

M5 Junction 10 Improvements Scheme

Environmental Statement Appendix 7.8 Breeding Bird surveys TR010063 – APP 6.15

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6.15 Environmental Statement:

Appendix 7.8 Breeding Bird surveys

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1. Introduction

1.1. Terms of Reference

- 1.1.1. Atkins, a member of the SNC Lavalin Group, was commissioned by Gloucestershire County Council (GCC) to undertake breeding bird surveys to inform the Environmental Statement (ES) for the M5 Junction 10 Improvements Scheme (hereafter referred to as the Scheme).
- 1.1.2. The purpose of the breeding bird surveys was to determine the species and numbers of breeding birds present within the Scheme and where possible the breeding status; provide recommendations to enable compliance with legislation and policy; and, if necessary, identify the need for avoidance, mitigation, compensation, or enhancement measures.
- 1.1.3. This Technical Appendix summarises the results of the breeding bird surveys undertaken, including the methods used, results of the field surveys, and provides an evaluation of the nature conservation value of breeding birds within the survey area.
- 1.1.4. This report provides information to support the ES, which will accompany the planning application for the Scheme.

1.2. Legislative and Conservation Concern Status

Legislation

- 1.2.1. Relevant legislation in relation to breeding birds is provided in Table 1-1 below.

Table 1-1 - Summary of Relevant Legislation

Legislation	Offences	Licensing Procedures and Guidance
Wildlife and Countryside Act 1981 (as amended)	Intentionally kill, injure, or take any wild bird; intentionally take, damage, or destroy the nest of any wild bird while that nest is in use or being built; intentionally take or destroy the nest or eggs of any wild bird. Intentionally or recklessly disturb a Schedule 1 species while it is building a nest or is in, on or near a nest containing eggs or young; intentionally or recklessly disturb dependent young of such a species.	No licences are available to disturb any birds in regard to development. Licences are available in certain circumstances to damage or destroy nests, but these only apply to the list of licensable activities in the Act and do not cover development. General licences are available in respect of 'pest species' but only for certain very specific purposes e.g. public health, public safety, air safety. Guidance documents: NE & DEFRA Standing Advice for protected species 2022.
The Birds Directive 79/409/EEC Annex 1	N/A	Bird species listed under Annex 1 of the Birds Directive 79/409/EEC are considered endangered or important migratory species in Europe. These species have been protected by the establishment of a coherent network of Special Protection Areas (SPAs).

Legislation	Offences	Licensing Procedures and Guidance
Conservation of Habitats and Species Regulations 2017 (as amended)	N/A	Regulation 8 of the Conservation of Habitats and Species Regulations 2017 (as amended) defines SPAs as European Sites. SPAs are designated based on populations of Annex 1 species that they support, and thus comprise the most suitable habitats to ensure the survival and/or reproduction of these species in their area of distribution. Regulation 9 places a duty on public authorities to have regard to the requirements of the Birds Directive in the exercise of their functions. Regulation 10 places a duty on public authorities to take steps in the exercise of their functions to contribute to the achievement of the preservation, maintenance and re-establishment of a sufficient diversity and area of habitat for wild birds in the United Kingdom.
Ramsar	N/A	Ramsar sites are wetlands of international importance designated under the Ramsar Convention. The majority of UKs sites are established for internationally important populations of non-breeding waterfowl though some sites have no qualifying ornithological interest.

Conservation Concern Status

- 1.2.2. The UK's leading bird conservation organisations have worked together on the latest review of the status of the birds that occur regularly in the UK (Stanbury et al., 2021¹). Bird species have been assessed against a set of objective criteria to place each on one of three lists – green, amber, and red – indicating an increasing level of conservation concern. The criteria used in assessments are intended to ensure that Birds of Conservation Concern (BoCC⁵) listings reflect each species' global and European status as well as that within the UK, and additionally measure the importance of the UK population in international terms.
- 1.2.3. Section 41 of the Natural Environment and Rural Communities (NERC) Act 2006 requires the Secretary of State to publish a list of habitats and species which are of principal importance for the conservation of biodiversity in England; this is known as the England Biodiversity List².
- 1.2.4. The UK Biodiversity Action Plan (UK BAP), as updated by the UK Biodiversity Partnership in 2007, was used to draw up the England Biodiversity List. The UK BAP has been succeeded by the UK Post-2010 Biodiversity Framework in 2012, due to a change in government strategy by all UK countries, focusing on managing the environment as a whole rather than dealing with different aspects of biodiversity and environment

¹ Stanbury, A., Eaton, M., Aebischer, N., Balmer, D., Brown, A., Douse, A., Lindley, P., McCulloch, N., Noble, D., and Win I. 2021. The status of our bird populations: the fifth Birds of Conservation Concern in the United Kingdom, Channel Islands and Isle of Man and second IUCN Red List assessment of extinction risk for Great Britain. *British Birds* 114: 723-747. Available at

² <https://www.gov.uk/government/publications/habitats-and-species-of-principal-importance-in-england>

separately³. However, the UK BAP list of priority habitats and species continue to be regarded as conservation priorities in the UK Post-2010 Biodiversity Framework.

- 1.2.5. Forty-nine bird Species of Principal Importance (SPI) are included on the England Biodiversity List. These include 48 of the 53 bird species listed for England in the UK BAP⁴, with the addition of hen harrier whose population in England is at very low levels and is unlikely to increase without continued conservation action. The England Biodiversity List is used as a guide for decision makers such as public bodies, including local and regional authorities, in implementing their duty under Section 40 of the NERC Act 2006 to have regard to the conservation of biodiversity in England when carrying out their normal functions.

³ JNCC and Defra (on behalf of the Four Countries' Biodiversity Group). 2012. UK Post-2010 Biodiversity Framework. (http://jncc.defra.gov.uk/pdf/UK_Post2010_Bio-Fwork.pdf: accessed 13 November 2013).

⁴ Arctic skua, black-throated diver, red-backed shrike, red-necked phalarope, and wryneck are listed for England in the UK BAP but are not included in the England biodiversity list

2. Methodology

2.1. Introduction

- 2.1.1. Unless otherwise stated, the term ‘Scheme Boundary’ refers to the Order limits, excluding areas of the Order limits that extend approximately 2 km north and 2 km south of the Scheme alignment, along the M5. In these locations, the Scheme Boundary is the Scheme alignment. The Order limits and the Scheme alignment are shown on Figures 7-8A – 7-8D.
- 2.1.2. Within the areas of the Order limits that extend north and south of the Scheme alignment, the only works proposed are the installation of signs in discrete locations, which will require vegetation clearance of up to approximately 20 m² plus some minor trimming back of vegetation up to a distance of 180 m in front of the sign to ensure visibility. These signage locations can be micro sited to avoid/minimise ecological impacts. These small-scale works are consistent with routine highway maintenance works. The results of desk study and field surveys here would not have any bearing on the impact assessment for the Scheme, and these areas have been excluded from assessments to inform the ES. Pre-construction surveys of the discrete signage locations and working with the contractor to micro site locations where appropriate to avoid or minimise ecological impacts will be undertaken, and is considered to be proportionate.

2.2. Desk Study

- 2.2.1. The geographical area for obtaining ecological data through desk studies has been determined using professional judgement. Baseline data has been gathered from a range of sources through data requests and using online resources as outlined below. This includes data gathering in relation to statutory and non-statutory designated sites and protected and priority species.
- 2.2.2. The MAGIC website⁵ was reviewed to identify relevant statutory designated nature conservation sites (i.e. where birds are the reason or part of the reason for designation) within 2 km of the Scheme or with a direct hydrological connection.
- 2.2.3. Species of principal importance (SPI) for the conservation of biodiversity listed in accordance with Section 41 of the Natural Environment & Rural Communities Act (NERC) 2006⁶, the Red and Amber lists of BoCC5⁷ and the Gloucestershire Local Biodiversity Action Plan⁸ were reviewed as part of the data gathering exercise to identify relevant bird species considered to be important for biodiversity at the site. The Gloucestershire Bird Report⁹

⁵ <https://magic.defra.gov.uk/MagicMap.aspx>

⁶ Section 40 of the NERC Act 2006 sets out the duty for public authorities to conserve biodiversity in England. Habitats and species of principal importance for the conservation of biodiversity as identified by the Secretary of State for England, in consultation with Natural England, are referred to in Section 41 of the NERC Act 2006 for England. The list of habitats and species was updated in 2008 and is known as the England Biodiversity List.

⁷ Stanbury, A., Eaton, M., Aebischer, N., Balmer, D., Brown, A., Douse, A., Lindley, P., McCulloch, N., Noble, D., and Win I. 2021. The status of our bird populations: the fifth Birds of Conservation Concern in the United Kingdom, Channel Islands and Isle of Man and second IUCN Red List assessment of extinction risk for Great Britain. British Birds 114: 723-747. Available at [REDACTED]

⁸ Gloucestershire Local Nature Partnership (2000) Biodiversity Action Plan for Gloucestershire Available from: <https://www.gloucestershirenature.org.uk/biodiversity-action-plan-bap>

⁹ Goodhall, R., Kirk, G. and Petrek, S. (2020) Gloucestershire Bird Report 2014-16. Gloucestershire Ornithological Co-ordinating Committee

and Gloucestershire Breeding Bird Atlas¹⁰ were reviewed to ascertain the population status of certain species within the county.

2.2.4. Gloucestershire Centre for Environmental Records (GCER) was contacted in September 2019 and again in April 2021 and July 2022 to obtain recent records¹¹ of:

- Non-statutory designated nature conservation sites within 1 km of the Scheme Boundary (where birds are the reason or part of the reason for designation); and
- Priority¹² bird species within 1 km of the Scheme Boundary.

2.3. Field Survey

2.3.1. Surveys were led by suitably experienced ecologists considered competent to undertake breeding bird surveys in accordance with the Chartered Institute of Ecology and Environmental Management (CIEEM) competencies¹³. The lead surveyor is an experienced ornithologist with over 15 years of professional bird survey and assessment experience.

2.3.2. The method employed for breeding bird surveys broadly conformed to that used for the Common Bird Census (CBC) survey, devised, and run between 1962 and 2000 by the British Trust for Ornithology (BTO) as detailed in Gilbert et al. (1998)¹⁴ and Bibby et al. (2000)¹⁵. CBC uses a mapping method in which a series of visits are made to a site during the breeding season, and observations of birds, by sight or sound, are recorded on a map during a walked transect.

2.3.3. The Survey Area comprised all areas within the Scheme Boundary and accessible land within 250 m. The Survey Area was designed to ensure that the assessment considered all potential impacts on all species present in the area within which an impact may occur (i.e. the Ecological Zone of Influence (EZoI)). This included consideration of species which may be sensitive to disturbance over large distances during the breeding season, such as certain raptor species. The extent of the Survey Area also allowed for some degree of design changes to the Scheme to be accommodated.

2.3.4. Four survey visits were carried out (June and July 2019, May 2020, and April 2021), which was considered proportionate for a relatively localised road improvement Scheme, allowing sufficient observations of birds to produce clusters of registrations, and minimising the risk of overlooking scarce and/or priority species. A total of nine representative transects of varying lengths were surveyed, which gave suitable coverage of the Survey Area and the range of habitats present. This was reduced to six transects in May 2020 and April 2021 due to refinement the Scheme design. The direction in which the transects were walked was varied between visits to optimise detection and minimise recording bias. The transects are shown on Figures 7-8A to 7-8D in Appendix A.

2.3.5. Walked transects generally commenced between 45 to 90 minutes after dawn and finished by 11 am to coincide with peak bird activity. Surveys were not carried out in heavy

¹⁰ Kirk, G. and Phillips, J. (2013) *The Birds of Gloucestershire*. Liverpool University Press

¹¹ Records of observations within the last 10 years

¹² In this context, priority birds include those listed as species of principal importance for the conservation of biodiversity in England, those identified as Red or Amber on BoCC5, Annex I listed species on Directive 2009/147/EC (the Birds Directive), those listed on Schedule 1 of the Wildlife and Countryside Act 1981 (as amended), species listed on the Gloucestershire Biodiversity Action Plan, qualifying features of the Severn Estuary SPA and/or features of interests of the Severn Estuary Ramsar site, qualifying features of Walmore Common SPA.

¹³

¹⁴ Gilbert, G., Gibbon, D.W. and Evans J. (1998). *Bird Monitoring Methods: A Manual of Techniques for Key UK Species*. Royal Society for the Protection of Birds, The Lodge, Sandy, Bedfordshire

¹⁵ Bibby C.J. Burgess, N.D. Hill D.A. Mustoe S. and Lambton S. (2000). *Bird Census Techniques*. Academic Press London

rain, poor visibility or strong wind, as birds are under-recorded in such conditions. Dates and times of each survey visit are shown in Appendix B along with weather conditions.

- 2.3.6. The surveyor, with the aid of binoculars, recorded all observations of birds by either sight or sound by walking through the Survey Area at a slow and steady pace. The positions of the recorded birds were plotted as accurately as possible on a suitably scaled base map, (i.e. a ‘visit map’). Standard BTO codes and symbols¹⁶ were used for mapping species (including sex and age, e.g. juvenile, immature, or adult) and bird activity, where relevant (including singing, alarm calling, nest-building, carrying food and faecal sacs, territorial disputes and aggressive interactions, copulation, foraging, loafing and in flight).

2.4. Assessment

Breeding Status

- 2.4.1. Registrations of birds during the surveys were judged to be ‘breeding’, ‘probable breeding’, ‘possible breeding’, or ‘non-breeding’ according to the criteria in Table 2-1 below. Breeding behaviour includes displaying, singing, territorial activity, agitated or defensive behaviour or pairs of adults together.
- 2.4.2. The data captured during the survey visits were analysed to provide an estimate of the number of pairs of priority species within the Survey Area.

Table 2-1 - Breeding Criteria

Category	Criteria
Breeding	Adults observed at nest. Nest with eggs. Unfledged young. Carrying nest material, food, or faecal sac. Present in one location (within normal territory range) on at least two occasions in one breeding season and displaying behaviour indicative of breeding on at least one occasion.
Probable Breeding	Present in suitable breeding habitat in the same location (within normal territory range) in one breeding season on more than one occasion. Displaying breeding behaviour on one occasion only.
Possible Breeding	Present in suitable breeding habitat on one occasion.
Non-Breeding	Present in non-suitable habitat for breeding. Immature birds.

Defining Important Bird Species

- 2.4.3. For the purpose of this assessment, priority bird species are defined as those which are listed as species of principal importance (SPI) for the conservation of biodiversity in

¹⁶BTO (2009) BTO Species Codes. BTO, Thetford

England, those identified as Red or Amber on BoCC5¹⁷, Annex I listed species on Directive 2009/147/EC (the Birds Directive), species listed on Schedule 1 of the Wildlife and Countryside Act 1981 (as amended), species listed on the Gloucestershire Local Biodiversity Action Plan, qualifying features of the Severn Estuary SPA and/or features of interest of the Severn Estuary Ramsar site, and qualifying features of Walmore Common SPA/Ramsar site.

Determination of Bird Community Importance

- 2.4.4. The priority populations of breeding birds have been valued in a geographical context following the framework provided in LA 108¹⁸. The evaluation is based on the information gathered from the desk study and field surveys, using a combination of professional judgement and accepted criteria¹⁹ (e.g. diversity, rarity, and naturalness).

2.5. Limitations

- 2.5.1. Due to the timing of commissioning of the surveys, the field work started in early June 2019 with subsequent visits undertaken in July 2019, May 2020, and April 2021. Visits were not undertaken during March or April 2020 due to the Coronavirus pandemic. Surveys undertaken in May 2020 and April 2021 started later than recommended due to health and safety restrictions, including not being able to stay overnight close to the survey location as a result of the Coronavirus pandemic.
- 2.5.2. Territorial analysis of priority species could not be undertaken as only two visits were undertaken in any one year. A minimum of four visits during the breeding season in one year is recommended^{20,21,22} to obtain sufficient registrations so that an approximate estimation of the numbers and distribution of breeding bird territories within the survey area can be established.
- 2.5.3. The breeding status of some species may have been classified at a lower level, e.g. classified as probable breeding as opposed to breeding, than if three or four visits were undertaken in one year.
- 2.5.4. The M5 and A4019 was subject to a high volume of traffic towards the end of each survey visit due to increases in commuter traffic volume, which resulted in significant noise pollution surrounding the road network. Birds are generally sensitive to noise pollution; therefore, it is not considered that any significant assemblages of priority species would be present in the areas of vegetation immediately surrounding the road network that were subject to the highest levels of noise pollution during the surveys.
- 2.5.5. Access to all land parcels within 250 m of the Scheme Boundary was not granted by the time the surveys were undertaken. As such, surveys of certain areas, particularly at the

¹⁷ Stanbury, A., Eaton, M., Aebischer, N., Balmer, D., Brown, A., Douse, A., Lindley, P., McCulloch, N., Noble, D., and Win I. 2021. The status of our bird populations: the fifth Birds of Conservation Concern in the United Kingdom, Channel Islands and Isle of Man and second IUCN Red List assessment of extinction risk for Great Britain. *British Birds* 114: 723-747. Available at [REDACTED]

¹⁸ Highways England (2020). Design Manual for Roads and Bridges. LA 108 Biodiversity (formerly Volume 11, Section 3, Part 4 Ecology and Nature Conservation and IAN 130/10). (March 2020, version 1). Online: [REDACTED]

¹⁹ Set out in Ratcliffe, D.A (1977). A Nature Conservation Review. Cambridge University Press.

²⁰ Hill, D., Fasham, M., Tucker, G., Shewry, M. and Shaw, P. (2005) Handbook of biodiversity methods: survey, evaluation and monitoring. Cambridge University Press: Cambridge

²¹ Hinsley, S.A., Bellamy, P.E., Newton, I., and Sparks, T.H. (1995) Habitat and landscape factors influencing the presence of individual species in woodland fragments. *Journal of Avian Biology*: 26, 94-104.

²² Amar, A., Hewson, C., Thewlis, R.M., Smith, K.W., Fuller, R. J., Lindsell, J. A., Conway, G., Butler, S. And MacDonald, M. A. (2008) What's happening to our woodland birds? BTO Research Report Number 169.

north east extent of the Scheme, could only be undertaken from Public Rights of Way (PRoWs), which were up to 250 m from the Scheme in places.

- 2.5.6. Ornithological surveys are affected by a variety of factors which affect the presence of birds such as season, weather, climate, migration patterns, food availability, species behaviour and the presence of predators. Therefore, bird surveys for this Scheme may not have produced a complete bird list and the absence of evidence of any particular species within the Survey Area (or a part of the Survey Area), should not be taken as conclusive proof that the species is not present or that it will not be present in the future.
- 2.5.7. Nevertheless, it is considered that the results of these bird surveys and the subsequent assessment provide a representative indication of the use of the EZol by breeding bird species during the survey period.

3. Results

3.1. Desk Study

Designated Sites

- 3.1.1. There is one statutory designated site with birds as a feature of interest within 2 km of the Scheme. This is Coombe Hill Canal SSSI, located approximately 1.9 km to the north west. This site is designated partly for its diverse breeding bird assemblage, particularly resident and migrant warblers which make use of the scrub and withy bed habitats, and waders such as curlew (*Numenius arquata*) and snipe (*Gallinago gallinago*) which frequent the wetter areas of the fen and ditch margins.
- 3.1.2. The closest statutory designated sites that have been specifically designated with respect to their ornithological importance are Walmore Common SPA and Ramsar site, and the Severn Estuary SPA and Ramsar site, located approximately 17.5 km and 22.7 km to the south west of the Site respectively. The Severn Estuary SPA/Ramsar site is hydrologically connected to the Scheme.
- 3.1.3. Walmore Common SPA is designated under Articles 4.1 of the EC Directive 79/409/EEC for regularly supporting populations of European importance of Bewick's swan (*Cygnus columbianus*) over winter.
- 3.1.4. The Severn Estuary SPA is designated under Article 4.1 of the EC Directive 79/409/EEC for supporting populations of European importance of wintering wildfowl and waders and under Article 4.2 for regularly supporting at least 20,000 waterfowl over winter.
- 3.1.5. There are no non-statutory designated sites within 2 km of the Scheme.

Species Records

- 3.1.6. The Gloucestershire Local BAP includes action plans for 13 bird species in total, namely bittern (*Botaurus stellaris*), nightjar (*Caprimulgus europaeus*), woodlark (*Lullula arborea*), spotted flycatcher (*Muscicapa striata*) and 'farmland birds' (bullfinch (*Pyrrhula pyrrhula*), corn bunting (*Emberiza calandra*), grey partridge (*Perdix perdix*), linnet (*Linaria cannabina*), reed bunting (*Emberiza schoeniclus*), skylark (*Alauda arvensis*), song thrush (*Turdus philomelos*), tree sparrow (*Passer montanus*) and turtle dove (*Streptopelia turtur*)).
- 3.1.7. The desk study identified recent records (i.e. since 2012) of 40 priority bird species within 1 km of the Scheme, of which 32 species were recorded within the breeding season (i.e. March to August inclusive²³). This includes:
- Two species on Schedule 1 of the Wildlife and Countryside Act 1981 (kingfisher (*Alcedo atthis*) and red kite (*Milvus milvus*)).
 - Twelve species on the BoCC5 Red List (cuckoo (*Cuculus canorus*), greenfinch (*Chloris chloris*), herring gull (*Larus argentatus*), house martin (*Delichon urbicum*), house sparrow (*Passer domesticus*), linnet, mistle thrush (*Turdus viscivorus*), skylark, starling (*Sturnus vulgaris*), swift (*Apus apus*), yellowhammer (*Emberiza citrinella*) and lapwing (*Vanellus vanellus*));

²³ Where month recorded has not been provided or a date range has been provided which includes months within the breeding season, records have been included as a precaution.

- Eighteen species on the BoCC5 Amber List (black-headed gull (*Chroicocephalus ridibundus*), common gull (*Larus canus*), dunnock (*Prunella modularis*), great black-backed gull (*Larus marinus*), grey wagtail (*Motacilla cinerea*), kestrel (*Falco tinnunculus*), lesser black-backed gull (*Larus fuscus*), mallard (*Anas platyrhynchos*), moorhen (*Gallinula chloropus*), redstart (*Phoenicurus phoenicurus*), rook (*Corvus frugilegus*), song thrush, sparrowhawk (*Accipiter nisus*), stock dove (*Columba oenas*), whitethroat (*Curruca communis*), willow warbler (*Phylloscopus trochilus*), woodpigeon (*Columba palumbus*) and wren (*Troglodytes troglodytes*).
- Ten species listed as species of principal importance for the conservation of biodiversity in England (cuckoo, dunnock, herring gull, house sparrow, lapwing, linnet, skylark, song thrush, starling, and yellowhammer);
- Two species listed on Annex 1 of the Birds Directive (kingfisher and red kite);
- Three species listed on the Gloucestershire Local BAP (linnet, skylark, and song thrush);
- Two qualifying species of the Severn Estuary SPA (mallard and lapwing); and
- Two species identified on the Severn Estuary Ramsar Information Sheet (herring gull, identified as noteworthy fauna regularly supported during the breeding season, and lesser-back backed gull, identified as a species subsequent to designation for possible future consideration under criterion 6) which are regularly supported during the breeding season.

3.2. Field Survey

3.2.1. A total of 62 species were recorded within the Survey Area, of which 34 are priority species. The recorded priority species include:

- Three species listed on Schedule 1 of the Wildlife and Countryside Act 1981 (as amended) (hobby (*Falco Subbuteo*), kingfisher and red kite);
- Eleven species on the BoCC5 Red List (greenfinch, herring gull, house martin, house sparrow, linnet, mistle thrush, skylark, starling, swift, yellow wagtail (*Motacilla flava*) and yellowhammer);
- Nineteen species on the BoCC5 Amber List (black-headed gull, bullfinch, dunnock, grey wagtail, kestrel, lesser black-backed gull, mallard, meadow pipit (*Anthus pratensis*), moorhen, reed bunting, rook, sedge warbler (*Acrocephalus schoenobaenus*), song thrush, sparrowhawk, stock dove, common whitethroat, willow warbler, woodpigeon and wren);
- Eleven species listed as species of principal importance for the conservation of biodiversity in England (bullfinch, dunnock, herring gull, house sparrow, linnet, reed bunting, skylark, song thrush, starling, yellow wagtail, and yellowhammer);
- Three species listed on Annex 1 of the Birds Directive (kingfisher, little egret (*Egretta garzetta*) and red kite);
- Five species listed on the Gloucestershire Local BAP (bullfinch, linnet, reed bunting, skylark, and song thrush);
- One qualifying feature of the Severn Estuary SPA (mallard); and
- Three species identified on the Severn Estuary Ramsar Information (herring gull and little egret are identified as noteworthy fauna and lesser-black backed gull is identified as a species subsequent to designation for possible future consideration under criterion 6).

3.2.2. Of the 62 species recorded, 33 species are confirmed as breeding or considered to have bred, 15 species are probable breeders, and 10 species are possible breeders within the Survey Area. Four species are considered to be non-breeders.

3.2.3. All priority species recorded, along with peak counts within the EZoI, legal protection and conservation status, are set out in Table 3-1 to Table 3-3 below according to their breeding status. The full survey results are provided in Appendix C and the results are shown on Figures 7-8A to 7-8D in Appendix A.

Table 3-1 - Breeding Priority Species

Species	Number/ peak count	Location	Status
Dunnock	5	Recorded throughout the Survey Area, associated with hedgerows, scrub and woodland.	Amber List BoCC5, SPI
Greenfinch	21	Recorded in low numbers in agricultural areas throughout most of the Survey Area.	Red List BoCC5
Grey Wagtail	7	Generally associated with the River Chelt near Butler's Court and Millhouse Farm.	Amber List BoCC5
House Martin	36	Recorded breeding in Hardwicke and foraging throughout the Survey Area.	Red List BoCC5
House Sparrow	116	Associated with urban areas, residential properties, and farmyards (e.g., Uckington and Butler's Court)	Red List BoCC5, SPI
Kestrel	3	Recorded in low numbers, at or near Colmans Farm, Butlers' Court and Millhouse Farm.	Amber List BoCC5
Song Thrush	15	Breeding birds were recorded throughout the Survey Area associated with semi-natural and plantation woodland, hedgerows, scattered trees, and gardens	Amber List BoCC5, SPI
Sparrowhawk	3	Recorded carrying food at the north of the Survey Area, and individuals recorded in flight throughout the Survey Area.	Amber List BoCC5
Starling	50	Generally associated with urban areas, residential properties, and farmyards, and foraging throughout the Survey Area on improved grassland.	Red List BoCC5, SPI
Stock Dove	47	Recorded breeding in a mature tree in a hedgerow at Millhouse Farm. Recorded foraging, loafing and in flight throughout the survey area in agricultural habitats.	Amber List BoCC5
Common Whitethroat	14	Breeding birds were recorded throughout the Survey Area, generally associated with hedgerows and scrub in agricultural areas.	Amber List BoCC5

Species	Number/ peak count	Location	Status
Wood pigeon	387	Breeding birds were recorded throughout the Survey Area, generally associated with hedgerows, trees and scrub in agricultural and residential areas.	Amber List BoCC5
Wren	92	Breeding birds were recorded throughout the Survey Area, generally associated with hedgerows, trees and scrub in agricultural and residential areas.	Amber List BoCC5
Yellow Wagtail	10	Generally associated with arable habitat, particularly at Butler's Court and north of Withybridge.	Red List BoCC5, SPI
Yellowhammer	18	Breeding birds were recorded throughout the Survey Area, generally associated with hedgerows and scrub in agricultural areas.	Red List BoCC5, SPI

Table 3-2 - Probable Breeding Priority Species

Species	Number/ peak count	Location	Status
Bullfinch	2	One pair recorded in scrub at Stanboro.	Amber List BoCC5
Lesser Black-backed Gull	57	Gallagher retail park.	Amber List BoCC5
Linnet	7	Recorded in low numbers in agricultural areas throughout most of the Survey Area.	Red List BoCC5, SPI
Mallard	13	Recorded in low numbers in flight, and at the moat at Moat House and the River Chelt.	Amber List BoCC5
Mistle Thrush	4	Recorded in low numbers, particularly at or near Boddington Manor Farm, Butlers' Court and Millhouse Farm.	Red List BoCC5
Moorhen	3	Recorded in low numbers near Moat House and at the River Chelt.	Amber List BoCC5
Reed Bunting	1	One individual recorded in tall ruderal vegetation north of Withybridge.	Amber List BoCC5, SPI
Sedge Warbler	1	One individual recorded singing adjacent to the River Chelt.	Amber List BoCC5
Skylark	31	Arable and pasture throughout the Survey Area.	Red List BoCC5, SPI
Swift	13	Recorded foraging in low numbers over agricultural areas	Red List BoCC5

Species	Number/ peak count	Location	Status
		throughout most of the Survey Area.	

Table 3-3 - Possible Breeding Priority Species

Species	Number/ peak count	Location	Status
Herring Gull	18	Gallagher retail park.	Red List BoCC5, SPI
Hobby	1	Recorded in flight at Hayden Hill Fruit Farm. Possibly breeding in a mature tree at any location within the Survey Area or the wider area but likely within a woodland or copse.	Schedule 1
Kingfisher	3	River Chelt at Butlers' Court and Millhouse Farm.	Schedule 1, Annex 1
Meadow Pipit	30	Generally low numbers recorded foraging in on grasslands and arable fields throughout most of the Survey Area, with larger numbers recorded at Pilgrove Farm.	Amber List BoCC5
Red Kite	1	Recorded in flight at Barn Farm. Possibly breeding in a large mature tree at any location within the Survey Area or the wider area, but likely within a woodland or copse.	Schedule 1, Annex 1
Rook	14	Low numbers recorded in agricultural areas within the Survey Area.	Amber List BoCC5
Willow Warbler	1	One individual recorded in gardens at the west of Uckington.	Amber List BoCC5

Table 3-4 – Non-Breeding Priority Species

Species	Number/ peak count	Location	Status
Black-headed Gull	8	Recorded on fields within the Survey Area.	Amber List BoCC5
Little Egret	4	Recorded flying over agricultural fields south of Uckington.	Annex 1

3.3. Incidental Records

- 3.3.1. Two additional species, barn owl and tawny owl (*Strix aluco*), were recorded during other ecology surveys undertaken during the breeding period (March to August inclusive) that were not observed during the Breeding Bird Surveys.

- 3.3.2. Barn owl was observed on six separate occasions during 2019 to 2021 inclusive. This species was observed at the same location on two separate occasions in the same breeding season (June and July 2020) and is therefore considered to be probably breeding.
- 3.3.3. Tawny owl was observed on one occasion in suitable breeding habitat during the breeding season and is considered to be possibly breeding.

3.4. Description of Bird Assemblages

- 3.4.1. The assemblage of breeding birds is considered to be largely typical of agricultural areas, woodland and scrub and built-up areas within Gloucestershire.
- 3.4.2. The presence of agricultural habitats such as arable fields, hedgerows and improved grassland within the Survey Area has resulted in the recording of associated priority species including grey wagtail, kestrel, linnet, skylark, starling, stock dove, yellow wagtail, and yellowhammer.
- 3.4.3. Notable species associated with semi-natural broadleaved woodland include mistle thrush, song thrush and tawny owl; and those associated with built-up areas include house martin, house sparrow, swallow (*Hirundo rustica*) and starling.

4. Evaluation

- 4.1.1. Five species are identified in a county or equivalent authority area plan or strategy, i.e. within the Gloucestershire Local BAP (under 'farmland birds'): bullfinch (peak count of two), linnet (peak count of seven), reed bunting (peak count of one), skylark (peak count of 31) and song thrush (peak count of 15).
- 4.1.2. Fifty-six of the 62 species recorded during the Breeding Bird Survey or as an incidental observation have a Gloucestershire breeding population status that is abundant (i.e. breeding numbers of 10,000+), common (i.e. breeding numbers of 1,000 to 9,999), or fairly common (i.e. breeding numbers of 100 to 999)²⁴.
- 4.1.3. Seven species recorded during the Breeding Bird Survey or as an incidental observation have a Gloucestershire breeding population status that is uncommon (i.e. breeding numbers of 10-99), or scarce (i.e. breeding numbers of one to nine)²⁵:
- Barn owl (uncommon or scarce breeding resident). Incidental observations of one or two individuals (two separate observations on the same date at locations approximately 1 km apart) were recorded in June 2020.
 - Grey wagtail (uncommon breeding resident). Peak count of five individuals recorded in May 2020.
 - Herring gull (uncommon breeding resident). Peak count of 18 individuals recorded in May 2020.
 - Hobby (uncommon breeding resident). One individual recorded in June 2019.
 - Lesser whitethroat (*Curruca curruca*) (uncommon breeding summer visitor). Peak count of four individuals recorded in June 2019.
 - Red kite (uncommon but increasing visitor, now breeding in the county). One individual recorded in July 2019.
 - Yellow wagtail (uncommon breeding summer visitor). Peak count of 10 individuals recorded in June 2019.
- 4.1.4. One qualifying species of the Severn Estuary SPA has been recorded; i.e. mallard (peak count of ten). Given the low numbers of mallard recorded, they are unlikely to be a significant component of the SPA population. Furthermore, at this distance from the SPA (located over 20 km south west of the Scheme at the nearest point), it is considered highly unlikely that the individuals recorded within the study area are part of the SPA qualifying feature population. This is supported by a recent study²⁶ which identifies functionally linked land associated with the Severn Estuary SPA. The maps which accompany this study do not identify that this species regularly moves between the SPA and the Survey Area.
- 4.1.5. Two features identified on the Severn Estuary Ramsar Information Sheet have been recorded. Herring gull (identified as noteworthy fauna) and lesser black-backed gull (identified as a species subsequent to designation for possible future consideration under criterion 6) were generally recorded in low numbers (peak counts of 18 and 57 respectively). It is considered that these individuals are likely to be breeding within urban

²⁴ Goodhall, R., Kirk, G. and Petrek, S. (2020) Gloucestershire Bird Report 2014-16. Gloucestershire Ornithological Co-ordinating Committee

²⁵ Goodhall, R., Kirk, G. and Petrek, S. (2020) Gloucestershire Bird Report 2014-16. Gloucestershire Ornithological Co-ordinating Committee

²⁶ Link Ecology Ltd (September 2020) Identification of land with proven or possible functional linkages with the Severn Estuary SSSI/SPA Phase 5 (Gloucestershire and Worcestershire) A report to Natural England.

areas such as Cheltenham and/or Gloucester, as opposed to the Ramsar site breeding colonies at Steep Holm and Flat Holm²⁷ (located approximately 90 km south west). Cheltenham Borough Council states that “Herring Gulls and Lesser Black-Backed Gulls nest in the residential areas of Cheltenham and on industrial units in the Kingsditch area”²⁸. The JNCC Seabird Monitoring Programme online database states that the Gloucestershire Urban Gulls Cheltenham site (85627) supported 46 herring gull apparently occupied territories and 273 lesser black-backed gull apparently occupied territories in 2011 (year of last count) and the Gloucester City: Gloucester site (86737) supported 657 herring gull apparently occupied nests and 2230 lesser black-backed gull apparently occupied nests in 2009 (year of last count)²⁹.

- 4.1.6. The habitats within the Survey Area are not considered to provide a role in maintaining the SPA or Ramsar populations or to be functionally linked to any SPAs or Ramsar sites.
- 4.1.7. Although five species are listed on the Gloucestershire Local BAP, these species are currently listed as either common or fairly common resident breeders within Gloucestershire. The peak counts for these species (see section 3.1) within the survey area are not considered to be of county importance in relation to breeding numbers for Gloucestershire.
- 4.1.8. Therefore, taken as a whole, the breeding bird assemblage is considered to appreciably enrich the habitat resource within the local context. The assemblage of breeding birds is therefore considered to be of Local importance for biodiversity.

