



HIGHWAYS & STREETSCENE
HIGHWAYS STRUCTURES

Civic Centre 1
High Street
Huddersfield
HD1 2NE

APPROVAL IN PRINCIPLE FOR DESIGN

OF

**Proposed Private Reinforced Concrete
Retaining Wall Supporting Public Footpath
Highway adjacent to Residential
Development**

Structure reference: #####
Date: 12th May 2026
Revision: 1
Status: Draft
Prepared by: S. Caulee
Checked by: D. Haigh

Information is available in large print, braille, audio tape, or PC disk on request
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Scheme title: Hinchliffe Mill, Water Street, Holmbridge
Structure title: Reinforced Concrete Retaining Wall

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DOCUMENT CONTROL

Structure title: Private reinforced concrete retaining wall supporting public footpath highway adjacent to a residential development.

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Document issue record

Issue	Status	Prepared	Date	Checked	Date	Approved	Date
01	Draft	S. Caulee	12.05.26	D. Haigh	12.05.26		

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PROJECT DETAILS

Name of project: Hinchliffe Mill, Water Street, Holmbridge.

Name of Bridge or Structure: Private reinforced concrete retaining wall adjacent to public footpath highway to NE elevation of residential development.

Structure reference no: #####

Summary: This AIP is for a private reinforced concrete retaining wall supporting a public footpath highway. The new retaining wall is required support the highway and will be an integral part of the adjacent residential development.

1. HIGHWAY DETAILS

1.1. Type of highway

1.1.1. Location and OS Map / Grid reference

Location: Unclassified

OS Map: SE 12907 07185

Grid Ref (X, Y): (412907 , 407185)

1.2. Permitted traffic speed

N/A

1.3. Existing restrictions

No vehicle access – public footpath only.

2. SITE DETAILS

2.1. Obstacles crossed

Not Applicable

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3. PROPOSED STRUCTURE

3.1. Description of structure and design working life

A reinforced concrete retaining wall to support the public footpath highway. The retaining wall will be supported on a reinforced concrete footing foundation. There is no vehicle access above the retaining wall: footpath access only

The proposed reinforced concrete retaining wall will be designed to have a design working life category 5 (120 years) in accordance with. CD 350 The design of highway structures- Table 7.1.

3.2. Structural type

Reinforced concrete retaining wall.

3.3. Foundation type

Reinforced concrete foundations.

3.4. Span arrangements

Adjacent to the public footpath highway, the proposed retaining wall will have a maximum retained height of 3.5m high above formation level. The length of wall to be built adjacent to, or in influencing distance of the highway, will be approximately 15.0m long.

3.5. Articulation arrangements

The reinforced concrete retaining wall will only be designed to support the public footpath highway. There is no vehicle access above the retaining wall.

The stability of the proposed retaining wall structure by its own self-weight does not rely upon the passive pressures from the earth in front of the retaining wall which could be excavated at a future date. Nor will the stability of the retaining wall rely upon the mass of the new residential superstructures being built.

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3.6. Classes and levels

The classes and levels stated below apply to both the whole structure as well as all individual structural components.

3.6.1. Consequence class

CC 2

3.6.2. Reliability class

RC 2

3.6.3. Inspection level

IL 2

3.7. Road restraint systems requirements

A 1.1m high (min) balustrade will be provided between the public footpath highway and the top of the retaining wall to provide a boundary demarcation between the highway and private land below.

3.8. Proposals for Water Management

A 100mm diameter perforated longitudinal drain will discharge any water accumulated behind the wall to a suitable outlet.

3.9. Proposed arrangements for future maintenance and inspection

3.9.1. Traffic management

No traffic management will be required to inspect the wall during future maintenance of the proposed retaining wall and its balustrade.

3.9.2. Arrangements for future maintenance and inspection of structure. Access arrangements to structure.

Access to the site will be provided directly from the highway.

3.10. Environment and sustainability

There are no environmental factors which need to be considered in the close proximity to the proposed retaining wall.

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3.11. Durability. Materials and finishes

Item	Material	Finish / Location
Retaining Wall & Base	Reinforced concrete Grade C40/45 in accordance with BS 8500-1 and BS EN 206-1.	The steel reinforcement will be detailed in accordance with BS8500-table A.5 to achieve a working life of at least 100 years, Exposure class XD3, with a minimum cover of 65mm.
Drainage	100mm diameter perforated longitudinal drain behind the heel of the retaining wall base will be encased in free draining material and taken to a suitable outlet together with 75mm PVC weep pipes at 2m centres.	The perforated land drain will be taken to a suitable outlet so that it does not discharge onto the adjacent highway.
Waterproofing	Bituthene 'blackjack' type waterproofing will be provided to the back, top and front face of toe of the retaining wall	Type A and C waterproofing will be provided to the wall with a bitumen coating, a cavity drained membrane to the rear of the wall with an internal cavity drained membrane to the internal face with outlets to a land drain.
Parapet	A 1.1m high balustrade (type TBC) will be provided between the top of the retaining wall and site boundary adjacent.	The external wall of the superstructure will be built directly off the retaining wall thus offering further protection against accidental fall from the higher level.
Backfill Material	Class 6N in compliance with specification for highway works.	Backfill to structure

3.12. Risks and hazards considered for design, execution, maintenance and demolition. Consultation with and/or agreement from Overseeing Organisation

For the coordination of the requirements under CDM Regulations 2015, the principal designers for the project have yet to be appointed.

Some factors to be considered will include, but not be limited to:

- Maintenance of vehicular/pedestrian access during construction

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- Working at height
- Stability of the adjacent land and existing structures
- Existing utility services including street lighting pole.
- Manual handling of heavy objects
- Pumping of concrete and lean fill mix: spillages onto the highway.
- Deliveries of materials to site from the highway (if applicable)
- Use of large heavy (and high) plant adjacent to the highway.

3.13. Acceptance of recommendations of the structures Options Report (reference date) to be used in the design and reasons for any proposed changes (including estimated cost of proposed structure). If an Options Report has not been prepared, state the reasons for the selected solution and reasons for rejecting alternatives (including comparative whole life costs with dates of estimates).

The type of retaining wall selected has been adopted to minimise the depth of excavation required into the land behind the retaining wall thus mitigating the risk of loss of support to the highway above.

The estimated cost of the proposed structure is excluding/including Statutory Undertakers costs.

£ 20,000 (twenty thousand pounds) excluding Statutory Undertakers costs.

3.14. Proposed arrangements for construction

3.14.1. Construction of structure

The site will be secured using Heras type fencing along the highway and above the section of wall to be built.

Excavations will be undertaken carefully from below the site, gradually reducing the levels as the works proceed.

The land at the back of the retaining structure will be graded back to a safe angle to facilitate access to build the new retaining wall. Sheet piling temporary supports may also be installed.

Upon completion of the main retaining wall structure, along with cavity drained membranes, the retaining wall will be waterproofed using a Bituthene 'blackjack' type product, the longitudinal drain will be installed, prior to backfilling with the proposed free draining hardcore material.

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3.14.2. Traffic management

There is no vehicle access along the public footpath therefore no traffic management will be needed.

