



THE RESORT VILLAGE OF  
**CANDLE LAKE**

**REPORT**

|                      |  |
|----------------------|--|
| <b>Report Title:</b> | <b>Landfill Expansion Tender (Report# 71/2014)</b> |
| <b>Date:</b>         | <b>September 09, 2014</b>                          |
| <b>Prepared By:</b>  | <b>Joan Corneil, CAO</b>                           |
| <b>Prepared For:</b> | <b>Council</b>                                     |

**RECOMMENDATION:** That Council directs administration to send out Requests for Tender for the construction of a new landfill cell.

**Justification for In Camera:**

**Background:** The RVCL landfill has reached its capacity and a new cell is required. Administration did a review of options in 2013 and presented those options to Council. The options were to develop a new cell or consider the collection of garbage from an outside contractor. Council determined that a new cell was the most cost effective way to go.

The RVCL engaged Clifton and Associates to undergo a study on the landfill proposed new site to determine if the cell would need a liner. The study was sent to the RVCL this summer and indicated that no liner would be required.

Preliminary drawings for the site have been vetted through Sask Environment.

**Discussion:**

In order for the RVCL to continue using the landfill site for the purpose of refuse collection, a new landfill cell must be constructed.

Time is of the essence as Sask Environment has allowed the use of the existing pit for the short term.

**Options:**

1. That Council directs administration to send out Requests for Tender for the construction of a new landfill cell.

**Financial Implications:** As per tender prices

**Communications:**

**Attachments:** Bid Form

**Conclusion:** As there is a legal requirement for the RVCL to have a new cell constructed, and time is of the essence, administration is recommending the issuance of the tender package as soon as possible.

**Respectfully submitted,**

**Joan Corneil, CAO**

To the Resort Village of Candle Lake

BID FORM

Contract No.: 2014-03

**Description of the Work:** CONSTRUCTION OF A NEW LANDFILL CELL in the Resort Village of Candle lake.

**Bid Closing Location, Date and Time:** Bids must be submitted to Resort Village of Candle Lake, Box 114 Candle Lake Saskatchewan by 2:00 P.M. C.S.T. on October 2, 2014.

THE UNDERSIGNED Bidder, having examined the General Provisions and Specifications contained in the Ministry's Standard Specifications Manual, the Standard Test Procedures Manual, the documents furnished with the Invitation to Bid (as identified in Appendix "A" of this Bid Form) and the Project; and understanding the nature and extent of the Work, HEREBY IRREVOCABLY OFFERS AND AGREES that if this Bid is accepted by the Resort Village, the Bidder shall execute, construct and complete the Work in accordance with the said General Provisions, Specifications and documents identified in Appendix "A", FOR THE FOLLOWING PRICES:

| Bid Item No. | Spec No.*    | Description (unit)                       | Estimated Quantities | Unit Bid Prices (numerals) |   | Extensions (numerals) |   |
|--------------|--------------|--|----------------------|----------------------------|---|-----------------------|---|
|              |              |  |                      | \$                         | ¢ | \$                    | ¢ |
| 1            | 2300         | Earth Embankment, density specified (m3) | 2800                 |                            |   |                       |   |
| 2            | 6105 SP Prov | Wildlife Fencing (m)                     | 105                  |                            |   |                       |   |

|                            |  |  |
|----------------------------|--|--|
| <b>Total Amount Of Bid</b> |  |  |
|----------------------------|--|--|

\* Includes all Specifications referred to in the stated Specifications and Special Provisions.

THE UNDERSIGNED Bidder acknowledges it is the Bidder's sole responsibility to ensure they have received all addenda prior to submitting their Bid and that all addenda are incorporated into this Bid.

As a guarantee of good faith, THE UNDERSIGNED Bidder encloses herewith a Bid Guaranty

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pursuant to Section 1100.6 of the General Provisions in the amount of NOT LESS THAN FIVE PERCENT of the Total Amount of Bid .

