COUNTY GOVERNMENT OF NANDI

DEPARTMENT OF TRANSPORT AND INFRASTRUCTURE
(RMLF BY KRB)

TENDER NUMBER: NDCG/RMLF/RDS/TN/022/2018-2019
FOR

ROUTINE MAINTENANCE AND SPOT IMPROVEMENT OF LEMOOK-KABRUCE-KAPSIKIRYO-KAMOTONG ROAD

- **INVITATION FOR TENDERS**
- **INSTRUCTIONS TO BIDDERS**
- **QUALIFICATION CRITERIA**
- **CONDITIONS OF CONTRACT**
- **SPECIFICATIONS, AND DRAWINGS**
- **BILLS OF QUANTITIES AND**
- **STANDARD FORMS**

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ISSUE DATE: 25TH SEPTEMBER, 2018
CLOSING DATE: 18TH OCTOBER, 2018
OPEN

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INTRODUCTION

This standard tender document for procurement of works has been prepared for use by County Government of Nandi in Kenya in the procurement of works

SECTION I
INVITATION FOR TENDERS
DATE: 18TH OCTOBER, 2018
Tender reference: NDCG/RMLF/RDS/TN/022/2018-2019

1.1 County Government of Nandi invites sealed tenders for the maintenance of roads Within Nandi County.

MANDATORY REQUIREMENTS

1. Certified Copy of certificates of incorporation.
2. Site visit certificate.
3. A copy of KRA Pin Certificate
4. A Copy of valid Tax compliance certificate
5. Duly filled, signed and stamped confidential business questionnaire
6. A copy of registration with the National Construction Authority (NCA 7 and above and valid practicing license)
7. Certified Copies of Company Registration Certificate (CR 12) and National ID/Passport for all Directors
8. A proof of works of similar magnitude and completed undertaken in the last two (2) years
9. A copy of valid single business permit
10. Adequate equipment and key personnel for the specified type of works
11. Sound financial standing and adequate access to bank credit line
12. Must submit original Bid Bond of Ksh.40,000
13. Dully filled, signed and stamped form of tender
14. **SERIALIZATION** of ALL tender document pages including any annexures and standard forms is **MANDATORY**
15. Contractors with incomplete/pending works or record of non-performance with County Government of Nandi would not be considered for any award.

Interested eligible candidates may obtain further information and inspect tender documents **County Government of Nandi Official Website** **www.nandi.go.ke.**

Prices quoted should be net inclusive of all taxes, must be in Kenya shillings and shall remain valid for (120) one hundred and twenty days from the closing date of tender.

Completed tender documents are to be enclosed in plain sealed envelopes marked with Tender name and reference number and deposited in the Tender Box at Former Kapsabet Municipal Council or to be addressed to **The County Secretary** so as to be received on or before **18th October, 2018.**

Tenders will be opened immediately thereafter in the presence of the candidates or their representatives who choose to attend at Former Municipal Hall at **11:00 am**.

Tenders shall remain valid for a period of **One Twenty (120**) days from the date of submission.

SECTION II - INSTRUCTIONS TO TENDERERS

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INSTRUCTIONS TO TENDERERS.

1. General

1.1 The Employer as defined in the Appendix to Conditions of Contract invites tenders for Works Contract as described in the tender documents. The successful Tenderer will be expected to complete the Works by the Intended Completion Date specified in the said Appendix.

1.2 Tenderers shall include the following information and documents with their tenders, unless otherwise stated:

(a) All documents must be bound for each bid submitted. All forms filled appropriately
(b) Copies of certificates of registration, and principal place of business;
(c) Total monetary value of construction work performed for each of the last three years;
(d) Experience in works of a similar nature and size for each of the last five years, and clients who may be contacted for further information on these contracts;
(e) Major items of construction equipment owned;
(f) Qualifications and experience of key site management and technical personnel proposed for the Contract;
(g) Reports on the financial standing of the Tenderer, such as profit and loss statements and auditor's reports for the last three years;
(h) Authority to seek references from the Tenderer's bankers.
(i) Registration with National Construction Authority for the applicable class valid at the date of tender of submission
(j) Certificate of Incorporation
(k) Valid current Tax compliance certificate
(l) PIN registration certificate
(m) Current litigation information
(n) Bid security of Kes Forty Thousand (40,000) from a bank and must be valid for **150** days
(o) Eligibility - Copy of National ID or passport for all Directors

1.3 The Tenderer shall bear all costs associated with the preparation and submission of his tender, and the Employer will in no case be responsible or liable for those costs.

1.4 The Tenderer, at the Tenderer's own responsibility and risk, is encouraged to visit and examine the Site of the Works and its surroundings, and obtain all information that may be necessary for preparing the tender and entering into a contract for construction of the Works. The costs of visiting the Site shall be at the Tenderer's own expense.

1.2 The procurement entity's employees, committee members and their relative (spouse and children) are not eligible to participate in the tender.

1.3 Submit a performance guarantee of 10% of Tender sum from a BANK upon receipt of award of contract

2. Tender Documents

2.1 The complete set of tender documents comprises the documents listed here below and any addenda issued in accordance with clause 2.4 here below:-

(a) The instructions to Tenderers
(b) Form of Tender
(c) Conditions of Contract and Appendix to Form of Agreement
(d) Specifications
(e) Drawings
(f) Bills of Quantities
(g) Other materials required to be filled and submitted in accordance with these Instructions and Conditions

2.2 The Tenderer shall examine all instructions, forms and specifications in the tender documents. Failure to furnish all information required by the tender documents may result in rejection of his tender.

2.3 A prospective Tenderer making inquiry of the tendering documents may notify the Employer in writing or by cable, telex or facsimile at the address indicated in the letter of invitation to tender. The Employer will respond to any request for clarification received earlier than seven [7] days prior to the deadline for submission of tenders. Copies of the Employer's response will be forwarded to all persons issued with tendering documents, including a description of the inquiry, but without identifying its source.

2.4 Before the deadline for submission of tenders, the Employer may modify the tendering documents by issuing addenda. Any addendum thus issued shall be part of the tendering documents and shall be communicated in writing or by cable, telex or facsimile to all Tenderers. Prospective Tenderers shall acknowledge receipt of each addendum in writing to the Employer.

2.5 To give prospective Tenderers reasonable time in which to take an addendum into account in preparing their tenders, the Employer shall extend, as necessary, the deadline for submission of tenders in accordance with clause 4.2 here below.

3. Preparation of Tenders

3.1 All documents relating to the tender and any correspondence shall be in English Language.

3.2 The tender submitted by the Tenderer shall comprise the following:-

(a) The Tender;

(b) Tender Security;

(c) Priced Bill of Quantities for lump-sum Contracts

(d) Any other materials required to be completed and submitted by Tenderers.

3.3 The Tenderer shall fill in rates and prices for all items of the Works described in the Bill of Quantities. Items for which no rate or price is entered by the Tenderer will not be paid for when executed and shall be deemed covered by the other rates and prices in the Bill of Quantities. All duties, taxes and other levies payable by the Contractor under the Contract, as of 30 days prior to the deadline for submission of tenders, shall be included in the tender price submitted by the Tenderer.

3.4 The rates and prices quoted by the Tenderer shall not be subject to any adjustment during the performance of the Contract.

3.5 The unit rates and prices shall be in Kenya Shillings.

3.6 Tenders shall remain valid for a period of **One Twenty (120**) days from the date of submission. However in exceptional circumstances, the Employer may request that the Tenderers extend the period of validity for a specified additional period. The request and the Tenderers' responses shall be made in writing.

3.7 The Tenderer shall prepare one original of the documents comprising the tender documents as described in these Instructions to Tenderers.

3.8 The original shall be typed or written in indelible ink and shall be signed by a person or persons duly authorized to sign on behalf of the Tenderer. All pages of the tender where alterations or additions have been made shall be initialed by the person or persons signing the tender.

3.9 Clarification of tenders shall be requested by the tenderer to be received by the procuring entity not later than 7 days prior to the deadline for submission of tenders.

3.10 The procuring entity shall reply to any clarifications sought by the tenderer within **7 days** of receiving the request to enable the tenderer to make timely submission of its tender.

4. Submission of Tenders

4.1 The tender duly filled and sealed in an envelope shall;-

(a) be addressed to the Employer at the address provided in the invitation to tender;

(b) bear the name and identification number of the Contract as defined in the invitation to tender; and

(c) provide a warning not to open before the specified time and date for tender opening.

4.2 Tenders shall be delivered to the Employer at the address specified above not later than the time and date specified in the invitation to tender.

4.3 The tenderer shall not submit any alternative offers unless they are specifically required in the tender documents.

Only one tender may be submitted by each tenderer. Any tenderer who fails to comply with this requirement will be disqualified.

4.4 Any tender received after the deadline for opening tenders will be returned to the tenderer un-opened.

4.5 The Employer may extend the deadline for submission of tenders by issuing an amendment in accordance with sub-clause 2.5 in which case all rights and obligations of the Employer and the Tenderers previously subject to the original deadline will then be subject to the new deadline.

5. Tender Opening and Evaluation

5.1 The tenders will be opened in the presence of the Tenderers' representatives who choose to attend at the time and in the place specified in the invitation to tender.

5.2 The Tenderers' names, the total amount of each tender including any modification and number of pages submitted, will be announced at the opening by the Employer. Minutes of the tender opening, including the information disclosed to those present will also be prepared by the Employer.

5.3 Information relating to the examination, clarification, evaluation and comparison of tenders and recommendations for the award of the Contract shall not be disclosed to Tenderers or any other persons not officially

concerned with such process until the award to the successful Tenderer has been announced.

Any effort by a Tenderer to Influence the Employer's officials, processing of tenders or award decisions may result in the rejection of his tender

5.4 Tenders determined to be substantially responsive will not be checked for errors and shall not be affected by:

(a) Minor deviation that does not materially depart from the requirements set out in the tender document.

(b) Errors or oversight that can be corrected without affecting the substance of the tender

(c) The tender sum as submitted and read out during the tender opening shall be absolute and final and shall not be the subject of correction, adjustment or amendment in any way by any person or entity.

5.5 The tender evaluation committee shall evaluate the tender within 30 days of the validity period from the date of opening the tender.

