

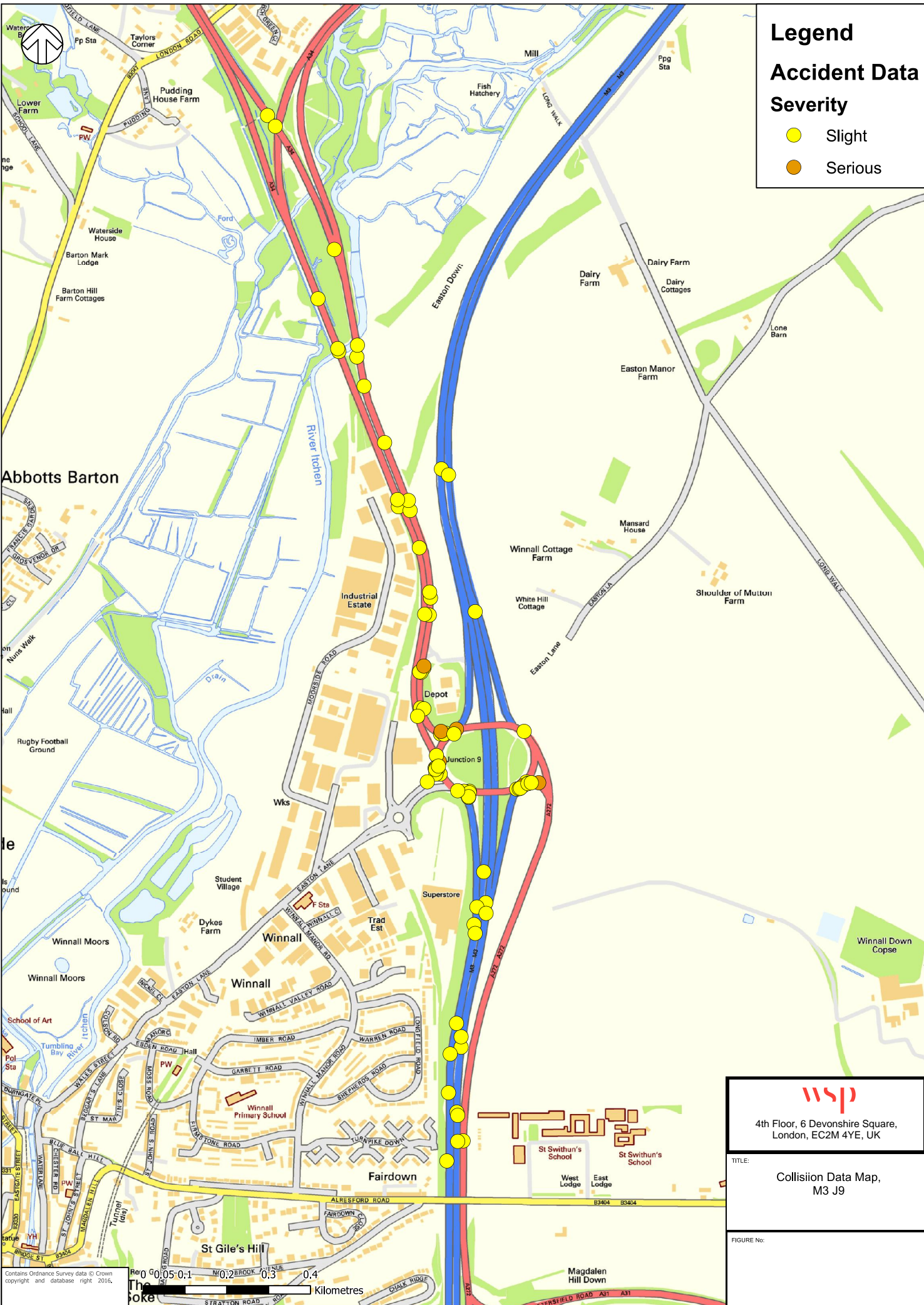
# M3

## **Junction 9 Improvement Scheme**

**PCF Stage 2 – Scheme Assessment Report**

# Appendix A


ACCIDENT PLOT



### Legend

#### Accident Data Severity

- Slight
- Serious



4th Floor, 6 Devonshire Square,  
London, EC2M 4YE, UK

---

TITLE:

Collision Data Map,  
M3 J9

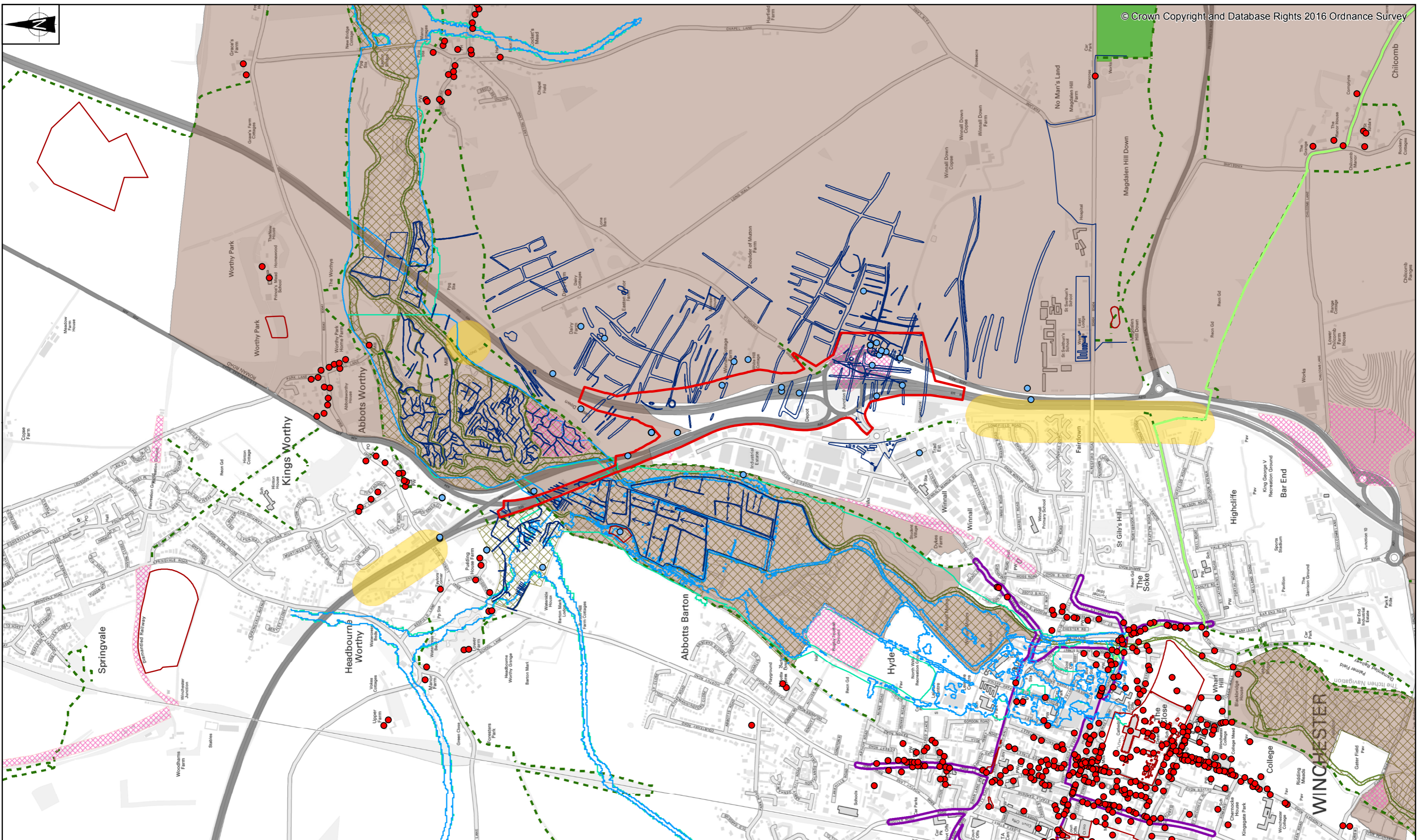
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FIGURE No:

# Appendix B

ENVIRONMENTAL CONSTRAINTS PLAN

DO NOT SCALE



**KEY:**

<span style="color: red;">●</span> LISTED BUILDING	<span style="border: 1px solid purple; padding: 2px;"> </span> AIR QUALITY MANAGEMENT AREA (2015)
<span style="color: blue;">●</span> NON- DESIGNATED HERITAGE ASSETS	<span style="background-color: yellow; border: 1px solid black; padding: 2px;"> </span> NOISE IMPORTANT AREA
<span style="border-bottom: 1px dashed green; width: 20px; display: inline-block;"></span> PUBLIC RIGHT OF WAY	<span style="background-color: brown; border: 1px solid black; padding: 2px;"> </span> NATIONAL PARK
<span style="border-bottom: 1px solid blue; width: 20px; display: inline-block;"></span> SDNP HAMPSHIRE DOWNS CROPMARKS	<span style="background: repeating-linear-gradient(45deg, transparent, transparent 2px, black 2px, black 4px); border: 1px solid black; padding: 2px;"> </span> SITE OF SPECIAL SCIENTIFIC INTEREST
<span style="border-bottom: 1px solid green; width: 20px; display: inline-block;"></span> NATIONAL TRAIL	<span style="border: 1px solid green; padding: 2px;"> </span> SPECIAL AREA OF CONSERVATION
<span style="background-color: green; border: 1px solid black; padding: 2px;"> </span> REGISTERED PARKS AND GARDENS	<span style="border: 2px solid red; padding: 2px;"> </span> MAXIMUM AREA OF WORKS (379453m <sup>2</sup> )
<span style="background: repeating-linear-gradient(45deg, transparent, transparent 2px, black 2px, black 4px); border: 1px solid black; padding: 2px;"> </span> HISTORIC LANDFILL	<span style="background-color: lightblue; border: 1px solid blue; padding: 2px;"> </span> FLOOD ZONE 3
<span style="border: 1px solid red; padding: 2px;"> </span> SCHEDULED MONUMENT	<span style="background-color: lightgreen; border: 1px solid green; padding: 2px;"> </span> FLOOD ZONE 2

Rev.	Date	Description	By	Chkd	App'd
P01.1	---	First Issue	---	---	---

Drawing Status: **SUITABLE FOR REVIEW & COMMENT**

Suitability: **S3**

Project Title: **REGIONAL INVESTMENT PROGRAMME M3 JUNCTION 9**

Drawing Title: **ENVIRONMENTAL CONSTRAINTS**

Scale: 1:15,000

Original Size: A3

Drawing Number: HE551511

Project: M3J9PCF2

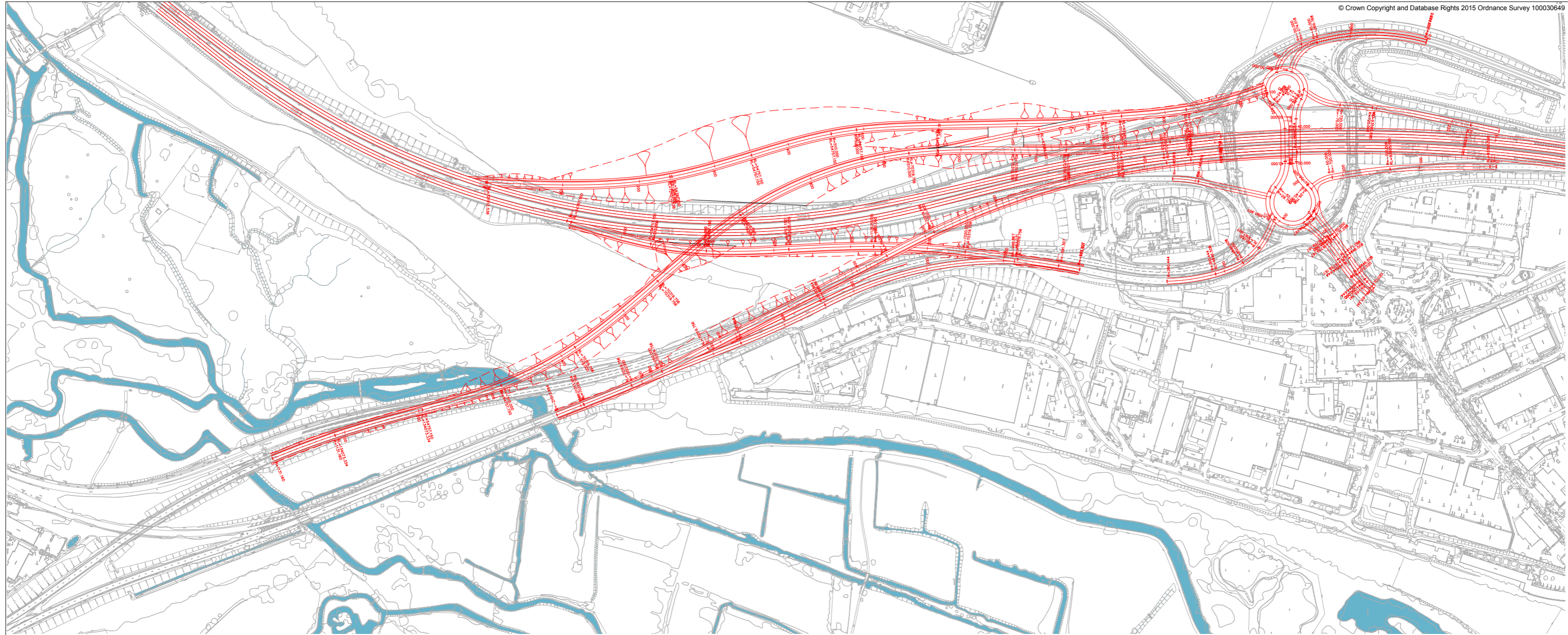
Location: [Blank]


