

# A. Detailed Modelling Information

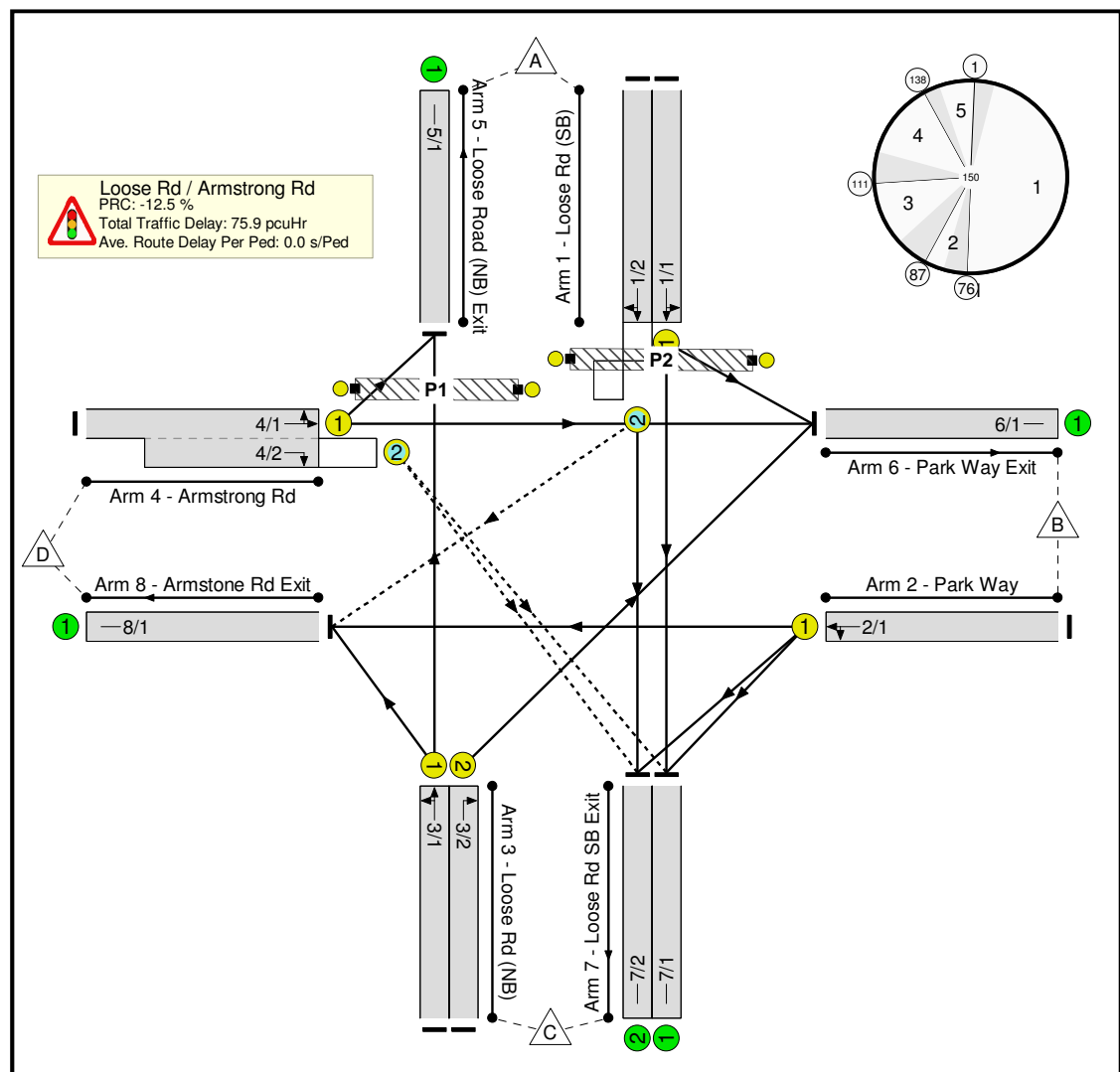
## A.1 Introduction

A.1.1 This appendix contains junction network layout diagrams to explain the detail of proposed method of control.

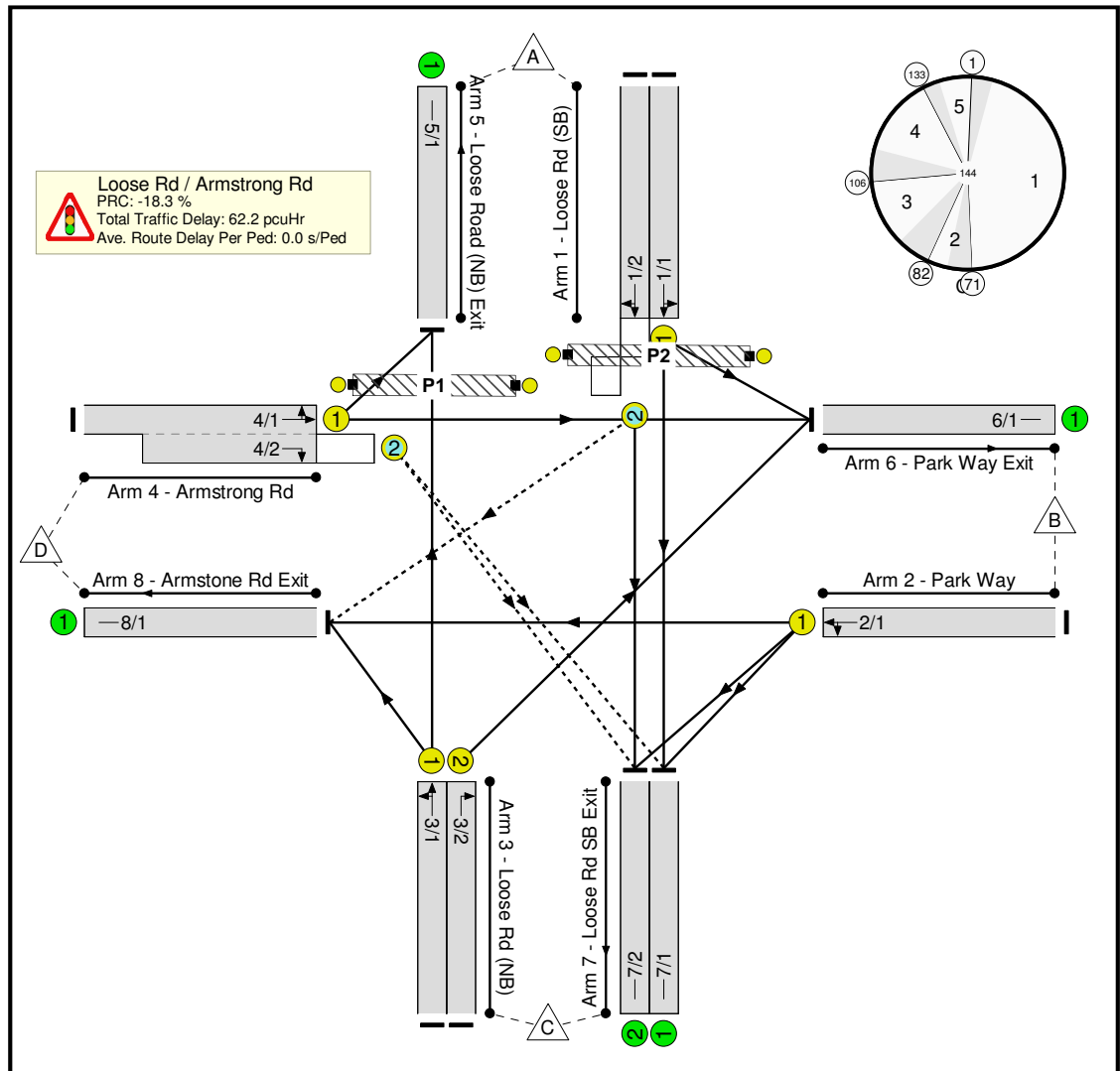
## A.2 A229 Loose Road Junction with Armstrong Road and Park Way

### Existing Base Model

Existing Traffic AM Peak

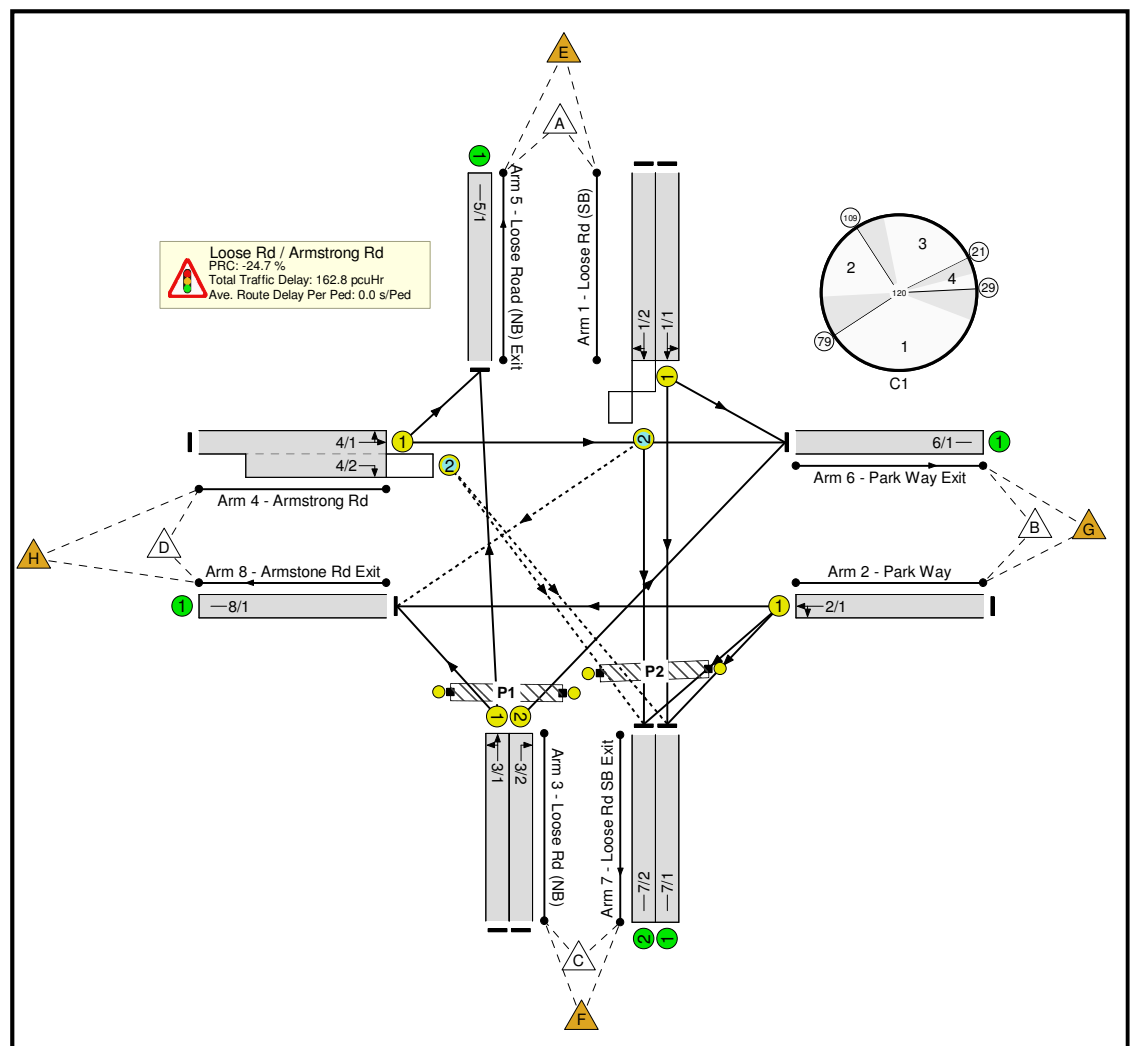


## Existing Traffic PM Peak



## Future Do Minimum

### Future Do Minimum AM Peak



Loose Rd / Armstrong Rd  
 PRC: 9.6 %  
 Total Traffic Delay: 87.9 pcuHr  
 Ave. Route Delay Per Ped: 0.0 s/Ped

Arm 5 - Loose Road (NB) Exit  
 —5/1

Arm 1 - Loose Rd (SB)  
 1/2  
 1/1

Arm 6 - Park Way Exit  
 6/1

Arm 2 - Park Way  
 2/1

Arm 4 - Armstrong Rd  
 4/1  
 4/2

Arm 8 - Armstone Rd Exit  
 —8/1

Arm 3 - Loose Rd (NB)  
 3/2  
 3/1

Arm 7 - Loose Rd (NB) Exit  
 —7/2  
 —7/1

Central Roundabout: 144 lanes, 0, 1, 2, 3, 4, C(68)