5.6 Contract price variations shall not be allowed for contracts not exceeding one year (12 months)

5.7 Where contract price variation is allowed, the valuation shall not exceed 25% of the original contract price.

5.8 Price variation requests shall be processed by the procuring entity within 30 days of receiving the request

5.9 To assist in the examination, evaluation, and comparison of tenders, the Employer at his discretion, may request [in writing] any Tenderer for clarification of the tender, including breakdowns of unit rates. The request for clarification and the response shall be in writing or by cable, telex or facsimile but no change in the tender price or substance of the tender shall be sought, offered or permitted.

5.10 The Tenderer shall not influence the Employer on any matter relating to his tender from the time of the tender opening to the time the Contract is awarded. Any effort by the Tenderer to influence the Employer or his employees in his decision on tender evaluation, tender comparison or Contract award may result in the rejection of the tender.

6. Award of Contract

6.1 The award of the Contract will be made to the Tenderer who has offered **the most responsive evaluated tender.**

6.2 Notwithstanding the provisions of clause 6.1 above, the Employer reserves the right to accept or reject any tender and to cancel the tendering process and reject all tenders at any time prior to the award of Contract without thereby incurring any liability to the affected Tenderer or Tenderers or any obligation to inform the

affected Tenderer or Tenderers of the grounds for the action.

6.3 The Tenderer whose tender has been accepted will be notified of the award prior to expiration of the tender validity period in writing or by cable, telex or facsimile. This notification (hereinafter and in all Contract documents called the "Notification of award") will state the sum [hereinafter and in all Contract documents called the "Contract Price" which the Employer will pay the Contractor in consideration of the execution, completion, and maintenance of the Works by the Contractor as prescribed by the Contract. The contract shall be formed on the parties signing the contract. At the same time the other tenderers shall be informed that their tenders have not been successful.
The Contract Agreement will incorporate all agreements between the Employer and the successful Tenderer. It will be signed by the Employer and sent to the successful Tenderer, within 30 days following the notification of award. Within 21 days of receipt, the successful Tenderer will sign the Agreement and return it to the Employer. 6.5 Within 21 days after receipt of the Letter of Acceptance, the successful Tenderer shall deliver to the Employer a Performance Security amount stipulated in the Appendix to Conditions of Contract.

6.6 The parties to the contract shall have it signed within 30 days from the date of notification of contract award unless there is an administrative review request.
6.7 The procuring entity may at any time terminate procurement proceedings before contract award and shall not be liable to any person for the termination.

6.8 The procuring entity shall give prompt notice of the termination to the tenderers and on request give its reasons for termination within 14 days of receiving the request from any tenderer.

7. Corrupt and fraudulent practices

7.1 The procuring entity requires that the tenderer observes the highest standard of ethics during the procurement process and execution of the contract. A tenderer shall sign a declaration that he has not and will not be involved in corrupt and fraudulent practices.

7.2 The procuring entity will reject a tender if it determines that the tenderer recommended for award has engaged in corrupt and fraudulent practices in competing for the contract in question.

7.3 Further a tenderer who is found to have indulged in corrupt and fraudulent practices risks being debarred from participating in public procurement in Kenya.

SECTION III
QUALIFICATION CRITERIA
1.0 Preliminary examination

	Criteria	PASS/FAIL
1.	Certified Copy of certificate of incorporation.	
2.	Site visit certificate.	
3.	A copy of KRA Pin Certificate	
4.	A Copy of valid Tax compliance certificate	
5.	Duly filled, signed and stamped confidential business questionnaire	
6.	A copy of registration with the National Construction Authority (NCA 7 and above) and valid practicing license	
7.	Certified Copies of Company Registration Certificate (CR 12) and National ID/Passport for all Directors	
8.	A proof of works of similar magnitude and completed undertaken in the last two (2) years	
9.	A copy of valid single business permit	
10.	Adequate equipment and key personnel for the specified type of works	
11.	Must submit original Performance Bond of Ksh.40,000	
12.	Dully filled, signed and stamped form of tender	
13.	**SERIALIZATION** of ALL tender document pages including any annexures and standard forms is **MANDATORY**	
14.	No current incomplete/pending works or record of non-performance with County Government of Nandi	

TECHNICAL EVALUATION			Max
			Score
BID SECURITY			
Legal Capacity	1. 10% of the estimated budget from a bank and Must be valid for **150** days		.00
	3. Pending Litigation (Attach Litigation history)		1.00
TOTAL (Legal Capacity)			**6.00**
(B) Financial performance			
Financial performances	Submission of audited financial statements for the last three [3] years to demonstrate:		
	(a) the current soundness of the applicants financial position and its prospective long term profitability, for the three years (2014, 2015 and 2016). Profitability Rations Current Assets/Current Liabilities (2marks for each year if ratio is 2:1)		6.00
	(b) capacity to have a cash flow amount of min Kshs Five Million equivalent working capital for the three years		4.00
	c)Minimum average annual construction turnover of Kshs Five million, calculated as total certified payments received for contracts in progress or completed, within the last 3 years		6.00
TOTAL (Financial performance)			**16.00**
(C) Construction experience			
Criteria	Description		**Max**
Construction experience	(A)General Construction Experience		**Score**

	Experience under construction contracts in the role of contractor, subcontractor, or management contractor for at least the last 3 year prior to the applications submission deadline (Attach copies of Contracts, LSO's and completion certificates-5Marks each)		15.00
	B)Specific Construction		
	Experience Participation as contractor, management contractor or subcontractor, in at least three (3) contracts within the last two (2) years, each with a value of at least KShs. 5,000,000), that have been successfully and substantially completed and that are similar to the proposed works. The similarity shall be based on the physical size, complexity, methods/technology or other characteristics as described in Scope of Works (Attach proof of Contracts, LSO's or completion certificates specific to roads-5Marks each)		25.00
	(C) Work methodology		
	Methodology for implementing of works (Submit in Gantt chart form)		4.00
TOTAL (construction experience)			**44.00**

(D) Equipment Holding		
Equipment holding	Minimum number of Equipment	
	The bidder must indicate the minimum the core plant and equipment considered by the company to be necessary for undertaking the project together with proof of ownership (Attach Copies of Log books or lease agreements for Motor Grader, backhoe/Excavator, dozer, Roller and Tippa Lorry-provide any -3)	10.00
TOTAL (Equipment holding Requirements)		**10.00**

(E) Current Commitments Criteria		
	Description	
On-going contracts	The total value of current works on the on-going contracts must not exceed KShs. 10 million	1.00
TOTAL (current commitment)		**1.00**

(F) key personnel		
	(i) Head quarter staff : Directors ,accountants, procurement ,admin,etc;	5.00
	(ii) Site agent	5.00
	(iii) Foreman	5.00
	(iv)Site Engineer **Note : Attach copies of certificates for all**	5.00
TOTAL (key personnel)		**20.00**
(G) other statutory declaration requirements and commitments		
Declarations	Declaration	
	(I) Fraud & corruption	1.00
	(ii) Environmental and social commitments	1.00
	(iii) Debarment declaration	1.00
TOTAL (other statutory declaration requirements and commitments)		**3.00**
GRAND TOTAL	(Totals for; A, B, C, D, E, F & G)	**100.00**
Award Criteria	The lowest evaluated firm after attaining the Minimum technical score of 70% and the firm has not been awarded more than two of these RMLF Tenders shall be recommended for award)	

SECTION IV

CONDITIONS OF CONTRACT, PART I – GENERAL CONDITIONS

(a) Definitions

1.1 In this Contract, except where context otherwise requires, the following terms shall be interpreted as indicated;

"Bills of Quantities" means the priced and completed Bill of Quantities forming part of the tender [where applicable].

"Schedule of Rates" means the priced Schedule of Rates forming part of the tender [where applicable].

"The Completion Date" means the date of completion of the Works as certified by the Employer's Representative.

"The Contract" means the agreement entered into by the Employer and the Contractor as recorded in the Agreement Form and signed by the parties.

"The Contractor" refers to the person or corporate body whose tender to carry out the Works has been accepted by the Employer.

"The Contractor's Tender" is the completed tendering document submitted by the Contractor to the Employer.

"The Contract Price" is the price stated in the Letter of Acceptance.

"Days" are calendar days; "Months" are calendar months.

"A Defect" is any part of the Works not completed in accordance with the Contract.

"The Defects Liability Certificate" is the certificate issued by Employer's Representative upon correction of defects by the Contractor.

"The Defects Liability Period" is the period named in the Appendix to Conditions of Contract and calculated from the Completion Date.

"Drawings" include calculations and other information provided or approved by the Employer's Representative for the execution of the Contract.

"Employer" Includes Central or County Government administration, Universities, Public Institutions and Corporations and is the party who employs the Contractor to carry out the Works.

"Equipment" is the Contractor's machinery and vehicles brought temporarily to the Site for the execution of the Works.

"Site" means the place or places where the permanent Works are to be carried out including workshops where the same is being prepared.

"Materials" are all supplies, including consumables, used by the Contractor for incorporation in the Works.

"Employer's Representative" is the person appointed by the Employer and notified to the Contractor for the purpose of supervision of the Works.

"Specification" means the Specification of the Works included in the Contract.

"Start Date" is the date when the Contractor shall commence execution of the Works.

" A Subcontractor" is a person or corporate body who has a Contract with the

Contractor to carry out a part of the Work in the Contract, which includes Work on the Site.

"Temporary works" are works designed, constructed, installed, and removed by the Contractor which are needed for construction or installation of the Works.

" A Variation" is an instruction given by the Employer's Representative which varies the Works.

"The Works" are what the Contract requires the Contractor to construct, install, and turnover to the Employer.

2 Contract Documents

2.1 The following documents shall constitute the Contract documents and shall be interpreted in the following order of priority;

18. Agreement,
19. Letter of Acceptance,
20. Contractor's Tender,
21. Conditions of Contract,
22. Specifications,
23. Drawings,
24. Bills of Quantities

4 Employer's Representative's Decisions

4.2 Except where otherwise specifically stated, the Employer's Representative will decide contractual matters between the Employer and the Contractor in the role representing the Employer.

3 Works, Language and Law of Contract

4.1The Contractor shall construct and install the Works in accordance with the Contract documents. The Works may commence on the Start Date and shall be carried out in

accordance with the Program submitted by the Contractor, as updated with the approval of the Employer's Representative, and complete them by the Intended Completion Date.
4.2The ruling language of the Contract shall be English language and the law governing the Contract shall be the law of the Republic of Kenya.

4 Safety, Temporary works and Discoveries

5.1The Contractor shall be responsible for design of temporary works and shall obtain approval of third parties to the design of the temporary works where required.