Client: **Working on behalf of highways england**

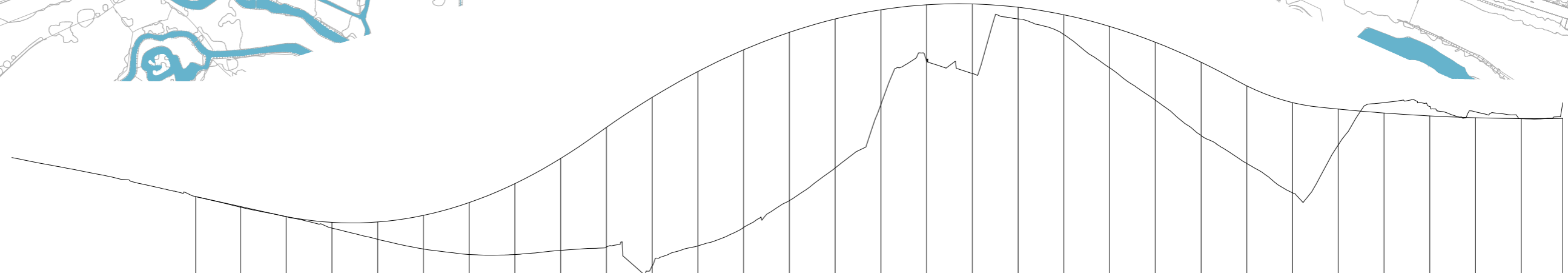
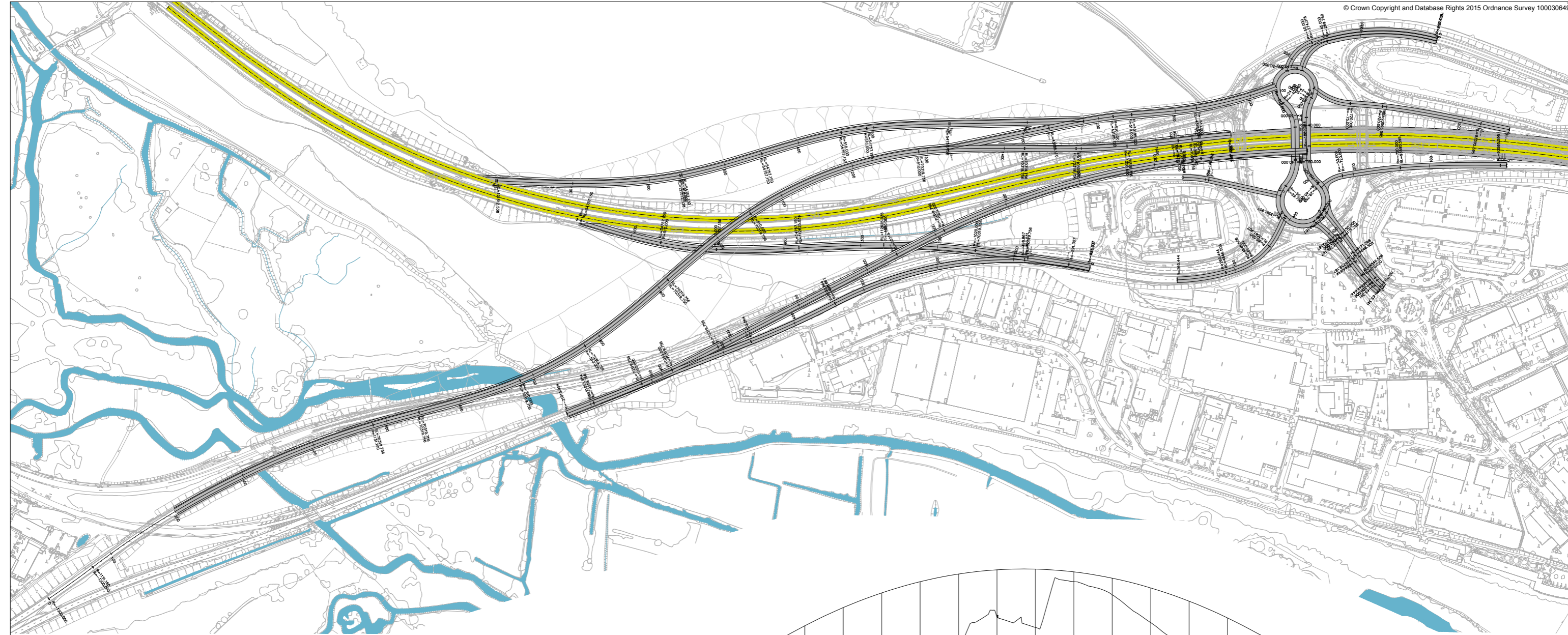
Scale	Drawn	Checked	Approved	Authorized
1:15,000	CS	CD	MM	DB
Original Size	Date	Date	Date	Date
A3	24/08/17	11/08/17	11/08/17	11/08/17
Drawing Number	Project	Originator	Volume	Project Ref. No.
HE551511	M3J9PCF2	WSP	EGN	70015218
Location	Type	Role	Number	Revision
M3J9PCF2	DR	LE	10303	P01.2

# Appendix C

PCF STAGE 0 REJECTED OPTIONS DRAWINGS



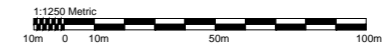
<table border="1"> <thead> <tr> <th>Rev</th> <th>Date</th> <th>Description</th> <th>By</th> <th>Chk</th> <th>App</th> <th>Key:</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>					Rev	Date	Description	By	Chk	App	Key:								Notes:		Client: 		Site/Project:         M3 JUNCTION 9		Title:         OPTION E 120Kph TWO STEP RELAXATION UNDER M3		Scale: 1:2500   A1 Sheet		DRAFT	
Rev	Date	Description	By	Chk	App	Key:																								
<table border="1"> <thead> <tr> <th>Drawn:</th> <th>Checked:</th> </tr> </thead> <tbody> <tr> <td>-</td> <td>-</td> </tr> </tbody> </table>							Drawn:	Checked:	-	-	<table border="1"> <thead> <tr> <th>Designed:</th> <th>Approved:</th> </tr> </thead> <tbody> <tr> <td>-</td> <td>-</td> </tr> </tbody> </table>							Designed:	Approved:	-	-	Date: FEB 2015		Drawing Number:		Revision:				
Drawn:	Checked:																													
-	-																													
Designed:	Approved:																													
-	-																													



Level Datum = 35.

Proposed Levels	507.3	499.000	499.000	499.000	499.000	48.387	44.293	43.651	43.705	44.424	45.819	47.890	50.636	54.029	57.303	60.123	62.489	64.400	65.856	66.858	67.405	67.498	67.136	66.319	65.049	63.323	61.143	58.558	56.730	56.027	55.597	55.280	55.077	54.989	55.007
Existing Levels	507.3	497.7	48.80	47.68	46.50	45.32	44.27	43.03	41.82	40.76	40.15	40.15	40.60	40.97	38.93	41.09	43.12	46.03	48.59	50.52	61.25	59.91	65.86	64.15	60.53	57.00	53.14	50.09	46.88	52.11	56.72	56.30	55.72	54.98	56.72
Diff : Prop to Extg						0.07	0.02	0.63	1.89	3.67	5.66	7.74	10.03	13.06	18.37	19.03	19.37	18.36	16.26	10.33	6.15	7.59	1.27	2.16	4.51	6.32	8.00	8.47	9.85	3.91	-1.13	-1.02	-0.64	0.01	
Vertical Alignment																																			
Chainage	0	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1+000	1+050	1+100	1+150	1+200	1+250	1+300	1+350	1+400	1+450	1+500	1+550	1+600	1+650	1+695

A34 SOUTHBOUND TO M3  
Horizontal Scale = 1:2500, Vertical Scale = 1:250



Rev	Date	Description	By	Chk	App	Key:

Notes:

Client:

Site/Project:

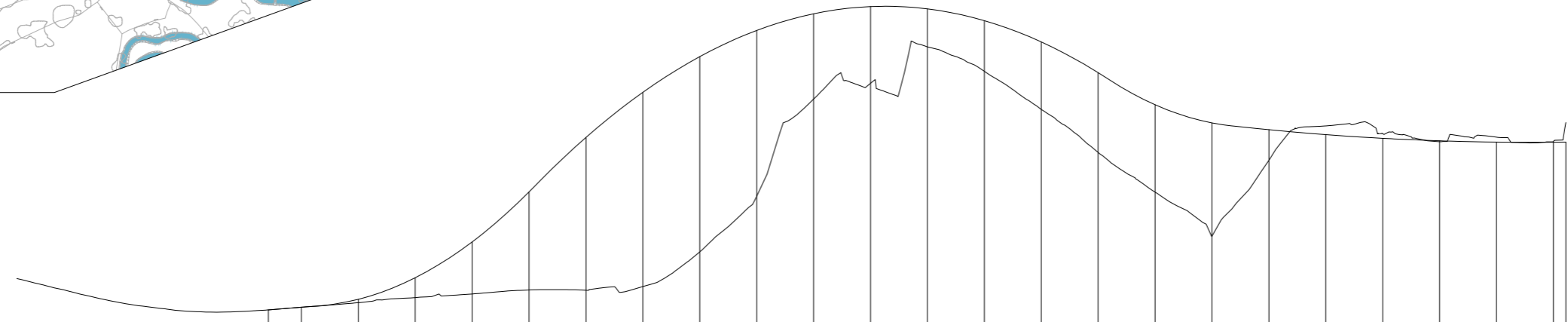


M3 JUNCTION 9

OPTION 13  
120kph TWO STEP RELAXATION  
OVER M3

<b>DRAFT</b>			
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Designed: -	Approved: -		
Date: FEB 2015	Scale: 1:2500	A1	Sheet: -
Drawing Number: -	Revision: -		

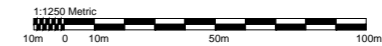




Level Datum = 35.