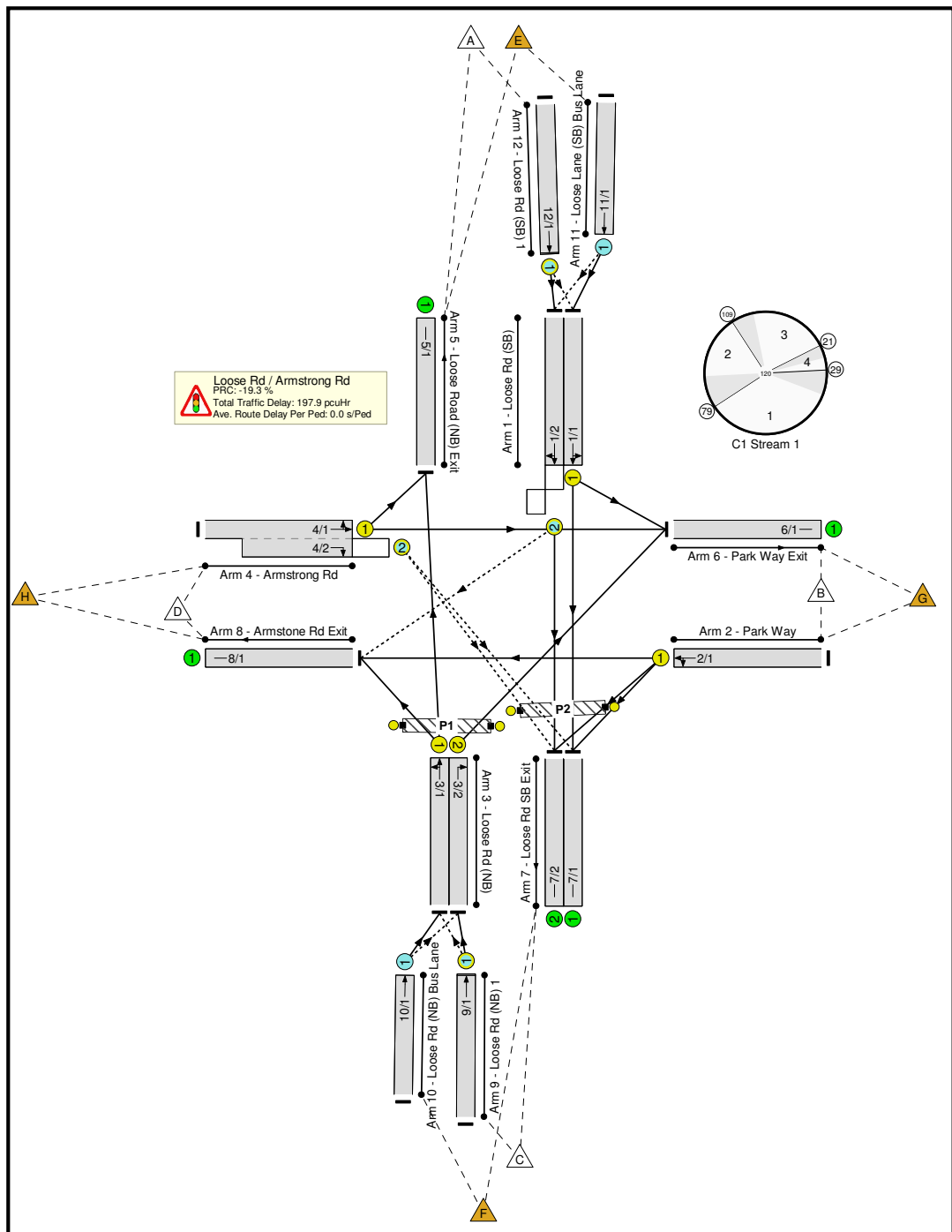
Signs: A, B, C, D, E, F, G, H

Pedestrian Crossings: P1, P2

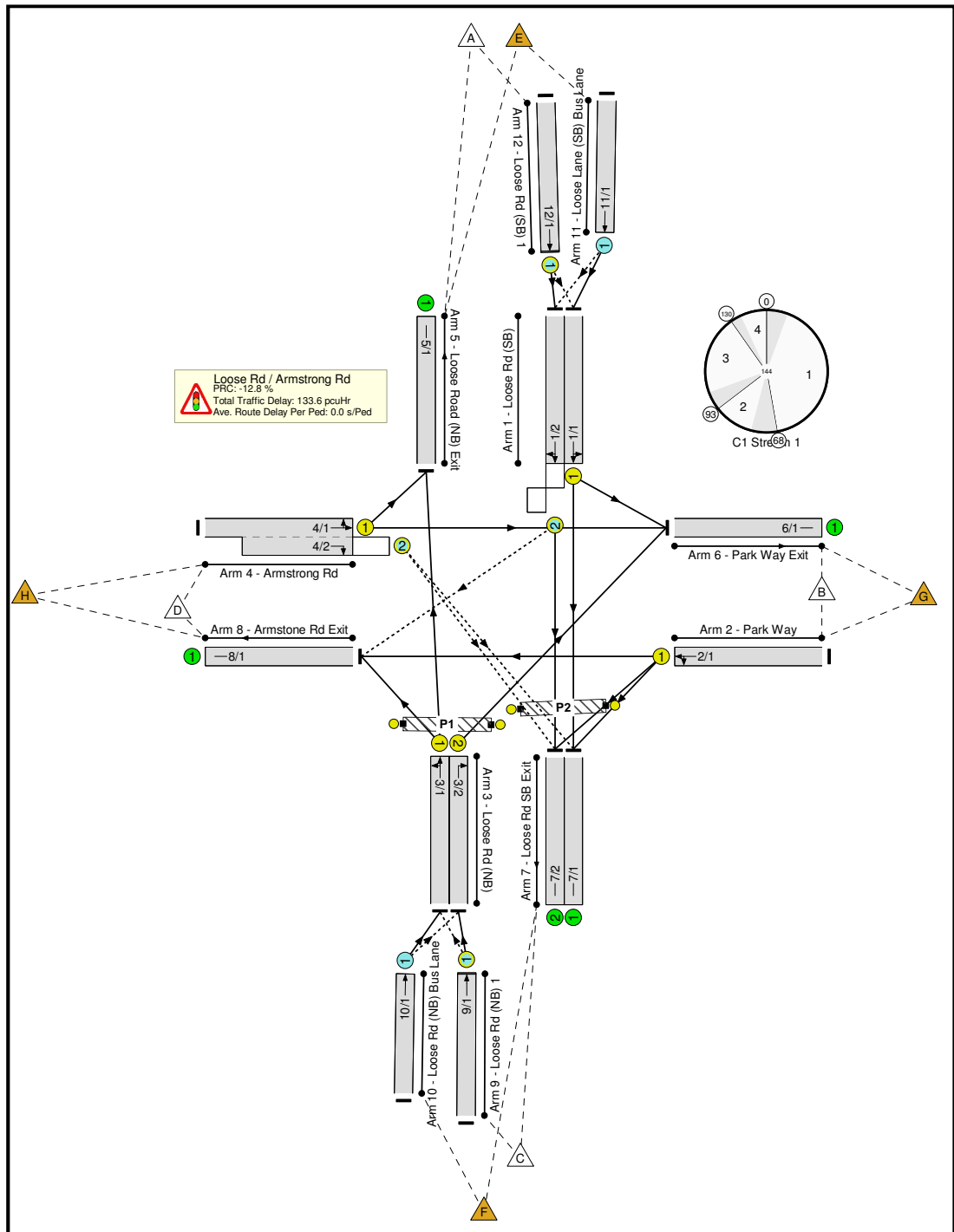


## Do Something

Future Do Something AM Peak



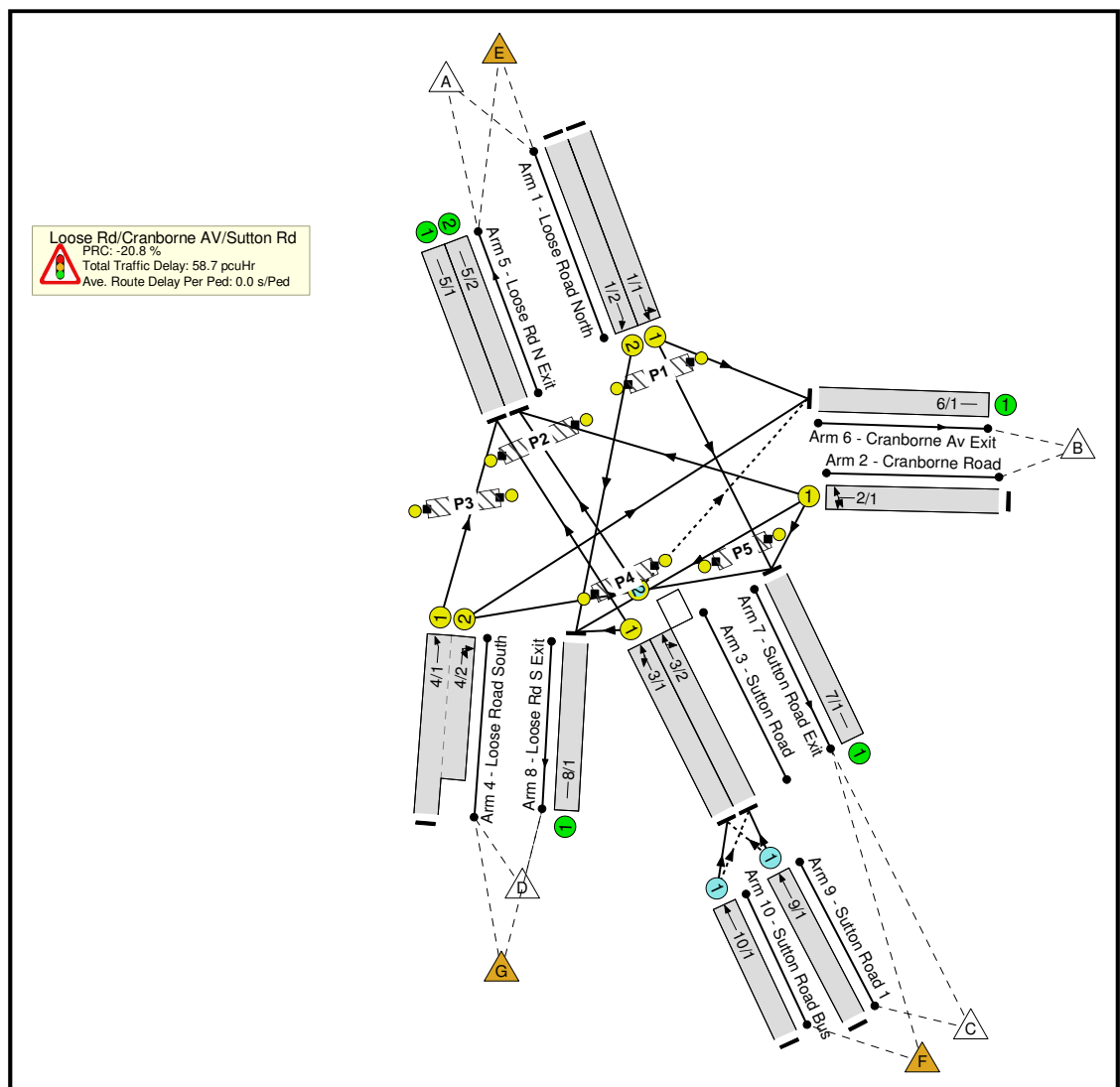
## Future Do Something PM Peak



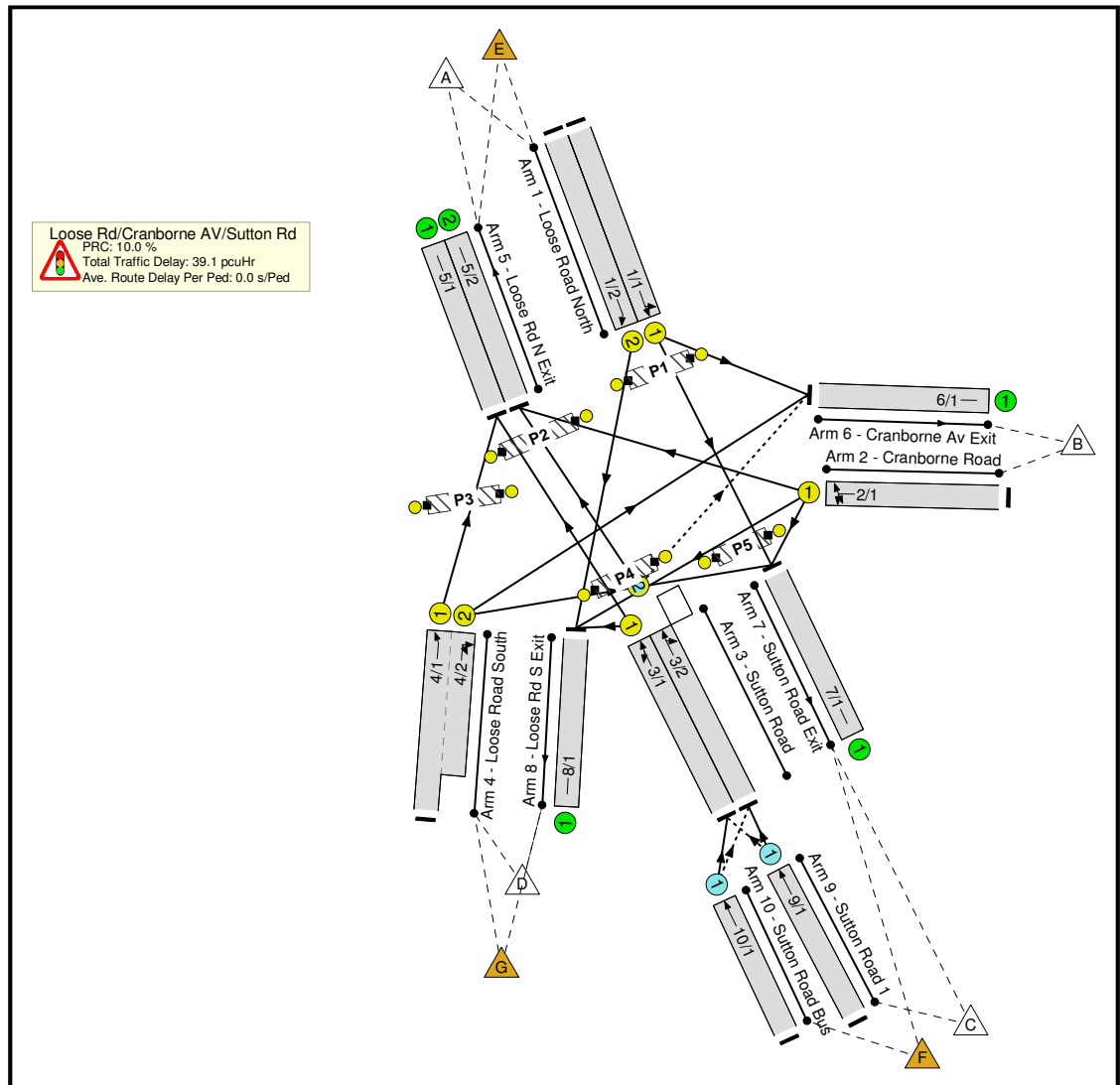
### A.3 The Wheatsheaf Junction

#### Existing Base Model

#### Existing AM Peak

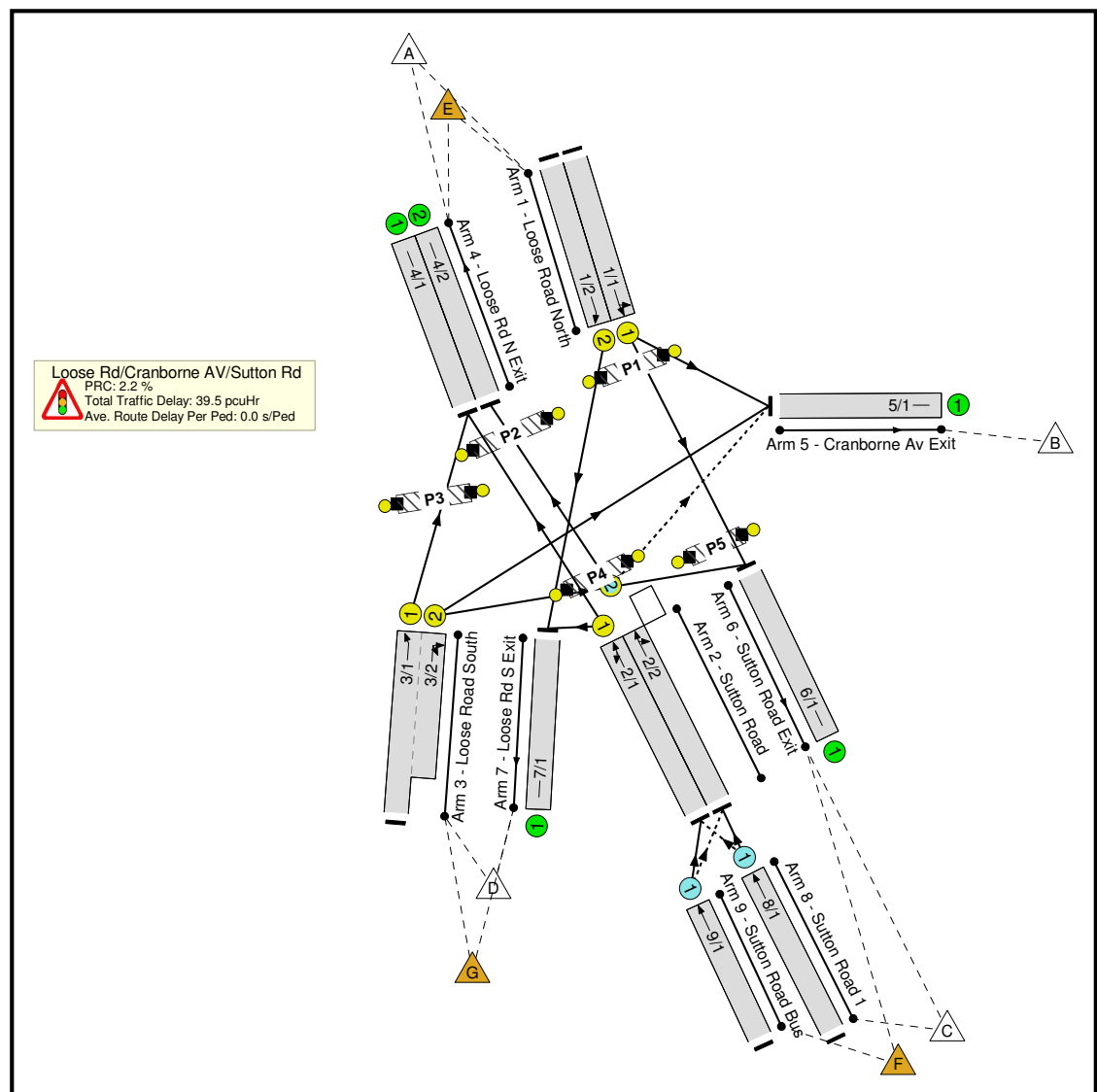


## Existing PM Peak

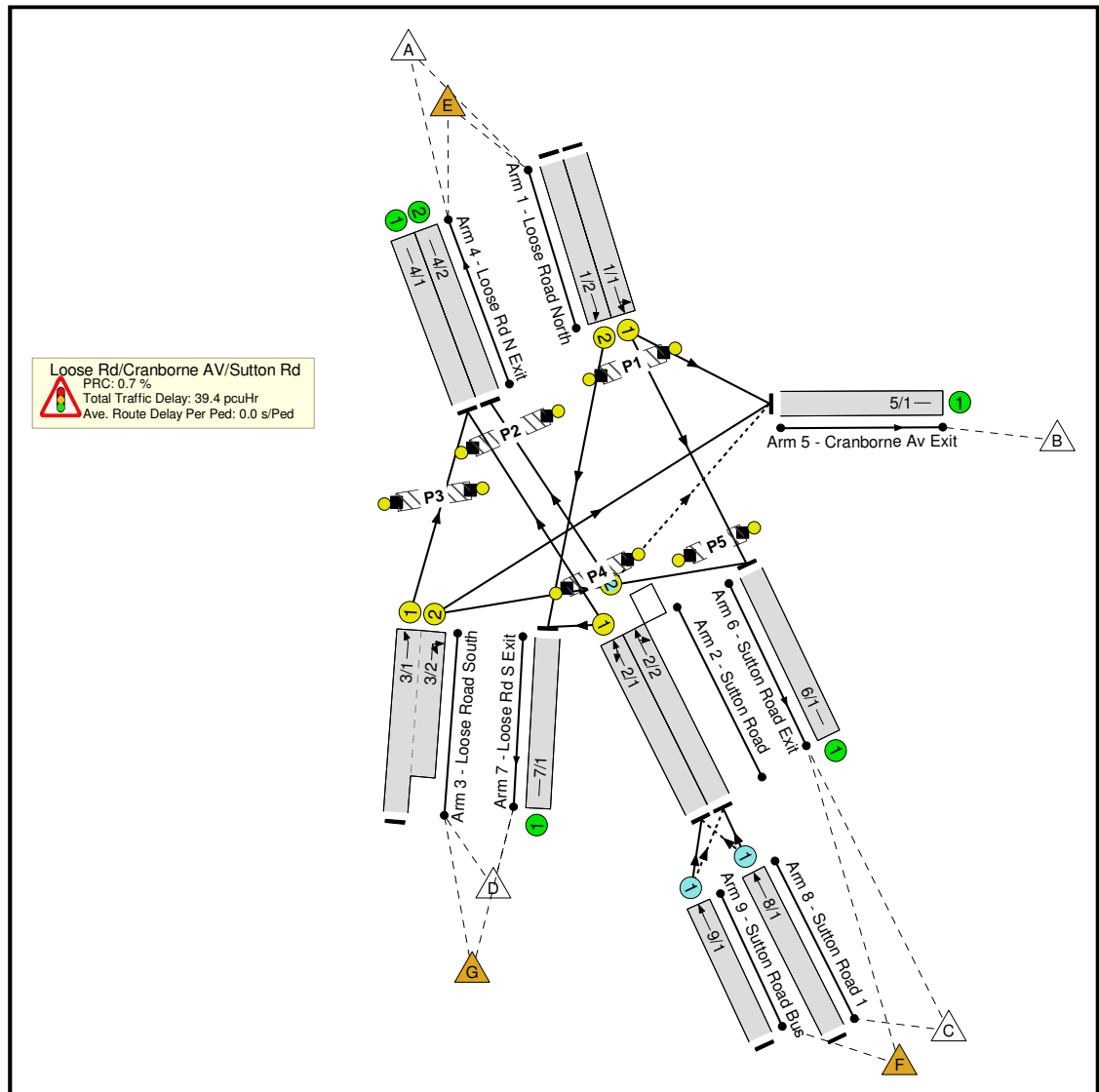


## Future Do Minimum

### Future Do Minimum AM Peak

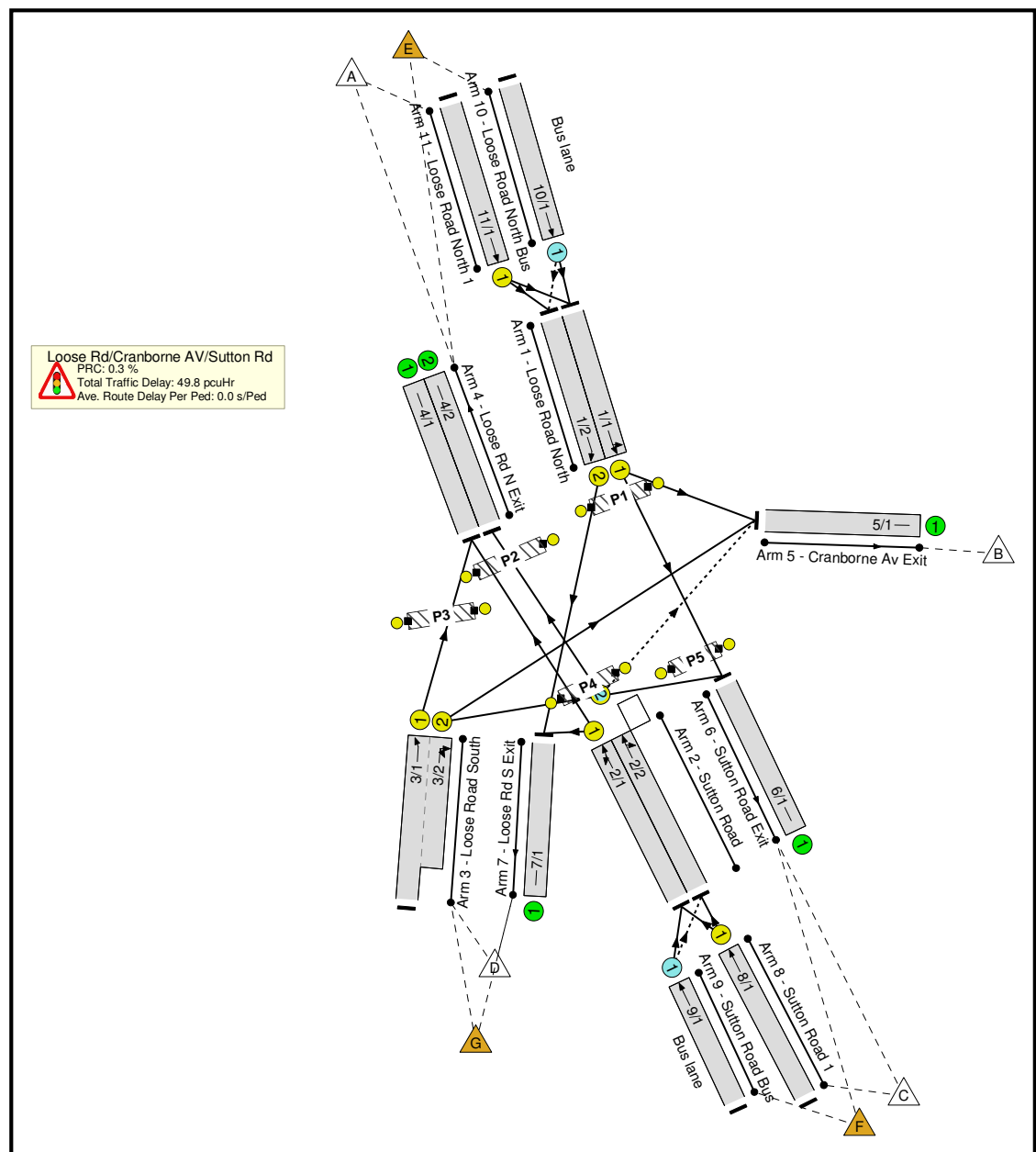


