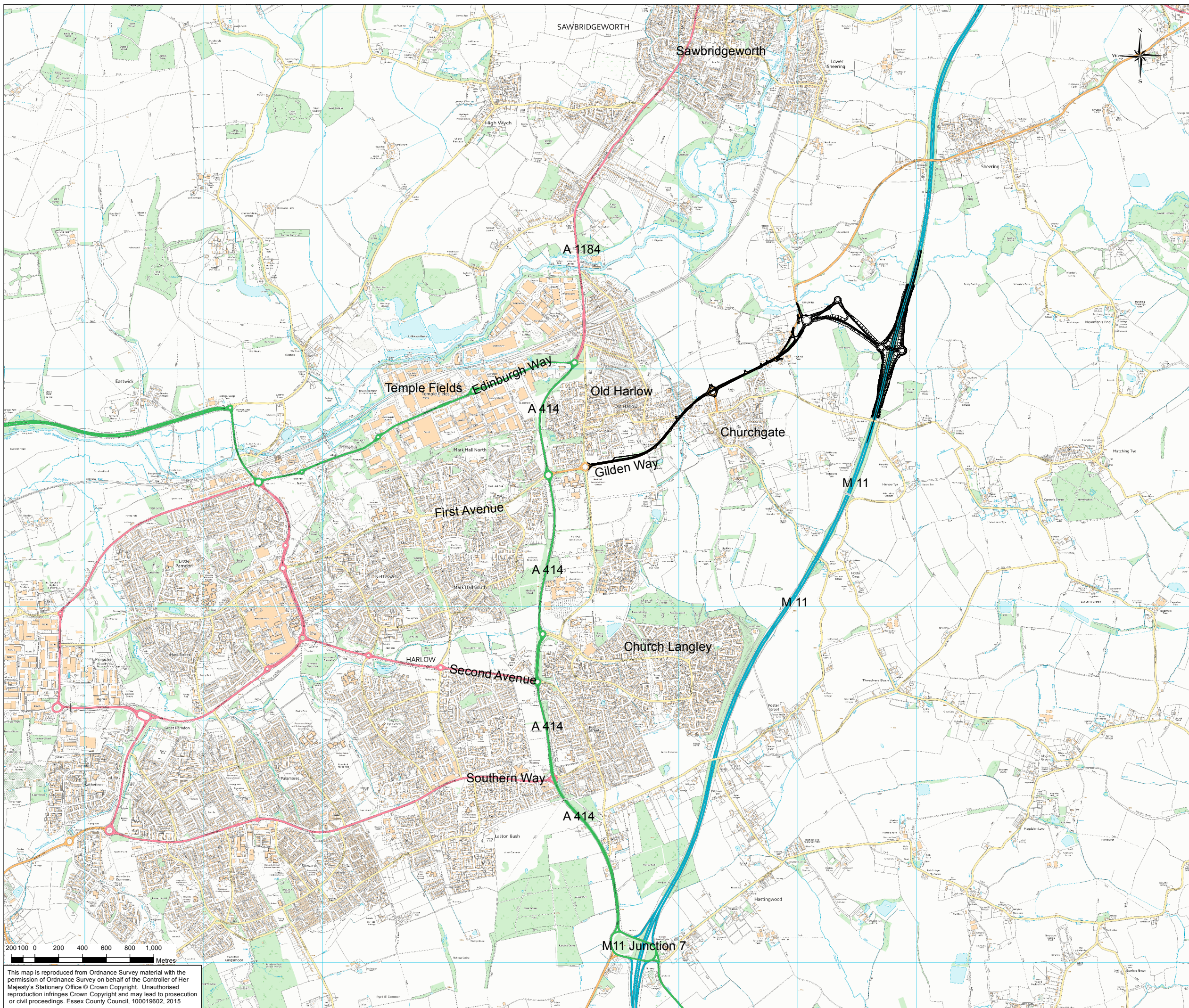


# Volume B Figures

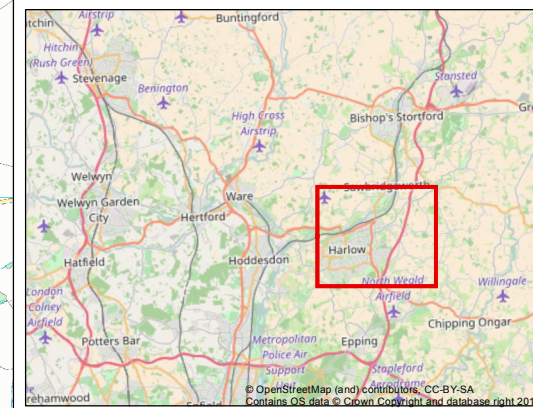


**Notes**

1. Do not scale

**Key**

— Design iteration 1 PCF stage 3



Rev.	Date	Description of revision	Drawn	Checked	Review'd	Approv'd
0	01/17	ISSUED FOR PLANNING APPLICATION	LM	CB	HK	PM

Drawing Status: PRELIMINARY DESIGN



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Scheme Title: M11 JUNCTION 7A

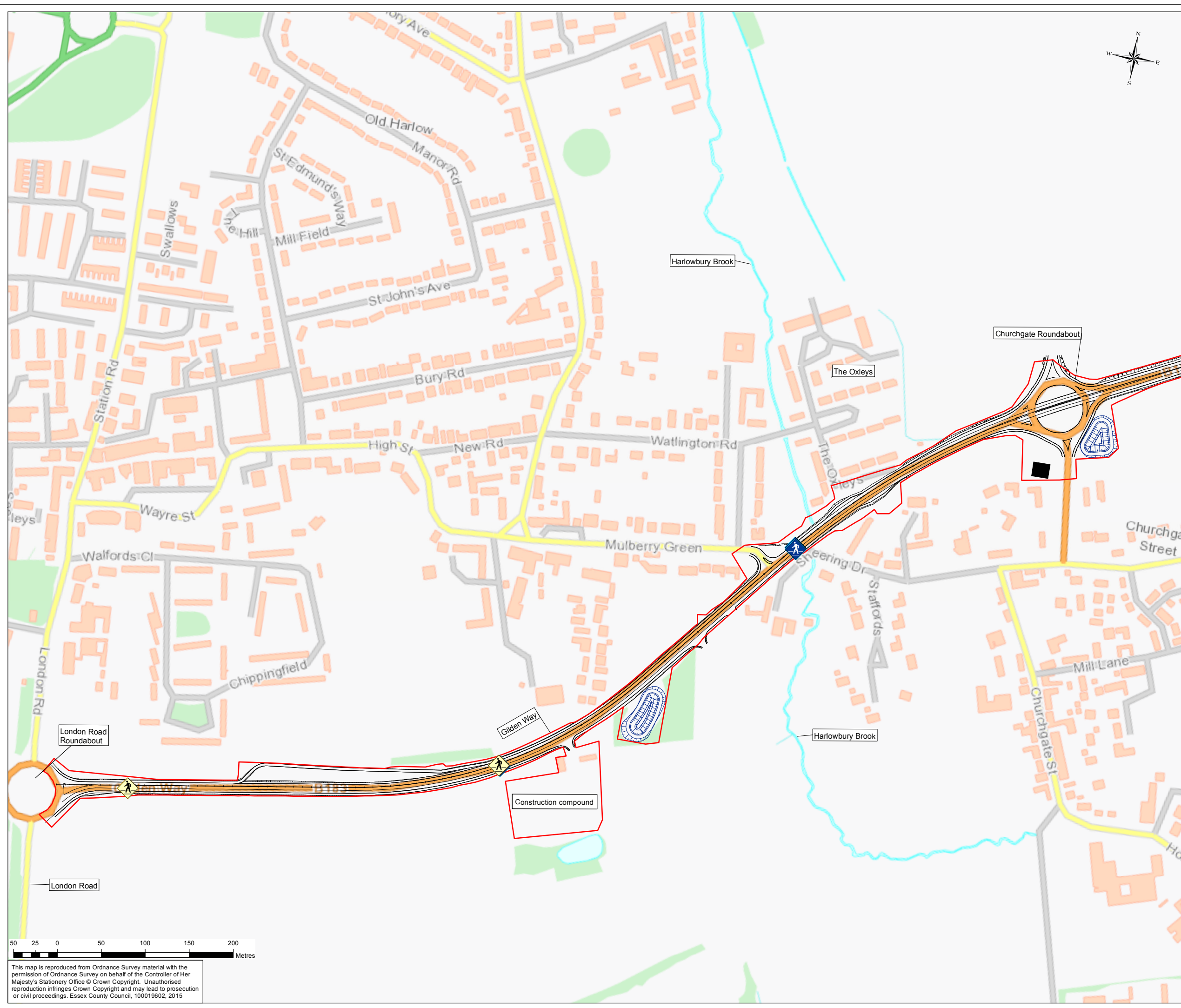
Drawing Title: FIGURE 1-1  
 SITE LOCATION PLAN

DESIGNED	DRAWN	CHECKED	REVIEWED	APPROVED
LM	LM	CB	HK	PM
DATE	DATE	DATE	DATE	DATE
17/01/2017	17/01/2017	17/01/2017	17/01/2017	17/01/2017

DRAWING UNITS U.N.O. SCALE AT A3 (420 x 297 mm)  
 1:30,000

DRAWING NO. B3553F05-0000-DR-0155 REV. P0

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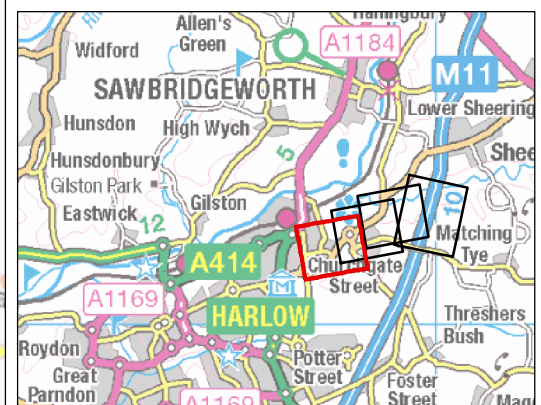


**Notes**

1. Do not scale

**Key**

- Redline boundary
- Design iteration 1 PCF stage 3
- Attenuation pond
- Upgraded crossing
- Toucan crossing
- Underground water storage tank



Rev.	Date	Description of revision	Drawn	Checked	Reviewed	Approved
0	01/17	ISSUED FOR PLANNING APPLICATION	LM	CB	HK	PM

Drawing Status: PRELIMINARY DESIGN



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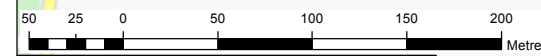
Scheme Title: M11 JUNCTION 7A

Drawing Title: FIGURE 2-1 OVERALL SITE LAYOUT PLAN SHEET 1 OF 4

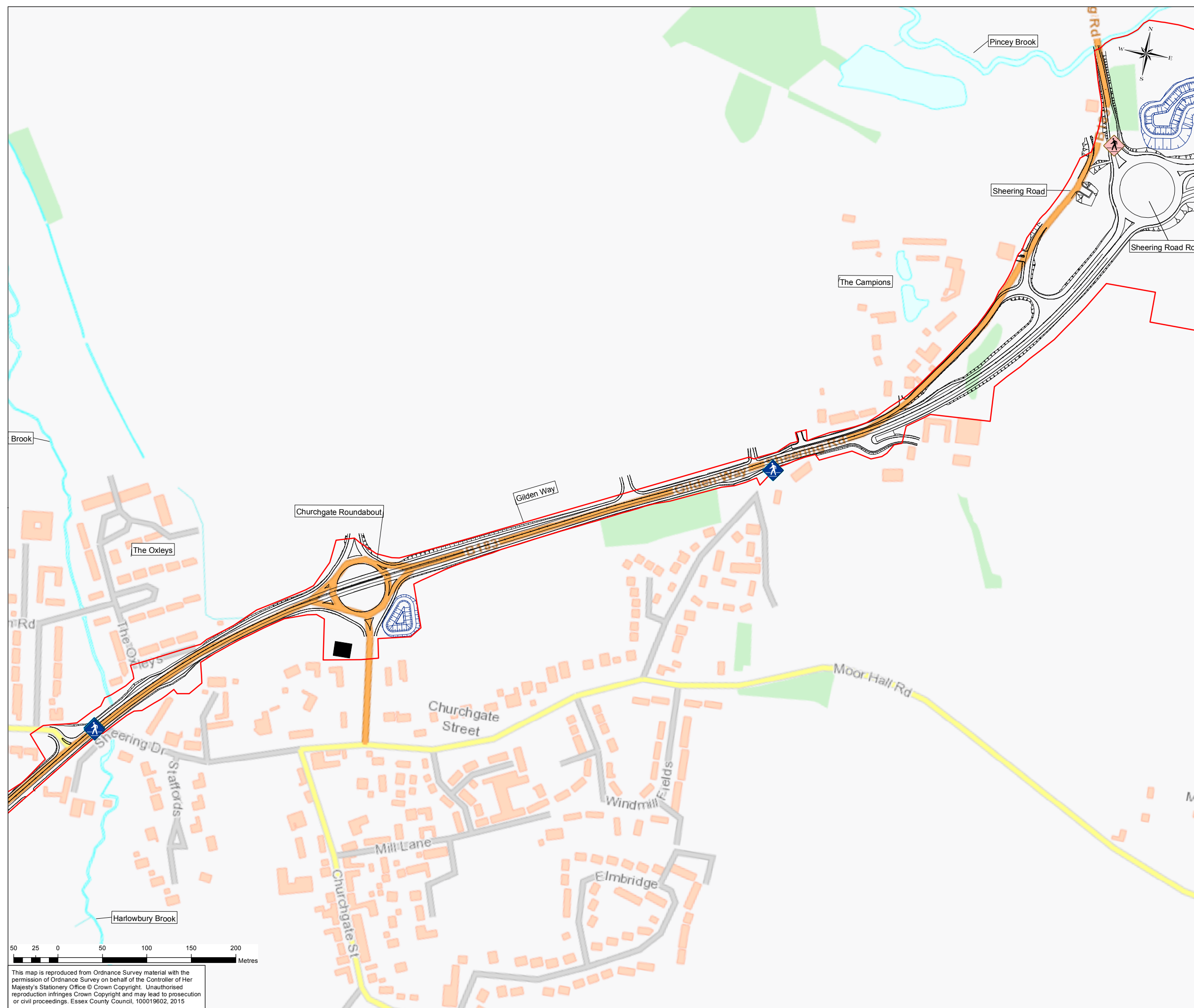
DESIGNED	DRAWN	CHECKED	REVIEWED	APPROVED
LM	LM	CB	HK	PM
DATE	DATE	DATE	DATE	DATE
03/01/2017	03/01/2017	03/01/2017	03/01/2017	03/01/2017

DRAWING UNITS U.N.O. SCALE AT A3 (420 x 297 mm) 1:4,000

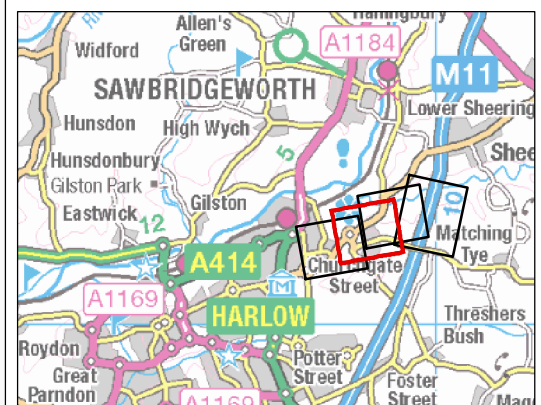
DRAWING NO. B3553F05-0000-DR-0149 REV. P0



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- Notes**
1. Do not scale
- Key**
- Redline boundary
  - Design iteration 1 PCF stage 3
  - Attenuation pond
  - Upgraded crossing
  - Crossing without signal
  - Underground water storage tank



Rev.	Date	Description of revision	Drawn	Checked	Reviewed	Approved
0	01/17	ISSUED FOR PLANNING APPLICATION	LM	CB	HK	PM

Drawing Status: PRELIMINARY DESIGN



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Scheme Title: M11 JUNCTION 7A

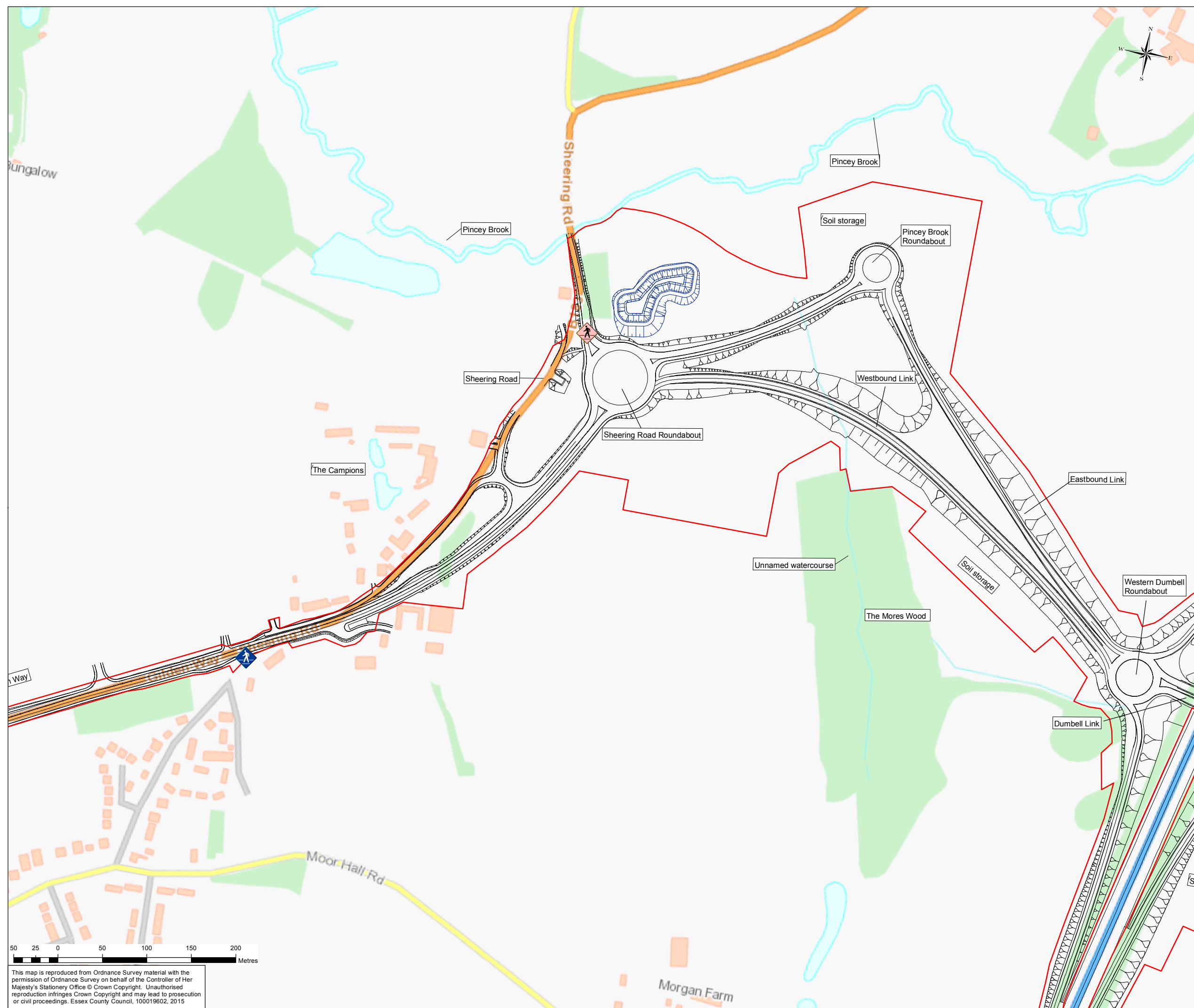
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 OVERALL SITE LAYOUT PLAN  
 SHEET 2 OF 4

DESIGNED	DRAWN	CHECKED	REVIEWED	APPROVED
LM	LM	CB	HK	PM
DATE	DATE	DATE	DATE	DATE
03/01/2017	03/01/2017	03/01/2017	03/01/2017	03/01/2017

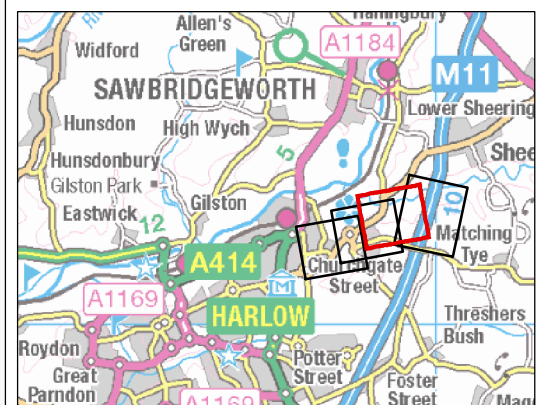
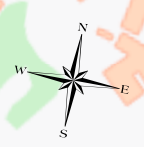
DRAWING UNITS U.N.O. SCALE AT A3 (420 x 297 mm) 1:4,000

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- Notes**
- Do not scale
- Key**
- Redline boundary
  - Design iteration 1 PCF stage 3
  - Attenuation pond
  - Upgraded crossing
  - Crossing without signal



Rev.	Date	Description of revision	Drawn	Checked	Reviewed	Approved
0	01/17	ISSUED FOR PLANNING APPLICATION	LM	CB	HK	PM

Drawing Status: PRELIMINARY DESIGN



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Scheme Title: M11 JUNCTION 7A

Drawing Title: FIGURE 2-1 OVERALL SITE LAYOUT PLAN SHEET 3 OF 4

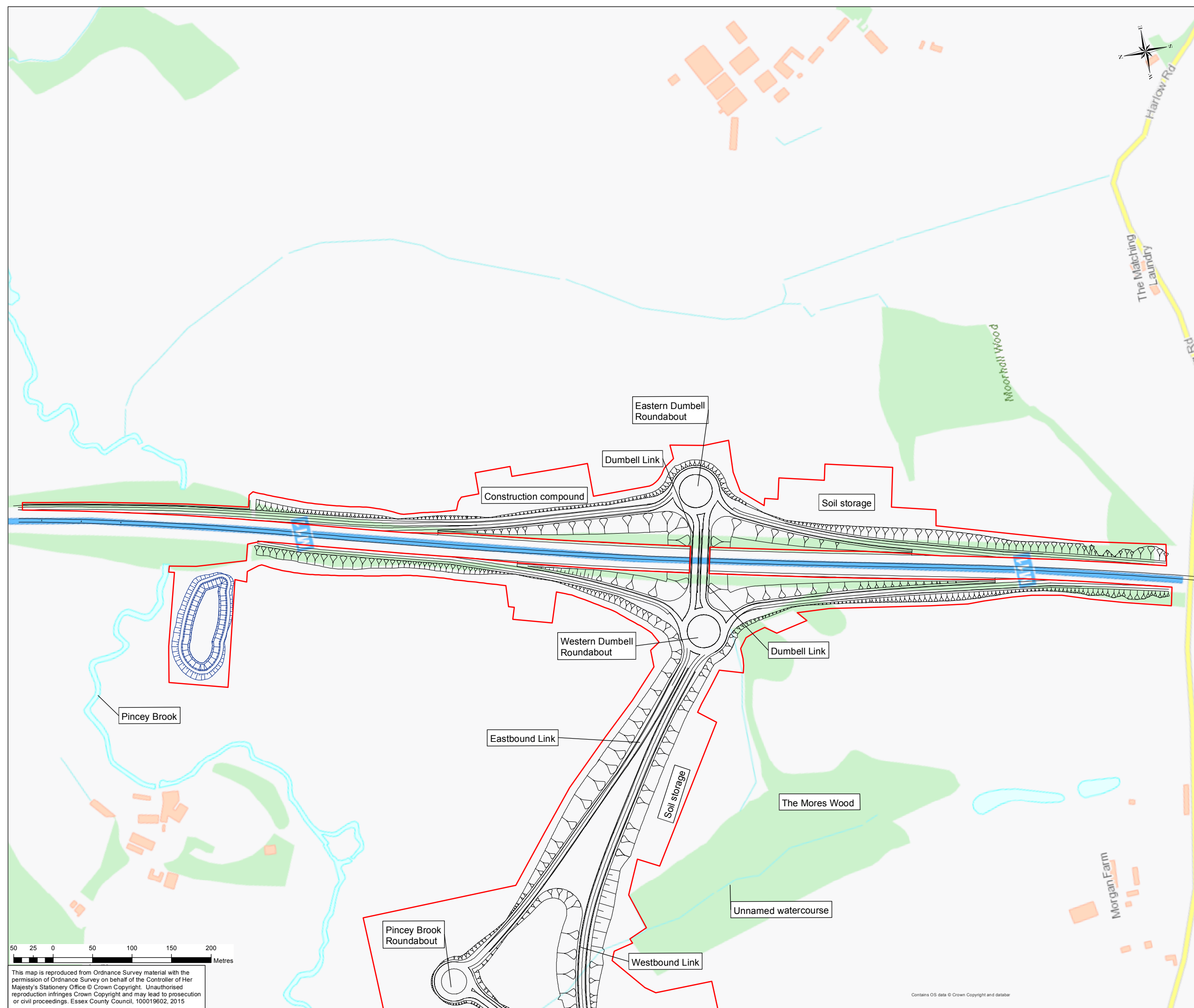
DESIGNED	DRAWN	CHECKED	REVIEWED	APPROVED
LM	LM	CB	HK	PM
DATE	DATE	DATE	DATE	DATE
03/01/2017	03/01/2017	03/01/2017	03/01/2017	03/01/2017

DRAWING UNITS U.N.O. SCALE AT A3 (420 x 297 mm) 1:4,000

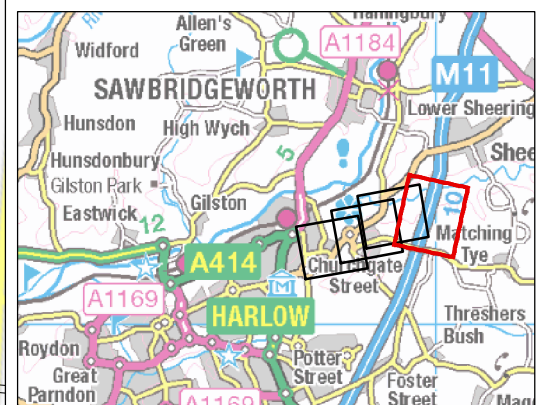
DRAWING NO. B3553F05-0000-DR-0149 REV. P0



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- Notes**
- 1. Do not scale
- Key**
- Redline boundary
  - Design iteration 1 PCF stage 3
  - Attenuation pond



Rev.	Date	Description of revision	Drawn	Checked	Reviewed	Approved
0	01/17	ISSUED FOR PLANNING APPLICATION	LM	CB	HK	PM

Drawing Status: PRELIMINARY DESIGN



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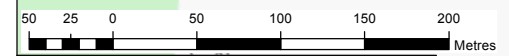
Scheme Title: M11 JUNCTION 7A

Drawing Title: FIGURE 2-1 OVERALL SITE LAYOUT PLAN SHEET 4 OF 4

DESIGNED	DRAWN	CHECKED	REVIEWED	APPROVED
LM	LM	CB	HK	PM
DATE	DATE	DATE	DATE	DATE
03/01/2017	03/01/2017	03/01/2017	03/01/2017	03/01/2017

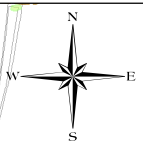
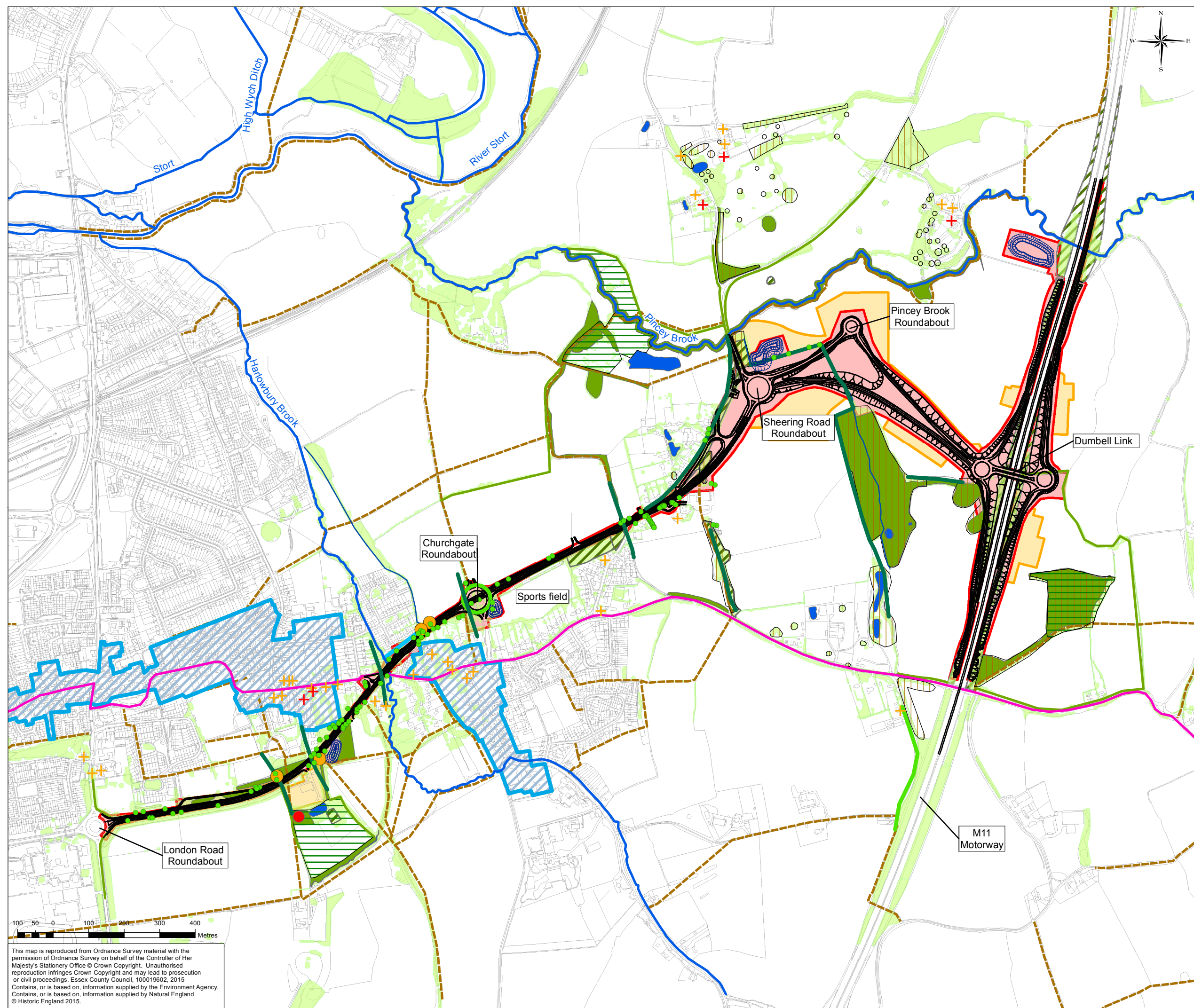
DRAWING UNITS U.N.O. SCALE AT A3 (420 x 297 mm) 1:4,500

DRAWING NO. B3553F05-0000-DR-0149 REV. P0



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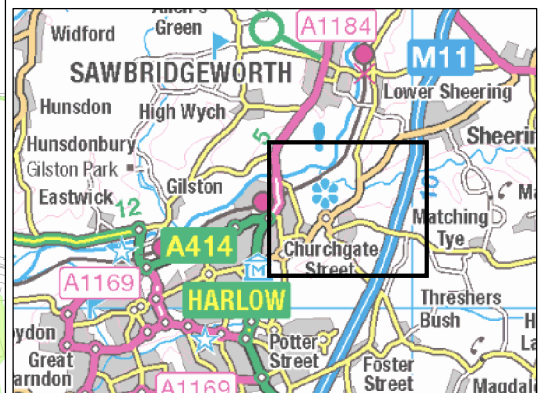


**Notes**

1. Do not scale  
 The constraints shown are considered to be the most significant environmental constraints. Further constraints are discussed in the individual sections of the report.

