

Chelmsford City Local Highways Panel - Approved Works Programme (March 2016)

Approved Schemes - In Progress

Scheme Key	Completed	Cancelled	Update
------------	-----------	-----------	--------

Ref. No.	Task Name	Parish	Finish	CMA Approved	Cost Code	Scheme Type	Works Description	Allocated Budget	Comments
<b>2013/14 Approved</b>									
1	Parkway A1060 Odeon RAB	Chelmsford non Parished	Aug 2016	10/07/2013	LCHE132022	Traffic Management	Traffic Management Improvements (TMI)	£41,000	Phase 1 - RAB signs/lines March 2016, Phase 2 - Variable Message and Car Park signs August 2016
2	O/s Moulsham Grange, London Road, Chelmsford	Chelmsford non Parished	Feb 2016	04/02/2014	LCHE132071	Traffic Management	Raise kerbing/add bollards/pave area	£12,500	Completed
3	Main Road (at southern Broomfield Parish boundary), Broomfield	Chelmsford non Parished	Mar 2016	18/03/2014	LCHE142001	Traffic Management	Village gateway treatment - design	£5,000	On going liaison with Parish Council over gateway sign design
4	Main Road (at northern Broomfield Parish boundary), Broomfield	Chelmsford non Parished	Mar 2016	18/03/2014	LCHE142002	Traffic Management	Village gateway treatment - design	£5,000	Parish Council have agreed for scheme to be On Hold until any changes to RAB are finalised. Moved back to Potential Schemes List
5	Main Rd nr j/w Church Rd, East Hanningfield	East Hanningfield	Mar 2016	04/02/2014	LCHE132068	Traffic Management	Create walkable verge	£11,500	Following Prioritisation meeting - Suggestion is to complete Design works (£3k) and move implementation (£8.5K) to Potential Schemes List
6	Watchouse Road (Skinners Lane to Pipers Tye), Galleywood	Galleywood	Jun 2016	18/03/2014	LCHE142003	Traffic Management	Speed reduction measures - VAS sign	£10,000	On going liaison with Parish Council on VAS options
7	Margaretting Road, Galleywood	Galleywood	Aug 2016	12/09/2013	LCHE003001	Walking	Continuation of footway from Village to Heritage Centre - Civil Works £88k, Legal/Design Costs £31k. Panel wish to use unspent budget from 2012/13	£124,000	Following Prioritisation meeting - Suggestion is to progress Legal/Design works (£31k) and move implementation (£88k) to Potential Schemes List
8	Five entry point to Galleywood	Galleywood	Dec 2015	04/02/2014	LCHE132016	Traffic Management	Install five Village gateway features	£12,500	Completed
<b>2014/15 Approved</b>									
9	O/s 140-147 Forest Drive Chelmsford	Chelmsford non Parished	Sep 2016	02/06/2014	LCHE142004	Traffic Management	To construct lay-by within available verge	£25,000	Was Mar 2016, scheme slipped due to issues around disabled parking bay and statutory undertakers apparatus. See design in Appendix 1
10	Avon Road, Chelmsford	Chelmsford non Parished	Apr 2016	02/06/2014	LCHE142031	Traffic Management	Parking Improvements along whole length of road (1377m) - measures to prevent parking on verges combined with creation of parking laybys	£228,923	Phase 1 - Grass paver lay-bys, footways and bus stops starting Jan 2016 for nine weeks, Phase 2 - timber bollards/fencing top up £44k agreed January 2016 Panel meeting.
11	Ten Entry points to Chelmsford City	Chelmsford non Parished	Dec 2016	09/07/2014	LCHE142023	Traffic Management	Improved City nameplate signage, to include image of area of interest within City, will require DfT approval	£40,000	
12	Dyers Hall to Cricket Ground, Mashbury Road, Chignal	Chignal	Mar 2016	02/06/2014	LCHE142032	Traffic Management	Creation of three passing places on narrow road	£59,700	
13	Sandon Hill, Ford End 30mph signs	Ford End	Sep 2016	24/04/2014	LCHE142016	Traffic Management	Provision of 30mph count down signs at either end of Village ( will require DfT approval)	£4,000	Awaiting approval from Department of Transport for sign design
14	Sandon Hill, Ford End	Ford End	May 2016	24/04/2014	LCHE142017	Traffic Management	Traffic management improvements through Village - Speed terminal signs at village gateways, VAS's, Improved bend signage, mini-RAB, improved school signage	£58,500	CMA signed to allow mini-RAB
15	A1060 Maldon Road j/w Molrams Lane, Sandon	Sandon	Sep 2016	02/06/2014	LCHE142021	Traffic Management	Remedial works to Section 278 highway works - signing/lining/lighting improvements	£10,000	Scheme is a result of a Road Safety Audit, no other source of funding available to implement resulting works required. Was Mar 2016
16	A132/B1012 (Shaw Farm RAB and B1012/B1418, South Woodham Ferrers	South Woodham Ferrers	May 2016	09/07/2014	LCHE142041	Traffic Management	Improved Goods Vehicle Signage to keep vehicles on Priority Route and not diverting through Woodham Ferrers	£7,500	Following Prioritisation meeting - suggestion to move implementation to Potential Schemes List
17	Chelmer Retail Park, Springfield	Springfield	Jul 2016	24/04/2014	LCHE144006	Cycling	Phase 2 of scheme to rebuild and widen northern access ramp to retail park	£40,000	Following Prioritisation meeting - Suggestion is to progress Legal/Design works at £10k and move implementation at £30k to Potential Schemes List
<b>2015/16 Approved</b>									
20	Priory Road, Bicknacre	Bicknacre	Feb 2016	17/06/2015	LCHE152058	Traffic Management	Bend warning signs	£1,000	Completed
21	Hammonds Road/Church Road, Little Baddow/Boreham	Boreham	Oct 2016	17/06/2015	LCHE152010	Traffic Management	Flood Gauges/Flood Sensors/Verge Marker Posts, Upgraded Signs/Ditch and Vegetation works.	£25,000	
22	Parkway/Moulsham Street Pedestrian Crossing	Chelmsford Non Parished	Mar 2016	22/04/2015	LCHE151010	Safer Roads	Pedestrian Countdown timers for pedestrian crossing - To show Countdown immediately after end of Green Man to show time left before Red Man appears (Was part of reference LCHE151007)	£60,000	Completed
23	Old Moulsham	Chelmsford Non Parished	Oct 2016	22/04/2015	LCHE152057	Traffic Management	20 mph zone/limit - Moulsham Drive/Lady Lane/Hamlet Road/St Johns Road/Vicarage Road/Moulsham Street - (Was reference LCHE132057)	£26,500	
24	Springfield Allied Estate	Chelmsford Non Parished	Aug 2016	22/04/2015	LCHE152069	Traffic Management	Improvements to existing 20 mph signage/roundel road markings - (Sandford Road/Chelmer Road/Springfield Road/Hill Road/Navigation Road) (Was reference LCHE142069)	£3,000	
25	Lawn Lane/Waveney Drive	Chelmsford Non Parished	Mar 2016	22/04/2015	LCHE154001	Cycling	Improved cycle crossing point and continuity of cycle network to Springfield	£5,000	
26	Melbourne Avenue	Chelmsford Non Parished	Aug 2016	22/04/2015	LCHE154007	Cycling	Scheme CH17 - convert southern footway to cycleway/footway (Chignal Road to North Avenue) (Was reference LCHE134006)	£25,000	See Appendix 1 for design, possible top up £41,593 required
27	Princes Road	Chelmsford Non Parished	Aug 2016	22/04/2015	LCHE154009	Cycling	Scheme CH34 - convert and widen footway (opposite Moulsham School to Lidl) (was reference LCHE134009)	£95,000	Phase between Moulsham Junior School to Chelmsford College planned for Summer Holidays 2016. See Appendix 1 for design.
28	County High School, Broomfield Road, Chelmsford	Chelmsford Non Parished	Feb 2016	17/06/2015	LCHE152063	Traffic Management	Pedestrian guard rail outside exit of school	£3,000	Completed

**Chelmsford City Local Highways Panel - Approved Works Programme (March 2016)**

2015/16 Approved (Continued)									
29	Our Lady Immaculate School, New London Road, Chelmsford -	Chelmsford Non Parished	Feb 2016	17/06/2015	LCHE152051	Traffic Management	Pedestrian guard rail and raise kerbs	£7,500	Completed
30	A414 Three Mile Hill j/w A12 junction 15, Chelmsford	Chelmsford Non Parished	Mar 2016	17/06/2015	LCHE151005	Safer Roads	Signage/lighting improvements	£25,000	Completed
31	Melbourne Avenue RAB j/w West Avenue/North Avenue	Chelmsford Non Parished	Feb 2016	17/06/2015	LCHE156001	School Crossing Patrol	Pedestrian guard rail at raised pavement and tactile paving	£11,500	Completed
32	Kings Road Primary School, Kings Road, Chelmsford	Chelmsford Non Parished	Feb 2016	17/06/2015	LCHE156002	School Crossing Patrol	Dropped kerbs and tactile paving for school crossing patrol	£8,000	Completed
33	Beehive Lane nr Honeydots, Chelmsford	Chelmsford Non Parished	Feb 2016	17/06/2015	LCHE156004	School Crossing Patrol	Dropped kerbs and tactile paving to allow school crossing patrol top relocate.	£3,500	Following initial design works scheme not feasible due to existing driveway dropped kerbs.
34	Penny Royal Road	Danbury	Aug 2016	22/04/2015	LCHE153002	Walking	Footway to link two parts of Danbury - Penny Royal Road (Mayes Lane to Woodhill Road) (Was reference LCHE143001)	£66,000	Following Prioritisation meeting - Suggestion is to complete Design works £3k and move implementation £63k to Potential Schemes List
35	A414 Main Road near Griffin Public House, Danbury	Danbury	Jan 2016	17/06/2015	LCHE151006	Safer Roads	Signing and Lining works	£7,400	Completed
36	B1008 Chelmsford Road Ford End to Barnston	Ford End	Feb 2016	17/06/2015	LCHE151008	Safer Roads	Improvements to bend ahead warning signs and investigate carriageway widening - Ford End to Barnston (Was reference LCHE141005)	£33,000	
37	Paper Mill Bridge, North Hill/Moden Hall Lane, Little Baddow	Little Baddow	Oct 2016	17/06/2015	LCHE152003	Traffic Management	Flood Gauges/Flood Sensors/Verge Marker Posts, Upgraded Signs/Ditch and Vegetation works.	£25,000	
38	PRoW Footpath 33, Downham Road, South Hanningfield	South Hanningfield	Mar 2016	17/06/2015	LCHE158009	Public right of Way	Surface improvements - laying road planings - 270m length with a width 1.0m to 1.5 m	£5,000	PRoW works weather dependent
39	A132 Burnham Road	South Woodham Ferrers	Jan 2017	22/04/2015	LCHE152079	Traffic Management	Extension of 40 mph speed limit, reposition Town nameplate, SLOW road markings (Was reference LCHE142079)	£10,000	Traffic regulation order being progressed
40	Buttsbury Bridge, Stock	Stock	Sep 2016	17/06/2015	LCHE152080	Traffic Management	Traffic Management Improvements at bridge	£17,700	Was Apr 2015, see design in Appendix 1
2015/16 Revenue Schemes									
41	Survey Works	Various TBC	TBC	22/04/2015	LCHE152007	Traffic Management	Ad Hoc Survey Works - Automatic Traffic Counts/Degree of Pedestrian Conflict Surveys/Road Safety Assessments	£10,000	To date twenty-eight ATC's and three PV <sup>2</sup> surveys have been carried out - total cost £9,700.

Chelmsford City Local Highways Panel - Approved Works Programme (March 2016)

Approved Schemes - Designs & Feasibility Studies

Scheme Key	Completed	Cancelled	Update
------------	-----------	-----------	--------

Ref. No.	Task Name	Parish	Finish	CMA Approved	Cost Code	Scheme Type	Works Description	Allocated Budget	Comments
<b>2013/14 Approved</b>									
1	Melbourne Avenue, Chelmsford	Chelmsford non Parished	Mar 2016	12/09/2013	LCHE134006	Cycling	CH17 - Design only of cycling scheme (£25k)	£3,000	See Appendix 1 for design
<b>2014/15 Approved</b>									
2	PROW Ftp 95 Chelmsford	Chelmsford non Parished	Mar 2016	24/04/2014	LCHE148002	Public right of way	Investigation into installing drainage in existing surfaced city centre footpath	£5,000	
3	High Street	Chelmsford non Parished	Mar 2016	18/11/2014	LCHE144011	Cycling	Feasibility study to consider a cycle route through Chelmsford on a south - north alignment but avoiding the High Street.	£5,000	Meetings held with representative from cycling group to feed into design works
4	PROW Ftp 13 Good Easter	Good Easter	Mar 2016	24/04/2014	LCHE148001	Public right of way	Investigation into revetment between River Can and existing footpath	£5,000	
5	Ongar Rd/Lordship Rd, Writtle	Writtle	Mar 2016	24/04/2014	LCHE142014	Traffic Management	Route enhancement study to consider footway/carriageway surfacing, lining, signing, lighting, also construction of lay-by neat Doctors surgery	£32,500	Phase 1 - Route Enhancement Study Completed, Phase 2 - Layby
<b>2015/16 Approved</b>									
6	Lodge Road	Bicknacre	Mar 2016	22/04/2015	LCHE152025	Traffic Management	Detailed design of passing bays	£3,000	See Appendix 1 for design
7	Plantation Road, Main Road and Church Road, Boreham	Boreham	Mar 2016	17/06/2015	LCHE152022	Traffic Management	Feasibility study into traffic management improvements	£5,000	
8	Waterhouse Lane	Chelmsford Non Parished	Mar 2016	22/04/2015	LCHE152075	Traffic Management	Detailed design of junction improvements at Waterhouse Lane j/w Beeches Drive & Forest Drive (Was reference LCHE142075)	£3,000	
9	Chelmer Park Cycle Route, Beehive Lane	Galleywood	Jan 2016	22/04/2015	LCHE154002	Cycling	Study/Design of cycleway/footway - Between Skinners Lane and Chelmer Car Park	£5,000	See Appendix 1 for Study/Design Options
10	Opposite the Railway Station	South Woodham Ferrers	Apr 2016	22/04/2015	LCHE155013	Bus stop improvement	Design of raised kerbs -Stop ID IM2262b (Was reference 145013)	£5,000	Was Feb 2016, very complex site referred back to partnering consultant
11	Springfield Green/Timson's Lane	Springfield	Mar 2016	22/04/2015	LCHE154004	Cycling	Feasibility study to consider connection of existing cycle routes - Eastern ends of Springfield Green/Timson's Lane	£5,000	Scheme being progressed through partnering consultant
12	Tyrells School - Tavistock Road, Bodmin Road, Taunton Road, Springfield	Springfield	Jun 2016	17/06/2015	LCHE152066	Traffic Management	Feasibility study into 20mph zone/limit	£5,000	At present this study will be completed in financial year 2016/17 - design engineer asked to bring completion date forward

# **Chelmsford City Local Highways Panel**

**March 2016**

## **Appendix 1 – Approved Works Programme Updates**

### **a. Feasibility and Designs**

**Page 2 to 3** – LCHE134006 – Melbourne Avenue, Chelmsford

Design of cycling scheme CH17

**Page 4 to 5** – LCHE152025 – Lodge Road, Bicknacre

Design of passing bays

**Page 6 to 27** - LCHE154002 – Chelmer Cycle Route – Beehive Lane, Galleywood

Feasibility Study and Design options are attached for the information of the Panel.

### **b. Schemes In Progress**

**Page 28** – LCHE142004 – O/s 140-147 Forest Drive, Chelmsford

Design of parking bays in verge

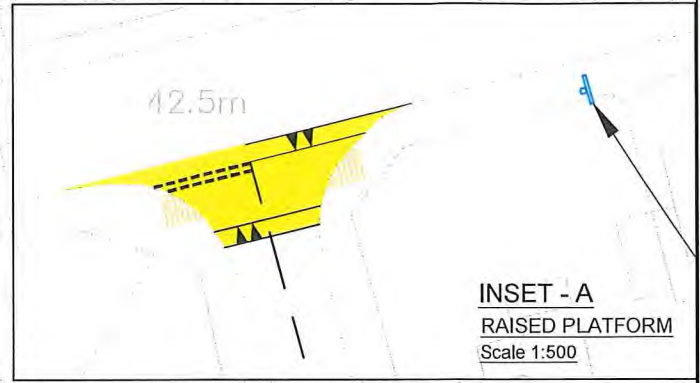
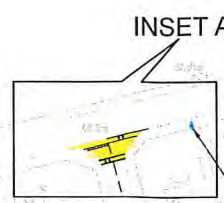
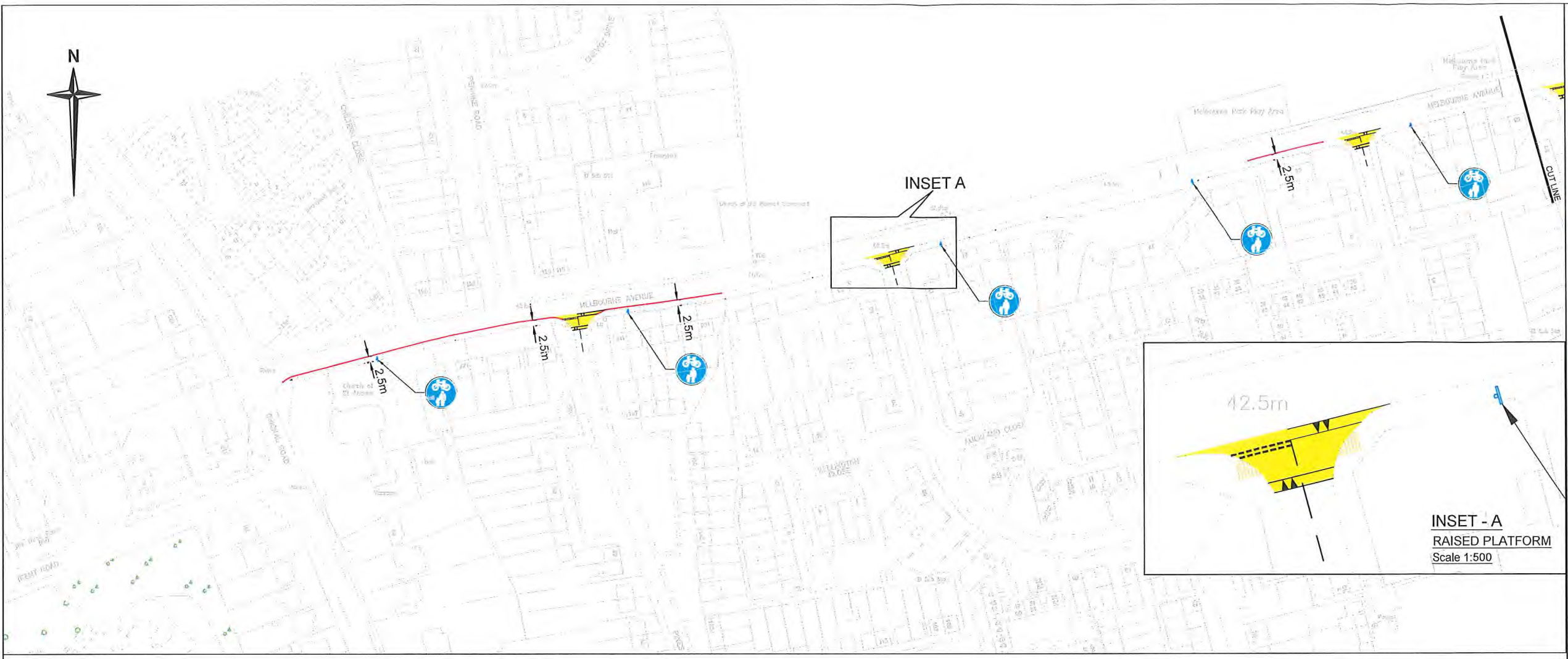
**Page 29** - LCHE154009 – Princes Road, Chelmsford

Design attached for the information of the Panel.

**Page 30 to 31** – LCHE152080 – Buttsbury Bridge, Stock

Design of traffic management improvements at bridge

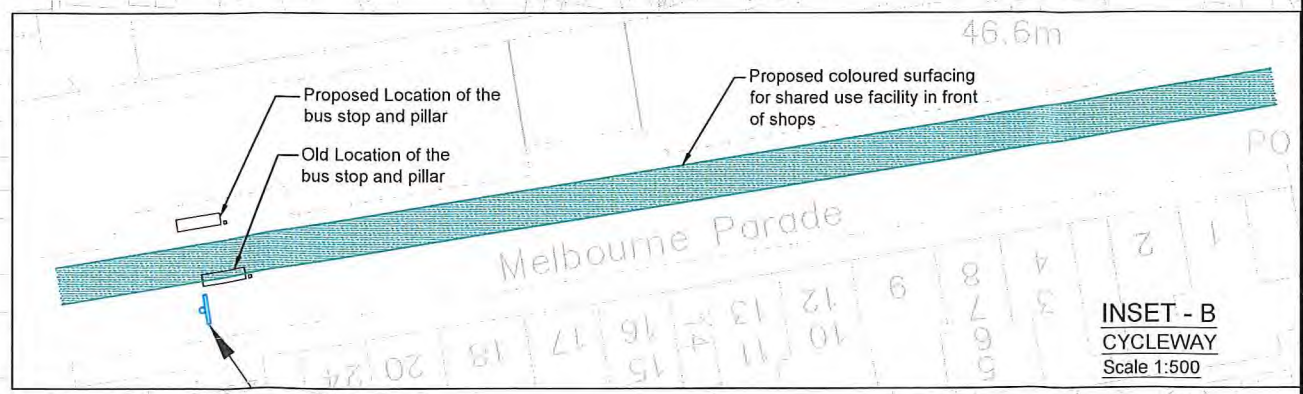
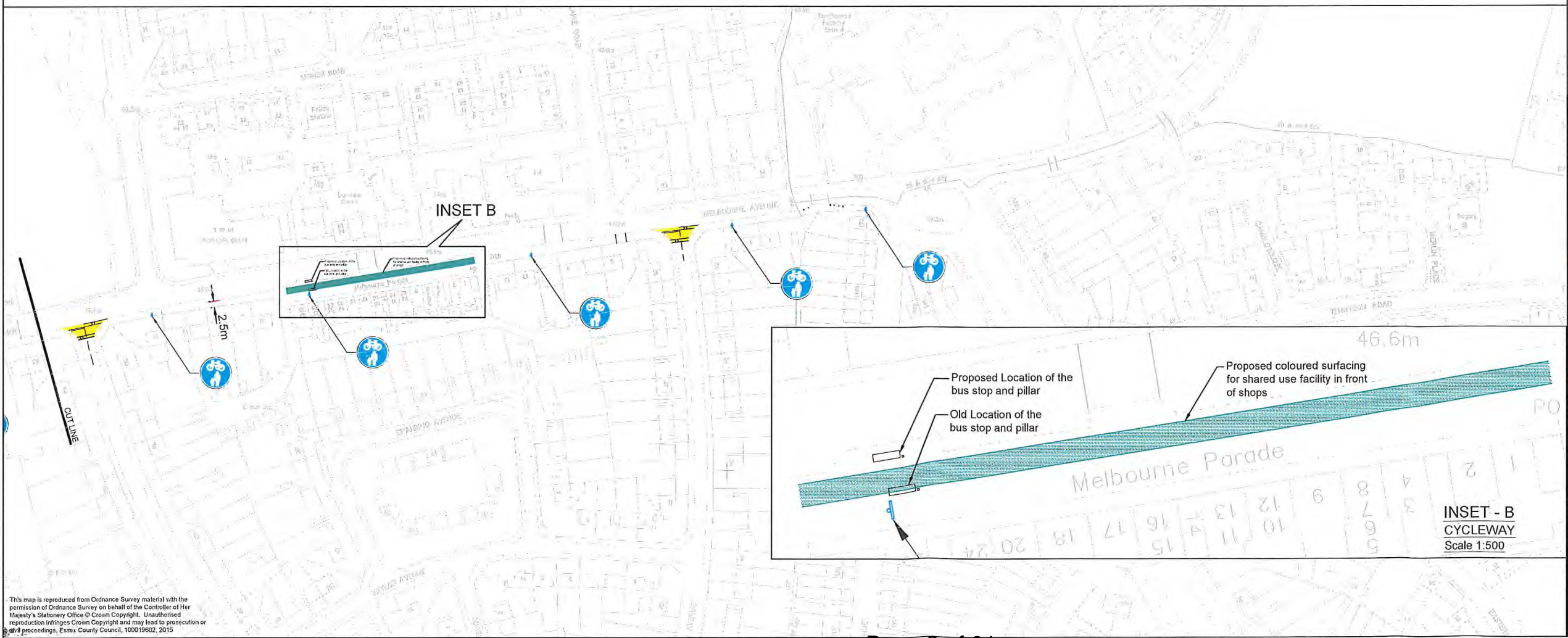




**INSET - A**  
RAISED PLATFORM  
Scale 1:500

- Notes**
- Do not scale.
  - Existing obstructions on the shared use facility will be removed / relocated:  
Bus shelter  
bollards  
signs

- Key**
- Proposed Cycleway Surfacing
  - Proposed Raised Platform
  - Proposed kerb ( Footway Widening )
  - Tactile Paving in Buff colour
  - Proposed road marking
  - Proposed shared cycle / footway facility sign.



**INSET - B**  
CYCLEWAY  
Scale 1:500

Rev.	Date	Description of revision	Drawn	Checked	Reviewed	Approved

**DRAWING STATUS**

**OUTLINE DESIGN**

Mark Rowe, Service Director, Highways  
Seax House, Victoria Road South, Chelmsford, CM1 1QH.  
Tel: 0345 6037631 © Essex County Council

**SCHEME TITLE**

**SHARED USE FOOTWAY  
CYCLEWAY, MELBOURNE AVENUE**

**DRAWING TITLE**

**GENERAL ARRANGEMENT**

DESIGNED	DRAWN	CHECKED	REVIEWED	APPROVED
JS	RK	SR	LC	BS
DATE	DATE	DATE	DATE	DATE
08.01.16	08.01.16	08.01.16	08.01.16	08.01.16

DRAWING UNITS U.S.I.O.		SCALE AT A3 (420x297mm)
DIMENSIONS IN MILLIMETRES		1:2000
LEVELS IN METRES		
DRAWING No.	REV.	
DC-3321-00-001	-	

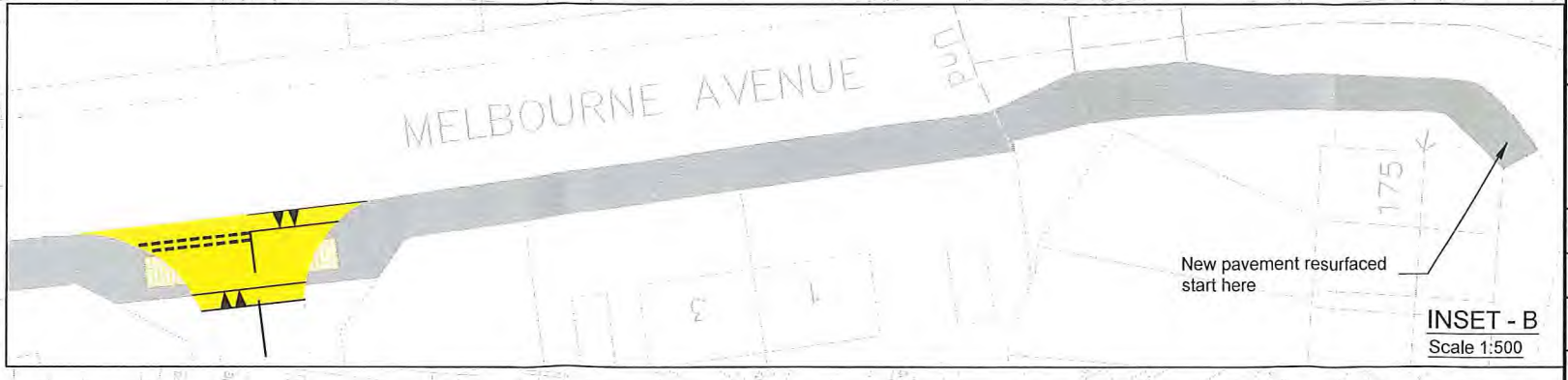
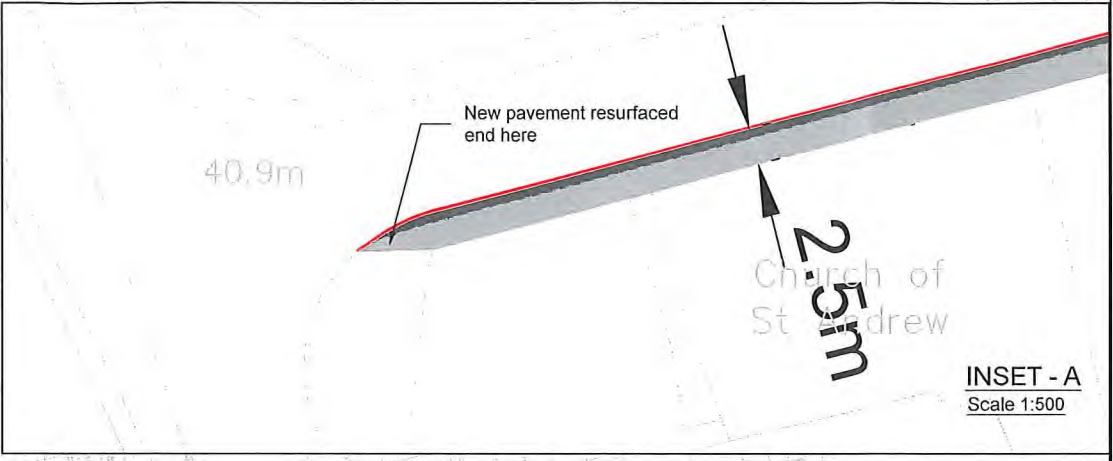
This map is reproduced from Ordnance Survey material with the permission of Ordnance Survey on behalf of the Controller of Her Majesty's Stationery Office © Crown Copyright. Unauthorised reproduction infringes Crown Copyright and may lead to prosecution or civil proceedings, Essex County Council, 100019602, 2015





- Notes**
1. Do not scale.
  2. Pavement resurface will create a level surface and will remove dropped kerbs and uneven areas.