This Bid is irrevocable for 60 days after the close of bidding.

Should this Bid be accepted by the Resort Village of Candle Lake , THE UNDERSIGNED Bidder agrees to furnish the Indemnity Bond (unless otherwise stated in the Special Provisions) and proof of insurance pursuant to Sections 1200.10 and 1200.11 of the General Provisions.

Upon acceptance of the Bid by the Resort Village the Bid Form and the documents referenced in it constitute a legally enforceable agreement and supersede all previous representations, negotiations or discussions. No implied terms or obligations of any kind shall arise from anything in the agreement or otherwise and the express provisions of this agreement are the only provisions and agreements upon which any rights may be founded or asserted.

**BIDDER'S SIGNING BLOCK**

|   |                                   |
|---|-----------------------------------|
| DATED at _____ this _____ day of _____, 20____  |                                   |
| _____<br>Company Name                           | _____<br>Company Address          |
| _____<br>Print Name of Contact                  | _____<br>Contact Telephone Number |
| _____<br>Business Fax Number                    | _____<br>Business E-mail          |
| _____<br>Signature of Authorized Representative |                                   |

**RESORT VILLAGE OF CANDLE LAKE SIGNING BLOCK**

The Resort Village of Candle Lake hereby accepts the above Bid.

|   |  |
|---|--|
| <i>To be filled out by the Resort Village of Candle Lake . Do not write in this area.</i> |  |
| DATED at _____ this _____ day of _____, 20____  |  |
| _____<br>Signature of Authorized Representative   |  |
| _____<br>Name and Title   |  |

**APPENDIX A**

Special Provisions  
Contractor Occupational Health & Safety Compliance Form

**GENERAL PROVISIONS**

|      |  |          |
|------|--|----------|
| 1000 | Definitions And Interpretation                   | Apr./11  |
| 1100 | Bid Requirements And Conditions                  | Apr./11  |
| 1200 | Acceptance Of Bid And Execution Of Contract      | Apr./11  |
| 1300 | Scope Of Contract                                | Aug./01  |
| 1400 | Control Of The Work                              | Aug./01  |
| 1450 | Occupational Health And Safety                   | Jan./09  |
| 1500 | Control Of Aggregate And Aggregate Sources       | Sept./09 |
| 1510 | Control Of Borrow And Borrow Sources             | Sept./09 |
| 1520 | Control Of Manufactured Materials                | Sept./09 |
| 1600 | Legal Relations And Responsibility To The Public | Aug./01  |
| 1650 | Environmental Protection                         | Mar./09  |
| 1700 | Prosecution And Progress                         | Aug./01  |
| 1800 | Measurement And Payment                          | Oct./11  |
| 1900 | Labour, Wages, Records, And Employment           | Aug./01  |

**STANDARD SPECIFICATIONS – Earth, Excavation, Haul**

2300 Specification for Embankments

**STANDARD SPECIFICATIONS – Contract Obligations**

8100 Specification For Specified Completion Date June/05

**STANDARD TEST PROCEDURES – Soils, Granular Base Course & Binder/Filler**

|           |                                   |         |
|-----------|-----------------------------------|---------|
| STP 205-3 | Moisture By Oven Drying           | Nov./93 |
| STP 205-5 | Moisture - Density Proctor        | Nov./95 |
| STP 205-7 | Density-In-Place By Nuclear Gauge | May/02  |

**CUSTOM PLANS**

2014-03-001 Typical Cross Section Landfill

STANDARD SPECIFICATIONS (INCLUDING GENERAL PROVISIONS), STANDARD TEST PROCEDURES, SPECIFICATIONS FOR MANUFACTURED MATERIALS, AND DESIGN MANUALS can and must be obtained from the Ministry of Highways and Infrastructure's website at [www.highways.gov.sk.ca/business](http://www.highways.gov.sk.ca/business) under Ministry Manuals.

