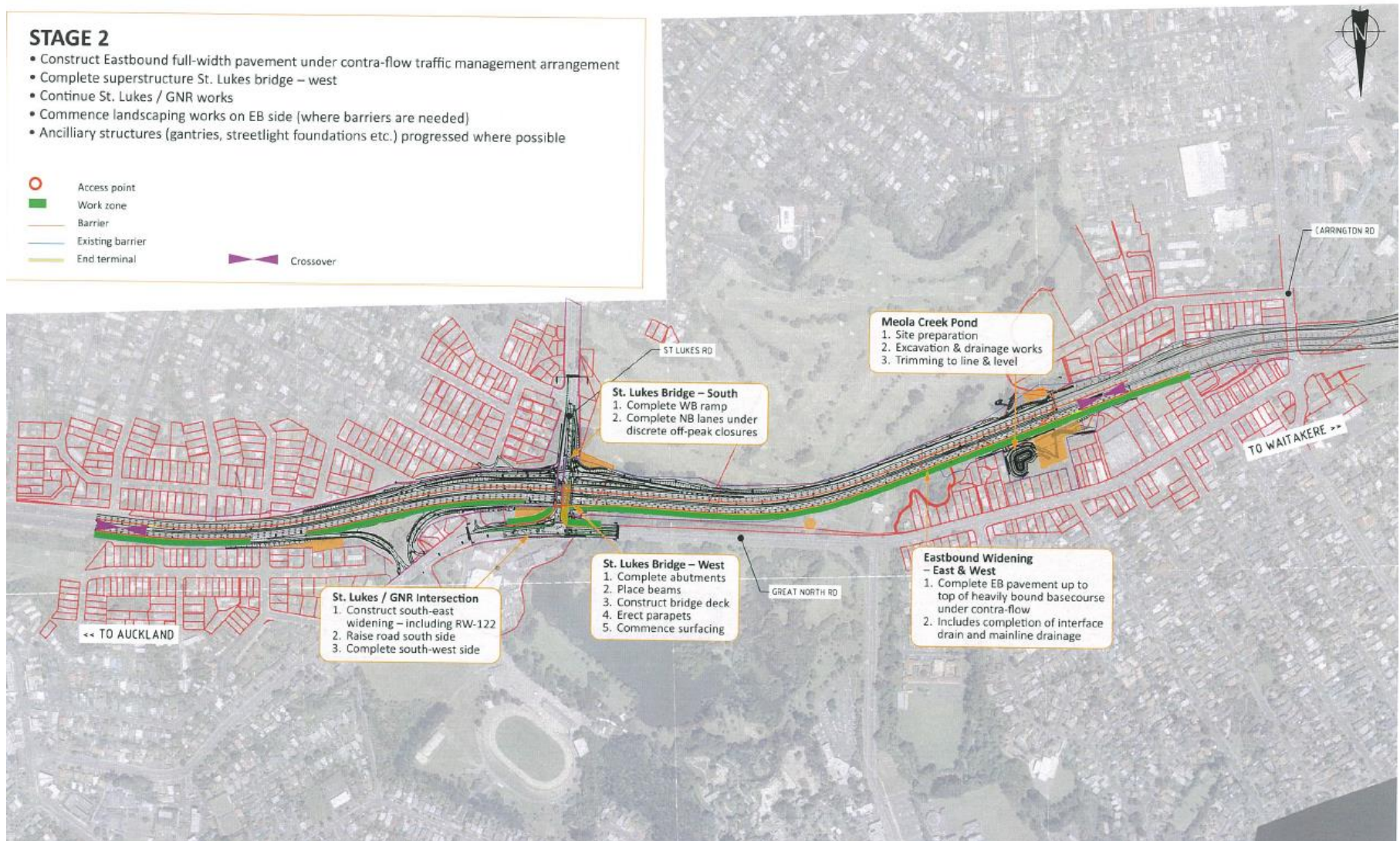
- Access point
- Work zone
- Barrier
- Existing barrier
- End terminal



Stage 2: Eastbound Pavement Widening, New Bridge Construction (Sept - Dec 2014)

