A358 Taunton to Southfields Dualling Bat Activity surveys Technical Report Appendix F Part 3

PCF STAGE 2

HE551508-MMSJV-EBD-000-RP-LB-0051

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Date: July 2021

Version P04

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Highways England Project Manager:	Olivia Blok
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PCF STAGE 2	Mott MacDonald Sweco Joint Venture

Document control

Client	Highways England
Project	A358 Taunton to Southfields Dualling
Document title	A358 Bat Activity Surveys Technical Report
Job no.	HE551508
Document reference	HE551508-000-RP-LP-0051

Revision history

Job number: HE551508			Document ref: HE5551508-MMSJV-EBD-000-RP-LB-0051			
Revision	Purpose description	Originator	Checked	Approved	Authorised	Date
P01	First Revision	D. Byett A. Evans	S. Mason	K. Atkinson	E. Rapa	11.01.2021
P02	Updated following comments	D. Byett	S. Mason	K. Atkinson	E. Rapa	03.03.2021
P03	Updated following comments	A. Evans	D. Byett	K. Atkinson	E. Rapa	24.06.2021
P04	Updated following comments	D. Byett	S. Mason	K. Atkinson	E. Rapa	12.07.2021

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Prepared by:

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NTS

0 170 340 510 m

REV.	DATE	AMENDMENT DETAILS	ORIG	CHK'D	APP'D
P1	18/03/2021	Suitable for Stage Approval	ER	SM	ER

Notes

Pink Modified Scheme, Mott MacDonald (2018)
Transect and static locations, Mott MacDonald (2017-2020)

Service Layer Credits: Source: Esri, Maxar, GeoEye, Earthstar Geographics,

Key to symbols

- Pink modified scheme option
- Transect 4
- 250m buffer

Results

- No value
- Low
- High

References drawings

Drawing Status: Suitable for Stage Approval

Suitability: S4

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Client: highways england

Project Title: A358 Taunton to Southfields

Drawing Title: Transect Results: Kernel Density
Transect 4
Lesser Horseshoe

Scale	Designed	Drawn	Checked	Approved
NTS	DB	ER	SM	ER
Original Size: A1	Date: 18/03/2021	Date: 18/03/2021	Date: 18/03/2021	Date: 18/03/2021

Drawing Number: HE551508 - MMSJV - EBD - 000 - DR - LB - 0206
(HE PIN | Originator | Volume | Location | Type | Role | Number)

Project Ref. No.: 370774

Revision: P1

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NTS

0 150 300 m

REV.	DATE	AMENDMENT DETAILS	ORIG	CHK'D	APP'D
P1	18/03/2021	Suitable for Stage Approval	ER	SM	ER

Notes

Pink Modified Scheme, Mott MacDonald (2018)
Transect results, Mot MacDonald (2020)

Service Layer Credits: Source: Esri, Maxar, GeoEye, Earthstar Geographics,

Key to symbols

- Pink modified scheme option
- Transect 5
- 100m buffer

Results

- No value
- Low
- High

References drawings

Drawing Status: Suitable for Stage Approval

Suitability: S4

Project Title: A358 Taunton to Southfields

Drawing Title: Transect Results: Kernel Density
Transect 5
All Species

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Client: highways england

Scale	Designed	Drawn	Checked	Approved
NTS	DL	ER	SM	ER
Original Size: A1	Date: 18/03/2021	Date: 18/03/2021	Date: 18/03/2021	Date: 18/03/2021

Drawing Number: HE551508 - MMSJV - EBD - 000 - DR - LB - 0207
(HE PIN | Originator | Volume | Location | Type | Role | Number)