²⁷ Burton, N.H.K., Musgrove, A.J., Rehfish, M.M., and Clark N.A. (2010) Birds of the Severn Estuary and Bristol Channel: Their current status and key environmental issues. *Marine Pollution Bulletin* 61 (2010) 115–123

²⁸ Cheltenham Borough Council (2018) Urban Gulls Scrutiny Task Group Report. Available at https://democracy.cheltenham.gov.uk/documents/s27390/2018_12_04_CAB_Urban_Gulls_scrutiny_report.pdf

Appendices

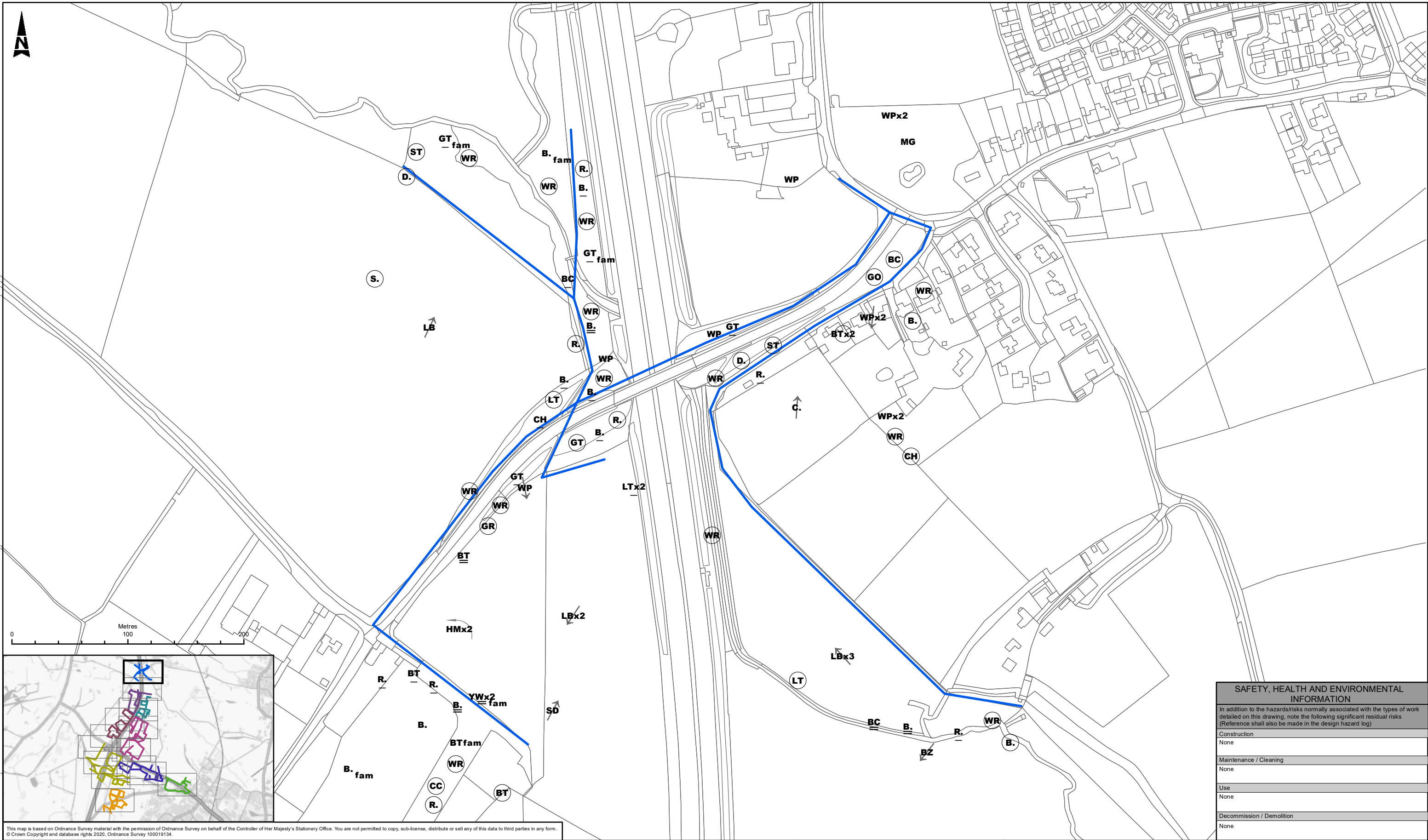


Appendix A. Schedule of figures included in this application document

Figure reference	Document title	Sheet	Document number	Revision
7-8A	Breeding bird survey results June 2019	1 of 14	GCCM5J10-ATK-EBD-ZZ-GS-GI-000018	0
7-8A	Breeding bird survey results June 2019	2 of 14	GCCM5J10-ATK-EBD-ZZ-GS-GI-000018	0
7-8A	Breeding bird survey results June 2019	3 of 14	GCCM5J10-ATK-EBD-ZZ-GS-GI-000018	0
7-8A	Breeding bird survey results June 2019	4 of 14	GCCM5J10-ATK-EBD-ZZ-GS-GI-000018	0
7-8A	Breeding bird survey results June 2019	5 of 14	GCCM5J10-ATK-EBD-ZZ-GS-GI-000018	0
7-8A	Breeding bird survey results June 2019	6 of 14	GCCM5J10-ATK-EBD-ZZ-GS-GI-000018	0
7-8A	Breeding bird survey results June 2019	7 of 14	GCCM5J10-ATK-EBD-ZZ-GS-GI-000018	0
7-8A	Breeding bird survey results June 2019	8 of 14	GCCM5J10-ATK-EBD-ZZ-GS-GI-000018	0
7-8A	Breeding bird survey results June 2019	9 of 14	GCCM5J10-ATK-EBD-ZZ-GS-GI-000018	0
7-8A	Breeding bird survey results June 2019	10 of 14	GCCM5J10-ATK-EBD-ZZ-GS-GI-000018	0
7-8A	Breeding bird survey results June 2019	11 of 14	GCCM5J10-ATK-EBD-ZZ-GS-GI-000018	0
7-8A	Breeding bird survey results June 2019	12 of 14	GCCM5J10-ATK-EBD-ZZ-GS-GI-000018	0
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7-8A	Breeding bird survey results June 2019	14 of 14	GCCM5J10-ATK-EBD-ZZ-GS-GI-000018	0
7-8B	Breeding bird survey results July 2019	1 of 14	GCCM5J10-ATK-EBD-ZZ-GS-GI-000019	0
7-8B	Breeding bird survey results July 2019	2 of 14	GCCM5J10-ATK-EBD-ZZ-GS-GI-000019	0
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Figure reference	Document title	Sheet	Document number	Revision
7-8B	Breeding bird survey results July 2019	7 of 14	GCCM5J10-ATK-EBD-ZZ-GS-GI-000019	0
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Figure reference	Document title	Sheet	Document number	Revision
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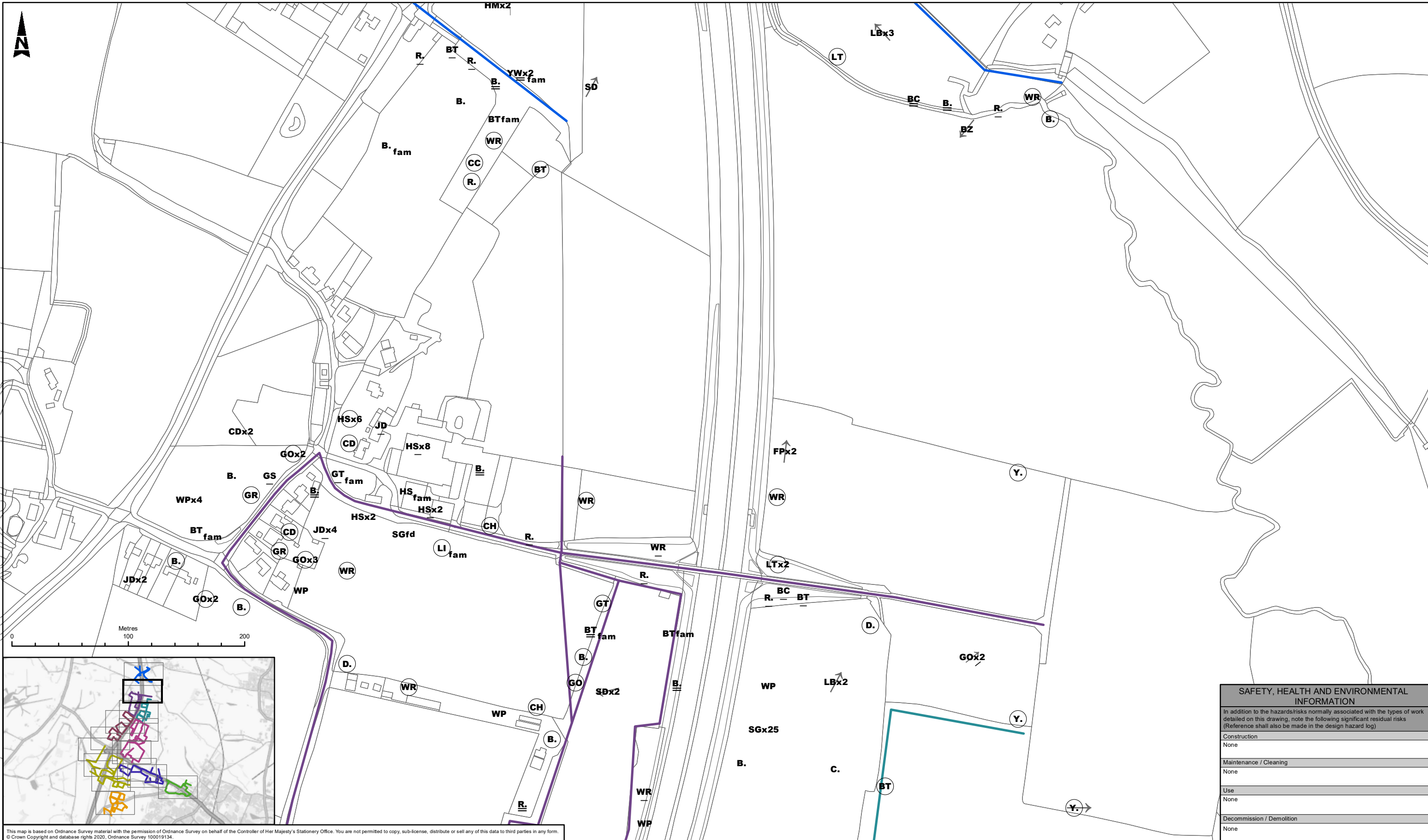
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Use	None
Decommission / Demolition	None

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TRANSECT 2	= ALARM CALL	CD COLLARED DOVE	GR GREENFINCH
TRANSECT 3	- CALLING	CH CHAFFINCH	GS GREAT SPOTTED WOODPECKER
TRANSECT 4	fd CARRYING FOOD	CT COAL TIT	GT GREAT TIT
TRANSECT 5	mat CARRYING NEST MATERIAL	D. DUNNOCK	H. GREY HERON
TRANSECT 6	fam FAMILY	FP FERAL PIGEON	HG HERRING GULL
TRANSECT 7	→ FLYING	G. GREEN WOODPECKER	HM HOUSE MARTIN
TRANSECT 8		GC GOLDCREST	LI LINNET
			LT LONG-TAILED TIT
			HS HOUSE SPARROW
			HY HOBBY
			J. JAY
			JD JACKDAW
			LB LESSER BLACK-BACKED GULL
			LI LINNET
			LT LONG-TAILED TIT
			LW LESSER WHITETHROAT
			MG MAGPIE
			PW PIED WAGTAIL
			PH PHEASANT
			R. ROBIN
			S. SKYLARK
			SD STOCK DOVE
			SG STARLING
			SH SPARROWHAWK
			SI SWIFT
			SL SWALLOW
			ST SONG THRUSH
			WP WOOD PIGEON
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Project Title	M5 Junction 10 Improvements Scheme						
Drawing Title	FIGURE 7-8A BREEDING BIRD SURVEY RESULTS JUNE 2019						
Drawing Number	Project	Originator	Volume				
	GCCM5J10 - ATK - EBD	ZZ - GS - GI - 000018					
Original Size	Location	Type	Project Ref	Role	Sheet Number	Rev	
A3			5214106		1 of 14	P03	



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Use	None
Decommission / Demolition	None

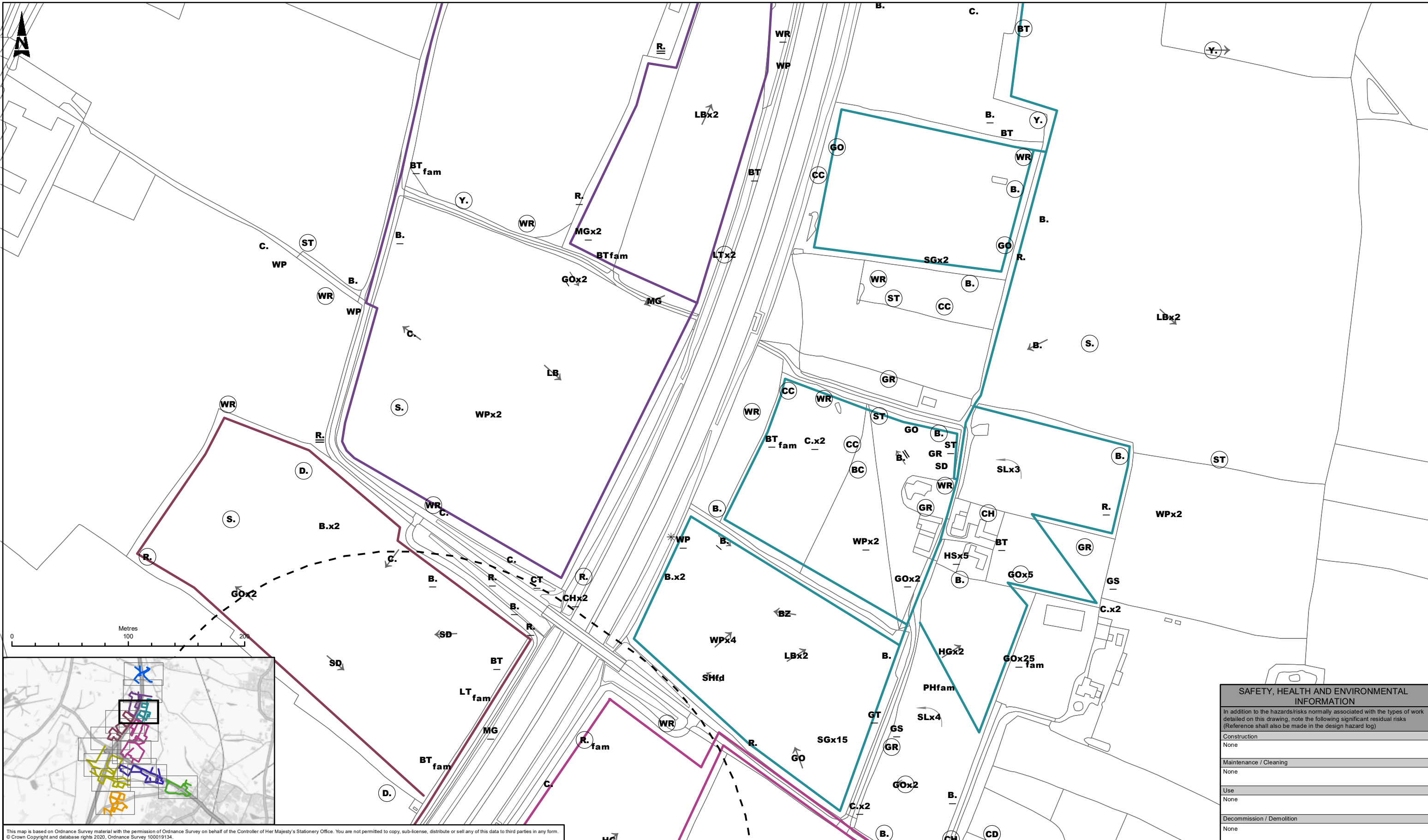
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	FORAGING IN FLIGHT ju JUVENILE * OCCUPIED NEST ○ SINGING
	SPECIES (BTO CODES) B. BLACKBIRD BC BLACKCAP BT BLUE TIT BZ BUZZARD C. CARRION CROW CC CHIFFCHAFF CD COLLARED DOVE CH CHAFFINCH CT COAL TIT D. DUNNOCK FP FERAL PIGEON G. GREEN WOODPECKER GC GOLDCREST GL GREY WAGTAIL GO GOLDFINCH GR GREENFINCH GS GREAT SPOTTED WOODPECKER GT GREAT TIT H. GREY HERON HG HERRING GULL HM HOUSE MARTIN HS HOUSE SPARROW HY HOBBY J. JAY JD JACKDAW LB LESSER BLACK-BACKED GULL LI LINNET LT LONG-TAILED TIT LW LESSER WHITETHROAT MG MAGPIE PW PIED WAGTAIL PH PHEASANT R. ROBIN S. SKYLARK SD STOCK DOVE SG STARLING SH SPARROWHAWK SI SWIFT SL SWALLOW ST SONG THRUSH WP WOOD PIGEON WH WHITETHROAT WR WREN Y. YELLOWHAMM... YW YELLOW WAGTAIL

Description	Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date
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Project Title		M5 Junction 10 Improvements Scheme	
Drawing Title		FIGURE 7-8A BREEDING BIRD SURVEY RESULTS JUNE 2019	
Drawing Number		Project Originator Volume GCCM5J10 - ATK - EBD ZZ - GS - GI - 000018	
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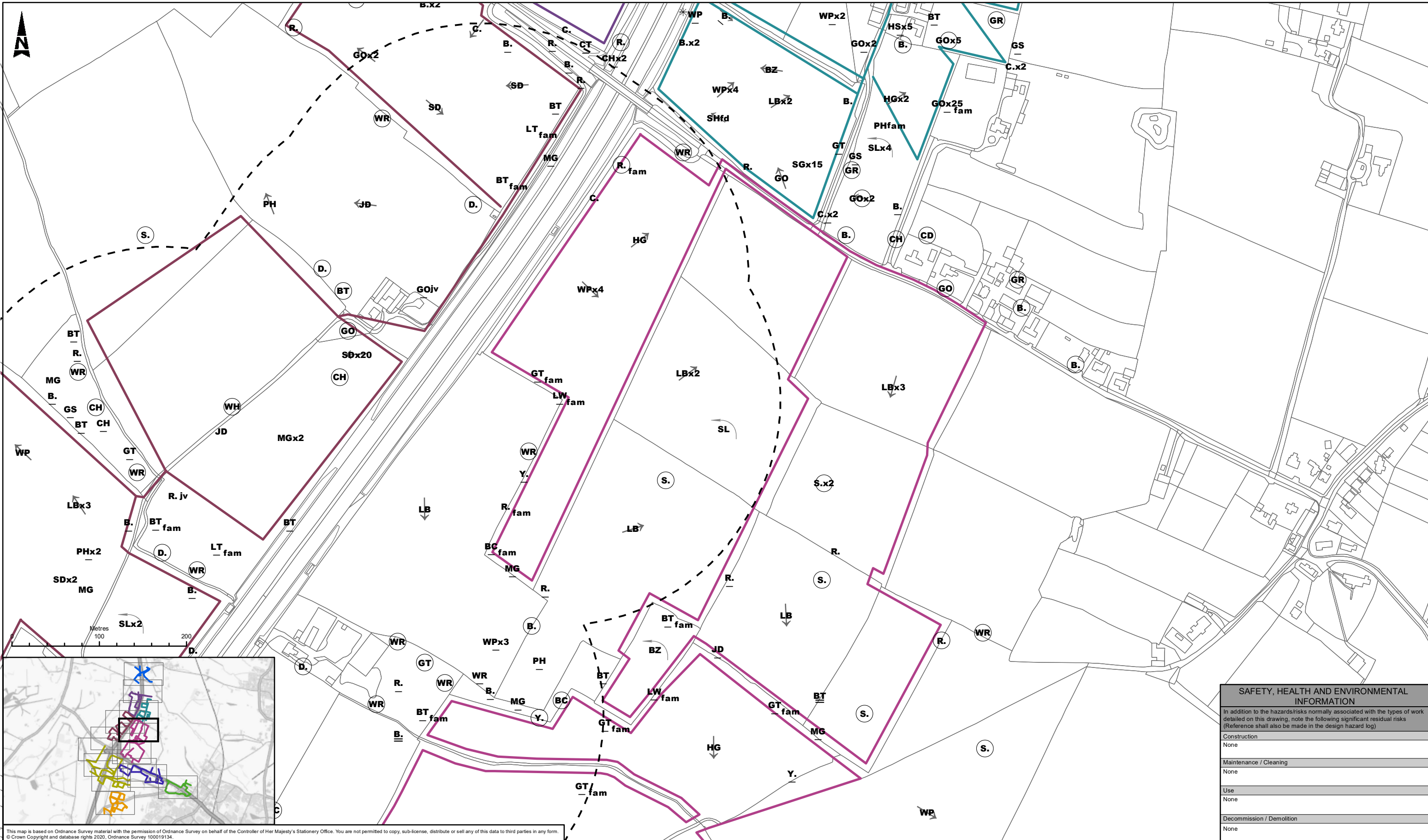


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Maintenance / Cleaning	None
Use	None
Decommission / Demolition	None

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BC	BLACKCAP
BT	BLUE TIT
BZ	BUZZARD
C.	CARRION CROW
CC	CHIFFCHAFF
CD	COLLARED DOVE
CH	CHAFFINCH
CT	COAL TIT
D.	DUNNOCK
FP	FERAL PIGEON
G.	GREEN WOODPECKER
GC	GOLDCREST
GL	GREY WAGTAIL
GO	GOLDFINCH
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PH	PHEASANT
R.	ROBIN
S.	SKYLARK
SD	STOCK DOVE
SG	STARLING
SH	SPARROWHAWK
SI	SWIFT
SL	SWALLOW
ST	SONG THRUSH
WP	WOOD PIGEON
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WR	WREN
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YW	YELLOW WAGTAIL

Description		Drawing Suitability	Status	Project Title														
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Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date												
PUBLISHED						01/05/23												



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Use	None
Decommission / Demolition	None

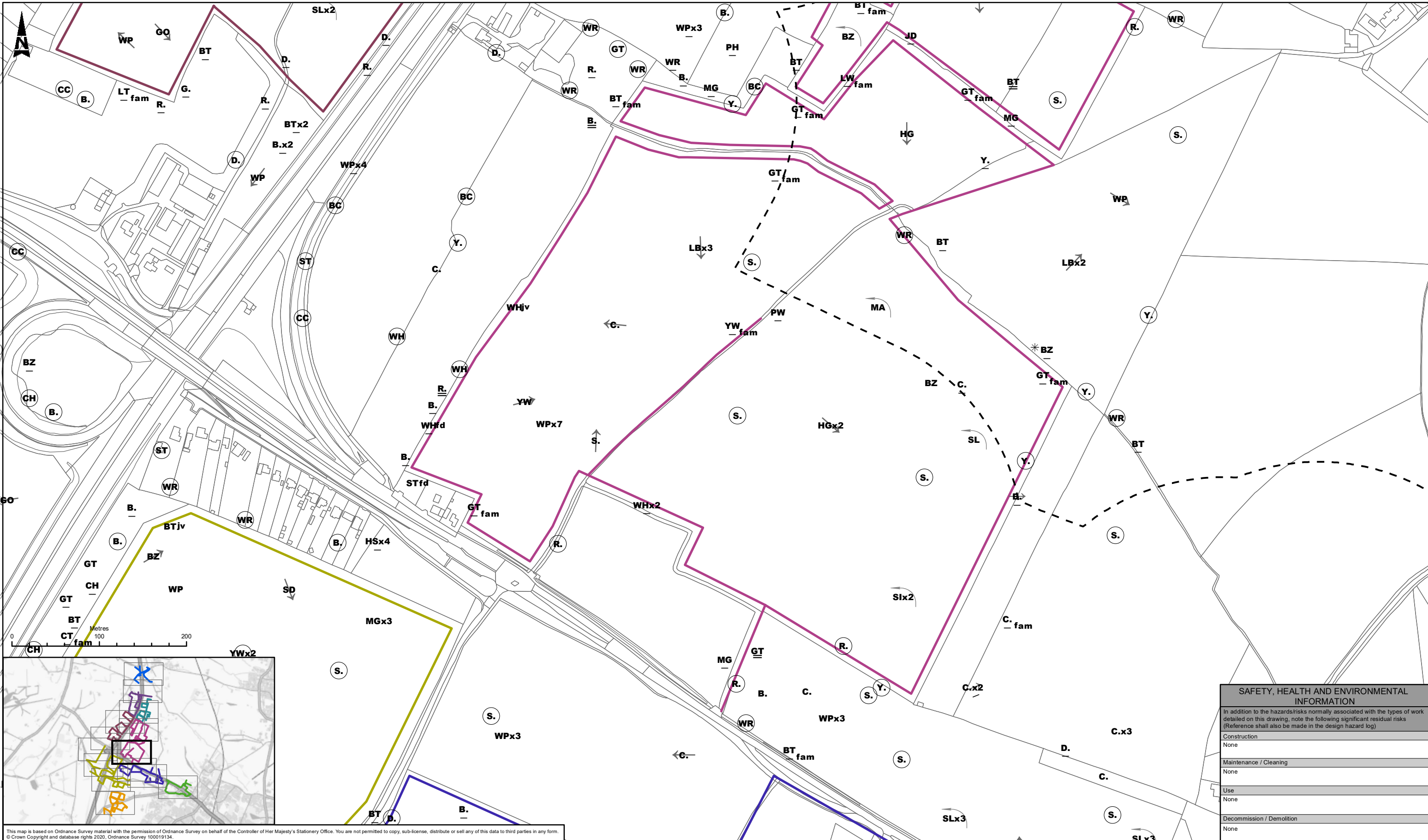
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	TRANSECT 8
	TRANSECT 9
	ALARM CALL
	CALLING
	CARRYING FOOD
	CARRYING NEST MATERIAL
	FAMILY
	FLYING
	FORAGING IN FLIGHT
	JUVENILE
	OCCUPIED NEST
	SINGING
SPECIES (BTO CODES)	
B.	BLACKBIRD
BC	BLACKCAP
BT	BLUE TIT
BZ	BUZZARD
C.	CARRION CROW
CC	CHIFFCHAFF
CD	COLLARED DOVE
CH	CHAFFINCH
CT	COAL TIT
D.	DUNNOCK
FP	FERAL PIGEON
G.	GREEN WOODPECKER
GC	GOLDCREST
GL	GREY WAGTAIL
GO	GOLDFINCH
GR	GREENFINCH
GS	GREAT SPOTTED WOODPECKER
GT	GREAT TIT
H.	GREY HERON
HG	HERRING GULL
HM	HOUSE MARTIN
HS	HOUSE SPARROW
HY	HOBBY
J.	JAY
JD	JACKDAW
LB	LESSER BLACK-BACKED GULL
LI	LINNET
LT	LONG-TAILED TIT
LW	LESSER WHITETHROAT
MG	MAGPIE
PW	PIED WAGTAIL
PH	PHEASANT
R.	ROBIN
S.	SKYLARK
SD	STOCK DOVE
SG	STARLING
SH	SPARROWHAWK
SI	SWIFT
SL	SWALLOW
ST	SONG THRUSH
WP	WOOD PIGEON
WH	WHITETHROAT
WR	WREN
Y.	YELLOWHAMM...
YW	YELLOW WAGTAIL

Description	Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date
PUBLISHED	A1	P03	SD	RD	CC	LJ	01/05/23

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Project Title		M5 Junction 10 Improvements Scheme	
Drawing Title		FIGURE 7-8A BREEDING BIRD SURVEY RESULTS JUNE 2019	
Project	Originator	Volume	
GCCM5J10 - ATK - EBD	ZZ - GS - GI - 000018		
Location	Type	Role	Number
A3	1:4,000	Ref: 5214106	4 of 14
Original Size:	Scale	Project Ref:	Sheet
A3	1:4,000	5214106	4 of 14
Rev:			P03



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SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION	
In addition to the hazards/risks normally associated with the types of work detailed on this drawing, note the following significant residual risks (Reference shall also be made in the design hazard log)	
Construction	None
Maintenance / Cleaning	None
Use	None
Decommission / Demolition	None

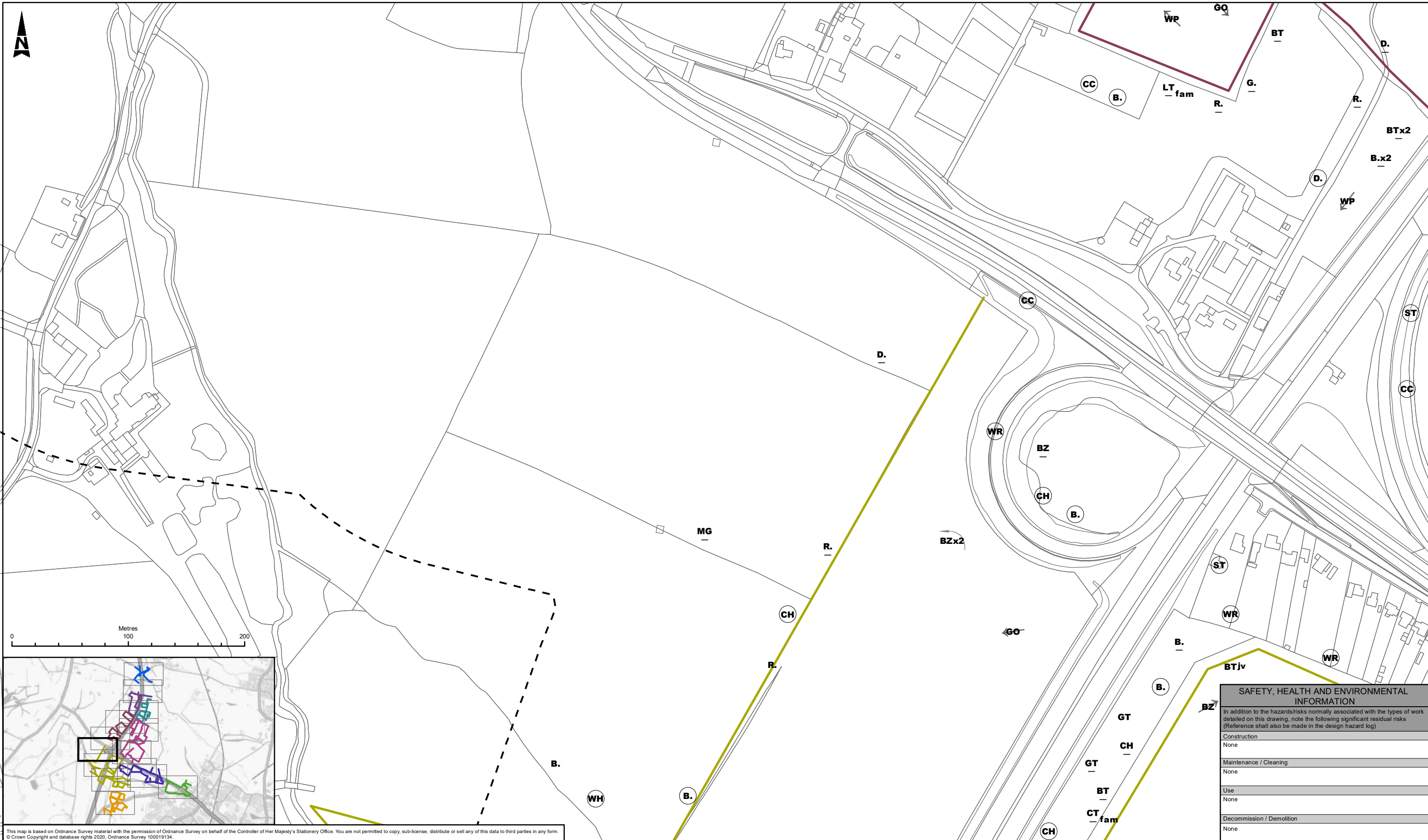
LEGEND	
	250M STUDY AREA
	TRANSECT 1
	TRANSECT 2
	TRANSECT 3
	TRANSECT 4
	TRANSECT 5
	TRANSECT 6
	TRANSECT 7
	TRANSECT 8
	TRANSECT 9
	ALARM CALL
	CALLING
	CARRYING FOOD
	CARRYING NEST MATERIAL
	FAMILY
	FLYING
	FORAGING IN FLIGHT
	JUVENILE
	OCCUPIED NEST
	SINGING
SPECIES (BTO CODES)	
B.	BLACKBIRD
BC	BLACKCAP
BT	BLUE TIT
BZ	BUZZARD
C.	CARRION CROW
CC	CHIFFCHAFF
CD	COLLARED DOVE
CH	CHAFFINCH
CT	COAL TIT
D.	DUNNOCK
FP	FERAL PIGEON
G.	GREEN WOODPECKER
GC	GOLDCREST
GL	GREY WAGTAIL
GO	GOLDFINCH
GR	GREENFINCH
GS	GREAT SPOTTED WOODPECKER
GT	GREAT TIT
H.	GREY HERON
HG	HERRING GULL
HM	HOUSE MARTIN
HS	HOUSE SPARROW
HY	HOBBY
J.	JAY
JD	JACKDAW
LB	LESSER BLACK-BACKED GULL
LI	LINNET
LT	LONG-TAILED TIT
LW	LESSER WHITETHROAT
MG	MAGPIE
PW	PIED WAGTAIL
PH	PHEASANT
R.	ROBIN
S.	SKYLARK
SD	STOCK DOVE
SG	STARLING
SH	SPARROWHAWK
SI	SWIFT
SL	SWALLOW
ST	SONG THRUSH
WP	WOOD PIGEON
WH	WHITETHROAT
WR	WREN
Y.	YELLOWHAMM...
YW	YELLOW WAGTAIL

Description	Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date
PUBLISHED	A1	P03	SD	RD	CC	LJ	01/05/23

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Project Title	M5 Junction 10 Improvements Scheme
Drawing Title	FIGURE 7-8A BREEDING BIRD SURVEY RESULTS JUNE 2019
Drawing Number	Project: GCCM5J10 - ATK - EBD Originator: ZZ - GS - GI - 000018 Volume: 5 of 14
Original Size	A3
Scale	1:4,000
Project Ref.	5214106
Sheet	5 of 14
Rev.	P03



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LEGEND		FORAGING IN FLIGHT		SPECIES (BTO CODES)	
- - -	250M STUDY AREA	-	JUVENILE	C.	CARRION CROW
[Blue line]	TRANSECT 1	*	OCCUPIED NEST	CC	CHIFFCHAFF
[Purple line]	TRANSECT 2	○	SINGING	CD	COLLARED DOVE
[Green line]	TRANSECT 3			CH	CHAFFINCH
[Pink line]	TRANSECT 4			CT	COAL TIT
[Yellow line]	TRANSECT 5			D.	DUNNOCK
[Blue line]	TRANSECT 6			FP	FERAL PIGEON
[Green line]	TRANSECT 7			G.	GREEN WOODPECKER
[Orange line]	TRANSECT 8			GL	GOLDFINCH
[Red line]	TRANSECT 9			GR	GREYFINCH
[Red line]	ALARM CALL			GS	GREAT SPOTTED WOODPECKER
[Red line]	CALLING			GT	GREAT TIT
[Red line]	CARRYING FOOD			H.	GREY HERON
[Red line]	CARRYING NEST MATERIAL			HG	HERRING GULL
[Red line]	FAMILY			HM	HOUSE MARTIN
[Red line]	FLYING			G.	GREY WAGTAIL
				HS	HOUSE SPARROW
				HY	HOBBY
				J.	JAY
				JD	JACKDAW
				LB	LESSER BLACK-BACKED GULL
				LI	LINNET
				LT	LONG-TAILED TIT
				LW	LESSER WHITETHROAT
				MG	MAGPIE
				PW	PIED WAGTAIL
				PH	PHEASANT
				R.	ROBIN
				S.	SKYLARK
				SD	STOCK DOVE
				SG	STARLING
				SH	SPARROWHAWK
				SI	SWIFT
				SL	SWALLOW
				ST	SONG THRUSH
				WP	WOOD PIGEON
				WH	WHITETHROAT
				WR	WREN
				Y.	YELLOWHAMM...
				YW	YELLOW WAGTAIL

Description	Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date
PUBLISHED	A1	P03	SD	RD	CC	LJ	01/05/23

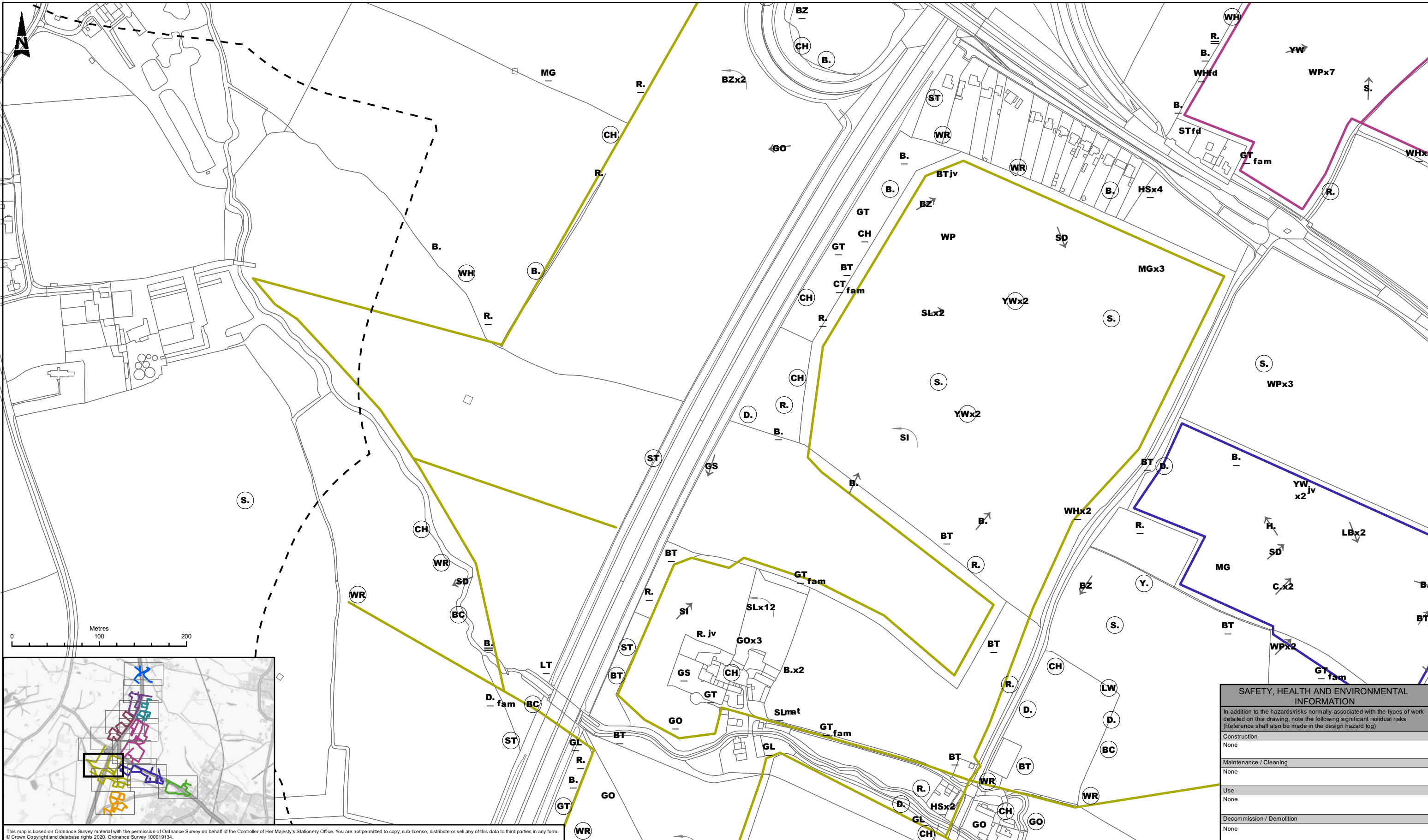
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SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION	
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Construction	None
Maintenance / Cleaning	None
Use	None
Decommission / Demolition	None

Project Title	M5 Junction 10 Improvements Scheme
Drawing Title	FIGURE 7-8A BREEDING BIRD SURVEY RESULTS JUNE 2019
Drawing Number	Project: GCCM5J10 - ATK - EBD Originator: ZZ - GS - GI - 000018 Volume: 6 of 14
Original Size: A3	Scale: 1:3,000 Project Ref: 5214106 Sheet: 6 of 14 Rev: P03



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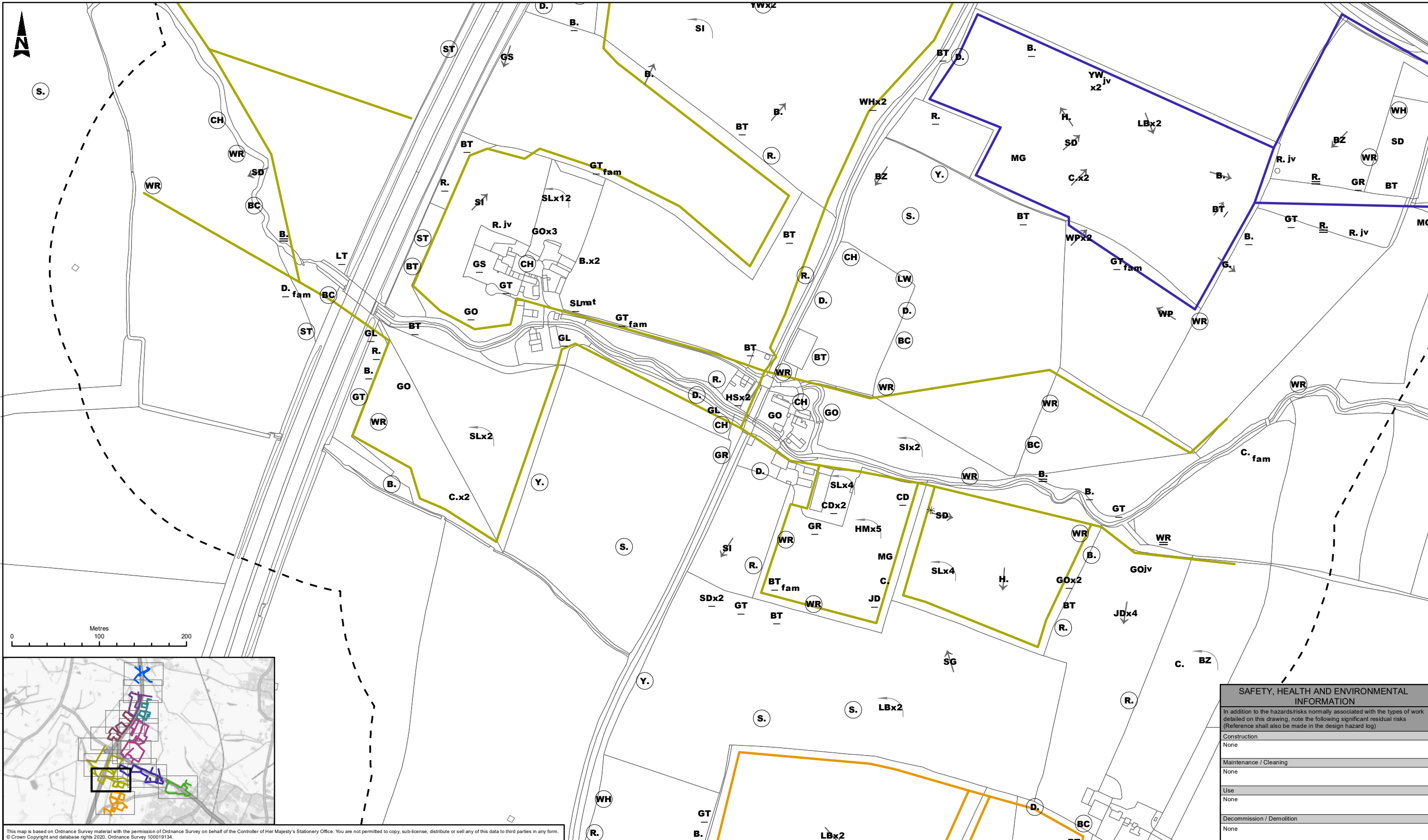
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Construction	None
Maintenance / Cleaning	None
Use	None
Decommission / Demolition	None

LEGEND													
	250M STUDY AREA		TRANSECT 9		FORAGING IN FLIGHT	C.	CARRION CROW	GL	GREY WAGTAIL	HS	HOUSE SPARROW		
	TRANSECT 1		ALARM CALL		JV	JUVENILE	CC	CHIFFCHAFF	GO	GOLDFINCH	LW	LESSER WHITETHROAT	
	TRANSECT 2		CALLING		*	OCCUPIED NEST	CD	COLLARED DOVE	GR	GREENFINCH	MG	MAGPIE	
	TRANSECT 3		CARRYING FOOD		○	SINGING	CH	CHAFFINCH	GS	GREAT SPOTTED WOODPECKER	PW	PIED WAGTAIL	
	TRANSECT 4		CARRYING NEST MATERIAL		○	SINGING	CT	COAL TIT	GT	GREAT TIT	PH	PHEASANT	
	TRANSECT 5		FLYING	SPECIES (BTO CODES)			D.	DUNNOCK	H.	GREY HERON	R.	ROBIN	
	TRANSECT 6			B.	BLACKBIRD	BC	BLACKCAP	BT	BLUE TIT	LI	LINNET	S.	SKYLARK
	TRANSECT 7			BT	BLUE TIT	BT	HOUSE MARTIN	LT	LONG-TAILED TIT	SG	STARLING	SD	STOCK DOVE
	TRANSECT 8			BZ	BUZZARD	GC	GOLDCREST	GO	GOLDFINCH	SH	SPARROWHAWK	SI	SWIFT
				SL	SWALLOW	SL	SWALLOW	ST	SONG THRUSH	WP	WOOD PIGEON	WH	WHITETHROAT
				WR	WREN	WR	WREN	Y.	YELLOWHAMM...	YW	YELLOW WAGTAIL		

Description		Drawing Suitability		Status		Project Title	
Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date	
PUBLISHED						01/05/23	
Description		Drawing Suitability		Status		Project Title	
PUBLISHED		PUBLISHED		A1		M5 Junction 10 Improvements Scheme	
Description		Drawing Suitability		Status		Project Title	
PUBLISHED		PUBLISHED		A1		FIGURE 7-8A BREEDING BIRD SURVEY RESULTS JUNE 2019	
Description		Drawing Suitability		Status		Project Title	
PUBLISHED		PUBLISHED		A1		GCCM5J10 - ATK - EBD ZZ - GS - GI - 000018	
Description		Drawing Suitability		Status		Project Title	
PUBLISHED		PUBLISHED		A1		7 of 14	

