

HS2 FORM TM1

Highway Authority	Solihull Metropolitan Borough Council
Street(s)/USRN(s)	A452 Chester Road, B4438, Solihull Parkway, Northway Island
HS2 Consent Reference	THW.AN.HE.LMJV.0085
HS2 Ltd document reference (version)	1EW04-LMJ-HW-SCH-NS07-106001 Co2
Submission Date	30/10/2018
Proposed start date of works	27/11/2018
Consultation end date [mark as appropriate]	26/11/2018
Deemed consent date [mark as appropriate]	26/11/2018

Temporary Highway Interference

In accordance with the powers set out in the High-Speed Rail (London - West Midlands) Act 2017, the Nominated Undertaker hereby consults the highway authority and/or requests highway authority consent under Schedule 2, 4 and/or 33 as identified below:

Consultation with the highway authority:	
The temporary interference/works is on a street or location listed in Table 3 of Schedule 4 to the Act	<input type="checkbox"/>
Consent of the highway authority:	
The temporary interference/works is at a location, not listed in Table 3 of Schedule 4 of the Act	<input checked="" type="checkbox"/>
Trial holes (Schedule 2 only)	<input type="checkbox"/>
Protective provisions (Schedule 33) [mark as appropriate]	<input type="checkbox"/>
Works to a bridge requiring temporary interference, (Schedule 33 para 6)	<input type="checkbox"/>
Alteration/disturbance to apparatus of the highway authority affixed to or placed under any highway, or, access to the apparatus of the Highway Authority, (Schedule 33 Para 9)	<input type="checkbox"/>
Depositing soil or materials or storing plant on the highway (Schedule 33 Para 12)	<input type="checkbox"/>
Erection of scaffolding or screening (or hoarding) in the highway (Schedule 33 Para 12)	<input type="checkbox"/>


Table 1. Summary <i>(mark as appropriate)</i>	Alteration to apparatus of the highway authority	<input type="checkbox"/>	Deposit of material on the highway	<input type="checkbox"/>	Footway Works only	<input type="checkbox"/>	Peak hours	<input type="checkbox"/>	Give and Take	<input type="checkbox"/>	Lane Closure	<input checked="" type="checkbox"/>	Portable temporary traffic signals (delete as required) 2-way multiphase	<input checked="" type="checkbox"/>	Priority working	<input type="checkbox"/>
	Trial holes	<input checked="" type="checkbox"/>	Erection of scaffolding/hoarding	<input type="checkbox"/>	Works in the carriageway	<input checked="" type="checkbox"/>	Off Peak	<input type="checkbox"/>	Stop /Go	<input type="checkbox"/>	Road Closure	<input checked="" type="checkbox"/>	Works to existing or new signal installations	<input type="checkbox"/>	Associated utility works	<input type="checkbox"/>
	Temporary signs	<input checked="" type="checkbox"/>	Verge works	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>

Road name	Extent of Temporary Interference	USRN	Grid Ref	EToN reference	TM Phase	TM drawing reference	Description of works	Description of associated traffic management	TM operational hours	Proposed Start Date	Estimated End Date
A452 Chester Road	Northway Island to Coleshill Heath Road	35006662	SP 19687 85398 to SP 19009 86321	NA	Single Phase	9969.019	Trial holes	Traffic Lights	8pm to 6am	27/11/2018	29/11/2018
A446 Stonebridge Road	M6 j4 to Northway Island	99505891	SP 20008 86457 to SP 19887 85247 to	N/A	Single Phase	9969.020.1	Trial Holes	Lane closure	8pm to 6am	29/11/2018	04/12/2018
Solihull Parkway	From Roundabout within BBP to Northway Island	35002856	SP 19689 85192	N/A	Single Phase	9969.022	Trial Holes	Lane closure	8pm to 6am	04/12/2018	06/12/2018
Northway Island	Gyratory	35010156	SP 19674 85319	N/A	Single Phase	9969.022	Trial Holes	Lane closure	8pm to 6am	04/12/2018	12/12/2018
B4438 Bickenhill Parkway	From NEC Roundabout to Northway Island	35006577	SP 18962 84999 to SP 19697 85246	N/A	Single Phase	9969.023	Trial Holes	Lane closure	8pm to 6am	06/12/2018	08/12/2018
Northway Island	Gyratory	35010156	SP 19674 85319	N/A	Single Phase	9969.023	Trial Holes	Lane closure	8pm to 6am	06/12/2018	08/12/2018
B4438 Bickenhill Parkway	From NEC Roundabout to Northway Island	35006577	SP 18962 84999 to SP 19697 85246	N/A	Single Phase	9969.024	Trial Holes	Lane closure	8pm to 6am	10/12/2018	12/12/2018
Northway Island	Gyratory	35010156	SP 19674 85319	N/A	Single Phase	9969.024	Trial Holes	Lane closure	8pm to 6am	10/12/2018	12/12/2018
Solihull Parkway	From Roundabout within BBP to Northway Island	35002856	SP 19689 85192	N/A	Single Phase	9969.024	Trial Holes	Lane closure	8pm to 6am	10/12/2018	12/12/2018

A452 Chester Road	Northway Island to Coleshill Heath Road	35006662	SP 19687 85398 to SP 19009 86321	NA	Single Phase	9969.025	Trial holes	Lane Closure	8pm to 6am	12/12/2018	14/12/2018
Northway Island	Gyratory	35010156	SP 19674 85319	N/A	Single Phase	9969.025	Trial Holes	Lane closure	8pm to 6am	12/12/2018	14/12/2018
B4438 Bickenhill Parkway	From NEC Roundabout to Northway Island	35006577	SP 18962 84999 to SP 19697 85246	N/A	Single Phase	9969.028	Trial Holes	Lane closure	8pm to 6am	14/12/2018	18/12/2018
A452 Chester Road	Stonebridge Island to A452/A446 Split	995005897	SP 21333 83184 to SP 21333 83184	N/A	Single Phase	9969.029.1 9969.029.2	Trial Holes	Lane Closure	8pm to 6am	18/12/2018	20/12/2018
Middle Bickenhill Lane	Packington Lane to Olympia Motorcycle track	35004549	SP 20397 84245	N/A	Single Phase	9969.030.1	Trial Holes	Lane Closure	8pm to 6am	09/01/2019	11/01/2019
A452 Chester Road	Stonebridge Island to A452/A446 Split	995005897	SP 21333 83184 to SP 21333 83184	N/A	Single Phase	9969.030.1 9969.030.2	Trial Holes	Lane Closure	8pm to 6am	09/01/2019	11/01/2019
A452 Chester Road	Stonebridge Island to A452/A446 Split	995005897	SP 21333 83184 to SP 21333 83184	N/A	Single Phase	9969.032.1 9969.032.2	Trial Holes	Lane Closure	8pm to 6am	11/01/2019	12/01/2019
A446 Stonebridge Road	Biddles Loop to Northway Island	99505891	SP 19929 85366	N/A	Single Phase	9969.033.1 9969.033.2	Trial Holes	Signs	8pm to 6am	15/01/2019	16/01/2019
A452 Chester Road	Stonebridge Island to A452/A446 Split	995005897	SP 21333 83184 to SP 21333 83184	N/A	Single Phase	9969.034	Trial Holes	Lane Closure	8pm to 6am	16/01/2019	19/01/2019
A446 Stonebridge Road	Biddles Loop to Stonebridge Island	99505896	SP 20110 85826 to SP 21357 83194	N/A	Single Phase	9969.035	Trial Holes	Lane Closure	8pm to 6am	21/01/2019	24/01/2019
A452 Chester Road	Stonebridge Island to A452/A446 Split	995005897	SP 21333 83184 to SP 21333 83184	N/A	Single Phase	9969.034.1	Trial Holes	Lane Closure	8pm to 6am	24/01/2019	30/01/2019
Stonebridge Island	Gyratory	99508177	SP 21364 83121	N/A	Single Phase	9969.040	Trial Holes	Lane Closure	8pm to 6am	30/01/2019	02/02/2019

Details of pre-application discussions	
Date	Details
27/09/2018	Pre-application meeting with SMBC & HE.
Click here to enter a date.	
Details of associated consents/approvals	
<i>{provide details as necessary}</i>	

Document references and supporting information			
Title	Phase (from Table 1)	reference	Version
2 Way Temporary Traffic Lights	Single	9969.019	C
Northbound Lane 1 Closure	Single	9969.020.1	B
Northbound Lane 1 Closure	Single	9969.020.2	A
Partial Ring Management	Single	9969.022	D
Partial Ring Management	Single	9969.023	C
Northbound Lane 1 Closure	Single	9969.024	B
Southbound Lane 1 Closure	Single	9969.025	B
Southbound Lane Closure	Single	9969.028	D
Northbound Lane 1 Closure	Single	9969.029.1	B
Northbound Lane 1 Closure	Single	9969.029.2	A
Northbound Lane 1 Closure/Middle Bickenhill Lane	Single	9969.030.1	B
Northbound Lane 1 Closure	Single	9969.030.2	A
Northbound Lane 1 Closure	Single	9969.032.1	B
Northbound Lane 1 Closure	Single	9969.032.2	A
Southbound lane 1 Closure	Single	9969.033.1	B
Northbound Lane 1 Closure	Single	9969.034	C
Southbound lane 1 Closure	Single	9969.035	A
Northbound Lane 1 Closure	Single	9969.034.1	A
Southbound lane 1 Closure	Single	9969.040	B

Contractor Signature	
<p>This submission is made by the Contractor on behalf of the Nominated Undertaker HS2 Ltd authorises the contractor to submit the application for consultation or, as required, consent of the highway authority <i>The Contractor must obtain a Code 1 authorisation from the HS2 Area Traffic Manager before submitting this form.</i></p>	
Contractor	LM-JV Cornerblock, Two Cornwall Street, Birmingham, B3 2DL
Contractor Authorised Signatory	 Wayne Skells, Traffic Manager
Highway Authority Response Sheet	

HS2 Consent Reference:	
Street(s):	
Submission Date:	
Response Date:	

Local Highway Authority Response	
Highway Authority:	

Decision on the application by the highway authority, if consent is required:

Consent <input type="checkbox"/>	Consent granted for works within SMBC boundary. Please make sure traffic management is not erected until 20.00pm and is removed from the network at 6am daily
Consent with comments <input checked="" type="checkbox"/>	Also please be aware that works on Stonebridge Road are not within our boundary and are maintained by Highways England.
Consent withheld <input type="checkbox"/>	
Consultation <input type="checkbox"/>	<i>[Insert comments on consultation]</i>

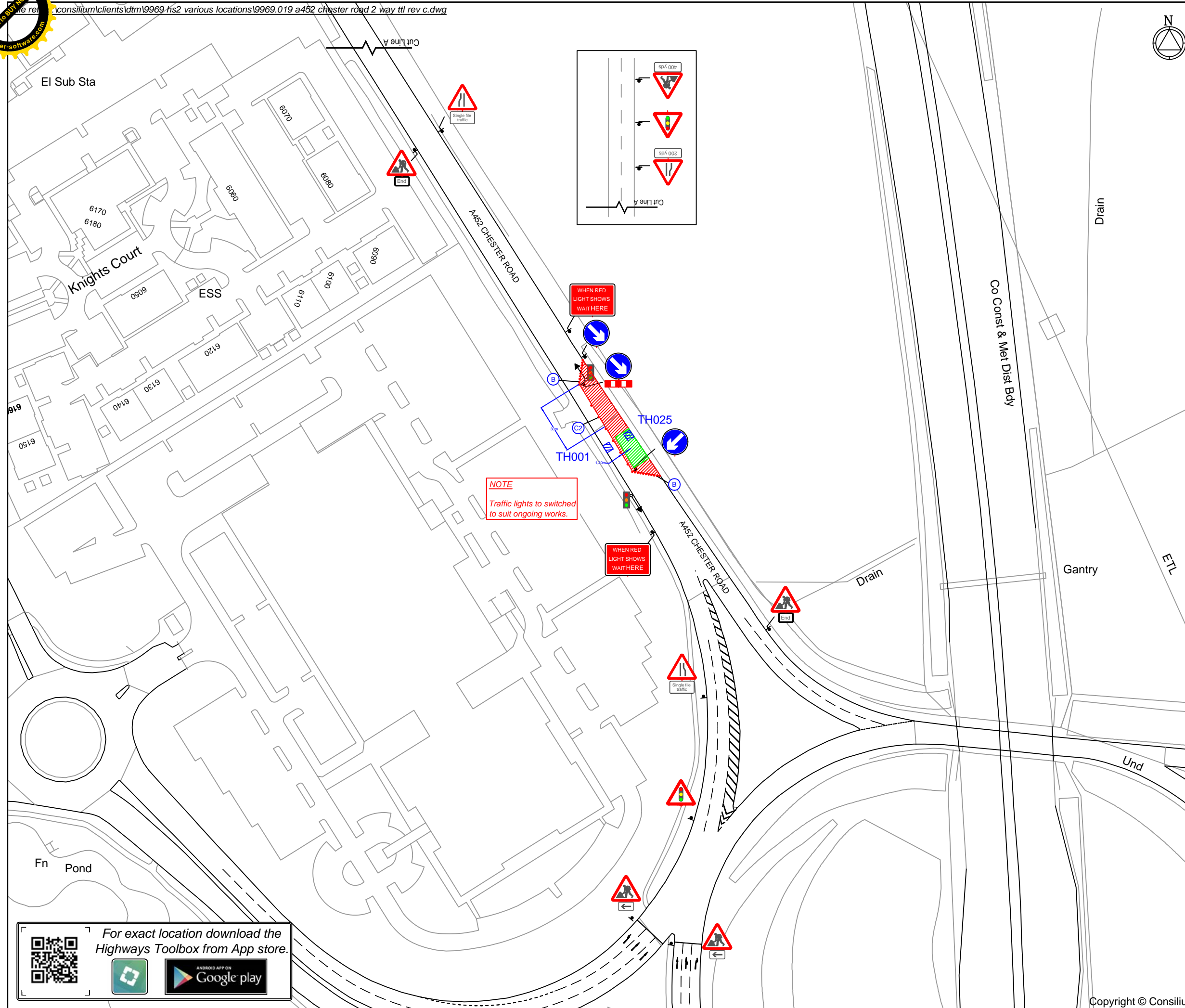
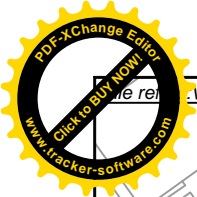
Signature: _____



Date: 20.11.18

Name of highway authority's authorised representative: _____

Lisa Pardy



NOTE
Traffic lights to be switched to suit ongoing works.

WHEN RED LIGHT SHOWS WAIT HERE

WHEN RED LIGHT SHOWS WAIT HERE

WORKS ACCESS **WORKS EXIT**

To be agreed on site

KEY

- Cone
- Sign
- ▲ Traffic light head
- ▨ Work area
- ▨ Safety zone
- ▨ Work space
- Safety zone to be used at work area

DETAILS

DETAIL C1
Single carriageway 400m or less - 400mm traffic cones, spacing 1.5m.
Single carriageway 400m or more - 750mm traffic cones, spacing 1.5m.
Dual carriageway national speed limit - 750mm traffic cones, spacing 1.5m, minimum 2m.

DETAIL C2
Single carriageway 400m or less - 400mm traffic cones, spacing 1.5m.
Single carriageway 400m or more - 750mm traffic cones, spacing 1.5m.

Notes:
1) During darkness, warning lights to BS EN 12353:2008 should be provided in accordance with Table A1.3 (Appendix 1).
2) 24/7 signs have 1.5m spacing, 600mm high.
3) On motorways and M25, AP signs with front striations, 1m cones will be required for both operational and suspension works for lead signs and the front end of lane changes.

NOTE
Minimum 3.25m running lane to be maintained at all times.
All sign positions to be risk assessed on site by LTMO/ foreman.

Rev	Description	By	Chkd	Date
C	Cyclists dismount signs removed.	AG	JW	27.09.18
B	Additional cyclist sign added and template notes removed.	AG	JW	03.09.18
A	Hatch area added, block board removed and dimensions added.	AG	JW	20.08.18

Client

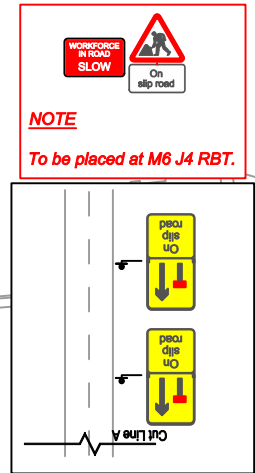
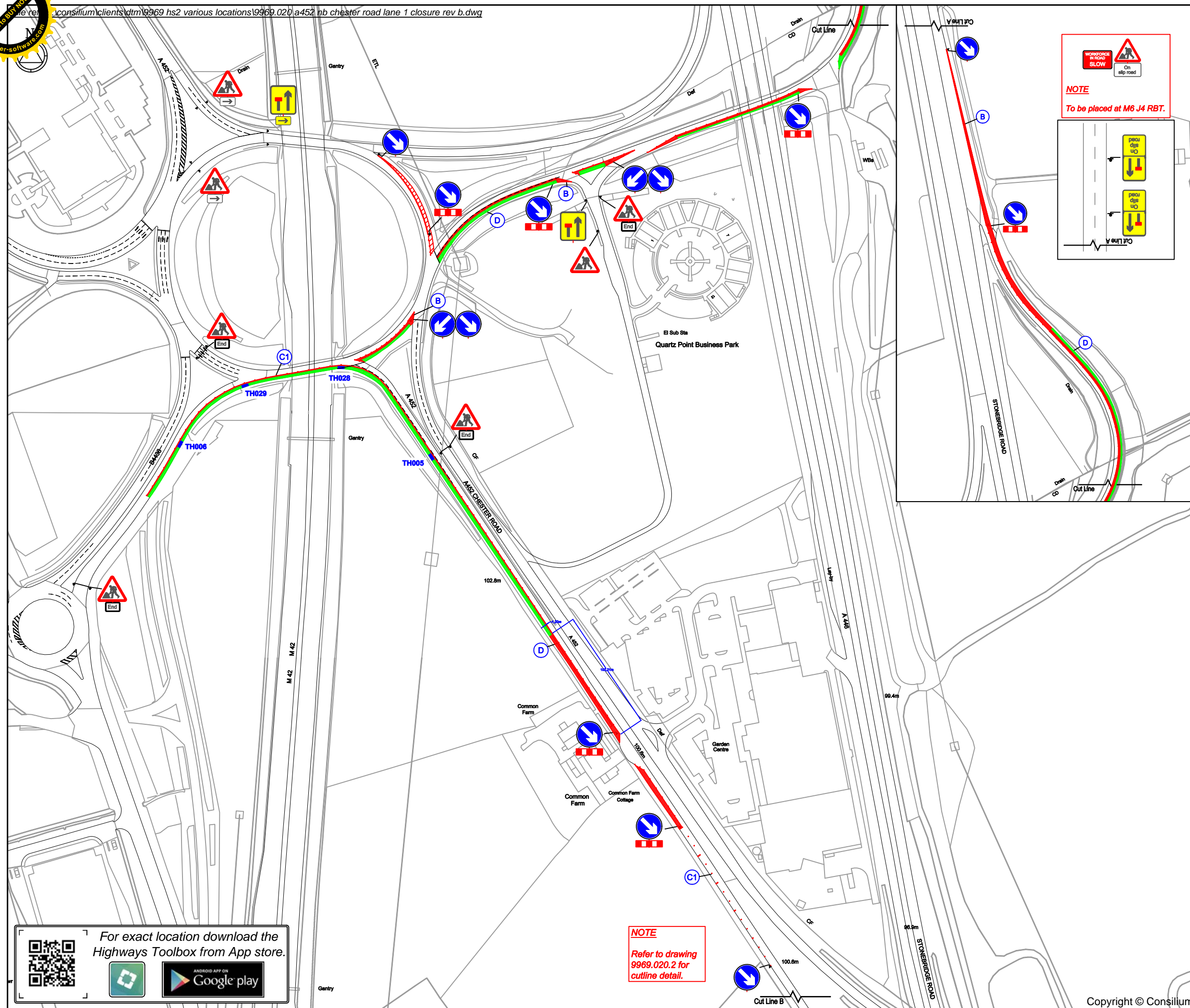
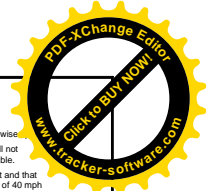
Project
A452 CHESTER ROAD
BIRMINGHAM
GRID REF: 419650 , 285534

Title
2 WAY TEMPORARY TRAFFIC LIGHTS
WORK PACK 5

409 Tyburn Road, Birmingham, B24 8HJ - 0121 328 7266
info@consilium-ts.co.uk - www.consilium-ts.co.uk

Design: AJ	Drawn: AJ	Chkd: KL
Date: 05/08/18	Date: 05/08/18	Date: 05/08/18
Scale: NTS @ A3	Status:	
Drawing No	9969.019	Rev: C

For exact location download the Highways Toolbox from App store.

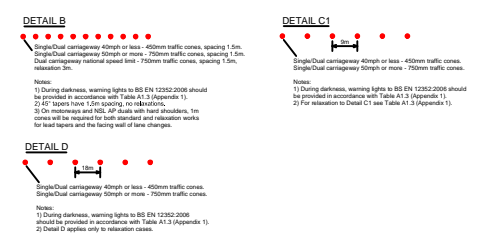


- NOTES**
- All traffic signs shall comply with Chapter 8 of the Traffic Signs Manual
 - All traffic management equipment shall be provided by the Contractor, unless otherwise stated.
 - All signs shall be positioned so as not to be obscured by any other objects and shall not obstruct any other sign, permanent or temporary as much as is reasonably practicable.
 - The minimum lateral clearance between any area in which work is being carried out and that part of the carriageway available to traffic shall be 0.5m for roads with a speed limit of 40 mph or less and 1.2m for motorways and roads with a speed limit of 50 mph or more.
 - All traffic signs shall meet the reflectorisation requirements of BS 673 : Part 6 : 1983, Table 1.
 - The permitted use of given types of closure shall be as specified.
 - Constraints on the use of given types of closure shall be as specified.
 - The lengths of tapers shown on the standard lane closure drawings are based on a basic lane width of 3.05m, rounded up to generally the nearest 5m. Where the actual lane width varies from the figure the following shall be used to calculate taper lengths:
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 Single carriageway road (speed limit 40 mph) - Rate of Taper 1 in 20
 Single carriageway road (speed limit 50 mph or more) - Rate of Taper 1 in 25
 Dual carriageway road without Hard Shoulder (speed limit 40 mph or less) - Rate of Taper 1 in 25
 Dual carriageway road without Hard Shoulder (speed limit 50 mph or more) - Rate of Taper 1 in 32
 Dual carriageway road with Hard Shoulder (any speed limit) - Rate of Taper 1 in 55
 Motorway (any speed limit) - Rate of Taper 1 in 55



KEY

- Cone
- Sign
- ▨ Work area
- ▨ Safety zone
- ▨ Work space
- ▨ Safety zone to be used at work area



NOTE

All sign positions to be risk assessed on site by LTMO/ foreman.

B	Taper added.	AG	JW	21.08.18
A	Hatched area added and dimensions added.	AG	JW	20.08.18

Rev	Description	By	Chkd	Date
Revisions				

Client

Project
**A452 CHESTER ROAD
 BIRMINGHAM
 GRID REF: 419839 , 285237**

Title
**NORTHBOUND
 LANE 1 CLOSURE
 WORK PACK 5**

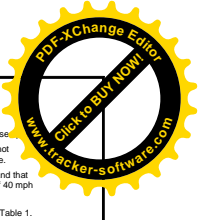
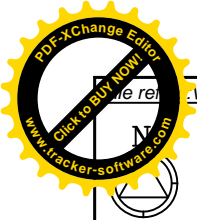
409 Tyburn Road, Birmingham, B24 8HJ - 0121 328 7266
 info@consilium-ts.co.uk - www.consilium-ts.co.uk

Design: AJ	Drawn: AJ	Chkd: KL
Date: 05/08/18	Date: 05/08/18	Date: 05/08/18
Scale: NTS @ A3	Status:	
Drawing No 9969.020.1	Rev: B	

For exact location download the Highways Toolbox from App store.

NOTE

Refer to drawing 9969.020.2 for cutline detail.



