

**CAUSEWAY ALLIANCE**  
working for our **thriving** city



## SH16 CAUSEWAY UPGRADE PROJECT



**Monthly Environmental Report**

**April 2013**

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## 1.0 INTRODUCTION

### 1.1 PURPOSE OF THE REPORT

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To meet the reporting requirements for the SH16 Causeway Alliance a monthly report is required by the Board of Inquiry to be prepared and forwarded to Auckland Council in the second week of the following month.

This report describes and details the month of April 2013.

Milestones achieved during the period include:

- Auckland Council approval of SH16 Causeway Upgrade CEMP including sub-plan appendices.
- Auckland Council planning approval for Northern Asymmetric Widening and revised construction methods received.
- Geotechnical site investigation works completed and confirmation of assumed geotechnical parameters of existing causeway obtained.
- Value Engineering activities process completed, detailed design progressing, design packages being issued for review.
- Site establishment commenced at Taupuni (temporary encampment) – (Te Atatu Road).
- Construction planning continuing, interfacing with detailed design programme and procurement.
- Project Management Plans development continues towards a 'readiness review' end May 2013.
- Agreement reached of appropriate geometric layout between Causeway Bridge and SH16 over GNR Bridge. Reconciliation of cost adjustment is delayed awaiting detailed design.
- Agreement reached of appropriate sequence of works and access required to abutments of Whau River bridges.

## 2.0 RESOURCE CONSENTS

### 2.1 CONSENTS TRIGGERED BY WORKS

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<u>Consent No.</u>	<u>Purpose</u>	<u>Description</u>
<u>Alteration to Designation</u>		
<u>EPA 10/2.003</u> <u>(ACC: Plan</u> <u>Modification</u> <u>202)</u>	<u>Alteration to</u> <u>designation A07-</u> <u>01, SH16.</u> <u>causeway and</u> <u>Rosebank</u> <u>Peninsula –</u> <u>NOR2.</u>	<u>Alteration to existing designation at Rosebank Interchange and Patiki</u> <u>bridges, including part of Rosebank Park Domain; modifications to</u> <u>land on existing causeway, ancillary safety and operational services,</u> <u>and maintenance, relocation of services, pedestrian and cycleway,</u> <u>landscaping and planting etc</u>

Consent Number	Consent	Purpose	Conditions
<b>Land Use Consents</b>			
<u>EPA 10/2.010</u> <u>(ARC: 38313)</u>	<u>Land Use Consents – Land Disturbance (Sectors 1 – 9 inclusive)</u>	<u>Earthworks and roading/ tracking/ trenching during construction - within and outside the Sediment Control Protection Area (includes the associated discharge of sediment laden water as a discharge consent)</u>	As per Schedule B of the Board of Inquiry Designation and Consent conditions
EPA 10/2.009 (ACC: R/LUC/2010/3396)	Land Use Consents – Activity on reclaimed land (Sectors 2 and 4)	Land Use Consent pursuant to Section 89(2) for the construction, operation and maintenance and ancillary activities of a State highway.	As per Schedule B of the Board of Inquiry Designation and Consent conditions plus new Condition RC.1B
<b>Coastal Consents</b>			
<u>EPA 10/2.030</u> <u>(ARC: 38334)</u>	<u>Activities within the CMA</u>	<u>For ongoing use of CMA by the State highway for transport purposes and associated construction activities including conveyance of spoil. [Sectors 2 and 4]</u>	<u>As per Schedule B of the Board of Inquiry Designation and Consent conditions</u>
EPA 10/2.031 (ARC: 38335)	Erection of Temporary Structures in the CMA (Sectors 2 & 4)	This consent relates to the erection of temporary (construction) structures within the CMA including piers, ramps, bridges, conveyor structures, temporary staging platforms, temporary bird roost, stormwater discharge outfalls and other consequential activities such as disturbance and/or vegetation removal. In the CMA General Management Area (GMA), Coastal Protection Area (CPA) 2 and Mooring Management Area – Henderson Creek, Whau River and Pt Chevalier.	<u>As per Schedule B of the Board of Inquiry Designation and Consent conditions plus new Condition RC.1B</u>
EPA 10/2.032 (ARC: 38336)	Erection of Permanent Structures in the CMA (Sectors 2 & 4)	This consent relates to the construction of permanent (operational phase) structures within the CMA including piers, ramps, bridges, stormwater discharge outfalls and other consequential activities such as disturbance and/or vegetation removal. In GMA, CPA 2 and Mooring Management Area – Henderson Creek, Whau River and Pt Chevalier.	<u>As per Schedule B of the Board of Inquiry Designation and Consent conditions plus new Condition RC.1B</u>
EPA 10/2.033 (ARC: 38338)	Erection of Temporary Structures in the CMA (Sectors 3	This consent relates to the erection of temporary (construction) structures within the CMA including piers, ramps, bridges, conveyor structures, temporary staging	<u>As per Schedule B of the Board of Inquiry Designation and Consent conditions plus new Condition RC.1B</u>