## Future Do Minimum PM Peak

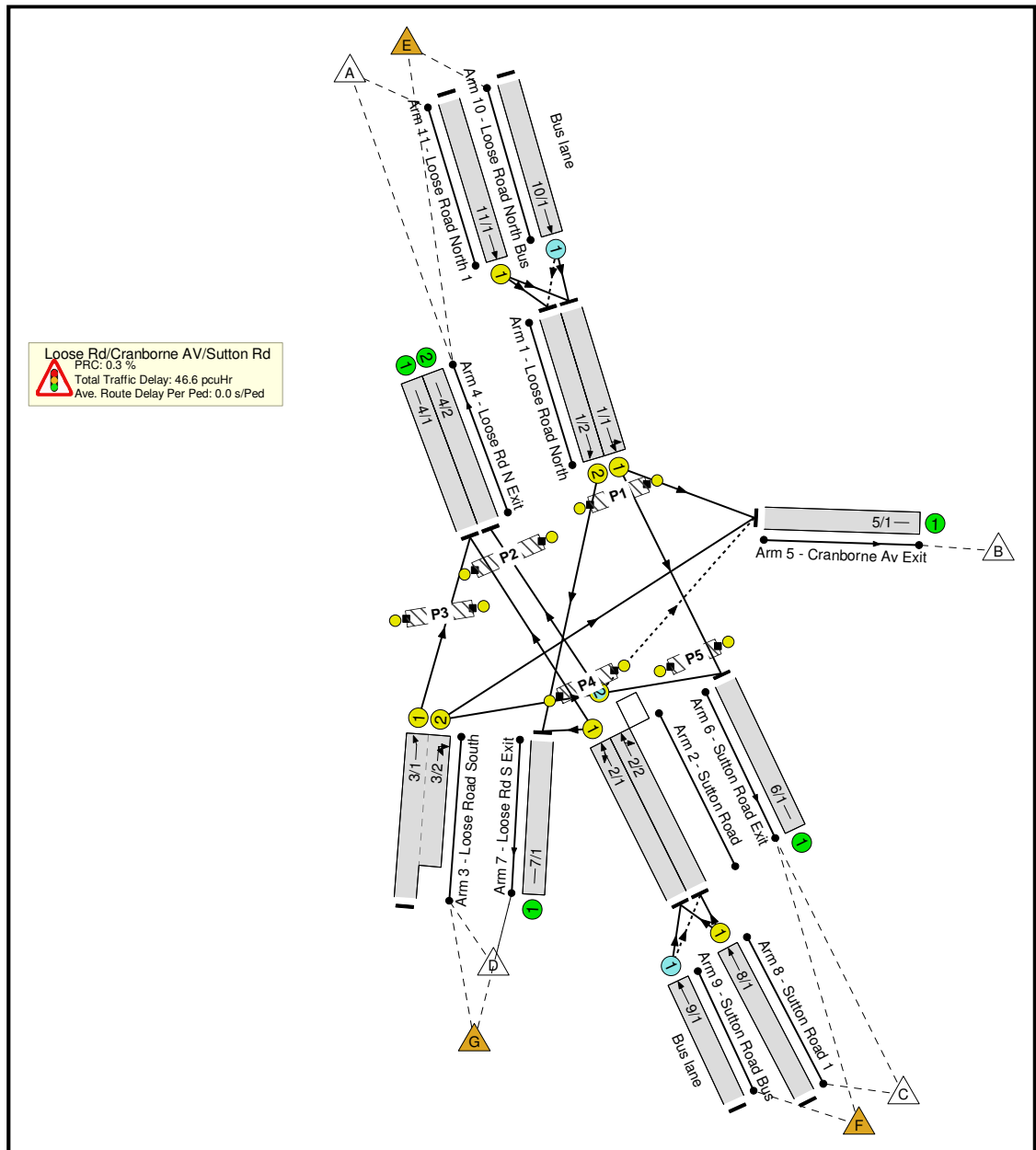


## Do Something

Future Do Something AM Peak



## Future Do Something PM Peak

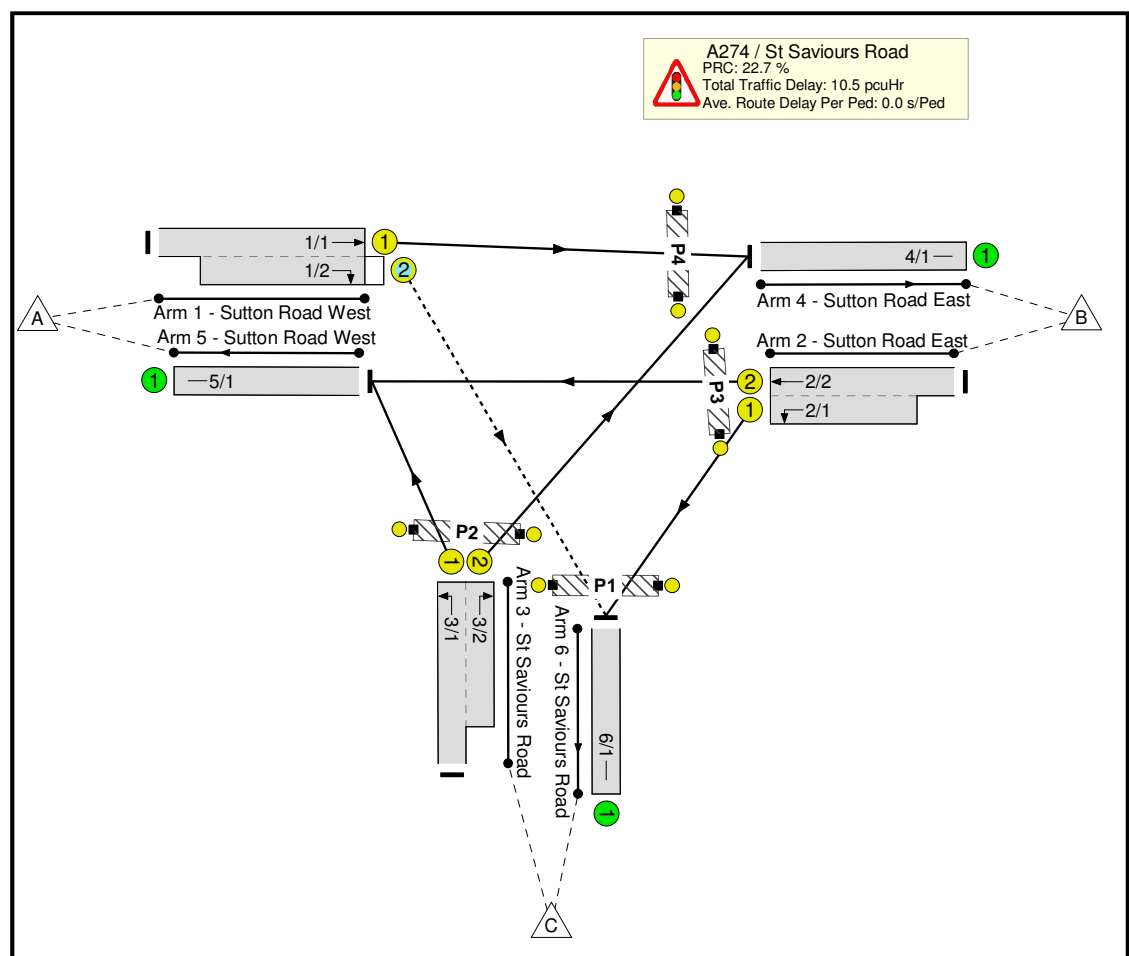




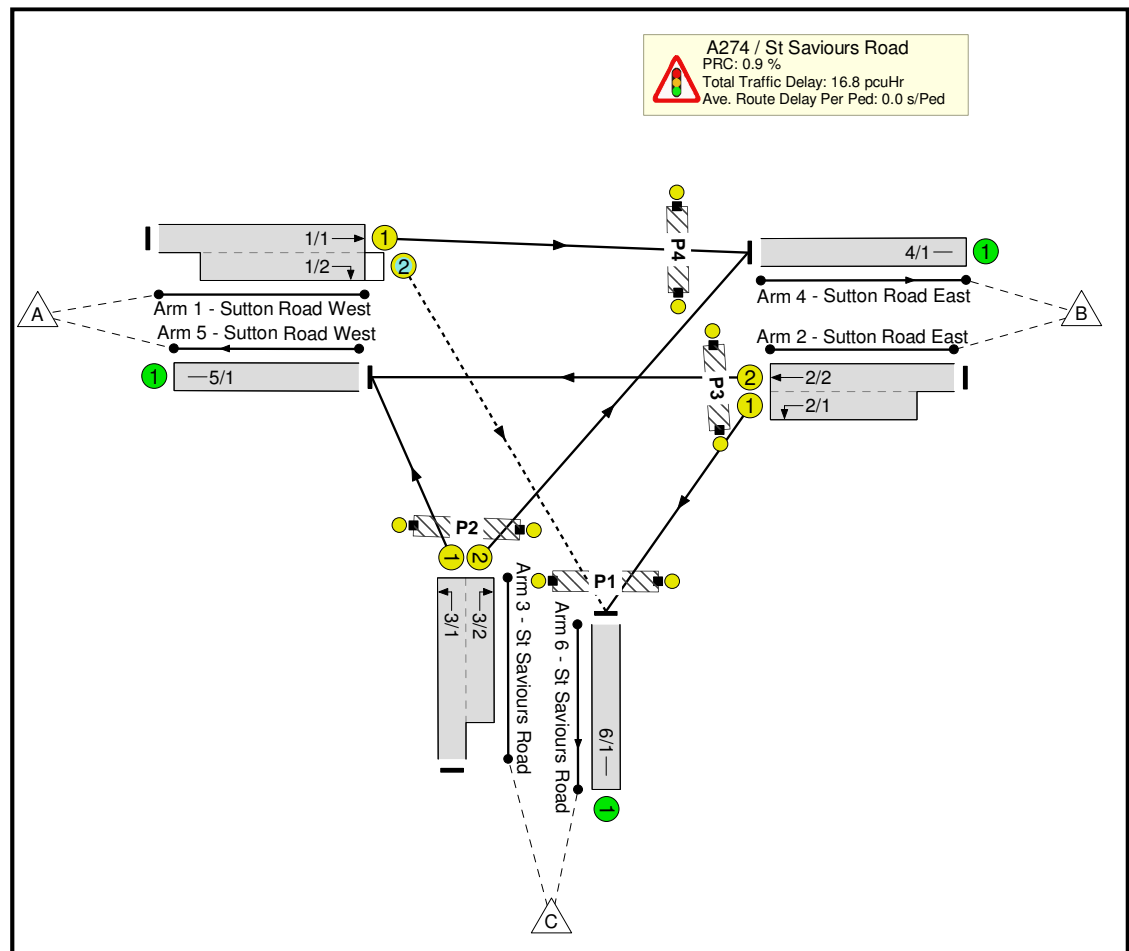
## A.4 St Saviours Road Junction

### Existing Base Model

#### Existing AM Peak

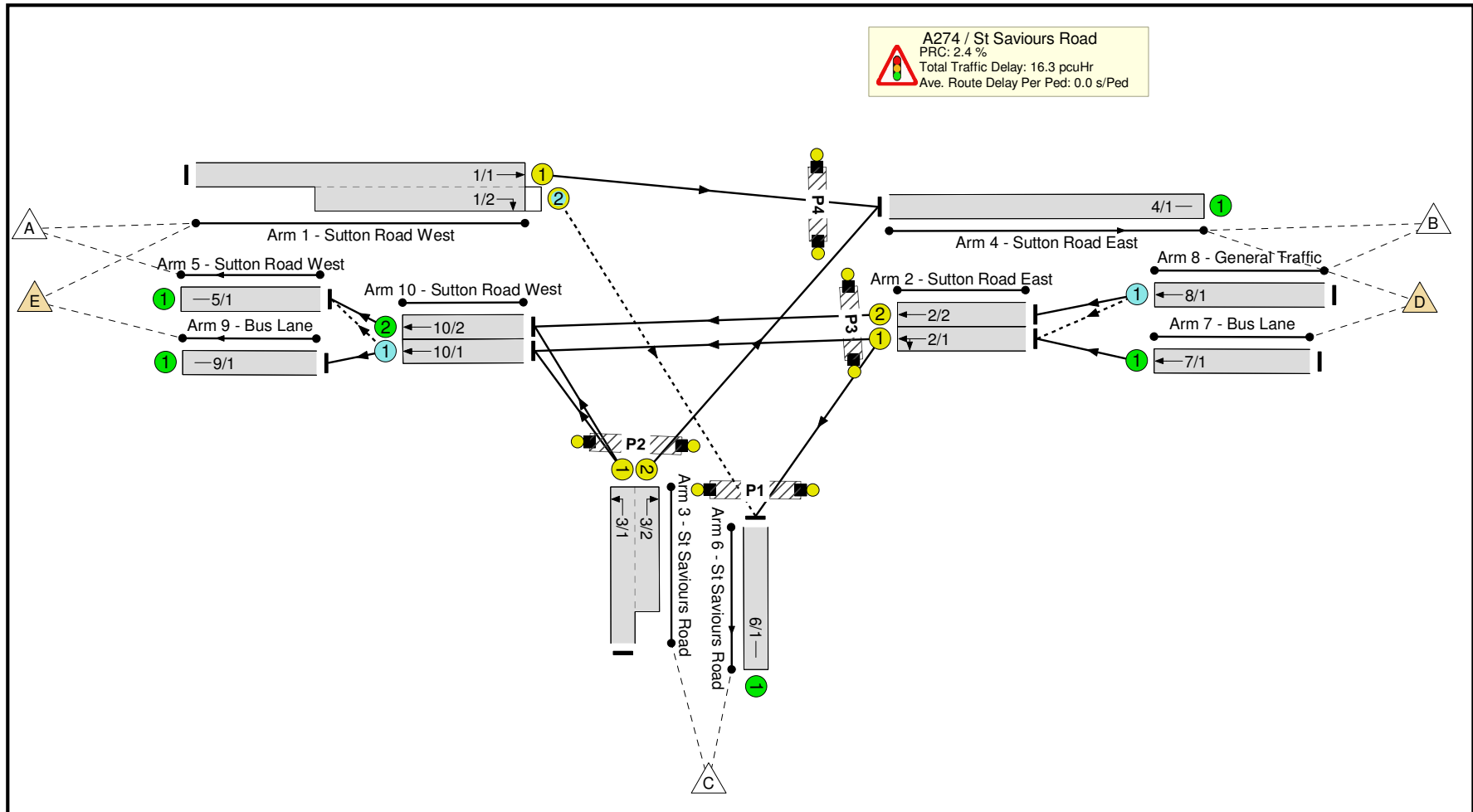


## Existing PM Peak

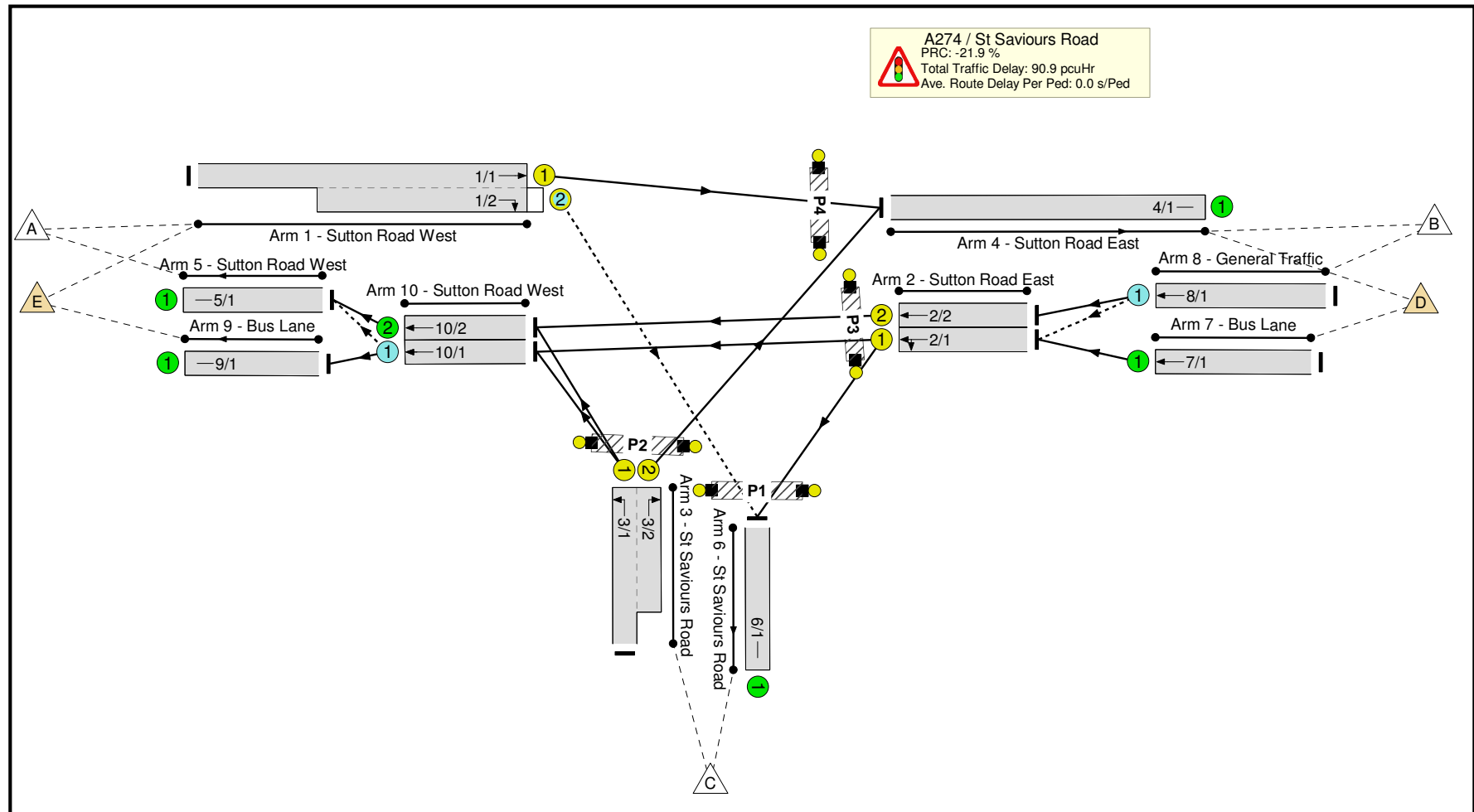


## Do Something

Future Do Something AM Peak



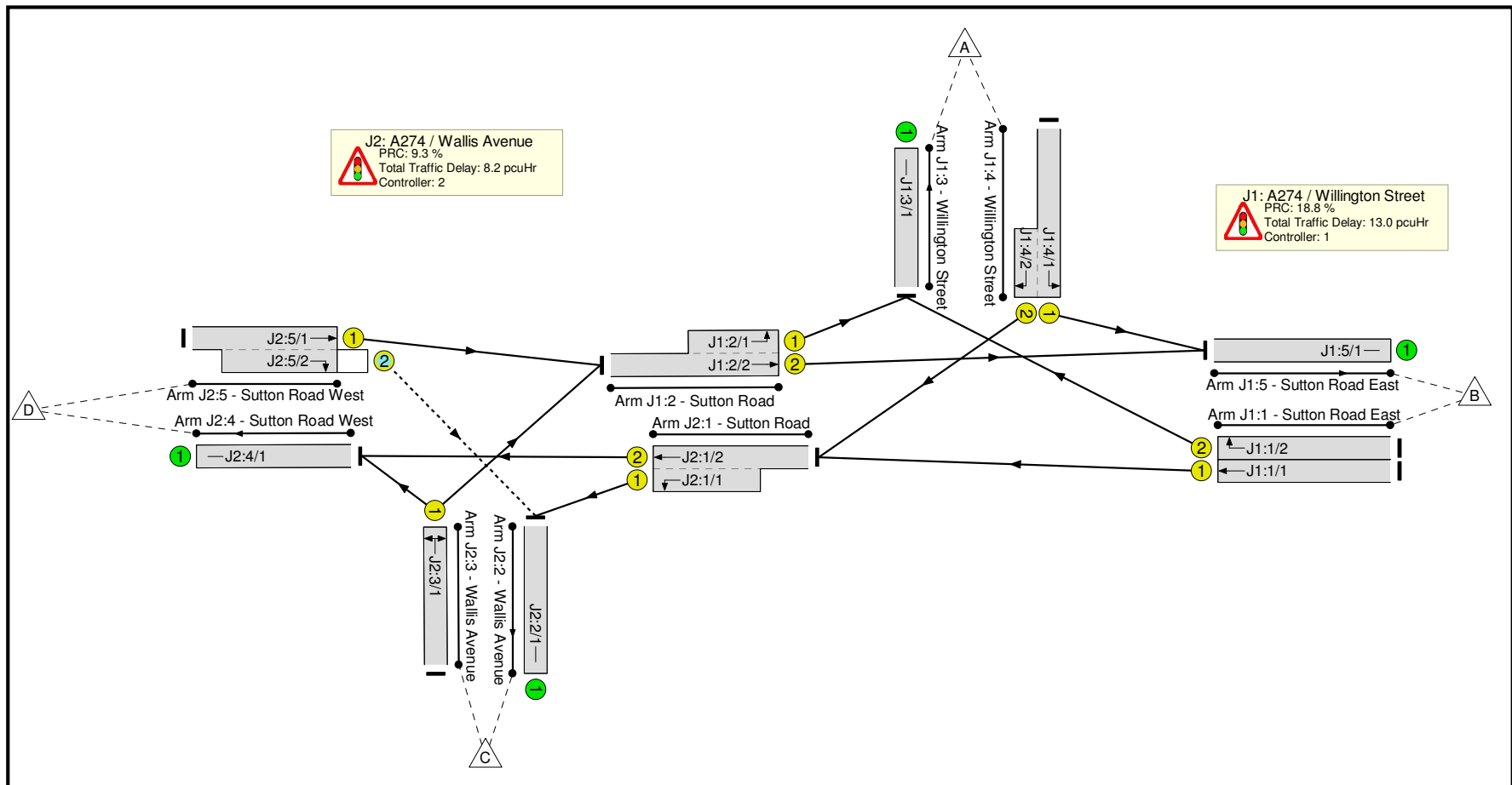
## Future Do Something PM Peak



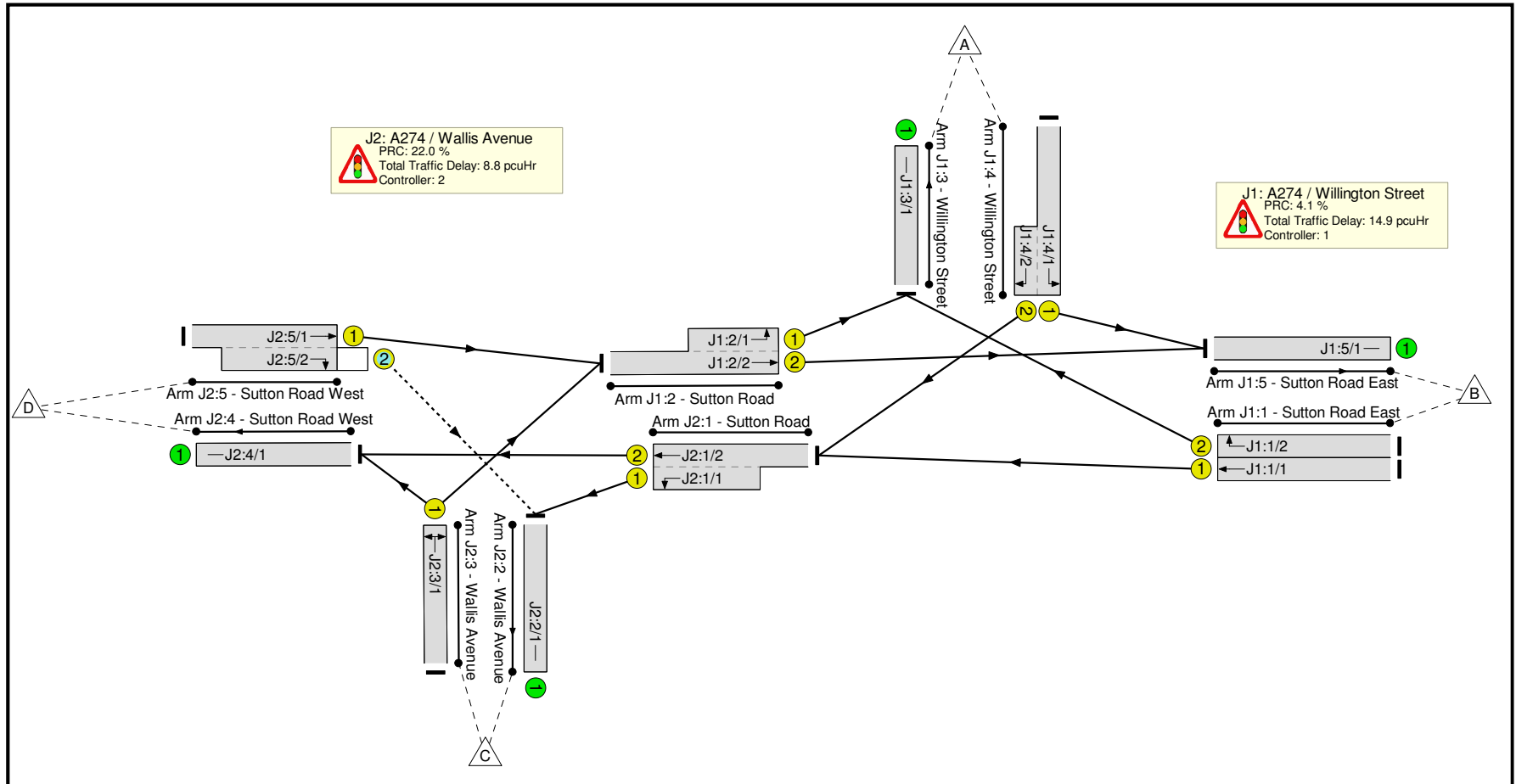
## A.5 Wallis Avenue/Willington Street Junction