RESORT VILLAGE OF CANDLE LAKE LANDFILL CONSTRUCTION:

1. OCCUPATIONAL HEALTH AND SAFETY

1.1 Contrary to General Provision 1450.2.3, a Certificate of Recognition (COR) is not required for this Contract.

1.1.1 Bidders who do not have a COR shall submit their documented Safety Policy and Program with their Bid, or their Bid will be rejected.

1.1.1.1 To facilitate this, the Contractor Occupational Health & Safety Compliance Form is provided with the Bid Package.

1.1.2 Prior to awarding of the Contract, the Resort Village of Candle Lake will determine if the Safety Policy and Program is in accordance with the current Saskatchewan Occupational Health and Safety Act and Regulations.

1.1.2.1 If the Safety Policy and Program is unacceptable, the Resort Village of Candle Lake may reject the Bid.

1.2 It is anticipated that Part III of the proposed Saskatchewan Employment Act and the associated Regulations related to "prime contractor" requirements will be proclaimed into legislation. If this Act and these Regulations are proclaimed, the Contractor shall assume the roles and responsibilities of the "prime contractor".

2. COMPLETION DATE

2.1 In accordance with Specification 8100.2 For Specified Completion Date, the following will apply:

2.1.1 The Contractor shall complete the Work by October 31, 2014.

3. UTILITIES

3.1 The Contractor shall locate and protect all utilities located within the contract limits.

4. EARTH EMBANKMENT

4.1 Stripping of all organic soil and vegetation from the entire footprint of the new landfill cells will not be paid for directly but will be considered as a subsidiary obligation of the Contractor under the contract unit price for Earth Embankment (Specification 2300).

## SPECIAL PROVISIONS

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- 4.2 Sub cutting below the embankment will not be paid for directly but will be considered as a subsidiary obligation of the Contractor under the contract unit price for Earth Embankment (Specification 2300).
- 4.3 Contrary to 2300-4 Measurement the volume of the earth embankment will not be measured directly but will be assumed to be design quantities.
- 4.4 Contrary to 2300.5 Payment will be paid at the unit price for embankment at the design quantities.

### 5. WILDLIFE FENCING

- 5.1 Contrary to Specification 6105 the fencing material shall be Galvanized Woven Wire, 20/96/2 or equivalent. Posts will be 3m long 0.15m diameter treated wood posts spaced 6 m apart and braced at each corner with a horizontal post.
- 5.2 In addition to Specification 6105-2- Materials the Contactor will supply and pay for all fencing materials.

### 6. MISCELLANEOUS

- 6.1 The words "Resort Village of Candle Lake" shall be substituted for "Department" or "Department of Highways and Transportation" or "Ministry" as and where necessary for the correct reading of documents throughout this Contract.
- 6.2 In addition to General Provision 1100.5.2, the Unit Price for each Bid Item shown on the Bid Form shall include all taxes (including the Provincial Sales Tax) on all materials and other input costs. No additional payment will be made above the contract unit prices to cover taxes paid by the Contractor.
- 6.3 Contrary to General Provisions 1100.7.3, 1100.8.3 and 1100.9.3, electronic Bid submission is unavailable at this time.
- 6.4 In addition to General Provisions 1650.2.5 and 1650.2.7, all equipment shall arrive on site in a clean condition and shall be maintained to be free of fluid leaks.
- 6.5 In addition to General Provision 1650.2.8, the Contractor shall wash, refuel and service equipment; and store fuel and other materials for the equipment at locations at least 100 metres from the high water mark on each side of a water body.
- 6.6 If outstanding minor Work remains to complete the Contract at the time of final inspection and acceptance and the Contractor does not wish to complete this Work, the Contractor may (subject to the discretion of the Engineer) be charged a fee as