5.2The Contractor shall be responsible for the safety of all activities on the Site.

5.3Any thing of historical or other interest or significant value unexpectedly discovered on the Site shall be the property of the Employer. The Contractor shall notify the Employer's Representative of such discoveries and carry out the Employer's Representative's instructions for dealing with them.

6 Work Program and Sub-contracting

6.1 Within seven days after Site possession date, the Contractor shall submit to the Employer's Representative for approval a program showing the general methods, arrangements, order and timing for all the activities in the Works.

6.2 The Contractor may sub-contract the Works (but only to a maximum of 25 percent of the Contract Price) with the approval of the Employer's Representative. However, he shall not assign the Contract without the approval of the Employer in writing. Sub-contracting shall not alter the Contractor's obligations.

7 The site

7.1 The Employer shall give possession of all parts of the Site to the Contractor.
7.2 The Contractor shall allow the Employer's Representative and any other person authorized by the Employer's Representative ,access to the Site and to any place where work in connection with the Contract is being carried out or is intended to be carried out.

8 Instructions

8.1 The Contractor shall carry out all instructions of the Employer's Representative which are in accordance with the Contract.

9 Extension of Completion Date

9.1 The Employer's Representative shall extend the Completion Date if an occurrence arises which makes it impossible for completion to be achieved by the Intended Completion Date. The Employer's Representative shall decide whether and by how much to extend the Completion Date.

9.2 For the purposes of this clause, the following occurrences shall be valid for consideration; Delay by :-

a) force reason of any exceptionally adverse weather conditions,

or

b) reason of civil commotion, strike or lockout affecting any of the trades employed upon the Works or any of the trades engaged in the preparation, manufacture or transportation of any of the goods or materials required for the Works, or

c) reason of the Employer's Representative's instructions issued under these Conditions, or

d) reason of the contractor not having received in due time necessary instructions, drawings, details or levels from the Employer's

e) Representative for which he specifically applied in writing on a date which having regard to the date for Completion stated in the appendix to these Conditions or to any extension of time then fixed under this clause was neither unreasonably distant from nor unreasonably close to the date on which it was necessary for him to receive the same, or

f) delay on the part of artists, tradesmen or others engaged by the Employer in executing work not forming part of this Contract, or

g) Reason of delay by statutory or other services providers or similar bodies engaged directly by the Employer, or

h) Reason of opening up for inspection of any Work covered up or of the testing or any of the Work, materials or goods in accordance with these conditions unless the inspection or test showed that the Work, materials or goods were not in accordance with this Contract, or

i) reason of delay in appointing a replacement Employer's Representative, or

j) reason of delay caused by the late supply of goods or materials or in executing Work for which the Employer or his agents are contractually obliged to supply or to execute as the case may be, or

k) delay in receiving possession of or access to the Site.

10 Management Meetings

10.1 A Contract management meeting shall be held regularly and attended by the Employer's Representative and the Contractor. Its business shall be to review the plans for the remaining Work. The Employer's Representative shall record the business of management meetings and provide copies of the record to those attending the meeting and the Employer. The responsibility of the parties for actions to be taken shall be decided by the Employer's Representative either at the management meeting or after the management meeting and stated in writing to all who attend the meeting.

10.2 Communication between parties shall be effective only when in writing.

11 Defects

11.1 The Employer's Representative shall inspect the Contractor's work and notify the Contractor of any defects that are found. Such inspection shall not affect the Contractor's responsibilities. The Employer's Representative may instruct the Contractor to search for a defect and to uncover and test any Work that the Employer's Representative considers may

have a defect. Should the defect be found, the cost of uncovering and making good shall be borne by the Contractor. However if there is no defect found, the cost of uncovering and making good shall be treated as a variation and added to the Contract Price.

11.2 The Employer's Representative shall give notice to the Contractor of any defects before the end of the Defects Liability Period, which begins at Completion, and is defined in the Appendix to Form of Tender

11.3 Every time notice of a defect is given, the Contractor shall correct the notified defect within the length of time specified by the Employer's Representative's notice. If the Contractor has not corrected a defect within the time specified in the Employer's Representative's notice, the Employer's Representative will assess the cost of having the defect corrected by other parties and such cost shall be treated as a variation and be deducted from the Contract Price.

12 Bills of Quantities

12.1 The Bills of Quantities shall contain items for the construction, installation, testing and commissioning of the Work to be done by the Contractor. The Contractor will be paid for the quantity of the Work done at the rates in the Bills of Quantities for each item. Items against which no rate is entered by the Tenderer will not be paid for when executed and shall be deemed covered by the rates for other items in the Bills of Quantities.

12.2 Where Bills of Quantities do not form part of the Contract, the Contract Price shall be a lump sum (which shall be deemed to have been based on the rates in the Schedule of Rates forming part of the tender) and shall be subject to re-measurement after each stage.

13 Variations

13.1 The Contractor shall provide the Employer's Representative with a quotation for carrying out the variations when requested to do so. The Employer's Representative shall assess the quotation and shall obtain the necessary authority from the Employer before the variation is ordered.

13.2 If the Work in the variation corresponds with an item description in the Bill of Quantities, the rate in the Bill of Quantities shall be used to calculate the value of the variation. If the nature of the Work in the variation does not correspond with items in the Bill of Quantities, the quotation by the Contractor shall be in the form of new rates for the relevant items of Work.

13.3 If the Contractor's quotation is unreasonable, the Employer's Representative may order the variation and make a change to the Contract Price, which shall be based on the Employer's Representative's own forecast of the effects of the variation on the Contractor's costs.

14 Payment Certificates and Final Account

14.1 The Contractor shall be paid after each of the following stages of Work

listed here below (subject to re-measurement by the Employer's Representative of the Work done in each stage before payment is made). In case of lump-sum Contracts, the valuation for each stage shall be based on the quantities so obtained in the re-measurement and the rates in the Bill of Quantities and the final payment will be made after defects liability period.

14.2 Upon deciding that Works included in a particular stage are complete, the Contractor shall submit to the Employer's Representative his application for payment. The Employer's Representative shall check, adjust if necessary and certify the amount to be paid to the Contractor within 21 days of receipt of the Contractor's application .The Employer shall pay the Contractor the amounts so certified within 30 days of the date of issue of each Interim Certificate.

14.3 The Contractor shall supply the Employer's Representative with a detailed final account of the total amount that the Contractor considers payable under the Contract before the end of the Defects Liability Period. The Employer's Representative shall issue a Defect Liability Certificate and certify any final payment that is due to the Contractor within 30 days of receiving the Contractor's account if it is correct and complete. If it is not, the Employer's Representative shall issue within 21 days a schedule that states the scope of the corrections or additions that are necessary. If the final account is still unsatisfactory after it has been resubmitted, the Employer's Representative shall decide on the amount payable to the Contractor and issue a Final Payment Certificate. The Employer shall pay the Contractor the amount so certified within 60 days of the issue of the Final Payment Certificate.

14.4 If the period laid down for payment to the Contractor upon each of the Employer's Representative's Certificate by the Employer has been exceeded, the Contractor shall be entitled to claim simple interest calculated pro-rata on the basis of the number of days delayed at the Central Bank of Kenya's average base lending rate prevailing on the first day the payment becomes overdue. The Contractor will be required to notify the Employer within 15 days of receipt of delayed payments of his intentions to claim interest.

15 Insurance

15.1 The Contractor shall be responsible for and shall take out appropriate cover against, among other risks, personal injury; loss of or damage to the Works, materials and plant; and loss of or damage to property.

16 Liquidated Damages

16.1 The Contractor shall pay liquidated damages to the Employer at the rate 0.001 per cent of the Contract price per day for each day after the actual Completion Date is later than the Intended Completion Date except in the case of any of the occurrences listed under clause

16.2. The Employer may deduct liquidated damages from payments due to the Contractor. Payment of liquidated damages shall not affect the Contractor's liabilities.

17 Completion and Taking Over

17.1 Upon deciding that the Work is complete the Contractor shall request the

Employer's Representative to issue a Certificate of Completion of the Works, upon deciding that the Work is completed.

The Employer shall take over the Site and the Works within seven days of the Employer's Representative issuing a Certificate of Completion.

18 Termination

18.1 The Employer or the Contractor may terminate the Contract if the other party causes a fundamental breach of the Contract. These fundamental breaches of Contract shall include, but shall not be limited to, the following;

a. the Contractor stops Work for 30 days continuously without reasonable cause or authority from the Employer's Representative;

b. the Contractor is declared bankrupt or goes into liquidation other than for a reconstruction or amalgamation;

c. a payment certified by the Employer's Representative is not paid by the Employer to the Contractor within 30 days after the expiry of the payment periods stated in sub clauses 14.2 and 14.3 hereinabove.

d. The Employer's Representative gives notice that failure to correct a particular defect is a fundamental breach of Contract and the Contractor fails to correct it within a reasonable period of time.

18.2 If the Contract is terminated, the Contractor shall stop Work immediately, and leave the Site as soon as reasonably possible. The Employer's Representative shall immediately thereafter arrange for a meeting for the purpose of taking record of the Works executed and materials, goods, equipment and temporary buildings on Site.

19 Payment Upon Termination

19.1 The Employer may employ and pay other persons to carry out and complete the Works and to rectify any defects and may enter upon the Works and use all materials on Site, plant, equipment and temporary works.

19.2 The Contractor shall, during the execution or after the completion of the Works under this clause, remove from the Site as and when required within such reasonable time as the Employer's Representative may in writing specify, any temporary buildings, plant, machinery, appliances, goods or materials belonging to him, and in default thereof , the Employer may (without being responsible for any loss or damage) remove and sell any such property of the Contractor, holding the proceeds less all costs incurred to the credit of the Contractor.

19.3 Until after completion of the Works under this clause, the Employer shall not be bound by any other provision of this Contract to make any payment to the Contractor, but upon such completion as aforesaid and the verification within a reasonable time of the accounts therefor the Employer's Representative shall certify the amount of expenses properly incurred by the Employer and, if such amount added to the money paid to the Contractor before such determination exceeds the total amount which would have been payable on due completion in accordance with this Contract, the difference shall be a debt payable to the Employer by the Contractor; and if the said amount added to the said money be less than the said total amount, the difference shall be a debt payable by the Employer to the Contractor.