Proposed Levels	43.02	41.80	40.75	40.15	40.14	40.503	41.203	43.086	46.239	50.632	55.417	59.379	62.508	64.804	66.288	66.900	66.699	65.665	63.799	61.100	58.285	56.690	56.090	55.659	55.334	55.115	55.002	54.994	54.807
Existing Levels	43.02	41.80	40.75	40.15	40.14	40.51	40.91	41.36	41.67	42.02	42.00	42.32	45.37	50.25	58.78	60.17	63.36	61.22	57.87	54.09	50.62	46.74	53.41	56.42	55.74	55.04	55.44	55.95	56.72
Diff : Prop to Extg						-0.01	0.30	1.74	4.57	8.61	13.42	17.06	17.14	14.55	7.49	6.73	3.34	4.44	5.92	7.01	7.67	9.95	2.68	-0.76	-0.41	0.08	-0.44	-0.07	
Vertical Alignment	G=0.791						R=2000.000m L=188.520m			L=503.923m R=3003.000m						R=2000.000m L=108.113m		R=23632.980m L=294.250m											
Chainage	0	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1+000	1+050	1+100	1+150	1+200	1+250	1+300	1+350	1+361

A32 SOUTHBOUND TO M3  
Horizontal Scale = 1:2500, Vertical Scale = 1:250



Rev	Date	Description	By	Chk	App	Key

Notes:

Client:

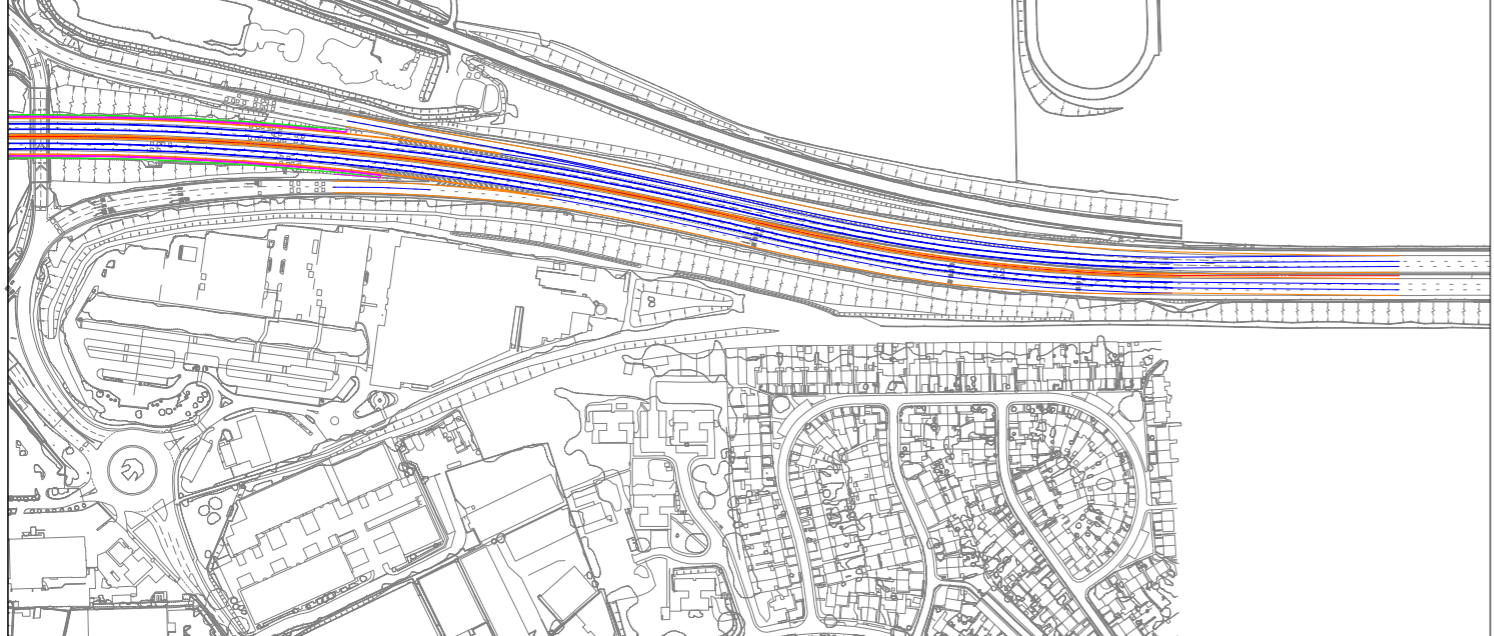
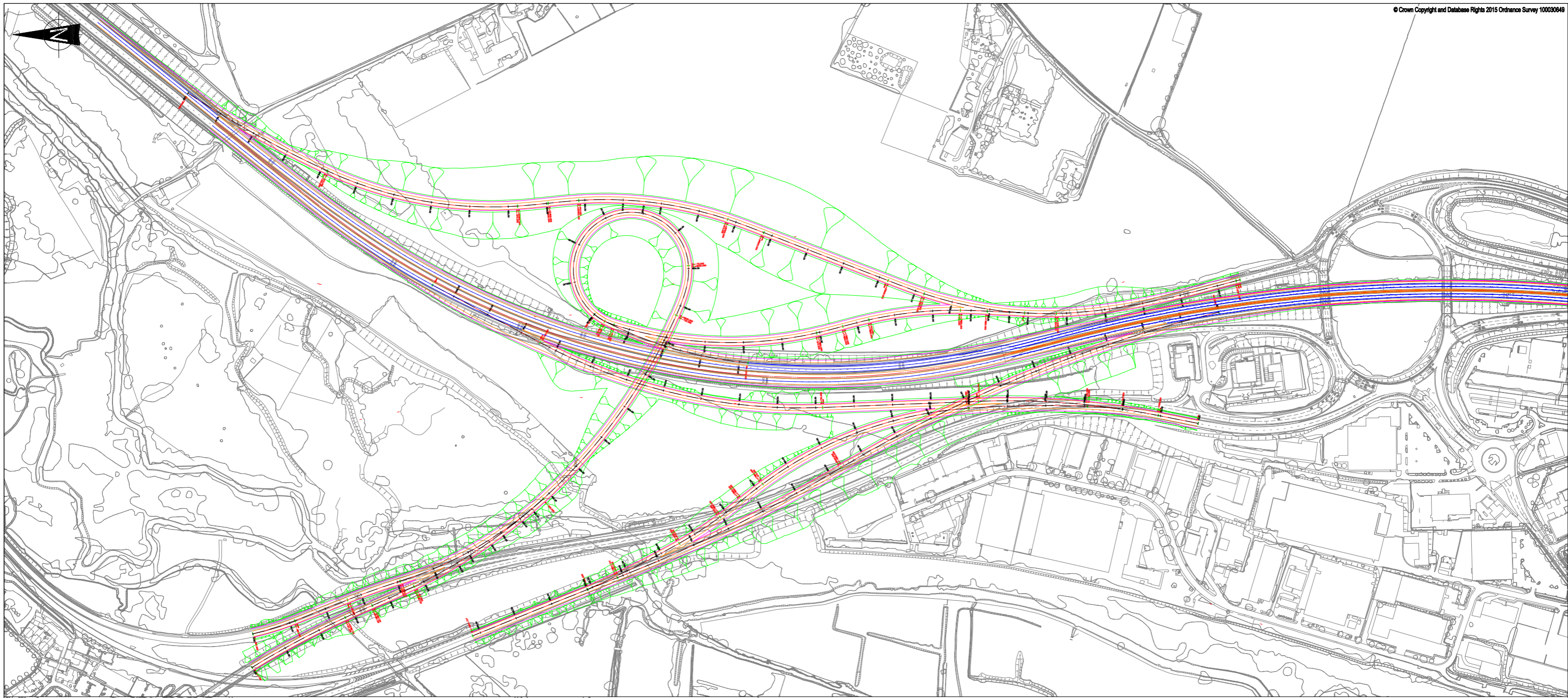
Site/Project:



M3 JUNCTION 9

OPTION 15  
85kph TWO STEP RELAXATION  
OVER M3

<b>DRAFT</b>			
Drawn: -	Checked: -		
Designed: -	Approved: -		
Date: FEB 2015	Scale: 1:2500	A1	Sheet: -
Drawing Number: -	Revised: -		



Rev	Date	Description	By	Chk	App	Key:

Notes:

Client:

6 Devonshire Square  
London  
EC2M 4YE

Tel: 44 (0)207 337 1100  
Fax: 44 (0)207 337 1101

Site/Project:

M3 JUNCTION 9

OPTION 17  
LOOP JUNCTION DESIGN  
(120KPH)

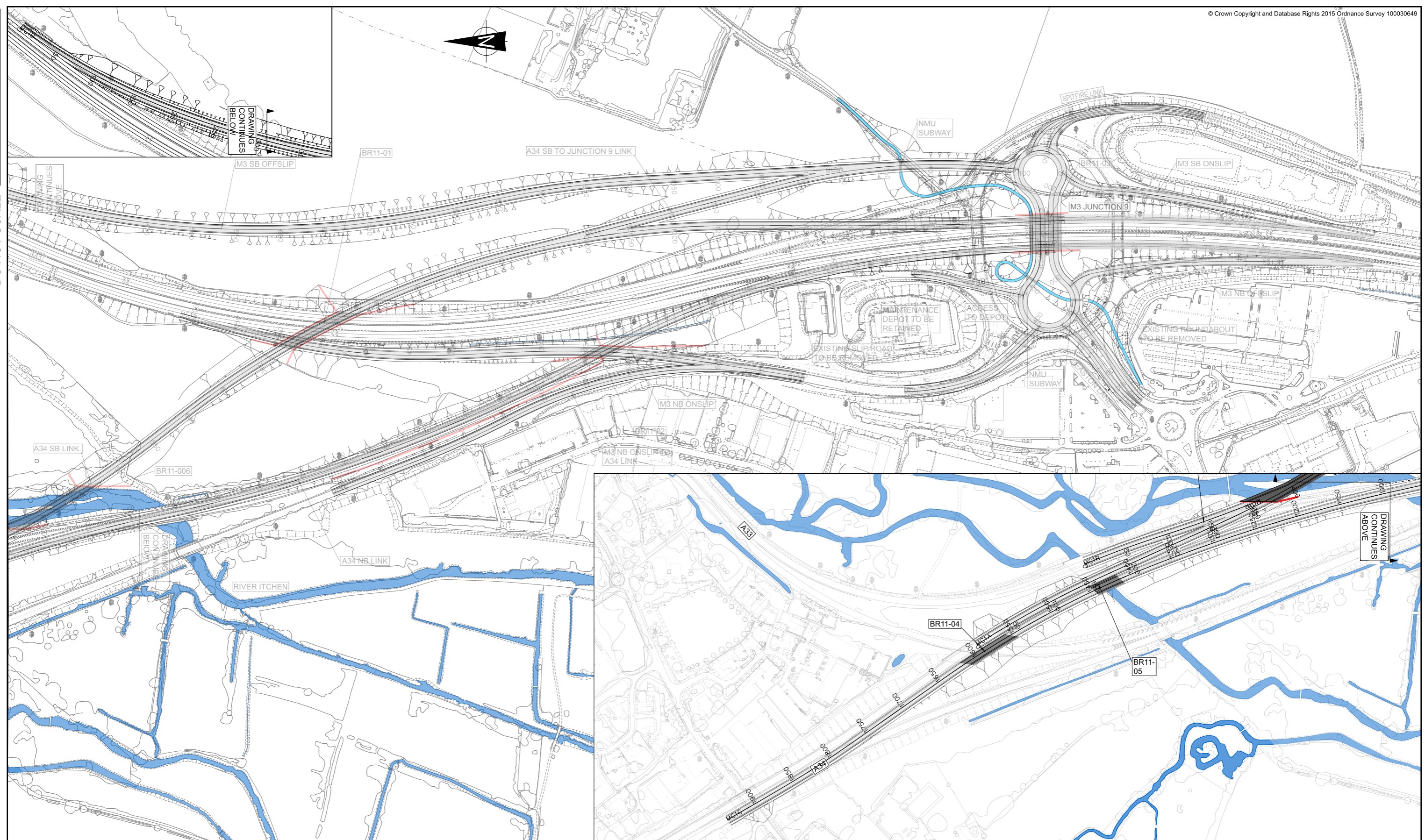
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Drawn:	Checked:		
Designed:	Approved:		
Date:	Scale: 1:2500 @ A1	A1	Sheet:
Drawing Number:			Revision:

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# Appendix D

PCF STAGE 1 REJECTED OPTIONS DRAWINGS

DO NOT SCALE



**NOT FOR CONSTRUCTION**  
 Information shown on this drawing is at the early stages of concept development. Therefore, this drawing is for information only. The alignment shown is indicative and is subject to changes.