### Existing Base Model

Existing AM Peak

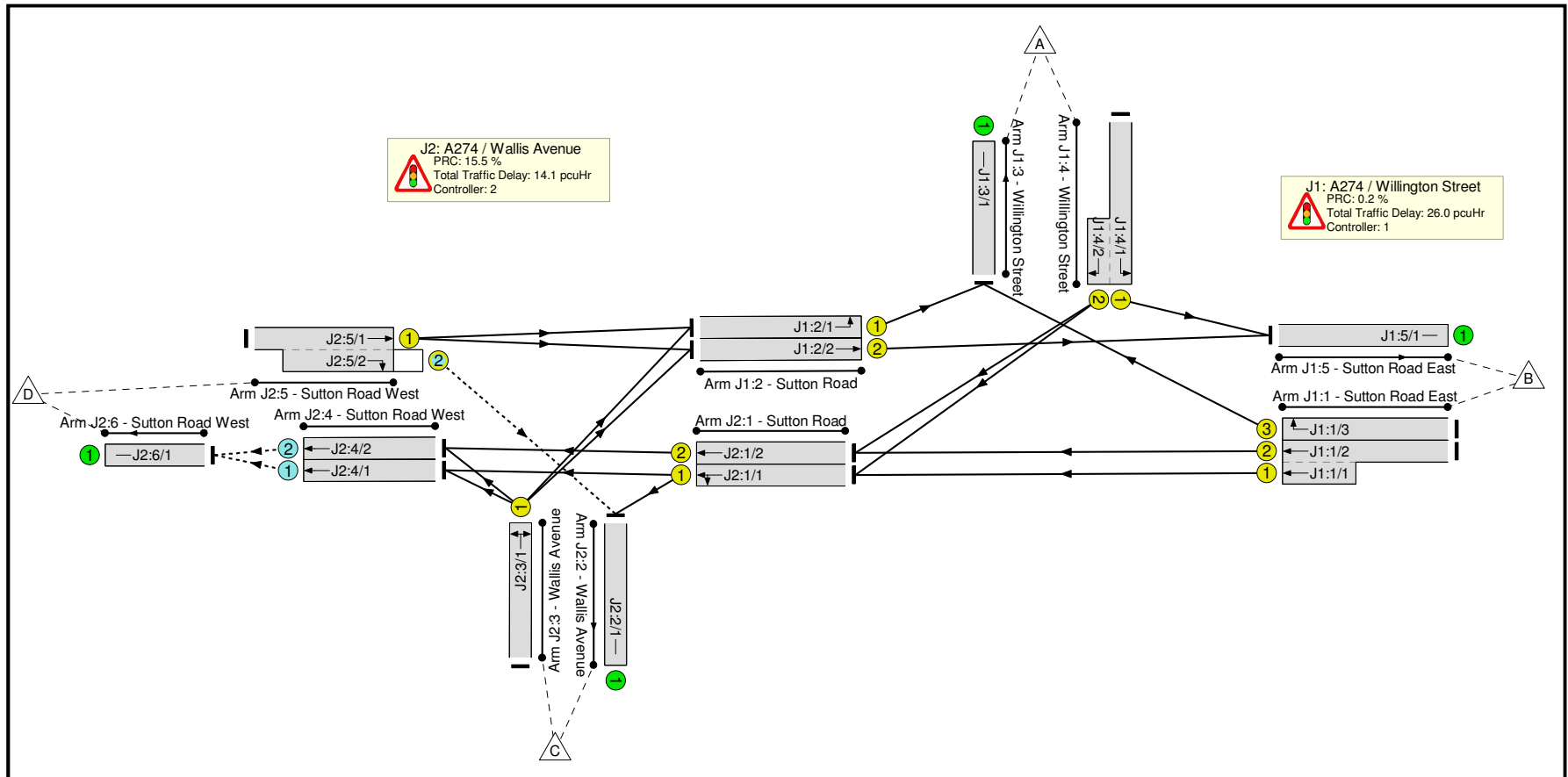


Existing PM Peak

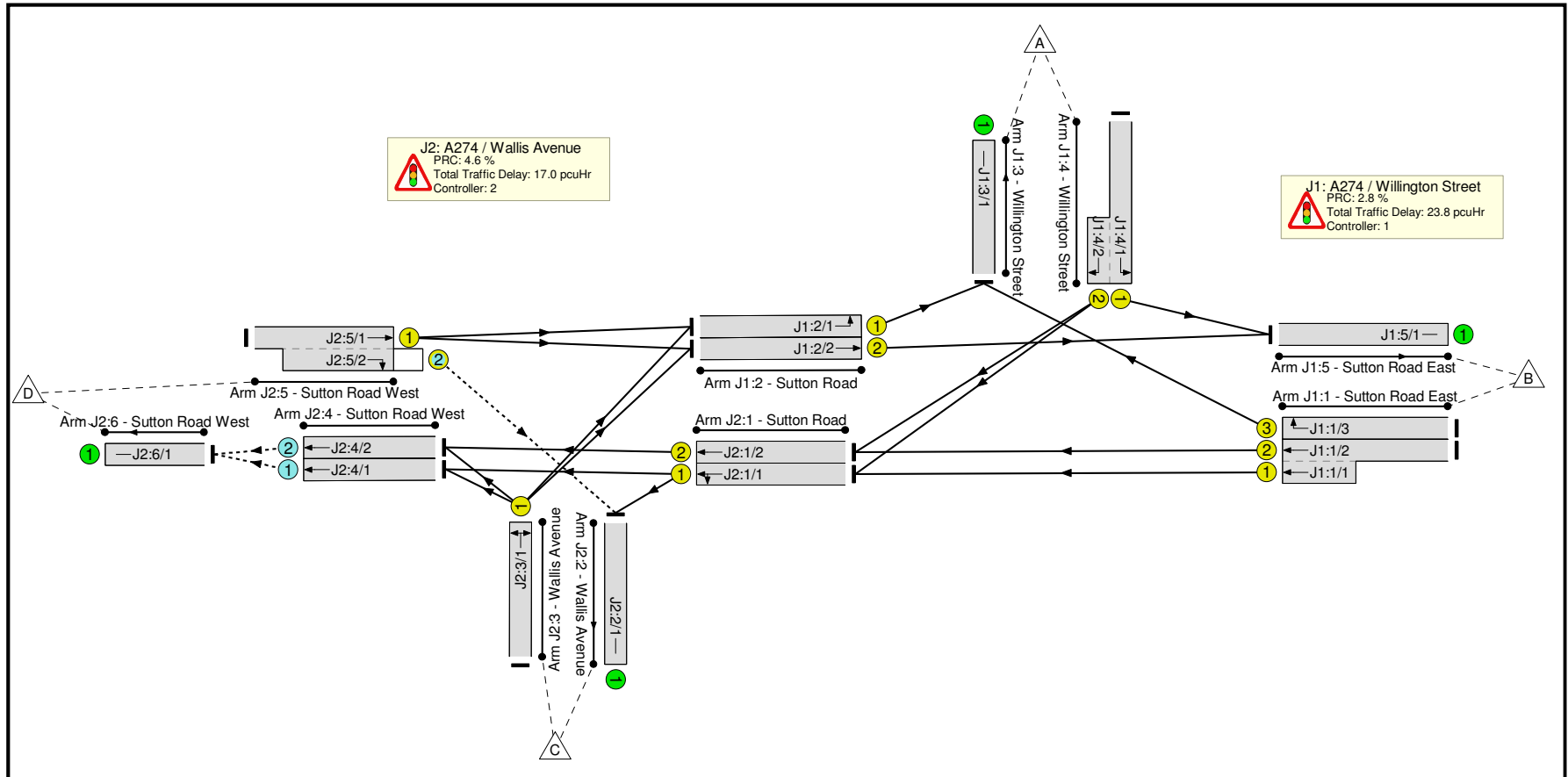


## Do Minimum

### Future Do Minimum AM Peak



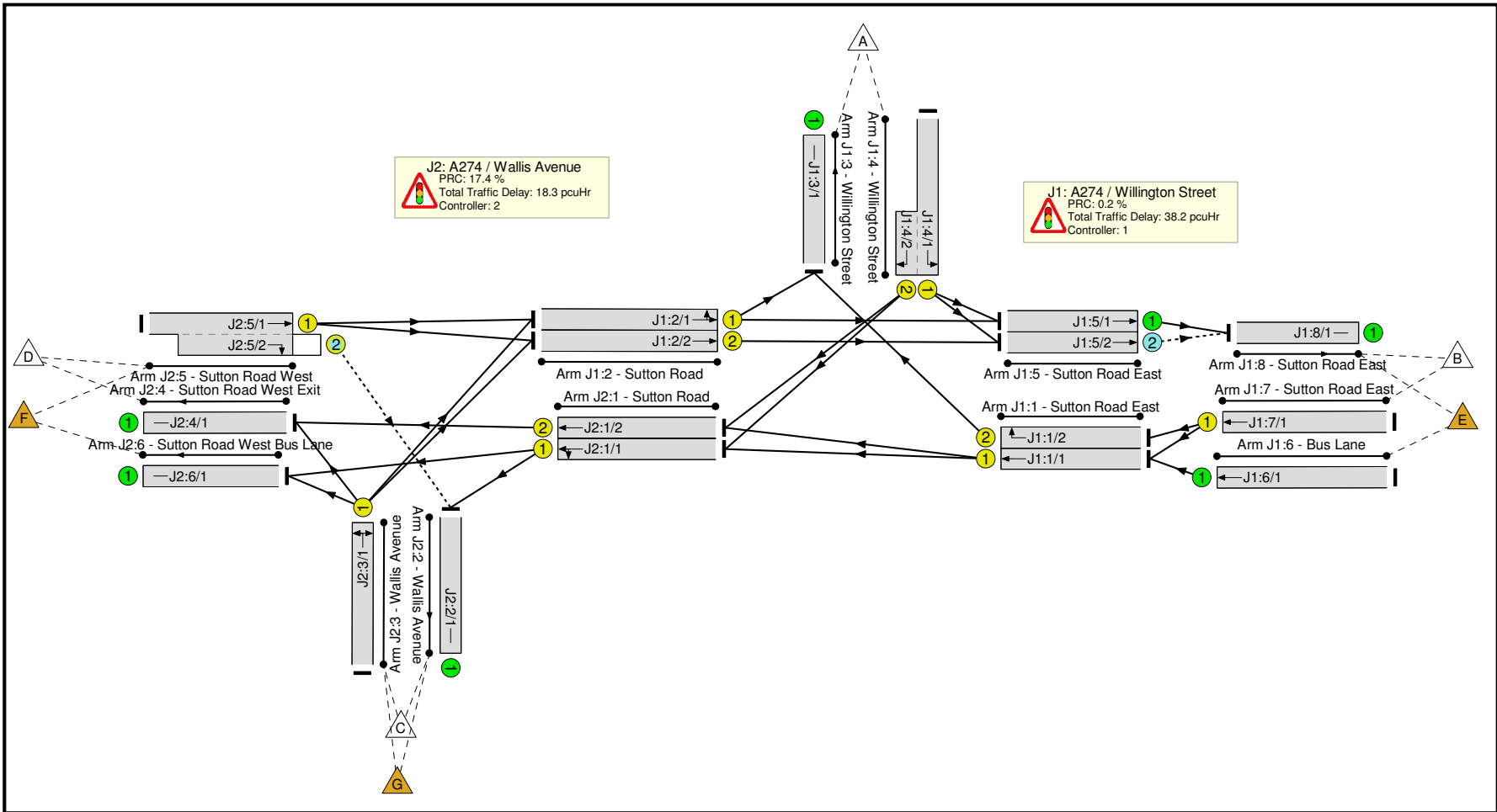
Future Do Minimum PM Peak



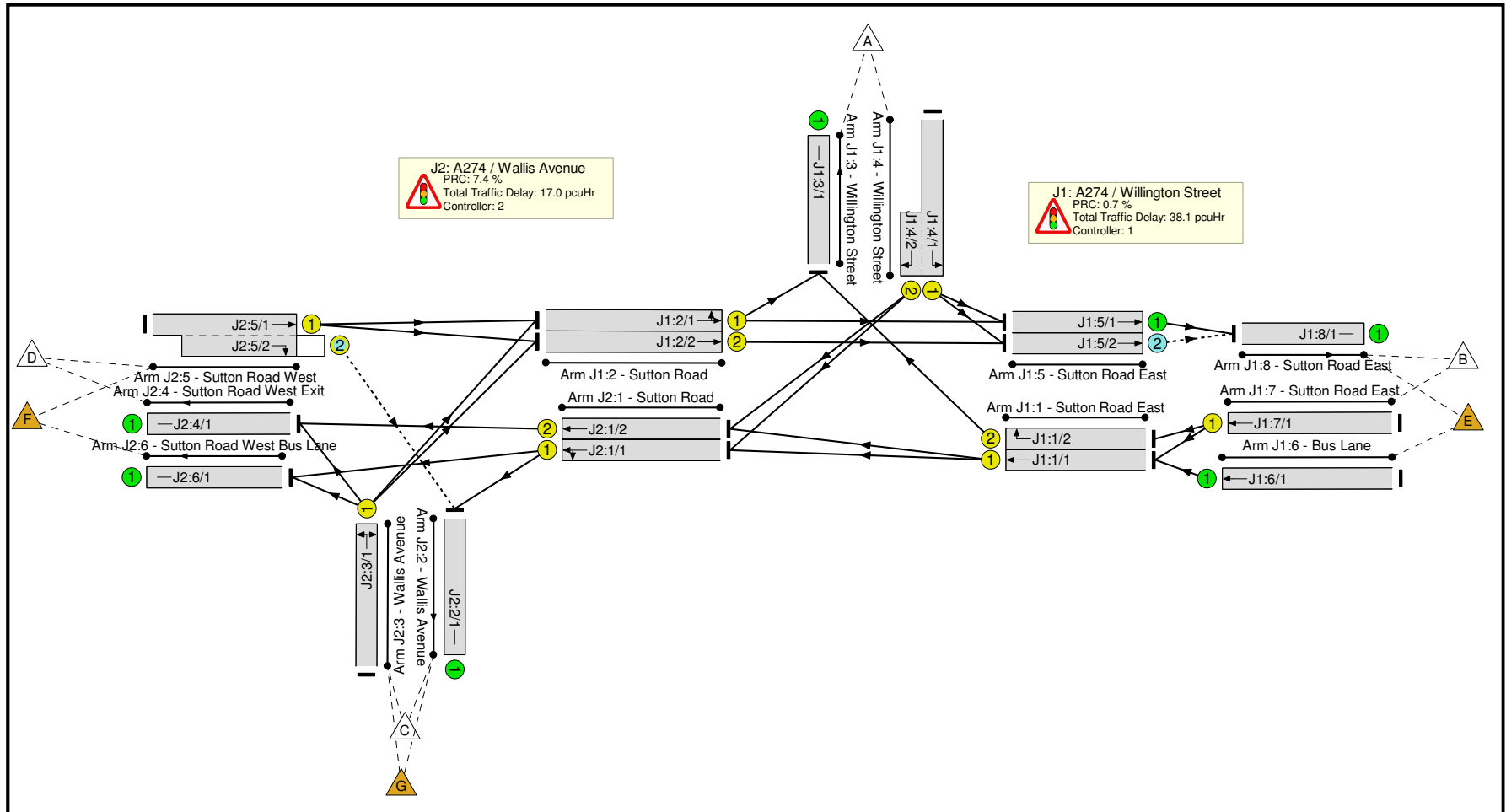


## Do Something Option 1

## Future Do Something Option 1 AM Peak

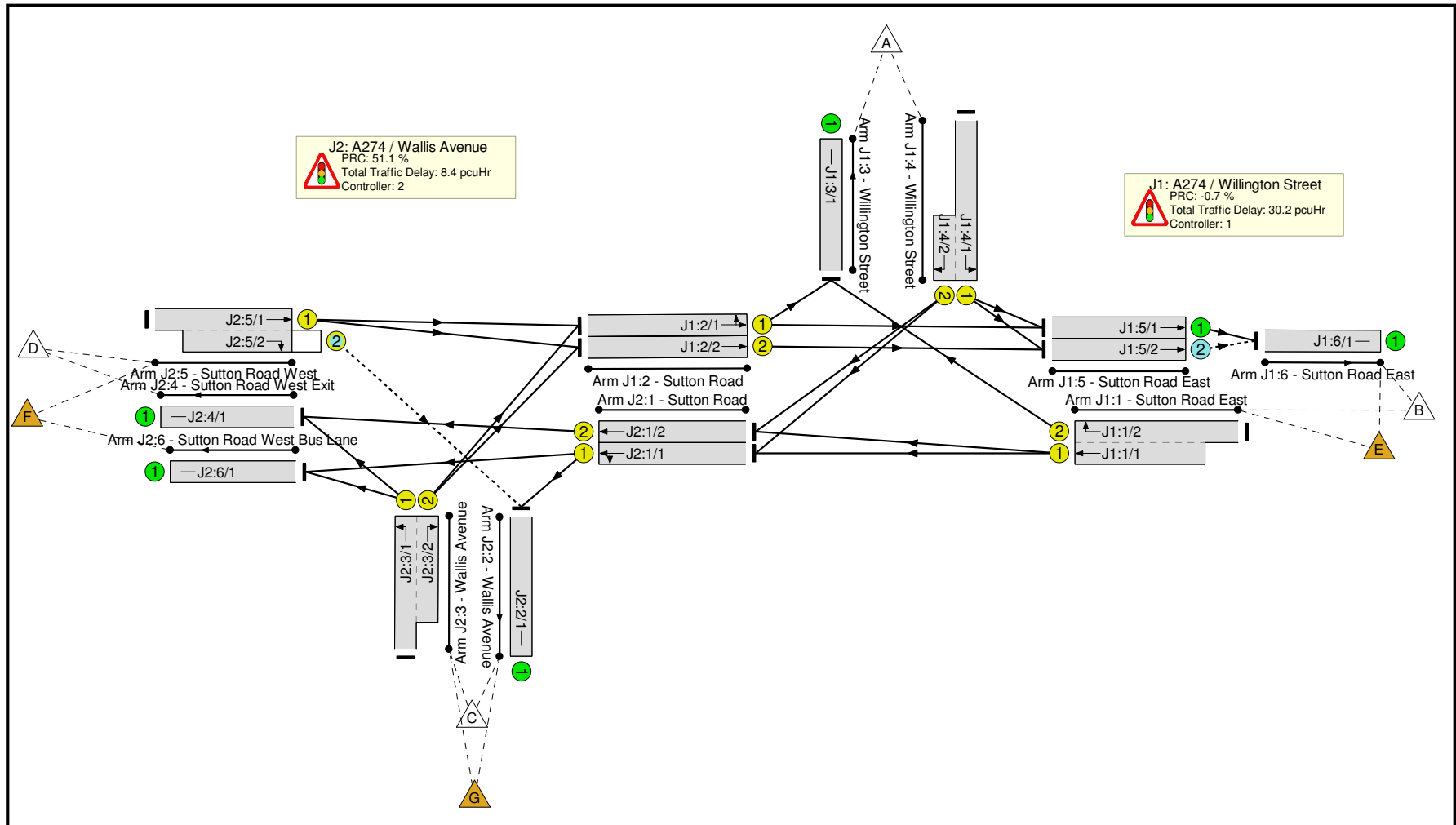


## Future Do Something Option 1 PM Peak

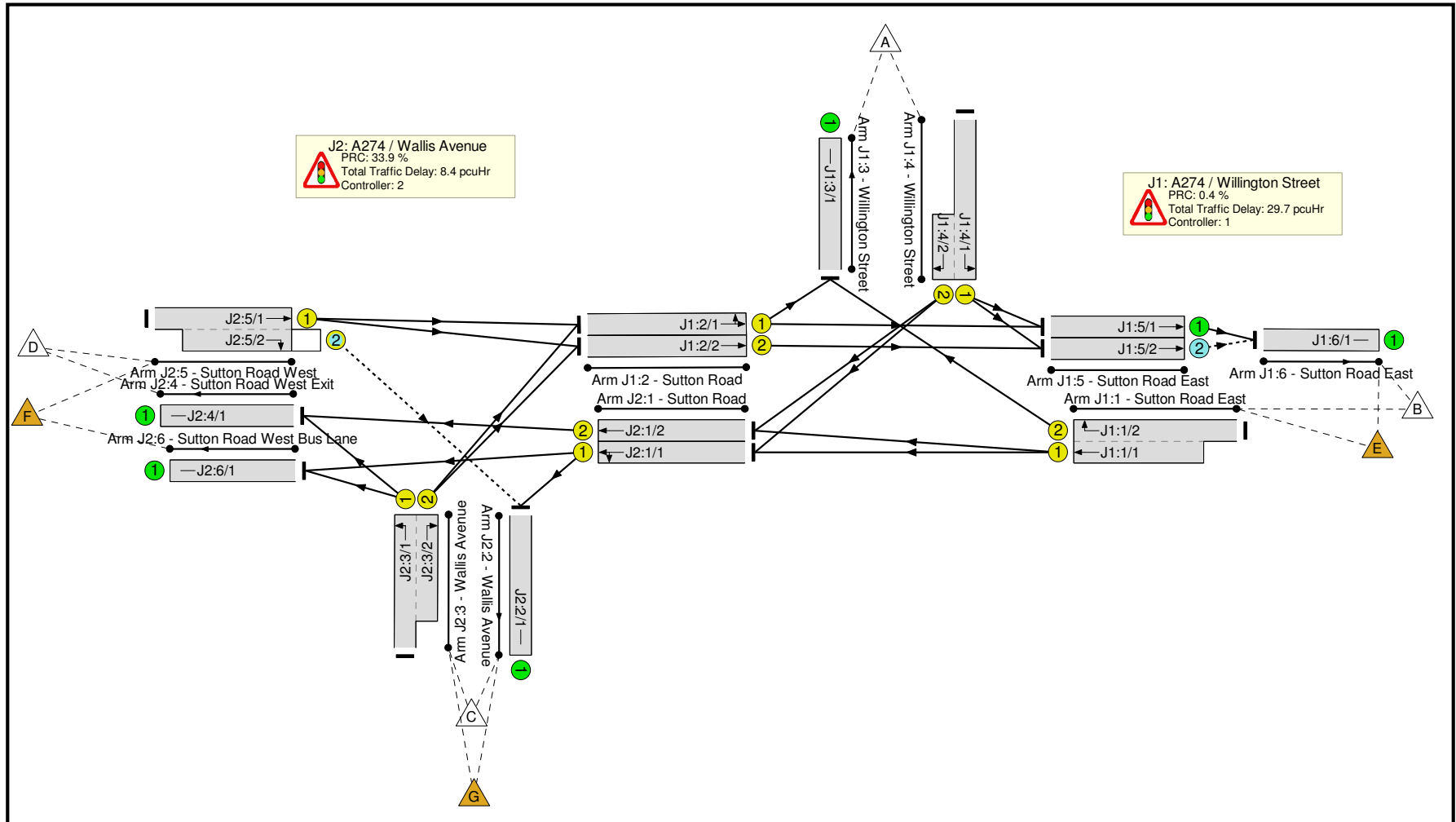


## Do Something Option 2

### Future Do Something Option 2 AM Peak



## Future Do Something Option 2 PM Peak



## B. Drawings of Proposed Bus Priority Measures

### B.1 Introduction

- B.1.1 This appendix contains the feasibility-stage drawings of the proposed bus priority measures for the corridor. Drawing MMD-359471-L-DR-00-XX-001 contains an overview plan indicating the extent of each drawing and indicates the five sections into which the corridor has been divided.

### B.2 Section A – Sheal’s Crescent to The Wheatsheaf Junction

- B.2.1 This section includes drawing numbers:
- MMD-359471-L-DR-00-XX-002
  - MMD-359471-L-DR-00-XX-003
  - MMD-359471-L-DR-00-XX-004

### B.3 Section B – Approaches to the Wheatsheaf Junction

- B.3.1 This section overlaps with section A, and includes:
- MMD-359471-L-DR-00-XX-004
  - MMD-359471-L-DR-00-XX-005

### B.4 Section C – Inbound Movements to the Existing Bus Lane at Maidstone Cemetery

- B.4.1 This section includes drawings:
- MMD-359471-L-DR-00-XX-006, 008 and 010, which are options for the westernmost section; the proposal shown in drawing 010 is recommended
  - MMD-359471-L-DR-00-XX-007, 009 and 011, which are options for the section; the proposal shown in drawing 011 is recommended
  - MMD-359471-L-DR-00-XX-012
  - MMD-359471-L-DR-00-XX-013
  - MMD-359471-L-DR-00-XX-014

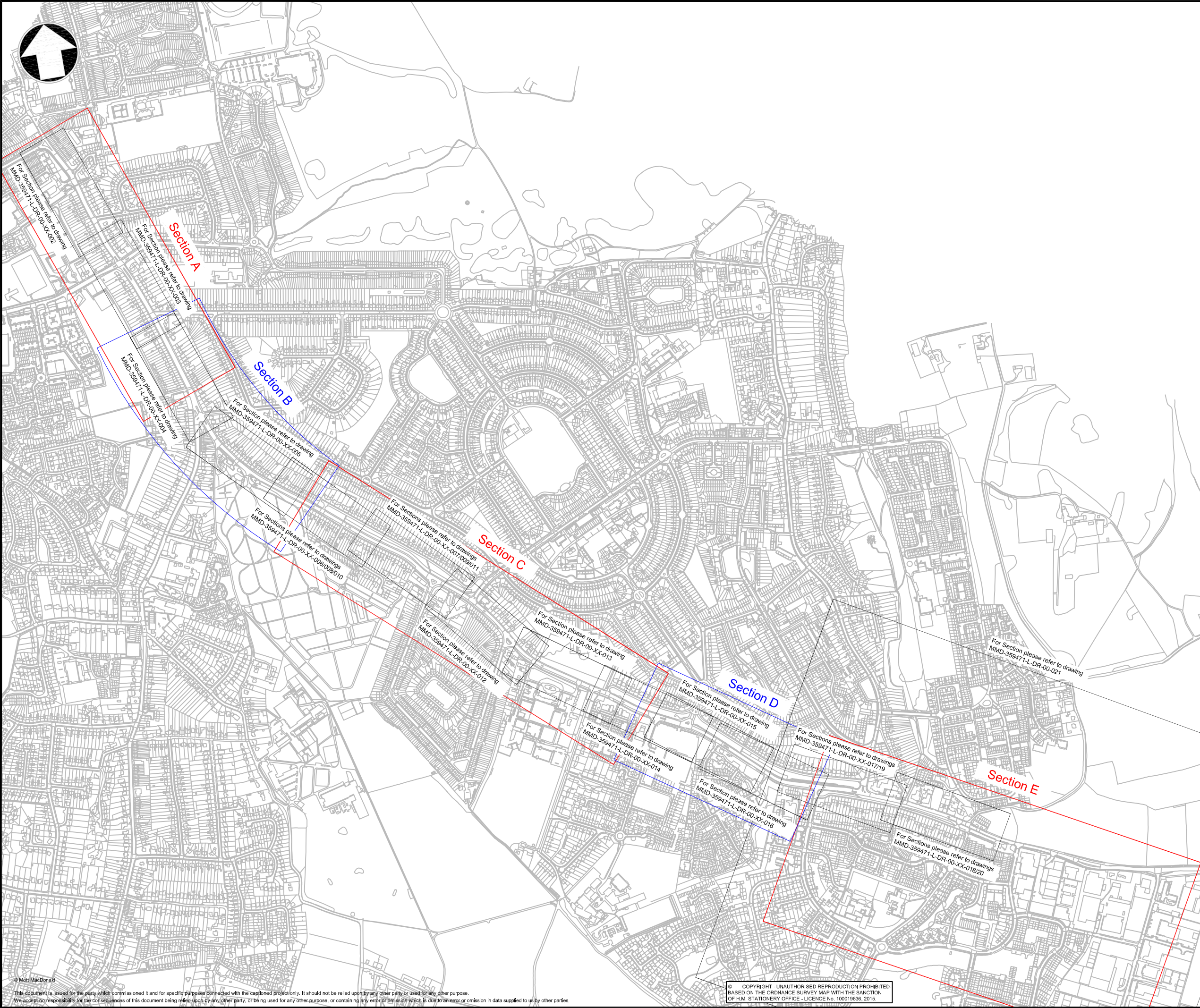
### B.5 Section D – The St Saviours Road Junction and Proposed Inbound Bus Lane

- B.5.1 This section includes drawings:
- MMD-359471-L-DR-00-XX-015
  - MMD-359471-L-DR-00-XX-016

## **B.6            Section E – Inbound Movements to the Wallis Avenue and Willington Street Junction**

- B.6.1           This section includes drawings:
- MMD-359471-L-DR-00-XX-017 and 018 which are not the recommended option
  - MMD-359471-L-DR-00-XX-019, 020 and 021, which are recommended






Notes

1. Existing and Proposed line markings are shown indicatively

Key to symbols


Reference drawings

P1	04/12/2015	ACB	Preliminary Design	TG	RH
Rev	Date	Drawn	Description	Ch'k'd	App'd



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Client



MAIDSTONE  
Borough Council

Title

Maidstone Bus Corridor  
Alignment Proposals

Scheme Overview

Designed	ACB	Eng check	TG
Drawn	ACB	Coordination	TG
Dwg check	TG	Approved	RH
Scale at A1	Status	Rev	P1