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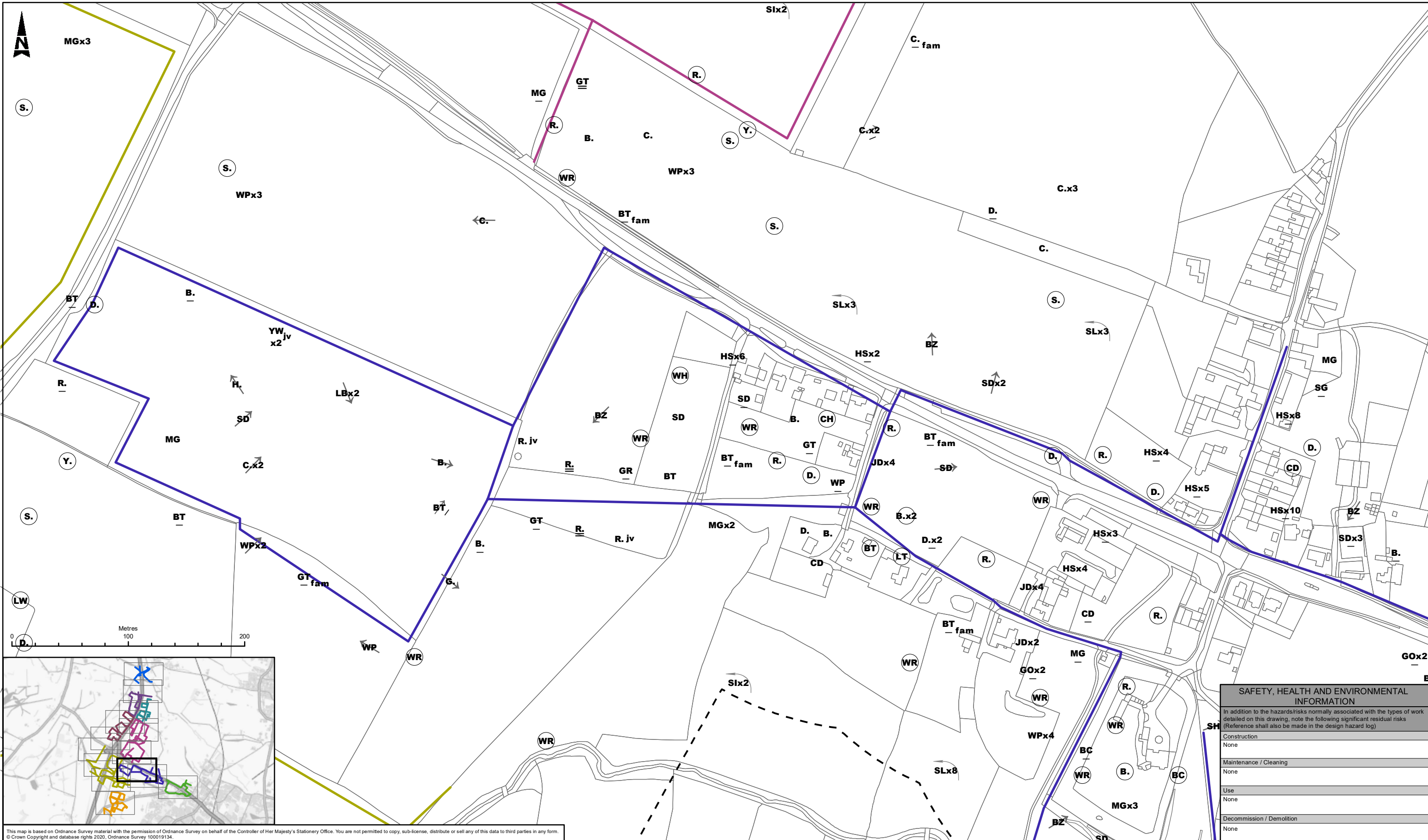


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SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION	
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Construction	None
Maintenance / Cleaning	None
Use	None
Decommission / Demolition	None

LEGEND	
	250M STUDY AREA
	TRANSECT 1
	TRANSECT 2
	TRANSECT 3
	TRANSECT 4
	TRANSECT 5
	TRANSECT 6
	TRANSECT 7
	TRANSECT 8
	TRANSECT 9
	ALARM CALL
	CALLING
	CARRYING FOOD
	CARRYING NEST MATERIAL
	FAMILY
	FLYING
	FORAGING IN FLIGHT
	JUVENILE
	OCCUPIED NEST
	SINGING
SPECIES (BTO CODES)	
B.	BLACKBIRD
BC	BLACKCAP
BT	BLUE TIT
BZ	BUZZARD
C.	CARRION CROW
CC	CHIFFCHAFF
CD	COLLARED DOVE
CH	CHAFFINCH
CT	COAL TIT
D.	DUNNOCK
FP	FERAL PIGEON
G.	GREEN WOODPECKER
GC	GOLDCREST
GL	GREY WAGTAIL
GO	GOLDFINCH
GR	GREENFINCH
GS	GREAT SPOTTED WOODPECKER
GT	GREAT TIT
H.	GREY HERON
HG	HERRING GULL
HM	HOUSE MARTIN
HS	HOUSE SPARROW
HY	HOBBY
J.	JAY
JD	JACKDAW
LB	LESSER BLACK-BACKED GULL
LI	LINNET
LT	LONG-TAILED TIT
LW	LESSER WHITETHROAT
MG	MAGPIE
PW	PIED WAGTAIL
PH	PHEASANT
R.	ROBIN
S.	SKYLARK
SD	STOCK DOVE
SG	STARLING
SH	SPARROWHAWK
SI	SWIFT
SL	SWALLOW
ST	SONG THRUSH
WP	WOOD PIGEON
WH	WHITETHROAT
WR	WREN
Y.	YELLOWHAMM...
YW	YELLOW WAGTAIL

Description		Drawing Suitability		Status		Project Title	
Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date	M5 Junction 10 Improvements Scheme
Description		PUBLISHED		A1		Figure 7-8A BREEDING BIRD SURVEY RESULTS JUNE 2019	
Description		ATKINS		5th Floor, Block 5 Shire Hall Bearland Gloucester GL1 2TH Tel: 08000 514 514 www.atkinsglobal.com		Drawing Title	
Description		Member of the SNC-Lavalin Group		Copyright © Atkins Limited (2023)		Drawing Number	
Description		Client		Gloucestershire COUNTY COUNCIL		Project	
Description		PUBLISHED		A1		Original Size: A3	
Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date	Scale
A1	P03	SD	RD	CC	LJ	01/05/23	1:4,000
Project Ref:		Volume		Sheet		Rev:	
5214106		GCCM5J10 - ATK - EBD ZZ - GS - GI - 000018		8 of 14		P03	



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SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION	
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Construction	None
Maintenance / Cleaning	None
Use	None
Decommission / Demolition	None

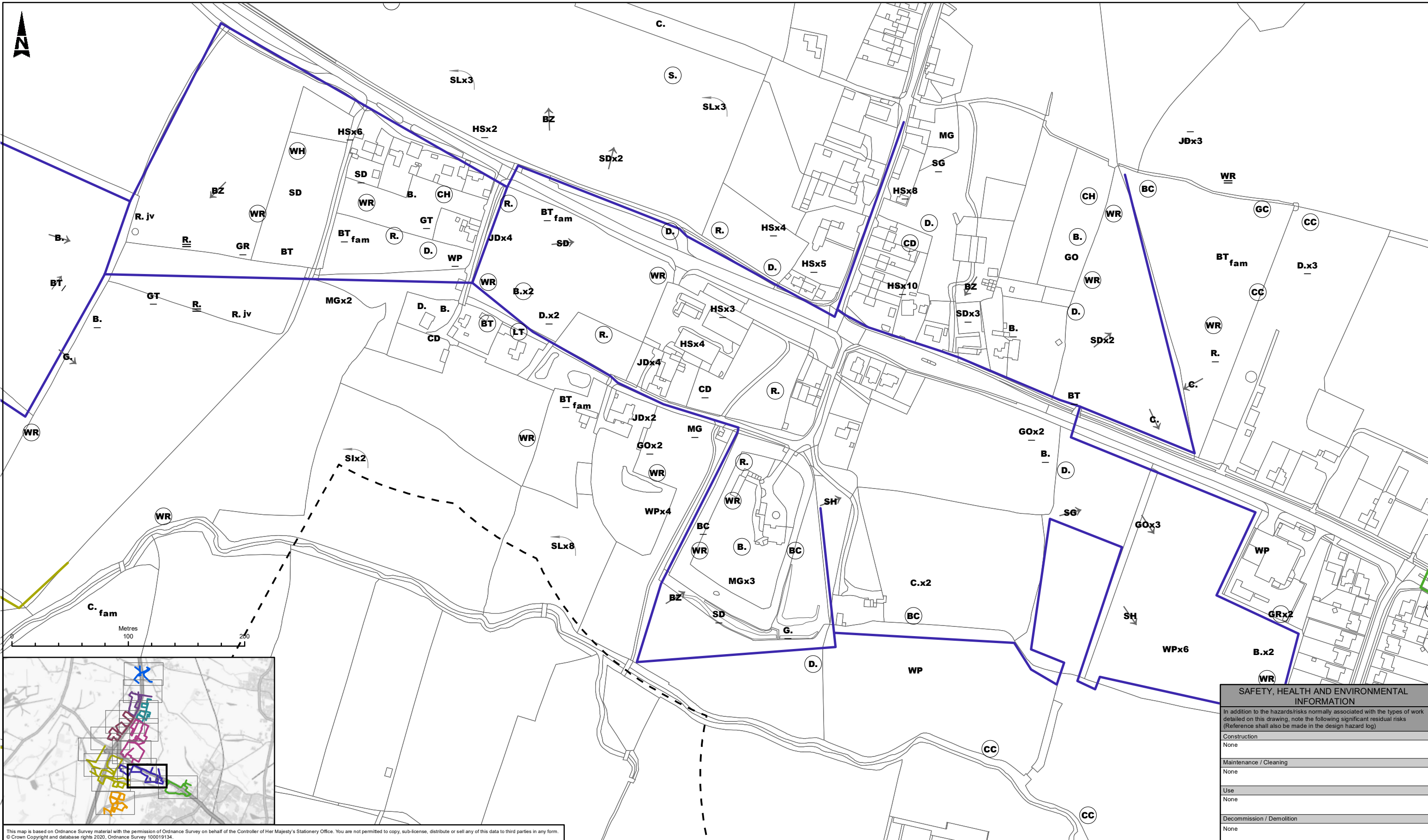
LEGEND		SPECIES (BTO CODES)	
--- 250M STUDY AREA	— TRANSECT 9	C. CARRION CROW	GL GREY WAGTAIL
— TRANSECT 1	BEHAVIOURS	CC CHIFFCHAFF	GO GOLDFINCH
— TRANSECT 2	— ALARM CALL	CD COLLARED DOVE	GR GREENFINCH
— TRANSECT 3	— CALLING	CH CHAFFINCH	GS GREAT SPOTTED WOODPECKER
— TRANSECT 4	— CARRYING FOOD	CT COAL TIT	GT GREAT TIT
— TRANSECT 5	— CARRYING NEST MATERIAL	D. DUNNOCK	H. GREY HERON
— TRANSECT 6	fam FAMILY	FP FERAL PIGEON	HG HERRING GULL
— TRANSECT 7	→ FLYING	G. GREEN WOODPECKER	HM HOUSE MARTIN
— TRANSECT 8		GC GOLDCREST	
	○ FORAGING IN FLIGHT		
	○ ju JUVENILE		
	* OCCUPIED NEST		
	○ SINGING		

Description	Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date
PUBLISHED	A1	P03	SD	RD	CC	LJ	01/05/23

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Project Title		M5 Junction 10 Improvements Scheme	
Drawing Title		FIGURE 7-8A BREEDING BIRD SURVEY RESULTS JUNE 2019	
Project	Originator	Volume	
GCCM5J10 - ATK - EBD	ZZ - GS - GI - 000018		
Location	Type	Role	Number
A3	1:3,000	Ref: 5214106	9 of 14
Original Size:	Scale	Project Ref:	Sheet
A3	1:3,000	5214106	9 of 14
Rev:			P03



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Use	None
Decommission / Demolition	None

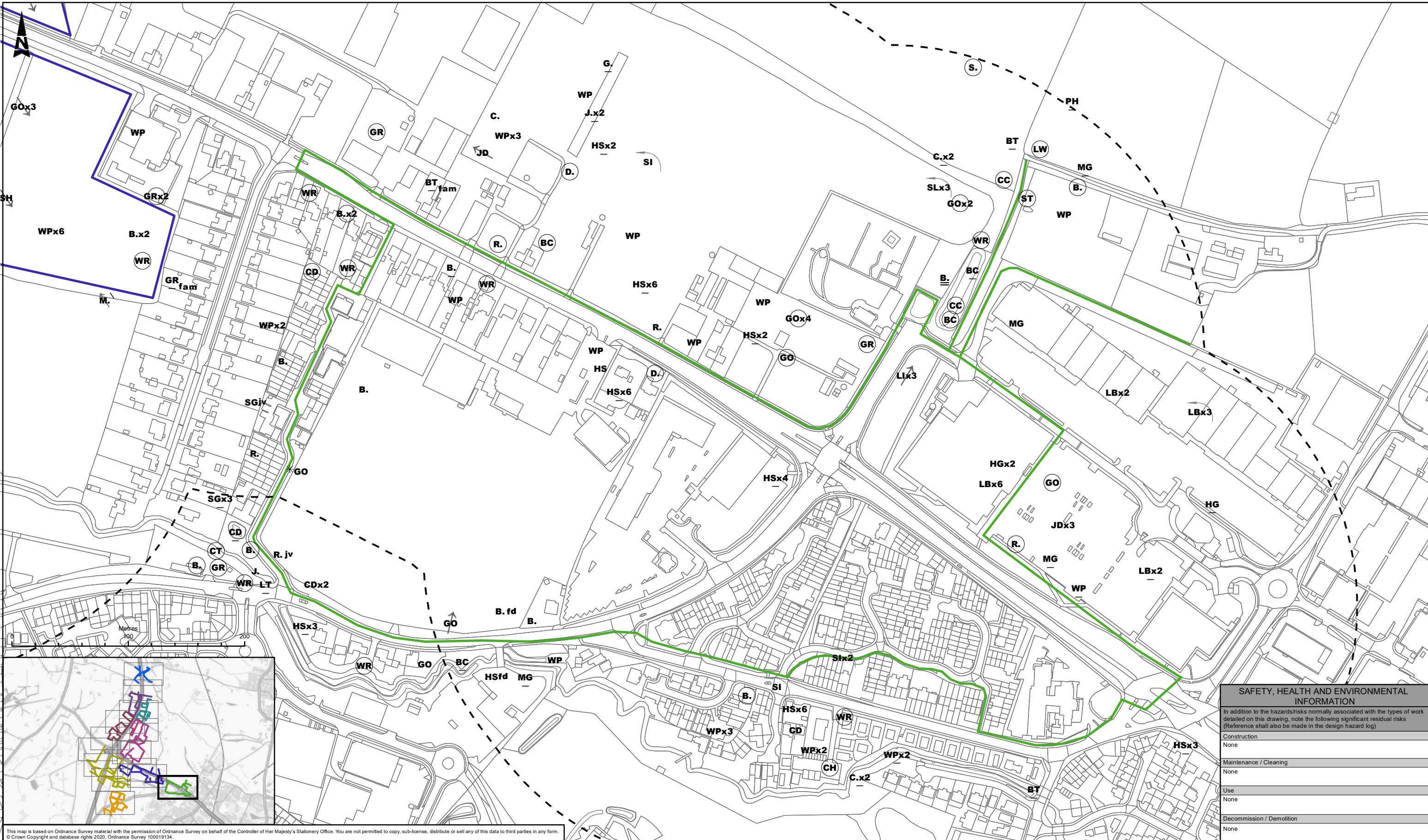
LEGEND	
	250M STUDY AREA
	TRANSECT 1-9
BEHAVIOURS	
	ALARM CALL
	CALLING
	CARRYING FOOD
	CARRYING NEST MATERIAL
	FLYING
	FORAGING IN FLIGHT
	JUVENILE
	OCCUPIED NEST
	SINGING
SPECIES (BTO CODES)	
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BC	BLACKCAP
BT	BLUE TIT
BZ	BUZZARD
C.	CARRION CROW
CC	CHIFFCHAFF
CD	COLLARED DOVE
CH	CHAFFINCH
CT	COAL TIT
D.	DUNNOCK
FP	FERAL PIGEON
G.	GREEN WOODPECKER
GC	GOLDCREST
GL	GREY WAGTAIL
GO	GOLDFINCH
GR	GREENFINCH
GS	GREAT SPOTTED WOODPECKER
GT	GREAT TIT
H.	GREY HERON
HG	HERRING GULL
HM	HOUSE MARTIN
HS	HOUSE SPARROW
HY	HOBBY
J.	JAY
JD	JACKDAW
LB	LESSER BLACK-BACKED GULL
LI	LINNET
LT	LONG-TAILED TIT
LW	LESSER WHITETHROAT
MG	MAGPIE
PW	PIED WAGTAIL
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R.	ROBIN
S.	SKYLARK
SD	STOCK DOVE
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SH	SPARROWHAWK
SI	SWIFT
SL	SWALLOW
ST	SONG THRUSH
WP	WOOD PIGEON
WH	WHITETHROAT
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Y.	YELLOWHAMM...
YW	YELLOW WAGTAIL

Description	Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date
PUBLISHED	A1	P03	SD	RD	CC	LJ	01/05/23

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Project Title	M5 Junction 10 Improvements Scheme
Drawing Title	FIGURE 7-8A BREEDING BIRD SURVEY RESULTS JUNE 2019
Drawing Number	Project: GCCM5J10 - ATK - EBD Originator: ZZ - GS - GI - 000018 Volume: 10 of 14
Original Size	A3
Scale	1:3,000
Project Ref	5214106
Sheet	10 of 14
Rev	P03



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Maintenance / Cleaning	None
Use	None
Decommission / Demolition	None

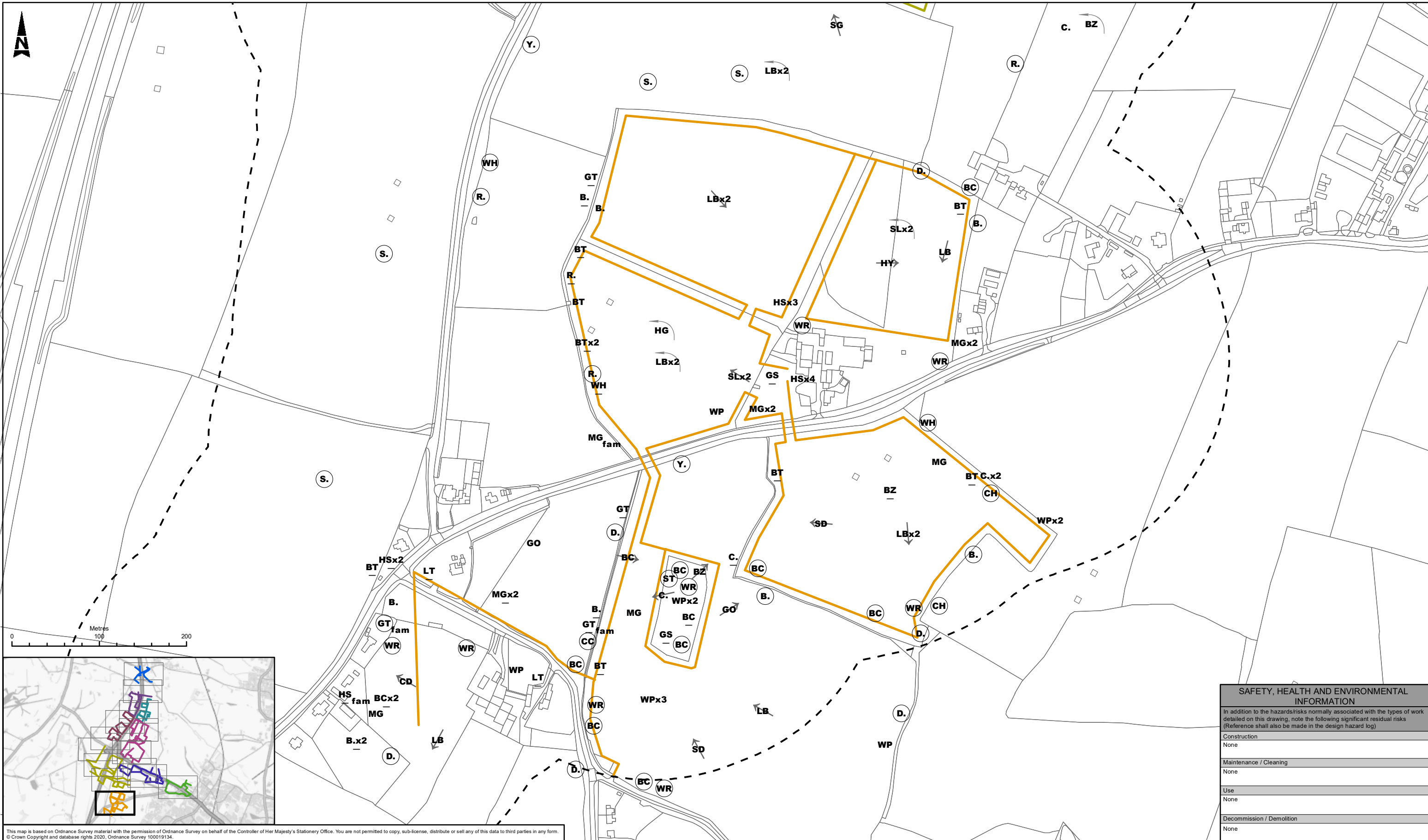
LEGEND	
	250M STUDY AREA
	TRANSECT 1
	TRANSECT 2
	TRANSECT 3
	TRANSECT 4
	TRANSECT 5
	TRANSECT 6
	TRANSECT 7
	TRANSECT 8
	TRANSECT 9
	ALARM CALL
	CALLING
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	CARRYING NEST MATERIAL
	FAMILY
	FLYING
	FORAGING IN FLIGHT
	JUVENILE
	OCCUPIED NEST
	SINGING
BEHAVIOURS	
fd	CARRYING FOOD
mat	CARRYING NEST MATERIAL
fam	FAMILY
→	FLYING
SPECIES (BTO CODES)	
B.	BLACKBIRD
BC	BLACKCAP
BT	BLUE TIT
BZ	BUZZARD
C.	CARRION CROW
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GR	GREENFINCH
GS	GREAT SPOTTED WOODPECKER
GT	GREAT TIT
H.	GREY HERON
HG	HERRING GULL
HM	HOUSE MARTIN
HS	HOUSE SPARROW
HY	HOBBY
J.	JAY
JD	JACKDAW
LB	LESSER BLACK-BACKED GULL
LI	LINNET
LT	LONG-TAILED TIT
LW	LESSER WHITETHROAT
MG	MAGPIE
PW	PIED WAGTAIL
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SG	STARLING
SH	SPARROWHAWK
SI	SWIFT
SL	SWALLOW
ST	SONG THRUSH
WP	WOOD PIGEON
WH	WHITETHROAT
WR	WREN
Y.	YELLOWHAMM...
YW	YELLOW WAGTAIL

Description	Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date
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Project Title		M5 Junction 10 Improvements Scheme	
Drawing Title		FIGURE 7-8A BREEDING BIRD SURVEY RESULTS JUNE 2019	
Project	Originator	Volume	
GCCM5J10 - ATK - EBD	ZZ - GS - GI - 000018		
Location	Type	Role	Number
A3	1:3,000	Ref: 5214106	11 of 14
Original Size:	Scale	Project Ref:	Sheet
A3	1:3,000	5214106	11 of 14
Rev:			P03



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Use	None
Decommission / Demolition	None

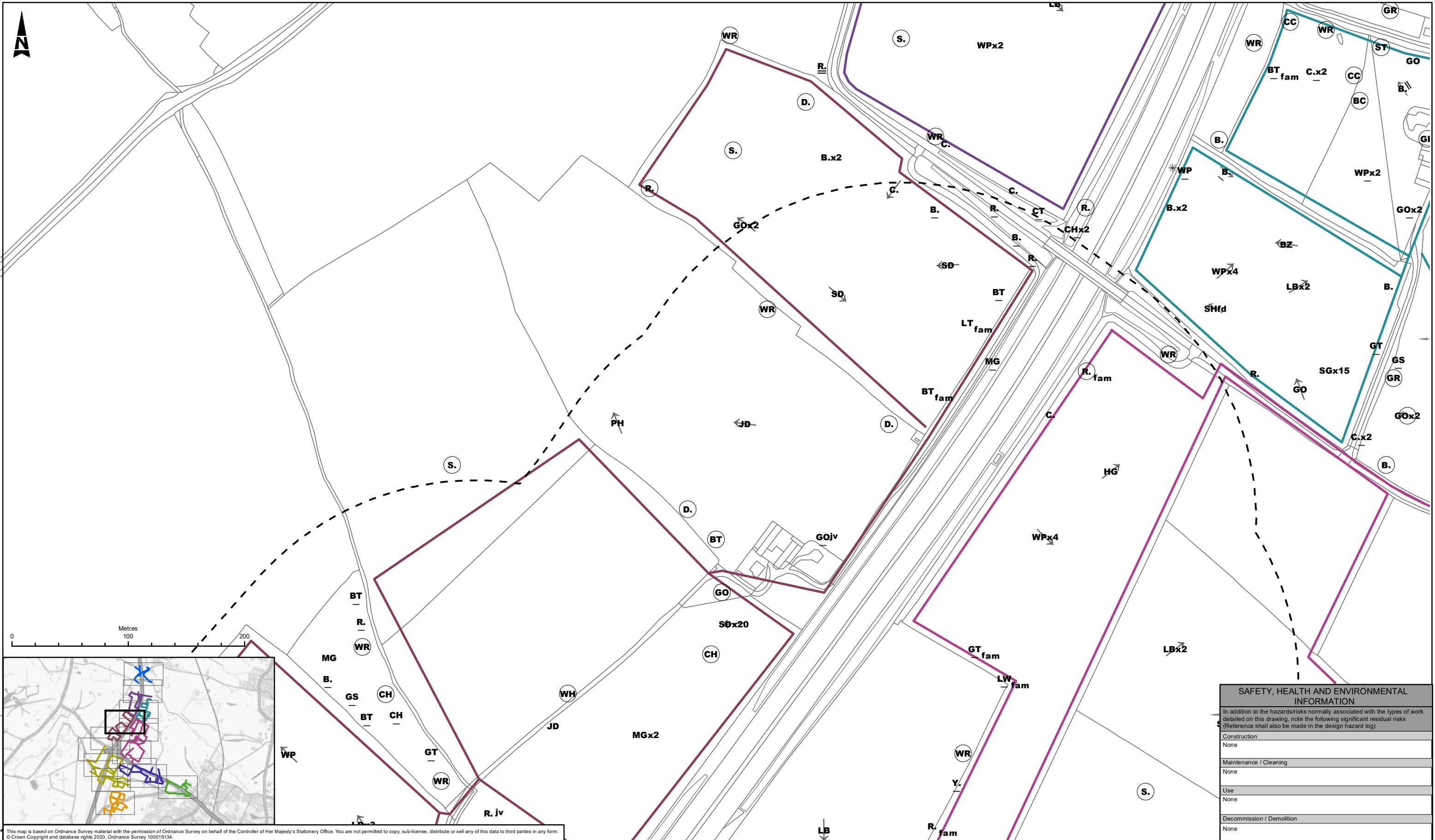
LEGEND	
	250M STUDY AREA
	TRANSECT 1
	TRANSECT 2
	TRANSECT 3
	TRANSECT 4
	TRANSECT 5
	TRANSECT 6
	TRANSECT 7
	TRANSECT 8
	TRANSECT 9
	ALARM CALL
	CALLING
	CARRYING FOOD
	CARRYING NEST MATERIAL
	FAMILY
	FLYING
	FORAGING IN FLIGHT
	JUVENILE
	OCCUPIED NEST
	SINGING
SPECIES (BTO CODES)	
B.	BLACKBIRD
BC	BLACKCAP
BT	BLUE TIT
BZ	BUZZARD
C.	CARRION CROW
CC	CHIFFCHAFF
CD	COLLARED DOVE
CH	CHAFFINCH
CT	COAL TIT
D.	DUNNOCK
FP	FERAL PIGEON
G.	GREEN WOODPECKER
GC	GOLDCREST
GL	GREY WAGTAIL
GO	GOLDFINCH
GR	GREENFINCH
GS	GREAT SPOTTED WOODPECKER
GT	GREAT TIT
H.	GREY HERON
HG	HERRING GULL
HM	HOUSE MARTIN
HS	HOUSE SPARROW
HY	HOBBY
J.	JAY
JD	JACKDAW
LB	LESSER BLACK-BACKED GULL
LI	LINNET
LT	LONG-TAILED TIT
LW	LESSER WHITETHROAT
MG	MAGPIE
PW	PIED WAGTAIL
PH	PHEASANT
R.	ROBIN
S.	SKYLARK
SD	STOCK DOVE
SG	STARLING
SH	SPARROWHAWK
SI	SWIFT
SL	SWALLOW
ST	SONG THRUSH
WP	WOOD PIGEON
WH	WHITETHROAT
WR	WREN
Y.	YELLOWHAMM...
YW	YELLOW WAGTAIL

Description						
Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date
PUBLISHED						

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Project Title		M5 Junction 10 Improvements Scheme	
Drawing Title		FIGURE 7-8A BREEDING BIRD SURVEY RESULTS JUNE 2019	
Drawing Number		GCCM5J10 - ATK - EBD ZZ - GS - GI - 000018	
Original Size: A3	Scale: 1:4,000	Project Ref: 5214106	Sheet: 12 of 14 Rev: P03



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SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION	
In addition to the hazards/risks normally associated with the types of work detailed on this drawing, note the following significant residual risks (Reference shall also be made in the design hazard log)	
Construction	None
Maintenance / Cleaning	None
Use	None
Decommission / Demolition	None

LEGEND		
	250M STUDY AREA	
	TRANSECT 9	
	TRANSECT 1	
	TRANSECT 2	
	TRANSECT 3	
	TRANSECT 4	
	TRANSECT 5	
	TRANSECT 6	
	TRANSECT 7	
	TRANSECT 8	
	ALARM CALL	
	CALLING	
	CARRYING FOOD	
	CARRYING NEST MATERIAL	
	FAMILY	
	FLYING	
	FORAGING IN FLIGHT	
	JUVENILE	
	OCCUPIED NEST	
	SINGING	
SPECIES (BTO CODES)		
B.	BLACKBIRD	
BC	BLACKCAP	
BT	BLUE TIT	
BZ	BUZZARD	
C.	CARRION CROW	
CC	CHIFFCHAFF	
CD	COLLARED DOVE	
CH	CHAFFINCH	
CT	COAL TIT	
D.	DUNNOCK	
FP	FERAL PIGEON	
G.	GREEN WOODPECKER	
GC	GOLDCREST	
GL	GREY WAGTAIL	
GO	GOLDFINCH	
GR	GREENFINCH	
GS	GREAT SPOTTED WOODPECKER	
GT	GREAT TIT	
H.	GREY HERON	
HG	HERRING GULL	
HM	HOUSE MARTIN	
HS	HOUSE SPARROW	
HY	HOBBY	
J.	JAY	
JD	JACKDAW	
LB	LESSER BLACK-BACKED GULL	
LI	LINNET	
LT	LONG-TAILED TIT	
LW	LESSER WHITETHROAT	
MG	MAGPIE	
PW	PIED WAGTAIL	
PH	PHEASANT	
R.	ROBIN	
S.	SKYLARK	
SD	STOCK DOVE	
SG	STARLING	
SH	SPARROWHAWK	
SI	SWIFT	
SL	SWALLOW	
ST	SONG THRUSH	
WP	WOOD PIGEON	
WH	WHITETHROAT	
WR	WREN	
Y.	YELLOWHAMM...	
YW	YELLOW WAGTAIL	

Description	Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date
PUBLISHED	A1	P03	SD	RD	CC	LJ	01/05/23

PUBLISHED

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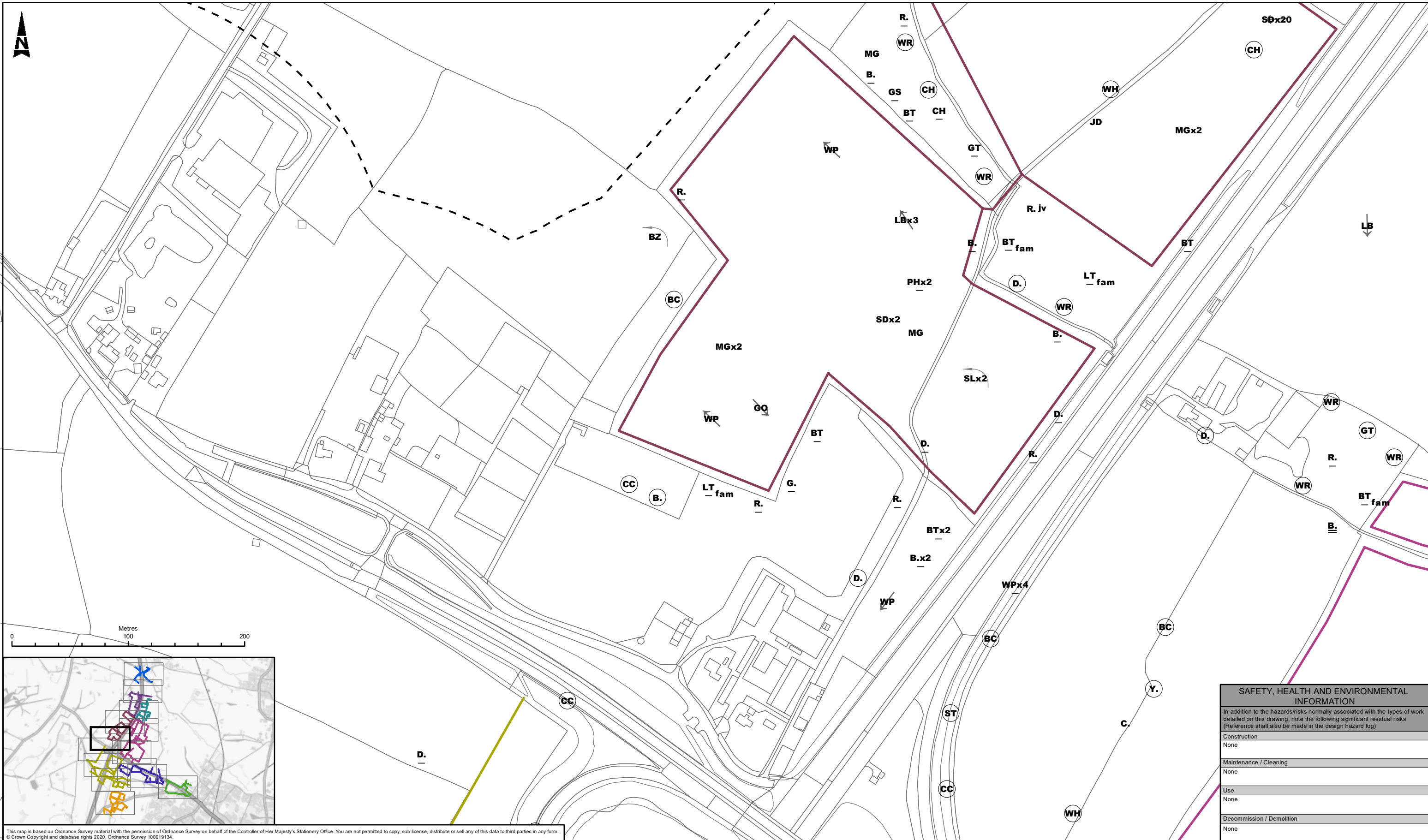
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Project Title		M5 Junction 10 Improvements Scheme			
Drawing Title		FIGURE 7-8A BREEDING BIRD SURVEY RESULTS JUNE 2019			
Drawing Number		Project	Originator	Volume	
GCCM5J10 - ATK - EBD		ZZ - GS - GI - 000018			
Original Size:	A3	Scale:	1:3,000	Project Ref:	5214106
Sheet:	13 of 14	Rev:	P03		



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SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION	
In addition to the hazards/risks normally associated with the types of work detailed on this drawing, note the following significant residual risks (Reference shall also be made in the design hazard log)	
Construction	None
Maintenance / Cleaning	None
Use	None
Decommission / Demolition	None

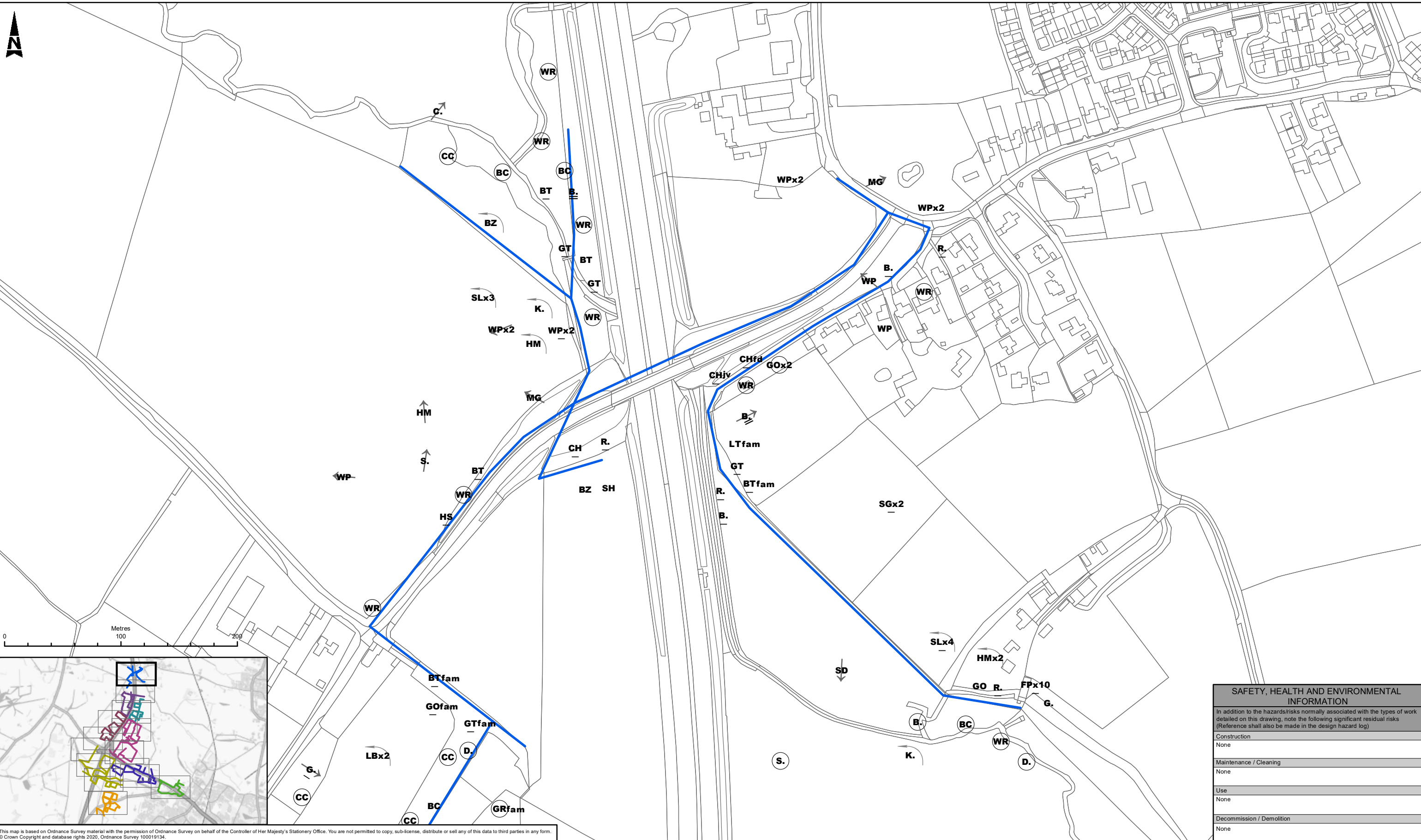
LEGEND	
	250M STUDY AREA
	TRANSECT 9
	TRANSECT 1
	TRANSECT 2
	TRANSECT 3
	TRANSECT 4
	TRANSECT 5
	TRANSECT 6
	TRANSECT 7
	TRANSECT 8
	ALARM CALL
	CALLING
	CARRYING FOOD
	CARRYING NEST MATERIAL
	FAMILY
	FLYING
	JUVENILE
	OCCUPIED NEST
	SINGING
	CARRION CROW
	CHIFFCHAFF
	COLLARED DOVE
	CHAFFINCH
	COAL TIT
	DUNNOCK
	FERAL PIGEON
	GREEN WOODPECKER
	BLACKBIRD
	BLACKCAP
	BLUE TIT
	BUZZARD
	GREY WAGTAIL
	GOLDFINCH
	GREENFINCH
	GREAT SPOTTED WOODPECKER
	GREAT TIT
	GREY HERON
	HERRING GULL
	HOUSE MARTIN
	HOUSE SPARROW
	HOBBY
	JAY
	JACKDAW
	LESSER BLACK-BACKED GULL
	LINNET
	LONG-TAILED TIT
	LESSER WHITETHROAT
	MAGPIE
	PIED WAGTAIL
	PHEASANT
	ROBIN
	SKYLARK
	STOCK DOVE
	STARLING
	SPARROWHAWK
	SWIFT
	SWALLOW
	SONG THRUSH
	WOOD PIGEON
	WHITETHROAT
	WREN
	YELLOWHAMM...
	YELLOW WAGTAIL

Description	Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date
PUBLISHED	A1	P03	SD	RD	CC	LJ	01/05/23

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Project Title		M5 Junction 10 Improvements Scheme	
Drawing Title		FIGURE 7-8A BREEDING BIRD SURVEY RESULTS JUNE 2019	
Project	Originator	Volume	
GCCM5J10 - ATK - EBD	ZZ - GS - GI - 000018		
Location	Type	Role	Number
A3	1:3,000	Ref: 5214106	14 of 14
Original Size:	Scale	Project Ref:	Sheet
A3	1:3,000	5214106	14 of 14
Status	Revision	Drawn	Checked
A1	P03	SD	RD
Reviewed	Authorised	Issue Date	
CC	LJ	01/05/23	



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LEGEND		SPECIES (BTO CODES)	
[] 250M STUDY AREA	— TRANSECT 9	— FORAGING IN FLIGHT	BT BLUE TIT
— TRANSECT 1	= ALARM CALL	ju JUVENILE	GO GOLDFINCH
— TRANSECT 2	— CALLING	* OCCUPIED NEST	GR GREENFINCH
— TRANSECT 3	fd CARRYING FOOD	○ SINGING	GS GREAT SPOTTED WOODPECKER
— TRANSECT 4	mat CARRYING NEST MATERIAL		GT GREAT TIT
— TRANSECT 5	fam FAMILY		HG HERRING GULL
— TRANSECT 6	→ FLYING		HM HOUSE MARTIN
— TRANSECT 7			HS HOUSE SPARROW
— TRANSECT 8			JD JACKDAW
			KT RED KITE
			LB LESSER BLACK-BACKED GULL
			LI LINNET
			LT LONG-TAILED TIT
			LW LESSER WHITETHROAT
			M. MISTLE THRUSH
			MA MALLARD
			MG MAGPIE
			MH MOORHEN
			PW PIED WAGTAIL
			PH PHEASANT
			R. ROBIN
			RO ROOK
			S. SKYLARK
			SD STOCK DOVE
			SG STARLING
			SH SPARROWHAWK
			SI SWIFT
			SL SWALLOW
			ST SONG THRUSH
			WH WHITETHROAT
			WP WOOD PIGEON
			WR WREN
			YW YELLOW WAGTAIL
			Y. YELLOWHAMM...