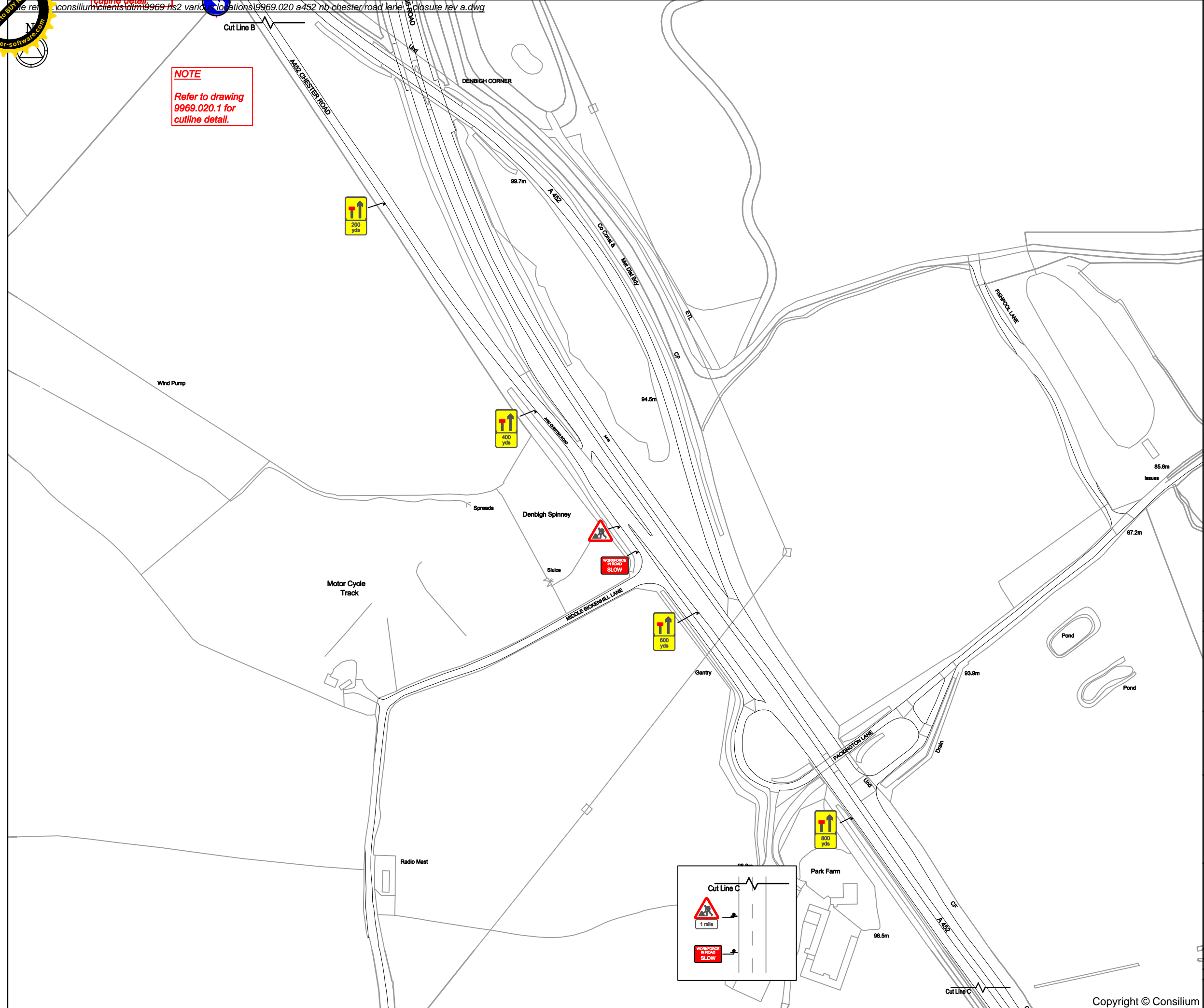
NOTE
Refer to drawing
9969.020.1 for
outline detail.

- NOTES**
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 - All traffic signs shall meet the reflectorisation requirements of BS 873 : Part 6 : 1983, Table 1.
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 - Constraints on the use of given types of closure shall be as specified.
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 Single carriageway road (speed limit 30 mph or less) - Rate of Taper 1 in 13
 Single carriageway road (speed limit 40 mph) - Rate of Taper 1 in 20
 Single carriageway road (speed limit 50 mph or more) - Rate of Taper 1 in 25
 Dual carriageway road without Hard Shoulder (speed limit 40 mph or less) - Rate of Taper 1 in 25
 Dual carriageway road without Hard Shoulder (speed limit 50 mph or more) - Rate of Taper 1 in 32
 Dual carriageway road with Hard Shoulder (any speed limit) - Rate of Taper 1 in 55
 Motorway (any speed limit) - Rate of Taper 1 in 55

KEY



NOTE
All sign positions to be risk assessed on site by LTMO/ foreman.



Rev	Description	By	Chkd	Date
A	Advance legend changed.	AG	JW	20.08.18

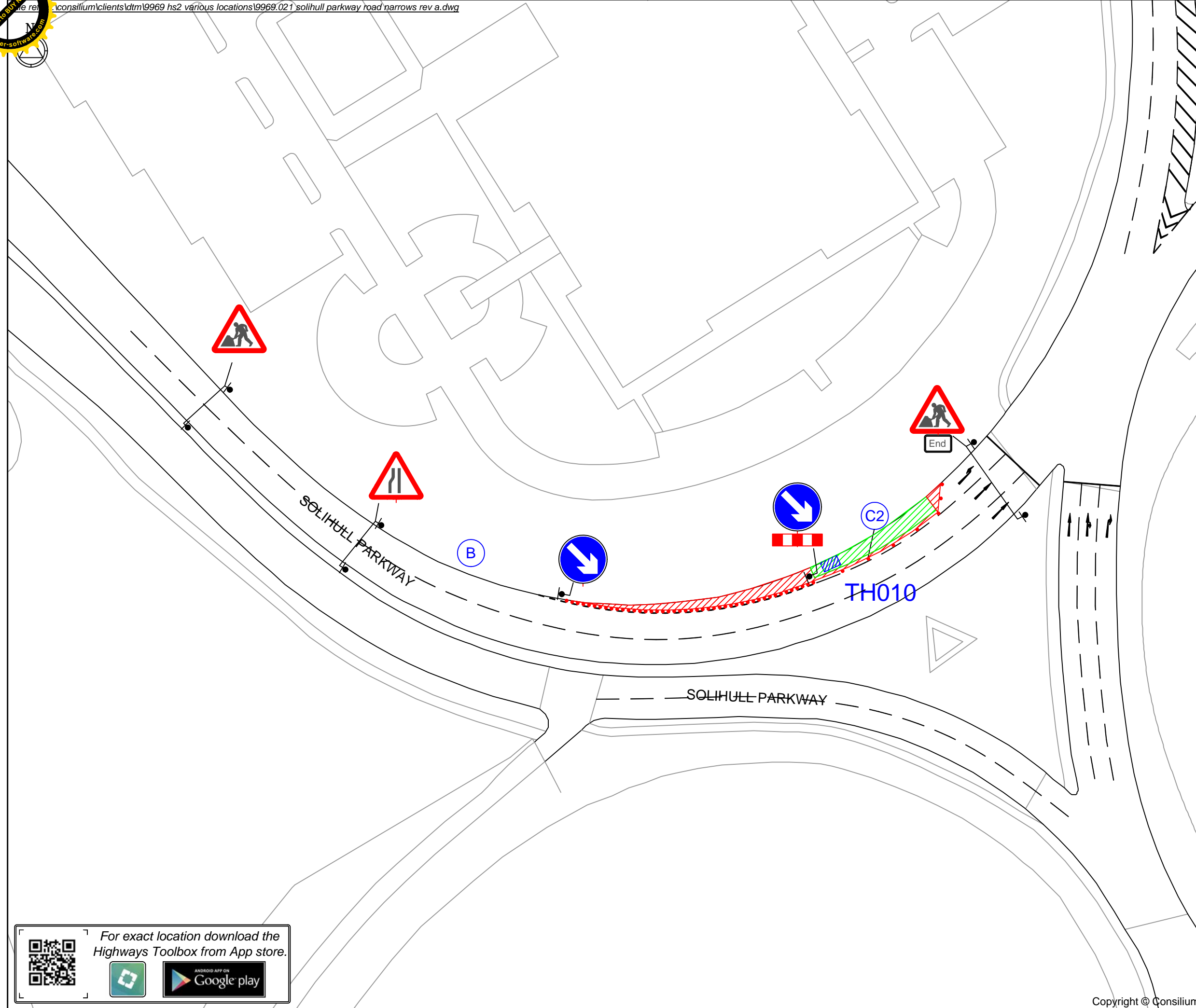
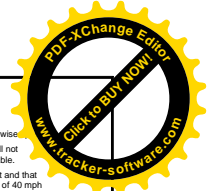
Client

Project
**A452 CHESTER ROAD
 BIRMINGHAM
 GRID REF: 419839 , 285237**

Title
**NORTHBOUND
 LANE 1 CLOSURE
 WORK PACK 5**

409 Tyburn Road, Birmingham, B24 8HJ - 0121 328 7266
 info@consilium-ts.co.uk - www.consilium-ts.co.uk

Design: AJ	Drawn: AJ	Chkd: KL
Date: 05/08/18	Date: 05/08/18	Date: 05/08/18
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Drawing No	9969.020.2	Rev: A



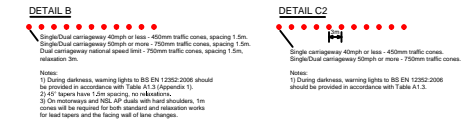
- NOTES
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 Single carriageway road (speed limit 40 mph) - Rate of Taper 1 in 20
 Single carriageway road (speed limit 50 mph or more) - Rate of Taper 1 in 25
 Dual carriageway road without Hard Shoulder (speed limit 40 mph or less) - Rate of Taper 1 in 25
 Dual carriageway road without Hard Shoulder (speed limit 50 mph or more) - Rate of Taper 1 in 32
 Dual carriageway road with Hard Shoulder (any speed limit) - Rate of Taper 1 in 55
 Motorway (any speed limit) - Rate of Taper 1 in 55



To be agreed on site

KEY

- Cone
- Sign
- Work area
- Safety zone
- Work space
- Safety zone to be used at work area



NOTE

All sign positions to be risk assessed on site by LTMO/ foreman.

Rev	Description	By	Chkd	Date
A	Lane lines and Hatched areas added.	AG	JW	20.08.18

Client

Project
 SOLIHULL PARKWAY
 BIRMINGHAM
 GRID REF: 419605 , 285333

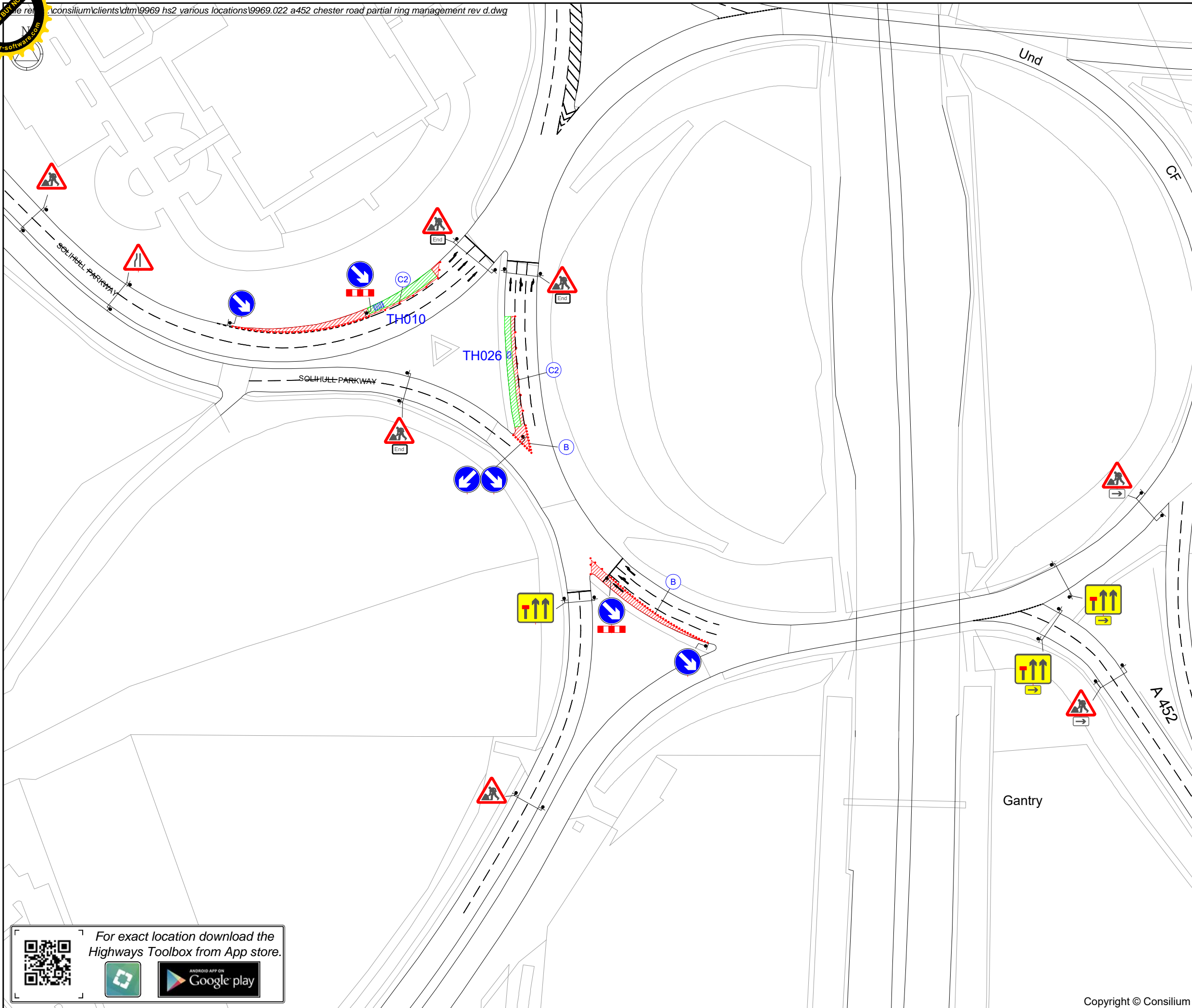
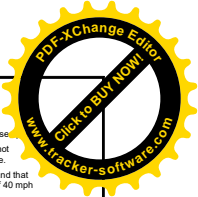
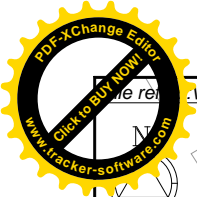
Title
 ROAD NARROWS

WORK PACK 5

409 Tyburn Road, Birmingham, B24 8HJ - 0121 328 7266
 info@consilium-ts.co.uk - www.consilium-ts.co.uk

Design: AJ	Drawn: AJ	Chkd: KL
Date: 05/08/18	Date: 05/08/18	Date: 05/08/18
Scale: NTS @ A3	Status:	
Drawing No	9969.021	Rev: A

For exact location download the Highways Toolbox from App store.



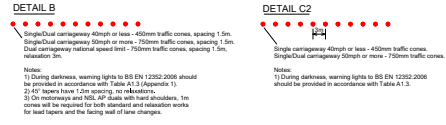
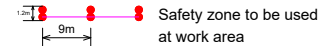
- NOTES**
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 - All traffic signs shall meet the reflectorisation requirements of BS 673 : Part 6 : 1983, Table 1.
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 - Constraints on the use of given types of closure shall be as specified.
 - The lengths of tapers shown on the standard lane closure drawings are based on a basic lane width of 3.05m, rounded up to generally the nearest 5m. Where the actual lane width varies from the figure the following shall be used to calculate taper lengths:
 Single carriageway road (speed limit 30 mph or less) - Rate of Taper 1 in 13
 Single carriageway road (speed limit 40 mph) - Rate of Taper 1 in 20
 Single carriageway road (speed limit 50 mph or more) - Rate of Taper 1 in 25
 Dual carriageway road without Hard Shoulder (speed limit 40 mph or less) - Rate of Taper 1 in 25
 Dual carriageway road without Hard Shoulder (speed limit 50 mph or more) - Rate of Taper 1 in 32
 Dual carriageway road with Hard Shoulder (any speed limit) - Rate of Taper 1 in 55
 Motorway (any speed limit) - Rate of Taper 1 in 55



To be agreed on site

KEY

- Cone
- Sign
- Work area
- Safety zone
- Work space



NOTE

All sign positions to be risk assessed on site by LTMO/ foreman.

D	Trial hole 10 added.	AG	JW	03.09.18
C	DWG 021 combined with this DWG.	AG	JW	28.08.18
B	Taper added.	AG	JW	21.08.18
A	Lane lines and hatched areas added.	AG	JW	20.08.18
Rev	Description	By	Chkd	Date

Client

Project
**A452 CHESTER ROAD
 BIRMINGHAM
 GRID REF: 419677 , 285325**

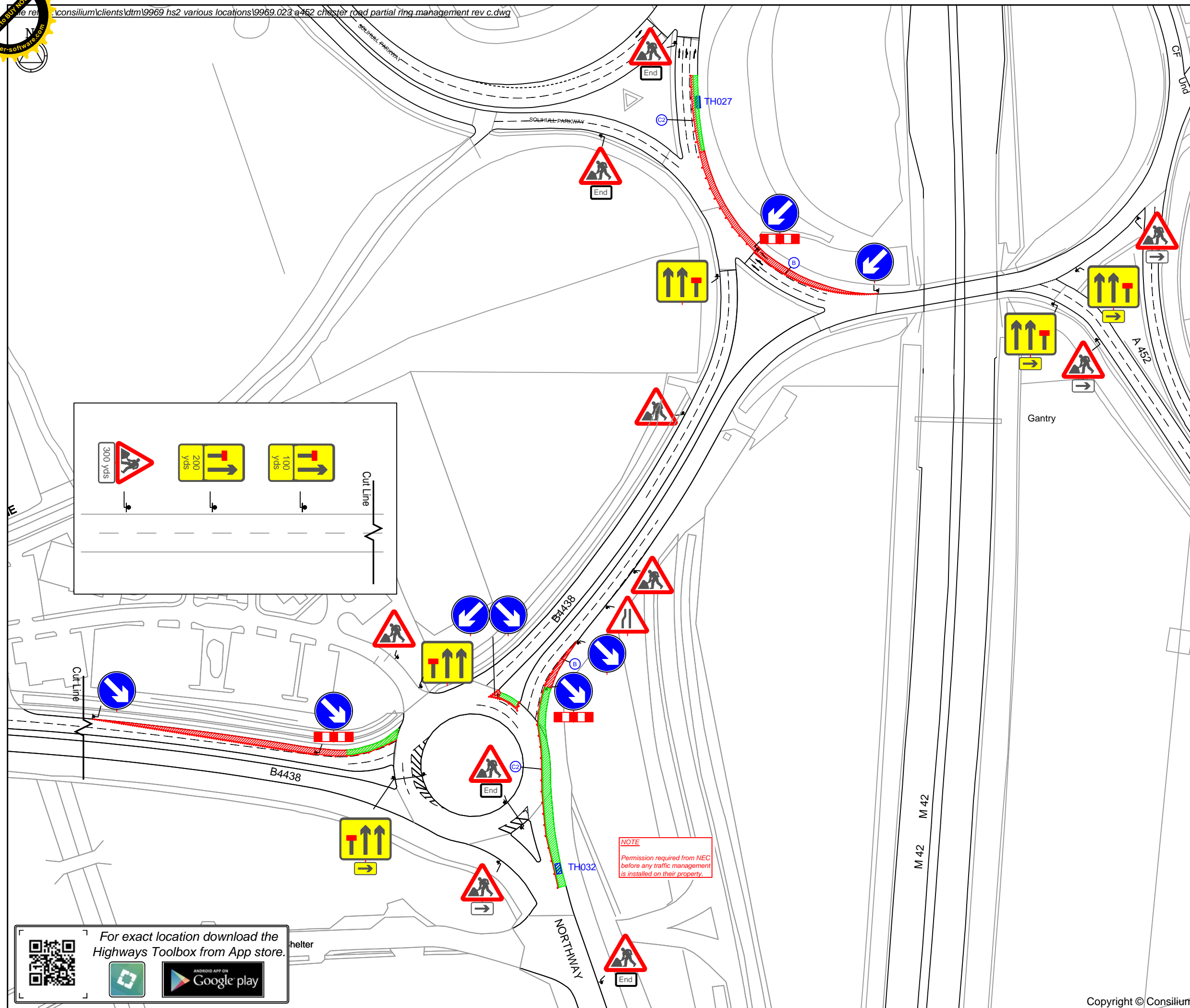
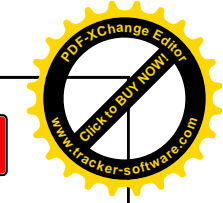
Title
PARTIAL RING MANAGEMENT

WORK PACK 5

409 Tyburn Road, Birmingham, B24 8HJ - 0121 328 7266
 info@consilium-ts.co.uk - www.consilium-ts.co.uk

Design: AJ	Drawn: AJ	Chkd: KL
Date: 05/08/18	Date: 05/08/18	Date: 05/08/18
Scale: NTS @ A3	Status:	
Drawing No	9969.022	Rev: D

For exact location download the Highways Toolbox from App store.



WORKS ACCESS ONLY 100 yds

WORKS ACCESS

WORKS EXIT

To be agreed on site

KEY

- Cone
- Sign
- Work area
- Safety zone
- Work space
- Safety zone to be used at work area (9m)

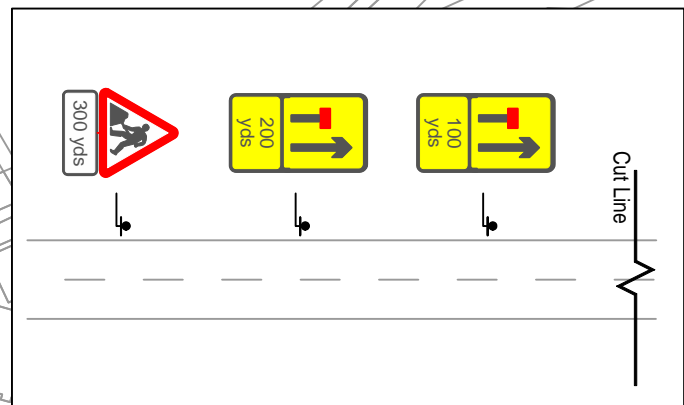
DETAIL B
Single Dual carriageway 40mph or less - 400mm traffic cones, spacing 1.5m.
Single Dual carriageway 50mph or more - 750mm traffic cones, spacing 1.5m.
Dual carriageway National speed limit - 750mm traffic cones, spacing 1.5m.

DETAIL C2
Single carriageway 40mph or less - 400mm traffic cones.
Single Dual carriageway 50mph or more - 750mm traffic cones.

Notes:
1) During darkness, warning lights to BS EN 12952:2006 should be provided in accordance with Table A1.3.
2) 45° tapered flares 1.5m spacing, no offset.
3) On motorways and A16, 60° flares with hand direction. No cones will be required for both standard and relaxation works for both lanes and the facing end of lane changes.

NOTE

All sign positions to be risk assessed on site by LTMO/ foreman.



Rev	Description	By	Chkd	Date
C	TH 32 added to drawing with closure.	AG	JW	03/09/18
B	Taper position changed and note removed.	AG	JW	03/09/18
A	Lane lines and hatching added.	AG	JW	21/08/18

Client

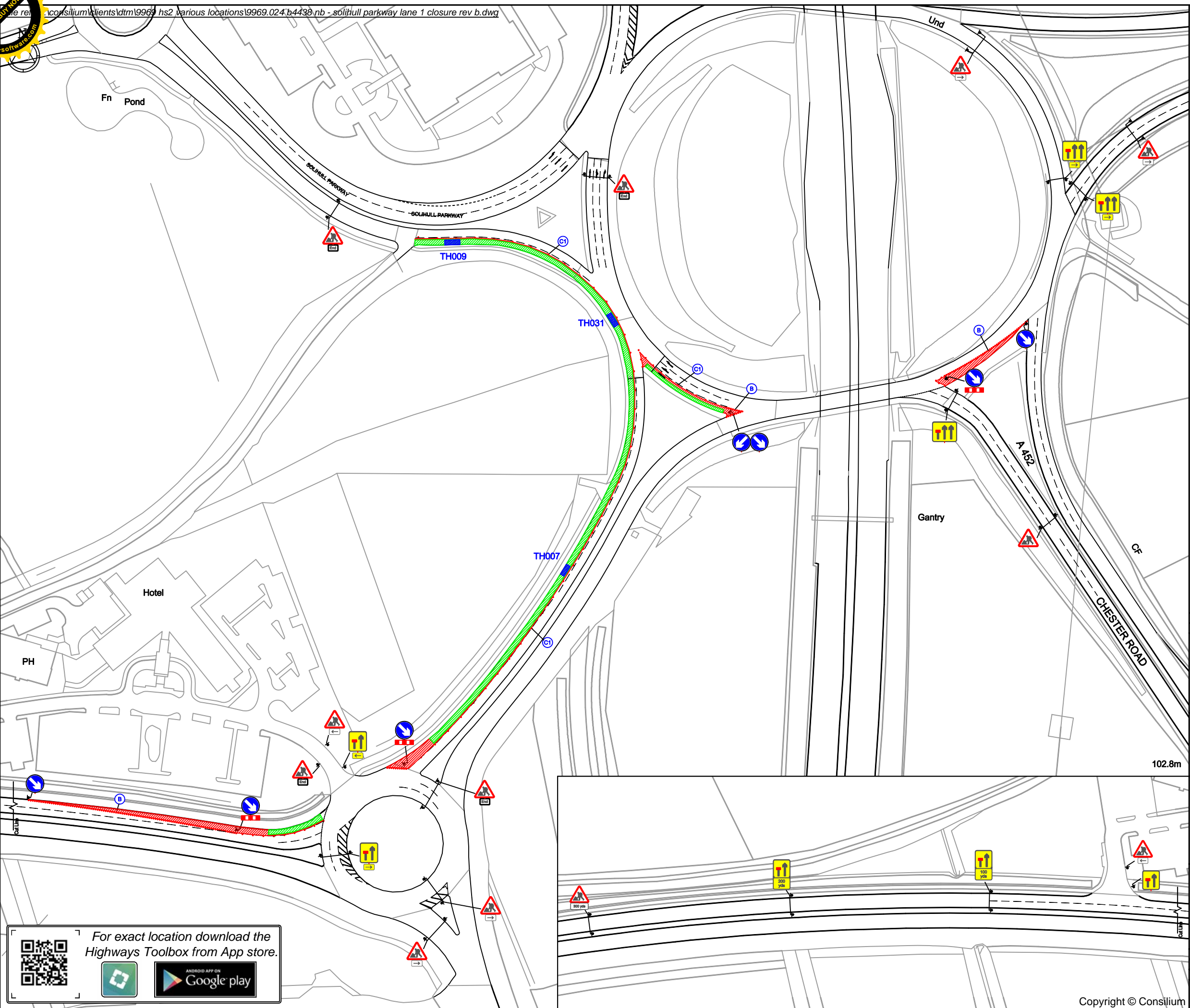
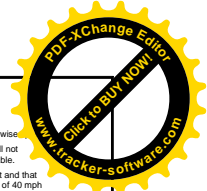
Project
A452 CHESTER ROAD
BIRMINGHAM
GRID REF: 419677 , 285325

Title
PARTIAL RING MANAGEMENT
WORK PACK 5

409 Tyburn Road, Birmingham, B24 8HJ - 0121 328 7266
info@consilium-ts.co.uk - www.consilium-ts.co.uk

Design: AJ	Drawn: AJ	Chkd: KL
Date: 05/08/18	Date: 05/08/18	Date: 05/08/18
Scale: NTS @ A3	Status:	
Drawing No	9969.023	Rev: C

For exact location download the Highways Toolbox from App store.