**Key**

- Design iteration 1
- PCF stage 3
- Attenuation pond
- Redline boundary - permanent
- Redline boundary - temporary
- Public footpath
- National cycle route
- Main river
- Other watercourse
- Tree
- Protected Wildlife Verge
- Ditch line
- Hedge
- Key flight path for bats
- Recorded bat roost tree
- Local Wildlife Site (LWS)
- Tree Preservation Order (TPO)
- Existing vegetation
- Broadleaved woodland
- Plantation broadleaved woodland
- Lake/pond
- Grade II\* listed building
- Grade II listed building
- Scheduled Monument
- Conservation area



Rev.	Date	Description of revision	Drawn	Checked	Review'd	Approv'd
0	12/16	ISSUED FOR PLANNING APPLICATION	KK	CB	HK	PM

Drawing Status: PRELIMINARY DESIGN



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Scheme Title: M11 JUNCTION 7A

Drawing Title: FIGURE 2-2 OVERVIEW ENVIRONMENTAL CONSTRAINTS

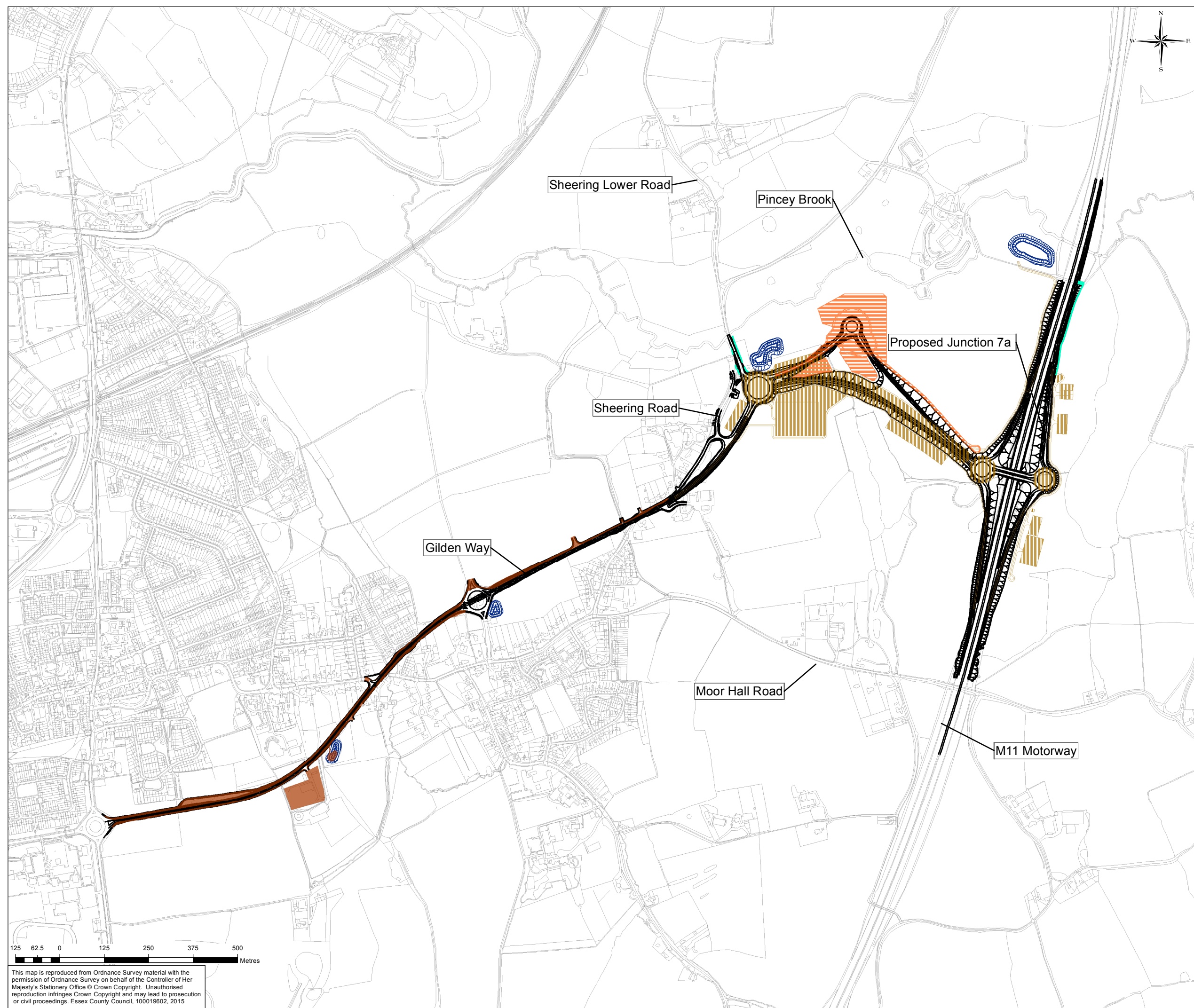
DESIGNED	DRAWN	CHECKED	REVIEWED	APPROVED
EW	KK	CB	HK	PM
DATE	DATE	DATE	DATE	DATE
20/12/2016	20/12/2016	20/12/2016	20/12/2016	20/12/2016

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**Notes**

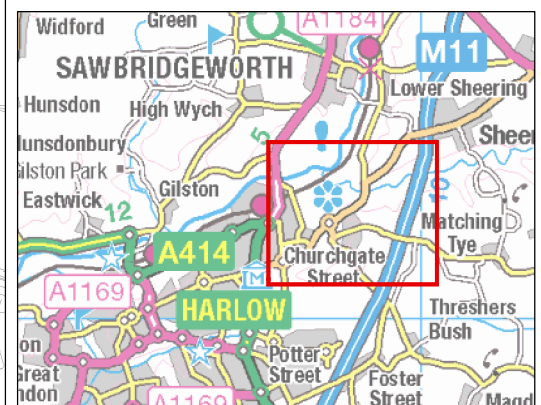
1. Do not scale

**Key**

- Design iteration 1 PCF stage 3
- Attenuation pond

**Construction Site Layout**

- Phase 1
- Phase 2A
- Phase 2B
- Construction zone



Rev.	Date	Description of revision	Drawn	Checked	Review'd	Approv'd
0	12/16	ISSUED FOR PLANNING APPLICATION	KK	CB	HK	PM

Drawing Status: PRELIMINARY DESIGN



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Scheme Title: M11 JUNCTION 7A

Drawing Title: FIGURE 2-3 CONSTRUCTION SITE LAYOUT

DESIGNED	DRAWN	CHECKED	REVIEWED	APPROVED
EW	KK	CB	HK	PM
DATE	DATE	DATE	DATE	DATE
15/12/2016	15/12/2016	15/12/2016	15/12/2016	15/12/2016

DRAWING UNITS U.N.O. SCALE AT A3 (420 x 297 mm) 1:10,000

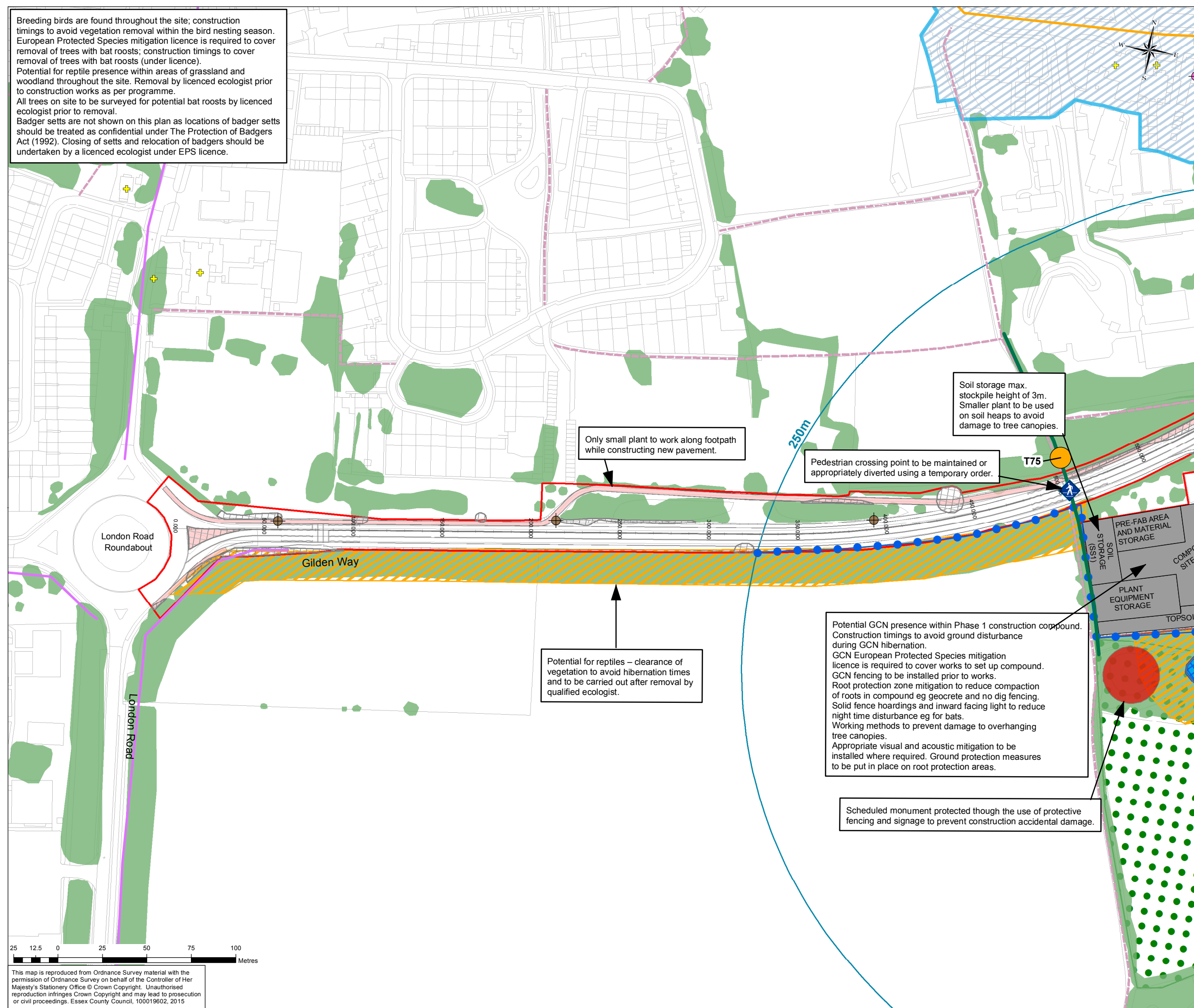
DRAWING NO. B3553F05-0000-DR-0113 REV. P0



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Breeding birds are found throughout the site; construction timings to avoid vegetation removal within the bird nesting season. European Protected Species mitigation licence is required to cover removal of trees with bat roosts; construction timings to cover removal of trees with bat roosts (under licence). Potential for reptile presence within areas of grassland and woodland throughout the site. Removal by licenced ecologist prior to construction works as per programme. All trees on site to be surveyed for potential bat roosts by licenced ecologist prior to removal. Badger setts are not shown on this plan as locations of badger setts should be treated as confidential under The Protection of Badgers Act (1992). Closing of setts and relocation of badgers should be undertaken by a licenced ecologist under EPS licence.



- Notes**
- Do not scale
- Key**
- Redline boundary
  - Design iteration 1 PCF stage 3
  - Public footpath
  - Footways and paved areas
  - Essex cycle network
  - National cycle route
  - Existing pedestrian crossing
  - Phase 1 construction compound
  - Existing woodland canopy, trees and hedges to be retained
  - Existing woodland canopy, trees and hedges to be removed
  - Recorded bat roost tree
  - Key flight path for bats
  - Reptile presence
  - Confirmed GCN pond
  - GCN pond buffer 250m
  - GCN exclusion fencing
  - Conservation area
  - Scheduled monument
  - Grade II listed building
  - Area of made ground (Confirmed by GI)
  - Industrial - contemporary trade
  - Local Wildlife Site (LWS)

Soil storage max. stockpile height of 3m. Smaller plant to be used on soil heaps to avoid damage to tree canopies.

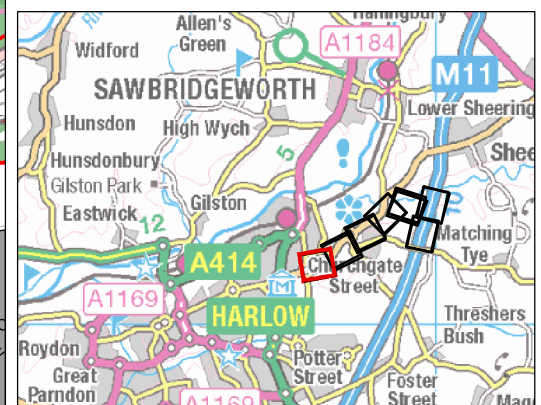
Only small plant to work along footpath while constructing new pavement.

Pedestrian crossing point to be maintained or appropriately diverted using a temporary order.

Potential for reptiles – clearance of vegetation to avoid hibernation times and to be carried out after removal by qualified ecologist.

Potential GCN presence within Phase 1 construction compound. Construction timings to avoid ground disturbance during GCN hibernation. GCN European Protected Species mitigation licence is required to cover works to set up compound. GCN fencing to be installed prior to works. Root protection zone mitigation to reduce compaction of roots in compound eg geocrete and no dig fencing. Solid fence hoardings and inward facing light to reduce night time disturbance eg for bats. Working methods to prevent damage to overhanging tree canopies. Appropriate visual and acoustic mitigation to be installed where required. Ground protection measures to be put in place on root protection areas.

Scheduled monument protected through the use of protective fencing and signage to prevent construction accidental damage.



Rev.	Date	Description of revision	Drawn	Checked	Reviewed	Approved
0	01/17	ISSUED FOR PLANNING APPLICATION	LM	CB	HK	PM

Drawing Status: PRELIMINARY DESIGN



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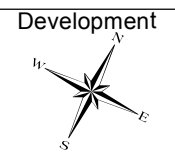
Scheme Title: M11 JUNCTION 7A

Drawing Title: FIGURE 2-4 CONSTRUCTION ENVIRONMENTAL PLAN SHEET 1 OF 7

DESIGNED	DRAWN	CHECKED	REVIEWED	APPROVED
LM	LM	CB	HK	PM
DATE	DATE	DATE	DATE	DATE
18/01/2017	18/01/2017	18/01/2017	18/01/2017	18/01/2017
DRAWING UNITS U.N.O.		SCALE AT A3 (420 x 297 mm)		
		1:2,000		
DRAWING NO. B3553F05-0000-DR-0131				REV. P0

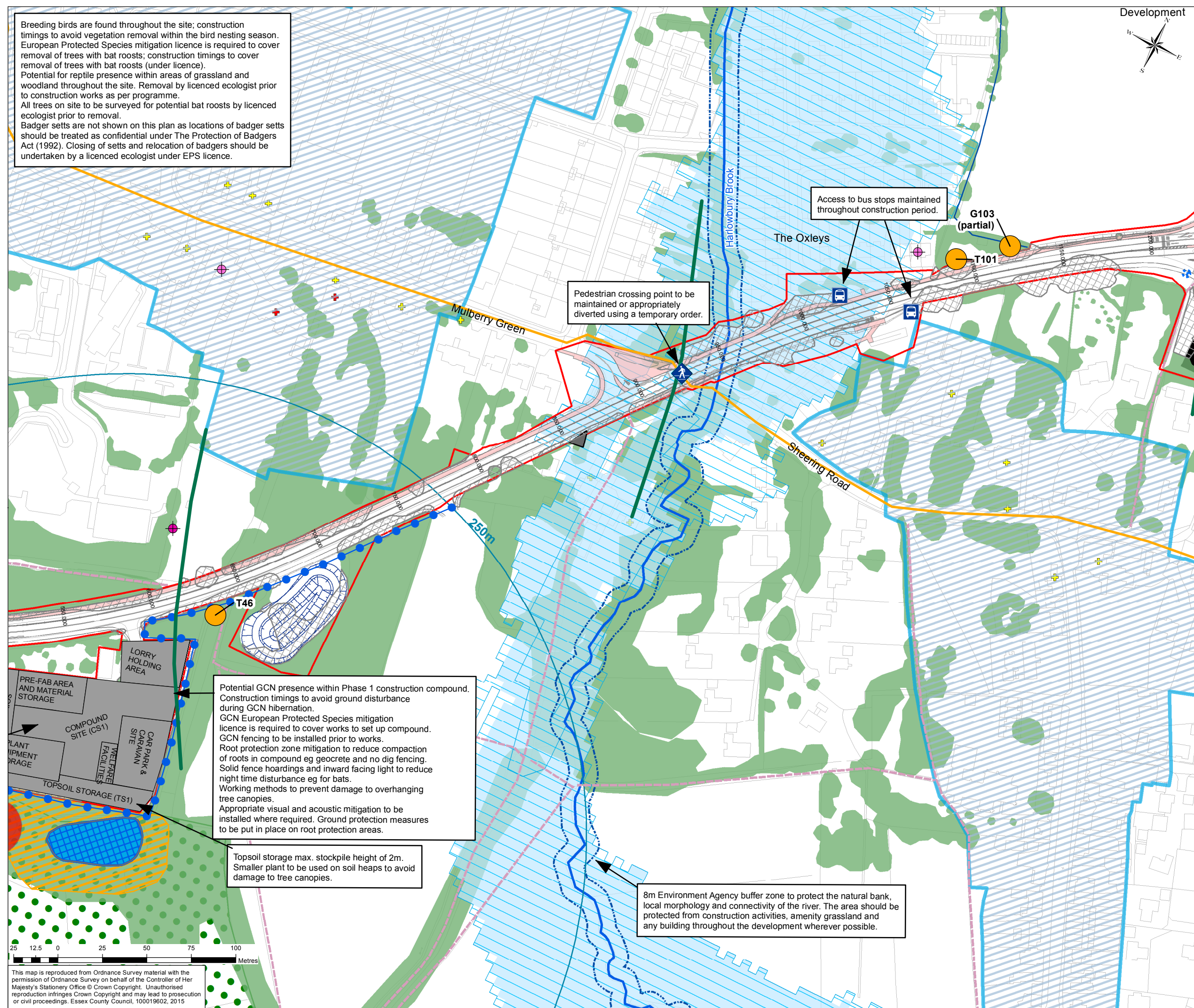
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Breeding birds are found throughout the site; construction timings to avoid vegetation removal within the bird nesting season. European Protected Species mitigation licence is required to cover removal of trees with bat roosts; construction timings to cover removal of trees with bat roosts (under licence). Potential for reptile presence within areas of grassland and woodland throughout the site. Removal by licenced ecologist prior to construction works as per programme. All trees on site to be surveyed for potential bat roosts by licenced ecologist prior to removal. Badger setts are not shown on this plan as locations of badger setts should be treated as confidential under The Protection of Badgers Act (1992). Closing of setts and relocation of badgers should be undertaken by a licenced ecologist under EPS licence.



**Notes**

1. Do not scale
- Key**
- Redline boundary
  - Design iteration 1 PCF stage 3
  - Public footpath
  - Footways and paved areas
  - Attenuation pond
  - Pond outfall
  - National cycle route
  - Existing pedestrian crossing
  - Bus stop
  - Phase 1 construction compound
  - Underground water storage tank
  - Existing woodland canopy, trees and hedges to be retained
  - Existing woodland canopy, trees and hedges to be removed
  - Recorded bat roost tree
  - Bat roost (building)
  - Key flight path for bats
  - Reptile presence
  - Confirmed GCN pond
  - GCN pond buffer 250m
  - GCN exclusion fencing
  - Conservation area
  - Scheduled monument
  - Grade II\* listed building
  - Grade II listed building
  - Industrial - contemporary trade
  - Licensed waste management facility
  - Local Wildlife Site (LWS)
  - Main river
  - 8m Environment Agency buffer zone
  - Other watercourse
  - EA flood zone 2
  - EA flood zone 3



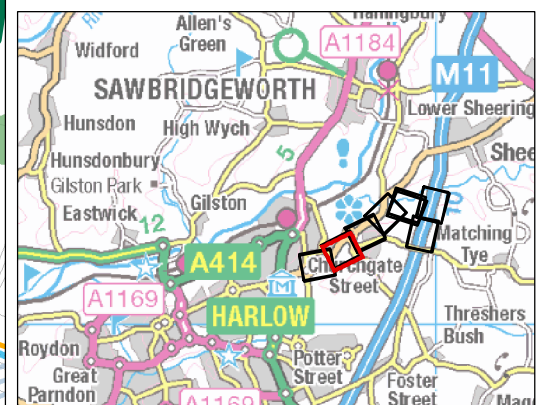
Access to bus stops maintained throughout construction period.

Pedestrian crossing point to be maintained or appropriately diverted using a temporary order.

Potential GCN presence within Phase 1 construction compound. Construction timings to avoid ground disturbance during GCN hibernation. GCN European Protected Species mitigation licence is required to cover works to set up compound. GCN fencing to be installed prior to works. Root protection zone mitigation to reduce compaction of roots in compound eg geocrete and no dig fencing. Solid fence hoardings and inward facing light to reduce night time disturbance eg for bats. Working methods to prevent damage to overhanging tree canopies. Appropriate visual and acoustic mitigation to be installed where required. Ground protection measures to be put in place on root protection areas.

Topsail storage max. stockpile height of 2m. Smaller plant to be used on soil heaps to avoid damage to tree canopies.

8m Environment Agency buffer zone to protect the natural bank, local morphology and connectivity of the river. The area should be protected from construction activities, amenity grassland and any building throughout the development wherever possible.



Rev.	Date	Description of revision	Drawn	Checked	Reviewed	Approved
0	01/17	ISSUED FOR PLANNING APPLICATION	LM	CB	HK	PM

Drawing Status: PRELIMINARY DESIGN



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Scheme Title: M11 JUNCTION 7A

Drawing Title: FIGURE 2-4 CONSTRUCTION ENVIRONMENTAL PLAN SHEET 2 OF 7

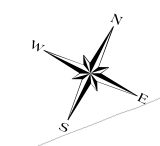
DESIGNED	DRAWN	CHECKED	REVIEWED	APPROVED
LM	LM	CB	HK	PM
DATE	DATE	DATE	DATE	DATE
18/01/2017	18/01/2017	18/01/2017	18/01/2017	18/01/2017

DRAWING UNITS U.N.O. SCALE AT A3 (420 x 297 mm) 1:2,000

DRAWING NO. B3553F05-0000-DR-0131 REV. P0

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Breeding birds are found throughout the site; construction timings to avoid vegetation removal within the bird nesting season. European Protected Species mitigation licence is required to cover removal of trees with bat roosts; construction timings to cover removal of trees with bat roosts (under licence). Potential for reptile presence within areas of grassland and woodland throughout the site. Removal by licenced ecologist prior to construction works as per programme. All trees on site to be surveyed for potential bat roosts by licenced ecologist prior to removal. Badger setts are not shown on this plan as locations of badger setts should be treated as confidential under The Protection of Badgers Act (1992). Closing of setts and relocation of badgers should be undertaken by a licenced ecologist under EPS licence.



- Notes**
- Do not scale
- Key**
- Redline boundary
  - Design iteration 1
  - PCF stage 3
  - Public footpath
  - Proposed path
  - realignment or extension
  - Footways and paved areas
  - Attenuation pond
  - National cycle route
  - Bus stop
  - Underground water storage tank
  - Existing woodland canopy, trees and hedges to be retained
  - Existing woodland canopy, trees and hedges to be removed
  - Key flight path for bats
  - Protected Wildlife Verge
  - Betony Location 2016 Survey
  - Reptile presence
  - Conservation area
  - Grade II listed building
  - Area of made ground (Confirmed by GI)
  - Potential ground instability (moderate risk area)

Harlowbury Development

Harlowbury Development

Churchgate Roundabout

Local Wildlife Verge (LWV) with betony *Stachys officinalis* (a locally rare plant). Turf, seed and topsoil to be translocated to link roads to create area of species-rich grass and wildflowers on embankments.

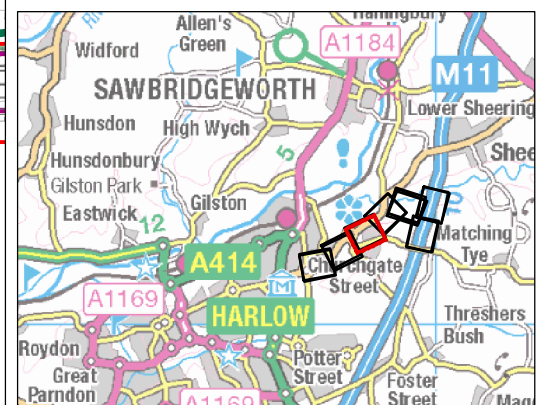
Potential for reptiles – clearance of vegetation to avoid hibernation times and to be carried out after removal by qualified ecologist.

Sports playing field. Care taken during construction to avoid conflict with recreational facility.

Access to bus stops maintained throughout construction period.

Gilden Way

Sheering Road



Rev.	Date	Description of revision	Drawn	Checked	Reviewed	Approved
0	01/17	ISSUED FOR PLANNING APPLICATION	LM	CB	HK	PM

Drawing Status: PRELIMINARY DESIGN



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Scheme Title: M11 JUNCTION 7A

Drawing Title: FIGURE 2-4 CONSTRUCTION ENVIRONMENTAL PLAN SHEET 3 OF 7

DESIGNED	DRAWN	CHECKED	REVIEWED	APPROVED
LM	LM	CB	HK	PM
DATE	DATE	DATE	DATE	DATE
18/01/2017	18/01/2017	18/01/2017	18/01/2017	18/01/2017

DRAWING UNITS U.N.O. SCALE AT A3 (420 x 297 mm) 1:2,000

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Breeding birds are found throughout the site; construction timings to avoid vegetation removal within the bird nesting season. European Protected Species mitigation licence is required to cover removal of trees with bat roosts; construction timings to cover removal of trees with bat roosts (under licence). Potential for reptile presence within areas of grassland and woodland throughout the site. Removal by licenced ecologist prior to construction works as per programme. All trees on site to be surveyed for potential bat roosts by licenced ecologist prior to removal. Badger setts are not shown on this plan as locations of badger setts should be treated as confidential under The Protection of Badgers Act (1992). Closing of setts and relocation of badgers should be undertaken by a licenced ecologist under EPS licence.

8m Environment Agency buffer zone to protect the natural bank, local morphology and connectivity of the river. The area should be protected from construction activities, amenity grassland and any building throughout the development wherever possible.

During construction of Phase 2A Section A, temporary acoustic fencing would be erected to reduce noise and light disturbance along the Pincey Brook.

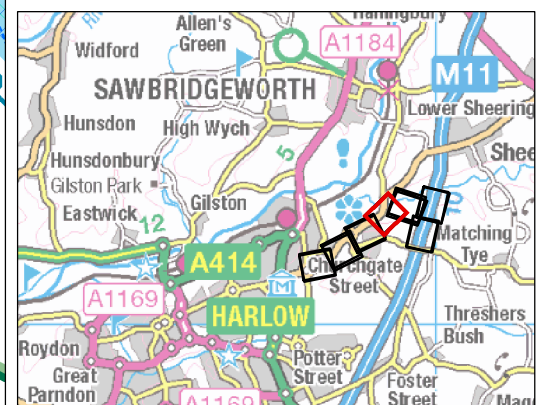
Dark area; no lighting columns.

Access to bus stops maintained throughout construction period.

Footpath diversion/closure to be implemented.

Mayfield Farm building protected through the use of protective fencing to prevent construction accidental damage.

- Notes**
1. Do not scale
- Key**
- Redline boundary
  - Design iteration 1 PCF stage 3
  - Public footpath
  - Proposed footpath closure
  - Proposed path realignment or extension
  - Footways and paved areas
  - Attenuation pond
  - Pond outfall
  - HP High pressure gas
  - Bus stop
  - TPOs to be removed
  - TPOs to be retained
  - Existing woodland canopy, trees and hedges to be retained
  - Existing woodland canopy, trees and hedges to be removed
  - Bat roost (building)
  - Key flight path for bats
  - Area of mammal underpass
  - Otter habitat
  - Badger fencing
  - Otter acoustic fencing
  - Area of archaeological remains
  - Grade II listed building
  - Groundwater abstraction
  - Industrial - contemporary trade
  - Landfill
  - Potential gas risk
  - Potential ground instability (moderate risk area)
  - Surface water abstraction
  - Local Wildlife Site (LWS)
  - Main river
  - 8m Environment Agency buffer zone
  - Other watercourse
  - Proposed stream realignment
  - Lakes and ponds
  - Modelled flood extent
  - 1% AEP (1 in 100)
  - 1% AEP (1 in 100) + 35 %
  - 1% AEP (1 in 100) + 70%
  - 0.1% AEP (1 in 1000)



Rev.	Date	Description of revision	Drawn	Checked	Reviewed	Approved
0	01/17	ISSUED FOR PLANNING APPLICATION	LM	CB	HK	PM

Drawing Status: PRELIMINARY DESIGN



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Scheme Title: M11 JUNCTION 7A

Drawing Title: FIGURE 2-4 CONSTRUCTION ENVIRONMENTAL PLAN SHEET 4 OF 7

DESIGNED	DRAWN	CHECKED	REVIEWED	APPROVED
LM	LM	CB	HK	PM

DATE	DATE	DATE	DATE	DATE
18/01/2017	18/01/2017	18/01/2017	18/01/2017	18/01/2017

DRAWING UNITS U.N.O. SCALE AT A3 (420 x 297 mm) 1:2,000

DRAWING NO. B3553F05-0000-DR-0131 REV. P0



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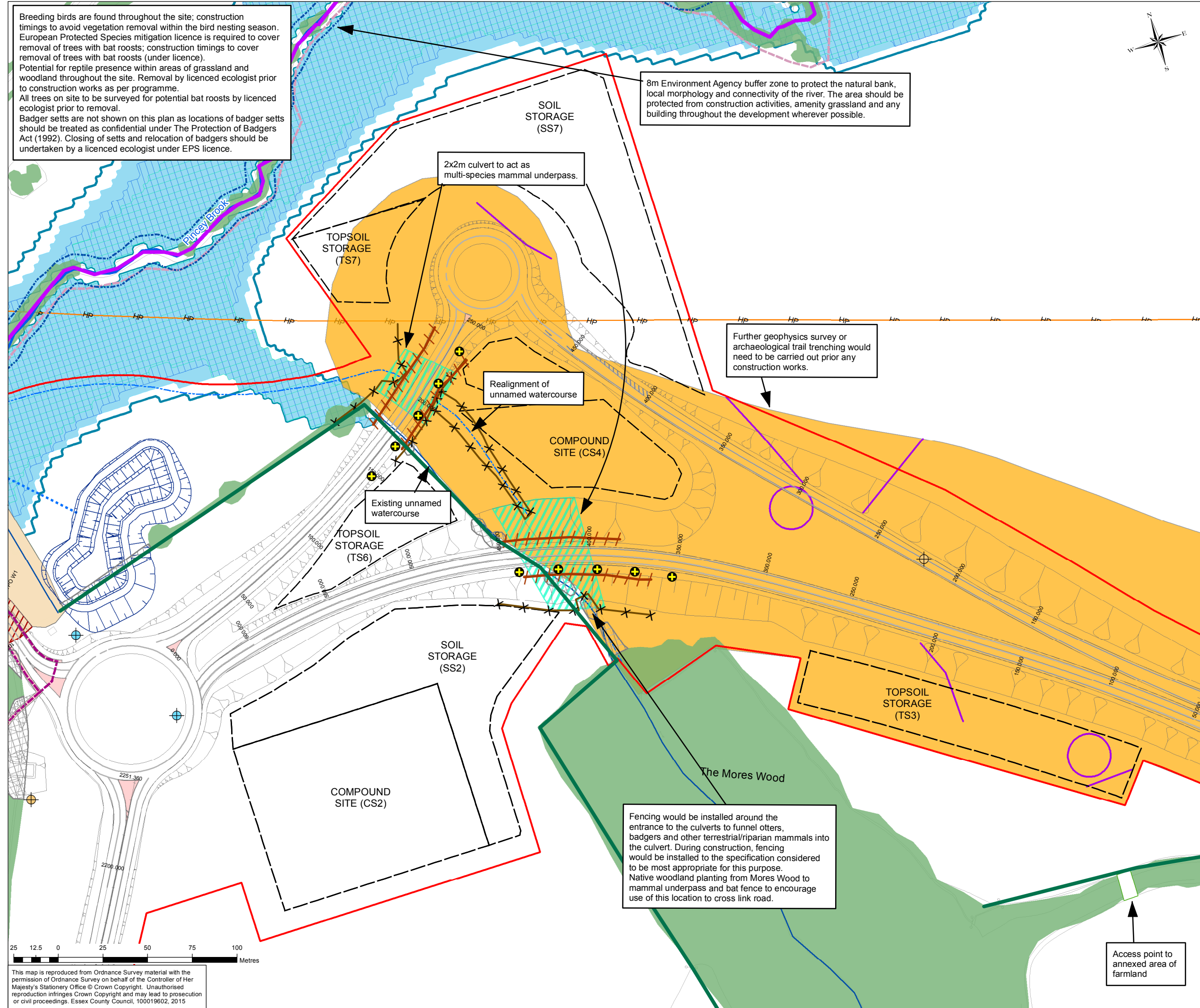
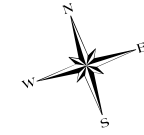
Breeding birds are found throughout the site; construction timings to avoid vegetation removal within the bird nesting season. European Protected Species mitigation licence is required to cover removal of trees with bat roosts; construction timings to cover removal of trees with bat roosts (under licence). Potential for reptile presence within areas of grassland and woodland throughout the site. Removal by licenced ecologist prior to construction works as per programme. All trees on site to be surveyed for potential bat roosts by licenced ecologist prior to removal. Badger setts are not shown on this plan as locations of badger setts should be treated as confidential under The Protection of Badgers Act (1992). Closing of setts and relocation of badgers should be undertaken by a licenced ecologist under EPS licence.

8m Environment Agency buffer zone to protect the natural bank, local morphology and connectivity of the river. The area should be protected from construction activities, amenity grassland and any building throughout the development wherever possible.

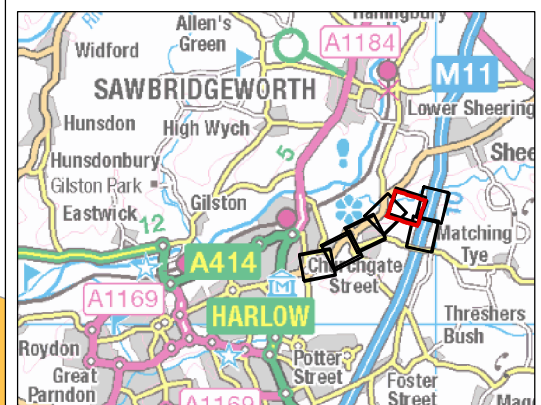
2x2m culvert to act as multi-species mammal underpass.

Further geophysics survey or archaeological trail trenching would need to be carried out prior any construction works.

Fencing would be installed around the entrance to the culverts to funnel otters, badgers and other terrestrial/riparian mammals into the culvert. During construction, fencing would be installed to the specification considered to be most appropriate for this purpose. Native woodland planting from Mores Wood to mammal underpass and bat fence to encourage use of this location to cross link road.