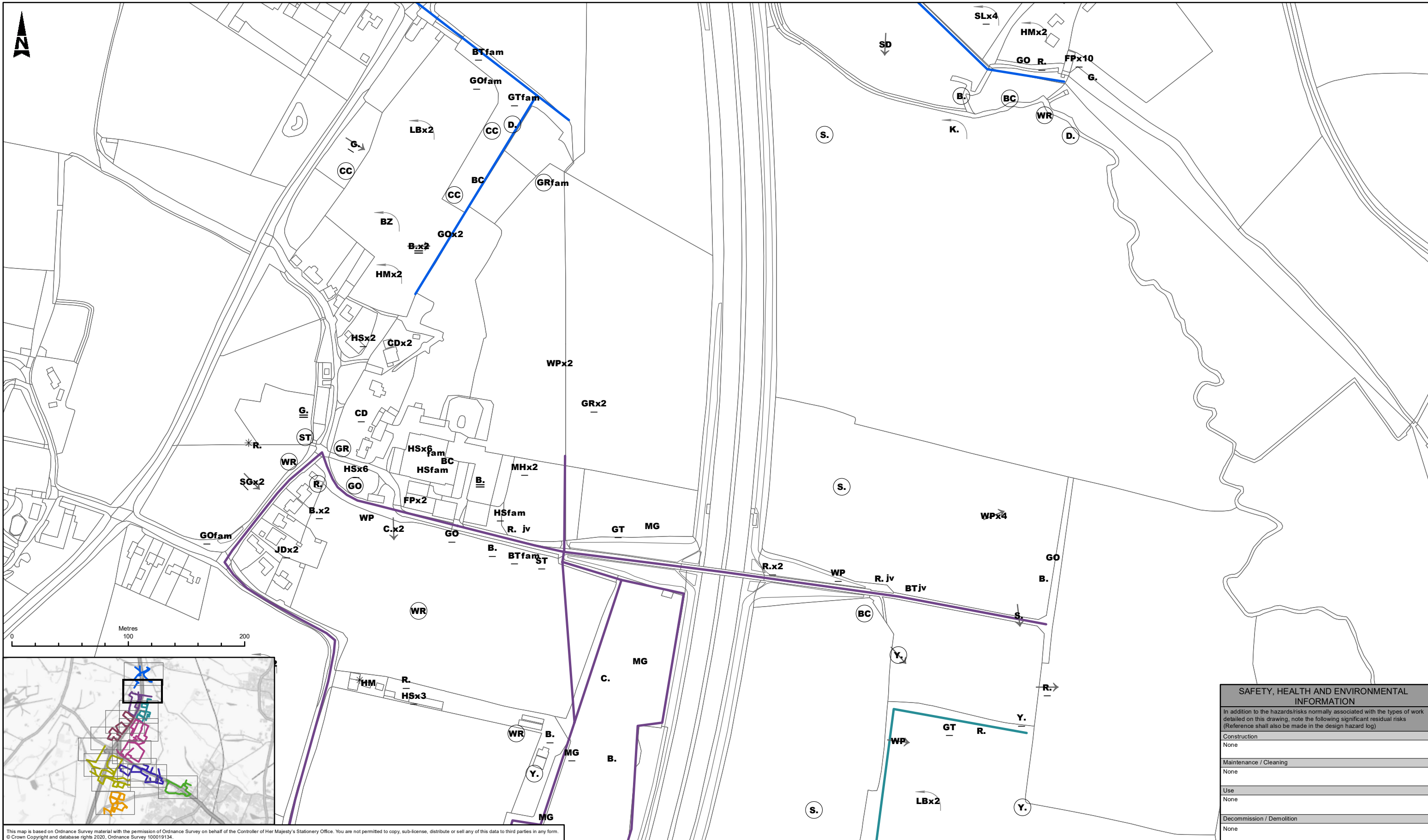
Description	Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date
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SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION	
Construction	None
Maintenance / Cleaning	None
Use	None
Decommission / Demolition	None

Project Title	
M5 Junction 10 Improvements Scheme	
Drawing Title	
FIGURE 7-8B BREEDING BIRD SURVEY RESULTS JULY 2019	
Drawing Number	
Project	Originator
GCCM5J10 - ATK - EBD	ZZ - GS - GI - 000019
Original Size	
A3	Scale
1:3,000	Project Ref: 5214106
Sheet	Number
1 of 14	P03



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SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION	
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Construction	None
Maintenance / Cleaning	None
Use	None
Decommission / Demolition	None

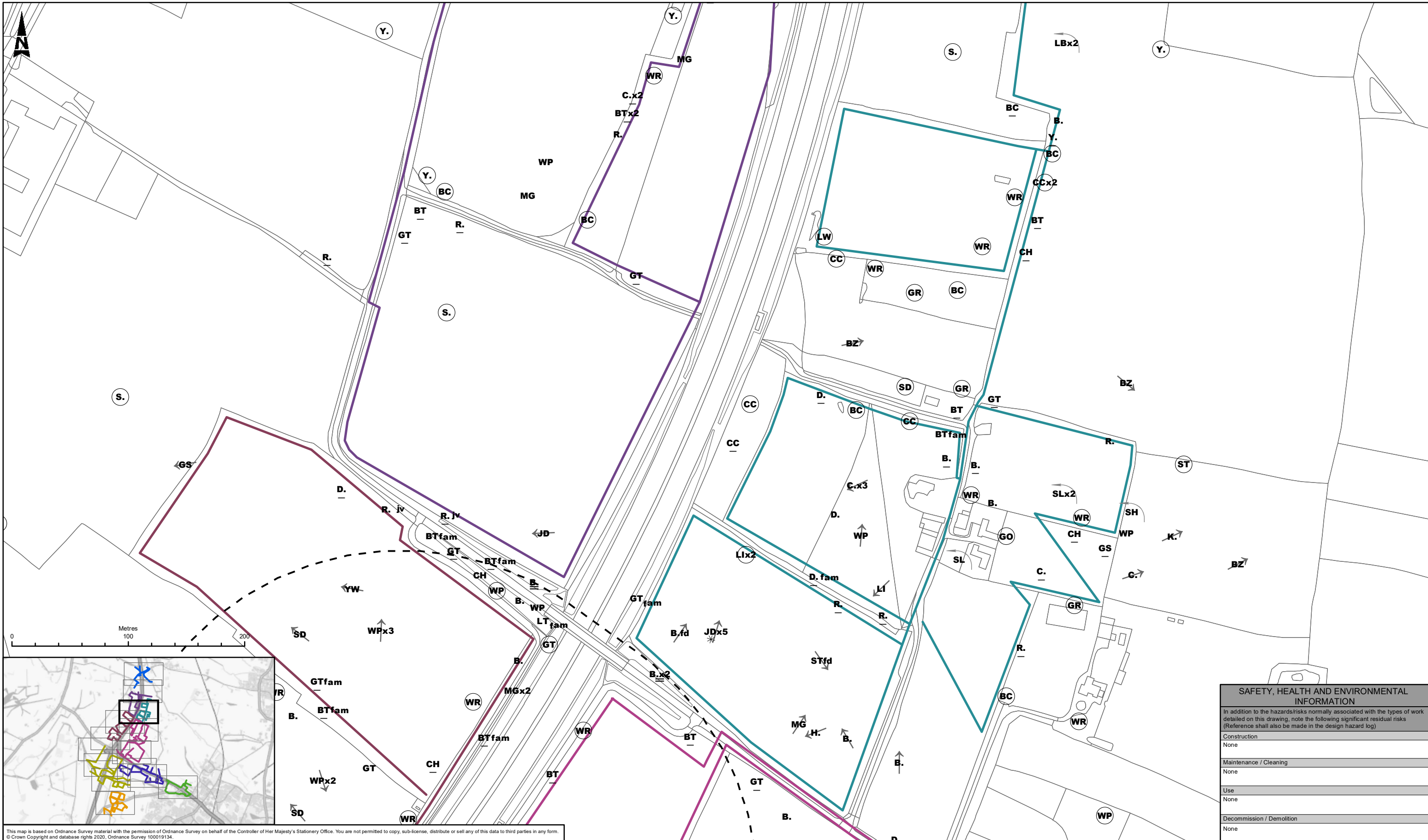
LEGEND	
	250M STUDY AREA
	TRANSECT 1 TRANSECT 2 TRANSECT 3 TRANSECT 4 TRANSECT 5 TRANSECT 6 TRANSECT 7 TRANSECT 8
	BEHAVIOURS = ALARM CALL - CALLING fd CARRYING FOOD mat CARRYING NEST MATERIAL fam FAMILY → FLYING
	FORAGING IN FLIGHT jv JUVENILE * OCCUPIED NEST ○ SINGING
	SPECIES (BTO CODES) B. BLACKBIRD BC BLACKCAP BH BLACK-HEADED GULL BT BLUE TIT BZ BUZZARD C. CARRION CROW CC CHIFFCHAFF CD COLLARED DOVE CH CHAFFINCH D. DUNNOCK FP FERAL PIGEON G. GREEN WOODPECKER GO GOLDFINCH GR GREENFINCH GS GREAT SPOTTED WOODPECKER GT GREAT TIT HG HERRING GULL HM HOUSE MARTIN HS HOUSE SPARROW JD JACKDAW KT RED KITE LESSER BLACK-BACKED GULL L I LINNET LT LONG-TAILED TIT LW LESSER WHITETHROAT M. MISTLE THRUSH MA MALLARD MG MAGPIE MH MOORHEN PW PIED WAGTAIL PH PHEASANT R. ROBIN RO ROOK SD SKYLARK S STOCK DOVE SG STARLING SH SPARROWHAWK S I SWIFT SL SWALLOW ST SONG THRUSH WH WHITETHROAT WP WOOD PIGEON WR WREN Y. YELLOW WAGTAIL YW YELLOWHAMM...

Description	Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date
PUBLISHED	A1	P03	SD	RD	CC	LJ	01/05/23

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Project Title		M5 Junction 10 Improvements Scheme	
Drawing Title		FIGURE 7-8B BREEDING BIRD SURVEY RESULTS JULY 2019	
Project	Originator	Volume	
GCCM5J10 - ATK - EBD	ZZ - GS - GI - 000019		
Location	Type	Role	Number
A3	1:3,000	Ref: 5214106	Sheet: 2 of 14 Rev: P03



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SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION	
In addition to the hazards/risks normally associated with the types of work detailed on this drawing, note the following significant residual risks (Reference shall also be made in the design hazard log)	
Construction	None
Maintenance / Cleaning	None
Use	None
Decommission / Demolition	None

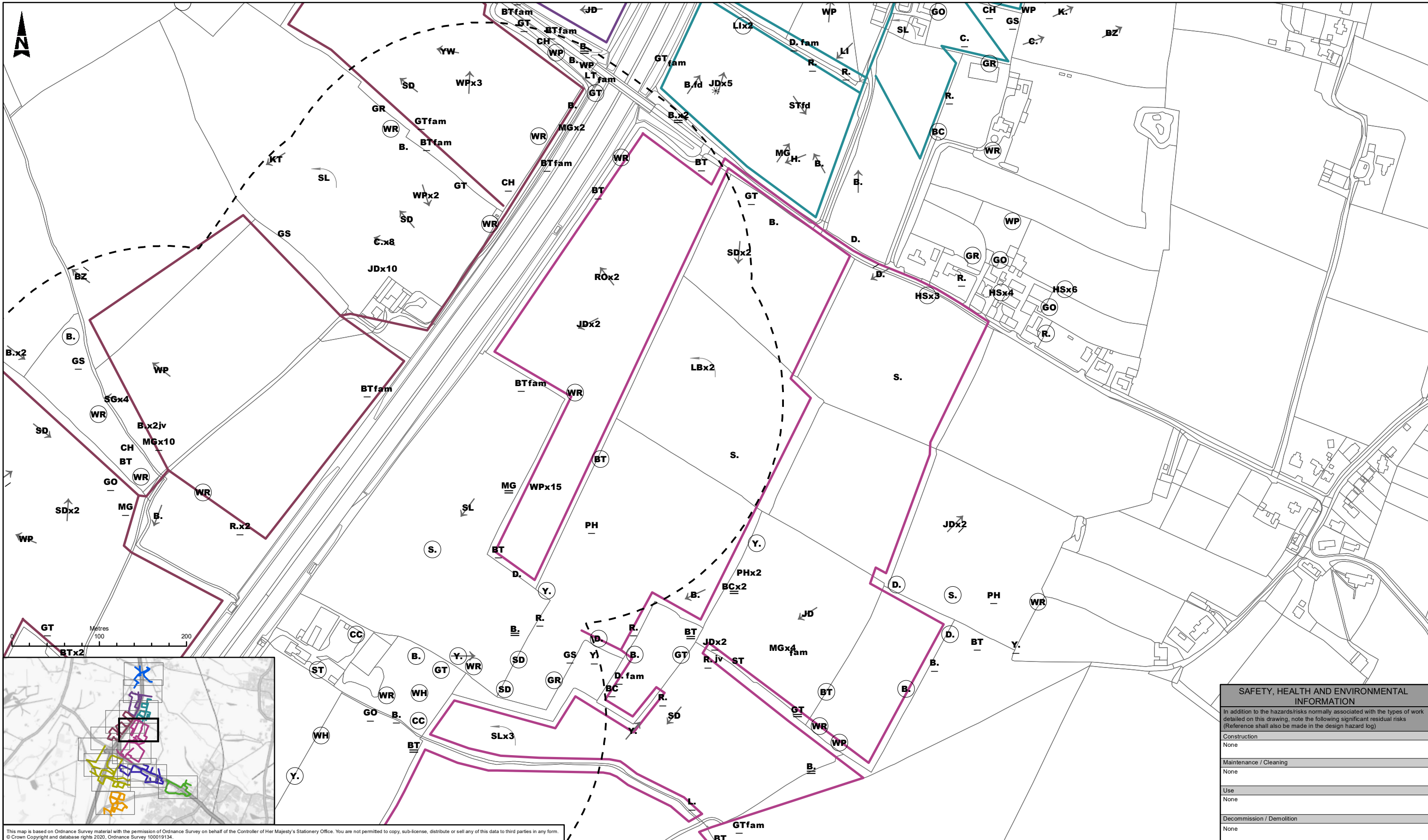
LEGEND	
	250M STUDY AREA
	TRANSECT 1 TRANSECT 2 TRANSECT 3 TRANSECT 4 TRANSECT 5 TRANSECT 6 TRANSECT 7 TRANSECT 8 TRANSECT 9
	BEHAVIOURS = ALARM CALL - CALLING fd CARRYING FOOD mat CARRYING NEST MATERIAL fam FAMILY → FLYING
	FORAGING IN FLIGHT ju JUVENILE * OCCUPIED NEST ○ SINGING
	SPECIES (BTO CODES) B. BLACKBIRD BC BLACKCAP BH BLACK-HEADED GULL BT BLUE TIT BZ BUZZARD C. CARRION CROW CC CHIFFCHAFF CD COLLARED DOVE CH CHAFFINCH D. DUNNOCK FP FERAL PIGEON G. GREEN WOODPECKER GO GOLDFINCH GR GREENFINCH GS GREAT SPOTTED WOODPECKER GT GREAT TIT HG HERRING GULL HM HOUSE MARTIN HS HOUSE SPARROW JD JACKDAW KT RED KITE LB LESSER BLACK-BACKED GULL LI LINNET LT LONG-TAILED TIT LW LESSER WHITETHROAT M. MISTLE THRUSH MA MALLARD MG MAGPIE MH MOORHEN PW PIED WAGTAIL PH PHEASANT R. ROBIN RO ROOK S. SKYLARK SD STOCK DOVE SG STARLING SH SPARROWHAWK SI SWIFT SL SWALLOW ST SONG THRUSH WH WHITETHROAT WP WOOD PIGEON WR WREN Y. YELLOW WAGTAIL YW YELLOWHAMM...

Description	Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date
PUBLISHED	A1	P03	SD	RD	CC	LJ	01/05/23

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Project Title		M5 Junction 10 Improvements Scheme	
Drawing Title		FIGURE 7-8B BREEDING BIRD SURVEY RESULTS JULY 2019	
Project	Originator	Volume	
GCCM5J10 - ATK - EBD	ZZ - GS - GI - 000019		
Location	Type	Role	Number
A3	1:3,000	Ref: 5214106	3 of 14
Original Size:	Scale	Project Ref:	Sheet Number
A3	1:3,000	5214106	3 of 14
Rev:			P03

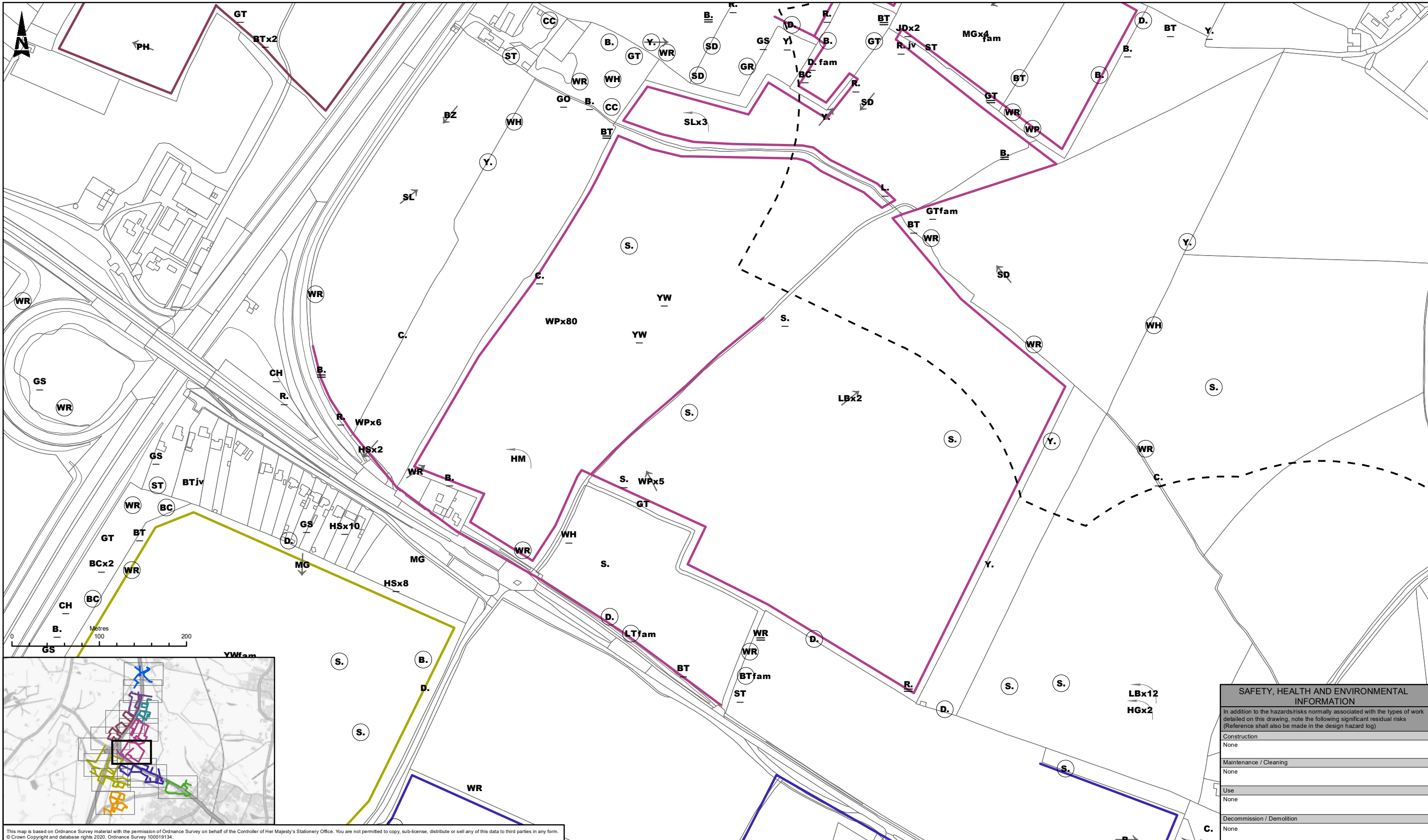


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SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION	
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Construction	None
Maintenance / Cleaning	None
Use	None
Decommission / Demolition	None

LEGEND	
	250M STUDY AREA
	TRANSECT 1 TRANSECT 2 TRANSECT 3 TRANSECT 4 TRANSECT 5 TRANSECT 6 TRANSECT 7 TRANSECT 8 TRANSECT 9
	BEHAVIOURS = ALARM CALL - CALLING fd CARRYING FOOD mat CARRYING NEST MATERIAL fam FAMILY → FLYING
	FORAGING IN FLIGHT jv JUVENILE * OCCUPIED NEST ○ SINGING
	SPECIES (BTO CODES) B. BLACKBIRD BC BLACKCAP BH BLACK-HEADED GULL BT BLUE TIT BZ BUZZARD C. CARRION CROW CC CHIFFCHAFF CD COLLARED DOVE CH CHAFFINCH D. DUNNOCK FP FERAL PIGEON G. GREEN WOODPECKER GO GOLDFINCH GR GREENFINCH GS GREAT SPOTTED WOODPECKER GT GREAT TIT HG HERRING GULL HM HOUSE MARTIN HS HOUSE SPARROW JD JACKDAW KT RED KITE LESSER BLACK-BACKED GULL LB LI LINNET LT LONG-TAILED TIT LW LESSER WHITETHROAT M. MISTLE THRUSH MA MALLARD MG MAGPIE MH MOORHEN PW PIED WAGTAIL PH PHEASANT R. ROBIN RO ROOK S. SKYLARK SD STOCK DOVE SG STARLING SH SPARROWHAWK SI SWIFT SL SWALLOW ST SONG THRUSH WH WHITETHROAT WP WOOD PIGEON WR WREN YW YELLOW WAGTAIL Y. YELLOWHAMM...

Description		Drawing Suitability		Status		Project Title	
Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date	
Description		PUBLISHED		A1		M5 Junction 10 Improvements Scheme	
Description		ATKINS		5th Floor, Block 5 Shire Hall Bearland Gloucester GL1 2TH		FIGURE 7-8B BREEDING BIRD SURVEY RESULTS JULY 2019	
Description		Member of the SNC-Lavalin Group		Tel: 08000 514 514 www.atkinsglobal.com			
Description		Copyright © Atkins Limited (2023)		Client		Drawing Number	
Description		PUBLISHED		Gloucestershire COUNTY COUNCIL		Project Originator Volume GCCM5J10 - ATK - EBD ZZ - GS - GI - 00019	
Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date	Location Type Role Number Rev.
A1	P03	SD	RD	CC	LJ	01/05/23	A3 Scale 1:4,000 Project Ref: 5214106 Sheet: 4 of 14 Rev: P03



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LEGEND		SPECIES (BTO CODES)	
	250M STUDY AREA	B	BLACKBIRD
	TRANSECT 1	BC	BLACKCAP
	TRANSECT 2	BH	BLACK-HEADED GULL
	TRANSECT 3	BT	BLUE TIT
	TRANSECT 4	BZ	BUZZARD
	TRANSECT 5	C	CARRION CROW
	TRANSECT 6	CC	CHIFFCHAFF
	TRANSECT 7	CD	COLLARED DOVE
	TRANSECT 8	CH	CHAFFINCH
	TRANSECT 9	D	DUNNOCK
	ALARM CALL	FP	FERAL PIGEON
	CALLING	G	GREEN WOODPECKER
	CARRYING FOOD	GO	GOLDFINCH
	CARRYING NEST MATERIAL	GR	GREENFINCH
	FAMILY	GS	GREAT SPOTTED WOODPECKER
	FLYING	GT	GREAT TIT
	FORAGING IN FLIGHT	HG	HERRING GULL
	JUVENILE	HM	HOUSE MARTIN
	OCCUPIED NEST	HS	HOUSE SPARROW
	SINGING	J	JACKDAW
	SINGING	KT	RED KITE
	SINGING	LB	LESSER BLACK-BACKED GULL
	SINGING	L	LINNET
	SINGING	LT	LONG-TAILED TIT
	SINGING	LW	LESSER WHITETHROAT
	SINGING	M	MISTLE THRUSH
	SINGING	MA	MALLARD
	SINGING	MG	MAGPIE
	SINGING	MH	MOORHEN
	SINGING	PW	PIED WAGTAIL
	SINGING	PH	PHEASANT
	SINGING	R	ROBIN
	SINGING	RO	ROOK
	SINGING	S	SKYLARK
	SINGING	SD	STOCK DOVE
	SINGING	SG	STARLING
	SINGING	SH	SPARROWHAWK
	SINGING	S I	SWIFT
	SINGING	SL	SWALLOW
	SINGING	ST	SONG THRUSH
	SINGING	WH	WHITETHROAT
	SINGING	WP	WOOD PIGEON
	SINGING	WR	WREN
	SINGING	YW	YELLOW WAGTAIL
	SINGING	Y	YELLOWHAMM...

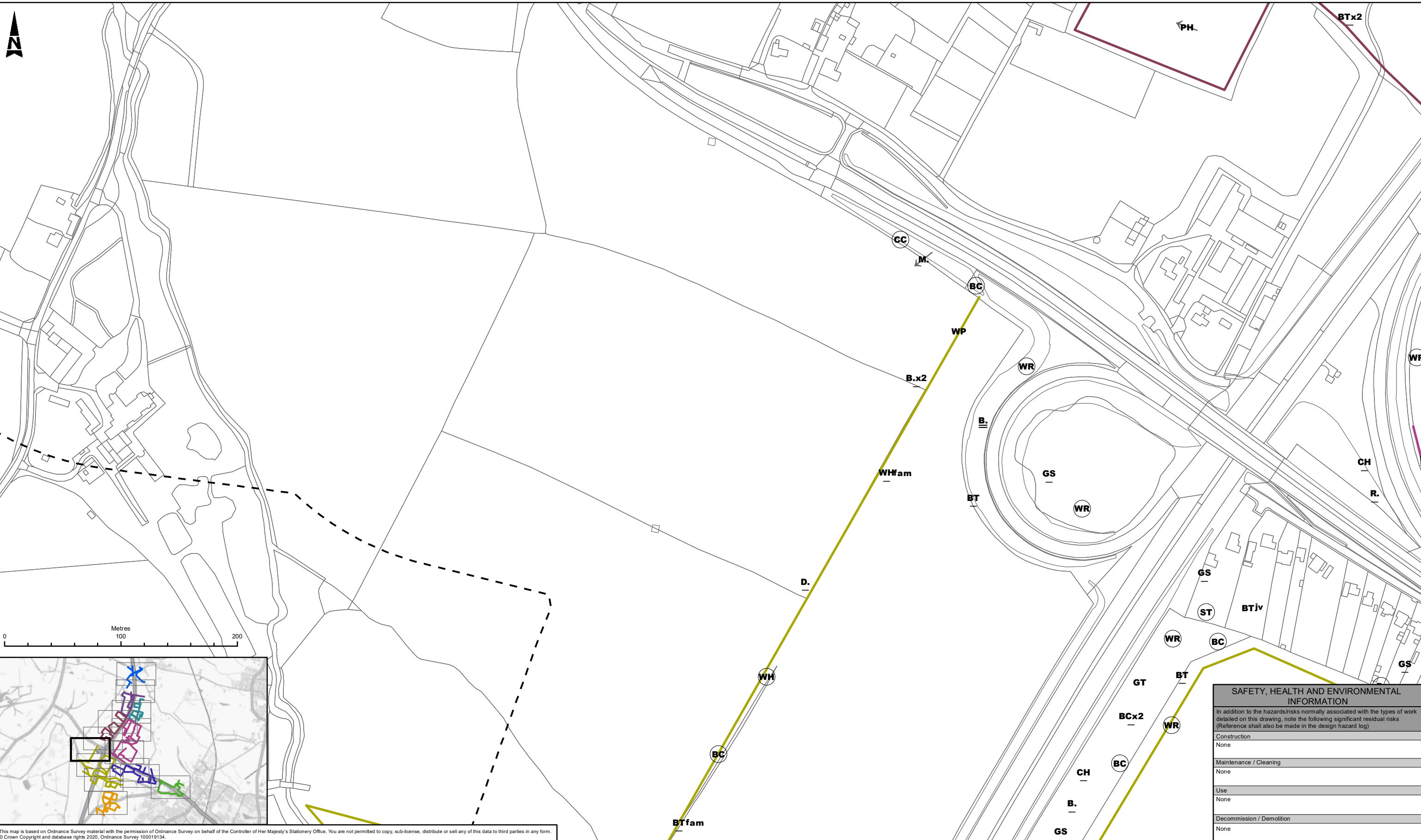
Description	Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date
PUBLISHED	A1	P03	SD	RD	CC	LJ	01/05/23

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SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION	
In addition to the hazards/risks normally associated with the types of work detailed on this drawing, note the following significant residual risks (Reference shall also be made in the design hazard log)	
Construction	None
Maintenance / Cleaning	None
Use	None
Decommission / Demolition	None

Project Title	M5 Junction 10 Improvements Scheme
Drawing Title	FIGURE 7-8B BREEDING BIRD SURVEY RESULTS JULY 2019
Drawing Number	Project Originator Volume GCCM5J10 - ATK - EBD ZZ - GS - GI - 000019
Original Size	A3
Scale	1:4,000
Project Ref.	5214106
Sheet	5 of 14
Rev.	P03



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LEGEND		SPECIES (BTO CODES)	
[Symbol]	250M STUDY AREA	[Symbol]	BT BLUE TIT
[Symbol]	TRANSECT 1	[Symbol]	BZ BUZZARD
[Symbol]	TRANSECT 2	[Symbol]	GR GREENFINCH
[Symbol]	TRANSECT 3	[Symbol]	GS GREAT SPOTTED WOODPECKER
[Symbol]	TRANSECT 4	[Symbol]	GT GREAT TIT
[Symbol]	TRANSECT 5	[Symbol]	HG HERRING GULL
[Symbol]	TRANSECT 6	[Symbol]	HM HOUSE MARTIN
[Symbol]	TRANSECT 7	[Symbol]	HS HOUSE SPARROW
[Symbol]	TRANSECT 8	[Symbol]	G. GREEN WOODPECKER
[Symbol]	TRANSECT 9	[Symbol]	FP FERAL PIGEON
[Symbol]	ALARM CALL	[Symbol]	BC BLACKCAP
[Symbol]	CALLING	[Symbol]	BH BLACK-HEADED GULL
[Symbol]	CARRYING FOOD	[Symbol]	BT BLUE TIT
[Symbol]	CARRYING NEST MATERIAL	[Symbol]	BZ BUZZARD
[Symbol]	FAMILY	[Symbol]	GR GREENFINCH
[Symbol]	FLYING	[Symbol]	GS GREAT SPOTTED WOODPECKER
[Symbol]	FORAGING IN FLIGHT	[Symbol]	GT GREAT TIT
[Symbol]	JUVENILE	[Symbol]	HG HERRING GULL
[Symbol]	OCCUPIED NEST	[Symbol]	HM HOUSE MARTIN
[Symbol]	SINGING	[Symbol]	HS HOUSE SPARROW
[Symbol]		[Symbol]	JD JACKDAW
[Symbol]		[Symbol]	KT RED KITE
[Symbol]		[Symbol]	LB LESSER BLACK-BACKED GULL
[Symbol]		[Symbol]	LI LINNET
[Symbol]		[Symbol]	LT LONG-TAILED TIT
[Symbol]		[Symbol]	LW LESSER WHITETHROAT
[Symbol]		[Symbol]	M. MISTLE THRUSH
[Symbol]		[Symbol]	MA MALLARD
[Symbol]		[Symbol]	MG MAGPIE
[Symbol]		[Symbol]	MH MOORHEN
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[Symbol]		[Symbol]	PH PHEASANT
[Symbol]		[Symbol]	R. ROBIN
[Symbol]		[Symbol]	RO ROOK
[Symbol]		[Symbol]	S. SKYLARK
[Symbol]		[Symbol]	SD STOCK DOVE
[Symbol]		[Symbol]	SG STARLING
[Symbol]		[Symbol]	SH SPARROWHAWK
[Symbol]		[Symbol]	SI SWIFT
[Symbol]		[Symbol]	SL SWALLOW
[Symbol]		[Symbol]	ST SONG THRUSH
[Symbol]		[Symbol]	WH WHITETHROAT
[Symbol]		[Symbol]	WP WOOD PIGEON
[Symbol]		[Symbol]	WR WREN
[Symbol]		[Symbol]	YW YELLOW WAGTAIL
[Symbol]		[Symbol]	Y. YELLOWHAMM...

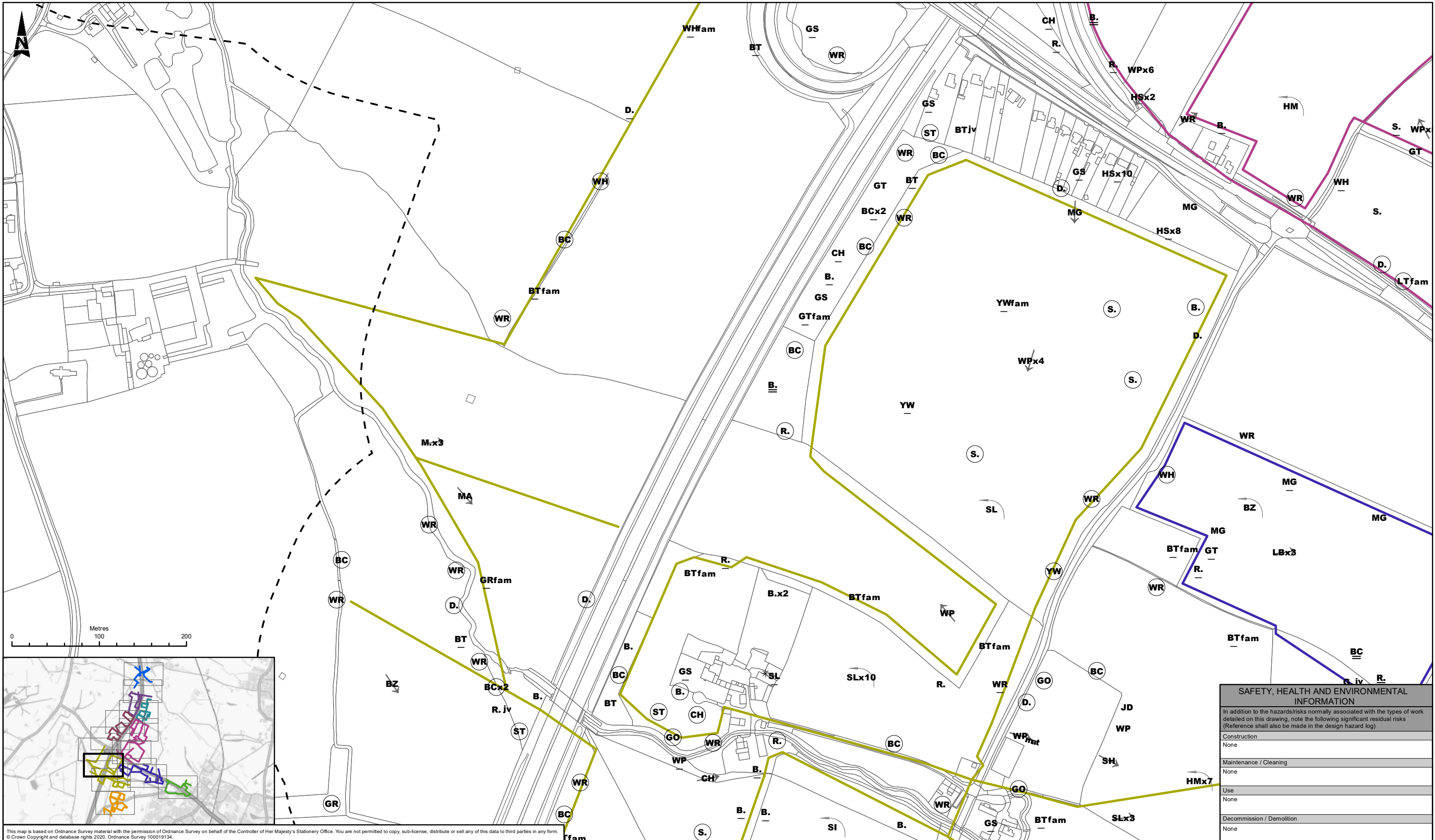
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PUBLISHED	A1	P03	SD	RD	CC	LJ	01/05/23

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COUNTY COUNCIL

SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION	
Construction	None
Maintenance / Cleaning	None
Use	None
Decommission / Demolition	None

Project Title					
M5 Junction 10 Improvements Scheme					
Drawing Title					
FIGURE 7-8B BREEDING BIRD SURVEY RESULTS JULY 2019					
Drawing Number					
Project	Originator	Volume			
GCCM5J10 - ATK - EBD	ZZ - GS - GI - 000019				
Original Size					
A3	Scale	Project Ref.	Sheet	Number	Rev.
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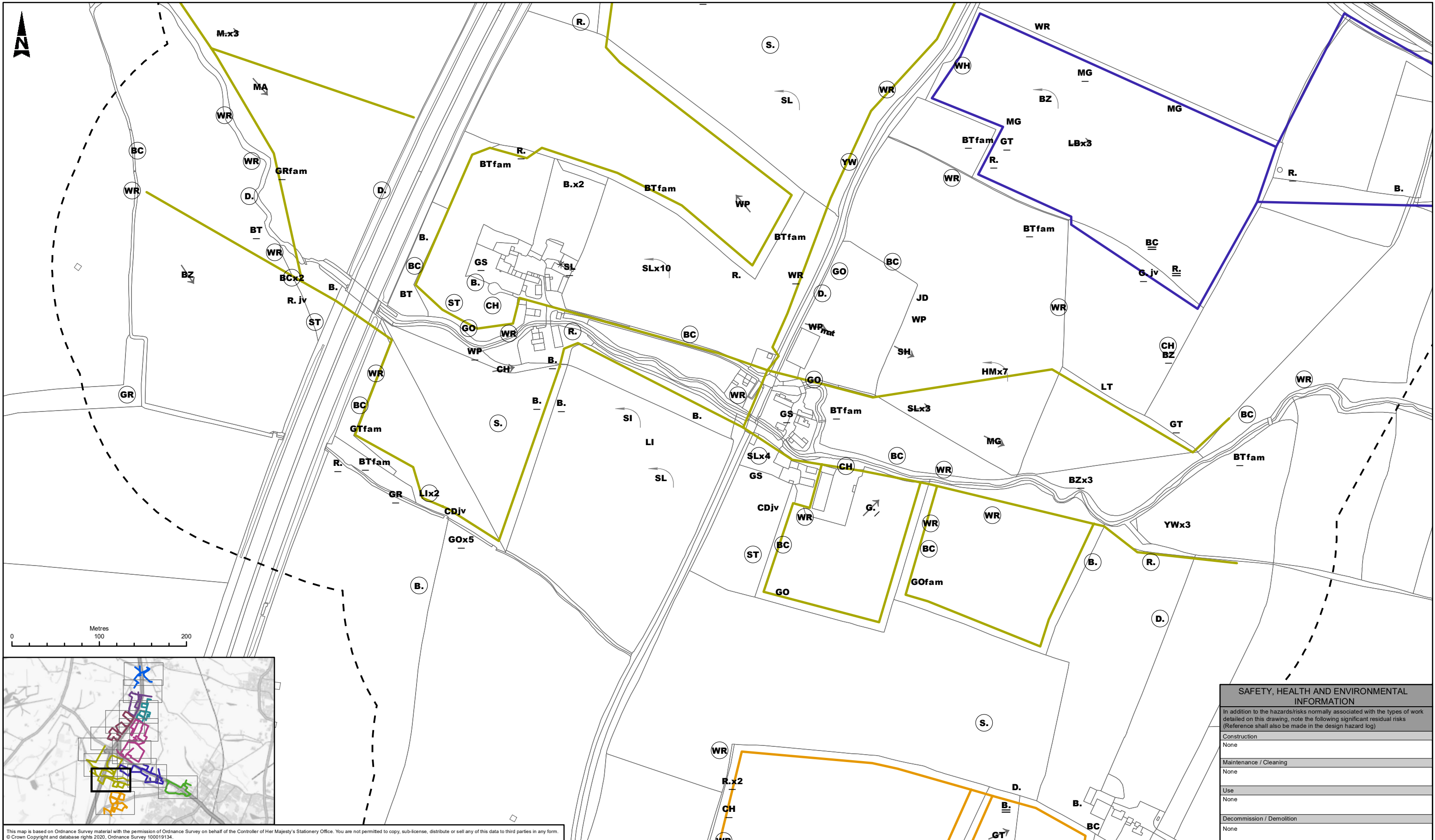


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SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION	
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Construction	None
Maintenance / Cleaning	None
Use	None
Decommission / Demolition	None

LEGEND	
	250M STUDY AREA
	TRANSECT 1
	TRANSECT 2
	TRANSECT 3
	TRANSECT 4
	TRANSECT 5
	TRANSECT 6
	TRANSECT 7
	TRANSECT 8
	TRANSECT 9
	ALARM CALL
	CALLING
	CARRYING FOOD
	CARRYING NEST MATERIAL
	FAMILY
	FLYING
	FORAGING IN FLIGHT
	JUVENILE
	OCCUPIED NEST
	SINGING
SPECIES (BTO CODES)	
B.	BLACKBIRD
BC	BLACKCAP
BH	BLACK-HEADED GULL
BT	BLUE TIT
BZ	BUZZARD
C.	CARRION CROW
CC	CHIFFCHAFF
CD	COLLARED DOVE
CH	CHAFFINCH
D.	DUNNOCK
FP	FERAL PIGEON
G.	GREEN WOODPECKER
GR	GREENFINCH
GS	GREAT SPOTTED WOODPECKER
GT	GREAT TIT
HG	HERRING GULL
HM	HOUSE MARTIN
HS	HOUSE SPARROW
JD	JACKDAW
KT	RED KITE
LB	LESSER BLACK-BACKED GULL
L	LINNET
LT	LONG-TAILED TIT
LW	LESSER WHITETHROAT
M.	MISTLE THRUSH
MA	MALLARD
MG	MAGPIE
MH	MOORHEN
PW	PIED WAGTAIL
PH	PHEASANT
R.	ROBIN
RO	ROOK
S.	SKYLARK
SD	STOCK DOVE
SG	STARLING
SH	SPARROWHAWK
SI	SWIFT
SL	SWALLOW
ST	SONG THRUSH
WH	WHITETHROAT
WP	WOOD PIGEON
WR	WREN
Y.	YELLOW WAGTAIL
Y.	YELLOWHAMM...