3.14.3. Service diversions

Statutory Service plans to be obtained and presence of services to be confirmed before construction of the new retaining wall is started.

3.14.4. Interface with existing structures

Not applicable.

3.15. Deliberate damage and security

The site will be secured using Heras Type fencing to prevent access from the highway. The land above the retaining structure is public land with no vehicle access above the retaining wall.

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4. DESIGN CRITERIA

4.1. Actions

4.1.1. Permanent actions

All permanent actions as outlined in BS EN 1991-1-1:2002 and the associated National Annex.

4.1.2. Snow, Wind and Thermal actions

Snow loading not considered (NA to BS EN 1991-1-3 NA.4.1.1).

Thermal – movement joints will be specified where necessary.

Wind loading will not be considered, since the surcharge loads from the highway will far exceed any expected wind loads acting upon the proposed wall.

4.1.3. Actions relating to normal traffic under AW regulations and C&U regulations

Not Applicable

4.1.4. Actions relating to General Order traffic under STGO regulations

Not Applicable

4.1.5. Footway or footbridge variable actions

5.0 kN/m² to BS 8002:2015 Cl 4.4.1.5 (Table 7).

4.1.6. Actions relating to Special Order traffic, provision for exceptional abnormal indivisible loads including location of vehicle track on deck cross-section

Not Applicable.

4.1.7. Accidental actions

There is no vehicle access above the retaining wall.

The external wall of the superstructure will be built directly off the retaining wall thus offering further protection against accidental fall from the higher level.

An 1800mm high timber fence will be provided adjacent to the top of the retaining wall structure to provide demarcation to the public right of way and private gardens to plot 16 of the development.

4.1.8. Action during construction

Not Applicable. No construction traffic will be allowed above the retaining wall.

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The retaining wall is to be backfilled in accordance with the MCHW and surcharge loadings are to be derived based on the requirements of PD 6694-1:2011. Therefore, compaction pressures imposed on the wall during construction do not need to be considered. (PD 6694-1:2011 CL 7.3.3).

4.1.9. Any special action not covered above

None

4.2. Heavy or high load route requirements and arrangements being made to preserve the route, including any provision for future heavier loads or future widening

Not Applicable

4.3. Proposed minimum headroom provided

Not applicable.

4.4. Set out measures that will be incorporated into design to minimise maintenance

No special measures will be required to ensure the future maintenance of the retaining wall.

4.5. Authorities consulted and any special conditions required

Kirklees Council

4.6. Standards and documents listed in the Technical Approval Schedule

TAS dated November 2025 - See appendix A.

Additional relevant DoT standards published since the above edition of the TAS including amendments, are listed as follows:

None

4.7. Proposed departures from standards listed in 4.5

None

4.8. Proposed departures from standards concerning methods for dealing with aspects not covered by standards listed in 4.5

The proposed reinforced concrete retaining wall will be a private structure and as such its maintenance liability will solely rest with the adjoining land title holder/s.

4.9. Proposed safety critical fixings

None

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5. STRUCTURAL ANALYSIS

5.1. Methods of analysis proposed for superstructure, substructure and foundations

The method of analysis employed is to BS EN 1997-1:2004 incorporating Corrigendum dated February 2009 and UK National Annex incorporating Corrigendum No 1.

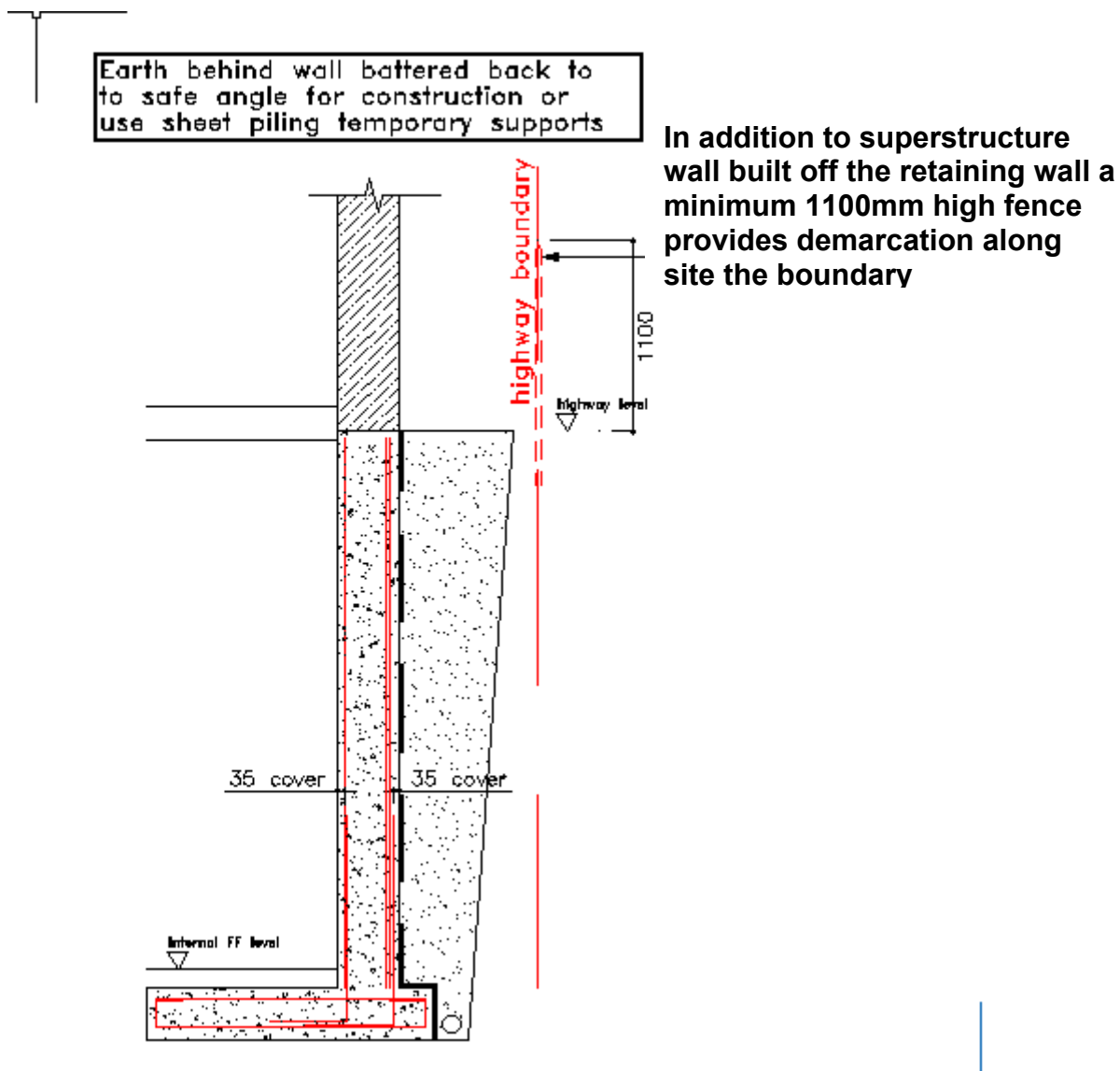
A 5.0 kN/m² surcharge has been applied at the top of the wall in accordance with Section 4.5.1.5 (Table 7) of BS 8002:2015 Code of Practice for Earth Retaining Structures

The design of the retaining wall will be in accordance with all applicable Eurocodes, adopting a design life of 120 years.