SPECIAL PROVISIONS

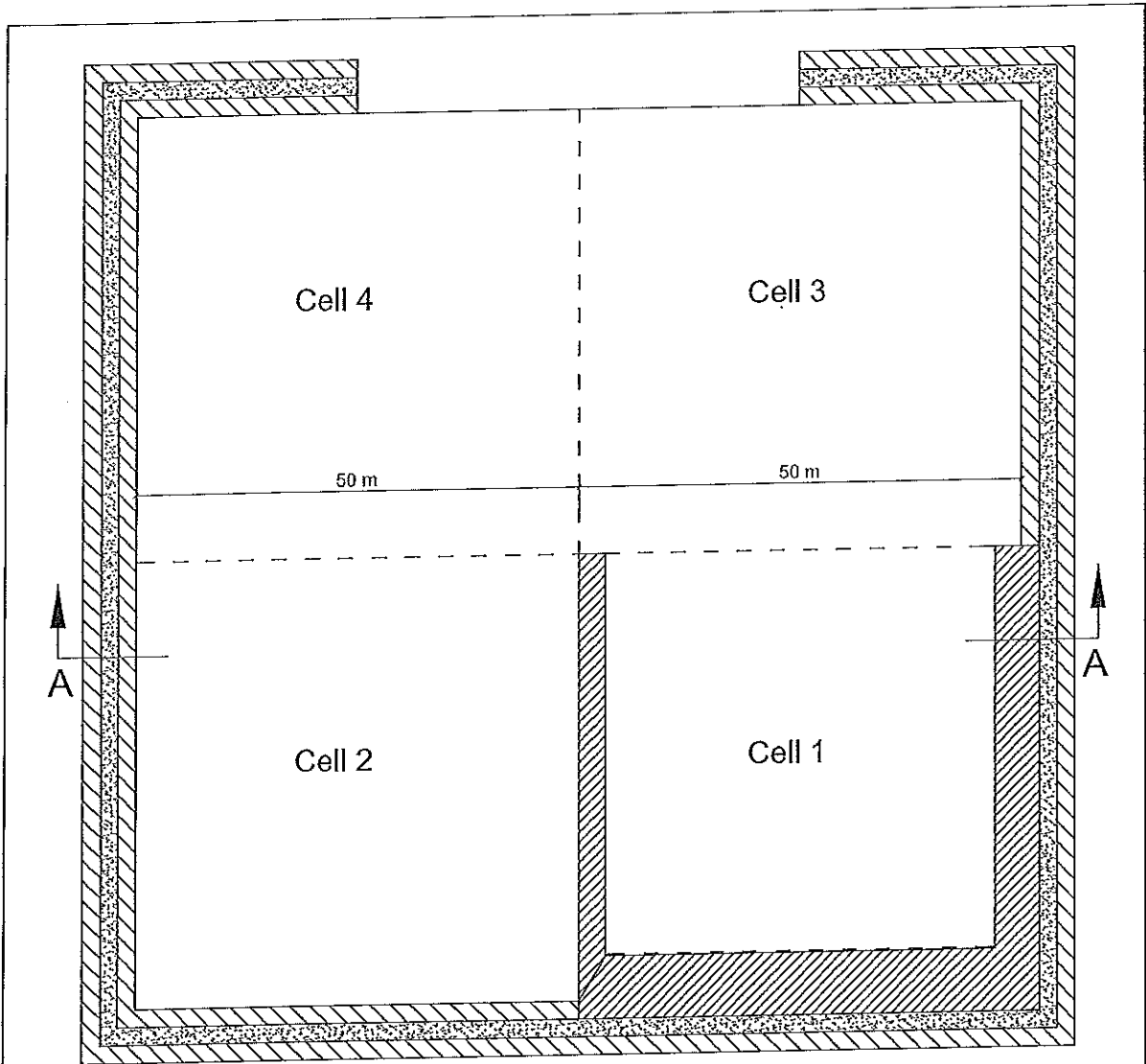
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determined by the Engineer to compensate the Resort Village of Candle Lake for having others complete the Work.