1:5000DraftP1

Drawing Number

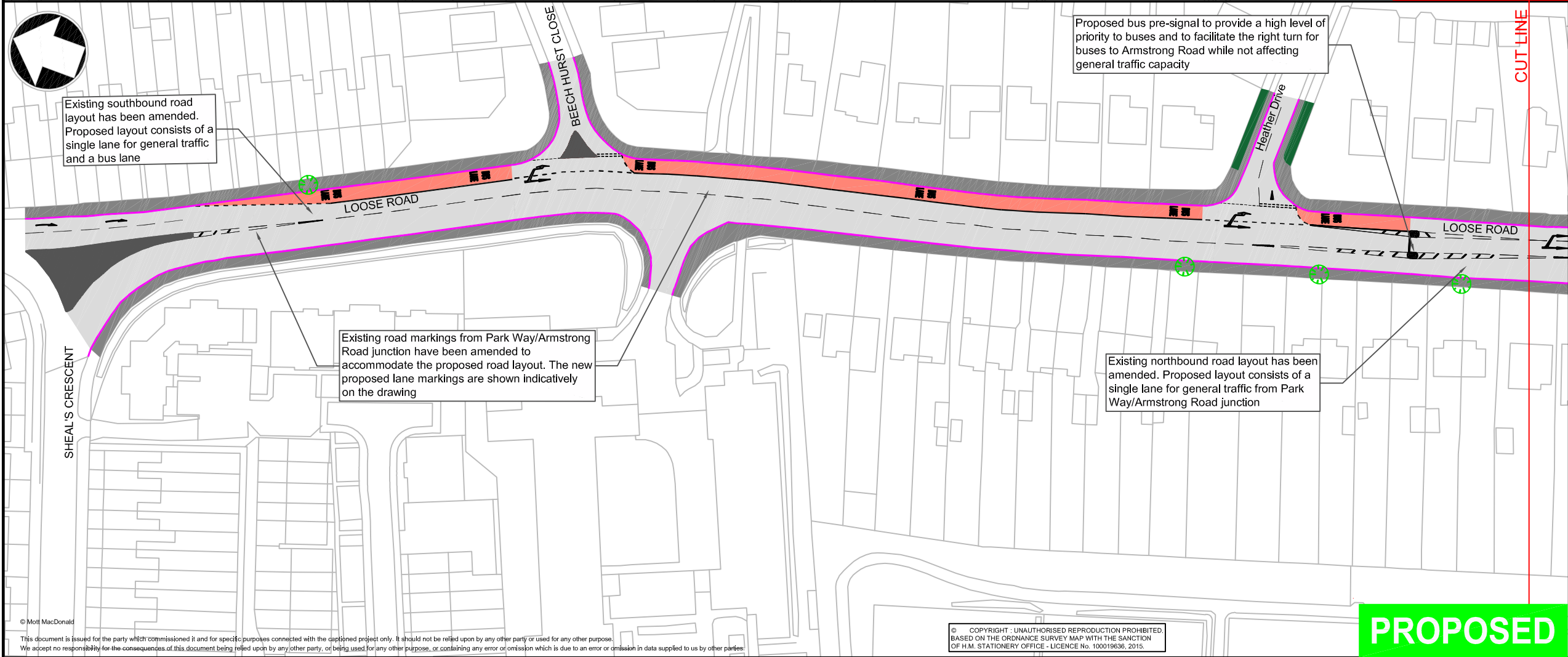
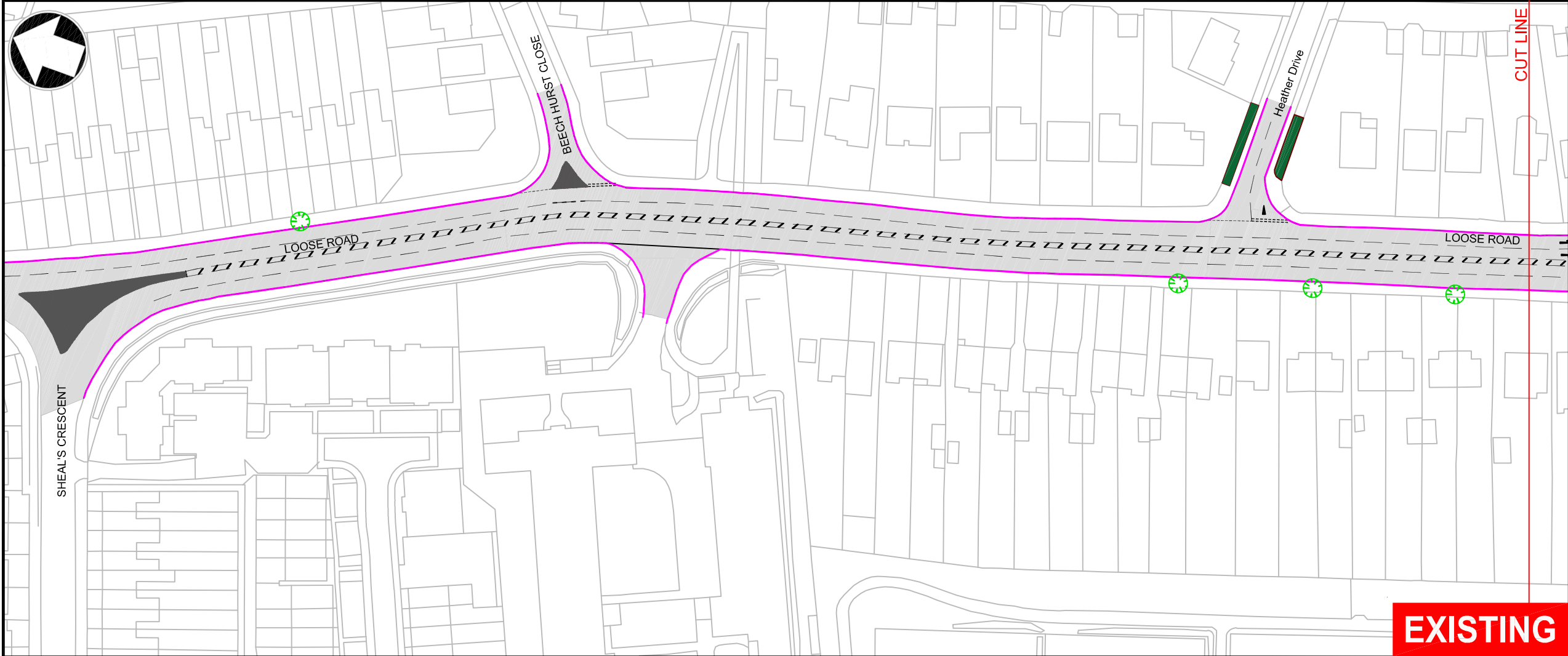
MMD-359471-L-DR-00-XX-001

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P:\Croydon\VOY\1TL\359471 Maidstone Bus Corridor\Drawings\Maidstone\_Corridor\_C Bus Design - Adam V2.2.dwg Dec 4, 2015 - 12:17PM bel7244





Notes

1. Existing and Proposed line markings are shown indicatively

Key to symbols

Carriageway

Footway

Verge

Lane Markings

Proposed Bus Lane

Pre-Signal Island

Existing Kerb

Modified Kerb

Traffic Island

Trees

Trees to be removed

Trees to be planted

Reference drawings

P1	04/12/2015	TT	Preliminary Design	TG	RH
Rev	Date	Drawn	Description	Ch'kd	App'd

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Borough Council

Title

Bus Corridor Proposals  
Loose Road from Sheal's Crescent  
to Armstrong Road

Designed	TT	Eng check	TG
Drawn	TT	Coordination	TG
Dwg check	TG	Approved	RH
Scale at A1	Status	Rev	P1

Drawing Number

MMD-359471-L-DR-00-XX-002

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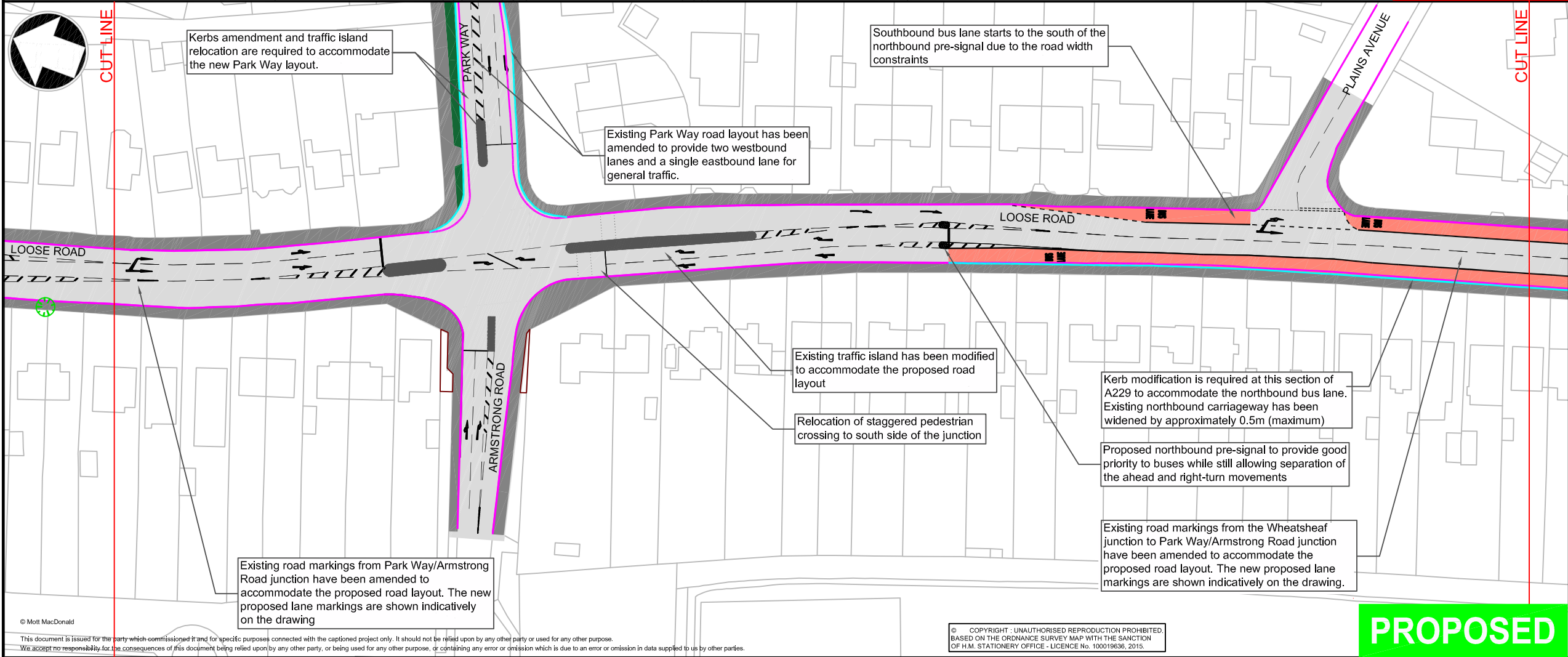
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PROPOSED

P:\Croydon\VOY\ITL\359471 Maldstone Bus Corridor\Drawings\TT Drawings\Current\Maldstone\_Corridor\_C Bus Design  
\_TT\_DRAFT\_v3\_Option\_Final.dwg Dec 4, 2015 - 12:36PM bel67244





Notes

1. Existing and Proposed line markings are shown indicatively

Key to symbols

- Carriageway
- Footway
- Verge
- Lane Markings
- Proposed Bus Lane
- Pre-Signal Island
- Existing Kerb
- Modified Kerb
- Traffic Island
- Trees
- Trees to be removed
- Trees to be planted

Reference drawings

P1	04/12/2015	TT	Preliminary Design	TG	RH
Rev	Date	Drawn	Description	Ch'kd	App'd

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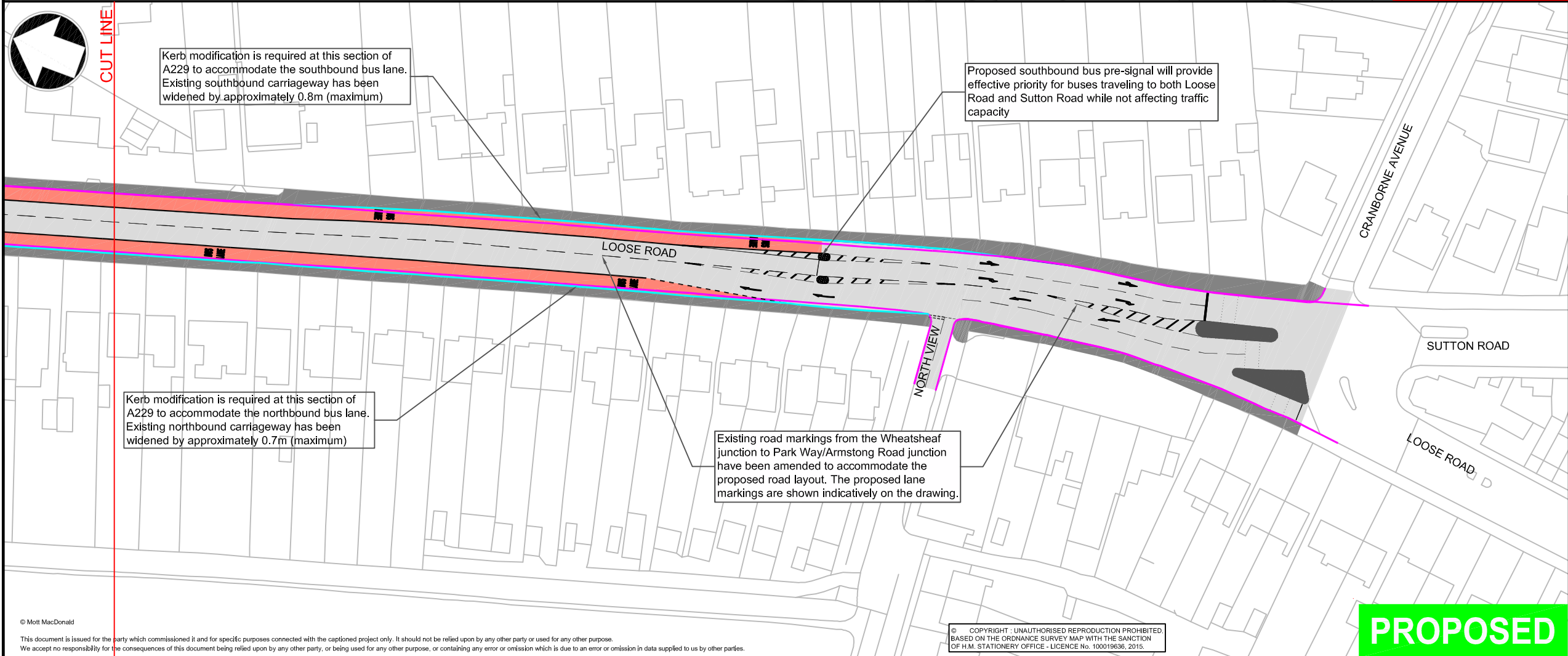
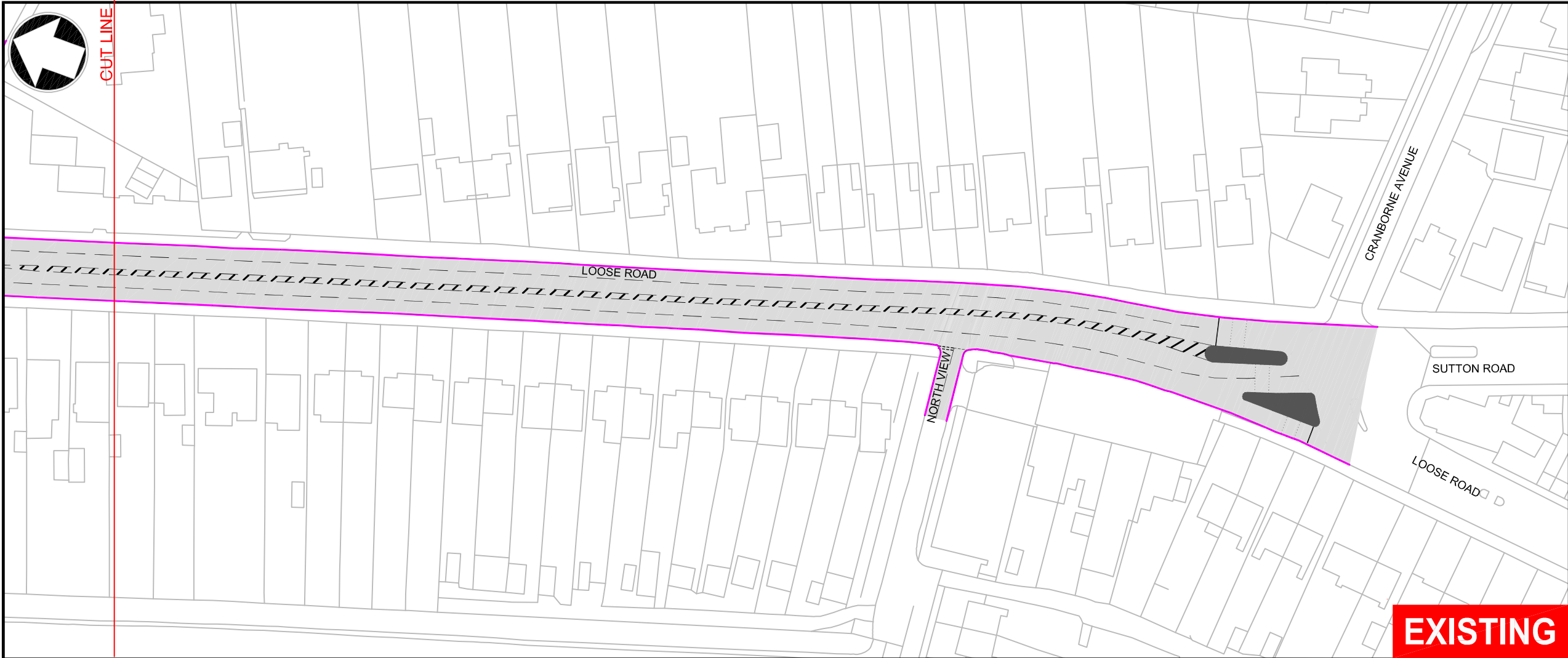
Bus Corridor Proposals  
Loose Road from Armstrong Road  
to Plains Avenue

Designed	TT	Eng check	TG
Drawn	TT	Coordination	TG
Dwg check	TG	Approved	RH
Scale at A1	Status	Rev	

1:500

Drawing Number

MMD-359471-L-DR-00-XX-003



Notes

1. Existing and Proposed line markings are shown indicatively

Key to symbols

- Carriageway
- Footway
- Verge
- Lane Markings
- Proposed Bus Lane
- Pre-Signal Island
- Existing Kerb
- Modified Kerb
- Traffic Island
- Trees
- Trees to be removed
- Trees to be planted

Reference drawings

P1	04/12/2015	TT	Preliminary Design	TG	RH
Rev	Date	Drawn	Description	Ch'k'd	App'd

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Title

Bus Corridor Proposals  
Loose Road from Plains Avenue  
to Wheatsheaf Junction

Designed	TT	Eng check	TG
Drawn	TT	Coordination	TG
Dwg check	TG	Approved	RH
Scale at A1	Status	Rev	P1

1:500

Drawing Number

MMD-359471-L-DR-00-XX-004





Notes

1. Existing and Proposed line markings are shown indicatively

Key to symbols

Carriageway

Footway

Reference drawings

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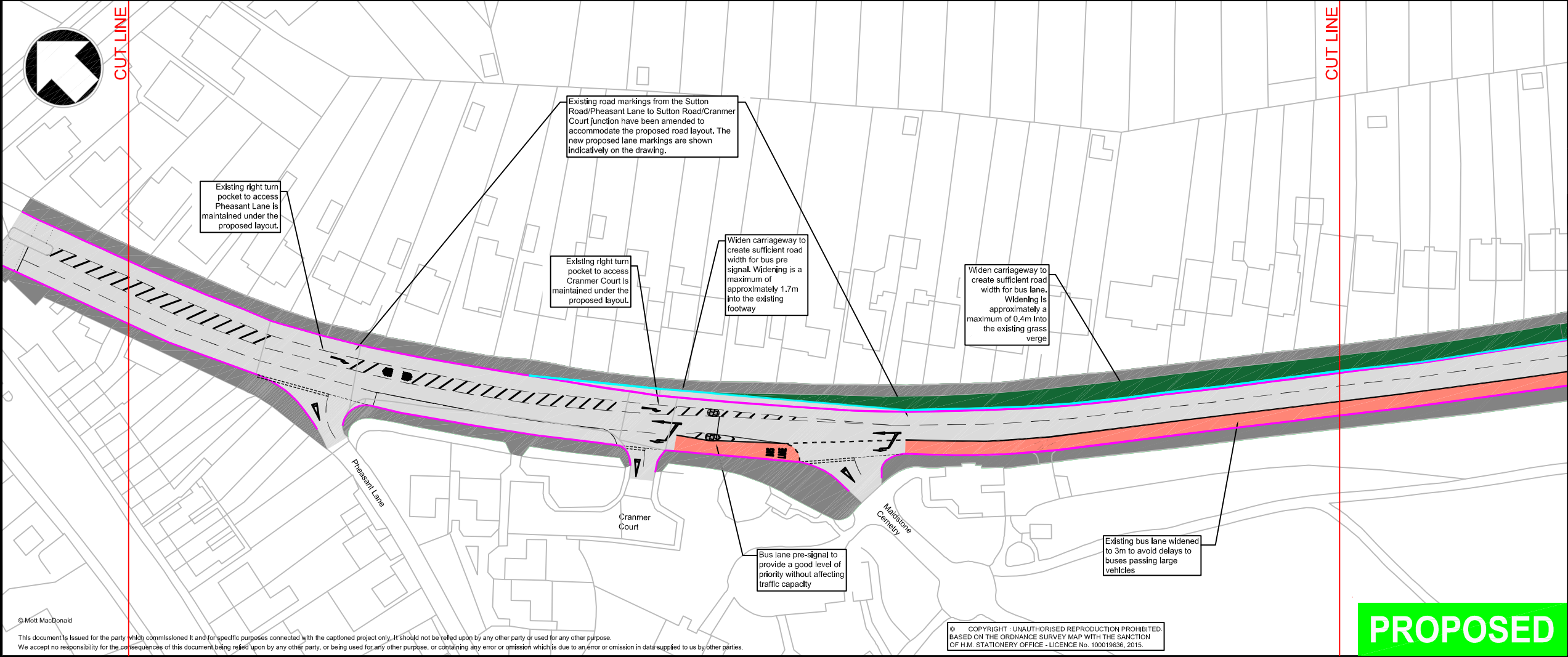
  
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Borough Council

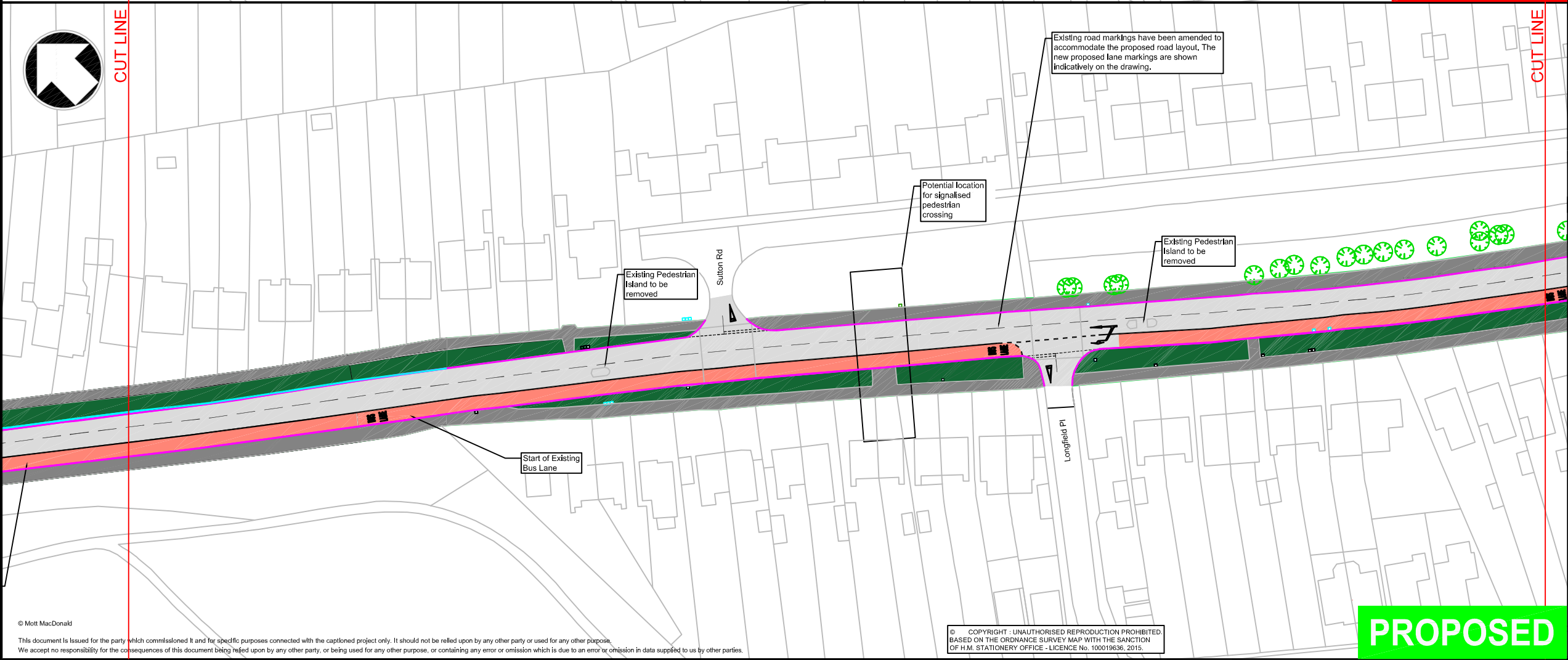
Title

Sutton Road Alignment Proposals  
Sutton Road from Wheatsheaf  
Junction to start of existing bus lane  
Option 1 of 1  
Sheet 1 of 1

