



CORPORATION OF THE TOWNSHIP OF AUGUSTA

BY-LAW NUMBER 2951

**BEING A BY-LAW TO
AWARD THE TENDER CONTRACT FOR
RECONSTRUCTION OF NORTH CAMPBELL AND BLUE CHURCH ROAD**

WHEREAS the Municipal Act, 2001 c. 25 S.O. 2001 section 8 allows for the Powers of a Natural Person and those powers may include the entering into an agreement for service;

AND WHEREAS it is deemed expedient to provide a for the reconstruction of North Campbell Road and Blue Church Road as per tender 2012-08 and to award the contract to the successful bidder

NOW THEREFORE the Council of the Township of Augusta authorizes and accepts the submitted tender offer of Tackaberry and Sons Construction Company Limited in the amount of \$676,432.00 plus HST, pursuant to all the terms and conditions therein, as hereto attached.

READ a first and second time this 9th day of July, 2012.

READ a third time and passed this 9th day of July, 2012.



REEVE



CLERK

TOWNSHIP OF AUGUSTA

CONTRACT NO. 2012-08

G. TACKABERRY & SONS CONSTRUCTION COMPANY LIMITED
Name of Tenderer (The Contractor)

P.O. Box 70, 109 WASHINGTON RD., ATHENS, ONT., K0E1E0
Address of Tenderer, including Postal Code

613-924-2634
Telephone Number

613-924-2742
Fax Number

tackaberry@tackaberryconstruction.com
Email

GEORGE TACKABERRY - PRESIDENT
Name and Position of Person Signing for Contractor

TENDER FOR: Drainage, Granular Materials and Road Base Preparation

LOCATIONS:

Location 1: North Campbell Road (from McIntosh Road to County Road 26, 1,900m)

Location 2: Blue Church Road (from County Road 26 to Lords Mills Road, 2,000m)

TENDER CLOSING DATE: 12:00 p.m. Thursday, July 5th, 2012

Tenders Received by:

Mike Larocque – CAO/CLERK
Corporation of the Township of Augusta
3560 County Rd 26, RR2
Prescott, ON K0E 1T0

To: The Reeve and Council
Corporation of the Township of Augusta

Ladies and Gentlemen:

The Bidder has carefully examined the Plans, Provisions, Specifications and Conditions described herein as part of the work to be done under this Contract. The Bidder understands and accepts the said Plans, Provisions, Specifications and Conditions and, for the prices set forth in this Tender, hereby offers to furnish all materials, except as otherwise specified in the Contract, and to complete the work in strict accordance with the said Plans, Provisions, Specifications and Conditions.

The Bidder understands and accepts that the quantities shown are approximate only, and are subject to increase, decrease or deletion entirely if found not to be required. **Part or whole of this Contract is contingent upon the budget approval of the Township of Augusta.**

Attached to this Tender is a certified cheque for the sum of:

FIFTY THOUSAND $\frac{xx}{100}$ Dollars \$ 50,000.⁰⁰

which is equal or greater than the amount specified in the "Table of Contractor's Tender Minimum Deposit Required, as provided in this tender document and made payable to the Corporation of Augusta Township. The cheque shall constitute a deposit which shall be forfeited to the Corporation if the successful Bidder fails to fulfil his obligation under the terms of this Contract.

ITEMIZED BID:

In accordance with the first paragraph of this tender, the Bidder hereby offers to complete the work specified herein for the following unit prices:

ITEM NO.	SPEC NO.	DESCRIPTION OF ITEM	ESTIMATED QUANTITY	UNIT PRICE	TOTAL
LOCATION 1: North Campbell Road (from McIntosh Road to County Road 26, 1,900m)					
1	310 S.P.	Hot Mix HL-3 Miscellaneous	96 m ²	\$ <u>46.50</u> per m ²	\$ <u>4,464.00</u>
2	314 S.P.	Granular 'A'	2,000 tonnes	\$ <u>12.50</u> per tonne	\$ <u>25,000.00</u>
3	314 S.P.	Granular 'B' Type 2	6,500 tonnes	\$ <u>16.00</u> per tonne	\$ <u>104,000.00</u>
4	314 S.P.	Granular "M"	7,050 Tonnes	\$ <u>16.80</u> per tonne	\$ <u>118,440.00</u>
5	506	Water for Compaction and Dust Control	100 m ³	\$ <u>20.00</u> per m ³	\$ <u>2,000.00</u>
6	206 S.P.	Supply & Place 375 mm Flexible Pipe Culvert	150 metres	\$ <u>172.00</u> per metre	\$ <u>25,800.00</u>
7	206 S.P.	Supply & Place 450 mm Flexible Pipe Culvert	18 metres	\$ <u>182.00</u> per metre	\$ <u>3,276.00</u>
8	206 S.P.	Supply & Place 600 mm Flexible Pipe Culvert	36 metres	\$ <u>560.00</u> per metre	\$ <u>20,160.00</u>
9	206 S.P.	Earth Ditch Cleanout	3,600 metres	\$ <u>8.90</u> per metre	\$ <u>32,040.00</u>
10	802 S.P.	Topsoil	4,000 m ²	\$ <u>5.40</u> per m ²	\$ <u>21,600.00</u>