- Key**
- Proposed footway widened
  - Existing footway to be planed off 20mm and re - surfaced
  - Location of local footway widening via new HB2 kerbing



Rev.	Date	Description of revision	Drawn	Checked	Reviewed	Approved

DRAWING STATUS  
**OUTLINE DESIGN**



Mark Rowe, Service Director, Highways  
Seax House, Victoria Road South, Chelmsford, CM1 1QH.  
Tel: 0345 6037631 © Essex County Council

SCHEME TITLE  
**SHARED USE FOOTWAY CYCLEWAY, MELBOURNE AVENUE**

DRAWING TITLE  
**FOOTPATH PAVEMENT RESURFACING**

DESIGNED	DRAWN	CHECKED	REVIEWED	APPROVED
JS	RK	SR	LC	BS
DATE	DATE	DATE	DATE	DATE
08.01.16	08.01.16	08.01.16	08.01.16	08.01.16

DRAWING UNITS U.I.O.  
DIMENSIONS IN MILLIMETRES  
LEVELS IN METRES  
SCALE AT A3 (420x297mm)  
**1:2000**

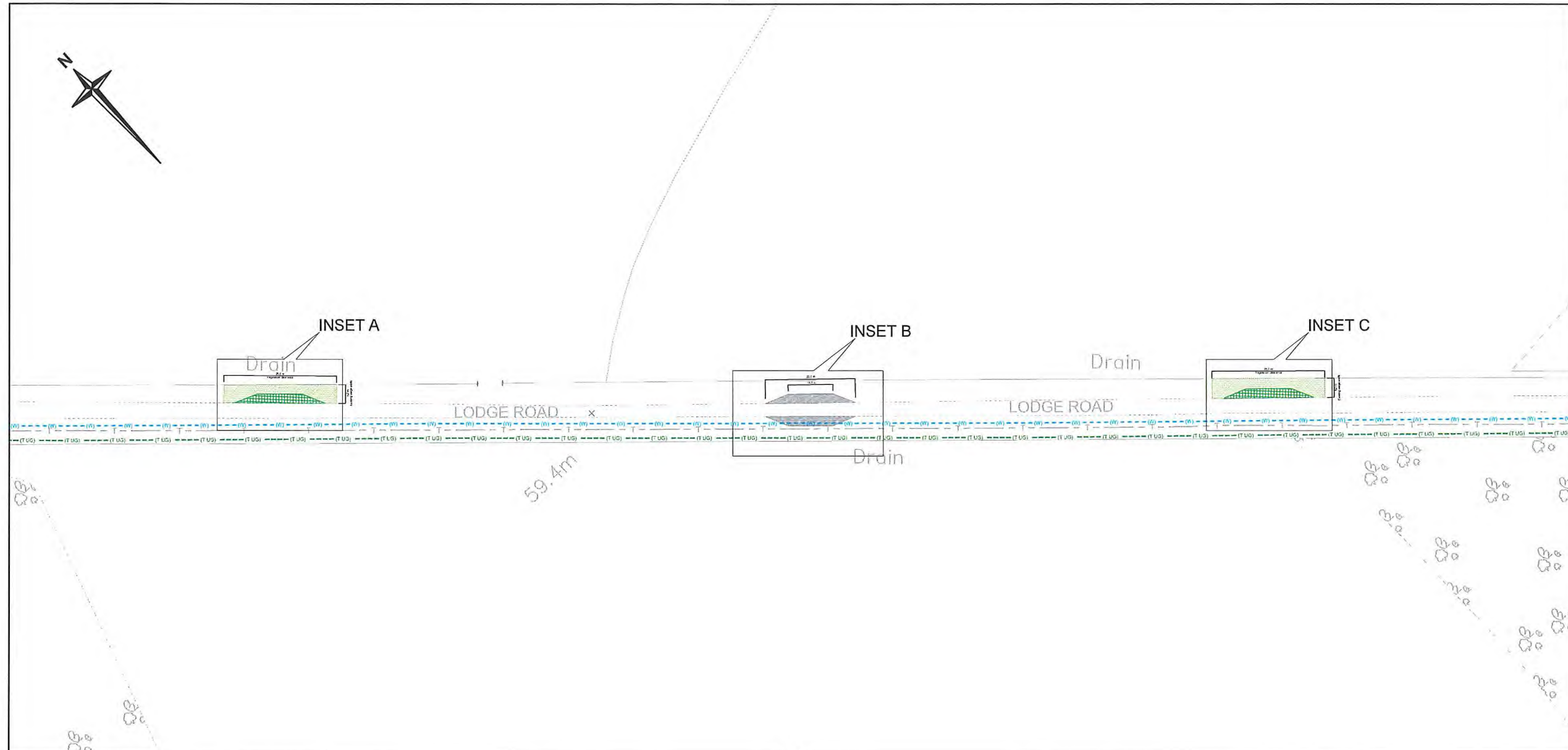
DRAWING No. **DC-3321-11-001** REV. -

This map is reproduced from Ordnance Survey material with the permission of Ordnance Survey on behalf of the Controller of Her Majesty's Stationery Office © Crown Copyright. Unauthorised reproduction infringes Crown Copyright and may lead to prosecution or civil proceedings. Essex County Council, 100019602, 2015









**Notes:**

1. Do not scale.
2. This drawing is to be read in conjunction with all other design drawings and documents.
3. All statutory undertakers apparatus, street furniture, signage and existing carriageway elements to remain as existing unless otherwise shown.
4. The dimensions of bays in Inset A & Inset C are same.
5. Trees to be cut back where required at proposed passing bays

**Key**

- Existing Vegetation to be cleared.
- Excavate existing verge to a depth of 405mm.
- Existing passing bays to be broken up and removed to tip off site (280mm depth)

**Stats Key**

- Existing underground water main supply
- Existing overhead telecom line
- Existing underground BT line

Rev.	Date	Description of revision	Drawn	Checked	Reviewed	Approved

**DRAWING STATUS**  
**DETAILED DESIGN**



Mark Rowe, Service Director, Highways  
 Seax House, Victoria Road South, Chelmsford, CM1 1QH.  
 Tel: 0345 6037631 © Essex County Council

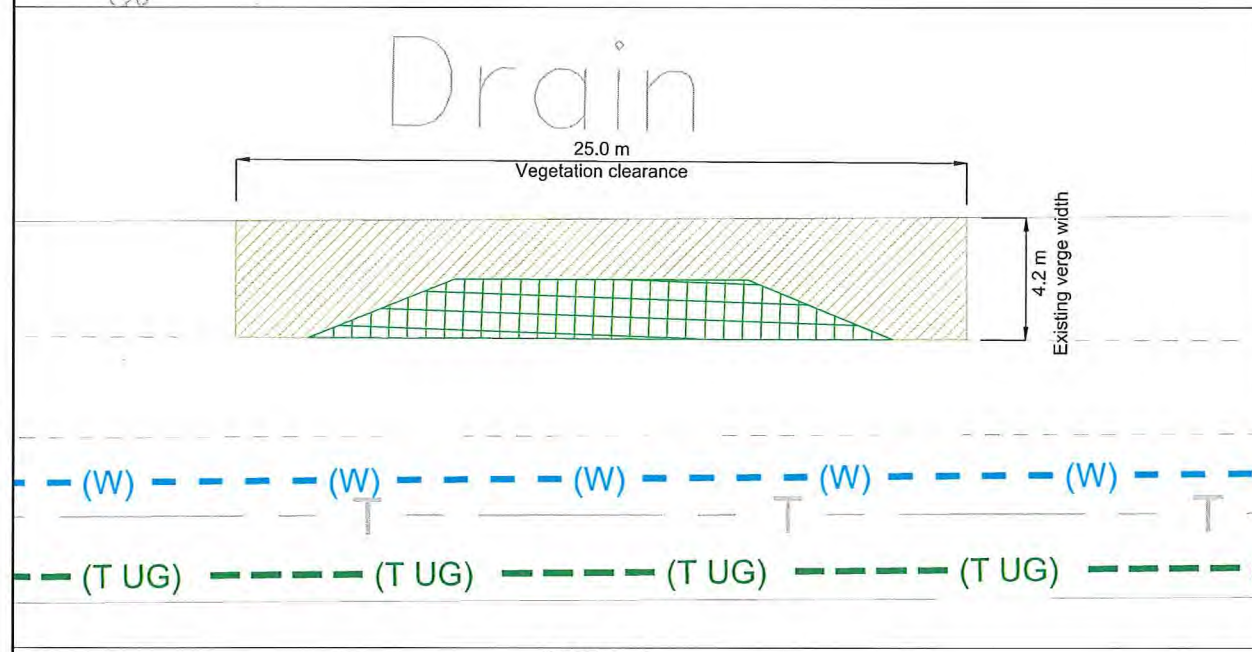
**SCHEME TITLE**  
**PASSING BAYS LODGE ROAD**

**DRAWING TITLE**  
**SITE CLEARANCE**

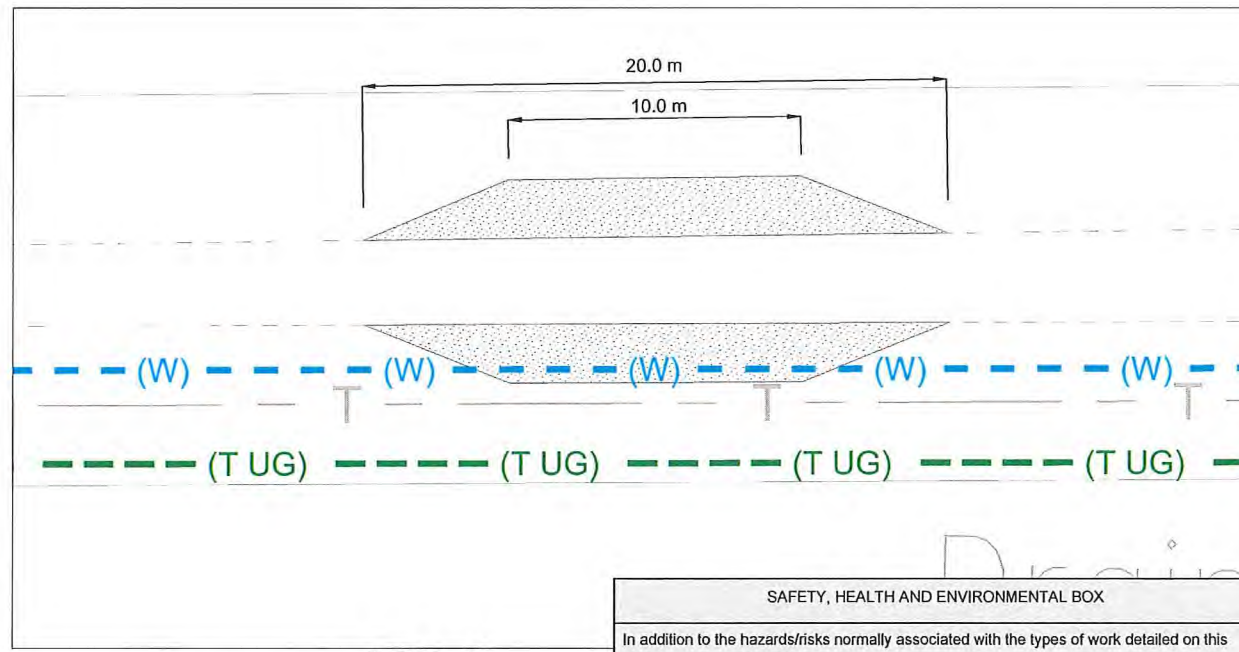
DESIGNED	SM	DRAWN	AG	CHECKED	SR	REVIEWED	LC	APPROVED	BS
DATE	29.01.16	DATE	29.01.16	DATE	29.01.16	DATE	29.01.16	DATE	29.01.16

**DRAWING LIMITS U.N.O.**  
**DIMENSIONS IN MILLIMETRES**  
**LEVELS IN METRES**

**DRAWING No.**  
**DC3403-02-001**



**INSET - A**  
 Scale 1:250



**INSET - B**  
 Scale 1:250

**SAFETY, HEALTH AND ENVIRONMENTAL BOX**

In addition to the hazards/risks normally associated with the types of work detailed on this drawing, note the following:

Hazard Log Ref	DESCRIPTION OF HAZARDS
1.	Demolition/Digging up redundant parts of the highway. Demolition works/digging up of redundant sections of the highway to be carried out adjacent to live traffic. Hazardous materials, e.g. Tar.
2.	Works near overhead telecom apparatus.
3.	Works near underground water main supply.
4.	Works near underground BT apparatus.

This map is reproduced from Ordnance Survey material with the permission of Ordnance Survey on behalf of the Controller of Her Majesty's Stationery Office © Crown Copyright. Unauthorised reproduction infringes Crown Copyright and may lead to prosecution or civil proceedings. Essex County Council, 100019602, 2016



# Beehive Lane, Galleywood

Feasibility Study

Highway Improvements Design Team (SMO2)

March 15, 2016



Date: 15 March 2016  
Author: Liam Nugent (HIDT SMO2)

**Scheme Reference: HI4150**  
**Feasibility Study**  
**Beehive Lane, Galleywood**  
**Chelmsford**



Document Control Sheet

Document prepared by:

Liam Nugent	Highways	<b>T</b>	0845 603 7631
Design Technician	County Hall A2 Annexe	<b>E</b>	liam.nugent@essexhighways.org
	Chelmsford	<b>W</b>	www.essex.gov.uk/highways
	Essex. CM1 1QH		

<b>Report Title</b>	Beehive Lane, Galleywood, Chelmsford – Feasibility Study
<b>Project Number</b>	HI4150
<b>Status</b>	Approved
<b>Revision</b>	-
<b>Control Date</b>	Tuesday, 15 March 2016

Record of Issue

Issue	Status	Author	Date	Check	Date	Authorised	Date
1	Approved	LCN	14MAR16	MBS	14MAR16	<i>LM</i>	<i>15MAR16</i>

Distribution

Organisation	Contact	Number of Copies
ECC	Jon Simmons	One

**Date: 15 March 2016**  
**Author: Liam Nugent (HIDT SMO2)**





## Background to the scheme

The Chelmsford LHP has funded a feasibility study as part of the Chelmsford Cycle Strategy for infrastructure improvements along Beehive Lane, Galleywood, between Slade's Lane and Chelmer Park access.

The SMO2 Highway Improvements Design Team (HIDT) have been commissioned through a design brief to investigate the following:-

- Review scheme validation and historical information.
- Site visit(s) to confirm extent of works and any site issues, site inventory.
- Develop route feasibility study.
- Outline design of shared use footway and arrange RSA1.
- Arrange for budget estimates to be completed for this scheme.
- Prepare final report for presentation to LHP
- Subject to the approval of the LHP scheme to implemented.

Following the release of the Chelmsford Cycle Strategy, it has been identified that there is a missing link within the cycle network in Galleywood.

Cycling is currently unattractive along Beehive Lane, and forms a barrier to cyclists wanting to make journeys from Chelmer Park to the Chelmsford City centre and vice versa.

Providing a link either along the highway boundary or through Chelmer Park from Skinners Lane to the sports ground entrance would assist with the encouragement/support of off road cycling.

Completion of this link would allow for this section of National Cycle Network (NCN13) between Watchouse Road shops and Chelmer Park, Galleywood to be extensively signed.



## Site Characteristics

Beehive Lane, Galleywood is classified as a PR2 in the Essex County Council (ECC) functional route hierarchy. This section of highway is subject to a 40mph speed limit.

Beehive Lane is a main local traffic route linking Galleywood in the north, to Great Baddow in the south, there is currently an existing footway running north east/south west, opposite Chelmer Park, approximately 1.8m in width.

The site was visited on several occasions to obtain data and highway use to assist with design for this scheme. On each site visit it was observed that the area was used by cyclists traveling in both a northern and southern direction, although there was no evidence of cyclists travelling through Chelmer Park.

There are existing bus stops, located along Beehive Lane which are located at the property boundary of numbers 495 and 497 on both eastern and western side. First group Plc. serve these routes, with service numbers 42 and 42A, linking Galleywood, Chelmsford City centre, Great Baddow, Broomfield and Stansted Airport. These bus stops will need to be considered if a route is considered along the highway boundary.

Service covers to statutory undertaker apparatus were observed throughout the length of the proposed footway, these may need to be repositioned as part of the proposed works, and these will require cost estimate (C3/C4) requests from the appropriate statutory undertakers (estimates included).

Overhead electrical cables were observed at the entrance to Chelmer Park and are present throughout the area in question, a GS6 will be required if any construction work is to occur.

Existing carriageway road gullies were also identified and no visible drainage issues were observed at the time of the site visit. Whilst these will not impact upon the cycle route design, some existing gullies were blocked, and will require inspection and relevant action where necessary. If this is not covered by a maintenance visit then provision for this to be addressed may be necessary through this scheme.

Street lighting is currently present, but may need to be redesigned if any scheme goes forward. Advice shall be sort from the Street lighting team at SMO2 Depot, Springfield.

**Date: 15 March 2016**  
**Author: Liam Nugent (HIDT SMO2)**

---

### **Site Characteristics (cont.)**

The middle of the existing hedge line within the western verge is the extents of the public highway. The highway boundary for this scheme is shown in Figure 1 (Appendix B).

There is an existing vehicle access that serves the entrance to Chelmer Park, there are also unofficial pedestrian's access point within the existing hedgerow throughout the study area, and these are shown in Figure 2 (Appendix B).

Within the study area it was observed on site that there are trees located within the grass verge, with a varying lateral clearance from the carriageway. As part of any construction work, some of these trees will need to be removed/trimmed to allow for the installation of this 3m width shared footway, liaison with ECC Arboricultural Consultant will be required.



## Considerations

As a result of the initial site visit and observations made, it has been determined that there are two feasible options in order to create a cycling route along Beehive Lane.

### Option 1

A 3m width shared use footway along the western verge of Beehive Lane, for a length of approximately 320m, from Slades Lane to the entrance of Chelmer Park.

Additionally the eastern side of Beehive Lane has a limited width thus preventing the installation of any new shared use footway.

There is sufficient space to achieve a 3.0m width shared use footway along the western verge of Beehive Lane however, will have some complications that will need to be addressed during the detailed design stage.

See drawing number HI-4150-00-001 APPROVED 151016) for further information.

Information on cycle track widths can be found in the table below;

<b>Type of Cycle Track</b>	<b>Minimum width</b>	<b>Preferred Width</b>
Cycle Track spate from pedestrian path	2m	3m
Shared use unsegregated cycle track/pedestrian path	2.5m	3m
Shared use segregated cycle track/pedestrian path	3.5m Divided into: Cycle track (2m) Pedestrian path (1.5m)	5m Divided into: Cycle track (3m) Pedestrian path (2m)
Note: The above widths are for paths with physical boundaries, add 0.5m for each side that is bound by kerb, wall, vegetation or similar obstruction		

Upon the review of the existing western verge and the proposal for the new shared footway, the following points are identified:

- The western verge shows evidence of pedestrian use due to the poor state of existing verge. As part of the improvement scheme this may be addressed by installing a footway.
- There is no maintenance work scheduled for this area.
- It is recommended that a topographical survey be carried out to establish levels to aid with the works and to ensure drainage is working.
- Street lighting to be approached for advisory information with regards illumination requirements.
- Beehive Lane is a route for both pedestrians and cyclists, so consideration should be made into removing the vegetation on the western verge to help facilitate a shared use footway that meets current standards.
- The access located at the north east end of our study area is currently in use.
- Whilst on site it noted that the visibility in both direction when crossing Beehive Lane at the junction with Skinners Lane is good.
- Consideration should be made into installing a larger concrete edge due to the level difference of the existing verge and the proposed shared use footway.
- Land acquisition shouldn't be required due to the nature of the wide verge, and location of the highway boundary.
- In order to introduce a new shared use footway on the western verge, stats apparatus may be need to be altered as part of any construction work. This may include the height adjustment of existing covers, the relocation of existing telegraph poles and lamp columns to the rear of the proposed footway.
- There are existing bus stops, located along Beehive Lane which are located at the property boundary of numbers 495 and 497 on both eastern and western side. First group Plc. serve these routes, with service numbers 42 and 42A, linking Galleywood, Chelmsford City Centre, Great Baddow, Broomfield and Stansted Airport. Part of this work will include relocating the existing western verge bus stop to the rear of the proposed footway. This will allow for a sufficient width throughout the entire 230m length of the Beehive Lane.



---

## Option 2

A 3m width off road route through Chelmer Park linking Slade's Lane and the Chelmer Park entrance.

This route would run adjacent to the existing hedgerow along Beehive Lane, and would not impact on any sport and leisure facilities.

Upon the review of the proposed off road route through Chelmer Park, the following points are identified:

- There is sufficient space adjacent to the hedgerow in order to create a 3m width permissive route.
- Designer to liaise with Street lighting for advisory information with regards illumination requirements.
- A section of hedgerow will need to be removed to allow access to the permissive route for pedestrian and cyclists.
- In order to introduce this permissive route, extensive vegetation clearance will need to occur, up to a height of 5m, trees may also need to be removed depending on desired route.
- It is possible to construct this permissive route a similar construction to that stated in option 1.
- (See drawing number HI-4150-00-002 APPROVED 151016) for further information.
- Land acquisition **WILL** be required, due to the location of the highway boundary. Advice will need to be sort from ECC legal services, if the scheme is to be commissioned for detailed design.

---

## **Statutory Undertaker Alterations**

Following further investigation from UK Power Networks Ltd. (UKPN) there is a breakdown of the stats alteration that will need to be considered prior to undertaking any design elements for this work.

Based upon a preliminary assessment of the work required to meet these requirements, the following assets may be affected;

LV Poles 51 – 74

The budget estimate for altering the above apparatus to the new position is **£48,000** exclusive of VAT.

The work included in this budget estimate move existing LV poles to the back of the existing grass verge along the entire 320m length, this work will also the reconnection of existing services along this route.

The budget estimate provided does not include the price of providing any new electricity connection, and if required this will need to be included if further design work is to occur.

### Approximate cost

New Supply	£	12,000
Connection (Transfer)	£	8 ,000

### Note\*

A more precise cost estimate shall be obtained upon the approval by Chelmsford LHP.

C4 applications to be made to all statutory undertakers that are affected.

---

## **Cost Estimate**

### Option 1

The estimated cost of delivery of this scheme has been calculated to be **£227,000**, based upon a 3.0m width shared use footway.

A breakdown of the different elements has been included below;

New Footway construction	£	140,000
Stats Apparatus alterations (UK Power Networks Ltd.)	£	48,000
Vegetation alterations	£	6,000
Drainage	£	6,000
Traffic Management	£	5,000
Design Fee/Supervision	£	6,000
Safety Audit (Stage 2 and 3)	£	1,000
Contingencies (10%)	£	15,000
<b>Total</b>	<b>£</b>	<b>227,000</b>

### Note\*

A more precise cost estimate shall be obtained upon the approval by Chelmsford LHP.



Option 2

The estimated cost of delivery of this scheme has been calculated to be **£75,000**, based upon a 3.0m width unbound cycle track.

A breakdown of the different elements has been included below;

Unbound Cycle track construction	£	55,000
Vegetation alterations	£	6,000
Design Fee/Supervision	£	6,000
Safety Audit (Stage 2 and 3)	£	1,000
Contingencies (10%)	£	6,800
Total	£	<b>75,000</b>

**Note\***

A more precise cost estimate shall be obtained upon the approval by Chelmsford LHP.

---

## Executive Summary

In order to address the lack of cycle network to Galleywood (as identified within the Chelmsford Cycle Strategy) it has been determined that a link needs to be created in order to connect Galleywood and Chelmsford City Centre. This route will form part of the National Cycle Network (NCN13) when completed. In order to provide these improvements there are two viable options and these are detailed in the bullet points below;

- Option 1 includes a 3m width shared use footway along the western verge of Beehive Lane, for a length of approximately 320m, from Slades Lane to the entrance of Chelmer Park.
- Option 2 includes a 3m width off road route through Chelmer Park linking Slade's Lane and the Chelmer Park entrance. This route would run adjacent to the existing hedgerow along Beehive Lane, and would not impact on any sport and leisure facilities.

Following the completion of the outline design and feasibility study, Option 2 has been identified as the most achievable route.

If Option 2 is to be commissioned, then there are some areas that will need to be considered. The land in question will need to be acquired through legal services, and should be completed prior to authorising any further design work.

The land in question will need to be purchased or will need to be dedicated by the land owner (Chelmsford City Council). This will ensure the protection of the route as a highway, and allow us to maintain our asset, as a lack of maintenance will have impact upon the life expectancy of the permissive route.

An uncontrolled crossing point will need to be provided within the vicinity of Skinners Lane to allow cycle traffic to access/egress this permissive route.

Option 1 can be considered, although is not recommended due to the cost of statutory undertaker alterations and the number of mature trees and vegetation that will need to be removed prior to any construction work being undertaken.

The estimate cost implications are outlined within this report, and a more precise cost estimate shall be obtained during detailed design upon the approval by Chelmsford LHP.

**Date: 15 March 2016**  
**Author: Liam Nugent (HIDT SMO2)**

Prepared by:	Liam Nugent	Date:	15 March 2016
Approved by:	Mike Shearcroft	Date:	15 March 2016

### **Appendix A – Drawings**

Please refer to drawing numbers found below for further information regarding the outline design.

