SCOTTISH MINISTERS' REQUIREMENTS

SCHEDULE 6 PART 4

DESIGN AND CERTIFICATION OF OPERATIONS AND WORKS

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SCOTTISH MINISTERS' REQUIREMENTS

SCHEDULE 6 PART 4

DESIGN AND CERTIFICATION OF OPERATIONS AND WORKS

1. INTRODUCTION

1.1 Overall Requirements

1.1.1 Operations executed by the Operating Company may require the Operating Company to execute a Design. The Operating Company shall execute such Design.

For the purposes of this Contract the following category of Design will not be subject to an Order:

(i) Design for Core Operations, which includes Design for Schemes that have an Estimated Construction Value of no more than £50,000.

For the purposes of this Contract the following three categories of Design shall be subject to an Order if the Director requires such Design to be executed:

(i) Design for Schemes with an Estimated Construction Value of more than £50,000 that are undertaken by the Operating Company as Ordered Operations,

(ii) Design for Works undertaken by Works Contractors, or

(iii) Design for work undertaken by any other third party.

1.1.2 The Design procedure for the categories of Design identified in paragraph 1.1.1 of this Part shall be identical up to the stage at which:

(i) calculations have been completed,

(ii) working Drawings prepared, and

(iii) all certification for the said Design has been completed and registered in the Central Office by the Operating Company.

1.1.3 The Design procedure shall not include road safety audits. Road safety audits shall be undertaken in accordance with Schedule 6 Part 3.

1.1.4 Figure Annex 6.2 titled "Contractual Provisions for Design Associated with Schemes" in Schedule 1 Annex 6 illustrates the approach to be taken for Design for Core Operations and for Ordered Operations.

2. DESIGN

2.1 Design Brief

2.1.1 The Operating Company shall provide the Director with a brief for a Design when appropriate that includes as a minimum:

(i) an outline of the Design requirement,

(ii) for Designs for all Schemes with an Estimated Construction Value over £50,000, the estimated cost of the Design calculated in accordance with Schedule 2,

(iii) the name and grade for each Operating Company employee involved with the Design,

(iv) a full detailed programme for the Design including all hold points,

(v) the Operating Company's method of approach to the Design,

(vi) development of preliminary and conceptual Design options,

(vii) recommendation of the preferred Design to the Director with justification,

(viii) submissions and presentations, and

(ix) the estimated cost of the Scheme at Design brief stage.

2.1.2 The Director will consider the brief and at his discretion, request the Operating Company to amend and re-submit it.

2.1.3 The Director will confirm whether or not the brief is acceptable and at his discretion require the Operating Company to execute a Design. Design for Schemes that have an Estimated Construction Value of over £50,000 will be subject to an Order.

2.2 Design Procedure

2.2.1 For Ordered Operations with an Estimated Construction Value of more than £50,000 the Director will issue an Order for the Operating Company to execute a Design. For Ordered Operations with an Estimated Construction Value of no more than £50,000 the Director will issue an instruction to execute a Design. Such Order or instruction shall state the requirements for the Design, including, where appropriate, the:

(i) production of a Design and estimated Scheme cost,

(ii) confirmation that the brief provided by the Operating Company is acceptable to the Director or that an amended brief is required,

(iii) programme requirements for the various parts of the procurement procedure for the Scheme including the latest date for commencement of the Design,

(iv) development of employer's requirements for use with a Works Contractor's Design contract,

(v) investment appraisal and whole life costings,

(vi) value management or value engineering workshops and studies,

(vii) requirements for the preparation of road orders, plans, schedules, environmental impact assessments and environmental statements, and

(viii) in addition, for all Works Contracts:

(a) latest date for commencement of the Works,

(b) latest date for completion of the Works,

(c) estimated cost of Works,

(d) clarification in writing that the Operating Company shall act as the Contract Administrator for the Scheme, and

(e) clarification in writing to the Operating Company that the Operating Company shall supervise the Works.

2.2.2 The Design shall include as a minimum:

(i) preparation of Drawings and specifications for a Scheme or repair of Damage to Crown Property,

(ii) engineering calculations for a Scheme or repair of Damage to Crown Property,

(iii) reasons for choice of materials (including replacing with the same or similar materials),

(iv) reasons for choice of equipment,

(v) reasons for specifying particular standards or departures therefrom,

(vi) reasons for extent or scope of a Scheme or repair of Damage to Crown Property,

(vii) reasons for the Design option developed,

(viii) the construction phase plans in accordance with the CDM Regulations, and

(ix) any other requirements necessary to be included in the Design to enable the execution and completion of a Scheme or repair of Damage to Crown Property.

2.2.3 Subject to an Order, the Operating Company shall undertake investigations and studies to supplement the information referred to in paragraph 4.2 of Schedule 4 Part 1 and necessary for the completion of the Design including:

(i) feasibility and option studies,

(ii) aesthetic review with Transport Scotland's aesthetic adviser,

(iii) further investigations,

(iv) ground investigations,

(v) route option proposals,

(vi) road safety audits,

(vii) business impact studies,

(viii) traffic impact studies,

(ix) economic evaluation studies, and

(x) any other investigations or studies required by the Director.

2.2.4 Where a Design of any Scheme carried out by the Operating Company requires the acquisition or procurement of land, the Operating Company shall prepare land plans and schedules in accordance with the requirements of the Director.

When requested by the Director, the Operating Company shall assist the Director in carrying out negotiations for the acquisition, procurement or entry to such land.

2.2.5 The Operating Company shall ensure all Design complies with the *Design Manual for Roads and Bridges together with any other relevant Scottish Executive and Transport Scotland addendums and Interim Amendments*, the *Manual of Contract Documents for Highway Works,* the *Roads for All: Good Practice Guide for Roads*, this Contract and any other Design requirements issued by the Director. All Design shall be certified in accordance with the certification procedures specified in this Contract. Compliance with the *Roads for All: Good Practice Guide for Roads* shall not absolve the Operating Company from any liability under the *Equality Act 2010.*

2.2.6 Where the provisions contained within the *Roads for All: Good Practice Guide for Roads* conflict with those of the *Design Manual for Roads and Bridges*, the Operating Company shall inform the Director and make recommendations on which provisions should be used for the Design. The Director shall decide between the conflicting provisions.

2.2.7 The Operating Company shall require express written consent from the Director to any departure from the *Design Manual for Roads and Bridges,* the *Manual of Contract Documents for Highway Works* or the *Roads for All: Good Practice Guide for Roads* prior to any departure being incorporated into the Design. All departures consented to by the Director shall use the departure from standards Certificate detailed in Annex 6.4/A of this Part.

2.2.8 The Operating Company shall, assess all Designs of Schemes to determine if an environmental impact assessment is required and shall notify the Director of the outcome of such assessment in a draft Record of Determination. Depending upon the scope of the Design, the draft Record of Determination shall be supported, where applicable, by either:

(i) an environmental assessment report, or

(ii) an environmental review report,

to be held by the Operating Company at the Central Office for all Designs prior to the completion of Design or certification.

2.2.9 The Operating Company shall hold the documents at the Central Office and shall not complete Design or certification until the Director's consent to the draft Record of Determination, draft environmental assessment report or draft environmental review report has been received.

2.2.10 Once consented to, the Record of Determination, environmental assessment report or environmental review report shall be signed by the Director before publication of Statutory Orders and retained at the Central Office.

2.2.11 When the Director determines that an environmental impact assessment is required, the Operating Company shall ensure that the relevant statutory procedures are followed and the findings of the environmental impact assessment reported in an environmental statement.

2.2.12 Where the Design of any Scheme requires new road orders, variations to existing road orders, environmental impact assessments and subsequent environmental statements, the Operating Company shall, as part of the Design and in accordance with the *Design Manual for Roads and Bridges*:

(i) prepare the required road orders, plans, schedules, environmental impact assessments and environmental statements, and

(ii) submit these when required to the Director.

The Director, assisted as required by the Operating Company, shall publish environmental statements and public notices of determination and make the said road orders in accordance with the procedures referred to in the Legislation.

2.2.13 The Operating Company shall prepare the pre-construction information in accordance with the CDM Regulations as part of any Design.

3. CERTIFICATION PROCEDURES

3.1 General

3.1.1 All Design shall be certified in accordance with the certification procedures specified in this Contract. Such certification shall be undertaken as part of the Order for the Design.

3.1.2 Where the Operating Company executes or procures a Design, it shall provide certification to cover the Design or Design Element(s) where the:

(i) Scheme(s) is subsequently executed by the Operating Company, or by a Works Contractor, or

(ii) Relevant work is executed by others.

3.1.3 The certification procedures shall apply to all Operations that constitute Design or any activity that relates to specifying Operations and to the manner in which they are executed.

3.1.4 The Technical Approval of Structures shall be in accordance with the *Design Manual for Roads and Bridges* together with any other relevant Scottish Executive and Transport Scotland addendums and Interim Amendments. Prior to the Operating Company commencing a Design for:

(i) Structures (including temporary Structures), or

(ii) the strengthening, structural repair or partial renewal of existing Structures, or

(iii) Mechanical and electrical installations related to structures,

a Design proposal shall be submitted to the Director at the preliminary Design stage on an approval in principle (AIP) form. Copies of forms AIP1, AIP2 and AIP3 are provided in Annex 6.4/A of this Part. Submission of the AIP form by the Operating Company shall represent a Scottish Minister's Hold Point in the Quality Plan.

No further Operations in respect of any such Design shall be executed until the Director returns the AIP form granting consent to the Operating Company. The Director's consent may include amendments that are required or conditions that are placed in connection with the consent.

3.1.5 The Director will not accept modifications or qualifications to any of the Certificates and notices provided in Annex 6.4/A of this Part other than those consented to in advance and in writing.

3.1.6 The certification procedure associated with a part of a Design or Design Element shall be deemed to cover all aspects and stages of a Design or Design Element.

3.1.7 Where the value of the Scheme or repair of Damage to Crown Property is less than £100,000 the Operating Company shall use the most recent version of the appropriate combined Design and Design Check Certificate contained in Annex 6.4/A of this Part in lieu of the other Design and check Certificates.