11	804 S.P.	Hydro Seeding	10,000 m ²	\$ <u>0.60</u> per m ²	\$ <u>6,000.00</u>
LOCATION 2: Blue Church Road (from County Road 26 to Lords Mills Road, 2,000m)					
12	310 S.P.	Hot Mix HL-3 Miscellaneous	168 m ²	\$ <u>46.50</u> per m ²	\$ <u>7,812.00</u>
13	314 S.P.	Granular "A"	800 tonnes	\$ <u>12.50</u> per tonne	\$ <u>10,000.00</u>
14	314 S.P.	Granular 'B' Type 2	5,400 tonnes	\$ <u>16.00</u> per tonne	\$ <u>86,400.00</u>
15	314 S.P.	Granular "M"	7,500 tonnes	\$ <u>16.80</u> per tonne	\$ <u>126,000.00</u>
16	506	Water for Compaction and Dust Control	100 m ³	\$ <u>20.00</u> per m ³	\$ <u>2,000.00</u>
17	206 S.P.	Supply & Place 375 mm Flexible Pipe Culvert	120 metres	\$ <u>172.00</u> per metre	\$ <u>20,640.00</u>
18	206 S.P.	Earth Ditch Cleanout	4,000 metres	\$ <u>8.90</u> per metre	\$ <u>35,600.00</u>
19	802 S.P.	Topsoil	4,000 m ²	\$ <u>5.40</u> per m ²	\$ <u>21,600.00</u>
20	804 S.P.	Hydro Seeding	6,000 m ²	\$ <u>0.60</u> per m ²	\$ <u>3,600.00</u>

TOTAL TENDERED PRICE \$ 676,432.00

The work required by this Contract shall be performed in accordance with the following schedule of specifications and provisions:


Tender Forms:

General	Pages 1 and 2
Itemized Bid	Pages 3 to 5, inclusive
Schedule of Tender Data	Page 6
Special Provisions - General	Pages 7 to 15, inclusive
Special Provisions - Items	Pages 16 to 21, inclusive
Standard Specifications:	
OPSS-206	November 2000
OPSS-310	November 2004
OPSS-314	November 2004
OPSS-421	April 2008
OPSS-501	November 2005
OPSS-506	November 2005

OPSS.MUNI 100 General Conditions of Contract dated November 2006.

The Contractor, by this tender, offers to complete the work of this Contract in accordance with the terms contained herein.

Dated at ATHERNS, ONT. this 5th day of JULY, 2012



Signature

PRESIDENT

Position

SPECIAL PROVISIONS - GENERAL

1. Tender Closing

SEALED TENDERS clearly marked as to contents, will be received by the undersigned or his designated representative until 12:00 p.m., July 5, 2012 at the Township of Augusta Administration Office. Bids received after closing time will not be considered. Tenders shall be addressed to: Mr. Mike Larocque, CAO/Clerk, Township Administration Building, 3560 County Road 26 RR2 Prescott, ON K0E 1T0. Tenders will be opened in public at the Township Administrative Office Building at 12:30 p.m., on the closing date.

Augusta Township
Public Works Department
3560 County Road 26 RR2
Prescott, Ontario K0E 1T0
Attention: Mr. Mike Larocque, CAO/Clerk
Phone: (613) 613-925-4231
Fax: (613) 925-3499

2. Tender Submission

One copy of the **completed tender** shall be submitted on the forms provided. All information shall be shown in the spaces provided including the signature of the Bidder with his/her address and telephone number. Tender Forms must be properly signed and witnessed, or signed and sealed if the bidder is a Corporation. Any Tender Offer sent by fax will be disqualified.