- Notes**
1. Do not scale
- Key**
- Redline boundary
  - Design iteration 1 PCF stage 3
  - Public footpath
  - Proposed path realignment or extension
  - Footways and paved areas
  - Attenuation pond
  - Pond outfall
  - 6m lighting column
  - HP High pressure gas
  - TPOs to be removed
  - TPOs to be retained
  - Existing woodland canopy, trees and hedges to be retained
  - Existing woodland canopy, trees and hedges to be removed
  - Key flight path for bats
  - Area of mammal underpass
  - Other habitat
  - Badger fencing
  - 5m high bat fence
  - Geophysical anomaly
  - Area of archaeological remains
  - Groundwater abstraction
  - Potential gas risk
  - Main river
  - 8m Environment Agency buffer zone
  - Other watercourse
  - Proposed stream realignment
  - Modelled flood extent**
  - 1% AEP (1 in 100)
  - 1% AEP (1 in 100) + 35%
  - 1% AEP (1 in 100) + 70%
  - 0.1% AEP (1 in 1000)



Rev.	Date	Description of revision	Drawn	Checked	Reviewed	Approved
0	01/17	ISSUED FOR PLANNING APPLICATION	LM	CB	HK	PM

Drawing Status: PRELIMINARY DESIGN



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Scheme Title: M11 JUNCTION 7A

Drawing Title: FIGURE 2-4 CONSTRUCTION ENVIRONMENTAL PLAN SHEET 5 OF 7

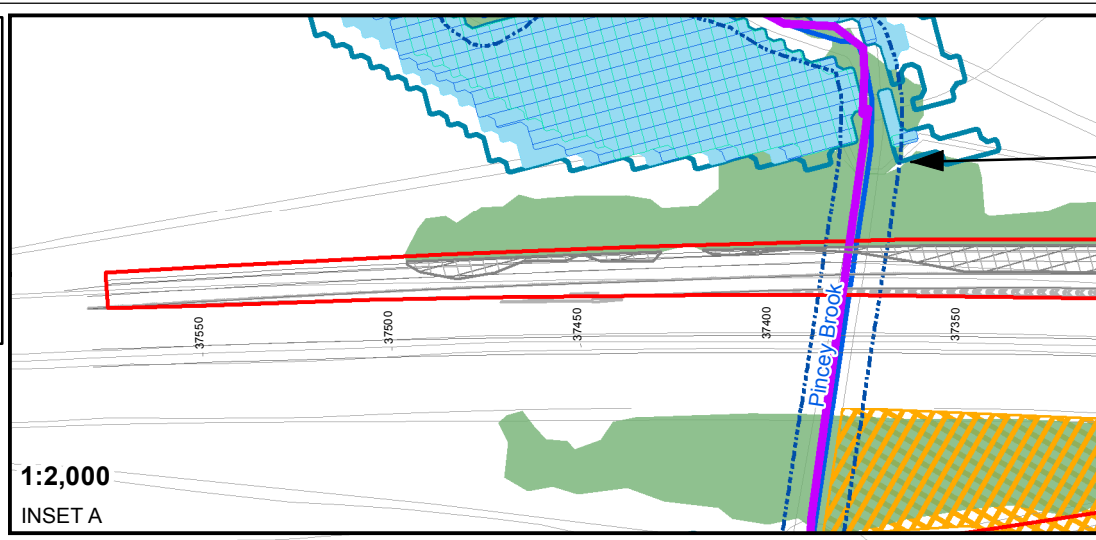
DESIGNED	DRAWN	CHECKED	REVIEWED	APPROVED
LM	LM	CB	HK	PM
DATE	DATE	DATE	DATE	DATE
18/01/2017	18/01/2017	18/01/2017	18/01/2017	18/01/2017

DRAWING UNITS U.N.O. SCALE AT A3 (420 x 297 mm) 1:2,000

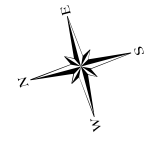
DRAWING NO. B3553F05-0000-DR-0131 REV. P0

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Breeding birds are found throughout the site; construction timings to avoid vegetation removal within the bird nesting season. European Protected Species mitigation licence is required to cover removal of trees with bat roosts; construction timings to cover removal of trees with bat roosts (under licence). Potential for reptile presence within areas of grassland and woodland throughout the site. Removal by licenced ecologist prior to construction works as per programme. All trees on site to be surveyed for potential bat roosts by licenced ecologist prior to removal. Badger setts are not shown on this plan as locations of badger setts should be treated as confidential under The Protection of Badgers Act (1992). Closing of setts and relocation of badgers should be undertaken by a licenced ecologist under EPS licence.

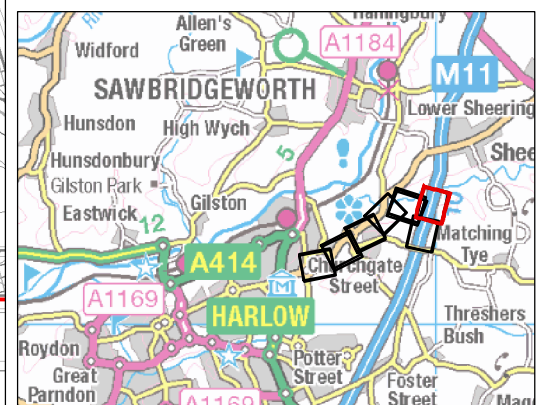
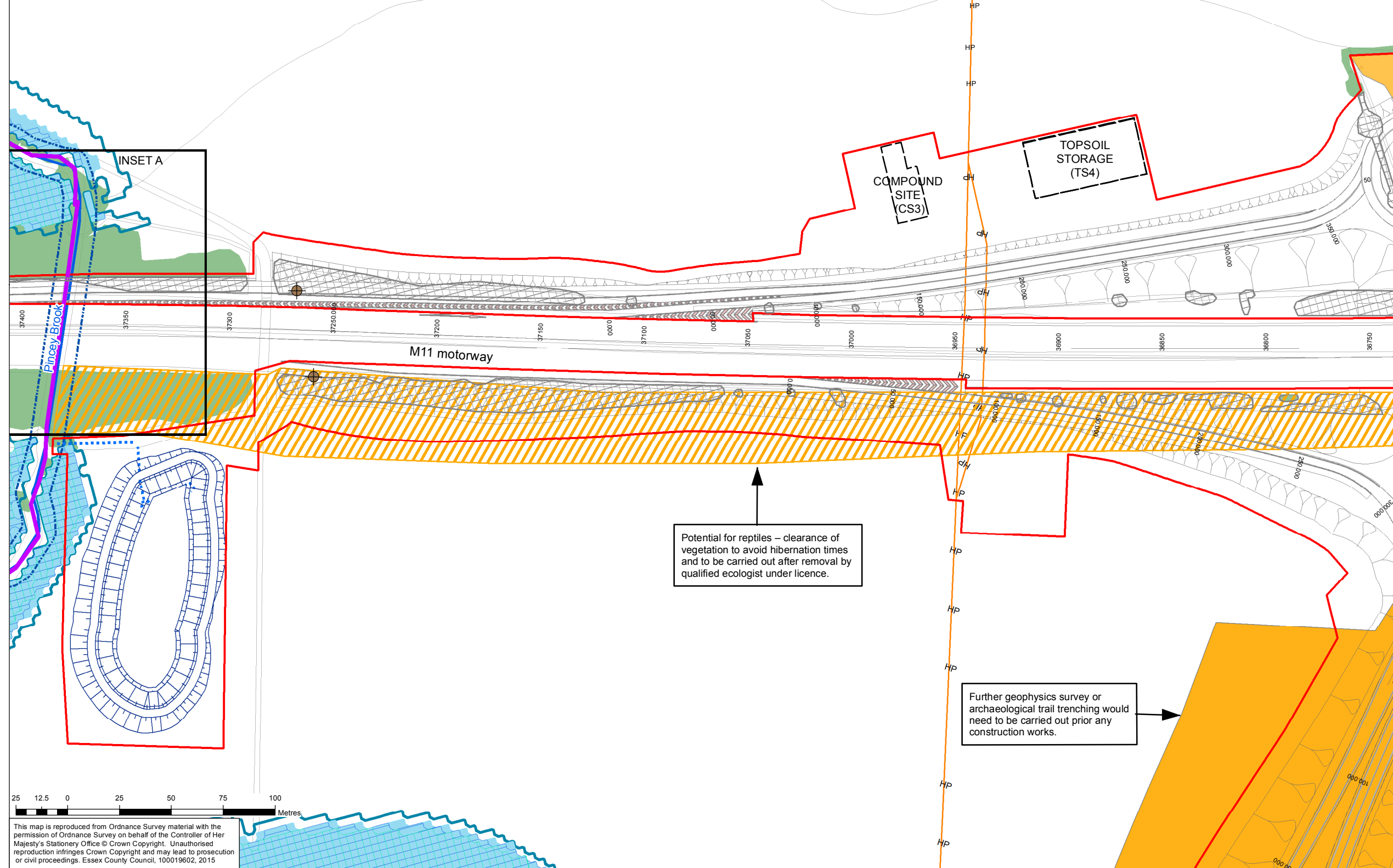


8m Environment Agency buffer zone to protect the natural bank, local morphology and connectivity of the river. The area should be protected from construction activities, amenity grassland and any building throughout the development wherever possible



**Notes**

1. Do not scale
- Key**
- Redline boundary
  - Design iteration 1 PCF stage 3
  - - - Public footpath
  - Attenuation pond
  - Pond outfall
  - HP High pressure gas
  - Existing woodland canopy, trees and hedges to be retained
  - Existing woodland canopy, trees and hedges to be removed
  - Reptile presence
  - Otter habitat
  - Area of archaeological remains
  - Geophysical anomaly
  - Area of made ground (Confirmed by GI)
  - Main river
  - 8m Environment Agency buffer zone
  - Modelled flood extent**
  - 1% AEP (1 in 100)
  - 1% AEP (1 in 100) + 35 %
  - 1% AEP (1 in 100) + 70%
  - 0.1% AEP (1 in 1000)



Rev.	Date	Description of revision	Drawn	Checked	Reviewed	Approved
0	01/17	ISSUED FOR PLANNING APPLICATION	LM	CB	HK	PM

Drawing Status: PRELIMINARY DESIGN



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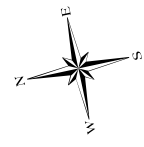
Scheme Title: M11 JUNCTION 7A

Drawing Title: FIGURE 2-4 CONSTRUCTION ENVIRONMENTAL PLAN SHEET 6 OF 7

DESIGNED	DRAWN	CHECKED	REVIEWED	APPROVED
LM	LM	CB	HK	PM
DATE	DATE	DATE	DATE	DATE
18/01/2017	18/01/2017	18/01/2017	18/01/2017	18/01/2017
DRAWING UNITS U.N.O.		SCALE AT A3 (420 x 297 mm)		
		1:2,000		
DRAWING NO. B3553F05-0000-DR-0131				REV. P0

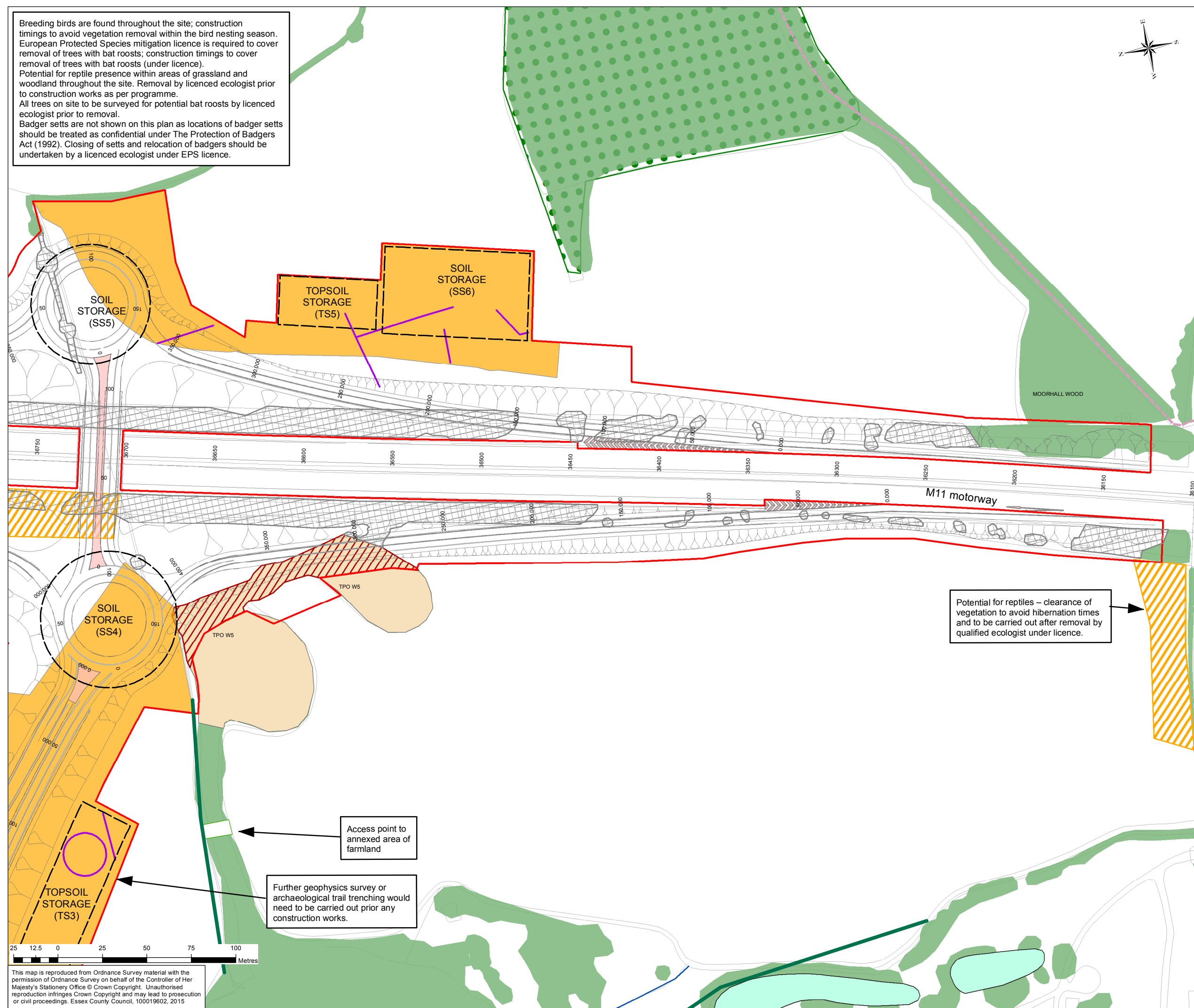
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Breeding birds are found throughout the site; construction timings to avoid vegetation removal within the bird nesting season. European Protected Species mitigation licence is required to cover removal of trees with bat roosts; construction timings to cover removal of trees with bat roosts (under licence). Potential for reptile presence within areas of grassland and woodland throughout the site. Removal by licenced ecologist prior to construction works as per programme. All trees on site to be surveyed for potential bat roosts by licenced ecologist prior to removal. Badger setts are not shown on this plan as locations of badger setts should be treated as confidential under The Protection of Badgers Act (1992). Closing of setts and relocation of badgers should be undertaken by a licenced ecologist under EPS licence.



**Notes**

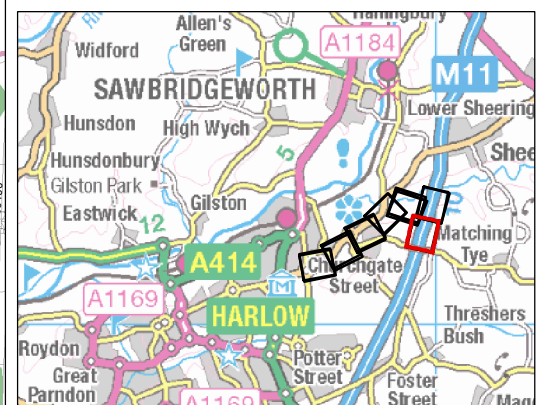
1. Do not scale
- Key**
- Redline boundary
  - Design iteration 1 PCF stage 3
  - - - Public footpath
  - Footways and paved areas
  - TPOs to be removed
  - TPOs to be retained
  - Existing woodland canopy, trees and hedges to be retained
  - Existing woodland canopy, trees and hedges to be removed
  - Key flight path for bats
  - Reptile presence
  - Area of archaeological remains
  - Geophysical anomaly
  - Local Wildlife Site (LWS)
  - Other watercourse
  - Lakes and ponds



Potential for reptiles – clearance of vegetation to avoid hibernation times and to be carried out after removal by qualified ecologist under licence.

Access point to annexed area of farmland

Further geophysics survey or archaeological trail trenching would need to be carried out prior any construction works.



Rev.	Date	Description of revision	Drawn	Checked	Reviewed	Approved
0	01/17	ISSUED FOR PLANNING APPLICATION	LM	CB	HK	PM

Drawing Status: PRELIMINARY DESIGN



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Scheme Title: M11 JUNCTION 7A

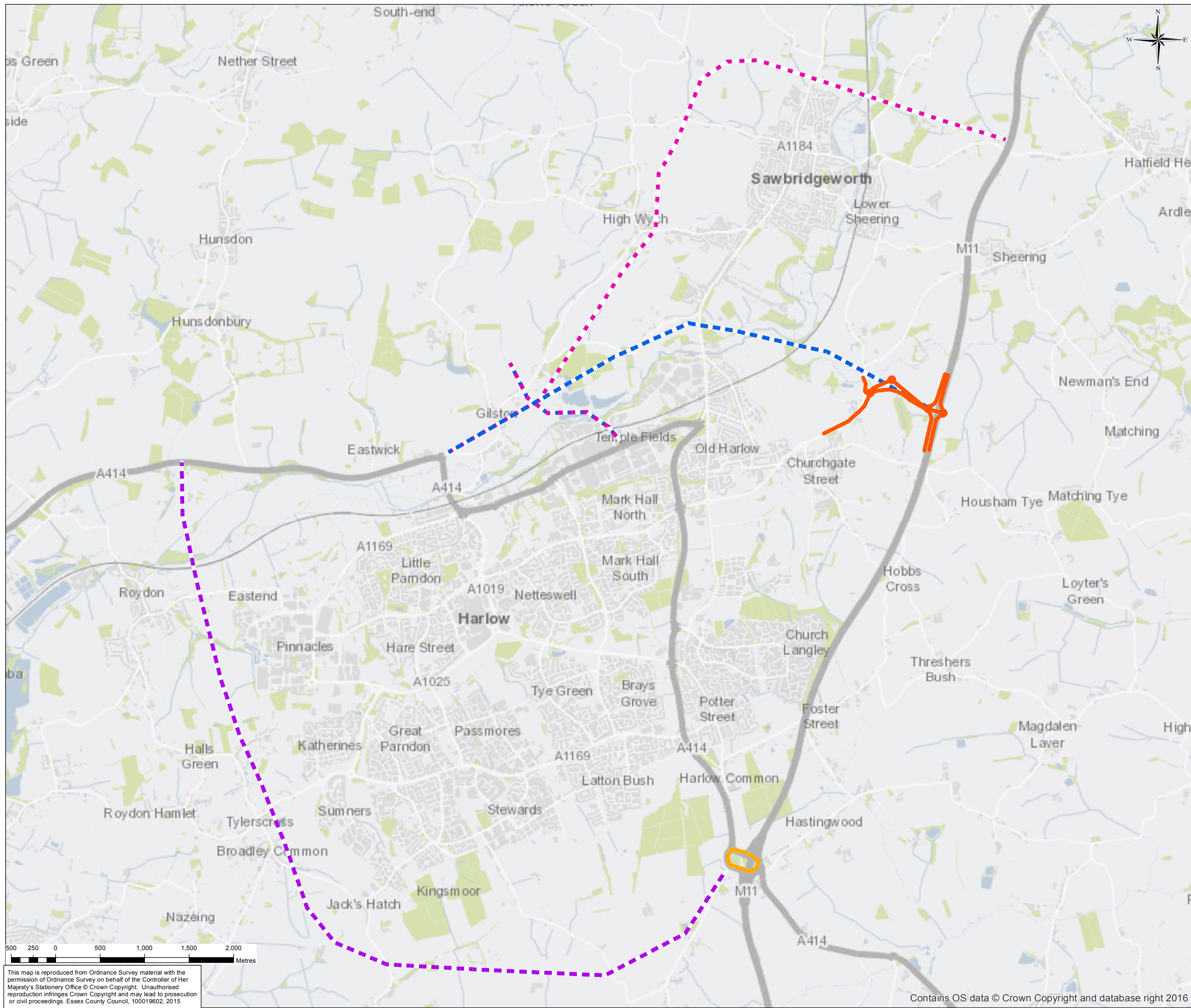
Drawing Title: FIGURE 2-4 CONSTRUCTION ENVIRONMENTAL PLAN SHEET 7 OF 7

DESIGNED	DRAWN	CHECKED	REVIEWED	APPROVED
LM	LM	CB	HK	PM
DATE	DATE	DATE	DATE	DATE
18/01/2017	18/01/2017	18/01/2017	18/01/2017	18/01/2017

DRAWING UNITS U.N.O. SCALE AT A3 (420 x 297 mm) 1:2,000

DRAWING NO. B3553F05-0000-DR-0131 REV. P0

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**Notes**

1. Do not scale

**Key**

- M11 Junction 7
- M11 Junction 7a
- - - Northern Bypass
- - - Sawbridgeworth Bypass
- - - Southern Relief Road



Rev.	Date	Description of revision	Drawn	Checked	Reviewed	Approved
0	12/16	ISSUED FOR PLANNING APPLICATION	KK	CB	HK	PM

Drawing Status: PRELIMINARY DESIGN



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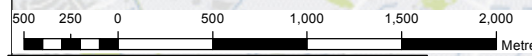
Scheme Title: M11 JUNCTION 7A

Drawing Title: FIGURE 3-1 ALTERNATIVE SCHEME OPTIONS

DESIGNED	DRAWN	CHECKED	REVIEWED	APPROVED
EW	KK	CB	HK	PM
DATE	DATE	DATE	DATE	DATE
15/12/2016	15/12/2016	15/12/2016	15/12/2016	15/12/2016

DRAWING UNITS U.N.O. SCALE AT A3 (420 x 297 mm) 1:40,000

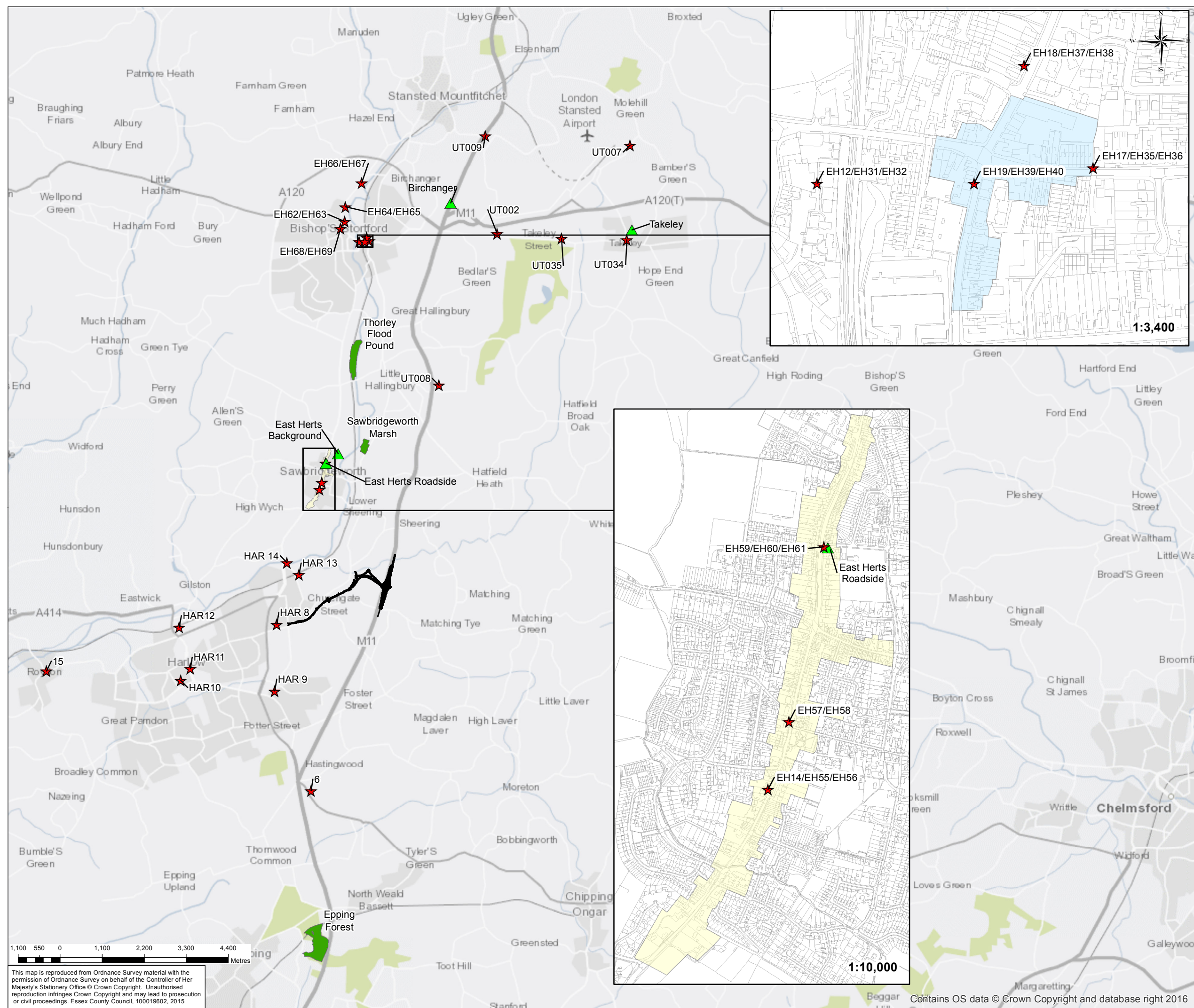
DRAWING NO. B3553F05-0000-DR-0024 REV. P0



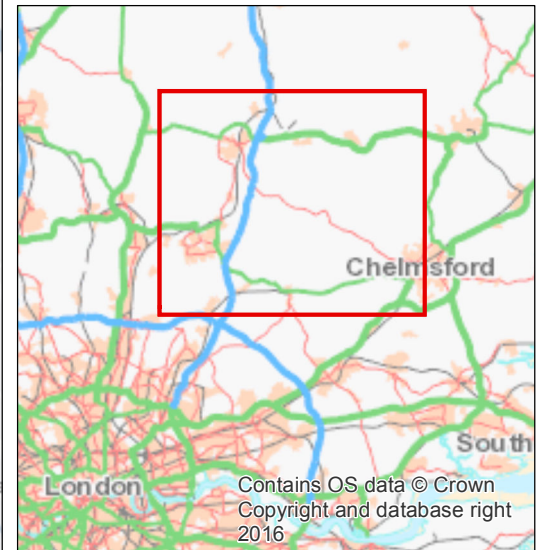
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- Notes**
- Do not scale
- Key**
- Design iteration 1 PCF stage 3
  - ▲ Continuous monitor
  - ★ Diffusion tube
  - Sawbridgeworth AQMA
  - Bishops Stortford AQMA
  - Site of Special Scientific Interest (SSSI)



Rev.	Date	Description of revision	Drawn	Checked	Reviewed	Approved
0	12/16	ISSUED FOR PLANNING APPLICATION	LM	JB	CC	PM

Drawing Status: PRELIMINARY DESIGN



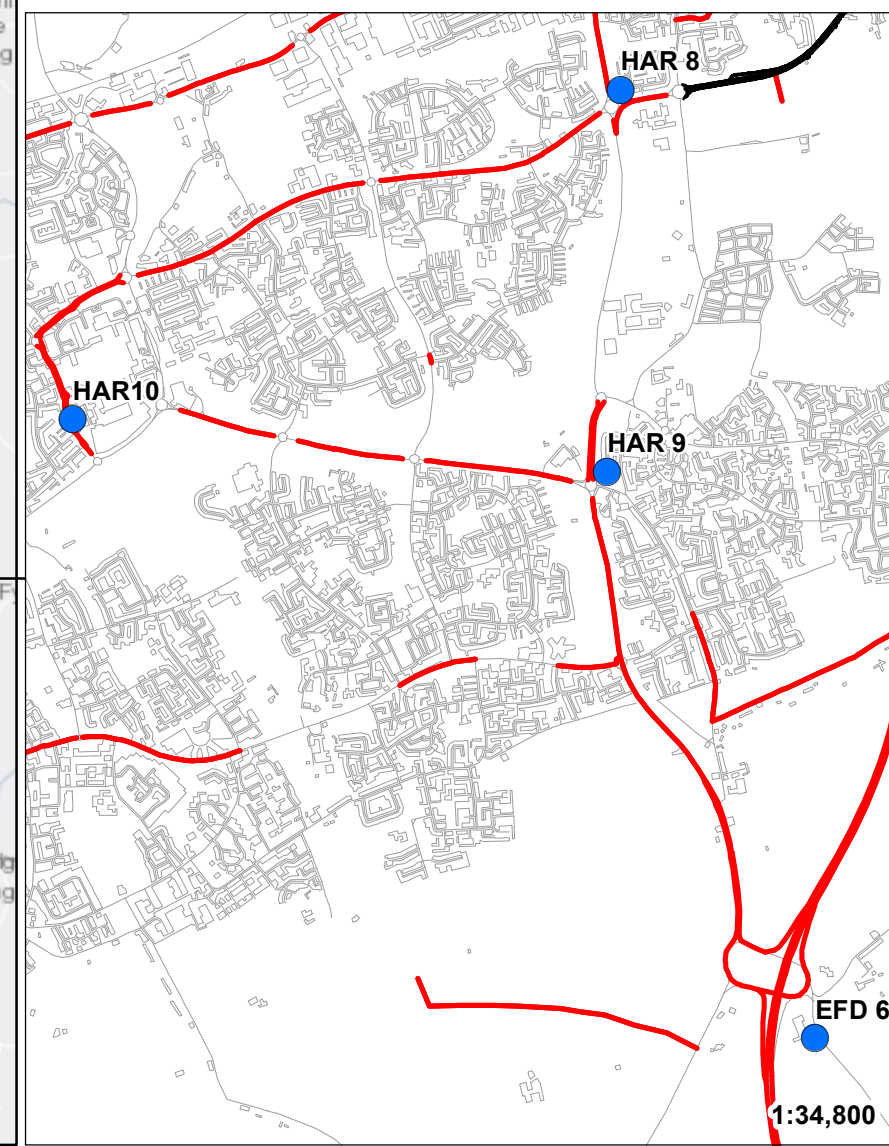
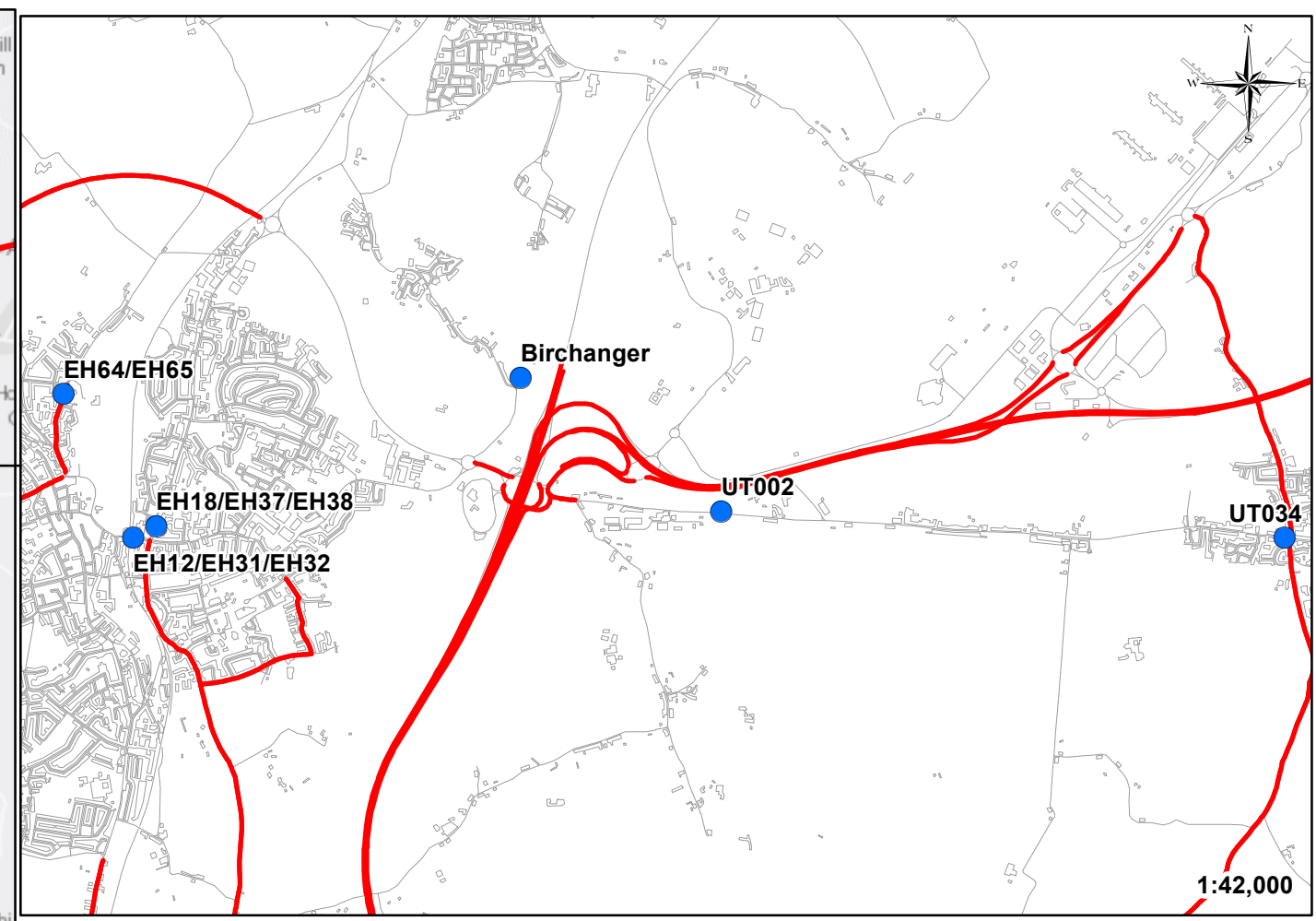
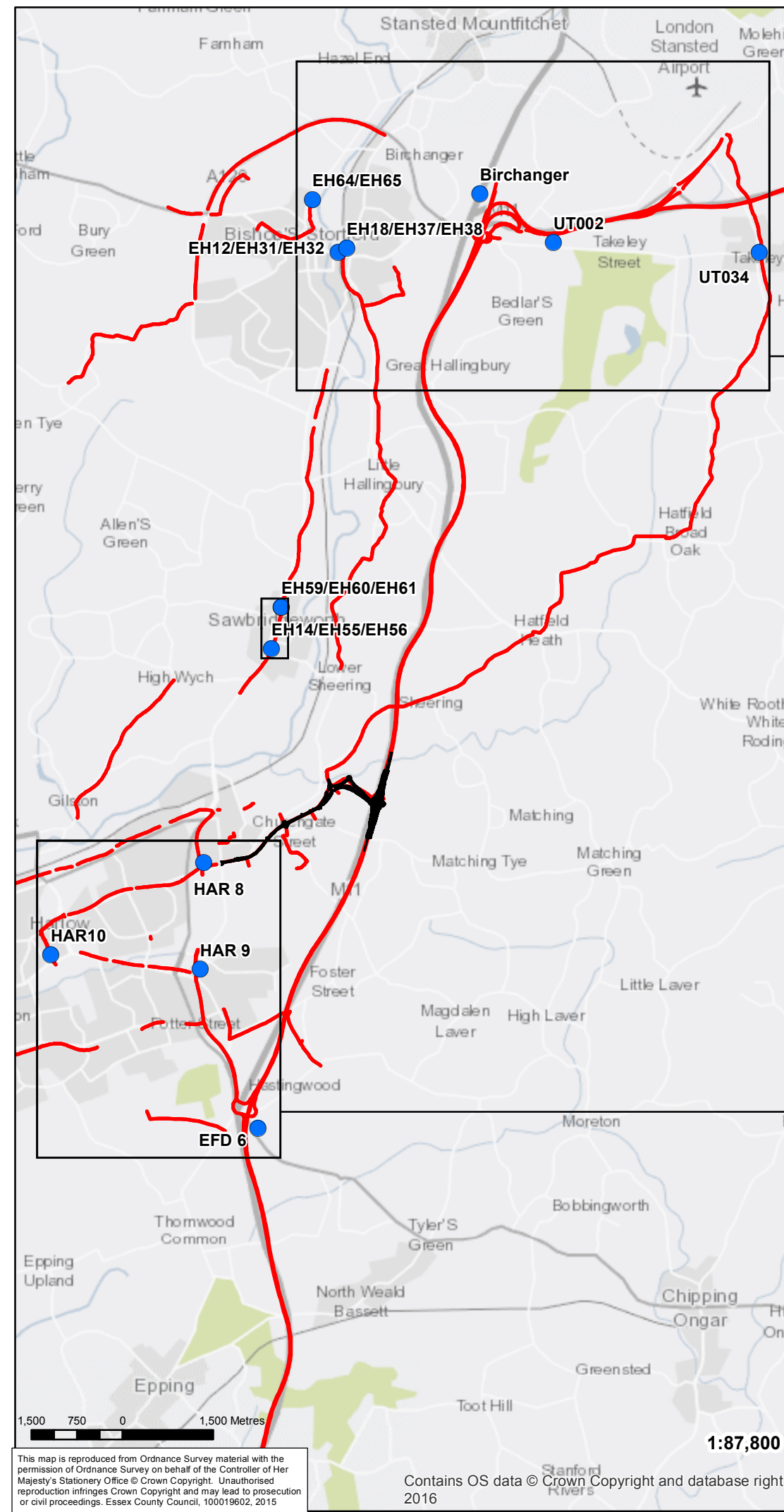
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Scheme Title: M11 JUNCTION 7A