3.2 Design Certificates and Design Check Certificates

3.2.1 The Design check for all Structures shall be carried out by the Operating Company in accordance with the procedures described in *Design Manual for Roads and Bridges*. Prior to executing any Design checks, the Operating Company shall submit the name of the proposed independent Checker to the Director for written consent prior to executing any Design checks.

3.2.2 Design Certificates and Design Check Certificates shall be prepared by the Operating Company for all parts of a Design or Design Element(s) including where appropriate:

(i) accommodation work,

(ii) drainage,

(iii) earthworks,

(iv) environment and landscaping,

(v) fencing and environmental barriers,

(vi) kerbs footways and paved areas,

(vii) lighting and electrical work,

(viii) piling,

(ix) road layout,

(x) road pavements,

(xi) road restraint systems,

(xii) signs and road markings,

(xiii) Structures,

(xiv) departures from standard or aspects not covered by standards, and

(xv) any other Design Element not covered above.

3.2.3 For Schemes, other than Schemes which involve works on the Principal Crossings, that have an Estimated Bid Value of less than or equal to £1,000,000, the Design check for all parts of the Design or all parts of the Design Elements shall be subject to a check in accordance with the procedures described in the *Design Manual for Roads and Bridges*. The checking procedures for Schemes on the Principal Crossings shall be category 3 in accordance with the *Design Manual for Roads and Bridges*.

3.2.4 The Design check for any Operations, Works or work carried out by others with an Estimated Bid Value of more than £1,000,000 shall be executed by a Checker unless otherwise instructed in writing by the Director.

3.2.5 When parts of a Structure are designed by more than one Designer, a category 3 Design check for the whole Structure shall be carried out by a single Checker.

3.2.6 Separate Design Certificates and Design Check Certificates shall be prepared by the Operating Company for the Design of each Structure.

3.2.7 Construction of any part of the Operations, Works or work carried out by others that requires a Certificate in accordance with requirements of this Part shall not commence until the relevant completed Certificate with all associated information has been recorded and contained within the Design register or Design check register.

3.3 Earthwork Certification

3.3.1 The Operating Company shall comply with the requirements for earthworks certification as stated in the *Design Manual for Roads and Bridges* except where such requirements have been amended or modified as stated within this Contract.

A copy of the factual report as referred to in the *Design Manual for Roads and Bridges* shall be forwarded to the relevant Scottish office of the British Geological Survey on completion of the Design.

3.3.2 All Operations or Works involving earthworks shall be subject to a ground investigation in accordance with the *Design Manual for Roads and Bridges* and the *Manual of Contract Documents for Highway Works*.

Subject to an Order, the Operating Company may procure ground investigations services by a framework agreement for ground investigation services or as required by the Order. The Scottish Ministers will remain the “Employer” for all said agreements. The Director will decide how the ground investigation services are procured and shall advise the Operating Company of his decision.

3.3.3 Subject to an Order, the Operating Company shall act as Contract Administrator for any such ground investigations. The duties of the Engineer shall include preparing work orders, issuing instructions and supervision as required to permit the particular ground investigation service provider to execute and complete the investigation.

3.3.4 Prior to an Order being issued and when requested by the Director, the Operating Company shall provide for the Director’s consent, a draft Design brief for ground investigations which shall include:

(i) principal technical details,

(ii) principal delivery dates and programme,

(iii) preferred method of procurement for ground investigation services with full justification for the preference including a Value for Money Assessment as if for a Bid,

(iv) schedule of plant and resources including cost estimates,

(v) conflicts of interest,

(vi) access to land,

(vii) details of geotechnical certification route to be followed, and

(viii) any other information required by the Director.

3.3.5 A geotechnical interpretative report, compiled in accordance with the *Manual of Contract Documents for Highway Works,* shall be prepared and incorporated into the Design by the Designer for all earthworks including piling.

The Design check of the earthworks Design including the design check of the interpretative report shall be carried out by a Checker.

Where, in accordance with the *Design Manual for Roads and Bridges* the ground investigation is categorised as category B, the independent check shall be carried out by the Director's appointed independent geotechnical checker. Such independent check shall be completed prior to completion of a Scheme Design and prior to tendering of a Works Contract.

The Operating Company shall forward a copy of the independent check Certificate to the Director upon receiving sign off from the independent geotechnical checker.

3.4 The Staged Procedure for Design Interim Certificates and Design Check Interim Certificates

3.4.1 The parts of a Design or Design Element(s) that require Design Certificates and Design Check Certificates may each be phased in order to:

(i) accommodate the Operating Company's phasing of the Design or the phasing of the Operations, Works or work carried out by others, and

(ii) enable construction of a phased Design or Design Element(s) to proceed.

3.4.2 When a phased method of certification is adopted by the Designer, the following procedure shall apply:

(i) for each phase of a Design or Design Element, the Operating Company shall produce a schedule of the further divided parts of a Design or Design Element that it proposes to certify. Any such schedules shall have the written consent of the Designer and the Checker before being implemented and incorporated into the Design register,

(ii) the Operating Company shall provide and maintain within the Design register the status of all Design Interim Certificates and Design Check Interim Certificates for each phase of the Design or Design Element,

(iii) each Design Interim Certificate for each further phase of the Design or Design Element shall be signed and dated by the Designer and the Operating Company. Each Design Check Interim Certificate shall be signed and dated by the Checker and the Operating Company with original signatures,

(iv) the Design register shall also contain all required completed interim Certificates and include cross-references to locations where all information referred to within the Design Interim Certificate is stored, and

(v) construction of any part of the Operations, Works or work carried out by others for each phase of the Design or Design Element requiring certification shall not commence until the completed Design Interim

Certificates with all associated information are recorded and contained within the Design register.

3.4.3 Once all Design Interim Certificates and Design Check Interim Certificates for a part of a Design or Design Element have been completed, the Operating Company shall complete a Design Certificate and Design Check Certificate.

3.4.4 The Operating Company shall record and maintain in the Design register, the original signed and dated Design Certificates and Design check Certificates for each part of the Design or Design Element with original signatures, along with one copy of all relevant Drawings, schedules and numbered appendices.

The Design register shall also contain all:

(i) Design Interim Certificates,

(ii) Design Certificates,

(iii) completed Design and Design Check Certificates including cross-references to locations where all information referred to within the Certificates is stored, and

(iv) Records kept and maintained including relevant Drawings, schedules and numbers appendices and any other relevant documents.

The Design register shall be stored at the Central Office.

3.5 Information to be provided with Design Certificates, Check Certificates, Design Interim Certificates and Design Check Interim Certificates

3.5.1 The Operating Company shall ensure the scale of any plans, sections and other Drawings are relevant to the part of a Design being certified and show the true disposition of all features that may influence a Design or Design Element including where appropriate:

(i) for fencing and environmental barriers, road restraint systems, drainage, earthworks, road pavement, kerbs, footways and paved areas, signs and road markings, lighting and electrical work, environmental and landscaping, and accommodation work:

(a) plans showing the layout and extent of the certified part of the Design or Design Element,

(b) Drawings showing typical and or specific cross-sections, and

(c) any other schedule or supporting information associated with the part of the Design or Design Element that is listed in the numbered appendices within the specification used in the Works Contract.

(ii) for road layout:

(a) plans of the road layout to a scale of not less than 1:1250 showing road intersections Structures and road interchanges,

(b) longitudinal sections of the Trunk Road and, where relevant, side roads, and

(c) any other schedules or supporting information (including signed off departures from standard) associated with the part of the Design or

Design Element that are listed in the numbered appendices within the specification of a Works Contract, Operations Instruction or Site Operations Instruction,

(iii) for Structures:

(a) all Drawings issued for construction of the Structures.

3.6 Design Construction Completion Certificates

3.6.1 The Operating Company shall complete and sign each construction Certificate detailed in Annex 6.4/A of this Part within five Working Days of completion of the Site construction of the identified part of the Design or Design Element. For the purposes of this Certificate, completion shall be the completion of the Operations excluding the Defects Correction Period, as relevant for the particular Scheme.

3.7 Construction Completion Certificates

3.7.1 The Operating Company shall complete and sign the required construction completion Certificates detailed in Annex 6.4/A of this Part within five Working Days of completion of the Operations or Works.

3.8 Maintenance Certificates

3.8.1 The Operating Company shall complete and sign the Maintenance Certificate detailed in Annex 6.4/A of this Part within five Working Days of completion of the maintenance period of the Operations or Works Contract.

3.9 Design Defects Correction Certificate

3.9.1 The Operating Company shall complete and sign the Design Defects Correction Certificate detailed in Annex 6.4/A of this Part within five Working Days of completion of a correction of a Defect or Non-Conformance relating to a Design or Design Element.

3.10 Consultation Certificate

3.10.1 The Operating Company shall consult and comply with the requirements of any affected third parties including as a minimum ,where appropriate, public bodies, Undertakers, authorities and Relevant Organisations during the execution of this Contract. Upon obtaining written consent from the relevant third party, the Operating Company shall prepare and sign Consultation Certificates countersigned by the appropriate third party.

The Operating Company shall retain all correspondence with such parties confirming such consultations in the Central Office.

3.10.2 The Operating Company shall not commence or procure the commencement of any Operations or Works Contracts that could affect the interests of any third party until this consultation procedure has been completed.

3.11 Road Safety Audit Certificate

3.11.1 When a road safety audit is required, a Road Safety Audit Certificate as provided in Annex 6.4/A of this Part shall be completed and appended to the Design or combined Design and Check Certificate as relevant by the Operating Company.

3.12 Certificate for Departure from Standard or Aspects Not Covered by Standards

3.12.1 The Operating Company shall not incorporate any departure from the requirements stated in the *Design Manual for Roads and Bridges together with any other Scottish Executive or Transport Scotland Interim Amendments.,* the *Manual of Contract Documents for Highway Works* and the *Roads for All: Good Practice Guide for Roads* into a Design, Operations, Works Contract or work until:

(i) written consent has been obtained from the Director, and

(ii) a signed copy of the completed Departure from Standard Certificate has been received from the Director.