The Tender must be legible, written in ink or typewritten, where stipulated, with the unit price for every item clearly shown. Tenders which are incomplete, conditional or obscure, or which contain erasures or alterations not properly initialled, or irregularities of any kind, may be rejected. Submissions must not be restricted by a statement added to the Township form or by a covering letter, or by alterations to the form supplied, unless otherwise provided in the Special Provisions.

The contract documents shall consist of all pages of the Tender or Quotation documents issued by the Township, and the Contractor's submission. Do not remove any pages from the Township form(s).

3. Order of Precedence

Order of precedence shall be per *General Condition 2.02* with the exception that *General Condition 2.01.01 a)* is hereby replaced with the following:
2.01.01 a) The location of all mainline underground Utilities that may affect the Work shall be determined and arranged by the Contractor.

4. Clarification of Documents

Any clarification of the Township documents required by the Bidder prior to submission shall be requested in writing through the Township of Augusta. Any such clarifications so given shall not in any way alter the Township documents and the Contractor and Township agree that in no case shall oral arrangements be considered.

No officer, agent or employee of the Township is authorized to alter orally any portion of these documents during the period prior to submissions. Alterations will be issued to Bidders as written addenda only. In the submission, the Bidder shall enclose all addenda that were considered when the submission was prepared

5. Right to Accept or Reject Tenders

The Owner reserves the right to reject any or all tenders or to accept any tender should it be deemed to be in its best interest to do so. No liability shall accrue to the Township for its decision in this regard.

Tenders which are incomplete, conditional or obscure, or which contain additions not called for, erasures, alterations, or irregularities of any kind, may be rejected as informal.

The acceptance of any Submission is subject to appropriate funding acceptable to the Township.

The placing in the mail or delivery of a notice of award to the Company address given in the Submission, shall constitute notice of acceptance of the tender.

6. Unacceptable Tenders

Each item in the Tender Form shall be a reasonable price for such item. Under no circumstances will an unbalanced Tender be considered. The Owner and the Engineer will be the sole judges of such matters, and should any Tender appear to be unbalanced, then it will be rejected by the Owner.

7. Tender Deposit

The Tender must be accompanied by a deposit, enclosed in the same envelope as the tender. The deposit shall be a certified cheque, or bid bond, made payable to the Township of Augusta, equal or greater than the amount shown in the following Table.

Total Amount of Contractor's Tender Minimum Deposit Required	
\$ 20,000.00 or less	\$ 1,000.00
\$ 20,000.01 to \$ 50,000.00	\$ 2,000.00
\$ 50,000.01 to \$ 100,000.00	\$ 5,000.00
\$ 100,000.01 to \$ 250,000.00	\$ 10,000.00
\$ 250,000.01 to \$ 500,000.00	\$ 25,000.00
\$ 500,000.01 to \$1,000,000.00	\$ 50,000.00
\$1,000,000.01 to \$2,000,000.00	\$ 100,000.00
\$2,000,000.01 and over	\$ 200,000.00

8. Tender Results

The names of the Bidders and total bid prices will be made available at the Public Opening.

9. Release of Tender Deposit

All Tender Deposits will be returned to the respective bidders within five days after the Tenders have been opened except those which the Owner elects to retain until the successful bidder has executed the Contract documents.

The Tender Deposit of the successful bidder will be returned when he has fully complied with the conditions outlined in the Tender Documents, and has completed at least 25% of the work under the Contract.

10. Hold Back

Holdback is accrued at the rate of 10%, on all work preformed after the date of the application for payment at Substantial Performance.

Upon the passing of 45 days, the contractor supplies Augusta Township with a Statutory Declaration that all bills and sub contractors are paid.

The Township then reduces hold back to 2½ %.

At the end of the calendar year of final completion the 2½ % is released (if no deficiencies)

11. Layout

General Conditions 3.05 – Layout is hereby deleted and replaced with the following:

Layout will be the responsibility of the Contractor.

12. Clarification of Work

Where the Contractor requests clarification on items provided herein to complete the work, the Contractor and the designated Township Representative(s) will agree upon the work required and a written Clarification Document will be agreed upon and signed by both the Contractor and the Township prior to the work being completed.

13. Progress of the Work and Time of Completion

Time shall be of the essence in this contract.