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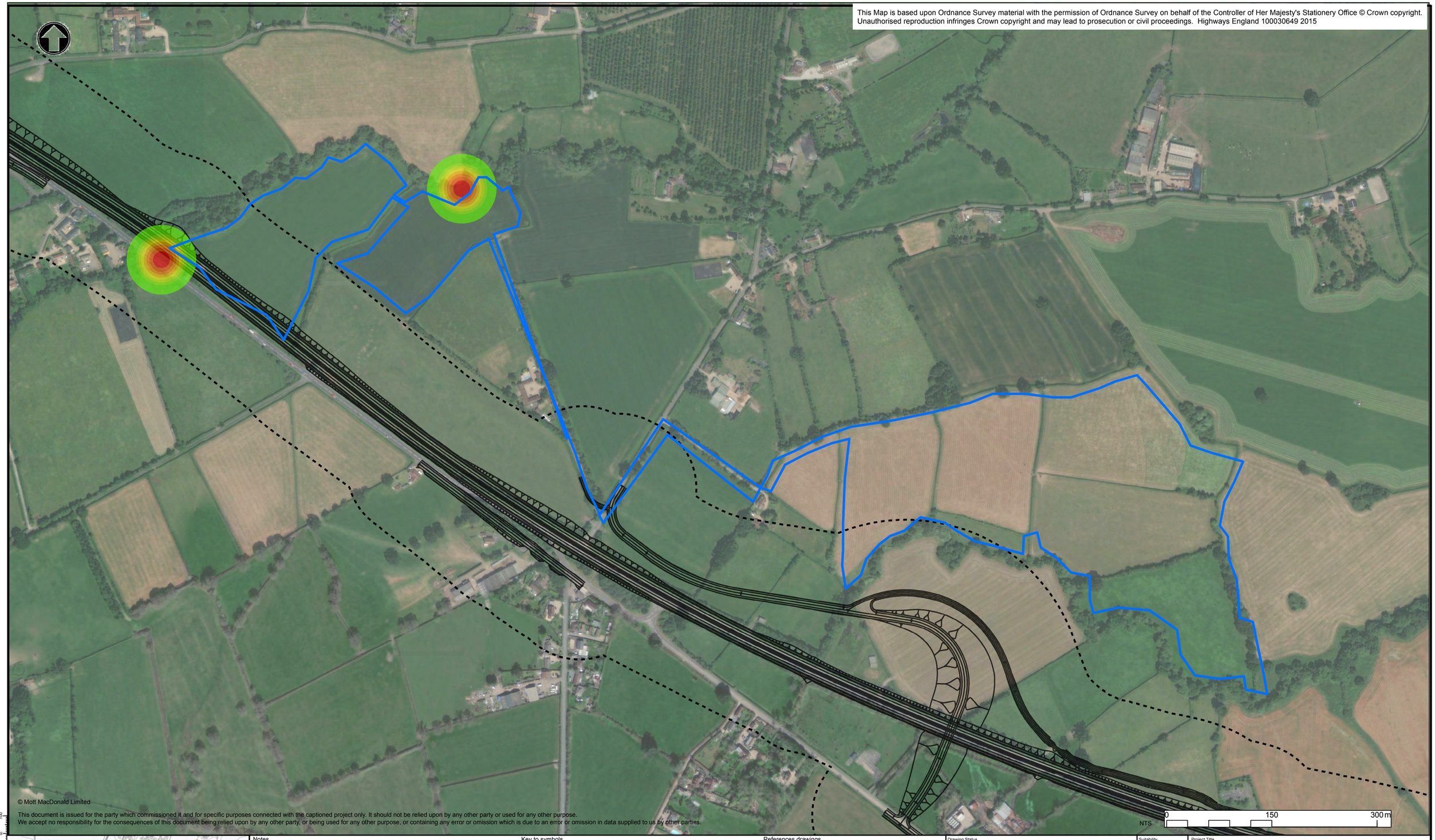

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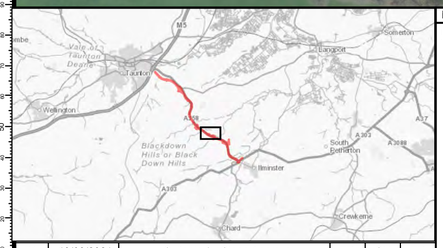

REV.	DATE	AMENDMENT DETAILS	ORIG	CHK'D	APP'D
P1	18/03/2021	Suitable for Stage Approval	ER	SM	ER

Notes

Pink Modified Scheme, Mott MacDonald (2018)
Transect results, Mot MacDonald (2020)

Service Layer Credits: Source: Esri, Maxar, GeoEye, Earthstar Geographics,

Key to symbols

- Pink modified scheme option
- Transect 5
- 100m buffer

Results

- No value
- Low
- High

References drawings

Drawing Status: Suitable for Stage Approval

Suitability: S4

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Client: highways england

Project Title: A358 Taunton to Southfields

Drawing Title: Transect Results: Kernel Density
Transect 5
Barbastelle

Scale	Designed	Drawn	Checked	Approved
NTS	DL	ER	SM	ER
Original Size: A1	Date: 18/03/2021	Date: 18/03/2021	Date: 18/03/2021	Date: 18/03/2021

Drawing Number: HE551508 - MMSJV - EBD - 000 - DR - LB - 0208
(HE PIN | Originator | Volume | Location | Type | Role | Number)

Project Ref. No.: 370774

Revision: P1

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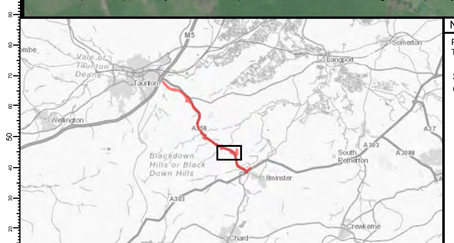
NTS

0 190 380 m



REV.	DATE	AMENDMENT DETAILS	ORIG	CHK'D	APP'D
P1	18/03/2021	Suitable for Stage Approval	ER	SM	ER

Notes

Pink Modified Scheme, Mott MacDonald (2018)
Transect results, Mot MacDonald (2020)

Service Layer Credits: Source: Esri, Maxar, GeoEye, Earthstar Geographics,

Key to symbols

- Pink modified scheme option
- Transect 6
- 100m buffer

Result

- No value
- Low
- High

References drawings

Drawing Status: Suitable for Stage Approval

Suitability: S4

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Client: highways england

Project Title: A358 Taunton to Southfields

Drawing Title: Transect Results: Kernel Density
Transect 6
All Species

Scale	Designed	Drawn	Checked	Approved
NTS	DL	ER	SM	ER
Original Size	Date	Date	Date	Date
A1	18/03/2021	18/03/2021	18/03/2021	18/03/2021

Drawing Number

HE PIN	Originator	Volume	Type	Role	Number	Location
HE551508 -	MMSJV	- EBD -	- DR -	LB -	0209	000