3.13 Records and Registers

3.13.1 The Operating Company shall provide, maintain and store within the Central Office from the date a relevant Scheme has been identified:

(i) A register of:

(a) approval in principle form,

(b) Design Certificate,

(c) Design Check Certificate,

(d) Design Interim and Check Certificate,

(e) Design Construction Completion Certificate,

(f) Construction Completion Certificate,

(g) construction Completion Certificate for supervision of Works,

(h) Maintenance Certificate,

(i) Maintenance Certificate (supervision of Works),

(j) Design Defects correction Certificate,

(k) consultation Certificate,

(l) Variation Order/change instruction Certificate,

(m) Road Safety Audit Certificate, and

(n) Departure from Standard Certificates.

The register shall record the current status of all Certificates.

(ii) The original of each Certificate as required, signed and dated by the persons referred to therein.

(iii) All originals of all supporting documents referred to within each register and Certificate required by this Contract.

Such information shall include Drawings, schedules, numbered appendices and any other information required.

3.13.2 The Operating Company shall produce and maintain a register of all Works Contract Instructions in the contract control and management function of the Integrated Roads Information System in accordance with the requirements of Schedule 4 Part 1.

3.13.3 Subject to an Order, for each Works Contract the Operating Company shall execute the following duties and produce the following registers on Site, for inspection at any time by the Director and the Performance Audit Group:

(i) Site instructions,

(ii) variation orders,

(iii) Drawings for the Works including updates certified by the Contract Administrator

(iv) reinforcement schedules,

(v) dayworks Records,

(vi) Certificates,

(vii) payment Records,

(viii) measurement progress including but not limited to dipping Records for each pavement layer to demonstrate correct thickness of each bound and unbound layer,

(ix) extensions of time claimed by the Works Contractor,

(x) extensions of time granted by the Contract Administrator,

(xi) claims for payment by the Works Contractor,

(xii) new Works items and rates and prices,

(xiii) site diaries and test results including but not limited to:

(a) reports on Works Contractor's progress,

(b) weather conditions,

(c) requests for and results of inspections of workmanship,

(d) the Contract Administrator’s confirmation of compliance with the relevant specification at each stage of construction, and

(e) traffic management inspections,

(xiv) the presence of the Engineer's representative on the site of the Works for each day that site work is in progress,

(xv) Health and safety file as required by Schedule 6 Part 2 which shall incorporate any of the above Records on completion of Works on Site, and

(xvi) any other items relevant to any particular Works Contract.

All such registers shall be verified and signed each month by the Operating Company.

On completion of Works, the on-site Records shall be registered in the Works Contract register as required by this Contract.

3.13.4 The Operating Company shall maintain all Records, including material and workmanship testing Certificates, to ensure that it can demonstrate:

(i) that the Works Contractor has complied with the requirements of the Works Contract, or

(ii) that the Operating Company has complied with the requirements of this Contract, for any Scheme carried out as Operations.

3.13.5 Testing certification shall be maintained at the Central Office and shall be available within five Working Days of the test being completed, irrespective of whether it was carried out as Operations or under a Works Contract.

All such testing certification and testing Records shall be maintained in an easily identifiable file separate from other Scheme Records at the Central Office.

Where the testing certification reports a non-conforming product, the Operating Company shall clearly record in the register of Notices of Non-Conformance to be maintained by the Operating Company in accordance with the provisions of this Contract within five Working Days of receipt of the Certificate what action has been taken in relation to the non-conforming product.

This is Annex 6.4/A to Schedule 6 Part 4 referred to in the foregoing Agreement between Scottish Ministers and Amey LG Limited.

SCOTTISH MINISTERS' REQUIREMENTS

SCHEDULE 6 PART 4

DESIGN AND CERTIFICATION OF OPERATIONS AND WORKS

ANNEX 6.4/A – Certificates in Relation to Certification Procedures

SCOTTISH MINISTERS' REQUIREMENTS

SCHEDULE 6 PART 4

DESIGN AND CERTIFICATION OF OPERATIONS AND WORKS

ANNEX 6.4/A – Certificates in Relation to Certification Procedures

CONTENTS

Departure from Standard Certificate Templates

Certificate No: DfS(S)

Certificate No: DfS(R)

NOTE:

(S) denotes Structures certificate

(EW) denotes Earthworks certificate

(RRS) denotes Road Restraint System certificate

(R) denotes Roads certificate

(*) denotes ability to use certificate as part of phased construction activities

MODEL OF CERTIFICATE TO BE USED BY THE OPERATING COMPANY

APPROVAL IN PRINCIPLE **FORM AIP1**
Order Reference .....

Scheme Identifier……

APPROVAL IN PRINCIPLE

(Bridge and other Highway Structures), Eurocodes

Name of Project _____

Name of Bridge or Structure _____

Structure Ref No _____

1. HIGHWAY DETAILS

1.1 Type of road

1.2 Permitted traffic speed

1.3 Existing restrictions[1]

2. SITE DETAILS

2.1 Obstacles crossed

3. PROPOSED STRUCTURE

3.1 Description of structure and design working life

3.2 Structural type

3.3 Foundation type

3.4 Span arrangements

3.5 Articulation arrangements

3.6 Classes and levels[2]

3.6. 1 Consequence class

3.6.2 Reliability class

3.6.3 Inspection level

3.7 Road restraint systems requirements

3.8 Proposed arrangements for future maintenance and inspection

3.8.1 Traffic management

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

3.9 Environment and sustainability

3.10 Durability, materials and finishes[3]

3.11 Risks and hazards considered for design, execution, maintenance and demolition. Consultation with and/or agreement from CDM Coordinator[4]

3.12 Estimated cost of proposed structure together with other structural forms considered (including where appropriate proprietary manufactured structure), and the reasons for their rejection (including comparative whole life costs with dates of estimates)

3.13 Proposed arrangements for construction

3.13.1 Construction of structure

3.13.2 Traffic management

3.13.3 Service diversions

3.13.4 Interface with existing structures

4. DESIGN CRITERIA

4.1 Actions

4.1.1 Permanent actions

4.1.2 Snow, wind and thermal actions

4.1.3 Actions relating to normal traffic under AW regulations and C&U regulations[5]

4.1.4 Actions relating to General Order traffic under STGO regulations[6]

4.1.5 Footway or footbridge variable actions

4.1.6 Actions relating to Special Order traffic, provision for exceptional abnormal indivisible loads including location of vehicle track on deck cross-section[7,8]

4.1.7 Accidental actions

4.1.8 Action during construction

4.1.9 Any special action not covered above[9]

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

4.3 Minimum headroom provided

4.4 Authorities consulted and any special conditions required

4.5 Standards and documents listed in the Technical Approval Schedule

4.6 Proposed Departures relating to departures from standards given in 4.5

4.7 Proposed Departures relating to methods for dealing with aspects not covered by standards in 4.5

5. STRUCTURAL ANALYSIS

5.1 Methods of analysis proposed for superstructure, substructure and foundations[10]

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

5.3 Assumptions intended for calculation of structural element stiffness

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

6. GEOTECHNICAL CONDITIONS

6.1 Acceptance of recommendations of the Geotechnical Design Report to be used in the design and reasons for any proposed changes

6.2 Summary of design for structure in the Geotechnical Design Report. Describe foundations fully including the reasons for adoption of allowable and proposed bearing pressures/pile loads, strata in which foundations are located, provision for skin friction effects on piles and for lateral pressures due to compression of underlying strata.

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

6.4 Anticipated ground movements or settlement due to embankment loading, mineral extraction, flowing water, and measures proposed to deal with these effects as far as they affect the structure.

6.5 If the Geotechnical Design 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[11]

6.6 Results of groundwater tests and any counteracting measures proposed.

7. CHECK

7.1 Proposed Category and Design Supervision Level

7.2 If Category 3, name of proposed Independent Checker

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

8. DRAWINGS AND DOCUMENTS

8.1 List of drawings (including numbers) and documents accompanying the submission[12]

9. THE ABOVE IS SUBMITTED FOR ACCEPTANCE

We confirm that details of the temporary works design will be/have* been passed to the permanent works Designer for review.[13]

Signed ..... Firm …….

Name ..... Date ……..

Design Team Leader

Name

Engineering Qualifications .....[14]

Name of Organisation .....

Date .....

Signed ..... …..

(On behalf of the Operating Company)

Name …… Date .....

(Block Capitals)

10. THE ABOVE DEPARTURES FROM STANDARDS / ASPECTS FROM STANDARDS ARE REJECTED / AGREED

Signed .....

Chief Bridge Engineer

Name ..... Date .....
(Block Capitals)

11. THE ABOVE IS ACCEPTED SUBJECT TO THE AMENDMENTS AND CONDITIONS SHOWN BELOW

Signed .....

Name ..... Date .....
(Block Capitals)

Position Held .....

Engineering Qualifications .....

Date .....

* Delete as appropriate

INSTRUCTIONS FOR THE OPERATING COMPANY'S COMPLETION OF APPROVAL IN PRINCIPAL FORM AIP1 AND ASSOCIATED DOCUMENTS

The form AIP1 shall be completed and submitted in accordance with BD 2 of Design Manual for Roads and Bridges, using the form as amended within this schedule.

BD 2 Annex A, Annexes A2 to A6 are not required.

Specific notes for completion of AIP1

1. Include weight, height, width and any environmental restriction at or adjacent to the bridge.
2. State the classes and levels for the whole structure, as well as those for the individual structural elements if higher or lower.
3. For concrete structures, give applicable exposure classes for particular structural elements. For all material strengths given, list the relevant codes/standards.
4. Designers should name the CDM co-ordinator and confirm that the CDM co-ordinator has reviewed the risks and hazards identified in the AIP and is satisfied. See also clause 2.12(i), (ii) and (iii) of BD 2.
5. E.g. Load models 1 and 2, BS EN 1991-2.
6. E.g. SV model vehicle in Load Model 3, BS EN 1991-2.
7. E.g. SOV model vehicle in Load Model 3, BS EN 1991-2 and/or individual vehicle which includes the following information as applicable:
    a) Gross weight of the vehicle in tonnes and vehicle type and number.
    b) Axle load and spacings (longitudinally and transversely)
    c) Air cushion in tonnes over area applied (in metres, longitudinally and transversely)
    d) Single or twin tyres and wheel contact areas
8. If in doubt, the heavy or high load route requirements should be confirmed by consulting Transport Scotland.
9. E.g. seismic action, atmospheric icing, floating debris etc.
10. List the main structural elements for superstructure, substructure and foundation. If the designs of the superstructure, substructure and/or foundation are carried out by different teams, refer to clause 2.22 and 2.42 of BD2.
11. When the Geotechnical Design Report becomes available, an addendum to the AIP, covering section 6, must be submitted to the TAA. The addendum must have its own sections 8, 9 and 10 to provide a list of drawings, documents and signatures.
12. Include without limitation:
    a) Technical Approval Schedule (TAS), including Scottish Addenda and Transport Scotland Interim Amendments. Standards which apply shall be clearly identified by striking through those which do not apply.
    b) General Arrangement Drawing
    c) Relevant extracts from the Geotechnical Design Report
    d) Departures
    e) Relevant correspondence and documents from consultations
13. This statement is applicable to temporary works design AIP only.
14. CEng, MICE or CEng, MIStructE

An AiP is valid for three years after the date of agreement by Transport Scotland. If the construction has not yet commenced within this period, the AiP must be re-submitted to Transport Scotland for review.