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5.2. Description and diagram of idealised structure to be used for analysis



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5.3. Assumptions intended for calculation of structural element stiffness.

Weight of moist backfill behind wall is 16.3 kN/m^3 .

Surcharge is taken at 5.0 kN/m^2 above the retaining wall.

Angle of internal friction of sub strata, $\Phi = 20^\circ$

Angle of internal friction of retained soil, $\Phi = 30^\circ$

Ground bearing pressure of the bedrock sub strata upon which the wall will be constructed = 100 kN/m^2 .

5.4. Proposed range of soil parameters to be used in the design of earth retaining elements.

The retaining will be designed using active pressures, assuming the wall is immobile and with NO passive pressure.

In the global stability conditions, the active pressure, K_a , has been used.

$$K_a = 0.301$$

$$K_o = 0.699$$

The ground forming the highway (i.e. passive pressure) in front of the retaining wall will not be considered in the stability checks of the wall, to allow for any unplanned excavations which may occur to the highway in the future.

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6. GEOTECHNICAL CONDITIONS

- 6.1. Acceptance of recommendations of the ground investigation report (references/dates) to be used in the design and reasons for any proposed changes.**

A phase 2 soil investigation has been undertaken, with additional trial pits being completed to confirm the presence of sandstone bedrock underlying the site.

- 6.2. Summary of design for highway structure in the ground investigation report**

Not applicable.

- 6.3. Differential settlement to be allowed for in the design of the structure**

The new retaining wall structure only covers a small area. It will be founded upon uniform sandstone bedrock ground conditions, therefore it is considered that differential settlement across the base slab will not occur.

- 6.4. If the ground investigation report is not yet available, state when the results are expected and list the sources of information used to justify the preliminary choice of foundations.**

Not applicable.

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7. CHECK

7.1. Proposed Category and Design Supervision Level

Category 1

7.2. If Category 3, name of proposed Independent Checker

Not Applicable

7.3. Erection proposals or temporary works for which Types S and P Proposals will be required, listing structural parts of the permanent structure affected with reasons.

The earth behind the retaining structure will be graded back to allow safe access during the construction phase. Temporary sheet piling supports will be provided if a safe angle of repose for the retained soil cannot be achieved.

Temporary 'Heras' type fencing will be used to protect the site boundaries during the construction program.

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8. DRAWINGS AND DOCUMENTS

8.1. List of drawings (including numbers) and documents accompanying the submission

8.1.1. Drawings (See appendix B)

Reference	Title
MDL-12063-RW-001	Retaining Wall Cross Sections (not yet issued)
2559-0405-P01	Retaining Wall Plan

8.1.2. Documents (See appendix C)

Reference	Title
MDL-12082-RW-001	Structural Calculations for Retaining Wall (not yet issued)
G777-CHG-00-XX-RP-S-0002	Ground Investigation Report

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9. THE ABOVE IS SUBMITTED FOR ACCEPTANCE

Design Team Leader

Signed



Name

S. Caulee

Engineering Qualifications

BSc. Civil Engineering

Name of Organisation

Marsh Design Limited

Date

12th May 2026

Check Team Leader

Signed



Name

David Haigh

Engineering Qualifications

B. Eng. (Hons) Civil Engineering

Name of Organisation

Marsh Design Limited

Date

12th May 2026

10. THE ABOVE IS REJECTED/AGREED SUBJECT TO THE AMENDMENTS AND CONDITIONS SHOWN BELOW

Signed

Name

Farhad Khatibi

Position held

Bridges & Structures Manager

Engineering Qualifications

BSc (Hons) Civil Eng, MSc

TAA

Kirklees Council

Date

For and on behalf of Kirklees Council

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APPENDIX A

LIST OF RELEVANT DESIGN DOCUMENTS

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Technical Approval Schedule (TAS)

Schedule of Documents Relating to Design of Highway Bridges and Structures

(All documents are taken to include revisions current as of November 2025)

Additional standards needed for a particular design should be added to the section at the bottom of the TAS.

The Designer is responsible for ensuring that the standards and references given in the schedule are correct and up to date. Tick all the documents used (✓)

Used (✓)	Eurocodes and associated UK National Annexes			
	Eurocode part	Title	Amendment / Corrigenda	Notes
	Eurocode 0	Basis of structural design		
✓	BS EN 1990:2002 +A1:2005	Eurocode 0: Basis of structural design	+A1:2005 Incorporating corrigenda December 2008 and April 2010	See CD 350 section 5 for additional guidance. This document is to be used until 30 March 2028. After which it will be superseded by BS EN 1990:2023
✓	NA to BS EN 1990:2002 + A1:2005	UK National Annex to Eurocode 0 Basis of structural design	National Amendment No.1	See CD 350 section 5 for additional guidance.
	Eurocode 1	Actions on structures		
✓	BS EN 1991-1-1:2002	Eurocode 1: Actions on structures. General Actions. Densities, self-weight, imposed load for buildings	Corrigenda December 2004 and March 2009	This document is to be used until 30 March 2028. After which it will be superseded by BS EN 1991-1-1:2025

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Used (✓)		Eurocodes and associated UK National Annexes		
	Eurocode part	Title	Amendment / Corrigenda	Notes
✓	NA to BS EN 1991-1-1:2002	UK National Annex to Eurocode 1: Actions on structures. General Actions. Densities, self-weight, imposed load for buildings	Corrigenda July 2019	
	BS EN 1991-1-3:2003 +A1:2015	Eurocode 1: Actions on structures. General Actions. Snow loads	+A1:2015 Incorporating corrigenda December 2004 and March 2009	This document is to be used until 30 March 2028. After which it will be superseded by BS EN 1991-1-3:2025
	NA + A2:18 to BS EN 1991-1-3:2003+A1:2015	UK National Annex to Eurocode 1: Actions on structures. General Actions. Snow loads	+A2:2018 Incorporating corrigenda June 2007, December 2015 and October 2018	
	BS EN 1991-1-4:2005 +A1:2010	Eurocode 1: Actions on structures. General Actions. Wind actions	+A1:2010 Corrigenda July 2009 and January 2010	
	NA to BS EN 1991-1-4:2005 + A1:2010	UK National Annex to Eurocode 1: Actions on structures. General Actions. Wind actions	National Amendment No.1	
	BS EN 1991-1-5:2003	Eurocode 1: Actions on structures. General Actions. Thermal actions	Corrigenda December 2004 and March 2009	This document is to be used until 30 March 2028. After which it will be superseded by BS EN 1991-1-5:2025
	NA to BS EN 1991-1-5:2003	UK National Annex to Eurocode 1: Actions on structures. General Actions. Thermal actions	-	
✓	BS EN 1991-1-6:2005	Eurocode 1: Actions on structures. General Actions. Actions during execution	Corrigenda July 2008, November 2012 and February 2013	