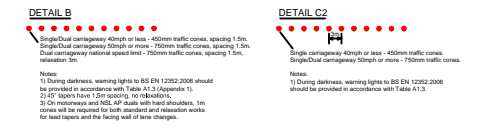
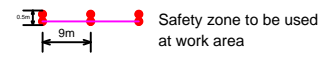
- NOTES**
- All traffic signs shall comply with Chapter 8 of the Traffic Signs Manual
 - All traffic management equipment shall be provided by the Contractor, unless otherwise stated.
 - All signs shall be positioned so as not to be obscured by any other objects and shall not obstruct any other sign, permanent or temporary as much as is reasonably practicable.
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 Single carriageway road (speed limit 40 mph) - Rate of Taper 1 in 20
 Single carriageway road (speed limit 50 mph or more) - Rate of Taper 1 in 25
 Dual carriageway road without Hard Shoulder (speed limit 40 mph or less) - Rate of Taper 1 in 25
 Dual carriageway road without Hard Shoulder (speed limit 50 mph or more) - Rate of Taper 1 in 32
 Dual carriageway road with Hard Shoulder (any speed limit) - Rate of Taper 1 in 55
 Motorway (any speed limit) - Rate of Taper 1 in 55



To be agreed on site

KEY

- Cone
- Sign
- ▨ Work area
- ▨ Safety zone
- ▨ Work space



NOTE
All sign positions to be risk assessed on site by LTMO/ foreman.

B	Taper added.	AG	JW	21.08.18
A	Road markings and hatching added.	AG	JW	20.08.18
Rev	Description	By	Chkd	Date

Client

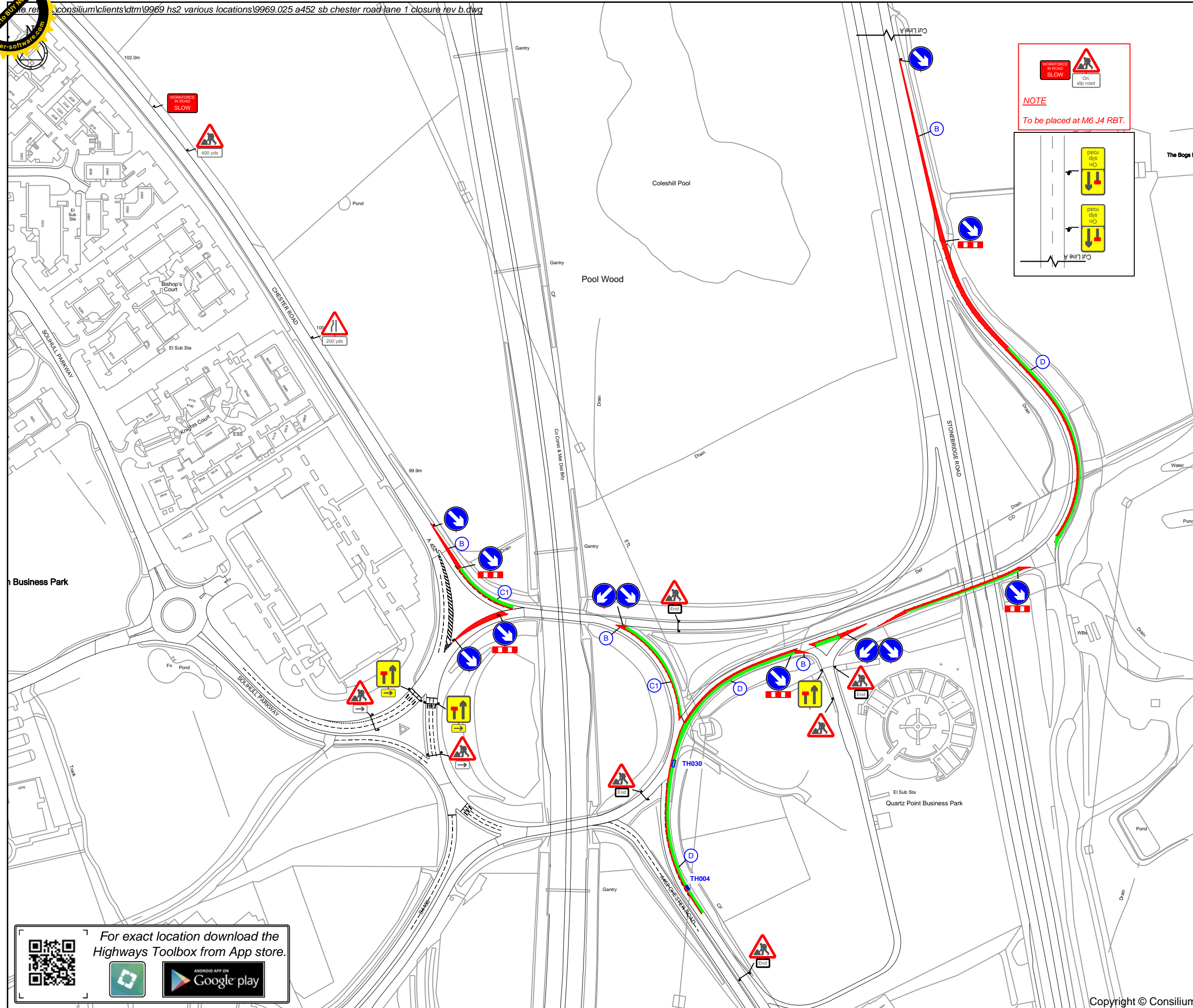
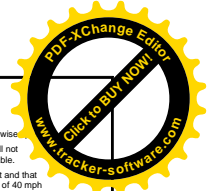
Project
B4438 / SOLIHULL PARKWAY BIRMINGHAM
 GRID REF: 419681 , 285278

Title
NORTHBOUND LANE 1 CLOSURE
 WORK PACK 5

409 Tyburn Road, Birmingham, B24 8HJ - 0121 328 7266
 info@consilium-ts.co.uk - www.consilium-ts.co.uk

Design: AJ	Drawn: AJ	Chkd: KL
Date: 05/08/18	Date: 05/08/18	Date: 05/08/18
Scale: NTS @ A3	Status:	
Drawing No 9969.024	Rev: B	

For exact location download the Highways Toolbox from App store.



- NOTES**
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 Dual carriageway road without Hard Shoulder (speed limit 50 mph or more) - Rate of Taper 1 in 32
 Dual carriageway road with Hard Shoulder (any speed limit) - Rate of Taper 1 in 55
 Motorway (any speed limit) - Rate of Taper 1 in 55

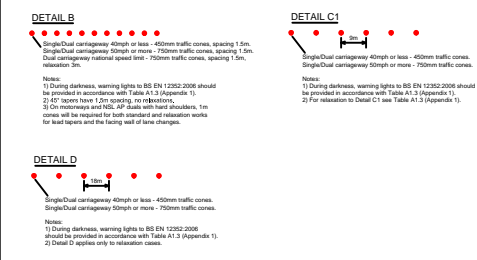
NOTE
To be placed at M6 J4 RBT.

WORKS ACCESS ONLY 100 yds
WORKS ACCESS
WORKS EXIT

To be agreed on site

KEY

- Cone
- Sign
- Work area
- Safety zone
- Safety zone to be used at work area



NOTE
All sign positions to be risk assessed on site by LTMO/ foreman.

B	Taper added.	AG	JW	21.08.18
A	Lane lines and hatching added.	AG	JW	21.08.18
Rev	Description	By	Chkd	Date

Client

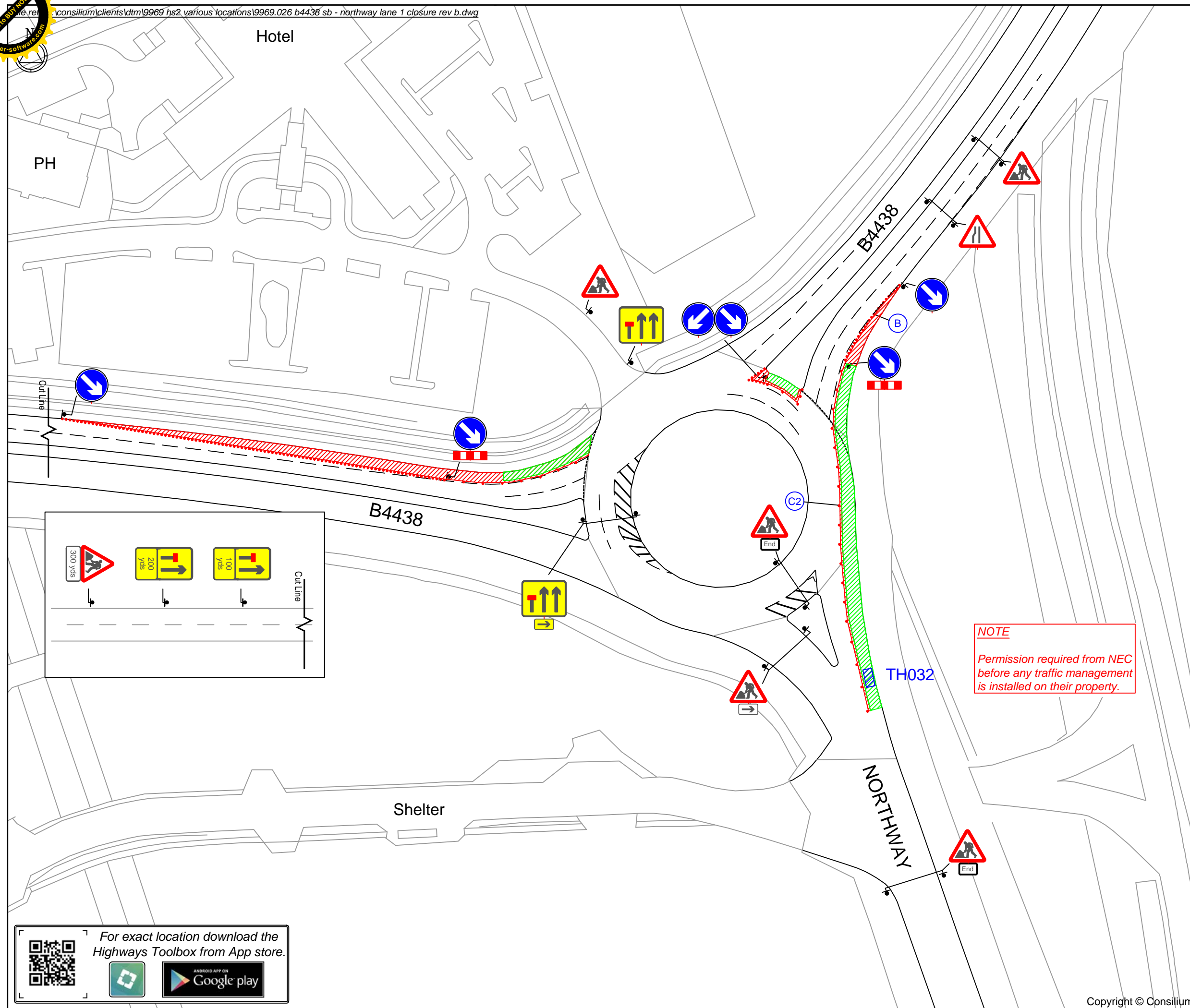
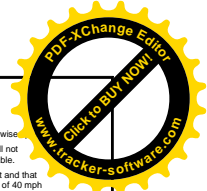
Project
A452 CHESTER ROAD
BIRMINGHAM
GRID REF: 419888 , 285282

Title
SOUTHBOWN
LANE 1 CLOSURE
WORK PACK 5

409 Tyburn Road, Birmingham, B24 8HJ - 0121 328 7266
info@consilium-ts.co.uk - www.consilium-ts.co.uk

Design: AJ	Drawn: AJ	Chkd: KL
Date: 05/08/18	Date: 05/08/18	Date: 05/08/18
Scale: NTS	@ A3	Status:
Drawing No	9969.025	Rev: B

For exact location download the Highways Toolbox from App store.

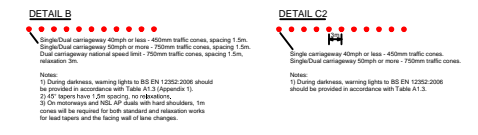


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 Dual carriageway road without Hard Shoulder (speed limit 50 mph or more) - Rate of Taper 1 in 32
 Dual carriageway road with Hard Shoulder (any speed limit) - Rate of Taper 1 in 55
 Motorway (any speed limit) - Rate of Taper 1 in 55

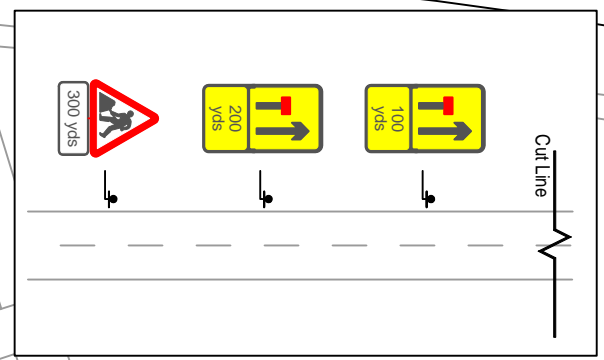


KEY

- Cone
- Sign
- Work area
- Safety zone
- Work space
- Safety zone to be used at work area



NOTE
All sign positions to be risk assessed on site by LTMO/ foreman.



NOTE
Permission required from NEC before any traffic management is installed on their property.

B	Taper added.	AG	JW	20.08.18
A	Lane lines and hatching added.	AG	JW	20.08.18
Rev	Description	By	Chkd	Date

Client

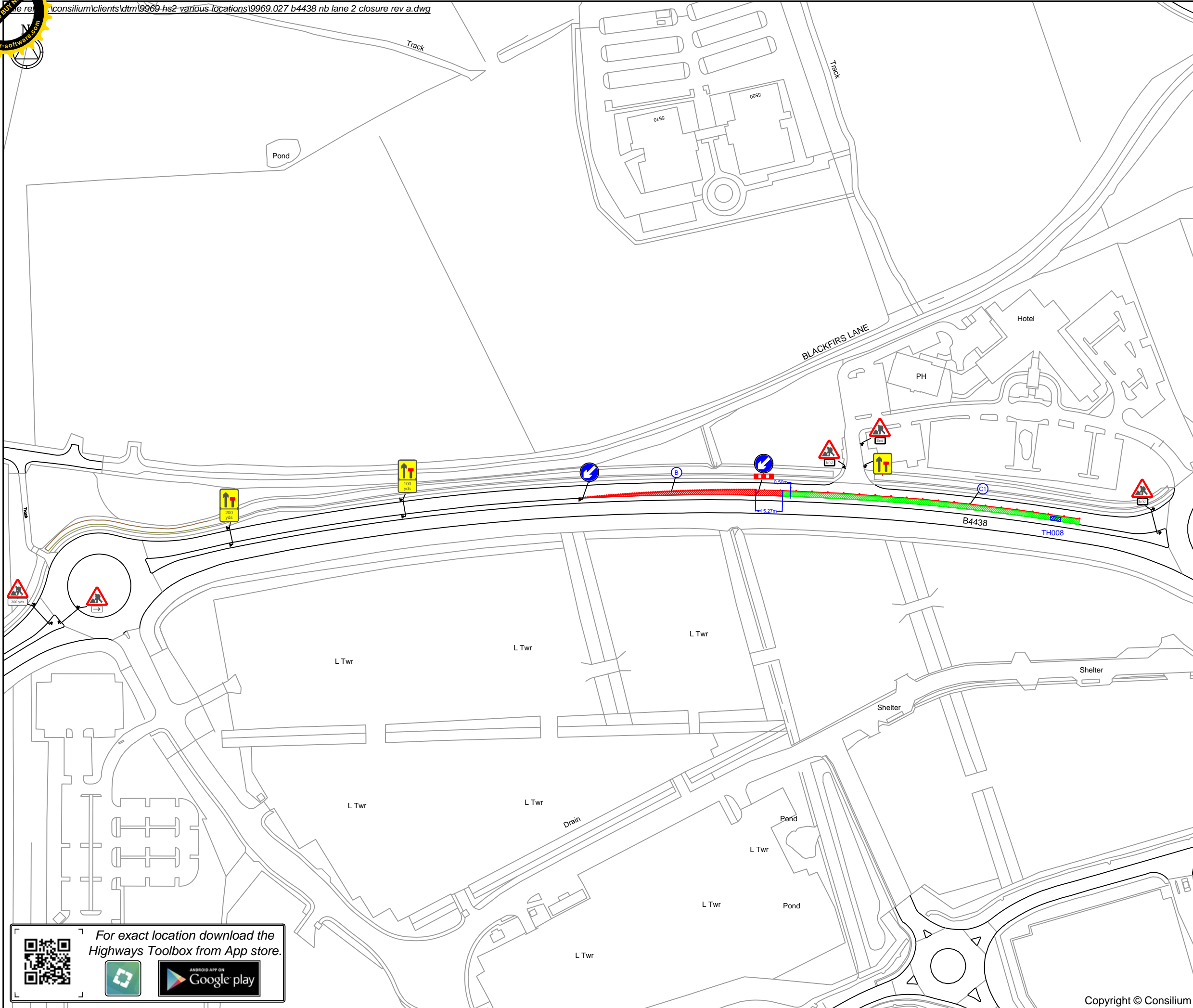
Project
B4438 / NORTHWAY
BIRMINGHAM
GRID REF: 419619 , 284988

Title
SOUTHBOUND
LANE 1 CLOSURE
WORK PACK 5

409 Tyburn Road, Birmingham, B24 8HJ - 0121 328 7266
info@consilium-ts.co.uk - www.consilium-ts.co.uk

Design: AJ	Drawn: AJ	Chkd: KL
Date: 05/08/18	Date: 05/08/18	Date: 05/08/18
Scale: NTS @ A3	Status:	
Drawing No 9969.026	Rev: B	

For exact location download the Highways Toolbox from App store.



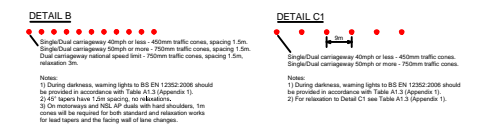
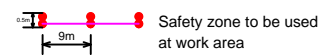
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 Dual carriageway road with Hard Shoulder (any speed limit) - Rate of Taper 1 in 55
 Motorway (any speed limit) - Rate of Taper 1 in 55



To be agreed on site

KEY

- Cone
- Sign
- Work area
- Safety zone
- Work space



NOTE

All sign positions to be risk assessed on site by LTMO/foreman.

Rev	Description	By	Chkd	Date
A	Hatching added.	AG	JW	20.08.18

Client

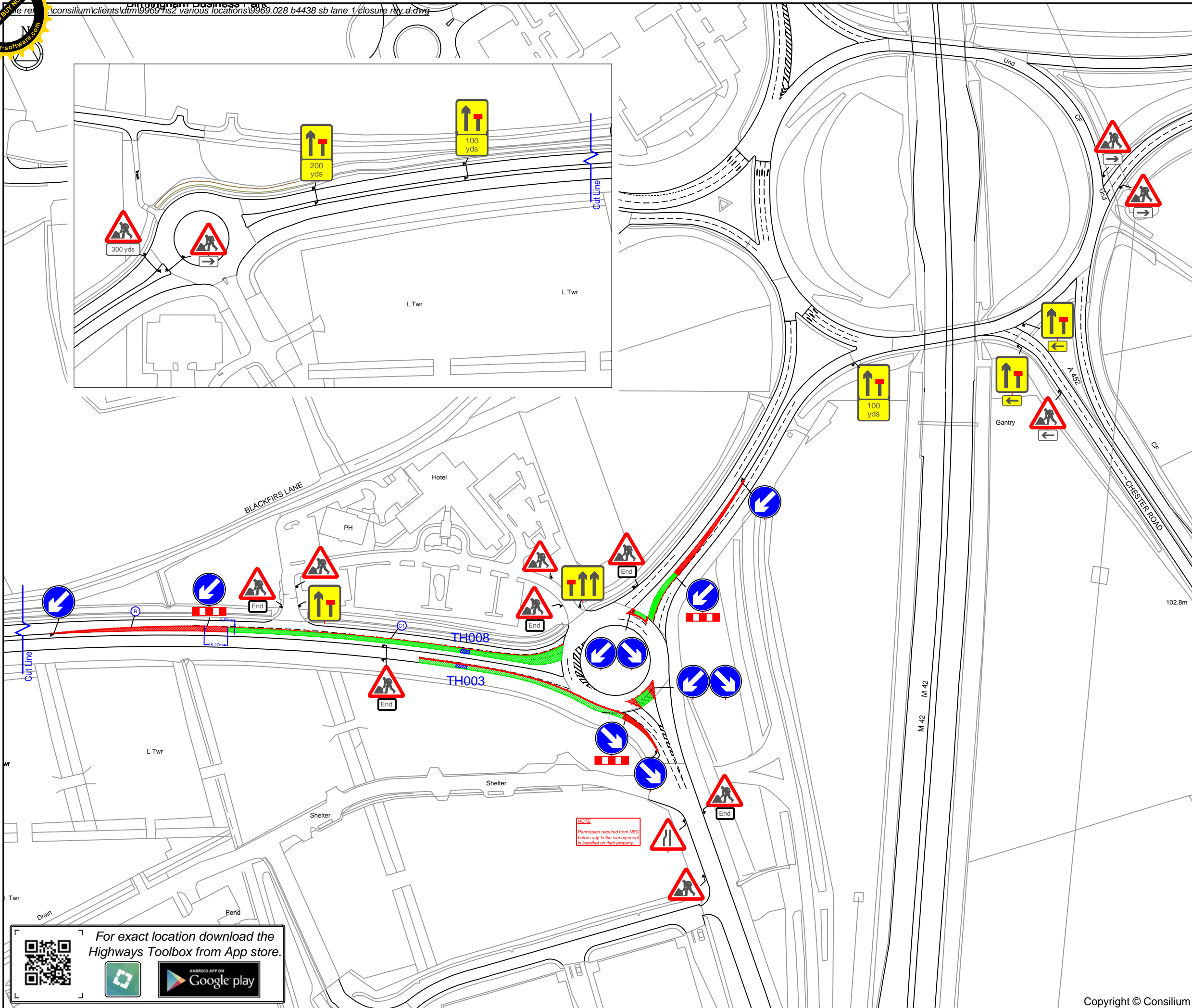
Project
**B4438 / NORTHWAY
 BIRMINGHAM**
 GRID REF: 419492 , 285032

Title
**NORTHBOUND
 LANE 2 CLOSURE**
WORK PACK 5

409 Tyburn Road, Birmingham, B24 8HJ - 0121 328 7266
 info@consilium-ts.co.uk - www.consilium-ts.co.uk

Design: AJ	Drawn: AJ	Chkd: KL
Date: 05/08/18	Date: 05/08/18	Date: 05/08/18
Scale: NTS	@ A3	Status:
Drawing No	9969.027	Rev: A

For exact location download the Highways Toolbox from App store.