	and 4)	platforms, stormwater discharge outfalls and other consequential activities such as disturbance and/or vegetation removal. In CPA 1 – Waterview Estuary.	
EPA 10/2.034 (ARC: 38339)	Erection of Permanent Structures in the CMA (Sectors 3 and 4)	This consent relates to the construction of permanent (operational phase) structures within the CMA including piers, ramps, stormwater discharge outfalls and other consequential activities such as disturbance and/or vegetation removal. In CPA 1 – Waterview Estuary.	<u>As per Schedule B of the Board of Inquiry Designation and Consent conditions plus new Condition RC.1B</u>
<u>EPA 10/2.037</u> (ARC: 36576)	<u>Reclamation in the CMA (Sectors 1 (0.11ha) and 2 (approx 0.4ha))</u>	<u>This consent relates to the temporary reclamation for access and construction purposes and permanent reclamation associated with motorway widening in CPA 2.</u>	<u>As per Schedule B of the Board of Inquiry Designation and Consent conditions plus new Condition RC.1B</u>
EPA 10/2.038 (ARC: 38342)	Reclamation in the CMA (Sector 4 (approx 4.5ha))	This consent relates to reclamation for access and construction purposes and permanent reclamation associated with motorway widening in CPA 1, north and south of causeway and includes associated vegetation removal and diversion of estuarine channels (including sediment works associated with diversion) required for the mitigation of effects on the reclamation. The Plan states that any non complying consent under 13.5.3 is a restricted coastal activity in specific conditions.	<u>As per Schedule B of the Board of Inquiry Designation and Consent conditions plus new Condition RC.1B</u>
EPA 10/2.039 (ARC: 38343)	Disturbance of Foreshore and Seabed (Sectors 1, 2, 4 and 5)	Disturbance of the foreshore and seabed during construction including vegetation removal, use of motor vehicles, disturbance of sediment, temporary structures and erosion and sediment control measures including, in a GMA, CPA2 and Mooring Management Area for construction:  Sector 1 - Stormwater wetland and associated reclamation; Outfall discharging into Henderson Creek. Sector 2 - Temporary staging platforms within Whau River; Piles for Whau River Bridges; Piles for new pedestrian/cycle facility; Rock lined channels.  Sectors 4 and 5 (north eastern side of causeway) - Temporary staging platforms adjacent to Pt Chevalier;	<u>As per Schedule B of the Board of Inquiry Designation and Consent conditions plus new Condition RC.1B</u>

		Piles for ramps adjacent to Pt Chevalier.	
EPA 10/2.040 (ARC: 38344)	Disturbance of Foreshore and Seabed (Sector 2)	Disturbance of the foreshore and seabed for vegetation removal, including mangrove removal, in any CPA 2. This includes the removal of mangroves to the west of Rosebank Park Domain.	<u>As per Schedule B of the Board of Inquiry Designation and Consent conditions plus new Condition RC.1B</u>
EPA 10/2.041 (ARC: 38345)	Disturbance of Foreshore and Seabed (Sectors 4 and 5)	Disturbance of the foreshore and seabed during construction including vegetation removal and mangrove removal, use of motor vehicles, disturbance of sediment, temporary structures and erosion and sediment control measures including, in CPA1, to access existing lawful structures, but excluding the disturbance consequential to activities under which other consents are sought. This includes disturbance for activities such as machinery access to temporary construction areas in the CMA (e.g. the estuary, Causeway Bridges, pedestrian/cycle way facility, coastal protection works, rock revetment / batters, and temporary staging platforms within Oakley Inlet etc).	<u>As per Schedule B of the Board of Inquiry Designation and Consent conditions plus new Condition RC.1B</u>
<u>EPA 10/2.042</u> (ARC: 38346)	<u>Disturbance of Foreshore and Seabed (Sectors 4 and 5)</u>	<u>The use of motor vehicles in any CPA</u>	<u>As per Schedule B of the Board of Inquiry Designation and Consent conditions plus new Condition RC.1B</u>
EPA 10/2.043 (ARC: 38347)	Taking and use of inner coastal water (Sectors 2 and 4)	The taking and use of inner coastal water for use in the proposed coffer dam (construction of the reclamation).	<u>As per Schedule B of the Board of Inquiry Designation and Consent conditions</u>
EPA 10/2.044 (ARC: 38348)	Taking and use of inner coastal water (Sectors 2 and 4)	The damming and impounding of inner coastal water in the coffer dam during construction – General Management Area	<u>As per Schedule B of the Board of Inquiry Designation and Consent conditions plus new Condition RC.1B</u>
EPA 10/2.045 (ARC: 38349)	Damming and impounding of inner coastal water (Sectors 2 and 4)	The damming and impounding of inner coastal water in the coffer dam during construction – CPA1	<u>As per Schedule B of the Board of Inquiry Designation and Consent conditions plus new Condition RC.1B</u>
<u>EPA 10/2.046</u>	<u>Discharge of Contaminants</u>	<u>This consent relates to the discharge of contaminants during</u>	<u>As per Schedule B of the Board of Inquiry Designation and Consent</u>