APPROVAL IN PRINCIPLE

FORM AIP2
Order Reference .....

Scheme Identifier……

APPROVAL IN PRINCIPLE

(Bridge and other Highway Structures), Non-Eurocodes

Name of Project

Name of Bridge or Structure

Structure Ref No

1. ROAD DETAILS

1.1 Type of road

1.2 Permitted traffic speed

1.3 Existing restrictions[1]

2. SITE DETAILS

2.1 Obstacles crossed

3. PROPOSED STRUCTURE

3.1 Description of structure and design working life

3.2 Structural type

3.3 Foundation type

3.4 Span arrangements

3.5 Articulation arrangements

3.6 Road restraint systems requirements

3.7 Proposed arrangements for future maintenance and inspection/Inspection for Assessment

3.7.1 Traffic management

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

3.7.3 Intrusive or further investigations proposed

3.8 Environment and sustainability

3.9 Durability, materials and finishes/materials strengths assumed and basis of assumptions[2]

3.10 Risks and hazards considered for design, execution, maintenance and demolition. Consultation with and/or agreement from CDM Coordinator[3]

3.11 Estimated cost of proposed structure, together with other structural forms considered (including where appropriate proprietary manufactured structure), and the reasons for their rejection (including comparative whole life costs with dates of estimates)

3.12 Proposed arrangements for construction

3.12.1 Construction of structure

3.12.2 Traffic management

3.12.3 Service diversions

3.12.4 Interface with existing structures

3.13 Year of construction

3.14 Reason for assessment

3.15 Part of structure to be assessed

4. DESIGN/ASSESSMENT CRITERIA

4.1 Loading

4.1.1 Permanent loads

4.1.2 Snow, Wind and Thermal loads

4.1.3 Loads relating to normal traffic under AW regulations and C&U regulations[4]

4.1.4 Loads relating to General Order traffic under STGO regulations[5]

4.1.5 Footway or footbridge variable loading

4.1.6 Loads relating to Special Order traffic, provision for exceptional abnormal indivisible loads including location of vehicle track on deck cross-section[6]

4.1.7 Accidental loads

4.1.8 Loads during construction

4.1.9 Any special loading not covered above[7]

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[8]

4.3 Minimum headroom provided

4.4 Authorities consulted and any special conditions required

4.5 Standards and documents listed in the Technical Approval Schedule

4.6 Proposed Departures relating to departures from standards given in 4.5

4.7 Proposed Departures relating to methods for dealing with aspects not covered by standards in 4.5

5. STRUCTURAL ANALYSIS

5.1 Methods of analysis proposed for superstructure, substructure and foundations[9,10]

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

5.3 Assumptions intended for calculation of structural element stiffness

5.4 Proposed range of soil parameters to be used in the design/assessment* of earth retaining elements

6. GEOTECHNICAL CONDITIONS

6.1 Acceptance of recommendations of the Geotechnical Design Report to be used in the design/assessment'* and reasons for any proposed changes

6.2 Summary of design for highway structure in Geotechnical Design Report Describe foundations fully including the reasons for adoption of allowable and proposed bearing pressures/pile loads, strata in which foundations are located, provision for skin friction effects on piles and for lateral pressures due to compression of underlying strata

6.3 Differential settlement to be allowed for in the design/assessment'* of the structure 6.4[D] If the Geotechnical Design 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[12]

6.5 Anticipated ground movements or settlement due to embankment loading, mineral extraction, flowing water, and measures proposed to deal with these effects as far as they affect the structure

6.6 Results of groundwater tests and any counteracting measures proposed

7. CHECK

7.1 Proposed Category

7.2 If Category 3, name of proposed independent Checker

7.3[D] Erection proposals or temporary works for which Types Sand P Proposals will be required, listing structural parts of the permanent structure affected with reasons

8. DRAWINGS AND DOCUMENTS

8.1 List of drawings (including numbers) and documents accompanying the submission[13]

8.2[A] List of construction and record drawings (including numbers) to be used in the assessment[14]

8.3[A] List of pile driving or other construction records

8.4[A] List of previous inspection and assessment reports

9. THE ABOVE IS SUBMITTED FOR ACCEPTANCE

We confirm that details of the temporary works design will be/have* been passed to the permanent works Designer for review.[15]

Signed .....

Name .....

Designer/Assessment* Team leader

Engineering Qualifications .....[16]

Name of Organisation .....

Date .....

(On behalf of the Operating Company)

Name …… Date .....

(Block Capitals)

10. THE ABOVE DEPARTURES FROM STANDARDS / ASPECTS FROM STANDARDS ARE REJECTED / AGREED

Signed .....

Chief Bridge Engineer

Name ..... Date .....
(Block Capitals)

11. THE ABOVE IS ACCEPTED SUBJECT TO THE AMENDMENTS AND CONDITIONS SHOWN BELOW

Signed .....

Name ..... Date .....
(Block Capitals)

Position Held .....

Engineering Qualifications .....

Date .....

D = Design, A=Assessment * Delete as appropriate

INSTRUCTIONS FOR THE OPERATING COMPANIES COMPLETION OF APPROVAL IN PRINCIPAL FORM AIP2 AND ASSOCIATED DOCUMENTS

The form AIP2 shall be completed and submitted in accordance with BD 2 of Design Manual for Roads and Bridges, using the form as amended within this schedule.

BD 2 Annex A, Annexes A2 to A6 are not required.

Specific notes for completion of TA 1(b):

1. Include weight, height, width and any environmental restriction at or adjacent to the bridge.
2. In cases of design, give applicable exposure classes for particular concrete structural elements. In cases of assessment, give material strengths from record drawings or intrusive investigation. For all material strengths given, list the relevant codes/standards.
3. Designers should name the CDM co-ordinator and confirm that the CDM co-ordinator has reviewed the risks and hazards identified in the AIP and is satisfied. See also clause 2.12(i), (ii) and (iii) of BD 2.
4. E.g. HA loading to BD37
5. E.g. HB loading to BD37 or SV loading to BS EN 1991-2.
6. E.g. Individual vehicle which includes the following information as applicable:
    a) Gross weight of the vehicle in tonnes and vehicle type and number.
    b) Axle load and spacings (longitudinally and transversely)
    c) Air cushion in tonnes over area applied (in metres, longitudinally and transversely)
    d) Single or twin tyres and wheel contact areas
7. E.g seismic loading, atmospheric icing, floating debris etc.
8. If in doubt, the heavy or high load route requirements should be confirmed by consulting Transport Scotland.
9. List the main structural elements for superstructure, substructure and foundation. If the designs of the superstructure, substructure and/or foundation are carried out by different teams, refer to clause 2.22 and 2.42 of BD2.
10. Factors of safety are required where limit state design codes for bridges are not used. See clause 4.17(e) of BD2.
11. Where no such geotechnical information is available, suggested earth pressure coefficient values given in relevant DMRB parts should be used.
12. When the results of the ground investigation become available, an addendum to the AiP, covering section 6, must be submitted to Transport Scotland. The addendum must have its own sections 8, 9 and 10 to provide a list of drawings, documents and signatures.
13. Include without limitation:
    a) Technical Approval Schedule (TAS), including Scottish Addenda and Transport Scotland Interim AmendmentsStandards which apply shall be clearly identified by striking through those which do not apply.
    b) General Arrangement Drawing
    c) Relevant extracts from the Geotechnical Design Report, Inspection Report, Intrusive Investigation Report, Previous Assessment Report (or reference for Report)
    d) Departures
    e) Relevant correspondence and documents from consultations
14. Include details of previous structural maintenance and/or strengthening works.

15. This statement is applicable to temporary works design AIP only.

16. CEng, MICE or CEng, MIStructE

An AiP is valid for three years after the date of agreement by Transport Scotland. If the construction has not yet commenced within this period, the AiP must be re-submitted to Transport Scotland for review.

APPROVAL IN PRINCIPLE **FORM AIP3**

Order Reference .....

Scheme Identifier……

APPROVAL IN PRINCIPLE

(M&E Installation)

Name of Project _____

Name of Bridge or Structure _____

Structure Ref No _____

1. HIGHWAY DETAILS

1.1 Type of Road (from TD 27)

1.2 Permitted traffic speed

2. STRUCTURE DETAILS

2.1 Brief description of structure

2.2 Date of AIP for structure

3. GENERAL DESCRIPTION OF MECHANICAL AND ELECTRICAL INSTALLATION (M&E)

3.1 Proposed mode of operation of structure

3.2 Location of operating and control mechanism

3.3 Electrical power supply and distribution

3.4 Stand-by-power facilities (UPS etc.)

3.5 Design working life, whole life cost and sustainabi1ity considerations

4. OPERATIONAL DESIGN CRITERIA (As relevant)

4.1 Variable actions

4.2 Traffic actions

4.3 Snow actions

4.4 Wind actions

4.5 Thermal actions including temperature range.

4.6 Any Special actions not listed above (eg. ship impact)

4.7 List of relevant Safety Consultation documents

4.7.1 Additional relevant standards and publications

4.8 Proposed Departures relating to Departures from Standards given in 4.7 and 4.7.1

4.9 Proposed Departures relating to methods of dealing with aspects not covered by Standards in 4.7 and 4.7.1

5. BASIS OF OPERATION AND CONTROL

5.1 Normal operation conditions

5.2 Authorities consulted

5.3 State any special requirements imposed during liaison with such authorities

5.4 Describe communications system involved

5.5 Design requirements for emergency works testing and site operating conditions

5.6 Fail safe operation safety systems, failure and mode effect (FME) analysis

5.7 Arrangements for commissioning and handover to maintaining authority including relevant documentation, operators' manuals

6. PLANT ROOM

6.1 General layout

6.2 Drainage and associated pumping requirements

6.3 Plant room environment; heating, lighting, humidity, ventilation

6.4 Mechanical and electrical equipping

6.5 Security; intruder and fire alarm systems

6.6 Proposed fire fighting measures

7. DESCRIPTION OF INSPECTION AND MAINTENANCE ARRANGEMENTS

7.1 Proposals for inspection and maintenance of the moveable bridge structure or gantry are given in the AIP for the structure

7.2 Proposals for inspection and maintenance of M&E installation

7.3 Proposed documentation

7.4 Proposals for plant monitoring, data collection and management

8. CHECK

8.1 M&E installation to be Category 3

8.2 Name of proposed independent Checker

9. DRAWINGS AND DOCUMENTS

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

9.2 List of documents relating to inspection, maintenance and safe operation

10. THE ABOVE IS SUBMITTED FOR ACCEPTANCE

Signed .....