Description		Drawing Suitability		Status		Project Title	
PUBLISHED		PUBLISHED		A1		M5 Junction 10 Improvements Scheme	
Description		Drawing Title		Status		Project Title	
ATKINS		5th Floor, Block 5 Shire Hall Bearland Gloucester GL1 2TH		A1		FIGURE 7-8B BREEDING BIRD SURVEY RESULTS JULY 2019	
Member of the SNC-Lavalin Group		Tel: 08000 514 514 www.atkinsglobal.com		Copyright © Atkins Limited (2023)		Drawing Number	
Description		Client		Project		Originator	
PUBLISHED		Gloucestershire COUNTY COUNCIL		GCCM5J10 - ATK - EBD		ZZ - GS - GI - 000019	
Description		Location		Type		Role	
PUBLISHED		A3		Scale		Number	
Status		1:4,000		Project Ref.		Sheet	
A1		P03		5214106		7 of 14	
Revision		SD		Checked		Rev.	
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Drawn		Reviewed		Authorised		Issue Date	
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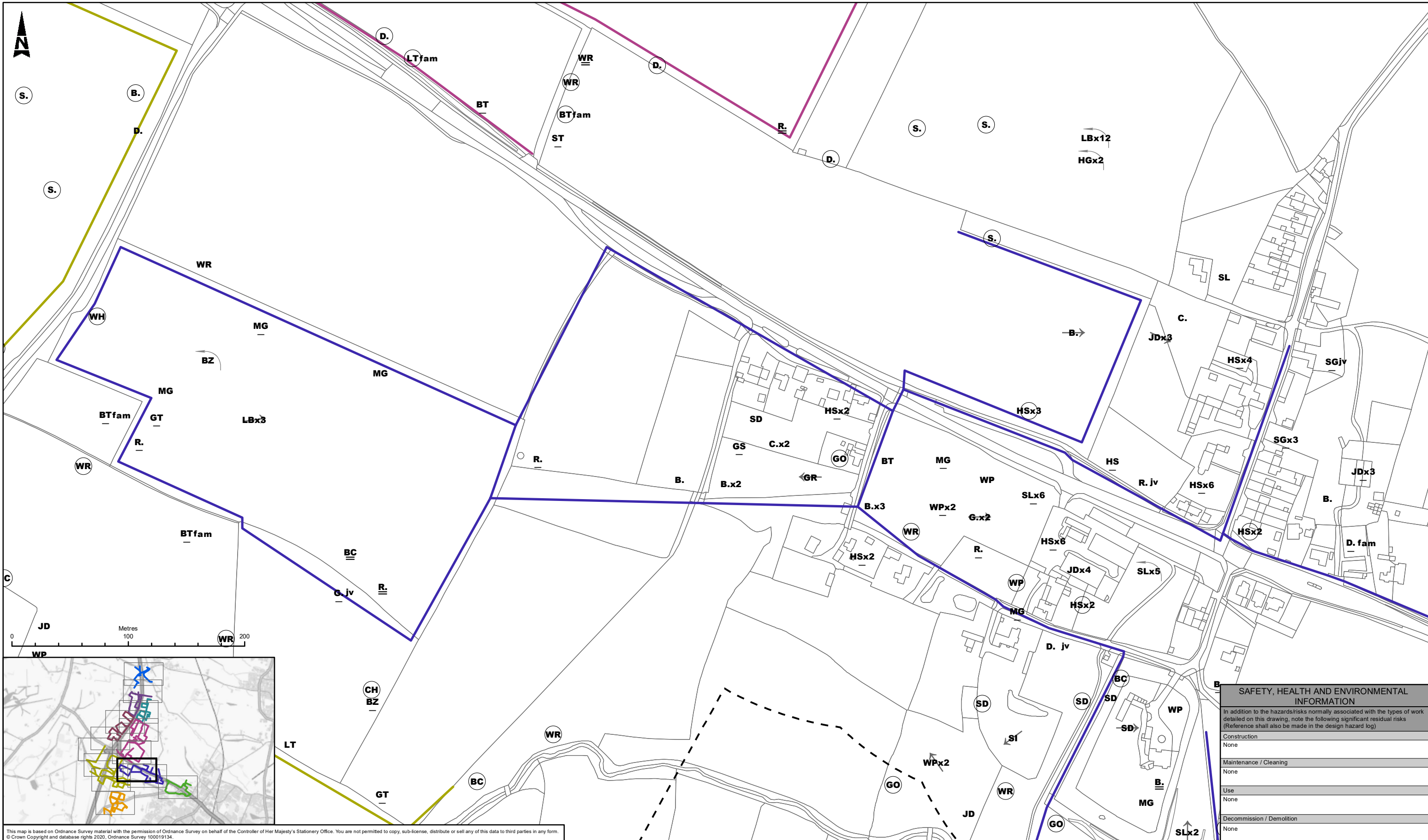


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SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION	
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Construction	None
Maintenance / Cleaning	None
Use	None
Decommission / Demolition	None

LEGEND	
	250M STUDY AREA
	TRANSECT 1 TRANSECT 2 TRANSECT 3 TRANSECT 4 TRANSECT 5 TRANSECT 6 TRANSECT 7 TRANSECT 8 TRANSECT 9
	BEHAVIOURS = ALARM CALL - CALLING fd CARRYING FOOD mat CARRYING NEST MATERIAL fam FAMILY → FLYING
	FORAGING IN FLIGHT jv JUVENILE * OCCUPIED NEST ○ SINGING
	SPECIES (BTO CODES) B. BLACKBIRD BC BLACKCAP BH BLACK-HEADED GULL BT BLUE TIT BZ BUZZARD C. CARRION CROW CC CHIFFCHAFF CD COLLARED DOVE CH CHAFFINCH D. DUNNOCK FP FERAL PIGEON G. GREEN WOODPECKER GO GOLDFINCH GR GREENFINCH GS GREAT SPOTTED WOODPECKER GT GREAT TIT HG HERRING GULL HM HOUSE MARTIN HS HOUSE SPARROW JD JACKDAW KT RED KITE LB LESSER BLACK-BACKED GULL LI LINNET LT LONG-TAILED TIT LW LESSER WHITETHROAT M. MISTLE THRUSH MA MALLARD MG MAGPIE MH MOORHEN PW PIED WAGTAIL PH PHEASANT R. ROBIN RO ROOK S. SKYLARK SD STOCK DOVE SG STARLING SH SPARROWHAWK SI SWIFT SL SWALLOW ST SONG THRUSH WH WHITETHROAT WP WOOD PIGEON WR WREN YW YELLOW WAGTAIL Y. YELLOWHAMM...

Description		Status	Project Title																										
PUBLISHED		A1	M5 Junction 10 Improvements Scheme																										
 Member of the SNC-Lavalin Group 5th Floor, Block 5 Shire Hall Bearland Gloucester GL1 2TH Tel: 08000 514 514 www.atkinsglobal.com			Drawing Title FIGURE 7-8B BREEDING BIRD SURVEY RESULTS JULY 2019																										
 Client			Drawing Number Project: GCCM5J10 - ATK - EBD Originator: ZZ - GS - GI - 000019 Volume:																										
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LEGEND		SPECIES (BTO CODES)	
	250M STUDY AREA	B	BLACKBIRD
	TRANSECT 1	BC	BLACKCAP
	TRANSECT 2	BH	BLACK-HEADED GULL
	TRANSECT 3	BT	BLUE TIT
	TRANSECT 4	BZ	BUZZARD
	TRANSECT 5	C	CARRION CROW
	TRANSECT 6	CC	CHIFFCHAFF
	TRANSECT 7	CD	COLLARED DOVE
	TRANSECT 8	CH	CHAFFINCH
	TRANSECT 9	D	DUNNOCK
	ALARM CALL	FP	FERAL PIGEON
	CALLING	G	GREEN WOODPECKER
	CARRYING FOOD	GO	GOLDFINCH
	CARRYING NEST MATERIAL	GR	GREENFINCH
	FAMILY	GS	GREAT SPOTTED WOODPECKER
	FLYING	GT	GREAT TIT
	FORAGING IN FLIGHT	HG	HERRING GULL
	OCCUPIED NEST	HM	HOUSE MARTIN
	SINGING	HS	HOUSE SPARROW
	JUVENILE	JD	JACKDAW
	RED KITE	KT	RED KITE
	LESSER BLACK-BACKED GULL	LB	LESSER BLACK-BACKED GULL
	LINNET	LI	LINNET
	LONG-TAILED TIT	LT	LONG-TAILED TIT
	LESSER WHITETHROAT	LW	LESSER WHITETHROAT
	MISTLE THRUSH	M	MISTLE THRUSH
	MALLARD	MA	MALLARD
	MAGPIE	MG	MAGPIE
	MOORHEN	MH	MOORHEN
	PIED WAGTAIL	PW	PIED WAGTAIL
	PHEASANT	PH	PHEASANT
	ROBIN	R	ROBIN
	ROOK	RO	ROOK
	SKYLARK	S	SKYLARK
	STOCK DOVE	SD	STOCK DOVE
	STARLING	SG	STARLING
	SPARROWHAWK	SH	SPARROWHAWK
	SWIFT	SI	SWIFT
	SWALLOW	SL	SWALLOW
	SONG THRUSH	ST	SONG THRUSH
	WHITETHROAT	WH	WHITETHROAT
	WOOD PIGEON	WP	WOOD PIGEON
	WREN	WR	WREN
	YELLOW WAGTAIL	YW	YELLOW WAGTAIL
	YELLOWHAMM...	Y	YELLOWHAMM...

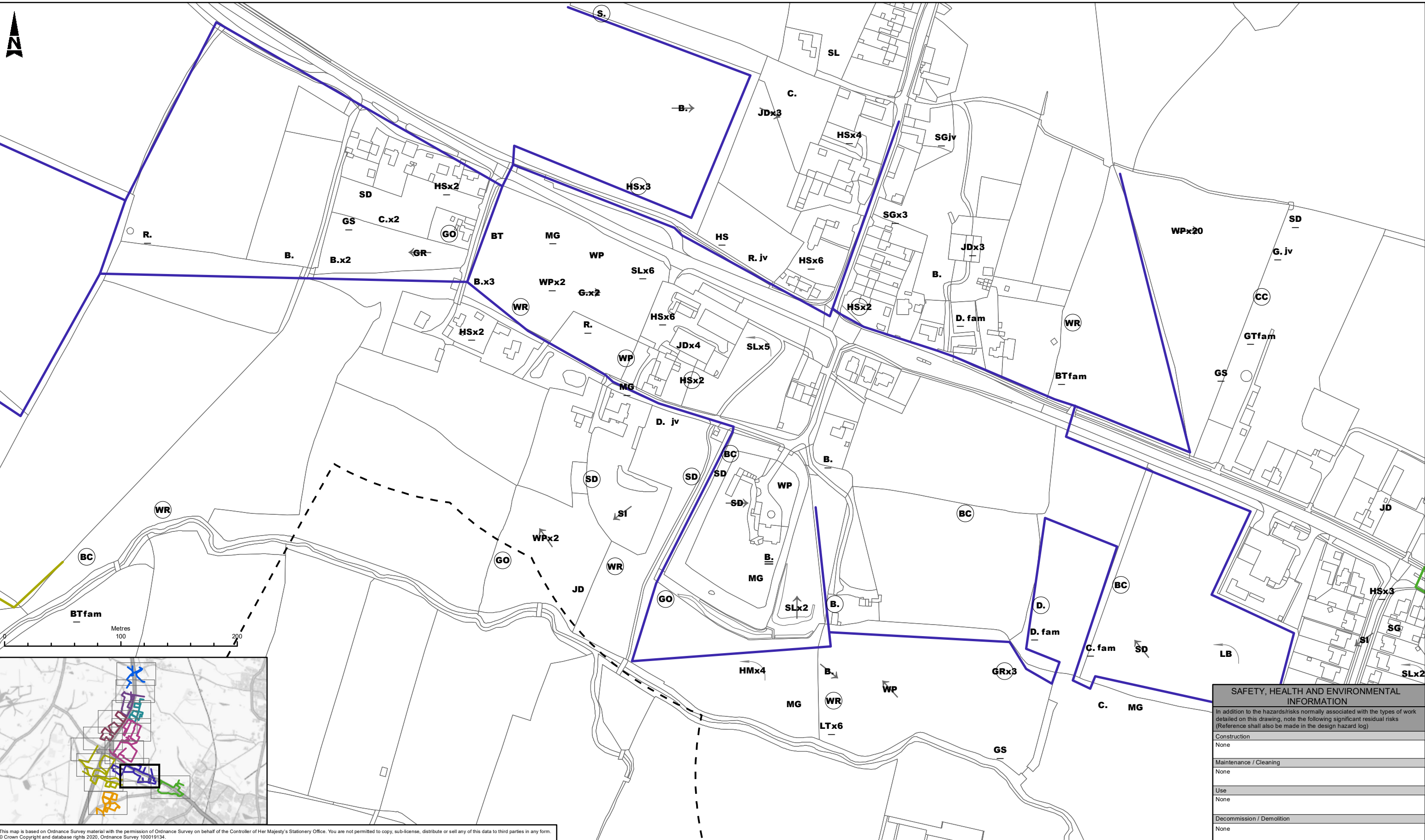
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 COUNTY COUNCIL

SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION	
In addition to the hazards/risks normally associated with the types of work detailed on this drawing, note the following significant residual risks (Reference shall also be made in the design hazard log)	
Construction	None
Maintenance / Cleaning	None
Use	None
Decommission / Demolition	None

Project Title	M5 Junction 10 Improvements Scheme
Drawing Title	FIGURE 7-8B BREEDING BIRD SURVEY RESULTS JULY 2019
Drawing Number	Project: GCCM5J10 - ATK - EBD Type: ZZ - GS - GI - 000019
Original Size	A3
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Project Ref	5214106
Sheet	9 of 14
Rev	P03



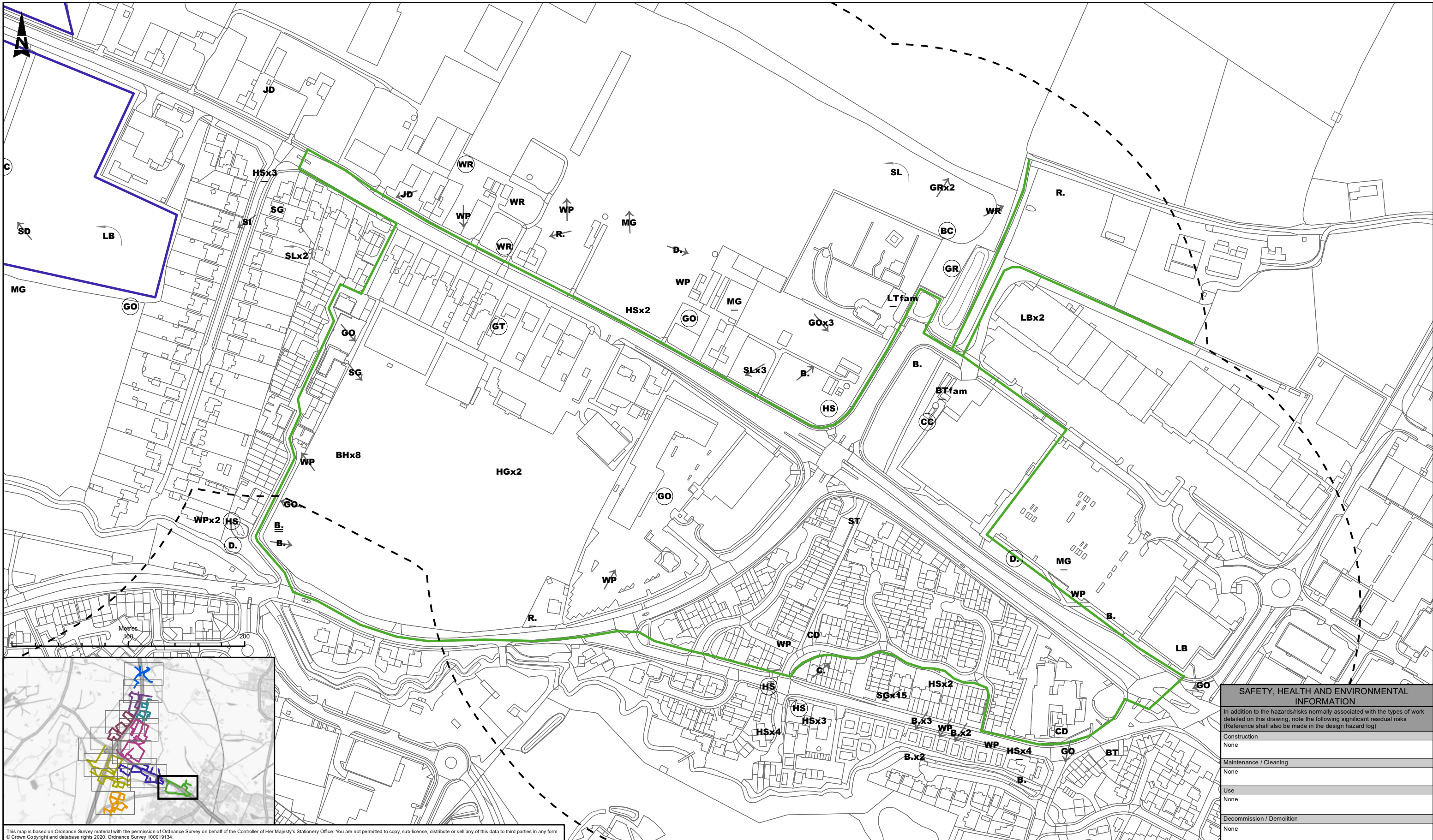
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Category	Description
Construction	None
Maintenance / Cleaning	None
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Decommission / Demolition	None

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<p>LEGEND</p> <p> 250M STUDY AREA</p> <p> TRANSECT 1 (blue) TRANSECT 2 (purple) TRANSECT 3 (teal) TRANSECT 4 (magenta) TRANSECT 5 (yellow) TRANSECT 6 (red) TRANSECT 7 (green) TRANSECT 8 (orange) TRANSECT 9 (black)</p> <p>BEHAVIOURS</p> <p> ALARM CALL</p> <p> CALLING</p> <p> CARRYING FOOD</p> <p> CARRYING NEST MATERIAL</p> <p> FAMILY</p> <p> FLYING</p>	<p> FORAGING IN FLIGHT</p> <p> JUVENILE</p> <p> OCCUPIED NEST</p> <p> SINGING</p> <p>SPECIES (BTO CODES)</p> <p>B. BLACKBIRD</p> <p>BC BLACKCAP</p> <p>BH BLACK-HEADED GULL</p> <p>BT BLUE TIT</p> <p>BZ BUZZARD</p> <p>C. CARRION CROW</p> <p>CC CHIFFCHAFF</p> <p>CD COLLARED DOVE</p> <p>CH CHAFFINCH</p> <p>D. DUNNOCK</p> <p>FP FERAL PIGEON</p> <p>G. GREEN WOODPECKER</p> <p>GO GOLDFINCH</p> <p>GR GREENFINCH</p> <p>GS GREAT SPOTTED WOODPECKER</p> <p>GT GREAT TIT</p> <p>HG HERRING GULL</p> <p>HM HOUSE MARTIN</p> <p>HS HOUSE SPARROW</p> <p>JD JACKDAW</p>	<p>KT RED KITE</p> <p>LB LESSER BLACK-BACKED GULL</p> <p>LI LINNET</p> <p>LT LONG-TAILED TIT</p> <p>LW LESSER WHITETHROAT</p> <p>M. MISTLE THRUSH</p> <p>MA MALLARD</p> <p>MG MAGPIE</p> <p>MH MOORHEN</p> <p>PW PIED WAGTAIL</p> <p>PH PHEASANT</p> <p>R. ROBIN</p> <p>RO ROOK</p> <p>S. SKYLARK</p> <p>SD STOCK DOVE</p> <p>SG STARLING</p> <p>SH SPARROWHAWK</p> <p>SI SWIFT</p> <p>SL SWALLOW</p> <p>ST SONG THRUSH</p> <p>WH WHITETHROAT</p> <p>WP WOOD PIGEON</p> <p>WR WREN</p> <p>YW YELLOW WAGTAIL</p> <p>Y. YELLOWHAMM...</p>	<table border="1"> <tr> <th>Status</th> <th>Revision</th> <th>Drawn</th> <th>Checked</th> <th>Reviewed</th> <th>Authorised</th> <th>Issue Date</th> </tr> <tr> <td colspan="7">PUBLISHED</td> </tr> <tr> <td>Status</td> <td>Revision</td> <td>Drawn</td> <td>Checked</td> <td>Reviewed</td> <td>Authorised</td> <td>Issue Date</td> </tr> <tr> <td>Status</td> <td>Revision</td> <td>Drawn</td> <td>Checked</td> <td>Reviewed</td> <td>Authorised</td> <td>Issue Date</td> </tr> <tr> <td>Status</td> <td>Revision</td> <td>Drawn</td> <td>Checked</td> <td>Reviewed</td> <td>Authorised</td> <td>Issue Date</td> </tr> <tr> <td>Status</td> <td>Revision</td> <td>Drawn</td> <td>Checked</td> <td>Reviewed</td> <td>Authorised</td> <td>Issue Date</td> </tr> <tr> <td colspan="7">PUBLISHED</td> </tr> <tr> <td>Status</td> <td>Revision</td> <td>Drawn</td> <td>Checked</td> <td>Reviewed</td> <td>Authorised</td> <td>Issue Date</td> </tr> <tr> <td>A1</td> <td>P03</td> <td>SD</td> <td>RD</td> <td>CC</td> <td>LJ</td> <td>01/05/23</td> </tr> </table>	Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date	PUBLISHED							Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date	Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date	Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date	Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date	PUBLISHED							Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date	A1	P03	SD	RD	CC	LJ	01/05/23	<p>Drawing Suitability: PUBLISHED</p> <p>Status: A1</p> <p>ATKINS Member of the SNC-Lavalin Group</p> <p>5th Floor, Block 5 Shire Hall Bearland Gloucester GL1 2TH</p> <p>Tel: 08000 514 514 www.atkinsglobal.com</p> <p>Copyright © Atkins Limited (2023)</p> <p>Gloucestershire COUNTY COUNCIL</p>	<p>Project Title: M5 Junction 10 Improvements Scheme</p> <p>Drawing Title: FIGURE 7-8B BREEDING BIRD SURVEY RESULTS JULY 2019</p> <table border="1"> <tr> <th>Project</th> <th>Originator</th> <th>Volume</th> </tr> <tr> <td>GCCM5J10 - ATK - EBD</td> <td>ZZ - GS - GI - 000019</td> <td></td> </tr> </table> <p>Drawing Number: [Blank]</p> <table border="1"> <tr> <th>Original Size</th> <th>Scale</th> <th>Project Ref</th> <th>Sheet</th> <th>Rev</th> </tr> <tr> <td>A3</td> <td>1:3,000</td> <td>5214106</td> <td>10 of 14</td> <td>P03</td> </tr> </table>	Project	Originator	Volume	GCCM5J10 - ATK - EBD	ZZ - GS - GI - 000019		Original Size	Scale	Project Ref	Sheet	Rev	A3	1:3,000	5214106	10 of 14	P03
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LEGEND	
	250M STUDY AREA
	TRANSECT 1 TRANSECT 2 TRANSECT 3 TRANSECT 4 TRANSECT 5 TRANSECT 6 TRANSECT 7 TRANSECT 8 TRANSECT 9
	BEHAVIOURS = ALARM CALL - CALLING fd CARRYING FOOD mat CARRYING NEST MATERIAL fam FAMILY → FLYING
	FORAGING IN FLIGHT jv JUVENILE * OCCUPIED NEST ○ SINGING
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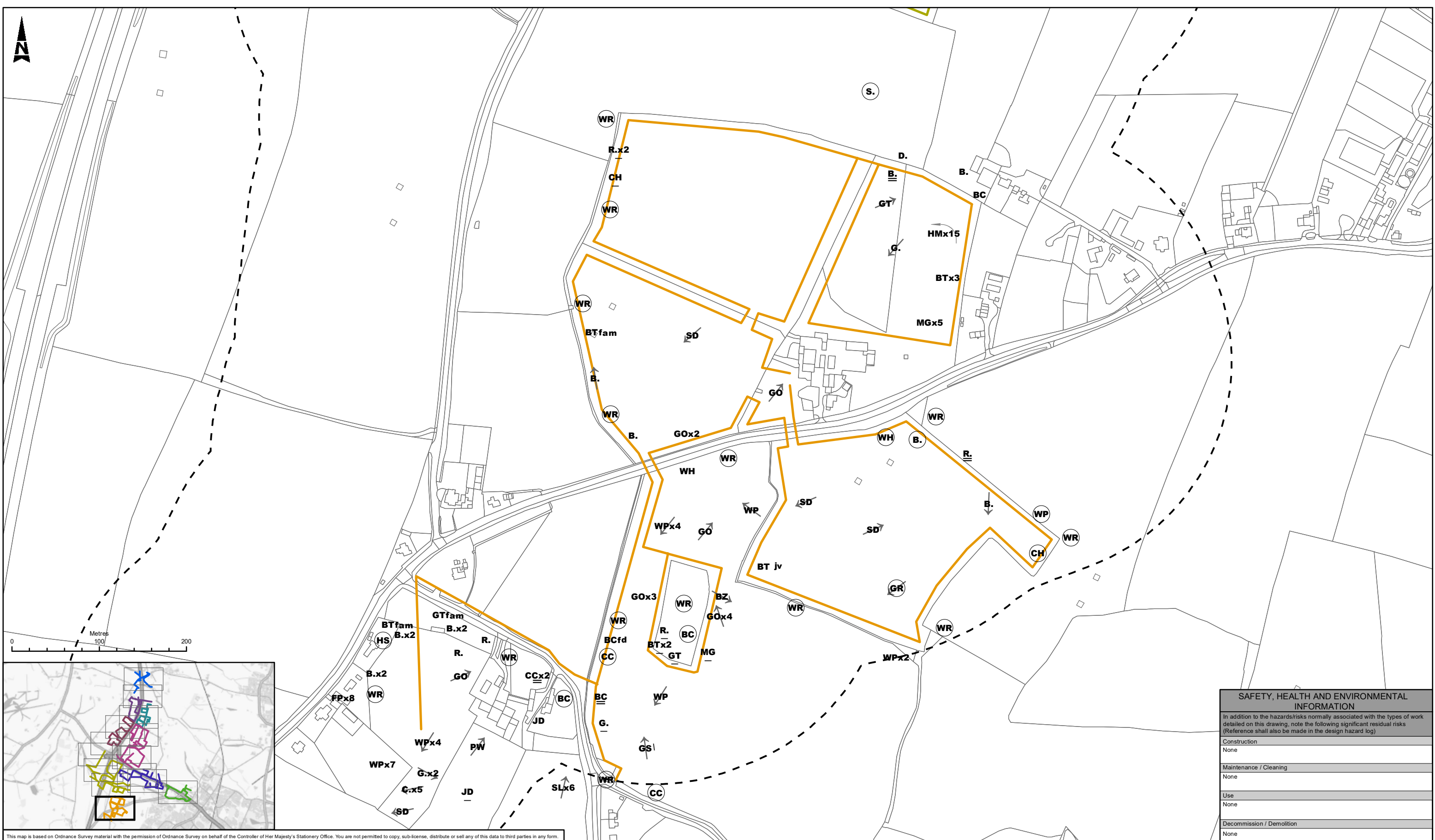
5th Floor, Block 5
Shire Hall
Bearland
Gloucester
GL 1 2TH

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gloucestershire
COUNTY COUNCIL

Project Title		M5 Junction 10 Improvements Scheme	
Drawing Title		FIGURE 7-8B BREEDING BIRD SURVEY RESULTS JULY 2019	
Drawing Number		Project: GCCM5J10 - ATK - EBD Originator: ZZ - GS - GI - 000019 Volume: 11 of 14	
Original Size: A3	Scale: 1:3,000	Project Ref: 5214106	Sheet: 11 of 14 Rev: P03

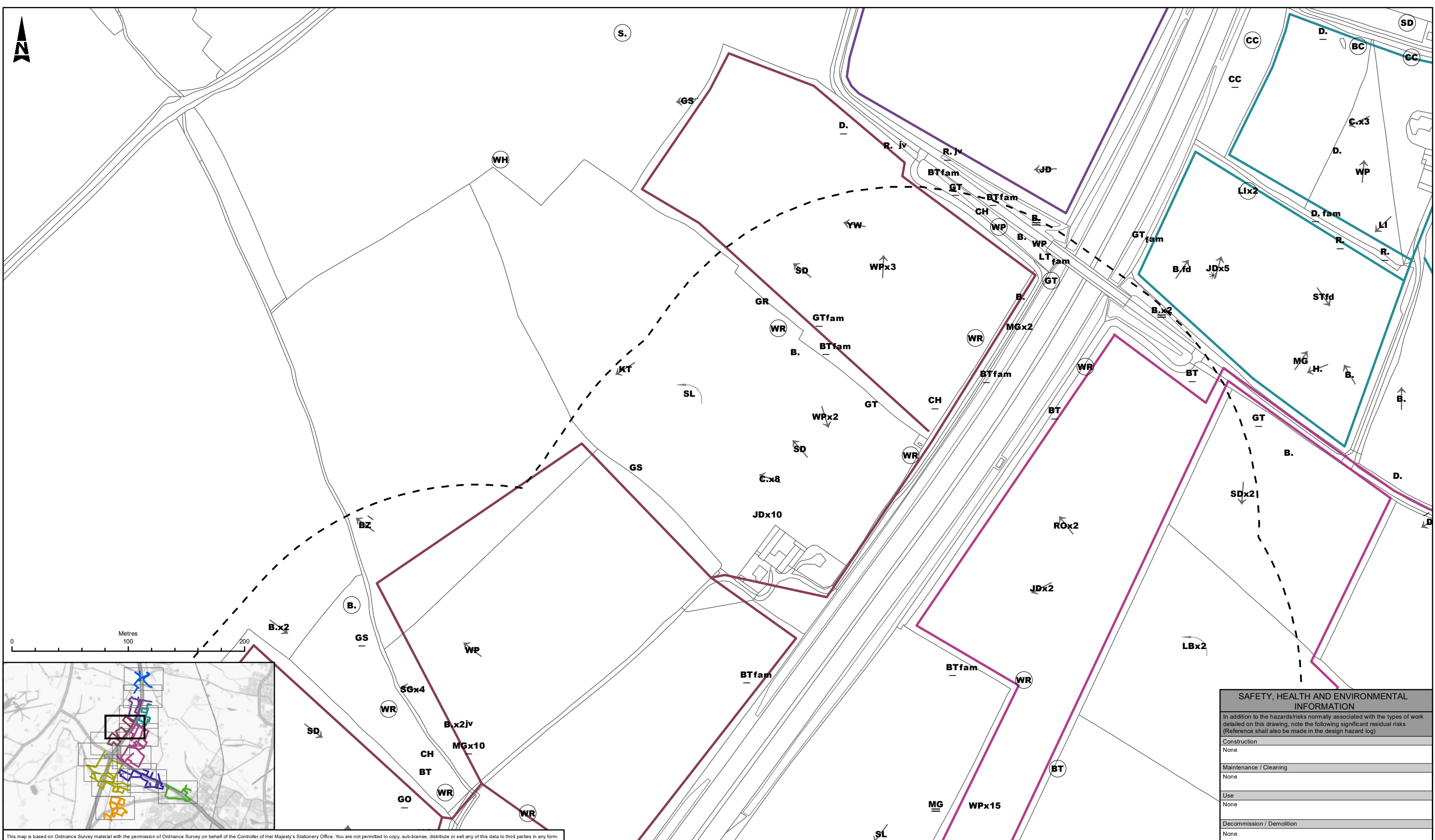


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SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION	
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Construction	None
Maintenance / Cleaning	None
Use	None
Decommission / Demolition	None

LEGEND	
	250M STUDY AREA
	TRANSECT 1 TRANSECT 2 TRANSECT 3 TRANSECT 4 TRANSECT 5 TRANSECT 6 TRANSECT 7 TRANSECT 8
	BEHAVIOURS = ALARM CALL - CALLING fd CARRYING FOOD mat CARRYING NEST MATERIAL fam FAMILY → FLYING
	SPECIES (BTO CODES) B. BLACKBIRD BC BLACKCAP BH BLACK-HEADED GULL BT BLUE TIT BZ BUZZARD C. CARRION CROW CC CHIFFCHAFF CD COLLARED DOVE CH CHAFFINCH D. DUNNOCK FP FERAL PIGEON G. GREEN WOODPECKER GO GOLDFINCH GR GREENFINCH GS GREAT SPOTTED WOODPECKER GT GREAT TIT HG HERRING GULL HM HOUSE MARTIN HS HOUSE SPARROW JD JACKDAW KT RED KITE LB LESSER BLACK-BACKED GULL LI LINNET LT LONG-TAILED TIT LW LESSER WHITETHROAT M. MISTLE THRUSH MA MALLARD MG MAGPIE
	MH MOORHEN PW PIED WAGTAIL PH PHEASANT R. ROBIN RO ROOK S. SKYLARK SD STOCK DOVE SG STARLING SH SPARROWHAWK SI SWIFT SL SWALLOW ST SONG THRUSH WH WHITETHROAT WP WOOD PIGEON WR WREN YW YELLOW WAGTAIL Y. YELLOWHAMM...

Description		Drawing Suitability		Status		Project Title	
PUBLISHED		PUBLISHED		A1		M5 Junction 10 Improvements Scheme	
Description		ATKINS		5th Floor, Block 5 Shire Hall Bearland Gloucester GL1 2TH		FIGURE 7-8B BREEDING BIRD SURVEY RESULTS JULY 2019	
Description		Member of the SNC-Lavalin Group		Tel: 08000 514 514			
Description		Copyright © Atkins Limited (2023)		www.atkinsglobal.com			
Description		Client		Gloucestershire COUNTY COUNCIL		Drawing Number	
Description		PUBLISHED		Project		Originator	
Description		PUBLISHED		GCCM5J10 - ATK - EBD		ZZ - GS - GI - 000019	
Description		PUBLISHED		Location		Type	
Description		PUBLISHED		Scale		Project Ref.	
Description		PUBLISHED		1:4,000		5214106	
Description		PUBLISHED		Sheet		Number	
Description		PUBLISHED		12 of 14		Rev:	
Description		PUBLISHED		P03			



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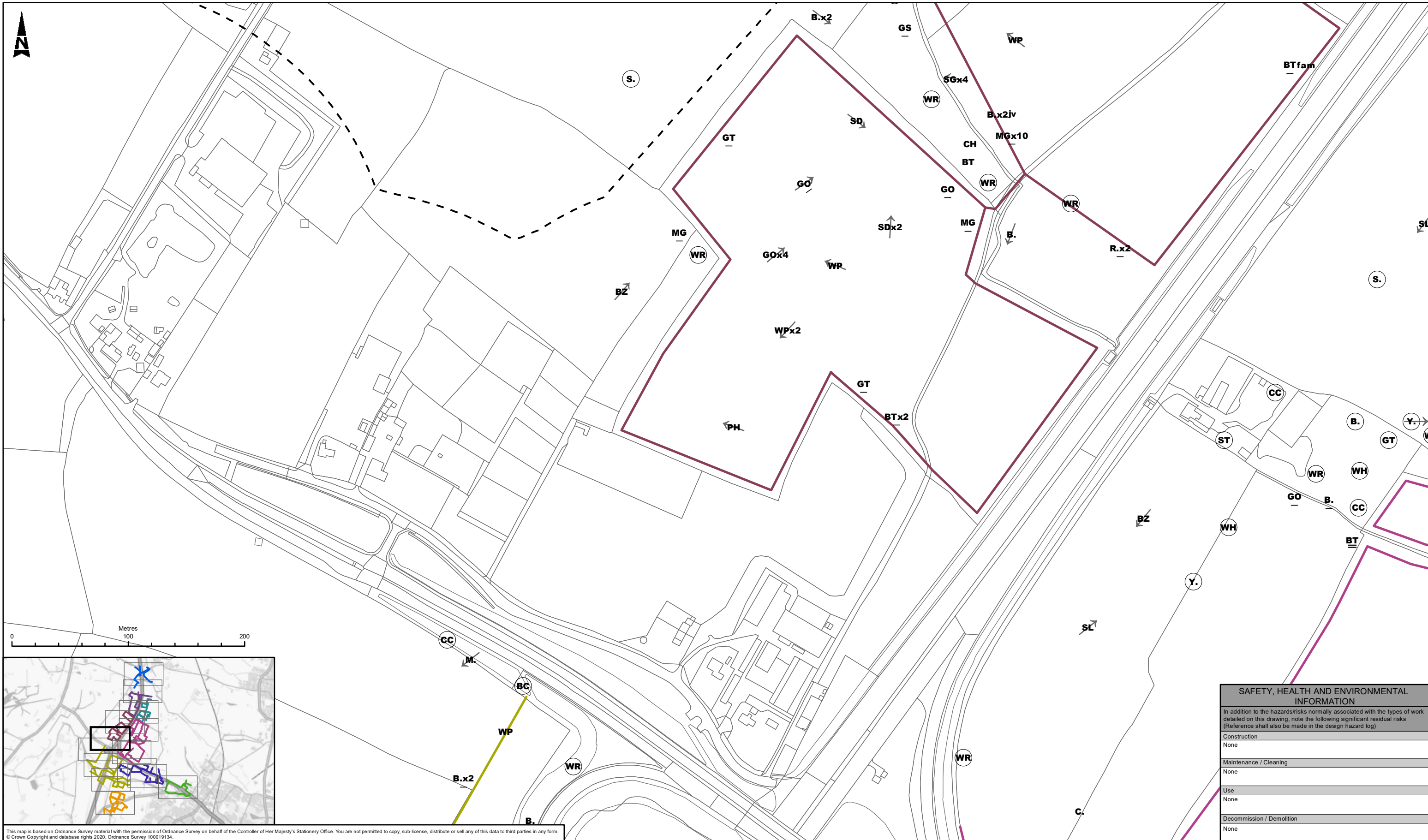
LEGEND	
	250M STUDY AREA
	TRANSECT 1 TRANSECT 2 TRANSECT 3 TRANSECT 4 TRANSECT 5 TRANSECT 6 TRANSECT 7 TRANSECT 8 TRANSECT 9
	BEHAVIOURS = ALARM CALL - CALLING fd CARRYING FOOD mat CARRYING NEST MATERIAL fam FAMILY → FLYING
	FORAGING IN FLIGHT jv JUVENILE * OCCUPIED NEST ○ SINGING
	SPECIES (BTO CODES) B. BLACKBIRD BC BLACKCAP BH BLACK-HEADED GULL BT BLUE TIT BZ BUZZARD C. CARRION CROW CC CHIFFCHAFF CD COLLARED DOVE CH CHAFFINCH D. DUNNOCK FP FERAL PIGEON G. GREEN WOODPECKER GO GOLDFINCH GR GREENFINCH GS GREAT SPOTTED WOODPECKER GT GREAT TIT HG HERRING GULL HM HOUSE MARTIN HS HOUSE SPARROW JD JACKDAW KT RED KITE LB LESSER BLACK-BACKED GULL LI LINNET LT LONG-TAILED TIT LW LESSER WHITETHROAT M. MISTLE THRUSH MA MALLARD MG MAGPIE MH MOORHEN PW PIED WAGTAIL PH PHEASANT R. ROBIN RO ROOK S. SKYLARK SD STOCK DOVE SG STARLING SH SPARROWHAWK SI SWIFT SL SWALLOW ST SONG THRUSH WH WHITETHROAT WP WOOD PIGEON WR WREN Y. YELLOWHAMM...