Drawing Number

MMD-359471-L-DR-00-XX-005





Notes

1. Existing and Proposed line markings are shown indicatively

Key to symbols

- Carriageway
- Footway
- Verge
- Lane Markings
- Proposed Bus Lane
- Pre-Signal Island
- Existing Kerb
- Modified Kerb
- Traffic Island
- Trees
- Trees to be removed
- Trees to be planted

Reference drawings

Rev	Date	Drawn	Description	Ch'k'd	App'd
P1	04/12/2015	ACB	Preliminary Design	TG	RH

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Title

Sutton Road Alignment Proposals  
Sutton Road from start of existing  
bus lane to Mangravel Ave  
Option 1 of 3  
Sheet 1 of 2

Designed	ACB	Eng check	TG
Drawn	ACB	Coordination	TG
Dwg check	TG	Approved	RH
Scale at A1	1:500	Status	Draft
		Rev	P1

Drawing Number

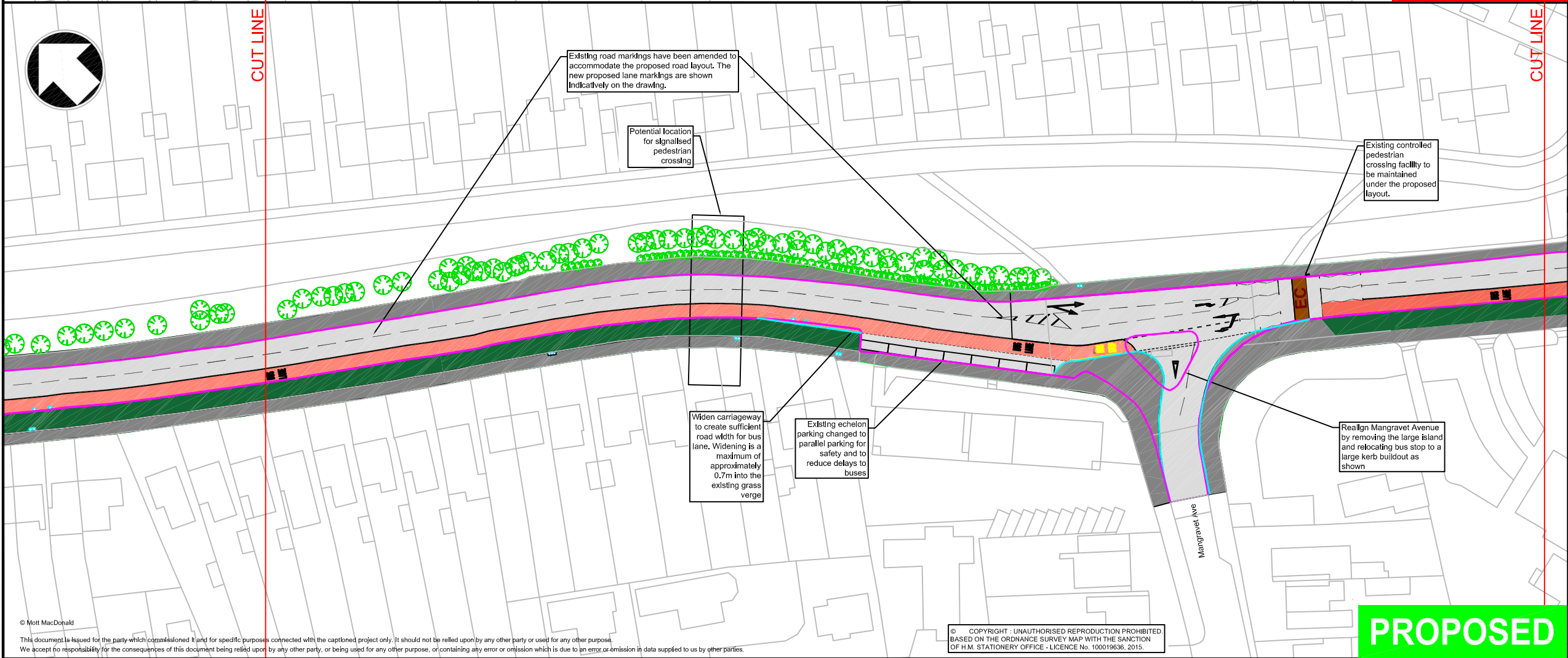
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Notes

1. Existing and Proposed line markings are shown indicatively

Key to symbols

	Carriageway
	Footway
	Verge
	Lane Markings
	Proposed Bus Lane
	Pre-Signal Island
	Existing Kerb
	Modified Kerb
	Existing Controlled Crossing
	Traffic Island
	Trees
	Trees to be removed
	Trees to be planted

Reference drawings

P1	04/12/2015	ACB	Preliminary Design	TG	RH
Rev	Date	Drawn	Description	Ch'k'd	App'd

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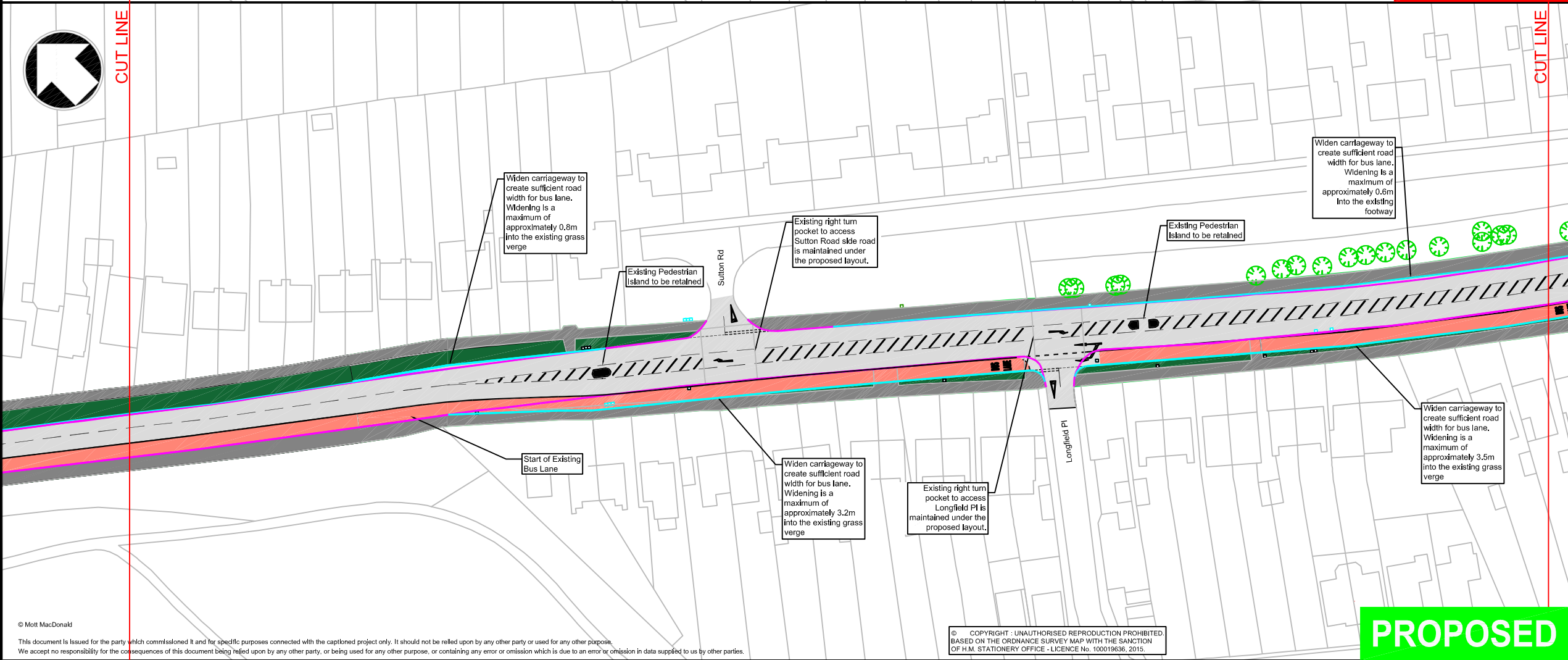
Title

Sutton Road Alignment Proposals  
Sutton Road from start of existing  
bus lane to Mangravet Ave  
Option 1 of 3  
Sheet 2 of 2

Designed	ACB	Eng check	TG
Drawn	ACB	Coordination	TG
Dwg check	TG	Approved	RH
Scale at A1	1:500	Status	Draft
Rev	P1		

Drawing Number

MMD-359471-L-DR-00-XX-007



Notes

1. Existing and Proposed line markings are shown indicatively

Key to symbols

- Carriageway
- Footway
- Verge
- Lane Markings
- Proposed Bus Lane
- Pre-Signal Island
- Existing Kerb
- Modified Kerb
- Traffic Island
- Trees
- Trees to be removed
- Trees to be planted

Reference drawings

P1	04/12/2015	ACB	Preliminary Design	TG	RH
Rev	Date	Drawn	Description	Ch'k'd	App'd

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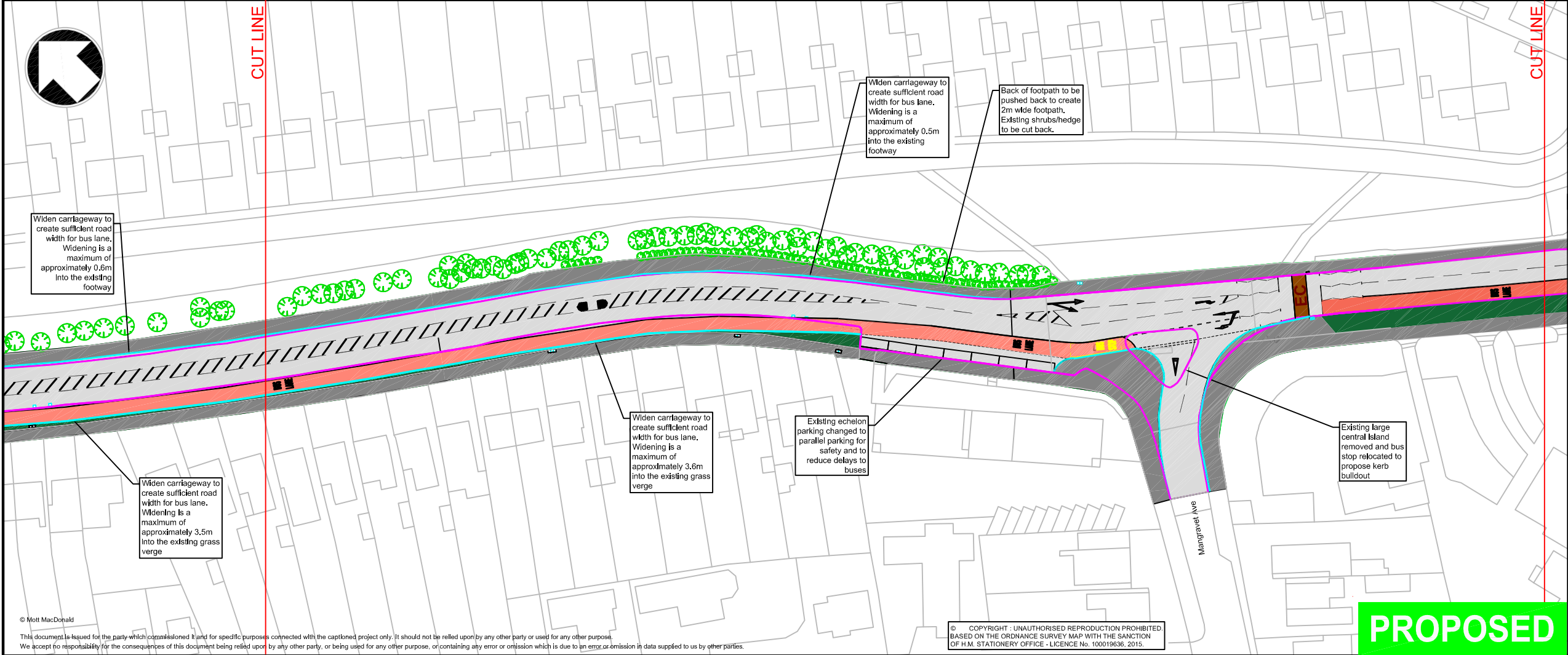
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Title

Sutton Road Alignment Proposals  
Sutton Road from start of existing  
bus lane to Mangravet Ave  
Option 2 of 3  
Sheet 1 of 2

Designed	ACB	Eng check	TG
Drawn	ACB	Coordination	TG
Dwg check	TG	Approved	RH
Scale at A1	1:500	Status	Draft
Drawing Number	MMD-359471-L-DR-00-XX-008	Rev	P1





Notes

1. Existing and Proposed line markings are shown indicatively

Key to symbols

	Carriageway
	Footway
	Verge
	Lane Markings
	Proposed Bus Lane
	Pre-Signal Island
	Existing Kerb
	Modified Kerb
	Traffic Island
	Trees
	Trees to be removed
	Trees to be planted

Reference drawings

P1	04/12/2015	ACB	Preliminary Design	TG	RH
Rev	Date	Drawn	Description	Ch'k'd	App'd

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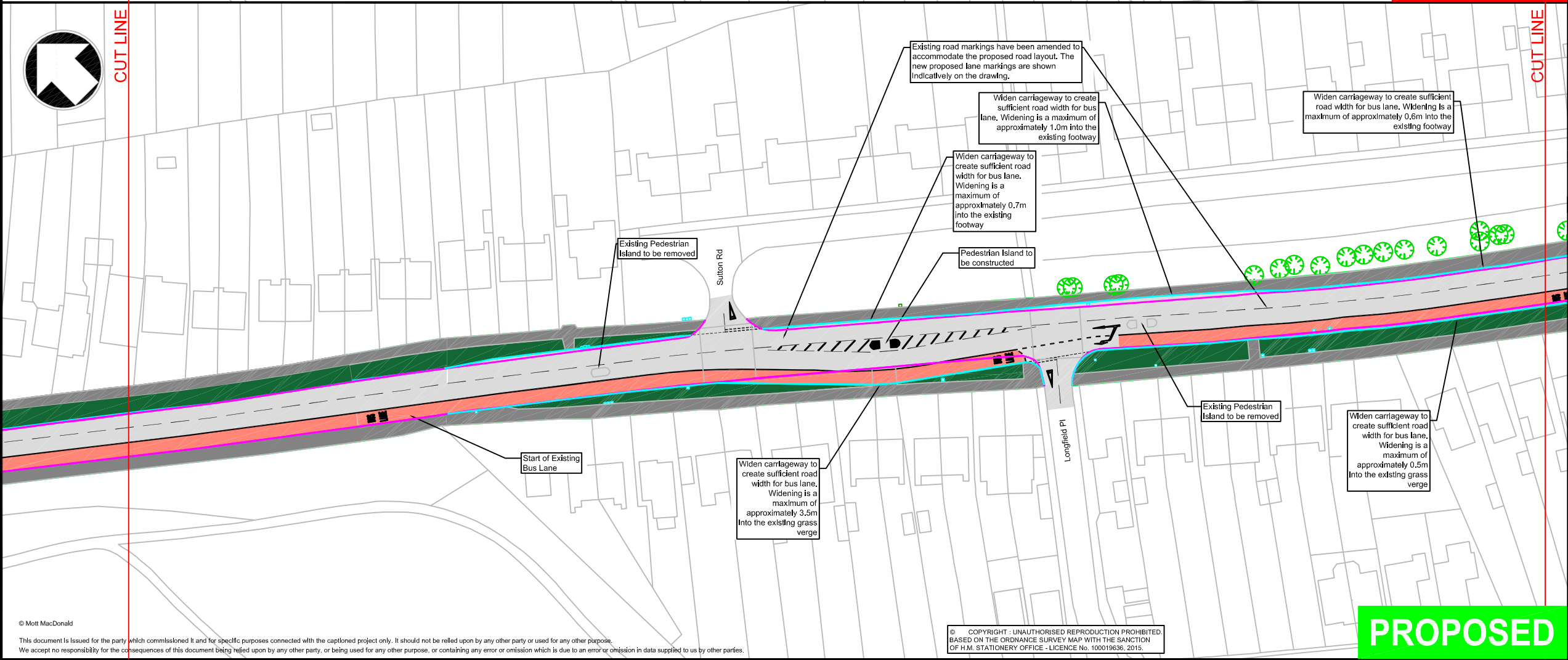
Title

Sutton Road Alignment Proposals  
Sutton Road from start of existing  
bus lane to Mangravet Ave  
Option 2 of 3  
Sheet 2 of 2

Designed	ACB	Eng check	TG
Drawn	ACB	Coordination	TG
Dwg check	TG	Approved	RH
Scale at A1	1:500	Status	Draft
Rev	P1		

Drawing Number

MMD-359471-L-DR-00-XX-009



Notes

1. Existing and Proposed line markings are shown indicatively

Key to symbols

- Carriageway
- Footway
- Verge
- Lane Markings
- Proposed Bus Lane
- Pre-Signal Island
- Existing Kerb
- Modified Kerb
- Traffic Island
- Trees
- Trees to be removed
- Trees to be planted

Reference drawings

P1	04/12/2015	ACB	Preliminary Design	TG	RH
Rev	Date	Drawn	Description	Ch'k'd	App'd

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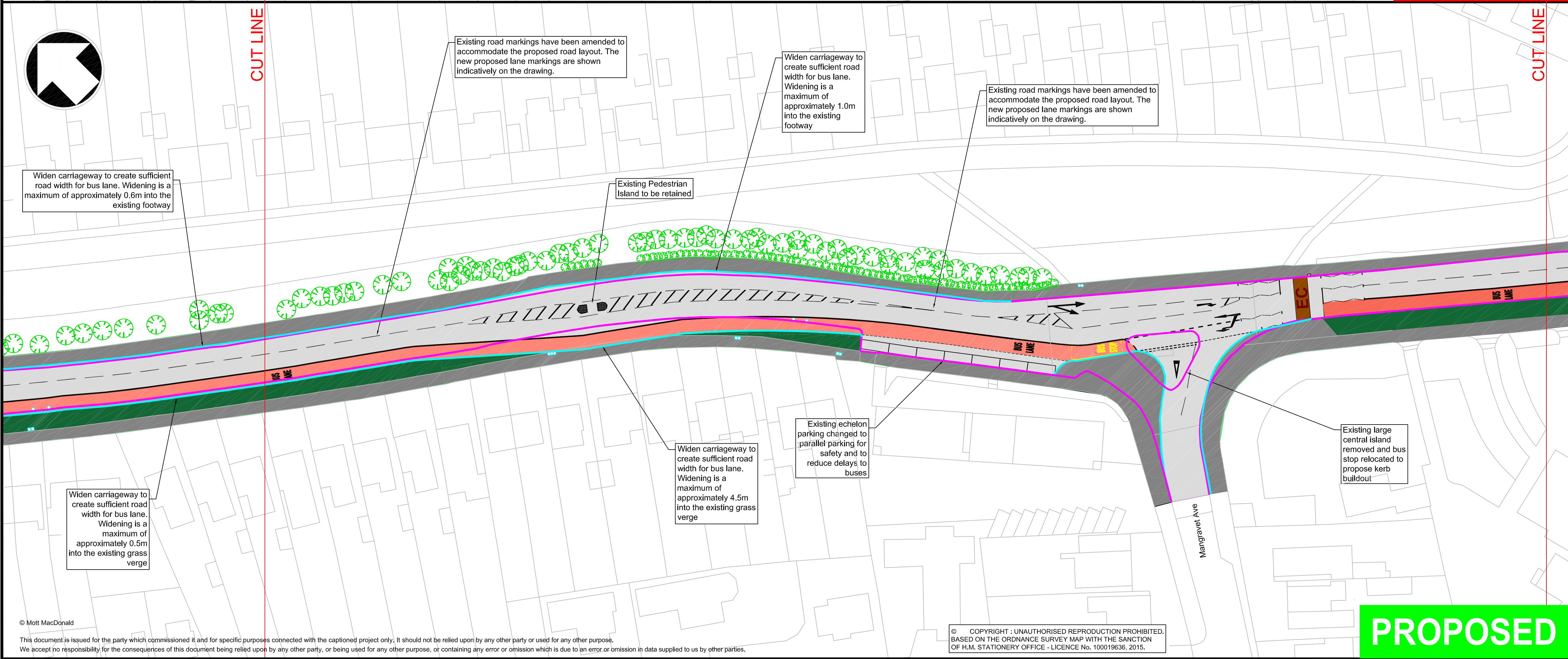
Sutton Road Alignment Proposals  
Sutton Road from start of existing  
bus lane to Mangravet Ave  
Option 3 of 3  
Sheet 1 of 2

Designed	ACB	Eng check	TG
Drawn	ACB	Coordination	TG
Dwg check	TG	Approved	RH
Scale at A1	1:500	Status	Draft
Rev	P1		

Drawing Number

MMD-359471-L-DR-00-XX-010





Notes

1. Existing and Proposed line markings are shown indicatively

Key to symbols

- Carriageway
- Footway
- Verge
- Lane Markings
- Proposed Bus Lane
- Pre-Signal Island
- Existing Kerb
- Modified Kerb
- Traffic Island
- Trees
- Trees to be removed
- Trees to be planted

Reference drawings

Rev	Date	Drawn	Description	Ch'k'd	App'd
P1	04/12/2015	ACB	Preliminary Design	TG	RH

