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2.12 FENCING2.12.1 GENERAL2.12.1.1 **Description**

Fencing shall consist of supplying and erecting wire fence, gates and related appurtenances of the class or classes specified, in accordance with these specifications and in conformance with the dimensions, details and requirements shown on the plans or as directed by the Consultant.

Where specified, existing fences shall be taken down and removed or re-erected to standards approved by the Consultant.

2.12.1.2 **Classification of Fence**

Fencing will be classified according to type as follows:

Class A: 3 barbed wires with wooden posts at 5 m maximum spacing (Dwg. CB6-2.12M1)

Class B: 4 barbed wires with wooden posts at 3.75 m maximum spacing (Dwg. CB6-2.12M2)

Class C: 2 barbed wires and 813 mm paige wire with wooden posts (Dwg. CB6-2.12M3)

Class D: 2 barbed wires and 914 mm paige wire with wooden posts (Dwg. CB6-2.12M4)

Class E: 2 barbed wires and 1067 mm paige wire with wooden posts (Dwg. CB6-2.12M5)

Class F: 2134 mm paige wire with wooden posts (Dwg. CB6-2.12M7)

Class G: 4 barbed wires with wooden posts at 5 m maximum spacing (Dwg. CB6-2.12M8)

Details of each classification are shown on the drawings. The use of alternative Class B fencing as shown on Drawings CB6-2.12M2A and CB6-2.12M11 will be allowed only when specified or approved by the Consultant.

2.12.2 MATERIALS

The Contractor shall supply all materials for new fencing, including posts, wire, staples, and gates.

2.12.3 CONSTRUCTION2.12.3.1 **General**

Fencing shall be constructed in accordance with the plans, at the locations as designated on the plans and

Drawing CB6-2.12.M6 or as directed by the Consultant.

All trees, brush, or other obstacles which interfere with the construction of the fence shall be removed prior to commencing fence construction.

Openings for gates shall be provided at locations designated by the Consultant.

The whole work of fencing shall be carried out in a substantial and workmanlike manner.

2.12.3.2 **Posts**

The posts shall be set in holes to the required depth, and tamped in a plumb and firm position to the line and spacing shown on the plans or as directed by the Consultant. Post holes shall be large enough to allow for proper tamping. Posts shall be set with the large end down. Backfill shall be placed in layers not exceeding 0.15 m, and compacted by hand tampers, machine tampers, or other suitable equipment. Completed backfill shall be crowned slightly to permit drainage away from the posts.

Driving of posts, including methods employing drilled pilot holes, will only be permitted if the results of these methods produces a satisfactory, uniform, undamaged product, with the post firmly implanted into the soil to the depth as indicated on the plans. If, in the opinion of the Consultant, the results obtained from the driving of posts, as described, are not satisfactory, then this method shall be discontinued.

Sharpening of posts will not be permitted.

Intermediate brace posts shall be erected in conformance with the maximum spacing requirements as shown on the plans, or at such additional locations as directed by the Consultant.

2.12.3.3 **Metal Stays and Reflective Tubing**

Where applicable, metal stays shall be installed to the line and spacing as shown on the plans or as directed by the Consultant. Fence wire shall be placed into the pre-punched slots of the metal stay and locked in place with a keeper wire inserted into the back of the metal stay. Reflective tubing shall be installed between the top wire and the second wire at each metal stay as indicated on the drawings.

2.12.3.4 **Wire**

All fence wire shall be pulled tight with hand stretchers, or tensioning apparatus capable of adjustment. The use of tractors or trucks for tightening the fence wire will not be permitted, unless the pull is controlled by adjustable tensioning apparatus.

2.12.3.5 Gates

Gates shall be constructed and located as shown on the plans or as directed by the Consultant. All gates shall be constructed and/or installed in a workmanlike manner.

2.12.3.6 Taking Down and Re-Erecting of Existing Fence

Where specified, existing fences shall be taken down, the materials carefully salvaged, and the fence re-erected in accordance with the class specified, to the satisfaction of the Consultant. Fencing materials damaged through the carelessness of the Contractor shall be replaced at his expense.

2.12.3.7 Remove and Salvage of Existing Fences

Where removal and salvage of existing fences is specified, the Contractor shall carefully take down the fence, roll the wire, and pile and place the material at locations as directed by the Consultant. Materials that are not suitable for salvage shall be disposed of at locations as directed or acceptable to the Consultant.

2.12.3.8 Remove and Dispose of Existing Fences

Where removal and disposal of existing fences is specified, the Contractor shall completely remove the fence and dispose of all materials at locations acceptable to the Consultant.

2.12.4 MEASUREMENT AND PAYMENT**2.12.4.1 General**

The construction of fences of all classifications and the taking down and re-erecting of existing fences will be measured by the kilometre, or fraction thereof, complete in place, including the length across constructed, installed or re-erected gates.

Where fences are removed only, the existing fence will be measured by the kilometre, or fraction thereof.

Length measurement will be calculated on the basis of through highway centreline chainage for fencing parallel to the highway, and on the basis of measured length in all other cases.

2.12.4.2 Supply and Install New Fence

Payment will be made at the unit price bid per kilometre for "New Fence - Supply and Install", of the class specified, complete in place, and including the installation of gates. This payment will be full compensation for supplying all materials, constructing the fence and for all equipment, tools, labour and incidentals necessary to complete the Work.

2.12.4.3 Taking Down and Re-Erecting Existing Fence

Payment will be made at the unit price bid per kilometre for "Taking Down and Re-erecting Existing Fence", of the class specified. This payment will be full compensation for taking down, salvaging and re-erecting the fence, and for all equipment, tools, labour and incidentals necessary to complete the Work.

2.12.4.4 Remove and Salvage of Existing Fences

Payment will be made at the unit price bid per kilometre for "Remove and Salvage of Existing Fence". This payment will be full compensation for removing and stockpiling salvaged materials and/or disposing of unsalvageable materials; and for all equipment, tools, labour and incidentals necessary to complete the Work.

2.12.4.5 Remove and Dispose of Existing Fences

Payment will be made at the unit price bid per kilometre for "Remove and Dispose of Existing Fence". This payment will be full compensation for removing and disposing of the fence and for all equipment, tools, labour and incidentals necessary to complete the Work.

2.12.4.6 Clearing Fence Line

The removal of trees, brush, or other obstacles will be measured and paid for in accordance with Specification 2.1, Clearing.