Description	Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date
PUBLISHED	A1						01/05/23

ATKINS
Member of the SNC-Lavalin Group
5th Floor, Block 5
Shire Hall
Bearland
Gloucester
GL1 2TH
Tel: 08000 514 514
www.atkinsglobal.com

Gloucestershire
COUNTY COUNCIL

Project Title		M5 Junction 10 Improvements Scheme	
Drawing Title		FIGURE 7-8B BREEDING BIRD SURVEY RESULTS JULY 2019	
Drawing Number		Project: GCCM5J10 - ATK - EBD Originator: ZZ - GS - GI - 000019 Volume: 13 of 14	
Original Size: A3	Scale: 1:3,000	Project Ref: 5214106	Sheet: 13 of 14 Rev: P03

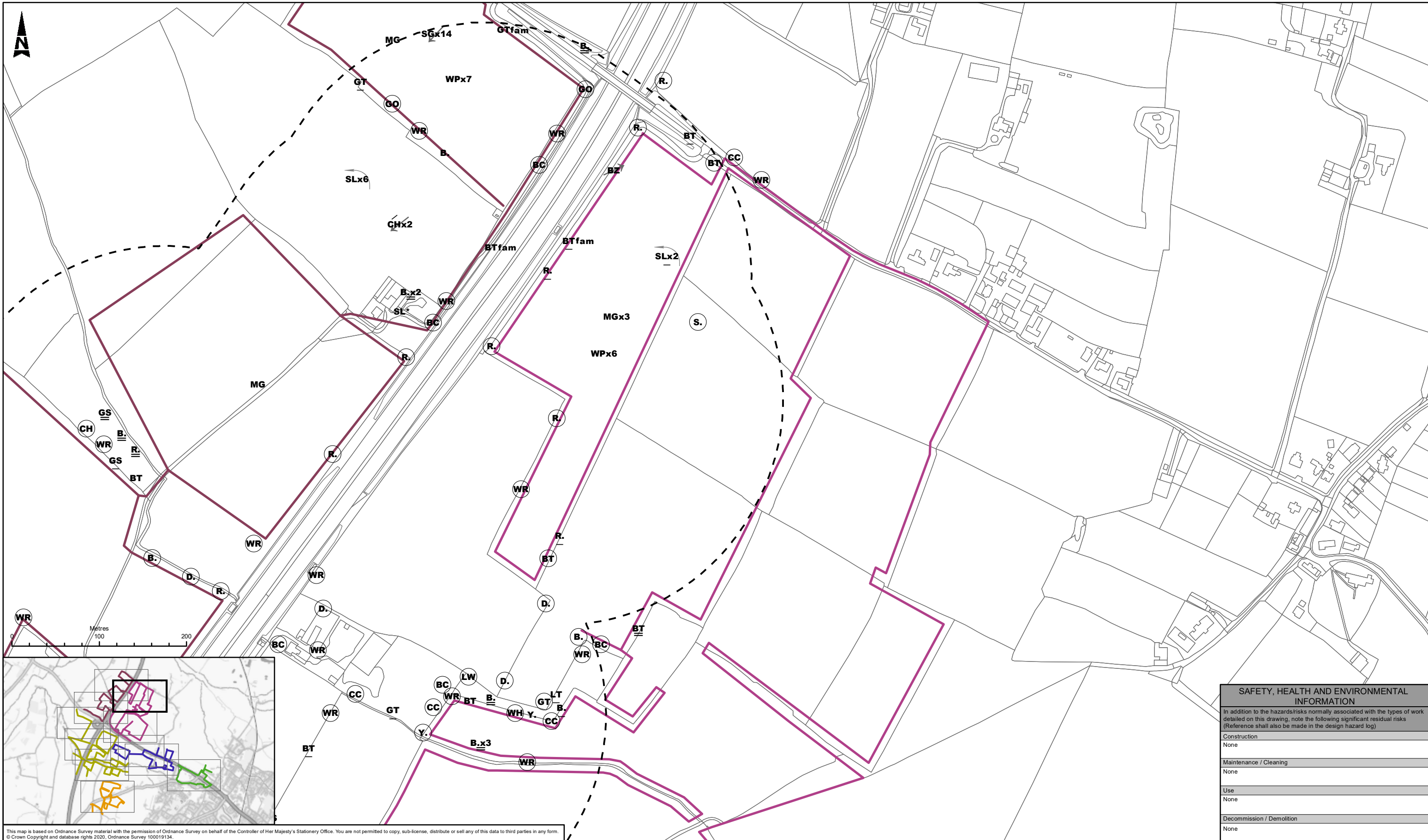


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Construction	None
Maintenance / Cleaning	None
Use	None
Decommission / Demolition	None

LEGEND	
	250M STUDY AREA
	TRANSECT 1 TRANSECT 2 TRANSECT 3 TRANSECT 4 TRANSECT 5 TRANSECT 6 TRANSECT 7 TRANSECT 8 TRANSECT 9
BEHAVIOURS	ALARM CALL CALLING CARRYING FOOD CARRYING NEST MATERIAL FAMILY FLYING
	FORAGING IN FLIGHT
	JUVENILE
	OCCUPIED NEST
	SINGING
SPECIES (BTO CODES)	BLACKBIRD BLACKCAP BLACK-HEADED GULL BUZZARD CARRION CROW CHIFFCHAFF COLLARED DOVE CHAFFINCH DUNNOCK FERAL PIGEON GREEN WOODPECKER GOLDFINCH GREENFINCH GREAT SPOTTED WOODPECKER GREAT TIT HERRING GULL HOUSE MARTIN HOUSE SPARROW JACKDAW LESSER BLACK-BACKED GULL LINNET LONG-TAILED TIT LESSER WHITETHROAT MISTLE THRUSH MALLARD MAGPIE MOORHEN PIED WAGTAIL PHEASANT ROBIN ROOK SKYLARK STOCK DOVE STARLING SPARROWHAWK SWIFT SWALLOW SONG THRUSH WHITETHROAT WOOD PIGEON WREN YELLOW WAGTAIL YELLOWHAMM...

Description		Drawing Suitability	Status	Project Title														
PUBLISHED		PUBLISHED	A1	M5 Junction 10 Improvements Scheme														
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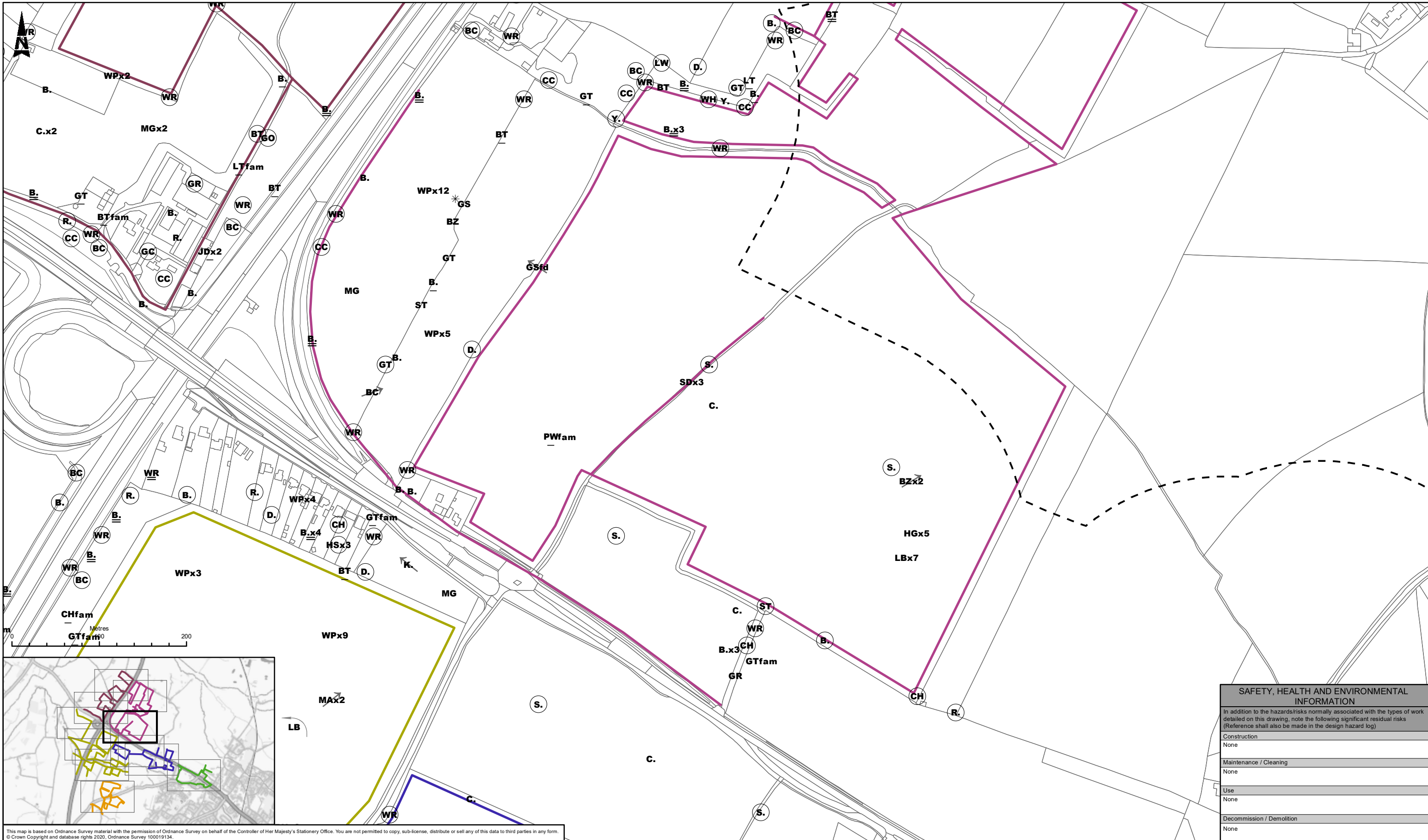


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Construction	None
Maintenance / Cleaning	None
Use	None
Decommission / Demolition	None

LEGEND		SPECIES (BTO CODES)	
	250M STUDY AREA	B.	BLACKBIRD
	TRANSECT 4	BC	BLACKCAP
	TRANSECT 5	BT	BLUE TIT
	TRANSECT 6	BZ	BUZZARD
	TRANSECT 7	C.	CARRION CROW
	TRANSECT 8	CC	CHIFFCHAFF
	TRANSECT 9	CD	COLLARED DOVE
	BEHAVIOURS	CG	CANADA GOOSE
	ALARM CALL	CH	CHAFFINCH
	CALLING	CT	COAL TIT
	CARRYING FOOD	D.	DUNNOCK
	CARRYING NEST MATERIAL	G.	GREEN WOODPECKER
	DEAD	GC	GOLDCREST
	FAMILY	GL	GREY WAGTAIL
	FLYING	GO	GOLDFINCH
	FORAGING IN FLIGHT	GR	GREENFINCH
	JUVENILE	GS	GREAT SPOTTED WOODPECKER
	OCCUPIED NEST	GT	GREAT TIT
	SINGING	HG	HERRING GULL
		HM	HOUSE MARTIN
		HS	HOUSE SPARROW
		JD	JACKDAW
		KF	KINGFISHER
		LB	LESSER BLACK-BACKED GULL
		LI	LINNET
		LO	LITTLE OWL
		LT	LONG-TAILED TIT
		LW	LESSER WHITETHROAT
		M.	MISTLE THRUSH
		MA	MALLARD
		MG	MAGPIE
		MH	MOORHEN
		PW	PIED WAGTAIL
		PH	PHEASANT
		R.	ROBIN
		RN	RAVEN
		S.	SKYLARK
		SD	STOCK DOVE
		SG	STARLING
		SL	SWALLOW
		ST	SONG THRUSH
		SW	SEDGE WARBLER
		WP	WOOD PIGEON
		WH	WHITETHROAT
		WR	WREN
		Y.	YELLOWHAMMER
		YW	YELLOW WAGTAIL

Description		Drawing Suitability	Status	Project Title																
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Description	Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date													
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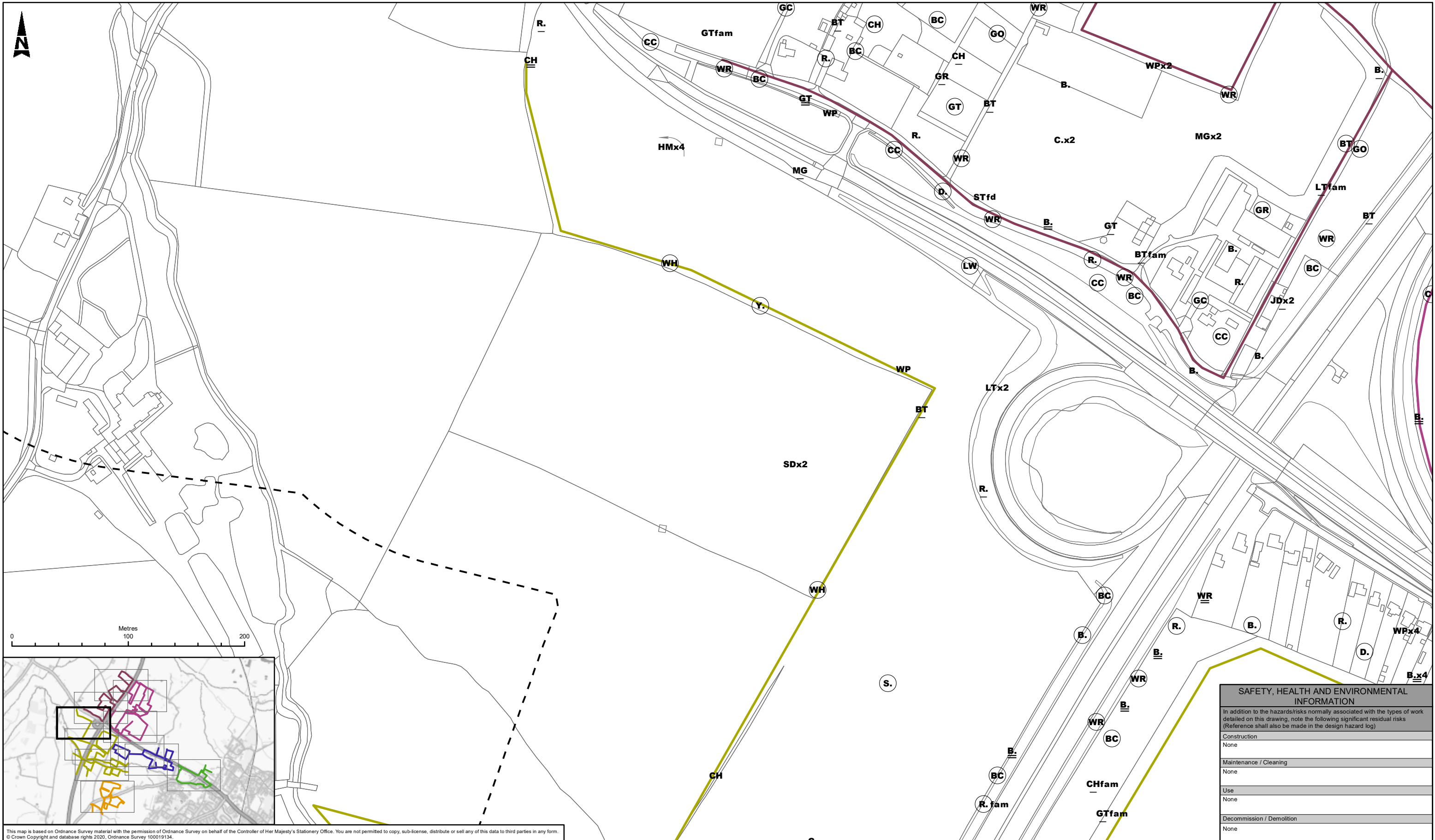


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LEGEND	
	250M STUDY AREA
	TRANSECT 4
	TRANSECT 5
	TRANSECT 6
	TRANSECT 7
	TRANSECT 8
	TRANSECT 9
BEHAVIOURS	
	ALARM CALL
	CALLING
fd	CARRYING FOOD
mat	CARRYING NEST MATERIAL
(d)	DEAD
fam	FAMILY
	FLYING
	FORAGING IN FLIGHT
ju	JUVENILE
	OCCUPIED NEST
	SINGING
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WP	WOOD PIGEON
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Y.	YELLOWHAMMER
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Description		Drawing Suitability	Status	Project Title																												
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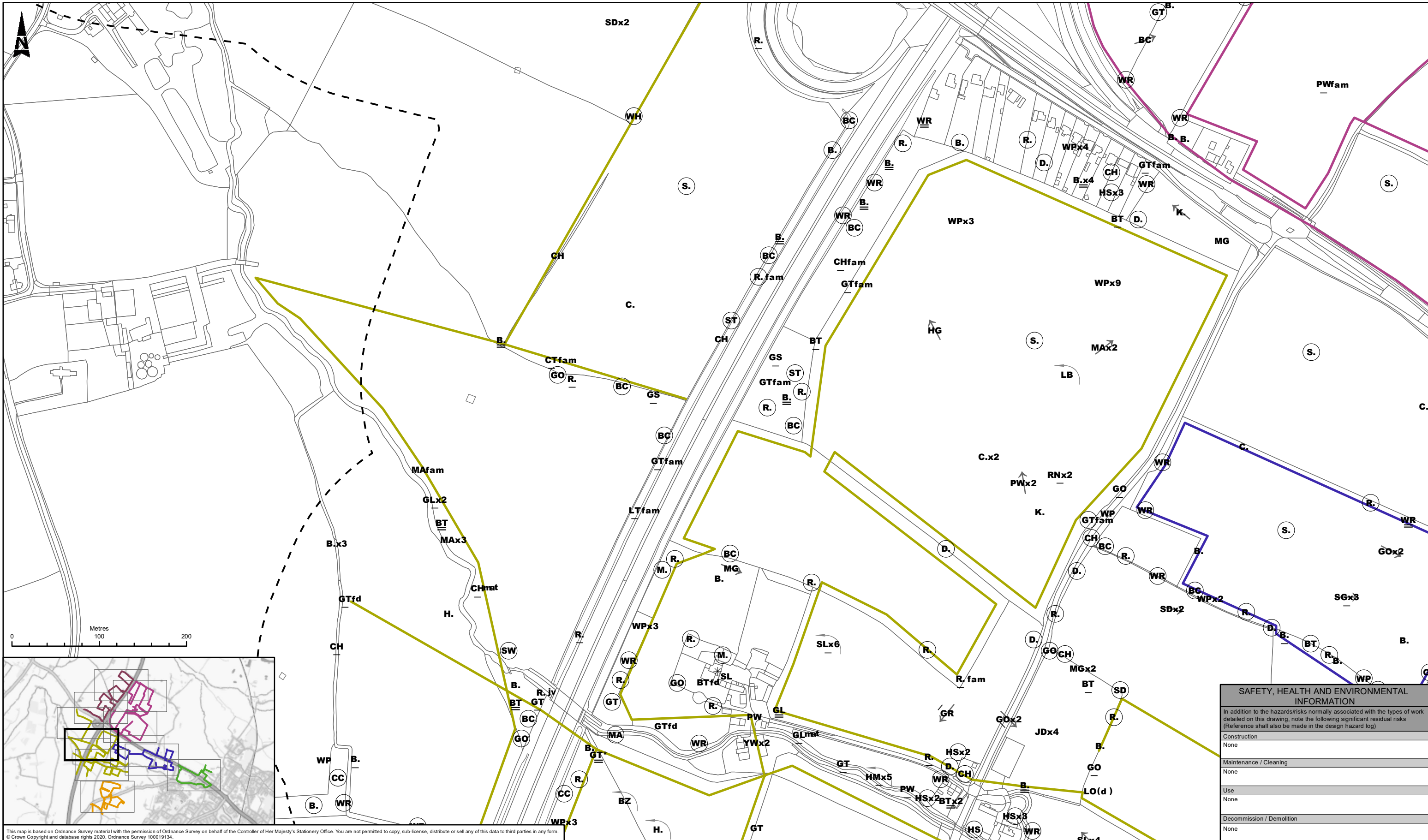


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LEGEND		SPECIES (BTO CODES)	
	250M STUDY AREA	fd	CARRYING FOOD
	TRANSECT 4	mat	CARRYING NEST MATERIAL
	TRANSECT 5	(d)	DEAD
	TRANSECT 6	fam	FAMILY
	TRANSECT 7		FLYING
	TRANSECT 8		FORAGING IN FLIGHT
	TRANSECT 9	ju	JUVENILE
	ALARM CALL		OCCUPIED NEST
	CALLING		SINGING
B.	BLACKBIRD	D.	DUNNOCK
BC	BLACKCAP	HM	HOUSE MARTIN
BT	BLUE TIT	G.	GREEN WOODPECKER
BZ	BUZZARD	HS	HOUSE SPARROW
C.	CARRION CROW	JD	JACKDAW
CC	CHIFFCHAFF	KF	KINGFISHER
CD	COLLARED DOVE	LB	LESSER BLACK-BACKED GULL
CG	CANADA GOOSE	LI	LINNET
CH	CHAFFINCH	LO	LITTLE OWL
CT	COAL TIT	LT	LONG-TAILED TIT
		MA	MALLARD
		MG	MAGPIE
		MH	MOORHEN
		PW	PIED WAGTAIL
		PH	PHEASANT
		R.	ROBIN
		RN	RAVEN
		SD	STOCK DOVE
		SG	STARLING
		SL	SWALLOW
		ST	SONG THRUSH
		SW	SEDGE WARBLER
		WP	WOOD PIGEON
		WH	WHITETHROAT
		WR	WREN
		Y.	YELLOWHAMMER
		YW	YELLOW WAGTAIL

SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION	
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Use	None
Decommission / Demolition	None

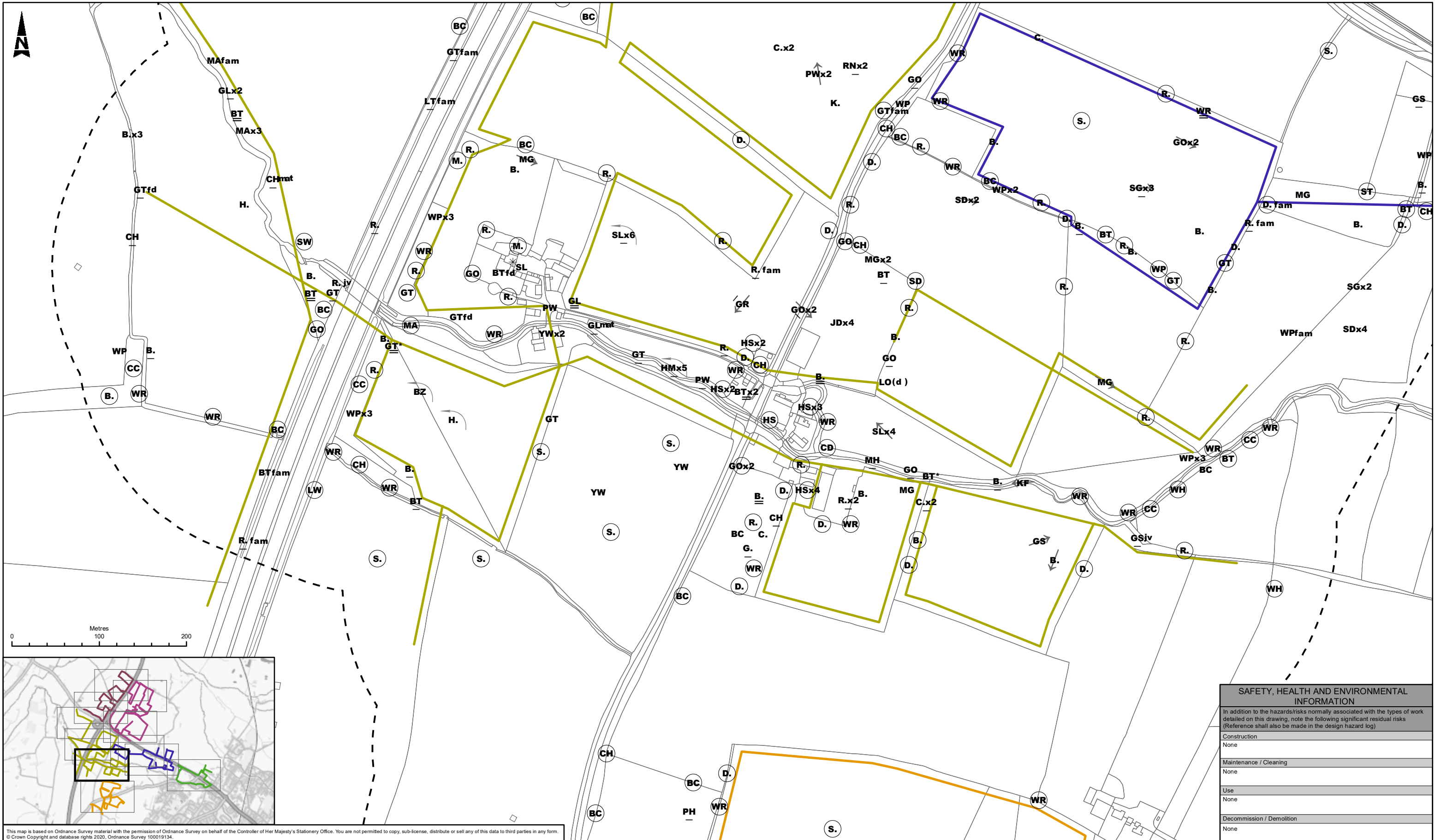
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Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date	
Description		PUBLISHED		A1		M5 Junction 10 Improvements Scheme	
Description		ATKINS		5th Floor, Block 5 Shire Hall Bearland Gloucester GL1 2TH Tel: 08000 514 514 www.atkinsglobal.com		Drawing Title	
Description		Member of the SNC-Lavalin Group		Copyright © Atkins Limited (2023)		FIGURE 7-8C BREEDING BIRD SURVEY RESULTS MAY 2020	
Description		Client		Gloucestershire COUNTY COUNCIL		Drawing Number	
Description		PUBLISHED		A1		Project	
Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date	Originator
Description		GCM5110 - ATK - EBD		ZZ - GS - GI - 000020		Volume	
Description		Original Size: A3		Scale: 1:3,000		Project Ref: 5214106	
Description		Sheet: 3 of 11		Rev: P03			



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LEGEND - 250M STUDY AREA TRANSECT 4 TRANSECT 5 TRANSECT 6 TRANSECT 7 TRANSECT 8 TRANSECT 9 BEHAVIOURS ALARM CALL CALLING		fd CARRYING FOOD mat CARRYING NEST MATERIAL (d) DEAD fam FAMILY FLYING FORAGING IN FLIGHT ju JUVENILE OCCUPIED NEST SINGING		SPECIES (BTO CODES) B. BLACKBIRD BC BLACKCAP BT BLUE TIT BZ BUZZARD C. CARRION CROW CC CHIFFCHAFF CD COLLARED DOVE CG CANADA GOOSE CH CHAFFINCH CT COAL TIT		D. DUNNOCK G. GREEN WOODPECKER GC GOLDCREST GL GREY WAGTAIL GO GOLDFINCH GR GREENFINCH GS GREAT SPOTTED WOODPECKER GT GREAT TIT HG HERRING GULL		HM HOUSE MARTIN HS SPARROW JD JACKDAW KF KINGFISHER LB LESSER BLACK-BACKED GULL LI LINNET LO LITTLE OWL LT LONG-TAILED TIT		LW LESSER WHITETHROAT M. MISTLE THRUSH MA MALLARD MG MAGPIE MH MOORHEN PH PHEASANT R. ROBIN RN RAVEN S. SKYLARK		SD STOCK DOVE SG STARLING SL SWALLOW ST SONG THRUSH SW SEDGE WARBLER WP WOOD PIGEON WH WHITETHROAT WR WREN Y. YELLOWHAMMER YW YELLOW WAGTAIL		Description Status Revision Drawn Checked Reviewed Authorised Issue Date PUBLISHED Status A1 Revision P03 Drawn SD Checked RD Reviewed CC Authorised LJ Issue Date 01/05/23		Drawing Suitability PUBLISHED ATKINS Member of the SNC-Lavalin Group 5th Floor, Block 5 Shire Hall Bearland Gloucester GL1 2TH Tel: 08000 514 514 Copyright © Atkins Limited (2023) www.atkinsglobal.com		Status A1 Project Title M5 Junction 10 Improvements Scheme Drawing Title FIGURE 7-8C BREEDING BIRD SURVEY RESULTS MAY 2020 Drawing Number Project Originator Volume GCCM5J10 - ATK - EBD ZZ - GS - GI - 000020 Location Type Role Number Original Size: A3 Scale 1:4,000 Project Ref: 5214106 Sheet: 4 of 11 Rev: P03	
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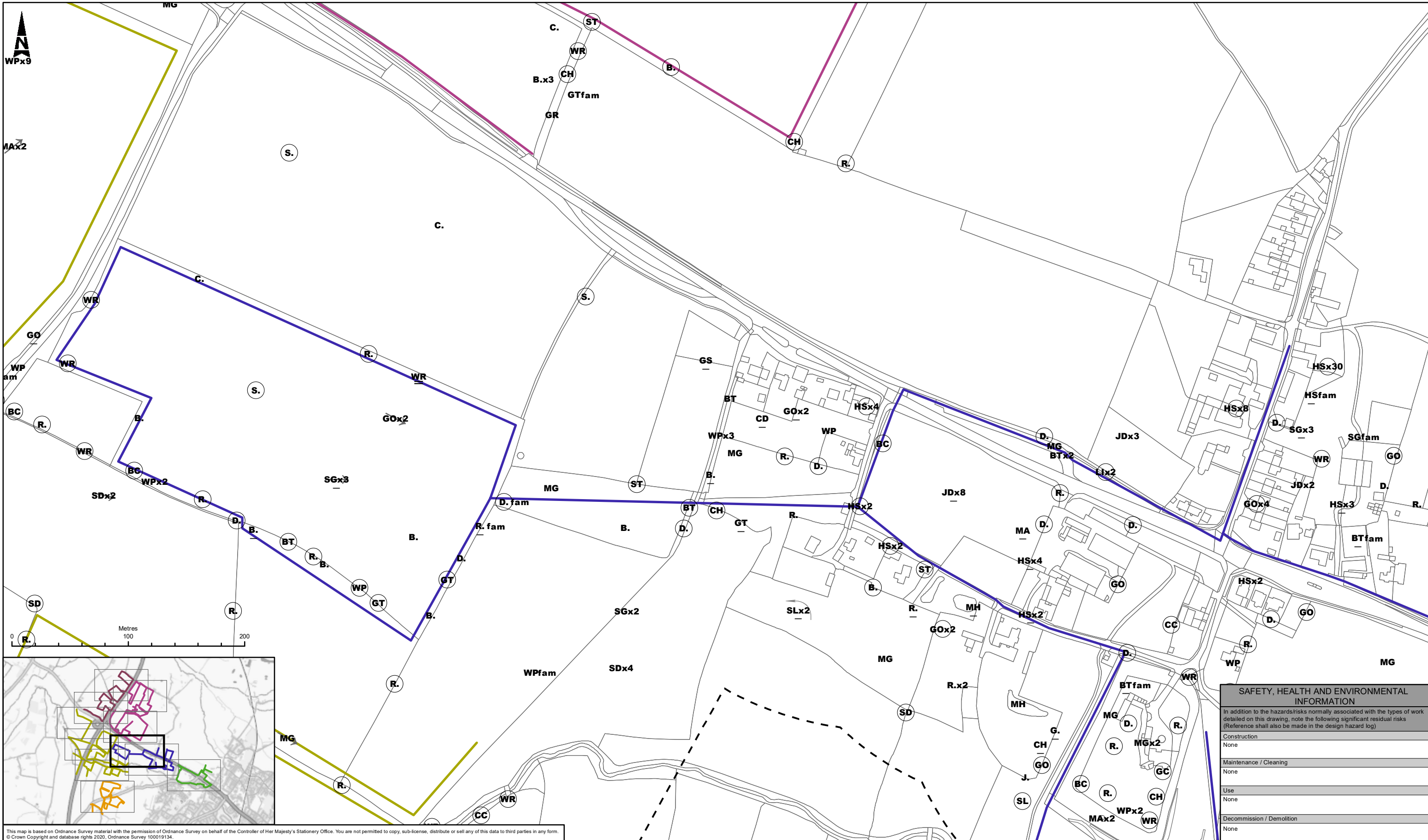
LEGEND	
	250M STUDY AREA
	TRANSECT 4
	TRANSECT 5
	TRANSECT 6
	TRANSECT 8
	TRANSECT 9
	ALARM CALL
	CALLING
fd	CARRYING FOOD
mat	CARRYING NEST MATERIAL
(d)	DEAD
fam	FAMILY
	FLYING
	FORAGING IN FLIGHT
ju	JUVENILE
	OCCUPIED NEST
	SINGING
SPECIES (BTO CODES)	
B.	BLACKBIRD
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CG	CANADA GOOSE
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D.	DUNNOCK
G.	WOODPECKER
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GL	GREY WAGTAIL
GO	GOLDFINCH
GR	GREENFINCH
GS	GREAT SPOTTED WOODPECKER
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HG	HERRING GULL
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LI	LINNET
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M.	MISTLE THRUSH
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S.	SKYLARK
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SW	SEDGE WARBLER
WP	WOOD PIGEON
WH	WHITETHROAT
WR	WREN
Y.	YELLOWHAMMER
YW	YELLOW WAGTAIL

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Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date	
PUBLISHED						01/05/23	

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www.atkinsglobal.com

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COUNTY COUNCIL

SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION	
In addition to the hazards/risks normally associated with the types of work detailed on this drawing, note the following significant residual risks (Reference shall also be made in the design hazard log)	
Construction	None
Maintenance / Cleaning	None
Use	None
Decommission / Demolition	None
Project Title: M5 Junction 10 Improvements Scheme	
Drawing Title: FIGURE 7-8C BREEDING BIRD SURVEY RESULTS MAY 2020	
Drawing Number: Project: GCCM5J10 - ATK - EBD; Originator: Shire Hall; Volume: ZC - GS - GI - 000020	
Original Size: A3	Scale: 1:4,000
Project Ref: 5214106	Sheet: 5 of 11
Rev: P03	Rev: P03



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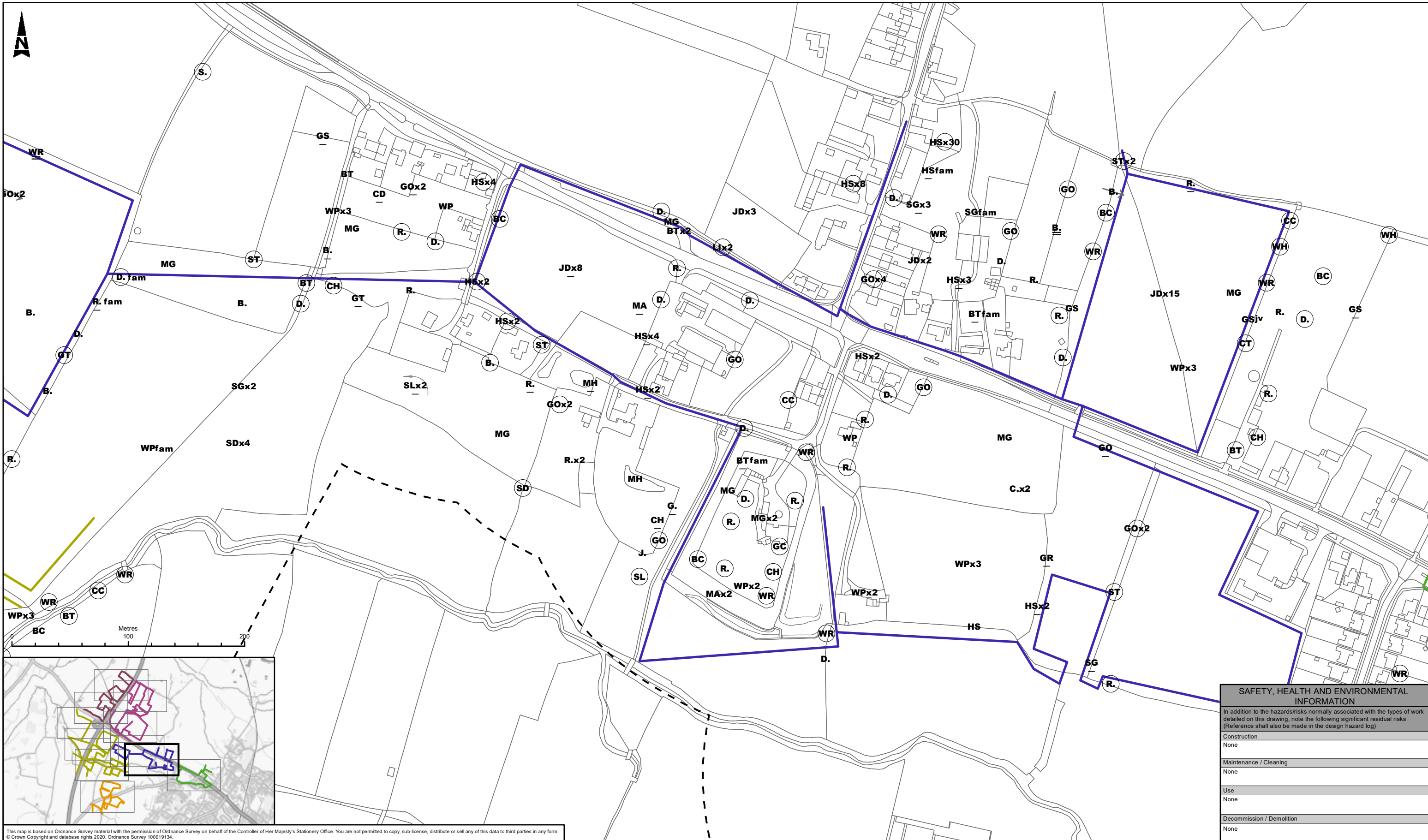
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	AREA	mat	CARRYING NEST MATERIAL
	TRANSECT 4	(d)	DEAD
	TRANSECT 5	fam	FAMILY
	TRANSECT 6		FLYING
	TRANSECT 7		FORAGING IN FLIGHT
	TRANSECT 8	juv	JUVENILE
	TRANSECT 9		OCCUPIED NEST
	ALARM CALL		SINGING
	CALLING		
		B.	BLACKBIRD
		BC	BLACKCAP
		BT	BLUE TIT
		BZ	BUZZARD
		C.	CARRION CROW
		CC	CHIFFCHAFF
		CD	COLLARED DOVE
		CG	CANADA GOOSE
		CH	CHAFFINCH
		CT	COAL TIT
		D.	DUNNOCK
		G.	GREEN WOODPECKER
		GC	GOLDCREST
		GL	GREY WAGTAIL
		GO	GOLDFINCH
		GR	GREENFINCH
		GS	GREAT SPOTTED WOODPECKER
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		SL	SWALLOW
		ST	SONG THRUSH
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		WR	WREN
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Description	Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date
PUBLISHED		P03	SD	RD	CC	LJ	01/05/23

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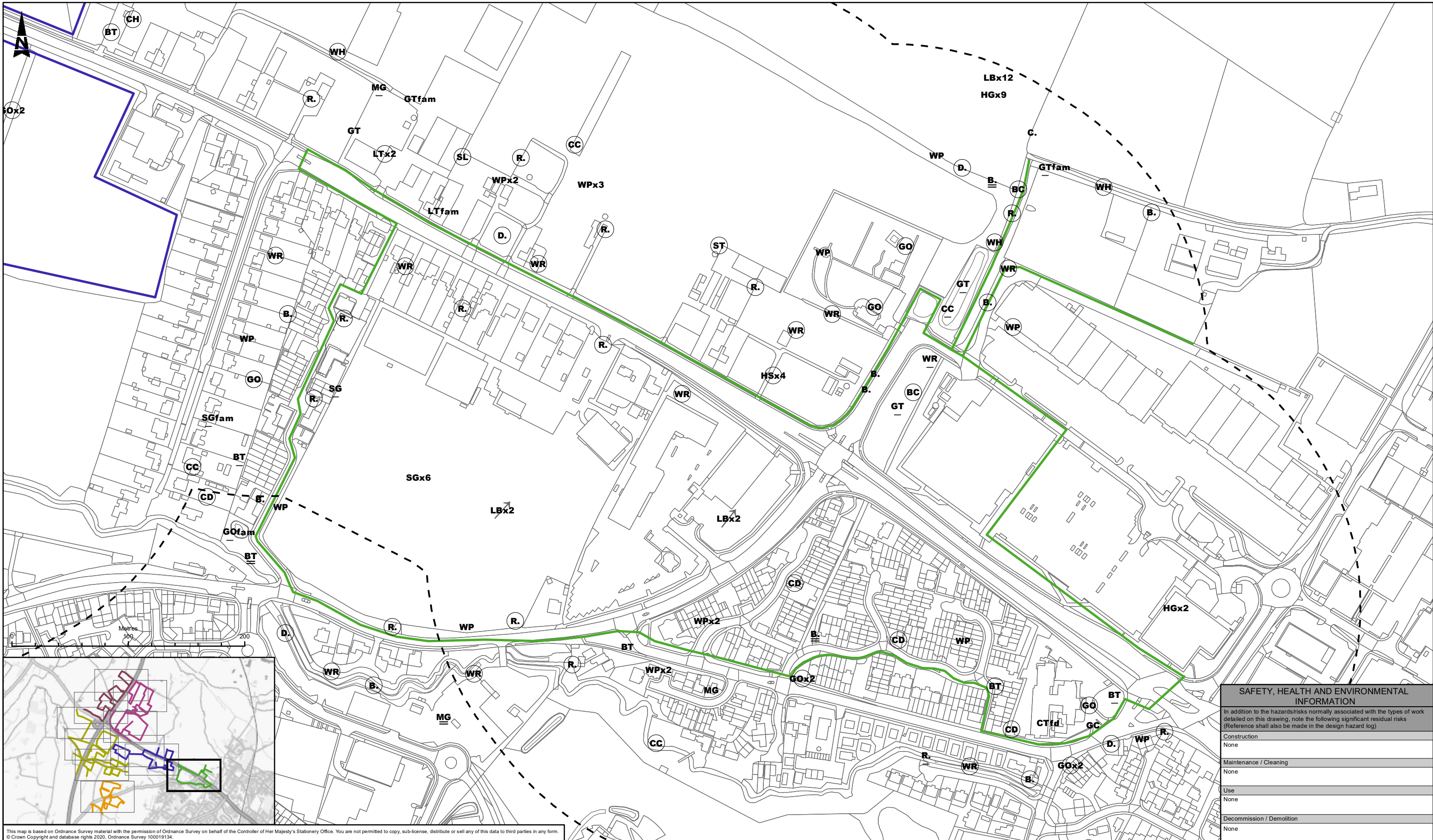
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ATKINS		5th Floor, Block 5 Shire Hall Bearland Gloucester GL1 2TH Tel: 08000 514 514 www.atkinsglobal.com		Drawing Title FIGURE 7-8C BREEDING BIRD SURVEY RESULTS MAY 2020	
Copyright © Atkins Limited (2023)		Client gloucestershire COUNTY COUNCIL		Drawing Number Project: GCCM5J10 - ATK - EBD Originator: Shire Hall Volume: ZZ - GS - GI - 000020	
Original Size: A3	Scale: 1:3,000	Project Ref: 5214106	Sheet: 6 of 11	Rev: P03	