<u>(ARC: 38350)</u>	<u>(Sectors 1 through 5)</u>	<u>construction into the CMA and discharge of contaminants in stormwater flows during construction along Sectors 1 – 5, including point source and sheet flow discharges.</u>	<u>conditions</u>
<u>EPA 10/2.047 (ARC: 38351)</u>	<u>Discharge of Contaminants (Sectors 1 through to 5)</u>	<u>This consent relates to the discharge of contaminants during construction into the CMA and discharge of stormwater during construction along Sectors 1 – 5, including point source and sheet flow discharges</u>	<u>As per Schedule B of the Board of Inquiry Designation and Consent conditions</u>
<u>EPA 10/2.049 (ARC: 38353)</u>	<u>Discharge of Contaminants (Sector 2)</u>	<u>This consent relates to the permanent discharge of stormwater to the CMA for the operation of the Project – Sector 2 (Whau River, CPA 2 and Mooring Management Area).</u>	<u>As per Schedule B of the Board of Inquiry Designation and Consent conditions</u>
<u>EPA 10/2.050 (ARC: 38354)</u>	<u>Discharge of Contaminants (Sector 4)</u>	<u>This consent relates to the permanent discharge of stormwater to the CMA for the operation of the Project in Sector 4 (Causeway and Interchange, CPA1).</u>	<u>As per Schedule B of the Board of Inquiry Designation and Consent conditions</u>
<u>EPA 10/2.052 (ARC: 38356)</u>	<u>Occupation of CMA (Sector 1 and 2)</u>	<u>Occupation of the CMA by permanent structures in, on and over the seabed and foreshore for general state highway widening including piles and piers for new and widened structures including: Sector 1- Stormwater wetland pond Sector 2- Whau River Bridge; Whau River pedestrian/cycle facility</u>	<u>As per Schedule B of the Board of Inquiry Designation and Consent conditions plus new Condition RC.1B</u>
<u>EPA 10/2.054 (ARC: 38359)</u>	<u>Occupation of CMA (Sector 2)</u>	<u>This consent relates to the occupation of the stormwater outfalls for – Sector 2 (Whau River, CPA 2 and Mooring Management Area).</u>	<u>As per Schedule B of the Board of Inquiry Designation and Consent conditions</u>
<u>EPA 10/2.055 (ARC: 38360)</u>	<u>Occupation of CMA (Sector 4)</u>	<u>This consent relates to the occupation of the stormwater outfalls for – Sector 4 (Causeway Interchange (Waterview Inlet and surrounds, CPA 1).</u>	<u>As per Schedule B of the Board of Inquiry Designation and Consent conditions plus new Condition RC.1B</u>
<u>EPA 10/2.056 (ARC: 38361)</u>	<u>Occupation of CMA (Sectors 4 and 5)</u>	<u>Occupation of the CMA for construction works in, on and over the seabed and foreshore for Project works including stormwater outfall and ancillary works in General Management Area.</u>	<u>As per Schedule B of the Board of Inquiry Designation and Consent conditions plus new Condition RC.1B</u>
<u>EPA 10/2.057 (ARC: 38362)</u>	<u>Occupation of CMA (Sectors 1 and 2)</u>	<u>Occupation of the CMA for construction works in, on and over the seabed and foreshore for Project works including piles and</u>	<u>As per Schedule B of the Board of Inquiry Designation and Consent conditions</u>