HI-4150-00-001                      Outline Design – Option 1 General Arrangement

HI-4150-00-002                      Outline Design – Option 2 General Arrangement

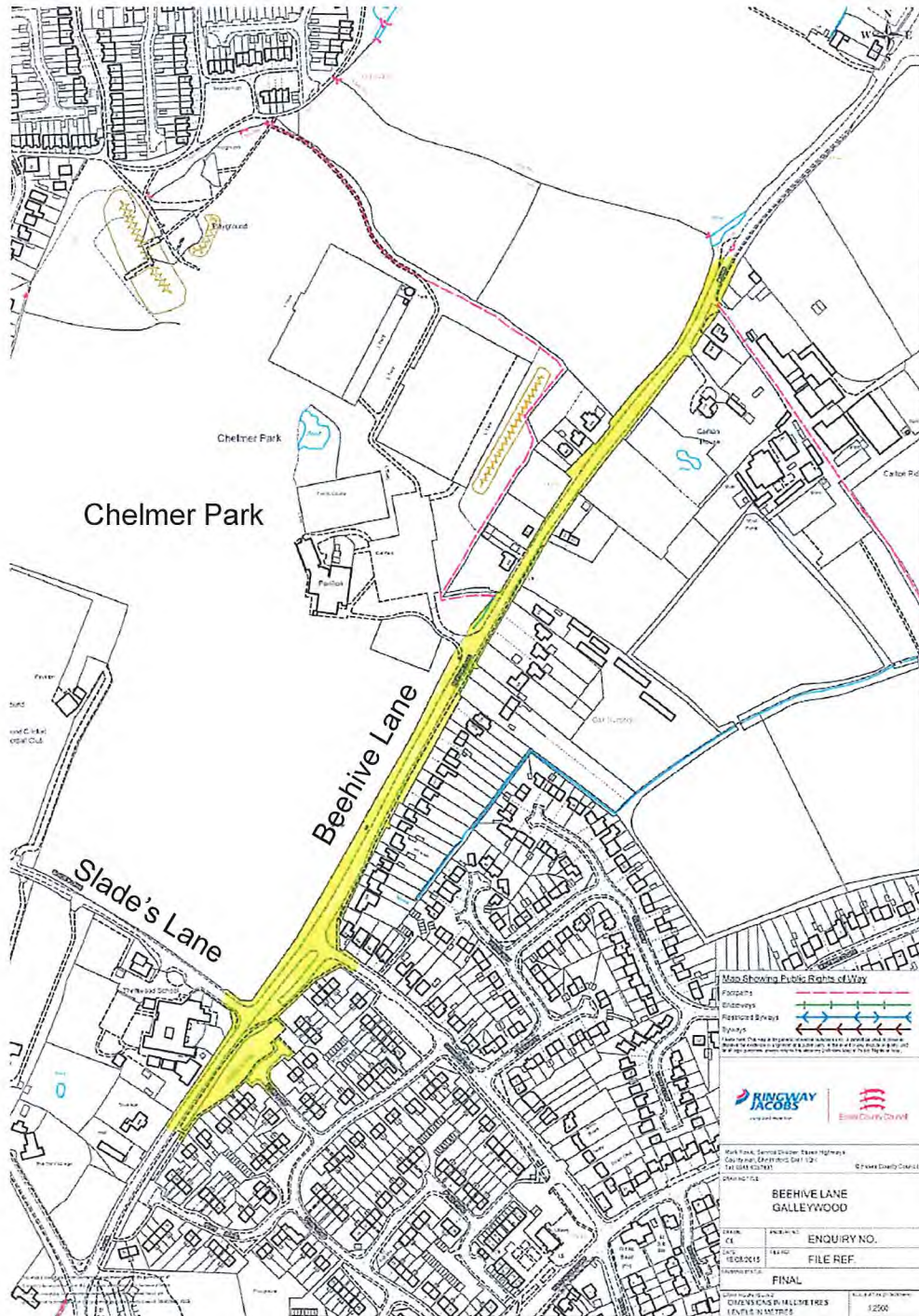
**Date: 15 March 2016**  
**Author: Liam Nugent (HIDT SMO2)**



**Scheme Reference: HI4150  
Feasibility Study  
Beehive Lane, Galleywood  
Chelmsford**

**Appendix B – Photographs**

**Figure 1 – Highway Boundary**



**Date: 15 March 2016  
Author: Liam Nugent (HIDT SMO2)**



Figure 2 – Unofficial pedestrians access points



**Date: 15 March 2016**  
**Author: Liam Nugent (HIDT SMO2)**



**Scheme Reference: HI4150  
Feasibility Study  
Beehive Lane, Galleywood  
Chelmsford**

Beehive Lane, junction with Skinners Lane, looking north east



Beehive Lane, junction with Skinners Lane, looking south west



Beehive Lane, junction with Slades Lane, looking north east



Beehive Lane, looking north east.  
Stats cover will need to be altered to match proposed finished surface level



**Date: 15 March 2016  
Author: Liam Nugent (HIDT SMO2)**



Beehive Lane, looking north east



Beehive Lane signing and the junction with Skinners Lane



Beehive Lane, looking north east



Beehive Lane, looking north east



**Date: 15 March 2016**  
**Author: Liam Nugent (HIDT SMO2)**



**Scheme Reference: HI4150  
Feasibility Study  
Beehive Lane, Galleywood  
Chelmsford**

Beehive Lane, looking north east.  
Stats cover will need to be altered  
to match proposed finished surface  
level



Beehive Lane western verge bus  
stop, looking north east



Beehive Lane, looking north east



Beehive Lane, looking north east



Date: 15 March 2016  
Author: Liam Nugent (HIDT SMO2)



Beehive Lane, looking north east



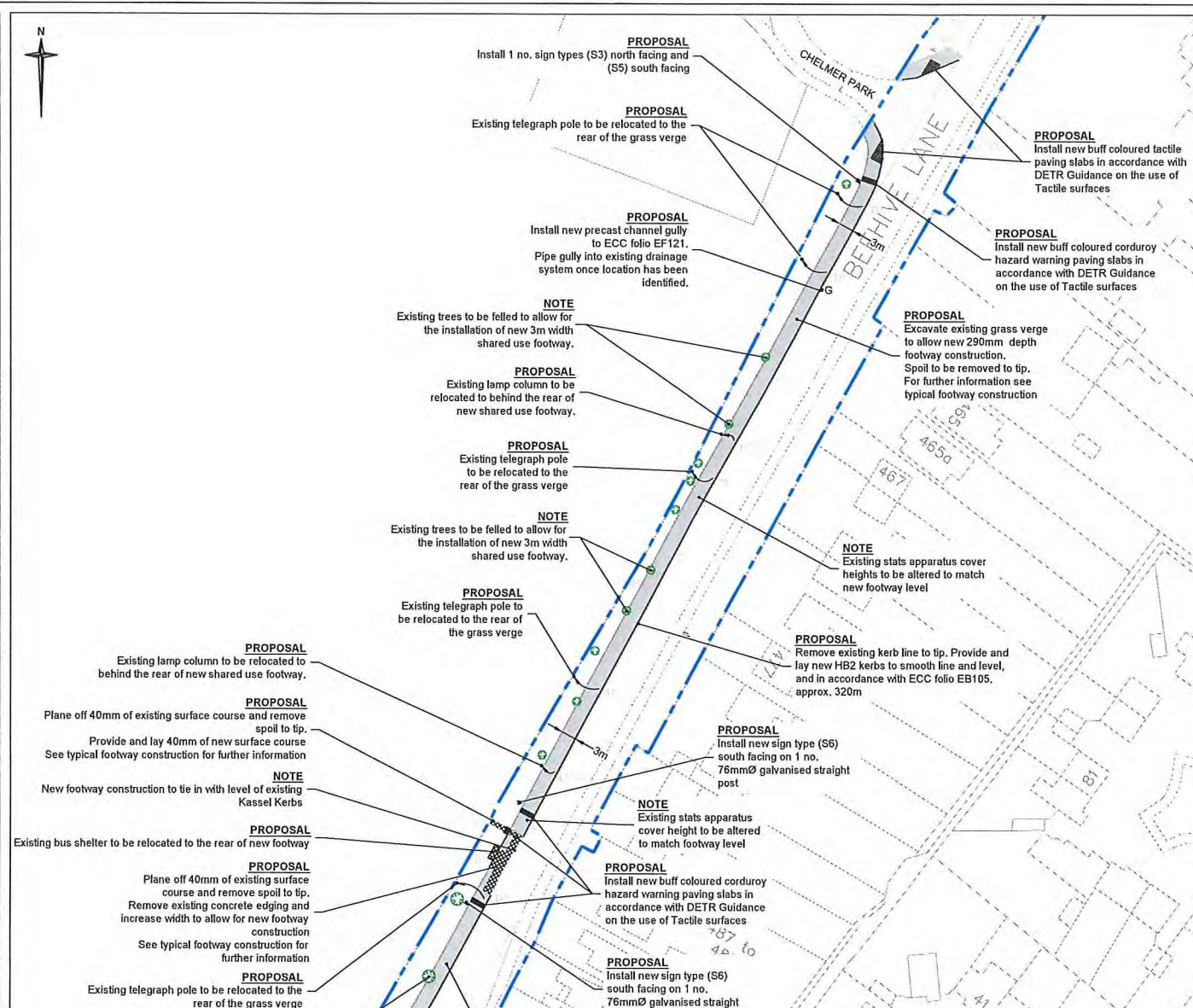
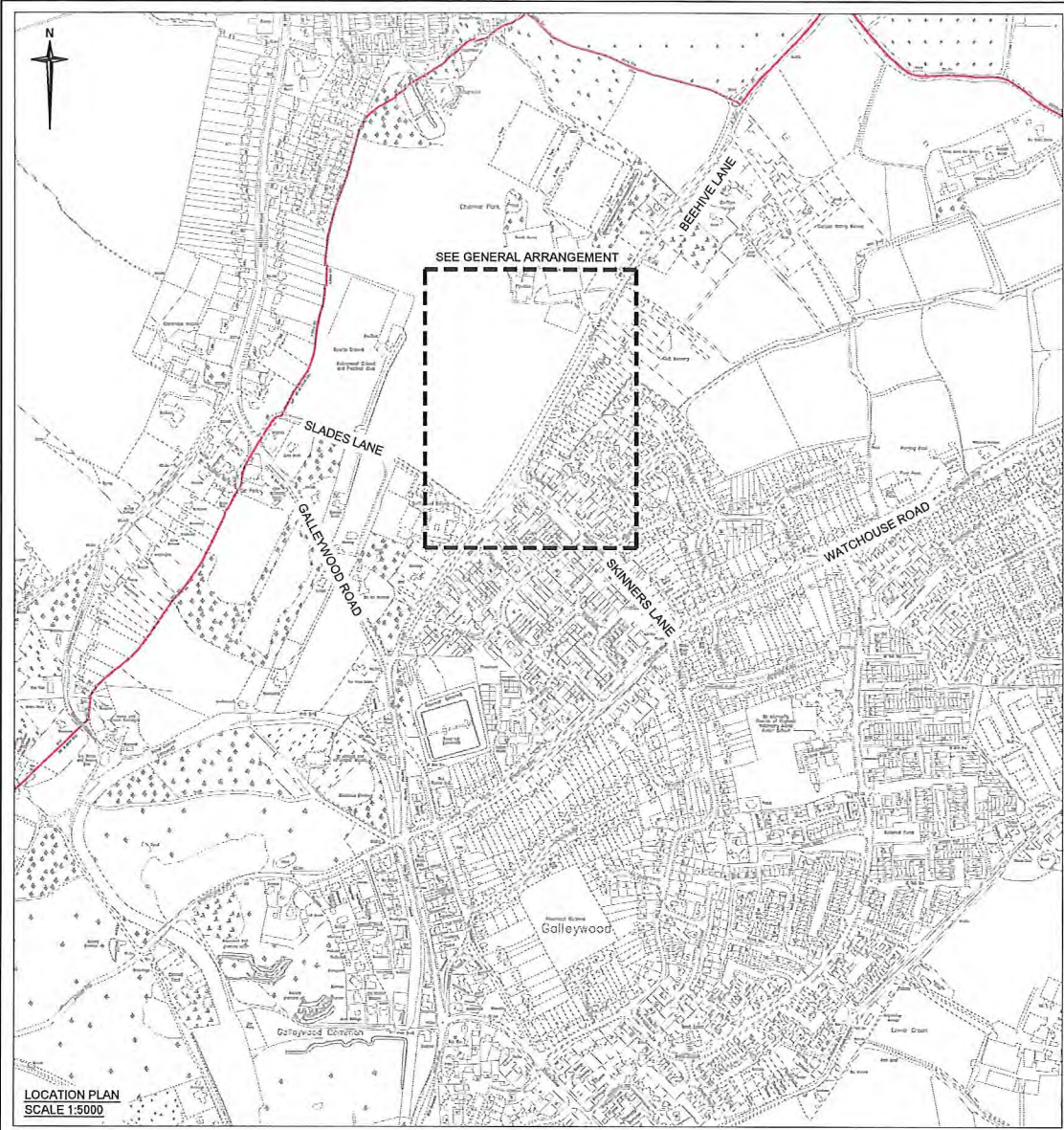
Beehive Lane, looking north east



Beehive Lane, junction with Chelmer  
Park entrance looking north east







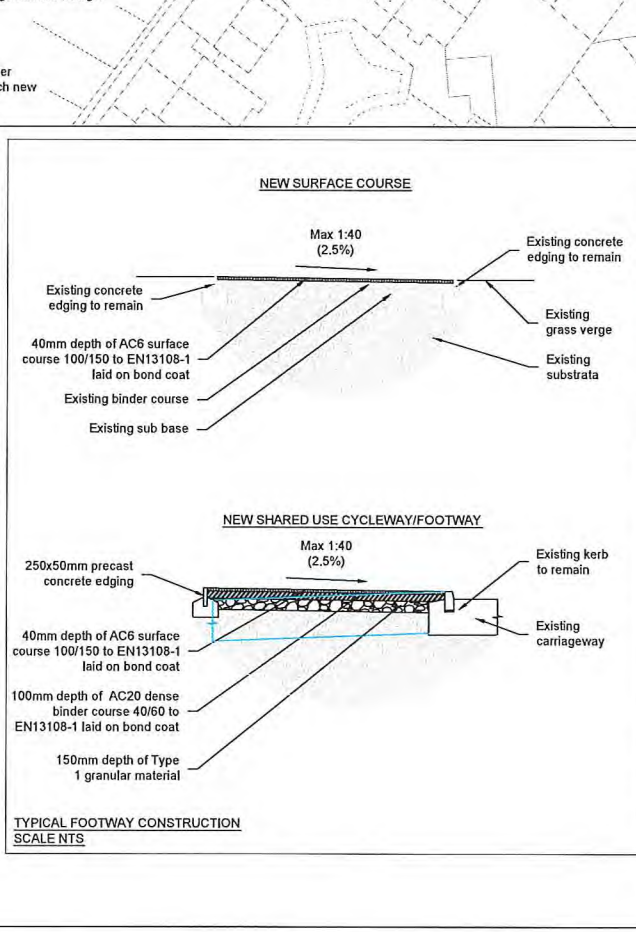
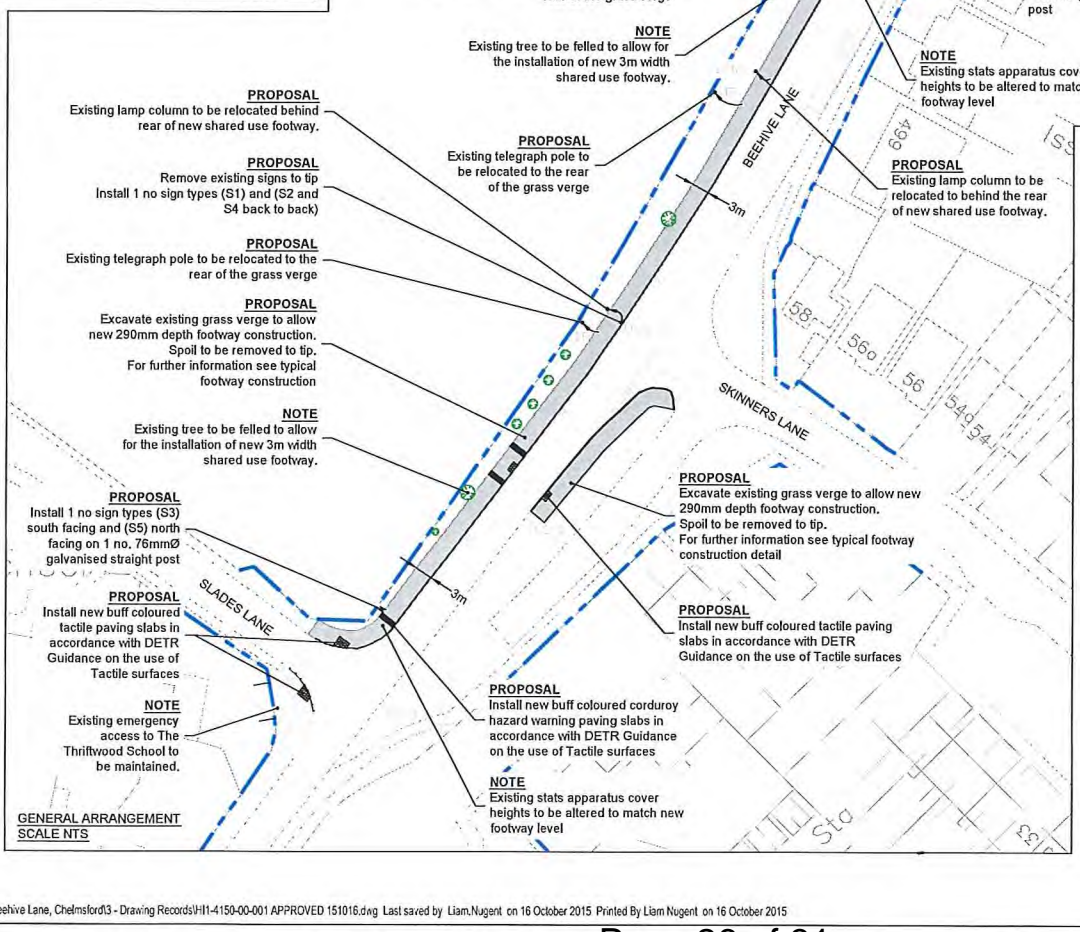
- NOTES**
- DO NOT SCALE FROM THIS DRAWING.
  - All diagram numbers refer to the Traffic Signs Regulations and General Directions 2002 and any amendment thereto.
  - Mounting height of all signs to be a minimum of 1.2m in verge or 2.1m in footway or 2.4m in cycleways, unless otherwise stated.
  - Sign posts shall not protrude above the top of the sign face unless supporting an external luminaire in which case the protrusion shall be kept to a minimum. All posts to be capped.
  - Lateral clearance of all pedestrian guardrail, signs and bollards to be 0.45m min. from the edge of carriageway, unless otherwise stated.
  - Any disturbance to existing grassed areas is to be made good with backfill, topsoil and seed.
  - All vegetation to be cut back to a height of 5m and removed to tip, unless otherwise stated.
  - Relocation of all telegraph poles and associated connection to be completed by UK Power Networks Ltd. (UKPN) prior to the start of work.
- KEY**
- Highway boundary
  - Existing lamp column
  - Existing telegraph pole
  - Existing stats apparatus
  - Existing gully
  - Proposed gully location
  - New shared use cycleway/footway - See typical footway construction
  - New surface course - See typical footway construction
  - New HB2 Kerbs - approx. 320m

**SIGN SCHEDULE SCALE NTS**

This map is reproduced from Ordnance Survey material with the permission of Ordnance Survey on behalf of the Controller of Her Majesty's Stationery Office © Crown Copyright. Unauthorised reproduction infringes Crown Copyright and may lead to prosecution or civil proceedings. Essex County Council, 100019002, 2015

File Location N:\9 Trans Imp\DCI\Projects\DC Scheme Files 2015-16\H1150 - Chelmer Park Cycle Route, Beehive Lane, Chelmsford3 - Drawing Records\H11-4150-00-001 APPROVED 151016.dwg Last saved by Liam.Nugent on 16 October 2015 Printed by Liam.Nugent on 16 October 2015

<b>S1</b>		<b>S2</b>	
Scheme Ref. H4150	Sign Ref. S1	Scheme Ref. H4150	Sign Ref. Proposed Sign Face
Sign Ref. S1	x-height 30.0	Sign Ref. Proposed Sign Face	x-height 30.0
Letter colour WHITE	SIGN FACE	Letter colour WHITE	SIGN FACE
Background BLUE	Width 760mm	Background BLUE	Width 575mm
Border WHITE	Height 175mm	Border WHITE	Height 175mm
Material Class RA2 (12899-1:2007)	Area 0.13sq.m	Material Class RA2 (12899-1:2007)	Area 0.10sq.m
<b>S3</b>		<b>S4</b>	
Sign Reference 956	Sign Reference 956	Scheme Ref. H4150	Sign Ref. Proposed Sign Face
Height 450mm	Height 300mm	Sign Ref. Proposed Sign Face	x-height 30.0
Width 450mm	Width 300mm	Letter colour WHITE	SIGN FACE
Area 0.16 sq.m	Area 0.07 sq.m	Background BLUE	Width 575mm
Material Class RA2 (12899-1:2007)	Material Class RA2 (12899-1:2007)	Border WHITE	Height 175mm
Mount Height 2400	Mount Height 2400	Material Class RA2 (12899-1:2007)	Area 0.10sq.m
<b>S5</b>		<b>S6</b>	
Scheme Ref. gt	Sign Ref. 966	Sign Reference 956	Sign Reference 956
Sign Ref. 966	x-height 40.0	Height 300mm	Height 300mm
Letter colour BLACK	SIGN FACE	Width 300mm	Width 300mm
Background WHITE	Width 535mm	Area 0.07 sq.m	Area 0.07 sq.m
Border BLACK	Height 230mm	Material Class RA2 (12899-1:2007)	Material Class RA2 (12899-1:2007)
Material Class RA2 (12899-1:2007)	Area 0.12sq.m	Mount Height 2400	Mount Height 2400



**DRAWING STATUS**

**OUTLINE DESIGN**

**RINGWAY JACOBS**  
Integrated expertise

**Essex County Council**

Mark Rowe, Service Director, Highways  
County Hall A2 Annex, Chelmsford, CM1 1QH  
Tel: 0845 6037631 © Essex County Council

**SCHEME TITLE**

**CHELMSFORD LHP  
BEEHIVE LANE, GALLEYWOOD  
LCHE154002**

**DRAWING TITLE**

**CYCLE ROUTE ENHANCEMENT  
OPTION 1  
GENERAL ARRANGEMENT**

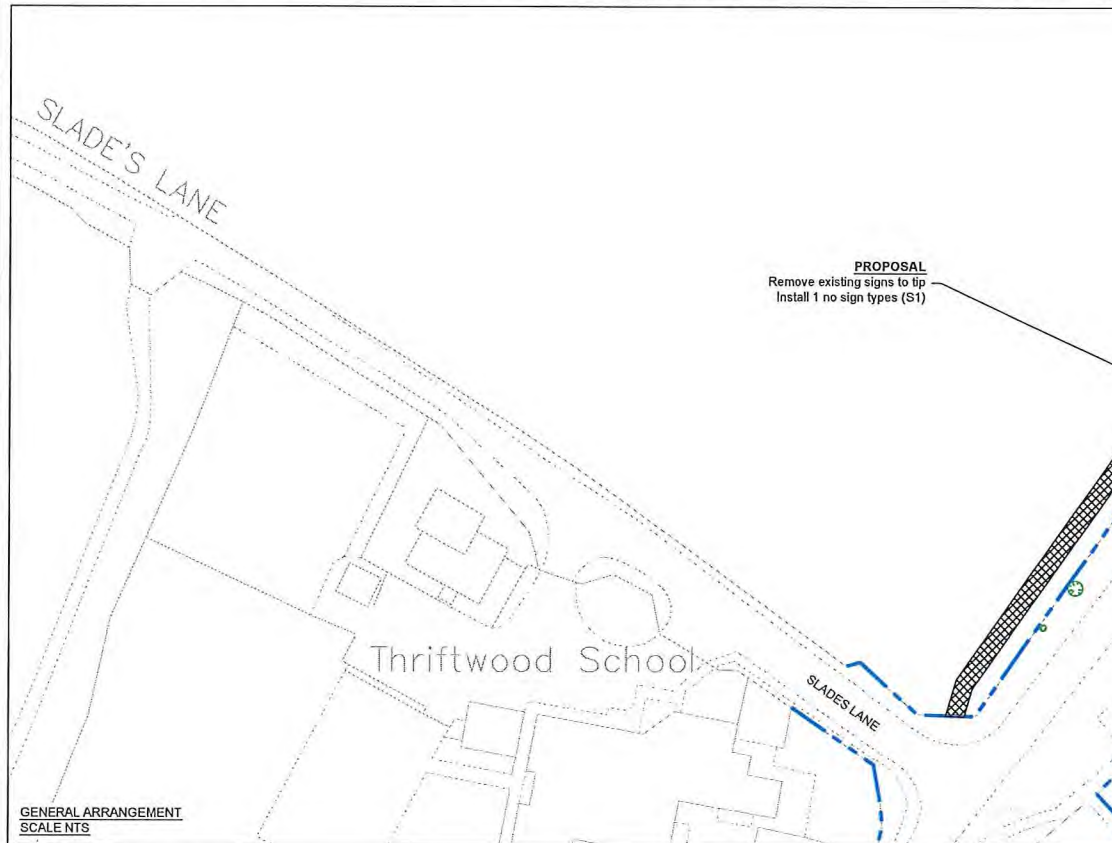
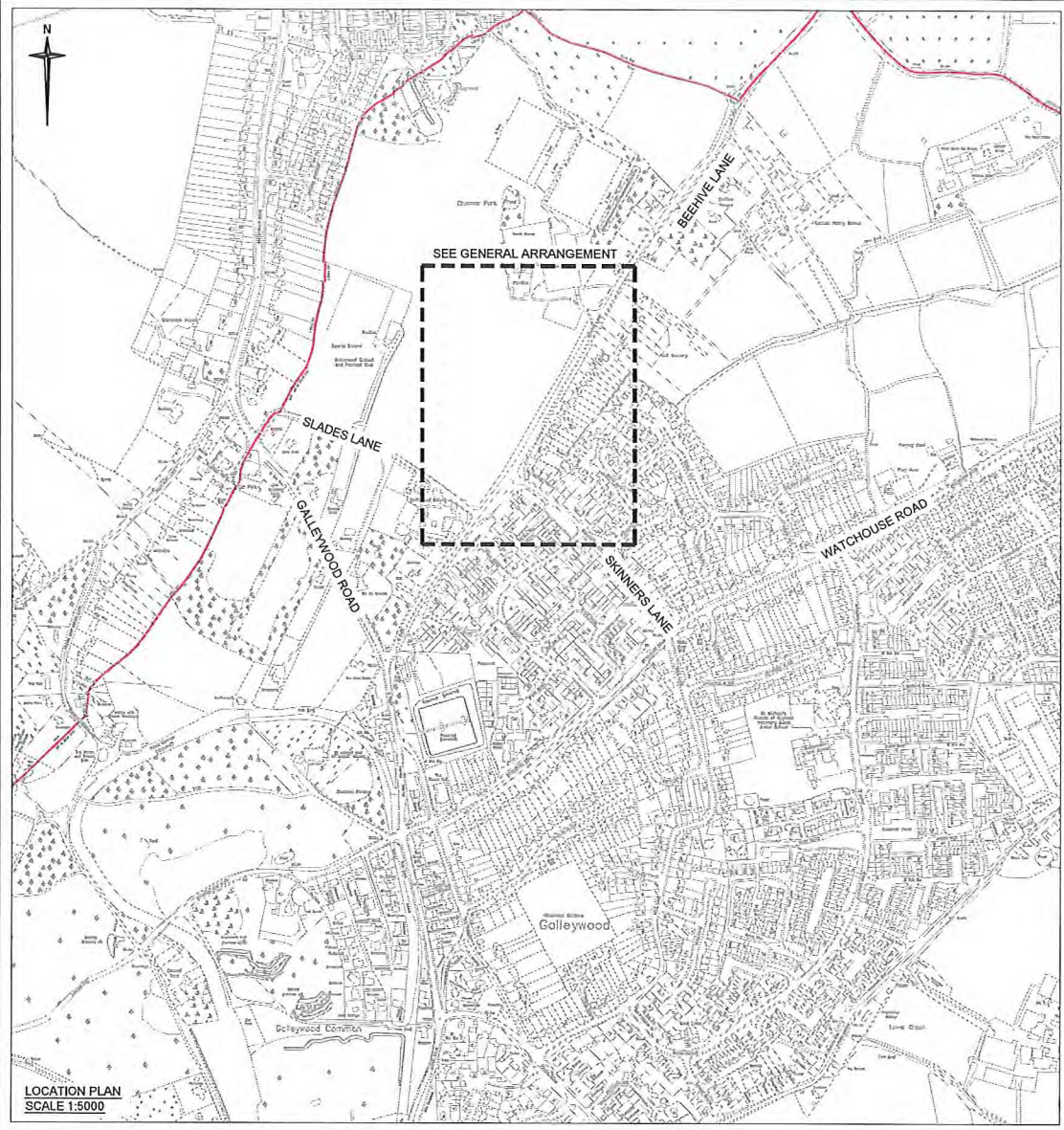
DESIGNED	DRAWN	CHECKED	REVIEWED	APPROVED
LCN	LCN	JAL	LCN	MBS
DATE	DATE	DATE	DATE	DATE
OCT 15	OCT 15	OCT 15	OCT 15	OCT 15

