



NOTE - CONSTRUCTION ISSUE C03

- Amendments to the design at Church Hill (minor amendments to the boundary treatments to allow for the road reconfiguration, and gates altered at church car park);
- Amendments to the design at Hall Lane (minor amendments to the boundary treatments to allow for the road reconfiguration);
- Diversion of Hall Beck (alteration to watercourse alignment and design);
- Soft landscaping around drainage areas including Attenuation Ponds (refer to Point 6);
- Siting of interceptor channels and filter drains (soft landscaping around changes in Point 3);
- Variation in slope angle on certain sections (change in type of planting in certain areas due to underlying geotechnical feature placement associated with soil stability);
- Inclusion of reinstatement works for areas used as temporary construction compounds;
- Areas of woodland and scrub planting are to be reconfigured, following recent tree clearances; and
- No. 8 additional tree guards will be provided within livestock fields near Blubberhouses Hall to protect growing trees.

LANDSCAPE/ ECOLOGY STRATEGY

- Existing A59 to Paradise - to be returned to upland heath - No public access
- Remove vehicle restraint barrier
- Refer to Specification for treatment of existing highway. Using Hydraulic Breaker break up existing road surface on both sides of existing carriageway
- Add 150mm topsoil
- Sow with acid grassland/ upland heath.

Note.
All works within the NYCC Highway boundary to be the responsibility of the NYCC Highways Department from the end of the 5-Year Establishment Period.
Areas of land outwith the NYCC Highways boundary will revert to the Landowner for ongoing maintenance.
For details of planting proposals please refer to Planting Plans, Drg Ref No NYKGGD-WSP-ELS-SG_DR-LE-00011 to 00026.

LANDSCAPE/ ECOLOGY STRATEGY

- With the decommissioning of the existing A59 this linear feature will likely to be used for foraging and commuting bats, most notably from Bothams Farm access along existing watercourses and tree lines
- Bat foraging and commuting will occur across new woodland and scrub.

LANDSCAPE/ ECOLOGY STRATEGY

- Existing A59 from Paradise to Blubberhouses - To be returned to private access to Paradise/ Bothams Farm and as a Public Bridleway.
- Remove vehicle restraint barrier
- Refer to Specification for treatment of existing highway. Using Hydraulic Breaker break up existing road surface on southern side of existing carriageway
- Add 150mm topsoil to southern carriageway, sow with wildflower 20% grass 80% mix

STRUCTURE No.7
NEW CULVERT APPROX. CH5440
Culvert includes fish baffles, mammal ledges

STRUCTURE No.8
NEW CULVERT - APPROX. CH5525 TO 5640
Culvert includes fish baffles, mammal ledges and otter-proof fencing

STRUCTURE No.12
NEW CULVERT - APPROX. CH6095

- Existing A59 from Paradise to Blubberhouses - To be returned to private access to Paradise/ Bothams Farm and as a Public Bridleway
- Remove vehicle restraint barrier
- Refer to Specification for treatment of existing highway. Using Hydraulic Breaker break up existing road surface on southern side of existing carriageway
- Add 150mm topsoil to southern carriageway, sow with wildflower 20% grass 80% mix

DO NOT SCALE

Proposed Vegetation Types

- New Woodland
- Scrub
- G1 Highway Verge and Visibility Splay (Pollinator Mix-Mown to maintain height of 0.26)
- G2 Wildflower and Grass Meadow for Acid Soils
- G3 Upland Heathland/ Acid Grassland with added Heather (Allow for 5% of Heather seed to be sourced via local landowner, the remaining to be sourced commercially due to quantity required)
- G4 Wet Grassland (Alongside Hall Beck watercourse and within Attenuation Pond. Allow areas to recolonise naturally. No seed mix necessary in these areas)
- G5 Wildflower and Grass Meadow Mix for Neutral Soils (Pollinator Mix)
- G6 Woodland Wildflower and Grass Mix
- Rock Outcrops

Existing Features

- Retained Trees
- Retained Ancient Veteran Trees
- Retained Woodland
- Retained Hedge
- Retained Dry Stone Wall
- Retained Birdsmouth Fence
- Retained Timber Post & Wire and Gates

Proposed Features

- Stone Wall
- Timber Post & 4 Rail Fence
- Birdsmouth Fence
- Timber Post & Wire Fence
- Temporary Fencing
- Other Fencing
- Gate
- Maintenance Access Stile
- Retaining Wall
- Underground Culvert
- Watercourse
- Open Water
- Trees
- Riverine Stone and Gravel
- Timber Post and Rail Tree Guard

Public Access

- Public Rights of Way - Footpath
- Public Rights of Way - Bridleway
- Unsurfaced Unclassified Roads /Permissive Route
- Six Dales Way (National Trail)
- Restricted Byway

Ecological Elements
(Indicative Location Only)

- Wildlife Refuge
- Wildlife Hibernation Refuge
- Suitable Trees/Woodland for bat rookets, bat boxes and bird nest boxes
- Woodland Planting for Bats and Birds to encourage flight at height over carriageway

This design has been issued in advance of the full ground investigation results. It is possible that, following review of the ground investigation, changes may be required to the earthworks design with associated impacts on the design or layout of other elements of the project. This drawing is therefore subject to possible change following review of the ground investigation when this has been made available to WSP.

The design information shown on this drawing and any associated setting out information is based on British National Grid.

NO.	DATE	BY	DESCRIPTION	CHK	APP
C03	21/08/23	MM	FOR CONSTRUCTION	SF	AW
C02	03/04/23	JY	CONTRACTORS STORAGE AREAS REVISED	SF	AW
C01	01/02/23	MM	CONSTRUCTION ISSUE BASED ON HIGHWAY DESIGN VERSION JUNE 2021	SF	AW

DRAWING STATUS: **S3 - FOR REVIEW**

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DESIGNER: **wsp**

SITE PROJECT: **A59 KEX GILL DIVERSION**

TITLE: **Landscape Ecology Mitigation Monitoring and Management Plan (Sheet 9 of 10)**

SCALE @ A1:	CHECKED:	APPROVED:
1:1250	SF	AW

PROJECT NO:	DESIGNED:	DRAWN:	DATE:
70049554	SF	MM	AUGUST 2023

DRAWING NO: **NYKGGD-WSP-ELS-SG-DR-LE-00035** REV: **C03**

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