- 6.7 During tendering, inquiries pertaining to the interpretation of the Bid Package documents shall be directed to:

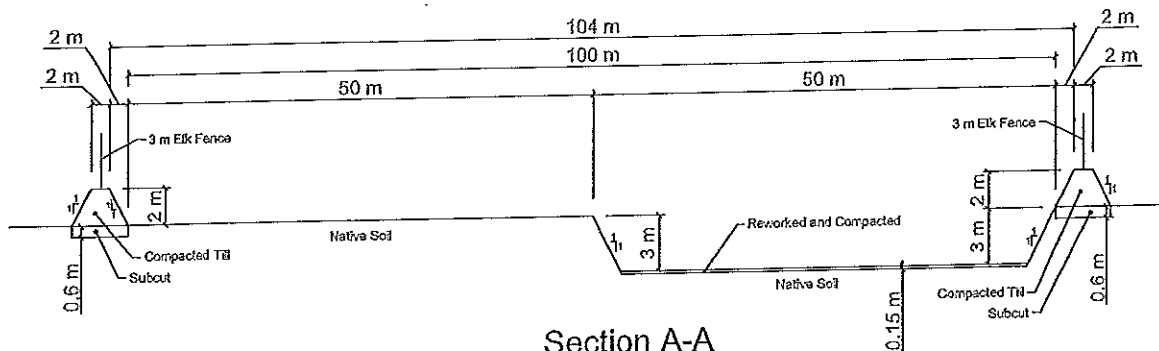
Mr. Doug Allen, Public Works Manager  
Box 114  
Candle Lake SK  
S6V 5R1

Phone: (306) 929 2236  
Cell: (306) 961 2207



Plan View

Scale: 1:500



Section A-A

Scale: Horizontal 1:500  
Vertical 1:250

|  |                 |                                      |          |          |  |       |  |
|--|-----------------|--------------------------------------|----------|----------|--|-------|--|
| <b>GLK Engineering</b><br>Civil and Transportation Engineering |                 | <b>CANDLE LAKE</b><br>DUMP EXPANSION |          |          |  |       |  |
|  |                 |                                      |          |          |  |       |  |
| DRAWN BY   | SL LAVIGNE      | DATE                                 | 14/09/08 | PROJECT  |  | DWG   |  |
| DESIGNED BY  | G. KING, P.ENG. | DATE                                 | 14/09/03 | CONTRACT |  | SHEET |  |





## 2300 - SPECIFICATION FOR EMBANKMENTS

### 2300 - 1 DESCRIPTION

1.01 The work shall consist of embankments and miscellaneous backfills constructed with excavated materials to the lines, grades, and dimensions shown on the plans, or as designated by the Engineer. Miscellaneous backfills will include backfill for the culvert excavations, subcuts, existing dugouts, disposal pits, and bridges.

1.02 Embankments will be classified on the tender form as one of the following:

- Earth embankment, density not specified
- Earth embankment, density specified
- Rock embankment

### 2300 - 2 MATERIALS

#### 2.01 Earth Embankment

The materials will consist of acceptable earth material and rock material free from objectionable quantities of organic matter, frozen soil, stumps, trees, moss, and other unsuitable materials.

#### 2.02 Rock Embankment

The material will consist of fragmentary rock produced by drilling and blasting operations, and boulders which cannot be placed in layers as specified for Earth Embankments.

### 2300 - 3 CONSTRUCTION

#### Earth Embankment

3.01 If a dugout is to be backfilled, the Contractor shall be required to pump water from the dugout at no direct expense to the Department.

3.02 Unclassified rubbish, shrubs, and vegetation that can be cut with a brush scythe or mowing machine shall be removed and disposed of from areas under embankments where the fill is to be less than 120 centimetres in height, unless stripping of unsuitable material from areas under embankments is specified. This work shall be completed at least two kilometres ahead of the earthmoving operation.