DRAWING UNITS UJLO. DIMENSIONS IN MILLIMETRES LEVELS IN METRES

SCALE AT A1 (841x594mm) AS SHOWN

DRAWING No. **H11-4150-00-001** REV. -





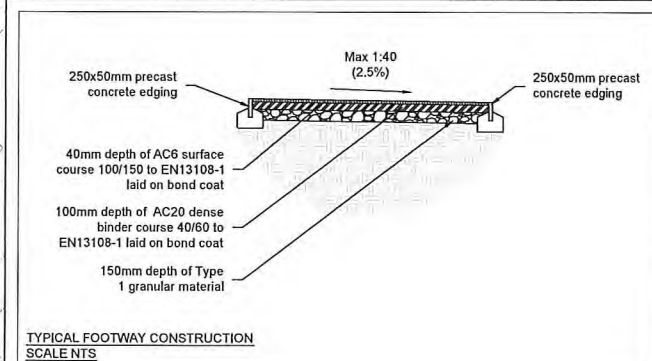
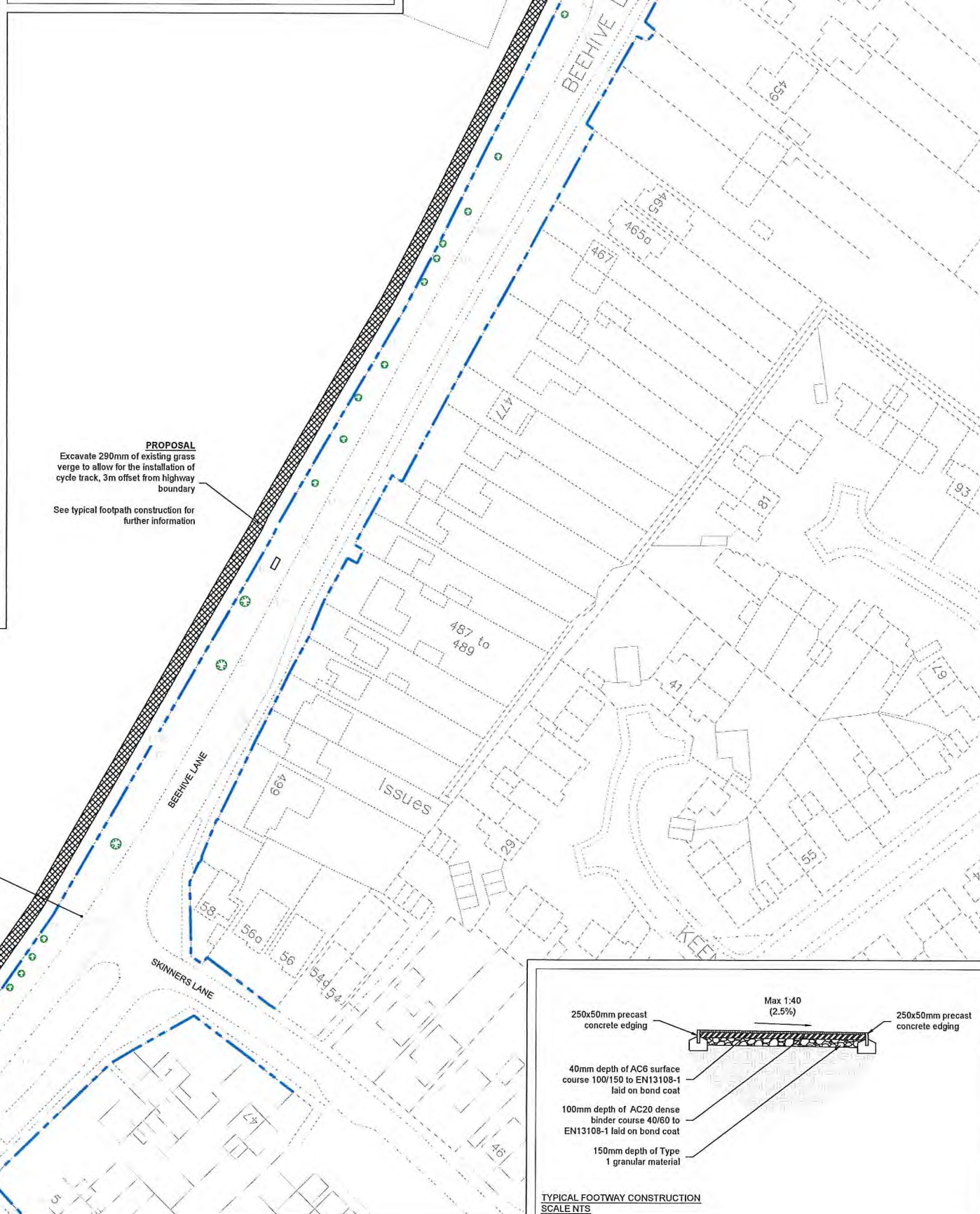
This map is reproduced from Ordnance Survey material with the permission of Ordnance Survey on behalf of the Controller of Her Majesty's Stationery Office © Crown Copyright. Unauthorised reproduction infringes Crown Copyright and may lead to prosecution or civil proceedings. Essex County Council, 100119602, 2015

File Location N:\9 Trans Imp\DC\Projects\DC Scheme Files 2015-16\HH150 - Chelmer Park Cycle Route, Beehive Lane, Chelmsford3 - Drawing Records\H1-4150-00-001 APPROVED 151016.dwg Last saved by Liam.Nugent on 16 October 2015 Printed By Liam.Nugent on 16 October 2015

S1

Scheme Ref.	HH150	n-height	30.0
Sign Ref.	S1	Sign Face	
Letter colour	WHITE	Width	760mm
Background	BLUE	Height	175mm
Border	WHITE	Area	0.13sq.m
Material Class	RA2 (12899-11:2007)		

SIGN SCHEDULE  
SCALE NTS



- NOTES**
- DO NOT SCALE FROM THIS DRAWING.
  - All diagram numbers refer to the Traffic Signs Regulations and General Directions 2002 and any amendment thereto.
  - Mounting height of all signs to be a minimum of 1.2m in verge or 2.1m in footway or 2.4m in cycleways, unless otherwise stated.
  - Sign posts shall not protrude above the top of the sign face unless supporting an external luminaire in which case the protrusion shall be kept to a minimum. All posts to be capped.
  - Lateral clearance of all pedestrian guardrail, signs and bollards to be 0.45m min. from the edge of carriageway, unless otherwise stated.
  - Any disturbance to existing grassed areas is to be made good with topsoil and seed.
  - All vegetation to be cut back to a height of 5m and removed to tip, unless otherwise stated.
  - Construction of new footway is subject to the confirmation from Chelmsford City Council.

**KEY**

	Highway boundary
	Existing lamp column
	Existing telegraph pole
	Existing stabs apparatus
	Existing gully
	New cycle route - See typical footway construction

Rev.	Date	Description of revision	Drawn	Checked	Reviewed	Approved

DRAWING STATUS  
**OUTLINE DESIGN**



Mark Rowe, Service Director, Highways  
County Hall A2 Annex, Chelmsford, CM1 1QH  
Tel. 0845 6037631 © Essex County Council

SCHEME TITLE  
**CHELMSFORD LHP  
BEEHIVE LANE, GALLEYWOOD  
LCHE154002**

DRAWING TITLE  
**CYCLE ROUTE ENHANCEMENT  
OPTION 2  
GENERAL ARRANGEMENT**

DESIGNED	DRAWN	CHECKED	REVIEWED	APPROVED
LCN	LCN	JAL	LCN	MBS
OCT 15	OCT 15	OCT 15	OCT 15	OCT 15

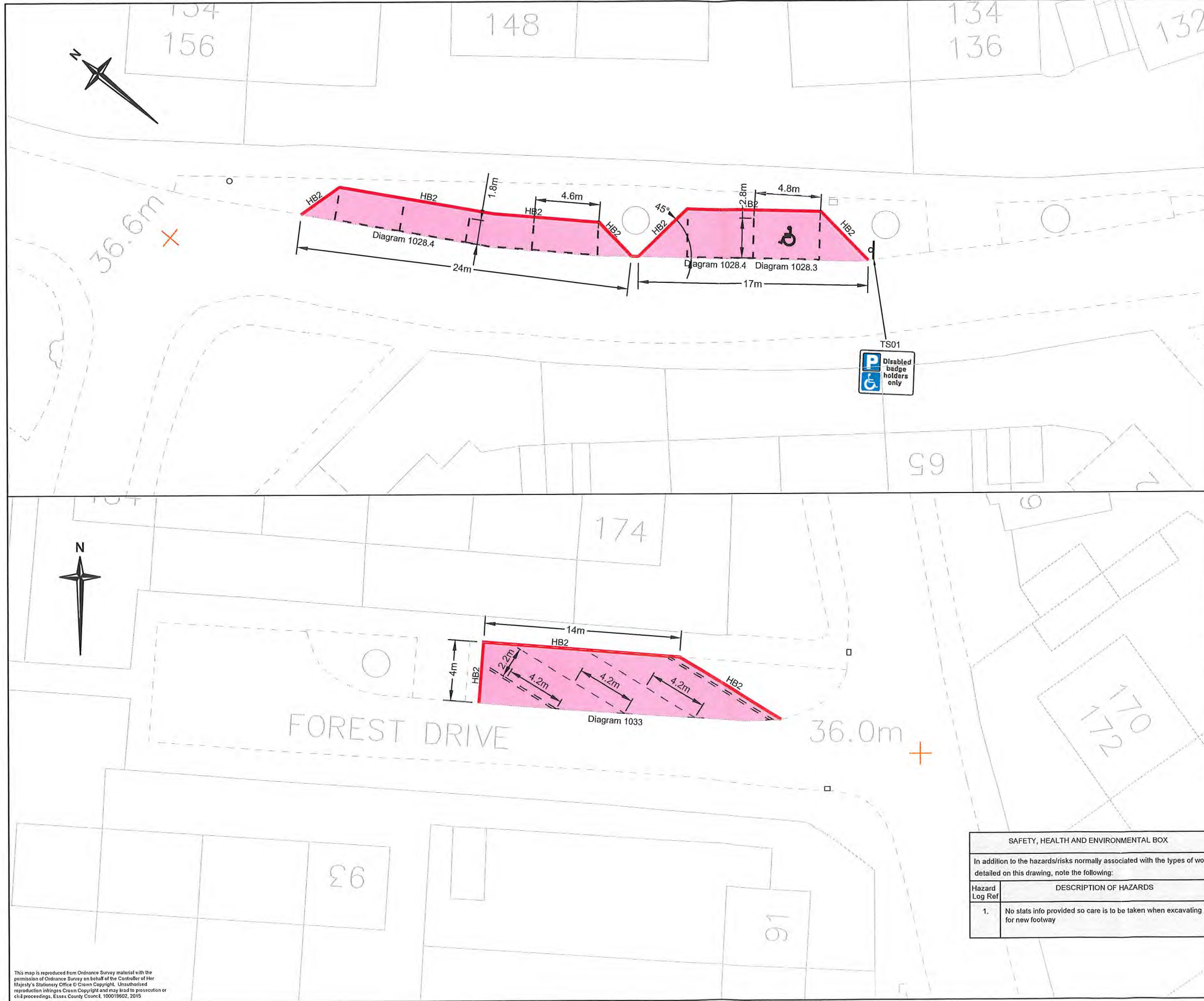
DRAWING UNITS U.S.G.  
DIMENSIONS IN MILLIMETRES  
LEVELS IN METRES

SCALE AT A1 (841x594mm)  
AS SHOWN

DRAWING NO.  
**HI1-4150-00-002**

REV.  
-





- Notes:**
1. Do not scale.
  2. This drawing is to be read in conjunction with all other contract drawings and documents.

- Key**
- New Pavement as shown on drawing 07-001
  - Precast Concrete HB2 Kerb as per Essex folio EB100
  - Proposed Informatory Sign as shown on drawing 12-001

Rev.	Date	Description of revision	Drawn	Checked	Reviewed	Approved

DRAWING STATUS: **OUTLINE DESIGN**



Mark Rowe, Service Director, Highways  
 Essex House, Victoria Road South, Chelmsford, CM1 1QH.  
 Tel. 0845 6037631 © Essex County Council

SCHEME TITLE: **New layby (Forest Drive)**

**SAFETY, HEALTH AND ENVIRONMENTAL BOX**

In addition to the hazards/risks normally associated with the types of work detailed on this drawing, note the following:

Hazard Log Ref	DESCRIPTION OF HAZARDS
1.	No stats info provided so care is to be taken when excavating for new footway

DRAWING TITLE: **GENERAL ARRANGEMENT**

DESIGNED	DRAWN	CHECKED	REVIEWED	APPROVED
MV	GS	SR	LC	BS
DATE: 08.01.16	DATE: 08.01.16	DATE: 08.01.16	DATE: 08.01.16	DATE: 08.01.16

DRAWING UNITS U.N.I.T.: DIMENSIONS IN MILLIMETRES  
 LEVELS IN METRES

SCALE AT A3 (420x297mm): 1:250

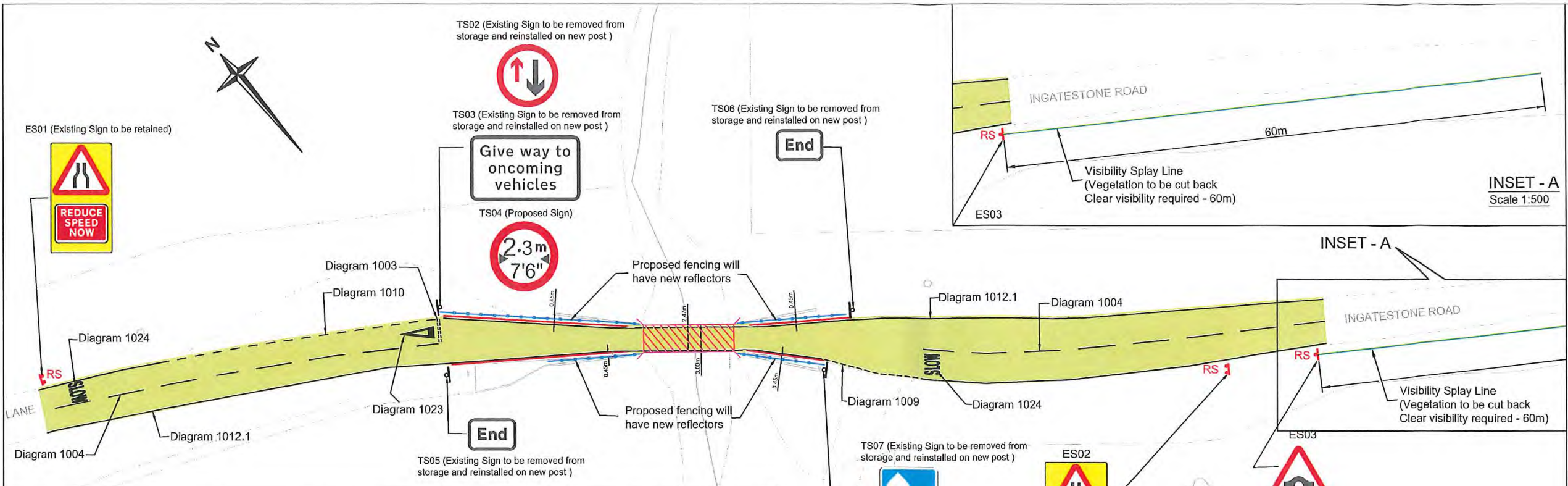
DRAWING No.: **DC-3494-00-001** REV.: **0**

This map is reproduced from Ordnance Survey material with the permission of Ordnance Survey on behalf of the Controller of Her Majesty's Stationary Office © Crown Copyright. Unauthorised reproduction infringes Crown Copyright and may lead to prosecution or civil proceedings. Essex County Council, 100019602, 2015









**Notes:**

- Do not scale.
- This drawing is to be read in conjunction with all other contract drawings and documents.
- All Traffic Signs and Road Markings in accordance with Traffic Sign Manual (TSM) and The Traffic Signs Regulations and General Directions (TSRGD).

**Key**

- Proposed Concrete HB2 Kerb with 125mm upstand as Essex folio EB100
- Existing Carriageway
- Proposed timber fencing as Essex folio EH107
- Existing Structure
- Existing Road Sign to be retained

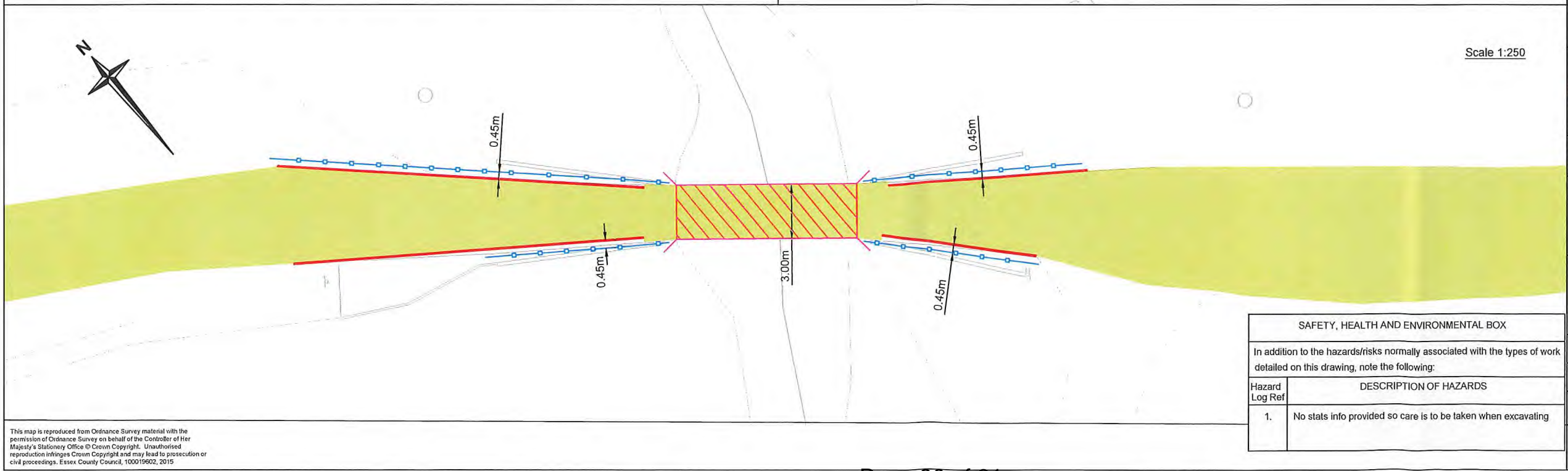
**Proposed Road Marking (Refresh of existing marking)**

- Diagram 1004 - Warning Line, 4000mm mark, 2000mm gap, 100mm wide.
- Diagram 1012.1 - Edge of Carriageway Continuous Line at Layby, 1000mm mark, 1000mm gap, 100mm wide.
- Diagram 1010 - Edge of Carriageway at Layby, 1000mm mark, 1000mm gap, 100mm wide.
- Diagram 1009 - Edge of Carriageway Line, 600mm mark, 300mm gap, 100mm wide.
- Diagram 1003 - Giveway double line, 600mm mark, 300mm gap, 200mm wide.
- Diagram 1023 - Triangular marking
- Proposed Traffic Signs
- Diagram 1024 - Slow text marking

TS02, TS03 & TS04	TS03 & TS04	TS05 & TS06	TS08 & TS09																																																																																																																																
<table border="1"> <tr><td>Scheme Ref.</td><td>Buttsbury Bridge</td></tr> <tr><td>Sign Ref.</td><td>TS02 (1102-2418)</td></tr> <tr><td>Letter colour</td><td>BLACK</td></tr> <tr><td>Background</td><td>WHITE</td></tr> <tr><td>Material</td><td>Alu</td></tr> <tr><td>Height</td><td>2300mm</td></tr> <tr><td>Width</td><td>600mm</td></tr> <tr><td>Area</td><td>0.36sqm</td></tr> </table>	Scheme Ref.	Buttsbury Bridge	Sign Ref.	TS02 (1102-2418)	Letter colour	BLACK	Background	WHITE	Material	Alu	Height	2300mm	Width	600mm	Area	0.36sqm	<table border="1"> <tr><td>Scheme Ref.</td><td>Buttsbury Bridge</td></tr> <tr><td>Sign Ref.</td><td>TS03 (1102-2418)</td></tr> <tr><td>Letter colour</td><td>BLACK</td></tr> <tr><td>Background</td><td>WHITE</td></tr> <tr><td>Material</td><td>Alu</td></tr> <tr><td>Height</td><td>2300mm</td></tr> <tr><td>Width</td><td>600mm</td></tr> <tr><td>Area</td><td>0.36sqm</td></tr> </table>	Scheme Ref.	Buttsbury Bridge	Sign Ref.	TS03 (1102-2418)	Letter colour	BLACK	Background	WHITE	Material	Alu	Height	2300mm	Width	600mm	Area	0.36sqm	<table border="1"> <tr><td>Scheme Ref.</td><td>Buttsbury Bridge</td></tr> <tr><td>Sign Ref.</td><td>TS05 (1102-2418)</td></tr> <tr><td>Letter colour</td><td>BLACK</td></tr> <tr><td>Background</td><td>WHITE</td></tr> <tr><td>Material</td><td>Alu</td></tr> <tr><td>Height</td><td>2300mm</td></tr> <tr><td>Width</td><td>600mm</td></tr> <tr><td>Area</td><td>0.36sqm</td></tr> </table>	Scheme Ref.	Buttsbury Bridge	Sign Ref.	TS05 (1102-2418)	Letter colour	BLACK	Background	WHITE	Material	Alu	Height	2300mm	Width	600mm	Area	0.36sqm	<table border="1"> <tr><td>Scheme Ref.</td><td>Buttsbury Bridge</td></tr> <tr><td>Sign Ref.</td><td>TS08 (1102-2418)</td></tr> <tr><td>Letter colour</td><td>BLACK</td></tr> <tr><td>Background</td><td>WHITE</td></tr> <tr><td>Material</td><td>Alu</td></tr> <tr><td>Height</td><td>2300mm</td></tr> <tr><td>Width</td><td>600mm</td></tr> <tr><td>Area</td><td>0.36sqm</td></tr> </table>	Scheme Ref.	Buttsbury Bridge	Sign Ref.	TS08 (1102-2418)	Letter colour	BLACK	Background	WHITE	Material	Alu	Height	2300mm	Width	600mm	Area	0.36sqm																																																																
Scheme Ref.	Buttsbury Bridge																																																																																																																																		
Sign Ref.	TS02 (1102-2418)																																																																																																																																		
Letter colour	BLACK																																																																																																																																		
Background	WHITE																																																																																																																																		
Material	Alu																																																																																																																																		
Height	2300mm																																																																																																																																		
Width	600mm																																																																																																																																		
Area	0.36sqm																																																																																																																																		
Scheme Ref.	Buttsbury Bridge																																																																																																																																		
Sign Ref.	TS03 (1102-2418)																																																																																																																																		
Letter colour	BLACK																																																																																																																																		
Background	WHITE																																																																																																																																		
Material	Alu																																																																																																																																		
Height	2300mm																																																																																																																																		
Width	600mm																																																																																																																																		
Area	0.36sqm																																																																																																																																		
Scheme Ref.	Buttsbury Bridge																																																																																																																																		
Sign Ref.	TS05 (1102-2418)																																																																																																																																		
Letter colour	BLACK																																																																																																																																		
Background	WHITE																																																																																																																																		
Material	Alu																																																																																																																																		
Height	2300mm																																																																																																																																		
Width	600mm																																																																																																																																		
Area	0.36sqm																																																																																																																																		
Scheme Ref.	Buttsbury Bridge																																																																																																																																		
Sign Ref.	TS08 (1102-2418)																																																																																																																																		
Letter colour	BLACK																																																																																																																																		
Background	WHITE																																																																																																																																		
Material	Alu																																																																																																																																		
Height	2300mm																																																																																																																																		
Width	600mm																																																																																																																																		
Area	0.36sqm																																																																																																																																		
<table border="1"> <tr><td>POSTS &amp; FOUNDATIONS</td></tr> <tr><td>Scheme Reference</td><td>Buttsbury Bridge</td></tr> <tr><td>Proposed Name</td><td>TS02, TS03 &amp; TS04</td></tr> <tr><td>Factor</td><td></td></tr> <tr><td>Description</td><td></td></tr> <tr><td>Material</td><td>Alu</td></tr> <tr><td>Height</td><td>2300</td></tr> <tr><td>Post Ref/Anchor</td><td>(As per spec)</td></tr> <tr><td>Post Ref</td><td>(As per spec)</td></tr> <tr><td>Post Type</td><td>Steel 50x50x50x50x50x50</td></tr> <tr><td>Number of posts</td><td>1</td></tr> <tr><td>Post Spacing</td><td>0.00</td></tr> <tr><td>Post Size</td><td>76.1 diam x 3.2 thickness</td></tr> <tr><td>Number</td><td>1</td></tr> <tr><td>Length</td><td>3.00</td></tr> <tr><td>Location</td><td>Total = 476.0, above ground = 316.0</td></tr> <tr><td>No. of Foundations</td><td>1</td></tr> <tr><td>Foundation Depth</td><td>600.0</td></tr> <tr><td>Foundation Width</td><td>300.0</td></tr> <tr><td>Foundation Length</td><td>300.0</td></tr> <tr><td>Foundation Volume</td><td>1.16</td></tr> <tr><td>Earth Cover</td><td>150.0</td></tr> </table>	POSTS & FOUNDATIONS	Scheme Reference	Buttsbury Bridge	Proposed Name	TS02, TS03 & TS04	Factor		Description		Material	Alu	Height	2300	Post Ref/Anchor	(As per spec)	Post Ref	(As per spec)	Post Type	Steel 50x50x50x50x50x50	Number of posts	1	Post Spacing	0.00	Post Size	76.1 diam x 3.2 thickness	Number	1	Length	3.00	Location	Total = 476.0, above ground = 316.0	No. of Foundations	1	Foundation Depth	600.0	Foundation Width	300.0	Foundation Length	300.0	Foundation Volume	1.16	Earth Cover	150.0	<table border="1"> <tr><td>POSTS &amp; FOUNDATIONS</td></tr> <tr><td>Scheme Reference</td><td>Buttsbury Bridge</td></tr> <tr><td>Proposed Name</td><td>TS03, TS04 &amp; TS05</td></tr> <tr><td>Factor</td><td></td></tr> <tr><td>Description</td><td></td></tr> <tr><td>Material</td><td>Alu</td></tr> <tr><td>Height</td><td>2300</td></tr> <tr><td>Post Ref/Anchor</td><td>(As per spec)</td></tr> <tr><td>Post Ref</td><td>(As per spec)</td></tr> <tr><td>Post Type</td><td>Steel 50x50x50x50x50x50</td></tr> <tr><td>Number of posts</td><td>1</td></tr> <tr><td>Post Spacing</td><td>0.00</td></tr> <tr><td>Post Size</td><td>76.1 diam x 3.2 thickness</td></tr> <tr><td>Number</td><td>1</td></tr> <tr><td>Length</td><td>3.00</td></tr> <tr><td>Location</td><td>Total = 476.0, above ground = 316.0</td></tr> <tr><td>No. of Foundations</td><td>1</td></tr> <tr><td>Foundation Depth</td><td>600.0</td></tr> <tr><td>Foundation Width</td><td>300.0</td></tr> <tr><td>Foundation Length</td><td>300.0</td></tr> <tr><td>Foundation Volume</td><td>1.16</td></tr> <tr><td>Earth Cover</td><td>150.0</td></tr> </table>	POSTS & FOUNDATIONS	Scheme Reference	Buttsbury Bridge	Proposed Name	TS03, TS04 & TS05	Factor		Description		Material	Alu	Height	2300	Post Ref/Anchor	(As per spec)	Post Ref	(As per spec)	Post Type	Steel 50x50x50x50x50x50	Number of posts	1	Post Spacing	0.00	Post Size	76.1 diam x 3.2 thickness	Number	1	Length	3.00	Location	Total = 476.0, above ground = 316.0	No. of Foundations	1	Foundation Depth	600.0	Foundation Width	300.0	Foundation Length	300.0	Foundation Volume	1.16	Earth Cover	150.0	<table border="1"> <tr><td>POSTS &amp; FOUNDATIONS</td></tr> <tr><td>Scheme Reference</td><td>Buttsbury Bridge</td></tr> <tr><td>Proposed Name</td><td>TS08 &amp; TS09</td></tr> <tr><td>Factor</td><td></td></tr> <tr><td>Description</td><td></td></tr> <tr><td>Material</td><td>Alu</td></tr> <tr><td>Height</td><td>2300</td></tr> <tr><td>Post Ref/Anchor</td><td>(As per spec)</td></tr> <tr><td>Post Ref</td><td>(As per spec)</td></tr> <tr><td>Post Type</td><td>Steel 50x50x50x50x50x50</td></tr> <tr><td>Number of posts</td><td>1</td></tr> <tr><td>Post Spacing</td><td>0.00</td></tr> <tr><td>Post Size</td><td>76.1 diam x 3.2 thickness</td></tr> <tr><td>Number</td><td>1</td></tr> <tr><td>Length</td><td>3.00</td></tr> <tr><td>Location</td><td>Total = 476.0, above ground = 316.0</td></tr> <tr><td>No. of Foundations</td><td>1</td></tr> <tr><td>Foundation Depth</td><td>600.0</td></tr> <tr><td>Foundation Width</td><td>300.0</td></tr> <tr><td>Foundation Length</td><td>300.0</td></tr> <tr><td>Foundation Volume</td><td>1.16</td></tr> <tr><td>Earth Cover</td><td>150.0</td></tr> </table>	POSTS & FOUNDATIONS	Scheme Reference	Buttsbury Bridge	Proposed Name	TS08 & TS09	Factor		Description		Material	Alu	Height	2300	Post Ref/Anchor	(As per spec)	Post Ref	(As per spec)	Post Type	Steel 50x50x50x50x50x50	Number of posts	1	Post Spacing	0.00	Post Size	76.1 diam x 3.2 thickness	Number	1	Length	3.00	Location	Total = 476.0, above ground = 316.0	No. of Foundations	1	Foundation Depth	600.0	Foundation Width	300.0	Foundation Length	300.0	Foundation Volume	1.16	Earth Cover	150.0
POSTS & FOUNDATIONS																																																																																																																																			
Scheme Reference	Buttsbury Bridge																																																																																																																																		
Proposed Name	TS02, TS03 & TS04																																																																																																																																		
Factor																																																																																																																																			
Description																																																																																																																																			
Material	Alu																																																																																																																																		
Height	2300																																																																																																																																		
Post Ref/Anchor	(As per spec)																																																																																																																																		
Post Ref	(As per spec)																																																																																																																																		
Post Type	Steel 50x50x50x50x50x50																																																																																																																																		
Number of posts	1																																																																																																																																		
Post Spacing	0.00																																																																																																																																		
Post Size	76.1 diam x 3.2 thickness																																																																																																																																		
Number	1																																																																																																																																		
Length	3.00																																																																																																																																		
Location	Total = 476.0, above ground = 316.0																																																																																																																																		
No. of Foundations	1																																																																																																																																		
Foundation Depth	600.0																																																																																																																																		
Foundation Width	300.0																																																																																																																																		
Foundation Length	300.0																																																																																																																																		
Foundation Volume	1.16																																																																																																																																		
Earth Cover	150.0																																																																																																																																		
POSTS & FOUNDATIONS																																																																																																																																			
Scheme Reference	Buttsbury Bridge																																																																																																																																		
Proposed Name	TS03, TS04 & TS05																																																																																																																																		
Factor																																																																																																																																			
Description																																																																																																																																			
Material	Alu																																																																																																																																		
Height	2300																																																																																																																																		
Post Ref/Anchor	(As per spec)																																																																																																																																		
Post Ref	(As per spec)																																																																																																																																		
Post Type	Steel 50x50x50x50x50x50																																																																																																																																		
Number of posts	1																																																																																																																																		
Post Spacing	0.00																																																																																																																																		
Post Size	76.1 diam x 3.2 thickness																																																																																																																																		
Number	1																																																																																																																																		
Length	3.00																																																																																																																																		
Location	Total = 476.0, above ground = 316.0																																																																																																																																		
No. of Foundations	1																																																																																																																																		
Foundation Depth	600.0																																																																																																																																		
Foundation Width	300.0																																																																																																																																		
Foundation Length	300.0																																																																																																																																		
Foundation Volume	1.16																																																																																																																																		
Earth Cover	150.0																																																																																																																																		
POSTS & FOUNDATIONS																																																																																																																																			
Scheme Reference	Buttsbury Bridge																																																																																																																																		
Proposed Name	TS08 & TS09																																																																																																																																		
Factor																																																																																																																																			
Description																																																																																																																																			
Material	Alu																																																																																																																																		
Height	2300																																																																																																																																		
Post Ref/Anchor	(As per spec)																																																																																																																																		
Post Ref	(As per spec)																																																																																																																																		
Post Type	Steel 50x50x50x50x50x50																																																																																																																																		
Number of posts	1																																																																																																																																		
Post Spacing	0.00																																																																																																																																		
Post Size	76.1 diam x 3.2 thickness																																																																																																																																		
Number	1																																																																																																																																		
Length	3.00																																																																																																																																		
Location	Total = 476.0, above ground = 316.0																																																																																																																																		
No. of Foundations	1																																																																																																																																		
Foundation Depth	600.0																																																																																																																																		
Foundation Width	300.0																																																																																																																																		
Foundation Length	300.0																																																																																																																																		
Foundation Volume	1.16																																																																																																																																		
Earth Cover	150.0																																																																																																																																		