		<u>piers construction, reclamation construction and ancillary works in CPA2.</u>	
EPA 10/2.058 (ARC: 38363)	Occupation of the CMA (Sectors 3 and 4)	Occupation of the CMA for construction works in, on and over the seabed and foreshore for Project works including piles and piers construction, reclamation construction and ancillary works in CPA1.	<u>As per Schedule B of the Board of Inquiry Designation and Consent conditions plus new Condition RC.1B</u>
EPA 10/2.059 (ARC: 38364)	Occupation of the CMA (Sector 4 and 5)	Occupation of the CMA by permanent structures in, on and over the seabed and foreshore for general motorway widening including piles and piers for new and widened structures including: Sector 4- Causeway Bridges; Causeway pedestrian/cycle facility; Stormwater outfalls Sector 5- Great North Interchange Ramps; Heritage bridge (pedestrian); Stormwater outfalls	<u>As per Schedule B of the Board of Inquiry Designation and Consent conditions plus new Condition RC.1B</u>
<u>EPA 10/2.060</u> (ARC: 38365)	<u>Activities within the CMA (Sectors 1, 2, 4, 5)</u>	<u>This consent relates to the ongoing use, operation and maintenance of CMA by the State highway for transport purposes.</u>	<u>As per Schedule B of the Board of Inquiry Designation and Consent conditions</u>
<u>EPA 10/2.061</u> (ARC: 38366)	<u>Activities within the CMA (Sectors 1, 2, 4, 5)</u>	<u>This consent relates to the ongoing use, operation and maintenance of CMA by the State highway for transport (as an activity not provided for as a permitted, controlled or restricted discretionary activity, and is not prohibited by the Plan).</u>	<u>As per Schedule B of the Board of Inquiry Designation and Consent conditions</u>

## 2.2 ADDITIONAL CONSENTS REQUIRED

### 2.2.1 Section 127; New Condition RC.1B

Auckland Council granted the NZTA consent on 19 February 2013 to change the wording of BOI Condition RC.1 to insert a new Condition RC.1B to the conditions of coastal consents 38335, 38336, 38338, 38339, 38342, 38345, 38356, 35361, 38363, 38364, 38360, 36576, 38346, 38348, 38349, 38344, 38343, R/LUC/2010/3396 as it relates to the SH16 Causeway (Sectors 2, 3 and 4 of the Waterview Connection Project) only.

The wording of Condition RC.1B is as follows:

#### **RC.1B**

Except as modified by the conditions below, the SH16 Causeway Upgrade Project works (Sectors 2, 3 and 4 of the Waterview Connection Project) shall be undertaken in general accordance with the information provided by the New Zealand Transport Agency (NZTA), in the resource consent applications, the supporting documents (as detailed in Condition DC.1), and in the supplementary

information provided in evidence by the NZTA to the BOI, except where as amended by the application material provided with the s 127 application referenced by Council as 41113, 41114, 41118, 41119, 41120, 41123, 41124, 41125, 41126, 41128, 41371, 41120, 41372, 41373, 41374,41375,41376, RNCC/2010/3396/1, as follows:

a) Application form, AEE, appendices and plans titled 'SH16 Causeway Upgrade Project Section 127 Application to Auckland Council to Change Condition RC.1 (by adding a new condition RC.1 B) on Resource Consent Number EPA 10/2.009 (ACC:R/LUC/2010/3396), EPA 10/2.031 (ARC: 38335), EPA 10/2.032 (ARC 38336), EPA 10/2.033 (ARC:38338), EPA 10/2.034 (ARC:38339), EPA 10/2.038 (ARC:38342), EPA 10/2.039 (ARC:38343), EPA 10/2.040 (ARC: 38344), EPA 10/2.041 (ARC:38345), EPA 10/2.052 (ARC: 38356), EPA 10/2.056 (ARC:38361), EPA 10/2.058 (ARC: 38363), EPA 10/2.059 (ARC: 38364)' prepared by the Causeway Alliance and dated 20 November 2012 (Revision 1), including:

- Addendum to Technical Report G.3 Assessment of Avian Ecological Effects
- Addendum to Technical Report G.4 Assessment of Coastal Processes
- Addendum to Technical Report G.5 Assessment of Construction Noise Effects
- Addendum to Technical Report G.11 Assessment of Marine Ecological Effects
- Addendum to Technical Report G.15 Assessment of Stormwater and Streamworks Effects
- Addendum to Technical Report G.16 Assessment of Temporary Traffic Effects
- Addendum to Technical Report G.17 Assessment of Terrestrial Vegetation Effects
- Addendum to Technical Report G.19 Assessment of Vibration Effects
- Addendum to Technical Report G.20 Assessment of Visual and Landscape Effects

### 2.2.2 Te Atatu Pony Club LUC-2012-1444

Auckland Council granted the NZTA consent on 13 February 2013 for works to relocate the Te Atatu Peninsula Pony Club on the Harbourview Orangihina park during the SH16 Causeway Upgrade Project for the creation of a levelled grassed area for the exercise of horses, provision of carparking hardstand area.

## 3.0 OVERVIEW of ACTIVITIES UNDERTAKEN

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### 3.1 Construction

- Preliminary works to TAPC site compound "Taupuni "commenced – fencing, installation of environmental controls, drainage, relocation of chattels etc occurring currently.
- Team focused on construction planning, work methodologies and programming.
- Review of 50% design packages coordinated between designers and constructors bi-weekly.
- GNRI scope further defined and integrated programme developed with WCA.
- TTM development continues including impact assessment of various TTM implementations.
- Deployment of NMV resources and assets coordinated successfully.
- Early works planned for key areas of project starting May 2013.

