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[NR/L3/CIV/140/10N](#) Issue 2

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MODEL CLAUSES FOR CIVIL ENGINEERING WORKS

SECTION 10

GENERAL

NOTES TO SPECIFIER:

These notes do not form part of the Specification.

General

10.1

This Section should be regarded as a helpful "framework" to be adapted as appropriate for the individual Contract.

In drafting this Section, it has been assumed that the Contract will involve possessions with traditional Resident Engineer supervision. In other circumstances, much of the content may not be applicable and additional matters may need to be included.

Matters covered elsewhere in Contract documentation

10.2

Section 10: General includes both technical and commercial requirements. A number of the requirements specified in this Section may also be specified elsewhere within Contract documentation, such as the Particular Conditions of Contract, Model Form of Tender, Preliminaries, or Technical Workslope Technical Module - General Requirements. In such instances the relevant Model Clauses in Section 10: General should be excluded in the Contract documentation, so that there is no duplication or conflict between the different parts of the Contract documentation. In particular, preliminaries in the Model Form of Tender and Technical Workslope Technical Module - General Requirements should be reviewed to ensure that there are no duplications or omissions.

The commercial requirements given in Section 10: General are also specified in the Model Form of Tender as model preliminaries. Accordingly if a particular Model Clause from Section 10 is included in the Contract Form of Tender, the corresponding Clause in Section 10 should be excluded.

Similarly, the general technical requirements in Section 10: General have been copied into the Technical Workslope Technical Module - General Requirements but have been reformatted to fit Technical Workscopes and refer to Contract data sheets rather than using Section 10 as a Particular Specification. Therefore, if a particular Model Clause from Section 10 is included in a Contract Technical Workslope Technical Module - General Requirements, the corresponding Clause in Section 10 should be excluded.



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- Definitions** **10.3** *The definitions listed in Clause 10.003 assume that the definitions listed in NR/SP/CPR/008 Network Rail Contract Requirements - Safety, are incorporated in the Contract.*
- The definitions listed in Clause 10.003 assume that the definitions given in the ICE Conditions of Contract (7th Edition) are incorporated into the Contract. Where another form of Contract is to be used the Specifier should check that the definitions in the ICE Conditions of Contract (7th Edition) are included in the particular Contract and include any relevant omissions in Clause 10.003.*
- Legal requirements** **10.4** *Specific references that require the Contractor to comply with Regulations have not been included in the Specification, as compliance is incumbent upon the Contractor by law and such legal obligations, therefore, take precedence over any Contract Clause.*
- Loading upon sleepers** **10.5** *The load restriction on concrete sleepers specified in Clause 10.050 is derived from the maximum axle load of 25 tonnes upon the rail distributed in accordance with GC/RT5112: 'Loading Requirement for Bridges', which gives a maximum wheel load of 6 tonnes, and a maximum load on a sleeper of 12 tonnes.*
- The 3 tonne restriction is the limiting load on the sleeper which produces the same UDL under the sleeper as that from the 6 tonne wheel load.*
- The load restriction on timber sleepers assumes that the sleepers are hard, sound and durable, and in good condition. If this is not the case the Clause should be amended to prevent loads being applied to the timber sleepers but rather that any load is applied direct to the ballast.*
- Site accommodation, equipment, etc** **10.6** *Where the Employer's Representative is not a direct employee of Network Rail, consideration should be given to the facilities being provided by the Consultants, and included within their remit, in which case such Clauses should be deleted, or amended as applicable.*

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SECTION 10

GENERAL

Section and Clause referencing

10/1

The Appendices to the following Model Clauses are included in the Specification:

(10.001)

Note to specifier

The Specifier shall list all of the Sections of the Model Clauses for which Appendices have been produced and which are included in this Specification. The complete list of Sections for which Appendices have been produced is as follows:

10	General
21	Aerial Surveys
22	Land and Trackwork Surveys
23	Structural Repair Survey
25	Presentation of Survey Data and Information
30 - 35	Ground Investigation
40	Demolition and Site Clearance
50 - 53	Earthworks and Excavations
70 - 79	Piling and Embedded Retaining Walls
80	Structural Concrete
83	Structural Concrete Repairs
85	Concrete for Ancillary Purposes
90	Steelwork (BS5400)
93	Structural Steelwork Repairs
100	Bearings
100GN	Bridge Bearings Guidelines for Designers
110 - 115	Waterproofing
120	General Requirements for Bridge Installation Methods and Temporary Works
121	Bridge Installation by Sliding or Rolling
122	Bridge Installation by Large Capacity Crane
123	Bridge Installation Using Self-Propelled Lifting Vehicles
124	Temporary Works Tunnels Constructed Using a Shield
125	Bridge Installation by Thrust Boring
126	Temporary Bridges
130 - 134	Inspection of New Fabricated Steelwork, Precast Concrete, Protective Treatment and Waterproofing
140, 141	Steelwork (BS 5950)
150	Brickwork, Blockwork and Masonry
153	Brickwork and Masonry Repairs