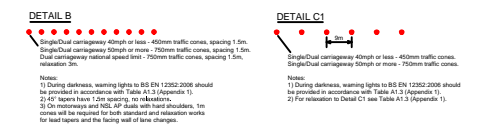
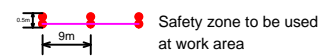
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 Dual carriageway road with Hard Shoulder (any speed limit) - Rate of Taper 1 in 55
 Motorway (any speed limit) - Rate of Taper 1 in 55



To be agreed on site

KEY

- Cone
- Sign
- Work area
- Safety zone
- Work space



NOTE

All sign positions to be risk assessed on site by LTMO/foreman.

D	Closure off 027 combined with 028.	AG	JW	28.09.18
C	Offside signs removed.	AG	JW	03.09.18
B	Taper added.	AG	JW	21.08.18
A	Lane lines and hatching added.	AG	JW	20.08.18
Rev	Description	By	Chkd	Date

Client

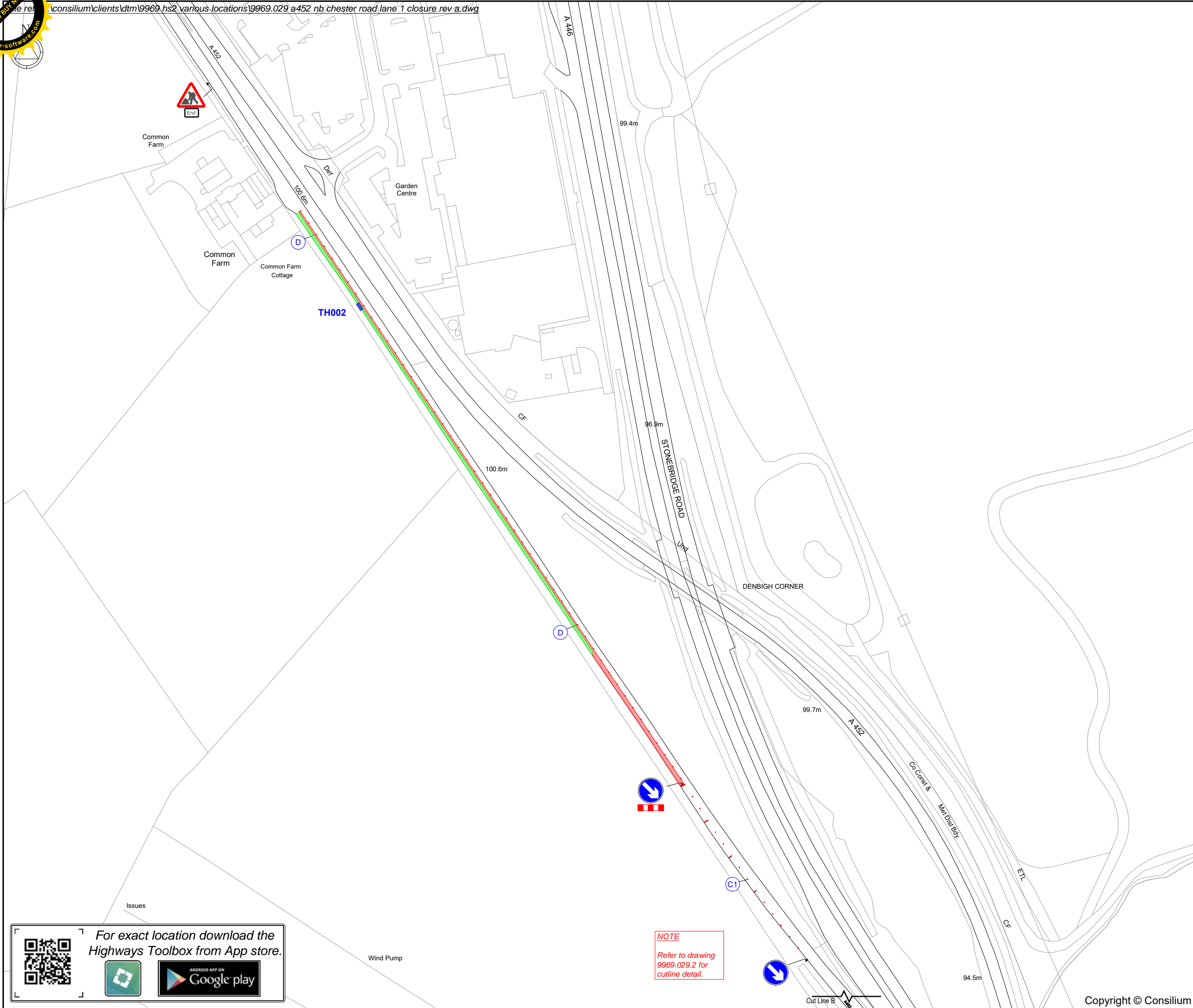
Project
 B4438 / NORTHWAY
 BIRMINGHAM
 GRID REF: 419489 , 285018

Title
 SOUTHBOUND
 LANE CLOSURE
 WORK PACK 5

409 Tyburn Road, Birmingham, B24 8HJ - 0121 328 7266
 info@consilium-ts.co.uk - www.consilium-ts.co.uk

Design: AJ	Drawn: AJ	Chkd: KL
Date: 05/08/18	Date: 05/08/18	Date: 05/08/18
Scale: NTS @ A3	Status:	
Drawing No	9969.028	Rev: D

For exact location download the Highways Toolbox from App store.



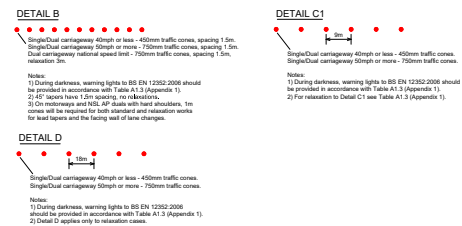
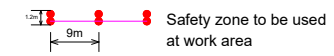
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 Dual carriageway road with Hard Shoulder (any speed limit) - Rate of Taper 1 in 55
 Motorway (any speed limit) - Rate of Taper 1 in 55



To be agreed on site

KEY

- Cone
- Sign
- ▨ Work area
- ▨ Safety zone
- ▨ Work space



NOTE

All sign positions to be risk assessed on site by LTMO/ foreman.

B	Offside sign removed.	AG	JW	03.09.18
A	Hatched area added.	AG	JW	20.08.18
Rev	Description	By	Chkd	Date

Client

Project
**A452 CHESTER ROAD
 BIRMINGHAM
 GRID REF: 420101 , 284859**

Title
**NORTHBOUND
 LANE 1 CLOSURE
 WORK PACK 5**

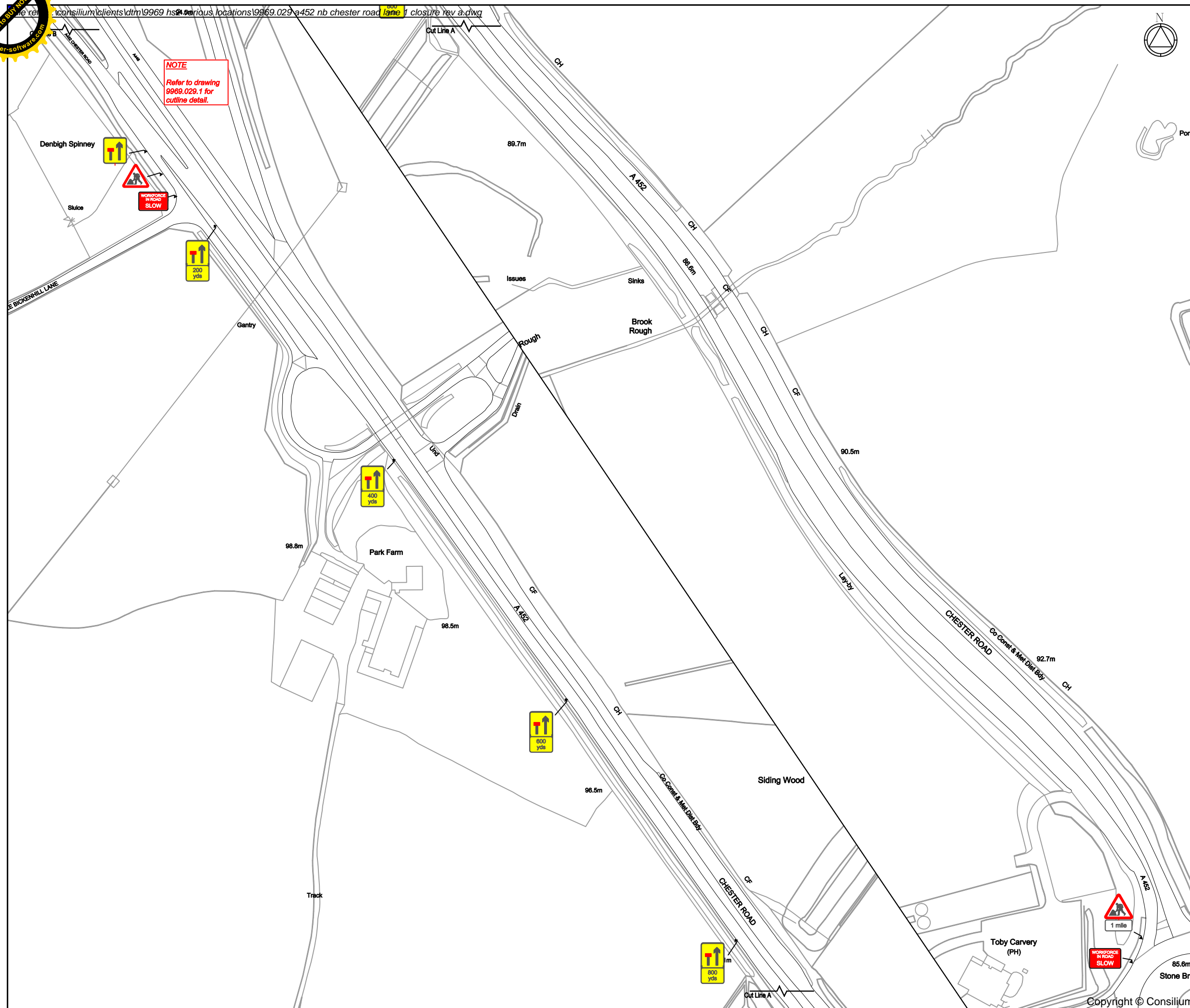
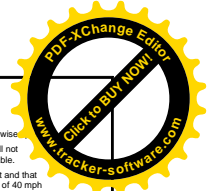
409 Tyburn Road, Birmingham, B24 8HJ - 0121 328 7266
 info@consilium-ts.co.uk - www.consilium-ts.co.uk

Design: AJ	Drawn: AJ	Chkd: KL
Date: 05/08/18	Date: 05/08/18	Date: 05/08/18
Scale: NTS @ A3	Status:	
Drawing No 9969.029.1	Rev: B	

For exact location download the Highways Toolbox from App store.

NOTE

Refer to drawing 9969.029.2 for cutline detail.



NOTE
Refer to drawing 9969.029.1 for outline detail.

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 Dual carriageway road without Hard Shoulder (speed limit 50 mph or more) - Rate of Taper 1 in 32
 Dual carriageway road with Hard Shoulder (any speed limit) - Rate of Taper 1 in 55
 Motorway (any speed limit) - Rate of Taper 1 in 55

KEY

● Sign

NOTE
All sign positions to be risk assessed on site by LTMO/ foreman.

Rev	Description	By	Chkd	Date
A	Advance signs altered.	AG	JW	28/08/18

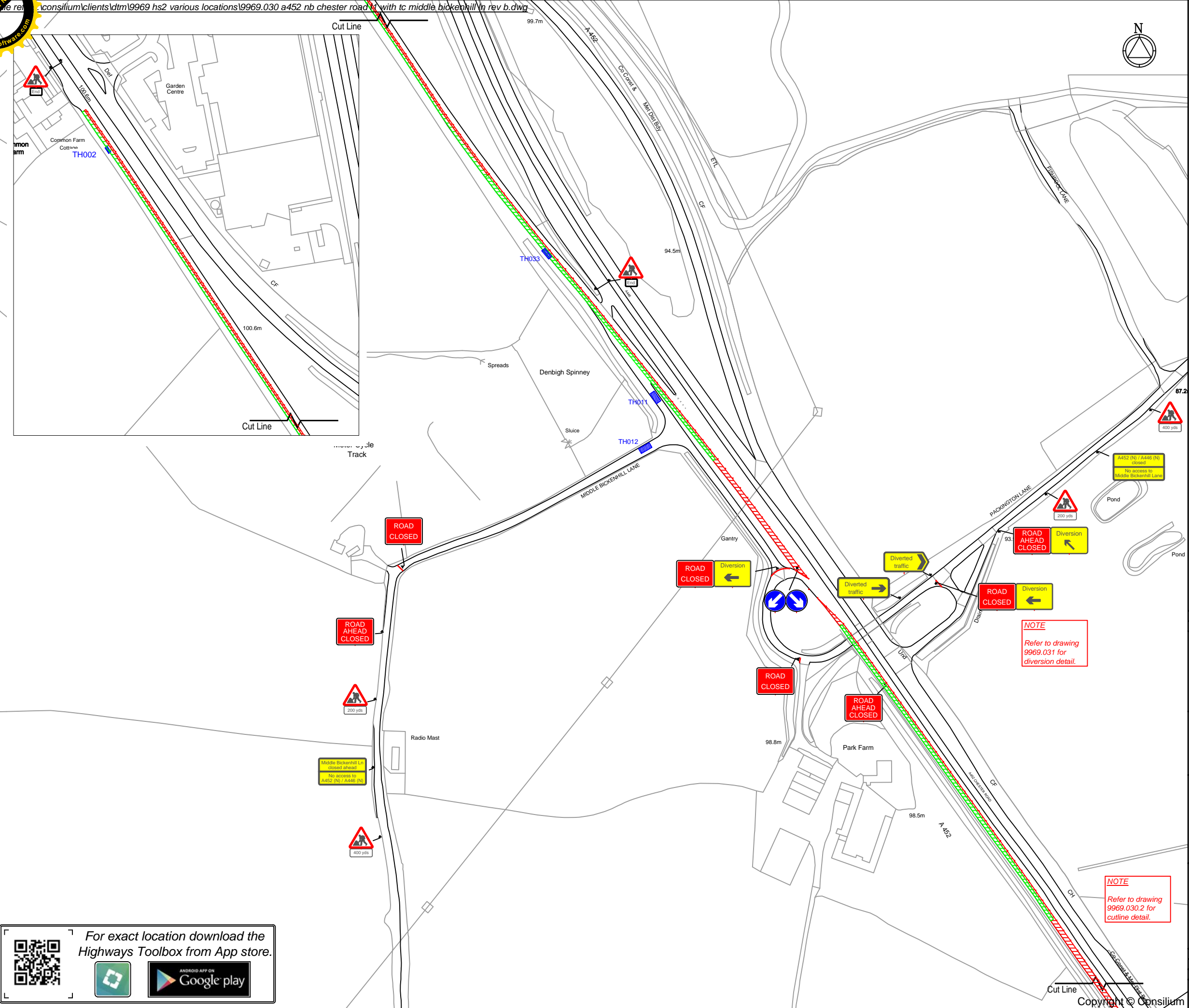
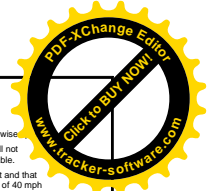
Client

Project
**A452 CHESTER ROAD
 BIRMINGHAM
 GRID REF: 420101 , 284859**

Title
**NORTHBOUND
 LANE 1 CLOSURE
 WORK PACK 5**

409 Tyburn Road, Birmingham, B24 8HJ - 0121 328 7266
 info@consilium-ts.co.uk - www.consilium-ts.co.uk

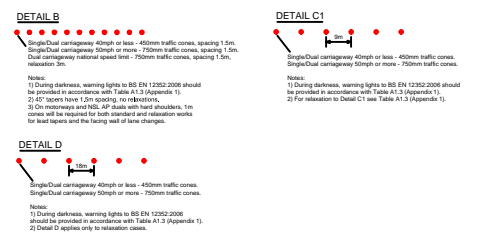
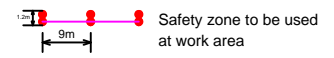
Design: AJ	Drawn: AJ	Chkd: KL
Date: 05/08/18	Date: 05/08/18	Date: 05/08/18
Scale: NTS @ A3	Status:	
Drawing No 9969.029.2	Rev: A	



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 Single carriageway road (speed limit 30 mph or less) - Rate of Taper 1 in 13
 Single carriageway road (speed limit 40 mph) - Rate of Taper 1 in 20
 Single carriageway road (speed limit 50 mph or more) - Rate of Taper 1 in 25
 Dual carriageway road without Hard Shoulder (speed limit 40 mph or less) - Rate of Taper 1 in 25
 Dual carriageway road without Hard Shoulder (speed limit 50 mph or more) - Rate of Taper 1 in 32
 Dual carriageway road with Hard Shoulder (any speed limit) - Rate of Taper 1 in 55
 Motorway (any speed limit) - Rate of Taper 1 in 55



- KEY**
- Cone
 - Sign
 - Work area
 - Safety zone
 - Work space



NOTE
 All sign positions to be risk assessed on site by LTMO/ foreman.

B	Trial hole 002 added.	AG	JW	27.09.18
A	Hatched area and signs altered.	AG	JW	21.08.18
Rev	Description	By	Chkd	Date

Client

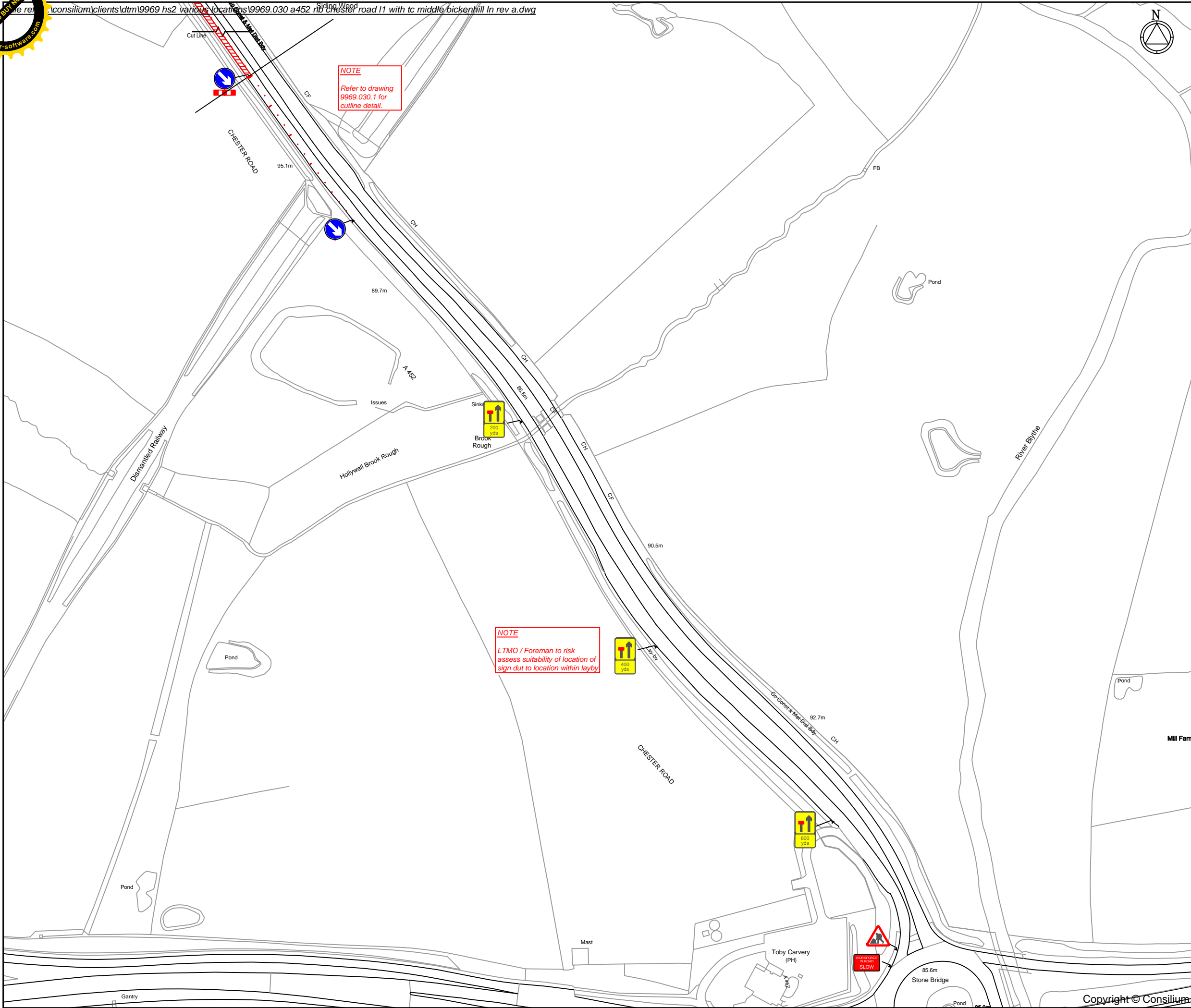
Project
A452 CHESTER ROAD BIRMINGHAM
 GRID REF: 420101 , 284859

Title
NORTHBOUND LANE 1 CLOSURE
WORK PACK 5

409 Tyburn Road, Birmingham, B24 8HJ - 0121 328 7266
 info@consilium-ts.co.uk - www.consilium-ts.co.uk

Design: AJ	Drawn: AJ	Chkd: KL
Date: 05/08/18	Date: 05/08/18	Date: 05/08/18
Scale: NTS @ A3	Status:	
Drawing No 9969.030.1	Rev: B	

For exact location download the Highways Toolbox from App store.



- NOTES**
- All traffic signs shall comply with Chapter 8 of the Traffic Signs Manual
 - All traffic management equipment shall be provided by the Contractor, unless otherwise specified.
 - All signs shall be positioned so as not to be obscured by any other objects and shall not obstruct any other sign, permanent or temporary as much as is reasonably practicable.
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 Dual carriageway road with Hard Shoulder (any speed limit) - Rate of Taper 1 in 55
 Motorway (any speed limit) - Rate of Taper 1 in 55

KEY

● Sign

NOTE

All sign positions to be risk assessed on site by LTMO/ foreman.

Rev	Description	By	Chkd	Date
A	Hatched area added.	AG	JW	21.08.18

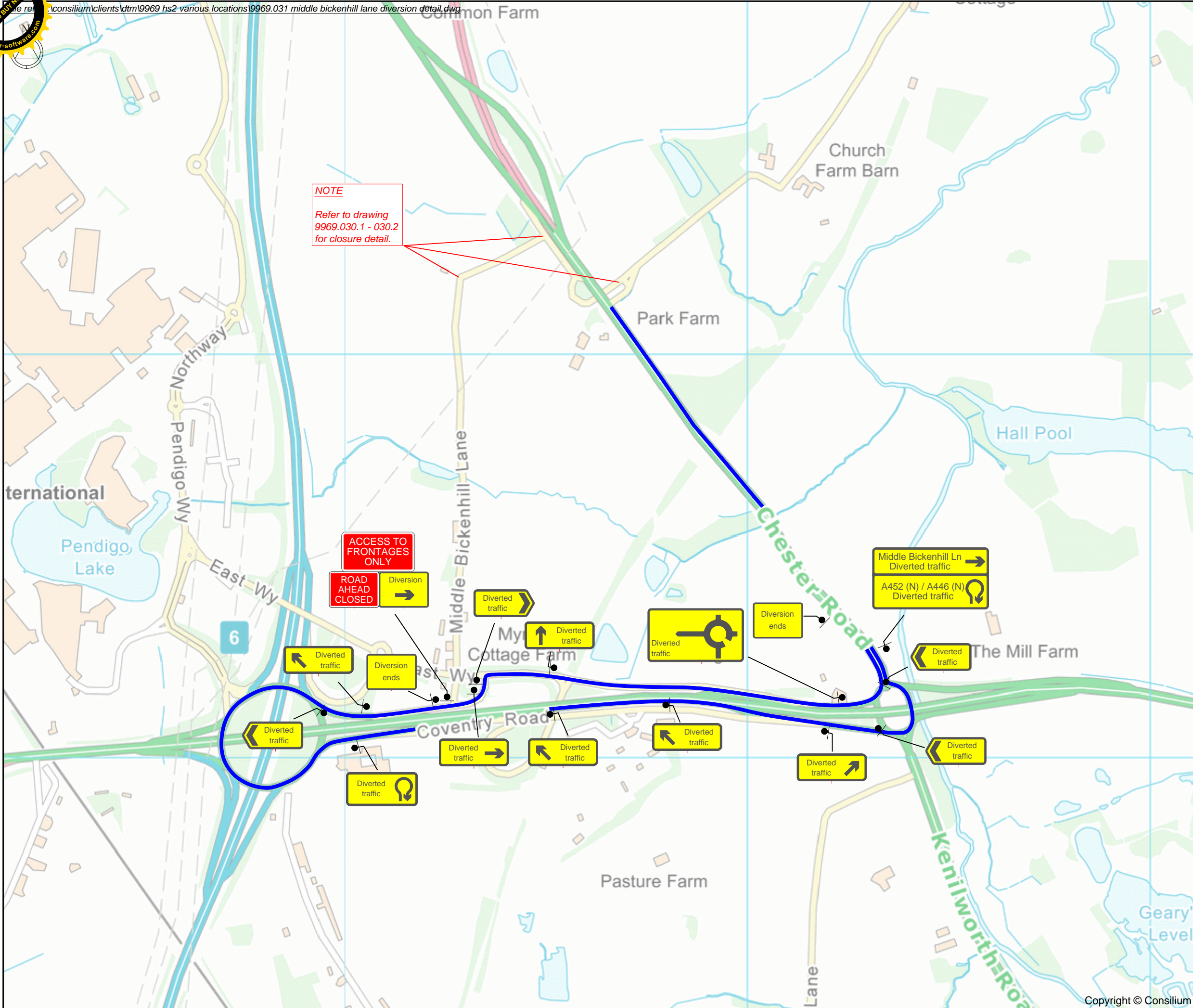
Client

Project
**A452 CHESTER ROAD
 BIRMINGHAM
 GRID REF: 420101 , 284859**

Title
**NORTHBOUND
 LANE 1 CLOSURE
 WORK PACK 5**

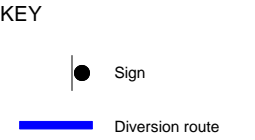
409 Tyburn Road, Birmingham, B24 8HJ - 0121 328 7266
 info@consilium-ts.co.uk - www.consilium-ts.co.uk

Design: AJ	Drawn: AJ	Chkd: KL
Date: 05/08/18	Date: 05/08/18	Date: 05/08/18
Scale: NTS @ A3	Status:	
Drawing No	9969.030.2	Rev: A



NOTE
 Refer to drawing
 9969.030.1 - 030.2
 for closure detail.