**KEY:**

**LAYOUT PLAN**

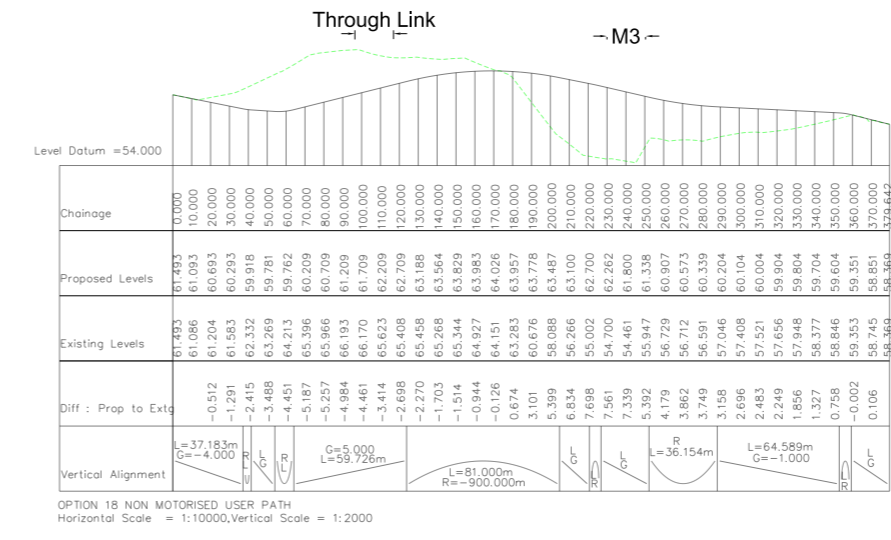
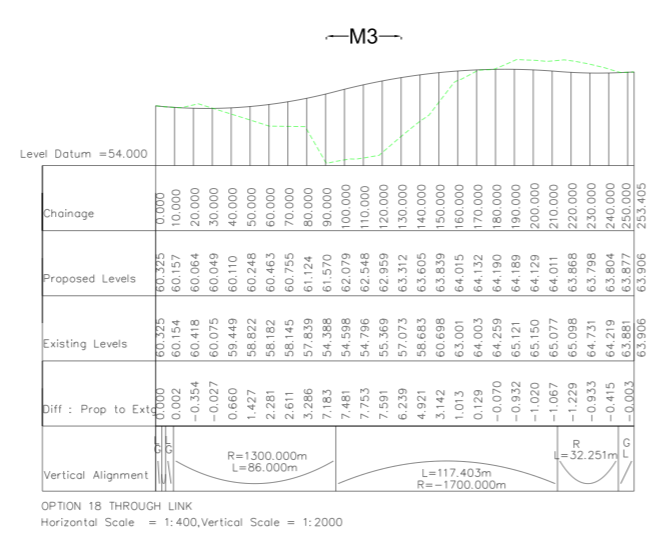
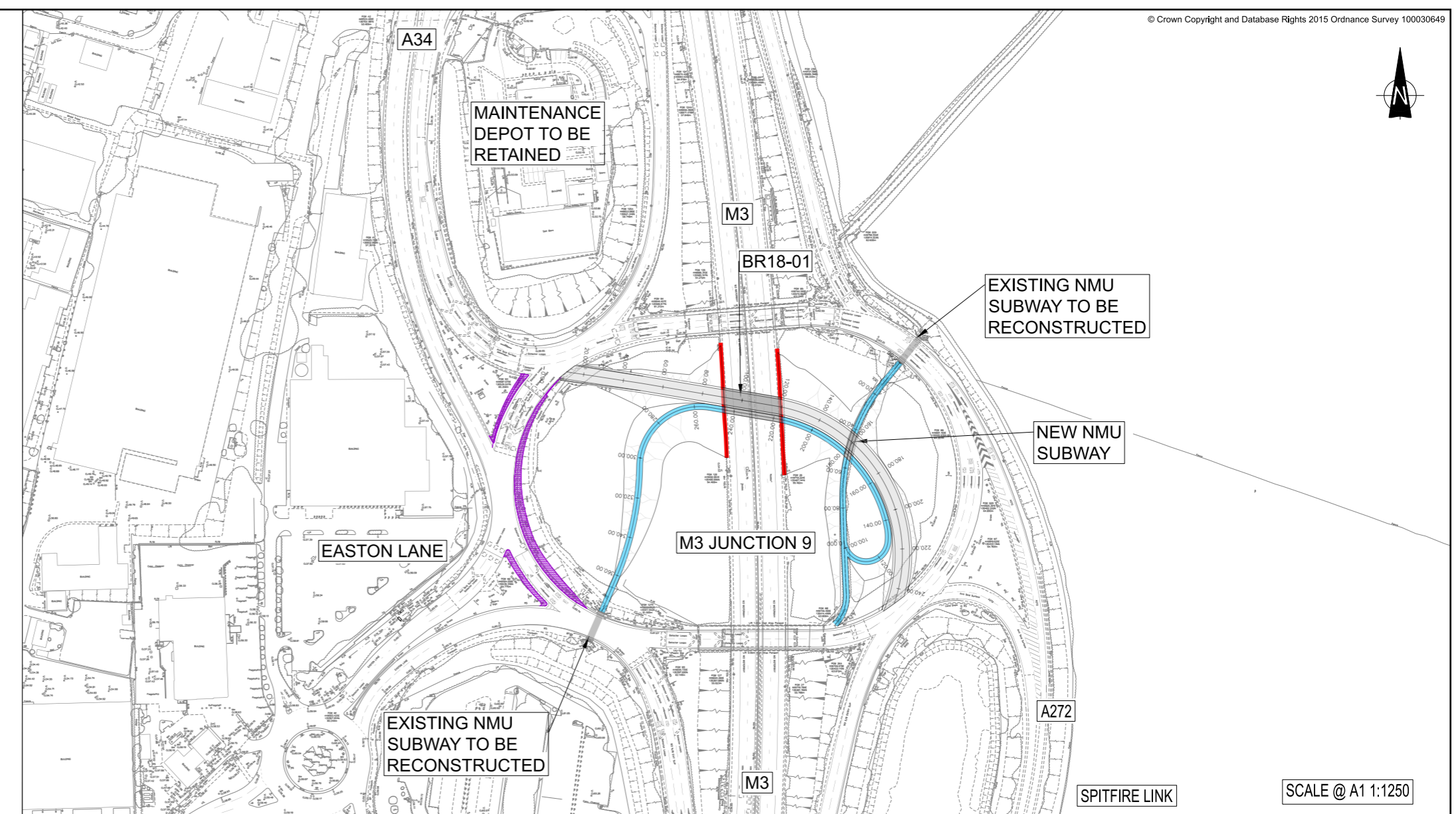
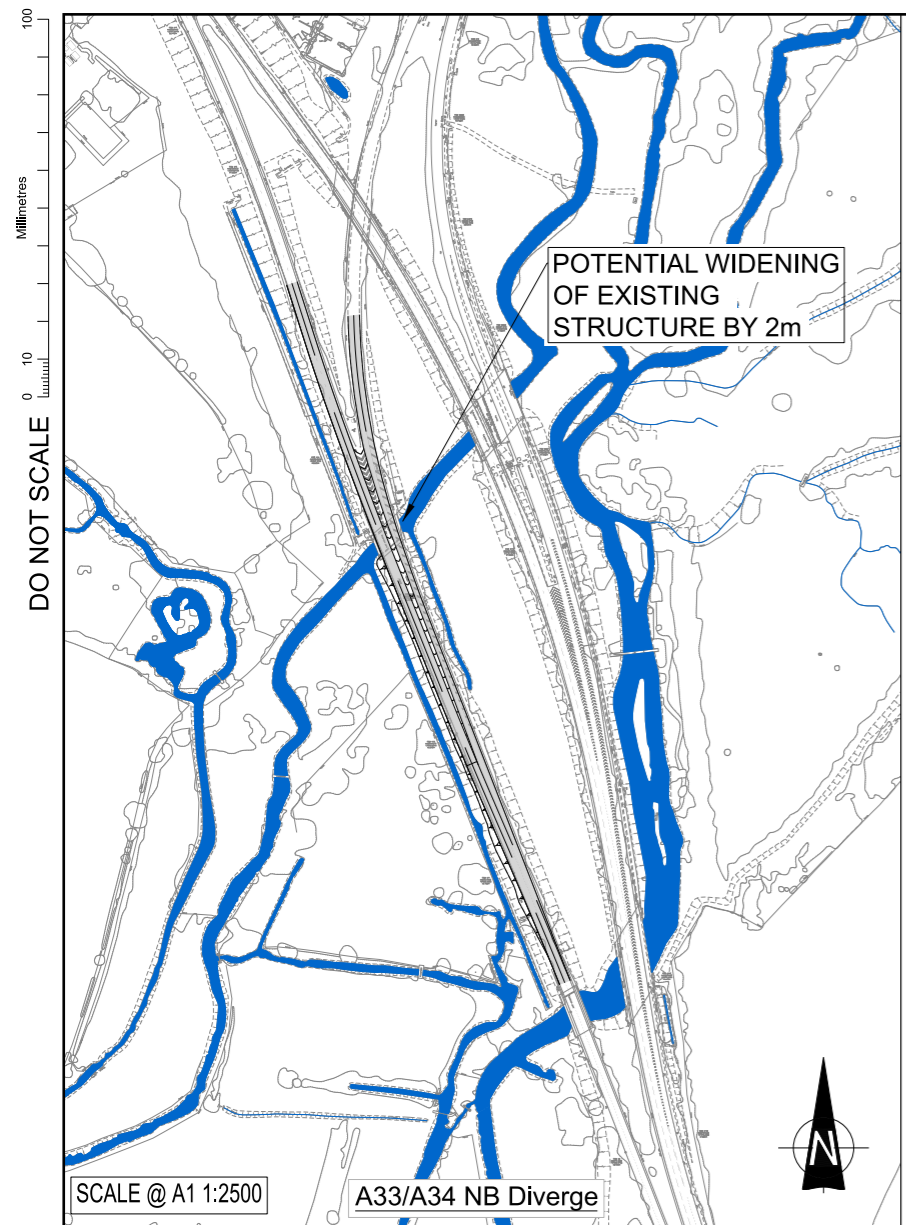
- Proposed Carriageway
- Bridge Deck
- Proposed Non Motorised User Path
- Retaining Wall/ Abutment Wall

Rev.	Date	Description	By	Chk'd	App'd
P01	04/07/16	FIRST ISSUE	KC	RT	DB
P02	05/08/16	For Stage Approval	KC	RT	DB

Drawing Status		Subsidiary		Project Title	
INITIAL STATUS OR WIP		S0		REGIONAL INVESTMENT PROGRAMME M3 JUNCTION 9	
 Mountbatten House Basing View Basingstoke Hampshire RG21 4HJ Tel: +44 (0)1256 318000		www.wsp-pb.com		Drawing Title <b>OPTION 11</b> SHEET 1 OF 3 120KPH FREE FLOW DESIGN LAYOUT PLAN	
© WSP UK Ltd Client		Working on behalf of 		Scale 1:2000 Original Size A1	
Drawn K.Coombes Date 05/08/16		Checked R.Tattersall Date 05/08/16		Approved D.Brooks Date 05/08/16	
Drawing Number HE551511 Project M3J9PCF1 Location		Originator WSP DR Type		Volume HGN 50001 Number	
				Project Ref. No. P02	

DRAWING CONTINUES BELOW

DRAWING CONTINUES ABOVE



**NOT FOR CONSTRUCTION**  
Information shown on this drawing is at the early stages of concept development. Therefore, this drawing is for information only. The alignment shown is indicative and is subject to changes.