Drawing Title: FIGURE 5-1  
AIR QUALITY STUDY AREA  
(CONSTRAINTS PLAN AND LA'S  
MONITORING LOCATIONS)  
SHEET 1 OF 2

DESIGNED	DRAWN	CHECKED	REVIEWED	APPROVED
LM	LM	JB	CC	PM
DATE	DATE	DATE	DATE	DATE
15/12/2016	15/12/2016	15/12/2016	15/12/2016	15/12/2016
DRAWING UNITS U.N.O.		SCALE AT A3 (420 x 297 mm)		
		1:93,000		
DRAWING NO. B3553F05-0000-DR-0137				REV. P0

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**Notes**

- Do not scale

**Key**

- Design Iteration 1 PCF Stage 3
- Affected road network
- Verification location

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0	12/16	ISSUED FOR PLANNING APPLICATION	LM	JB	CC	PM

Drawing Status: PRELIMINARY DESIGN

**RINGWAY JACOBS** | **Essex County Council**

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Scheme Title: M11 JUNCTION 7A

Drawing Title: **FIGURE 5-1**  
**AIR QUALITY STUDY AREA**  
**(AIR QUALITY AFFECTED ROAD NETWORK**  
**AND VERIFICATION LOCATIONS)**  
**SHEET 2 OF 2**

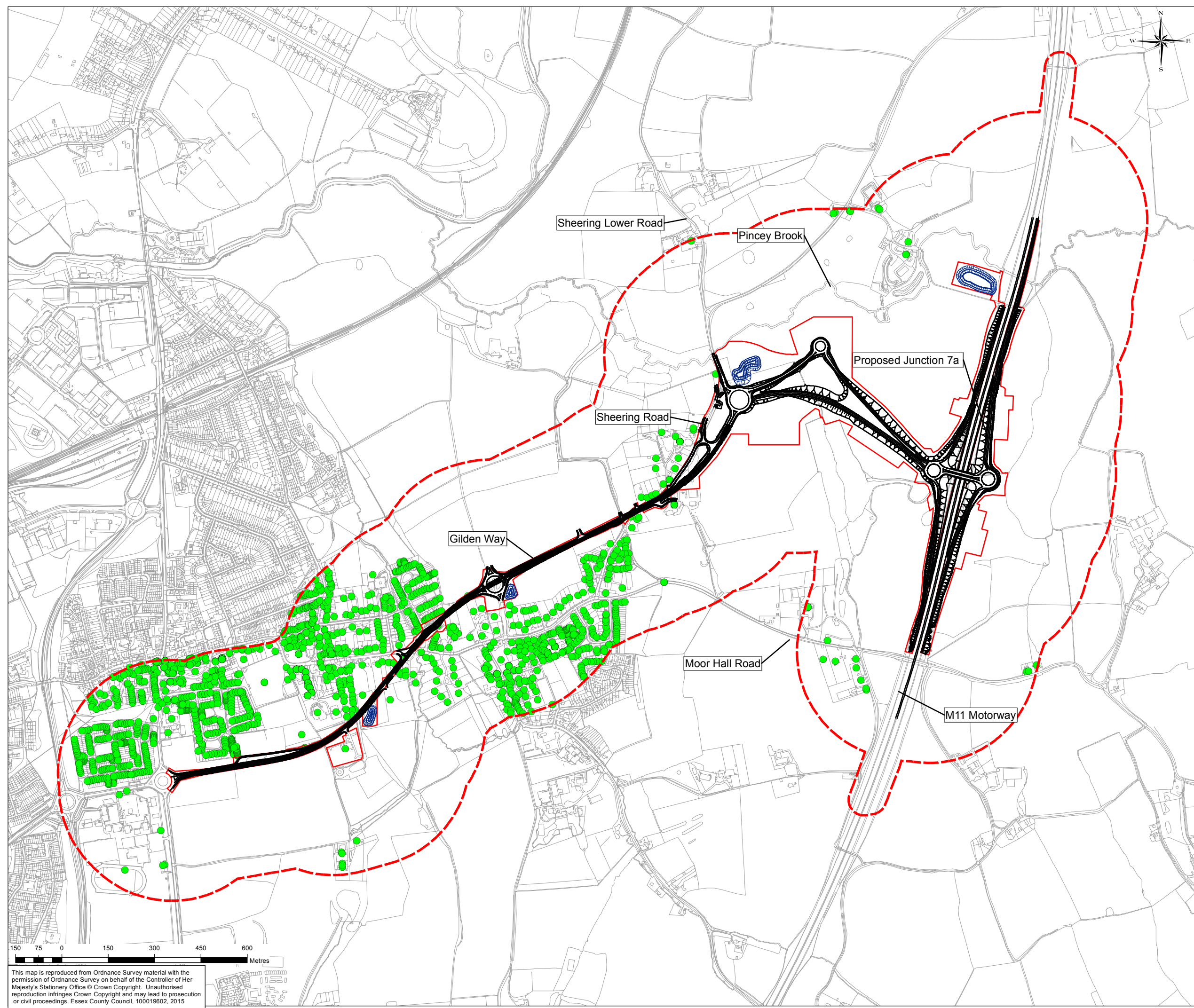
DESIGNED	DRAWN	CHECKED	REVIEWED	APPROVED
LM	LM	JB	CC	PM
DATE	DATE	DATE	DATE	DATE
15/12/2016	15/12/2016	15/12/2016	15/12/2016	15/12/2016

DRAWING UNITS U.N.O. SCALE AT A3 (420 x 297 mm)  
1:87,800

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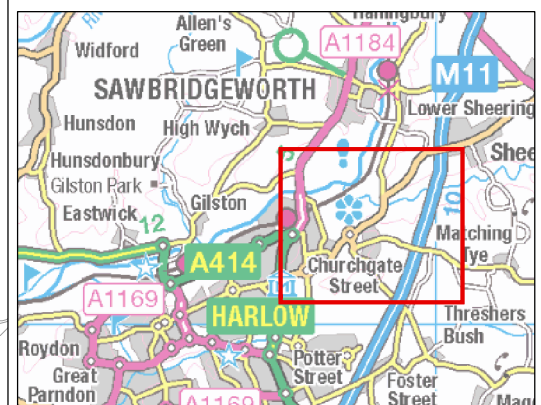


**Notes**

1. Do not scale

**Key**

- Design iteration 1 PCF stage 3
- Attenuation pond
- Redline boundary
- Redline boundary 350m buffer
- Sensitive receptor



Rev.	Date	Description of revision	Drawn	Checked	Reviewed	Approved
0	12/16	ISSUED FOR PLANNING APPLICATION	LM	JB	CC	PM

Drawing Status: PRELIMINARY DESIGN



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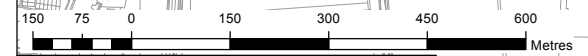
Scheme Title: M11 JUNCTION 7A

Drawing Title: FIGURE 5-2 AIR QUALITY CONSTRUCTION ASSESSMENT

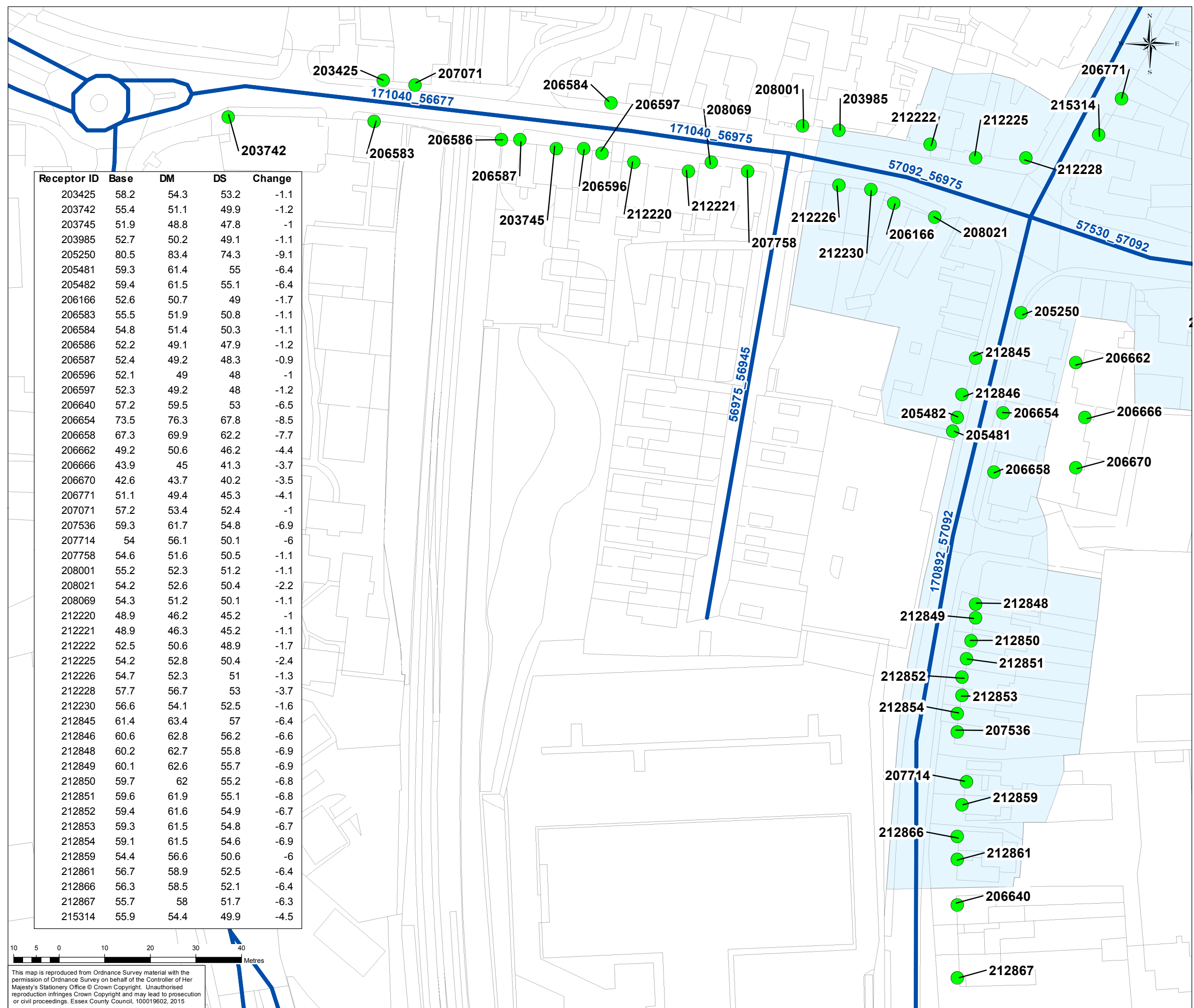
DESIGNED	DRAWN	CHECKED	REVIEWED	APPROVED
LM	LM	JB	CC	PM
DATE	DATE	DATE	DATE	DATE
15/12/2016	15/12/2016	15/12/2016	15/12/2016	15/12/2016

DRAWING UNITS U.N.O. SCALE AT A3 (420 x 297 mm) 1:11,500

DRAWING NO. B3553F05-0000-DR-0139 REV. P0



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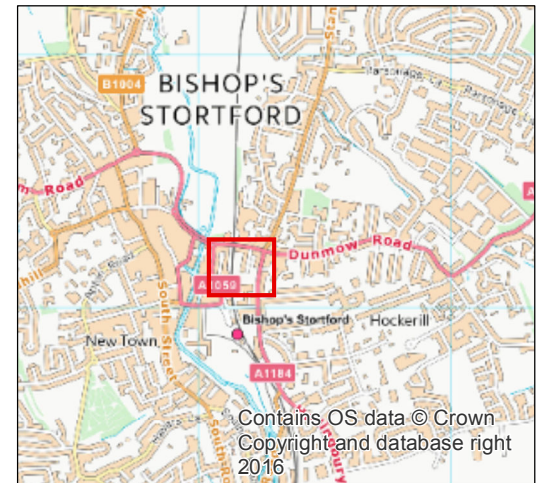
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203425	58.2	54.3	53.2	-1.1
203742	55.4	51.1	49.9	-1.2
203745	51.9	48.8	47.8	-1
203985	52.7	50.2	49.1	-1.1
205250	80.5	83.4	74.3	-9.1
205481	59.3	61.4	55	-6.4
205482	59.4	61.5	55.1	-6.4
206166	52.6	50.7	49	-1.7
206583	55.5	51.9	50.8	-1.1
206584	54.8	51.4	50.3	-1.1
206586	52.2	49.1	47.9	-1.2
206587	52.4	49.2	48.3	-0.9
206596	52.1	49	48	-1
206597	52.3	49.2	48	-1.2
206640	57.2	59.5	53	-6.5
206654	73.5	76.3	67.8	-8.5
206658	67.3	69.9	62.2	-7.7
206662	49.2	50.6	46.2	-4.4
206666	43.9	45	41.3	-3.7
206670	42.6	43.7	40.2	-3.5
206771	51.1	49.4	45.3	-4.1
207071	57.2	53.4	52.4	-1
207536	59.3	61.7	54.8	-6.9
207714	54	56.1	50.1	-6
207758	54.6	51.6	50.5	-1.1
208001	55.2	52.3	51.2	-1.1
208021	54.2	52.6	50.4	-2.2
208069	54.3	51.2	50.1	-1.1
212220	48.9	46.2	45.2	-1
212221	48.9	46.3	45.2	-1.1
212222	52.5	50.6	48.9	-1.7
212225	54.2	52.8	50.4	-2.4
212226	54.7	52.3	51	-1.3
212228	57.7	56.7	53	-3.7
212230	56.6	54.1	52.5	-1.6
212845	61.4	63.4	57	-6.4
212846	60.6	62.8	56.2	-6.6
212848	60.2	62.7	55.8	-6.9
212849	60.1	62.6	55.7	-6.9
212850	59.7	62	55.2	-6.8
212851	59.6	61.9	55.1	-6.8
212852	59.4	61.6	54.9	-6.7
212853	59.3	61.5	54.8	-6.7
212854	59.1	61.5	54.6	-6.9
212859	54.4	56.6	50.6	-6
212861	56.7	58.9	52.5	-6.4
212866	56.3	58.5	52.1	-6.4
212867	55.7	58	51.7	-6.3
215314	55.9	54.4	49.9	-4.5



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**Notes**  
1. Do not scale

**Key**  
● Receptor included in modelling  
— Modelled road network  
■ Bishops Stortford AQMA



Rev.	Date	Description of revision	Drawn	Checked	Reviewed	Approved
0	12/16	ISSUED FOR PLANNING APPLICATION	LM	JB	CC	PM

Drawing Status: PRELIMINARY DESIGN



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Tel: 0845 6037631 © Essex County Council

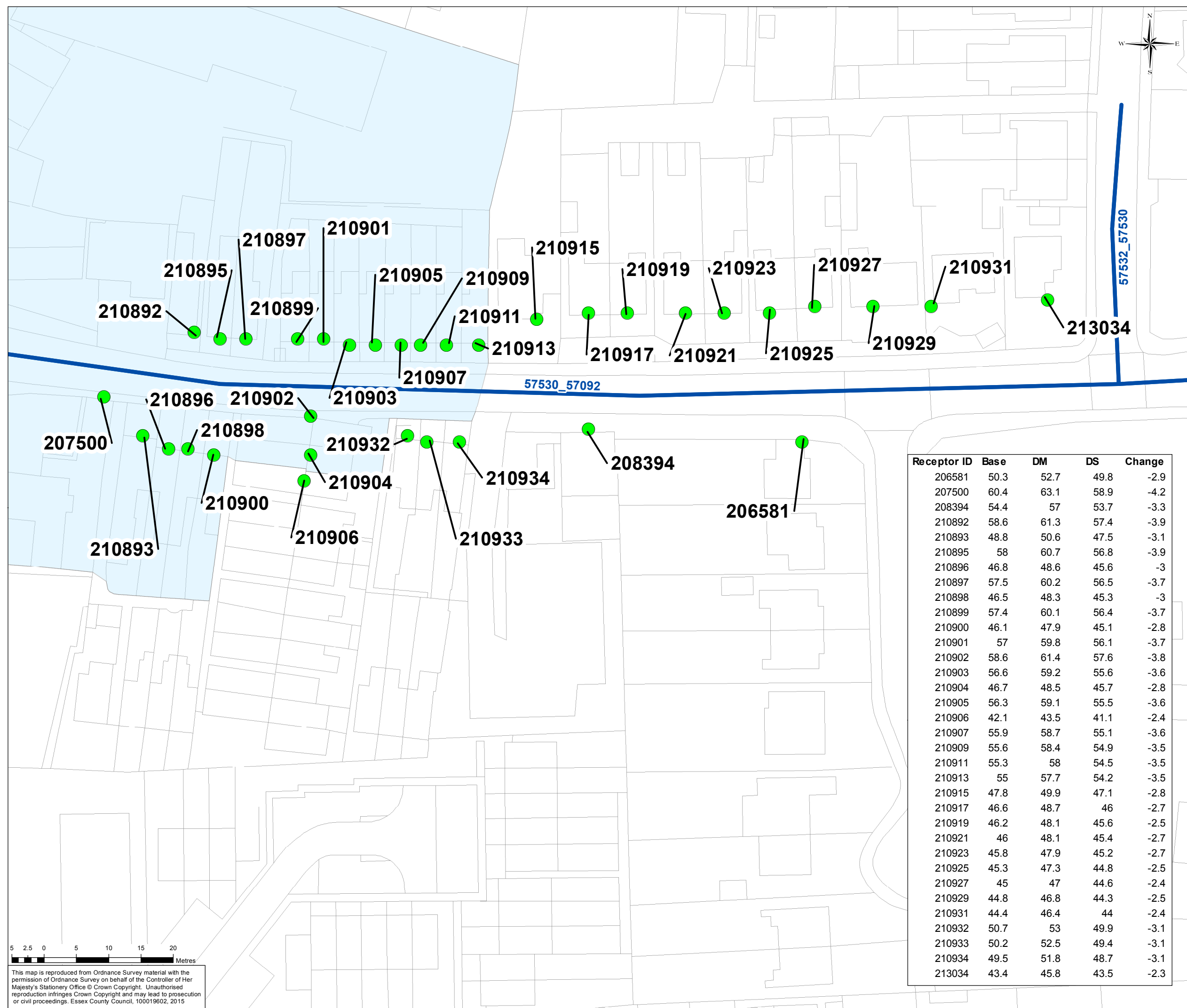
Scheme Title: M11 JUNCTION 7A

Drawing Title: FIGURE 5-3  
MODELLED ROAD NETWORK AND  
MODELLED RECEPTOR POINTS  
(Results shown as NO<sub>2</sub> concentration (µg/m<sup>3</sup>))  
SHEET 1 OF 7

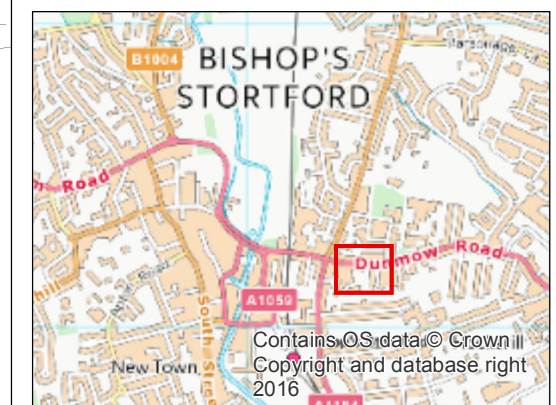
DESIGNED	DRAWN	CHECKED	REVIEWED	APPROVED
LM	LM	JB	CC	PM
DATE	DATE	DATE	DATE	DATE
15/12/2016	15/12/2016	15/12/2016	15/12/2016	15/12/2016

DRAWING UNITS U.N.O. SCALE AT A3 (420 x 297 mm)  
1:780

DRAWING NO. B3553F05-0000-DR-0140 REV. P0



- Notes**
- Do not scale
- Key**
- Modelled road network
  - Receptor included in modelling
  - Bishops Stortford AQMA



Receptor ID	Base	DM	DS	Change
206581	50.3	52.7	49.8	-2.9
207500	60.4	63.1	58.9	-4.2
208394	54.4	57	53.7	-3.3
210892	58.6	61.3	57.4	-3.9
210893	48.8	50.6	47.5	-3.1
210895	58	60.7	56.8	-3.9
210896	46.8	48.6	45.6	-3
210897	57.5	60.2	56.5	-3.7
210898	46.5	48.3	45.3	-3
210899	57.4	60.1	56.4	-3.7
210900	46.1	47.9	45.1	-2.8
210901	57	59.8	56.1	-3.7
210902	58.6	61.4	57.6	-3.8
210903	56.6	59.2	55.6	-3.6
210904	46.7	48.5	45.7	-2.8
210905	56.3	59.1	55.5	-3.6
210906	42.1	43.5	41.1	-2.4
210907	55.9	58.7	55.1	-3.6
210909	55.6	58.4	54.9	-3.5
210911	55.3	58	54.5	-3.5
210913	55	57.7	54.2	-3.5
210915	47.8	49.9	47.1	-2.8
210917	46.6	48.7	46	-2.7
210919	46.2	48.1	45.6	-2.5
210921	46	48.1	45.4	-2.7
210923	45.8	47.9	45.2	-2.7
210925	45.3	47.3	44.8	-2.5
210927	45	47	44.6	-2.4
210929	44.8	46.8	44.3	-2.5
210931	44.4	46.4	44	-2.4
210932	50.7	53	49.9	-3.1
210933	50.2	52.5	49.4	-3.1
210934	49.5	51.8	48.7	-3.1
213034	43.4	45.8	43.5	-2.3

Rev.	Date	Description of revision	Drawn	Checked	Reviewed	Approved
0	12/16	ISSUED FOR PLANNING APPLICATION	LM	JB	CC	PM

Drawing Status: PRELIMINARY DESIGN



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Scheme Title: M11 JUNCTION 7A

Drawing Title: FIGURE 5-3  
 MODELLED ROAD NETWORK AND  
 MODELLED RECEPTOR POINTS  
 (Results shown as NO<sub>2</sub> concentration (µg/m<sup>3</sup>))  
 SHEET 2 OF 7

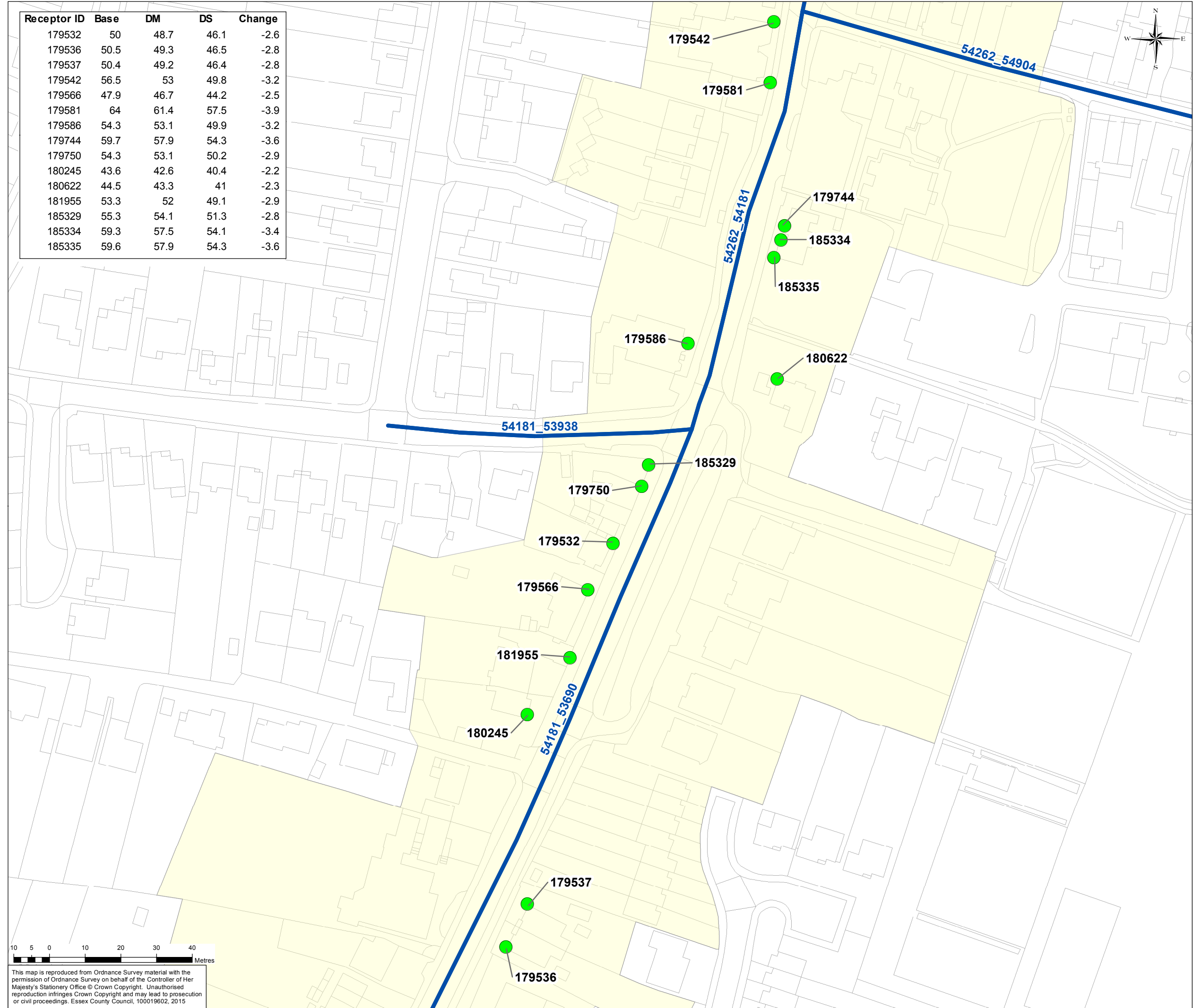
DESIGNED	DRAWN	CHECKED	REVIEWED	APPROVED
LM	LM	JB	CC	PM
DATE	DATE	DATE	DATE	DATE
15/12/2016	15/12/2016	15/12/2016	15/12/2016	15/12/2016

DRAWING UNITS U.N.O. SCALE AT A3 (420 x 297 mm)  
 1:550

DRAWING NO. B3553F05-0000-DR-0141 REV. P0

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Receptor ID	Base	DM	DS	Change
179532	50	48.7	46.1	-2.6
179536	50.5	49.3	46.5	-2.8
179537	50.4	49.2	46.4	-2.8
179542	56.5	53	49.8	-3.2
179566	47.9	46.7	44.2	-2.5
179581	64	61.4	57.5	-3.9
179586	54.3	53.1	49.9	-3.2
179744	59.7	57.9	54.3	-3.6
179750	54.3	53.1	50.2	-2.9
180245	43.6	42.6	40.4	-2.2
180622	44.5	43.3	41	-2.3
181955	53.3	52	49.1	-2.9
185329	55.3	54.1	51.3	-2.8
185334	59.3	57.5	54.1	-3.4
185335	59.6	57.9	54.3	-3.6

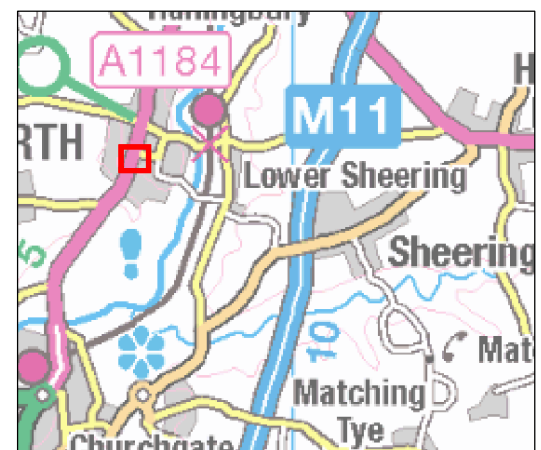


**Notes**

1. Do not scale

**Key**

- Modelled road network
- Receptor included in modelling
- Sawbridgeworth AQMA



Rev.	Date	Description of revision	Drawn	Checked	Review'd	Approv'd
0	12/16	ISSUED FOR PLANNING APPLICATION	LM	JB	CC	PM

Drawing Status: PRELIMINARY DESIGN



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Scheme Title: M11 JUNCTION 7A

Drawing Title: **FIGURE 5-3**  
**MODELLED ROAD NETWORK AND**  
**MODELLED RECEPTOR POINTS**  
(Results shown as NO<sub>2</sub> concentration (µg/m<sup>3</sup>))  
SHEET 3 OF 7

DESIGNED	DRAWN	CHECKED	REVIEWED	APPROVED
LM	LM	JB	CC	PM
DATE	DATE	DATE	DATE	DATE
15/12/2016	15/12/2016	15/12/2016	15/12/2016	15/12/2016