- NOTES**
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NOTE
 All sign positions to be risk assessed on site by LTMO/ foreman.

Rev	Description	By	Chkd	Date

Revisions

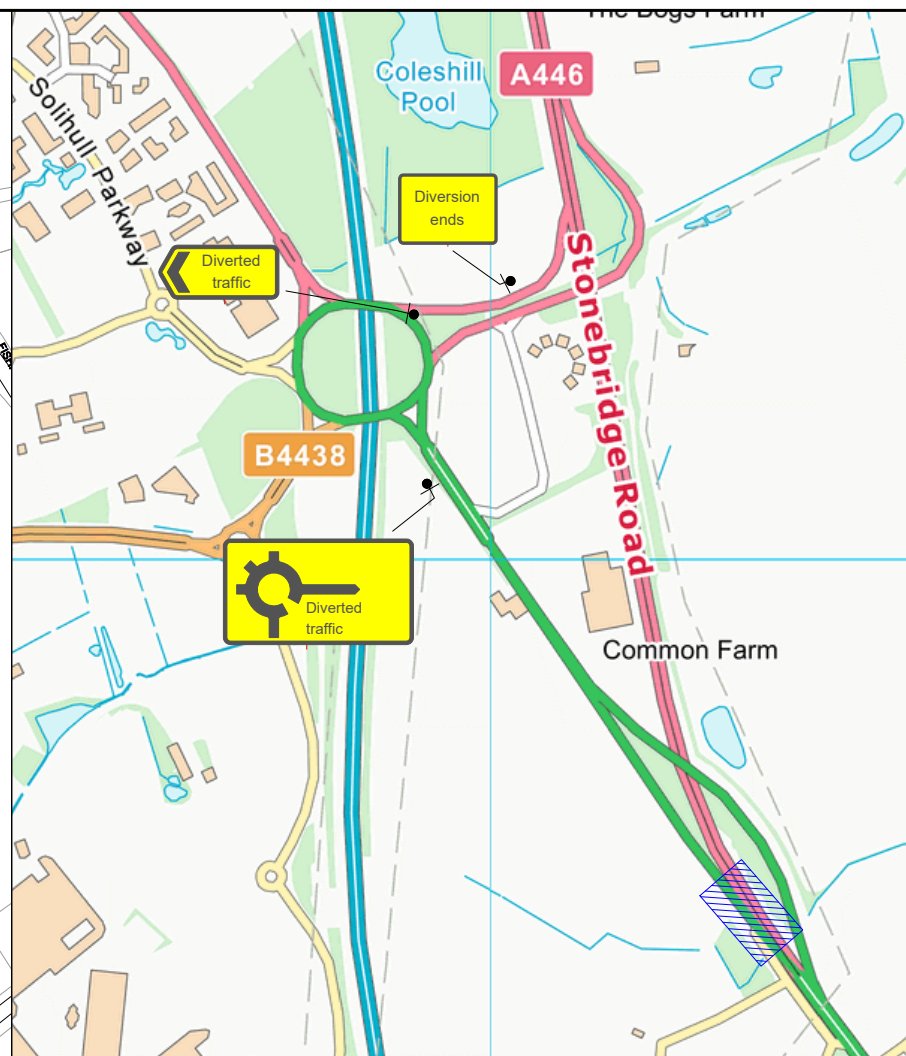
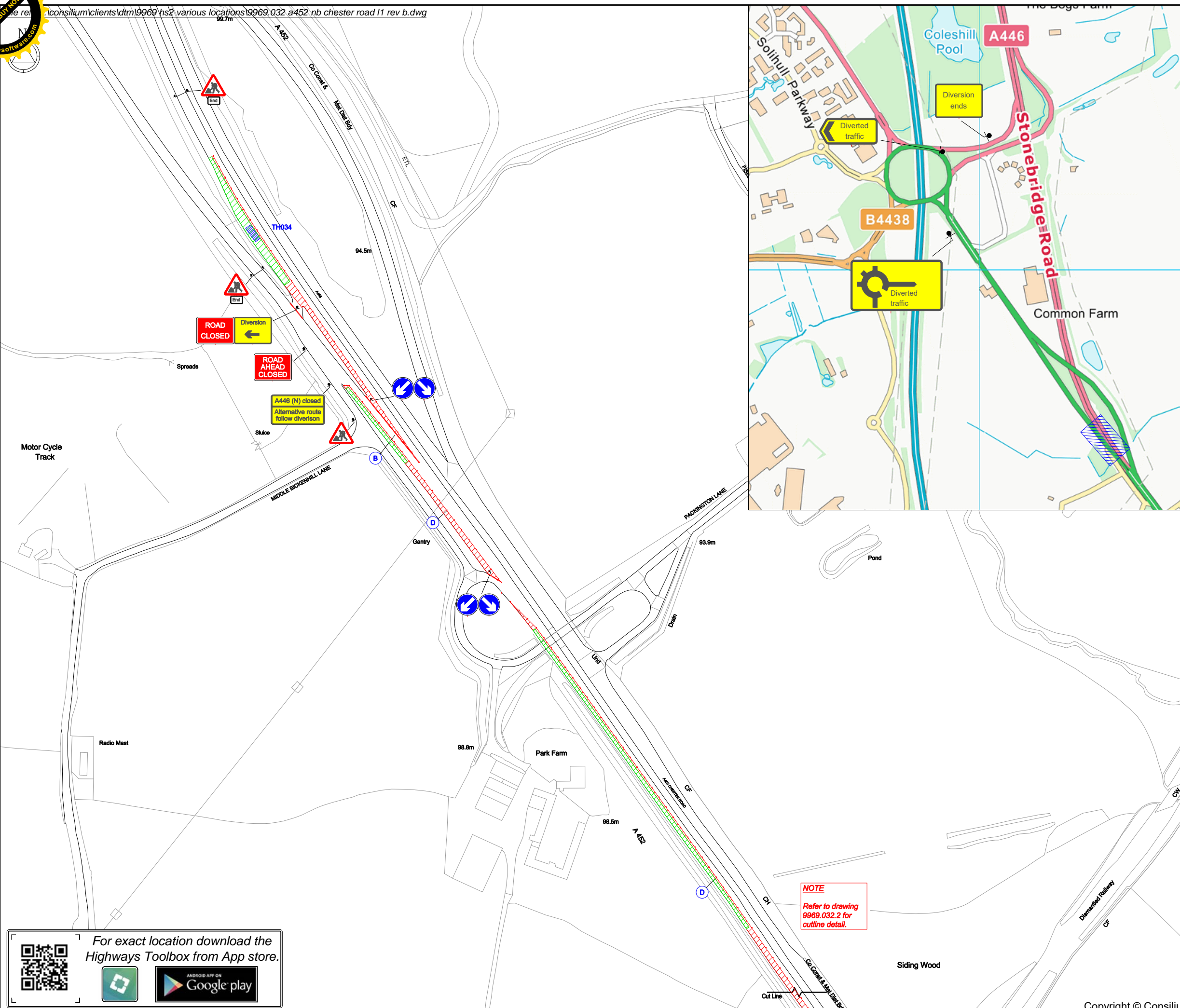
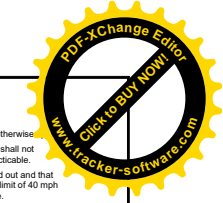
Client

Project
**A452 CHESTER ROAD
 BIRMINGHAM**
 GRID REF: 420101 , 284859

Title
**MIDDLE BICKENHILL LANE
 DIVERSION DETAIL**
 WORK PACK 5

409 Tyburn Road, Birmingham, B24 8HJ - 0121 328 7266
 info@consilium-ts.co.uk - www.consilium-ts.co.uk

Design: AJ	Drawn: AJ	Chkd: KL
Date: 05/08/18	Date: 05/08/18	Date: 05/08/18
Scale: NTS @ A3	Status:	
Drawing No		Rev:
9969.031		



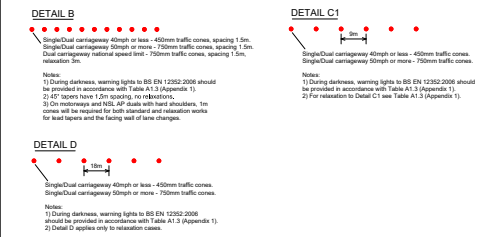
- NOTES**
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 - All traffic management equipment shall be provided by the Contractor, unless otherwise stated.
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 - Dual carriageway road with Hard Shoulder (any speed limit) - Rate of Taper 1 in 55
 - Motorway (any speed limit) - Rate of Taper 1 in 55



To be agreed on site

KEY

- Cone
- Sign
- Work area
- Safety zone
- Work space
- Safety zone to be used at work area



NOTE
All sign positions to be risk assessed on site by LTMO/foreman.

B	Work space added to key.	AG	JW	28.08.18
A	Hatched area added.	AG	JW	21.08.18
Rev	Description	By	Chkd	Date

Client

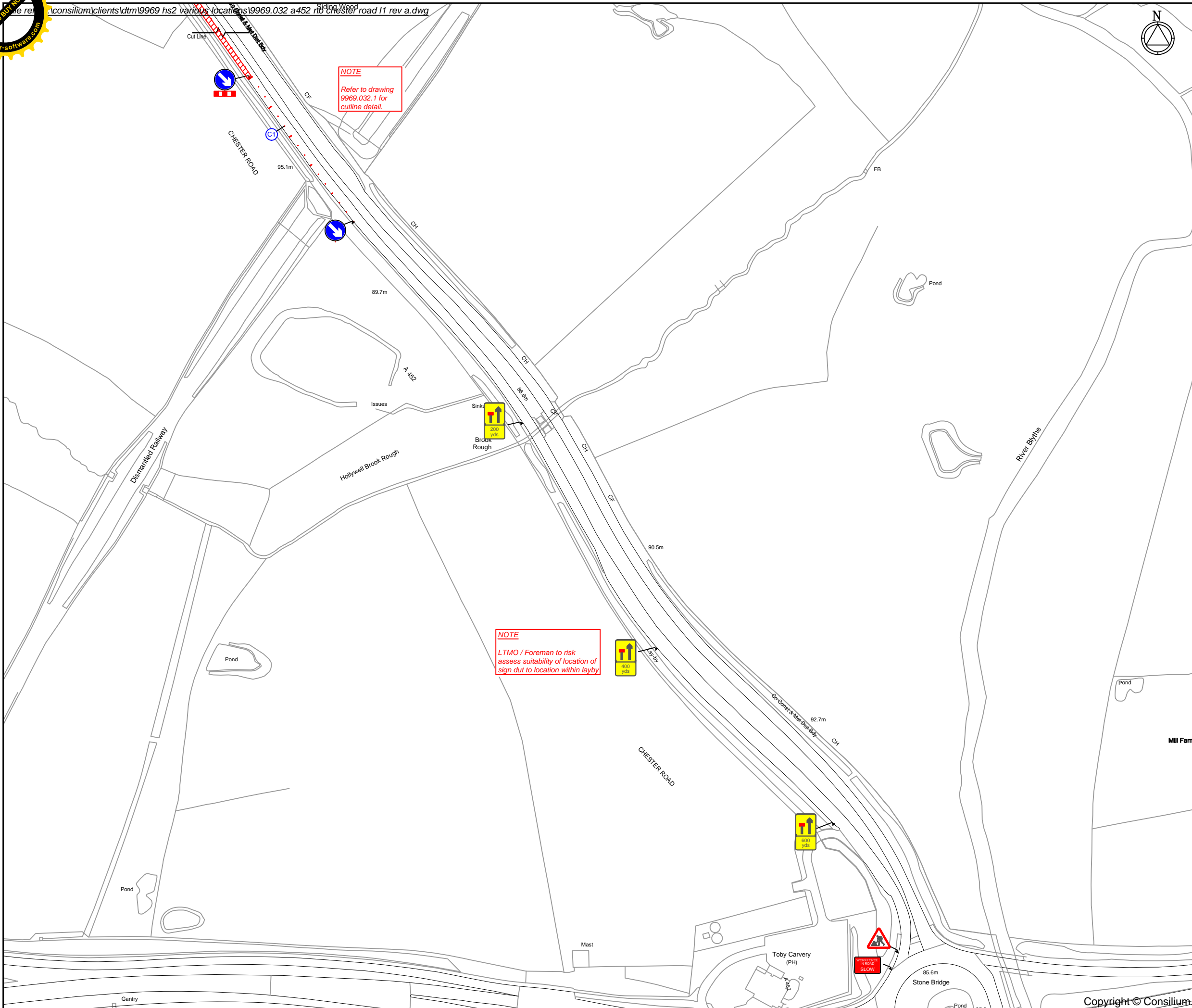
Project
**A452 CHESTER ROAD
 BIRMINGHAM**
 GRID REF: 420412 , 284441

Title
**NORTHBOUND
 LANE 1 CLOSURE**
WORK PACK 5

409 Tyburn Road, Birmingham, B24 8HJ - 0121 328 7266
 info@consilium-ts.co.uk - www.consilium-ts.co.uk

Design: AJ	Drawn: AJ	Chkd: KL
Date: 05/08/18	Date: 05/08/18	Date: 05/08/18
Scale: NTS @ A3	Status:	
Drawing No 9969.032.1	Rev: B	

For exact location download the Highways Toolbox from App store.



NOTE
Refer to drawing 9969.032.1 for cutline detail.

NOTE
LTMO / Foreman to risk assess suitability of location of sign dut to location within layby

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 Motorway (any speed limit) - Rate of Taper 1 in 55

KEY

● Sign

NOTE
All sign positions to be risk assessed on site by LTMO/ foreman.

Rev	Description	By	Chkd	Date
A	Hatched area added.	AG	JW	21.08.18

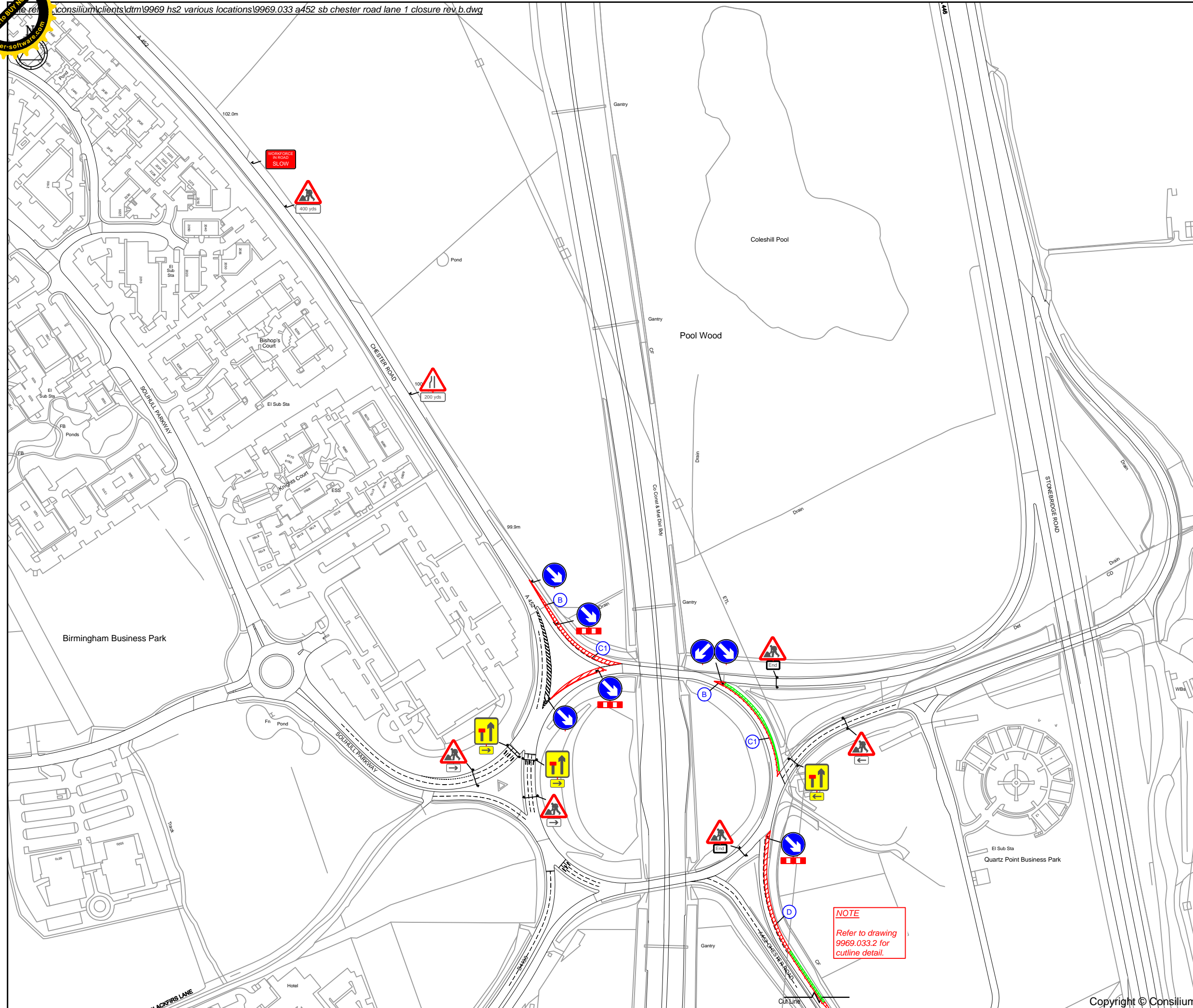
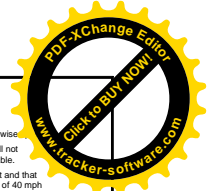
Client

Project
**A452 CHESTER ROAD
 BIRMINGHAM
 GRID REF: 420412 , 284441**

Title
**NORTHBOUND
 LANE 1 CLOSURE
 WORK PACK 5**

409 Tyburn Road, Birmingham, B24 8HJ - 0121 328 7266
 info@consilium-ts.co.uk - www.consilium-ts.co.uk

Design: AJ	Drawn: AJ	Chkd: KL
Date: 05/08/18	Date: 05/08/18	Date: 05/08/18
Scale: NTS @ A3	Status:	
Drawing No 9969.032.2	Rev: A	

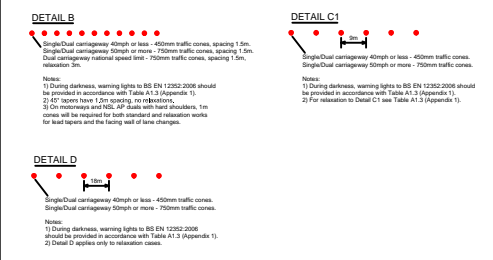


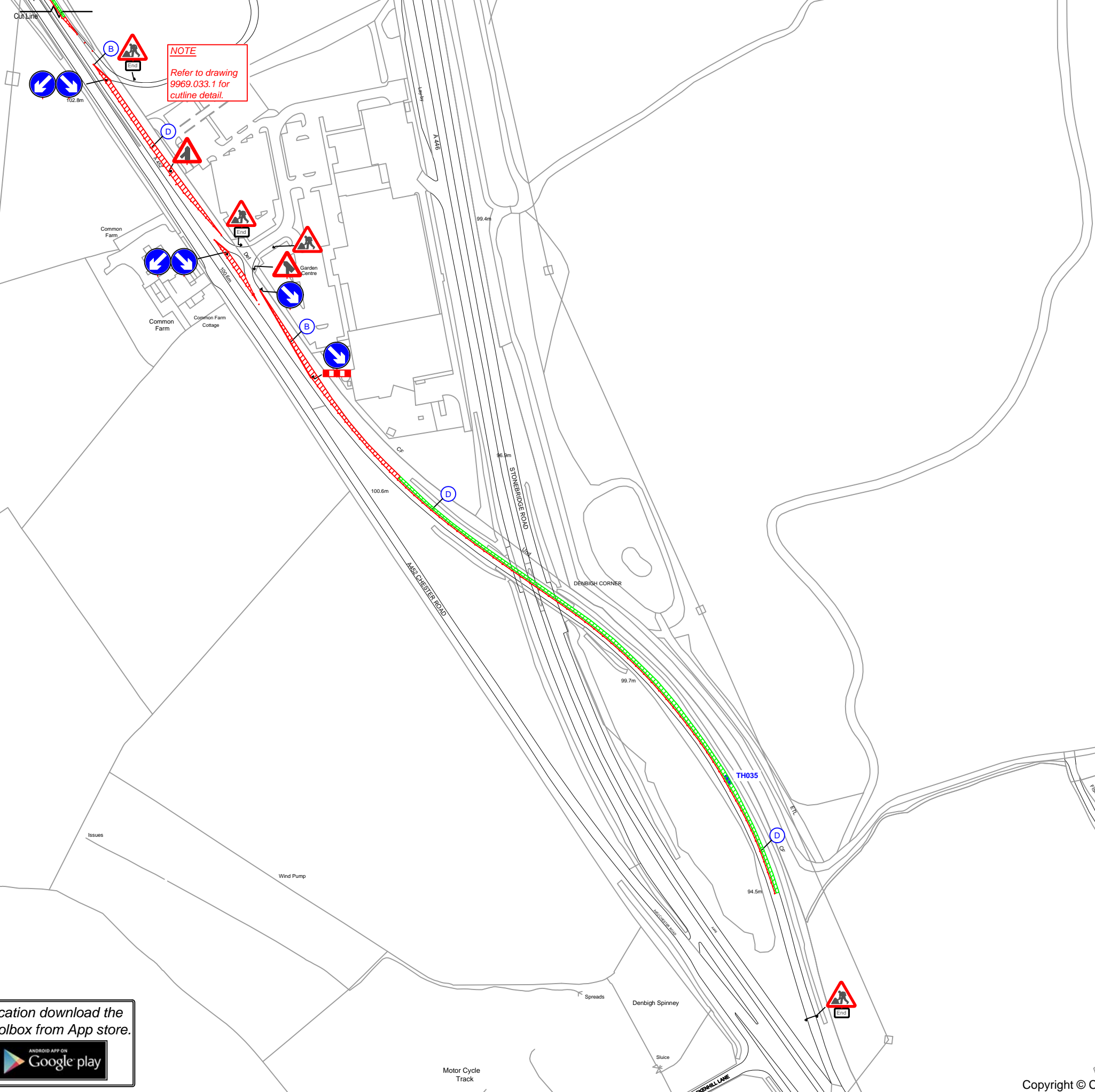
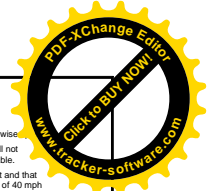
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 Dual carriageway road without Hard Shoulder (speed limit 50 mph or more) - Rate of Taper 1 in 32
 Dual carriageway road with Hard Shoulder (any speed limit) - Rate of Taper 1 in 55
 Motorway (any speed limit) - Rate of Taper 1 in 55



KEY

- Cone
- Sign
- Work area
- Safety zone
- Safety zone to be used at work area





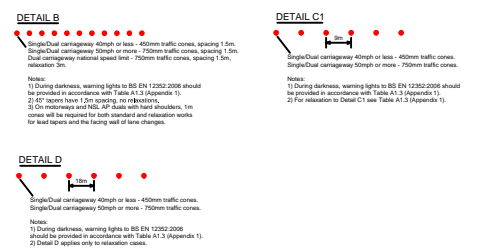
NOTE
Refer to drawing
9969.033.1 for
outline detail.