3.03 Grass, vegetation, and other unsuitable materials shall be removed from the existing embankment slopes before raising or widening the embankment.

- 3.04 The embankment shall be constructed by placing the material in successive layers distributed according to whichever of the following is applicable:
- At levels where suitable material is placed, the full width of the embankment.
  - At levels where unsuitable material is being placed, the full width of each segment of the unsuitable material, and the full width of the central core of suitable material.
  - The depth of each layer shall not be more than 15 centimetres uncompacted. The full width of each segment of each layer shall be bladed with a motor grader at least twice prior to being compacted except that the Engineer may approve the use of a bulldozer. The Contractor shall ensure that there will be no intermixing of the unsuitable and suitable material.
- 3.05 The slopes and surface of the embankment shall be shaped and trimmed to a uniform smooth surface conforming to the cross-sections shown on the plans, or as staked by the Engineer.
- 3.06 Stones having a dimension of eight centimetres or more when measured in any direction shall be excluded from the top 15 centimetres of the subgrade. If a clay cap or select subgrade course is required, the 15 centimetre dimension shall be reduced by the designated thickness of the applicable course.
- 3.07 Organic soils, subject to the approval of the Engineer may be used in the construction of farm approaches, ditch blocks, medians, and beneath the side slopes of embankments.
- 3.08 The following requirements will apply for all embankments except farm approaches and ditch blocks:
- (a) When unsuitable material is encountered below the natural ground surface in embankment areas, the material shall be excavated and disposed of as indicated on the plans, the special provisions, or as designated by the Engineer.
  - (b) If embankments are to be constructed over marshes, muskegs, or other excessively wet materials, the construction procedures shall be indicated on the plans, the special provisions, or as designated by the Engineer.
  - (c) If a density requirement for earth embankments is not specified on the tender form and the material on the embankment surface has insufficient moisture to produce a stable surface as determined by the Engineer, water shall be added in quantities as directed by the Engineer. The water shall be distributed in accordance with the requirements for Watering (Specification 2500).
  - (d) If a density requirement for earth excavation is specified on the tender form, each layer of the top 60 centimetres of the highway subgrade shall be dried to at least the optimum moisture content and compacted to an average of not less than 100 percent of the maximum density as determined by Test 9200.
    - (i) The foregoing requirements will also apply to backfill for subcuts and the embankment required to prepare the beds and backfill drainage structures.

- (ii) The Engineer will determine from the test results the section of embankment to be considered for evaluation. The moisture and density on this section will be considered satisfactory when:
  - All individual moisture test results are equal to or less than the optimum moisture content.
  - Density test results average not less than 100 percent of the maximum density.
  - All individual density tests are greater than 98 percent of the maximum density.
- (iii) If the moisture existing in the soil is insufficient for compacting to the specified density and for finishing, the Contractor may elect to add water. The water shall be added in accordance with the requirements for Watering (Specification 2500).
- (iv) In the remaining portion of the embankment no density or moisture content is specified; however, the Contractor will be required to spread the material in even lifts as specified. The Engineer may designate that drying and/or compaction be done on an Extra Work basis.

#### **Rock Excavation**

- 3.09 The material shall be placed in the embankment by end dumping or dozing over the advance face of the fill. The embankment shall be constructed to full width and true to cross-section as the work progresses. No dumping over the side slopes of the embankment will be permitted. The vertical dimension of any rock in place in the embankment shall not be greater than one-third of the depth of the fill in which the material is placed.
- 3.10 Rock embankments placed on a stable base shall be constructed so that the centre of the advancing face of the embankment is behind the advance of the shoulders.
- 3.11 Rock embankments placed on an unstable base shall be constructed so that the centre of the advancing face of the embankment fill is out in advance of the shoulders. Slopes shall be constructed to the natural angle of repose.
- 3.12 Voids in the top of the embankment shall be chocked with small rock fragments when the embankment is up to grade.