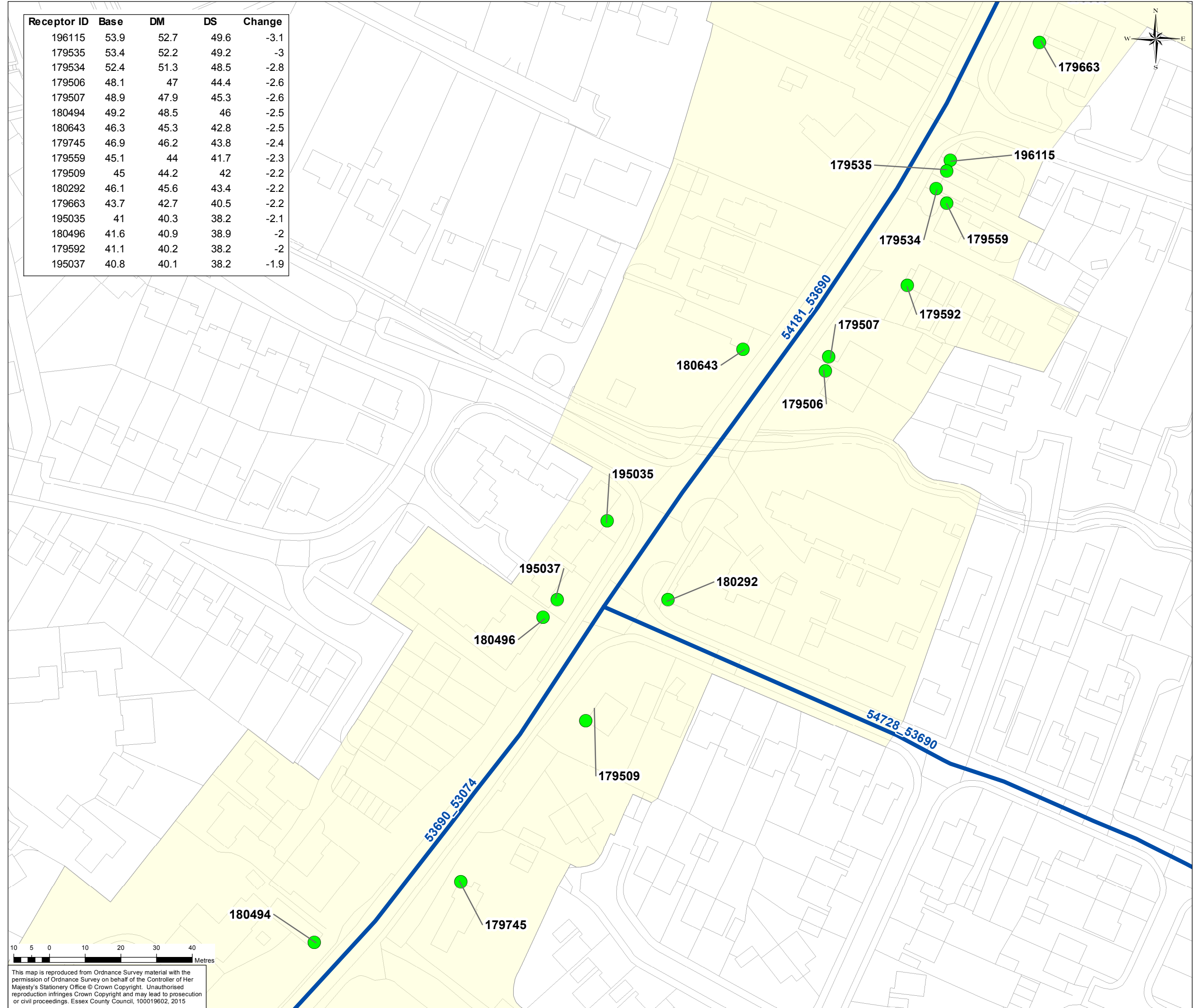
DRAWING UNITS U.N.O. SCALE AT A3 (420 x 297 mm) 1:1,000

DRAWING NO. B3553F05-0000-DR-0143 REV. P0



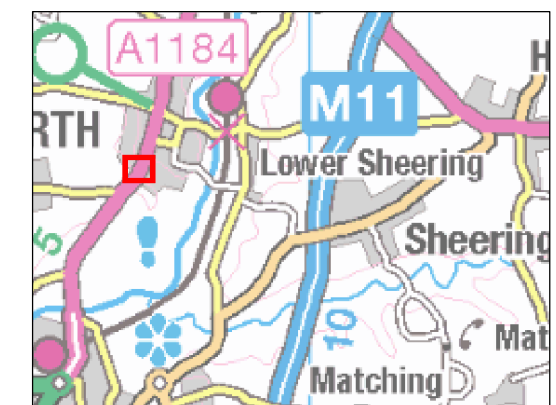
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Receptor ID	Base	DM	DS	Change
196115	53.9	52.7	49.6	-3.1
179535	53.4	52.2	49.2	-3
179534	52.4	51.3	48.5	-2.8
179506	48.1	47	44.4	-2.6
179507	48.9	47.9	45.3	-2.6
180494	49.2	48.5	46	-2.5
180643	46.3	45.3	42.8	-2.5
179745	46.9	46.2	43.8	-2.4
179559	45.1	44	41.7	-2.3
179509	45	44.2	42	-2.2
180292	46.1	45.6	43.4	-2.2
179663	43.7	42.7	40.5	-2.2
195035	41	40.3	38.2	-2.1
180496	41.6	40.9	38.9	-2
179592	41.1	40.2	38.2	-2
195037	40.8	40.1	38.2	-1.9



**Notes**  
1. Do not scale

**Key**  
 Modelled road network  
 Receptor included in modelling  
 Sawbridgeworth AQMA



Rev.	Date	Description of revision	Drawn	Checked	Review'd	Approved
0	12/16	ISSUED FOR PLANNING APPLICATION	LM	JB	CC	PM

Drawing Status: PRELIMINARY DESIGN



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Scheme Title: M11 JUNCTION 7A

Drawing Title: **FIGURE 5-3**  
**MODELLED ROAD NETWORK AND**  
**MODELLED RECEPTOR POINTS**  
(Results shown as NO<sub>2</sub> concentration (µg/m<sup>3</sup>))  
SHEET 4 OF 7

DESIGNED	DRAWN	CHECKED	REVIEWED	APPROVED
LM	LM	JB	CC	PM
DATE	DATE	DATE	DATE	DATE
15/12/2016	15/12/2016	15/12/2016	15/12/2016	15/12/2016

DRAWING UNITS U.N.O. SCALE AT A3 (420 x 297 mm)  
1:1,000

DRAWING NO. B3553F05-0000-DR-0144 REV. P0

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Receptor ID	Base	DM	DS	Change
222014	43.8	46.9	50.6	3.7
222015	41.5	44.4	48	3.6
222326	44.5	47.7	51.7	4
222753	44	46.5	48.8	2.3
222768	44.9	48.1	52.1	4
223106	44.1	47.2	51	3.8

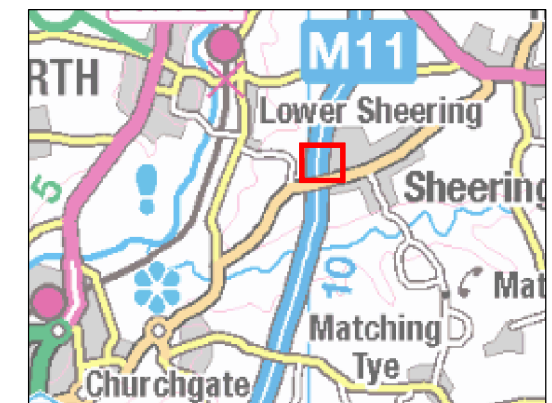
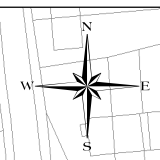
- 222015
- 222014
- 222326
- 222768
- 223106

**Notes**

- 1. Do not scale

**Key**

- Receptor included in modelling
- Modelled road network



Rev.	Date	Description of revision	Drawn	Checked	Review'd	Approv'd
0	12/16	ISSUED FOR PLANNING APPLICATION	LM	JB	CC	PM

Drawing Status: PRELIMINARY DESIGN



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Scheme Title: M11 JUNCTION 7A

Drawing Title: FIGURE 5-3  
MODELLED ROAD NETWORK AND  
MODELLED RECEPTOR POINTS  
(Results shown as NO<sub>2</sub> concentration (µg/m<sup>3</sup>))  
SHEET 5 OF 7

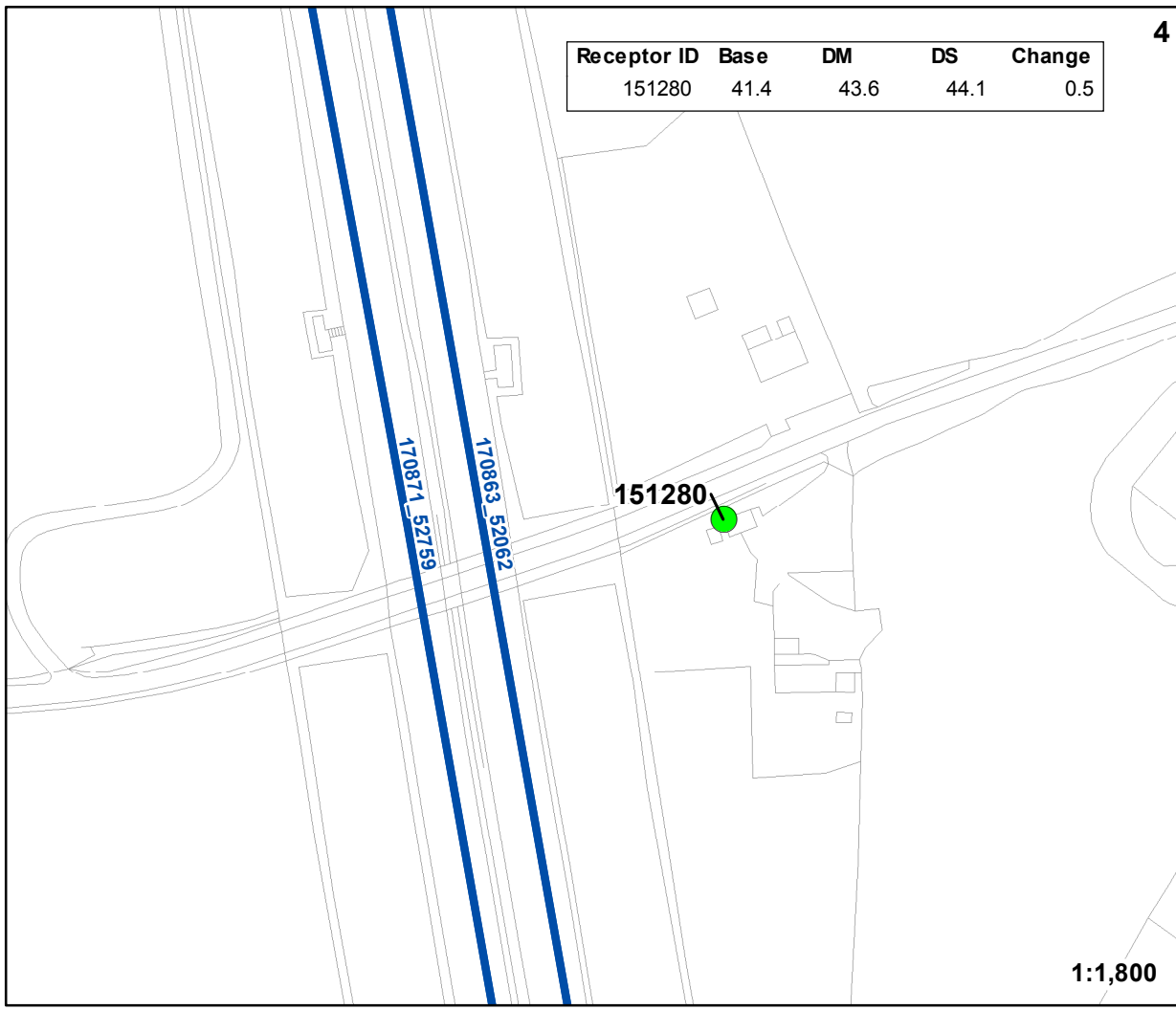
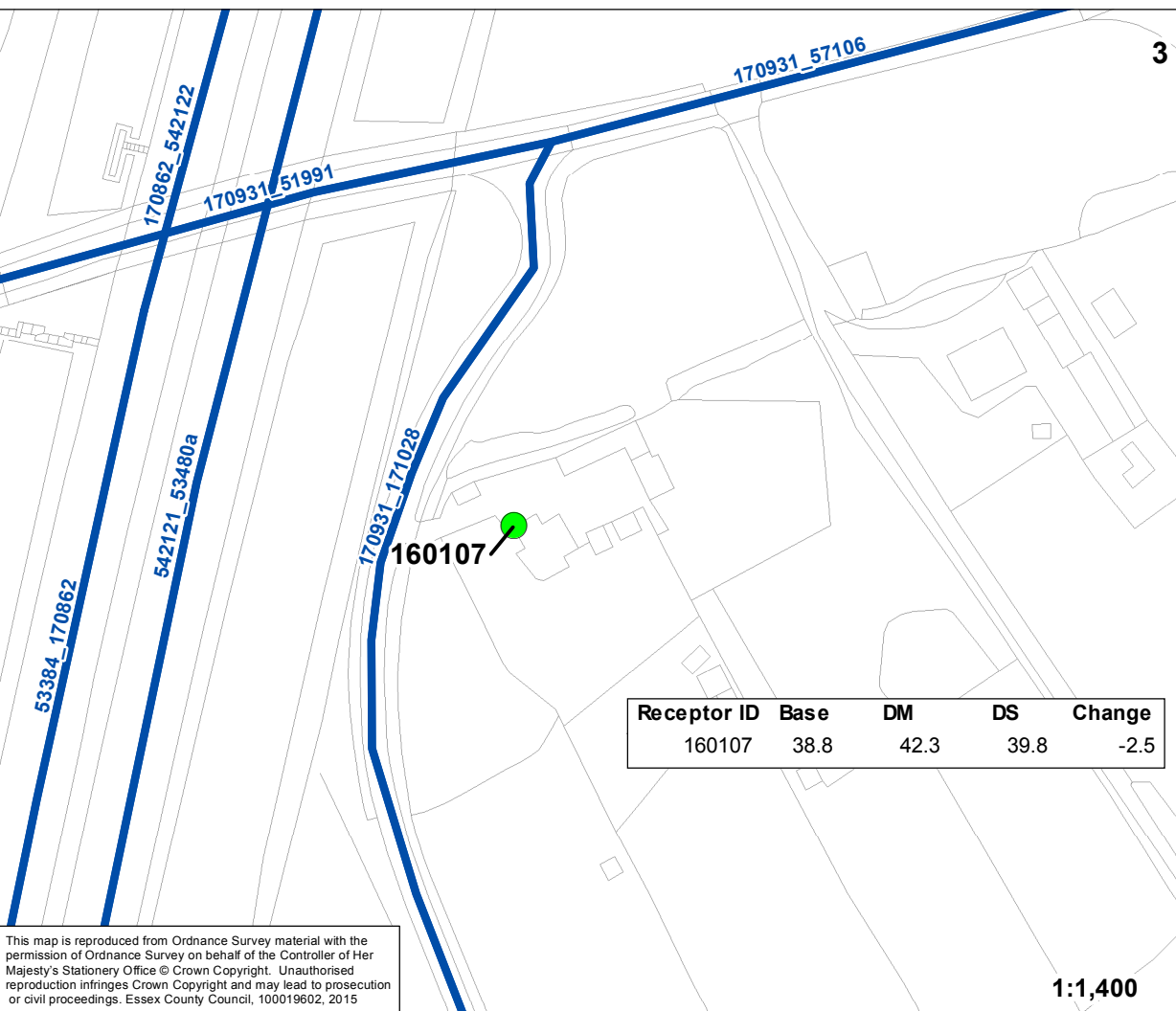
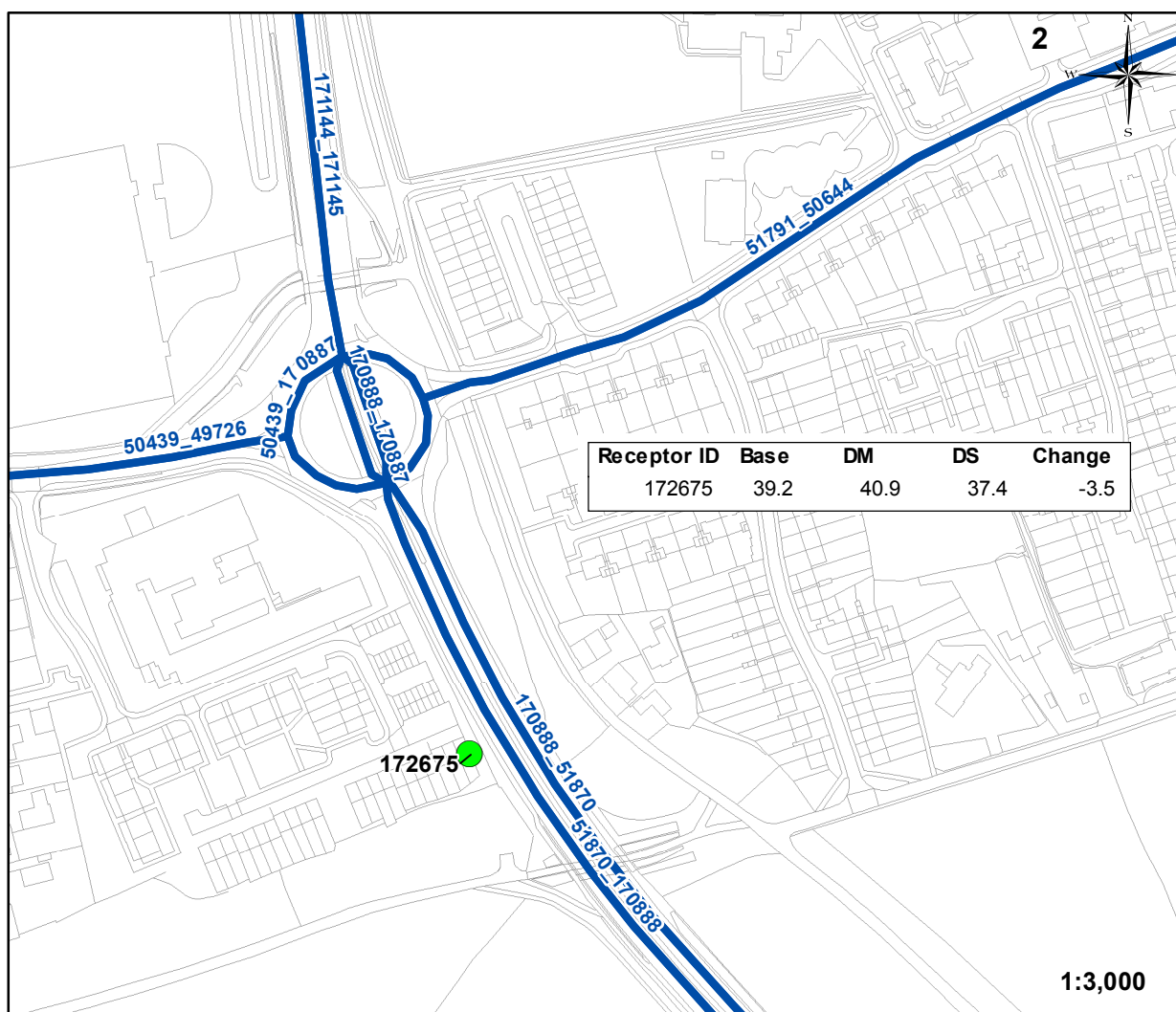
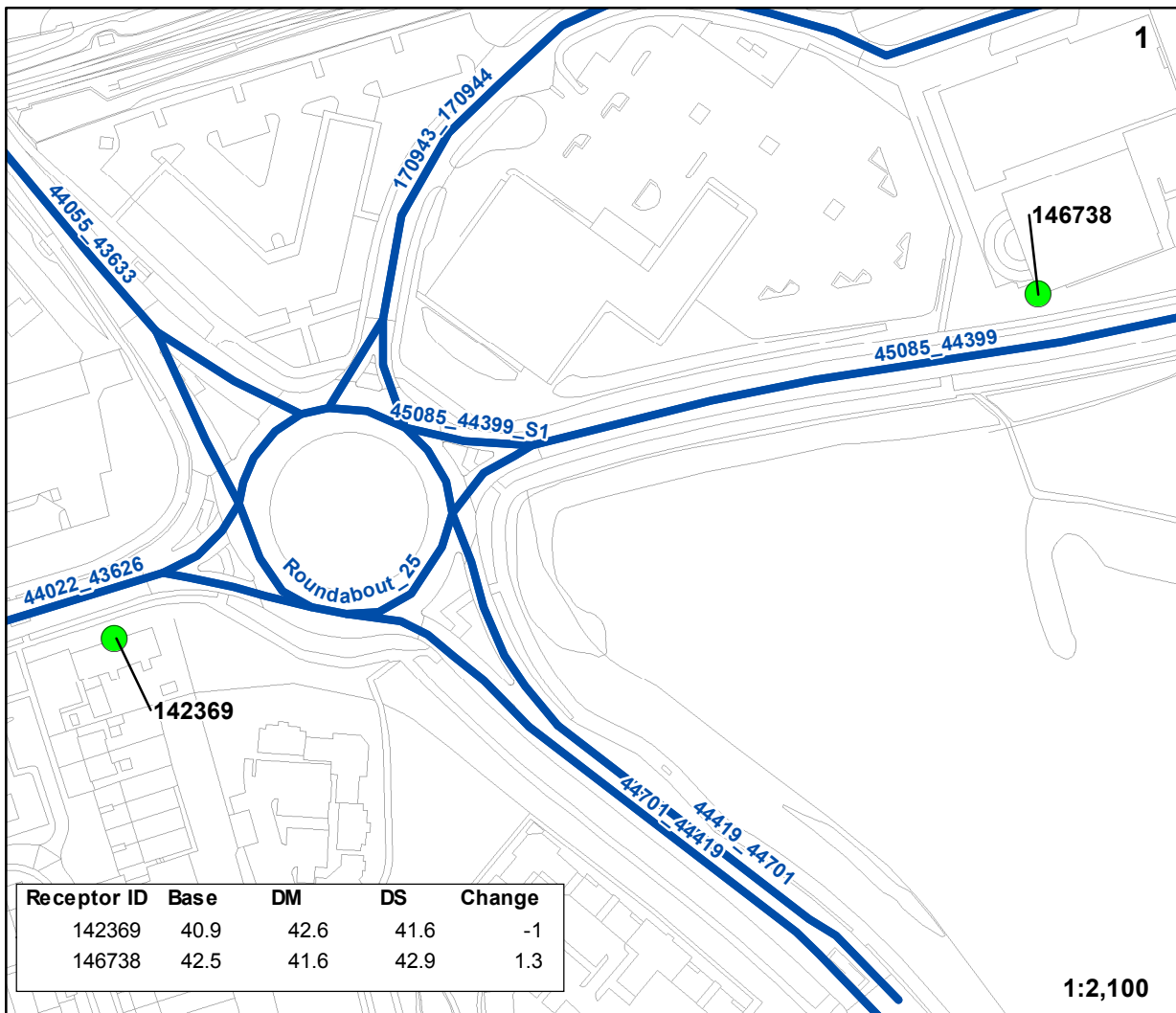
DESIGNED	DRAWN	CHECKED	REVIEWED	APPROVED
LM	LM	JB	CC	PM
DATE	DATE	DATE	DATE	DATE
15/12/2016	15/12/2016	15/12/2016	15/12/2016	15/12/2016

DRAWING UNITS U.N.O. SCALE AT A3 (420 x 297 mm) 1:1,500

DRAWING NO. B3553F05-0000-DR-0145 REV. P0

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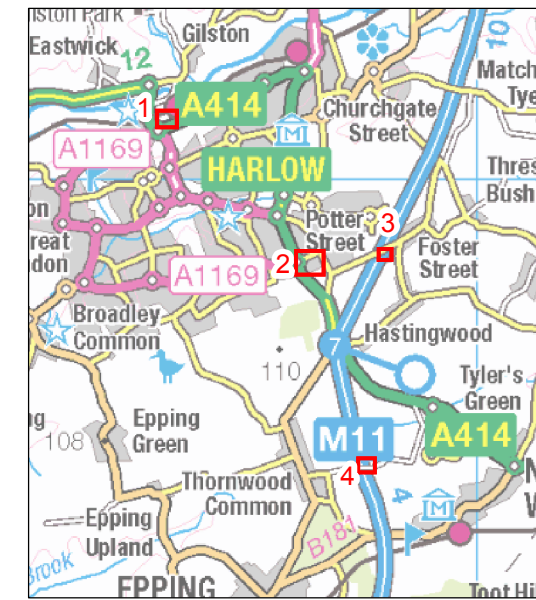


Notes

- 1. Do not scale

Key

- Modelled road network
- Receptor included in modelling



Rev.	Date	Description of revision	Drawn	Checked	Reviewed	Approved
0	12/16	ISSUED FOR PLANNING APPLICATION	LM	JB	CC	PM

Drawing Status: PRELIMINARY DESIGN



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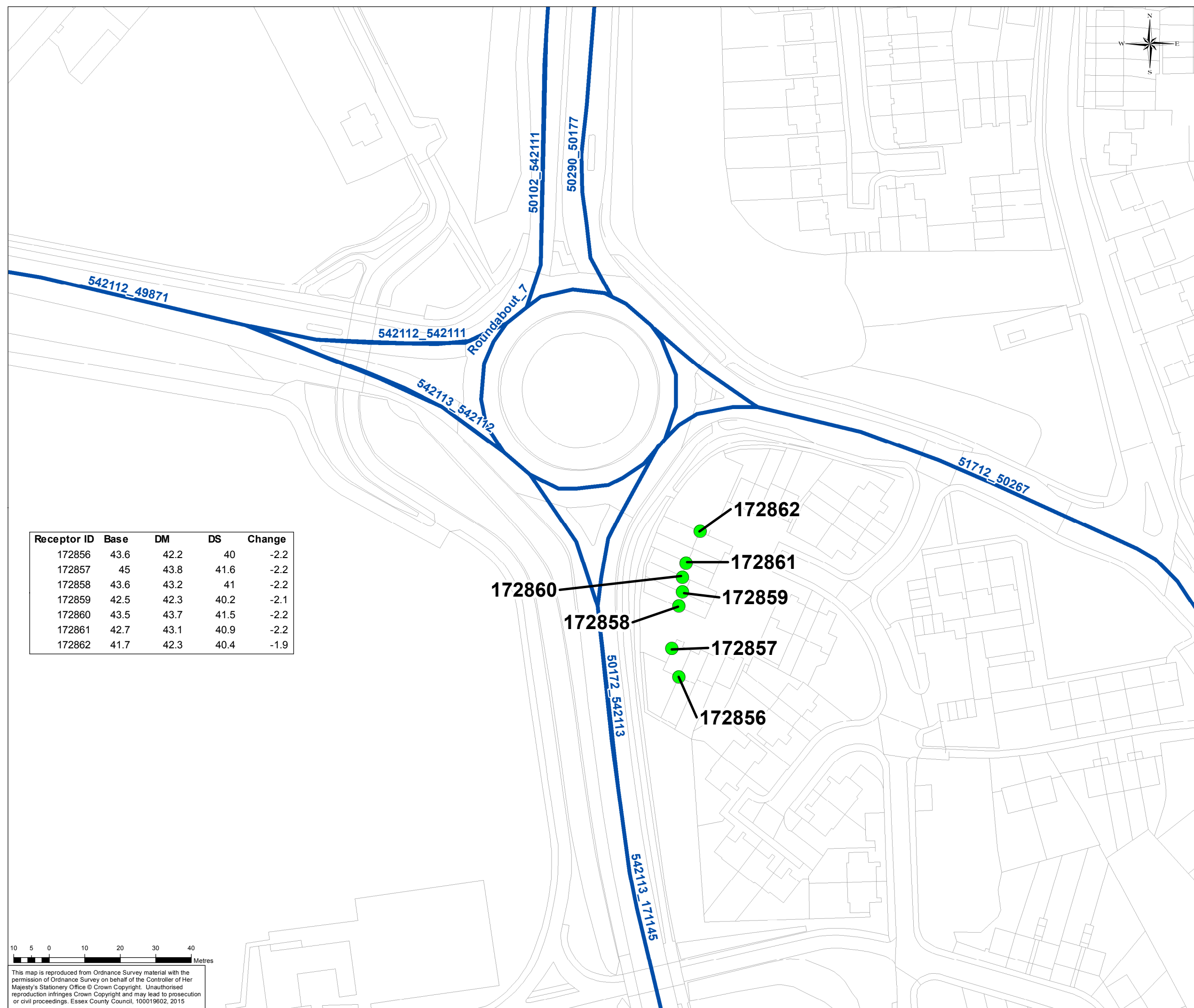
Scheme Title: M11 JUNCTION 7A

Drawing Title: FIGURE 5-3  
MODELLLED ROAD NETWORK AND  
MODELLLED RECEPTOR POINTS  
(Results shown as NO<sub>2</sub> concentration (µg/m<sup>3</sup>))  
SHEET 6 OF 7

DESIGNED	DRAWN	CHECKED	REVIEWED	APPROVED
LM	LM	JB	CC	PM
DATE	DATE	DATE	DATE	DATE
15/12/2016	15/12/2016	15/12/2016	15/12/2016	15/12/2016

DRAWING UNITS U.N.O. SCALE AT A3 (420 x 297 mm)

DRAWING NO. B3553F05-0000-DR-0146 REV. P0



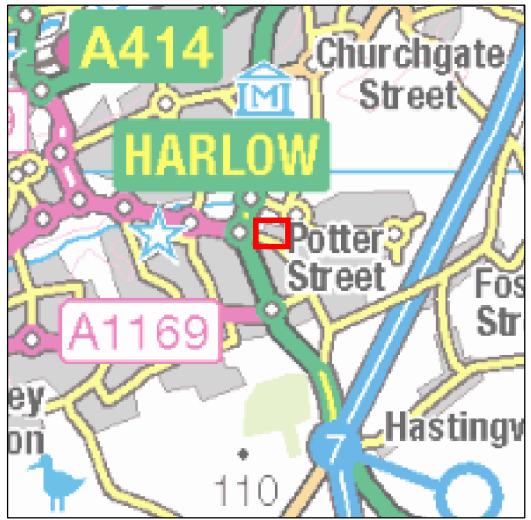
Receptor ID	Base	DM	DS	Change
172856	43.6	42.2	40	-2.2
172857	45	43.8	41.6	-2.2
172858	43.6	43.2	41	-2.2
172859	42.5	42.3	40.2	-2.1
172860	43.5	43.7	41.5	-2.2
172861	42.7	43.1	40.9	-2.2
172862	41.7	42.3	40.4	-1.9

**Notes**

1. Do not scale

**Key**

- Modelled road network
- Receptor included in modelling



Rev.	Date	Description of revision	Drawn	Checked	Reviewed	Approved
0	12/16	ISSUED FOR PLANNING APPLICATION	LM	JB	CC	PM

Drawing Status: PRELIMINARY DESIGN



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Scheme Title: M11 JUNCTION 7A

Drawing Title: FIGURE 5-3  
MODELLED ROAD NETWORK AND  
MODELLED RECEPTOR POINTS  
(Results shown as NO<sub>2</sub> concentration (µg/m<sup>3</sup>))  
SHEET 7 OF 7

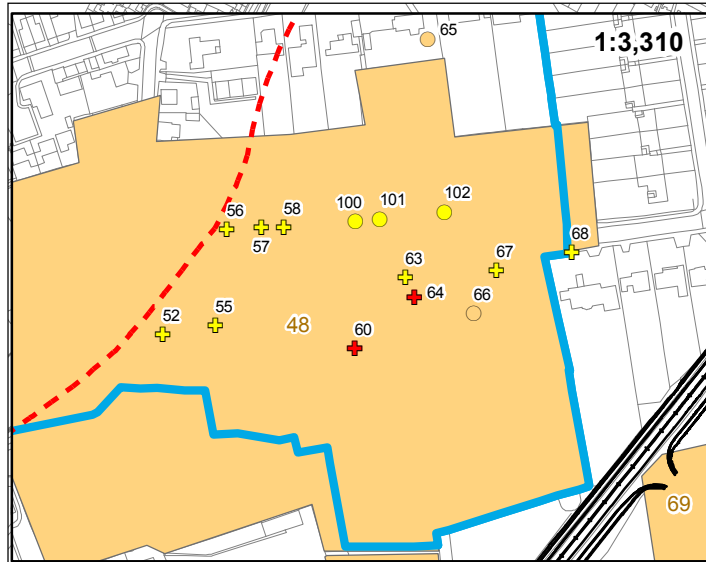
DESIGNED	DRAWN	CHECKED	REVIEWED	APPROVED
LM	LM	JB	CC	PM
DATE	DATE	DATE	DATE	DATE
15/12/2016	15/12/2016	15/12/2016	15/12/2016	15/12/2016