20 Corrupt Gifts and Payments of Commission

20.1 The Contractor shall not;

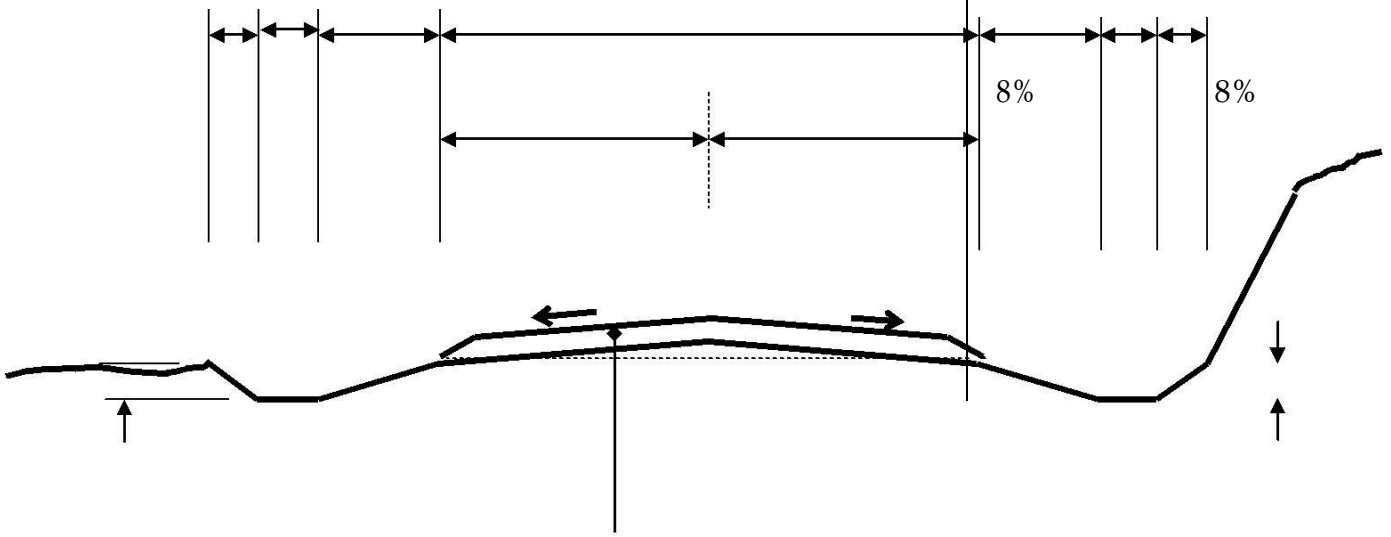
Offer or give or agree to give to any person in the service of the Employer any gifts or consideration of any kind as an inducement or reward for doing or forbearing to do or for having done or forborne to do any act in relation to the obtaining or execution of this or any other contract with the Employer or for showing or forbearing to show favour or disfavour to any person in relation to this or any other contract with the Employer.

Any breach of this Condition by the Contractor or by anyone employed by him or acting on his behalf (whether with or without the knowledge of the Contractor) shall be an offence under the Laws of Kenya.

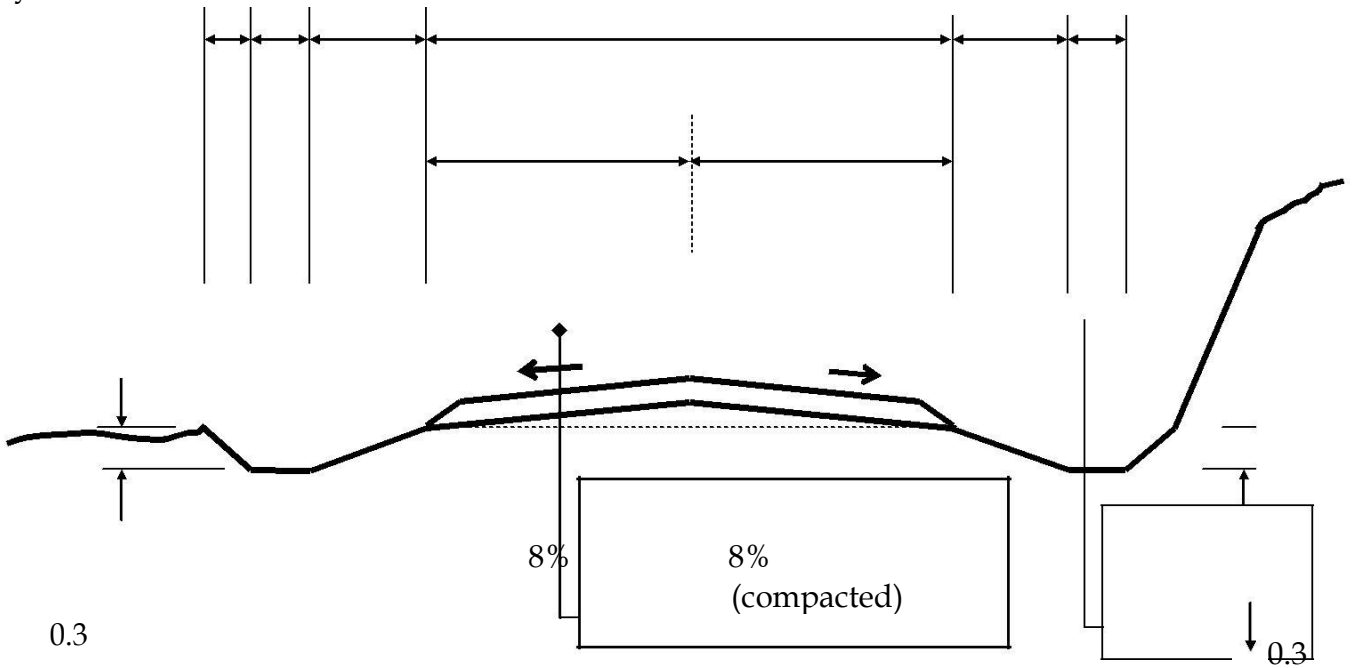
21 Settlement of Disputes

21.1 Any dispute arising out of the Contract which cannot be amicably settled between the parties shall be referred by either party to the arbitration and final decision of a person to be agreed between the parties. Failing agreement to concur in the appointment of an Arbitrator, the Arbitrator shall be appointed by the chairman of the Chartered Institute of Arbitrators, Kenya branch, on the request of the applying party.

SECTION V SPECIFICATION AND DRAWINGS


8%
8%

in.	0.40	1.0	Carriageway	4.50	1.0	0.4	
	2.2						



SECTION

SECTION)