Name .....

Designer/Assessment* Team Leader

Engineering Qualifications .....

Name of Organisation .....

Date .....

(On behalf of the Operating Company)

Name …… Date .....

(Block Capitals)

11. THE ABOVE DEPARTURES FROM STANDARDS / ASPECTS FROM STANDARDS ARE REJECTED / AGREED

Signed .....

Chief Bridge Engineer

Name ..... Date .....
(Block Capitals)

12. THE ABOVE IS ACCEPTED SUBJECT TO THE AMENDMENTS AND CONDITIONS SHOWN BELOW

Signed .....

Name .....

(Block Capitals)

Position Held .....

Engineering Qualifications .....

Date .....

D = Design, A=Assessment * Delete as appropriate

MODEL CERTIFICATE TO BE USED BY THE OPERATING COMPANY

DESIGN INTERIM CERTIFICATE: STRUCTURES **CERTIFICATE No: DIC(S)……..**

Structure No.....

Structure Name..... **Scheme Identifier.....**

1. We hereby certify to the Scottish Ministers in respect of the design of the following further divided part of the Design or Design Element namely:

..... **(Name of further divided part of Structure)**

..... **(Name of Structure)**

that reasonable professional skill and care has been taken by us with a view to securing that the further divided part of the Design or Design Element:

(i) complies with the Scottish Ministers' Requirements

(ii) complies with Approval in Principle (AIP)

(iii) complies with the Manual of Contract Documents for Highway Works (MCHW)

(iv) has been accurately translated into the construction Drawings and bar bending schedules bearing the unique numbers listed below:

(v) shall not be detrimental to the whole Design or Design Element and shall not affect the completion of the Design Certificate(s).

We agree that the words and phrases herein, unless otherwise stated, have the same meaning as attributed to them in the Contract between the Scottish Ministers and the Operating Company.

Signed: ..... Firm: .....

DESIGNER (Team leader for Designer)

Name: ..... Date: .....

(Block Capitals)

Signed: ..... Firm: .....

(On behalf of the Operating Company)

Name: ..... Date: .....

(Block Capitals)

2. The certificate is accepted by the Scottish Ministers

Signed _____

Name _____

Position held _____

Engineering Qualifications _____

TAA _____

Date _____

MODEL OF CERTIFICATE TO BE USED BY THE OPERATING COMPANY

DESIGN CHECK INTERIM CERTIFICATE: STRUCTURES CERTIFICATE NO: DCIC(S).....

Structure No……

Structure Name…….. Scheme Identifier…….

1. We hereby certify to the Scottish Ministers in respect of the check of the following further divided part for the Design or Design Element namely:

..... (Name of further divided part of Structure)

..... (Name of Structure)

that reasonable professional skill and care has been taken by us in carrying out the independent Design check of the part of the Design or Design Element with a view to securing that the further divided part of the Design or Design Element:

(i) complies with the Scottish Ministers' Requirements.

(ii) complies with Approval in Principle (AIP)

(iii) complies with the Manual of Contract Documents for Highway Works (MCHW)

(iv) has been accurately translated into the construction Drawings and bar bending schedules bearing the unique numbers listed below:

(v) shall not be detrimental to the whole Design or Design Element and shall not affect the completion of the Check Certificate(s).

We agree that the words and phrases herein, unless otherwise stated, have the same meaning as attributed to them in the Contract between the Scottish Ministers and the Operating Company

Signed: ..... Firm: .....

CHECKER (Team leader for Checker)

Name: ..... Date: .....

(Block Capitals)

Signed: ..... Firm: .....

(On behalf of the Operating Company)

Name: ..... Date .....

(Block Capitals)

2. The certificate is accepted by the Scottish Ministers

Signed _____

Name _____

Position held _____

Engineering Qualifications _____

TAA _____

Date _____

MODEL OF CERTIFICATE TO BE USED BY THE OPERATING COMPANY

DESIGN CERTIFICATE: STRUCTURES **CERTIFICATE NO: DC(S).....**

Structure No…….

Structure Name…….. **Scheme Identifier…….**

1. We hereby certify to the Scottish Ministers in respect of the design of the following part of the Design or Design Element namely

.....

(Name of Structure)

that reasonable professional skill and care has been taken by us with a view to securing that the part of the Design or Design Element:

(i) complies with the Scottish Ministers' Requirements.

(ii) complies with Approval in Principle AIP [1] OR the following standards:

(iii) complies with the Manual of Contract Documents for Highway Works (MCHW)

(iv) has been accurately translated into the construction Drawings and bar bending schedules bearing the unique numbers listed below OR the assessed capacity of the structure is as follows[2]:

(v) shall not be detrimental to the whole Design or Design Element.

(vi) where required a Safety Audit Certificate for Stage *[2] *[3] is attached

We agree that the words and phrases herein, unless otherwise stated, have the same meaning as attributed to them in the Contract between the Scottish Ministers and the Operating Company

Signed: ..... Firm: .....

DESIGNER (Team leader for Designer)

Name: ..... Date: .....
(Block Capitals)

Engineering Qualifications[3] .....

Signed: ..... Firm: .....

(On behalf of the Operating Company)

Name: ..... Date: .....

(Block Capitals)

2. The Departures from Standard and additional criteria given in paragraph 1 are agreed[4]

3. The certificate is accepted by the Scottish Ministers

Signed _____

Name _____

Position held _____

Engineering Qualifications[5] _____

TAA _____

Date _____

Notes

1. List any Departures and additional methods, criteria or specification clauses.
2. Delete as appropriate
3. CEng MICE or CEng MIStructE
4. Delete as appropriate. Not permitted for Cat 0 or Cat 1 unless Transport Scotland consider that the Departure has little or no structural implication.
5. CEng MICE or CEng MIStructE

MODEL OF CERTIFICATE TO BE USED BY THE OPERATING COMPANY

DESIGN CHECK CERTIFICATE: STRUCTURES CERTIFICATE NO: DCC(S).....

Structure No……

Structure Name……. Scheme Identifier……

1. We hereby certify to the Scottish Ministers in respect of the check of the following part of the Design or Design Element namely

.....

(Name of Structure)

that reasonable professional skill and care has been taken by us in carrying out the independent Design check of the part of the Design or Design Element with a view to securing that the part of the Design or Design Element:

(i) complies with the Scottish Ministers' Requirements.

(ii) complies with Approval in Principle AIP [1] OR the following standards:

(iii) complies with the Manual of Contract Documents for Highway Works (MCHW)

(iv) has been accurately translated into the construction Drawings and bar bending schedules bearing the unique numbers listed below OR the assessed capacity of the structure is as follows[2]:

(iv) shall not be detrimental to the whole Design or Design Element.

We agree that the words and phrases herein, unless otherwise stated, have the same meaning as attributed to them in the Contract between the Scottish Ministers and the Operating Company

Signed: ..... Firm: .....

CHECKER (Team leader for Checker)

Name: ..... Date: .....
(Block Capitals)

Engineering Qualifications[3] .....

Signed: ..... Firm: .....

(On behalf of the Operating Company)

Name: ..... Date: .....
(Block Capitals)

2. The Departures from Standard and additional criteria given in paragraph 1 are agreed[4]

3. The certificate is accepted by the Scottish Ministers

Signed _____

Name _____

Position held _____

Engineering Qualifications[5] _____

TAA _____

Date _____

Notes

1. List any Departures and additional methods, criteria or specification clauses.
2. Delete as appropriate
3. CEng MICE or CEng MIStructE
4. Delete as appropriate. Not permitted for Cat 0 or Cat 1 unless Transport Scotland consider that the Departure has little or no structural implication.
5. CEng MICE or CEng MIStructE

MODEL OF CERTIFICATE TO BE USED BY THE OPERATING COMPANY

DESIGN INTERIM CERTIFICATE: EARTHWORKS CERTIFICATE NO: DIC(EW).....

Order Reference……

Scheme Identifier……

1. We hereby certify to the Scottish Ministers in respect of the design of the following further divided part of the Design or Design Element namely

.....……..

(Name of further divided part of the Earthworks)

.....……..

(Name of part of Earthworks or Earthworks Element)

that reasonable professional skill and care has been taken by us with a view to securing that the further divided part of the Design or Design Element:

(i) complies with the Scottish Ministers' Requirements.

(ii) has been accurately translated into the construction Drawings and other Design documents bearing the unique numbers listed below:

(iii) shall not be detrimental to the Whole Design or Design Element shall not affect the completion of the Design Certificate(s).

(iv) has been the subject of an interpretative geotechnical report and that the conclusions of that report have been taken into account in the Design or Design Element.

We agree that the words and phrases herein, unless otherwise stated, have the same meaning as attributed to them in the Contract between the Scottish Ministers and the Operating Company

Signed: ..... Firm: .....

DESIGNER (Team leader for Designer)

Name: ..... Date: .....

(Block Capitals)

Signed: ..... Firm: .....

(On behalf of the Operating Company)

Name: ..... Date: .....