DRAWING UNITS U.N.O. SCALE AT A3 (420 x 297 mm)  
1:1,000

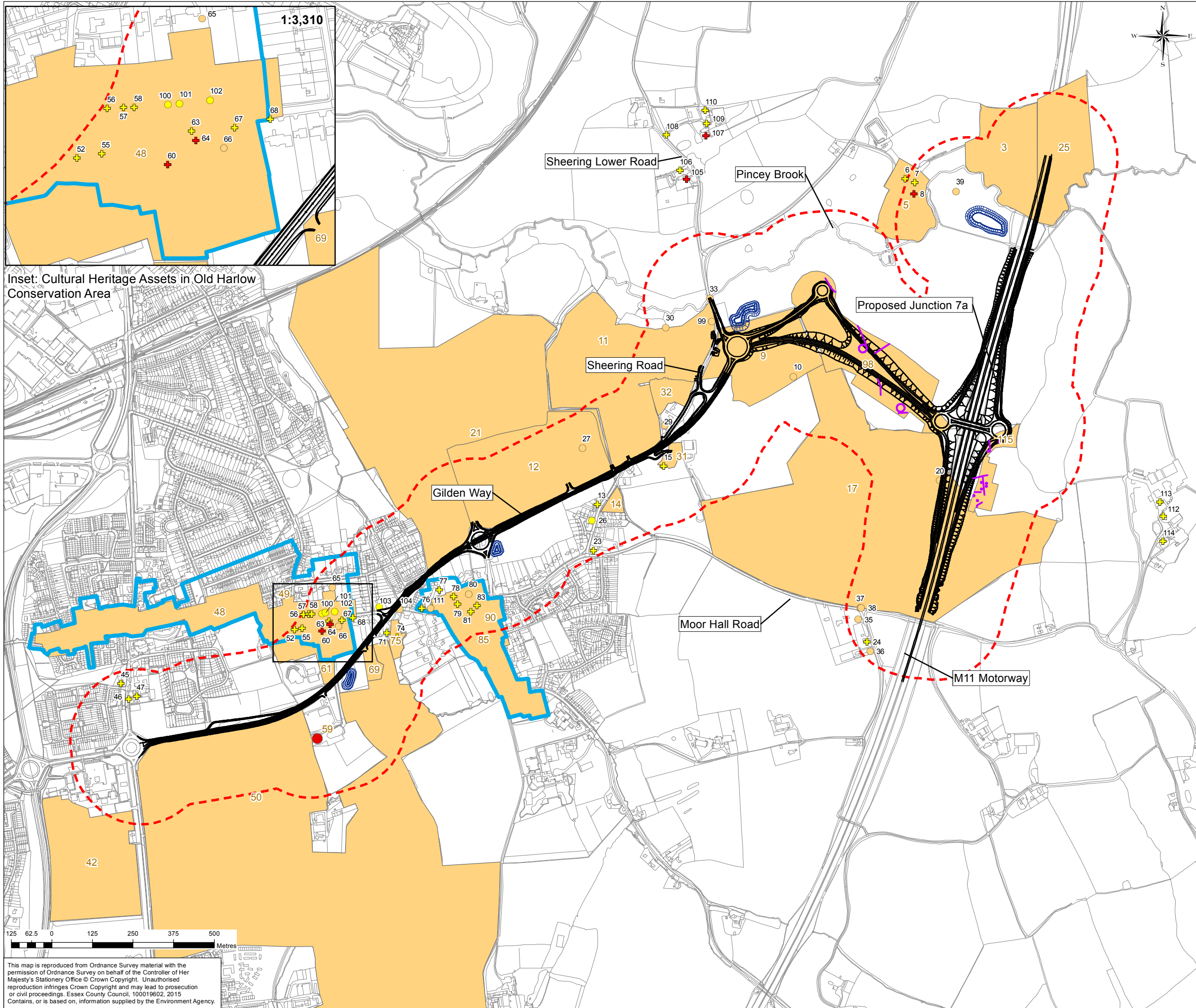
DRAWING NO. B3553F05-0000-DR-0147 REV. P0



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Inset: Cultural Heritage Assets in Old Harlow Conservation Area

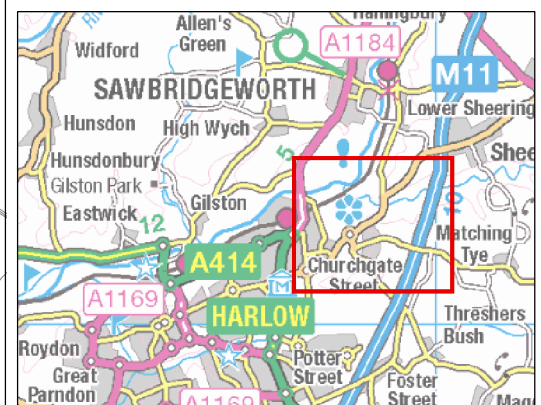


Notes

1. Do not scale

Key

- Design iteration 1 PCF stage 3
- Attenuation pond
- - - Study area (200m)
- Conservation area
- Scheduled monument
- Undesignated cultural heritage asset
- Undesignated cultural heritage asset
- ⊕ Grade II\* listed building
- ⊕ Grade II listed building
- Locally listed building
- Geophysical anomaly



Rev.	Date	Description of revision	Drawn	Checked	Reviewed	Approved
0	12/16	ISSUED FOR PLANNING APPLICATION	EW	CB	RM	PM

Drawing Status: PRELIMINARY DESIGN



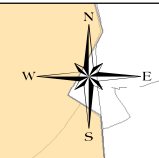
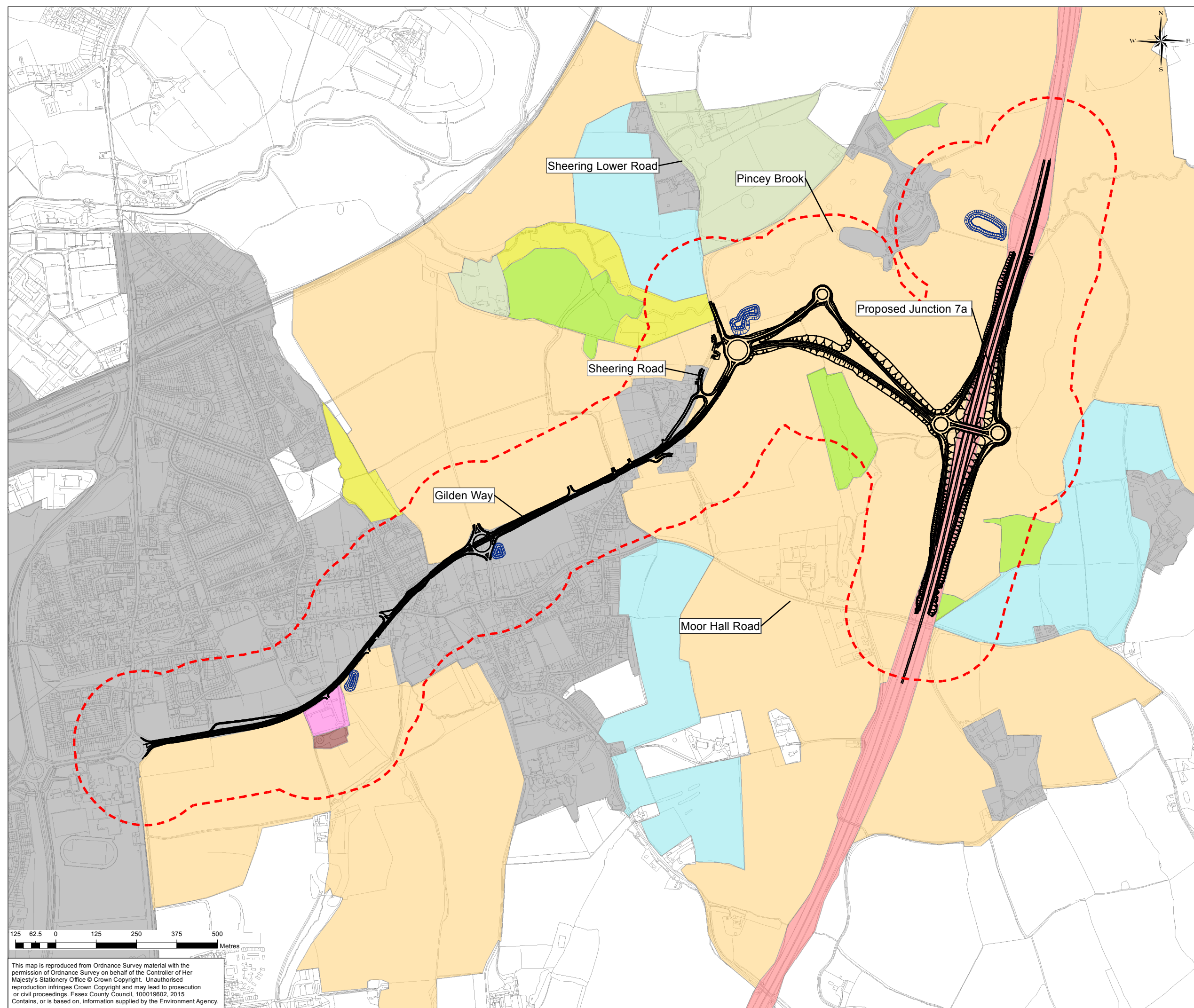
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Tel: 0845 6037631 © Essex County Council

Scheme Title: M11 JUNCTION 7A

Drawing Title: FIGURE 6-1 CULTURAL HERITAGE - ARCHAEOLOGICAL REMAINS AND HISTORIC BUILDINGS

DESIGNED	DRAWN	CHECKED	REVIEWED	APPROVED
EW	EW	CB	RM	PM
DATE	DATE	DATE	DATE	DATE
16/12/2016	16/12/2016	16/12/2016	16/12/2016	16/12/2016
DRAWING UNITS U.N.O.			SCALE AT A3 (420 x 297 mm)	
			1:11,000	
DRAWING NO. B3553F05-0000-DR-0015				REV. P0

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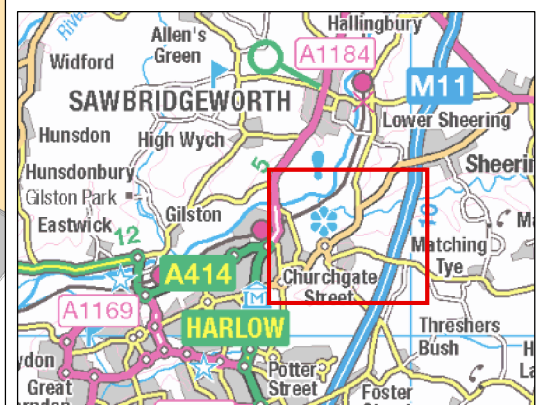


**Notes**

1. Do not scale

**Key**

- Design iteration 1 PCF stage 3
- Attenuation pond
- - - Study area (200m)
- 19th & 20th century woodland plantation
- 20th century agriculture
- 20th century communications (M11)
- Built up area
- Enclosed meadow pasture
- Historic earthworks
- Informal parkland
- Modern horticulture
- Pre 18th century enclosure



Rev.	Date	Description of revision	Drawn	Checked	Review'd	Approv'd
0	12/16	ISSUED FOR PLANNING APPLICATION	EW	CB	RM	PM

Drawing Status: PRELIMINARY DESIGN

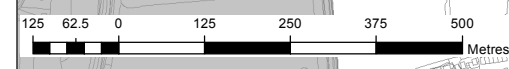


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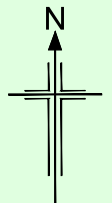
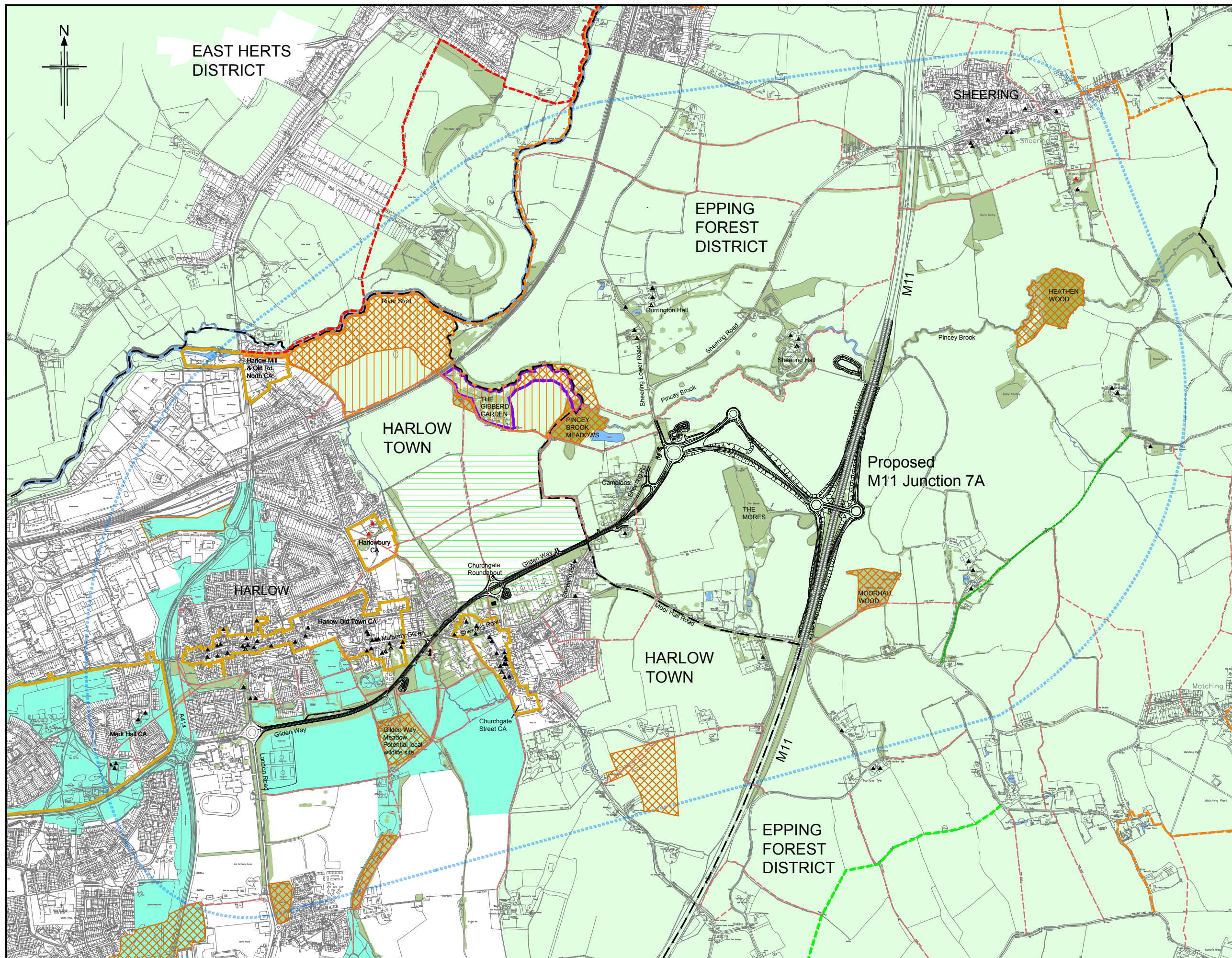
Scheme Title: M11 JUNCTION 7A

Drawing Title: FIGURE 6-2 CULTURAL HERITAGE - HISTORIC LANDSCAPE TYPES

DESIGNED	DRAWN	CHECKED	REVIEWED	APPROVED
EW	EW	CB	RM	PM
DATE	DATE	DATE	DATE	DATE
16/12/2016	16/12/2016	16/12/2016	16/12/2016	16/12/2016
DRAWING UNITS U.N.O.		SCALE AT A3 (420 x 297 mm)		
		1:11,000		
DRAWING NO. B3553F05-0000-DR-0014				REV. P0



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EAST HERTS DISTRICT

EPPING FOREST DISTRICT

SHEERING

HARLOW TOWN

HARLOW

HARLOW TOWN

EPPING FOREST DISTRICT

Proposed M11 Junction 7A

Notes

1. Do not scale.

Key

- Conservation Areas (Harlow Old Town CA etc)
- Grade I listed building
- Grade II\* listed building
- Grade II listed building or structure
- Ancient semi-natural woodland
- Existing woods, trees, hedges and scrub
- Local wildlife site
- Registered park and garden (Gibberd Garden)
- Boundary of study area
- London metropolitan green belt
- Special restraint area (Adopted Replacement Harlow Local Plan 2006)
- Green wedge (Adopted Replacement Harlow Local Plan 2006)
- Special Landscape Area (Harlow)
- Town and District boundary
- Public footpath
- Public bridleway
- Stort Valley Way recreational path
- Harcamlow Way recreational path
- Forest Way recreational path
- Proposed Scheme

Rev.	Date	Description of revision	Drawn	Checked	Reviewed	Approved
-	-	-	-	-	-	-
P0	DEC 16	ISSUED FOR PLANNING APPLICATION	AC	BC	HM	PM

DRAWING STATUS  
PRELIMINARY DESIGN



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SCHEME TITLE  
M11 JUNCTION 7A

DRAWING TITLE  
LANDSCAPE CONTEXT  
FIGURE 7-1  
Sheet 1 of 2

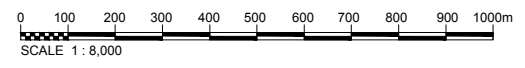
DESIGNED	DRAWN	CHECKED	REVIEWED	APPROVED
AS	AC	BC	HM	PM
DATE DEC 16	DATE DEC 16	DATE DEC 16	DATE DEC 16	DATE DEC 16

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

SCALE AT A1 (841x594mm)  
AS SHOWN

DRAWING No.  
B3553F05-0300-DR-0100

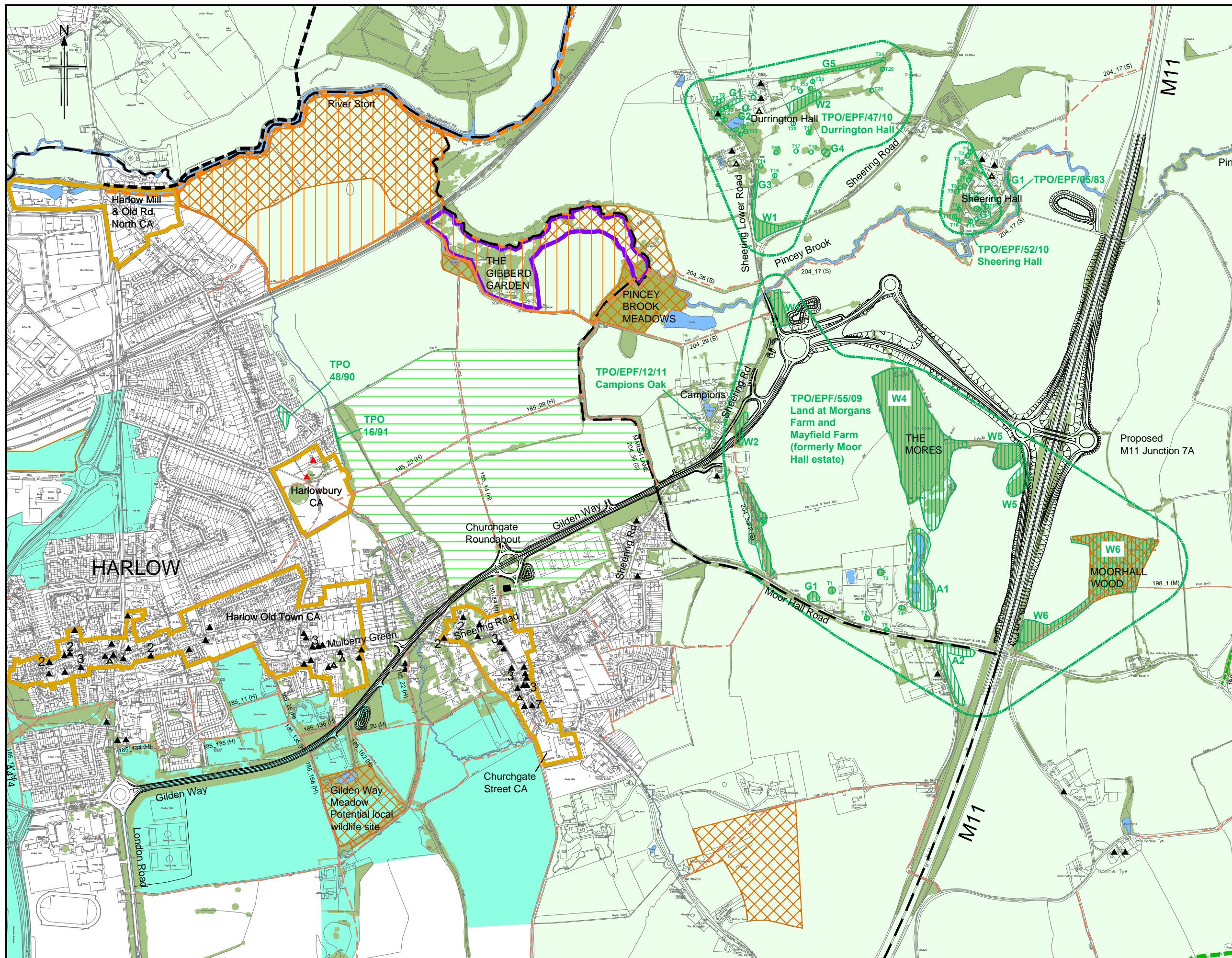
REV.  
P00.1



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**Notes**

- Do not scale.

**Key**

- Conservation Areas (Harlow Old Town CA etc)
- Grade I listed building
- Grade II\* listed building
- Grade II listed buildings or structures (with number indicated if more than 1 in a group)
- Ancient semi-natural woodland
- Existing woods, trees, hedges and scrub
- Woodland and trees protected by Tree Preservation Order (TPO). TPO woodland affected by scheme identified with W1, W2 etc.
- Collective TPO that can include several trees, tree groups and woods enclosed with a dashed line and identifying TPO number.
- Local wildlife site
- Registered park and garden (Gibberd Garden)
- London metropolitan green belt
- Special restraint area (Adopted Replacement Harlow Local Plan 2006)
- Green wedge (Adopted Replacement Harlow Local Plan 2006)
- Special Landscape Area (Harlow)
- Town and District boundary

**PUBLIC RIGHTS OF WAY**  
 Path/Bridleway numbers given with letters in brackets indicating Parish/Borough.  
 (H) = Harlow, (S) = Sheering, (M) = Matching

- Public Footpath 185\_29 (Harlow)
- Public bridleway

**Longer Distance Recreational Paths**

- Stort Valley Way
- Harcamlow Way
- Forest Way

**Proposed Scheme**

Rev.	Date	Description of revision	Drawn	Checked	Reviewed	Approved
-	-	-	-	-	-	-
P0	DEC 16	ISSUED FOR PLANNING APPLICATION	AC	BC	HM	PM

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SCHEME TITLE: M11 JUNCTION 7A

DRAWING TITLE: LANDSCAPE CONTEXT  
 FIGURE 7.1  
 Sheet 2 of 2

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AS	AC	BC	HM	PM
DATE DEC 16	DATE DEC 16	DATE DEC 16	DATE DEC 16	DATE DEC 16

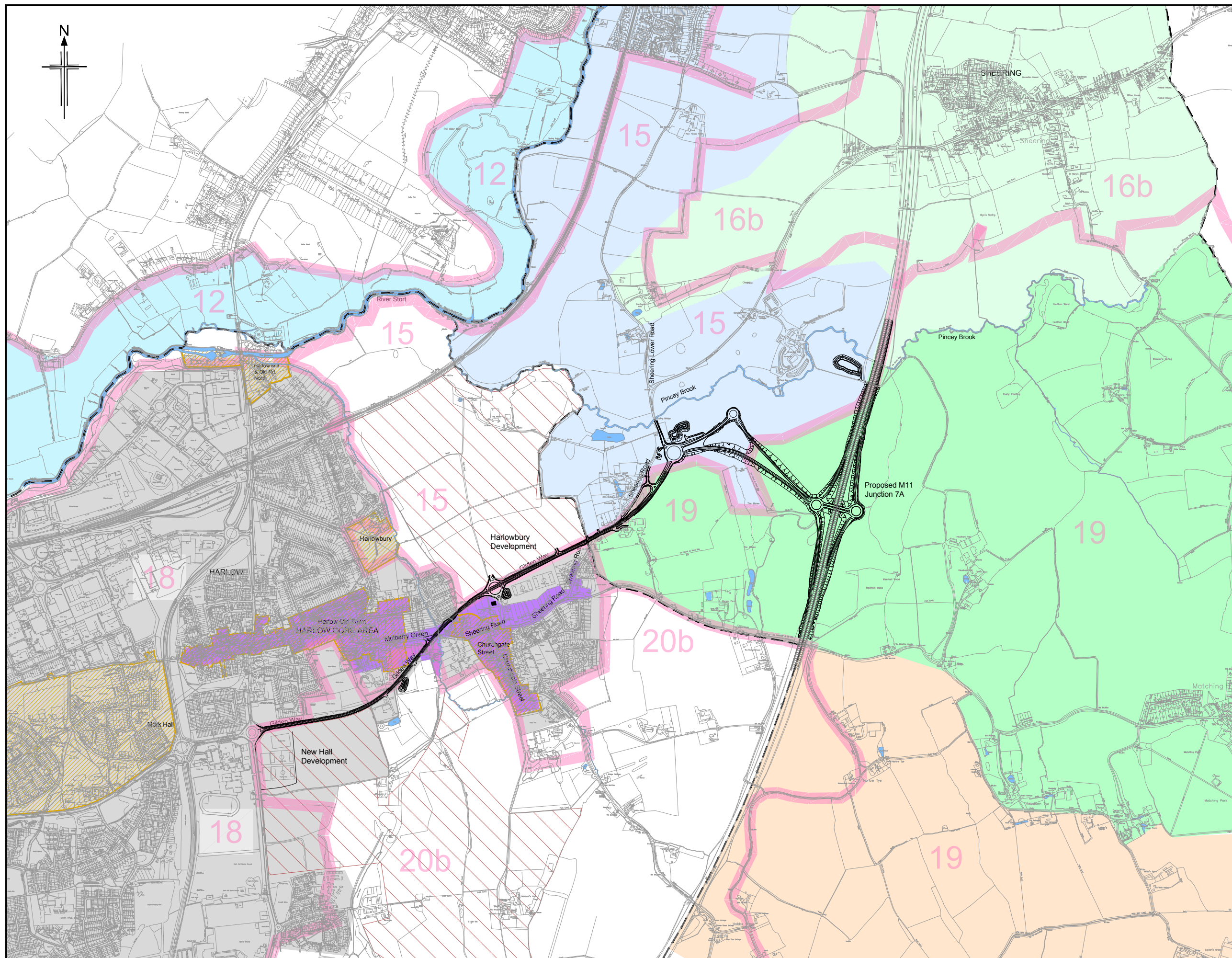
DRAWING UNITS U.N.O. DIMENSIONS AND LEVELS IN METRES

DRAWING No. B3553F05-0300-DR-0101 REV. P00.1

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- Notes**
- Do not scale.
- Key**
- Central Essex Farmlands area C1 - Sheering (Epping Forest DC)
  - Central Essex Farmlands area C2 - Matching (Epping Forest DC)
  - Magdalen Laver and Moreton (Epping Forest DC)
  - Stort Valley (Epping Forest DC)
  - Stort Valley (East Herts DC)
  - Harlow Environs (local assessment)
  - Harlow Core (local assessment)
  - Conservation Areas within Harlow
  - District Boundary
  - Harlowbury and New Hall housing developments
  - Proposed scheme
- Boundary of character areas in Harlow Area Landscape and Environment Study (2005) Volume2: Detailed Analysis Of Harlow's Fringes. Areas are listed below with the same identifying numbers as used in that report.**
- 12** River Stort
  - 15** Little Hallingbury Ridges and Slopes
  - 16b** Hatfield Heath Plateau
  - 18** Harlow Major Urban Area
  - 19** Matching Plateau
  - 20b** Jack's Hatch to Church Langley Ridge and Slope

Rev.	Date	Description of revision	Drawn	Checked	Reviewed	Approved
-	-	-	-	-	-	-
P0	DEC 16	ISSUED FOR PLANNING APPLICATION	AC	BC	HM	PM

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DRAWING TITLE: LANDSCAPE CHARACTER FIGURE 7-2

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AS	AC	BC	HM	PM
DATE DEC 16	DATE DEC 16	DATE DEC 16	DATE DEC 16	DATE DEC 16

DRAWING UNITS U.N.O. DIMENSIONS AND LEVELS IN METRES. SCALE AT A1 (841x594mm) AS SHOWN

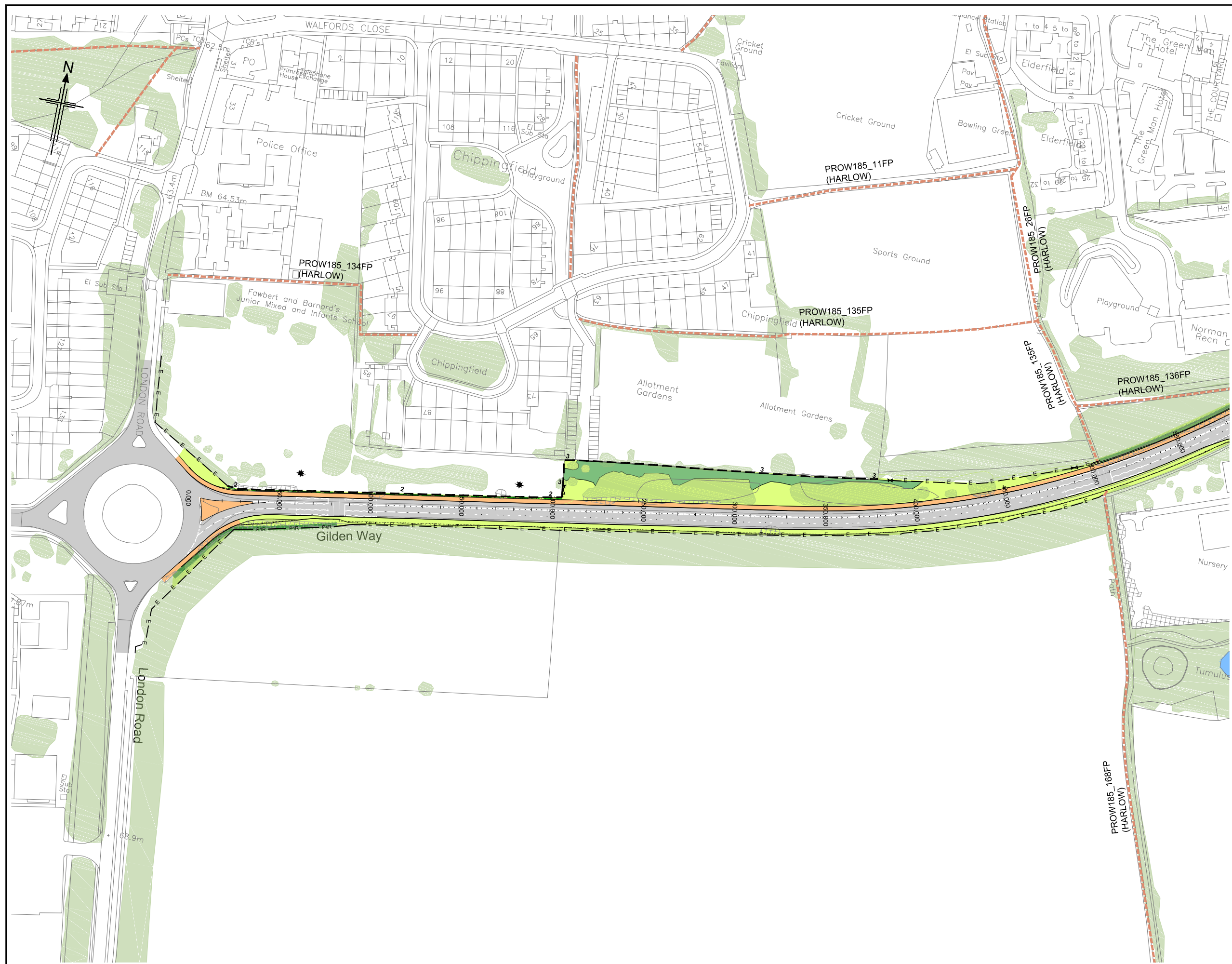
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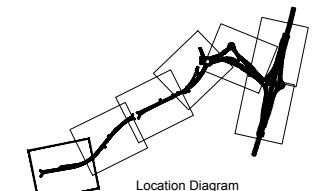
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- Notes:**
- All dimensions in metres unless stated otherwise.
- Key**
- Existing woodland trees & hedges to be retained
  - Existing woodland canopy, trees and hedges to be removed
  - TPO protected woodland near the proposed scheme
  - TPO protected woodland to be removed
  - Public footpath
  - Proposed footpath closure
  - Proposed path realignment or extension
  - Proposed road in cutting
  - Proposed road on embankment
  - Proposed footway
  - Proposed highway drainage pond
  - Proposed stream realignment
  - Existing streams and ponds
  - Potential property for off-site planting
  - Proposed woodland screen planting
  - Proposed native shrubs
  - Proposed amenity planting, decorative shrubs & small trees
  - Proposed individual trees to be planted at large size
  - Proposed willows to channel bats along stream to culverts
  - Proposed hedgerows
  - Proposed grassland
  - Proposed area of spring bulbs in grass
  - Proposed species-rich grass & wildflowers
  - Proposed area with scattered clumps of native scrub
  - Proposed mounds and landscape earthworks
  - Climbing plants to grow on structures
  - Brick facing to retaining structure
  - Proposed Fencing:
    - P4R - Post and 4 rail timber
    - P4RM - P4R with mesh infill
    - HSF2.0 - Wire mesh, ht. 2m
    - E - Retention of existing
  - Indicative Noise Barriers:
    - 2 - Timber reflective ht2m
    - 2.5A - Absorptive, ht. 2.5m
    - 2.5B - Brick wall, ht. 2.5m
    - 2.5C - Barrier with transparent panels, height 2m
    - 2.5D - Access gap in barrier, requiring detailed design for public safety



Rev.	Date	Description of revision	Drawn	Checked	Reviewed	Approved
-	-	-	-	-	-	-
PD	DEC 16	ISSUED FOR PLANNING APPLICATION	AC	BC	HM	PM

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SCHEME TITLE: M11 JUNCTION 7A

DRAWING TITLE: LANDSCAPE MITIGATION  
 FIGURE 7-3  
 Sheet 1 of 7

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AS	AC	BC	HM	PM
DATE DEC 16	DATE DEC 16	DATE DEC 16	DATE DEC 16	DATE DEC 16