STAGE 2

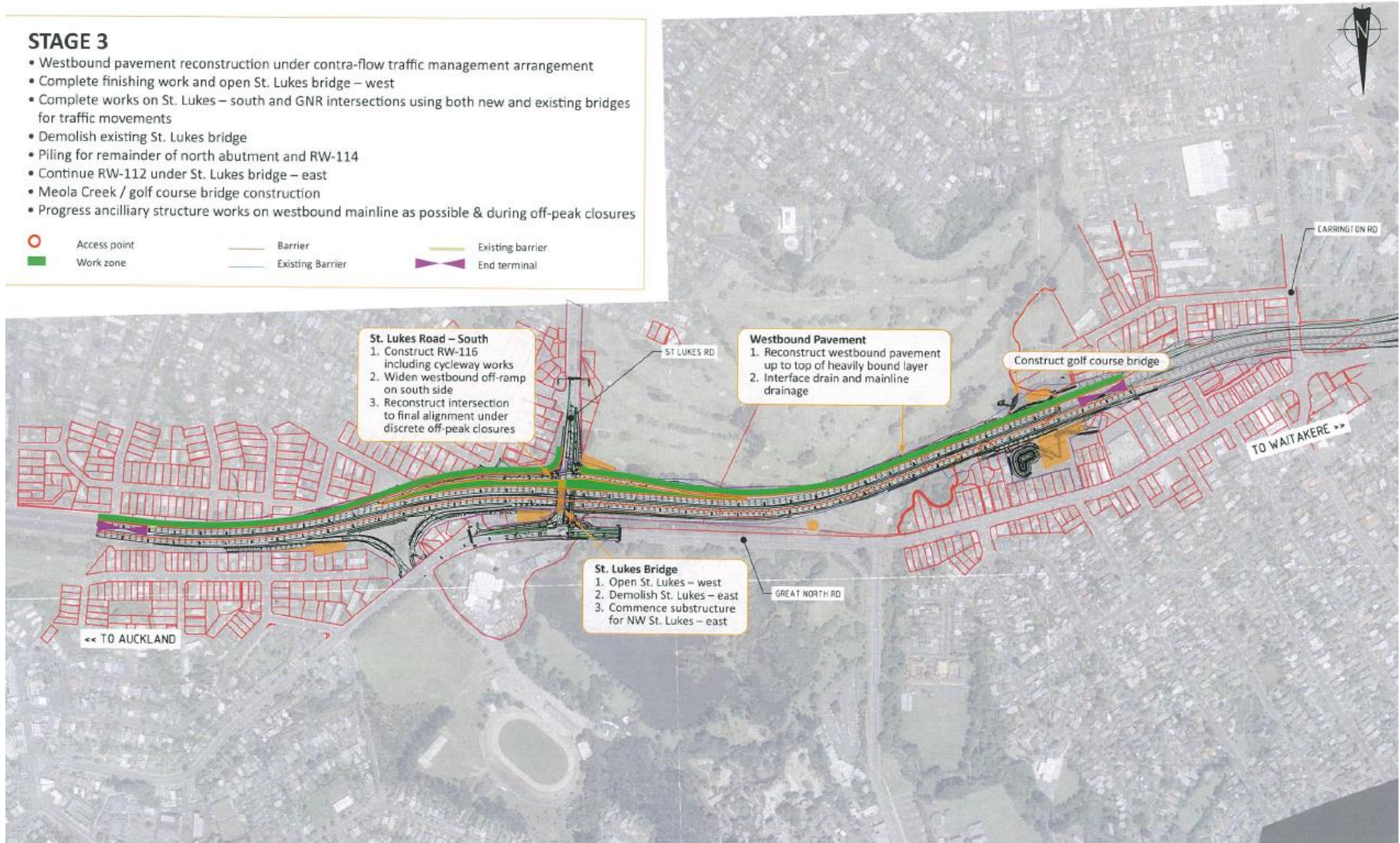
- Construct Eastbound full-width pavement under contra-flow traffic management arrangement
- Complete superstructure St. Lukes bridge – west
- Continue St. Lukes / GNR works
- Commence landscaping works on EB side (where barriers are needed)
- Ancillary structures (gantries, streetlight foundations etc.) progressed where possible



Stage 3: Westbound Pavement Widening, Demolish Old Bridge (Dec 2014 - May 2015)

STAGE 3

- Westbound pavement reconstruction under contra-flow traffic management arrangement
- Complete finishing work and open St. Lukes bridge – west
- Complete works on St. Lukes – south and GNR intersections using both new and existing bridges for traffic movements
- Demolish existing St. Lukes bridge
- Piling for remainder of north abutment and RW-114
- Continue RW-112 under St. Lukes bridge – east
- Meola Creek / golf course bridge construction
- Progress ancilliary structure works on westbound mainline as possible & during off-peak closures



Stage 4: Median Pavement and Central Barrier Replacement (June 2015 - Sep 2015)