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Dual carriageway road with Hard Shoulder (any speed limit) - Rate of Taper 1 in 55
Motorway (any speed limit) - Rate of Taper 1 in 55



KEY

- Cone
- Sign
- Work area
- Safety zone
- Safety zone to be used at work area



NOTE
All sign positions to be risk assessed on site by LTMO/ foreman.

A	Hatched area added.	AG	JW	21.08.18
Rev	Description	By	Chkd	Date

Client

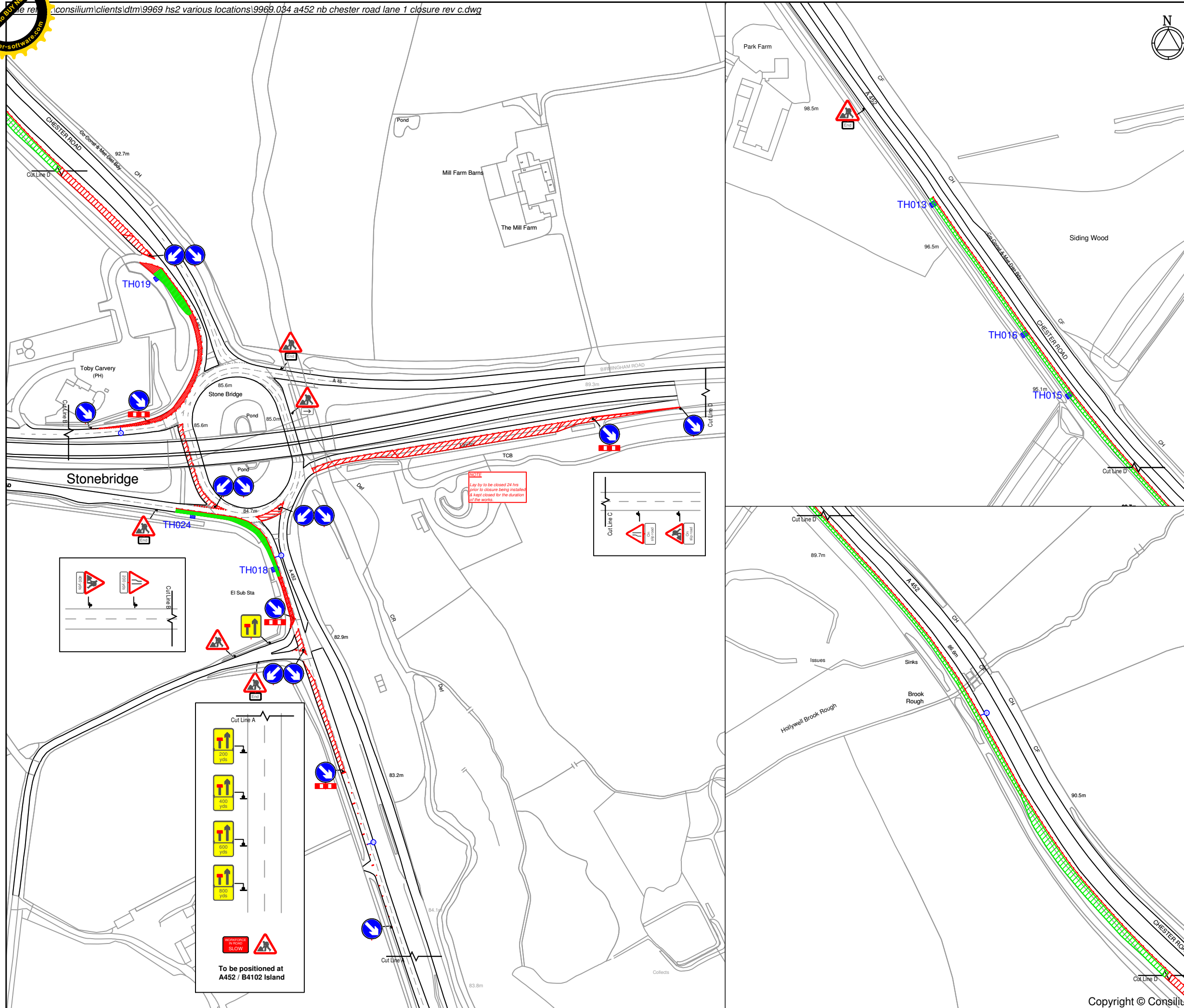
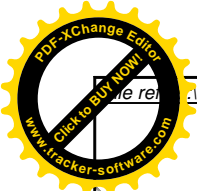
Project
**A452 CHESTER ROAD
 BIRMINGHAM
 GRID REF: 420498 , 284473**

Title
**SOUTHBOUND
 LANE 1 CLOSURE
 WORK PACK 5**

409 Tyburn Road, Birmingham, B24 8HJ - 0121 328 7266
 info@consilium-ts.co.uk - www.consilium-ts.co.uk

Design: AJ	Drawn: AJ	Chkd: KL
Date: 05/08/18	Date: 05/08/18	Date: 05/08/18
Scale: NTS @ A3	Status:	
Drawing No 9969.033.2	Rev: A	

For exact location download the Highways Toolbox from App store.

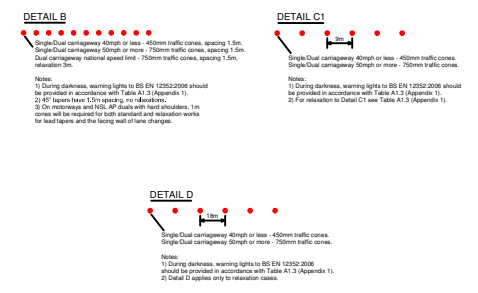


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 - Dual carriageway road with Hard Shoulder (any speed limit) - Rate of Taper 1 in 55
 - Motorway (any speed limit) - Rate of Taper 1 in 55



To be agreed on site

- KEY**
- Cone
 - Sign
 - Work area
 - Safety zone
 - Work space
 - Safety zone to be used at work area 0.5m



C	Layby closed and viewport removed.	AG	JW	01.10.18
B	Taper added.	AG	JW	21.08.18
A	Hatched area added.	AG	JW	21.08.18
Rev	Description	By	Chkd	Date

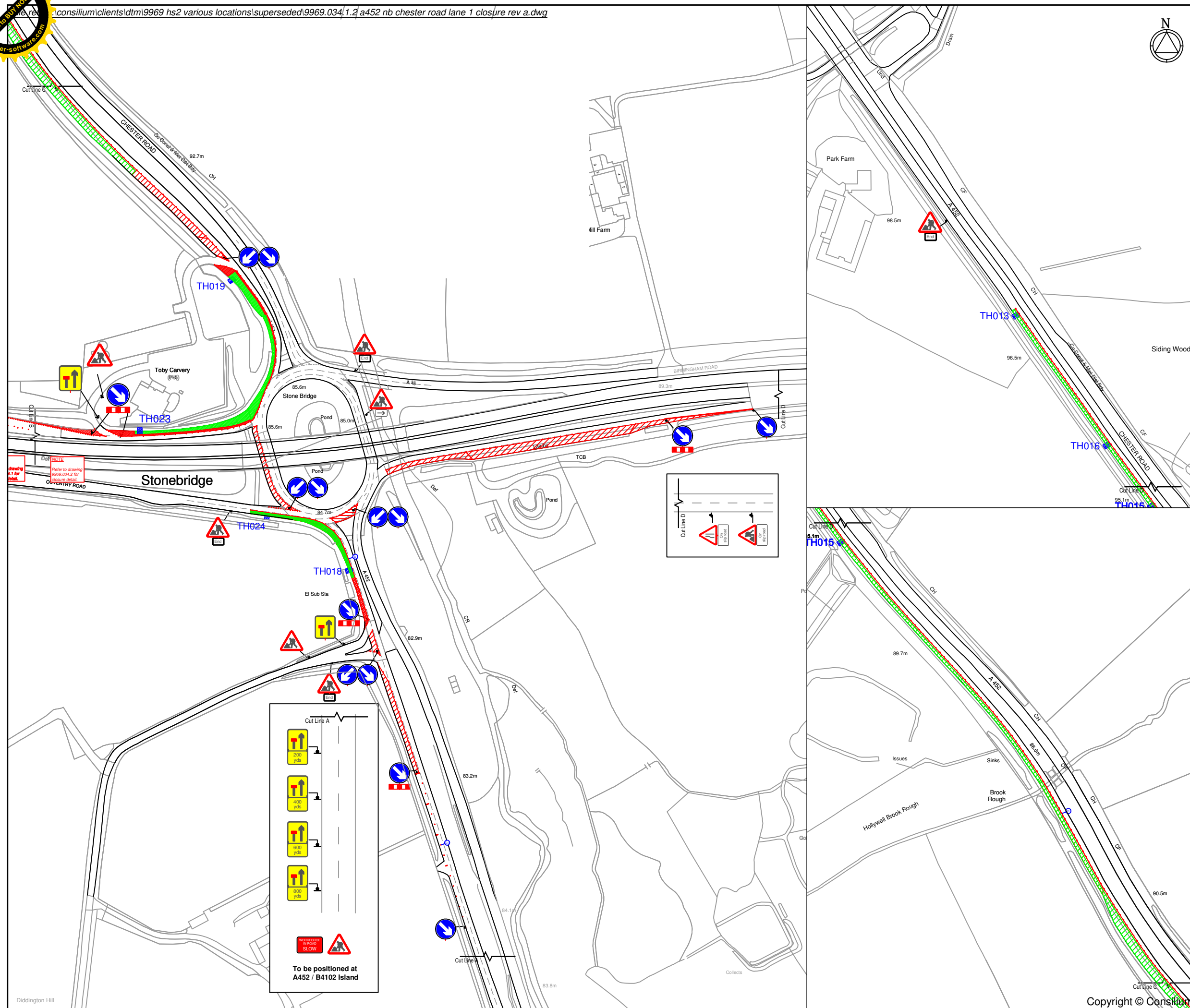
Client

Project
**A452 CHESTER ROAD
 BIRMINGHAM
 GRID REF: 421169, 283393**

Title
**NORTHBOUND
 LANE 1 CLOSURE
 WORK PACK 5**

409 Tyburn Road, Birmingham, B24 8HJ - 0121 328 7266
 info@consilium-ts.co.uk - www.consilium-ts.co.uk

Design: KL	Drawn: DM	Chkd: KL
Date: 06/08/18	Date: 06/08/18	Date: 06/08/18
Scale: NTS @ A3	Status:	
Drawing No	9969.034	Rev: C

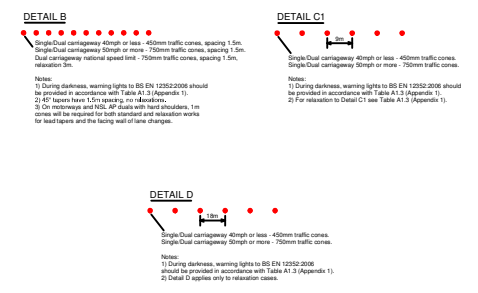


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 Dual carriageway road with Hard Shoulder (any speed limit) - Rate of Taper 1 in 55
 Motorway (any speed limit) - Rate of Taper 1 in 55



To be agreed on site

- KEY**
- Cone
 - Sign
 - Work area
 - Safety zone
 - Work space
 - Safety zone to be used at work area 0.5m



A	Viewport removed and layby closed	AG	JW	01/10/18
Rev	Description	By	Chkd	Date
Revisions				

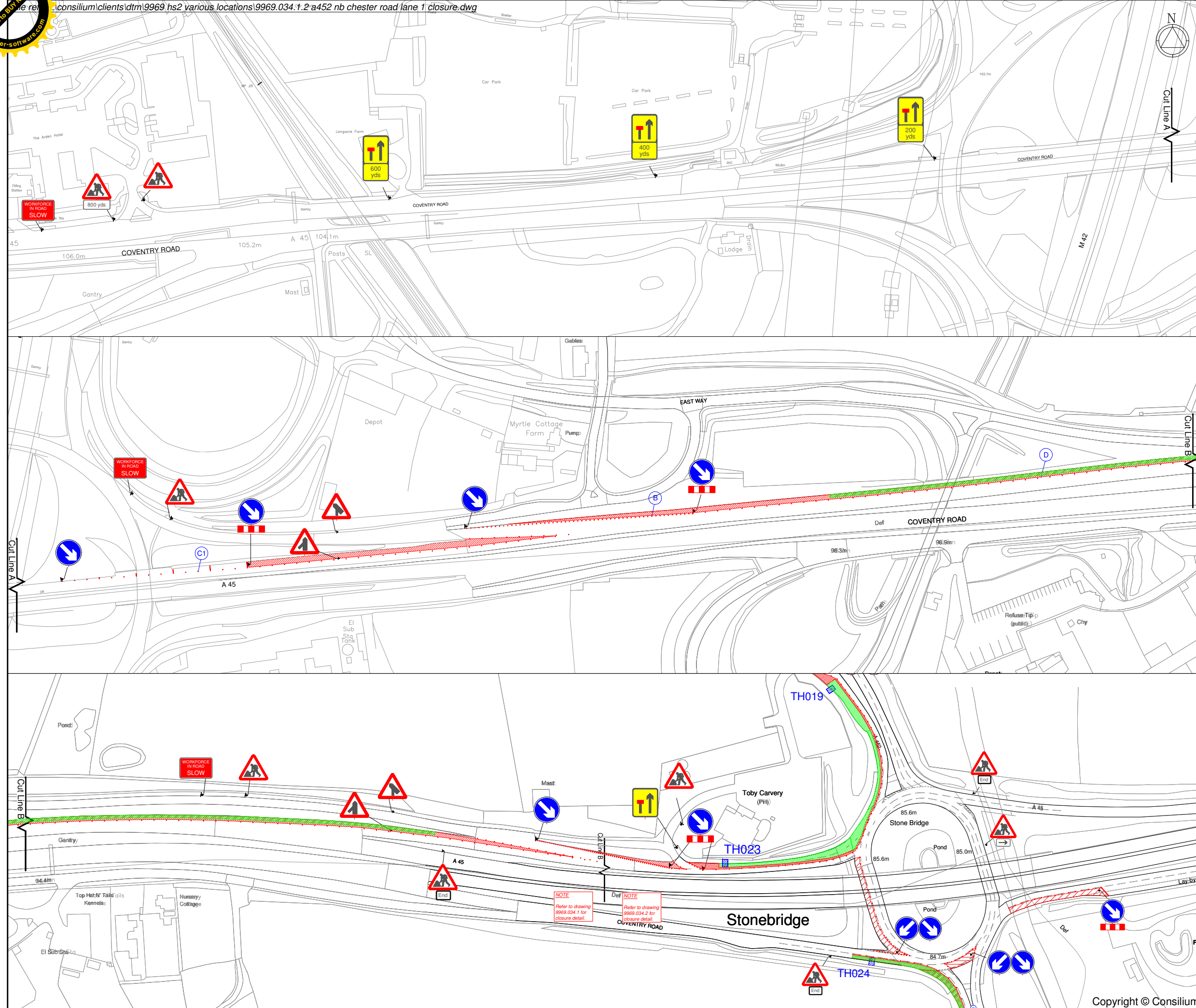
Client

Project
**A452 CHESTER ROAD
 BIRMINGHAM
 GRID REF: 421169, 283393**

Title
**NORTHBOUND
 LANE 1 CLOSURE
 WORK PACK 5**

409 Tyburn Road, Birmingham, B24 8HJ - 0121 328 7266
 info@consilium-ts.co.uk - www.consilium-ts.co.uk

Design: AG	Drawn: AG	Chkd: KL
Date: 28/08/18	Date: 28/08/18	Date: 28/08/18
Scale: NTS @ A3	Status:	
Drawing No 9969.034.1	Rev: A	



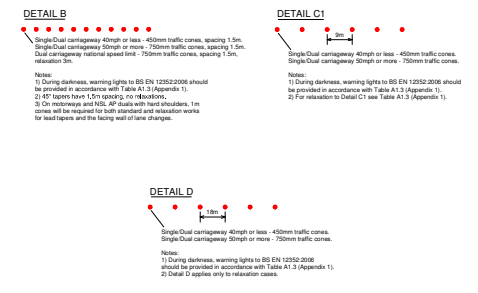
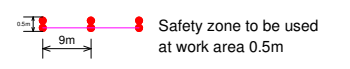
- NOTES**
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 Motorway (any speed limit) - Rate of Taper 1 in 55



To be agreed on site

KEY

- Cone
- Sign
- Work area
- Safety zone
- Work space



Rev	Description	By	Chkd	Date
Revisions				

Client

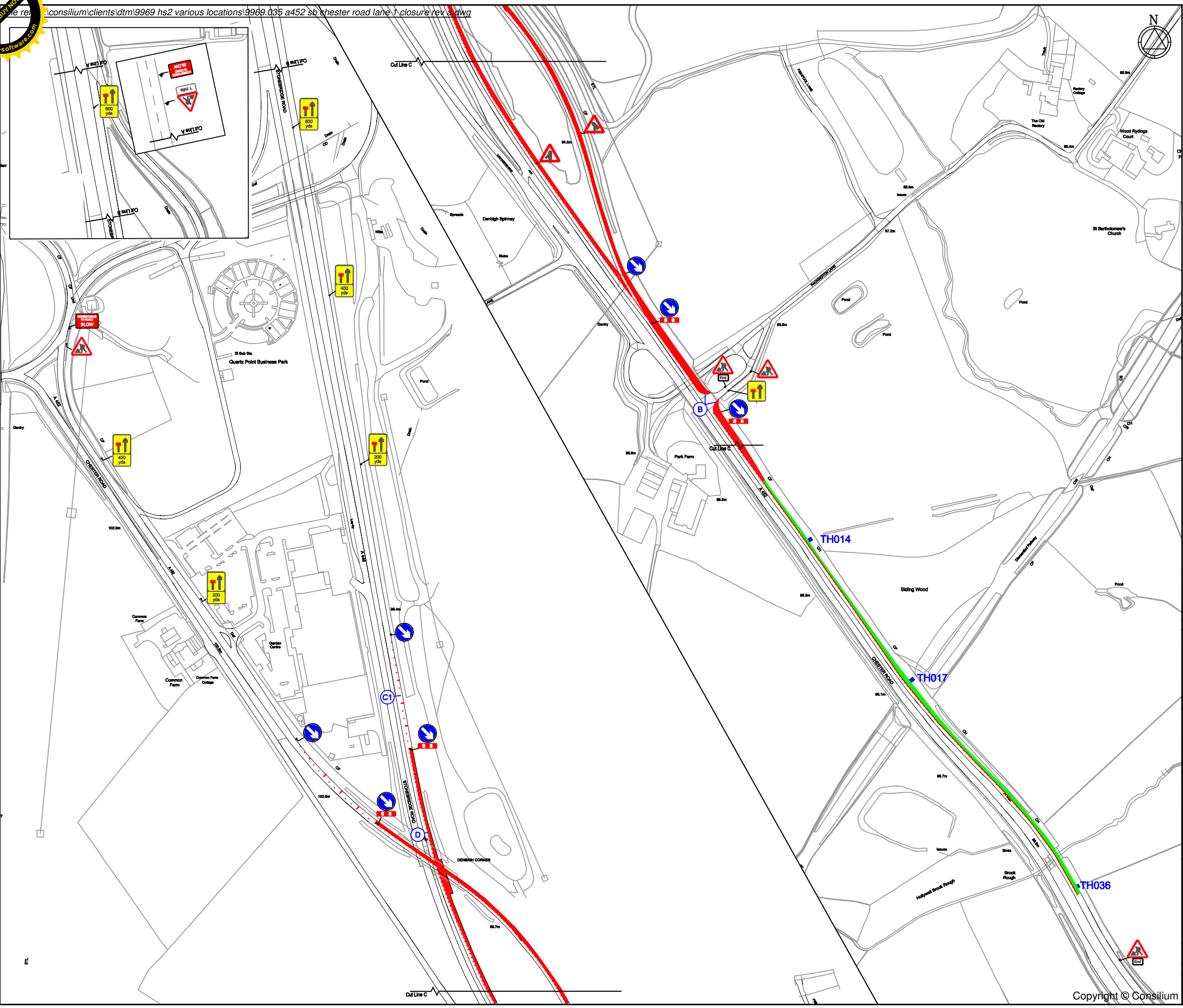
Project
**A45 COVENTRY ROAD JNC
 A452, BIRMINGHAM
 GRID REF: 421225, 283133**

Title
LANE 1 CLOSURE

WORK PACK 5

409 Tyburn Road, Birmingham, B24 8HJ - 0121 328 7266
 info@consilium-ts.co.uk - www.consilium-ts.co.uk

Design: AG	Drawn: AG	Chkd: JW
Date: 28/08/18	Date: 28/08/18	Date: 28/08/18
Scale: NTS @ A3	Status:	
Drawing No 9969.034.2	Rev:	



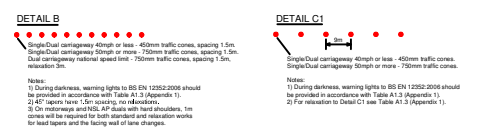
- NOTES**
- All traffic signs shall comply with Chapter 8 of the Traffic Signs Manual
 - All traffic management equipment shall be provided by the Contractor, unless otherwise specified.
 - All signs shall be positioned so as not to be obscured by any other objects and shall not obstruct any other sign, permanent or temporary as much as is reasonably practicable.
 - The minimum lateral clearance between any area in which work is being carried out and that part of the carriageway available to traffic shall be 0.5m for roads with a speed limit of 40 mph or less and 1.2m for motorways and roads with a speed limit of 50 mph or more.
 - All traffic signs shall meet the reflectorisation requirements of BS 673 : Part 6 : 1983, Table 1.
 - The permitted use of given types of closure shall be as specified.
 - Constraints on the use of given types of closure shall be as specified.
 - The lengths of tapers shown on the standard lane closure drawings are based on a basic lane width of 3.65m, rounded up to generally the nearest 5m. Where the actual lane width varies from the figure the following shall be used to calculate taper lengths:
 Single carriageway road (speed limit 30 mph or less) - Rate of Taper 1 in 13
 Single carriageway road (speed limit 40 mph) - Rate of Taper 1 in 20
 Single carriageway road (speed limit 50 mph or more) - Rate of Taper 1 in 25
 Dual carriageway road without Hard Shoulder (speed limit 40 mph or less) - Rate of Taper 1 in 25
 Dual carriageway road without Hard Shoulder (speed limit 50 mph or more) - Rate of Taper 1 in 32
 Dual carriageway road with Hard Shoulder (any speed limit) - Rate of Taper 1 in 55
 Motorway (any speed limit) - Rate of Taper 1 in 55



To be agreed on site

KEY

- Cone
- Sign
- Work area
- Safety zone
- Work space
- Safety zone to be used at work area



NOTE

All sign positions to be risk assessed on site by LTMO/ foreman.