Rev.	Date	Description of revision	Drawn	Checked	Reviewed	Approved



**Scale 1:250**

**DRAWING STATUS**

**DETAILED DESIGN**

**RINGWAY JACOBS**  
Integrated expertise

**Essex County Council**

Mark Rowe, Service Director, Highways  
Seax House, Victoria Road South, Chelmsford, CM1 1QH.  
Tel: 0345 6037631 © Essex County Council

**TRAFFIC MANAGEMENT IMPROVEMENTS AT BRIDGE BUTTSBURY BRIDGE**

**GENERAL ARRANGEMENT**

DESIGNED	DRAWN	CHECKED	REVIEWED	APPROVED
CA	RK	SR	LC	BS
DATE	DATE	DATE	DATE	DATE
05.02.16	05.02.16	05.02.16	05.02.16	05.02.16

DRAWING UNITS U.K.I.O.  
DIMENSIONS IN MILLIMETRES  
LEVELS IN METRES

SCALE AT A3 (420x297mm)  
AS SHOWN

DRAWING NO. **DC-HI4194-00-001** REV. **0**

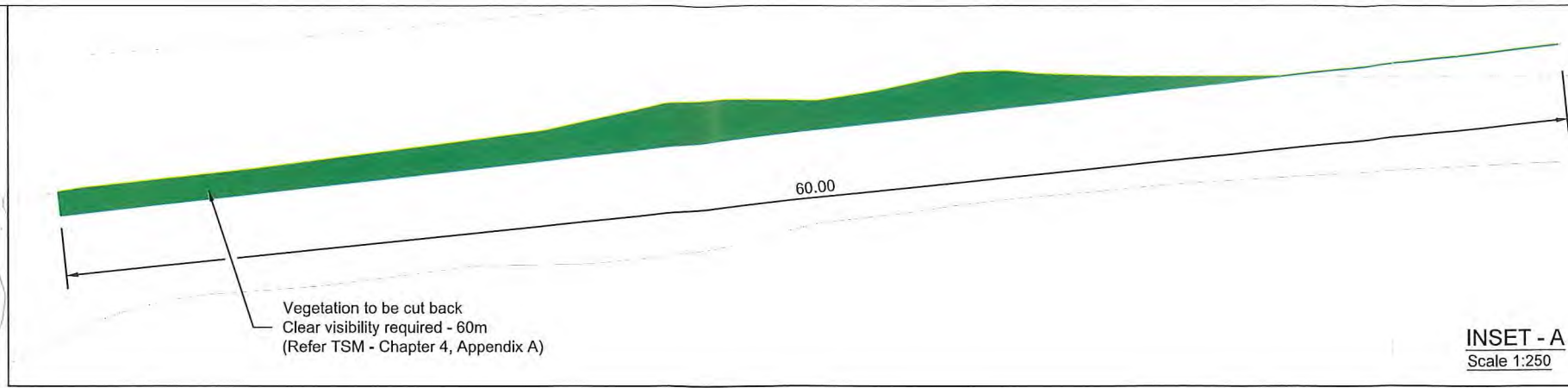
**SAFETY, HEALTH AND ENVIRONMENTAL BOX**

In addition to the hazards/risks normally associated with the types of work detailed on this drawing, note the following:

Hazard Log Ref	DESCRIPTION OF HAZARDS
1.	No stats info provided so care is to be taken when excavating

This map is reproduced from Ordnance Survey material with the permission of Ordnance Survey on behalf of the Controller of Her Majesty's Stationery Office © Crown Copyright. Unauthorised reproduction infringes Crown Copyright and may lead to prosecution or civil proceedings. Essex County Council, 100019602, 2015





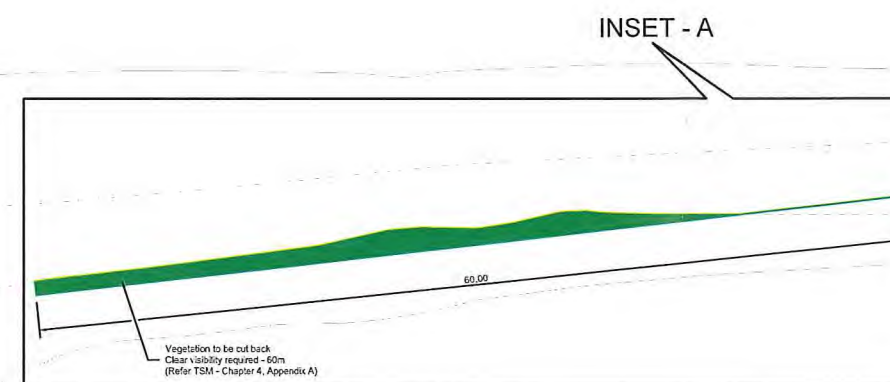
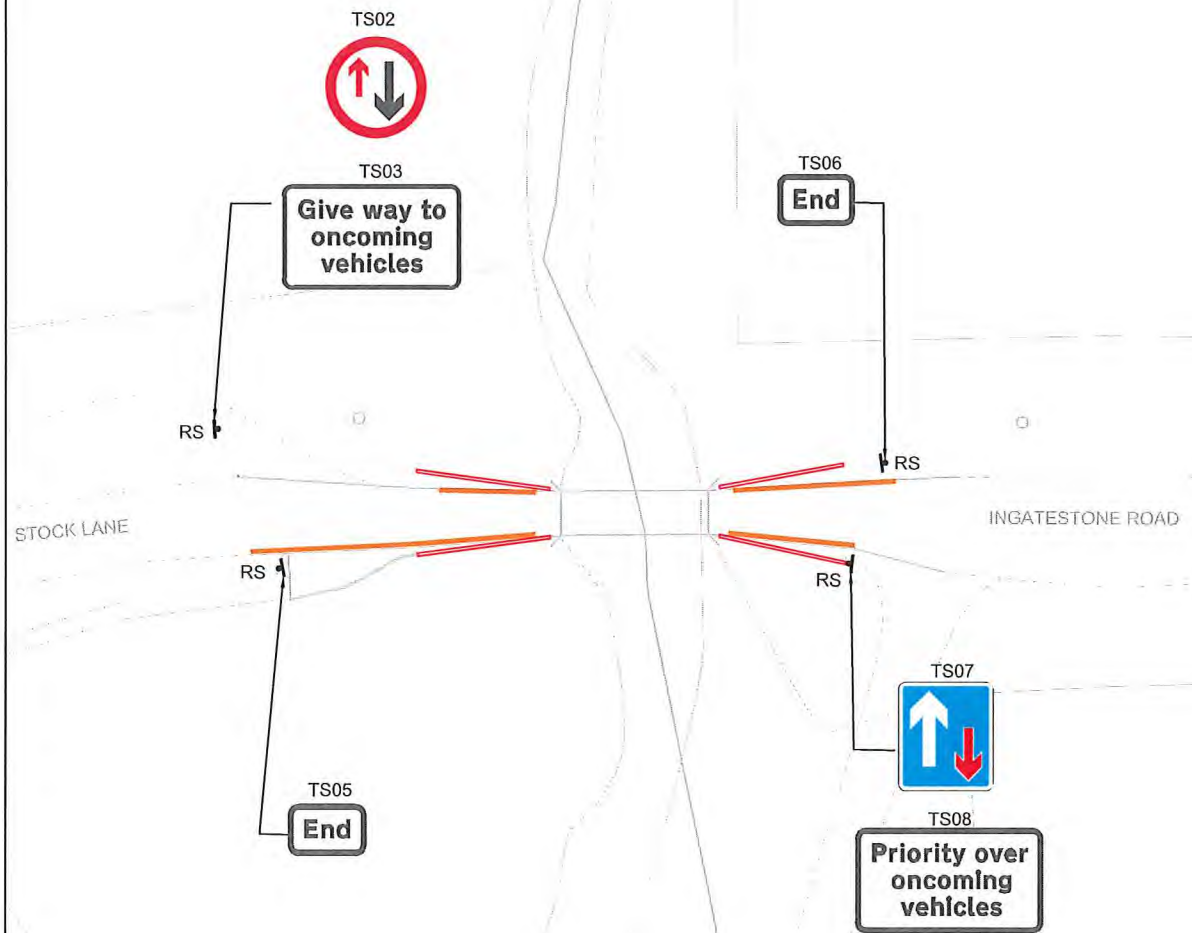
**INSET - A**  
Scale 1:250

**Notes:**

1. Do not scale.
2. This drawing is to be read in conjunction with all other contract drawings and documents.

**Key**

- Existing pavement to be excavated 300mm wide by 355 for proposed kerbing
- Vegetation to be cut back for clear visibility
- Existing fencing remove to tip off site
- RS Traffic Sign removed to store for reinstatement & relocation of signs



**INSET - A**

Rev.	Date	Description of revision	Drawn	Checked	Reviewed	Approved

DRAWING STATUS  
**DETAILED DESIGN**



Mark Rowe, Service Director, Highways  
Seax House, Victoria Road South, Chelmsford, CM1 1QH.  
Tel: 0345 6037631 © Essex County Council

SCHEME TITLE  
**TRAFFIC MANAGEMENT IMPROVEMENTS AT BRIDGE BUTTSBURY BRIDGE**

DRAWING TITLE  
**SITE CLEARANCE**

**SAFETY, HEALTH AND ENVIRONMENTAL BOX**

In addition to the hazards/risks normally associated with the types of work detailed on this drawing, note the following:

Hazard Log Ref	DESCRIPTION OF HAZARDS
1.	No stats info provided so care is to be taken when excavating

DESIGNED	DRAWN	CHECKED	REVIEWED	APPROVED
CA	RK	SR	LC	BS
DATE	DATE	DATE	DATE	DATE
05.02.16	05.02.16	05.02.16	05.02.16	05.02.16

DRAWING UNITS U.S./U.K.  
DIMENSIONS IN MILLIMETRES  
LEVELS IN METRES

SCALE AT A3 (420x297mm)  
**AS SHOWN**  
DRAWING No. **DC-HI4194-02-001** REV. **0**

This map is reproduced from Ordnance Survey material with the permission of Ordnance Survey on behalf of the Controller of Her Majesty's Stationery Office © Crown Copyright. Unauthorised reproduction infringes Crown Copyright and may lead to prosecution or civil proceedings. Essex County Council, 100019602, 2015



## CHELMSFORD CITY LOCAL HIGHWAYS PANEL POTENTIAL SCHEMES LIST (Version 27)

As part of the Essex County Council 2016/17 budget, which was agreed at Full Council on 9 February 2016, it was announced that the budget for Local Highways Panels (LHP) would be halved. This means for Chelmsford City LHP the available 2016/17 capital funding will be £500,000. It is recommended in 2016/17 that the panel make further scheme funding recommendations to create an £800,000 rolling programme of works.

This Potential Scheme List identifies all of the scheme requests which have been received for the consideration of the Chelmsford City Local Highways Panel. The Panel are asked to review the schemes on the attached Potential Scheme List, making funding recommendations against those they wish to see implemented and remove any schemes the Panel would not wish to consider for future funding.

At the Panel meeting held on 26 January 2016 it was agreed that a small group of Panel members and officers should meet to review the Potential Schemes List and prioritise schemes for a funding recommendation in 2016/17. This meeting was held on 16 February 2016 and a Scheme Priority column has now been added to the following Potential Schemes List, with a P to indicate the priority schemes. This meeting also recommended that a £50,000 pot of monies was ring fenced to allow existing schemes to progress where there may be an increase in the estimated costing.

<b>2016/17 Budget Summary</b>	
<b>Item</b>	<b>Amount</b>
Programmed Works (on Approved Works Programme, re-profiled into 2016/17)	£293,325
Priority Schemes (as shown on Potential Scheme List V.27 )	£196,750
Monies recommended for scheme Top-Ups	£50,000
<b>Sub-total</b>	<b>£540,075</b>
Less Section 106 Contributions	£14,883
<b>Grand total</b>	<b>£525,192</b>
Less recommended Rolling Programme budget 2016/17	£800,000
<b>Amount available for the LHP to allocate to additional schemes 2016/17</b>	<b>£274,808</b>



## CHELMSFORD CITY LOCAL HIGHWAYS PANEL POTENTIAL SCHEMES LIST (Version 27)

There are currently potential schemes with an estimated cost of £1,514,276 as shown in the summary below:

Potential Schemes List (Version 27)	
Scheme Type	Total Estimated Costs
Traffic Management	£408,536
Walking	£30,000
Quiet Lane	£3,000
Passenger Transport	£45,000
School Crossing Patrol	£3,000
Public Rights of Way	£157,000
Cycling	£590,140
Safer Roads	£277,600
	£1,514,276

On the Potential Schemes List the RAG column acknowledges the status of the scheme request as shown below:

RAG Status	Description of RAG status
G	A higher priority feasible scheme against strategic criteria
A	A lower priority feasible scheme against strategic criteria or may require additional Cabinet Member approval
R	A scheme which is against policy or where there is no appropriate engineering solution
	A scheme pending validation



Chelmsford City Local Highways Panel - Potential Schemes List (Version 27)

Traffic Management

Total Value of schemes	£408,536
------------------------	----------

Ref	Location	Description	Problem	Parish	Scheme Category	Scheme stage	Cost Code	Estimated cost	Comments	2016/17 Priority Scheme	RAG
1	Lodge Road, Bicknacre	Provision of passing bays - Option 2 - Formalise existing parking near Leighams Road initial estimate £4,500 next stage detailed design	Narrow road problems when two vehicles try to pass each other	Bicknacre	Traffic Management	Implementation	LCHE132025	£23,036	See design in Appendix 2	P	G
2	Hammonds Road/Church Road, Little Baddow to Boreham	Traffic Management improvements - vehicle routinely leaving road into fields	Speed of traffic	Boreham	Traffic Management	Design	LCHE142055	£3,000	Validation - Speed reduction to 40mph not recommended as average speeds too high. Church Road - Southbound -42.5mph & Northbound 43.8mph, Hammonds Road (north) Eastbound 47.3mph & Westbound 38.5mph and Hammonds Road (South) Southbound 46.6mph & Northbound 47.8mph. Recommendation is to proceed with design of bend improvement signage (Chevron/bend warning signs)	P	G
3	Brick House Lane, Boreham	Passing Bay signage to identify passing bay	Vehicles routinely park in passing bay causing an obstruction	Boreham	Traffic Management	Total Scheme	LCHE152014	£2,000	Validation - Passing Places signs would be suitable will require some vegetation to be cut back. Scheme to included sign, design and installation		G
4	Patching Hall Lane jw B1008 Broomfield Road, Broomfield	Signal upgrade to allow left turn out/right turn in phase and extension of two lane section	Improvements at permanent signals	Broomfield	Traffic Management	Total scheme	LCHE132069	TBC	Validation waiting on ITS and developers works		
5	Main Road nr jw Erick Avenue, Broomfield	Improvements to pedestrian crossing	Consideration of pedestrian crossing improvements	Broomfield	Traffic Management	Design	LCHE142081	£5,000	Road Safety Assessment - Option 1 Signalise Crossing point - estimated cost £140k, Option 2 (recommended by assessment) upgrade crossing point - estimated cost - £30k. Next stage detailed design Option 1 -£10k Option 2 - £5k (recommended)	P	G
6	Cooper's Row j/w Broomfield Road	Improvements to carriageway/kerb	Difference in level between carriageway and access ramp to Church	Broomfield	Traffic Management	Total scheme	LCHE152018	TBC	In validation		



**Chelmsford City Local Highways Panel - Potential Schemes List (Version 27)**

**Traffic Management**

<b>Total Value of schemes</b>	<b>£408,536</b>
-------------------------------	-----------------

Ref	Location	Description	Problem	Parish	Scheme Category	Scheme stage	Cost Code	Estimated cost	Comments	2016/17 Priority Scheme	RAG
7	Broomfield Primary School, School Road, Broomfield	Traffic management improvements outside school	Speed of traffic and vehicles parking on footways	Broomfield	Traffic Management	Total scheme	LCHE152021	NA	Validation - speed data 30mph limit - East bound 27.4mph West Bound 28.1mph. Speeds drop significantly at school times, morning 16.7 mph to 25.4mph and afternoon 14.9mph to 25.5mp[h. Good compliance with existing speed limit. Narrow footway so bollards not feasible. Parking Restrictions would be remit of Parking Partnership. School could raise issue with Parents.		R
8	Broomfield Parade/Pentland Avenue, Broomfield	Footway improvement measure/bollards	Lack of footway and vehicles obstructing footway	Broomfield	Traffic Management	Total scheme	LCHE152111	TBC	In Validation		
9	Main Road (at northern Broomfield Parish boundary), Broomfield	Village Gateway Treatment	Lack of Village Gateway feature to define entry to Broomfield	Broomfield	Traffic Management	Total scheme	LCHE142002	£5,000	Parish Council has agreed for scheme to be considered once any changes at adjacent roundabout have been finalised		A
10	Gunson Gate off Loftin Road, Chelmsford	Improvements to bus gateway and bus stops	Two bus stops opposite each other causing problems	Chelmsford Non Parished	Traffic Management	Total scheme	LCHE142064	TBC	In validation		
11	Danbury Vale, Danbury	Flood alleviation works - study into ground investigation/infiltration testing to determine number of soak ways and size	Flooding	Chelmsford Non Parished	Traffic Management	Feasibility	LCHE142052	£7,500	Validation - feasibility study recommended		G
12	West End of Chelmsford	Signage improvements to West End	Lack of signs to West End	Chelmsford Non Parished	Traffic Management	Total scheme	LCHE132056	TBC	In design	P	
13	Railway Bridge, Arbour Lane, Chelmsford	Footway widening works - recommendation to cut back vegetation and improve footway surface condition	Narrow footway for pedestrians	Chelmsford Non Parished	Traffic Management	Feasibility	LCHE142045	TBC	Technical Note previously shared with Panel March 2015 - Validation review - Highway Rangers to open up full width of footway and clear vegetation. Maintenance team to consider footway resurfacing/replacing kerbs over bridge.		
14	Essex Records Office, Chelmsford	Signage improvements to (1) vehicular access to ERO on Navigation Road and (2) outside pedestrian entrance to ERO	Lack of signage	Chelmsford Non Parished	Traffic Management	Total scheme	LCHE142085	£500	Validation - Site (2) agreed and Site (1) not necessary as building visible from location		G



**Chelmsford City Local Highways Panel - Potential Schemes List (Version 27)**

**Traffic Management**

<b>Total Value of schemes</b>	<b>£408,536</b>
-------------------------------	-----------------

Ref	Location	Description	Problem	Parish	Scheme Category	Scheme stage	Cost Code	Estimated cost	Comments	2016/17 Priority Scheme	RAG
15	Wood Street, Chelmsford Nr parade of shops	Pedestrian crossing improvements	lack of pedestrian crossing facilities	Chelmsford Non Parished	Traffic Management	Feasibility	LCHE142091	£10,000	Validation - PV <sup>2</sup> carried out, results 0.821x10 <sup>8</sup> . This is a complex site and a Feasibility/Design is recommended to consider crossing options feeding into validation	P	G
16	Waterson Vale, Chelmsford	Traffic management improvements to enforce 20mph zone	Speed of traffic	Chelmsford Non Parished	Traffic Management	Total scheme	LCHE142093	£1,500	Validation - speed data near Burghley Way SE 20.4mph and NW 18.7mph, near Chislett Row S 1839 mph and N18.4 mph. good compliance. Suggestion of 20 mph speed roundels at start of 20 mph limit and signage improvements		G
17	Westway j/w Robjohns Road, Chelmsford	Yellow box junction	vehicles turning obstruct junction	Chelmsford Non Parished	Traffic Management	Total scheme	LCHE142053	£5,000	Validation - recommends box junction		G
18	Park Avenue, Chelmsford	Cars mounting pavement causing conflict with pedestrians	Cars park on one side of road and when two vehicles try to pass, they routinely mount the pavement	Chelmsford Non Parished	Traffic Management	Total Scheme	LCHE152016	TBC	In Validation		
19	North Avenue, Chelmsford	Pedestrian crossing improvements	Difficult for pedestrians to cross road.	Chelmsford Non Parished	Traffic Management	Feasibility	LCHE142059	£5,000	Validation - PV <sup>2</sup> survey data 0.771x10 <sup>8</sup> , crossing warranted. Recommendation for feasibility study/design due to complexities of site, may require signalised junction.		G
20	King Edward VI Grammar School and Chelmsford County High School for Girls, Broomfield Road, Chelmsford	Traffic Management Improvements	Speed of traffic at pedestrians crossings	Chelmsford Non Parished	Traffic Management	Total scheme	LCHE152020	£3,000	Validation - recommends Road Safety Assessment at location and if necessary design	P	G
21	O/s Parade of shops, 90-106 Kings Road, Chelmsford	Parking improvements - echelon parking	Lack of parking for shops	Chelmsford Non Parished	Traffic Management	Design	LCHE152004	£2,000	Validation - suggests that if echelon parking were introduced this could increase available parking by 10 spaces though scheme costs could be high, recommendation for detailed design which will also provide target costs.		G
22	Old Moulsham, Chelmsford	7.5T environmental weight limit	Delivery vehicles driving through residential Old Moulsham to Moulsham Street	Chelmsford Non Parished	Traffic Management	Feasibility	LCHE152091	£10,000	Validation recommends feasibility study and traffic surveys		G

**Chelmsford City Local Highways Panel - Potential Schemes List (Version 27)**

**Traffic Management**

<b>Total Value of schemes</b>	<b>£408,536</b>
-------------------------------	-----------------