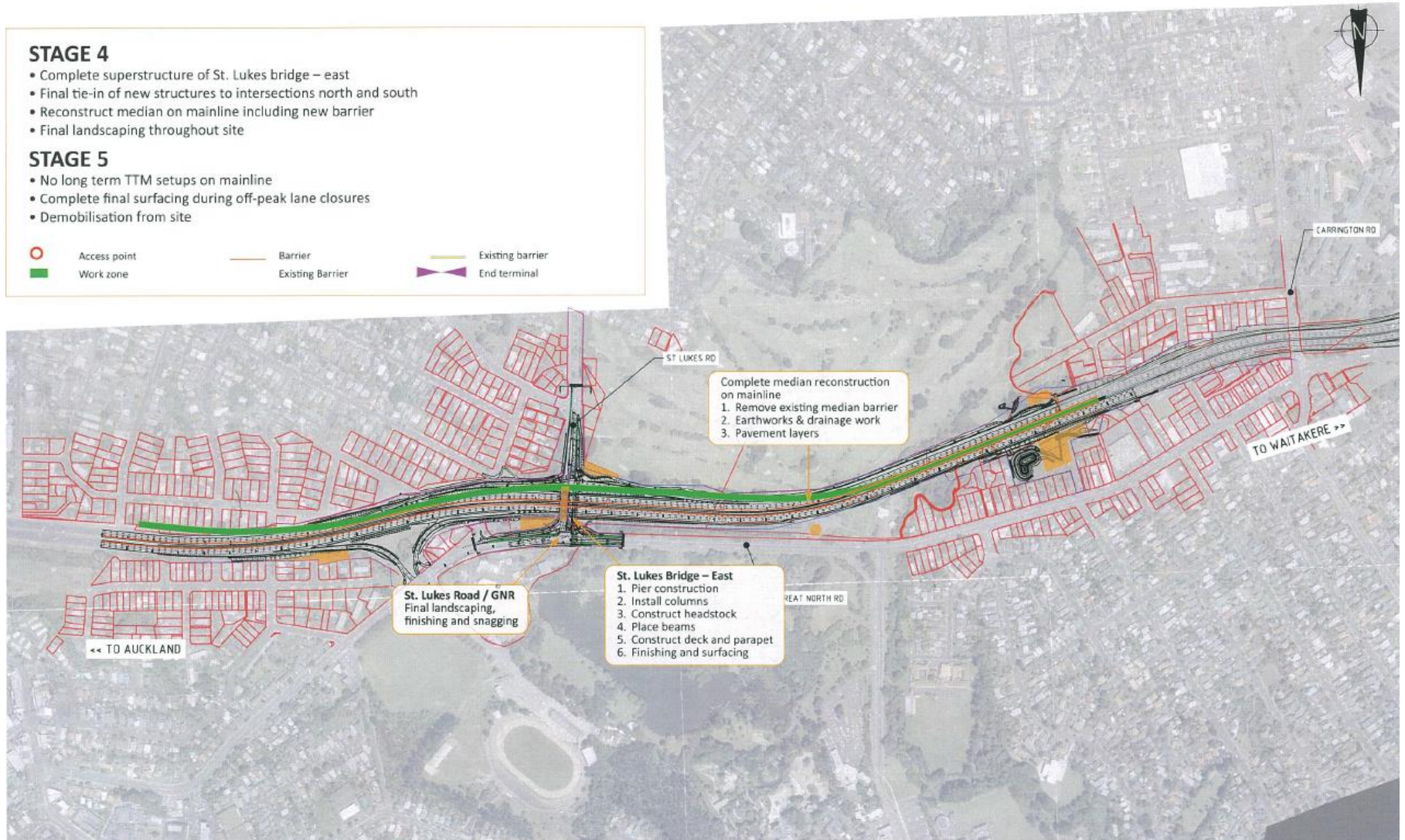
Stage 5: Final Pavement Surfacing

STAGE 4

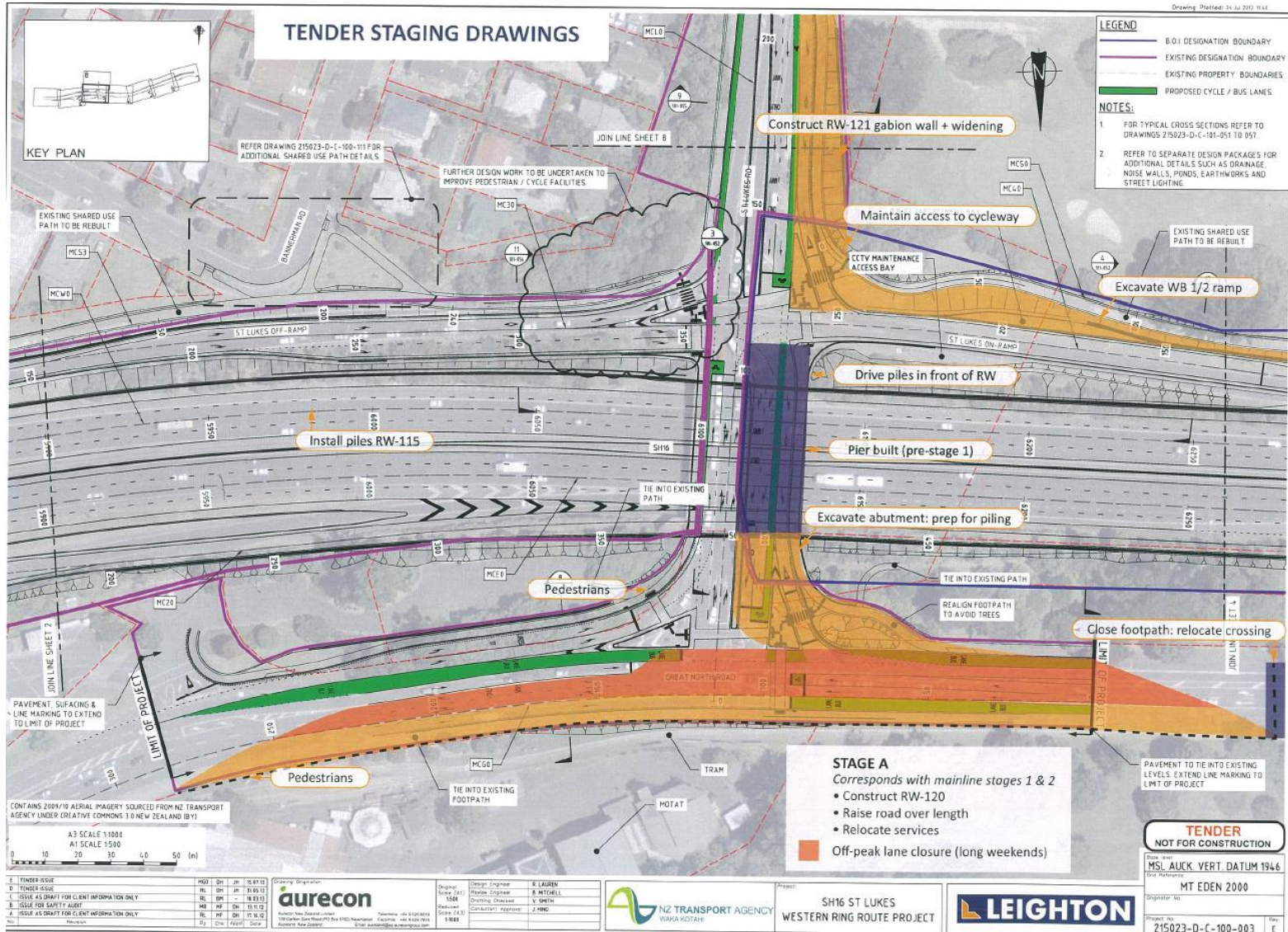
- Complete superstructure of St. Lukes bridge – east
- Final tie-in of new structures to intersections north and south
- Reconstruct median on mainline including new barrier
- Final landscaping throughout site