The Contractor shall diligently prosecute his work on this Contract to completion on, or before, the

24th day of August, 2012

If this time limit above specified is not sufficient to permit completion of the work by the Contractor working a normal number of hours each day or week on a single daylight shift basis, it is expected that additional equipment and/or augmented daylight shifts will be required through the life of the Contract to the extent deemed necessary by the Contractor to ensure that the work will be completed within the limit specified. Any additional costs occasioned by compliance with these provisions will be considered to be included in the prices bid for the various items of work and no additional compensation will be allowed therefore.

Working time shall be charged until the date of acceptance of the work by the Township at which time all work required in the Contract, including all final clean-up and trimming, shall be completed.

An extension of time may be granted, in writing, by the Engineer in the event of the work being delayed beyond the prescribed time for completion. Such extensions shall be for such time as the Engineer may prescribe, and the Engineer shall fix the terms on which the said extension may be granted. An application for an extension of time shall be made, in writing, by the Contractor to the Township at least fifteen (15) days prior to the date of completion fixed by the Contract as per GC 3.06. The date of expiry of all bonds or other surety furnished to the Township by the Contractor shall be extended at the expense of the Contractor to at least two (2) months beyond the extended date of completion, and the Contractor shall furnish the Township with evidence of such extension of the bond or other surety.

Any extension of time that may be granted to the Contractor shall be so granted and accepted without prejudice to any rights of the Township whatsoever under this Contract, and all such rights shall continue in full force and effect after the time limited in this Contract for the completion of the work and whenever in this contract power or authority is given to the Township or the Engineer of any person to take any action consequent upon the act, default, neglect, delay, breach, non-observance or non-performance by the Contractor in respect of the work or Contract, or any portion thereof, such powers or authorities may be exercised from time to time and not only in the event of the happening of such contingencies before the time limited in this Contract for the completion of the work but also in the event of the same happenings after the time so limited in case of the Contractor being permitted to proceed with the execution of the work under time granted by the Township. In the event of the Township granting an extension of time, time shall continue to be deemed of the essence of this Contract.

14. Changes in the Work

General Condition 3.10.01 stipulates that the Owner or Contract Administrator where so authorized, may, by order in writing, make a Change in the Work without invalidating the Contract. The Contractor shall not be required to proceed with the Change in the Work until in receipt of a Change Order or Change Directive. Upon the receipt of such Change Order or Change Directive the Contractor shall proceed with the Change in the Work.

In addition to the above *General Condition 3.10.01* the Township of Augusta requires that the amendment to the contract or item(s) of contract will be in the form of a Change Order or Change Directive and will be signed in agreement by the Contractor and the Contract Administrator prior to proceeding with the work.

15. Insurance

The Contractor must provide to the Township, a copy of a "Certificate of Liability Insurance" prior to commencement of the work as per *General Conditions 6.03.01*.

16. Execute Contracts

Unless otherwise specified in these documents, this tender constitutes an irrevocable offer to provide the goods and/or service described herein for a period of 60 days from the closing date of the receipt of tender. After this time, the Tender may only be accepted with the consent of the successful bidder.

*General Condition 6.04 Bonding is hereby deleted and replaced with the following:
No bond is required.*

17. Ability and Experience of Bidder

The Owner reserves the right to reject the Tender of any bidder who does not furnish satisfactory evidence of sufficient capital, plant and experience to successfully prosecute and complete the work in the specified time.

18. Governmental Requirements

The Contractor shall obey all Federal, Provincial and Municipal laws, Acts, Ordinances, Regulations, Orders-in-Council and By-laws, which could in any way pertain to the work outlined in the Contract or to the Employees of the Contractor.

19. Definition of Owner and Engineer

Wherever the word "Corporation", "Authority" or "Owner" appears in this Contract, it shall be interpreted as meaning the "Corporation of the Township of Augusta".
Wherever the word "Engineer" or "Contract Administrator" appears in this Contract, it shall be deemed to mean the "CAO/Clerk of the Township of Augusta, or his designate".

20. Health and Safety

The Township of Augusta is committed to ensuring that a high standard of health and safety is provided and maintained for all employees, visitors, guests, contractors, agents and others on our premises.

The Contractor shall be the "Constructor" under the provisions of the Occupational Health and Safety Act.