Ref	Location	Description	Problem	Parish	Scheme Category	Scheme stage	Cost Code	Estimated cost	Comments	2016/17 Priority Scheme	RAG
23	Regency Close, Chelmsford	Resurface over old tree pit	Tree removed some time ago	Chelmsford Non Parished	Traffic Management	Total scheme	LCHE152092	£10,000	Validation - Possible to resurface 3m x 3m tree pit to footway standard or Highway Rangers could cut back vegetation/dig over tree pit		G
24	174-193 Forest Drive, Chelmsford	Improved parking	Lack of residents parking	Chelmsford Non Parished	Traffic Management	Total scheme	LCHE152094	£60,000	Validation -possible to install a parking area 21m x 4.5m but depending on full statutory undertakers apparatus survey		A
25	29-59 North Avenue, Chelmsford	Improved parking	Lack of residents parking	Chelmsford Non Parished	Traffic Management	Total scheme	LCHE152095	£5,000	Validation - Option to encourage residents to apply for dropped kerbs and park on their frontage for Feasibility Study/Design into creating parking within adjacent green area.		G
26	Goldlay Avenue nr jw Burwood Court, Chelmsford	Footway bollard to stop vehicles driving over footway	Reports that following prohibition of traffic, cars driving over footway	Chelmsford Non Parished	Traffic Management	Total scheme	LCHE152102	£2,000	Request to reinforce prohibition of traffic measures installed under Section 106 funding		G
27	Old Moulsham, Chelmsford	7.5tonne environmental weight limit	Delivery vehicles for Moulsham Street routinely driving through Old Moulsham	Chelmsford Non Parished	Traffic Management	Feasibility	LCHE152091	£10,000	Validation - recommends feasibility study into 7.5t environmental weight limit, to include HGV traffic surveys and details of any delivery vehicles using Old Moulsham to access Moulsham Street shops		G
28	Waterhouse Street Chelmsford	Signage to show service roads unsuitable for larger vehicles	Several narrow service roads only accessible to cars/smaller vehicles	Chelmsford Non Parished	Traffic Management	Total scheme	LCHE152100	£1,500	Validation - suggestion is to improve signage at Waterhouse Street j/w Writtle Road to show cul de sac and Unsuitable for HGV's		G
29	Admirals Park Estate, Chelmsford	20mph zone	Speed of vehicles	Chelmsford Non Parished	Traffic Management	Total scheme	LCHE152115	TBC	In validation - will require 30 automatic traffic counts costing £7,500		
30	The Rising Sun P/h New London Road, Chelmsford	Dropped kerbs	Lack of dropped kerbs across fore court	Chelmsford Non Parished	Traffic Management	Total Scheme	LCHE152098	£2,500	Validation - Dropped kerbs can be installed to improve access across frontage of Public House		G
31	78-88 Roxwell Road, Chelmsford	TMI to reinforce 30mph speed limit	Speed of traffic	Chelmsford Non Parished	Traffic Management	Total scheme	LCHE152116	TBC	In validation		



Chelmsford City Local Highways Panel - Potential Schemes List (Version 27)

Traffic Management

Total Value of schemes	£408,536
------------------------	----------

Ref	Location	Description	Problem	Parish	Scheme Category	Scheme stage	Cost Code	Estimated cost	Comments	2016/17 Priority Scheme	RAG
32	S/O78a Kings Road Convenience Store, King's Road, Chelmsford	Verge improvements to prevent parking	Vehicles routinely damaging the verge	Chelmsford Non Parished	Traffic Management	Total scheme	LCHE152108	£6,500	Validation - Recommended not to progress a lay-by, possible conflict with vehicles leaving adjacent service road and any lay-by, also appears to be utility apparatus within verge which would significantly affect costs. It appears bollards have been installed on the verge to prevent parking and the scheme suggestion is to also cover the verge to east of the shop.		G
33	Duke Street near its junction with Tindal Square, Chelmsford	Measures to resolve pedestrian/cyclist conflict at pedestrian crossing	Pedestrians crossing away from pedestrian crossing	Chelmsford Non Parished	Traffic Management	Total scheme	LCHE152107	NA	Validation - recommendation is that pedestrian guard rail cannot be installed on north-east side of pedestrian crossing as the footway is too narrow and there is a pinch point.		R
34	O/s 78 to 88 Roxwell Road, Chelmsford	Traffic management measures to enforce 30mph speed limit	Speed of traffic	Chelmsford Non Parished	Traffic Management	Total scheme	LCHE152116	TBC	In validation		
35	First Avenue, Chelmsford	Traffic management improvements	Speed of traffic	Chelmsford Non Parished	Traffic Management	Total scheme	LCHE152120	NA	Validation - speed survey data mean average speeds east bound 23.8mph and West bound 24.1mph. Majority of drivers understand and comply with the speed limit. Any drivers that exceed speed limit would be an enforcement issue.		R
36	Longmead Avenue j/w Meadgate Avenue, Chelmsford	Parking and traffic management improvements	Parking issues	Chelmsford Non Parished	Traffic Management	Total scheme	LCHE152121	TBC	In validation		
37	Chignal Hall Lane jw Mashbury Road, Chignal Smealy	Remove bennet junction	Existing verge being overrun dragging mud onto road	Chignal Smealy	Traffic Management	Feasibility	LCHE152093	£3,000	Validation - Feasibility/design recommended into junction improvement options.		G
38	Sporhams Lane, Danbury	Width restriction on road, to prevent goods vehicles damaging verges	Vehicles damaging verges	Danbury	Traffic Management	Total scheme	LCHE142092	TBC	In validation		

Chelmsford City Local Highways Panel - Potential Schemes List (Version 27)

Traffic Management

Total Value of schemes	£408,536
------------------------	----------

Ref	Location	Description	Problem	Parish	Scheme Category	Scheme stage	Cost Code	Estimated cost	Comments	2016/17 Priority Scheme	RAG
39	Well Lane to The Heights - Service Road, Danbury	One-way road	Vehicles routinely parking/blocking service road	Danbury	Traffic Management	Feasibility	LCHE152104	£2,000	Validation - request for one-way system is feasible but proposal requires swept path analysis to ensure larger vehicles such as fire engines can make the turning into the Heights. Feasibility will also cover design and costs.		G
40	Bicknacre Road, Overshot Bridge to Poplar Farm	Walkable verge	Lack of walkable verge for pedestrians	Danbury	Traffic Management	Total scheme	LCHE152110	TBC	In validation		
41	The Common, East Hanningfield	Traffic Management Improvements	Speed of traffic	East Hanningfield	Traffic Management	Feasibility	LCHE142022	£5,000	Validation - recommends feasibility study into traffic calming and pedestrian video survey		G
42	S/o Vita Bella, The Tye, East Hanningfield	Footway widening works - kerbing/resurfacing to open up full width	Narrow footway for pedestrians	East Hanningfield	Traffic Management	Feasibility	LCHE152105	£3,000	Validation - feasibility study into footway widening to consider extent of highway, statutory undertakers apparatus and fully cost any scheme proposal		G
43	Stock Road/ Watchouse Road, Galleywood	Signs to heritage centre	Lack of signs	Galleywood	Traffic Management	Total scheme	LCHE142067	£1,500	Validation review - Does not meet DfT Guidance on Sign Clutter, would need specific Cabinet Member Approval to proceed		A
44	The Street jw Stock Road, Galleywood	Junction protection parking restrictions	Parking improvements	Galleywood	Traffic Management	Total scheme	LCHE142098	TBC	In validation	P	
45	Barnard Road, Galleywood	20 mph speed limit, especially o/s St Michael's CE Junior and Galleywood Infants schools	Speed of traffic following installation of recent parking restrictions	Galleywood	Traffic Management	Total Scheme	LCHE152013	NA	Validation - speed survey near schools Northbound 25.3mph Southbound 24.2mph. Good speed compliance 20mph limit not recommended also scheme costs for a 20mph would be around £113k due to 13 junctions requiring lit terminal signs.		R
46	Watchouse Road, Galleywood	Flood warning signs	Road routinely floods affecting adjacent properties	Galleywood	Traffic Management	Total scheme	LCHE152083	TBC	In Validation		



**Chelmsford City Local Highways Panel - Potential Schemes List (Version 27)**

**Traffic Management**

<b>Total Value of schemes</b>	<b>£408,536</b>
-------------------------------	-----------------

Ref	Location	Description	Problem	Parish	Scheme Category	Scheme stage	Cost Code	Estimated cost	Comments	2016/17 Priority Scheme	RAG
47	School Road, Good Easter	7.5T environmental weight limit	Goods vehicle using route as an alternative route damaging road	Good Easter	Traffic Management	Total scheme	LCHE152017	NA	Validation - Speed/volume data shows HGV's are not using this road. Unsuitable for HGV signage considered as unsuitable as this road is similar to others in the vicinity and could lead to excessive blue signs.		R
48	Titus Well Lane, Good Easter	Measures to enforce Protected Lane status	Larger vehicles using lane and causing damage	Good Easter	Traffic Management	Total scheme	LCHE152117	NA	Validation - Titus Well Lane j/w School Road signed to show Ford and Unsuitable for Motor Vehicles. Physical measures could affect deliveries to Residents and Farm vehicles.		R
49	Essex Healthcare Park, Great Baddow	Directional signs to health clinic	Lack of signs to clinic	Great Baddow	Traffic Management	Total scheme	LCHE152097	£1,500	Validation - Does not meet DfT guidance on sign clutter so will need Cabinet Member Approval to proceed. Also possible Third Party funding for scheme		A
50	Church Street, Great Baddow	Traffic calming/wider footways	Speed of traffic	Great Baddow	Traffic Management	Total scheme	LCHE152099	TBC	In validation		
51	Glovers Estate - (Brickbarns, Castlefield, Glovers, Permain), Great Leighs	20 mph speed limit	Speed of traffic	Great Leighs	Traffic Management	Total scheme	LCHE142078	£12,000	Validation - Speed survey results - Brickbarns South bound - 12.7mph & North bound - 13.3mph, Castlefield East bound 11.3mph & West bound 10.3mph, Glovers Northeast bound - 14.3mph & Southwest bound - 15.6mph, Permain Southeast bound - 12.2mph & Northwest bound - 13.3mph. all speeds below necessary 24mph average speed for a 20mph change but very good compliance with existing 30mph limit.		G
52	O/s 50-62 Shimbrooks, Great Leighs	Parking improvements	Cars frequently blocked in and cannot get out	Great Leighs	Traffic Management	Total scheme	LCHE152114	TBC	In Validation		
53	School Lane, Great Leighs	Crossing point improvements	Measures to stop cyclists/pedestrians going straight into road	Great Leighs	Traffic Management	Total scheme	LCHE152015	£12,000	Validation - Improvements to pedestrian crossing being dealt with by S.106 funding. Improvement to School Lane would be speed limit repeater signs along road to advise traffic of speed limit when driving along road.		G
54	Main Road, Howe Street	SID socket/pole	Speed of traffic	Great Waltham	Traffic Management	Total scheme	LCHE142070	£500	Validation - posted speed limit 30 mph, mean average speed south-east bound 36.7mph, north-west bound 36.1mph. Mean average speed +5mph over posted speed limit	P	G

Chelmsford City Local Highways Panel - Potential Schemes List (Version 27)

Traffic Management

Total Value of schemes	£408,536
------------------------	----------

Ref	Location	Description	Problem	Parish	Scheme Category	Scheme stage	Cost Code	Estimated cost	Comments	2016/17 Priority Scheme	RAG
55	Chelmsford Road, Minnow End	SID socket/pole	Speed of traffic	Great Waltham	Traffic Management	Total scheme	LCHE142071	£750	Validation - speed compliance good, some speeding in early hours. If SID taken forward will require specific Cabinet Member Approval. Parish Council has confirmed they have a SID which is rotated within Parish and only require an additional pole.	P	A
56	South Street, Great Waltham	Pedestrian guard rail at footpath/carrageaway	Lack of pedestrian guard rail	Great Waltham	Traffic Management	Total scheme	LCHE142072	£3,000	Validation suggests staggered guard rail on footpath. Possible S.106 contribution for the works.		A
57	South Street, Great Waltham	Speed Indicator Device pole to allow rotation of existing unit	Speed of traffic	Great Waltham	Traffic Management	Total Scheme	LCHE142073	£750	Validation - recorded speeds NE bound 31.8mph & SW bound 32.0 mph, with evidence of speeding. Recommend SID pole installed		A
58	Highwood Road, Loves Green, Highwood	Traffic management improvements - Remove centre white line/renew SLOW road markings/build outs at school with priority flow, estimated cost £8,500 next stage detailed design	Speed of traffic	Highwood	Traffic Management	Design	LCHE142038	£3,000	Technical Note previously shared with Panel March 2015		G
59	Highwood Road, Edney Common	Traffic management improvements - Remove centre white line/renew SLOW road markings/build outs at play ground/public house with priority flow, estimated cost £8,500 next stage detailed design	Speed of traffic	Highwood	Traffic Management	Design	LCHE142039	£3,000	Technical Note previously shared with Panel March 2015		G
60	Highwood Road Edney Common to Loves Green, including St Peter Church	Pedestrian footway- 1.2m walkable verge, crossing point at Highwood Road and removal of informal layby at St Peters Church, estimated cost £105,000 next stage detailed design	Lack of footway/walkable verge	Highwood	Traffic Management	Design	LCHE142040	£3,500	Technical Note previously shared with Panel March 2015		G
61	The Ridge jw Runsell Lane and Fir Tree Lane and Holybread Lane, Little Baddow	Speed Indicator Poles (x3) and Speed Indicator Device on rotation	To remind traffic of 30 mph speed limit	Little Baddow	Traffic Management	Total scheme	LCHE152084	TBC	In Validation		



Chelmsford City Local Highways Panel - Potential Schemes List (Version 27)

Traffic Management

Total Value of schemes	£408,536
------------------------	----------

Ref	Location	Description	Problem	Parish	Scheme Category	Scheme stage	Cost Code	Estimated cost	Comments	2016/17 Priority Scheme	RAG
62	B1002 Main Road, Wantz Road/Writtle Road, Margaretting	Reduction from 40 mph to 30 mph	Speed of traffic	Margaretting	Traffic Management	Total scheme	LCHE132059	NA	Validation - good speed compliance, Speed survey results - B1008 Main Road 40mph limit NE bound 40.3mph a& SW bound 35.7mph, Writtle Road 60mph limit BN bound 30.3mph & S bound 35.7 mph. Roads considered & reviewed under Speed Limit Review, speeds found to be appropriate & driver unlikely to adhere to a lower limit.		R
63	Wantz Road/Roman Road/Main Road, Margaretting	Village gateway treatments	Speed of traffic entering Village	Margaretting	Traffic Management	Total scheme	LCHE152118	£15,000	Validated by Third Party Works team		G
64	A414 Three Mile Hill/London Road, Margaretting	Traffic management improvements or 40mph speed limit	Speed of traffic and pedestrians trying to cross from PRoW at Private Road to Hylands House	Margaretting	Traffic Management	Total scheme	LCHE152119	NA	Validation - good compliance with 70mph speed limit, speed data (a) A414 North end - South 46.3mph & North 58.9mph, (b) A414 Middle - South 55.8mph & North 57.1mph, (c) A414 South end - South 53.8mph & North 49.9mph. Road is high speed dual carriageway and is not suitable for a 40mph limit, as would not be self-explanatory and compliance could be expected to be low. If pedestrian crossing is a problem PV <sup>2</sup> survey required. Could lead to controlled crossing or footbridge (very high costs, likely to exceed the budget of the Panel). This would need to be treated as a Major Scheme.		R
65	A1245/A132 Roundabout, Rettendon	Lane marking on RAB - Option 1 - Guidance lane marking on RAB and additional signs on A132 Option 2 - As option 1 but with lead in road markings	Improvements to lane markings	Rettendon	Traffic Management	Total scheme	LCHE142019	£17,500	Technical Note previously shared with Panel March 2015		G
66	Maltings Road, Rettendon	Traffic management improvements to single track road	Speed of traffic	Rettendon	Traffic Management	Total scheme	LCHE142084	NA	Validation - speed data West location 40 mph limit Eastbound 17.5mph & Westbound 16.8mph. East location 40mph limit Northeast bound 22.8mph & Southwest bound 20.4mph. Good speed compliance.		R
67	Bridge over River Crouch, Hawk Hill, Battlesbridge	Signalisation of priority working over bridge	Frequently two cars try to cross bridge at same time causing a "face to face" stand off in middle of bridge	Rettendon	Traffic Management	Feasibility	LCHE152001	£2,000	Validation - Signalisation of bridge could cost £160k, it is first advised to carry out Road Safety Assessment of proposal to address any safety concerns/risks of signalisation. Also existing scheme LCHE142030 to improve signage on bridge.		G

**Chelmsford City Local Highways Panel - Potential Schemes List (Version 27)**

**Traffic Management**

<b>Total Value of schemes</b>	<b>£408,536</b>
-------------------------------	-----------------

Ref	Location	Description	Problem	Parish	Scheme Category	Scheme stage	Cost Code	Estimated cost	Comments	2016/17 Priority Scheme	RAG
68	The Street j/w Vicarage Road Roxwell	Traffic management improvements	Speed of traffic on narrow road with sharp bend	Roxwell	Traffic Management	Total scheme	LCHE152109	TBC	In Validation		
69	Junction of Green Lane with Vicarage Road, Roxwell	Junction Improvements	Concerns around bennett junction	Roxwell	Traffic Management	Total scheme	LCHE152112	£2,000	Validation recommends re-designing junction road markings.		G
70	Woodhill Road (S/O Sandon School), Sandon	Bollards to prevent verge parking	vehicles parking on footway	Sandon	Traffic Management	Total scheme	LCHE142065	£10,500	Validation - bollards/footway improvements though this could relocate parking problem further down the road towards a bend		G
71	Mayes Lane, Sporhams Lane & Butts Green Road, Sandon	Horse & Rider signs	Speed of traffic on routes used by Horses	Sandon	Traffic Management	Total scheme	LCHE152081	£3,000	Validation recommends signage improvements		G
72	Mayes Lane/Sporhams Lane/Butts Green Road, Sandon	Horse & Rider warning signs	Lack of driver awareness of horse & riders within the Parish	Sandon	Traffic Management	Total scheme	LCHE152081	£3,000	Validation - recommends signs/posts at three locations - j/w East Hanningfield Rd, j/w Woodhill Rd and vicinity nr j/w Blind Lane		G
73	King Edwards Road, South Woodham Ferrers	Traffic management improvements suitable for bus service	Speed of traffic	South Woodham Ferrers	Traffic Management	Total scheme	LCHE142013	NA	Study does not support any form of traffic calming without severe implications for local residents		R
74	Ferrers Road (Inchbonnie Road to Creekeivw Road) South Woodham Ferrers	Traffic management improvements/30 mph speed limit	Speed of traffic in 40mph limit and conflict with adjacent side roads/accesses	South Woodham Ferrers	Traffic Management	Total scheme	LCHE152106	NA	Validation - results of seven day automatic traffic count 40mph speed limit Northeast bound 30.4mph & Southwest bound 33.2mph. Good speed compliance with existing 40mph limit, a 30mph limit would have little effect on driver behaviour. Road environment not typical for a 30mph limit.		R
75	Hamberts Road and The Chase, South Woodham Ferrers	Verge protection measures	Vehicles parking on highway verges	South Woodham Ferrers	Traffic Management	Implementation	LCHE152127	NA	Validation - site visit found little evidence of verge damage, appears to be an occasional problem. More evidence of problem needed.		
76	Springfield Green, Springfield	Pedestrian crossing facility	Lack of pedestrian crossing facilities	Springfield	Traffic Management	Total scheme	LCHE142060	£40,000	Validation - PV <sup>2</sup> data 0.249x10 <sup>8</sup> , therefore upgrade to zebra crossing, will need lighting design		G
77	Pollards Green, Springfield	20 mph speed limit	Speed of traffic	Springfield	Traffic Management	Total scheme	LCHE132064	NA	Validation - good compliance with 30mph limit speed too high for 20mph, properties very close to c/way so physical calming not advised		R
78	Chancellor Avenue j/w Chelmer Village Way, Springfield	Measures to prevent vehicles losing control on roundabout and hitting adjacent wall	Vehicles losing control on roundabout	Springfield	Traffic Management	Feasibility Study	LCHE152009	£5,000	Validation - feasibility study into re-profiling camber of roundabout, though no personal injury accidents at this location		G



Chelmsford City Local Highways Panel - Potential Schemes List (Version 27)

Traffic Management

Total Value of schemes	£408,536
------------------------	----------

Ref	Location	Description	Problem	Parish	Scheme Category	Scheme stage	Cost Code	Estimated cost	Comments	2016/17 Priority Scheme	RAG
79	Lawn Lane near junction with Orford Crescent, Springfield	Improved pedestrian crossing facilities	Pedestrians having difficulties crossing	Springfield	Traffic Management	Total scheme	LCHE152002	TBC	In validation - degree of pedestrian conflict survey carried out results 0.482x10 <sup>8</sup> feeding into validation process.		
80	Springfield Library, New Bowers Way, Springfield	Signage to Library - Three locations (White Hart Lane, New Bowers Way, Beardsley Drive)	Lack of directional signs to Library	Springfield	Traffic Management	Total scheme	LCHE152056	£5,000	Validation - scheme could progress		G
81	Honeygot Lane, Stock	Speed reduction 60mph to 40mph	Speed of traffic	Stock	Traffic Management	Total scheme	LCHE142056	£8,000	Validation - in 60mph limit, mean average speeds north/northeast bound 29.7mph/25.1mph and south/south-east bound 31.7 mph/26.7mph. Speeds below 40 mph, due to embankment locating repeater signs could be problematic		A
82	High Street, Stock	Route enhancement study	Speed of traffic	Stock	Traffic Management	Feasibility	LCHE132043	£3,000	Study suggested following request for 20 mph speed limit/average speed camera		G
83	B1007 east of jw Downham Road, Stock	Speed reduction from 60 mph to 30mph	Speed of traffic	Stock	Traffic Management	Total scheme	LCHE142087	NA	Validation - speed surveys NE Golf Club Northeast bound 42.9mph & Southwest bound 44.4mph, SW Downham Road Northeast bound - 49.8mph & Southwest bound -47.4mph. 30mph speed limit not appropriate for road as few properties fronting onto road and most set back does not give drivers impression the road is inhabited. It could be possible to install a 40mph buffer but this would be for such a short distance it might not change driver behaviour. Could only go up to Golf Club.		R
84	Mill Road to jw Downham Road, Stock	Speed reduction from 60mph to 40mph	Speed of traffic	Stock	Traffic Management	Total scheme	LCHE142088	£15,000	Validation - speed survey east 33.7mph and north-west 34.7mph, good compliance with so a 40mph speed limit would make little difference	P	A
85	Brookmans Road jw Back Lane, Stock	Bollards on verge to prevent verge damage	Vehicles damaging verge	Stock	Traffic Management	Total scheme	LCHE142089	£25,000	Validation - Option 1 approach Parking partnership for junction protection parking restrictions, Option 2 reduce width of verge, install HGV overrun to allow easier turning for larger vehicles		G
86	St Marys Church, Ingatestone Road, Buttsbury	Bend improvements	Bend needs highlighting	Stock	Traffic Management	Total scheme	LCHE142090	£2,000	Validation - recent Safer Roads scheme carried out, could install Chevron sign on island to warn drivers of bend travelling south		G

Chelmsford City Local Highways Panel - Potential Schemes List (Version 27)

Traffic Management

Total Value of schemes	£408,536
------------------------	----------

Ref	Location	Description	Problem	Parish	Scheme Category	Scheme stage	Cost Code	Estimated cost	Comments	2016/17 Priority Scheme	RAG
87	Bus Stop Opposite Hyland's School, Chelmsford Road, Writtle	Pedestrian crossing improvements	lack of pedestrian crossing facilities	Writtle	Traffic Management	Total Scheme	LCHE152008	TBC	In validation		
88	Ongar Road j/w Eastview, Writtle	Feasibility study into junction carriageway improvement	Recommendation from Route Enhancement Study	Writtle	Traffic Management	Feasibility	LCHE152085	£3,000	Feasibility study recommended by Route Enhancement Study		G
89	Lordship Road/Ongar Road/The Green/Mayfield Road/Orchard Close, Writtle	Feasibility study into junction improvement	Recommendation from Route Enhancement Study	Writtle	Traffic Management	Feasibility	LCHE152086	£5,000	Recommendation from Route Enhancement Study		G
90	Lordship Road j/w Fox Burrows Lane, Writtle	Feasibility study into junction/carriageway improvement	Recommendation from Route Enhancement Study	Writtle	Traffic Management	Feasibility	LCHE152088	£5,000	Recommendation from Route Enhancement Study, suggestion is to await results of any future development on Fox Burrows Lane		G
91	Writtle College Main Access, Lordship Road, Writtle	Feasibility study into carriageway/footway /signing/lining/street lighting/verge improvements	Recommendation from Route Enhancement Study	Writtle	Traffic Management	Feasibility	LCHE152089	£5,000	Recommendation from Route Enhancement Study		G



Chelmsford City Local Highways Panel - Potential Schemes List (Version 27)

Walking

Total Value of schemes	£30,000
------------------------	---------

Ref	Location	Description	Problem	Parish	Scheme Category	Scheme stage	Cost Code	Estimated cost	Comments	2016/17 Priority Scheme	RAG
1	O/s 148, Kings Road, Chelmsford	Footway crossing verge	Pedestrian footway improvements	Chelmsford Non Parished	Walking	Total scheme	LCHE153001	£10,000	Validation recommends dropped kerb/tactile paving on both sides of road.	P	G
2	B1008, The Street, Little Waltham to Hospital Approach, Broomfield	Dropped kerbs/Tactile paving	Lack of dropped kerbs causing issues in accessing Hospital	Little Waltham	Walking	Total scheme	LCHE153003	£20,000	Validation -recommends dropped crossings/tactile paving at six locations	P	G

## Quiet Lanes

Total Value of schemes	£3,000
------------------------	--------

Ref	Location	Description	Problem	Parish	Scheme Category	Scheme stage	Cost Code	cost estimate	Comments	2016/17 Priority Scheme	RAG
1	Sporhams Lane, Sandon	Suggestion to be classified as a Quiet Lane	Narrow lane, often used as a "rat run" or short cut	Sandon	Quiet Lanes	Total Scheme	LCHE152012	TBC	In validation		
2	Swan Lane between Stock and Margaretting	Quiet Lane	Speed of traffic	Stock	Quiet Lanes	Total scheme	LCHE152005	£3,000	Validation - Speed/volume data average daily volume count is below 1000 vehicles. speeds fall below the 35mph average speeds as required by the policy. Though speeds not a self-enforcing 20mph limit but South - 26.5mph & North 27.4mph. Recommended to proceed with Quiet Lane status.		G



## Chelmsford City Local Highways Panel - Potential Schemes List (Version 27)

### Passenger Transport

Total Value of schemes	£45,000
------------------------	---------

Ref	Location	Description	Problem	Parish	Scheme Category	Scheme stage	Cost Code	Estimated cost	Comments	2016/17 Priority Scheme	RAG
1	Stop Name Chelmsford Prison, Springfield Road, Chelmsford	Real time passenger information	Lack of Real time passenger information	Chelmsford Non Parished	Passenger Transport	Total scheme	LCHE155028	£6,000	Validated by Passenger Transport team - This is a top up request to existing £8k Section 106 funding of this scheme		G
2	Stop Name Galleywood Common, Galleywood	New wooden bus stop	Replace bus stop	Galleywood	Passenger Transport	Total scheme	LCHE155027	£10,000	Validated By Passenger Transport Team		G
3	Beehive Lane jw Firecrest, Chelmsford	Improvements to junction to allow larger busses to use it	Larger buses are damaging the junction	Great Baddow	Passenger Transport	Feasibility	LCHE155019	£3,000	Validation recommends feasibility study into junction improvements. Possible Section 106 funding available from Marconi Site CHL/2419/04		A
4	Havengore, (S/O 2 Wallasea Gardens to S/O 104 Falmouth Road) Springfield	To relocate bus stop (stop ID AA151Y) from narrow footpath at S/O 2 Wallasea Gardens to area of footpath/verge at S/O 104 Falmouth Road which will also allow for a shelter	Waiting passengers can block narrow footpath	Springfield	Passenger Transport	Total scheme	LCHE155020	£16,000	Will require consultation with residents, removing existing raised kerbs/pole and making good. Then installing new raised kerbs and hard stand/shelter		G
5	Stop Name Woodham Hall, Main Road, Woodham Ferrers	New wooden bus stop	Replace bus stop	Woodham Ferrers	Passenger Transport	Total scheme	LCHE155026	£10,000	Validated By Passenger Transport Team		G

## Chelmsford City Local Highways Panel - Potential Schemes List (Version 27)

### School Crossing Patrols

<b>Total Value of schemes</b>	<b>£3,000</b>
-------------------------------	---------------

Ref	Location	Description	Problem	Requested by	Parish	Scheme Category	Scheme stage	Cost Code	Estimated cost	2016/17 Priority Scheme	RAG
1	Kings Road Primary School on Corporation Road, Chelmsford	Bollards on service road to be relocated to prevent parking	Crossing Patrol improvement	School Crossing Patrol team	Chelmsford Non Parished	School Crossing Patrols	Total scheme	LCHE146003	£3,000		<b>G</b>
2	Victoria Road, near Riverside Leisure Centre, Chelmsford	Drainage improvements dropped kerbs	Standing water after rainfall affecting operation of school crossing patrol team	School Crossing Patrol team	Chelmsford Non Parished	School Crossing Patrols	Total scheme	LCHE156006	TBC		