STAGE 5

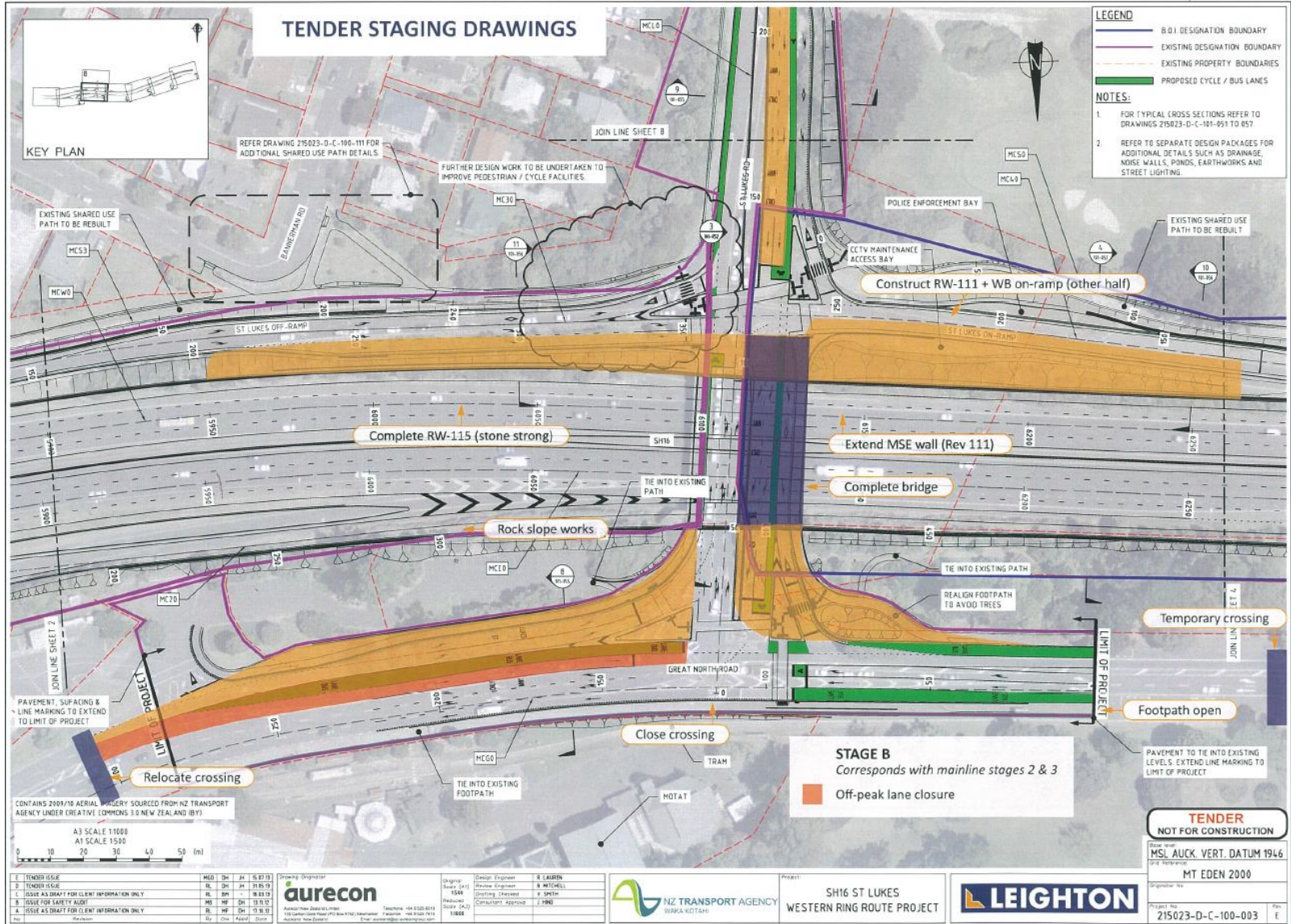
- No long term TTM setups on mainline
- Complete final surfacing during off-peak lane closures
- Demobilisation from site



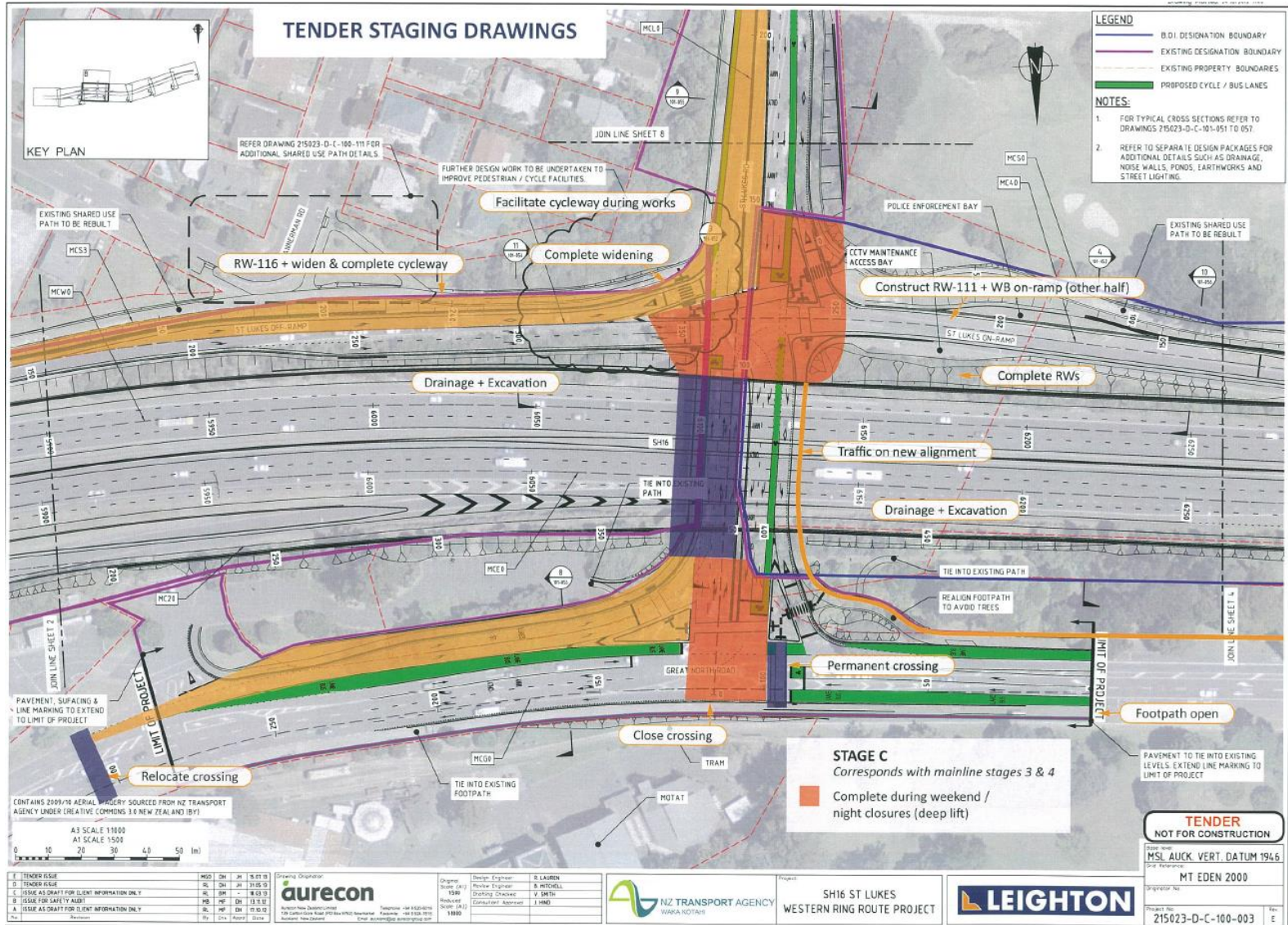
Stage A: Great North Road Northbound Lane Works (May -Dec 2014)