#### **2300 - 4 MEASUREMENT**

- 4.01 The volume of embankment will be measured in cubic metres in the final position. The volume will be determined from the cross-section method, except that volumes of ditch blocks and approaches may be determined from the average length, width, and depth. Measurement of the volume is for the purpose of computing haul.

## 2300 - 5 PAYMENT

- 5.01 Construction of an embankment in accordance with this specification will not be paid for directly but will be considered as a subsidiary obligation of the Contractor under the contract unit price for Earth Excavation (Specification 2200) and/or Rock Excavation (Specification 2250) and/or Disposal of Surplus Rock (Specification 2320).
- 5.02 Payment for watering on the road will be in accordance with the requirements for Watering (Specification 2500).



## 6105 - SPECIFICATION FOR STANDARD FENCE

### 6105 - 1 DESCRIPTION

- 1.01 The work shall consist of fences and gates constructed in accordance with the plans and at locations designated by the Engineer.
- 1.02 Gates will not include texas gates.

### 6105 - 2 MATERIALS

- 2.01 The Department will supply and pay for fencing material.

### 6105 - 3 CONSTRUCTION

- 3.01 The Contractor shall adequately repair or replace, at no direct expense to the Department, any fence material damaged by his operations.
- 3.02 Fences shall be erected using either wood or metal posts as indicated on the plans, the special provisions, or as designated by the Engineer.

#### Wood Posts

- 3.03 The Contractor shall be permitted to either dig post holes or drive the posts.
- 3.04 If the Contractor elects to dig post holes the following shall apply:
  - (a) Post holes shall be dug to the depths shown on the plans. The posts shall be set plumb and shall conform to the alignment staked. The holes shall be backfilled and tamped in layers not exceeding fifteen (15) cm in depth. The alignment shall be preserved during the backfill operation.
- 3.05 If the Contractor elects to drive posts the following shall apply:
  - (a) The posts shall be driven into the ground to the depths shown on the plans. The alignment shall be preserved during the driving operations.
- 3.06 Barbed wire and woven wire shall be stretched tightly by a mechanical stretcher or device designed for such use. The use of any form of motor vehicle will not be allowed.
- 3.07 Staples shall be driven diagonally to the grain of the wood and shall be driven three-fourths of their length into the wood leaving room for the wire to move.
- 3.08 The wire shall be neat and tightly coiled a minimum of four (4) times on each side of a splice.

### **Metal Posts**

- 3.09 Metal posts shall be driven into the ground to the depths shown on the plans. The alignment shall be preserved during the driving operations. Proper care shall be taken in the driving so as not to bend or burr the post.
- 3.10 Barbed wire and woven wire shall be stretched tightly and fastened securely to each post with one galvanized wire clamp for each strand or by such other fastenings provided for use with the type of post used.
- 3.11 If it is necessary to set posts adjacent to land monuments or property markers, the posts shall be placed on the owner's side of the property line as close as feasible to such markers or monuments.
- 3.12 Gates and bracings shall be in accordance with the standard plans.

### **6105 - 4 MEASUREMENT**

- 4.01 Standard Fence, including the length of gates, will be measured in metres.
- 4.02 Length will be determined from horizontal measurements.

### **6105 - 5 PAYMENT**

- 5.01 Payment for STANDARD FENCE USING WOOD POSTS will be at the contract unit price per metre. The unit price will be full compensation for unloading, storing, handling, hauling from delivery points, driving posts when designated by the Engineer, digging post holes, placing posts, tamping backfill, stapling and stretching wires, and constructing gates and braces.
- 5.02 Payment for STANDARD FENCE USING METAL POSTS will be at the contract unit price per metre. The unit price will be full compensation for unloading, storing, handling, hauling from delivery points, driving posts stretching wires, fastening wire to posts, and constructing gates and braces.