Project Ref. No.: 370774

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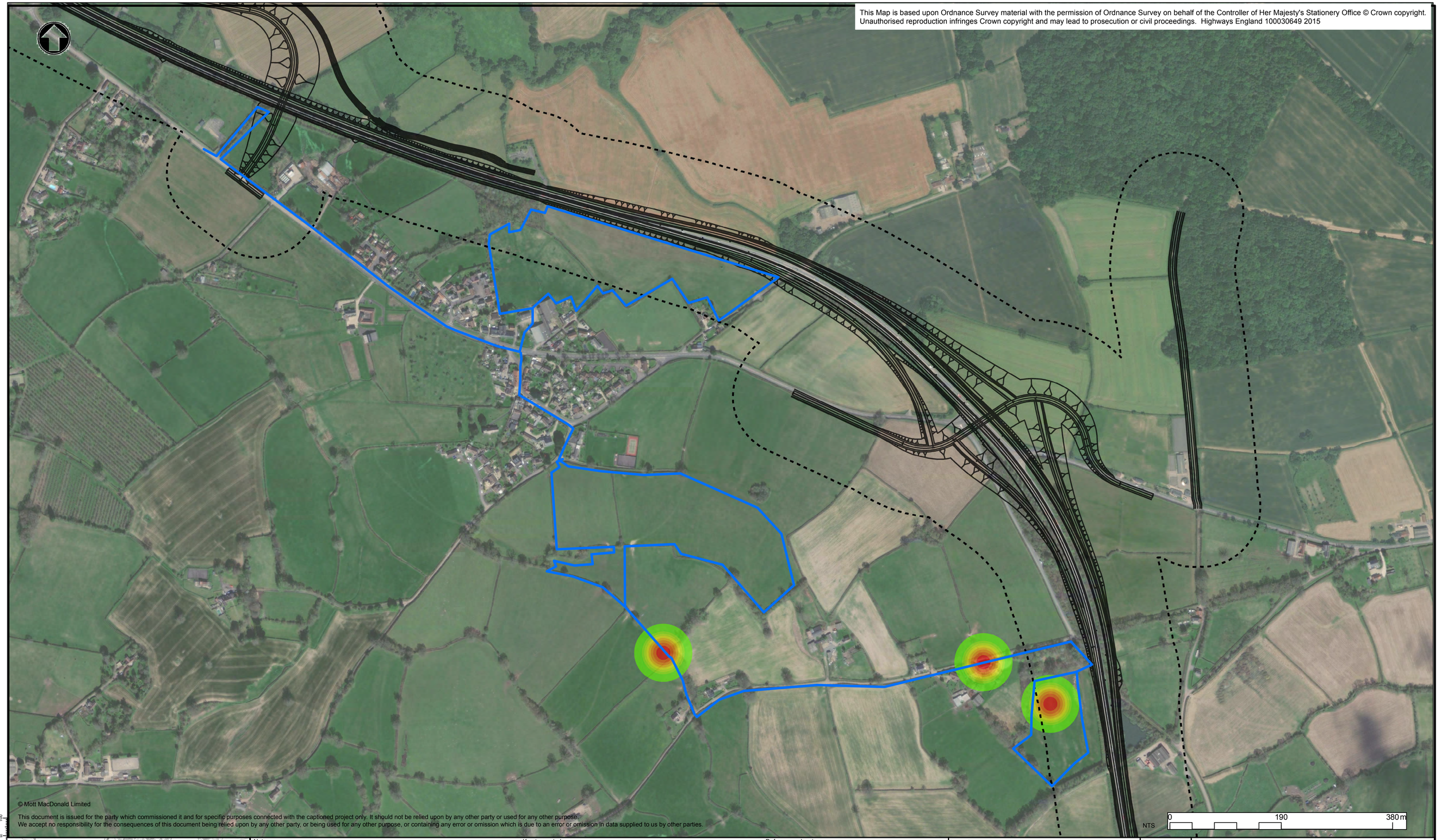

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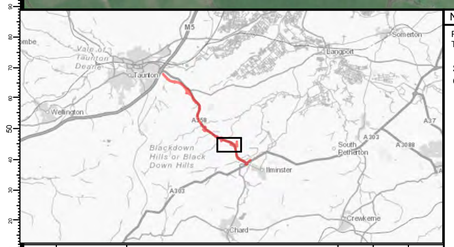

REV.	DATE	AMENDMENT DETAILS	ORIG	CHK'D	APP'D
P1	18/03/2021	Suitable for Stage Approval	ER	SM	ER

Notes

Pink Modified Scheme, Mott MacDonald (2018)
Transect results, Mot MacDonald (2020)

Service Layer Credits: Source: Esri, Maxar, GeoEye, Earthstar Geographics,

Key to symbols

- Pink modified scheme option
- 100m buffer
- Transect 6

Result

- No value
- Low
- High

References drawings

Drawing Status: Suitable for Stage Approval

Suitability: S4

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Project Title: A358 Taunton to Southfields

Drawing Title: Transect Results: Kernel Density
Transect 6
Barbastelle

Scale	Designed	Drawn	Checked	Approved
NTS	DL	ER	SM	ER
Original Size	Date	Date	Date	Date
A1	18/03/2021	18/03/2021	18/03/2021	18/03/2021

Drawing Number
HE PIN | Originator | Volume
HE551508 - MMSJV - EBD -
000 - DR - LB - 0210
Location | Type | Role | Number