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Used (✓)	Eurocodes and associated UK National Annexes			
	Eurocode part	Title	Amendment / Corrigenda	Notes
	NA to BS EN 1991-1-6:2005	UK National Annex to Eurocode 1: Actions on structures. General Actions. Actions during execution	-	
✓	BS EN 1991-1-7:2006 +A1:2014	Eurocode 1: Actions on structures. General Actions. Accidental actions	+A1: 2014 Corrigendum February 2010	This document is to be used until 30 March 2028. After which it will be superseded by BS EN 1991-1-7:2025
✓	NA+A1 to BS EN 1991-1-7:2006+A1:2014	UK National Annex to Eurocode 1: Actions on structures. Part 1-7 : Accidental actions	+A1:2014 Incorporating corrigenda August 2014 and November 2015	See CD 350 for additional guidance.
	BS EN 1991-2:2003	Eurocode 1: Actions on structures. Traffic loads on bridges	Corrigenda December 2004 and February 2010	See CD 350 section 5 for additional guidance. This document is to be used until 30 March 2028. After which it will be superseded by BS EN 1991-2:2023
	NA +A1:2020 to BS EN 1991-2:2003	UK National Annex to Eurocode 1: Actions on structures. Traffic loads on bridges	Corrigendum No.1 Amendment June 2020	See CD 350 section 5 for additional guidance.
	Eurocode 2	Design of concrete structures		
✓	BS EN 1992-1-1:2004 + A1:2014	Eurocode 2: Design of concrete structures– Part 1-1: General rules and rules for buildings	Incorporating corrigendum January 2008, November 2010 and January 2014	This document is to be used until 30 March 2028. After which it will be superseded by BS EN 1992-1-1:2023

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Used (✓)	Eurocodes and associated UK National Annexes			
	Eurocode part	Title	Amendment / Corrigenda	Notes
	NA + A2:2014 to BS EN 1992-1-1:2004 + A1:2014	UK National Annex to Eurocode 2: Design of concrete structures – Part 1-1: General rules and rules for buildings		
	BS EN 1992-2:2005	Eurocode 2: Design of concrete structures – Part 2: Concrete bridges – Design and detailing rules	Corrigendum July 2008	This document is to be used until 30 March 2028. After which it will be superseded by BS EN 1992-1-1:2023
	NA to BS EN 1992-2:2005	UK National Annex to Eurocode 2: Design of concrete structure – Part 2: Concrete bridges – Design and detailing rules	-	
	BS EN 1992-3:2006	Eurocode 2: Design of concrete structures – Part 3: Liquid retaining and containment structures		This document is to be used until 30 March 2028. After which it will be superseded by BS EN 1992-1-1:2023
	NA to BS EN 1992-3:2006	UK National Annex to Eurocode 2: Design of concrete structures – Part 3: Liquid retaining and containment structures	-	
	BS EN 1992-4:2018	Eurocode 2: Design of concrete structures – Part 4: Design of fastenings for use in concrete		
	NA to BS EN 1992-4:2018	UK National Annex to Eurocode 2: Design of concrete structures – Part 4: Design of fastenings for use in concrete		
	Eurocode 3	Design of steel structures		

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Used (✓)	Eurocodes and associated UK National Annexes			
	Eurocode part	Title	Amendment / Corrigenda	Notes
	BS EN 1993-1-1:2005 + A1:2014	Eurocode 3: Design of steel structures – Part 1-1 General rules and rules for buildings	Corrigenda February 2006 and April 2009	This document is to be used until 30 March 2028. After which it will be superseded by BS EN 1993-1-1:2022
	NA + A1:2014 to BS EN 1993-1-1:2005 + A1:2014	UK National Annex to Eurocode 3: Design of steel structures – Part 1-1 General rules and rules for buildings	-	
	BS EN 1993-1-3:2006	Eurocode 3: Design of steel structures – Part 1-3 General rules – Supplementary rules for cold-formed members and sheeting	Corrigendum November 2009	This document is to be used until 30 March 2028. After which it will be superseded by BS EN 1993-1-3:2024
	NA to BS EN 1993-1-3:2006	UK National Annex to Eurocode 3: Design of steel structures – Part 1-3 Supplementary rules for cold-formed members and sheeting	-	
	BS EN 1993-1-4:2006 + A2:2020	Eurocode 3: Design of steel structures – Part 1-4 General rules – Supplementary rules for stainless steels	+ A1:2015 Amendment No. 1 + A2:2020 Amendment No. 2	Supersedes BS EN 1993-1-4:2006 + A1:2015
	NA+A1:15 to BS EN 1993-1-4:2006+A1:2015	UK National Annex to Eurocode 3: Design of steel structures – Part 1-4 Supplementary rules for stainless steels	+ A1:2015 Amendment No. 1	

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Used (✓) Eurocodes and associated UK National Annexes				
	Eurocode part	Title	Amendment / Corrigenda	Notes
	BS EN 1993-1-5:2006+A2:2019	Eurocode 3: Design of steel structures – Part 1-5 Plated structural elements	Corrigendum April 2009, +A1:2017 Amendment No. 2, +A2:2019	This document is to be used until 30 March 2028. After which it will be superseded by BS EN 1993-1-5:2024
	NA+A1:2016 to BS EN 1993-1-5:2006	UK National Annex to Eurocode 3: Design of steel structures – Part 1-5 Plated structural elements	+ A1:2016 Amendment No. 1	This document is to be used until 30 March 2028. After which it will be superseded by NA to BS EN 1993-1-5:2024
	BS EN 1993-1-6:2007+A1:2017	Eurocode 3: Design of steel structures – Part 1-6 Strength and stability of shell structures	+ A1:2017 Amendment No. 1	
	BS EN 1993-1-7:2007	Eurocode 3: Design of steel structures – Part 1-7 Plated structures subject to out of plane loading	Corrigendum April 2009	This document is to be used until 30 March 2028. After which it will be superseded by BS EN 1993-1-7:2025
	BS EN 1993-1-8:2005	Eurocode 3: Design of steel structures – Part 1-8 Design of joints	Corrigenda December 2005, September 2006, July 2009 and August 2010	This document is to be used until 30 March 2028. After which it will be superseded by BS EN 1993-1-8:2024
	NA to BS EN 1993-1-8:2005	UK National Annex to Eurocode 3: Design of steel structures – Part 1-8 Design of joints	-	
	BS EN 1993-1-9:2005	Eurocode 3: Design of steel structures – Part 1-9 Fatigue	Corrigenda December 2005, September 2006 and April 2009	
	NA to BS EN 1993-1-9:2005	UK National Annex to Eurocode 3: Design of steel structures – Part 1-9 Fatigue	-	