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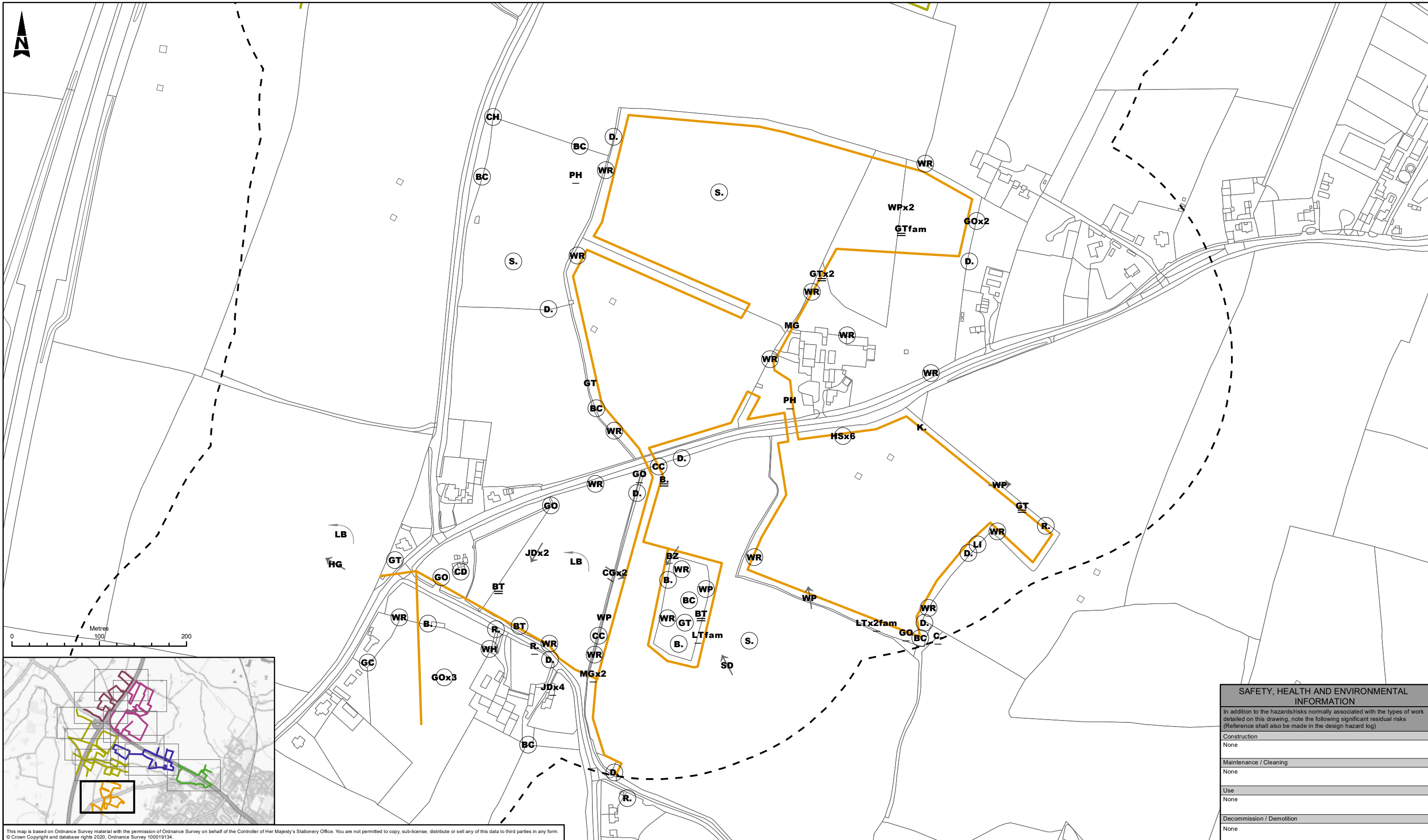
LEGEND 		SPECIES (BTO CODES) B. BLACKBIRD BC BLACKCAP BT BLUE TIT BZ BUZZARD C. CARRION CROW CC CHIFFCHAFF CD COLLARED DOVE CG CANADA GOOSE CH CHAFFINCH CT COAL TIT D. DUNNOCK G. GREEN WOODPECKER GC GOLDCREST GL GREY WAGTAIL GO GOLDFINCH GR GREENFINCH GS GREAT SPOTTED WOODPECKER GT GREAT TIT HG HERRING GULL HM HOUSE MARTIN HS SPARROW JD JACKDAW KF KINGFISHER LB LESSER BLACK-BACKED GULL LI LINNET LO LITTLE OWL LT LONG-TAILED TIT LW LESSER WHITETHROAT M. MISTLE THRUSH MA MALLARD MG MAGPIE MH MOORHEN PW PIED WAGTAIL PH PHEASANT R. ROBIN RN RAVEN S. SKYLARK SD STOCK DOVE SG STARLING SL SWALLOW ST SONG THRUSH SW SEDGE WARBLER WP WOOD PIGEON WH WHITETHROAT WR WREN Y. YELLOWHAMMER YW YELLOW WAGTAIL		BEHAVIOURS = ALARM CALL - CALLING fd CARRYING FOOD mat CARRYING NEST MATERIAL (d) DEAD fam FAMILY → FLYING → FORAGING IN FLIGHT ju JUVENILE * OCCUPIED NEST ○ SINGING		Description <table border="1"> <tr><th>Status</th><th>Revision</th><th>Drawn</th><th>Checked</th><th>Reviewed</th><th>Authorised</th><th>Issue Date</th></tr> <tr><td>PUBLISHED</td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </table>	Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date	PUBLISHED							Drawing Suitability PUBLISHED ATKINS Member of the SNC-Lavalin Group 5th Floor, Block 5 Shire Hall Bearland Gloucester GL1 2TH Tel: 08000 514 514 www.atkinsglobal.com Copyright © Atkins Limited (2023)	Status A1	Project Title M5 Junction 10 Improvements Scheme Drawing Title FIGURE 7-8C BREEDING BIRD SURVEY RESULTS MAY 2020 Drawing Number Project: GCCM5J10 - ATK - EBD Originator: ZZ - GS - GI - 000020 Volume:																											
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Client Gloucestershire COUNTY COUNCIL					Drawing Number Project Originator Volume GCCM5J10 - ATK - EBD ZZ - GS - GI - 000020		Original Location Scale Project Ref. Sheet. Rev. Size: A3 1:3,000 5214106 8 of 11 P03																

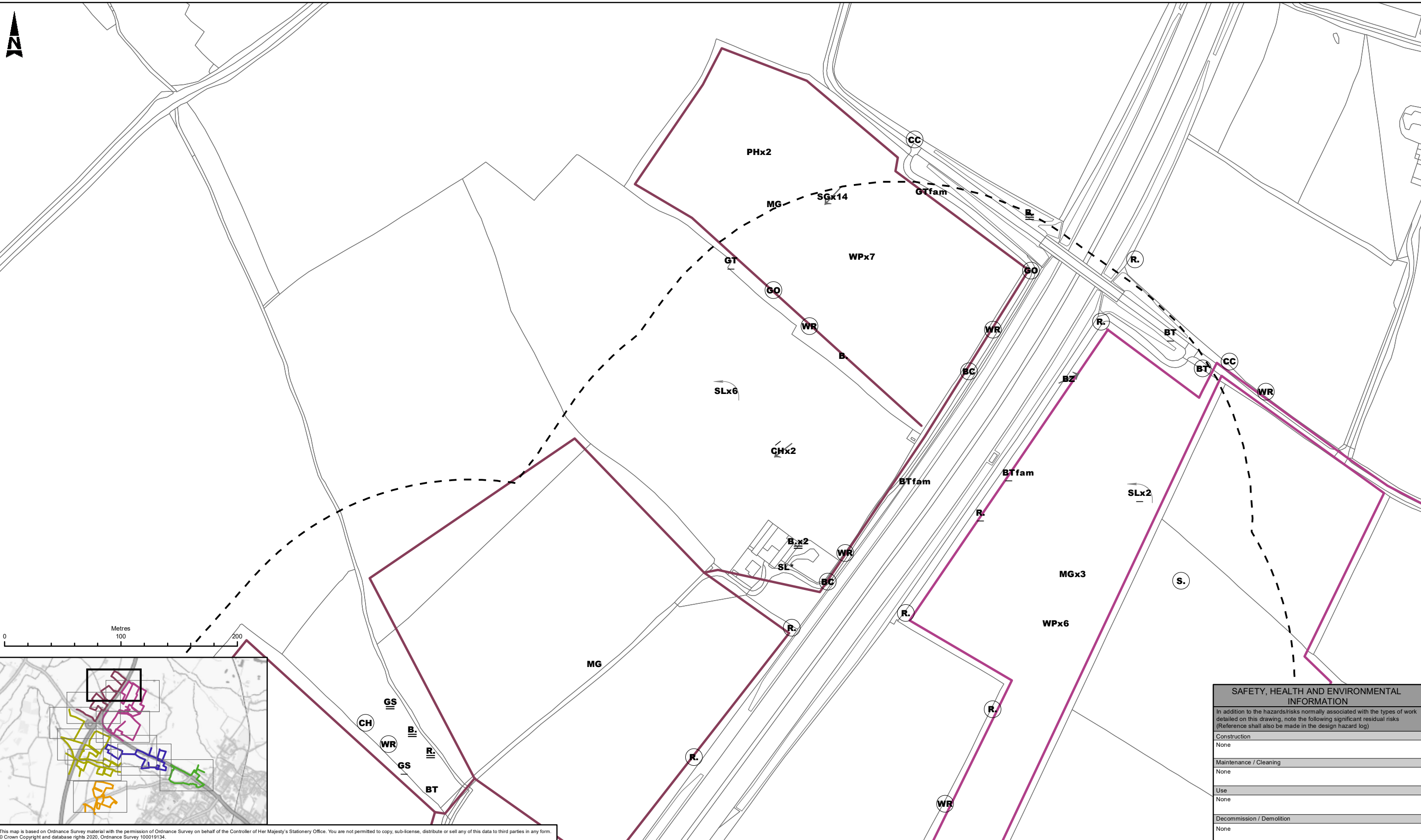


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GC	GOLDCREST	BT	BLUE TIT
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GO	GOLDFINCH	C.	CARRION CROW
GR	GREENFINCH	CC	CHIFFCHAFF
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LB	LESSER BLACK-BACKED GULL	GL	GREY WAGTAIL
LI	LINNET	GO	GOLDFINCH
LO	LITTLE OWL	GR	GREENFINCH
LT	LONG-TAILED TIT	GS	GREAT SPOTTED WOODPECKER
LW	LESSER WHITETHROAT	GT	GREAT TIT
M.	MISTLE THRUSH	HG	HERRING GULL
MA	MALLARD	HM	HOUSE MARTIN
MG	MAGPIE	HS	HOUSE SPARROW
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SD	STOCK DOVE	LW	LESSER WHITETHROAT
SG	STARLING	M.	MISTLE THRUSH
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WP	WOOD PIGEON	PW	PIED WAGTAIL
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WR	WREN	R.	ROBIN
Y.	YELLOWHAMMER	RN	RAVEN
YW	YELLOW WAGTAIL	S.	SKYLARK

Description		Drawing Suitability	Status	Project Title																								
PUBLISHED		PUBLISHED	A1	M5 Junction 10 Improvements Scheme																								
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Project	Originator	Volume																										
GCCM5J10 - ATK - EBD	ZZ - GS - GI - 000020																											
<table border="1"> <tr><th>Status</th><th>Revision</th><th>Drawn</th><th>Checked</th><th>Reviewed</th><th>Authorised</th><th>Issue Date</th></tr> <tr><td>A1</td><td>P03</td><td>SD</td><td>RD</td><td>CC</td><td>LJ</td><td>01/05/23</td></tr> </table>		Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date	A1	P03	SD	RD	CC	LJ	01/05/23	<table border="1"> <tr> <th>Location</th> <th>Scale</th> <th>Project Ref.</th> <th>Sheet</th> <th>Number</th> <th>Rev.</th> </tr> <tr> <td>A3</td> <td>1:4,000</td> <td>5214106</td> <td>9 of 11</td> <td></td> <td>P03</td> </tr> </table>	Location	Scale	Project Ref.	Sheet	Number	Rev.	A3	1:4,000	5214106	9 of 11		P03
Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date																						
A1	P03	SD	RD	CC	LJ	01/05/23																						
Location	Scale	Project Ref.	Sheet	Number	Rev.																							
A3	1:4,000	5214106	9 of 11		P03																							



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SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION	
In addition to the hazards/risks normally associated with the types of work detailed on this drawing, note the following significant residual risks (Reference shall also be made in the design hazard log)	
Construction	None
Maintenance / Cleaning	None
Use	None
Decommission / Demolition	None

LEGEND

- 250M STUDY AREA
- TRANSECT 4
- TRANSECT 5
- TRANSECT 6
- TRANSECT 7
- TRANSECT 8
- TRANSECT 9
- BEHAVIOURS**
- = ALARM CALL
- CALLING
- fd** CARRYING FOOD
- mat** CARRYING NEST MATERIAL
- (d)** DEAD
- fam** FAMILY
- FLYING
- FORAGING IN FLIGHT
- ju** JUVENILE
- * OCCUPIED NEST
- SINGING

- SPECIES (BTO CODES)**
- B. BLACKBIRD
 - BC BLACKCAP
 - BT BLUE TIT
 - BZ BUZZARD
 - C. CARRION CROW
 - CD COLLARED DOVE
 - CG CANADA GOOSE
 - CH CHAFFINCH
 - CT COAL TIT

- D. DUNNOCK
- G. GREEN WOODPECKER
- GC GOLDCREST
- GL GREY WAGTAIL
- GO GOLDFINCH
- GR GREENFINCH
- GS GREAT SPOTTED WOODPECKER
- GT GREAT TIT
- HG HERRING GULL

- HM HOUSE MARTIN
- HS HOUSE SPARROW
- JD JACKDAW
- KF KINGFISHER
- LB LESSER BLACK-BACKED GULL
- LI LINNET
- LO LITTLE OWL
- LT LONG-TAILED TIT

- LW LESSER WHITETHROAT
- M. MISTLE THRUSH
- MA MALLARD
- MG MAGPIE
- MH MOORHEN
- PW PIED WAGTAIL
- PH PHEASANT
- R. ROBIN
- RN RAVEN
- S. SKYLARK

- SD STOCK DOVE
- SG STARLING
- SL SWALLOW
- ST SONG THRUSH
- SW SEDGE WARBLER
- WP WOOD PIGEON
- WH WHITETHROAT
- WR WREN
- Y. YELLOWHAMMER
- YW YELLOW WAGTAIL

Description	Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date
PUBLISHED	A1	P03	SD	RD	CC	LJ	01/05/23

Drawing Suitability: **PUBLISHED**

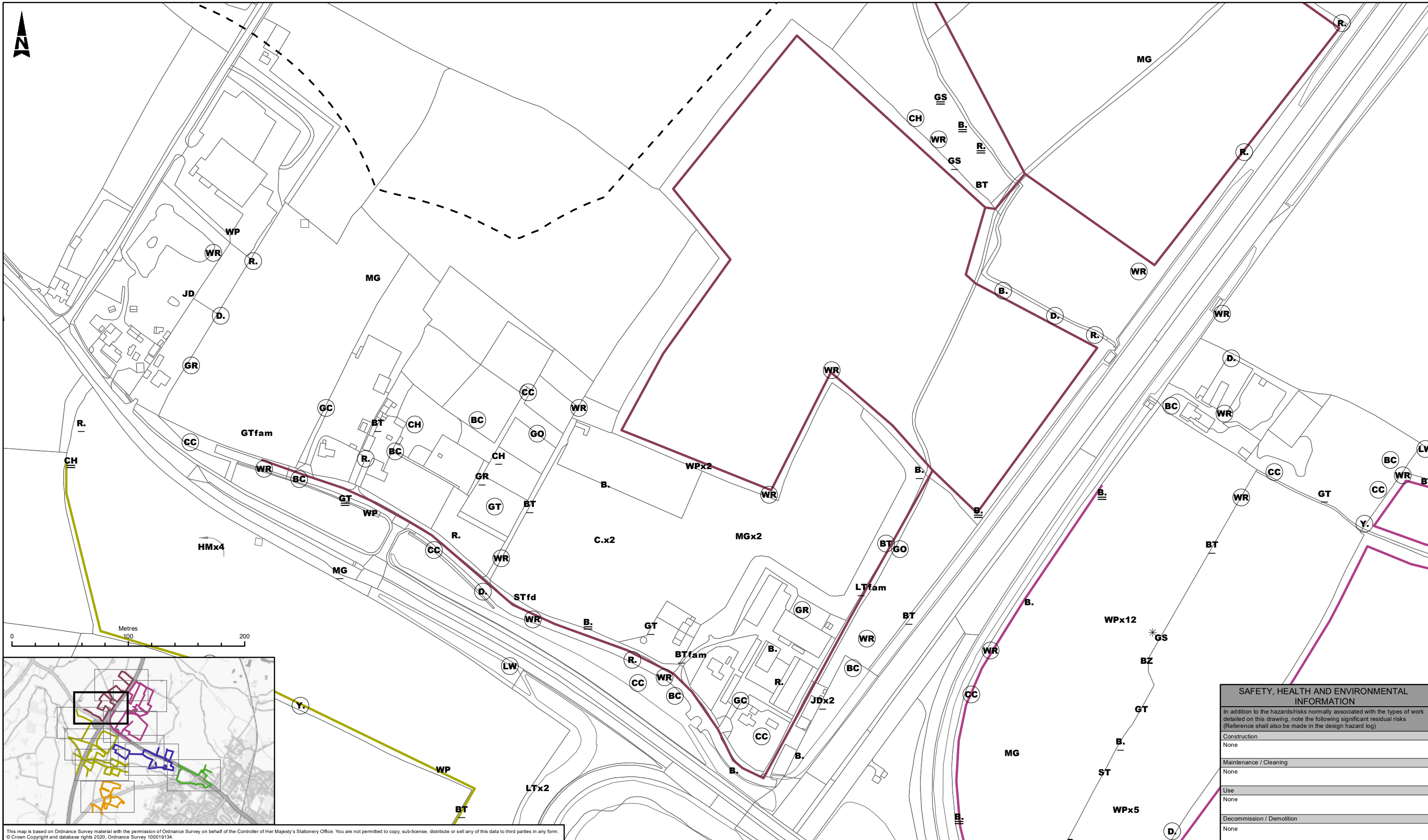
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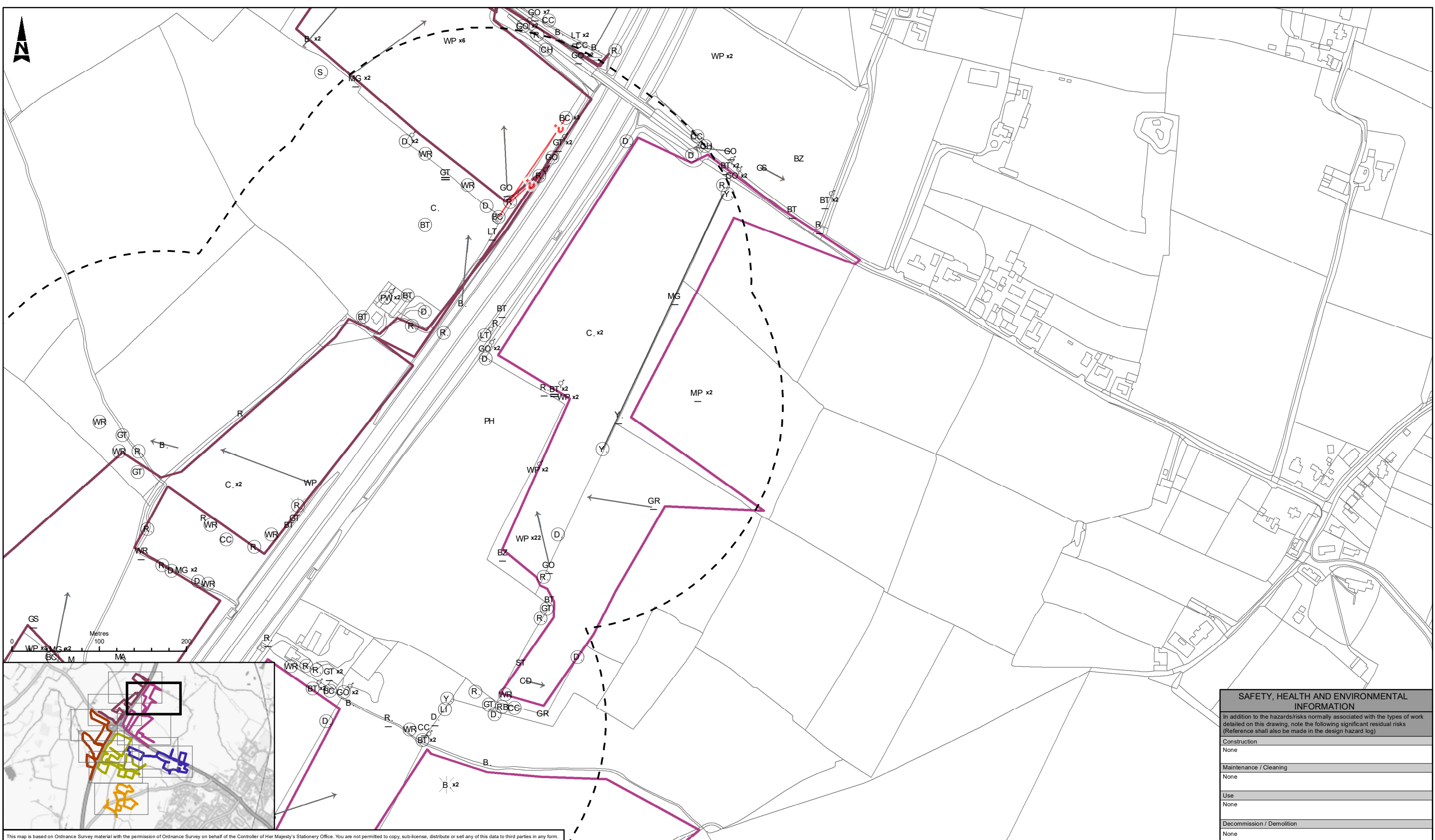
Project Title		M5 Junction 10 Improvements Scheme	
Drawing Title		FIGURE 7-8C BREEDING BIRD SURVEY RESULTS MAY 2020	
Drawing Number		GCCM5J10 - ATK - EBD ZZ - GS - GI - 000020	
Original Size: A3	Scale: 1:3,000	Project Ref: 5214106	Sheet: 10 of 11 Rev: P03



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SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION	
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Construction	None
Maintenance / Cleaning	None
Use	None
Decommission / Demolition	None

LEGEND 		SPECIES (BTO CODES) B. BLACKBIRD BC BLACKCAP BT BLUE TIT BZ BUZZARD C. CARRION CROW CC CHIFFCHAFF CD COLLARED DOVE CG CANADA GOOSE CH CHAFFINCH CT COAL TIT D. DUNNOCK G. GREEN WOODPECKER GC GOLDCREST GL GREY WAGTAIL GO GOLDFINCH GR GREENFINCH GS GREAT SPOTTED WOODPECKER GT GREAT TIT HG HERRING GULL HM HOUSE MARTIN HS SPARROW JD JACKDAW KF KINGFISHER LB LESSER BLACK-BACKED GULL LI LINNET LO LITTLE OWL LT LONG-TAILED TIT LW LESSER WHITETHROAT M. MISTLE THRUSH MA MALLARD MG MAGPIE MH MOORHEN PW PIED WAGTAIL PH PHEASANT R. ROBIN RN RAVEN S. SKYLARK SD STOCK DOVE SG STARLING SL SWALLOW ST SONG THRUSH SW SEDGE WARBLER WP WOOD PIGEON WH WHITETHROAT WR WREN Y. YELLOWHAMMER YW YELLOW WAGTAIL		BEHAVIOURS = ALARM CALL - CALLING		STATUS PUBLISHED A1		PROJECT INFORMATION Project Title: M5 Junction 10 Improvements Scheme Drawing Title: FIGURE 7-8C BREEDING BIRD SURVEY RESULTS MAY 2020 Drawing Number: GCCM5J10 - ATK - EBD ZZ - GS - GI - 000020 Project: 5214106 Sheet: 11 of 11 Rev: P03	
ATKINS Member of the SNC-Lavalin Group 5th Floor, Block 5 Shire Hall Bearland Gloucester GL1 2TH Tel: 08000 514 514 www.atkinsglobal.com		Gloucestershire COUNTY COUNCIL		Status: PUBLISHED Issue Date: 01/05/23		Client: Gloucestershire County Council			



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SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION	
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Maintenance / Cleaning	None
Use	None
Decommission / Demolition	None

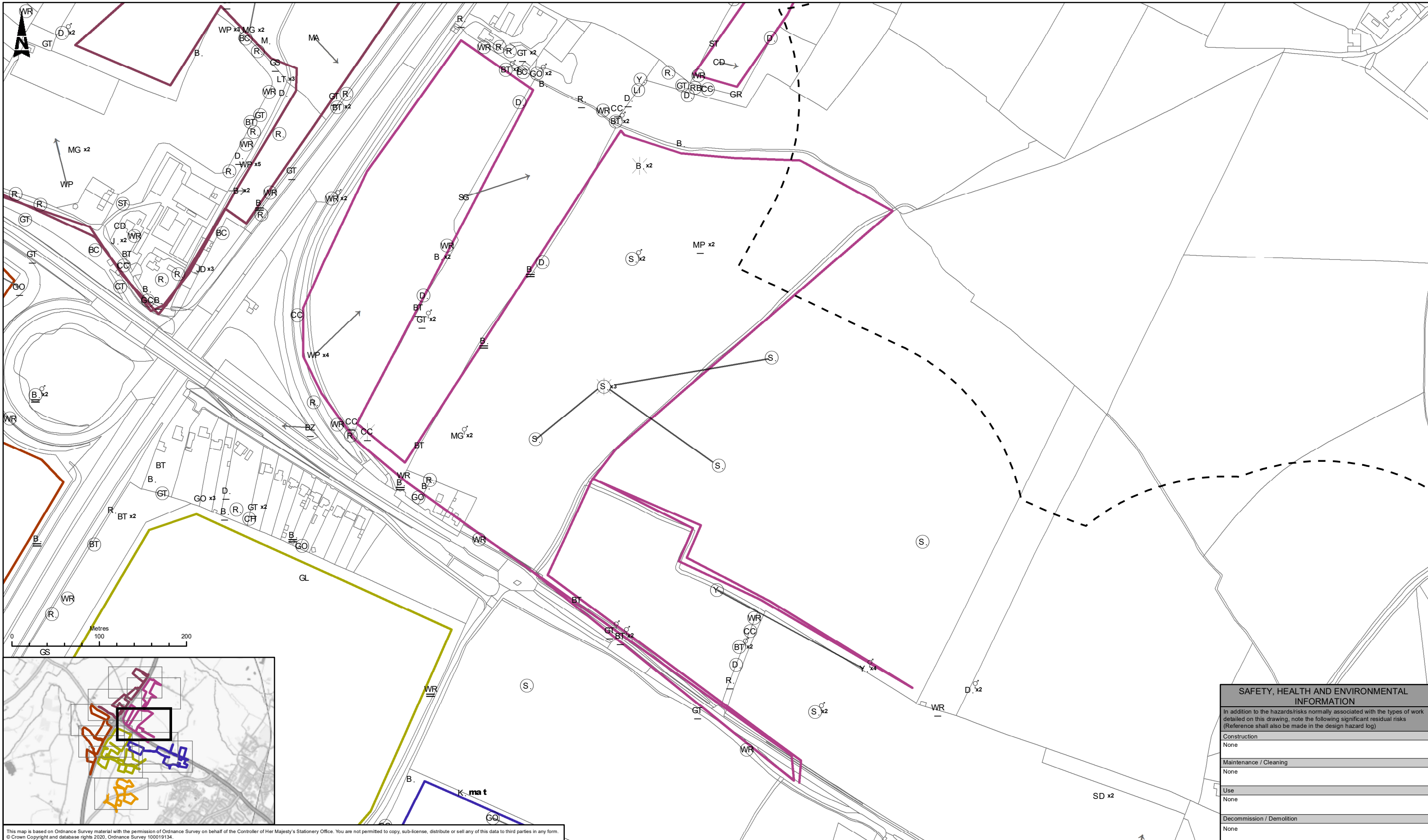
LEGEND		SPECIES (BTO CODES)	
[] 250M STUDY AREA	→ FLYING	B. BLACKBIRD	CT COAL TIT
[] TRANSECT 4	↻ PAIR	BC BLACKCAP	D. DUNNOCK
[] TRANSECT 5	○ SINGING	BF BULLFINCH	ET LITTLE EGRET
[] TRANSECT 6	⊙ AGGRESSIVE INTERACTION	BH BLACK-HEADED GULL	G. GREEN WOODPECKER
[] TRANSECT 8	LINK	BT BLUE TIT	GC GOLDCREST
[] TRANSECT 9	— SAME INDIVIDUAL	C. CARRION CROW	GL GREY WAGTAIL
[] TRANSECT 10	--- DIFFERENT INDIVIDUAL	BZ BUZZARD	GO GOLDFINCH
[] BEHAVIOURS	-? PROBABLY SAME INDIVIDUAL	CC CHIFFCHAFF	GR GREENFINCH
[] = ALARM CALL		CD COLLARED DOVE	LI LINNET
[] - CALLING		CH CHAFFINCH	
[] CARRYING NEST MATERIAL			
		H. GREY HERON	LT LONG-TAILED TIT
		D. DUNNOCK	M. MISTLE THRUSH
		ET LITTLE EGRET	S. SKYLARK
		G. GREEN WOODPECKER	SD STOCK DOVE
		GC GOLDCREST	SG STARLING
		GL GREY WAGTAIL	SH SPARROWHAWK
		GO GOLDFINCH	SL SWALLOW
		GR GREENFINCH	ST SONG THRUSH
		LI LINNET	WR WREN
			WW WILLOW WARBLER
			Y. YELLOWHAMMER

Description	Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date
PUBLISHED	A1						01/05/23

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Project Title	M5 Junction 10 Improvement		
Drawing Title	FIGURE 7-8D BREEDING BIRD SURVEY RESULTS APRIL 2021		
Drawing Number	Project	Originator	Volume
	GCCM5J10 - ATK - EBD	ZZ - GS - GI - 000021	
Original Size: A3	Scale: 1:4,000	Project Ref: 5214106	Sheet: 1 of 10 Rev: P02

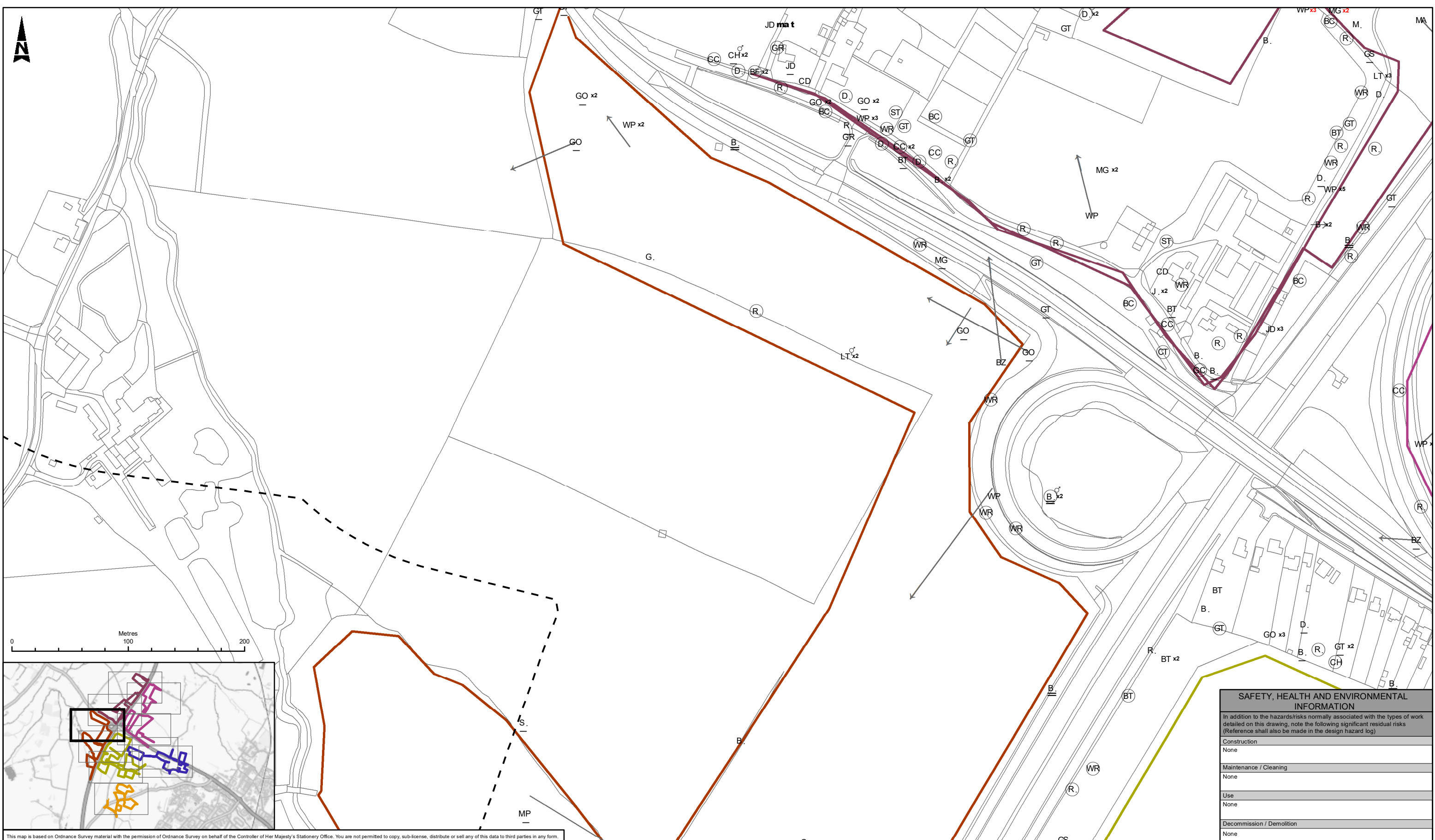


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SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION	
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Construction	None
Maintenance / Cleaning	None
Use	None
Decommission / Demolition	None

LEGEND		SPECIES (BTO CODES)	
	250M STUDY AREA	B.	BLACKBIRD
	TRANSECT 4	BC	BLACKCAP
	TRANSECT 5	BF	BULLFINCH
	TRANSECT 6	BH	BLACK-HEADED GULL
	TRANSECT 8	BT	BLUE TIT
	TRANSECT 9	BZ	BUZZARD
	TRANSECT 10	C.	CARRION CROW
	FLYING	CC	CHIFFCHAFF
	PAIR	CD	COLLARED DOVE
	SINGING	CH	CHAFFINCH
	AGGRESSIVE INTERACTION	CT	COAL TIT
	LINK	D.	DUNNOCK
	SAME INDIVIDUAL	ET	LITTLE EGRET
	DIFFERENT INDIVIDUAL	G.	GREEN WOODPECKER
	PROBABLY SAME INDIVIDUAL	GC	GOLDCREST
	ALARM CALL	GL	GREY WAGTAIL
	CALLING	GO	GOLDFINCH
	CARRYING NEST MATERIAL	GR	GREENFINCH
		GS	GREAT SPOTTED WOODPECKER
		GT	GREAT TIT
		H.	GREY HERON
		HG	HERRING GULL
		HS	HOUSE SPARROW
		J.	JAY
		JD	JACKDAW
		K.	KESTREL
		KF	KINGFISHER
		KT	RED KITE
		LB	LESSER BLACK-BACKED GULL
		LI	LINNET
		LT	LONG-TAILED TIT
		M.	MISTLE THRUSH
		MA	MALLARD
		MG	MAGPIE
		MH	MOORHEN
		MP	MEADOW PIPIT
		PW	PIED WAGTAIL
		PH	PHEASANT
		R.	ROBIN
		RB	REED BUNTING
		RO	ROOK
		RN	RAVEN
		S.	SKYLARK
		SD	STOCK DOVE
		SG	STARLING
		SH	SPARROWHAWK
		SL	SWALLOW
		ST	SONG THRUSH
		WP	WOOD PIGEON
		WR	WREN
		WW	WILLOW WARBLER
		Y.	YELLOWHAMMER

Description		Drawing Suitability	Status	Project Title
Status: Revision Drawn Checked Reviewed Authorised Issue Date		PUBLISHED	A1	M5 Junction 10 Improvement
Description		ATKINS	5th Floor, Block 5 Shire Hall Bearland Gloucester GL1 2TH	FIGURE 7-8D BREEDING BIRD SURVEY RESULTS APRIL 2021
Status: Revision Drawn Checked Reviewed Authorised Issue Date		Member of the SNC-Lavalin Group	Tel: 08000 514 514	
Description		Copyright © Atkins Limited (2023)	www.atkinsglobal.com	
Status: Revision Drawn Checked Reviewed Authorised Issue Date		Client	Gloucestershire COUNTY COUNCIL	Drawing Number
Description		Project Originator Volume GCCM5J10 - ATK - EBD ZZ - GS - GI - 000021		
Status: Revision Drawn Checked Reviewed Authorised Issue Date		Location Type Role Number	Original Size: A3 Scale: 1:4,000 Project Ref: 5214106 Sheet: 2 of 10 Rev: P02	



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LEGEND		SPECIES (BTO CODES)	
	250M STUDY AREA	B.	BLACKBIRD
	TRANSECT 4	BC	BLACKCAP
	TRANSECT 5	BF	BULLFINCH
	TRANSECT 6	BH	BLACK-HEADED GULL
	TRANSECT 8	BT	BLUE TIT
	TRANSECT 9	BZ	BUZZARD
	TRANSECT 10	C.	CARRION CROW
	ALARM CALL	CC	CHIFFCHAFF
	CALLING	CD	COLLARED DOVE
	CARRYING NEST MATERIAL	CH	CHAFFINCH
	FLYING PAIR	CT	COAL TIT
	SINGING	D.	DUNNOCK
	AGGRESSIVE INTERACTION	ET	LITTLE EGRET
	LINK	G.	GREEN WOODPECKER
	SAME INDIVIDUAL	GC	GOLDCREST
	DIFFERENT INDIVIDUAL	GL	GREY WAGTAIL
	PROBABLY SAME INDIVIDUAL	GO	GOLDFINCH
		GR	GREENFINCH
		GS	GREAT SPOTTED WOODPECKER
		GT	GREAT TIT
		H.	GREY HERON
		HG	HERRING GULL
		HS	HOUSE SPARROW
		J.	JAY
		JD	JACKDAW
		K.	KESTREL
		KF	KINGFISHER
		KT	RED KITE
		LB	LESSER BLACK-BACKED GULL
		LI	LINNET
		LT	LONG-TAILED TIT
		M.	MISTLE THRUSH
		MA	MALLARD
		MG	MAGPIE
		MH	MOORHEN
		MP	MEADOW PIPIT
		PW	PIED WAGTAIL
		PH	PHEASANT
		R.	ROBIN
		RB	REED BUNTING
		RO	ROOK
		RN	RAVEN
		S.	SKYLARK
		SD	STOCK DOVE
		SG	STARLING
		SH	SPARROWHAWK
		SL	SWALLOW
		ST	SONG THRUSH
		WP	WOOD PIGEON
		WR	WREN
		WW	WILLOW WARBLER
		Y.	YELLOWHAMMER

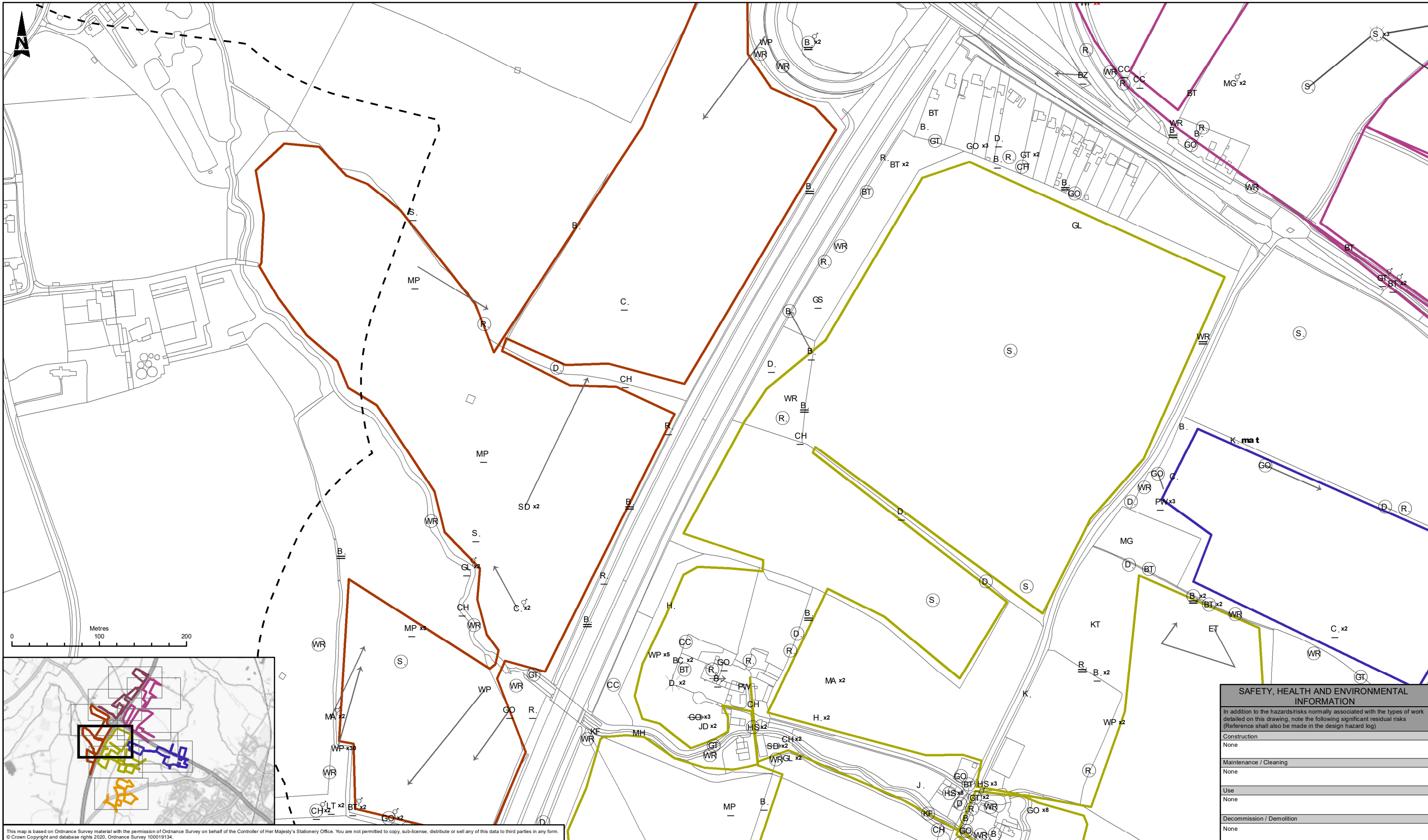
Description	Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date
Published	A1	P02	SD	RD	CC	LJ	01/05/23