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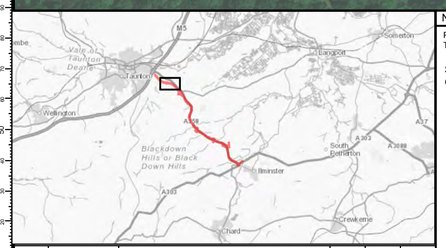
NTS

0 150 300 m



REV.	DATE	AMENDMENT DETAILS	ORIG	CHK'D	APP'D
P1	18/03/2021	Suitable for Stage Approval	ER	SM	ER

Notes

Pink Modified Scheme, Mott MacDonald (2018)
Transect results, Mot MacDonald (2020)

Service Layer Credits: Source: Esri, Maxar, GeoEye, Earthstar Geographics,

Key to symbols

- Pink modified scheme option
- Transect 8
- 100m buffer

Result

- No value
- Low
- High

References drawings

Drawing Status: Suitable for Stage Approval

Suitability: S4

Project Title: A358 Taunton to Southfields

Drawing Title: Transect Results: Kernel Density
Transect Route 8
All Species

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Client: highways england

Scale	Designed	Drawn	Checked	Approved
NTS	DL	ER	SM	ER
Original Size	Date	Date	Date	Date
A1	18/03/2021	18/03/2021	18/03/2021	18/03/2021

Drawing Number
HE PIN | Originator | Volume
HE551508 - MMSJV - EBD -
000 - DR - LB - 0211
Location | Type | Role | Number

Project Ref. No. 370774

Revision P1

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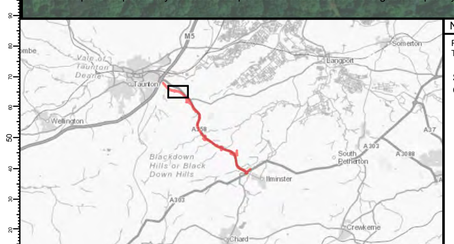
NTS

0 150 300 m



REV.	DATE	AMENDMENT DETAILS	ORIG	CHK'D	APP'D
P1	18/03/2021	Suitable for Stage Approval	ER	SM	ER

Notes

Pink Modified Scheme, Mott MacDonald (2018)
Transect results, Mot MacDonald (2020)

Service Layer Credits: Source: Esri, Maxar, GeoEye, Earthstar Geographics,

Key to symbols

- Pink modified scheme option
- Transect 8
- 100m buffer

Result

- No value
- Low
- High

References drawings

Drawing Status: Suitable for Stage Approval

Suitability: S4

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Client: highways england

Project Title: A358 Taunton to Southfields

Drawing Title: Transect Results: Kernel Density
Transect Route 8
Barbastelle

Scale	Designed	Drawn	Checked	Approved
NTS	DL	ER	SM	ER
Original Size: A1	Date: 18/03/2021	Date: 18/03/2021	Date: 18/03/2021	Date: 18/03/2021

Drawing Number: HE551508 - MMSJV - EBD - 000 - DR - LB - 0212
(HE P/N | Originator | Volume | Location | Type | Role | Number)

Project Ref. No.: 370774

Revision: P1

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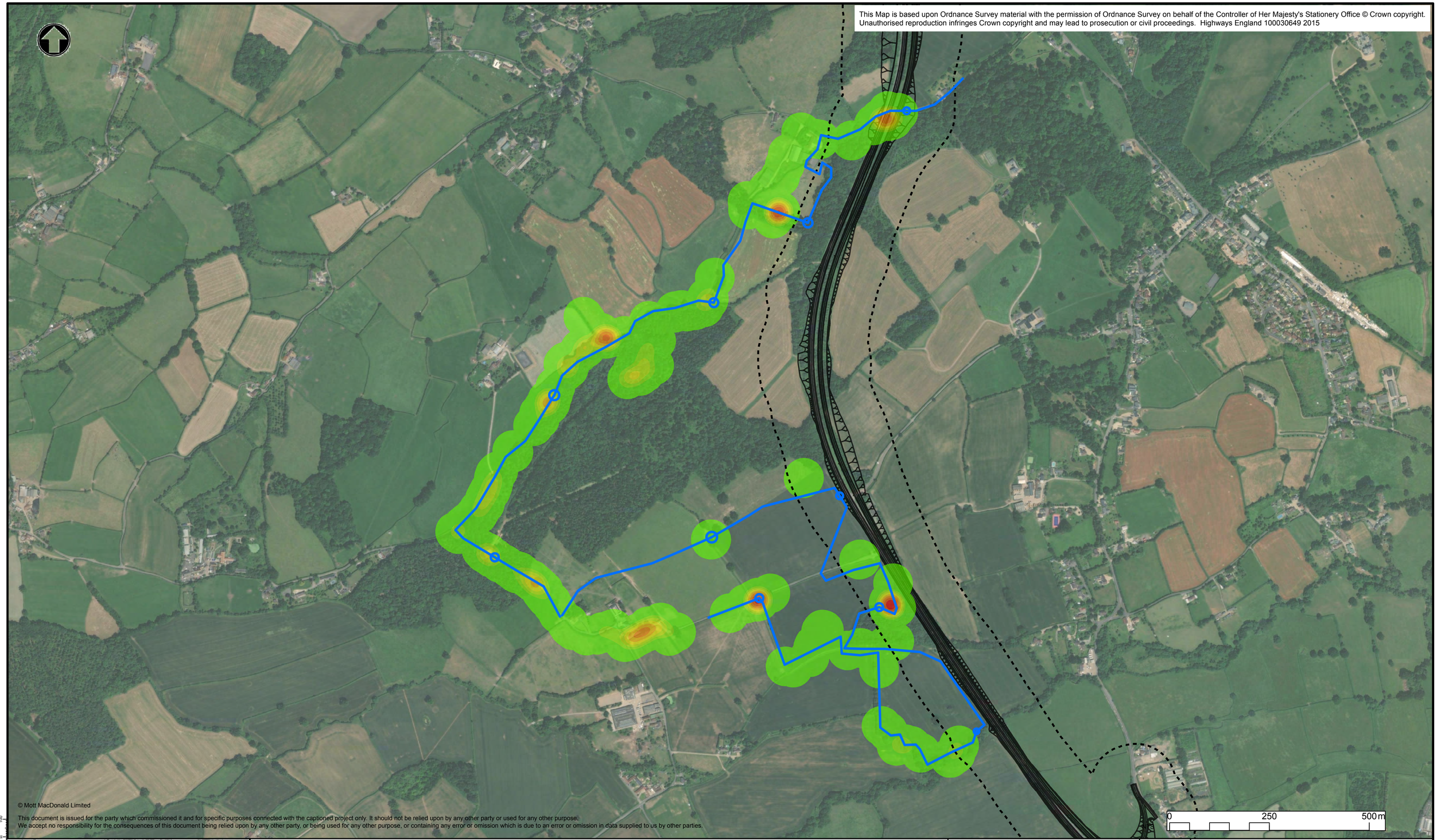