### **3.2 Environment**

- All environmental management plans have been submitted to Council for review and approval – approval has been granted.
- Second Community Liaison Group Meeting held – good attendance, large representation from Alwyn Avenue and from cyclists and local board members.

### **3.3 Communication and Stakeholder**

- Reviewed and updated Communications and Stakeholder Engagement Minimum Requirements for PAA relevant to the Causeway Upgrade Project.
- Registered to be part of NZTA's 0800 4 HIGHWAYS (0800 44 44 49) free phone service.
- Team challenge to name Construction Yard 1. Favourite was Taupuni (temporary encampment).
- Causeway Alliance shared Community Liaison Group meeting with Te Atatu Interchange and Auckland Transport's Proposal for bus interchange at Te Atatu, without complaint.
- Resolved Iwi communications contacts in advance of blessing.

## **4.0 MEETINGS, INSPECTIONS & EVENTS**

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- 02 April 2013 Construction Yard 1 Pre-Commencement Meeting (Auckland Council / Causeway Alliance)
- 04 April 2013 North Traherne Island Environmental Pre Clearance Inspection (Bioresarches / Causeway Alliance)
- 08 April 2013 Construction Yard 1 ESCP Site Meeting (Causeway Alliance / Southern Skies)
- 09 April 2013 Removal of Mimulus from Sth Traherne Swale; Transport to Piha (Causeway Alliance, Dept of Conservation, NZTA, Auckland Motorway Alliance)
- 11 April 2013 Alwyn Avenue Amenity Tree Assessment (Causeway Alliance / Arborlab)
- 18 April 2013 Alwyn Avenue Amenity Tree Assessment (Causeway Alliance / Arborlab)
- 18 April 2013 SH16 causeway Upgrade Project meeting (Auckland Council / Causeway Alliance)
- 23 April 2013 Archaeological Pre-Commencement Meeting (Causeway Alliance / Clough Associates)
- 24 April 2013 Te Kawerau a Maki Liaison Meeting (Causeway Alliance / Te Kawerau a Maki)
- 29 April 2013 Construction Yard 1 Bird Roosting Assessment (Causeway Alliance / Bioresarches)

## 5.0 ENVIRONMENTAL MONITORING

### 5.1 VEGETATION MANAGEMENT

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Causeway Alliance undertook Amenity Tree S.T.E.M Assessment and site inspections of Alwyn Ave.

6 trees with S.T.E.M assessments above 100 were identified.

Amenity Tree No.	Species	Location	Health	Fencing	Observations/recommended actions
7	Casuarina	26 Alwyn Ave	Good	-	Protect during construction activities
8	Ulmus	28 Alwyn Ave	Good	-	Protect during construction activities
9	Metrosideros	30 Alwyn Ave	Good	-	Protect during construction activities
10	Juniperus	30 Alwyn Ave	Good	-	Protect during construction activities
65	Eucalyptus	34 Alwyn Ave	Good	-	Protect during construction activities
66	Liquidamber	34 Alwyn Ave	Good	-	Protect during construction activities

### 5.2 CONSTRUCTION NOISE & VIBRATION

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No noise – vibration complaints or monitoring was undertaken during the period.

### 5.3 AIR QUALITY

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No air quality complaints or issues were received during the period.

Causeway Alliance Daily Site Reports did not indicate any air quality issues.

### 5.4 CONTAMINATED SOIL

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No contaminated soil monitoring was undertaken during the period.

## **5.5 EROSION & SEDIMENT CONTROL**

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CESSCP No.1: Construction Yard 1 (included in Construction Yard 1 SSCEMP) approved 18 April 2013

CESSCP No.6: GNRI Areas 1 & 2 Rev A approved 23 April 2013

CESSCP No 7: GNRI Area 3 Rev A approved 23 April 2013

CESSCP No.6: GNRI Areas 1 & 2 Rev B approved 30 April 2013

## **5.6 ARCHAEOLOGICAL**

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No archaeological site monitoring was undertaken during the period.

## **5.7 COASTAL MONITORING**

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No coastal monitoring was undertaken during the period.

## **5.8 MARINE MONITORING**

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No marine monitoring was undertaken during the period.

## **5.9 ECOLOGICAL**

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Pre-clearance inspection for Significant and Valued vegetation was undertaken in Zone 1A (Traherne Island North).

Pre-clearance inspection for reptiles/lizards was undertaken in Zone 1A (Traherne Island North).

Assessment of avian roosting locations was undertaken in Zone 3 (Construction Yard 1).

Mimulus repens assessment and subsequent removal/relocation to endangered plant nursery.