## Chelmsford City Local Highways Panel - Potential Schemes List (Version 27)

### Public Rights of Way

<b>Total Value of schemes</b>	<b>£157,000</b>
-------------------------------	-----------------

Ref	Location	Description	Problem	Parish	Scheme Category	Scheme stage	Cost Code	Estimated cost	Comments	2016/17 Priority Scheme	RAG
1	PROW Footpath 95 Chelmsford	Investigation on-going into installing drainage in existing surfaced city centre footpath	PROW improvement	Chelmsford Non Parished	Public Rights of Way	Total scheme	LCHE148002	TBC	Validated by Prow team		
2	PROW Footpath 13 Good Easter	Investigation on-going into revetment between River Can and existing footpath	PROW improvement	Good Easter	Public Rights of Way	Total scheme	LCHE148001	TBC	Validated by Prow team		
3	Great Baddow Footpaths 11, 12 & 67	Clear blocked ditches/culverts, removed vegetation, level/edge and lay all weather surfacing	Unsurfaced paths now well used urban footpaths within housing estates, provides access to schools/shops/bus routes.	Great Baddow	Public Rights of Way	Total scheme	LCHE158008	£22,000	Validated by Prow team	P	G
4	PRoW network, Great & Little Leighs	Improvement measures to PRoW signage and 18 bridge improvements	More signs to keep walkers on PRoW network and bridge improvement to British Accessibility Standards	Great Leighs	Public Rights of Way	Total scheme	LCHE158005	£14,000	Validated by Prow team		G
5	Great Leighs Footpath 41 (Part of The Essex Way)	Surfacing and Drainage improvements	Water meadow/natural springs affecting use of well used PRoW	Great Leighs	Public Rights of Way	Total scheme	LCHE158006	£28,000	Validated by Prow team		G
6	Little Waltham Footpath 28	Surfacing and Drainage improvements - 365m length and average 2m width	Path is routinely very muddy throughout the year	Little Leighs	Public Rights of Way	Total scheme	LCHE158007	£21,000	Validated by Prow team		G
7	Bridleway 11 Margaretting	To create a link between Bridleway 11 and Bridleway 44/54	Bridleway 11 cut off by A12	Margaretting	Public Rights of Way	Total scheme	LCHE158004	£35,000	Validated by Prow team		G
8	Footpath 63, South Hanningfield	Footpath surface improvements with planings	Footpath surface in need of improvement	South Hanningfield	Public Rights of Way	Total scheme	LCHE158010	£7,000	Validated by Prow team		G

**Chelmsford City Local Highways Panel - Potential Schemes List (Version 27)**

**Public Rights of Way**

<b>Total Value of schemes</b>	<b>£157,000</b>
-------------------------------	-----------------

Ref	Location	Description	Problem	Parish	Scheme Category	Scheme stage	Cost Code	Estimated cost	Comments	2016/17 Priority Scheme	RAG
9	Footpath 30 Stock, Chelmsford	80m plastic boardwalk/vegetation clearance	High water table making part of the route very boggy	Stock	Public Rights of Way	Total scheme	LCHE158009	£15,000	Validated by Prow team		G
10	Bridleway 10, Mill Lane Ramsden Heath	Bridleway 10 West Hanningfield Surface Improvements	Boggy and uneven surface in sections makes bridleway a difficult route to follow for some users	West Hanningfield	Public Rights of Way	Total scheme	LCHE158003	£15,000	Validated by Prow team		G



Chelmsford City Local Highways Panel - Potential Schemes List (Version 27)

Cycling

Total Value of schemes	£590,140
------------------------	----------

Ref	Location	Description	Problem	Parish	Scheme Category	Scheme stage	Cost Code	Estimated cost	Comments	2016/17 Priority Scheme	RAG
1	Westway, Chelmsford	CH35 - Off Road route on western footway between A141 and Writtle Road - design previously funded	Cycling route improvement	Chelmsford Non Parished	Cycling	Total scheme	LCHE144009	£150,000	Cycling team looking at sources of funding. Design previously shared with Panel		G
2	High Street, Chelmsford	Panel has funded feasibility study into south-north cycling through Chelmsford avoiding High Street - study results awaited	Cycling route improvement	Chelmsford Non Parished	Cycling	Total scheme	LCHE144011	TBC	Awaiting results of feasibility study		
3	Longstomps Cycleway, Chelmsford	Create shared footway/cycleway	Improvements to National Cycle Route 13, along busy section of Longstomps	Chelmsford Non Parished	Cycling	Total scheme	LCHE154003	£100,000			G
4	West Park, Chelmsford	Install a 3.5m replacement bridge on existing alignment	Design of replacement footbridge currently not part of Highways Network, which would need to be addressed	Chelmsford Non Parished	Cycling	Design	LCHE154006	£65,000			G
5	Lawn Lane/Waveney Drive, Chelmsford	Unsegregated shared footway/cycleway & advisory cycle lane	Lack of connectivity/ continuity of cycle network into Springfield	Chelmsford Non Parished	Cycling	Implementation	LCHE154010	£40,000			G
6	New London Road Subway at Parkway, Chelmsford	Scheme to allow cyclists to cross Parkway	Subway not suitable for cyclists	Chelmsford Non Parished	Cycling	Total scheme	LCHE154011	NA	Scheme to be considered as part of Chelmsford Cycling Action Plan		
7	Chelmer Park Cycle Route, Beehive Lane, Galleywood	Shared footway/cycleway on Beehive Lane between Skinners Lane and Chelmer Car Park	Lack of cycle network connectivity to Galleywood	Galleywood	Cycling	Design	LCHE154002	£227,000	Feasibility study - Option 1 - 3m wide shared use footway (£227,000), Option 2 - 3m wide unbound cycle track (£75,000) but will require Land Acquisition and any costs associated with it		G
8	Writtle Route, Writtle	Solar lights/studs at 10m intervals	Mainly rural unlit route	Writtle	Cycling	Total scheme	LCHE154005	£8,140			G

## Chelmsford City Local Highways Panel - Potential Schemes List (Version 27)

### Safer Roads

<b>Total Value of schemes</b>	<b>£277,600</b>
-------------------------------	-----------------

Ref	Location	Description	Parish	Scheme Category	Scheme stage	Cost Code	Allocated Budget	Comments	2016/17 Priority Scheme	RAG
1	B1137 Main Road j/w Church Road Boreham	Review of speed limits and study into traffic calming/speed reduction measures	Boreham	Safer Roads	Total scheme	LCHE151011	£90,000	Draft design available in Appendix 2, estimated cost. %FYRR136		G
2	A1060 Parkway/Odeon RAB (j/w High Bridge Road), Chelmsford	Improvements to cycle/pedestrian facility at RAB	Chelmsford Non Parished	Safer Roads	Total scheme	LCHE151013	£14,000	See Appendix 2 for Draft Design. %FYRR 307	P	G
3	A131 Braintree Road, RAB The Crescent Main Road/Goodmans Lane, Great Leighs	Review/improvement of approach/departure carriageway lining/signing	Great Leighs	Safer Roads	Total scheme	LCHE151014	£1,500	See Appendix 2 for Draft Design. Recommended to consider Option 1 to improve road markings to help circulatory/lane discipline £1,500%FYRR 73 Option 2 investigate road widening £30,0000.		G
4	A132 Runwell Road j/w A130 on/off slip, Runwell	Red light camera on north-east approach to signals	Runwell	Safer Roads	Total scheme	LCHE151015	£83,000	See Appendix 2 - Draft Design - On going maintenance would be supported by Essex Safety Camera Partnership, Camera - £18k, but if required Maintenance hard standing £25k and Vehicle Restraint System £40k. %FYRR101		G



## Chelmsford City Local Highways Panel - Potential Schemes List (Version 27)

### Safer Roads

<b>Total Value of schemes</b>	<b>£277,600</b>
-------------------------------	-----------------

Ref	Location	Description	Parish	Scheme Category	Scheme stage	Cost Code	Allocated Budget	Comments	2016/17 Priority Scheme	RAG
5	Church Lane junction with Lawn Lane, Springfield	Investigate cycle link improvements and junction design	Springfield	Safer Roads	Total scheme	LCHE151003	£58,000	Scheme in design, original estimate £58k - Panel agreed this as a Priority Scheme for 2016/17 at their September 2015 meeting	P	G
6	B1007 High Street near junction with Common Road, Stock	Investigate widening footway and clearing vegetation	Stock	Safer Roads	Total scheme	LCHE151004	£30,000	Scheme design previously shared with Panel.	P	G
7	Lordship Road, Writtle	Signage for College and tea rooms	Writtle	Safer Roads	Total scheme	LCHE151016	£1,100	Report previously shared with Panel in January 2016 - Signage improvements on northbound direction. %FYRR106		G

# Chelmsford City Local Highways Panel

March 2016

## Appendix 2 –Potential Schemes

### Safer Roads Schemes

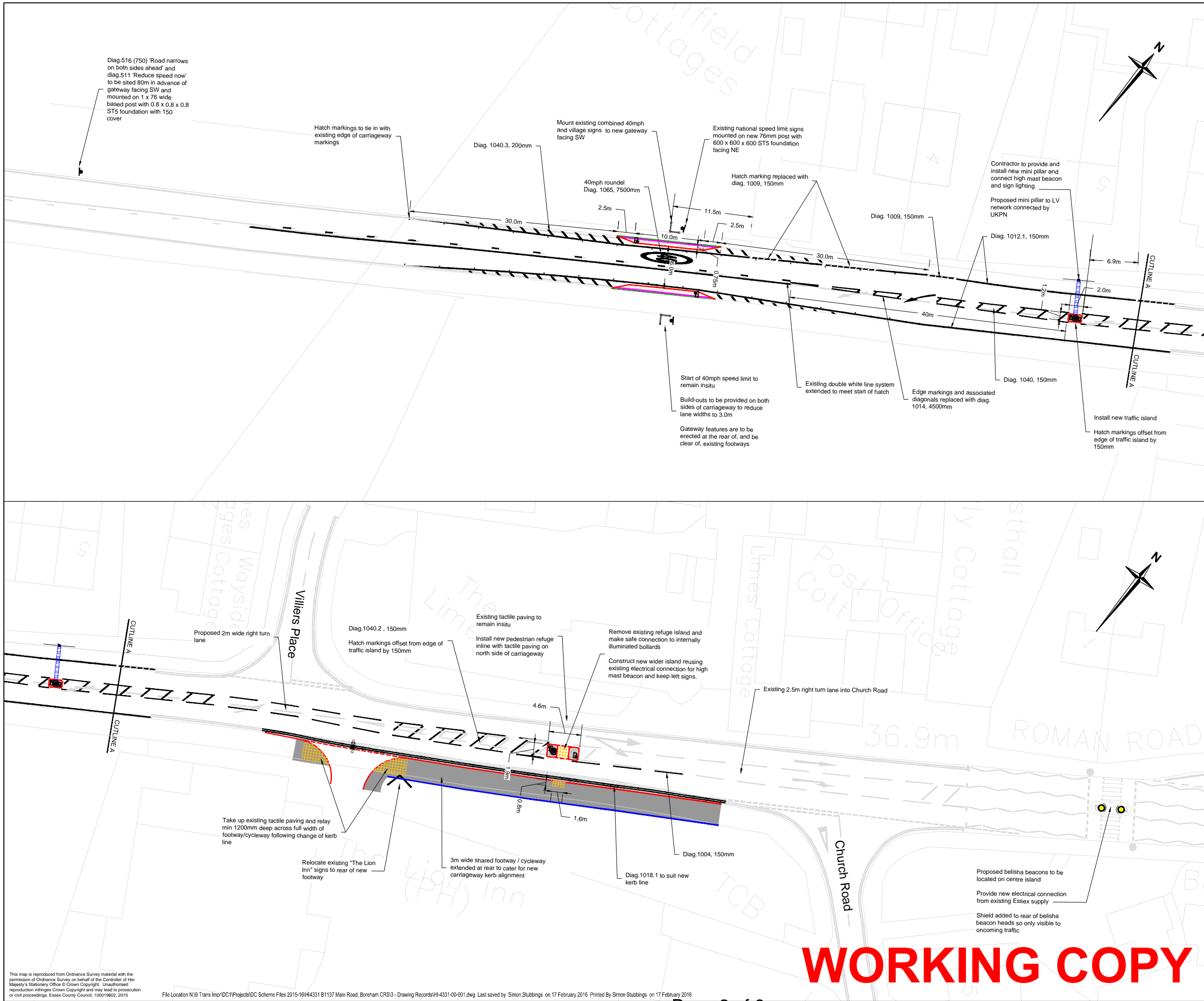
**Page 2** - LCHE151011 – B1137 Main Road, j/w Church Road, Boreham  
Safer Roads Schemes 2016/17- Proposed Speed limit and traffic calming review  
Draft design

**Page 3** - LCHE151013 – A1060 Parkway/Odeon Roundabout, Chelmsford  
Safer Roads Schemes 2016/17 - Proposed Cycling Improvements  
Draft Design

**Page 5** - LCHE151014 – A131 Braintree Road Roundabout with The Crescent, Main Road, Goodmans Lane Great Leighs  
Safer Roads Schemes 2016/17 - Proposed Survey work and review of approach/departure signing/lining  
Draft Design

**Page 6** – LCHE151001 – A132 Runwell Road j/w A130 Northbound On slip, Runwell  
Safer Roads Schemes 2016/17 – Red light camera on north-east approach to signals  
Draft Design





- Notes**
- Do not scale.
  - All signs and road markings to be in accordance with the 'Traffic Signs Regulations and General Directions 2002' and any amendment thereafter.
  - All road markings within extent of general arrangement to be refreshed. Conflicting road markings removed as directed by project engineer.
  - All street furniture is to have lateral clearance of 450 to edge of carriageway.
  - Signs to be mounted at 2.1m above finished surface unless otherwise stated.
  - Care must be taken during all excavations due to the presence of underground utilities. Refer to statutory undertakers' plant returns. Before commencing work, mark out all plant to avoid conflict with proposed alignment.
  - 'New Road Layout Ahead' signs with a 50mm x height to diagram 7014 to be provided 50m in advance of works for a period of 3-months.

- Key**
- PCC HB2 kerb (255 x 125 with 125mm face) set into existing pavement as per ECC folio dwg. EB105
  - PCC BN kerb (255 x 125 with 0-6mm face including droppers where appropriate) set into existing pavement as per ECC folio dwg. EB105
  - PCC flat top edging (150 x 50) as per ECC folio dwg. EB105
  - Replace existing kerb with PCC square kerb (255 x 125 with upstand to match existing) set into existing pavement as per ECC folio dwg. EB105
  - ACO drain set into existing pavement
  - New footway construction - 25mm AC6 dense surf 100/150; 100mm AC20 dense bin 100/150; and 150 Type 1 granular material (to BS EN 13108-01)
  - New carriageway construction - 40mm AC20 close surf 100/150 PSV55; 60mm AC20 bin 40/60; 200mm AC32 HDM base 40/60 (to BS EN 13108-01); and min 200mm Type 1 granular material to Clause 803
  - Gateway build-out construction - 80mm concrete block to BS EN 1338 laid on 30mm sharp sand to BS EN 12620; 150mm Type 1 granular material to Clause 803
  - Reinstatement following ducting
  - Traffic island construction to be HB2 kerbs (straight and 305 quadrants) set into existing pavement as per ECC folio dwg EB105 and backfilled with ST3 concrete (brushed finish and aris trowel edges)
  - Buff colour tactile paving (400 x 400 x 63) on 30mm sand cement mix (max 1:20 gradient where provided at pedestrian crossing point)
  - Existing gully removed and back-filled with ST2; existing connection reused for new gully connection
  - Proposed 450Ø road gully, 150Ø connection with type Z surround
  - Proposed Glasdon Gateway (white) 1.5m wide, 2.3m high - L-shaped Model
  - Proposed internally illuminated keep left bollard (diag. 610) to be Pusey Diamond Solaboll or similar approved; rear of bollard to be retro-reflective
  - Proposed refuge beacon with externally illuminated high mounted back-to-back diag. 610 'Keep left' signs (450mm)
  - Proposed red uni directional stick on road studs at 5m centres

Rev.	Date	Description of revision	Drawn	Checked	Reviewed/Approved
<b>CHECK PRINT</b>					

**DRAWING STATUS**

**PRELIMINARY DESIGN**

Mark Rowe, Service Director, Highways  
 County Hall A2 Annex, Chelmsford, CM1 1QH  
 Tel: 0845 6037631 © Essex County Council

**SCHEME TITLE**

**MAIN ROAD, BOREHAM  
 2016/17 CRS ADV. DESIGN  
 LCHE141004**

**DRAWING TITLE**

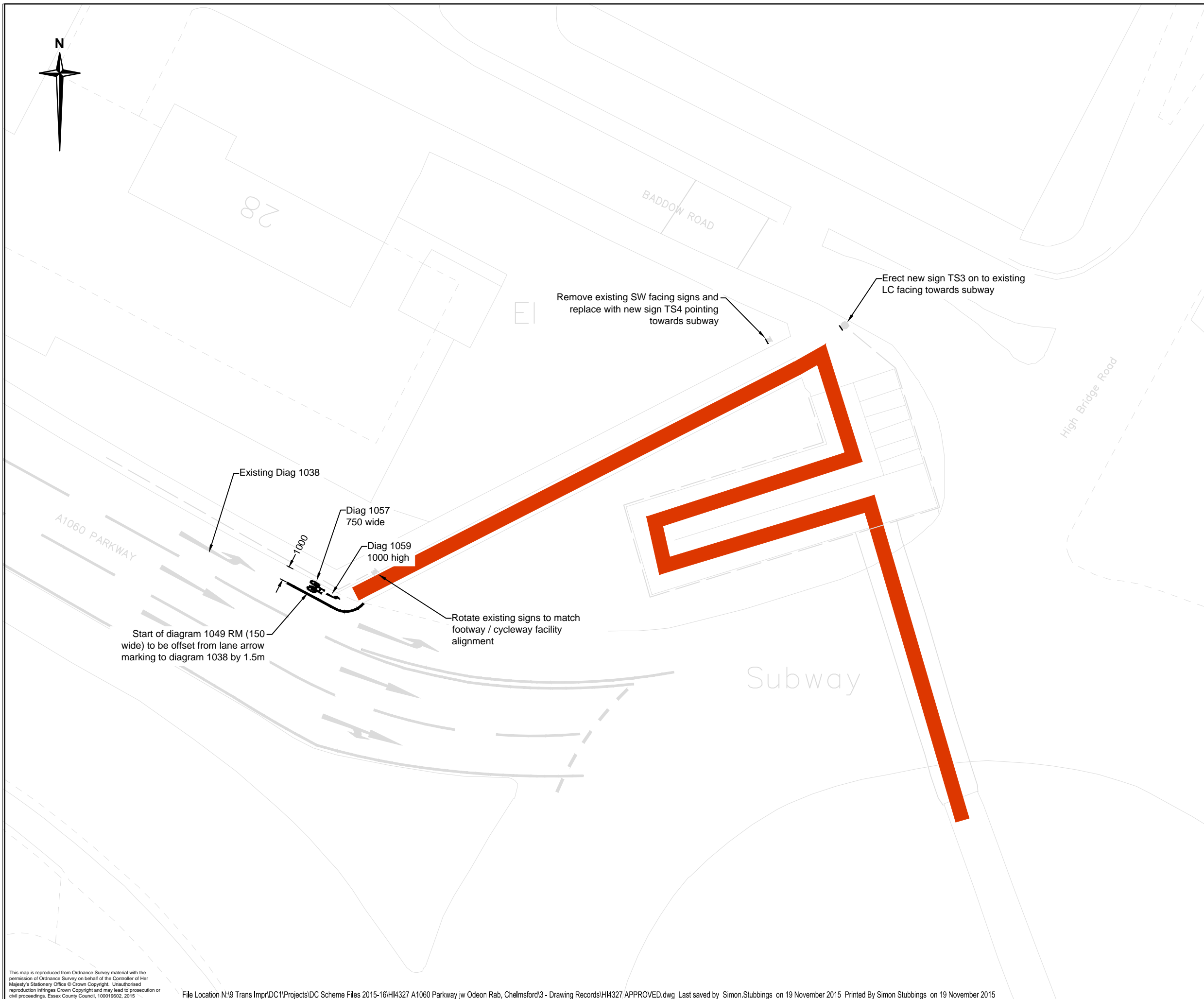
**GENERAL ARRANGEMENT**

DESIGNED	DRAWN	CHECKED	REVIEWED	APPROVED
SL	SL	SL	SL	SL
DATE	DATE	DATE	DATE	DATE
XXX 15	XXX 15	XXX 15	XXX 15	XXX 15

DRAWING UNITS U.N.O.	SCALE AT A1 (841x594mm)
DIMENSIONS IN MILLIMETRES	1:250
LEVELS IN METRES	
DRAWING No.	REV.
HI-4331-00-001	-

**WORKING COPY**

This map is reproduced from Ordnance Survey material with the permission of Ordnance Survey on behalf of the Controller of Her Majesty's Stationery Office © Crown Copyright. Unauthorised reproduction infringes Crown Copyright and may lead to prosecution or civil proceedings. Essex County Council, 100019622, 2015



- Notes**
1. Do not scale.
  2. All diagram numbers refer to the Traffic Signs Regulations and General Directions 2002, and any amendment thereafter.
  3. Mounting height to be a minimum of 2.4m to underside of sign.
  4. All signs to have minimum clearance of 450mm to edge of carriageway.

- Key**
- New post or sign
  - Existing post and sign
  - New road marking
  - Existing pedestrian guardrail
  - Off carriageway cycle route

- Drawing set**
1. HI-4327-100-001 - Location Plan
  2. HI-4327-000-001 - Odeon Rab North General Arrangement
  3. HI-4327-000-002 - Odeon Rab South General Arrangement
  4. HI-4327-1200-001 - Sign Schedule

Rev.	Date	Description of revision	Drawn	Checked	Reviewed	Approved

DRAWING STATUS

**DETAILED DESIGN**



Mark Rowe, Service Director, Highways  
 County Hall A2 Annex, Chelmsford. CM1 1QH  
 Tel: 0845 6037631 © Essex County Council

SCHEME TITLE

**A1060 PARKWAY, CHELMSFORD  
 2016/17 CRS ADV. DESIGN  
 LCHE141004**

DRAWING TITLE

**ODEON RAB NORTH  
 GENERAL ARRANGEMENT**

DESIGNED	DRAWN	CHECKED	REVIEWED	APPROVED
SLS	SLS	JAL	SLS	MBS
DATE	DATE	DATE	DATE	DATE
NOV 15	NOV 15	NOV 15	NOV 15	NOV 15

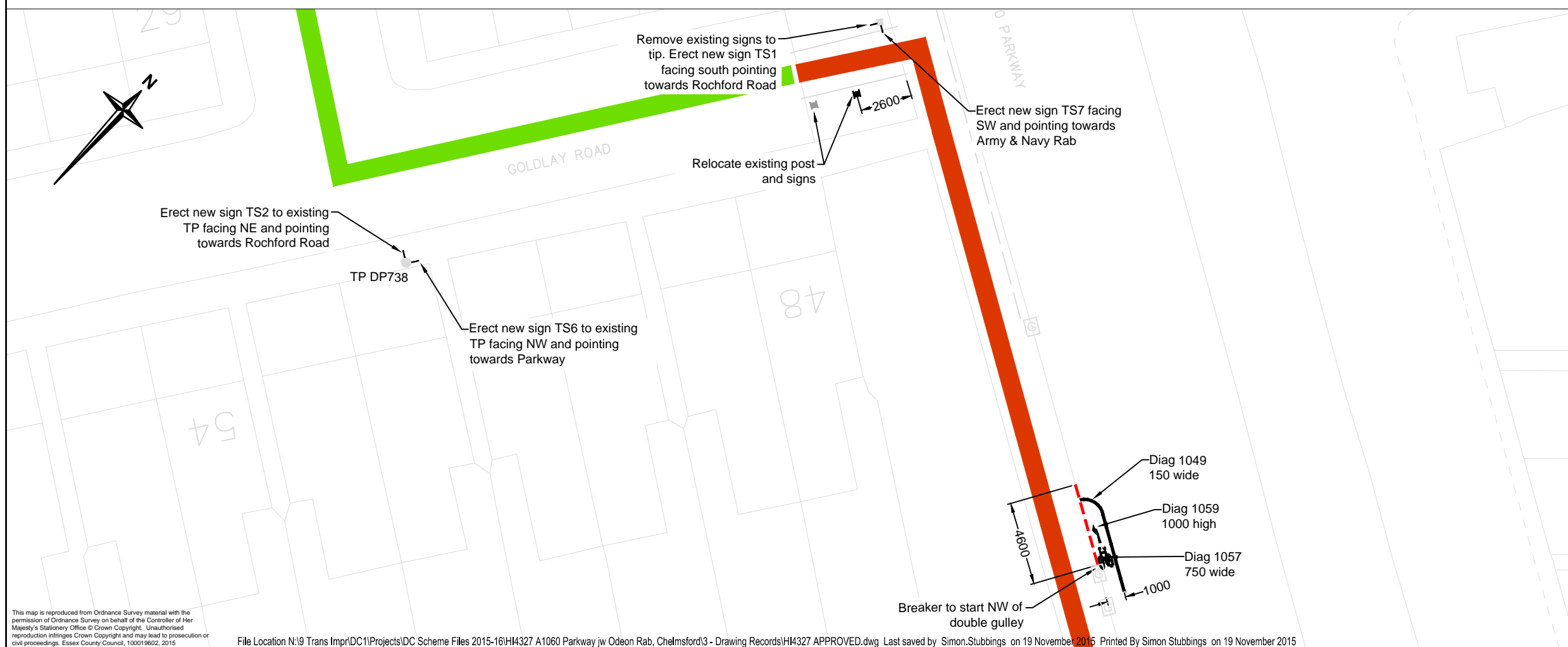
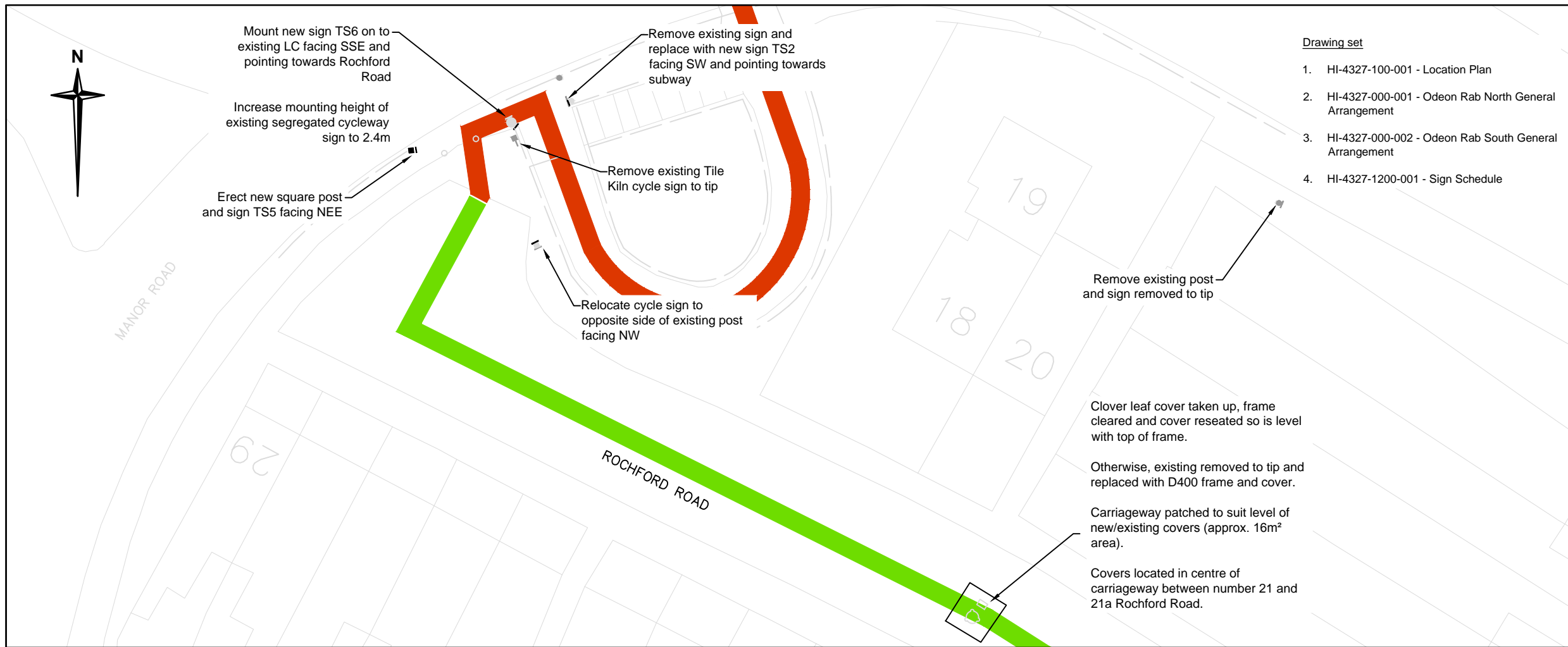
DRAWING UNITS U.N.O.  
 DIMENSIONS IN MILLIMETRES  
 LEVELS IN METRES

SCALE AT A3 (420x297mm)  
**1:250**

DRAWING No. **HI-4327-000-001** REV. **-**

This map is reproduced from Ordnance Survey material with the permission of Ordnance Survey on behalf of the Controller of Her Majesty's Stationery Office © Crown Copyright. Unauthorised reproduction infringes Crown Copyright and may lead to prosecution or civil proceedings. Essex County Council, 100019602, 2015





**Drawing set**

1. HI-4327-100-001 - Location Plan
2. HI-4327-000-001 - Odeon Rab North General Arrangement
3. HI-4327-000-002 - Odeon Rab South General Arrangement
4. HI-4327-1200-001 - Sign Schedule

**Notes**

1. Do not scale.
2. All diagram numbers refer to the Traffic Signs Regulations and General Directions 2002, and any amendment thereafter.
3. Mounting height to be a minimum of 2.4m to underside of sign.
4. All signs to have minimum clearance of 450mm to edge of carriageway.
5. Orientation of signs to be agreed on site with Project Engineer.
6. Post foundations to be 600 x 600 x 600 ST5 concrete with 150mm cover.
7. All posts to be cut and capped to 50mm of top sign face.
8. Verge to be made good with top soil and seed. Footway/carriageway to be made good with similar material to existing.
9. Where referenced permission is to be obtained from BT or ECC Street Lighting Team before mounting signs on to existing TP or LC respectively.