Stage B: Great North Road Eastbound Lane Works (Dec 2014 - Feb 15)



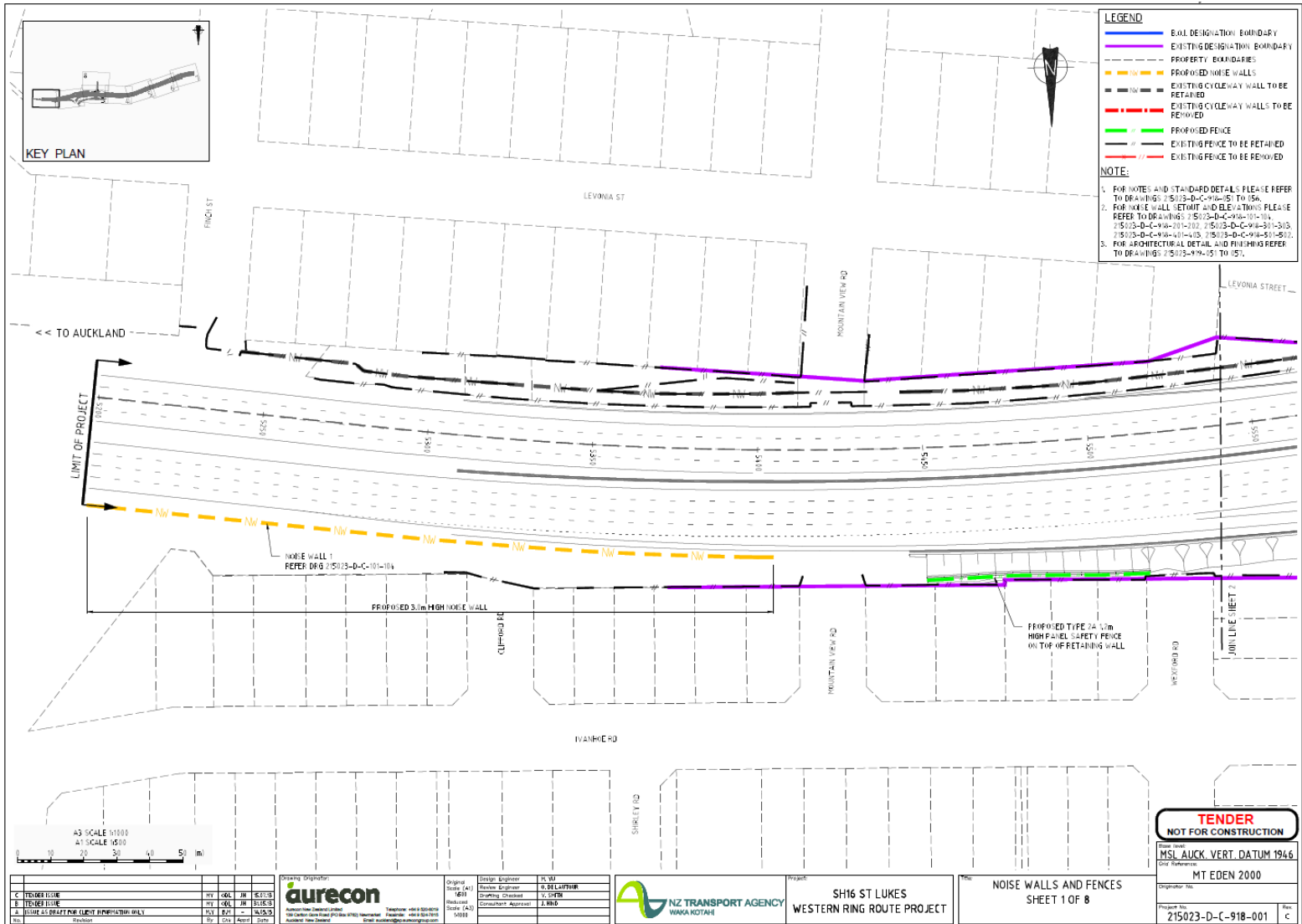
Stage C: Great North Road Southbound west works (Feb 2015 - July 2015)