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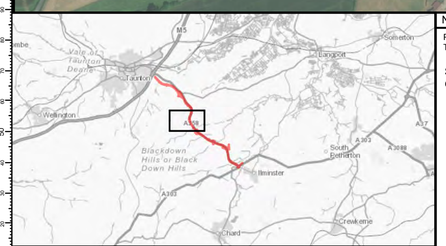

REV.	DATE	AMENDMENT DETAILS	ORIG	CHK'D	APP'D
P1	18/03/2021	Suitable for Stage Approval	ER	SM	ER

Notes

Pink Modified Scheme, Mott MacDonald (2018)
Transect results, Mot MacDonald (2020)

Service Layer Credits: Source: Esri, Maxar, GeoEye, Earthstar Geographics,

Key to symbols

- Pink modified scheme option
- Transect 9
- 100m buffer

Result

- No value
- Low
- High

References drawings

Drawing Status	Suitable for Stage Approval
Suitability	S4
Project Title	A358 Taunton to Southfields
Drawing Title	Transect Results: Kernel Density Transect Route 9 All Species

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Client: highways england

Scale	Designed	Drawn	Checked	Approved
NTS	DL	ER	SM	ER
Original Size: A1	Date: 18/03/2021	Date: 18/03/2021	Date: 18/03/2021	Date: 18/03/2021

Drawing Number
HE PIN | Originator | Volume
HE551508 - MMSJV - EBD -
000 - DR - LB - 0213
Location | Type | Role | Number

Project Ref. No.: 370774

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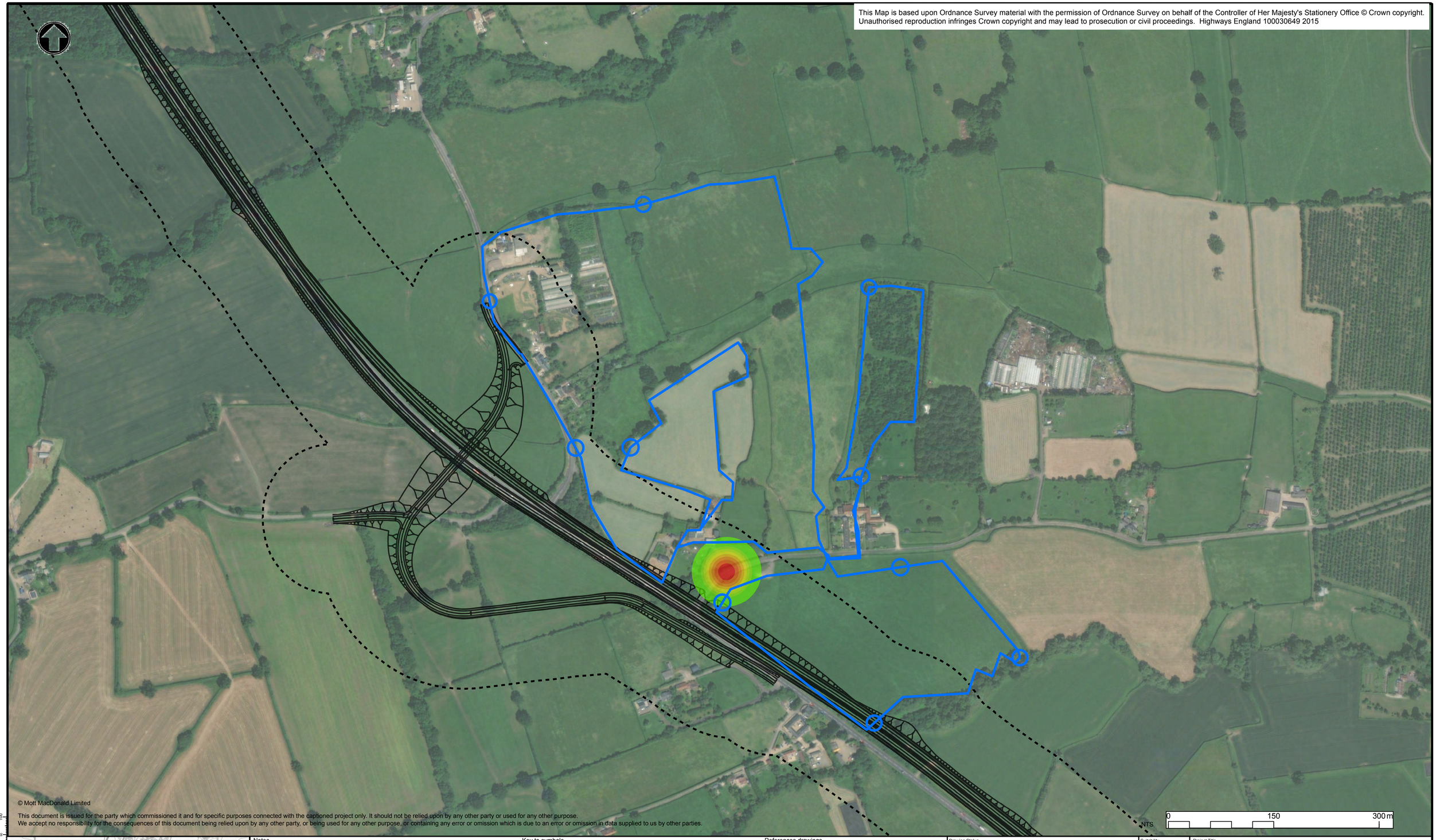