(Block Capitals)

MODEL OF CERTIFICATE TO BE USED BY THE OPERATING COMPANY

DESIGN CHECK INTERIM CERTIFICATE: EARTHWORKS CERTIFICATE NO: DCIC(EW).....

Order Reference……..

Scheme Identifier…….

1. We hereby certify to the Scottish Ministers in respect of the check of the following further divided part of the Design or Design Element namely

.....……

(Name of further divided part of the Earthworks)

.....……..

(Name of part of Earthworks or Earthworks Element)

that reasonable professional skill and care has been taken by us in carrying out the independent Design check of the Design or Design Element (including the interpretative geotechnical report referred to in (iv) below) with a view to securing that the further divided part of the Design or Design Element:

(i) complies with the Scottish Ministers' Requirements

(ii) has been accurately translated into the construction Drawings and other Design documents bearing the unique numbers listed below:

(iii) shall not be detrimental to the whole Design or Design Element and shall not affect the completion of the Check Certificate(s)

(iv) has been the subject of an interpretative geotechnical report and that the conclusions of that report have been taken into account in the Design or Design Element.

We agree that the words and phrases herein, unless otherwise stated, have the same meaning as attributed to them in the Contract between the Scottish Ministers and the Operating Company

Signed: ..... Firm: .....

CHECKER (Team leader for Checker)

Name: ..... Date: .....

(Block Capitals)

Signed: ..... Firm: .....

(On behalf of the Operating Company)

Name: ..... Date: .....

(Block Capitals)

MODEL OF CERTIFICATE TO BE USED BY THE OPERATING COMPANY

DESIGN CERTIFICATE: EARTHWORKS **CERTIFICATE NO: DC(EW).....**

Order Reference.....

Scheme Identifier..……

1. We hereby certify to the Scottish Ministers in respect of the design of the following part of the Design or Design Element namely

.....

(Name of Earthworks or Earthwork's Element)

that reasonable professional skill and care has been taken by us with a view to securing that the part of the Design or Design Element:

(i) complies with the Scottish Ministers' Requirements.

(ii) has been accurately translated into the construction Drawings and other Design documents bearing the unique numbers listed below:

(iii) shall not be detrimental to the whole Design or Design Element.

(iv) has been the subject of an interpretative geotechnical report and that the conclusions of that report have been taken into account in the Design or Design Element.

We agree that the words and phrases herein, unless otherwise stated, have the same meaning as attributed to them in the Contract between the Scottish Ministers and the Operating Company

Signed: ..... Firm: .....

DESIGNER (Team leader for Designer)

Name: ..... Date: .....

(Block Capitals)

Signed: ..... Firm: .....

(On behalf of the Operating Company)

Name: ..... Date: .....

(Block Capitals)

MODEL OF CERTIFICATE TO BE USED BY THE OPERATING COMPANY

DESIGN CHECK CERTIFICATE: EARTHWORKS CERTIFICATE NO: DCC(EW).....

Order Reference .....

Scheme Identifier.……

1. We hereby certify to the Scottish Ministers in respect of the check of the following part of the Design or Design Element namely

.....……..

(Name of Earthworks or Earthworks Element)

that reasonable professional skill and care has been taken by us in carrying out the independent Design check of the Design or Design Element (including the interpretative geotechnical report referred to in (iv) below) with a view to securing that the part of the Design or Design Element:

(i) complies with the Scottish Ministers' Requirements.

(ii) has been accurately translated into the construction Drawings and other Design documents bearing the unique numbers listed below:

(iii) shall not be detrimental to the whole Design or Design Element.

(iv) has been the subject of an interpretative geotechnical report and that the conclusions of that report have been taken into account in the Design or Design Element.

We agree that the words and phrases herein, unless otherwise stated, have the same meaning as attributed to them in the Contract between the Scottish Ministers and the Operating Company

Signed: ..... Firm: .....

CHECKER (Team leader for Checker)

Name: ..... Date: .....

(Block Capitals)

Signed: ..... Firm: .....

(On behalf of the Operating Company)

Name: ..... Date .....

(Block Capitals)

MODEL OF CERTIFICATE TO BE USED BY THE OPERATING COMPANY

DESIGN INTERIM CERTIFICATE: ROAD RESTRAINT SYSTEMS CERTIFICATE NO: DIC(RRS)...

Order Reference ….....

Scheme Identifier……..

1. We hereby certify to the Scottish Ministers in respect of the design of the following further divided part of the Design or Design Element namely

.....……..

(Name of further divided part of Safety Road Restraint System or Element)

.....……..

(Name of part of Road Restraint System or Element)

that reasonable professional skill and care has been taken by us with a view to securing that the further divided part of the Design or Design Element:

(i) complies with the Scottish Ministers' Requirements.

(ii) has been accurately translated into the construction Drawings and other Design documents bearing the unique numbers listed below:

(iii) shall not be detrimental to the whole Design or Design Element and shall not affect the completion of the Design Certificate(s).

(iv) that all aspects of the Design or Design Element of the Road Restraint System on the Contract have been developed by the use of a risk assessment approach.

We agree that the words and phrases herein, unless otherwise stated, have the same meaning as attributed to them in the Contract between the Scottish Ministers and the Operating Company

Signed: ..... Firm: .....

DESIGNER (Team leader for Designer)

Name: ..... Date: .....

(Block Capitals)

Signed: ..... Firm: .....

(On behalf of the Operating Company)

Name: ..... Date: .....

(Block Capitals)

MODEL OF CERTIFICATE TO BE USED BY THE OPERATING COMPANY

DESIGN CHECK INTERIM CERTIFICATE: ROAD RESTRAINT SYSTEMS CERTIFICATE NO: DCIC(RRS).....

Order Reference .....

Scheme Identifier……

1. We hereby certify to the Scottish Ministers in respect of the check of the following further divided part of the Design or Design Element namely

.....……..

(Name of further divided part of Road Restraint System or Element)

.....……..

(Name of part of Road Restraint System or Element)

that reasonable professional skill and care has been taken by us in carrying out the independent Design check of the Design or Design Element with a view to securing that the further divided part of the Design or Design Element:

(i) complies with the Scottish Ministers' Requirements.

(ii) has been accurately translated into the construction Drawings and other design documents bearing the unique numbers listed below:

(iii) shall not be detrimental to the whole Design or Design Element and shall not affect the completion of the Check Certificate(s).

(iv) that all aspects of the Design or Design Element of the Road Restraint System on the Contract have been developed by the use of a risk assessment approach.

We agree that the words and phrases herein, unless otherwise stated, have the same meaning as attributed to them in the Contract between the Scottish Ministers and the Operating Company

Signed: ..... Firm: .....

CHECKER (Team leader for Checker)

Name: ..... Date: .....

(Block Capitals)

Signed: ..... Firm: .....

(On behalf of the Operating Company)

Name: ..... Date: .....

(Block Capitals)

MODEL OF CERTIFICATE TO BE USED BY THE OPERATING COMPANY

DESIGN CERTIFICATE: ROAD RESTRAINT SYSTEMS CERTIFICATE NO: DC(RRS).....

Order Reference .....

Scheme Identifier…..……

1. We hereby certify to the Scottish Ministers in respect of the design of the following part of the Design or Design Element namely

.....……...

(Name of Part of Road Restraint System or Element)

that reasonable professional skill and care has been taken by us with a view to securing that the part of the Design or Design Element:

(i) complies with the Scottish Ministers' Requirements.

(ii) has been accurately translated into the construction Drawings and other Design documents bearing the unique numbers listed below:

(iii) shall not be detrimental to the whole Design or Design Element and shall not affect the completion of the Design Certificate(s).

(iv) that all aspects of the Design or Design Element of the Road Restraint System on the Contract have been developed by the use of a risk assessment approach.

iv) where required a Safety Audit Certificate for Stage *[2] *[3] is attached

* *delete as appropriate*

We agree that the words and phrases herein, unless otherwise stated, have the same meaning as attributed to them in the Contract between the Scottish Ministers and the Operating Company

Signed: ..... Firm: .....

DESIGNER (Team leader for Designer)

Name: ..... Date: .....

(Block Capitals)

Signed: ..... Firm: .....

(On behalf of the Operating Company)

Name: ..... Date: .....

(Block Capitals)

MODEL OF CERTIFICATE TO BE USED BY THE OPERATING COMPANY

DESIGN CHECK CERTIFICATE: ROAD RESTRAINT SYSTEMS CERTIFICATE NO: DCC(RRS)..

Order Reference .....

Scheme Identifier…..……..

1. We hereby certify to the Scottish Ministers in respect of the check of the following part of the Design or Design Element namely

.....……...

(Name of Part of the Road Restraint System or Element)

that reasonable professional skill and care has been taken by us in carrying out the independent Design check of the part of the Design or Design Element with a view to securing that the part of the Design or Design Element:

(i) complies with the Scottish Ministers' Requirements.

(ii) has been accurately translated into the construction Drawings and other Design documents bearing the unique numbers listed below:

(iii) shall not be detrimental to the whole Design or Design Element

(iv) that all aspects of the Design or Design Element of the Road Restraint System on the Contract have been developed by the use of a risk assessment approach.

We agree that the words and phrases herein, unless otherwise stated, have the same meaning as attributed to them in the Contract between the Scottish Ministers and the Operating Company

Signed: ..... Firm: .....

CHECKER (Team leader for Checker)

Name: ..... Date: .....

(Block Capitals)

Signed: ..... Firm: .....

(On behalf of the Operating Company)

Name..... Date ……...

(Block Capitals)

MODEL OF CERTIFICATE TO BE USED BY THE OPERATING COMPANY

DESIGN INTERIM CERTIFICATE: CERTIFICATE NO: DIC(*).....

OTHER PART OF DESIGN OR DESIGN ELEMENT

Order Reference .....

Scheme Identifier…..……

1. We hereby certify to the Scottish Ministers in respect of the design of the following part of the Design or Design Element namely:

.....……..

(Name of further divided part of Design or Design Element)

.....……

(Name of Part of the Design or Design Element)

that reasonable professional skill and care has been taken by us with a view to securing that the further divided part of the Design or Design Element:

(i) complies with the Scottish Ministers' Requirements.

(ii) has been accurately translated into the construction Drawings and other Design documents bearing the unique numbers listed below:

(iii) shall not be detrimental to the whole Design or Design Element and shall not affect the completion of the Design Certificate.