**KEY:**  
**LAYOUT PLAN:**  
 Proposed 3m Non Motorised User Path  
 Proposed through link carriageway  
 Carriageway Widening  
 Bridge Decks  
 Abutment Wall

**LONGSECTION:**  
 Existing  
 Proposed

Rev.	Date	Description	By	Chkd	App'd
04/07/16					
P01	04/07/16	FIRST ISSUE	KC	RT	DB
P02	05/08/16	For Stage Approval	KC	RT	DB

Drawing Status: INITIAL STATUS OR WIP

Subsidiary: S0

Project Title: REGIONAL INVESTMENT PROGRAMME M3 JUNCTION 9

Client: WSP (WSP UK Ltd) | Parsons Brinckerhoff

Working on behalf of: highways england

Project: M3J9PCF1

Location: Basingstoke, Hampshire

Contact: Tel: +44 (0)1256 318000

Scale	Drawn	Checked	Approved	Authorised
AS SHOWN	K.Coombes	R.Tattersall	D.Brooks	---
Original Size	Date	Date	Date	Date
A1	05/08/16	05/08/16	05/08/16	---
Drawing Number	Project	Originator	Volume	Project Ref. No.
HE551511	M3J9PCF1	WSP	HGN	---
Location	Type	Role	Number	Revision
M3J9PCF1	DR	D	50009	P02

# Appendix E

DEPARTURES FROM STANDARD

# Departures from Standard Checklist M3 J9 Improvements

Last Update 16 November 2017

RAG		
Cost	Deadline Float	RAG
>£1,000,000	<2 weeks	Red
£100,000-£1,000,000	2-6 weeks	Amber
<£100,000	>6 weeks	Green

Scheme	Reference	Das ID	Rev	Departure Type	Standard against which Departure applies	Cost Impact RAG	Qualitative Impact RAG	DAS Status	Expected date for Submission to WebDAS	Actual Date Submitted to WebDAS	Date PM Passed to NetServ	Departure Description	Comments	Potential cost Saving by implementation of departure	Basis of the cost savings, Cost RAG, Qualitative RAG, and Deadline date	Date Last Updated	Changes at last update	Return status	Date received from NetServ	ADP Cert Ref	ADP Cert Issue Date	ADP Approved Date
<b>Departures - Option 14</b>																						
M3 Junction 9 Improvements	DEP-14-0001	-	-	Geometry	TD22/06 Para 4.36	R	R	To be submitted at PCF Stage 3	31/01/2018			TD22/06 Para 4.36 <i>For Rural All-Purpose Roads the desirable minimum weaving length is 1km.</i>	<b>A34 SB Link (Design Speed 100Akph, Mandatory Speed Limit as existing 50mph):</b> The weaving length between the A33 merge onto the A34 SB Link (chainage 20) and the A34 SB Junction 9 Link diverge (chainage 640) is 620m.  This is below the desirable minimum (1km) and therefore a departure.	<b>A34 SB Link (Design Speed 100Akph, Mandatory Speed Limit as existing 50mph):</b> To achieve the standard weaving length the existing M3 J9 would require relocating further south and substantial land take into a flood plain and SDNP. This departure would save the cost of the additional land take, new structures over River Itchen and additional earthworks.	<b>Cost RAG:</b> See potential cost saving.  <b>Qualitative RAG:</b> The current baseline scheme budget is £76M. It is anticipated that the construction cost of this option will be well in excess of this budget. This departure is required to make this option viable.  <b>Deadline date:</b> N/A	01/07/2016						
M3 Junction 9 Improvements	DEP-14-0002	-	-	Geometry	TD9/93 Table 3	G	R	To be submitted at PCF Stage 3	31/01/2018			TD9/93 Table 3 <i>Relaxations of 1 step and greater in horizontal curvature require a super-elevation of 7% for 100kph Design Speed.</i>	<b>A34 SB Link (Design Speed 100Akph, Mandatory Speed Limit as existing 50mph):</b> The 3 step relaxation in horizontal curvature in this location would require a super-elevation of 7%, however it is deemed inappropriate to provide a super-elevation of 7% in this location as vehicles are expected to be slowing as they are on the approach to the interchange junction.  A super-elevation of 5% is deemed more appropriate and has been provided in preference to the 7% between Chainage 025 to 141. This is therefore a departure from the standard.	<b>A34 SB Link (Design Speed 100Akph, Mandatory Speed Limit as existing 50mph):</b> No cost saving associated with departure.	<b>Cost RAG:</b> See potential cost saving.  <b>Qualitative RAG:</b> This departure provides a more appropriate cross section. The current baseline scheme budget is £76M. It is anticipated that the construction cost of this option will be well in excess of this budget. This departure is required to make this option viable.  <b>Deadline date:</b> N/A	01/07/2016						
M3 Junction 9 Improvements	DEP-14-0003	-	-	Geometry	TD9/93 Table 3	G	R	To be submitted at PCF Stage 3	31/01/2018			TD9/93 Table 3 <i>Relaxations of 1 step and greater in horizontal curvature require a super-elevation of 7% for 100kph Design Speed.</i>	<b>A34 SB Link (Design Speed 100Akph, Mandatory Speed Limit as existing 50mph):</b> The 3 step relaxation in horizontal curvature in this location would require a super-elevation of 7%, however it is deemed inappropriate to provide a super-elevation of 7% in this location as vehicles are expected to be slowing as they are on the approach to the interchange junction.  A super-elevation of 5% is deemed more appropriate and has been provided in preference to the 7% between chainage 446 to 746. This is therefore a departure from the standard.	<b>A34 SB Link (Design Speed 100Akph, Mandatory Speed Limit as existing 50mph):</b> No cost saving associated with departure.	<b>Cost RAG:</b> See potential cost saving.  <b>Qualitative RAG:</b> This departure provides a more appropriate cross section. The current baseline scheme budget is £76M. It is anticipated that the construction cost of this option will be well in excess of this budget. This departure is required to make this option viable.  <b>Deadline date:</b> N/A	01/07/2016						
M3 Junction 9 Improvements	DEP-14-0004	-	-	Geometry	TD9/93 Table 3 Para 1.26	R	R	To be submitted at PCF Stage 3	31/01/2018			TD9/93 Para 1.26 <i>Relaxations below Desirable Minimum vertical curvature are not permitted on the immediate approach to a junction for 120kph Design Speed.</i>	<b>A34 NB Link (Design Speed 120kph):</b> As the proposed A34 NB Link passes over the proposed M3 northbound merge the vertical crest curvature is reduced to k = 55. This is a 2 step relaxation in standard.  This relaxation is required to enable the scheme to tie into both the existing A34 and M3 carriageways at their earliest point.  This relaxation in vertical crest curvature is on the immediate approach to the merge from the J9 Roundabout. Relaxations in vertical curvature are not permitted on the immediate approach to junctions and this is therefore a departure.	<b>A34 NB Link (Design Speed 120kph):</b> To achieve the desirable minimum crest curve a longer length of curve would be required and this would prevent the proposed carriageway from tying into the existing alignment to both the north and south without impacting the existing River Itchen bridges or the M3 carriageway. This departure would save the additional cost of earthworks and new bridges.	<b>Cost RAG:</b> See potential cost saving.  <b>Qualitative RAG:</b> The current baseline scheme budget is £76M. It is anticipated that the construction cost of this option will be well in excess of this budget. This departure is required to make this option viable.  <b>Deadline date:</b> N/A	01/07/2016						
M3 Junction 9 Improvements	DEP-14-0005	-	-	Geometry	TD22/06 Para 4.36	R	R	To be submitted at PCF Stage 3	31/01/2018			TD22/06 Para 4.36 <i>For Rural All-Purpose Roads the desirable minimum weaving length is 1km.</i>	<b>A34 NB Link (Design Speed 120kph):</b> The weaving length between the merge between the M3 NB merge to A34 Link onto the A34 NB Link and the A33 diverge is 250m.  This is below the desirable minimum (1km) and therefore a departure.	<b>A34 NB Link (Design Speed 120kph):</b> To achieve the standard weaving length the existing M3 J9 would require relocating further south and the A33 diverge further north. This departure would save the cost of the additional land take, structures and earthworks.	<b>Cost RAG:</b> See potential cost saving.  <b>Qualitative RAG:</b> The current baseline scheme budget is £76M. It is anticipated that the construction cost of this option will be well in excess of this budget. This departure is required to make this option viable.  <b>Deadline date:</b> N/A	01/07/2016						
M3 Junction 9 Improvements	DEP-14-0006	-	-	Geometry	TD9/93 Para 1.24 Para 1.26	R	R	Issued	31/01/2018			TD9/93 Para 1.24 <i>SSD relaxations of 1 step may be coincident with horizontal curvature relaxations of 1 step. All other combinations of relaxations are not permitted.</i>  TD9/93 Para 1.26 <i>Relaxations below Desirable Minimum in SSD are not permitted on the immediate approach to a junction.</i>	<b>A34 SB Link (Design Speed 100Akph, Mandatory Speed Limit as existing 50mph):</b> As the proposed A34 SB Link passes under the M3 (chainage 410 to 500) the SSD is reduced as the abutments to the overbridge restrict visibility. SSD is reduced to a minimum of 160m. This is a 1 step relaxation in standard.  The Horizontal Curvature in this location is 255m. This is a 3 step relaxation in standard.  The relaxation in SSD is on the immediate approach to the A34 to Junction 9 roundabout diverges junction. Relaxations in SSD are not permitted on the immediate approach to junctions and this is therefore a departure.  Combinations of relaxations in SSD and Horizontal Curvature greater than 1 step are not permitted and are therefore a departure.	<b>A34 SB Link (Design Speed 100Akph, Mandatory Speed Limit as existing 50mph):</b> To achieve desirable minimum SSD would require the bridge under the M3 to be 9m wider. This departure saves the cost of this additional bridge span.	<b>Cost RAG:</b> See potential cost saving.  <b>Qualitative RAG:</b> The current baseline scheme budget is £76M. It is anticipated that the construction cost of this option will be well in excess of this budget. This departure is required to make this option viable.  <b>Deadline date:</b> N/A	01/07/2016						

# Departures from Standard Checklist M3 J9 Improvements

Last Update 16 November 2017

RAG		
Cost	Deadline Float	
>£1,000,000	<2 weeks	Red
£100,000-£1,000,000	2-6 weeks	Amber
<£100,000	>6 weeks	Green