Accordingly all Contractors shall comply with General Condition 7.01 and the following:

- a. Demonstrate establishment and maintenance of a health and safety program with objectives and standards consistent with applicable legislation, and with the Corporation of the Township of Augusta.
- b. Submit their Workplace Safety Insurance Board number.
- c. Include health and safety provisions in their management systems to reach and maintain a consistently high level of health and safety.
- d. Prior to commencement of work the Contractor will notify the Owner of all products controlled under the Workplace Hazardous Materials Information System (WHMIS) as per *General Condition 7.01.09* and ensure that workers in their employ are aware of hazardous substances that may be in use at their

place of work, and wear appropriate personal protective equipment as may be required.

- e. Provide a copy of the applicable WSIB Certificate of Clearance before starting a project, and upon completion as stipulated in *General Condition 6.05*.
- f. Provide upon request a copy of your Company Health and Safety Policy as noted in *General Condition 7.01.08*.
- g. Upon request at any time from the awarding to the completion of the contract, submit proof of fulfilment of the above noted responsibilities.

21. Working Area

Working Area Conditions will comply with *GC 7.03* with the addition of the following:

Where no specific requirements for erosion and sedimentation control are defined in the contract, the Contractor shall take all necessary precautions to ensure that no deleterious materials enter any ditch, stream, pond, lake or other water body as a result of the work on this contract.

The Contractor shall provide and maintain a portable toilet for the term of the contract.

22. Road to Remain Open to Traffic

The Contractor is advised that per *General Condition 7.07*, County Road(s), on which the work under this Contract is located, shall remain open to normal highway traffic at all times during the execution of the work. The Contractor shall plan and carry out his operations in such a manner that this normal traffic is not unduly disrupted.

No detouring of traffic will be permitted without the written permission of the Contract Administrator in advance. Traffic may be reduced to a single lane during daylight hours with the use of traffic control persons and appropriate temporary signing but the road must be re-opened for regular two-way traffic at the end of each work day.

23. Other Contractors Within or Adjacent to the Limits of the Contract

The Contractor is advised that as other work may be in progress within and adjacent to the limits of this Contract. He shall coordinate with other Contractors and Utility Companies and they shall be allowed free access to their work at all possible times as per *General Condition 7.14*

24. Estimated Quantities

General Conditions of the Contract, *GC 8.01.02*, Variations in Tender Quantities, shall be deleted and replaced by the following:

“The estimated quantities set forth in the Tender are approximate only, and the basis of payment under this Contract will be the actual amount of work done and materials supplied.”

25. Taxes

Federal Goods and Services Tax is applicable to all payments made under this Contract the Contractor shall provide the Contract Administrator with his H.S.T. registration number which will be shown on all payment certificates issued by him. The Contract Administrator will add the 13% H.S.T. to all payments made under the Contract. Accordingly, the Contractor will not make any provision for H.S.T. in the prices tendered under this Contract.

26. Certification and Payment

Certification and Payment of the Contract shall be per *General Conditions GC 8.02.03* with the exception that *GC 8.02.03.02* and *8.02.03.03* are hereby deleted.

27. Liquidated Damages – GC 8.02.09

It is agreed by the parties to the Contract that in case all the work called for under the Contract is not finished or completed within the prescribed time as set forth in the Special Provisions, damage will be sustained by the Township and that it is and will be impracticable and extremely difficult to ascertain and determine the actual damage which the Township will sustain in the event of and by any reason of such delay and the parties hereto agree that the Contractor will pay to the Township the sum of

Five Hundred Dollars (\$500.00)

per day for liquidated damages for each and every calendar day's delay in finishing the work in excess of the time limit prescribed and it is agreed that this amount is an estimate of the actual damage to the Township which will accrue during the period in excess of the prescribed number of working days.

The Township may deduct any amount due under this paragraph from any moneys that may be due or payable to the Contractor on any account whatsoever. The liquidated damages payable under this paragraph are in addition to and without prejudice to any other remedy, action or other alternative that may be available to the Township.

The Contractor shall not be assessed with Liquidated Damages for any delay caused by Acts of God, or of the Public Enemy, Acts of the Province or of any foreign state, fire, flood, epidemics, quarantine restrictions, embargoes or delay of sub-contractors due to such causes.