NOTE: - ALL SPECIFIED DIMENSIONS IN m.
Gravel Layer - 0.10
compacted (0.20 on

Backslope
Min. 3 : 2
Max. 3 : 1

FIGURE C.3 - MITRE DRAINS

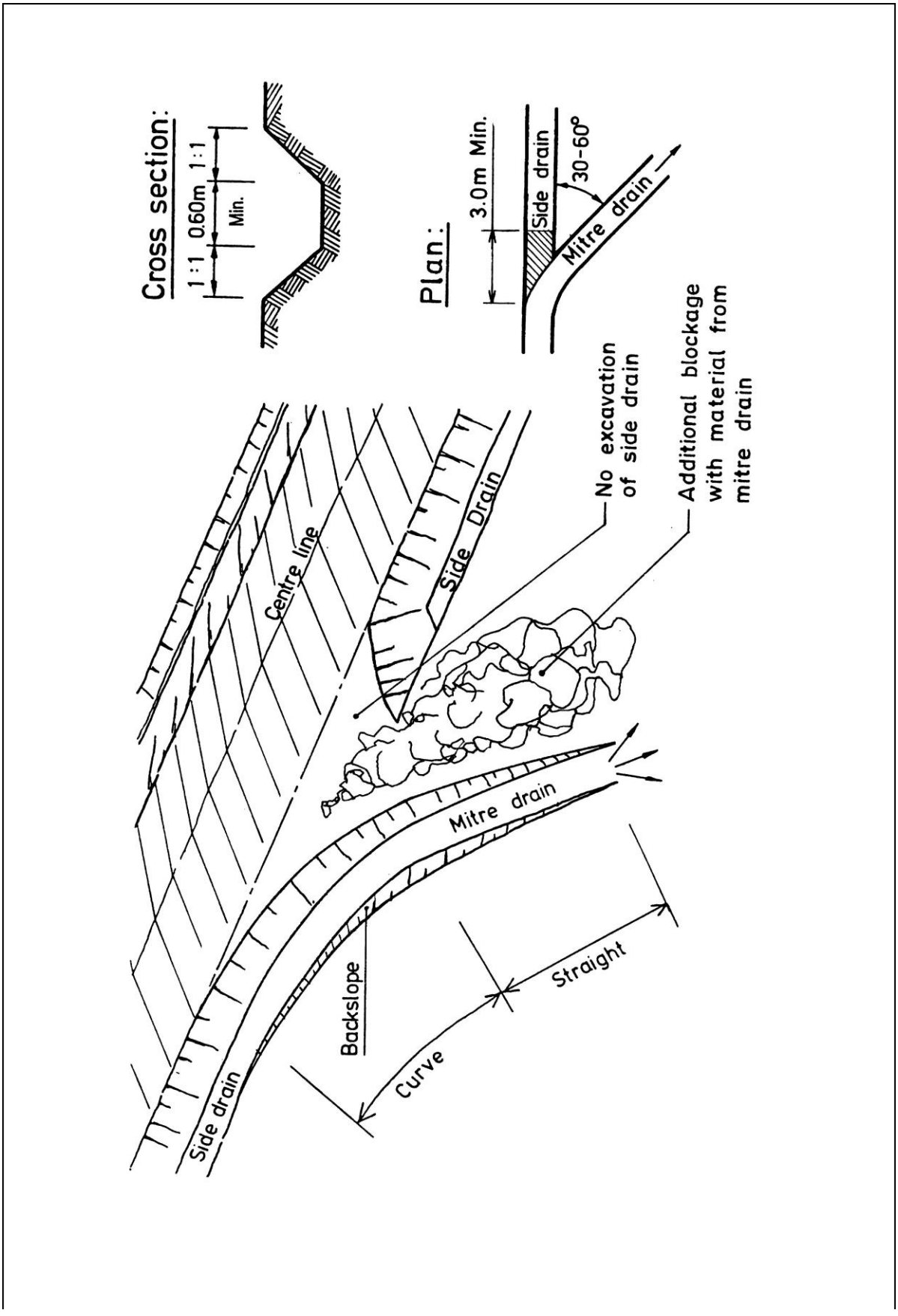


FIGURE C.4 - SCOUR CHECKS

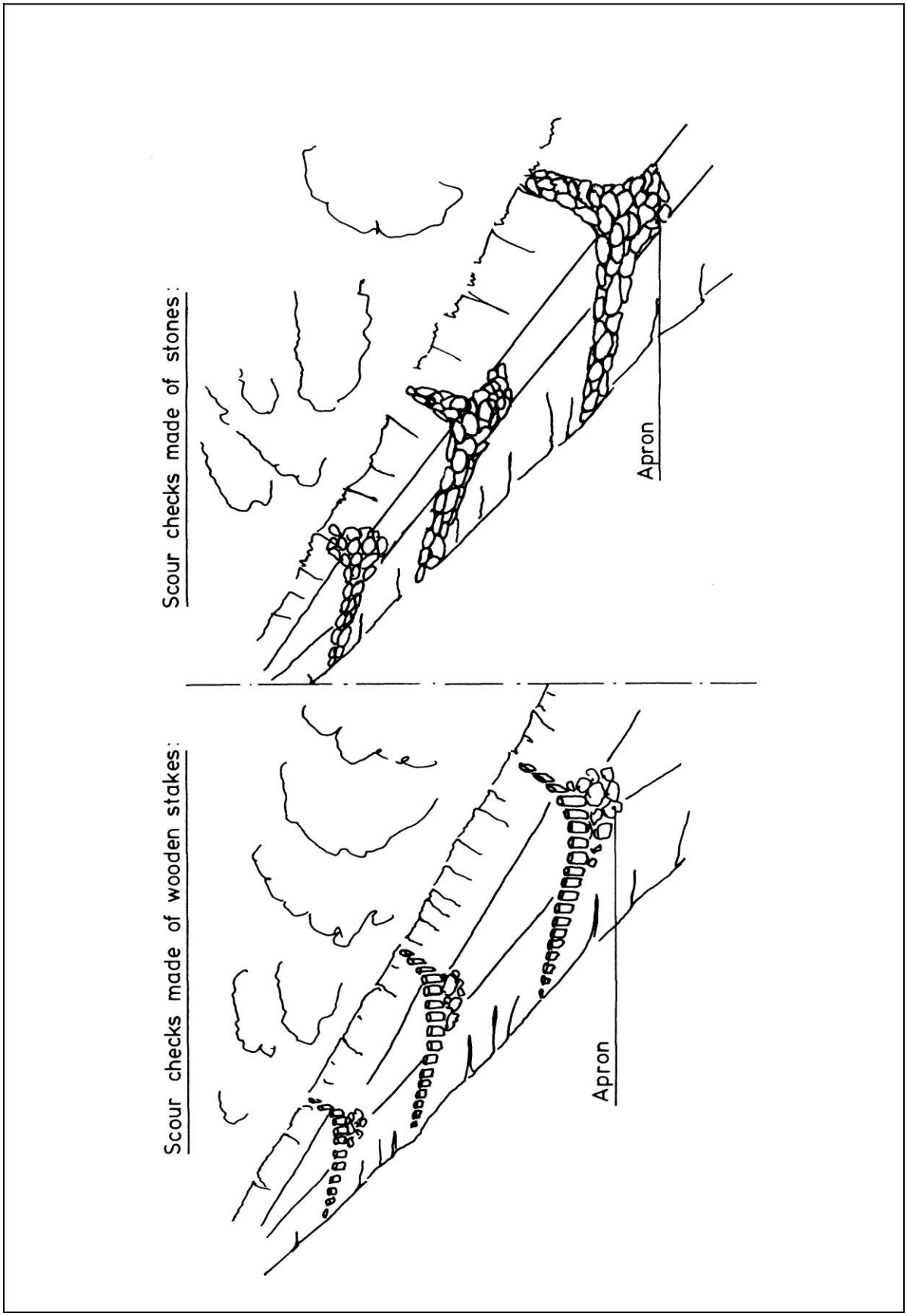


FIGURE C.5 - DIMENSIONS OF SCOUR CHECKS FOR STANDARD DRAIN

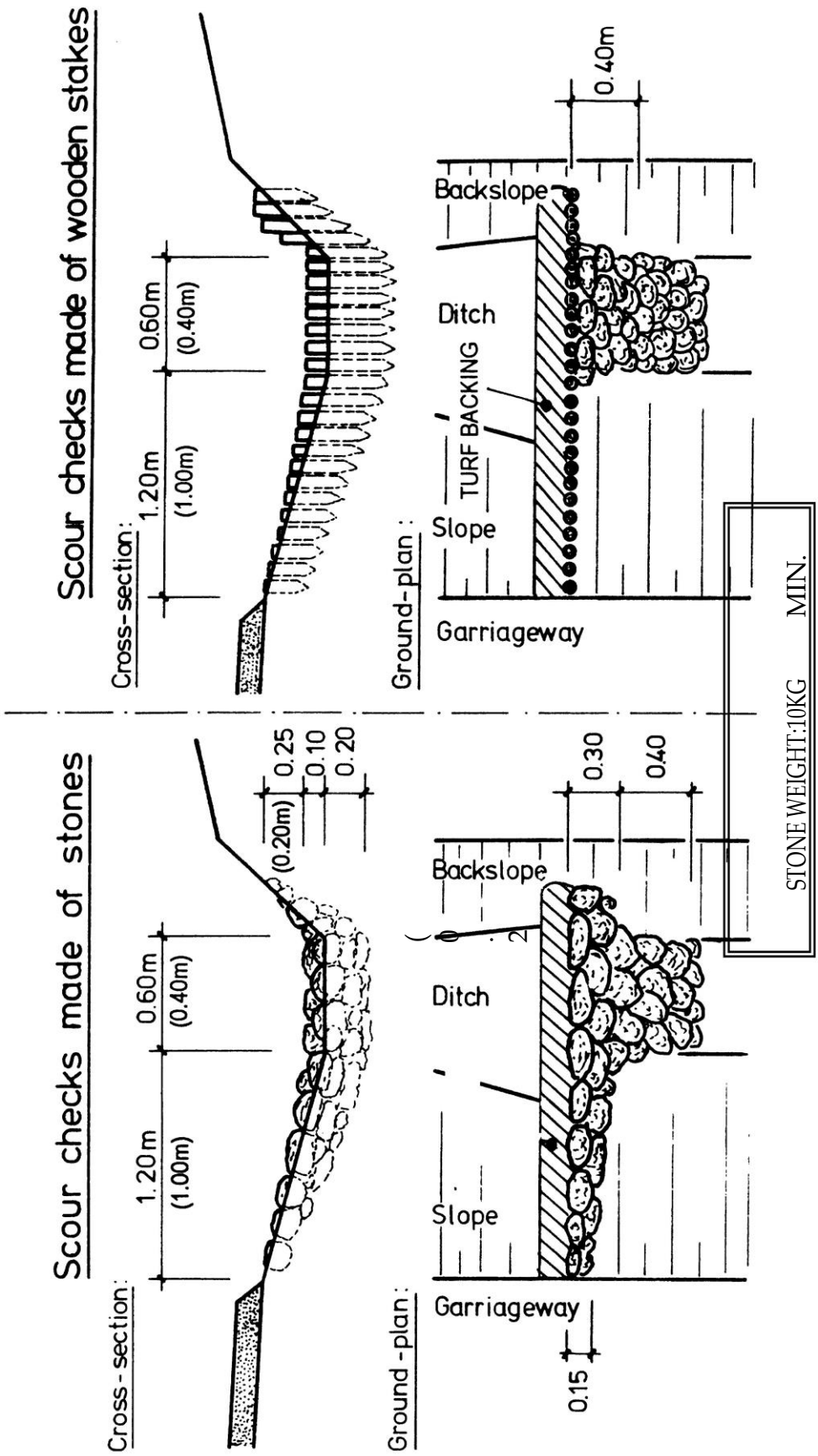
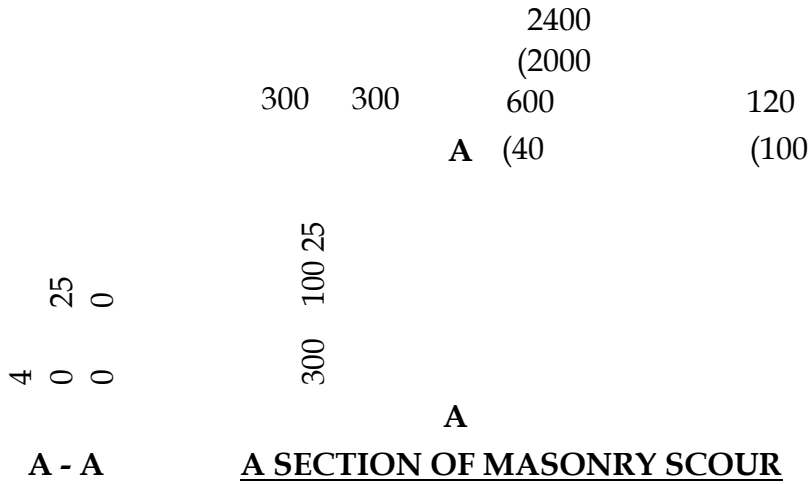
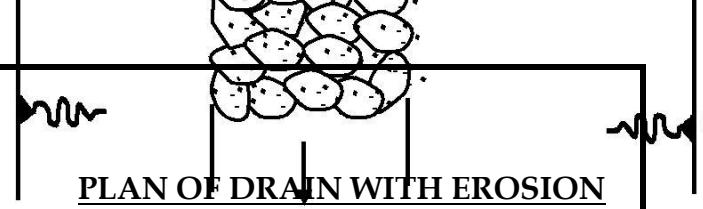


FIGURE C.6 - MASONRY SCOUR CHECKS



PLAN OF DRAIN WITH EROSION CHECKS



QUANTITIES

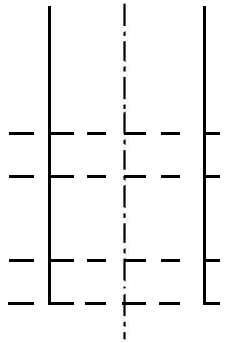
Cross-Section	Sizes in mm			Excav. (m3)	Stone masonry (m3)	Ap sto pitc (m
	Length	Width	Depth			
A	2400	200	550	0.22	0.25	0.
B	2000	200	500	0.18	0.2	0.