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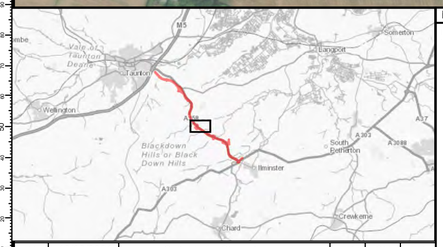

REV.	DATE	AMENDMENT DETAILS	ORIG	CHK'D	APP'D
P1	18/03/2021	Suitable for Stage Approval	ER	SM	ER

Notes

Pink Modified Scheme, Mott MacDonald (2018)
Transect results, Mot MacDonald (2020)

Service Layer Credits: Source: Esri, Maxar, GeoEye, Earthstar Geographics,

Key to symbols

- Pink modified scheme option
- Transect 10
- 100m buffer

Result

- No value
- Low
- High

References drawings

Drawing Status: Suitable for Stage Approval

Suitability: S4

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Client: highways england

Project Title: A358 Taunton to Southfields

Drawing Title: Transect Results: Kernel Density
Transect Route 10
Barbastelle

Scale	Designed	Drawn	Checked	Approved
NTS	DL	ER	SM	ER
Original Size: A1	Date: 18/03/2021	Date: 18/03/2021	Date: 18/03/2021	Date: 18/03/2021

Drawing Number: HE551508 - MMSJV - EBD - 000 - DR - LB - 0216
(HE PIN | Originator | Volume | Location | Type | Role | Number)

Project Ref. No.: 370774

Revision: P1

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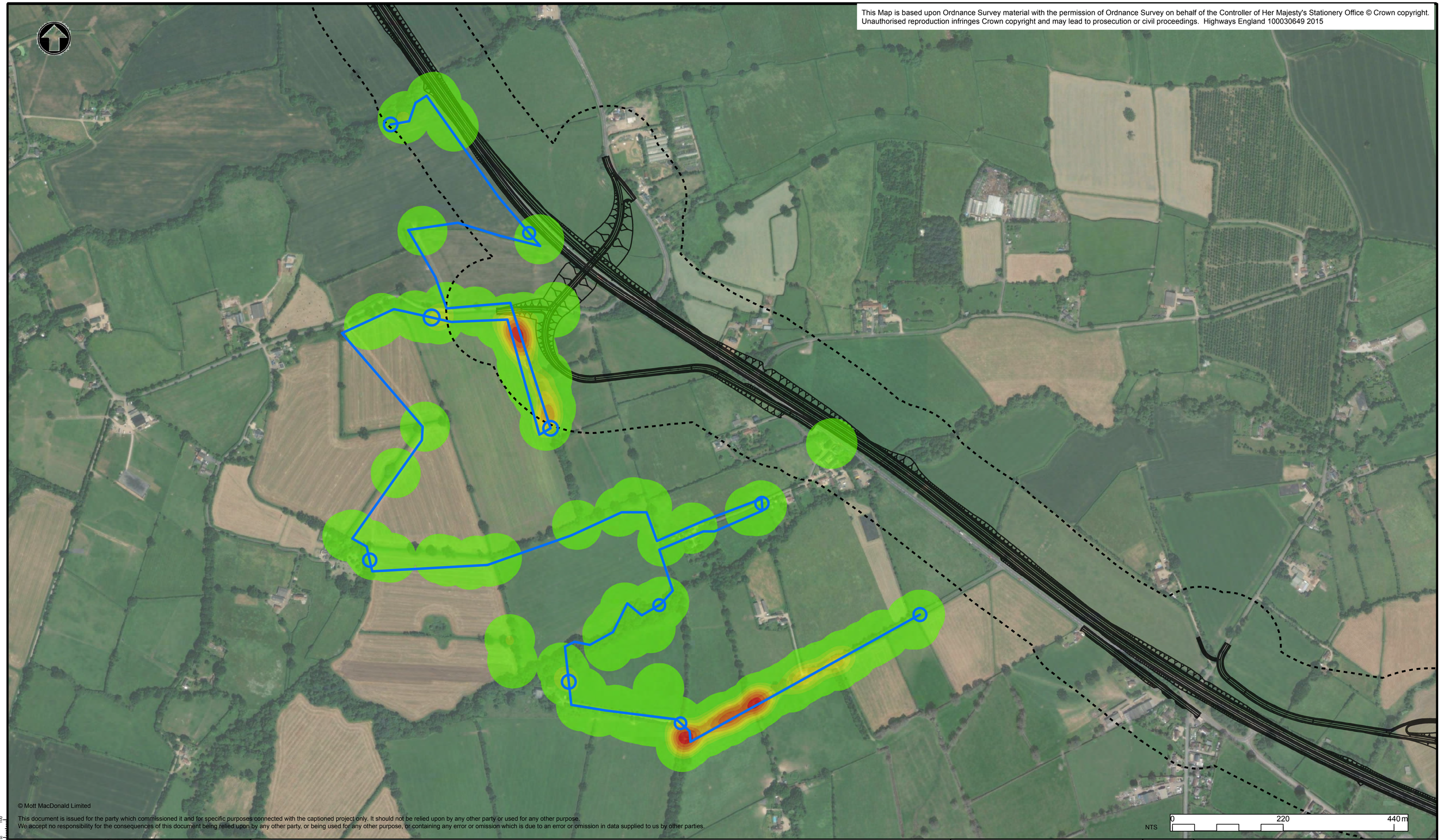