## **6.0 STAKEHOLDER MANAGEMENT**

### **6.1 QUERIES, CONCERNS, COMPLAINTS**

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A total of 12 calls or emails have been received to date all responding to Causeway Alliance offer to have their names added to our database for project updates

5 compliments have been received - all from Cycle Action Auckland praising Causeway Alliances' proactive engagement regarding shared path signage.

No complaints have been recorded or received during the April period.

## **7.0 WORKS PROPOSED FOR MAY 2013**

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Refer Appendix B for 3 Month Construction Programme

May will see the project take occupation of various locations along the alignment, works will be relatively small scale and be associated with preparing areas for more significant earthwork and road widening activities later in the year.

The majority of works programmed for May involve vegetation removal, clearing and demolition, installation of environmental controls and site accommodation.

Zone 1 Causeway is on the critical path to commence the installation of ground improvements throughout the May-June period.

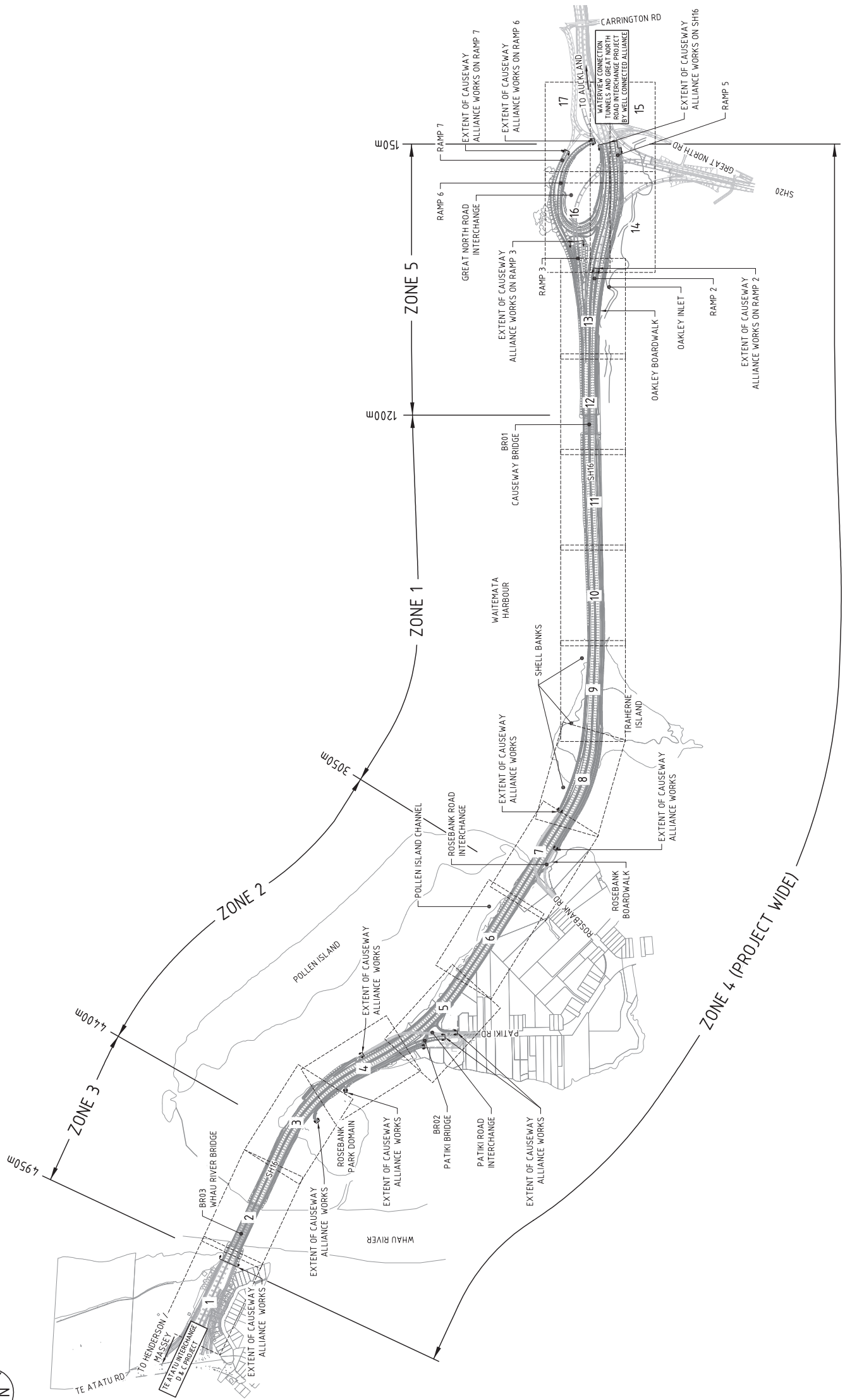
Zone 2 will commence ground clearing activities in the vicinity of east and west bound Whau Bridge.