DRAWING UNITS U.N.O. DIMENSIONS AND LEVELS IN METRES  
 SCALE AT A1 (841x594mm) 1:1000

DRAWING No: B3553F05-3000-DR-0001  
 REV: P00.1

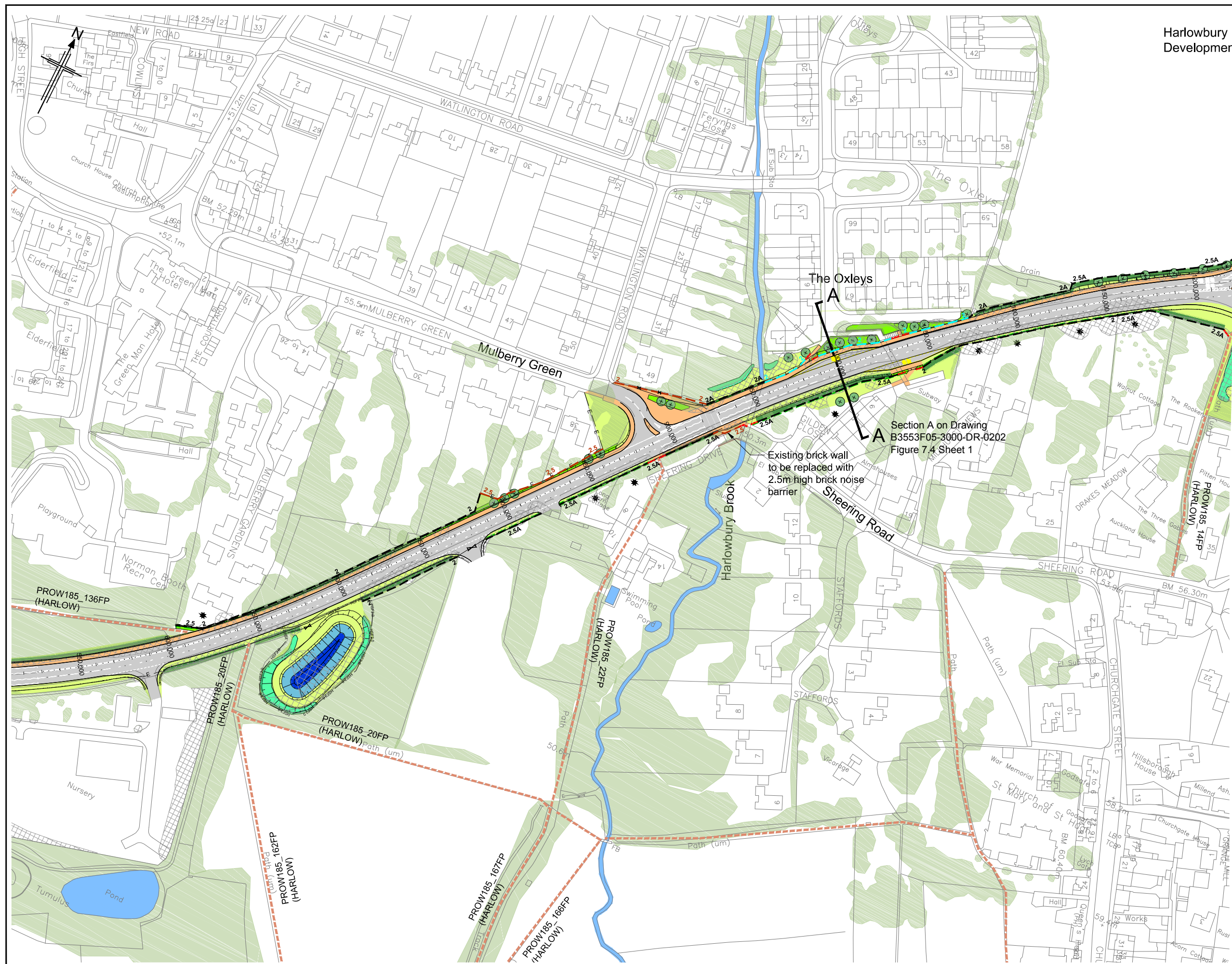
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**Harlowbury Development**

**Notes:**  
 1. All dimensions in metres unless stated otherwise.

**Key**

	Existing woodland trees & hedges to be retained		Proposed woodland screen planting
	Existing woodland canopy, trees and hedges to be removed		Proposed native shrubs
	TPO protected woodland near the proposed scheme		Proposed amenity planting, decorative shrubs & small trees
	TPO protected woodland to be removed		Proposed individual trees to be planted at large size
	Public footpath		Proposed willows to channel bats along stream to culverts
	Proposed footpath closure		Proposed hedgerows
	Proposed path realignment or extension		Proposed grassland
	Proposed road in cutting		Proposed area of spring bulbs in grass
	Proposed road on embankment		Proposed species-rich grass & wildflowers
	Proposed footway		Proposed area with scattered clumps of native scrub
	Proposed highway drainage pond		Proposed mounds and landscape earthworks
	Proposed stream realignment		Climbing plants to grow on structures
	Existing streams and ponds		Brick facing to retaining structure
	Potential property for off-site planting		Proposed Fencing

**Proposed Fencing**

- P4R Post and 4 rail timber
- P4RM P4R with mesh infill
- HSF2.0 Wire mesh, ht. 2m
- E-E Retention of existing

**Indicative Noise Barriers**

- 2 Timber reflective ht.2m
- 2.5A Absorptive, ht. 2.5m
- 2.5A Brick wall, ht. 2.5m
- 2 Barrier with transparent panels, height 2m
- 2 Access gap in barrier, requiring detailed design for public safety



Rev.	Date	Description of revision	Drawn	Checked	Reviewed	Approved
-	-	-	-	-	-	-
PD	DEC 16	ISSUED FOR PLANNING APPLICATION	AC	BC	HM	PM

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SCHEME TITLE: M11 JUNCTION 7A

DRAWING TITLE: LANDSCAPE MITIGATION  
 FIGURE 7-3  
 Sheet 2 of 7

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AS	AC	BC	HM	PM
DATE DEC 16	DATE DEC 16	DATE DEC 16	DATE DEC 16	DATE DEC 16

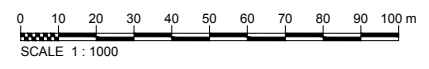
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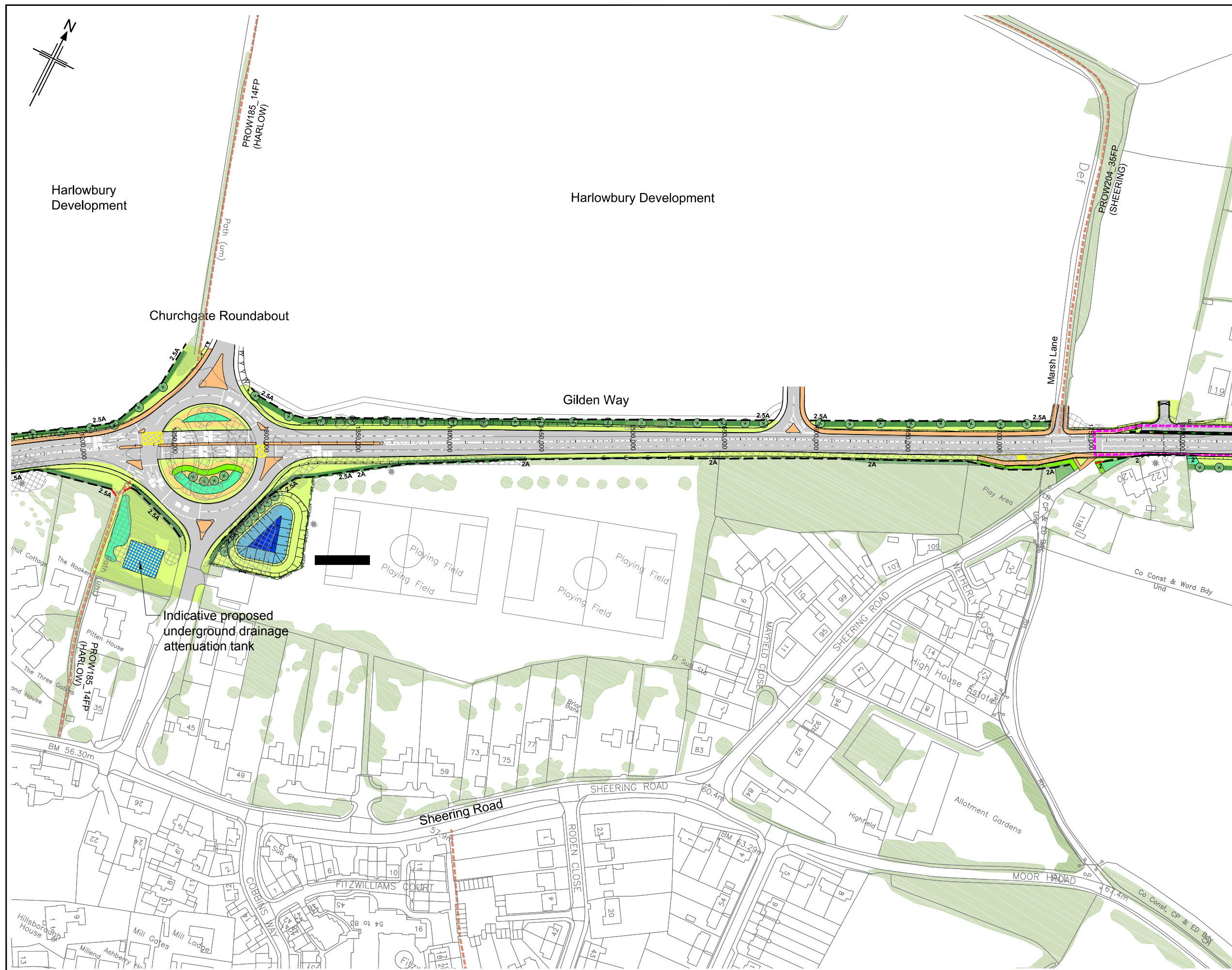
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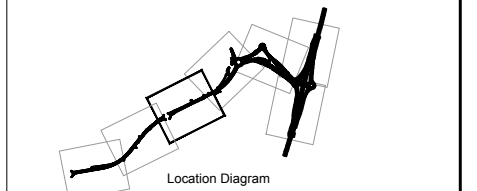
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- Notes:**
- All dimensions in metres unless stated otherwise.
- Key**
- Existing woodland trees & hedges to be retained
  - Existing woodland canopy, trees and hedges to be removed
  - TPO protected woodland near the proposed scheme
  - TPO protected woodland to be removed
  - Public footpath
  - Proposed footpath closure
  - Proposed path realignment or extension
  - Proposed road in cutting
  - Proposed road on embankment
  - Proposed footway
  - Proposed highway drainage pond
  - Proposed stream realignment
  - Existing streams and ponds
  - Potential property for off-site planting
  - Proposed woodland screen planting
  - Proposed native shrubs
  - Proposed amenity planting, decorative shrubs & small trees
  - Proposed individual trees to be planted at large size
  - Proposed willows to channel bats along stream to culverts
  - Proposed hedgerows
  - Proposed grassland
  - Proposed area of spring bulbs in grass
  - Proposed species-rich grass & wildflowers
  - Proposed area with scattered clumps of native scrub
  - Proposed mounds and landscape earthworks
  - Climbing plants to grow on structures
  - Brick facing to retaining structure
- Proposed Fencing**
- P4R Post and 4 rail timber
  - P4RM P4R with mesh infill
  - HSF2.0 Wire mesh, ht. 2m
  - E Retention of existing
- Indicative Noise Barriers**
- 2 Timber reflective ht2m
  - 2.5A Absorbent, ht. 2.5m
  - 2 Brick wall, ht. 2.5m
  - 2 Barrier with transparent panels, height 2m
  - 2 Access gap in barrier, requiring detailed design for public safety



Rev.	Date	Description of revision	Drawn	Checked	Reviewed	Approved
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SCHEME TITLE: M11 JUNCTION 7A

DRAWING TITLE: LANDSCAPE MITIGATION  
FIGURE 7-3  
Sheet 3 of 7

DESIGNED	DRAWN	CHECKED	REVIEWED	APPROVED
AS	AC	BC	HM	PM
DATE DEC 16	DATE DEC 16	DATE DEC 16	DATE DEC 16	DATE DEC 16

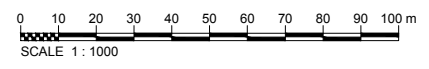
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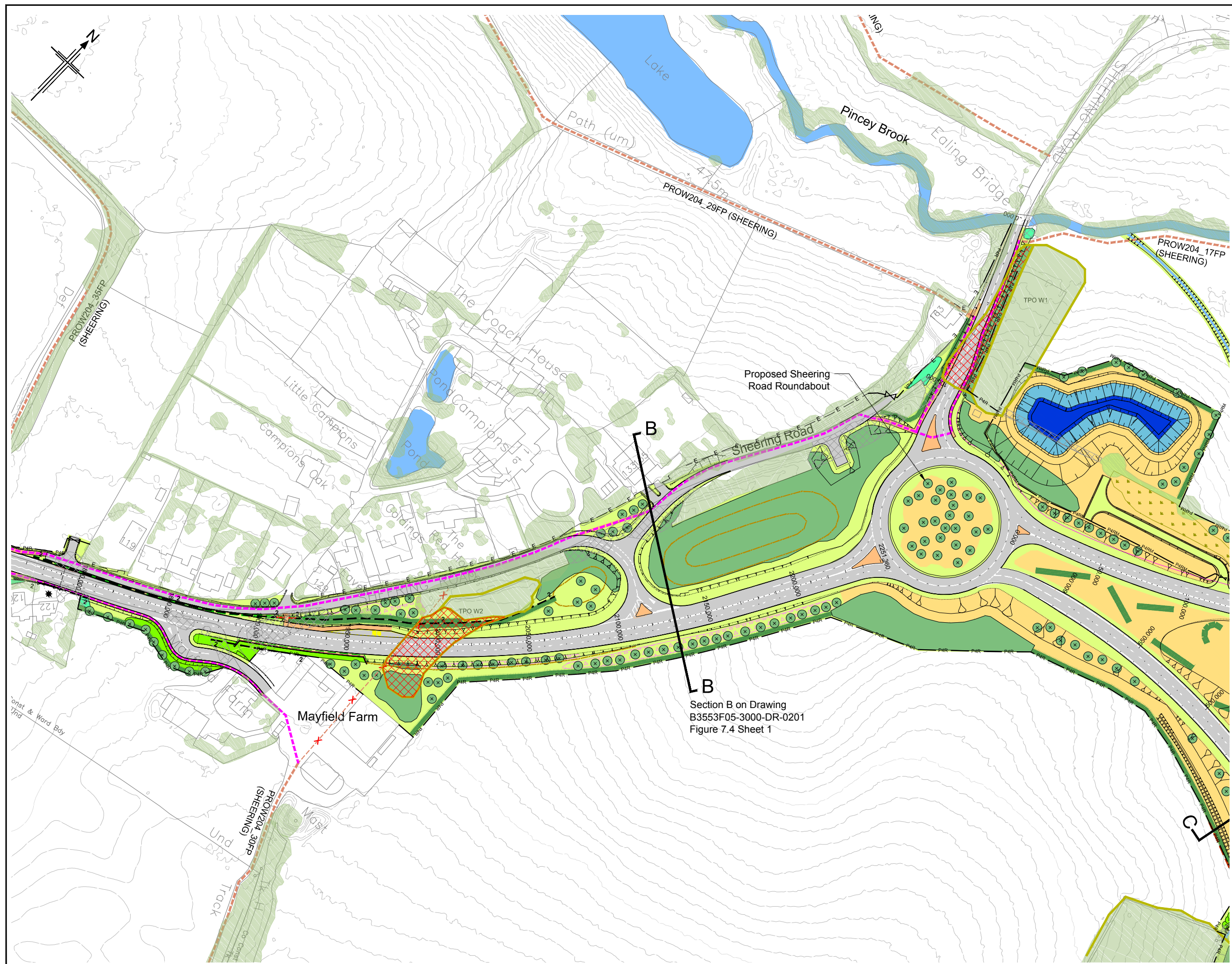
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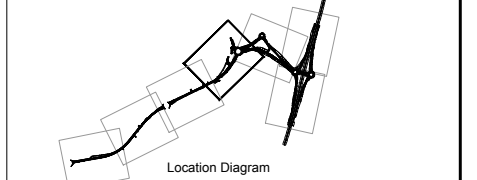
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- Notes:**
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- Key**
- Existing woodland trees & hedges to be retained
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  - Proposed area of spring bulbs in grass
  - Proposed species-rich grass & wildflowers
  - Proposed area with scattered clumps of native scrub
  - Proposed mounds and landscape earthworks
  - Climbing plants to grow on structures
  - Brick facing to retaining structure
  - Proposed Fencing:
    - P4R - Post and 4 rail timber
    - P4RM - P4R with mesh infill
    - HSF2.0 - Wire mesh, ht. 2m
    - E-E - Retention of existing
  - Indicative Noise Barriers:
    - 2.5A - Timber reflective ht.2m
    - 2.5A - Absorptive, ht. 2.5m
    - 2.5A - Brick wall, ht. 2.5m
    - 2.5A - Barrier with transparent panels, height 2m
    - 2.5A - Access gap in barrier, requiring detailed design for public safety



Rev.	Date	Description of revision	Drawn	Checked	Reviewed	Approved
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DRAWING TITLE: LANDSCAPE MITIGATION  
FIGURE 7-3  
Sheet 4 of 7

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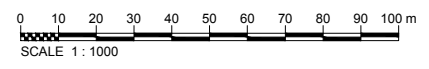
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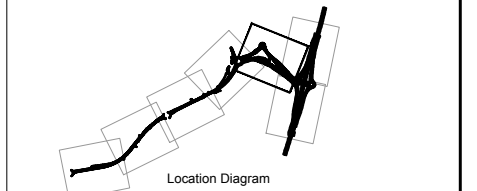
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- PERMANENT ECOLOGICAL MITIGATION**
- Badger fence
  - Bat fence: 5m high fine mesh fence to deflect bat flight paths over the traffic
  - Road light on low column to limit light spread

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  - Brick facing to retaining structure
- Proposed Fencing**
- P4R Post and 4 rail timber
  - P4RM P4R with mesh infill
  - HSF2.0 Wire mesh, ht. 2m
  - E-E Retention of existing
- Indicative Noise Barriers**
- Timber reflective ht2m
  - Absorptive, ht. 2.5m
  - Brick wall, ht. 2.5m
  - Barrier with transparent panels, height 2m
  - Access gap in barrier, requiring detailed design for public safety



Rev.	Date	Description of revision	Drawn	Checked	Reviewed	Approved
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SCHEME TITLE: M11 JUNCTION 7A

DRAWING TITLE: LANDSCAPE MITIGATION  
FIGURE 7-3  
Sheet 5 of 7

DESIGNED	DRAWN	CHECKED	REVIEWED	APPROVED
AS	AC	BC	HM	PM
DATE	DATE	DATE	DATE	DATE
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DRAWING UNITS U.N.O. DIMENSIONS AND LEVELS IN METRES  
SCALE AT A1 (841x594mm) 1:1000

DRAWING No. B3553F05-3000-DR-0005 REV. P00.1

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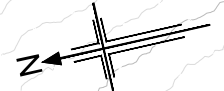
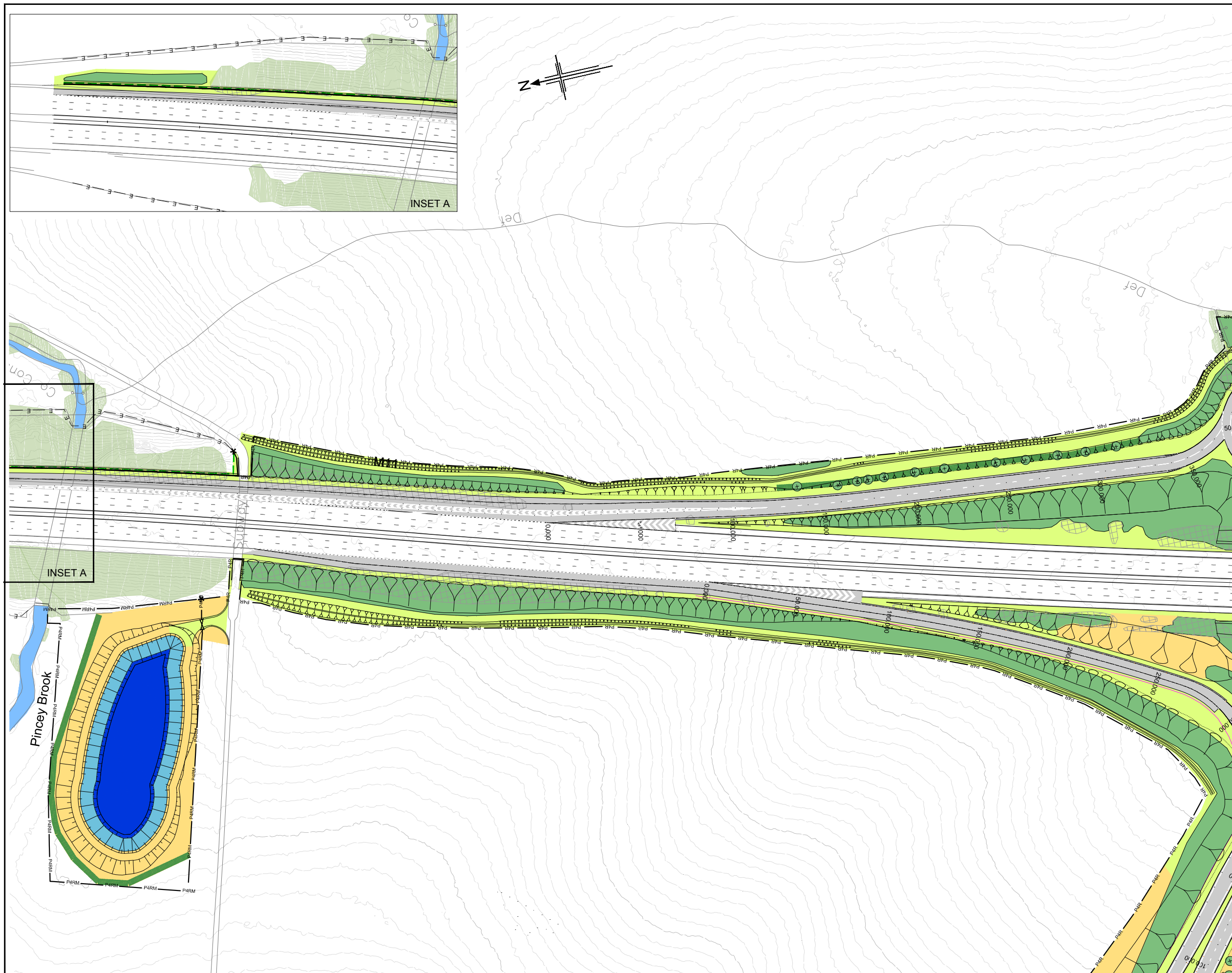
Section C on Drawing B3553F05-3000-DR-0201 Figure 7.4 Sheet 1

Section D on Drawing B3553F05-3000-DR-0202 Figure 7.4 Sheet 2

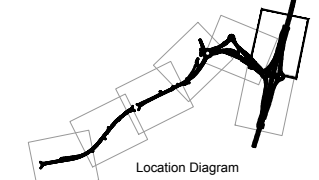
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  - HSF2.0 Wire mesh, ht. 2m
  - E-E Retention of existing
- Indicative Noise Barriers**
- 2 Timber reflective ht.2m
  - 2.5A Absorptive, ht. 2.5m
  - 2.5A Brick wall, ht. 2.5m
  - 2 Barrier with transparent panels, height 2m
  - 2 Access gap in barrier, requiring detailed design for public safety



Rev.	Date	Description of revision	Drawn	Checked	Reviewed	Approved
-	-	-	-	-	-	-
PD	DEC 16	ISSUED FOR PLANNING APPLICATION	AC	BC	HM	PM

DRAWING STATUS: PRELIMINARY DESIGN



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SCHEME TITLE: M11 JUNCTION 7A

DRAWING TITLE: LANDSCAPE MITIGATION  
FIGURE 7-3  
Sheet 6 of 7

DESIGNED	DRAWN	CHECKED	REVIEWED	APPROVED
AS	AC	BC	HM	PM
DATE DEC 16	DATE DEC 16	DATE DEC 16	DATE DEC 16	DATE DEC 16

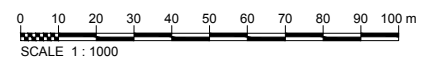
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SCALE AT A1 (841x594mm) 1:1000

DRAWING No. B3553F05-3000-DR-0006 REV. P00.1

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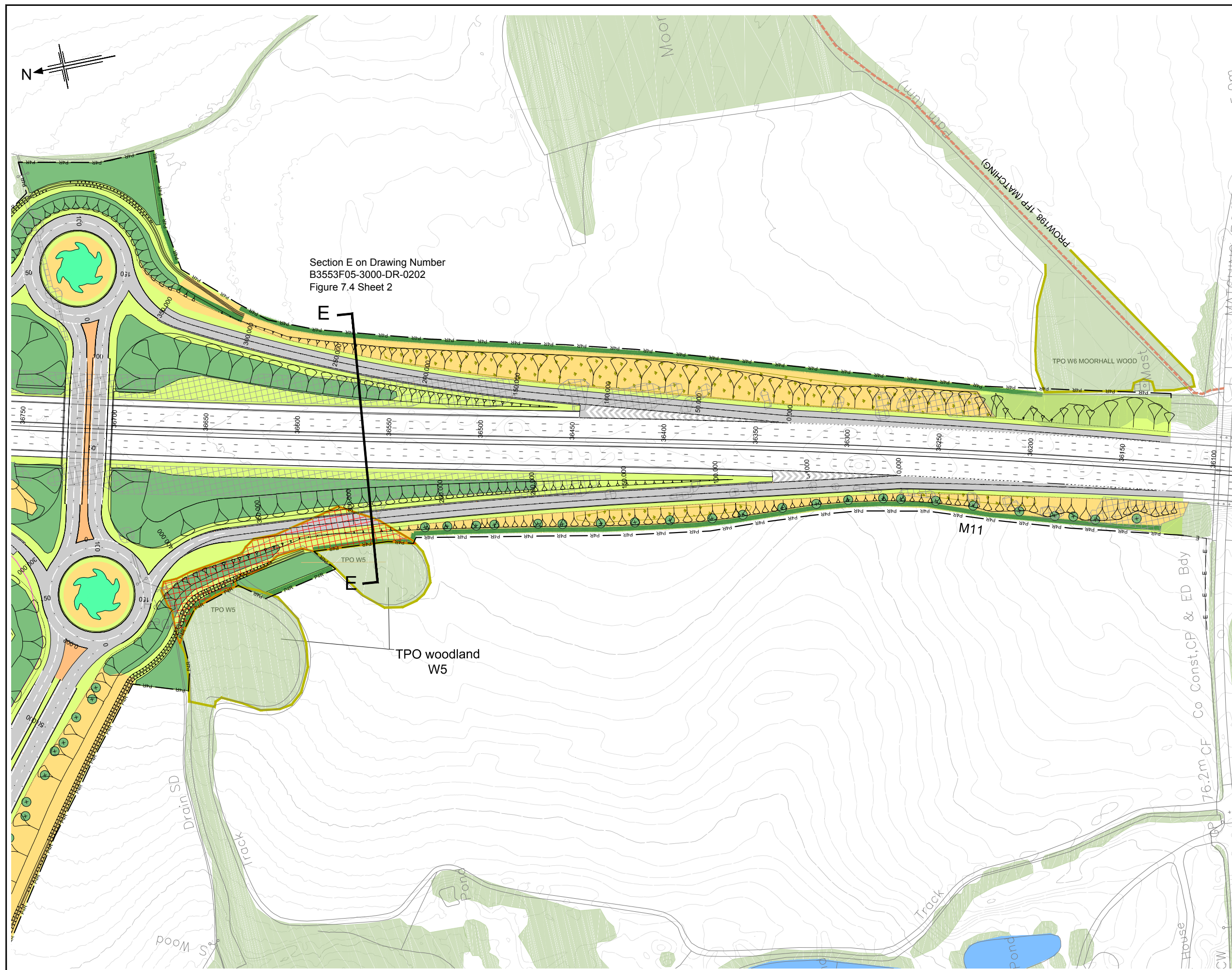
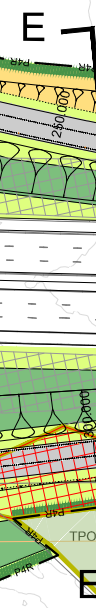
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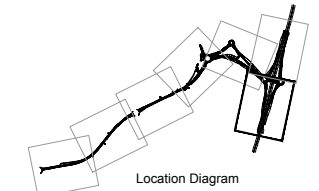




Section E on Drawing Number  
B3553F05-3000-DR-0202  
Figure 7.4 Sheet 2



- Notes:**
- All dimensions in metres unless stated otherwise.
- Key**
- Existing woodland trees & hedges to be retained
  - Existing woodland canopy, trees and hedges to be removed
  - TPO protected woodland near the proposed scheme
  - TPO protected woodland to be removed
  - Public footpath
  - Proposed path realignment or extension
  - Proposed road in cutting
  - Proposed road on embankment
  - Proposed footway
  - Proposed highway drainage pond
  - Proposed stream realignment
  - Existing streams and ponds
  - Potential property for off-site planting
  - Proposed woodland screen planting
  - Proposed native shrubs
  - Proposed amenity planting, decorative shrubs & small trees
  - Proposed individual trees to be planted at large size
  - Proposed willows to channel bats along stream to culverts
  - Proposed hedgerows
  - Proposed grassland
  - Proposed area of spring bulbs in grass
  - Proposed species-rich grass & wildflowers
  - Proposed area with scattered clumps of native scrub
  - Proposed mounds and landscape earthworks
  - Climbing plants to grow on structures
  - Brick facing to retaining structure
- Proposed Fencing**
- P4R Post and 4 rail timber
  - P4RM P4R with mesh infill
  - HSF2.0 Wire mesh, ht. 2m
  - E Retention of existing
- Indicative Noise Barriers**
- 2 Timber reflective ht2m
  - 2.5A Absorptive, ht. 2.5m
  - 2 Brick wall, ht. 2.5m
  - 2 Barrier with transparent panels, height 2m
  - 2 Access gap in barrier, requiring detailed design for public safety



Rev.	Date	Description of revision	Drawn	Checked	Reviewed	Approved
-	-	-	-	-	-	-
PO	DEC 16	ISSUED FOR PLANNING APPLICATION	AC	BC	HM	PM

**DRAWING STATUS**

**PRELIMINARY DESIGN**

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**SCHEME TITLE**

**M11 JUNCTION 7A**

**DRAWING TITLE**

**LANDSCAPE MITIGATION  
FIGURE 7-3  
Sheet 7 of 7**

DESIGNED	DRAWN	CHECKED	REVIEWED	APPROVED
AS	AC	BC	HM	PM
DATE DEC 16	DATE DEC 16	DATE DEC 16	DATE DEC 16	DATE DEC 16

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

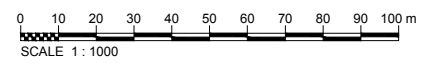
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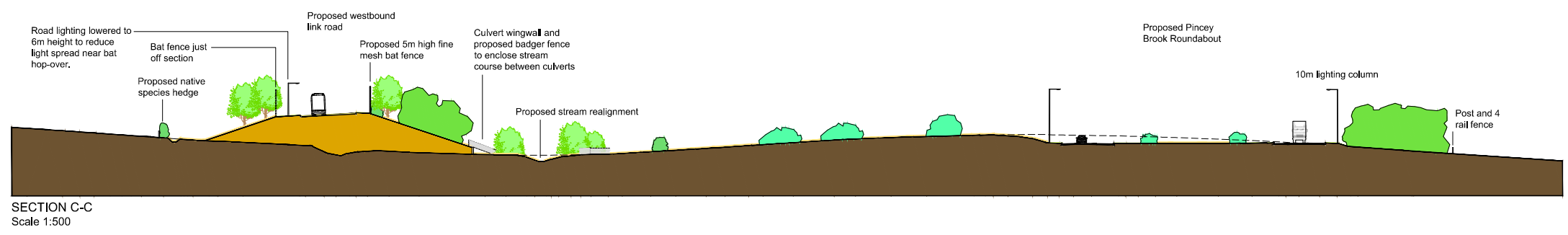
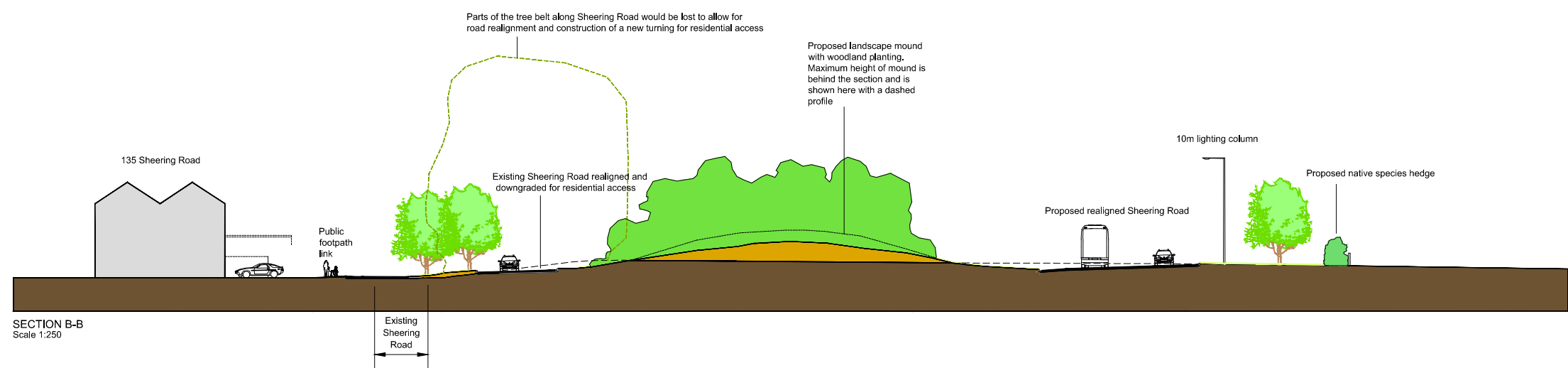
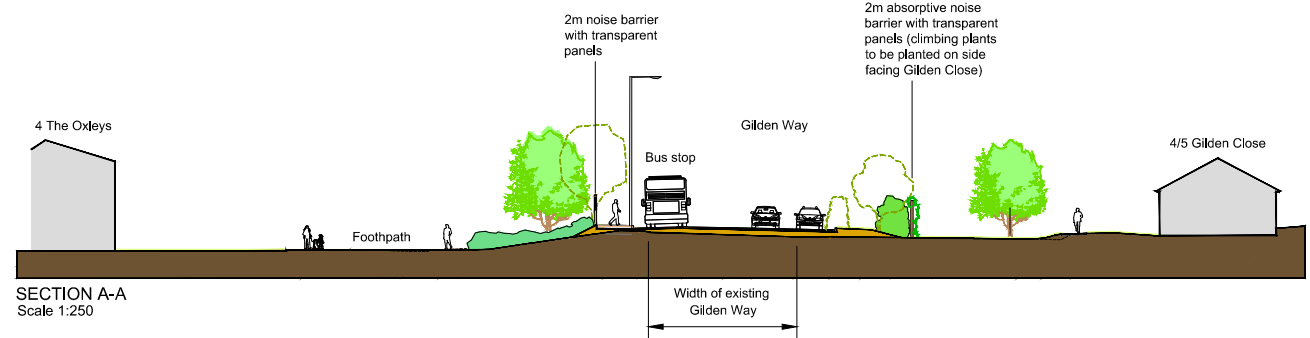
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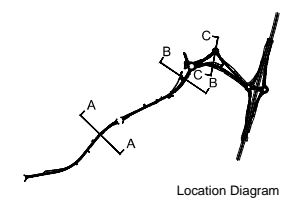


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- Notes:**
- All dimensions in metres unless stated otherwise.
  - Section locations are shown in context on landscape drawings B3553F05-3000-DR-0002, 0004 & 0005 (Figure 7.4 Sheets 2,4 & 5)
  - The sections show the proposed landscape planting at the approximate size it would be fifteen years after completion of construction.