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Used (✓)	Eurocodes and associated UK National Annexes			
	Eurocode part	Title	Amendment / Corrigenda	Notes
	BS EN 1993-1-10:2005	Eurocode 3: Design of steel structures – Part 1-10 Material toughness and through-thickness properties	Corrigenda December 2005, September 2006 and March 2009	
	NA to BS EN 1993-1-10:2005	UK National Annex to Eurocode 3: Design of steel structures – Part 1-10 Material toughness and through thickness properties	-	
	BS EN 1993-1-11:2006	Eurocode 3: Design of steel structures – Part 1-11 Design of structures with tension components	Corrigendum April 2009	
	NA to BS EN 1993-1-11:2006	UK National Annex to Eurocode 3: Design of steel structures – Part 1-11 Design of structures with tension components	-	
	BS EN 1993-1-12:2007	Eurocode 3: Design of steel structures – Part 1-12 Additional rules for the extension of EN 1993 up to steel grades S 700	Corrigendum April 2009	
	NA to BS EN 1993-1-12:2007	UK National Annex to Eurocode 3: Design of steel structures – Part 1-12 Additional rules for the extension of EN 1993 up to steel grades S 700	-	
	BS EN 1993-2:2006	Eurocode 3: Design of steel structures – Part 2 Steel bridges	Corrigendum July 2009	
	NA + A1:2012 to BS EN 1993-2:2006	UK National Annex to Eurocode 3: Design of steel structures – Part 2 Steel bridges	+ A1:2012	

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Used (✓) Eurocodes and associated UK National Annexes				
	Eurocode part	Title	Amendment / Corrigenda	Notes
	BS EN 1993-5:2007	Eurocode 3: Design of steel structures – Part 5 Piling	Corrigendum May 2009	This document is to be used until 30 March 2028. After which it will be superseded by BS EN 1993-5:2025
	NA + A1:2012 to BS EN 1993-5:2007	UK National Annex to Eurocode 3: Design of steel structures – Part 5 Piling	+ A1:2012	
	Eurocode 4	Design of composite steel and concrete structures		
	BS EN 1994-1-1:2004	Eurocode 4: Design of composite steel and concrete structures – Part 1-1 General rules and rules for buildings	Corrigendum April 2009	
	NA to BS EN 1994-1-1:2004	UK National Annex to Eurocode 4: Design of composite steel and concrete structures – Part 1-1 General rules and rules for buildings	-	
	BS EN 1994-2:2005	Eurocode 4: Design of composite steel and concrete structures – Part 2 General rules and rules for bridges	Corrigendum July 2008	
	NA to BS EN 1994-2:2005	UK National Annex to Eurocode 4: Design of composite steel and concrete structures – Part 2 General rules and rules for bridges	-	
	Eurocode 5	Design of timber structures		

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Used (✓)	Eurocodes and associated UK National Annexes			
	Eurocode part	Title	Amendment / Corrigenda	Notes
	BS EN 1995-1-1:2004 + A2:2014	Eurocode 5: Design of timber structures – Part 1-1 General – common rules and rules for buildings	+ A2:2014 Incorporating corrigendum June 2006	This document is to be used until 30 March 2028. After which it will be superseded by BS EN 1995-1-1:2025
	NA to BS EN 1995-1-1:2004 + A2:2014	UK National Annex to Eurocode 5: Design of timber structures – Part 1-1 General – common rules and rules for buildings	+ A2:2014	
	BS EN 1995-2:2004	Eurocode 5: Design of timber structures – Part 2 Bridges	-	
	NA to BS EN 1995-2:2004	UK National Annex to Eurocode 5: Design of timber structures – Part 2 Bridges	-	
	Eurocode 6	Design of masonry structures		
✓	BS EN 1996-1-1:2005+A1:2012	Eurocode 6: Design of masonry structures – Part 1-1 General rules for reinforced and unreinforced masonry structures	+A1:2012 Corrigenda February 2006 and July 2009	This document is to be used until 30 March 2028. After which it will be superseded by BS EN 1996-1-1:2022
✓	NA to BS EN 1996-1-1:2005 +A1:2012	UK National Annex to Eurocode 6: Design of masonry structures – Part 1-1 General rules for reinforced and unreinforced masonry structures	+A1:2012	This document is to be used until 30 March 2028. After which it will be superseded by NA to BS EN 1996-1-1:2022
✓	BS EN 1996-2:2006	Eurocode 6: Design of masonry structures – Part 2 Design considerations, selection of materials and execution of masonry	Corrigendum September 2009	This document is to be used until 30 March 2028. After which it will be superseded by BS EN 1996-2:2024

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Used (✓) Eurocodes and associated UK National Annexes				
	Eurocode part	Title	Amendment / Corrigenda	Notes
	NA to BS EN 1996-2:2006	UK National Annex to Eurocode 6: Design of masonry structures – Part 2 Design considerations, selection of materials and execution of masonry	Corrigendum No.1	
	BS EN 1996-3:2006	Eurocode 6: Design of masonry structures – Part 3 Simplified calculation methods for unreinforced masonry structures	Corrigendum October 2009	This document is to be used until 30 March 2028. After which it will be superseded by BS EN 1996-3:2023
	NA +A1:2014 to BS EN 1996-3:2006	UK National Annex to Eurocode 6: Design of masonry structures – Part 3 Simplified calculation methods for unreinforced masonry structures	+A1:2014	
	Eurocode 7	Geotechnical design		
✓	BS EN 1997-1:2004+A1:2013	Eurocode 7: Geotechnical design – Part 1 General rules	+A1:2013 Corrigendum February 2009	This document is to be used until 30 March 2028. After which it will be superseded by BS EN 1990:2023, BS EN 1997-1:2024, BS EN 1997-3:2025
	NA+A2:2022 to BS EN 1997-1:2004+A1:2013	UK National Annex to Eurocode 7: Geotechnical design – Part 1 General rules	+A1:2013 Incorporating Corrigendum No.1, Amendment 1 – July 2014 and Amendment 2 - 2022	Supersedes NA+A1:2014 to BS EN 1997-1:2004+A1:2013

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Used (✓) Eurocodes and associated UK National Annexes				
	Eurocode part	Title	Amendment / Corrigenda	Notes
	BS EN 1997-2:2007	Eurocode 7: Geotechnical design – Part 2 Ground investigation and testing	Corrigendum June 2010	This document is to be used until 30 March 2028. After which it will be superseded by BS EN 1997-3:2025, BS EN 1997-2:2024
	NA to BS EN 1997-2:2007	UK National Annex to Eurocode 7: Geotechnical design – Part 2 Ground investigation and testing	-	This document is to be used until 30 March 2028. After which it will be superseded by NA to BS EN 1997-2:2024
	Eurocode 8	Design of structures for earthquake resistance		
	BS EN 1998-1:2004 + A1:2013	Eurocode 8: Design of structures for earthquake resistance – Part 1 General rules, seismic actions and rules for buildings	Corrigendum June 2009, January 2011 and March 2013	This document is to be used until 30 March 2028. After which it will be superseded by BS EN 1998-1-1:2024
	NA to BS EN 1998-1:2004	UK National Annex to Eurocode 8: Design of structures for earthquake resistance – Part 1 General rules, seismic actions and rules for buildings	-	
	BS EN 1998-2:2005+A2:2011	Eurocode 8: Design of structures for earthquake resistance – Part 2 Bridges	Corrigenda February 2010 and February 2012	This document is to be used until 30 March 2028. After which it will be superseded by BS EN 1998-2:2025
	NA to BS EN 1998-2:2005	UK National Annex to Eurocode 8: Design of structures for earthquake resistance – Part 2 Bridges	-	