Scheme	Reference	Das ID	Rev	Departure Type	Standard against which Departure applies	Cost Impact RAG	Qualitative Impact RAG	DAS Status	Expected date for Submission to WebDAS	Actual Date Submitted to WebDAS	Date PM Passed to NetServ	Departure Description	Comments	Potential cost Saving by implementation of departure	Basis of the cost savings, Cost RAG, Qualitative RAG, and Deadline date	Date Last Updated	Changes at last update	Return status	Date received from NetServ	ADP Cert Ref	ADP Cert Issue Date	ADP Approved Date	
M3 Junction 9 Improvements	DEP-14-0007	-	-	Geometry	TD9/93 Para 1.24 Para 1.26	R	R	To be submitted at PCF Stage 3	31/01/2018			<p><b>TD9/93 Para 1.24</b> SSD relaxations of 1 step may be coincident with horizontal curvature relaxations of 1 step. All other combinations of relaxations are not permitted.</p> <p><b>TD9/93 Para 1.26</b> Relaxations below Desirable Minimum in SSD are not permitted on the immediate approach to a junction.</p>	<p><b>A34 SB Link (Design Speed 100Akph, Mandatory Speed Limit as existing 50mph):</b> As the proposed A34 SB Link ascends after passing under the M3 the crest curve is reduced to k = 55 (chainage 570 to 765). This is a 1 step relaxation in standard.</p> <p>This relaxation is required to enable the scheme to tie into both the levels under the proposed under bridge and the existing M3.</p> <p>The Horizontal Curvature in this location is 255m. This is a 3 step relaxation in standard.</p> <p>The relaxation in vertical crest curvature is on the immediate approach to the A34 to Junction 9 roundabout diverge junction. Relaxations in vertical curvature are not permitted on the immediate approach to junctions and this is therefore a departure.</p> <p>Combinations of relaxations in Horizontal and Vertical curvature are not permitted and are therefore a departure.</p>	<p><b>A34 SB Link (Design Speed 100Akph, Mandatory Speed Limit as existing 50mph):</b> To achieve the desirable minimum crest curve a longer length of curve would be required and this would prevent the proposed carriageway from tying in to the existing alignment on the M3 without moving the M3 underbridge further north and the impacts that would bring to the rest of the alignment.</p>	<p><b>Cost RAG:</b> See potential cost saving.</p> <p><b>Qualitative RAG:</b> The current baseline scheme budget is £76M. It is anticipated that the construction cost of this option will be well in excess of this budget. This departure is required to make this option viable.</p> <p><b>Deadline date:</b> N/A</p>	01/07/2016							
M3 Junction 9 Improvements	DEP-14-0008	-	-	Geometry	TD22/06 Para 2.46	R	R	To be submitted at PCF Stage 3	31/01/2018			<p><b>TD22/06 Para 2.46</b> A near straight at least equal in length to the nose length must be provided downstream of the back of the diverge nose.</p>	<p><b>M3 NB onslip to A34 Link (Design Speed 85kph):</b> To minimise the deviation from the existing slip road and due to land constraints, the nose of the diverge (chainage 70) follows a curve.</p> <p>A near straight at least equal in length to the nose length must be provided downstream of the back of the diverge nose, therefore this is a departure.</p>	<p><b>M3 NB onslip to A34 Link (Design Speed 85kph):</b> To achieve the required straight length would require additional land take. This departure would save the cost of additional land take.</p>	<p><b>Cost RAG:</b> See potential cost saving.</p> <p><b>Qualitative RAG:</b> The current baseline scheme budget is £76M. It is anticipated that the construction cost of this option will be well in excess of this budget. This departure is required to make this option viable.</p> <p><b>Deadline date:</b> N/A</p>	05/05/2017							
M3 Junction 9 Improvements	DEP-14-0009	-	-	Geometry	TD9/93 Table 3	R	R	To be submitted at PCF Stage 3	31/01/2018			<p><b>TD9/93 Table 3</b> The one step below desirable minimum stopping sight distance for a 85kph design speed is 120m.</p>	<p><b>M3 NB onslip to A34 Link (Design Speed 85kph):</b> The stopping sight distance at the horizontal curve (chainage 0 to 549) is 90m.</p> <p>This is below the one step below desirable minimum value (120m) and is therefore a departure.</p> <p>According to IAN 198/17 because this is an improvement to existing carriageway this can be categorised as a relaxation instead of a departure.</p>	<p><b>M3 NB onslip to A34 Link (Design Speed 85kph):</b> No cost saving associated with departure.</p>	<p><b>Cost RAG:</b> See potential cost saving.</p> <p><b>Qualitative RAG:</b> The current baseline scheme budget is £76M. It is anticipated that the construction cost of this option will be well in excess of this budget. This departure is required to make this option viable.</p> <p><b>Deadline date:</b> N/A</p>	05/05/2017							
<b>Departures - Option 16B</b>																							
M3 Junction 9 Improvements	DEP-16B-0001	-	-	Geometry	TD9/93 Table 3 Para 1.24	R	R	To be submitted at PCF Stage 3	31/01/2018			<p><b>TD9/93 Para 1.24</b> SSD relaxations of 1 step may be coincident with horizontal curvature relaxations of 1 step. All other combinations of relaxations are not permitted.</p>	<p><b>A34 SB Link to roundabout (Design Speed 85kph):</b> As the proposed A34 SB Link to roundabout passes under the proposed A34 NB link (chainage 279 to 400) the SSD is reduced as the abutments to the overbridge restrict visibility. SSD is reduced to a range between 119m to 90m. This is a 2 step relaxation in standard.</p> <p>The Horizontal Curvature in this location is 255m. This is a 2 step relaxation in standard.</p> <p>Combinations of relaxations in SSD and Horizontal Curvature greater than 1 step are not permitted and are therefore a departure.</p>	<p><b>A34 SB Link to roundabout (Design Speed 85kph):</b> To achieve desirable minimum SSD would require the bridge under the M3 to be 11m wider. This departure saves the cost of this additional bridge span.</p>	<p><b>Cost RAG:</b> See potential cost saving.</p> <p><b>Qualitative RAG:</b> The current baseline scheme budget is £76M. It is anticipated that the construction cost of this option may be in excess of this budget. This departure is required to make this option viable.</p> <p><b>Deadline date:</b> N/A</p>	01/07/2016							
M3 Junction 9 Improvements	DEP-16B-0002	-	-	Geometry	TD27/05/ IAN149 Table 4-1	R	R	To be submitted at PCF Stage 3	31/01/2018			<p><b>TD27/05 / IAN149 Table 4-1</b> Hierarchy of reduced cross-sections of widening for D3 and D4 on existing rural motorways.</p>	<p><b>M3 Mainline at Junction 9 Underbridge (Design Speed 120kph):</b> To widen the existing M3 through the existing J9 over bridges it is proposed to reduce the cross section using IAN 149 Table 4-1.</p> <p>The proposed cross section is based on IAN 149, Table 4-1 Priority 11 with: Central Reserve: 2.60m (including hard strips) Lane 3: 3.30m Lane 2: 3.55m Lane 1: 3.65m Discontinuous HS/EA: 0.70m Setback to barrier: 0.60m</p>	<p><b>M3 Mainline at Junction 9 Underbridge (Design Speed 120kph):</b> To achieve the standard cross section for a D3M would require demolition of the existing structure and replacement with a new structure to provide the available width for a standard cross-section.</p>	<p><b>Cost RAG:</b> See potential cost saving.</p> <p><b>Qualitative RAG:</b> The current baseline scheme budget is £76M. It is anticipated that the construction cost of this option may be in excess of this budget. This departure is required to make this option viable.</p> <p><b>Deadline date:</b> N/A</p>	01/07/2016							
M3 Junction 9 Improvements	DEP-16B-0003	-	-	Geometry	TD22/06 Para 4.36	R	R	To be submitted at PCF Stage 3	31/01/2018			<p><b>TD22/06 Para 4.36</b> For Rural All-Purpose Roads the desirable minimum weaving length is 1km.</p>	<p><b>A34 NB Link (Design Speed 120kph):</b> The weaving length between the merge between the A34 NB Link and the roundabout to A34 NB Link and the A33 diverge is 250m.</p> <p>This is below the desirable minimum (1km) and therefore a departure.</p>	<p><b>A34 NB Link (Design Speed 120kph):</b> To achieve the standard weaving length the existing M3 J9 would require relocating further south and the A33 diverge further north. This departure would save the cost of the additional land take, structures and earthworks.</p>	<p><b>Cost RAG:</b> See potential cost saving.</p> <p><b>Qualitative RAG:</b> The current baseline scheme budget is £76M. It is anticipated that the construction cost of this option may be in excess of this budget. This departure is required to make this option viable.</p> <p><b>Deadline date:</b> N/A</p>	01/07/2016							



# Departures from Standard Checklist M3 J9 Improvements

Last Update 16 November 2017

RAG		
Cost	Deadline Float	
>£1,000,000	<2 weeks	Red
£100,000-£1,000,000	2-6 weeks	Amber
<£100,000	>6 weeks	Green

Scheme	Reference	Das ID	Rev	Departure Type	Standard against which Departure applies	Cost Impact RAG	Qualitative Impact RAG	DAS Status	Expected date for Submission to WebDAS	Actual Date Submitted to WebDAS	Date PM Passed to NetServ	Departure Description	Comments	Potential cost Saving by implementation of departure	Basis of the cost savings, Cost RAG, Qualitative RAG, and Deadline date	Date Last Updated	Changes at last update	Return status	Date received from NetServ	ADP Cert Ref	ADP Cert Issue Date	ADP Approved Date		
M3 Junction 9 Improvements	DEP-16B-0004	-	-	Geometry	TD9/93 Table 3	R	R	To be submitted at PCF Stage 3	01/02/2018			<b>TD9/93 Table 3</b> Absolute minimum Sag K value for a 120kph design speed is k=37.	<b>A34 NB Link (Design Speed 120kph):</b> The Sag K value of the vertical curve at the merge with the A34 (chainage 599 to 752) is k=26.  This is below the absolute minimum (k=37) and is therefore a departure.	<b>A34 NB Link (Design Speed 120kph):</b> To achieve the required Sag K value would require merging with the A34 further north, resulting in additional land acquisition and affecting the bridge over the River Itchen. This departure would save the cost of additional land take and bridge works.	<b>Cost RAG:</b> See potential cost saving.  <b>Qualitative RAG:</b> The current baseline scheme budget is £76M. It is anticipated that the construction cost of this option may be in excess of this budget. This departure is required to make this option viable.  <b>Deadline date:</b> N/A	05/05/2017								
M3 Junction 9 Improvements	DEP-16B-0005	-	-	Geometry	TD9/93 Table 3	R	R	To be submitted at PCF Stage 3	02/02/2018			<b>TD9/93 Table 3</b> One step below desirable minimum Crest K value for a 120kph design speed is k = 100.	<b>A34 NB Link (Design Speed 120kph):</b> The start of the slip road follows the edge of the M3. In order to maintain sufficient crossfall and minimise land acquisition a vertical crest curve with k=55 has been used over the A34 SB Link to roundabout and M3 NB onslip (chainage 167 to 582).  This is below the one step below desirable minimum value (k=100) and is therefore a departure.	<b>A34 NB Link (Design Speed 120kph):</b> To achieve the required Crest K value would require additional land take. This departure would save the cost of the additional land take.	<b>Cost RAG:</b> See potential cost saving.  <b>Qualitative RAG:</b> The current baseline scheme budget is £76M. It is anticipated that the construction cost of this option may be in excess of this budget. This departure is required to make this option viable.  <b>Deadline date:</b> N/A	05/05/2017								
M3 Junction 9 Improvements	DEP-16B-0006	-	-	Geometry	TD9/93 Table 3	R	R	To be submitted at PCF Stage 3	03/02/2018			<b>TD9/93 Table 3</b> The one step below desirable minimum stopping sight distance for a 120kph design speed is 215m.	<b>A34 NB Link (Design Speed 120kph):</b> The stopping sight distance at the merge with the A34 (chainage 599 to 752) is 160m.  This is below the one step below desirable minimum value (215m) and is therefore a departure.	<b>A34 NB Link (Design Speed 120kph):</b> To achieve the required Sag K value would require merging with the A34 further north, resulting in additional land acquisition and affecting the bridge over the River Itchen. This departure would save the cost of additional land take and bridge works.	<b>Cost RAG:</b> See potential cost saving.  <b>Qualitative RAG:</b> The current baseline scheme budget is £76M. It is anticipated that the construction cost of this option may be in excess of this budget. This departure is required to make this option viable.  <b>Deadline date:</b> N/A	05/05/2017								
M3 Junction 9 Improvements	DEP-16B-0007	-	-	Geometry	TD9/93 Table 3	R	R	To be submitted at PCF Stage 3	04/02/2018			<b>TD9/93 Table 3</b> The one step below desirable minimum stopping sight distance for a 120kph design speed is 215m.	<b>A34 NB Link (Design Speed 120kph):</b> The start of the slip road follows the edge of the M3. In order to maintain sufficient crossfall and minimise land acquisition a stopping sight distance of 160m has been used over the A34 SB Link to roundabout and M3 NB onslip (chainage 167 to 582).  This is below the one step below desirable minimum value (215m) and is therefore a departure.	<b>A34 NB Link (Design Speed 120kph):</b> To achieve the required stopping sight distance would require additional land take. This departure would save the cost of the additional land take.	<b>Cost RAG:</b> See potential cost saving.  <b>Qualitative RAG:</b> The current baseline scheme budget is £76M. It is anticipated that the construction cost of this option may be in excess of this budget. This departure is required to make this option viable.  <b>Deadline date:</b> N/A	05/05/2017								
M3 Junction 9 Improvements	DEP-16B-0008	-	-	Geometry	TD9/93 Table 3	R	R	To be submitted at PCF Stage 3	08/02/2018			<b>TD9/93 Table 3</b> The one step below desirable minimum stopping sight distance for a 85kph design speed is 120m.	<b>Roundabout to A34 NB Link (Design Speed 85kph):</b> The stopping sight distance at the horizontal curve (chainage 0 to 549) is 90m.  This is below the one step below desirable minimum value (120m) and is therefore a departure.  According to IAN 198/17 because this is an improvement to existing carriageway this can be categorised as a relaxation instead of a departure.	<b>Roundabout to A34 NB Link (Design Speed 85kph):</b> No cost saving associated with departure.	<b>Cost RAG:</b> See potential cost saving.  <b>Qualitative RAG:</b> The current baseline scheme budget is £76M. It is anticipated that the construction cost of this option may be in excess of this budget. This departure is required to make this option viable.  <b>Deadline date:</b> N/A	05/05/2017								
M3 Junction 9 Improvements	DEP-16B-0009	-	-	Geometry	TD9/93 Table 3	R	R	To be submitted at PCF Stage 3	09/02/2018			<b>TD9/93 Table 3</b> Required superelevation for a horizontal curvature of 255m and a 70kph design speed is 7%.	<b>M3 NB Onslip (Design Speed 70kph):</b> The superelevation from chainage 187 to 292 is 5%.  This is below the required value (7%) and is therefore a departure.	<b>M3 NB Onslip (Design Speed 70kph):</b> No cost saving associated with departure.	<b>Cost RAG:</b> See potential cost saving.  <b>Qualitative RAG:</b> The current baseline scheme budget is £76M. It is anticipated that the construction cost of this option may be in excess of this budget. This departure is required to make this option viable.  <b>Deadline date:</b> N/A	05/05/2017								