**Key**

- PCC kerb to include droppers and BN (255 x 125 with 0-6mm face) set into existing pavement as per ECC folio drawing EB105
- New post or sign
- Existing post or sign to be removed to tip
- New road marking
- - - Existing pedestrian guardrail
- Off carriageway cycle route
- On carriageway cycle route

Rev.	Date	Description of revision	Drawn	Checked	Reviewed	Approved

DRAWING STATUS  
**DETAILED DESIGN**



Mark Rowe, Service Director, Highways  
County Hall A2 Annex, Chelmsford. CM1 1QH  
Tel: 0845 6037631 © Essex County Council

SCHEME TITLE  
**A1060 PARKWAY, CHELMSFORD  
2016/17 CRS ADV. DESIGN  
LCHE141004**

DRAWING TITLE  
**ODEON RAB SOUTH  
GENERAL ARRANGEMENT**

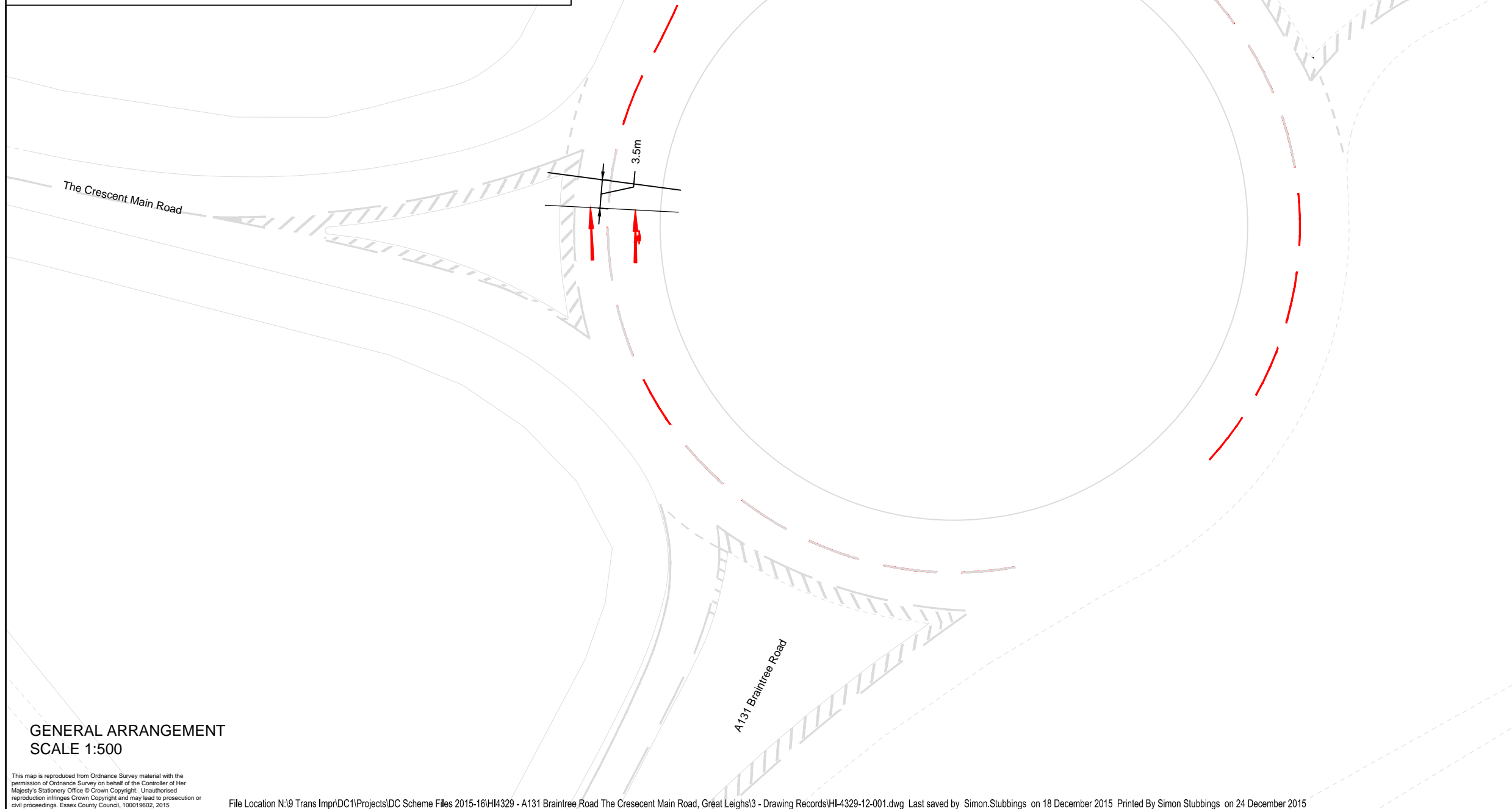
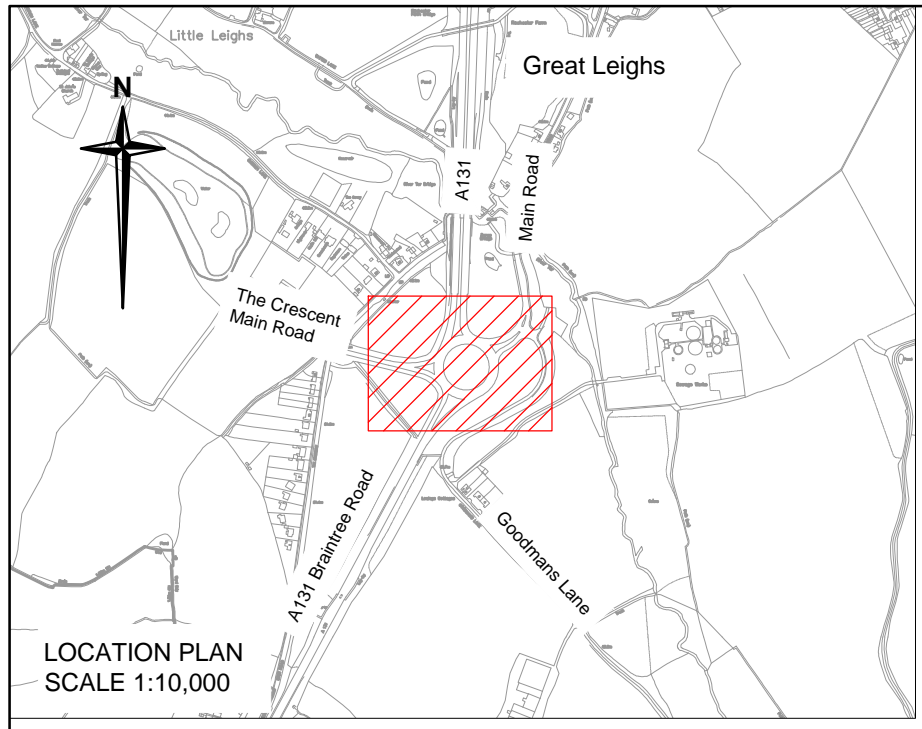
DESIGNED	DRAWN	CHECKED	REVIEWED	APPROVED
SLS	SLS	JAL	SLS	MBS
DATE	DATE	DATE	DATE	DATE
NOV 15	NOV 15	NOV 15	NOV 15	NOV 15

DRAWING UNITS U.N.O.  
DIMENSIONS IN MILLIMETRES  
LEVELS IN METRES

SCALE AT A3 (420x297mm)  
1:250

DRAWING No. **HI-4327-000-002** REV. -

This map is reproduced from Ordnance Survey material with the permission of Ordnance Survey on behalf of the Controller of Her Majesty's Stationery Office © Crown Copyright. Unauthorised reproduction infringes Crown Copyright and may lead to prosecution or civil proceedings. Essex County Council, 1000196002, 2015



- Notes**
1. Do not scale.
  2. Circulatory road markings to align with existing.
  3. All road markings are to be in accordance with TSRGD 2002 and subsequent amendments.
  4. All lane, hazard and give-way markings to be refreshed within extent of General Arrangement.

- Key**
- Area of interest
  - Existing road markings
  - New marking to diag. 1004.1 - Hazard warning line - 6m mark, 3m gap, 150mm wide
  - New marking to diag. 1038 - Lane arrow - 6m in length - markings to be positioned centrally within lane

Rev.	Date	Description of revision	Drawn	Checked	Reviewed	Approved

DRAWING STATUS  
**DETAILED DESIGN**



Mark Rowe, Service Director, Highways  
County Hall A2 Annex, Chelmsford. CM1 1QH  
Tel: 0845 6037631 © Essex County Council

SCHEME TITLE  
**A131 BRAintree RD J/W  
GOODMANS LN, GT LEIGHS  
2016/17 CRS ADV. DESIGN  
LCHE141004**

DRAWING TITLE  
**CHECK PRINT  
ROAD MARKINGS**

DESIGNED	DRAWN	CHECKED	REVIEWED	APPROVED
SLS	SLS	PN	SLS	MBS
DATE DEC 15	DATE DEC 15	DATE DEC 15	DATE DEC 15	DATE DEC 15

DRAWING UNITS U.N.O.  
DIMENSIONS IN MILLIMETRES  
LEVELS IN METRES

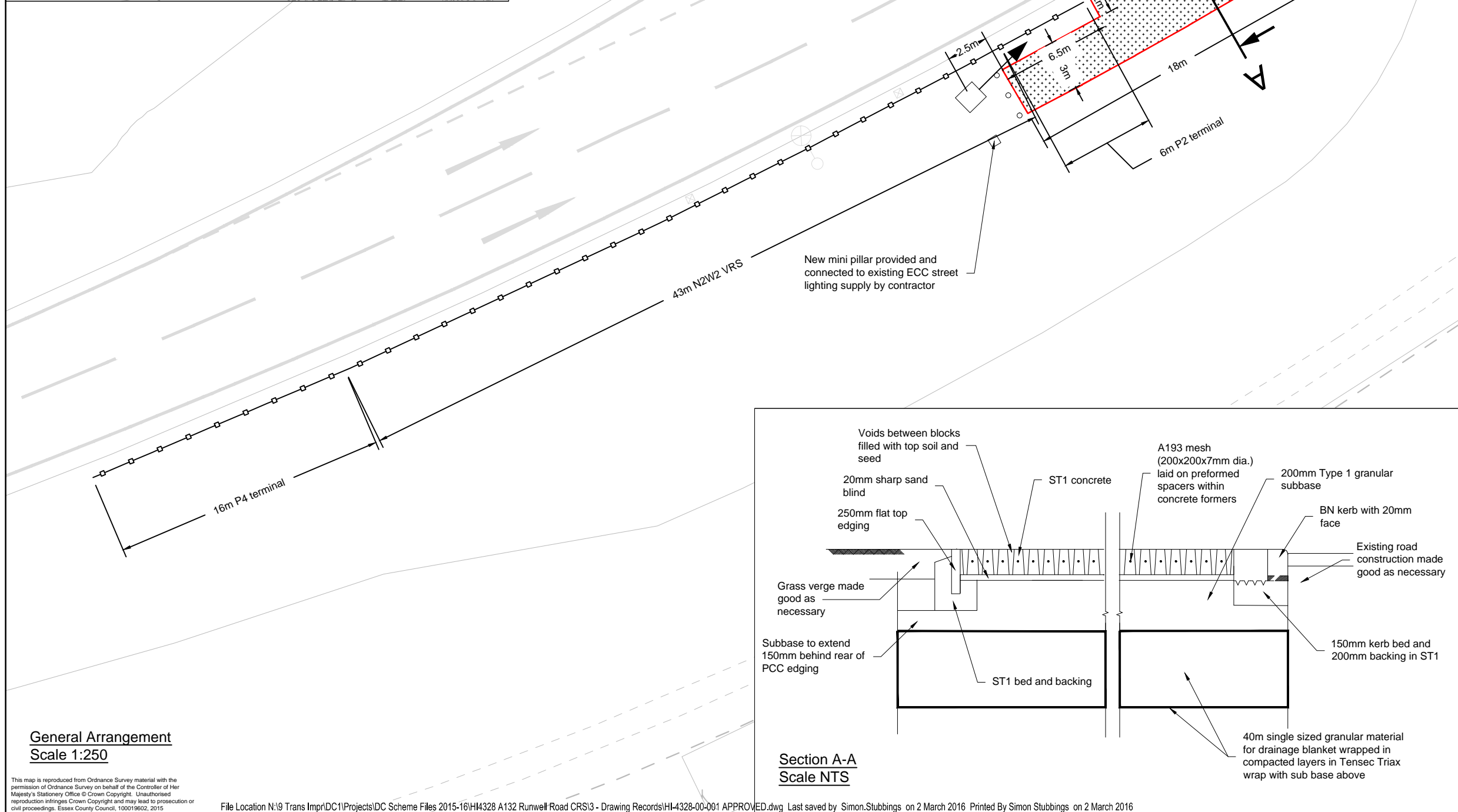
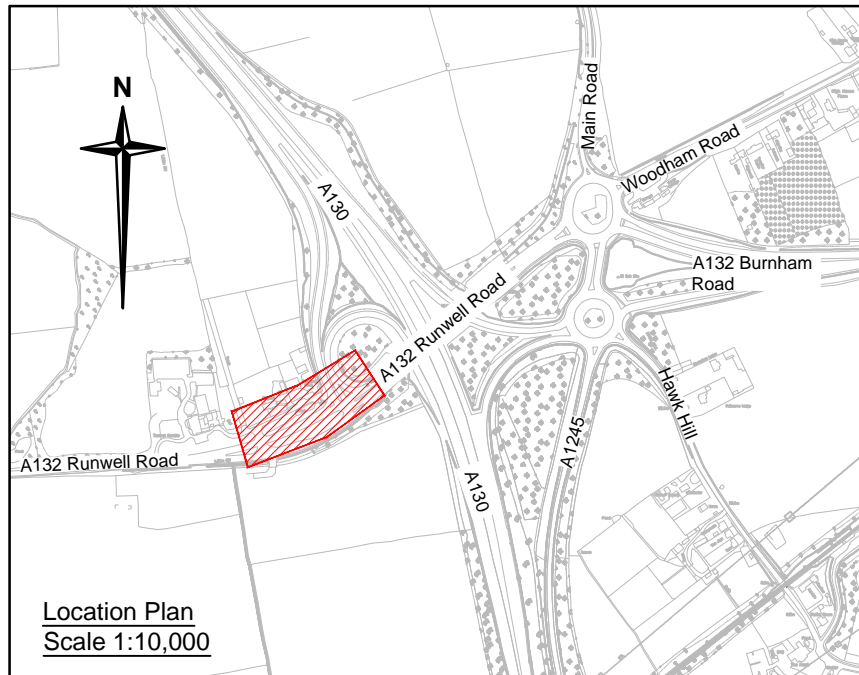
SCALE AT A3 (420x297mm)  
**AS SHOWN**

DRAWING No.  
**HI-4329-12-001**

REV.  
-

This map is reproduced from Ordnance Survey material with the permission of Ordnance Survey on behalf of the Controller of Her Majesty's Stationery Office © Crown Copyright. Unauthorised reproduction infringes Crown Copyright and may lead to prosecution or civil proceedings. Essex County Council, 100019602, 2015





- Notes**
- Do not scale.
  - CBR test to be conducted on formation to establish depth of drainage blanket required.
- CBR 4%+ 150mm thick  
CBR 2-4% 250-200mm thick  
CBR < 2% 300+mm thick
- Key**
- Site location
  - Grass Concrete Limited (GC1) or similar approved - approx. 74.5m<sup>2</sup>:
  - PCC 250 flat top edging (approx. 34.5m)
  - PCC BN Kerb (255x125) with 20mm face including droppers (approx. 13m)
  - N2W2 Vehicle Restraint System incl. 1 x P4 (16m) and 1 x P2 (6m) terminal ends
  - Proposed safety camera (to be installed and calibrated by Serco/Cubic)
  - Proposed bollard (Glasdon Admiral or similar approved) x 3 at 1.5m centres
  - Existing lamp column
  - Existing ITS chamber
  - Existing traffic signal

Rev.	Date	Description of revision	Drawn	Checked	Reviewed	Approved

DRAWING STATUS

**OUTLINE DESIGN**



Mark Rowe, Service Director, Highways  
County Hall A2 Annex, Chelmsford. CM1 1QH  
Tel: 0845 6037631

© Essex County Council

**A132 RUNWELL ROAD J/W A130  
N/B ONSLIP  
2016/17 CRS ADV. DESIGN  
LCHE151001**

DRAWING TITLE

**GENERAL ARRANGEMENT**

DESIGNED	DRAWN	CHECKED	REVIEWED	APPROVED
SLS	SLS	PN	SLS	MBS
DATE	DATE	DATE	DATE	DATE
290216	290216	010316	010316	010316
DRAWING UNITS U.N.O. DIMENSIONS IN MILLIMETRES LEVELS IN METRES				SCALE AT A3 (420x297mm) AS SHOWN
DRAWING No. <b>HI-4328-00-001</b>				REV. -

This map is reproduced from Ordnance Survey material with the permission of Ordnance Survey on behalf of the Controller of Her Majesty's Stationery Office © Crown Copyright. Unauthorised reproduction infringes Crown Copyright and may lead to prosecution or civil proceedings. Essex County Council, 100019602, 2015

### Chelmsford City Highway Rangers - Works Summary February 2016

Ref. No.	ECC Job	Date	Parish	Street	Works	Date Completed
1		CCC	Ramsden Heath	Park Lane	Street furniture maintenance	01/12/2015
2		CCC	Chelmsford	High Street	Street furniture maintenance	01/12/2015
3			No Highway Rangers			02 to 04/12/2015
4		CCC	Sandon	Whole Parish	Sign maintenance - Clean/Align /Tighten signs	07/12/2015
5		CCC	Little Baddow	Whole Parish	Sign maintenance - Clean/Align /Tighten signs	07/12/2015
6		CCC	Chelmsford	Depot	Depot maintenance on equipment	08/12/2015
7		CCC	Broomfield	65 School Lane	Repair damaged grassed area	09/12/2015
8		CCC	Springfield	Havengore	Sign maintenance - Clean/Align /Tighten signs	09/12/2015
9		CCC	Chelmsford	Lawn Lane	Cut back vegetation from footway	10/12/2015
10		CCC	Springfield	Henniker Gate	Remove branches overgrown on footway	10/12/2015
11		CCC	Great Baddow	Noakes Place	Remove fly posters	11/12/2015
12		CCC	Chelmsford	Danbury	Remove dead deer	11/12/2015
13		CCC	Chelmsford	Brookhurst Close	Cut back overhanging vegetation allow for sweeper	11/12/2015
14		CCC	Writtle	Lodge Road	Cut back around street furniture and signs	11/12/2015
15		CCC	Clacton	Stephenson Road	Disposal of fly-tipped tyres x 2 loads	14/12/2015
16			Highway Rangers on leave			15/12/2015
17		CCC	Springfield	Golden Acres	Cut back brambles/overgrown vegetation from footway	16/12/2015
18		CCC	Bicknacre	Leighams Road	Cut back vegetation from footway	16/12/2015
19		CCC	South Woodham Ferrers	Tanner Way/Station Approach	Cleared footway leaves & sweeper attended	17/12/2015
20	566	17/12/2015	Ramsden Heath	2 Bird Close	Reset kerb	18/12/2015
21		CCC	Chelmsford	Depot - Freighter House	Depot training on equipment	18/12/2015
22		CCC	Chelmsford	Stump Lane	Install street furniture	21/12/2015
23		CCC	Springfield	Harness Close	Cut back vegetation from footway	21/12/2015
24		CCC	Springfield	Golden Acres	Cut back brambles/vegetation from footway	21/12/2015
25		CCC	Chelmsford	Tamar Rise	Install no fly tipping sign	22/12/2015
26		CCC	Chelmsford	Church Lane/Lawn Lane	Install street furniture	22/12/2015
27		CCC	Chelmsford	Springfield Green	Install street furniture	22/12/2015



### Chelmsford City Highway Rangers - Works Summary February 2016

Ref. No.	ECC Job	Date	Parish	Street	Works	Date Completed
28	CCC		Chelmsford	Springfield Green	Relocate litter bin to entrance of park	22/12/2015
29	CCC		Great Waltham	Maldon Rd/Mashbury Rd/Chatham Hall Lane	Clear fly tips	23/12/2015
30	CCC		Chelmsford	Braemar Avenue	Sign maintenance - Clean/Align /Tighten signs	24/12/2015
31	CCC		Chelmsford	Depot - Freighter House	Clean down/ repairs machinery, equipment	24/12/2015
32				CHRISTMAS DAY		25/12/2015
33				BOXING DAY		26/12/2015
34	CCC		East Hanningfield	East Hanningfield	Clean list of signs requested by parish council	29/12/2015
35	CCC		Springfield	Saddle Rise	Cut back overgrown vegetation from footway	30/12/2015
36	CCC		Chelmsford	Various	Clear out acco drains	31/12/2015
37	CCC		Writtle	Ongar Road	Cut back vegetation from footway	04/01/2016
38	CCC		Springfield	Begonia Close	Sign maintenance - Clean/Align /Tighten signs	05/01/2016
39	CCC		Springfield	Begonia Close	Sign maintenance - Clean/Align /Tighten signs	05/01/2016
40				Highway Rangers on Annual Leave		06 to 21/01/2016
41	CCC		Boreham	Drovers Way	Machinery / equipment check repairs	22/01/2016
42	CCC		South Woodham Ferrers	B1012 Burnham Road	Cut back vegetation from footway, reclaim footway	25/01/2016
43	CCC		South Woodham Ferrers	B1012 Burnham Road	Cut back vegetation from footway, reclaim footway	26/01/2016
44	CCC		South Woodham Ferrers	B1012 Burnham Road	Cut back vegetation from footway, reclaim footway	27/01/2016
45	CCC		Bicknacre	Bicknacre Road north of j/w Peartree Lane	Cut back soil grass from footway, reclaim footway	28/01/2016
46	CCC		Galleywood	Opp 40 Markland Close	Cut back hedge, sweep	28/01/2016
47	CCC		South Woodham Ferrers	Inchbonnie Rd/Marsh Farm	Street furniture maintenance	29/01/2016
48	CCC		Sandon	Maldon Road	Cut back vegetation from footpath	29/01/2016
49	CCC		Sandon	Maldon Road Opp 156	Cut back overgrowing vegetation, side footway	01/02/2016
50	CCC		Great Baddow	Maltings Road	Side/edge/cut back the footway	01/02/2016
51	CCC		Highwood	Highwood Road	Cut back footway, clear moss	01 to 02/02/2016
52	CCC		South Woodham Ferrers	Chadwick Road	Cut back hedge, bushes, litter pick	02/02/2016
53	CCC		Rettendon	Various	Cut back, dig & clear cycle path	03 to 05/02/2016
54	CCC		Howe Green	Various	Remove fly posters	05/02/2016

### Chelmsford City Highway Rangers - Works Summary February 2016

Ref. No.	ECC Job	Date	Parish	Street	Works	Date Completed
55	CCC		Galleywood	Various	Remove fly posters	05/02/2016
56	CCC		Rettendon	Various	Remove fly posters	05/02/2016
57	CCC		Springfield	Belmonde Drive	Cut Back Hedge sweeper unable to get through f/way	05/02/2016
58	CCC		Rettendon	Rettendon	Cut back vegetation and dig back cycle path	08/02/2016
59	CCC		Stock	Swan Lane Pasture	Cut back vegetation overhanging footway	09/02/2016
60	CCC		Bures Hamlet	Cambridge Way	Cut back bushes blocking car park entrance	09/02/2016
61	CCC		Rettendon	Rettendon	Cut back, dig & clear cycle path	10/02/2016
62	CCC		Chelmsford	Thames Avenue	Clear bus stop glass make safe	10/02/2016
63	CCC		Rettendon	Rettendon	Cut back, dig & clear cycle way	11/02/2016
64	CCC		South Woodham Ferrers	Brent Avenue	Cut back overhanging vegetation from footway	12/02/2016
65	CCC		Chelmsford	Essex Regiment Way	Help with tanker work	15/02/2016
66	CCC		Chelmsford	Forest Drive Shops	Remove metal stud from pavement trip hazard	16/02/2016
67	CCC		Chelmsford	Barnfield Mews	Make safe brick wall	16/02/2016
68	CCC		Springfield	Paddock Drive	Scrape clean & cut back alleyway	16/02/2016
69	CCC		Writtle	Various	Street furniture maintenance	17/02/2016
70	CCC		Chelmsford	Heath Drive	Street furniture maintenance	17/02/2016
71	CCC		Chelmsford	Hylands Park	Help with tanker work	18/02/2016
72	CCC		Chelmsford	Wharf Road Car Park	clear up/litter pick, sweep, remove waste	19/02/2016
73	CCC		Chelmsford	Lyon Mead	Help with tanker work	22/02/2016
74	CCC		Great Waltham	Various	Remove Car park signs for village hall	23/02/2016
75	CCC		Stock	Stock Road	Cut back vegetation from footway	23/02/2016
76	CCC		Howe Green	Various	Cut back cycle way vegetation clean channels	24/02/2016
77	CCC		Howe Green	Various	Cut back vegetation and mud and around bus stop.	25/02/2016
78	CCC		Springfield	Brackenden Drive	Cut back vegetation from footway	25/02/2016
79	CCC		Springfield	Springfield Bypass	Cut back ,litter pick verge	26/02/2016
80	CCC		Little Baddow	Chapel Lane	Street furniture maintenance	29/02/2016
81	CCC		East Hanningfield	Old Church Road	Street furniture maintenance	29/02/2016



**Chelmsford City Highway Rangers - Works Summary February 2016**

Ref. No.	ECC Job	Date	Parish	Street	Works	Date Completed
82		CCC	Woodham Ferrers	Workhouse Lane	Street furniture maintenance	29/02/2016
83		CCC	Galleywood	Galleywood Hill	Install no Fly tipping Sign	29/02/2016