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Used (✓)	Eurocodes and associated UK National Annexes			
	Eurocode part	Title	Amendment / Corrigenda	Notes
	BS EN 1998-5:2004	Eurocode 8: Design of structures for earthquake resistance – Part 5 Foundations, retaining structures and geotechnical aspects	-	This document is to be used until 30 March 2028. After which it will be superseded by BS EN 1998-5:2024
	NA to BS EN 1998-5:2004	UK National Annex to Eurocode 8: Design of structures for earthquake resistance – Part 5 Foundations, retaining structures and geotechnical aspects	-	
	Eurocode 9	Design of aluminium structures		
	BS EN 1999-1-1:2007 + A2:2013	Eurocode 9: Design of aluminium structures– Part 1-1 General structural rules	+ A2:2013 Incorporating corrigendum March 2014	This document is to be used until 30 March 2028. After which it will be superseded by BS EN 1999-1-1:2023
	NA to BS EN 1999-1-1:2007 + A1:2009	UK National Annex to Eurocode 9: Design of aluminium structures – Part 1-1 General structural rules	National Amendment No.1 Corrigendum No.1	
	BS EN 1999-1-3:2007 + A1:2011	Eurocode 9: Design of aluminium structures – Part 1-3 Structures susceptible to fatigue	+ A1:2011	This document is to be used until 30 March 2028. After which it will be superseded by BS EN 1999-1-3:2023
	NA to BS EN 1999-1-3:2007 + A1:2011	UK National Annex to Eurocode 9: Design of aluminium structures – Part 1-3 Structures susceptible to fatigue	+ A1:2011	This document is to be used until 30 March 2028. After which it will be superseded by NA to BS EN 1999-1-3:2023

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Used (✓)	Eurocodes and associated UK National Annexes			
	Eurocode part	Title	Amendment / Corrigenda	Notes
	BS EN 1999-1-4:2007 +A1:2011	Eurocode 9: Design of aluminium structures – Part 1-4 Cold formed structural sheeting	+ A1:2011 Corrigendum November 2009	This document is to be used until 30 March 2028. After which it will be superseded by BS EN 1999-1-4:2023
	NA to BS EN 1999-1-4:2007	UK National Annex to Eurocode 9: Design of aluminium structures – Part 1-4 Cold formed structural sheeting	-	This document is to be used until 30 March 2028. After which it will be superseded by NA to BS EN 1999-1-4:2023

Used (✓)	Bsi Published Documents		
	<i>For guidance only unless clauses are otherwise specified in CD 350 Appendix A.</i>		
	Published Document reference	Title	Notes
	PD 6687-1:2020	Background paper to the UK National Annexes to BS EN 1992-1 and BS EN 1992-3	Supersedes PD 6687-1:2010 See CD 350 clauses 2.7, 4.1, 4.2 and Appendix A for additional guidance. Clause 2.7 in CD 350 refers to clause 4.5 in PD 6687-1 Clause 4.2 in CD 350 refers to clause 4.21.4 in PD 6687-1
✓	PD 6687-2:2008	Recommendations for the design of structures to BS EN 1992-2:2005	See CD 350 clauses 4.1, 4.2 and Appendix A for additional guidance.
	PD 6688-1-1:2011	Recommendations for the design of structures to BS EN 1991-1-1	See CD 350 Appendix A for additional guidance.
	PD 6688-1-4:2015	Background paper to the UK National Annex to BS EN 1991-1-4	See CD 350 Appendix A for additional guidance.
	PD 6688-1-7:2009 +A1:2014	Recommendations for the design of structures to BS EN 1991-1-7	See CD 350 clause 2.8 and Appendix B for additional guidance.
✓	PD 6688-2:2011	Recommendations for the design of structures to BS EN 1991-2	See CD 350 Appendix A for additional guidance.

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Used (✓)	Bsi Published Documents <i>For guidance only unless clauses are otherwise specified in CD 350 Appendix A.</i>		
	Published Document reference	Title	Notes
✓	PD 6694-1:2011 + A1:2020	Recommendations for the design of structures subject to traffic loading to BS EN 1997-1	Incorporating Corrigendum 1 Jan 2022 & Corrigendum 2 Jul 2023 See CD 350 Appendix A for additional guidance.
	PD 6695-1-9:2008	Recommendations for the design of structures to BS EN 1993-1-9	See CD 350 Appendix A for additional guidance.
	PD 6695-1-10:2009	Recommendations for the design of structures to BS EN 1993-1-10	See CD 350 Appendix A for additional guidance.
	PD 6695-2:2008 + A1:2012 Incorporating Corrigendum No.1	Recommendation for the design of bridges to BS EN 1993	See CD 350 Appendix A for additional guidance.
	PD 6696-2:2007 + A1:2012	Background paper to BS EN 1994-2 and the UK National Annex to BS EN 1994-2	See CD 350 Appendix A for additional guidance.
	PD 6698:2009	Recommendations for the design of structures for earthquake resistance to BS EN 1998	See CD 350 section 5 for additional guidance.
	PD 6702-1:2009+A1:2019	Structural use of aluminium. Recommendations for the design of aluminium structures to BS EN 1999	Amended 31 May 2019
	PD 6703:2009	Structural bearings – Guidance on the use of structural bearings	
	PD 6705-2:2020	Structural use of steel and aluminium. Execution of steel bridges conforming to BS EN 1090-2. Guide	Replaces PD 6705-2:2010 + A1:2013
	PD 6705-3:2009	Recommendations on the execution of aluminium structures to BS EN 1090-3	

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Used (✓) Execution Standards referenced in British Standards or Eurocodes			
	Execution Standard reference	Title	Notes
	BS EN 1090-1:2009+A1:2011	Execution of steel structures and aluminium structures - Part 1: Requirements for conformity assessment of structural components	
	BS EN 1090-2:2018+A1:2024	Execution of steel structures and aluminium structures. Technical requirements for the execution of steel structures	Supersedes BS EN 1090-2:2018
	BS EN 1090-3:2019	Execution of steel structures and aluminium structures – Part 3: Technical requirements for aluminium structures	Supersedes BS EN 1090-3:2008
✓	BS EN 13670:2009 Incorporating corrigenda October 2015 and November 2015	Execution of concrete structures	

Used (✓) Product Standards referenced in British Standards or Eurocodes			
	Product Standard reference	Title	Notes
✓	BS EN 206:2013+A2:2021	Concrete – Specification, performance, production and conformity	Supersedes BS EN 206:2013+A1:2016
	BS EN 1317-1:2010	Road Restraint Systems – Part 1 – Terminology and general criteria for test methods	
	BS EN 1317-2:2010	Road Restraint Systems – Part 2 – Performance classes, impact test acceptance criteria and test methods for safety barriers.	
	BS EN 1317-3:2010	Road Restraint Systems – Part 3 – Performance classes, impact test acceptance criteria and test methods for crash cushions.	
	DD ENV 1317-4:2002	Road Restraint Systems – Part 4 – Performance classes, impact test acceptance criteria and test methods for terminals and transitions of safety barriers.	<i>Draft BS EN 1317-4 for public comment published in June 2012</i>