A	Additional lane closure added.	AG	JW	27/09/18
Rev	Description	By	Chkd	Date

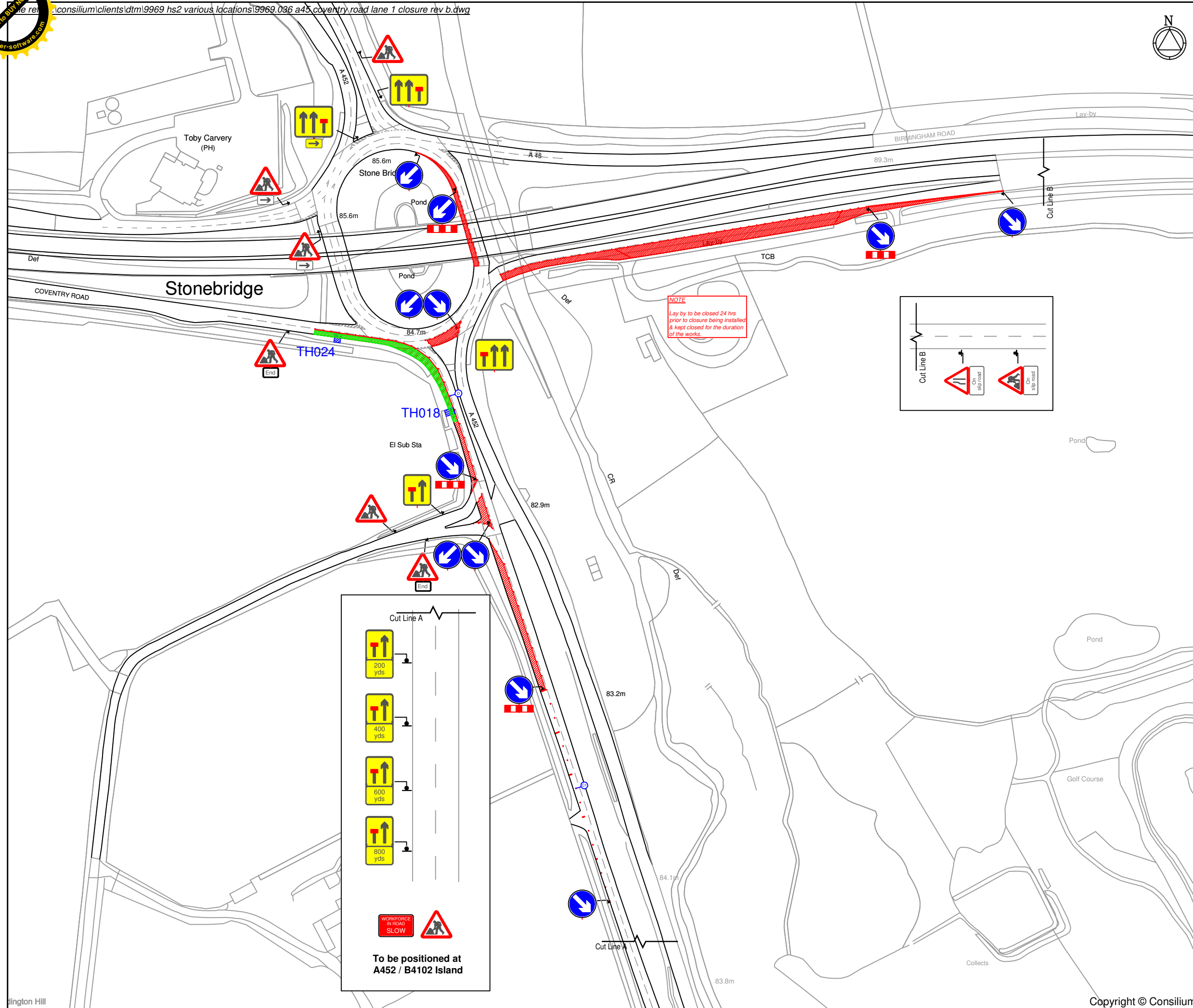
Client

Project
**A452 CHESTER ROAD
 BIRMINGHAM
 GRID REF: 420699, 284063**

Title
**SOUTHBOUND
 LANE 1 CLOSURE
 WORK PACK 5**

409 Tyburn Road, Birmingham, B24 8HJ - 0121 328 7266
 info@consilium-ts.co.uk - www.consilium-ts.co.uk

Design: KL	Drawn: DM	Chkd: KL
Date: 06/08/18	Date: 06/08/18	Date: 06/08/18
Scale: NTS @ A3	Status:	
Drawing No 9969.035	Rev: A	

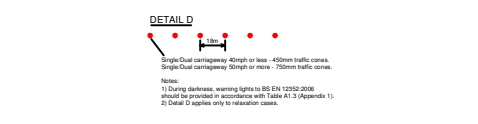
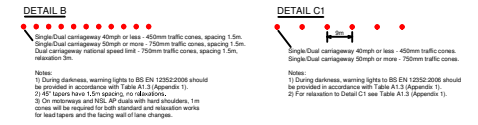
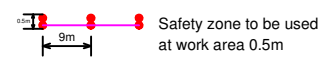


- NOTES**
- All traffic signs shall comply with Chapter 6 of the Traffic Signs Manual.
 - All traffic management equipment shall be provided by the Contractor, unless otherwise specified.
 - All signs shall be positioned so as not to be obscured by any other objects and shall not obstruct any other sign, permanent or temporary as much as is reasonably practicable.
 - The minimum lateral clearance between any area in which work is being carried out and that part of the carriageway available to traffic shall be 0.5m for roads with a speed limit of 40 mph or less and 1.2m for motorways and roads with a speed limit of 50 mph or more.
 - All traffic signs shall meet the reflectorisation requirements of BS 873 - Part 6: 1983, Table 1.
 - The permitted use of given types of closure shall be as specified.
 - Constraints on the use of given types of closure shall be as specified.
 - The lengths of tapers shown on the standard lane closure drawings are based on a basic lane width of 3.65m, rounded up to generally the nearest 5m. Where the actual lane width varies from this figure the following shall be used to calculate taper lengths:
 Single carriageway road (speed limit 30 mph or less) - Rate of Taper 1 in 13
 Single carriageway road (speed limit 40 mph or more) - Rate of Taper 1 in 20
 Single carriageway road (speed limit 50 mph or more) - Rate of Taper 1 in 25
 Dual carriageway road without Hard Shoulder (speed limit 40 mph or less) - Rate of Taper 1 in 25
 Dual carriageway road without Hard Shoulder (speed limit 50 mph or more) - Rate of Taper 1 in 32
 Dual carriageway road with Hard Shoulder (any speed limit) - Rate of Taper 1 in 50
 Motorway (any speed limit) - Rate of Taper 1 in 55



To be agreed on site

- KEY**
- Cone
 - Sign
 - Work area
 - Safety zone
 - Work space



B	Layby closed.	AG	JW	01.10.18
A	Sign changed.	AG	JW	21.08.18
Rev	Description	By	Chkd	Date

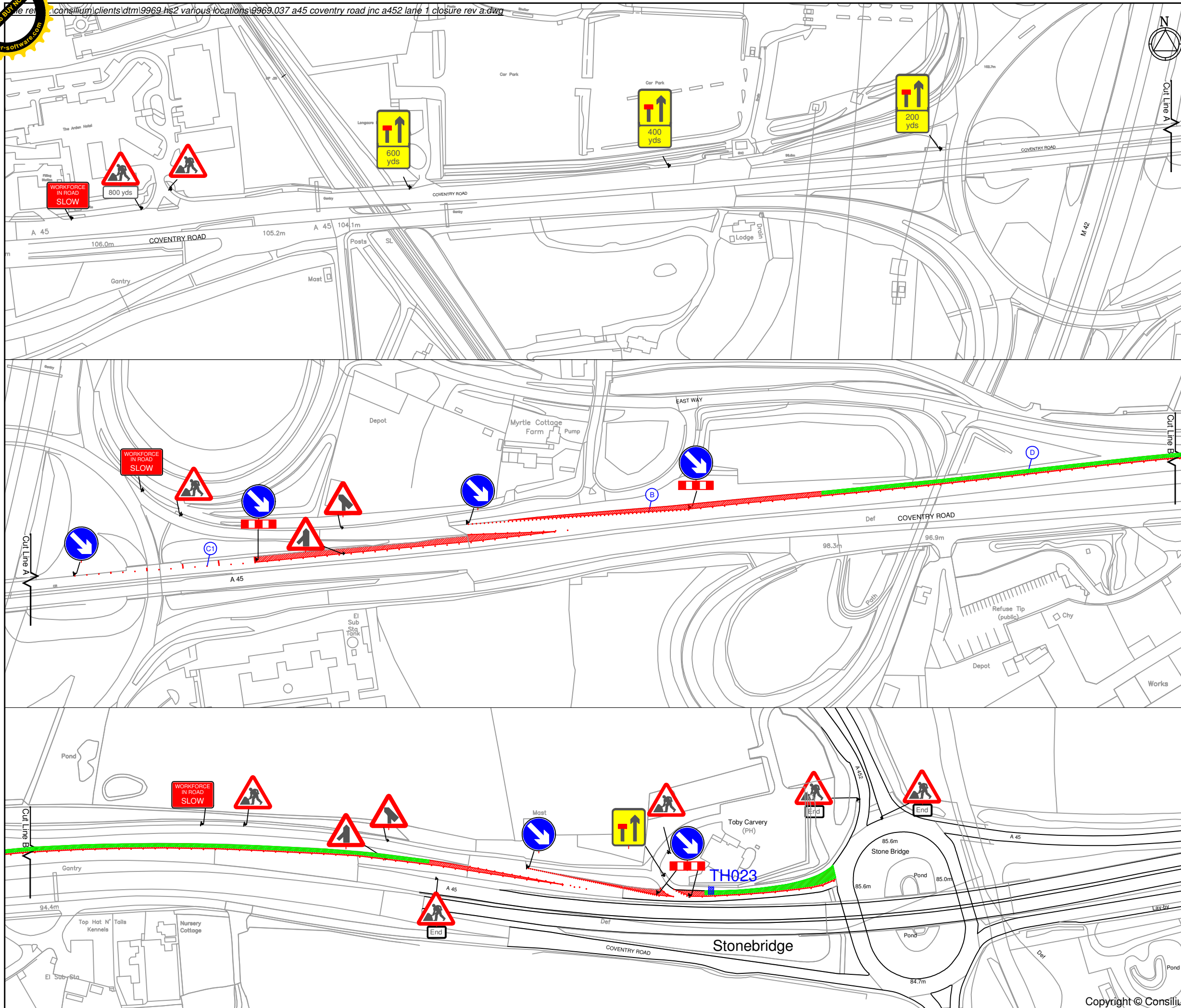
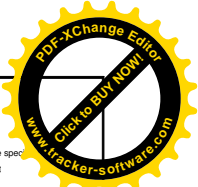
Client

Project
**A452 COVENTRY ROAD
 BIRMINGHAM
 GRID REF: 421299, 283256**

Title
**NORTHBOUND
 LANE 1 CLOSURE
 WORK PACK 5**

409 Tyburn Road, Birmingham, B24 8HJ - 0121 328 7266
 info@consilium-ts.co.uk - www.consilium-ts.co.uk

Design: KL	Drawn: DM	Chkd: KL
Date: 06/08/18	Date: 06/08/18	Date: 06/08/18
Scale: NTS @ A3	Status:	
Drawing No 9969.036	Rev: B	

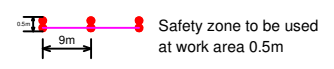


- NOTES**
- All traffic signs shall comply with Chapter 6 of the Traffic Signs Manual.
 - All traffic management equipment shall be provided by the Contractor, unless otherwise specified.
 - All signs shall be positioned so as not to be obscured by any other objects and shall not obstruct any other sign, permanent or temporary as much as is reasonably practicable.
 - The minimum lateral clearance between any area in which work is being carried out and that part of the carriageway available to traffic shall be 0.5m for roads with a speed limit of 40 mph or less and 1.2m for motorways and roads with a speed limit of 50 mph or more.
 - All traffic signs shall meet the reflectorisation requirements of BS 673 - Part 6: 1983, Table 1.
 - The permitted use of given types of closure shall be as specified.
 - Constraints on the use of given types of closure shall be as specified.
 - The lengths of tapers shown on the standard lane closure drawings are based on a basic lane width of 3.65m, rounded up to generally the nearest 5m. Where the actual lane width varies from this figure the following shall be used to calculate taper lengths:
 Single carriageway road (speed limit 30 mph or less) - Rate of Taper 1 in 13
 Single carriageway road (speed limit 40 mph) - Rate of Taper 1 in 20
 Single carriageway road (speed limit 50 mph or more) - Rate of Taper 1 in 25
 Dual carriageway road without Hard Shoulder (speed limit 40 mph or less) - Rate of Taper 1 in 25
 Dual carriageway road without Hard Shoulder (speed limit 50 mph or more) - Rate of Taper 1 in 32
 Dual carriageway road with Hard Shoulder (any speed limit) - Rate of Taper 1 in 55
 Motorway (any speed limit) - Rate of Taper 1 in 55



To be agreed on site

- KEY**
- Cone
 - Sign
 - Work area
 - Safety zone
 - Work space



- DETAIL B**
 Single Dual carriageway 40mph or less - 400mm traffic cones, spacing 1.5m.
 Single Dual carriageway 50mph or more - 750mm traffic cones, spacing 1.5m.
 Motorway 5m.
- DETAIL C1**
 Single Dual carriageway 40mph or less - 400mm traffic cones.
 Single Dual carriageway 50mph or more - 750mm traffic cones.
- DETAIL D**
 Single Dual carriageway 40mph or less - 400mm traffic cones.
 Single Dual carriageway 50mph or more - 750mm traffic cones.
- Notes:**
 1) During darkness, warning lights to BS EN 12922:2006 should be provided in accordance with Table A1.3 (Appendix 1).
 2) All signs shall be illuminated in accordance with Table A1.3 (Appendix 1).
 3) On motorways and A1, AP signs with hard shoulders, 1m cones will be required for both overhead and overhead works for head tapers and the being rest of lane changes.
 4) During darkness, warning lights to BS EN 12922:2006 should be provided in accordance with Table A1.3 (Appendix 1).
 5) Detail D applies only to relaxation cones.

Rev	Description	By	Chkd	Date
A	Hatch area added.	AG	JW	21.08.18

Client

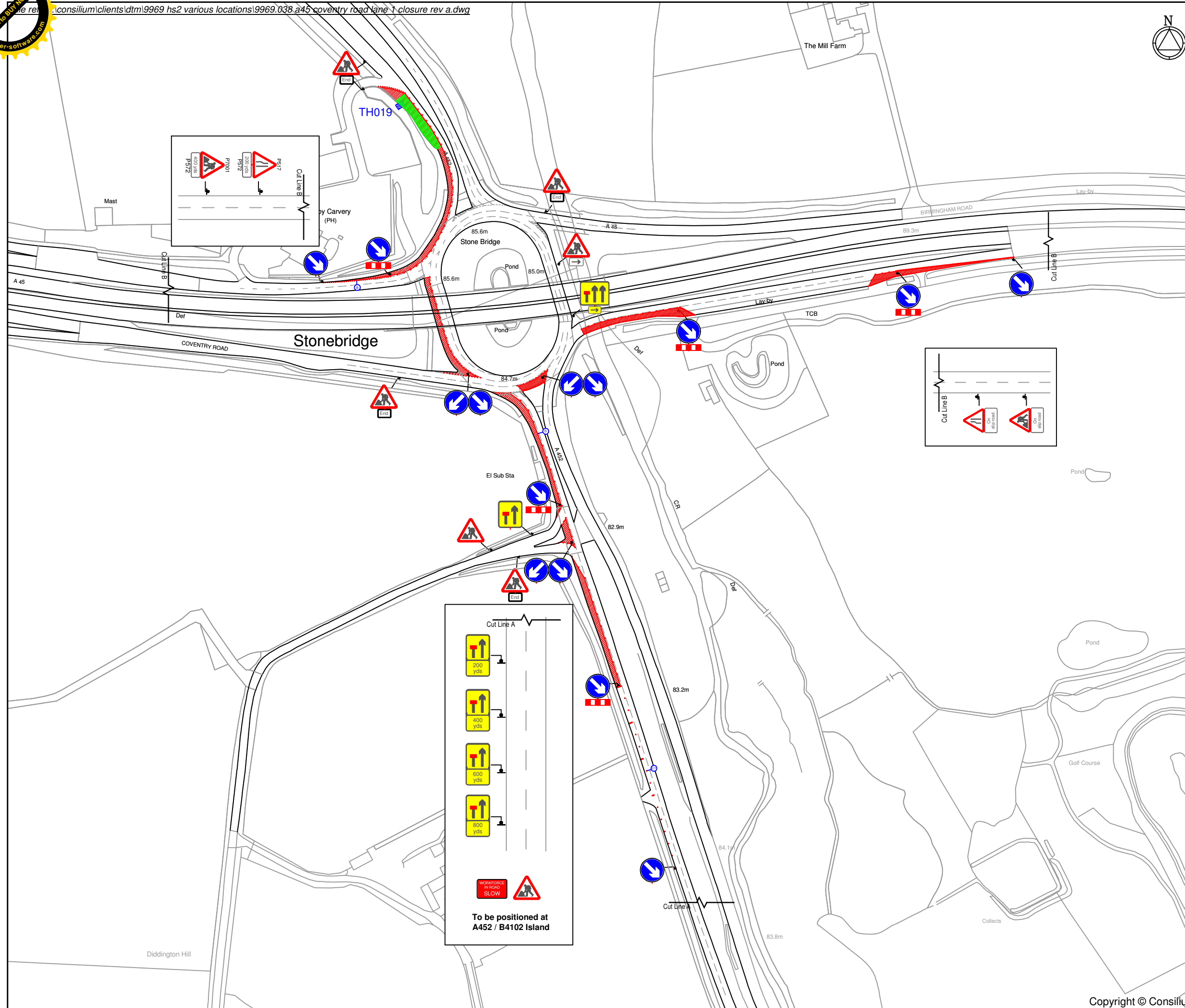
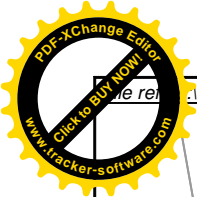
Project
**A45 COVENTRY ROAD JNC
 A452, BIRMINGHAM
 GRID REF: 421225, 283133**

Title
LANE 1 CLOSURE

WORK PACK 5

409 Tyburn Road, Birmingham, B24 8HJ - 0121 328 7266
 info@consilium-ts.co.uk - www.consilium-ts.co.uk

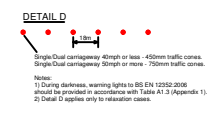
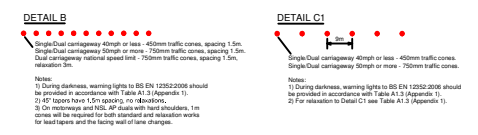
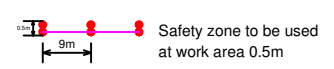
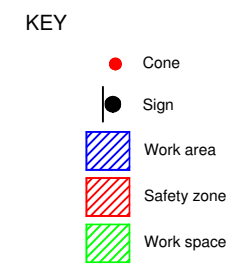
Design: KL	Drawn: DM	Chkd: KL
Date: 06/08/18	Date: 06/08/18	Date: 06/08/18
Scale: NTS @ A3	Status:	
Drawing No 9969.037	Rev: A	



- NOTES**
- All traffic signs shall comply with Chapter 6 of the Traffic Signs Manual.
 - All traffic management equipment shall be provided by the Contractor, unless otherwise specified.
 - All signs shall be positioned so as not to be obscured by any other objects and shall not obstruct any other sign, permanent or temporary as much as is reasonably practicable.
 - The minimum lateral clearance between any area in which work is being carried out and that part of the carriageway available to traffic shall be 0.5m for roads with a speed limit of 40 mph or less and 1.2m for motorways and roads with a speed limit of 50 mph or more.
 - All traffic signs shall meet the refectionisation requirements of BS 873 - Part 6: 1983, Table 1.
 - The permitted use of given types of closure shall be as specified.
 - Constraints on the use of given types of closure shall be as specified.
 - The lengths of tapers shown on the standard lane closure drawings are based on a basic lane width of 3.65m, rounded up to generally the nearest 5m. Where the actual lane width varies from this figure the following shall be used to calculate taper lengths:
 Single carriageway road (speed limit 30 mph or less) - Rate of Taper 1 in 13
 Single carriageway road (speed limit 40 mph) - Rate of Taper 1 in 20
 Single carriageway road (speed limit 50 mph or more) - Rate of Taper 1 in 25
 Dual carriageway road without Hard Shoulder (speed limit 40 mph or less) - Rate of Taper 1 in 25
 Dual carriageway road without Hard Shoulder (speed limit 50 mph or more) - Rate of Taper 1 in 32
 Dual carriageway road with Hard Shoulder (any speed limit) - Rate of Taper 1 in 55
 Motorway (any speed limit) - Rate of Taper 1 in 55



To be agreed on site



Rev	Description	By	Chkd	Date
A	Lane closure added.	AG	JW	21.08.18

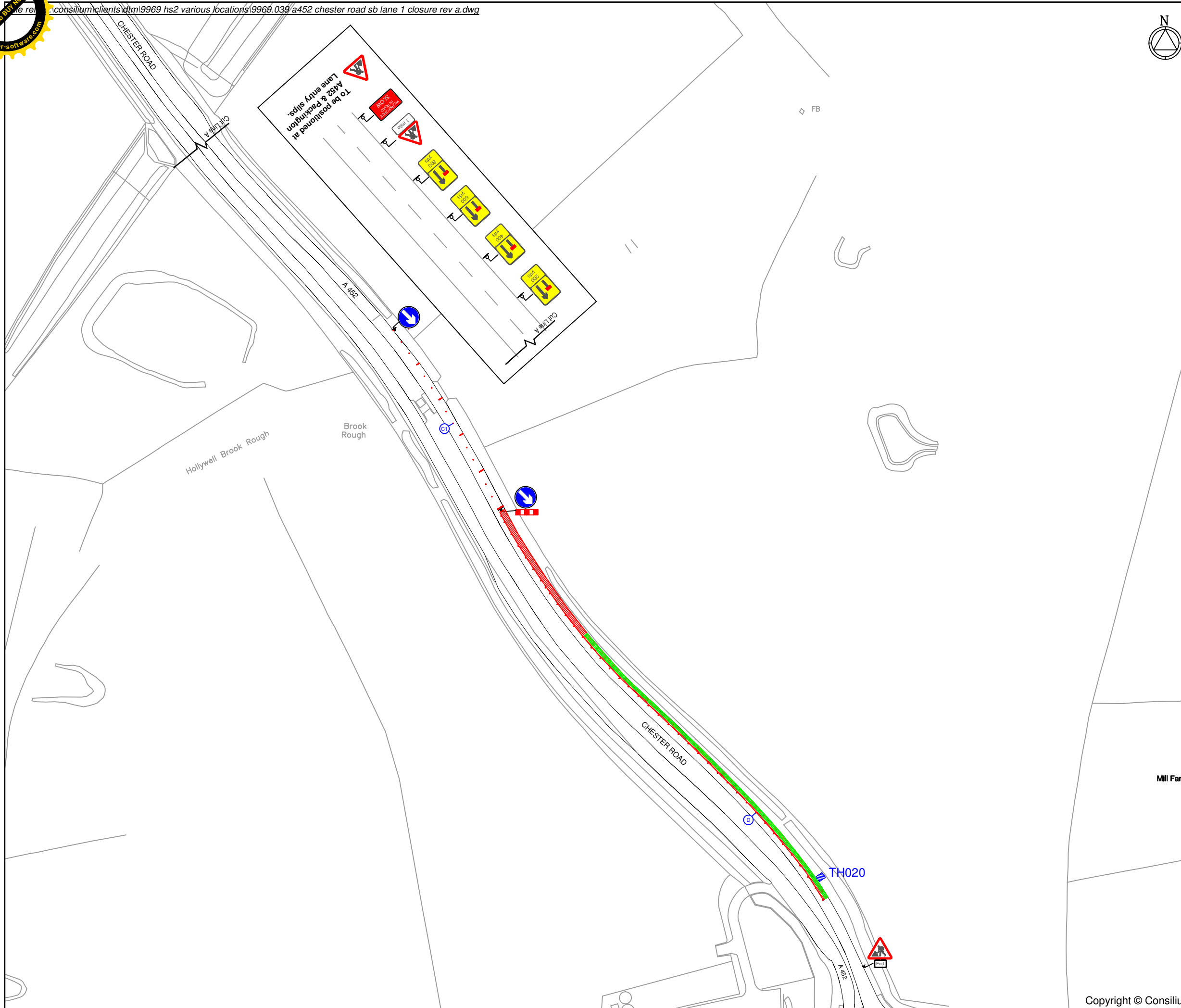
Client

Project
**A452 COVENTRY ROAD
 BIRMINGHAM
 GRID REF: 421299, 283256**

Title
**NORTHBOUND
 LANE 1 CLOSURE
 WORK PACK 5**

409 Tyburn Road, Birmingham, B24 8HJ - 0121 328 7266
 info@consilium-ts.co.uk - www.consilium-ts.co.uk

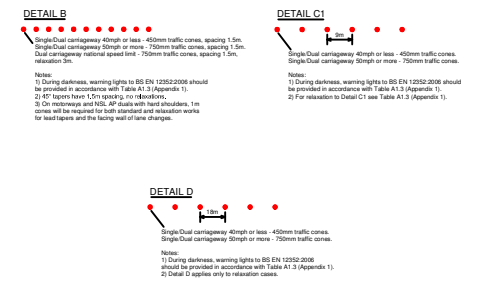
Design: KL	Drawn: DM	Chkd: KL
Date: 06/08/18	Date: 06/08/18	Date: 06/08/18
Scale: NTS @ A3	Status:	
Drawing No 9969.038	Rev: A	



- NOTES**
- All traffic signs shall comply with Chapter 6 of the Traffic Signs Manual.
 - All traffic management equipment shall be provided by the Contractor, unless otherwise specified.
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 - Single carriageway road (speed limit 50 mph or more) - Rate of Taper 1 in 25
 - Dual carriageway road without Hard Shoulder (speed limit 40 mph or less) - Rate of Taper 1 in 25
 - Dual carriageway road without Hard Shoulder (speed limit 50 mph or more) - Rate of Taper 1 in 32
 - Dual carriageway road with Hard Shoulder (any speed limit) - Rate of Taper 1 in 55
 - Motorway (any speed limit) - Rate of Taper 1 in 55



- KEY**
- Cone
 - Sign
 - Work area
 - Safety zone
 - Work space
- Safety zone to be used at work area 0.5m