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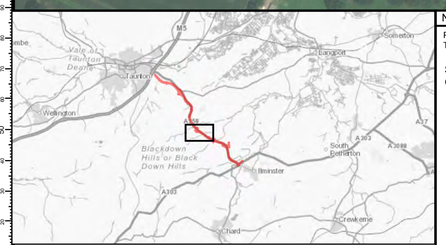

REV.	DATE	AMENDMENT DETAILS	ORIG	CHK'D	APP'D
P1	18/03/2021	Suitable for Stage Approval	ER	SM	ER

Notes

Pink Modified Scheme, Mott MacDonald (2018)
Transect results, Mot MacDonald (2020)

Service Layer Credits: Source: Esri, Maxar, GeoEye, Earthstar Geographics,

Key to symbols

- Pink modified scheme option
- Transect 11
- 100m buffer

Result

- No value
- Low
- High

References drawings

Drawing Status: Suitable for Stage Approval

Suitability: S4

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Client: highways england

Project Title: A358 Taunton to Southfields

Drawing Title: Transect Results: Kernel Density
Transect 11
All Species

Scale	Designed	Drawn	Checked	Approved
NTS	DL	ER	SM	ER
Original Size: A1	Date: 18/03/2021	Date: 18/03/2021	Date: 18/03/2021	Date: 18/03/2021

Drawing Number: HE551508 - MMSJV - EBD - 000 - DR - LB - 0217
(HE PIN | Originator | Volume | Location | Type | Role | Number)

Project Ref. No.: 370774

Revision: P1

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NTS

0 220 440 m

REV.	DATE	AMENDMENT DETAILS	ORIG	CHK'D	APP'D
P1	18/03/2021	Suitable for Stage Approval	ER	SM	ER

Notes

Pink Modified Scheme, Mott MacDonald (2018)
Transect results, Mot MacDonald (2020)

Service Layer Credits: Source: Esri, Maxar, GeoEye, Earthstar Geographics,

Key to symbols

- Pink modified scheme option
- 100m buffer
- Transect 11

Result

- No value
- Low
- High

References drawings

Drawing Status: Suitable for Stage Approval

Suitability: S4

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SO50 9NW

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www.mottmac.com

Client: highways england

Project Title: A358 Taunton to Southfields

Drawing Title: Transect Results: Kernel Density
Transect 11
Barbastelle

Scale	Designed	Drawn	Checked	Approved
NTS	DL	ER	SM	ER
Original Size	Date	Date	Date	Date
A1	18/03/2021	18/03/2021	18/03/2021	18/03/2021

Drawing Number
HE PIN | Originator | Volume
HE551508 - MMSJV - EBD -
000 - DR - LB - 0218
Location | Type | Role | Number