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Used (✓)	Product Standards referenced in British Standards or Eurocodes		
	Product Standard reference	Title	Notes
	BS EN 1317-5:2007+A2:2012	Road Restraint Systems – Part 5 - Product requirements and evaluation of conformity for vehicle restraint systems	Incorporating corrigendum August 2012 <i>Draft prEN 1317-5 for public comment published in December 2013</i>
	PD CEN/TR 16949:2016	Road Restraint System – Pedestrian restraint system - Pedestrian parapets	<i>Bsi Published Document / CEN Technical Report published in July 2016</i> <i>(This document should not be used. The requirements of BS 7818:1995 apply.)</i>
	PD CEN/TS 1317 7:2023	Road restraint systems - Part 7: Performance characterisation and test methods for terminals of safety barriers	<i>Replaces Draft prEN 1317-7</i> <i>(All terminals should be in accordance with this document or ENV1317-4.)</i>
	PD CEN/TS 17342:2019	Road restraint systems - Motorcycle road restraint systems which reduce the impact severity of motorcyclist collisions with safety barriers	<i>Replaces PD CEN/TS 1317-8:2012</i> <i>(This document should not be used.)</i>
	PD CEN/TR 17081:2018	Design of fastenings for use in concrete – Plastic design of fastenings with headed and post-installed fasteners	
	BS EN 1337-1:2000	Structural bearings – Part 1: General Design Rules	
	BS EN 1337-2:2004	Structural bearings – Part 2: Sliding elements	
	BS EN 1337-3:2005	Structural bearings – Part 3: Elastomeric bearings	
	BS EN 1337-4:2004	Structural bearings – Part 4: Roller bearings	Corrigendum No.1 March 2007
	BS EN 1337-5:2005	Structural bearings – Part 5: Pot bearings	
	BS EN 1337-6:2004	Structural bearings – Part 6: Rocker bearings	
	BS EN 1337-7:2004	Structural bearings – Part 7: Spherical and cylindrical PTFE bearings	
	BS EN 1337-8:2007	Structural bearings – Part 8: Guide bearings and restraint bearings	
	BS EN 1337-9:1998	Structural bearings – Part 9: Protection	
	BS EN 1337-10:2003	Structural bearings – Part 10: Inspection and maintenance	Corrigendum No.1 November 2003

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Used (✓)	Product Standards referenced in British Standards or Eurocodes		
	Product Standard reference	Title	Notes
	BS EN 1337-11:1998	Structural bearings – Part 11: Transport, Storage and Installation.	
	BS EN 10025-1:2004	Hot rolled products of structural steels Part 1: General technical delivery conditions.	
	BS EN 10025-2:2019	Hot rolled products of structural steels Part 2: Technical delivery conditions for non-alloy structural steels.	Supersedes BS EN 10025-1:2004
	BS EN 10025-3:2019	Hot rolled products of structural steels Part 3: Technical delivery conditions for normalized/normalized rolled weldable fine grain structural steels.	Supersedes BS EN 10025-3:2004
	BS EN 10025-4:2019+A1:2022	Hot rolled products of structural steels Part 4: Technical delivery conditions for thermomechanical rolled weldable fine grain structural steels.	Supersedes BS EN 10025-4:2019
	BS EN 10025-5:2019	Hot rolled products of structural steels – Part 5: Technical delivery conditions for structural steels with improved atmospheric corrosion resistance	Supersedes BS EN 10025-5:2004
	BS EN 10025-6:2019+A1:2022	Hot rolled products of structural steels – Part 6: Technical delivery conditions for flat products of high yield strength structural steels in the quenched and tempered condition.	Supersedes BS EN 10025-6:2019
	BS EN 10080:2005	Steel for the reinforcement of concrete – Weldable reinforcing steel - General	
	BS EN 10210-1:2006	Hot finished structural hollow sections of non-alloy and fine grain steels – Part 1: Technical delivery conditions	
	BS EN 10210-2:2019	Hot finished structural hollow sections – Part 2: Tolerances, dimensions and sectional properties	Supersedes BS EN 10210-2:2006
	BS EN 10248-1:2023	Hot rolled sheet piling of non alloy steels. Technical delivery conditions	Supersedes BS EN 10248-1:1996

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Used (✓)	Product Standards referenced in British Standards or Eurocodes		
	Product Standard reference	Title	Notes
	BS EN 10248-2:2024	Hot rolled sheet piling of non alloy steels. Tolerances on shape and dimensions	Supersedes BS EN 10248-2:1996
	BS EN 12063:2024	Execution of special geotechnical work. Sheet pile walls.	Supersedes BS EN 12063:1999
	BS EN 13369:2023	Common rules for precast concrete products	Supersedes BS EN 13369:2018
	BS EN 14388:2005	Road traffic noise reducing devices	There is a 2015 version, however the 2015 version is not harmonised.
	BS EN 15050:2007 + A1:2012	Precast concrete products – Bridge elements	See CD 350 clause 2.10.1 for additional guidance.
	BS EN 15258:2008	Precast concrete products - Retaining wall elements	

Used (✓)	British Standards		
	British Standard reference	Title	Notes
✓	BS 4449:2005+A3:2016	Steel for the reinforcement of concrete	No longer covers plain round bar. (See BS4482 up to 12mm dia, see BS EN 10025-1 for larger sizes and dowels. See BS EN 13877-3 for dowel bars in concrete pavements.)
	BS 5896:2012	Specification for high tensile steel wire and strand for the prestressing of concrete	

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Used (✓)	British Standards		
	BS 7818:1995	Specification for pedestrian restraint systems in metal	Incorporating Corrigendum No.1 May 2004 and Corrigendum No.2 September 2006 Currently the requirements of BS 7818:1995 are to be used instead of PD CEN/TR 16949:2016
✓	BS 8002:2015	Code of practice for earth retaining structures	
✓	BS 8004:2015 +A1 2020	Code of practice for foundations	Amendment +A1:2020
	BS 8006-1:2010+A1:2016	Code of practice for strengthened/reinforced soils and other fills	
	BS 8500-1:2023	Concrete – Complementary British Standard to BS EN 206: Method of specifying and guidance for the specifier.	Supersedes BS 8500-1:2015+A2:2019
	BS 8500-2:2023	Concrete – Complementary British Standard to BS EN 206: Specification for constituent materials and concrete.	Supersedes BS 8500-2:2015+A2:2019
	BS 8666:2020	Scheduling, dimensioning, bending and cutting of steel reinforcement for concrete	Supersedes BS 8666:2005

Used (✓)	The Manual Contract Document for Highway Works (MCHW)		
	MCHW reference	Title	Notes
✓	MCHW Volume 1: October 2022	Specification for Highway Works	<i>Specification compliant with the execution standards must be used. A Departure is necessary for the parts</i>

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			where a compliant revision has not been published. Amendments October 2022 Supersedes April 2022 version
✓	MCHW Volume 2: October 2022	Notes for guidance on the Specification for Highway Works	Notes for guidance compliant with the execution standards must be used. A Departure is necessary for the parts where a compliant revision has not been published. Amendments October 2022 Supersedes November 2021 version
	MCHW Volume 3: February 2017	Highway Construction Details	