CARRIAGEWAY

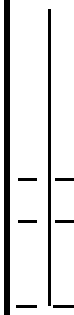
150

FIGURE C.7 - CULVERT ENTRY / EXIT STRUCTURE TYPES

TYPE 1 (ENTRY AND EXIT)

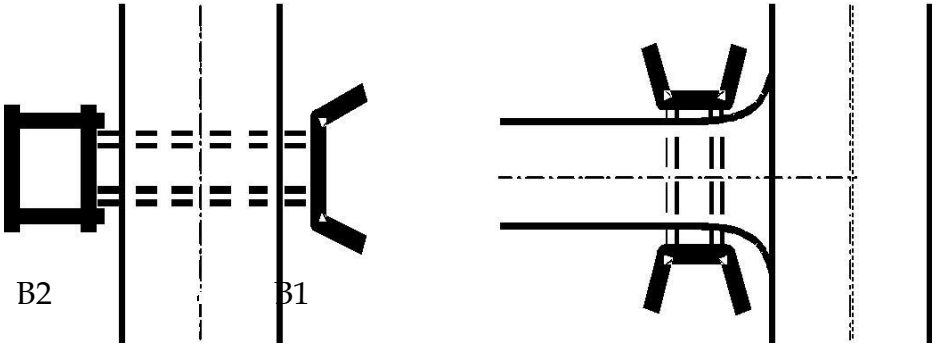


TYPE 3 (ENTRY ONLY)



TYPE 4

(ENTRY AND EXIT ON ACCESS)



76

Masonry or Concrete blocks wingwalls

Concrete

NOTE :

Coding system has been used in describing the standardised designs of the various culvert entry and exit structures. The code names consist of a number to specify shape and function as elaborated in above while the used construction materials are identified through an alphabetic symbol as follows:

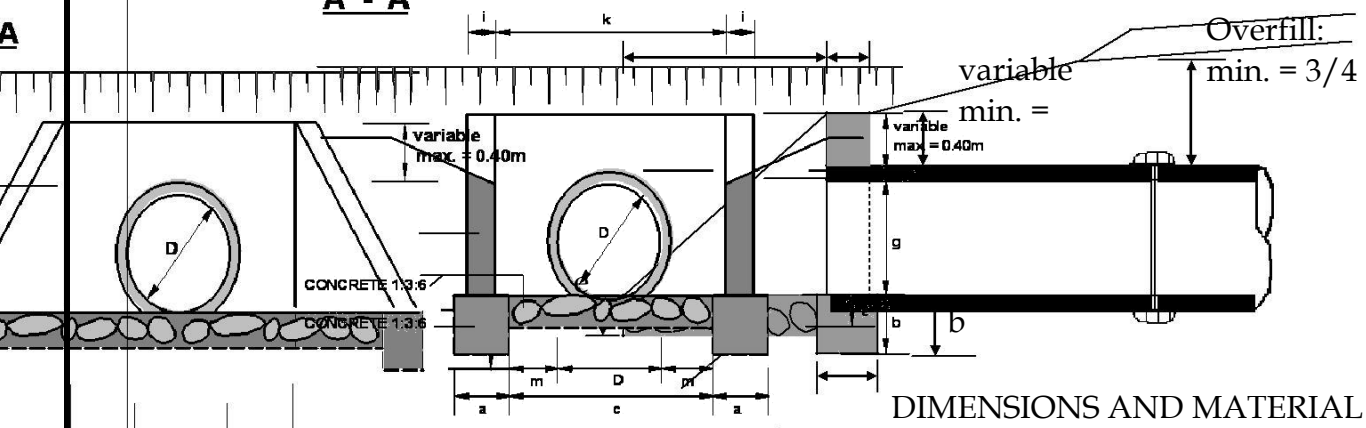
1. = **Concrete block**
2. = **Stone masonry**
3. = **Dressed stones**

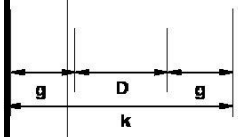
An example code of "B2" would therefore stand for a drop inlet type structure to be built in stone masonry.

B - i

d

A - A

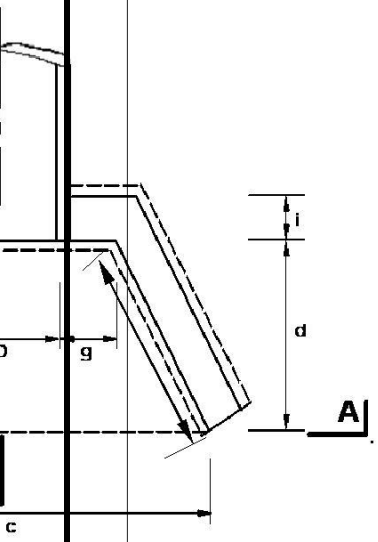




Concret

e

1:2:4



DIMENSIONS AND MATERIAL REQUIREMENTS

PIPE DIAMETER IN (M)		TYPE A (CONCRETE BLOCKS			TYP E B (STONE MASONRY)		
		450	600	900	450	600	90 0
DIMENSION	UNIT						
a FOUNDATION	m	0.30	0.30	0.30	0.40	0.40	0.60
b FOUNDATION	m	0.30	0.30	0.40	0.30	0.30	0.40
c FOUNDATION		2.20	2.35	2.89	2.20	2.35	2.89

E - LL

1TYPE

Concrete or

1:2

d	APRON	m	1.0
e	APRON	m	0.2
f	WALL	m	0.2
g	WALL	m	0.3
h	WALL	m	1.1
I	WALL	m	0.2
k	APRON	m	1.0

B -

Flush to earth

i l i

Overfill:

f variable min. = 3/4 of pipe min. =

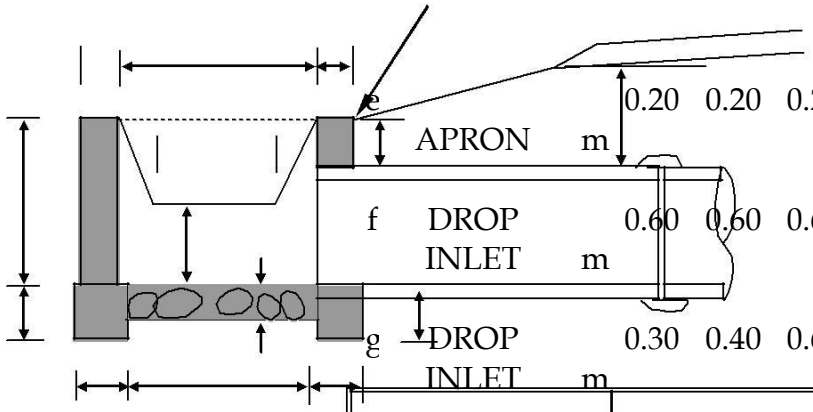
2

g

e

d

a a



A - A

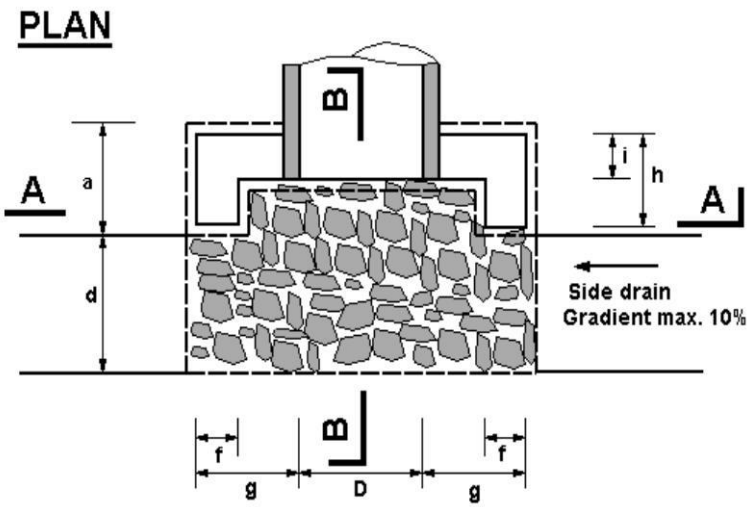
DIMENSIONS AND MATERIAL REQUIREMENTS

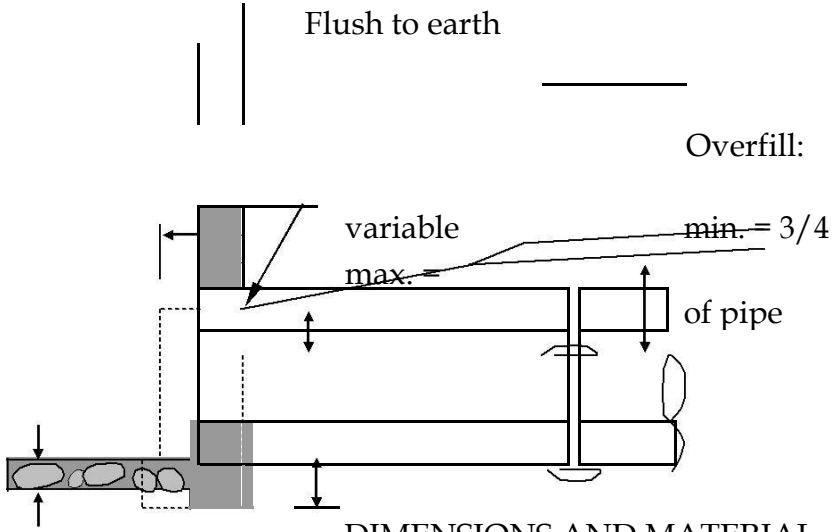
PIPE DIAMETER IN (M)		TYPE A (CONCRETE BLOCKS)			TYPE B (STONE MASONRY)		
	UNIT	450	600	900	450	600	900
DIMENSION							
a FOUNDATION	m	0.30	0.30	0.30	0.40	0.40	0.40
b FOUNDATION	m	0.30	0.30	0.30	0.30	0.30	0.30
c FOUNDATION	m	1.10	1.10	1.40	1.20	1.20	1.50
d APRON	m	0.90	0.90	0.90	1.00	1.00	1.00
e APRON	m	0.20	0.20	0.20	0.20	0.20	0.20
f DROP INLET	m	0.60	0.60	0.60	0.60	0.60	0.60
g DROP INLET	m	0.30	0.40	0.60	0.30	0.40	0.60
h DROP INLET	m	0.60	0.80	1.20	0.60	0.80	1.20
I DROP INLET	m	0.20	0.20	0.20	0.40	0.40	0.40
k DROP INLET	m	1.20	1.20	1.50	1.20	1.20	1.50
l DROP INLET	m	1.00	1.00	1.00	1.00	1.00	1.00
m DROP INLET	m	0.38	0.30	0.30	0.38	0.30	0.30
MATERIAL REQUIREMENT							
FOUNDATION (Concrete)	m3	0.47	0.47	0.52	0.72	0.72	0.72
HEAD/WING WALLS (Concrete/Ma	m	0.53	0.69	1.11	1.24	1.68	2.6