Project Ref. No.: 370774

Revision: P1

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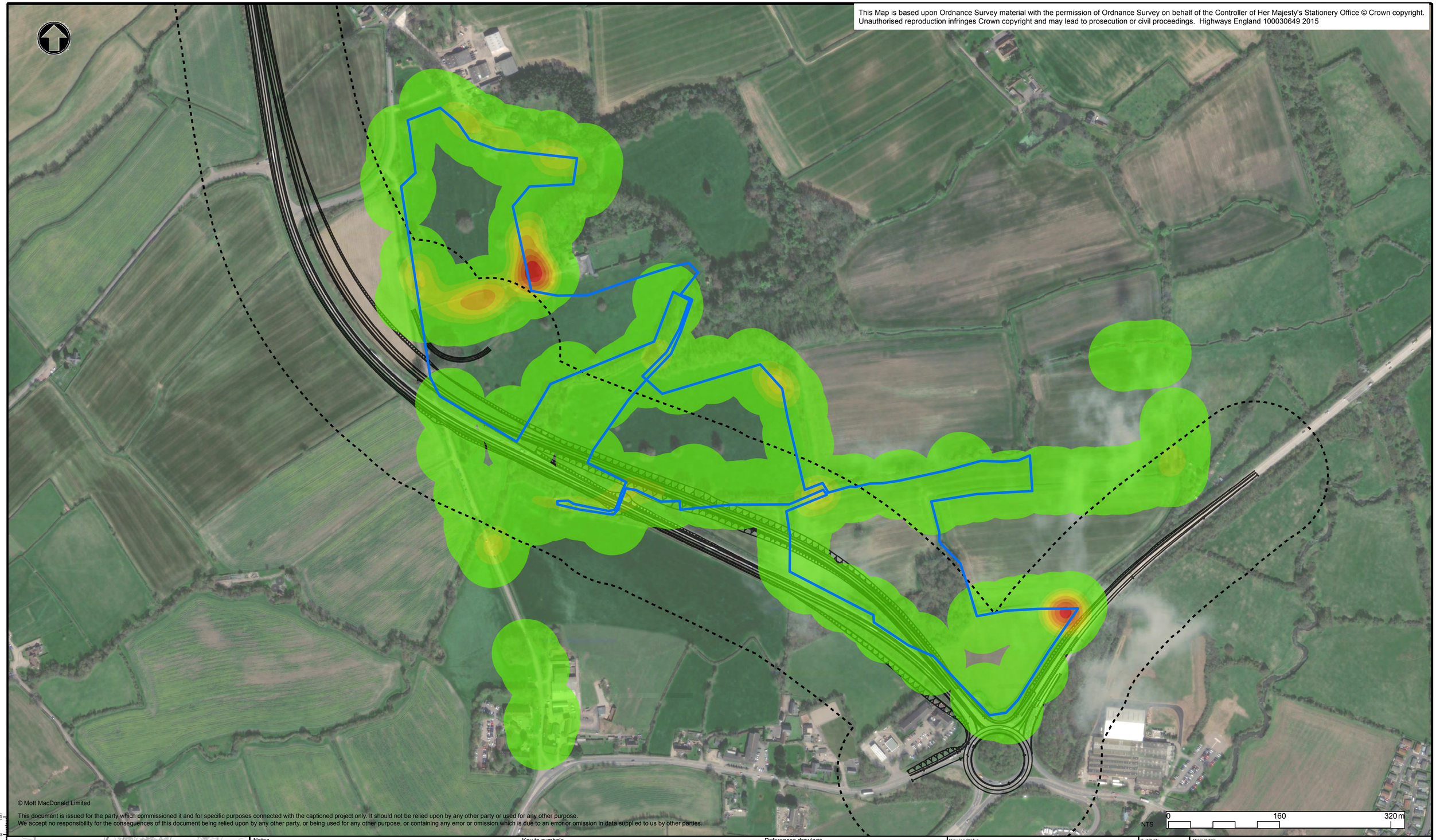

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REV.	DATE	AMENDMENT DETAILS	ORIG	CHK'D	APP'D
P1	18/03/2021	Suitable for Stage Approval	ER	SM	ER

Notes

Pink Modified Scheme, Mott MacDonald (2018)
Transect results, Mot MacDonald (2020)

Service Layer Credits: Source: Esri, Maxar, GeoEye, Earthstar Geographics,

Key to symbols

- Pink modified scheme option
- 100m buffer
- Transect 12

Result

- No value
- Low
- High

References drawings

Drawing Status: Suitable for Stage Approval

Suitability: S4

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Client: highways england

Project Title: A358 Taunton to Southfields

Drawing Title: Transect Results: Kernel Density
Transect 12
All Species

Scale	Designed	Drawn	Checked	Approved
NTS	DL	ER	SM	ER
Original Size	Date	Date	Date	Date
A1	18/03/2021	18/03/2021	18/03/2021	18/03/2021

Drawing Number
HE PIN | Originator | Volume
HE551508 - MMSJV - EBD -
000 - DR - LB - 0219
Location | Type | Role | Number

Project Ref. No. 370774

Revision P1

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NTS

0 190 380m

REV.	DATE	AMENDMENT DETAILS	ORIG	CHK'D	APP'D
P1	18/03/2021	Suitable for Stage Approval	ER	SM	ER

Notes

Pink Modified Scheme, Mott MacDonald (2018)
Transect results, Mot MacDonald (2020)

Service Layer Credits: Source: Esri, Maxar, GeoEye, Earthstar Geographics,

Key to symbols

- Pink modified scheme option
- Transect 13
- 100m buffer

Result

- No value
- Low
- High

References drawings

Drawing Status: Suitable for Stage Approval

Suitability: S4

Project Title: A358 Taunton to Southfields

Drawing Title: Transect Results: Kernel Density
Transect Route 13
All Species

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Client: highways england

Scale	Designed	Drawn	Checked	Approved
NTS	DL	ER	SM	ER
Original Size: A1	Date: 18/03/2021	Date: 18/03/2021	Date: 18/03/2021	Date: 18/03/2021

Drawing Number: HE551508 - MMSJV - EBD - 000 - DR - LB - 0222
(Location | Originator | Volume | Type | Role | Number)

Project Ref. No.: 370774

Revision: P1