# Departures from Standard Checklist M3 J9 Improvements

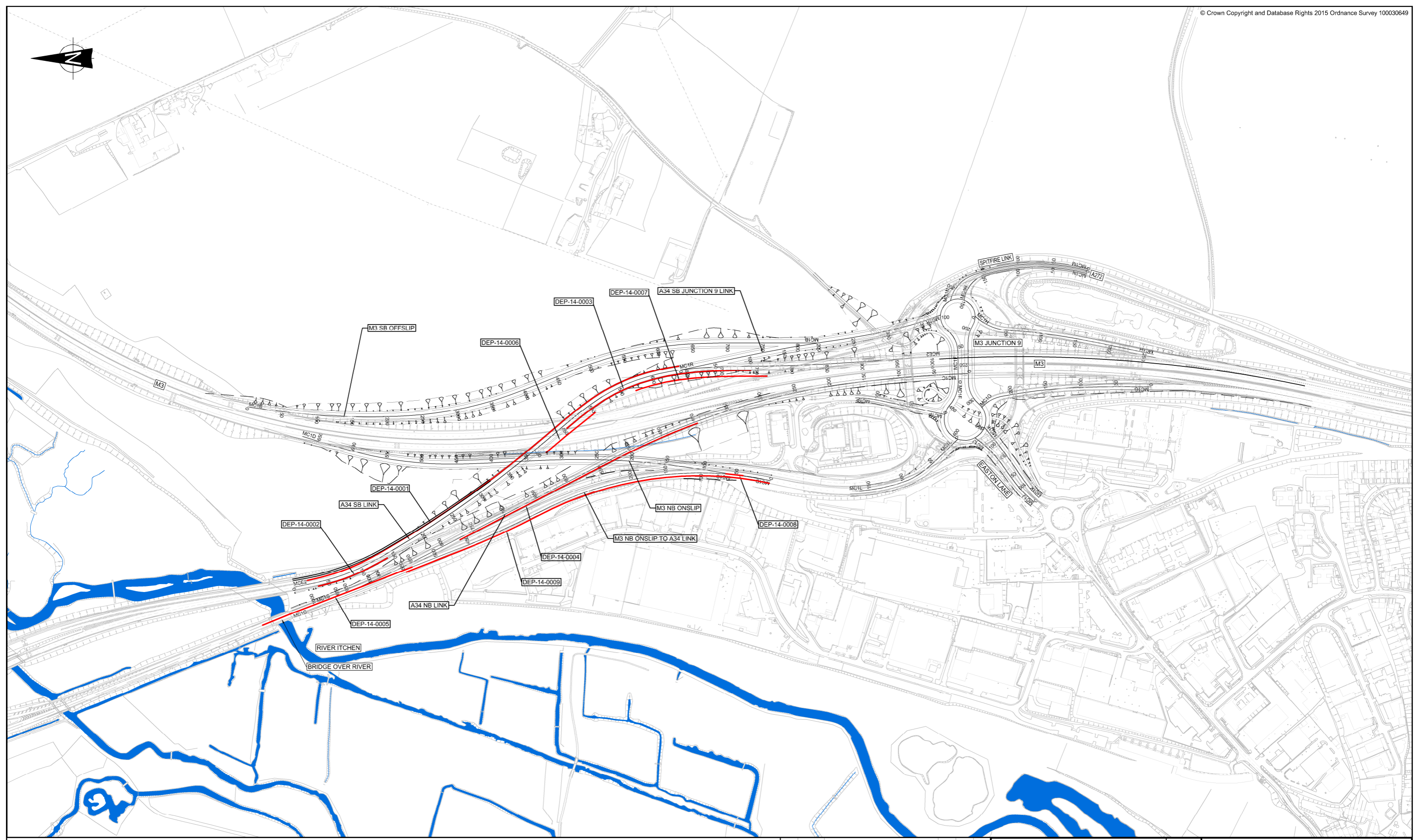
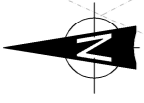
Last Update 16 November 2017

RAG		
Cost	Deadline Float	
>£1,000,000	<2 weeks	Red
£100,000-£1,000,000	2-6 weeks	Amber
<£100,000	>6 weeks	Green

Scheme	Reference	Das ID	Rev	Departure Type	Standard against which Departure applies	Cost Impact RAG	Qualitative Impact RAG	DAS Status	Expected date for Submission to WebDAS	Actual Date Submitted to WebDAS	Date PM Passed to NetServ	Departure Description	Comments	Potential cost Saving by implementation of departure	Basis of the cost savings, Cost RAG, Qualitative RAG, and Deadline date	Date Last Updated	Changes at last update	Return status	Date received from NetServ	ADP Cert Ref	ADP Cert Issue Date	ADP Approved Date	
Departures - Option 16C																							
M3 Junction 9 Improvements	DEP-16C-0001	-	-	Geometry	TD22/06 Para 4.36	R	R	To be submitted at PCF Stage 3	31/01/2018			TD22/06 Para 4.36 For Rural All-Purpose Roads the desirable minimum weaving length is 1km.	A34 SB Link (Design Speed 100Akph, Mandatory Speed Limit as existing 50mph): The weaving length between the A33 merge onto the A34 SB Link (chainage 20) and the A34 SB Junction 9 Link diverge (chainage 640) is 620m. This is below the desirable minimum (1km) and therefore a departure.	A34 SB Link (Design Speed 100Akph, Mandatory Speed Limit as existing 50mph): To achieve the standard weaving length the existing M3 J9 would require relocating further south and substantial land take into a flood plain and SDNP. This departure would save the cost of the additional land take, structures and earthworks.	Cost RAG: See potential cost saving.  Qualitative RAG: The current baseline scheme budget is £76M. It is anticipated that the construction cost of this option will be well in excess of this budget. This departure is required to make this option viable.  Deadline date: N/A	01/07/2016							
M3 Junction 9 Improvements	DEP-16C-0002	-	-	Geometry	TD9/93 Table 3	G	R	To be submitted at PCF Stage 3	31/01/2018			TD9/93 Table 3 Relaxations of 1 step and greater in horizontal curvature require a superelevation of 7%.	A34 SB Link (Design Speed 100Akph, Mandatory Speed Limit as existing 50mph): The 3 step relaxation in horizontal curvature in this location would require a superelevation of 7%, however it is deemed inappropriate to provide a superelevation of 7% in this location as vehicles are expected to be slowing as they are on the approach to the interchange junction.  A superelevation of 5% is deemed more appropriate and has been provided in preference to the 7% between Chainage 025 to 141. This is therefore a departure from the standard.	A34 SB Link (Design Speed 100Akph, Mandatory Speed Limit as existing 50mph): No cost saving associated with departure.	Cost RAG: See potential cost saving.  Qualitative RAG: This departure provides a more appropriate cross section. The current baseline scheme budget is £76M. It is anticipated that the construction cost of this option will be well in excess of this budget. This departure is required to make this option viable.  Deadline date: N/A	01/07/2016							
M3 Junction 9 Improvements	DEP-16C-0003	-	-	Geometry	TD9/93 Table 3	G	R	To be submitted at PCF Stage 3	31/01/2018			TD9/93 Table 3 Relaxations of 1 step and greater in horizontal curvature require a superelevation of 7%.	A34 SB Link (Design Speed 100Akph, Mandatory Speed Limit as existing 50mph): The 3 step relaxation in horizontal curvature in this location would require a superelevation of 7%, however it is deemed inappropriate to provide a superelevation of 7% in this location as vehicles are expected to be slowing as they are on the approach to the interchange junction.  A superelevation of 5% is deemed more appropriate and has been provided in preference to the 7% between chainage 446 to 746. This is therefore a departure from the standard.	(Design Speed 100Akph, Mandatory Speed Limit as existing 50mph): No cost saving associated with departure.	Cost RAG: See potential cost saving.  Qualitative RAG: This departure provides a more appropriate cross section. The current baseline scheme budget is £76M. It is anticipated that the construction cost of this option will be well in excess of this budget. This departure is required to make this option viable.  Deadline date: N/A	01/07/2016							
M3 Junction 9 Improvements	DEP-16C-0004	-	-	Geometry	TD9/93 Table 3 Para 1.26	R	R	To be submitted at PCF Stage 3	31/01/2018			TD9/93 Para 1.24 SSD relaxations of 1 step may be coincident with horizontal curvature relaxations of 1 step. All other combinations of relaxations are not permitted.  TD9/93 Para 1.26 Relaxations below Desirable Minimum in SSD are not permitted on the immediate approach to a junction.	A34 SB Link (Design Speed 100Akph, Mandatory Speed Limit as existing 50mph): As the proposed A34 SB Link passes under the M3 (chainage 410 to 500) the SSD is reduced as the abutments to the overbridge restrict visibility. SSD is reduced to a minimum of 160m. This is a 1 step relaxation in standard.  The Horizontal Curvature in this location is 255m. This is a 3 step relaxation in standard.  The relaxation in SSD is on the immediate approach to the A34 to Junction 9 roundabout diverges junction. Relaxations in SSD are not permitted on the immediate approach to junctions and this is therefore a departure.  Combinations in SSD and Horizontal Curvature greater than 1 step are not permitted and are therefore a departure.	A34 SB Link (Design Speed 100Akph, Mandatory Speed Limit as existing 50mph): To achieve desirable minimum SSD would require the bridge under the M3 to be 9m wider. This departure saves the cost of this additional bridge span.	Cost RAG: See potential cost saving.  Qualitative RAG: The current baseline scheme budget is £76M. It is anticipated that the construction cost of this option will be well in excess of this budget. This departure is required to make this option viable.  Deadline date: N/A	01/07/2016							
M3 Junction 9 Improvements	DEP-16C-0005	-	-	Geometry	TD9/93 Para 1.24 Para 1.26	R	R	To be submitted at PCF Stage 3	31/01/2018			TD9/93 Para 1.24 SSD relaxations of 1 step may be coincident with horizontal curvature relaxations of 1 step. All other combinations of relaxations are not permitted.  TD9/93 Para 1.26 Relaxations below Desirable Minimum in SSD are not permitted on the immediate approach to a junction.	A34 SB Link (Design Speed 100Akph, Mandatory Speed Limit as existing 50mph): As the proposed A34 SB Link ascends after passing under the M3 the crest curve is reduced to k = 55 (chainage 570 to 765). This is a 1 step relaxation in standard.  This relaxation is required to enable the scheme to tie into both the levels under the proposed under bridge and the existing M3.  The Horizontal Curvature in this location is 255m. This is a 3 step relaxation in standard.  The relaxation in vertical crest curvature is on the immediate approach to the A34 to Junction 9 roundabout diverge junction. Relaxations in vertical curvature are not permitted on the immediate approach to junctions and this is therefore a departure.  Combinations in Horizontal and Vertical curvature are not permitted and are therefore a departure.	A34 SB Link (Design Speed 100Akph, Mandatory Speed Limit as existing 50mph): To achieve the desirable minimum crest curve a longer length of curve would be required and this would prevent the proposed carriageway from tying in to the existing alignment on the M3 without moving the M3 underbridge further north and the impacts that would bring to the rest of the alignment.	Cost RAG: See potential cost saving.  Qualitative RAG: The current baseline scheme budget is £76M. It is anticipated that the construction cost of this option will be well in excess of this budget. This departure is required to make this option viable.  Deadline date: N/A	01/07/2016							

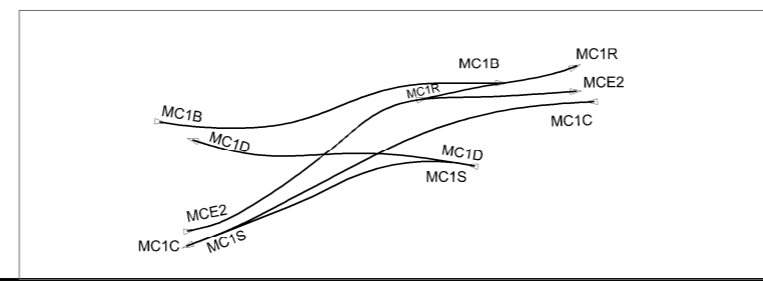
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— LOCATION OF DEPARTURES