Zone 3 main site office establishment on Te Atatu Road will continue. Preparation for demolition and removal of buildings in Alwyn Avenue will also commence.

Zone 5 early works activities will commence in the Great North Road Interchange Areas (Refer Appendix D) to ensure a comprehensive programme interface with associated works for the Waterview Connection Alliance.

The environmental focus for May is on pre-inspections prior and during vegetation removal and ground clearance to ensure ecological and archaeological stand over requirements are met.

## **Appendix A: SH16 Causeway Alliance Construction Zone Plan**





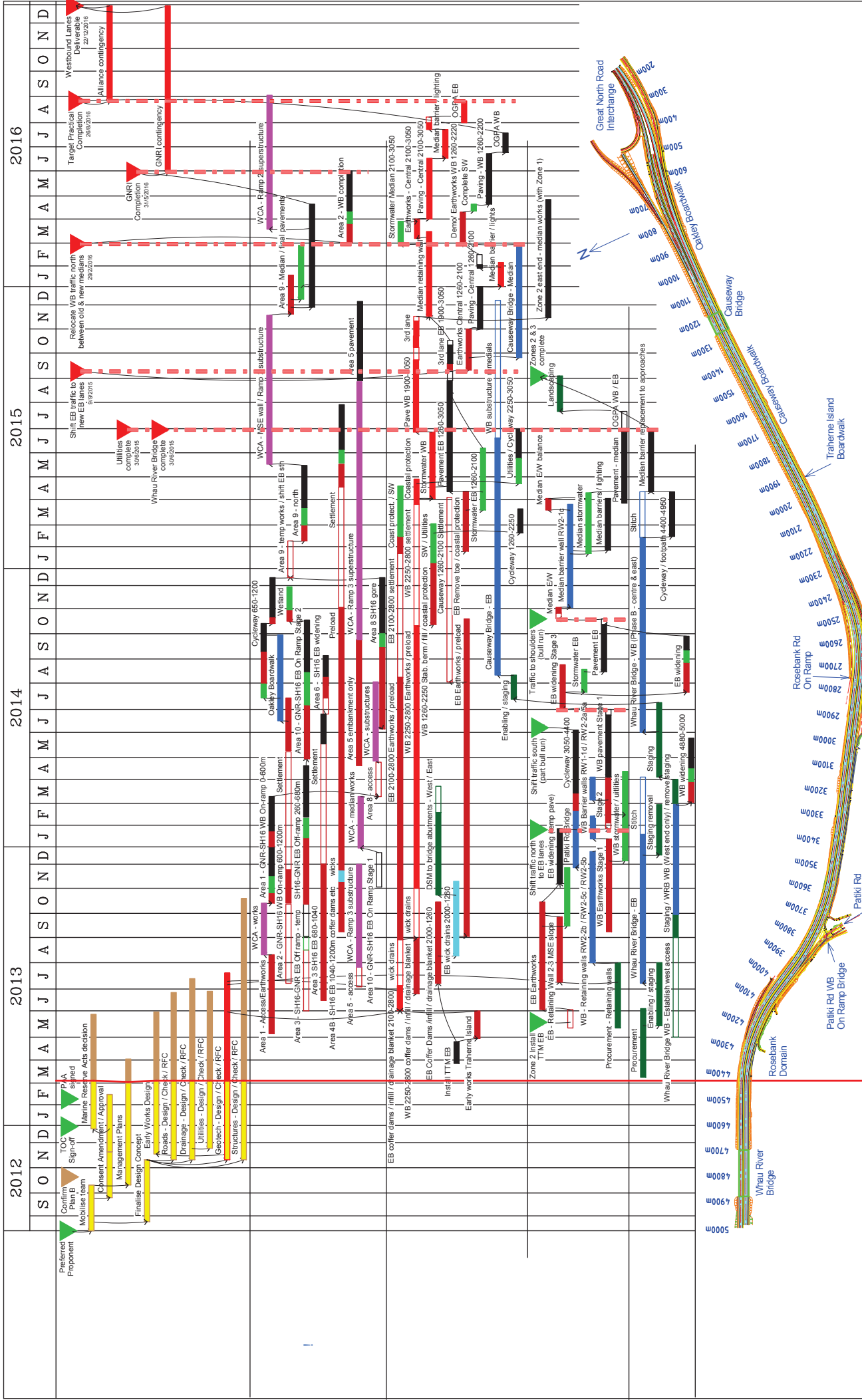
## **Appendix B: SH16 Causeway Alliance 3 Month Construction Programme**