CONCRET

o l o

c

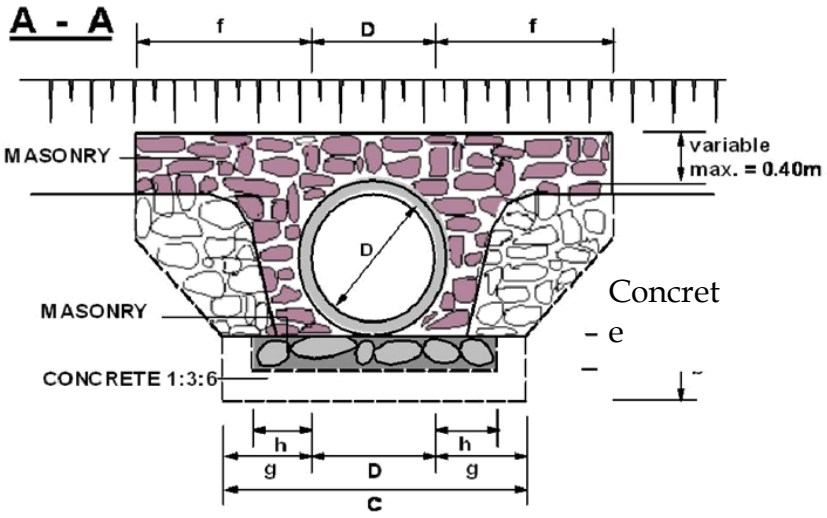




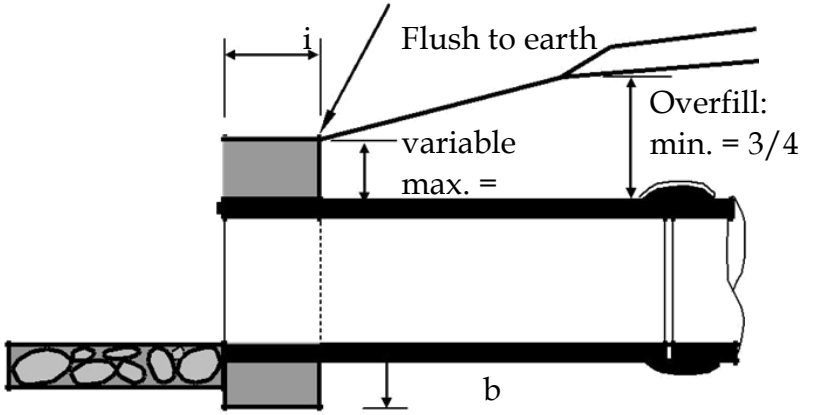
DIMENSIONS AND MATERIAL REQUIREMENTS

PIPE DIAMETER IN (M)		TYPE A (CONCRETE BLOCKS	
		450	600
DIMENSION	UNIT		
a FOUNDATION	m	0.50	0.50
b FOUNDATION	m	0.30	0.30
c	m	1.55	1.70

78

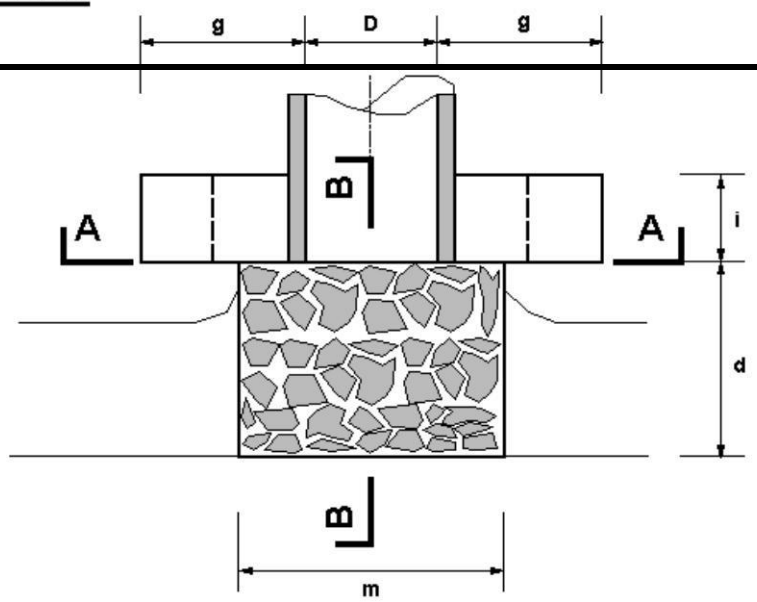


B -



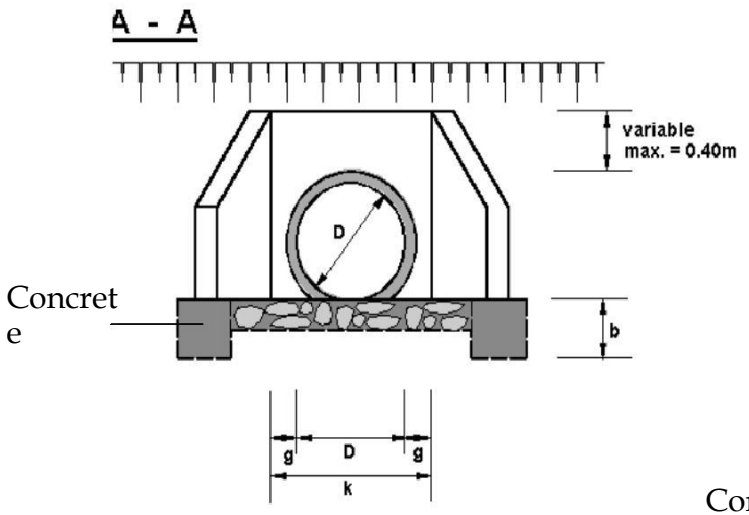
d a

PIPE DIAMETER IN (M)		TYPE B (CONC. BLOCKS)	
		450	600
DIMENSION	UNIT		
a FOUNDATION	m	0.40	0.40
b		0.30	0.30
c FOUNDATION	m	1.55	1.70

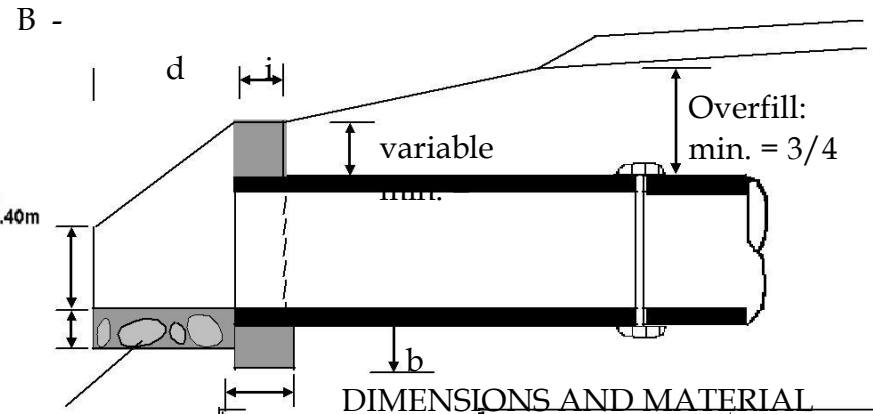


FOUNDATION (Concrete 1:3:6)	m3	0.19	0.2
HEAD/WINGWALLS (Concrete/ Masonry)	m3	0.62	0.69
APRON (Concrete 1:2:4)	m3	0.19	0.22

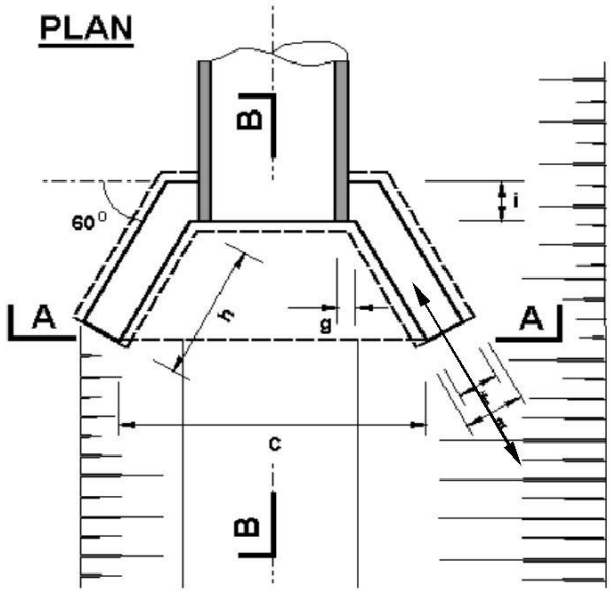
HEADWALLS)



Concrete



Concr



DIMENSIONS AND MATERIAL REQUIREMENTS

PIPE DIAMETER IN (M)		TYPE A (CONCRETE BLOCKS			TYPE B (STONE MASONRY)		
		450	600	900	450	600	900
DIMENSION	UNIT						
a FOUNDATION	m	0.30	0.30		0.40	0.40	
b FOUNDATION	m	0.30	0.30		0.30	0.30	
c APRON		1.34	1.49		1.34	1.49	
d APRON	m	0.60	0.60		0.60	0.60	
e APRON	m	0.20	0.20		0.20	0.20	

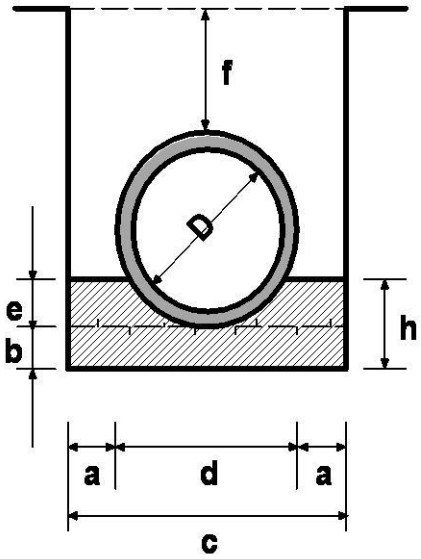
80

CULVERTS)