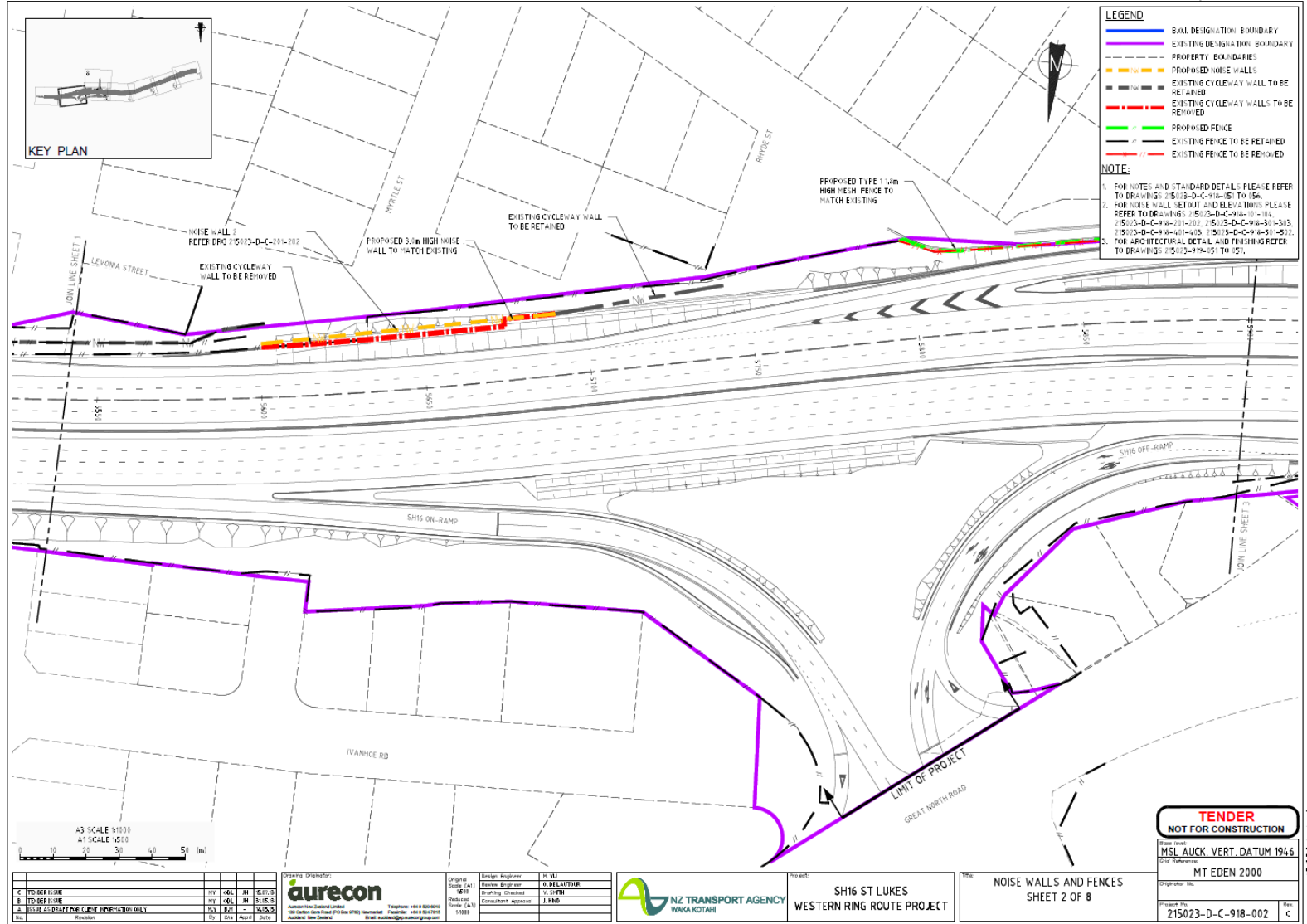
Noisewalls – Temporary and Permanent

- **There are five permanent noise walls identified.**
 - Due to be completed by end of this year.
- **Currently writing construction noise and vibration management plan for submission for approval.**
 - May include temporary noise walls but this analysis has not been finalised.
 - Will have to meet Board Of Inquires (BOI) conditions.
- The BOI also outlines the process that we will undertaken if we cannot meet the requirements of the BOI.