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SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION	
In addition to the hazards/risks normally associated with the types of work detailed on this drawing, note the following significant residual risks (Reference shall also be made in the design hazard log)	
Construction	None
Maintenance / Cleaning	None
Use	None
Decommission / Demolition	None

Project Title	M5 Junction 10 Improvement		
Drawing Title	FIGURE 7-8D BREEDING BIRD SURVEY RESULTS APRIL 2021		
Drawing Number	Project	Originator	Volume
	GCCM5J10 - ATK - EBD	ZZ - GS - GI - 000021	
Original Size: A3	Scale: 1:3,000	Project Ref: 5214106	Sheet: 3 of 10 Rev: P02



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Construction	None
Maintenance / Cleaning	None
Use	None
Decommission / Demolition	None

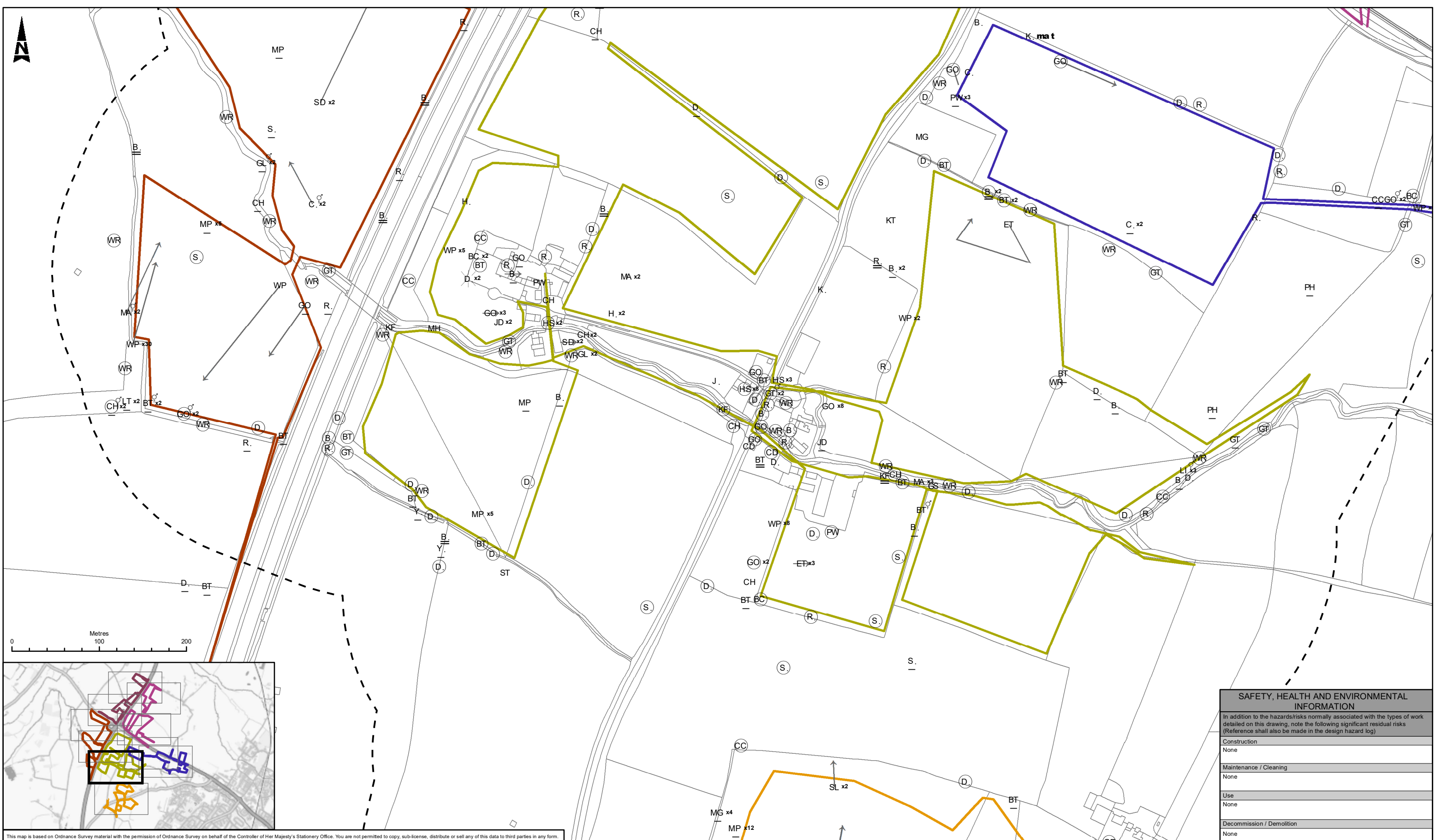
LEGEND		SPECIES (BTO CODES)	
	250M STUDY AREA	B.	BLACKBIRD
	TRANSECT 4	BC	BLACKCAP
	TRANSECT 5	BF	BULLFINCH
	TRANSECT 6	BH	BLACK-HEADED GULL
	TRANSECT 8	BT	BLUE TIT
	TRANSECT 9	BZ	BUZZARD
	TRANSECT 10	C.	CARRION CROW
	FLYING	CC	CHIFFCHAFF
	PAIR	CD	COLLARED DOVE
	SINGING	CH	CHAFFINCH
	AGGRESSIVE INTERACTION	CT	COAL TIT
	LINK	D.	DUNNOCK
	SAME INDIVIDUAL	ET	LITTLE EGRET
	DIFFERENT INDIVIDUAL	G.	GREEN WOODPECKER
	PROBABLY SAME INDIVIDUAL	GC	GOLDCREST
	ALARM CALL	GL	GREY WAGTAIL
	CALLING	GO	GOLDFINCH
	CARRYING NEST MATERIAL	GR	GREENFINCH
		GS	GREAT SPOTTED WOODPECKER
		GT	GREAT TIT
		H.	GREY HERON
		HG	HERRING GULL
		HS	HOUSE SPARROW
		J.	JAY
		JD	JACKDAW
		K.	KESTREL
		KF	KINGFISHER
		KT	RED KITE
		LB	LESSER BLACK-BACKED GULL
		LI	LINNET
		LT	LONG-TAILED TIT
		M.	MISTLE THRUSH
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		PW	PIED WAGTAIL
		PH	PHEASANT
		R.	ROBIN
		RB	REED BUNTING
		RO	ROOK
		RN	RAVEN
		S.	SKYLARK
		SD	STOCK DOVE
		SG	STARLING
		SH	SPARROWHAWK
		SL	SWALLOW
		ST	SONG THRUSH
		WP	WOOD PIGEON
		WR	WREN
		WW	WILLOW WARBLER
		Y.	YELLOWHAMMER

Description	Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date
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Project Title	M5 Junction 10 Improvement		
Drawing Title	FIGURE 7-8D BREEDING BIRD SURVEY RESULTS APRIL 2021		
Drawing Number	Project	Originator	Volume
	GCCM5J10 - ATK - EBD	ZZ - GS - GI - 000021	
Original Size:	A3	Scale	1:4,000
Project Ref:	5214106	Sheet	4 of 10
Rev:		Number	P02



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SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION

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Construction	None
Maintenance / Cleaning	None
Use	None
Decommission / Demolition	None

LEGEND

	→ FLYING
	♀ PAIR
	○ SINGING
	⚡ AGGRESSIVE INTERACTION
	LINK
	— SAME INDIVIDUAL
	- - - DIFFERENT INDIVIDUAL
BEHAVIOURS	⊕ PROBABLY SAME INDIVIDUAL
	— CALLING
	— CARRYING NEST MATERIAL

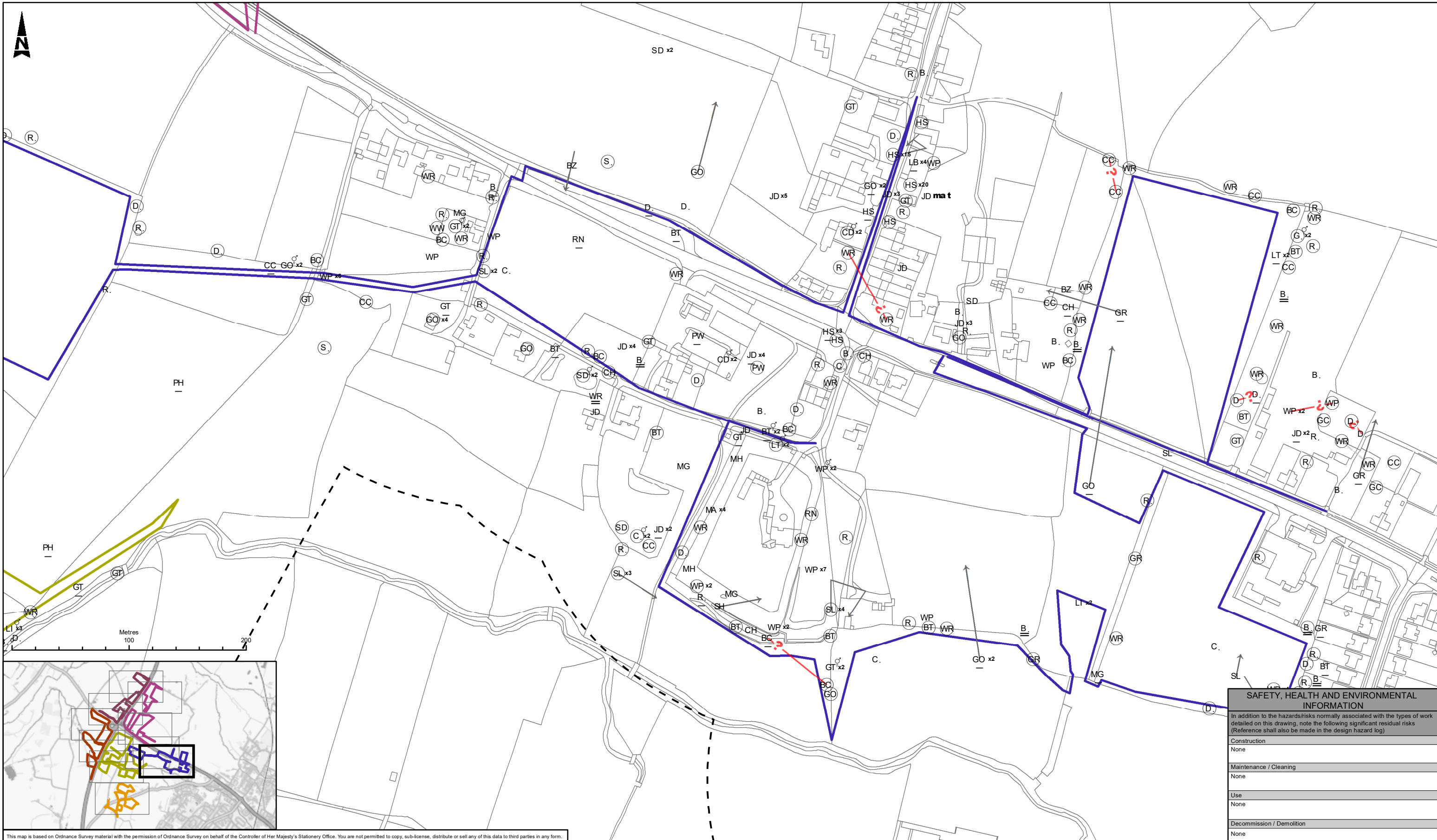
SPECIES (BTO CODES)	CT COAL TIT	H. GREY HERON	LT LONG-TAILED TIT	RN RAVEN
B. BLACKBIRD	D. DUNNOCK	HG HERRING GULL	M. MISTLE THRUSH	S. SKYLARK
BC BLACKCAP	ET LITTLE EGRET	HS HOUSE SPARROW	MA MALLARD	SD STOCK DOVE
BF BULLFINCH	G. GREEN WOODPECKER	J. JAY	MG MAGPIE	SG STARLING
BH BLACK-HEADED GULL	GC GOLDCREST	JD JACKDAW	MH MOORHEN	SH SPARROWHAWK
BT BLUE TIT	GL GREY WAGTAIL	K. KESTREL	MP MEADOW PIPIT	SL SWALLOW
BZ BUZZARD	GO GOLDFINCH	KF KINGFISHER	PW PIED WAGTAIL	ST SONG THRUSH
C. CARRION CROW	GR GREENFINCH	KT RED KITE	PH PHEASANT	WP WOOD PIGEON
CC CHIFFCHAFF	GS GREAT SPOTTED WOODPECKER	LB LESSER BLACK-BACKED GULL	R. ROBIN	WR WREN
CD COLLARED DOVE	GT GREAT TIT	LI LINNET	RO ROOK	WW WILLOW WARBLER
CH CHAFFINCH			Y. YELLOWHAMMER	

Description	Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date
PUBLISHED	A1	P02	SD	RD	CC	LJ	01/05/23

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Project Title	M5 Junction 10 Improvement
Drawing Title	FIGURE 7-8D BREEDING BIRD SURVEY RESULTS APRIL 2021
Drawing Number	Project: GCCM5J10 - ATK - EBD Originator: ZZ - GS - GI - 000021 Volume: 5 of 10
Original Size: A3	Scale: 1:4,000 Project Ref: 5214106 Sheet: 5 of 10 Rev: P02



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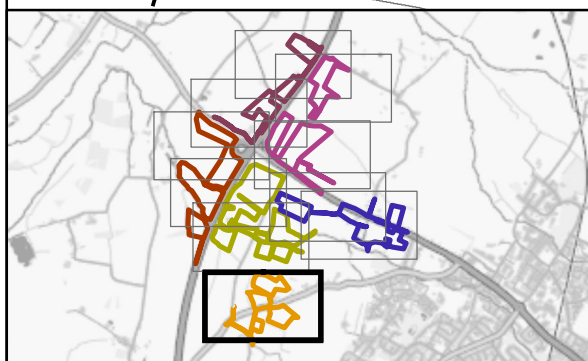
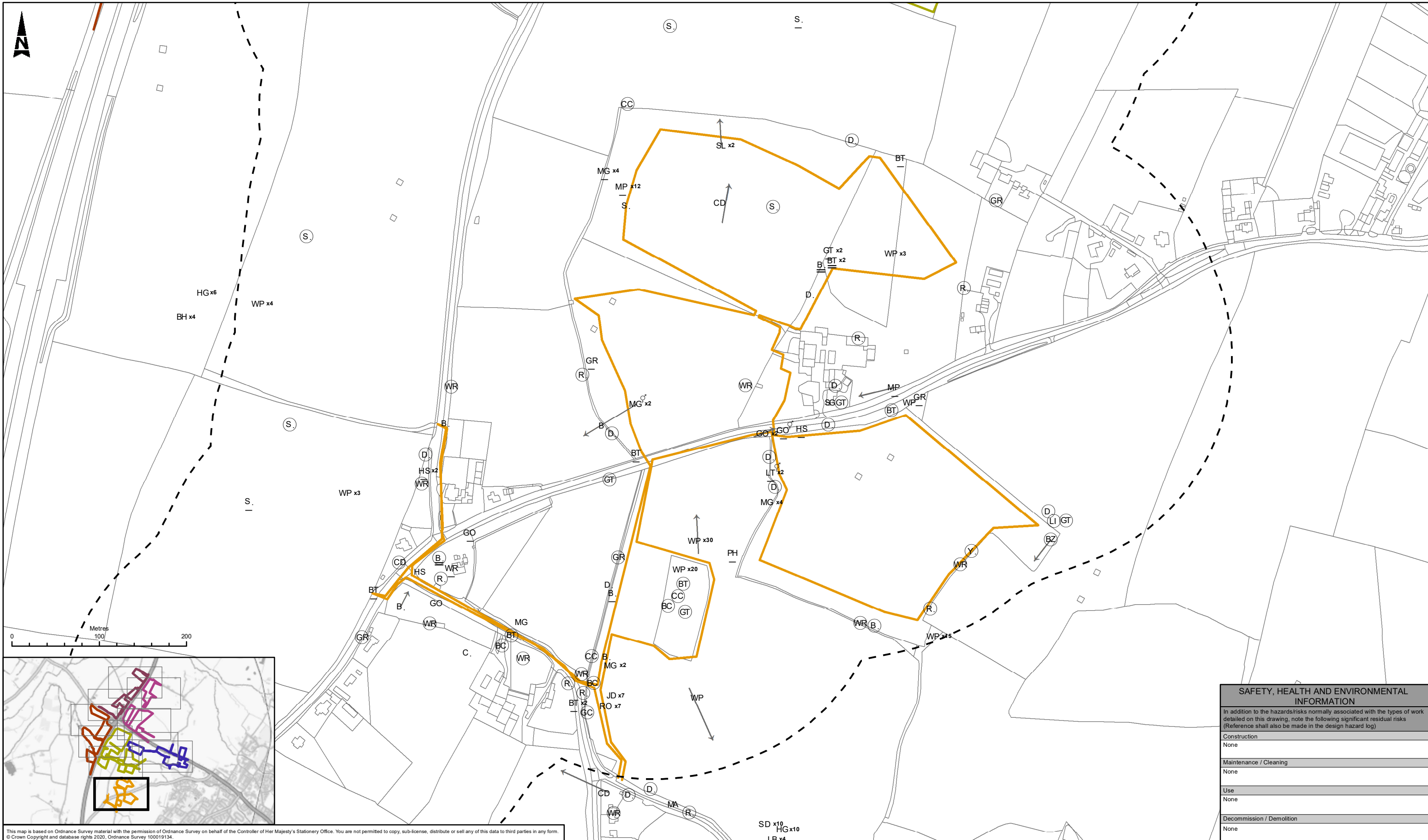
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Construction	None
Maintenance / Cleaning	None
Use	None
Decommission / Demolition	None

- LEGEND**
- 250M STUDY AREA
 - TRANSECT 4
 - TRANSECT 5
 - TRANSECT 6
 - TRANSECT 8
 - TRANSECT 9
 - TRANSECT 10
- BEHAVIOURS**
- ALARM CALL
 - CALLING
 - CARRYING NEST MATERIAL

- SPECIES (BTO CODES)**
- | | | | | |
|----------------------|-----------------------------|-----------------------------|--------------------|-----------------|
| B. BLACKBIRD | CT COAL TIT | H. GREY HERON | LT LONG-TAILED TIT | RN RAVEN |
| BC BLACKCAP | D. DUNNOCK | HG HERRING GULL | M. MISTLE THRUSH | S. SKYLARK |
| BF BULLFINCH | ET LITTLE EGRET | HS HOUSE SPARROW | MA MALLARD | SD STOCK DOVE |
| BH BLACK-HEADED GULL | G. GREEN WOODPECKER | J. JAY | MG MAGPIE | SG STARLING |
| BT BLUE TIT | GC GOLDCREST | JD JACKDAW | MH MOORHEN | SH SPARROWHAWK |
| BZ BUZZARD | GL GREY WAGTAIL | K. KESTREL | MP MEADOW PIPIT | SL SWALLOW |
| C. CARRION CROW | GO GOLDFINCH | KF KINGFISHER | PW PIED WAGTAIL | ST SONG THRUSH |
| CC CHIFFCHAFF | GR GREENFINCH | KT RED KITE | PH PHEASANT | WP WOOD PIGEON |
| CD COLLARED DOVE | GS GREAT SPOTTED WOODPECKER | LB LESSER BLACK-BACKED GULL | R. ROBIN | WR WREN |
| CH CHAFFINCH | GT GREAT TIT | LI LINNET | RO ROOK | Y. YELLOWHAMMER |

Description		Drawing Suitability				Status	Project Title	
Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date	M5 Junction 10 Improvement	
PUBLISHED	A1	SD	RD	CC	LJ	01/05/23		
Description		Drawing Suitability				Status	Project Title	
PUBLISHED		PUBLISHED				A1	FIGURE 7-8D BREEDING BIRD SURVEY RESULTS APRIL 2021	
Description		Drawing Suitability				Status		
PUBLISHED		PUBLISHED				A1	ATKINS Member of the SNC-Lavalin Group 5th Floor, Block 5 Shire Hall Bearland Gloucester GL1 2TH Tel: 08000 514 514 www.atkinsglobal.com Copyright © Atkins Limited (2023)	Drawing Number Project: GCCM5J10 - ATK - EBD Originator: ZZ - GS - GI - 000021 Volume: 7 of 10 Number: P02
Description		Drawing Suitability				Status	Project Title	
PUBLISHED		PUBLISHED				A1	Gloucestershire COUNTY COUNCIL	Drawing Number Project: GCCM5J10 - ATK - EBD Originator: ZZ - GS - GI - 000021 Volume: 7 of 10 Number: P02



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SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION	
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Construction	None
Maintenance / Cleaning	None
Use	None
Decommission / Demolition	None

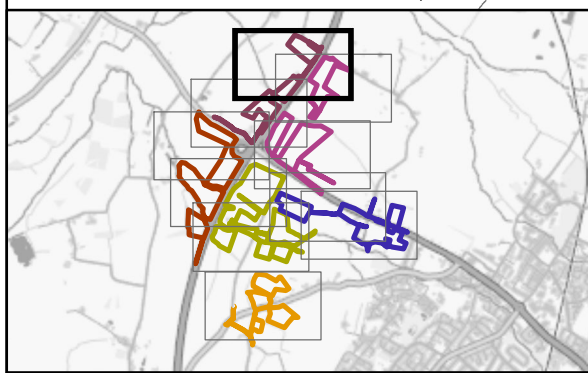
LEGEND		SPECIES (BTO CODES)	
	250M STUDY AREA	B. BLACKBIRD	CT COAL TIT
	TRANSECT 4	BC BLACKCAP	D. DUNNOCK
	TRANSECT 5	BF BULLFINCH	ET LITTLE EGRET
	TRANSECT 6	BH BLACK-HEADED GULL	G. GREEN WOODPECKER
	TRANSECT 8	BT BLUE TIT	GC GOLDCREST
	TRANSECT 9	BZ BUZZARD	GL GREY WAGTAIL
	TRANSECT 10	C. CARRION CROW	GO GOLDFINCH
	ALARM CALL	CC CHIFFCHAFF	GR GREENFINCH
	CALLING	CD COLLARED DOVE	GS GREAT SPOTTED WOODPECKER
	CARRYING NEST MATERIAL	CH CHAFFINCH	GT GREAT TIT
	FLYING	H. GREY HERON	LI LINNET
	PAIR	D. DUNNOCK	HS HOUSE SPARROW
	SINGING	J. JAY	MG MAGPIE
	AGGRESSIVE INTERACTION	JD JACKDAW	MH MOORHEN
	LINK	K. KESTREL	MP MEADOW PIPIT
	SAME INDIVIDUAL	KF KINGFISHER	PW PIED WAGTAIL
	DIFFERENT INDIVIDUAL	KT RED KITE	PH PHEASANT
	PROBABLY SAME INDIVIDUAL	LB LESSER BLACK-BACKED GULL	R. ROBIN
		RO ROOK	Y. YELLOWHAMMER

Description	Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date
PUBLISHED	A1						01/05/23

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Project Title		M5 Junction 10 Improvement	
Drawing Title		FIGURE 7-8D BREEDING BIRD SURVEY RESULTS APRIL 2021	
Drawing Number		GCCM5J10 - ATK - EBD ZZ - GS - GI - 000021	
Original Size: A3	Scale: 1:4,000	Project Ref: 5214106	Sheet: 8 of 10 Rev: P02

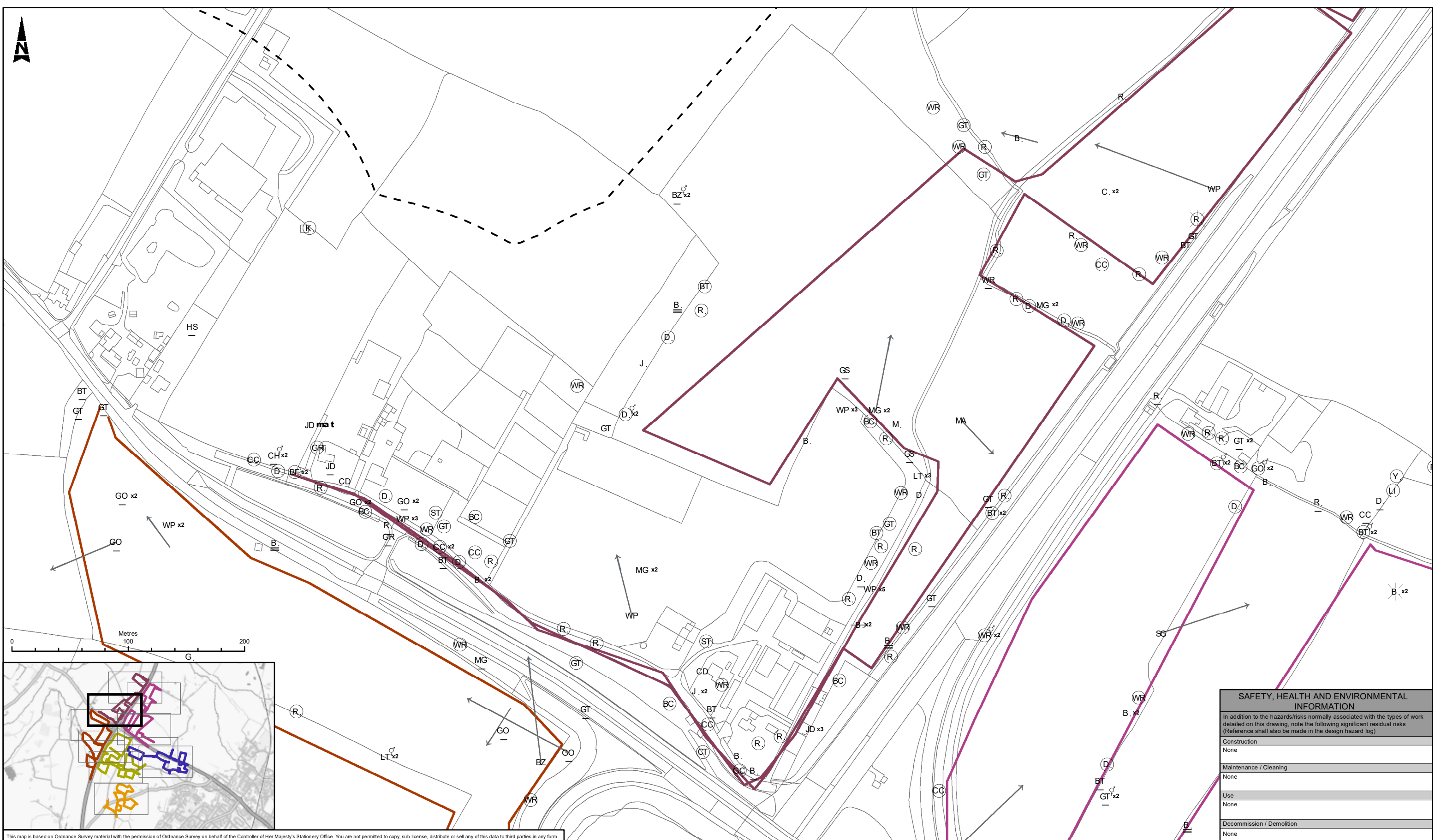


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Maintenance / Cleaning	None
Use	None
Decommission / Demolition	None

LEGEND		SPECIES (BTO CODES)	
250M STUDY AREA	FLYING	B. BLACKBIRD	CT COAL TIT
TRANSECT 5	PAIR	BC BLACKCAP	D. DUNNOCK
TRANSECT 6	SINGING	BF BULLFINCH	ET LITTLE EGRET
TRANSECT 8	AGGRESSIVE INTERACTION	BH BLACK-HEADED GULL	G. GREEN WOODPECKER
TRANSECT 9	LINK	GC GOLDCREST	GL GREY WAGTAIL
TRANSECT 10	SAME INDIVIDUAL	GO GOLDFINCH	GR GREENFINCH
BEHAVIOURS	DIFFERENT INDIVIDUAL	GT GREAT TIT	GS GREAT SPOTTED WOODPECKER
ALARM CALL	PROBABLY SAME INDIVIDUAL	H. GREY HERON	LI LINNET
CALLING		HT HERRING GULL	LT LONG-TAILED TIT
CARRYING NEST MATERIAL		HS HOUSE SPARROW	MA MALLARD
		J. JAY	MG MAGPIE
		JD JACKDAW	MH MOORHEN
		K. KESTREL	MP MEADOW PIPIT
		KF KINGFISHER	PW PIED WAGTAIL
		KT RED KITE	PH PHEASANT
		LB LESSER BLACK-BACKED GULL	R. ROBIN
		RO ROOK	RN RAVEN
			S. SKYLARK
			SD STOCK DOVE
			SG STARLING
			SH SPARROWHAWK
			SL SWALLOW
			ST SONG THRUSH
			WP WOOD PIGEON
			WR WREN
			WW WILLOW WARBLER
			Y. YELLOWHAMMER

Description		Drawing Suitability	Status	Project Title																										
PUBLISHED		PUBLISHED	A1	M5 Junction 10 Improvement																										
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Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date																								
PUBLISHED						01/05/23																								
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A3		5214106		9 of 10	P02																									
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Maintenance / Cleaning	None
Use	None
Decommission / Demolition	None

LEGEND		SPECIES (BTO CODES)	
[Symbol]	250M STUDY AREA	B.	BLACKBIRD
[Symbol]	TRANSECT 4	BC	BLACKCAP
[Symbol]	TRANSECT 5	BF	BULLFINCH
[Symbol]	TRANSECT 6	BH	BLACK-HEADED GULL
[Symbol]	TRANSECT 8	BT	BLUE TIT
[Symbol]	TRANSECT 9	BZ	BUZZARD
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[Symbol]	FLYING PAIR	CC	CHIFFCHAFF
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[Symbol]	SAME INDIVIDUAL	CT	COAL TIT
[Symbol]	DIFFERENT INDIVIDUAL	D.	DUNNOCK
[Symbol]	PROBABLY SAME INDIVIDUAL	ET	LITTLE EGRET
[Symbol]	ALARM CALL	G.	GREEN WOODPECKER
[Symbol]	CALLING	GC	GOLDCREST
[Symbol]	CARRYING NEST MATERIAL	GL	GREY WAGTAIL
[Symbol]		GO	GOLDFINCH
[Symbol]		GR	GREENFINCH
[Symbol]		GT	GREAT SPOTTED WOODPECKER
[Symbol]		GS	GREAT SPOTTED WOODPECKER
[Symbol]		GT	GREAT TIT
[Symbol]		H.	GREY HERON
[Symbol]		HG	HERRING GULL
[Symbol]		HS	HOUSE SPARROW
[Symbol]		J.	JAY
[Symbol]		JD	JACKDAW
[Symbol]		K.	KESTREL
[Symbol]		KF	KINGFISHER
[Symbol]		KT	RED KITE
[Symbol]		LB	LESSER BLACK-BACKED GULL
[Symbol]		LI	LINNET
[Symbol]		LT	LONG-TAILED TIT
[Symbol]		M.	MISTLE THRUSH
[Symbol]		MA	MALLARD
[Symbol]		MG	MAGPIE
[Symbol]		MH	MOORHEN
[Symbol]		MP	MEADOW PIPIT
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[Symbol]		PH	PHEASANT
[Symbol]		R.	ROBIN
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[Symbol]		RO	ROOK
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[Symbol]		WP	WOOD PIGEON
[Symbol]		WR	WREN
[Symbol]		WW	WILLOW WARBLER
[Symbol]		Y.	YELLOWHAMMER

Description	Status	Revision	Drawn	Checked	Reviewed	Authorised	Issue Date
PUBLISHED	A1	P02	SD	RD	CC	LJ	01/05/23

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Project Title	M5 Junction 10 Improvement
Drawing Title	FIGURE 7-8D BREEDING BIRD SURVEY RESULTS APRIL 2021
Drawing Number	Project: GCCM5J10 - ATK - EBD Type: ZZ - GS - GI - 000021
Original Size	A3
Scale	1:3,000
Project Ref	5214106
Sheet	10 of 10
Rev	P02

Appendix B. Survey dates, time, and weather

Date	Start/endtime	Temperature (°C)	Wind (Beaufort) ³⁰	Rain ³¹	Cloud (Octas) ³²
June 2019					
11/06/2019	06:45-11:00	7-9	4	0-1	8
12/06/2019	06:15-10:20	10-13	3	1	8
18/06/2019	05:50-10:15	11	1	0	0-1
19/06/2019	06:25-11:00	13-19	0-1	0	4-8
20/06/2019	05:50-10:30	19	2	0	0-2
21/06/2019	06:25-08:05	9	0	0	0
July 2019					
02/07/2019	05:45-07:50	10	2	0	0-1
03/07/2019	05:40-10:10	10-17	2	0	0-1
04/07/2019	05:45-10:35	8-25	1	0	0
05/07/2019	05:45-10:20	13	2	0	2
09/07/2019	05:50-10:30	15-17	2	0	8
10/07/2019	05:45-07:45	15-17	0	0	7
May 2020					
20/05/2020	06:30-10:00	11-19	2	0	8
21/05/2020	06:30-10:40	12-18	2	0	6
22/05/2020	06:30-10:10	14-15	3-4	0-1	4-7
27/05/2020	06:30-10:15	14-16	2	0	6
April 2021					
06/04/2021	07:30-11:30	3-7	2	0	1
07/04/2021	07:30-10:30	1-3	1-2	0	7
09/04/2021	07:30-10:45	1-5	2-3	0	2
13/04/2021	07:30-10:15	3-6	0	0	1
21/04/2021	07:20-10:20	9-11	2	0	4

³⁰ Wind speed score of 0-12 against Beaufort scale: 0 = calm, 2 = light breeze, 4 = Moderate breeze, 6 = strong breeze, 7 = High wind, 9 = Strong gale, 12 = Hurricane

³¹ Precipitation intensity on scale of 0-5: 0 = Dry, 1 = Light drizzle, 2 = Light rain, 3 = Moderate rain, 4 = Heavy rain, 5 = Torrential rain.

³² Cloud cover on a scale of 0-8: 0 = Sky completely clear, 4 = Sky half cloudy, 8 = Sky completely cloudy

Appendix C. Survey Results

Species	Conservation/legal status	Number per visit (zero if blank)				Peak Count
		June 2019	July 2019	May 2020	April 2021	
Blackbird (<i>Turdus merula</i>)		101	109	81	109	109
Blackcap (<i>Sylvia atricapilla</i>)		34	44	37	44	44
Black-headed gull (<i>Chroicocephalus ridibundus</i>)	Amber List BoCC5		8		8	8
Blue tit (<i>Cyanistes caeruleus</i>)		68	59	43	68	68
Bullfinch (<i>Pyrrhula pyrrhula</i>)	Amber List BoCC5, SPI				2	2
Buzzard (<i>Buteo buteo</i>)		18	16	6	18	18
Canada goose (<i>Branta canadensis</i>)				2	2	2
Carrion crow (<i>Corvus corone</i>)		46	33	16	46	46
Chaffinch (<i>Fringilla coelebs</i>)		26	16	24	26	26
Chiffchaff (<i>Phylloscopus collybita</i>)		15	19	23	26	26
Coal tit (<i>Periparus ater</i>)		3		3	3	3
Collared dove (<i>Streptopelia decaocto</i>)		17	7	7	17	17
Dunnock (<i>Prunella modularis</i>)	Amber List BoCC5, SPI	42	31	47	85	85
Feral pigeon (<i>Columba livia</i>)		2	20		20	20
Goldcrest (<i>Regulus regulus</i>)		1		5	5	5
Goldfinch (<i>Carduelis carduelis</i>)		89	55	51	89	89
Great spotted woodpecker (<i>Dendrocopos major</i>)		8	16	12	16	16
Great tit (<i>Parus major</i>)		32	32	38	54	54

Species	Conservation/legal status	Number per visit				Peak Count
		June 2019	July 2019	May 2020	April 2021	
Green woodpecker (<i>Picus viridis</i>)		4	12	2	12	12
Greenfinch (<i>Chloris chloris</i>)	Red List BoCC5	18	21	6	21	21
Grey heron (<i>Ardea cinerea</i>)		2	1	2	3	3
Grey wagtail (<i>Motacilla cinerea</i>)	Amber List BoCC5	3		4	7	7
Herring gull (<i>Larus argentatus</i>)	Red List BoCC5, SPI, RAM nf	10	4	18	32	32
Hobby (<i>Falco subbuteo</i>)	Schedule 1	1			1	1
House martin (<i>Delichon urbicum</i>)	Red List BoCC5	7	36	9	36	36
House sparrow (<i>Passer domesticus</i>)	Red List BoCC5, SPI	116	104	86	116	116
Jackdaw (<i>Coloeus monedula</i>)		32	41	41	49	49
Jay (<i>Garrulus glandarius</i>)		3		1	4	4
Kestrel (<i>Falco tinnunculus</i>)	Amber List BoCC5		3	3	3	3
Kingfisher (<i>Alcedo atthis</i>)	Schedule 1, Annex 1			1	3	3
Lesser black-backed gull (<i>Larus fuscus</i>)	Amber List BoCC5, RAM fc	57	27	26	57	57
Lesser whitethroat (<i>Curruca curruca</i>)		4	1	3	4	4
Linnet (<i>Linaria cannabina</i>)	Red List BoCC5, SPI, GBAP	4	6	3	7	7
Little egret (<i>Egretta garzetta</i>)	Annex 1				4	4
Little owl (<i>Athene noctua</i>)				1	1	1
Long-tailed tit (<i>Aegithalos caudatus</i>)		16	11	11	22	21
Magpie (<i>Pica pica</i>)		42	47	31	47	47
Mallard (<i>Anas platyrhynchos</i>)	Amber List BoCC5, SPA	1	1	10	16	16
Meadow pipit (<i>Anthus pratensis</i>)	Amber List BoCC5				46	46

Species	Conservation/legal status	Number per visit				Peak Count
		June 2019	July 2019	May 2020	April 2021	
Mistle thrush (<i>Turdus viscivorus</i>)	Red List BoCC5	1	4	2	4	4
Moorhen (<i>Gallinula chloropus</i>)	Amber List BoCC5		2	3	3	3
Pheasant (<i>Phasianus colchicus</i>)		6	5	4	6	6
Pied wagtail (<i>Motacilla alba</i>)		1	1	5	9	9
Raven (<i>Corvus corax</i>)				2	2	2
Red kite (<i>Milvus milvus</i>)	Schedule 1, Annex 1		1		1	1
Reed bunting (<i>Emberiza schoeniclus</i>)	Amber List BoCC5, SPI				1	1
Robin (<i>Erithacus rubecula</i>)		72	54	86	95	95
Rook (<i>Corvus frugilegus</i>)	Amber List BoCC5		2		14	14
Sedge warbler (<i>Acrocephalus schoenobaenus</i>)	Amber List BoCC5			1		1
Skylark (<i>Alauda arvensis</i>)	Red List BoCC5, SPI, GBAP	31	27	17	31	31
Song thrush (<i>Turdus philomelos</i>)	Amber List BoCC5, SPI, GBAP	15	12	11	15	15
Sparrowhawk (<i>Accipiter nisus</i>)	Amber List BoCC5	3	3		3	3
Starling (<i>Sturnus vulgaris</i>)	Red List BoCC5, SPI	50	29	32	50	50
Stock dove (<i>Columba oenas</i>)	Amber List BoCC5	47	24	14	47	47
Swallow (<i>Hirundo rustica</i>)		57	62	24	62	62
Swift (<i>Apus apus</i>)	Red List BoCC5	13	3		13	13
Common whitethroat (<i>Curruca communis</i>)	Amber List BoCC5	14	10	11	14	14
Willow warbler (<i>Phylloscopus trochilus</i>)	Amber List BoCC5				1	1
Wood pigeon (<i>Columba palumbus</i>)	Amber List BoCC5	138	221	104	387	387

Species	Conservation/legal status	Number per visit				Peak Count
		June 2019	July 2019	May 2020	April 2021	
Wren (<i>Troglodytes troglodytes</i>)	Amber List BoCC5	86	84	82	92	92
Yellow wagtail (<i>Motacilla flava</i>)	Red List BoCC5, SPI	10	9	4	10	10
Yellowhammer (<i>Emberiza citronella</i>)	Red List BoCC5, SPI	17	18	3	18	18

Key:

Annex I: species listed on Annex I of the Directive 2009/147/EC (the Birds Directive)

Red List BoCC5: species on the Red List of Birds of Conservation Concern 5

Amber List BoCC5: species on the Amber List of Birds of Conservation Concern 5

SPI: species of principal importance for the conservation of biodiversity in England

GBAP: Species listed on the Gloucestershire Biodiversity Action Plan

SPA: Severn Estuary SPA qualifying feature (wintering assemblage species)

Ram: Severn Estuary Ramsar site feature of interest

fc: species/populations identified subsequent to designation for possible future consideration under criterion 6

nf: noteworthy fauna

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