If the time available for the completion of the work is increased or decreased by reason of alterations or changes made under the General Conditions, the completion date shall be adjusted as determined by the Engineer

SPECIAL PROVISIONS – ITEMS

GENERAL FOR ALL HOT MIX ITEMS:

Supply of Asphalt Cement:

The Performance Grade Asphalt Cement (PGAC) is to be 58-28

Preparation of Paving Surface:

Prior to paving, the Contractor shall carry out any preparatory work required including sweeping of debris off existing pavement. Where paving is to be placed on granular grade, the Contractor shall restore the granular surface using a motor grader and packer. The cost of this operation shall be included in the unit price tendered for the hot mix paving unless otherwise stated in the contract.

Intersections and Entrancesways:

The Contractor shall pave all entrances as directed by the Contract Administrator in general conformance with OPSD-304.01.

Where paving is to be on granular grade, the Contractor shall provide a saw cut across paved entrances, as directed by the Contract Administrator and shall butt the new pavement to existing driveway pavement along the butt joint so created. All preparation work will be done by the contractor.

Where paving is an overlay, the overlay paving shall be feathered out to blend to existing pavement on entrances.

GENERAL FOR ALL GRANULAR 'M' ITEMS

Work under this item shall consist of the restoration of the gravel entrances adjacent to surface treatment at the locations specified.

Granular is supplied from a quarry operation.

Where residential driveways are surfaced with crushed stone, the Contractor shall, as part of the work under this item, place, level and compact sufficient material beyond the width of the shoulder to blend the driveway surface into the new shoulder of the road. All labour and equipment required to blend gravel driveways into the new shoulders shall be included in the item price for Granular "M".

Granular entrances shall be placed within two working days of surface treatment of the surface course.

GENERAL FOR ALL PIPE CULVERT ITEMS

Work under these items shall consist of the replacement of existing pipe culverts at the specified locations and shall include the following:

- earth excavation for removal of the existing pipe
- removal and disposal of the existing pipe (salvageable culverts will be picked up by owner)
- additional excavation for the installation of the new pipe including frost tapers on all cross culverts
- placement and compaction of Granular "A" embedment (bedding and cover) material (Granular 'A' is supplied under a separate item)
- all traffic control and construction of temporary lanes, as required
- preservation of all excavated materials suitable for re-use as Granular "B", as directed by the Contract Administrator
- design and installation of all environmental impact mitigation measures required for compliance

For new pipe culverts the contractor shall supply:

Smooth inside wall polyvinyl chloride (PVC), DR35 or HDPE (Boss 2000)

The class and wall designation for polyvinyl chloride (PVC) and HDPE pipe shall be selected from the appropriate standards in the Contract based on the size of the pipe required and the depth of fill above the pipe specified.

TACK COAT (litres)

Paving shall be feathered out into existing paved entrances so as to provide a smooth, neat transition or, where entrance pavement has been saw cut and removed, the new surface course shall be butted against the existing entranceway pavement. These areas to be tack coated prior to paving.

ITEM NO. 1, 12: HOT MIX HL-3 – MISCELLANEOUS (m²)

Section 310.07 of OPSS 310 November 2008 is amended by the addition of the following;

The Contractor shall be required to perform all saw cutting of all joints, including asphalt entranceways and side roads, as directed by the Engineer. All costs, including removal and disposal of the asphaltic concrete, re-grading and compaction of granular base materials and related work, shall be included under the tender unit price for this item.

The depth of hot mix asphalt applied to boulevards/driveways shall be 50 mm compacted thicknesses.

The edge of asphalt shall extend out to meet the proposed edge of the Surface Treatment.

Item No. 1:

Paved Driveway Estimated Quantity

Length: 4.0 m
Width: 24.0 m **Total Estimated Quantity: 96 m²**

Item No. 12:

Paved Driveway Estimated Quantity

Length: 4.0 m
Width: 42.0 m **Total Estimated Quantity: 168 m²**

ITEM NO. 2, 13: GRANULAR "A" (tonnes)

Work under these items shall consist of the supply, placement and compaction of new Granular "A" base in the areas of bedding and backfill for pipe culverts. Minimum of 100 percent compaction is required for all Granular "A" material. Compaction test will be done by the owner.

Granular is supplied from a quarry operation.