We agree that the words and phrases herein, unless otherwise stated, have the same meaning as attributed to them in the Contract between the Scottish Ministers and the Operating Company

Signed: ..... Firm: .....

DESIGNER (Team leader for Designer)

Name: ..... Date: .....

(Block Capitals)

Signed: ..... Firm: .....

(Operating Company)

Name: ..... Date: .....

(Block Capitals)

* Insert Description of part of Design or Design Element:

Accommodation Works	(A)	Lighting and Electrical Works	(L)
Drainage	(D)	Road Pavements	(P)
Environmental and Landscaping	(E)	Road Layout	(RL)
Earthworks	(EW)	Signs and Road Markings	(SRM)
Fencing and Environmental Barriers	(F)	Piling	(X)
Kerbs, Footways and Paved Areas	(K)	Any other relevant parts of Design or Design Element	(Y)

MODEL OF CERTIFICATE TO BE USED BY THE OPERATING COMPANY

DESIGN CHECK INTERIM CERTIFICATE: CERTIFICATE NO: DCIC(*).....

OTHER PART OF DESIGN OR DESIGN ELEMENT

Order Reference .....

Scheme Identifier……..

1. We hereby certify to the Scottish Ministers in respect of the check of the following further divided part of the Design or Design Element namely:

.....……...

(Name of further divided part of Design or Design Element)

.....……

(Name of Part of the Design or Design Element)

that reasonable professional skill and care has been taken by us in carrying out the independent Design check of the further divided part of the Design or Design Element with a view to securing that the further divided part of the Design or Design Element:

(i) complies with the Scottish Ministers' Requirements.

(ii) has been accurately translated into the construction Drawings and other Design documents bearing the unique numbers listed below:

(iii) shall not be detrimental to the whole Design or Design Element and shall not affect the completion of the Design Certificate.

We agree that the words and phrases herein, unless otherwise stated, have the same meaning as attributed to them in the Contract between the Scottish Ministers and the Operating Company

Signed: ..... Firm: .....

CHECKER (Team leader for Checker)

Name: ..... Date: .....

(Block Capitals)

Signed: ..... Firm: .....

(Operating Company)

Name: ..... Date: .....

(Block Capitals)

* Insert Description of part of Design or Design Element:

Accommodation Works	(A)	Lighting and Electrical Works	(L)
Drainage	(D)	Road Pavements	(P)
Environmental and Landscaping	(E)	Road Layout	(RL)
Earthworks	(EW)	Signs and Road Markings	(SRM)
Fencing and Environmental Barriers	(F)	Piling	(X)
Kerbs, Footways and Paved Areas	(K)	Any other relevant parts of Design or Design Element	(Y)

MODEL OF CERTIFICATE TO BE USED BY THE OPERATING COMPANY

DESIGN CERTIFICATE: **CERTIFICATE NO: DC(*).....**

OTHER PART OF DESIGN OR DESIGN ELEMENT

Order Reference .....

Scheme Identifier……

1. We hereby certify to the Scottish Ministers in respect of the design of the following part of the Design or Design Element namely:

.....

(Name of Part of the Design or Design Element)

that reasonable professional skill and care has been taken by us with a view to securing that the part of the Design or Design Element:

(i) complies with the Scottish Ministers' Requirements.

(ii) has been accurately translated into the construction Drawings and other Design documents bearing the unique numbers listed below:

(iii) shall not be detrimental to the whole Design or Design Element.

(iv) where required a Safety Audit Certificate for Stage **[2] **[3] is attached

We agree that the words and phrases herein, unless otherwise stated, have the same meaning as attributed to them in the Contract between the Scottish Ministers and the Operating Company

Signed: ..... Firm: .....

DESIGNER (Team leader for Designer)

Name: ..... Date: .....

(Block Capitals)

Signed: ..... Firm: .....

(Operating Company)

Name: ..... Date: .....

(Block Capitals)

* *Insert Description of part of Design or Design Element*:

** *delete as appropriate*

Accommodation Works	(A)	Lighting and Electrical Works	(L)
Drainage	(D)	Road Pavements	(P)
Environmental and Landscaping	(E)	Road Layout	(RL)
Earthworks	(EW)	Signs and Road Markings	(SRM)
Fencing and Environmental Barriers	(F)	Piling	(X)
Kerbs, Footways and Paved Areas	(K)	Any other relevant parts of Design or Design Element	(Y)

MODEL OF CERTIFICATE TO BE USED BY THE OPERATING COMPANY

DESIGN CHECK CERTIFICATE: **CERTIFICATE NO: DCC(*).....**

OTHER PART OF DESIGN OR DESIGN ELEMENT

Order Reference .....

Scheme Identifier……..

1. We hereby certify to the Scottish Ministers' in respect of the check of the following part of the Design or Design Element namely:

.....……..

(Name of Design Element)

that reasonable professional skill and care has been taken by us in carrying out the independent Design check of the part of the Design or Design Element with a view to securing that the part of the Design or Design Element:

(i) complies with the Scottish Ministers' Requirements.

(ii) has been accurately translated into the construction Drawings and other Design documents bearing the unique numbers listed below:

(iii) shall not be detrimental to the whole Design or Design Element.

We agree that the words and phrases herein, unless otherwise stated, have the same meaning as attributed to them in the Contract between the Scottish Ministers and the Operating Company

Signed: ..... Firm: .....

CHECKER (Team leader for Checker)

Name: ..... Date: .....

(Block Capitals)

Signed: ..... Firm: .....

(Operating Company)

Name: ..... Date: .....

(Block Capitals)

* Insert Description of part of Design or Design Element:

Accommodation Works	(A)	Lighting and Electrical Works	(L)
Drainage	(D)	Road Pavements	(P)
Environmental and Landscaping	(E)	Road Layout	(RL)
Earthworks	(EW)	Signs and Road Markings	(SRM)
Fencing and Environmental Barriers	(F)	Piling	(X)
Kerbs, Footways and Paved Areas	(K)	Any other relevant parts of Design or Design Element	(Y)

MODEL OF CERTIFICATE TO BE USED BY THE OPERATING COMPANY

COMBINED DESIGN AND DESIGN CHECK CERTIFICATE: CERTIFICATE NO: DC/DCC….

Scheme:…….. Order Reference……

Scheme Identifier……

1. We hereby certify to the Scottish Ministers in respect of the design and design check of the following part of the Design or Design Element namely:

- ❑ Accommodation Works (A)
- ❑ Road Restraint Systems (B)
- ❑ Drainage (D)
- ❑ Environmental and Landscaping (E)
- ❑ Earthworks (EW)
- ❑ Fencing and Environmental Barriers (F)
- ❑ Kerb, Footways and Paved Areas (K)
- ❑ Lighting and Electrical Works (L)
- ❑ Road Pavements (P)
- ❑ Road Layout (RL)
- ❑ Signs and Road Markings (SRM)
- ❑ Piling (X)
- ❑ Other (Y)

that reasonable professional skill and care has been taken by us with a view to securing that the part of the Design or Design Element:

(i) complies with the Scottish Ministers' Requirements.

(ii) has been accurately translated into the construction Drawings and other Design documents, where applicable, bearing the unique number contained in the Certificate number above.

(iii) is not detrimental to the whole Design or Design Element.

(iv) where applicable to earthworks (EW), has been the subject of an interpretative geotechnical report and that the conclusions of that report have been taken into account in the Design or Design Element.

(v) where applicable to road restraint systems (B), that all aspects of the Design or Design Element of the road restraint system on the Contract have been developed by the use of a risk assessment approach.

(vi) where required a Safety Audit Certificate for Stage *[2] *[3] is attached

** delete as appropriate*

We agree that the words and phrases herein, unless otherwise stated, have the same meaning as attributed to them in the Contract between the Scottish Ministers and the Operating Company.

Signed: ..... Firm: .....

DESIGNER (Team leader for Designer)

Name: ..... Date: .....

(Block Capitals)

Signed: ..... Firm: .....

CHECKER (Team leader for Checker)

Name: ..... Date: .....

(Block Capitals)

Signed: ..... Firm: .....

(Operating Company)

Name: ..... Date: .....

(Block Capitals)

To be inserted as Appendix to:

Design Certificate or the Combined Design and Design Check Certificate

MODEL OF CERTIFICATE TO BE USED BY THE OPERATING COMPANY

ROAD SAFETY AUDIT CERTIFICATE **CERTIFICATE NO: RSAC.....**

Scheme: …… **Order Reference .....**

Scheme Identifier……

Form of Certificate to be used by the Designer for certifying that a Road Safety Audit has been carried out in accordance with Schedule 1.

The Design for the Scheme has been the subject of a Road Safety Audit in accordance with Stage *[2] *[3] of the Design Manual for Roads and Bridges Standard HD 19 or equivalent and we certify that all recommendations agreed or recommended by the road safety auditors have been incorporated in the Design.

* *delete as appropriate*

Signed: ..... Firm: .....

Lead Road Safety Auditor

Name: ..... Date: .....

(Block Capitals)

Signed: ..... Firm: .....

(Operating Company)

Name: ..... Date: .....

(Block Capitals)

MODEL OF CERTIFICATE TO BE USED BY THE OPERATING COMPANY

DESIGN CONSTRUCTION COMPLETION CERTIFICATE **CERTIFICATE No: DCComp…..**

(For Works Contracts and Operations executed by Operating Company)

(Issued upon completion of identified stage/element of the Operations/Works)

Order Reference ……..

Scheme Identifier …….

We hereby certify to the Scottish Ministers in respect of the construction of the following part of the Design or Design Element:

…….

(Name of Design or Design Element)

that reasonable professional skill and care has been taken by us in supervising the construction and completion of the Design or Design Element with a view to securing that the part of the Design or Design Element:

(i) complies with the Scottish Ministers Requirements

(ii) has been constructed in accordance with the Design or Design Element.

We agree that the words and phrases herein, unless otherwise stated, have the same meaning as attributed to them in the Contract between the Scottish Ministers and the Operating Company.

Signed: ..... Firm: .....

(Operating Company)

Name: ..... Date: .....

(Block Capitals)

MODEL OF CERTIFICATE TO BE USED BY THE OPERATING COMPANY

CONSTRUCTION COMPLETION CERTIFICATE **CERTIFICATE No: CCompC …..**

(For Operations executed by Operating Company)

(Issued upon substantial completion of the Operations)

Order Reference ……..