◆ Z3 Temp Works: Main Compound (Pony Clip) Complete

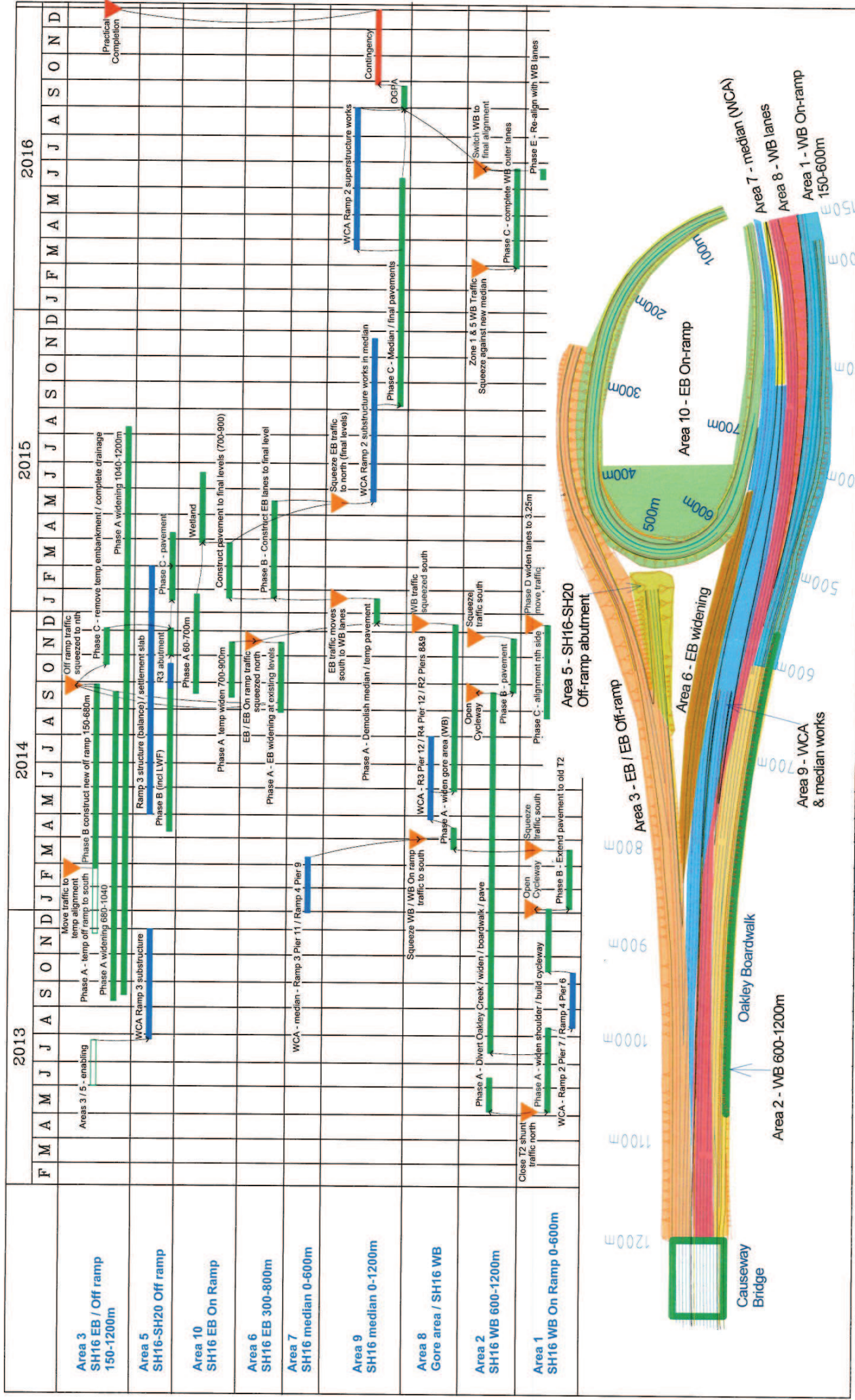
SH16 Causeway  
Construction Programme

## **Appendix C: SH16 Causeway Summary Construction Programme**



		Job No <b>426</b>	
Date 5/12/12		Drawn CWB	
Program/No 101		Rev No D	
No Revision		Date App	
D Revision D		5/3	
C Revision C		31/1	
B Revision B		22/1	
A Draft 2		App	

**Appendix D: SH16 Causeway Zone 5 Great North Road Interchange**



**CAUSEWAY ALLIANCE**  
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# SH16 CAUSEWAY

## ZONE 5 SUMMARY PROGRAMME

Date	By	Rev No	Date	By	Rev No
19/3	G Draft G		23/01/13	CWB	426
13/3	F Draft F		6/3		
6/3	E Draft E		23/1		
23/1	A Draft A				

Programme No: 102  
Rev No: G

No	Revision	App	Date

**KEY**

- SH16 Causeway Alliance Works
- Wellconnected Alliance Works