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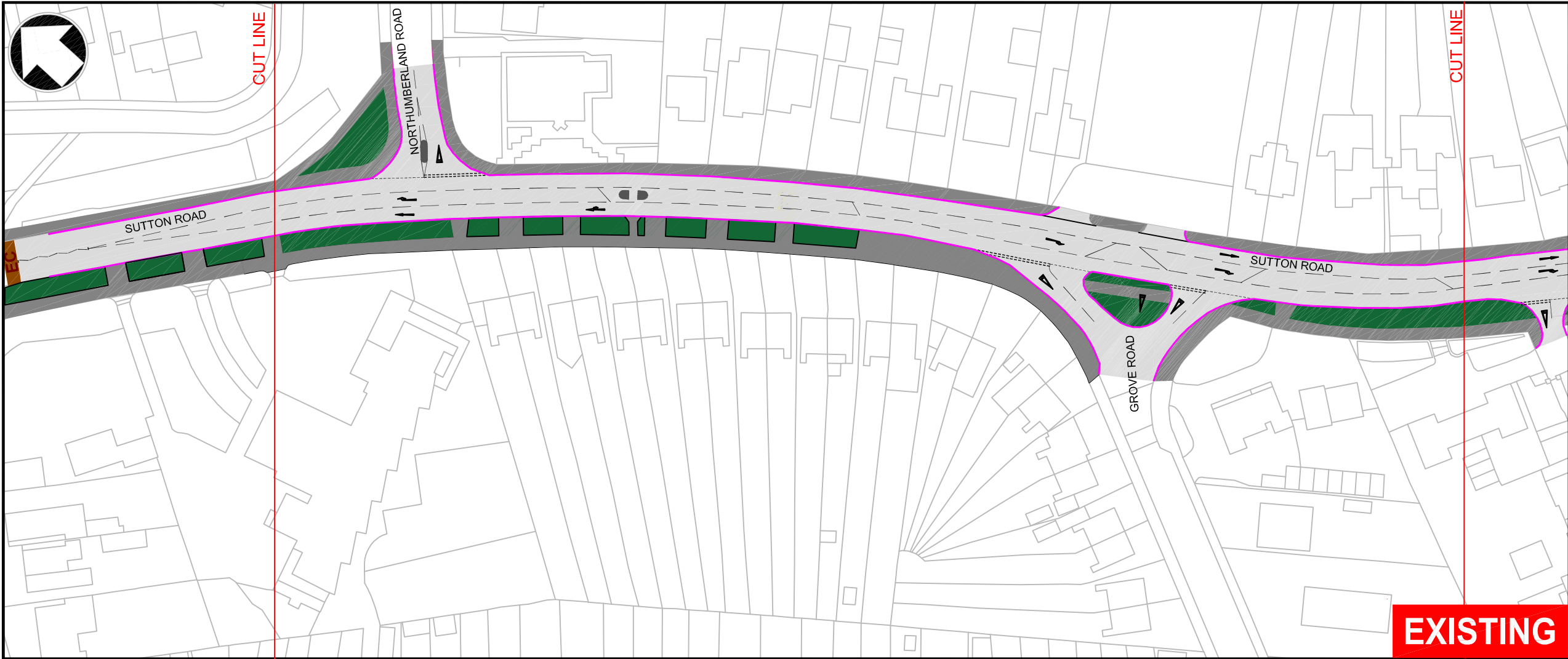
MAIDSTONE  
Borough Council

Title

Sutton Road Alignment Proposals  
Sutton Road from start of existing  
bus lane to Mangravel Ave  
Option 3 of 3  
Sheet 2 of 2

Designed	ACB	Eng check	TG
Drawn	ACB	Coordination	TG
Dwg check	TG	Approved	RH
Scale at A1	1:500	Status	Draft
Drawing Number	MMD-359471-L-DR-00-XX-011	Rev	P1





Notes

1. Existing and Proposed line markings are shown indicatively

Key to symbols

Proposed Carriageway

Proposed Footway

Proposed Verge

Proposed Lane Markings

Proposed Bus Lane

Existing Kerb

Modified Kerb

Existing Controlled Crossing

Proposed Toucan Crossing

Traffic Island

Trees

Trees to be removed

Trees to be planted

Reference drawings

P1	04/12/2015	TT	Preliminary Design	TG	RH
Rev	Date	Drawn	Description	Ch'k'd	App'd

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Client

MAIDSTONE  
Borough Council

Title

Bus Corridor Proposals  
Sutton Road from  
Northumberland Road to  
Grove Road

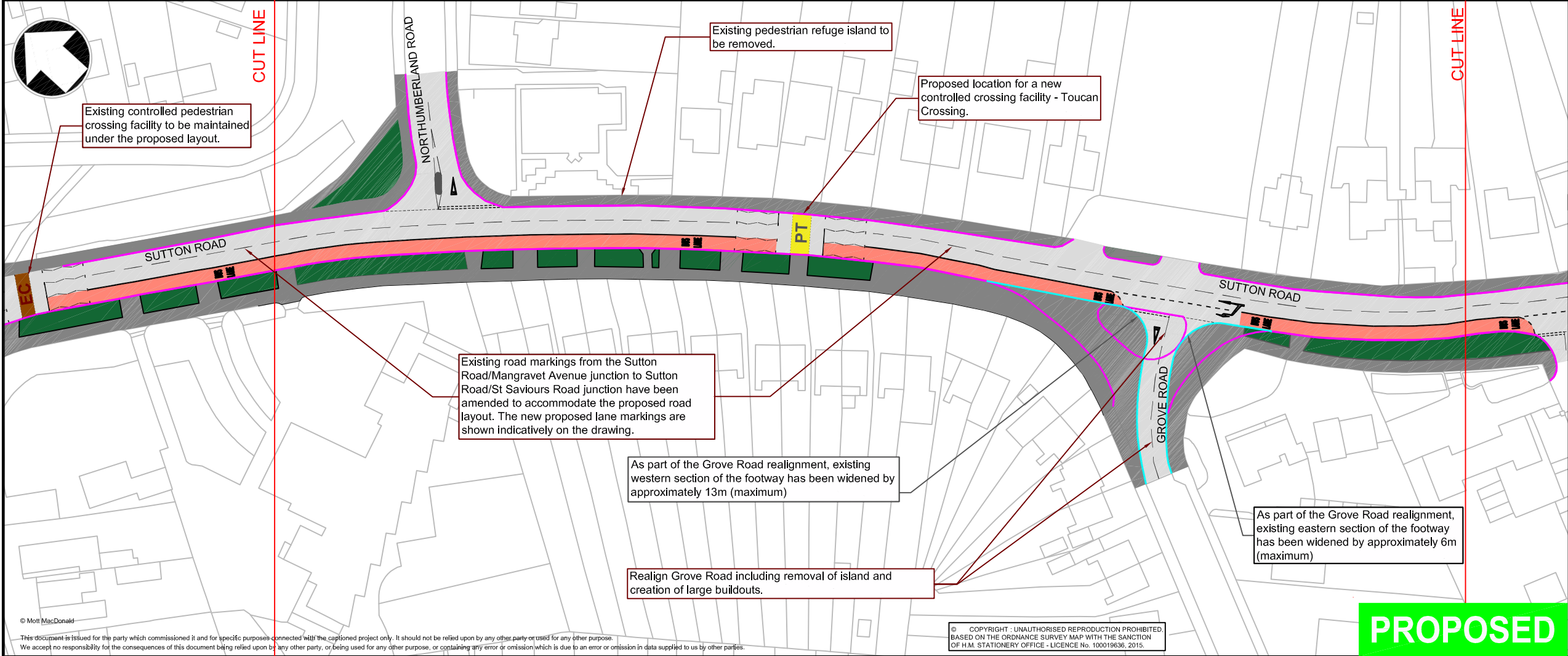
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Drawn	TT	Coordination	TG
Dwg check	TG	Approved	RH
Scale at A1	Status	Rev	

1:500

P1

Drawing Number

MMD-359471-L-DR-00-XX-012



Reference drawings

P1	04/12/2015	TT	Preliminary Design	TG	RH
Rev	Date	Drawn	Description	Ch'k'd	App'd

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Client

MAIDSTONE  
Borough Council

Title

Bus Corridor Proposals  
Sutton Road from  
Northumberland Road to  
Grove Road

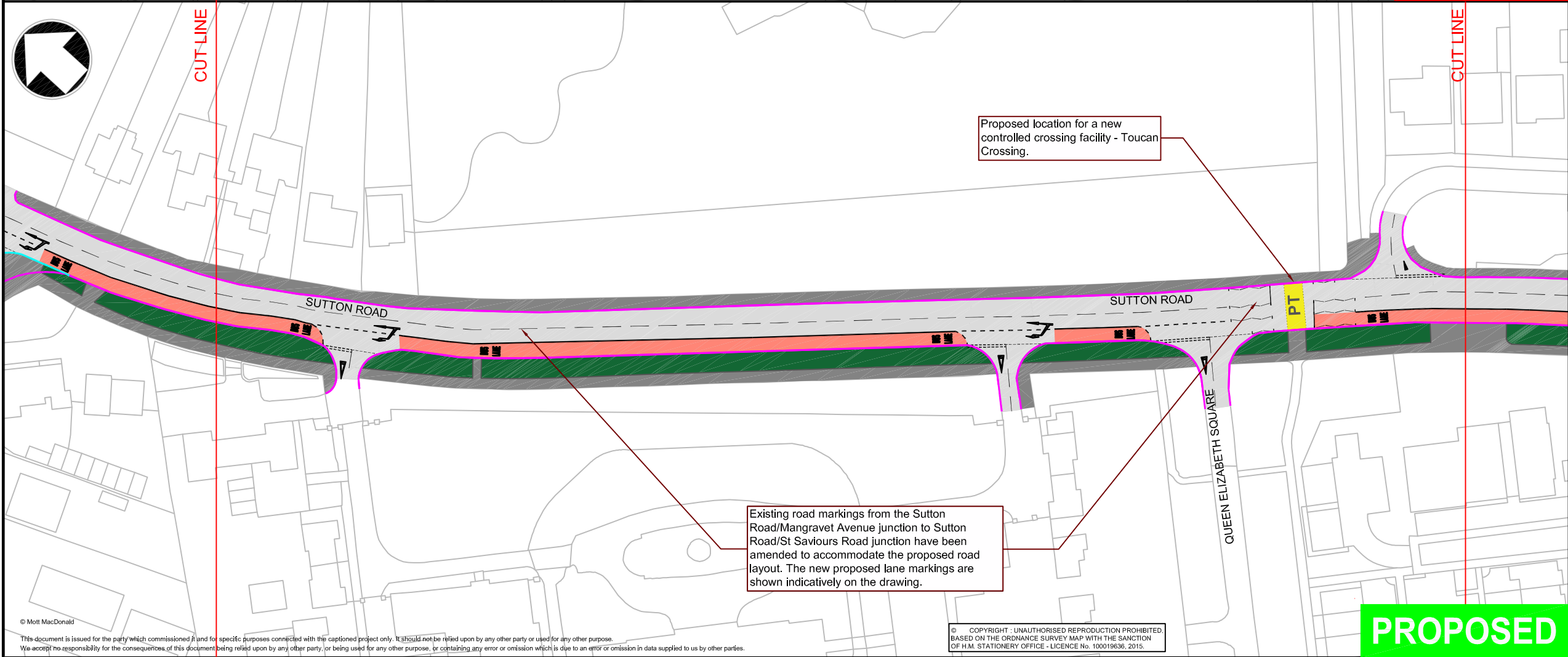
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Drawn	TT	Coordination	TG
Dwg check	TG	Approved	RH
Scale at A1	Status	Rev	

1:500

P1

Drawing Number

MMD-359471-L-DR-00-XX-012



Notes

1. Existing and Proposed line markings are shown indicatively

Key to symbols

- Proposed Carriageway
- Proposed Footway
- Proposed Verge
- Proposed Lane Markings
- Proposed Bus Lane
- Existing Kerb
- Modified Kerb
- Existing Controlled Crossing
- Proposed Toucan Crossing
- Traffic Island
- Trees
- Trees to be removed
- Trees to be planted

Reference drawings

Rev	Date	Drawn	Description	Ch'k'd	App'd
P1	04/12/2015	TT	Preliminary Design	TG	RH

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Client

Title

Bus Corridor Proposals  
Sutton Road from Grove Road  
to Queen Elizabeth Square

Designed	TT	Eng check	TG
Drawn	TT	Coordination	TG
Dwg check	TG	Approved	RH
Scale at A1	Status	Rev	

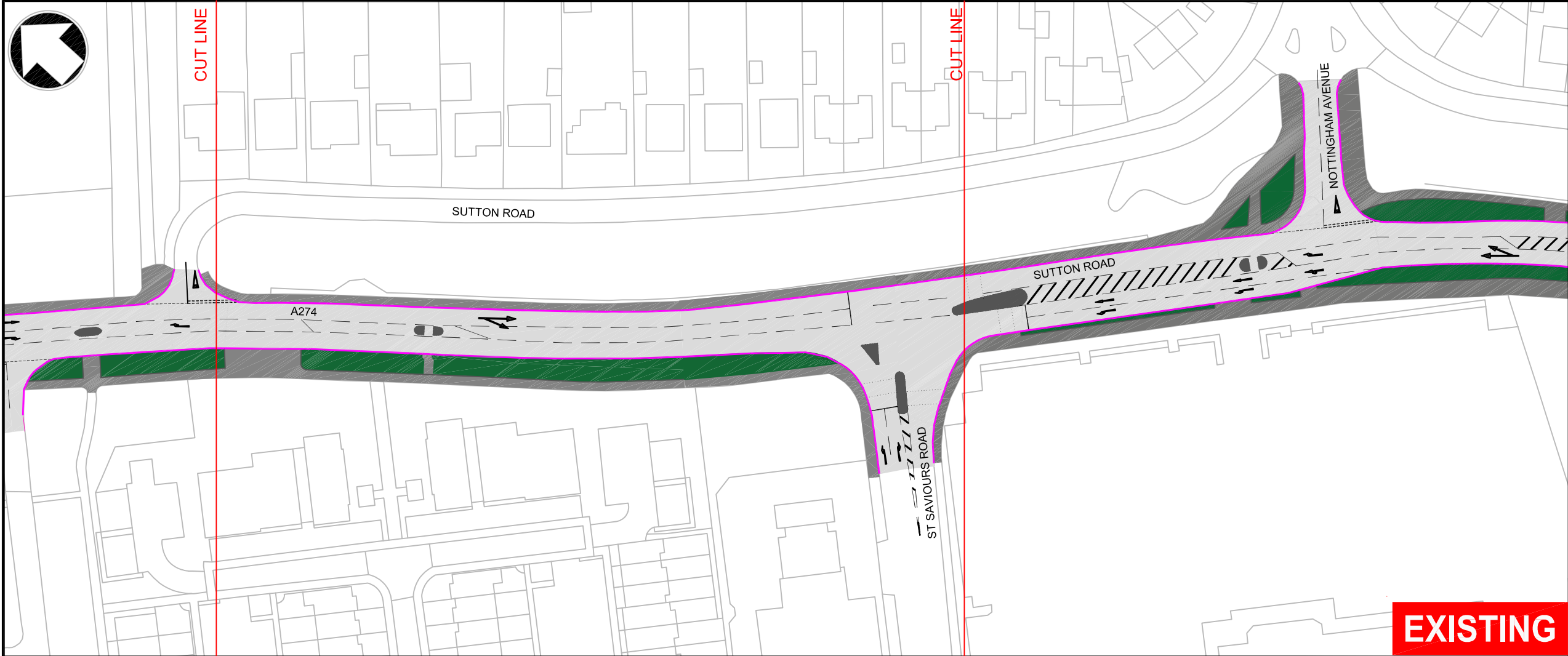
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P1

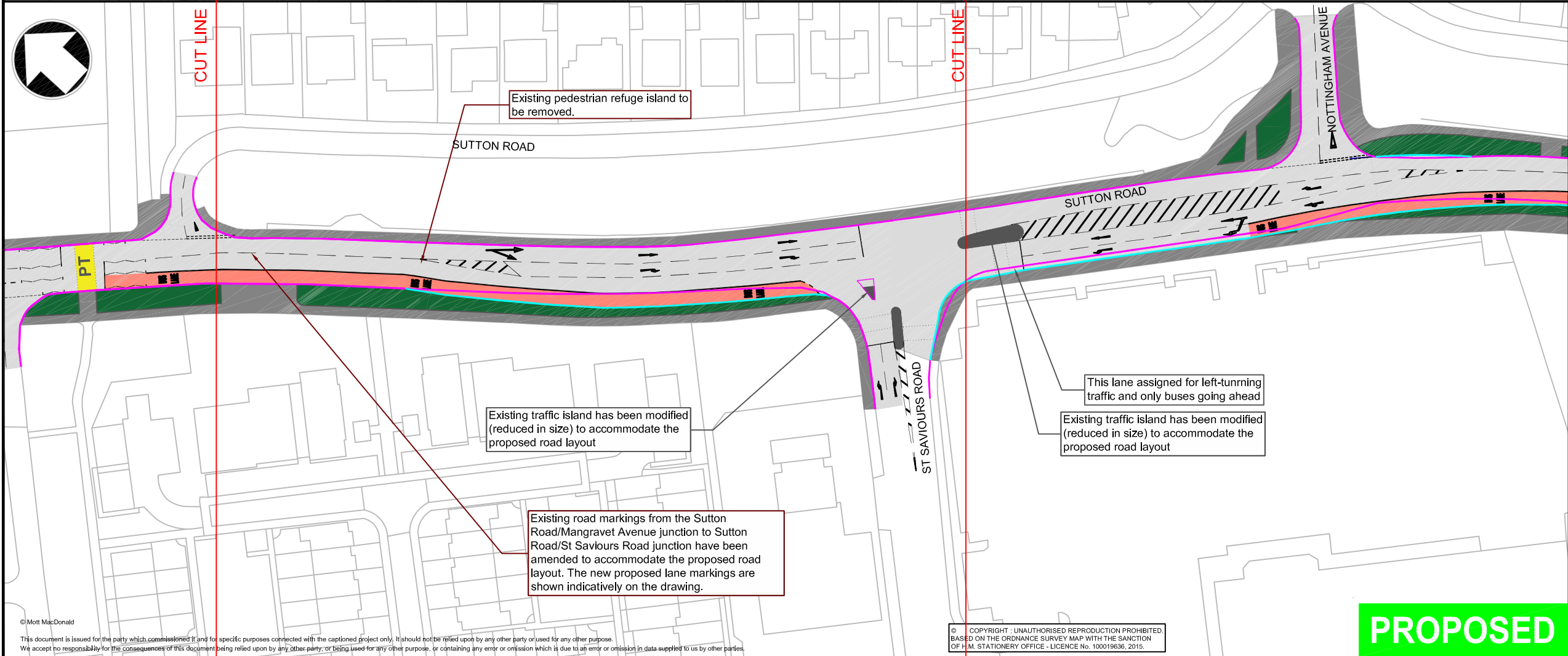
Drawing Number

MMD-359471-L-DR-00-XX-013





EXISTING



PROPOSED

Notes

1. Existing and Proposed line markings are shown indicatively

Key to symbols

- Proposed Carriageway
- Proposed Footway
- Proposed Verge
- Proposed Lane Markings
- Proposed Bus Lane
- Existing Kerb
- Modified Kerb
- Existing Controlled Crossing
- Proposed Toucan Crossing
- Traffic Island
- Trees
- Trees to be removed
- Trees to be planted

Reference drawings

P1	04/12/2015	TT	Preliminary Design	TG	RH
Rev	Date	Drawn	Description	Ch'kd	App'd

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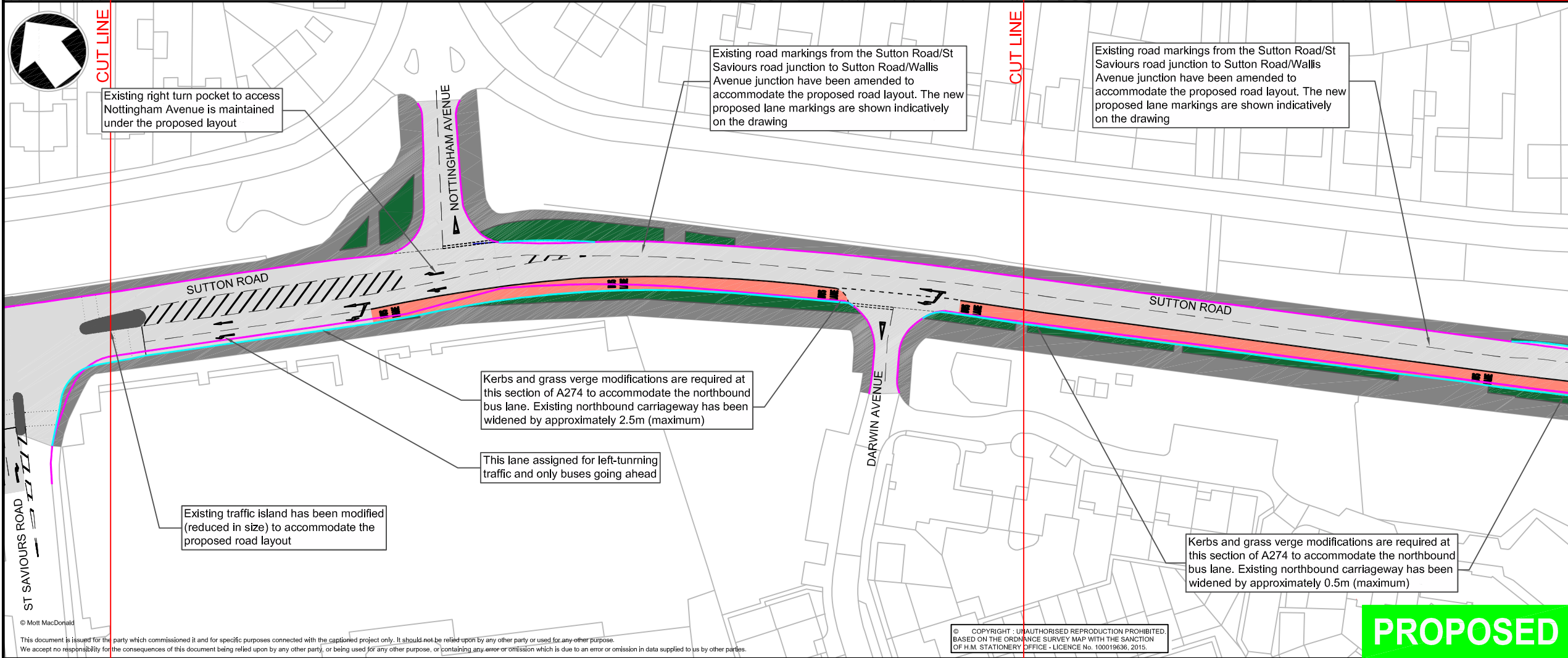
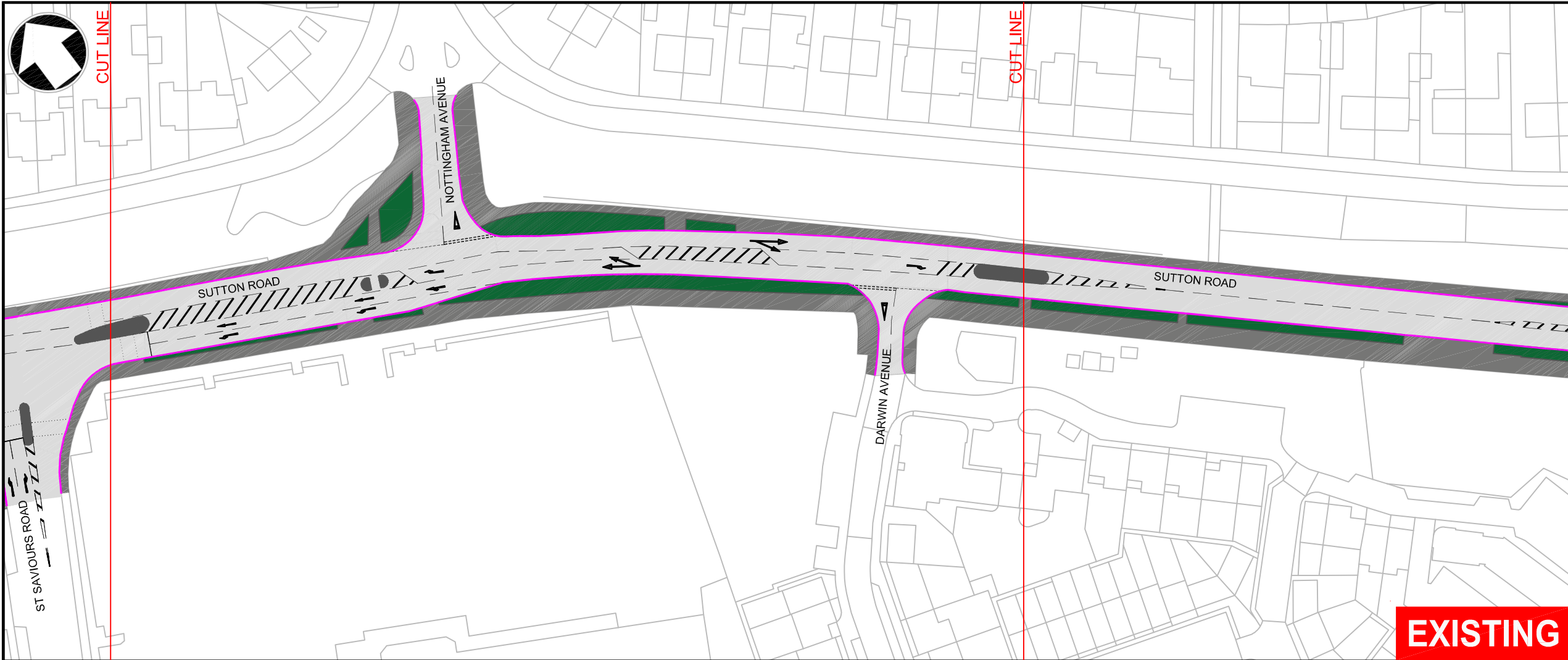
Title