Scheme Identifier …….

Scheme Name: ……..

For Operating Company Orders

We hereby certify to the Scottish Ministers we have completed our obligations in respect of the above referenced Scheme and have executed Operations as required by the Order referenced above.

We agree that the words and phrases herein, unless otherwise stated, have the same meaning as attributed to them in the Contract between the Scottish Ministers and the Operating Company.

Signed: ..... Firm: .....

(Operating Company)

Name: ..... Date: .....

(Block Capitals)

MODEL OF CERTIFICATE TO BE USED BY THE OPERATING COMPANY

CONSTRUCTION COMPLETION CERTIFICATE FOR SUPERVISION OF WORKS

CERTIFICATE No: CCSupW .....

(Issued on substantial completion of the Works)

Order Reference.....

Scheme Identifier…..……..

Scheme Title: ……

1. We agree that the words and phrases herein, unless otherwise stated, have the same meaning as attributed to them in the Contract between the Scottish Ministers and the Operating Company.
2. We hereby certify to the Scottish Ministers that we have supervised the construction and completion of the Works as defined in the Works Contract to which this Certificate relates and that we have exercised reasonable professional skill and care with a view to securing that such Works have been constructed in accordance with the requirements of the Design as set out in such Works Contract.

   In our opinion the Works Contractor completed the Works under the Works Contract to which this Certificate relates on

   <*date*> ……

   Signed: ..... Firm.....

   (On behalf of the Operating Company)

   Name: ..... Date: .....

MAINTENANCE CERTIFICATE

(For Operations executed by Operating Company)

(Issued upon completion maintenance period of the Operations)

CERTIFICATE No: MC …..

Order Reference ……..

Scheme Identifier …….

For Operations

We agree that the words and phrases herein, unless otherwise stated, have the same meaning as attributed to them in the Contract between the Scottish Ministers and the Operating Company.

In our opinion we have completed our obligations to construct, complete and maintain the Operations under the Order to which this Certificate relates

Signed: ..... Firm: .....

(Operating Company)

Name: ..... Date: .....

(Block Capitals)

MODEL OF CERTIFICATE TO BE USED BY THE OPERATING COMPANY

MAINTENANCE CERTIFICATE (SUPERVISION OF WORKS)

(Issued at end of maintenance period)

CERTIFICATE No: MCSupW…….

Order Reference.....

Scheme Identifier.……

Scheme Title: ……

1. We agree that the words and phrases herein, unless otherwise stated, have the same meaning as attributed to them in the Contract between the Scottish Ministers and the Operating Company.

   We hereby certify to the Scottish Ministers that we have supervised the Works as defined in the Works Contract during the period(s) of maintenance for such Works Contract to which this Certificate relates and that we have exercised reasonable professional skill and care with a view to securing that such Works have been completed in accordance with such Works Contract.

   In our opinion the Works Contractor completed his obligations to construct complete and maintain the Works under the Works Contract to which this Certificate relates on

   <*date*> ……

   Signed: ..... Firm.....

   (On behalf of the Operating Company)

   Name: ..... Date: .....

MODEL OF CERTIFICATE TO BE USED BY THE OPERATING COMPANY

DESIGN DEFECTS CORRECTION CERTIFICATE **CERTIFICATE No: DesDCC …….**

Order Reference ……..

Scheme Identifier ……

Scheme Title: …….

We hereby certify to the Scottish Ministers in respect of the Defects and Non-Conformances to the following part of the Design or Design Element:

…….

(Name of Design or Design Element)

that reasonable professional skill and care has been taken by us in supervising the correction of the Defects and Non-Conformances to that part of the Design or Design Element with a view to securing that the Defects and Non-Conformances have been corrected and that part of the Design or Design Element now complies with the Scottish Ministers' Requirements and has now been constructed in accordance with the Design or Design Element.

We agree that the words and phrases herein, unless otherwise stated, have the same meaning as attributed to them in the Contract between the Scottish Ministers and the Operating Company.

Signed: ..... Firm: .....

(Operating Company)

Name: ..... Date: .....

(Block Capitals)

MODEL OF CERTIFICATE TO BE USED BY THE OPERATING COMPANY

CONSULTATION CERTIFICATE **CERTIFICATE NO: ConsultC.....**

Order Reference…….

Scheme Identifier……

Scheme Title .....

Route .....

CONSULTATION WITH ..... (Name of Consultee)

1. We hereby certify to the Scottish Ministers in respect of:

.....
(Name of part of Design or Design Element)

that we have consulted with .....(Name of Consultee) and have ascertained that they have no objections to the part of Design or Design Element as described on the construction Drawings listed in an attachment.

We agree that the words and phrases herein, unless otherwise stated, have the same meaning as attributed to them in this Contract between the Scottish Ministers and the Operating Company.

Signed: .....

Firm .....
(On behalf of Operating Company)

Name: ..... Date: .....
(Block Capitals)

2. LIST OF CONSTRUCTION DOCUMENTS

……..

3. DECLARATION BY …….. (Name of Consultee)

On behalf of ……. (Name of Consultee) I confirm that
(i) consultations referred to above have been completed as indicated above.

(ii) ……. (Name of Consultee) has no objections to the Design or Design Element as described on the Drawings and documents listed in part 2 of this Consultation Certificate, and

(iii) the Drawings and documents listed in part 2 of this Consultation Certificate meet all known requirements of the Consultee.

Signed ……

Name …….
(Block Capitals)
duly authorised to sign on behalf of ……. (Name of Consultee)

Date: …….

MODEL OF CERTIFICATE TO BE USED BY THE OPERATING COMPANY

VARIATION ORDER / CHANGE INSTRUCTION Form Number CON VO/CI…….

OPERATING COMPANY	Unit	.....
	Scheme ID	.....
	Scheme Name	.....
	Sheet No ……OF	
Operating Company Address	**VARIATION ORDER/CHANGE INSTRUCTION No:**	
	TO:	

You are instructed to carry out the following variations/changes in accordance with the Contract.

.....
.....
.....
.....
.....
.....
.....
.....
.....
.....
.....
.....
.....
.....
.....

To include Site Instruction Reference (where appropriate) and Method of Payment

Signed: ..... Firm.....

(On behalf of the Operating Company)

Name: ..... Date: .....

MODEL OF CERTIFICATE TO BE USED BY THE OPERATING COMPANY

DEPARTURE FROM STANDARDS **CERTIFICATE No: DfS(S)…..**

(Bridges and other Highway Structures)

APPLICANT: ……

PROJECT TITLE: ……

DEPARTURE NO: ……

STRUCTURE REF: ……

SUBMISSION DATE: ……

1. List of Supporting Documentation

Standards:

Drawings:

Other:

2. Description of Proposed Departure

(include details of DMRB Standards and clause numbers which are being departed from)

Proposed Departure:

Clauses Being Departed From:

- Contract Version of Manual Contract for Highway Works
- Contract Version of Design Manual for Roads and Bridges
- Contract Employers' Requirements
- Other

3. Designer / Assessor justification

(include reasons why existing DMRB Standards are inappropriate)

4. Cost Implications:

(include an estimate of cost savings to the Scottish Executive as well as the effect on future maintenance costs)

5. Applicant Design Team Leader Declaration:

I declare that reasonable professional skill and care have been exercised in the preparation of this departure submission.

Signed: ..... Firm: .....

Name: .....

(Block Capitals with Engineering Qualifications)

Date: .....

6. Transport Scotland Bridges Branch - comments and recommendations:

.....

.....

.....

.....

.....

.....

.....

Signed: .....

Name: .....

(Block Capitals with Engineering Qualifications)

Date: .....

7. Transport Scotland Chief Bridge Engineer recommendation:

The above Departure is **approved / rejected** *(Delete as appropriate)*

Signed: .....

Name: .....
(Block Capitals with Engineering Qualifications)

Date: .....

MODEL OF CERTIFICATE TO BE USED BY THE OPERATING COMPANY

DEPARTURE FROM STANDARDS **CERTIFICATE No: DfS(R)…..**

(Roads & Highways)

APPLICANT: ……

PROJECT TITLE: ……

DEPARTURE NO: ……

SUBMISSION DATE: ……

PROJECT DETAILS	
General description of project	*[Realignment, new road, value added maintenance etc.]*
Route Strategy	*[Details of the Scottish Executive's current strategy with respect to the route affected by the proposed Departure from Standard. Applicants should seek guidance from the relevant Scottish Executive Project Manager where necessary]*
Road Category & Type	*[Refer to TD9]*
Proposed Carriageway Cross Section	*[Carriageway, lane, verge, central reserve, footpath widths etc.]*
Design Speed Proposed	*[Add Design Speed identified in accordance with TD9/93]*
Future Traffic Flows & Composition	*[Project Details for requirements]*

DESCRIPTION OF DEPARTURE	
Location and Chainage	*[eg. Junction of A8000/B8000, CH 1000 to CH 1050]*
Departure Type	*[eg. Stopping Sight Distance]*
DMRB Reference	*[Volume. Section. Part paragraph No.]*
Required Standard	*[Identify Desirable Minimum Standard]*
Standard Provided	*[Identify Standard being provided and how it relates to the Desirable Minimum Standard]*
Associated Departures or Relaxations	*[Identify any other Departures or Relaxations included within the proposed project that interact with the Departure being considered]*
Drawing Nos.	*[Add Drawing Reference Numbers. Refer to Table 2.3.1 for the minimum No./scale of Drawings to be provided]*

JUSTIFICATION	
Detailed Justification	*[Justification for requirements]*
Safety Implications	*[Safety Implications for requirements]*
Structural Integrity	*[Structural Integrity for requirements]*

ESSENTIAL COMPENSATORY MEASURES	
Compensatory Measures	*[Essential Compensatory Measures for requirements]*

signed for and on behalf of The Scottish Ministers

by ……...Roy Brannen…….

on …..…… December 2014……

at ……Glasgow……...……

…….
Authorised Signatory

signed for and on behalf of AMEY LG Limited

by

……...……

on ……..… December 2014……

at ……Glasgow……...…..

……...…
Director/Company Secretary/
Authorised Signatory*