Used (✓)	The Design Manual for Roads and Bridges (DMRB)		
	DMRB reference	Title	Notes
✓	GG 101 Revision 0.1.0	Introduction to the Design Manual for Roads and Bridges	Replaces GG 101 Revision 0
	GG 102 Revision 0	Quality Management Systems for Highway Design	Replaces GD 02/16
	GG 103 Revision 0	Introduction and general requirements for sustainable development and design	
	GG 104 Revision 0.1.0	Requirements for Safety Risk Assessment	Replaces GG 104 Revision 0
	GG 184 Revision 0	Specification for the use of Computer Aided Design	Replaces IAN 184/16
✓ c	CG 300 Revision 0.2.2	Technical approval of highway structures	Supersedes CG 300 Revision 0.2.1
	CG 302 Revision 0	As-built, operational and maintenance records for highway structures	Supersedes BD 62/07
	CG 303 Revision 0.1.0	Quality assurance	Supersedes CG 303

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Used (✓)	The Design Manual for Roads and Bridges (DMRB)		
	DMRB reference	Title	Notes
		scheme for paints and similar protective coatings	Revision 0
	CG 305 Revision 0	Identification marking of highway structures	Supersedes BD 45/93
	CG 501 Revision 2	Design of highway drainage systems	Supersedes HD 33/16, TA 80/99
	CD 127 Revision 1.0.1	Cross-sections and headrooms	Replaces TD 27/05 and TD 70/08
	CD 350 Revision 1.0.0	The design of highway structures	Supersedes CD 350 Revision 0
	CD 351 Revision 0	The design and appearance of highway structures	Supersedes BA 41/98
	CD 352 Revision 0.0.1	Design of road tunnels	Supersedes CD 352 Revision 0
	CD 353 Revision 0	Design criteria for footbridges	Supersedes BD 29/17
	CD 354 Revision 2.1.0	Design of minor structures	Supersedes CD 354 Revision 2.0.0
	CD 355 Revision 0	Application of whole-life costs for design and maintenance of highway structures	Replaces BD 36/92 and BA 28/92
	CD 356 Revision 1	Design of highway structures for hydraulic action	Supersedes BA 59/94
	CD 357 Revision 1.1.0	Bridge expansion joints	Replaces CD 357 Revision 1
	CD 358 Revision 2.5.0	Waterproofing and surfacing of concrete bridge decks	Supersedes CD 358 Revision 2.4.0
	CD 359 Revision 0.0.1	Design requirements for permanent soffit formwork	Supersedes CD 359 Revision 0
	CD 360 Revision 2	Use of compressive	Supersedes BD 81/02

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Used (✓)	The Design Manual for Roads and Bridges (DMRB)		
	DMRB reference	Title	Notes
		membrane action in bridge decks	
	CD 361 Revision 0.1.0	Weathering steel for highway structures	Supersedes CD 361 Revision 0
	CD 362 Revision 1	Enclosure of bridges	Replaces BD 67/96 and BA 67/96
	CD 363 Revision 0	Design rules for aerodynamic effects on bridges	Replaces BD 49/01
	CD 364 Revision 0.0.1	Formation of continuity joints in bridge decks	Replaces CD 364 Revision 0
	CD 365 Revision 1.1.0	Portal and cantilever signs/signals gantries	Replaces CD 365 Revision 1
	CD 366 Revision 0	Design criteria for collision protection beams	Replaces BD 65/14
	CD 367 Revision 0	Treatment of existing structures on highways widening schemes	Replaces BD 95/07
	CD 368 Revision 0	Design of fibre reinforced polymer bridges and highway structures	Replaces BD 90/05
	CD 369 Revision 1.0.0	Surface protection for concrete highway structures	Replaces CD 369 Revision 0
	CD 371 Revision 0.0.1	Strengthening highway structures using fibre-reinforced polymers and externally bonded steel plates	Replaces CD 371 Revision 0
	CD 372 Revision 1.0.0	Design of post-installed anchors and reinforcing bar	Supersedes CD 372 Revision 0

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Used (✓)				The Design Manual for Roads and Bridges (DMRB)			
				DMRB reference			
				Title			
				Notes			
				connections in concrete			
				Impregnation of reinforced and prestressed concrete highway structures using hydrophobic pore-lining impregnants			
				Supersedes CD 373 Revision 0			
				CD 373 Revision 0.1.0			
				The use of recycled aggregates in structural concrete			
				Supersedes CD 374 Revision 0			
				CD 374 Revision 0.0.1			
				Design of corrugated steel buried structures			
				Supersedes CD 375 Revision 1			
				CD 375 Revision 2.0.0			
				Unreinforced masonry arch bridges			
				Replaces CD 376 Revision 0			
				CD 376 Revision 0.0.1			
				Requirements for road restraint systems			
				Supersedes CD 377 Revision 4			
				CD 377 Revision 5.0.0			
				Managing geotechnical risk			
				Replaces CD 622 Revision 1			
				CD 622 Revision 2.0.0			
				Assessment and upgrading of in-service parapets			
				Supersedes CS 461 Revision 0.1.0			
				CS 461 Revision 0.2.0			
				Repair and management of deteriorated concrete highway structures			
				Supersedes CS 462 Revision 0			
				CS 462 Revision 0.1.0			
				Designing health and safety into maintenance			
				Replaces IAN 69/15			
				GD 304 Revision 2			
				Environmental assessment and monitoring			
				Supersedes HA 205/08, HD 48/08, IAN 125/15, and IAN 133/10			
				LA 104 Revision 1			

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Used (✓)	The Design Manual for Roads and Bridges (DMRB)		
	DMRB reference	Title	Notes
	LA 106 Revision 1	Cultural heritage assessment	Supersedes HA 208/07, HA 60/92, HA 75/01
	LA 110 Revision 0	Material assets and waste	Supersedes IAN 153/11
	LA 113 Revision 1	Road drainage and the water environment	Supersedes HD 45/09
	LD 119 Revision 0	Roadside environmental mitigation and enhancement	Formerly LA 119, which superseded HA 65/94 and HA 66/95
	Interim Advice Notes		
	IAN reference	Title	Notes
	IAN 105/08	Implementation of construction (design and management) 2007 and the withdrawal of SD 10 and SD 11	This document has been withdrawn without replacement.

Used (✓)	Miscellaneous		
	Standard reference	Title	Notes
	CIRIA C543	Bridge Detailing Guide	
	CIRIA C686	Safe Access for Maintenance and Repair	
	CIRIA C760	Guidance on embedded retaining wall design	

Scheme title: Hinchliffe Mill, Water Street, Holmbridge
Structure title: Reinforced Concrete Retaining Wall

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Used (✓)	Miscellaneous		
	Standard reference	Title	Notes
	CIRIA C766	Control of cracking caused by restrained deformation in concrete	Supersedes C660
	CIRIA C777	General fixings – guidance on selection and whole-life management	

Additional Standards		
Additional standards needed for a particular design should be listed here.		
Reference	Title	Notes

Scheme title: Hinchliffe Mill, Water Street, Holmbridge
Structure title: Reinforced Concrete Retaining Wall

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APPENDIX B

DRAWINGS

Scheme title: Hinchliffe Mill, Water Street, Holmbridge
Structure title: Reinforced Concrete Retaining Wall

Struc Ref: #####
Rev: 01
Date: 12/05/2026

APPENDIX C

ADDITIONAL INFORMATION