- Key**
- Existing vegetation (trees & shrubs)
  - Existing vegetation to be removed
  - Proposed individual tree to be planted at a large size
  - Proposed native species hedge
  - Proposed woodland planting
  - Proposed native shrubs or scrub vegetation
  - Proposed earthworks fill
  - Existing ground
  - Proposed grass
  - Proposed long grass and wildflowers
  - Existing ground profile in area of proposed cut
  - Feature just off the section
  - Proposed 10m high road lighting



Rev.	Date	Description of revision	Drawn	Checked	Reviewed	Approved
-	-	-	-	-	-	-
-	-	-	-	-	-	-
P0	DEC 16	ISSUED FOR PLANNING APPLICATION	AC	BC	HM	PM

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SCHEME TITLE  
**M11 JUNCTION 7A**

DRAWING TITLE  
**LANDSCAPE SECTIONS  
FIGURE 7.4  
Sheet 1 of 2**

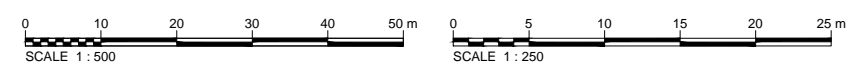
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AS	AC	BC	HM	PM
DATE DEC 16	DATE DEC 16	DATE DEC 16	DATE DEC 16	DATE DEC 16

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

SCALE AT A1 (841x594mm)  
AS SHOWN

DRAWING No.  
**B3553F05-3000-DR-0201**

REV.  
**P00.1**
















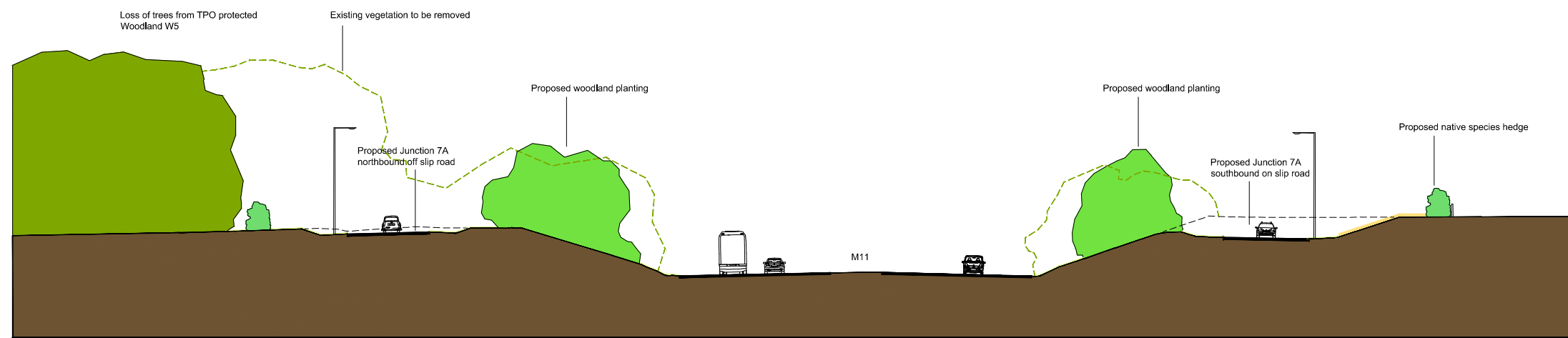
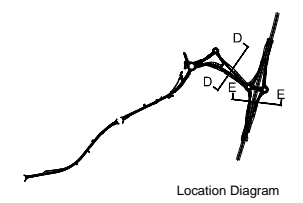
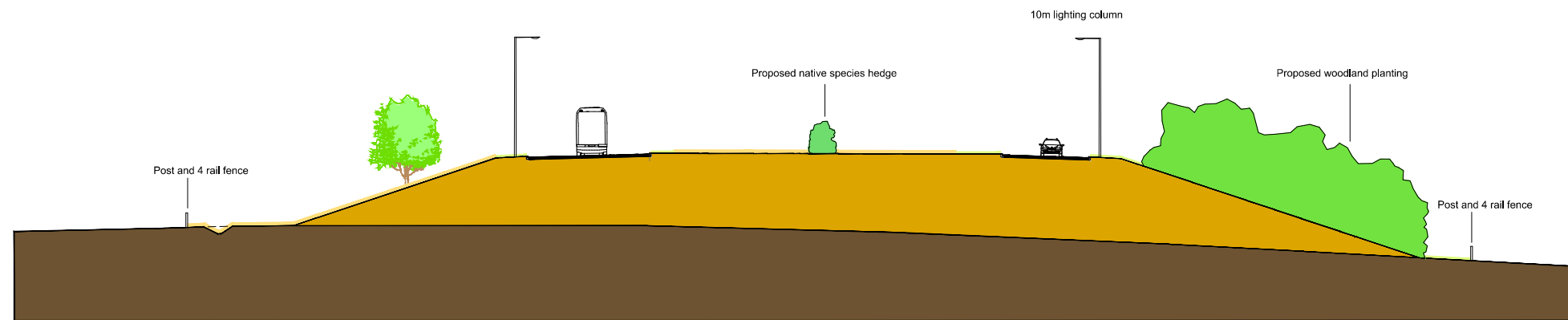
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- Notes:**
- All dimensions in metres unless stated otherwise.
  - Section locations are shown in context on the landscape mitigation drawings B3553F05-3000-DR-0005 & 0007, (Figure 7.4 Sheets 5 & 7)
  - The sections show the proposed landscape planting at the approximate size it would be fifteen years after completion of construction.

**Key**

-  Existing vegetation (trees & shrubs)
-  Existing vegetation to be removed
-  Proposed individual tree to be planted at a large size
-  Proposed native species hedge
-  Proposed woodland planting
-  Proposed native shrubs or scrub vegetation
-  Proposed earthworks fill
-  Existing ground
-  Proposed grass
-  Proposed long grass and wildflowers
-  Existing ground profile in area of proposed cut
-  Feature just off the section
-  Proposed 10m high road lighting



Rev.	Date	Description of revision	Drawn	Checked	Reviewed	Approved
-	-	-	-	-	-	-
P0	DEC 16	ISSUED FOR PLANNING APPLICATION	AC	BC	HM	PM

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SCHEME TITLE  
**M11 JUNCTION 7A**

DRAWING TITLE  
**LANDSCAPE SECTIONS  
FIGURE 7.4  
Sheet 2 of 2**

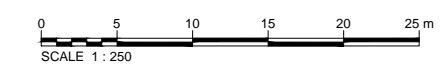
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AS	AC	BC	HM	PM
DATE DEC 16	DATE DEC 16	DATE DEC 16	DATE DEC 16	DATE DEC 16

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

SCALE AT A1 (841x594mm)  
AS SHOWN

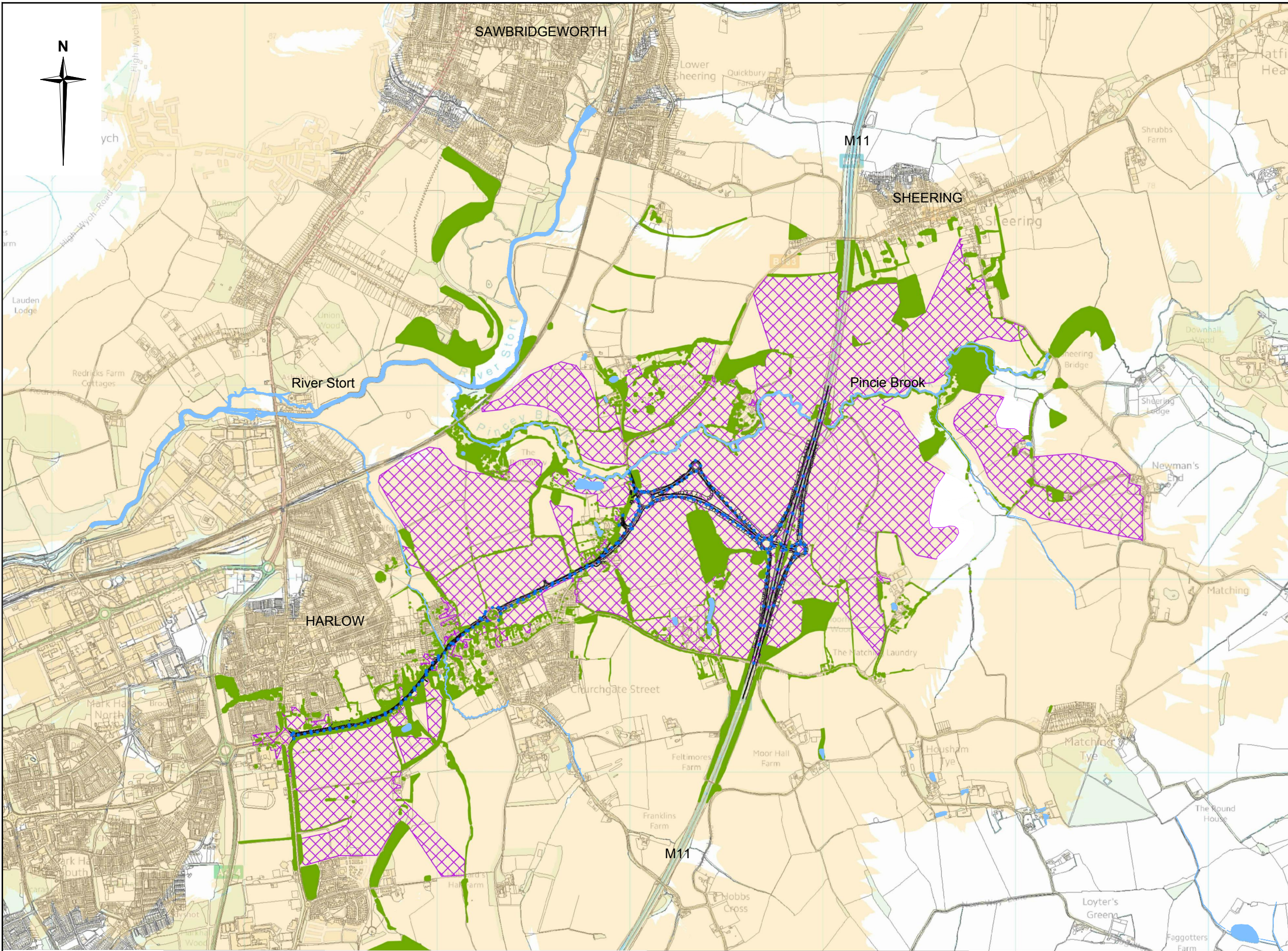
DRAWING No.  
**B3553F05-3000-DR-0202**

REV.  
**P00.1**



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- Notes**
- Do not scale.
- Key**
- Proposed road
  - Design spot height locations for traffic and 10m high road lighting
  - Existing and retained trees and hedges
- ZONE OF THEORETICAL VISIBILITY**
- Indicative area of significant visibility, taking existing trees and buildings into account, where any part of the Scheme including traffic and road lighting would be visible as a significant element in the view of a person standing at ground level
  - Areas where a person standing at ground level could see no part of the proposed road or its traffic
  - Zone of theoretical visibility based on the terrain model only without taking into account the screening effect of trees and buildings

**NOTE:**  
 The extents of the indicative area of significant visibility were estimated by a chartered landscape architect with reference to the following:

- Experience from site visits;
- Site photos;
- Digital satellite views;
- Contour mapping;
- A model of the existing trees and hedges in the area;
- Buildings and structures on the base plan; and
- The engineering model of the proposed scheme.

P00.1	23/06/16	ISSUED FOR PLANNING APPLICATION	CB	AS	BC	PM
Rev.	Date	Description of revision	Drawn	Checked	Reviewed	Approved

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**M11 JUNCTION 7A**

**ZONE OF THEORETICAL VISIBILITY**

**FIGURE 7-5**

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AS	CB	AS	BC	PM
DATE	DATE	DATE	DATE	DATE
DEC 16	DEC 16	DEC 16	DEC 16	DEC 16

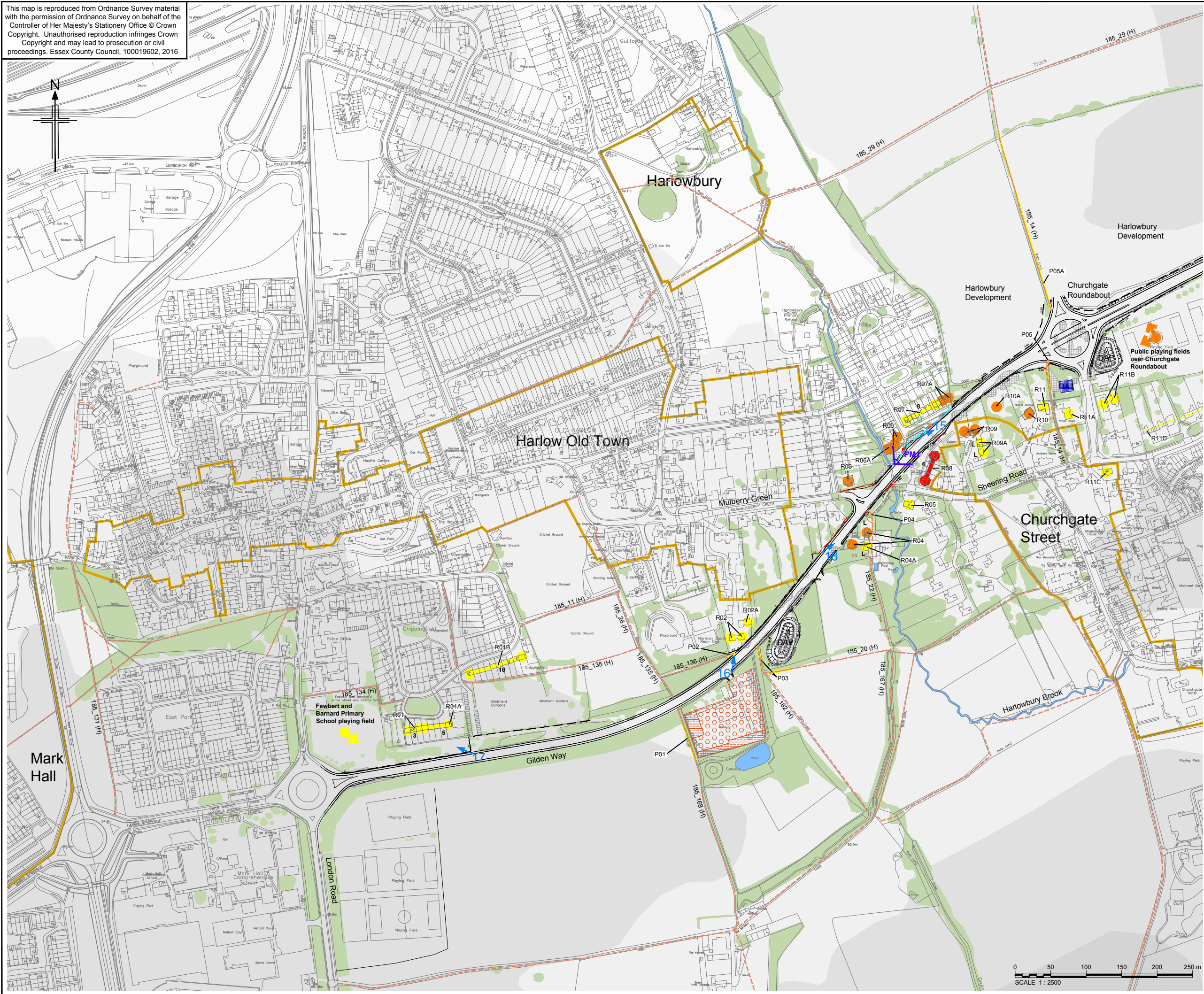
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**LEVELS IN METRES AS SHOWN**

DRAWING No. **B3553F05-3000-DR-0301** REV. **P00.1**

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**Notes:**  
 1. The letters AOD on the key to topography shading refer to ground levels Above Ordnance Datum

**Key**

- Existing woodland/ trees/hedges
- Existing woodland/ trees/hedges removed
- Conservation Area
- Proposed mounds and landscape earthworks
- Indicative location of construction compound to be removed at completion of construction
- Indicative location of soil storage area to be removed at completion of construction
- DAT Underground drainage attenuation tank
- DAP Highway drainage attenuation pond

**PUBLIC RIGHTS OF WAY**  
 Path and bridleway numbers given with letters in brackets indicating Parish or Borough: (H) Harlow, (S) Sheering, (M) Matching.  
 185\_29(H) Public footpath  
 185\_29 (Harlow) Public bridleway

**VISUAL EFFECT SYMBOLS**  
 Colours: significance of visual effects in winter of the year of completion of construction (year 1) before proposed landscape planting has become established.

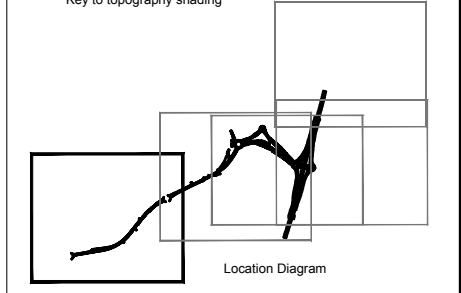
- Large adverse
- Moderate adverse
- Slight adverse
- Neutral (not shown)
- Slight beneficial

**INDICATIVE NOISE BARRIERS**

- Effects at individual properties. Reference number for visual effects schedule indicated - with prefix R for residential, C for commercial. L indicates Listed Building.
- Effects on a close row of properties (number of houses indicated).
- Effects on public rights of way and roads
- Effects at other viewpoints (with identifying label)
- Photomontage view 1 - viewpoint location
- Photo viewpoint (Views in Appendix 7.4)

Key to topography shading

0 50 100 150 200 250 m  
 SCALE 1 : 2500



Rev.	Date	Description of revision	Drawn	Checked	Reviewed	Approved
P0	DEC 16	ISSUED FOR PLANNING APPLICATION	AC	BC	HM	PM

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SCHEME TITLE: M11 JUNCTION 7A

DRAWING TITLE: VISUAL EFFECTS AT YEAR OF COMPLETION (YEAR 1) FIGURE 7-6 Sheet 1 of 5

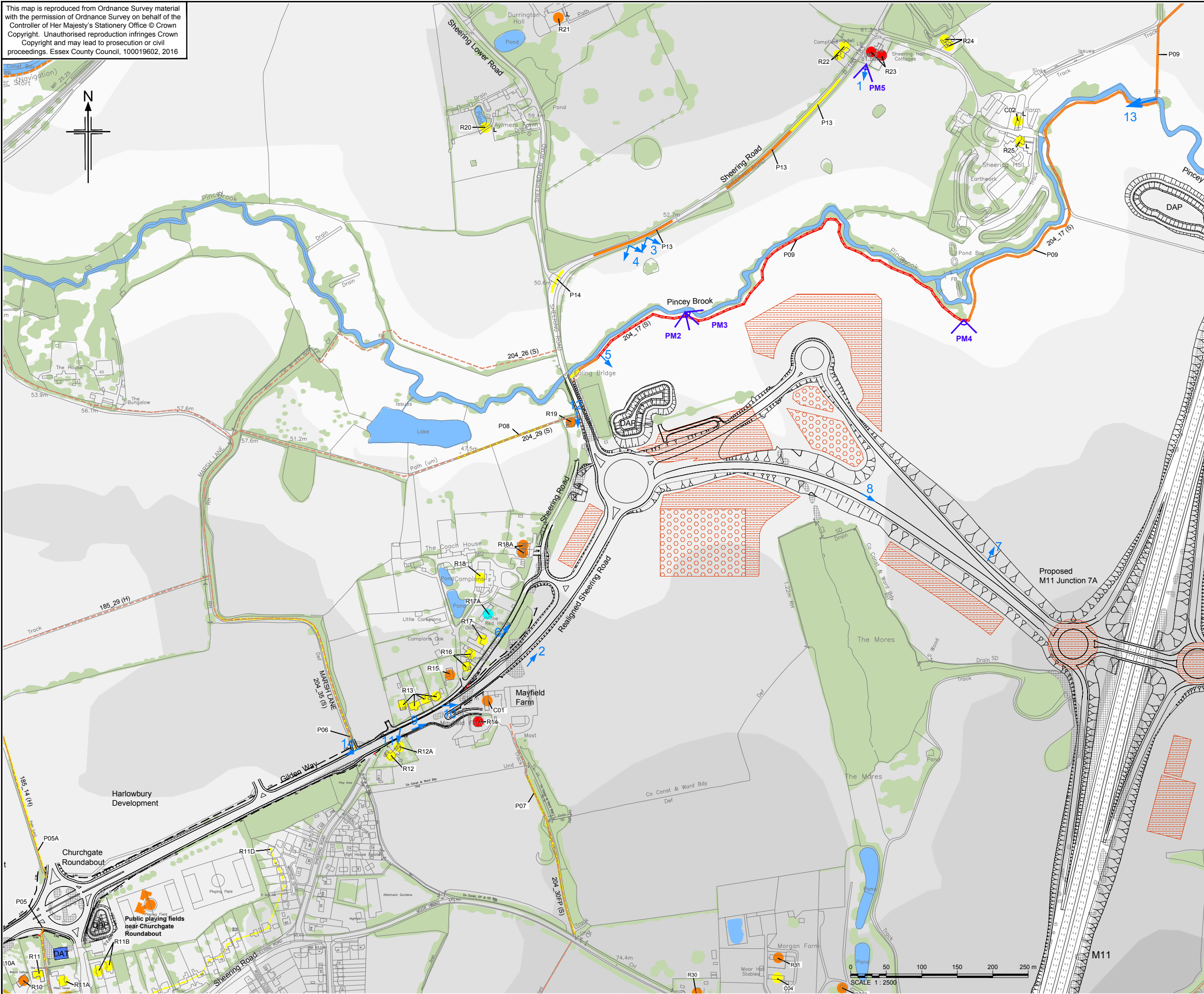
DESIGNED	DRAWN	CHECKED	REVIEWED	APPROVED
AS	AC	BC	HM	PM
DATE DEC 16	DATE DEC 16	DATE DEC 16	DATE DEC 16	DATE DEC 16

DRAWING UNITS U.N.O. DIMENSIONS AND LEVELS IN METRES  
 SCALE AT A1 (841x594mm) 1:2500

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**Notes:**  
 1. The letters AOD on the key to topography shading refer to ground levels Above Ordnance Datum

**Key**

	Existing woodland/trees/hedges		Indicative location of construction compound to be removed at completion of construction
	Existing woodland/trees/hedges removed		Indicative location of soil storage area to be removed at completion of construction
	Conservation Area		Public footpath
	Proposed mounds and landscape earthworks		185_29 (Harlow)
			Public bridleway

**DAT** Underground drainage attenuation tank      **DAP** Highway drainage attenuation pond

**PUBLIC RIGHTS OF WAY**  
 Path and bridleway numbers given with letters in brackets indicating Parish or Borough: (H) Harlow, (S) Sheering, (M) Matching.

**185\_29(H)** Public footpath  
**185\_29** (Harlow)      Public bridleway

**VISUAL EFFECT SYMBOLS**  
 Colours: significance of visual effects in winter of the year of completion of construction (year 1) before proposed landscape planting has become established.

	Large adverse		Neutral (not shown)
	Moderate adverse		Slight beneficial
	Slight adverse		

**C01 R01** Effects at individual properties. Reference number for visual effects schedule indicated - with prefix R for residential, C for commercial. L indicates Listed Building.

**R02** 6 Effects on a close row of properties (number of houses indicated).

**P01** Effects on public rights of way and roads

**P02** Effects at other viewpoints (with identifying label)

**PM1** Photomontage view 1 - viewpoint location

**1,2,3** Photo viewpoint (Views in Appendix 7.4)

**INDICATIVE NOISE BARRIERS**

	Timber, height 2m		Brick wall, ht. 2.5m
	Absorbive, ht. 2.5m		Barrier with transparent panels, height 2m
	Red indicates barrier design for public security at access gaps		

**Key to topography shading**

	<50m AOD		50-60		70-80		>90m AOD
			60-70		80-90		

**Location Diagram**

Rev.	Date	Description of revision	Drawn	Checked	Reviewed	Approved
-	-	-	-	-	-	-
P0	DEC 16	ISSUED FOR PLANNING APPLICATION	AC	BC	HM	PM

**PRELIMINARY DESIGN**

**RINGWAY JACOBS**  
 Integrated expertise

**Essex County Council**

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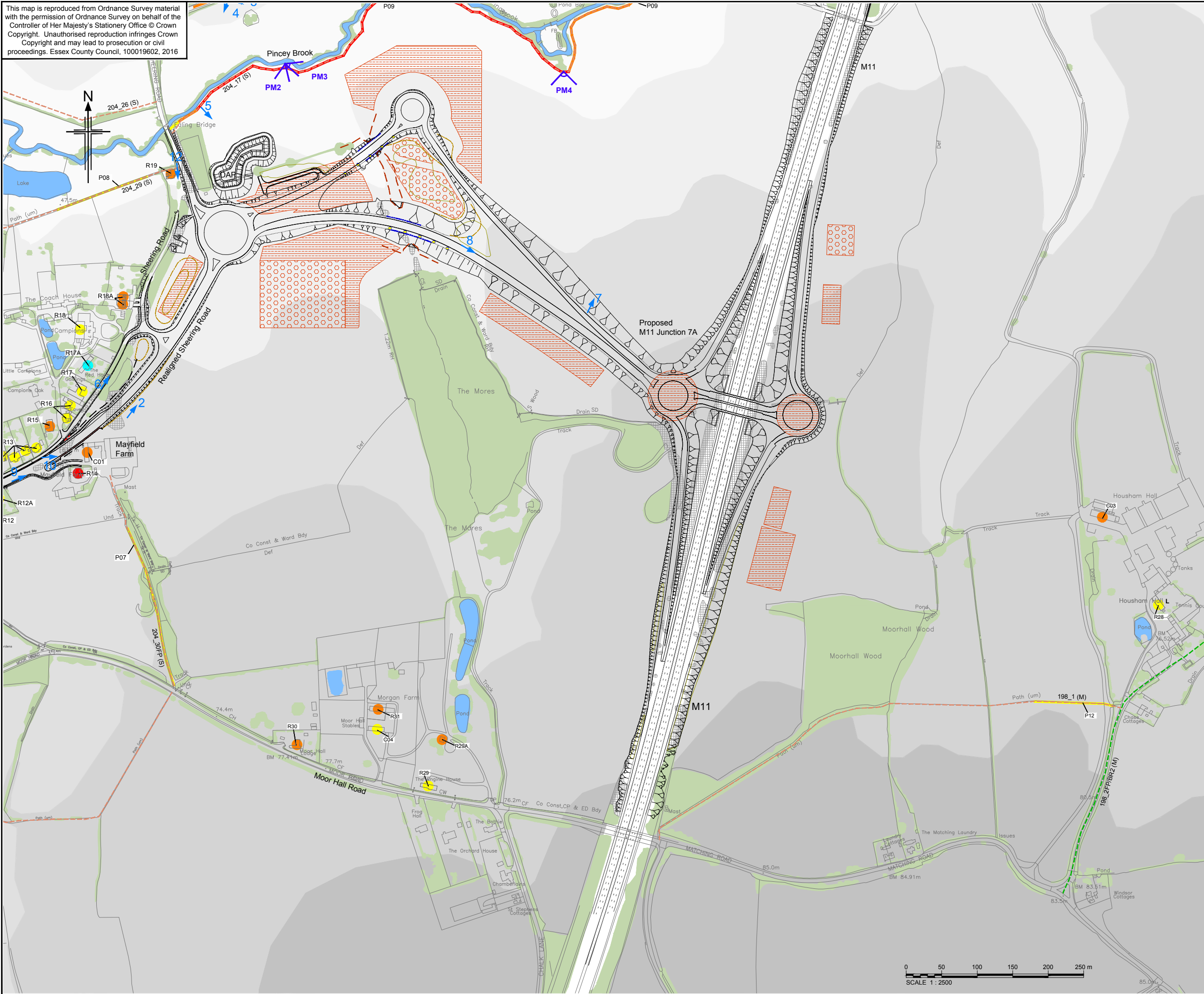
**M11 JUNCTION 7A**

**VISUAL EFFECTS AT YEAR OF COMPLETION (YEAR 1)**  
**FIGURE 7-6 Sheet 2 of 5**

DESIGNED	DRAWN	CHECKED	REVIEWED	APPROVED
AS	AC	BC	HM	PM
DATE DEC 16	DATE DEC 16	DATE DEC 16	DATE DEC 16	DATE DEC 16
DRAWING UNITS U.N.O. DIMENSIONS AND LEVELS IN METRES			SCALE AT A1 (841x594mm) 1:2500	
DRAWING No: <b>B3553F05-3000-DR-0402</b>				REV. <b>P00.1</b>

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**Notes:**  
 1. The letters AOD on the key to topography shading refer to ground levels Above Ordnance Datum

**Key**

- Existing woodland/trees/hedges
- Existing woodland/trees/hedges removed
- Conservation Area
- Proposed mounds and landscape earthworks
- Indicative location of construction compound to be removed at completion of construction
- Indicative location of soil storage area to be removed at completion of construction

**DAT** Underground drainage attenuation tank  
**DAP** Highway drainage attenuation pond

**PUBLIC RIGHTS OF WAY**  
 Path and bridleway numbers given with letters in brackets indicating Parish or Borough: (H) Harlow, (S) Sheering, (M) Matching.

185\_29(H) Public footpath  
 185\_29 (Harlow) Public bridleway

**VISUAL EFFECT SYMBOLS**  
 Colours: significance of visual effects in winter of the year of completion of construction (year 1) before proposed landscape planting has become established.

- Large adverse
- Moderate adverse
- Slight adverse
- Neutral (not shown)
- Slight beneficial

**C01 R01** Effects at individual properties. Reference number for visual effects schedule indicated - with prefix R for residential, C for commercial. L indicates Listed Building.  
**R02** Effects on a close row of properties (number of houses indicated).  
**R03** Effects on public rights of way and roads.  
**P01** Effects at other viewpoints (with identifying label).

**INDICATIVE NOISE BARRIERS**  
 Timber, height 2m  
 Absorbive, ht. 2.5m  
 Brick wall, ht. 2.5m  
 Barrier with transparent panels, height 2m  
 Red indicates barrier design for public security at access gaps

**PM1** Photomontage view 1 - viewpoint location  
**1,2,3** Photo viewpoint (Views in Appendix 7.4)

<50m AOD 50-60 70-80 >90m AOD  
 60-70 80-90

Key to topography shading

Rev.	Date	Description of revision	Drawn	Checked	Reviewed	Approved
-	-	-	-	-	-	-
P0	DEC 16	ISSUED FOR PLANNING APPLICATION	AC	BC	HM	PM

DRAWING STATUS  
**PRELIMINARY DESIGN**

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 Tel: 0345 6037631  
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SCHEME TITLE  
**M11 JUNCTION 7A**

DRAWING TITLE  
**VISUAL EFFECTS AT YEAR OF COMPLETION (YEAR 1)  
 FIGURE 7-6 Sheet 3 OF 5**

DESIGNED	DRAWN	CHECKED	REVIEWED	APPROVED
AS	AC	BC	HM	PM
DATE DEC 16	DATE DEC 16	DATE DEC 16	DATE DEC 16	DATE NOV 16

DRAWING UNITS U.N.O.  
 DIMENSIONS AND LEVELS IN METRES  
 SCALE AT A1 (841x594mm)  
 1:1000

DRAWING No.  
**B3553F05-3000-DR-0403**  
 REV.  
**P00.1**

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