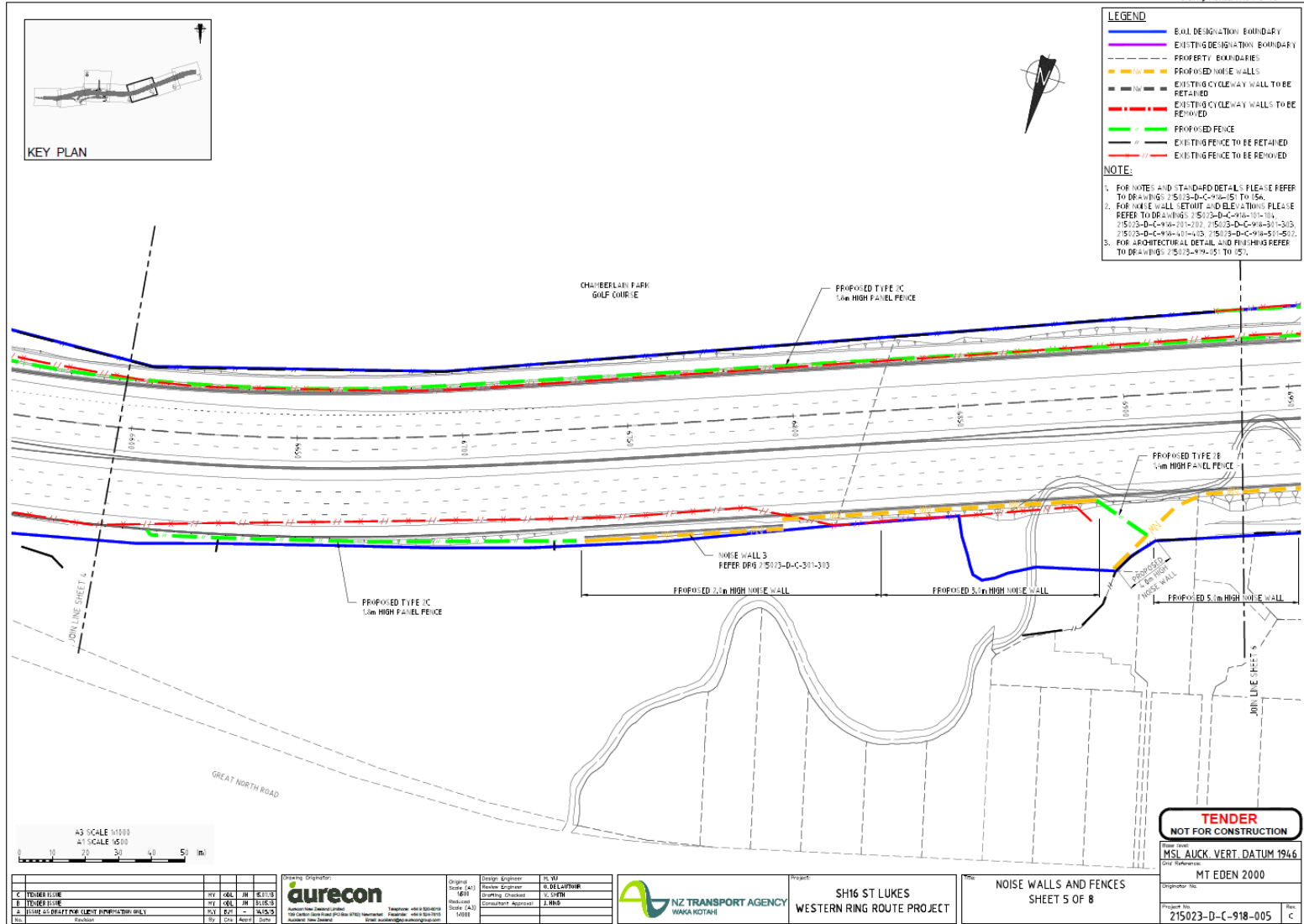
Noisewalls Location – Permanent



Noisewalls Location – Permanent



Noisewalls Location - Permanent



Rev	Description	By	CHK	Appr	Date
1	ISSUE AS PER CLIENT INFORMATION ONLY	MS	MS	MS	14/03/22
2		MS	MS	MS	14/03/22

Working Organisation

aurecon

Head Office: 250 Queen Street, Auckland
 Auckland: 100 Bankers Quay, Auckland
 Hamilton: 100 Albert Street, Hamilton
 Christchurch: 100 Cashel Street, Christchurch
 Dunedin: 100 Rattray Street, Dunedin
 Wellington: 100 Lambton Quay, Wellington
 Phone: +64 9 300 9000
 Fax: +64 9 300 9001
 Email: aurecon@aurecon.co.nz

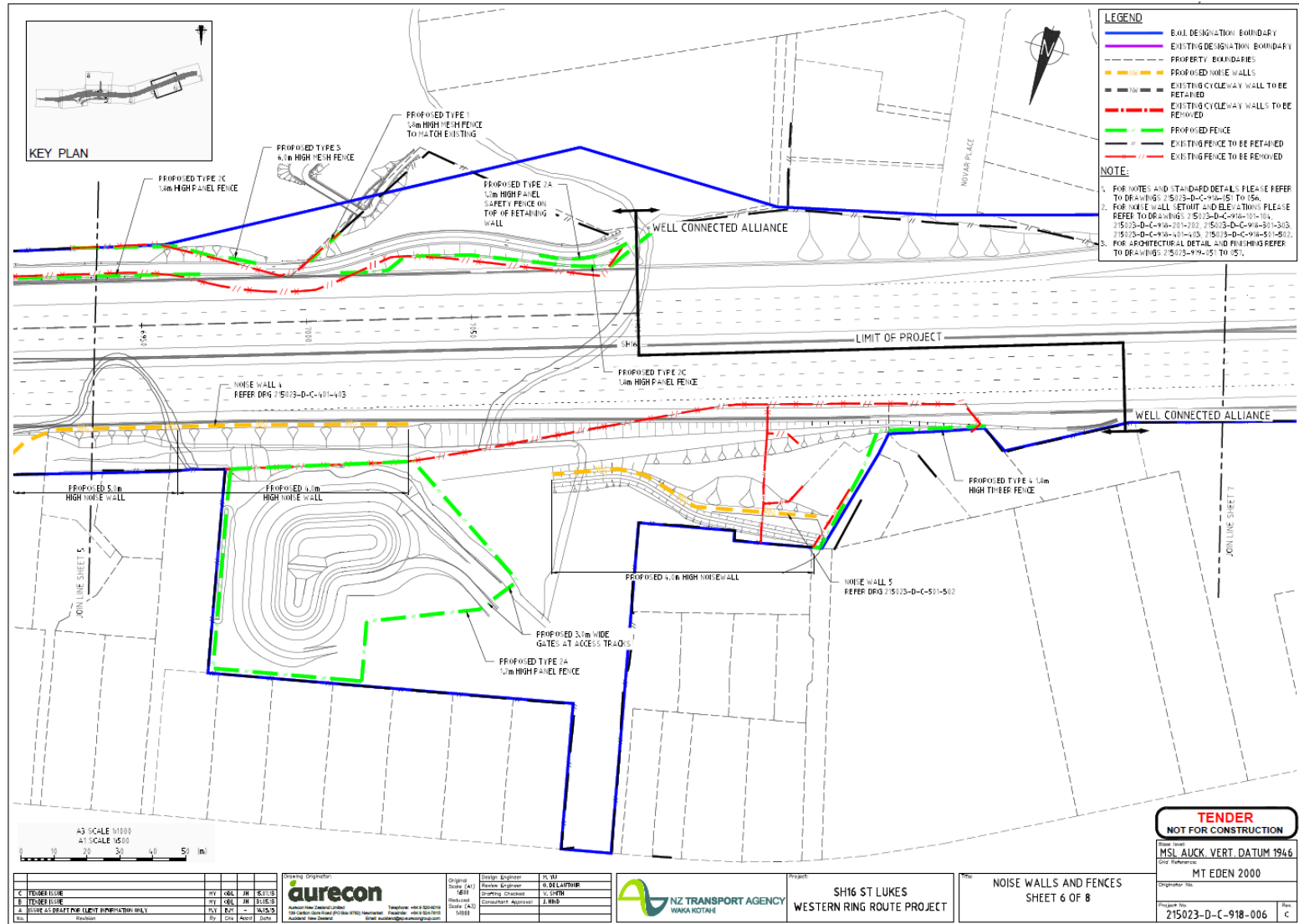
Original Scale (A3): 1:500	Design Engineer: N. MUIR
Reviewed Scale (A4): 1:1000	Review Engineer: G. BELLEFLORE
Released Scale (A2): 1:500	Drawing Checked: J. SIMON
10001	Consent Approved: J. BULL