CHAINAGE STRINGS



Rev.	Date	Description	By	Chk'd	App'd
P01	13/11/17	FIRST ISSUE	EL	DR	DB

Drawing Status: SUITABLE FOR STAGE APPROVAL

Suitability: S3

Project Title: REGIONAL INVESTMENT PROGRAMME  
M3 JUNCTION 9



4th Floor, 6 Devonshire Square, London, EC2M 4YE, UK  
T+ 44 (0) 207 337 1700, F+ 44 (0) 207 337 1701  
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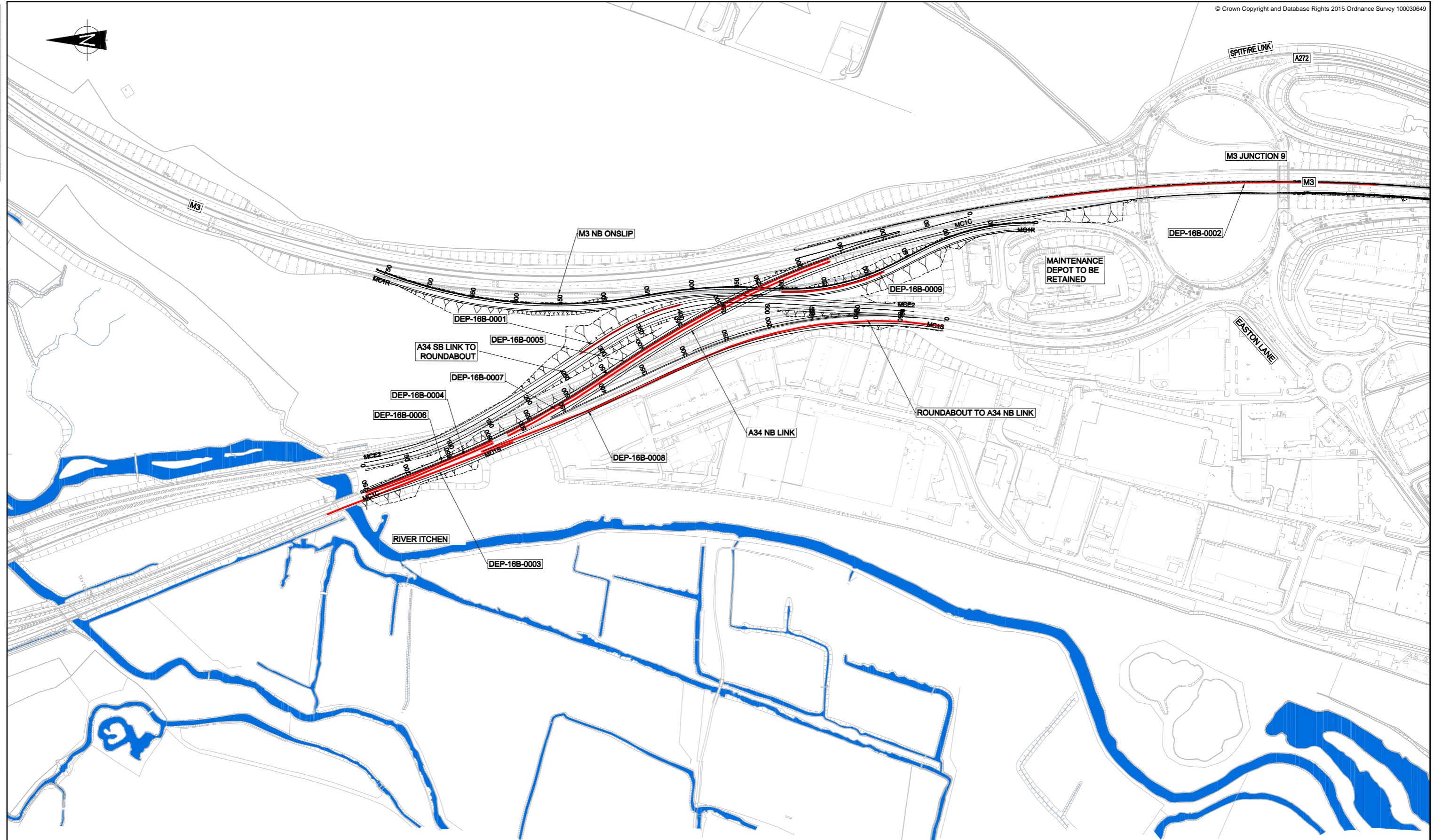
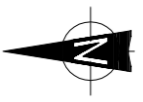
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DEPARTURES AND RELAXATIONS  
GENERAL ARRANGEMENT

Scale	Drawn	Checked	Approved	Authorised
AS SHOWN	E.Lovatt	Dileep.R	D.Brooks	---
Original Size	Date	Date	Date	Date
A1	13/11/17	13/11/17	13/11/17	---
Drawing Number	Project	Originator	Volume	Project Ref. No.
HE551511	M3J9PCF2	WSP	HAC	---
Location	Type	Role	Number	Revision
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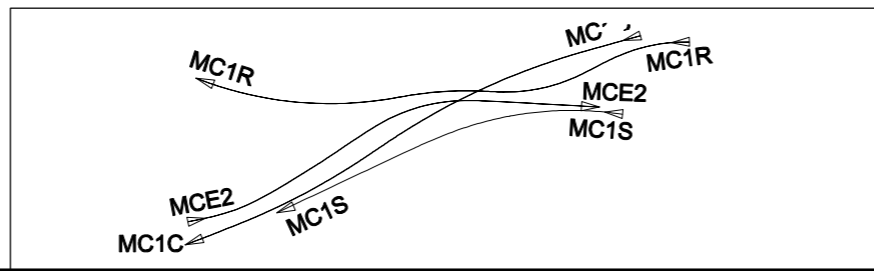
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CHAINAGE STRINGS



Rev.	Date	Description	By	Chk'd	App'd
P01	13/10/2017	FIRST ISSUE			

Drawing Status: **SUITABLE FOR STAGE APPROVAL**

Suitability: **S3**

**wsp**

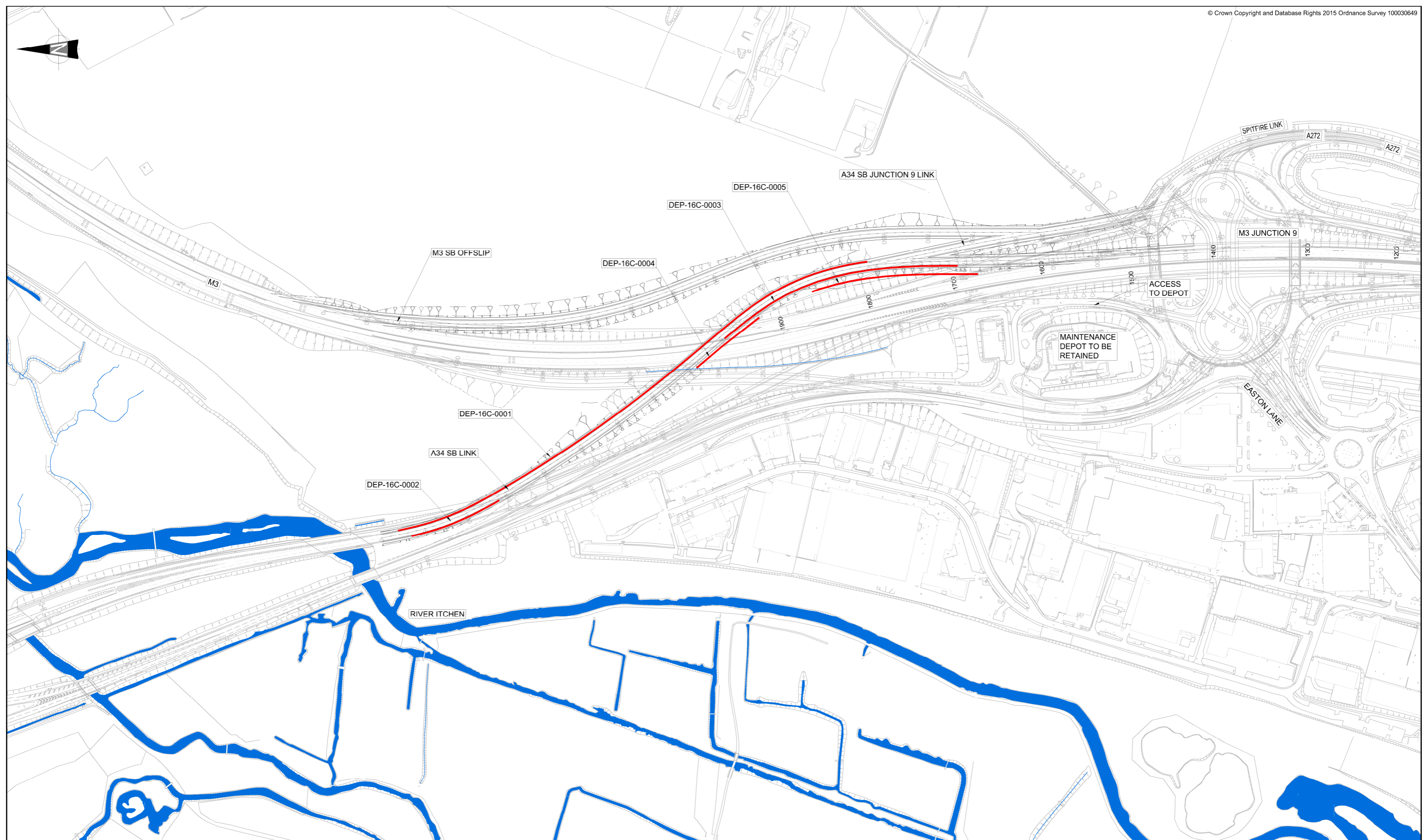
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T+ 44 (0) 207 337 1700, F+ 44 (0) 207 337 1701  
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Client: **Working on behalf of highways england**

Project Title: <b>REGIONAL INVESTMENT PROGRAMME M3 JUNCTION 9</b>				
Drawing Title: <b>OPTION 16B DEPARTURES AND RELAXATION GENERAL ARRANGEMENT</b>				
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Original Size: A1	Date: 13/11/2017	Date: 13/11/2017	Date: 13/11/2017	Date: ---
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Location: ---	Type: DR	Role: CH	Number: 10150	Revision: P01

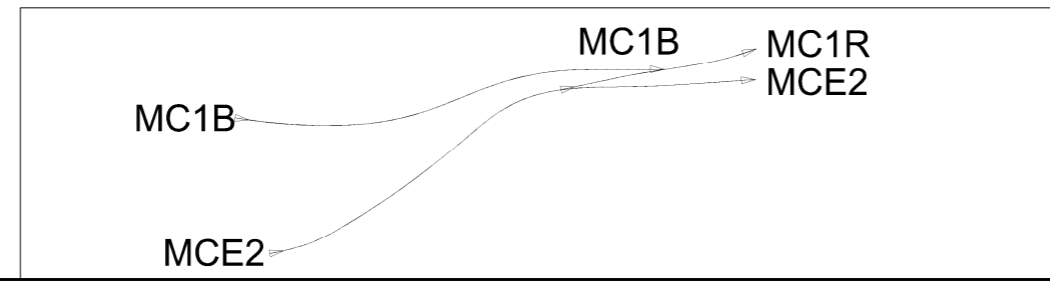
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Millimetres



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CHAINAGE STRINGS



Rev.	Date	Description	By	Chk'd	App'd
P01	13/10/2017	FIRST ISSUE	EL	DR	DB

Drawing Status: SUITABLE FOR STAGE APPROVAL

Suitability: S3

Project Title: REGIONAL INVESTMENT PROGRAMME M3 JUNCTION 9



4th Floor, 6 Devonshire Square, London, EC2M 4YE, UK  
T+ 44 (0) 207 337 1700, F+ 44 (0) 207 337 1701  
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Drawing Title: OPTION 16C DEPARTURES AND RELAXATIONS GENERAL ARRANGEMENT

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Original Size	Date	Date	Date	Date
A1	13/10/2017	13/10/2017	13/10/2017	---

Client: Working on behalf of

Drawing Number	Project	Originator	Volume	Project Ref. No.
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Location	Type	Role	Number	Revision
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