Rev	Description	By	Chkd	Date
A	Hatching added.	AG	JW	21.08.18

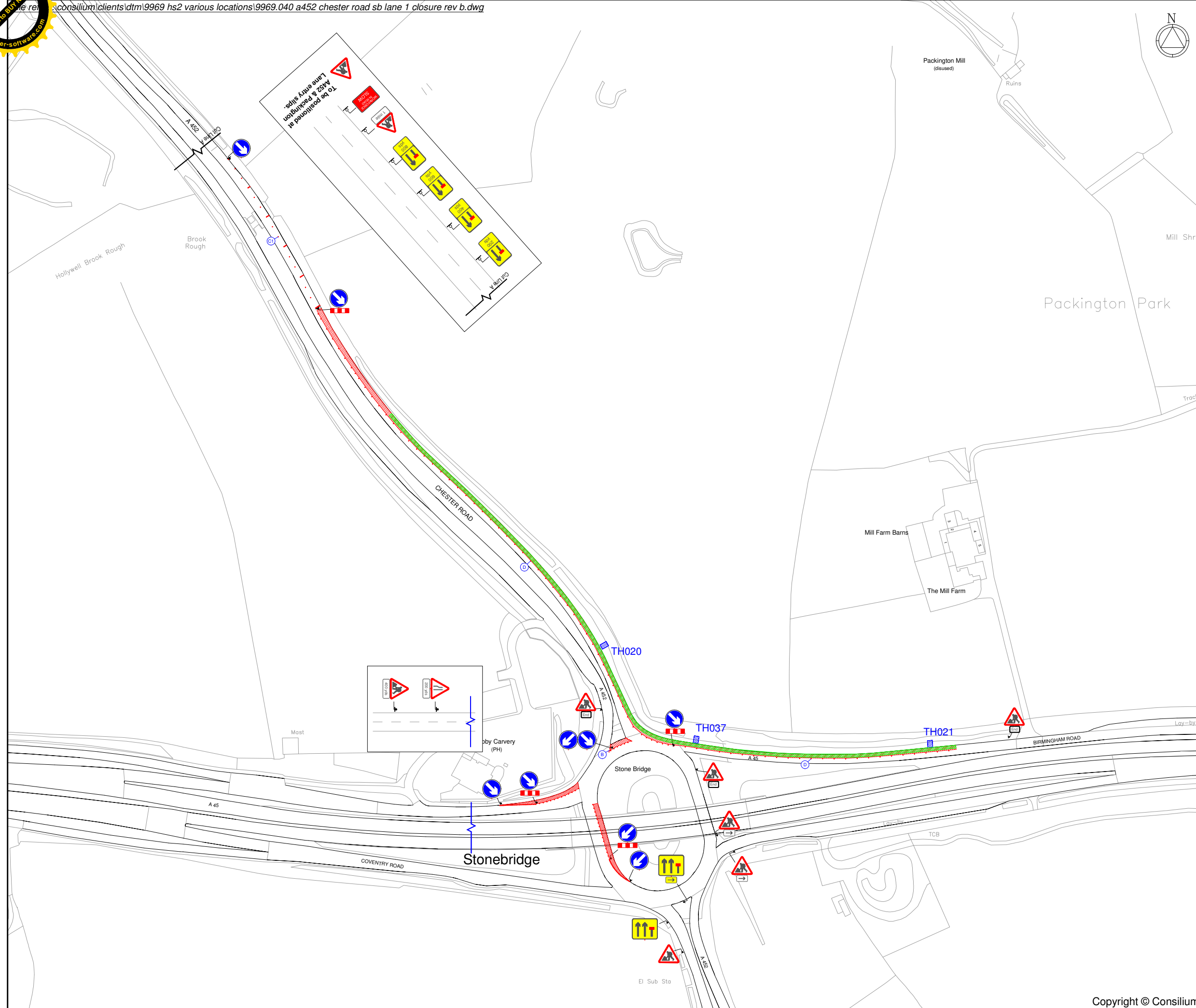
Client

Project
**A452 CHESTER ROAD
 BIRMINGHAM
 GRID REF: 421324, 283262**

Title
**SOUTHBOUND
 LANE 1 CLOSURE
 WORK PACK 5**

409 Tyburn Road, Birmingham, B24 8HJ - 0121 328 7266
 info@consilium-ts.co.uk - www.consilium-ts.co.uk

Design: KL	Drawn: DM	Chkd: KL
Date: 06/08/18	Date: 06/08/18	Date: 06/08/18
Scale: NTS @ A3	Status:	
Drawing No 9969.039	Rev: A	



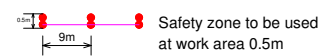
- NOTES**
- All traffic signs shall comply with Chapter 6 of the Traffic Signs Manual.
 - All traffic management equipment shall be provided by the Contractor, unless otherwise specified.
 - All signs shall be positioned so as not to be obscured by any other objects and shall not obstruct any other sign, permanent or temporary as much as is reasonably practicable.
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 - The lengths of tapers shown on the standard lane closure drawings are based on a basic lane width of 3.65m, rounded up to generally the nearest 5m. Where the actual lane width varies from this figure the following shall be used to calculate taper lengths:
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 Single carriageway road (speed limit 50 mph or more) - Rate of Taper 1 in 25
 Dual carriageway road without Hard Shoulder (speed limit 40 mph or less) - Rate of Taper 1 in 25
 Dual carriageway road without Hard Shoulder (speed limit 50 mph or more) - Rate of Taper 1 in 32
 Dual carriageway road with Hard Shoulder (any speed limit) - Rate of Taper 1 in 50
 Motorway (any speed limit) - Rate of Taper 1 in 55



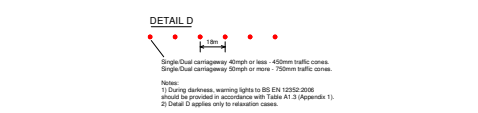
To be agreed on site

KEY

- Cone
- Sign
- Work area
- Safety zone
- Work space



Notes:
 1) During darkness, warning lights to BS EN 12352:2008 should be provided in accordance with Table A1.3 (Appendix 1).
 2) 45° tapered cones have 5.5m spacing, not 10m.
 3) On motorways and dual carriageways with hard shoulders, 1m cones will be required for both standard and retention works for hardeners and for kerbs and lane changes.



B	Wicket signs replaced to suit closure and men at work ends repositioned.	AG	JW	03.09.18
A	Hatched area and tapers added.	AG	JW	21.08.18
Rev	Description	By	Chkd	Date

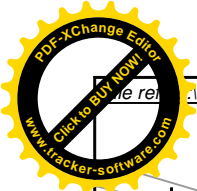
Client

Project
A452 CHESTER ROAD BIRMINGHAM
 GRID REF: 421324, 283262

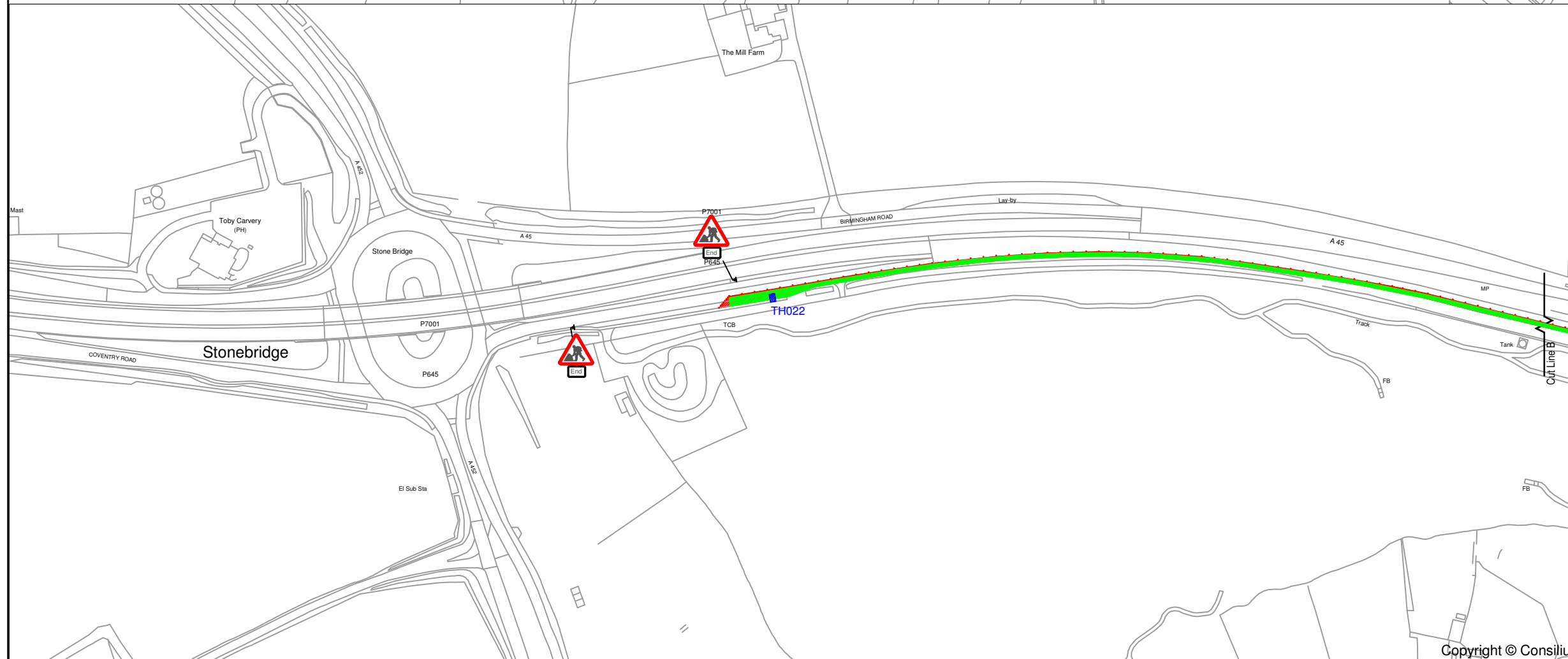
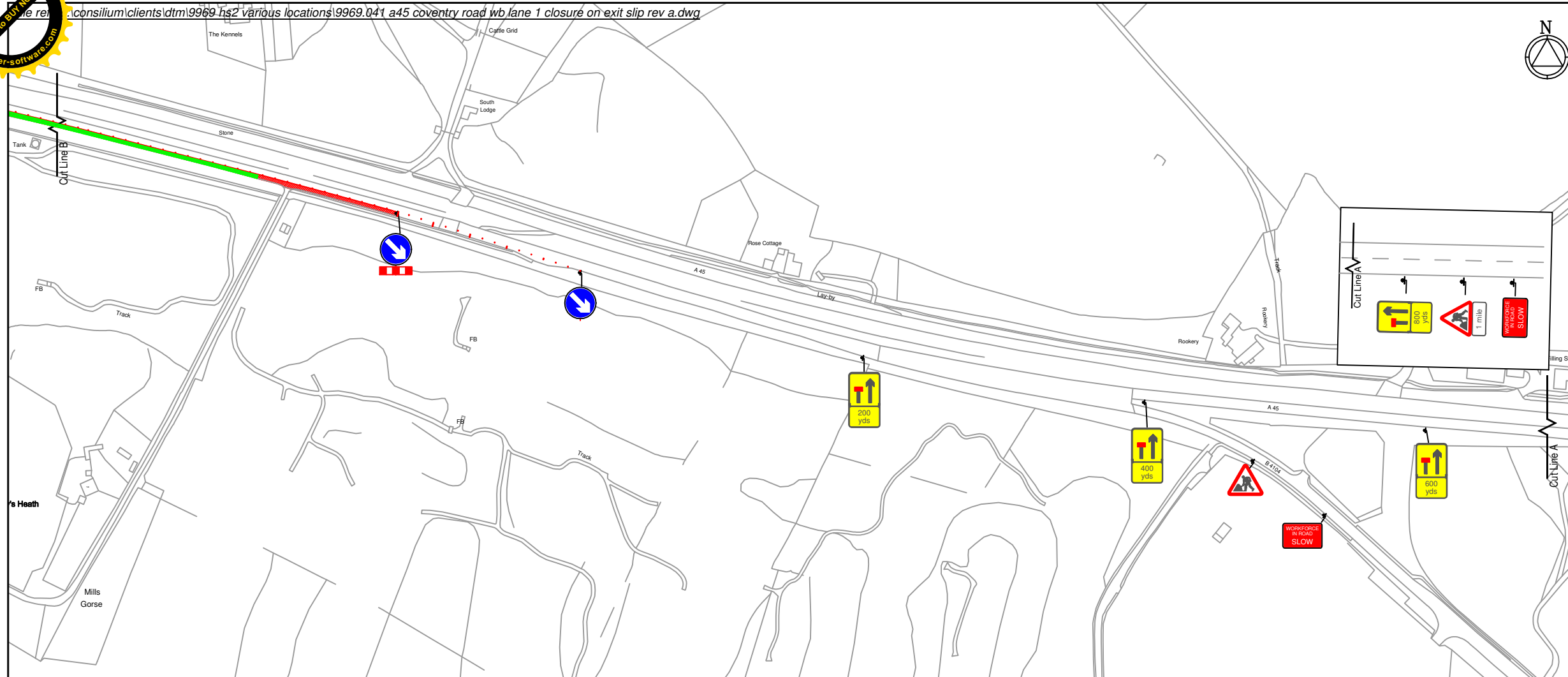
Title
SOUTHBOUND LANE 1 CLOSURE
WORK PACK 5

409 Tyburn Road, Birmingham, B24 8HJ - 0121 328 7266
 info@consilium-ts.co.uk - www.consilium-ts.co.uk

Design: KL	Drawn: DM	Chkd: KL
Date: 06/08/18	Date: 06/08/18	Date: 06/08/18
Scale: NTS @ A3	Status:	
Drawing No 9969.040	Rev: B	



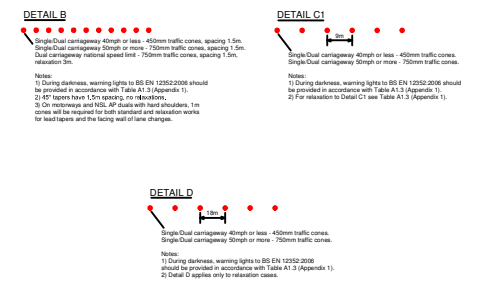
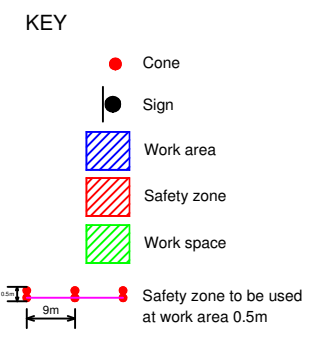
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- NOTES**
- All traffic signs shall comply with Chapter 6 of the Traffic Signs Manual.
 - All traffic management equipment shall be provided by the Contractor, unless otherwise specified.
 - All signs shall be positioned so as not to be obscured by any other objects and shall not obstruct any other sign, permanent or temporary as much as is reasonably practicable.
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 - All traffic signs shall meet the reflectorisation requirements of BS 873 - Part 6: 1983, Table 1.
 - The permitted use of given types of closure shall be as specified.
 - Constraints on the use of given types of closure shall be as specified.
 - The lengths of tapers shown on the standard lane closure drawings are based on a basic lane width of 3.65m, rounded up to generally the nearest 5m. Where the actual lane width varies from this figure the following shall be used to calculate taper lengths:
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 Single carriageway road (speed limit 40 mph or more) - Rate of Taper 1 in 20
 Single carriageway road (speed limit 50 mph or more) - Rate of Taper 1 in 25
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 Dual carriageway road without Hard Shoulder (speed limit 50 mph or more) - Rate of Taper 1 in 32
 Dual carriageway road with Hard Shoulder (any speed limit) - Rate of Taper 1 in 55
 Motorway (any speed limit) - Rate of Taper 1 in 55



To be agreed on site



Rev	Description	By	Chkd	Date
A	Hatched area added.	AG	JW	21.08.18

Client

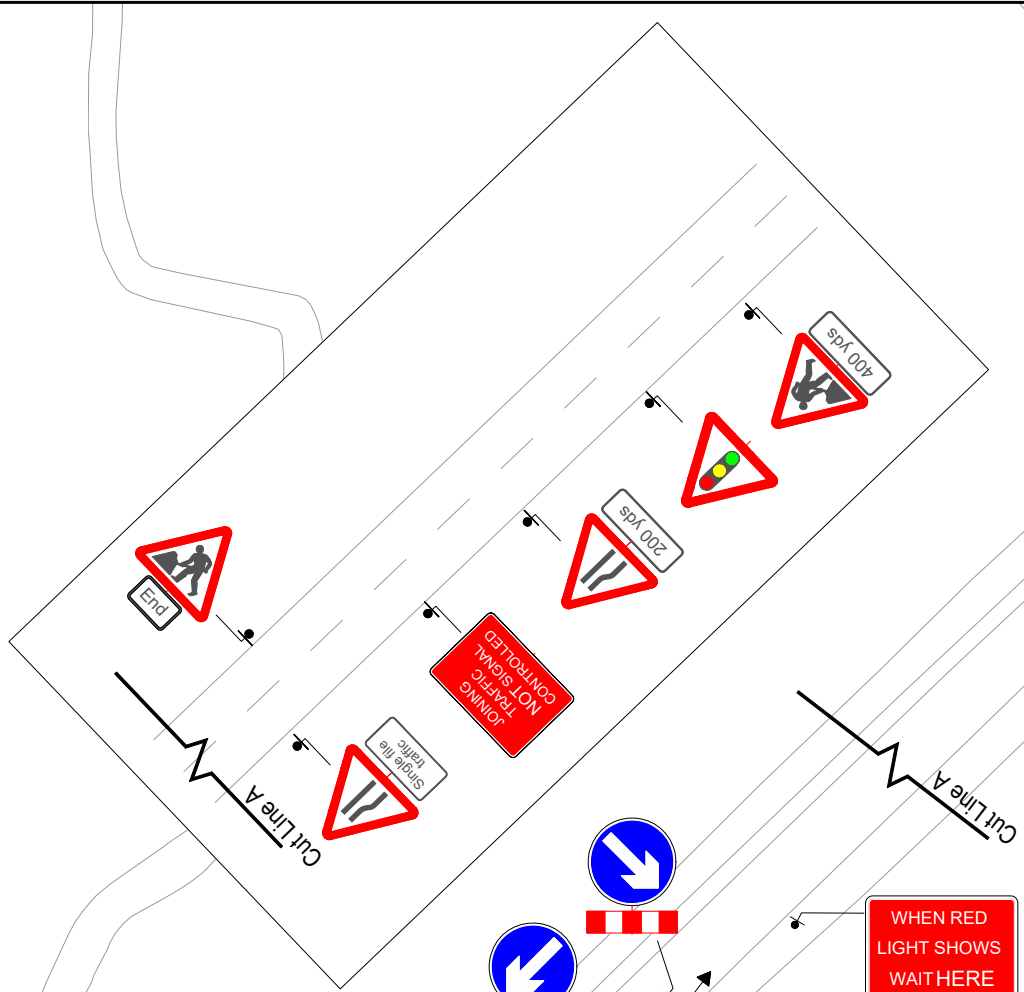
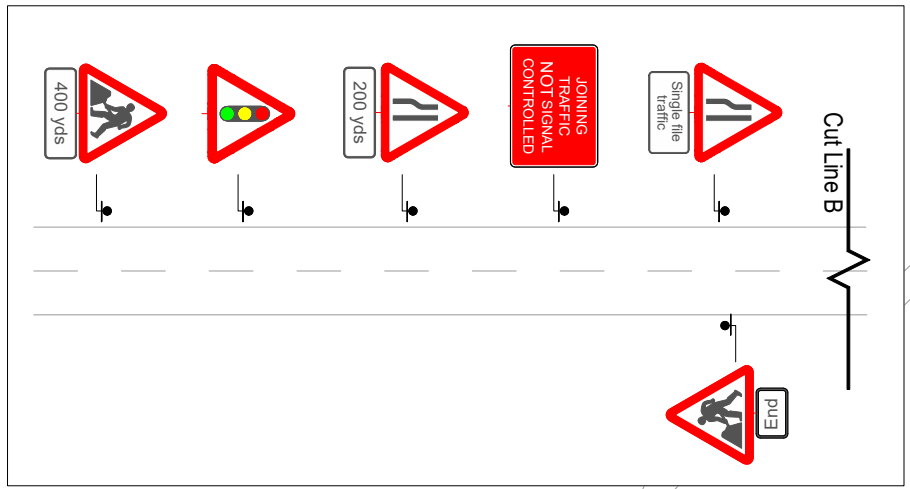
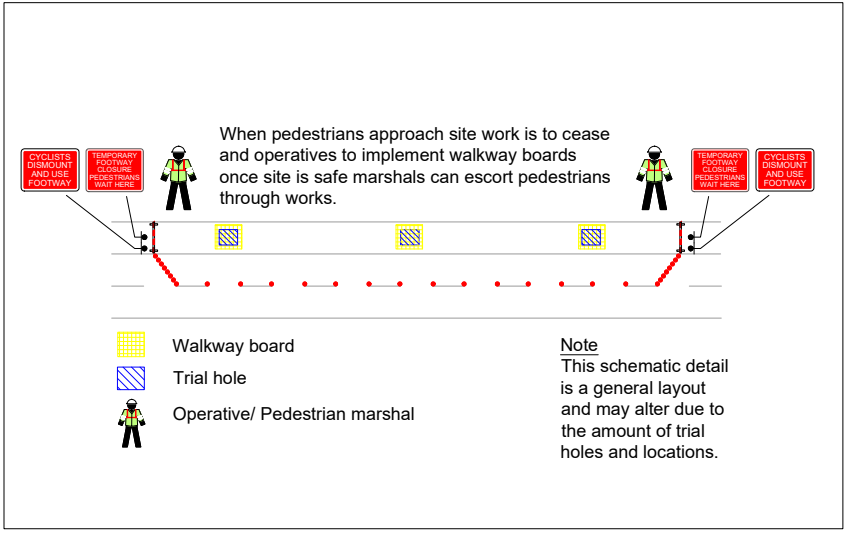
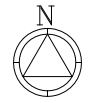
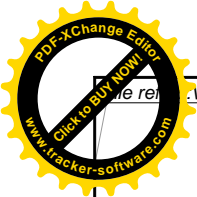
Project
**A45 COVENTRY ROAD
 BIRMINGHAM**
 GRID REF: 421634, 283133

Title
**WESTBOUND
 LANE 1 CLOSURE**
WORK PACK 5

409 Tyburn Road, Birmingham, B24 8HJ - 0121 328 7266
 info@consilium-ts.co.uk - www.consilium-ts.co.uk

Design: KL	Drawn: DM	Chkd: KL
Date: 06/08/18	Date: 06/08/18	Date: 06/08/18
Scale: NTS @ A3	Status:	
Drawing No 9969.041	Rev: A	

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NOTE
 Minimum 3.25m running lane to be maintained at all times.

NOTE
 Closure to be switched to suit ongoing works.

WORKS ACCESS **WORKS EXIT**

To be agreed on site

KEY

- Cone
- Sign
- ↑ Traffic light head
- ▨ Work area
- ▨ Safety zone
- ▨ Work space

DETAIL B

SingleDual carriageway 40mph or less - 450mm traffic cones, spacing 1.5m.
 SingleDual carriageway 50mph or more - 750mm traffic cones, spacing 1.5m.
 Dual carriageway national speed limit - 750mm traffic cones, spacing 1.5m, relaxation 3m.

Notes:
 1) During darkness, warning lights to BS EN 12352:2006 should be provided in accordance with Table A1.3 (Appendix 1).
 2) 45° tapers have 1.5m spacing, no reflections.
 3) On motorways and N&L AP Duas with hard shoulders, 1m cones will be required for both standard and relaxation works for lead tapers and the facing wall of lane changes.

DETAIL C1

SingleDual carriageway 40mph or less - 450mm traffic cones, spacing 1.5m.
 SingleDual carriageway 50mph or more - 750mm traffic cones, spacing 1.5m, relaxation 3m.

Notes:
 1) During darkness, warning lights to BS EN 12352:2006 should be provided in accordance with Table A1.3 (Appendix 1).
 2) For relaxation to Detail C1 see Table A1.3 (Appendix 1).

Rev	Description	By	Chkd	Date
C	Titled changed, additional signage added to side road, physical barrier added to the south approach and ped management schematic added.	AG	JW	03.09.18
B	Coned access removed and note added.	AG	JW	28.08.18
A	Hatched areas added, block board removed and access coned off.	AG	JW	20.08.18

Revisions

Client

Project
 A429 KENILWORTH ROAD,
 COVENTRY
 GRID REF: 430131, 273940

Title
 2 WAY TEMPORARY
 TRAFFIC LIGHTS
 WORK PACK 4B

409 Tyburn Road, Birmingham, B24 8HJ - 0121 328 7266
 info@consilium-ts.co.uk - www.consilium-ts.co.uk

Design: KL	Drawn: MD	Chkd: KL
Date: 09/08/18	Date: 09/08/18	Date: 09/08/18
Scale: NTS @ A3	Status: PROPOSED	
Drawing No 9969.043	Rev: C	

For exact location download the Highways Toolbox from App store.