NZ TRANSPORT AGENCY
 WAKA KOTAHU

Project: SH16 ST LUKES WESTERN RING ROUTE PROJECT

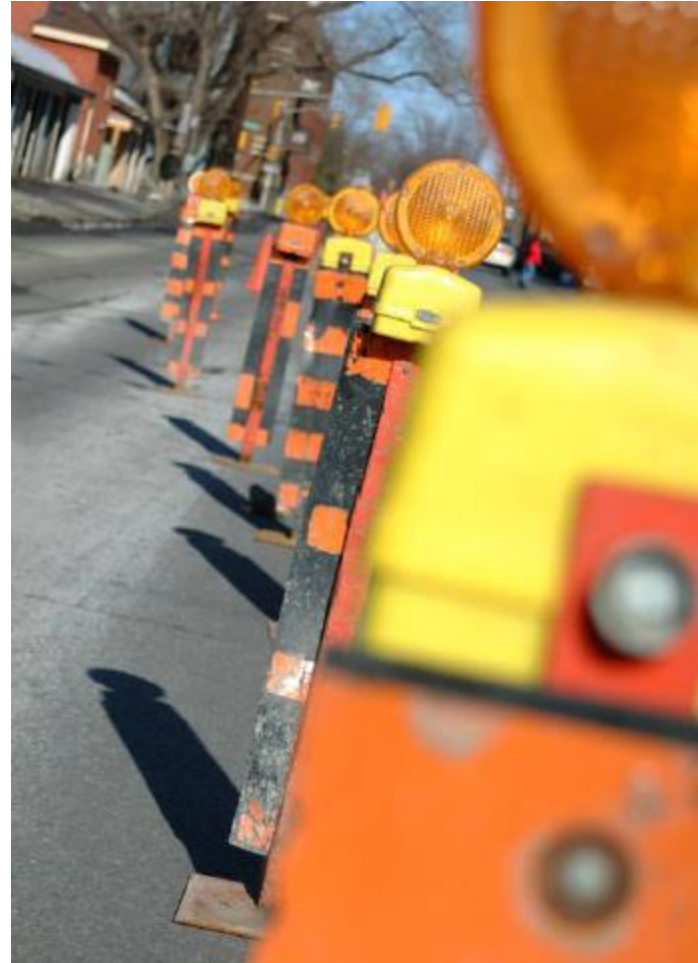
Sheet: NOISE WALLS AND FENCES SHEET 5 OF 8

Noisewalls Location – Permanent



Traffic Management

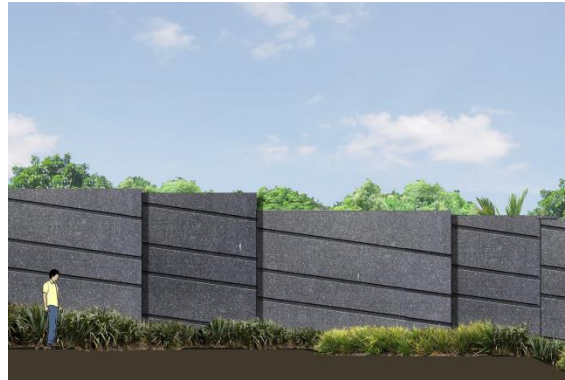
- During peak hour, all motorway lanes and pedestrian/cycleway will be kept open
- Temporary lane closures off-peak
- Speed restrictions for worker and motorist safety
- Minimal effects during peak hour



Project Overview – Urban Design



L-Shaped Barrier (Sand Blast)



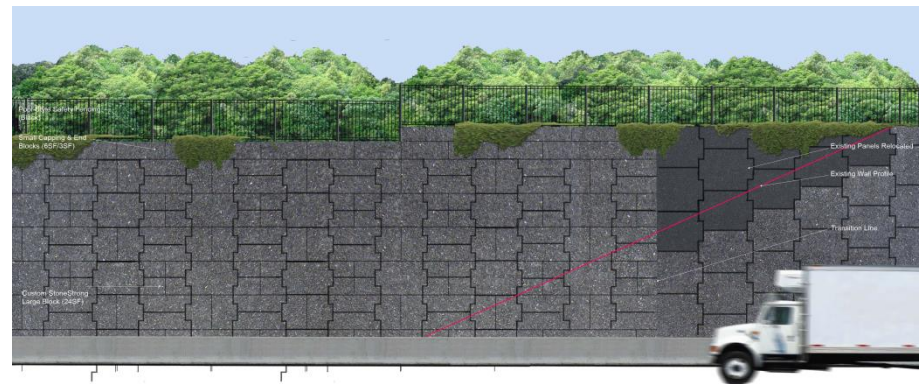
Noise Walls



Artificial Rock Bridge Abutment



Chamberlain Park Golf Bridge



Southern Abutment with Retaining Wall Extension

St Lukes Road Overbridge – Artistic impression



More information

- Community Liaison Group (CLG) meetings
- Regular project updates
- Visit www.nzta.govt.nz/projects/wrr
- Visit www.nzta.govt.nz/stayconnected
- Simon Mitchell – Stakeholder Liaison Manager:
simon.mitchell@leicon.co.nz / 027 496 5720.
- Transport Agency: 0800 44 44 49 (mention St Lukes)

Questions and discussion