Documents

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160 - 164	Structural Timber
160GN	Structural Timber Guidance Notes
170 - 175	Protective Treatment
176	Protective Treatment Tables
180 - 182	Building and Structure Drainage
185 - 186	Track Drainage
190 - 191	External Service Ducts and Cable Toughing
200 - 204	Roads and Paving
210	Permanent Way - General
211	Permanent Way Design
212	Installation of New and Renewal of Existing Permanent Way
213	Permanent Way Acceptance Standards
214	Inspection of Permanent Way
215	Maintenance of Permanent Way
216	Permanent Way Materials
217	Construction Standards for Permanent Way
218	Permanent Way Small Plant, Tools and Equipment
219	Permanent Way Ancillary Items
220	Permanent Way Incident Management
221	Permanent Way for Bridgeworks
225	Permanent Way Particular Specification (Plain Line Renewals)
226	Permanent Way Particular Specification (S&C Renewals)
227	Particular Specification Permanent Way for Bridgeworks
230	General Requirements for Level Crossings
230GN	Level Crossings Guidance Notes for Specifiers
231	Public Vehicular Level Crossings
232	Occupation and Accommodation Level Crossings
233	Footpath, Bridleway and Other Minor Types of Level Crossing
240	Fencing and Gates
250 - 253	Landscaping
255 - 257	Management of Lineside Vegetation

Note to specifier

Include and delete as appropriate

Scope of the Contract **10/2**

The Works comprise:

.....
.....

Permanent Way works as described in...

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- i) Section 225: Permanent Way Particular Specification (Plain Line Renewals);
- ii) Section 226: Permanent Way Particular Specification (S&C Renewals);
- iii) Section 227: Permanent Way Particular Specification for Bridgeworks

Note to specifier

*Include and delete as appropriate.
The above paragraphs should be completed for all types of Contract Specifications except track renewals for which the paragraphs below are required, completed as necessary.*

For track renewals

The Works comprise approximately miles of varying types of track renewals at number individual Sites as described in:

- i) Section 225: Permanent Way Particular Specification (Plain Line Renewals);
- ii) Section 226: Permanent Way Particular Specification (S&C Renewals);
- iii) Section 227: Permanent Way Particular Specification for Bridgeworks.

Note to specifier

Include and delete as appropriate.

The Works include the design and/or construction of plain line and/or switches and crossings together with associated work to signalling equipment, work to a.c. or d.c. electrification equipment, as applicable, switch heating work to switches and crossings (S&C), and ancillary work such as walkways and track drainage, all as described in:

- i) Section 225: Permanent Way Particular Specification (Plain Line Renewals);
- ii) Section 226: Permanent Way Particular Specification (S&C Renewals);
- iii) Section 227: Permanent Way Particular Specification for Bridgeworks.

(10.004)

Note to specifier

Include and delete as appropriate.

**Works by others 10/3
not included in
the Contract**

During the period of the Contract, parts of the Site and adjacent areas will be occupied by Network Rail, and/or other contractors carrying out the following works which are not included in the Contract:

(10.006)

Note to specifier

Insert or delete as appropriate.

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Location of the Site **10/4**

The location of the Site is

.....

Ordnance Survey Grid Reference

.....

Alternative 1

The boundaries of the Site are shown on the Contract Drawings listed below:

Note to specifier

List Drawings as appropriate.

Alternative 2

The boundaries of the Site are as follows:

(10.007)

Note to specifier

Where not shown on the Contract Drawings, insert details.

Site conditions **10/5**

The Contractor's attention is drawn to the following conditions on Site:

The shall be in operation during the whole period of the Contract and the Works shall be carried out in a manner that causes the minimum of interference with the safe working of the and no interference with the operational use of the adjacent tracks.

Power lines cross the Site and in case of an emergency affecting such power lines shall be contacted.

Note to specifier

The above paragraph is to be used when the National Grid electrical supply crosses the Site, and is not to be used to indicate that a.c. electrification overhead line equipment is present.

The Contractor's attention is drawn to the nature of the Site(s) and the surroundings as described in:

- i) Section 225: Permanent Way Particular Specification (Plain Line Renewals);
- ii) Section 226: Permanent Way Particular Specification (S&C Renewals);
- iii) Section 227: Permanent Way Particular Specification for Bridgeworks.

Note to specifier

Include and delete as appropriate.

The Contractor's attention is drawn to the position of the Works in relation to: works being carried out by others; the existing structures; the tracks which shall be in operational use throughout the Contract period; the requirements for road, pedestrian or other traffic; and the requirement that all authorised walking routes shall be kept unobstructed and available at all times.