Item No. 2:

Driveway Culverts Estimated Quantity

Length: 185 m
Width: 3.0 m
Depth (Nominal): 1± m **Estimated Quantity: 1,400 tonnes**

Road Culverts Estimated Quantity

Length: 24 m
Width: 10 m
Depth (Nominal): 1± m **Estimated Quantity: 600 tonnes**

Total Estimated Quantity: 2,000 tonnes

Item No. 13:

Driveway Culverts Estimated Quantity

Length: 102 m
Width: 3.0 m
Depth (Nominal): 1± m **Estimated Quantity: 800 tonnes**

Total Estimated Quantity: 800 tonnes

ITEM NO. 3, 14: GRANULAR "B" TYPE 2 (tonnes)

Work under this item shall consist of the supply, placement and compaction of 200 mm of new granular base material throughout the scarified area. The road shall be scarified prior to placing the Granular "B" Type 2. The material shall be graded and compacted to a minimum of 100%. The owner will have the compaction test done.

Item No 3:

Road Estimated Quantity

Length:	1,800 m		
Width:	7.15 m		
Depth (Nominal)	0.20 m	Estimated Quantity:	6,500 tonnes

Total Estimated Quantity: 6,500 tonnes

Item No 14:

Road Estimated Quantity

Length:	1,500 m		
Width:	7.15 m		
Depth (Nominal)	0.20 m	Estimated Quantity:	5,400 tonnes

Total Estimated Quantity: 5,400 tonnes

ITEM NO. 4, 15: GRANULAR "M" (tonnes)

Work under this item shall consist of the supply, placement and compaction of 200 mm of new granular base material throughout the area. The material shall be graded and compacted to a minimum of 100%. The owner will have the compaction test done.

Item No 4:

Road Estimated Quantity

Length:	1,900 m		
Width:	7.10 m		
Depth (Nominal)	0.20 m	Estimated Quantity:	6,800 tonnes

Driveways Estimated Quantity

Length:	150 m		
Width:	4.0 m		
Depth (Nominal):	0.20 m	Estimated Quantity:	300 tonnes
Entranceways (25) @ 7 tonnes:		Estimated Quantity:	175 tonnes

Total Estimated Quantity: 7,050 tonnes

Item No 15:

Road Estimated Quantity

Length:	2,000 m		
Width:	7.10 m		
Depth (Nominal)	0.20 m	Estimated Quantity:	7,200 tonnes

Driveways Estimated Quantity

Length:	76.0 m		
Width:	4.0 m		
Depth (Nominal):	0.20 m	Estimated Quantity:	175 tonnes
Entranceways (25) @ 7 tonnes:		Estimated Quantity:	175 tonnes

Total Estimated Quantity: 7,500 tonnes

ITEM NO. 6, 7, 8, 17: FLEXIBLE PIPE CULVERTS (metres)

Work under these items shall include the removal and disposal of existing CSP culverts and supply and installation of new flexible pipe culverts.

Material suitable for re-use as granular sub-base will be stockpiled adjacent to the excavation and used in backfilling. Material unsuitable for use as granular will be loaded, hauled and dumped at contractor arranged disposal sites unless directed elsewhere by Contract Administrator or Owner.

Granular "A" for pipe bedding and backfill shall be supplied under the applicable contract item.

Payment under this item shall include all labour and equipment required to complete removals and disposals specified and to supply and install the new culvert in accordance with OPSS 421.

ITEM NO. 9, 18: EARTH DITCH CLEANOUT (metres)

Work under this item shall include the following:

- Ditch cleaning and re- grading to create positive flow
- Use suitable earth material to pull against shoulders if directed by Contract Administrator
- Loading unsuitable earth material into trucks and disposing at contractors expense

ITEM NO. 10, 19: TOPSOIL, IMPORTED:

The unit bid price for the above tender item shall be full compensation for all labour, equipment, and material to place, as a minimum 75 mm of imported topsoil where there are insufficient qualities of native soil, in accordance with OPSS 802 and as directed by the Contract Administrator.

Topsoil shall be placed in areas directed by the Contract Administrator, extending from the edge of the granular road base (bottom of Granular A) to the top of ditch, to tie in with existing grassed areas.

ITEM NO. 11, 20: HYDRO SEEDING AND MULCH:

The unit bid price for the above tender item shall be full compensation for all labour, equipment, and material to place hydro seed, water and fertilizer in accordance with OPSS 804 and as directed by the Contract Administrator.

On completion of any section of seeding, shall be saturated with water. Watering shall be continued daily for a minimum of two (2) weeks and for a further two (2) weeks when so directed by the Engineer.

Payment at the contract price for the above tender item shall be full compensation for all labour, equipment and material required to do the work. Measurement for payment is by Plan Quantity, as may be revised by Adjusted Plan Quantity, in square meters.