Bus Corridor Proposals  
Sutton Road from  
Queen Elizabeth Square  
to St Saviours Road

Designed	TT	Eng check	TG
Drawn	TT	Coordination	TG
Dwg check	TG	Approved	RH
Scale at A1	Status	Rev	P1

Drawing Number

MMD-359471-L-DR-00-XX-014



Notes

1. Existing and Proposed line markings are shown indicatively

Key to symbols

- Carriageway
- Footway
- Verge
- Lane Markings
- Proposed Bus Lane
- Pre-Signal Island
- Existing Kerb
- Modified Kerb
- Traffic Island
- Trees
- Trees to be removed
- Trees to be planted

Reference drawings

P1	04/12/2015	TT	Preliminary Design	TG	RH
Rev	Date	Drawn	Description	Ch'k'd	App'd

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Client

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Borough Council

Title

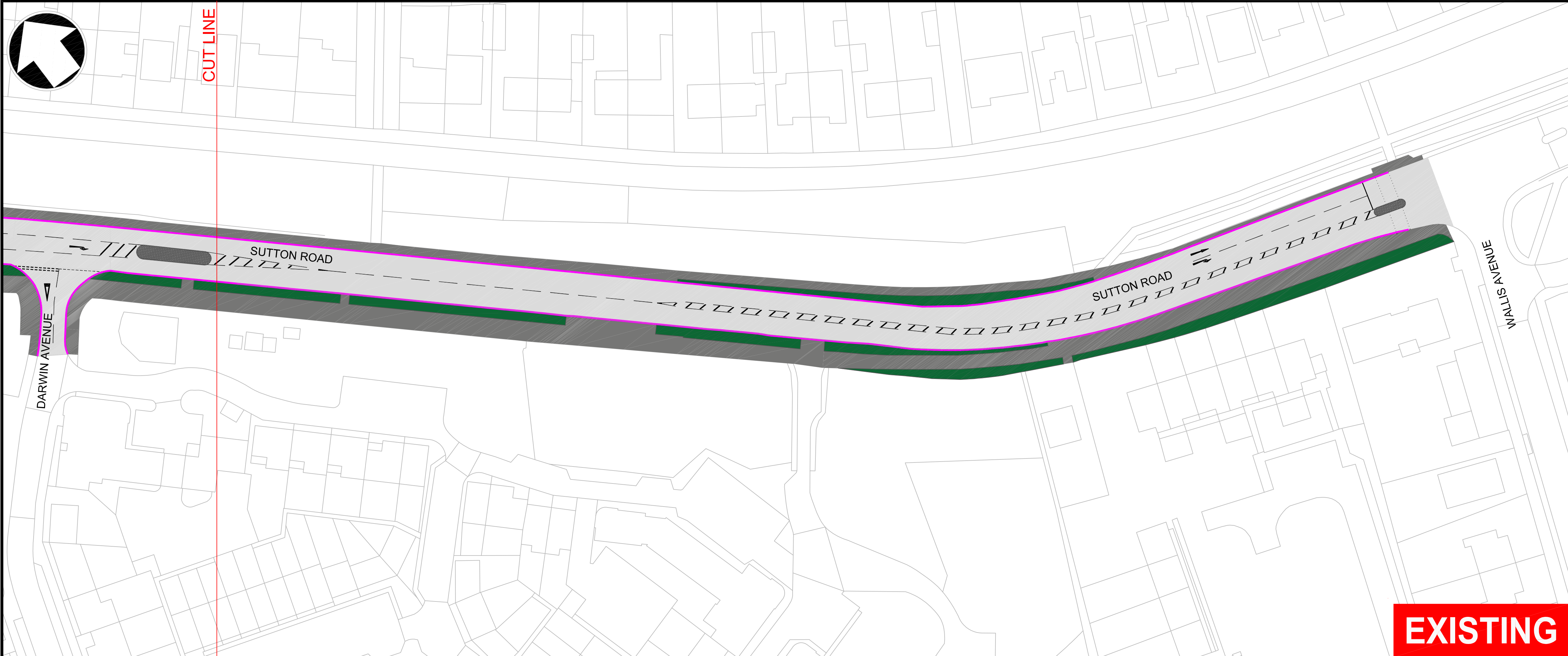
Bus Corridor Proposals  
Sutton Road from St Saviours Road  
to Darwin Avenue

Designed	TT	Eng check	TG
Drawn	TT	Coordination	TG
Dwg check	TG	Approved	RH
Scale at A1	Status	Rev	P1

Drawing Number

MMD-359471-L-DR-00-XX-015





Notes

1. Existing and Proposed line markings are shown indicatively

Key to symbols

Carriageway

Footway

Verge

Lane Markings

Proposed Bus Lane

Pre-Signal Island

Existing Kerb

Modified Kerb

Traffic Island

Trees

Trees to be removed

Trees to be planted

Reference drawings

P2	20/04/2016	KS	Second Issue	TG	TG
P1	04/12/2015	TT	Preliminary Design	TG	RH
Rev	Date	Drawn	Description	Ch'k'd	App'd

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Client

MAIDSTONE

Borough Council

Title

Bus Corridor Proposals  
Sutton Road from Darwin Avenue  
to Wallis Avenue

Designed	TT		Eng check	TG	
Drawn	TT		Coordination	TG	
Dwg check	TG		Approved	RH	
Scale at A1	1:500	Status		Rev	P2

Drawing Number

MMD-359471-L-DR-00-XX-016

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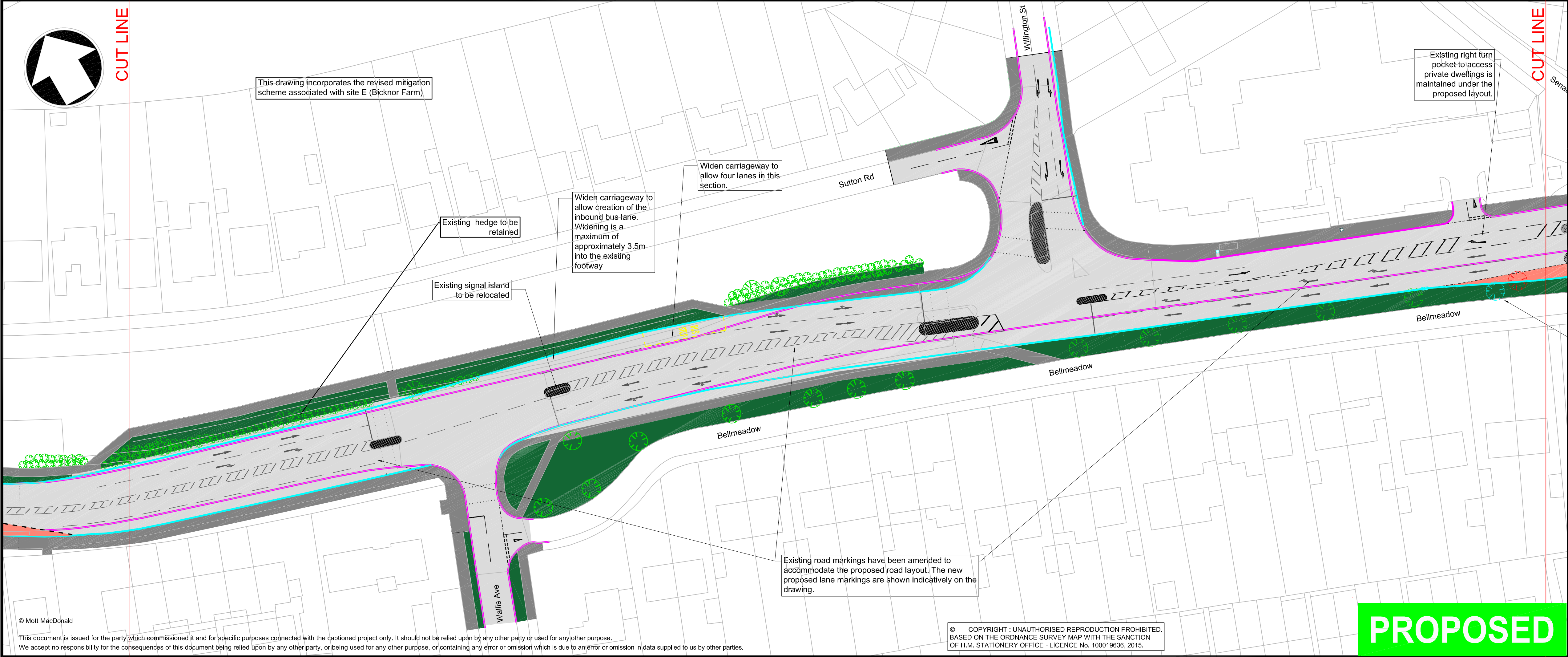
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1:500

PROPOSED

MMD-359471-L-DR-00-XX-016





Notes

1. Existing and Proposed line markings are shown indicatively

Key to symbols

	Carriageway
	Footway
	Verge
	Lane Markings
	Proposed Bus Lane
	Pre-Signal Island
	Existing Kerb
	Modified Kerb
	Traffic Island
	Trees
	Trees to be removed
	Trees to be planted

Reference drawings

P2	20/04/2016	KS	Second Issue	TG	TG
P1	04/12/2015	ACB	Preliminary Design	TG	RH
Rev	Date	Drawn	Description	Ch'k'd	App'd

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Client

MAIDSTONE  
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Title

Sutton Road Alignment Proposals  
Sutton Road from Wallis Ave to  
Gore Court Road  
Option 1 of 2  
Sheet 1 of 2

Designed	ACB	Eng check	TG
Drawn	ACB	Coordination	TG
Dwg check	TG	Approved	RH
Scale at A1	1:500	Status	Draft
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Notes

1. Existing and Proposed line markings are shown indicatively

Key to symbols

Carriageway

Footway

Verge

Lane Markings

Proposed Bus Lane

Pre-Signal Island

Existing Kerb

Modified Kerb

Traffic Island

Trees

Trees to be removed

Trees to be planted

Reference drawings

P1	04/12/2015	ACB	Preliminary Design	TG	RH
Rev	Date	Drawn	Description	Ch'k'd	App'd

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MAIDSTONE  
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Title

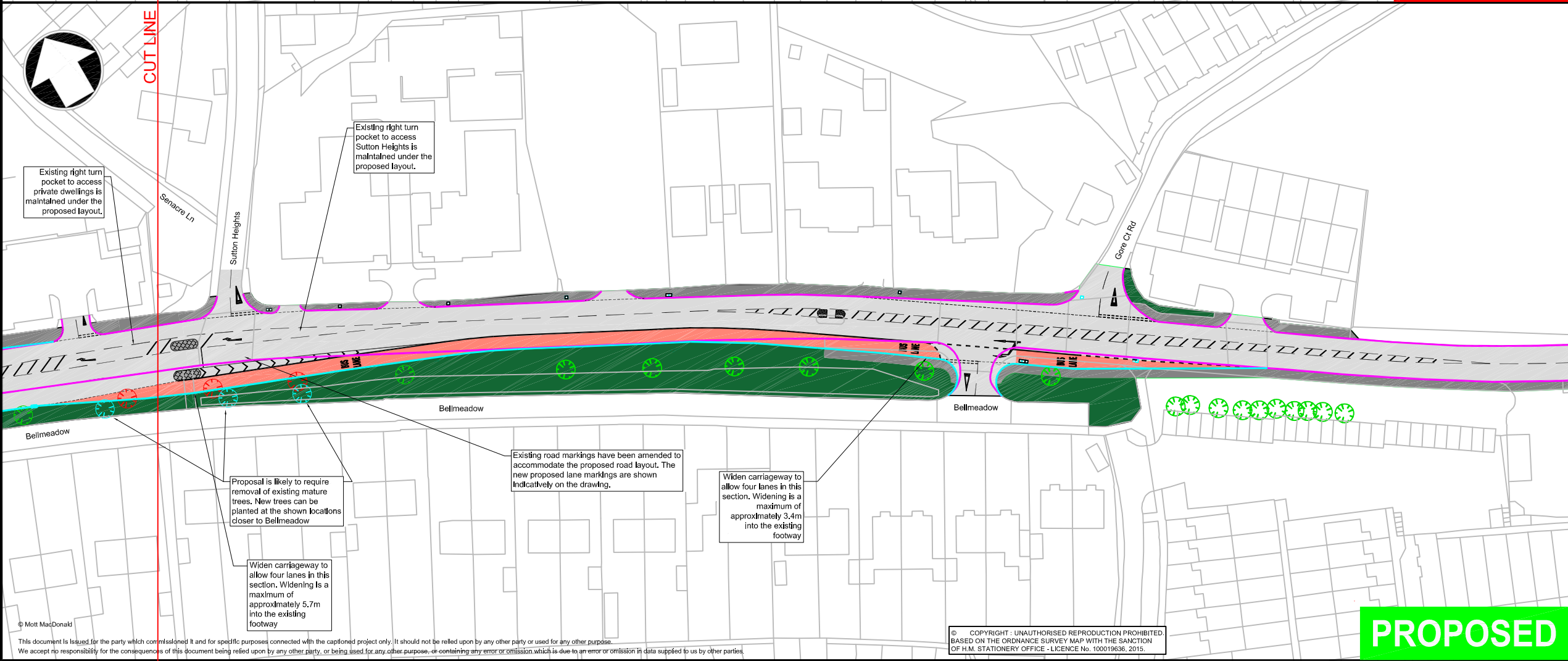
Sutton Road Alignment Proposals  
Sutton Road from Wallis Ave to  
Gore Court Road  
Option 1 of 2  
Sheet 2 of 2

Designed	ACB	Eng check	TG
Drawn	ACB	Coordination	TG
Dwg check	TG	Approved	RH
Scale at A1	Status	Rev	P1

1:500DraftP1

Drawing Number

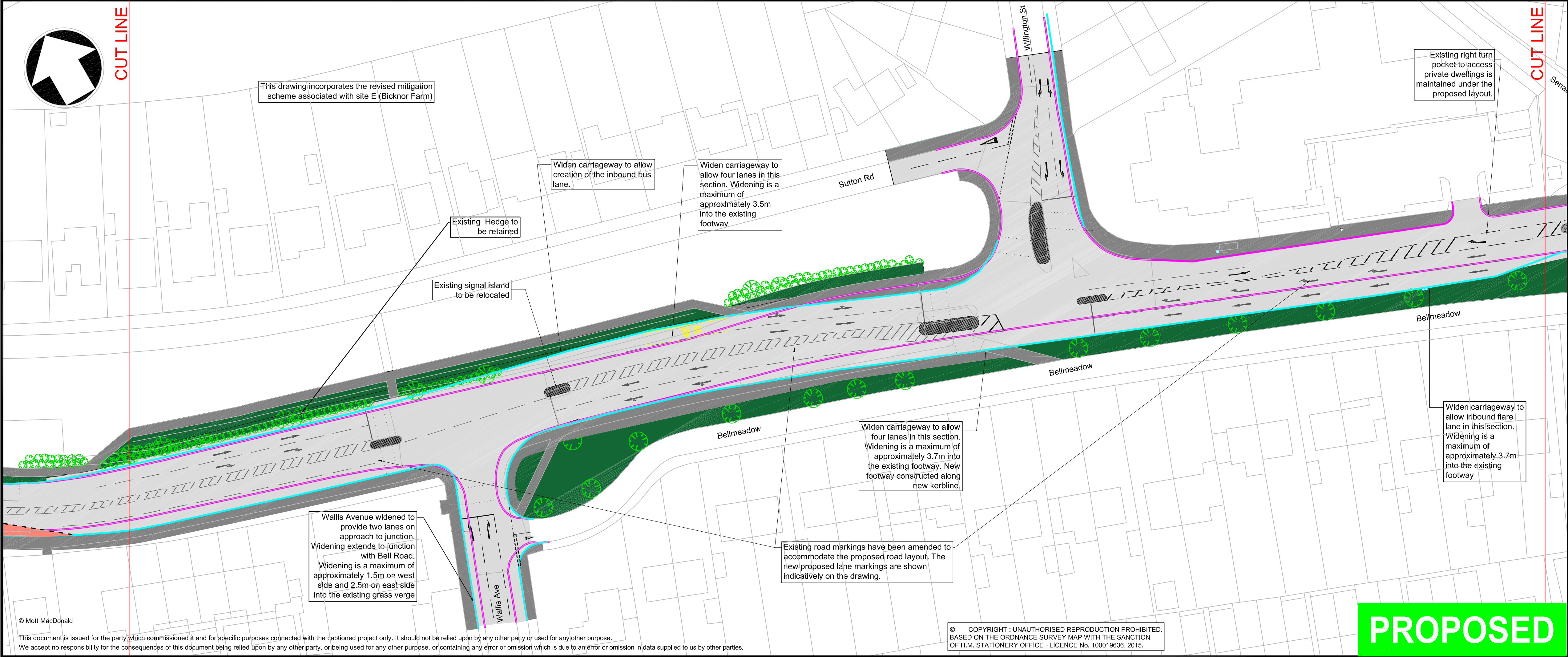
MMD-359471-L-DR-00-XX-018







**EXISTING**



**PROPOSED**

Notes

1. Existing and Proposed line markings are shown indicatively

Key to symbols

	Carriageway
	Footway
	Verge
	Lane Markings
	Proposed Bus Lane
	Pre-Signal Island
	Existing Kerb
	Modified Kerb
	Traffic Island
	Trees
	Trees to be removed
	Trees to be planted

Reference drawings

P2	20/04/2016	KS	Second Issue	TG	TG
P1	04/12/2015	ACB	Preliminary Design	TG	RH
Rev	Date	Drawn	Description	Ch'k'd	App'd

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Client

MAIDSTONE  
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Title

Sutton Road Alignment Proposals  
Sutton Road from Wallis Ave to  
Grove Court Road  
Option 2 of 2  
Sheet 1 of 2

Designed	ACB		Eng check	TG	
Drawn	ACB		Coordination	TG	
Dwg check	TG		Approved	RH	
Scale at A1	1:500	Status	Draft	Rev	P2

Drawing Number

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Notes

1. Existing and Proposed line markings are shown indicatively

Key to symbols

Carriageway

Footway

Verge

Lane Markings

Proposed Bus Lane

Pre-Signal Island

Existing Kerb

Modified Kerb

Traffic Island

Trees

Trees to be removed

Trees to be planted

Reference drawings

P1	04/12/2015	ACB	Preliminary Design	TG	RH
Rev	Date	Drawn	Description	Ch'k'd	App'd

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Client

MAIDSTONE

Borough Council

Title

Sutton Road Alignment Proposals  
Sutton Road from Wallis Ave to  
Grove Court Road  
Option 2 of 2  
Sheet 2 of 2

Designed	ACB	Eng check	TG
Drawn	ACB	Coordination	TG
Dwg check	TG	Approved	RH
Scale at A1	Status	Rev	
1:500	Draft	P1	

Drawing Number

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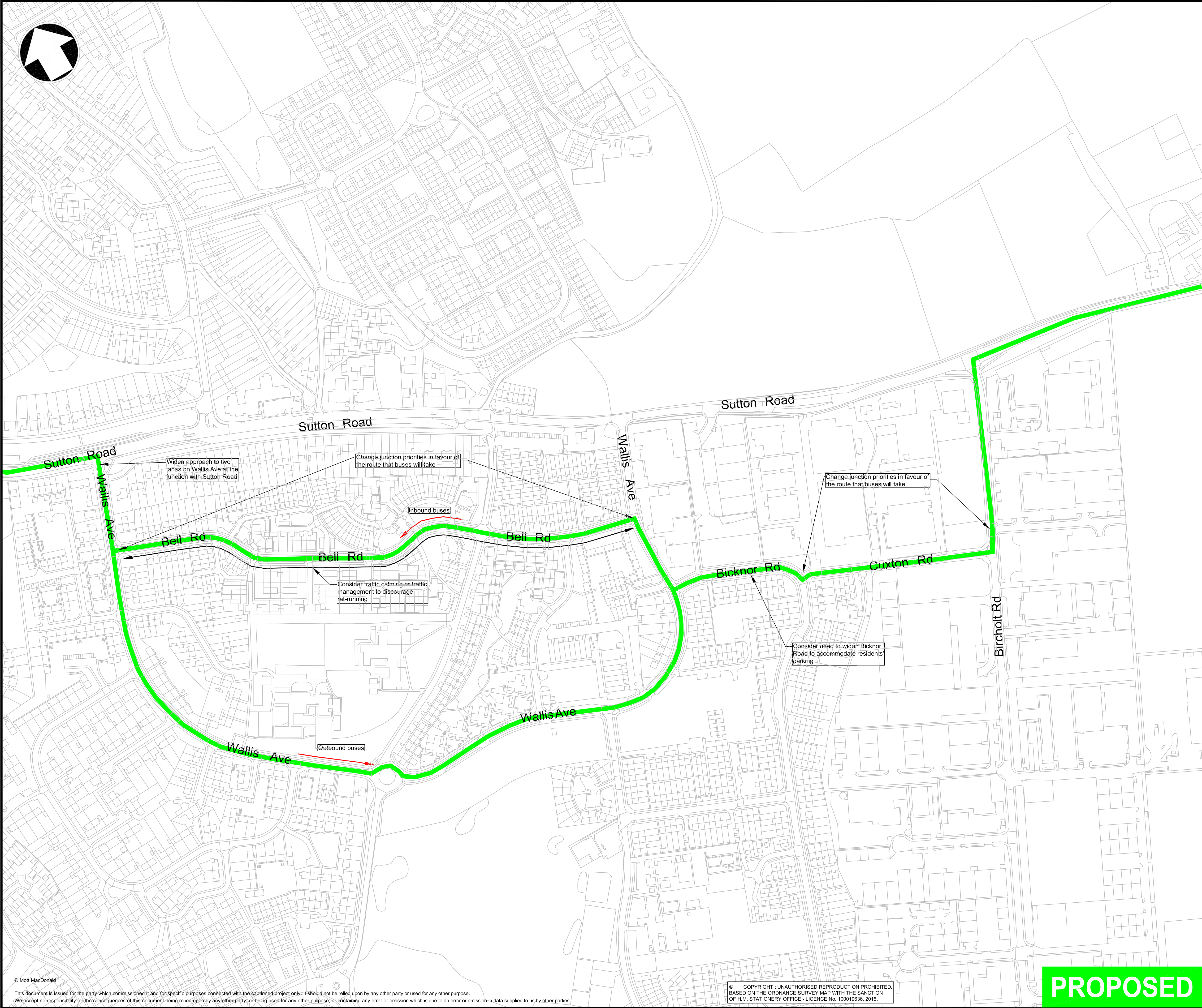
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PROPOSED





- Notes
1. All Dimensions are in Millimetres unless noted otherwise
  2. Existing and Proposed line markings are shown indicatively


Key to symbols

Proposed bus route

Proposed bus direction

Reference drawings

P2	20/04/2016	KS	Second Issue	TG	TG
P1	04/12/2015	ACB	Preliminary Design	TG	RH
Rev	Date	Drawn	Description	Ch'k'd	App'd



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Client



MAIDSTONE  
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Title

Sutton Road Alignment Proposals  
Route of buses through the  
Park Wood estate  
Option 1 of 1  
Sheet 1 of 1

Designed	ACB		Eng check	TG	
Drawn	ACB		Coordination	TG	
Dwg check	TG		Approved	RH	
Scale at A1	1:2000	Status	Draft	Rev	P2

Drawing Number

MMD-359471-L-DR-00-XX-021

PROPOSED