FIGURE C.13- BEDDING AND HAUNCH PROFILES TYPES I & II

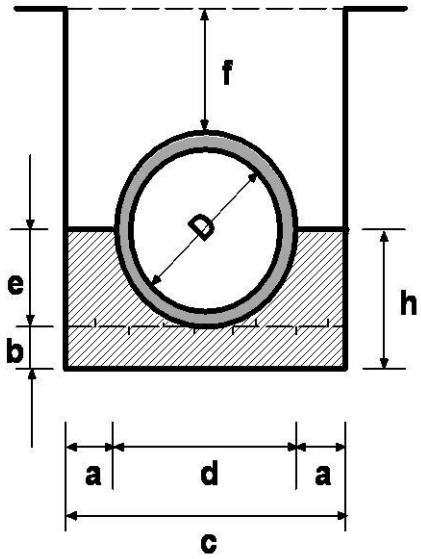
PROFILE I

(CONCRETE)



PROFILE II

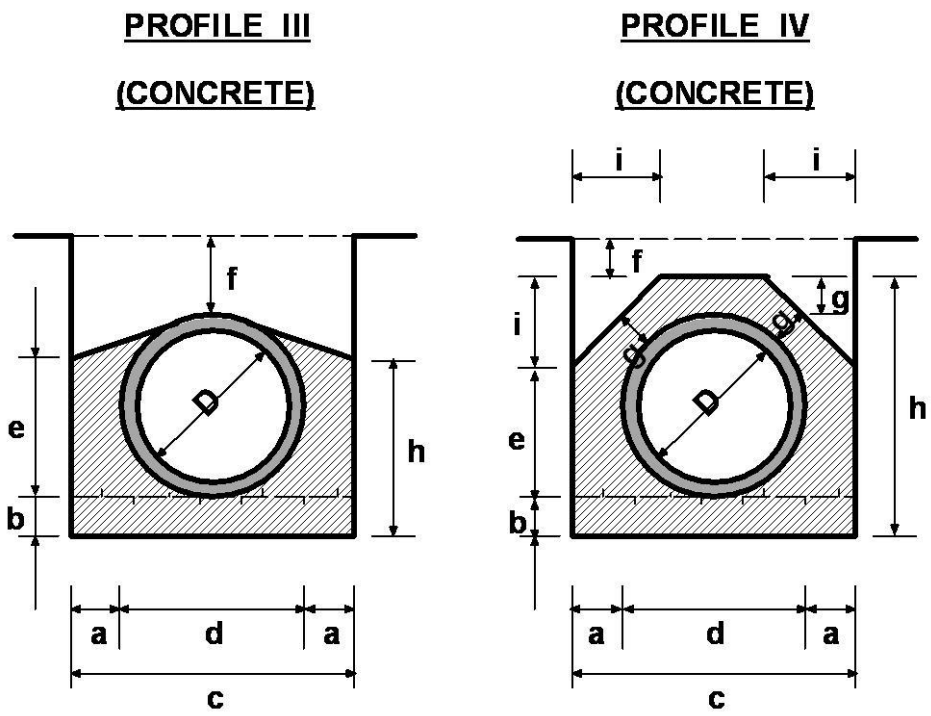
(CONCRETE)



Diameter (D)	450 (mm)	600 (mm)	900 (mm)
	Dimensions in (m)		
a	0.15	0.2	0.2
b	0.1	0.15	0.15
c	0.86	1.12	1.48
d	0.56	0.72	1.08
e	0.14	0.18	0.27
f (min.)	0.34	0.45	0.68
g	-	-	-
h	0.24	0.33	0.42
i	-	-	-
Concrete	Volume in (m3/m)		
	0.16	0.3	0.48
Application	- Fair subgrade condition; - Overfill > ¾ Diameter; - Seasonal waterflow only.		
Remarks	- Use gravel material for back/ overfill.		

450 (mm)	600 (mm)	900 (mm)
Dimensions in (m)		
0.15	0.2	0.2
0.1	0.15	0.15
0.86	1.12	1.48
0.56	0.72	1.08
0.28	0.36	0.54
0.34	0.45	0.68
-	-	-
0.38	0.51	0.69
-	-	-
Volume in (m3/m)		
0.2	0.37	0.56
- Fair to poor subgrade Condition; - Overfill > ¾ Diameter; - Seasonal waterflow only. - Use gravel material for back/ overfill.		

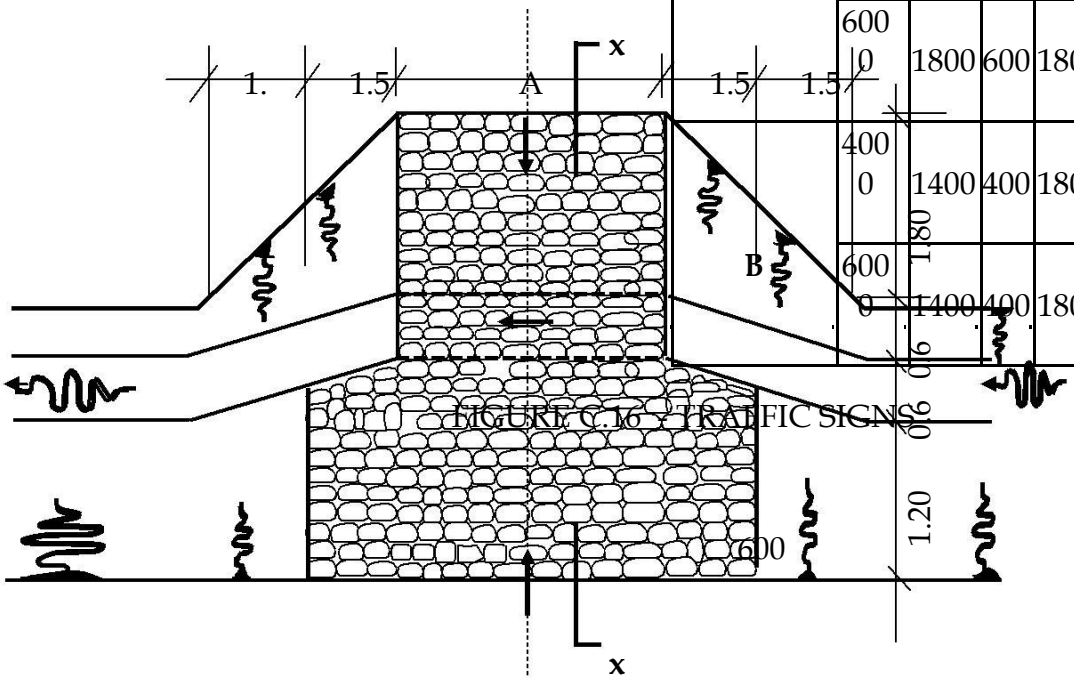
FIGURE C.14 - BEDDING AND HAUNCH PROFILES TYPES III & IV



Diameter (D)	450 (mm)	600 (mm)	900 (mm)
	Dimensions in (m)		
a	0.15	0.2	0.2
b	0.1	0.15	0.15
c	0.86	1.12	1.48
d	0.56	0.72	1.08
e	0.42	0.54	0.81
f (min.)	0.23	0.3	0.45
g	-	-	-
h	0.52	0.69	0.96
i	-	-	-
Concrete	Volume in (m3/m)		
	0.26	0.47	0.71
Application	- Fair subgrade condition; - Overfill > ¾ Diameter; - Seasonal waterflow only.		
Remarks	- Use gravel material for back/ overfill.		

450 (mm)	600 (mm)	900 (mm)
Dimensions in (m)		
0.15	0.2	0.2
0.1	0.15	0.15
0.86	1.12	1.48
0.56	0.72	1.08
0.46	0.52	0.78
0.15	0.15	0.15
0.15	0.15	0.15
0.81	1.02	1.38
0.28	0.35	0.45
Volume in (m3/m)		
0.37	0.61	0.92
- Fair to poor subgrade Condition; - Overfill > ¾ Diameter; - Seasonal waterflow only. - Use gravel material for back/ overfill.		

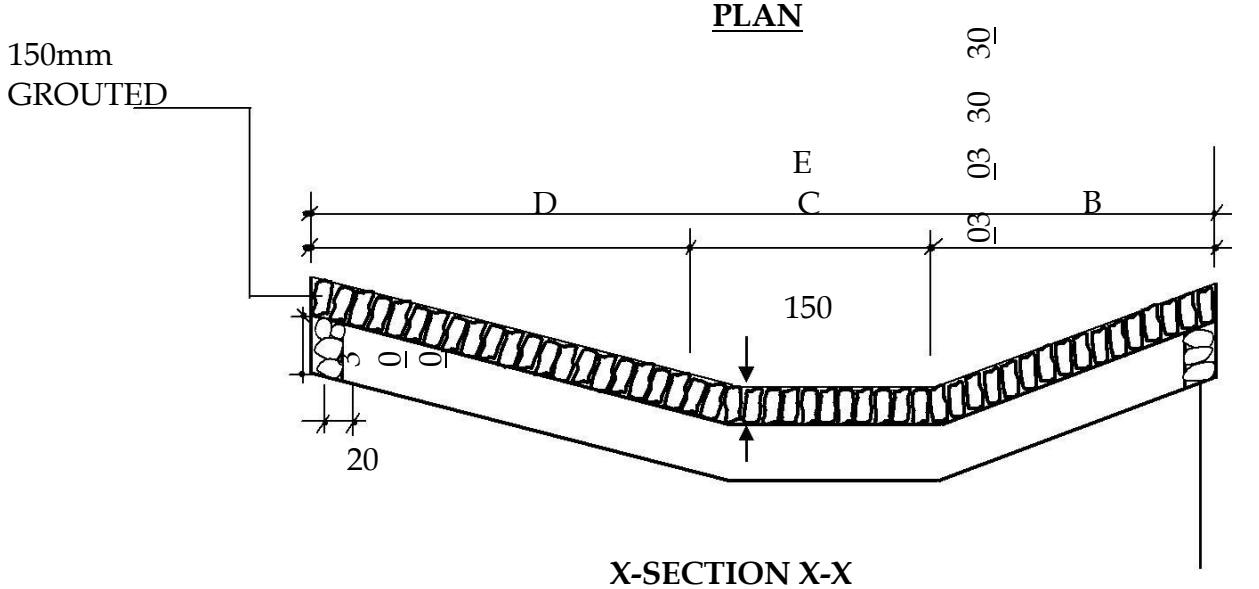
FIGURE C.15 ACCESS DRIFT



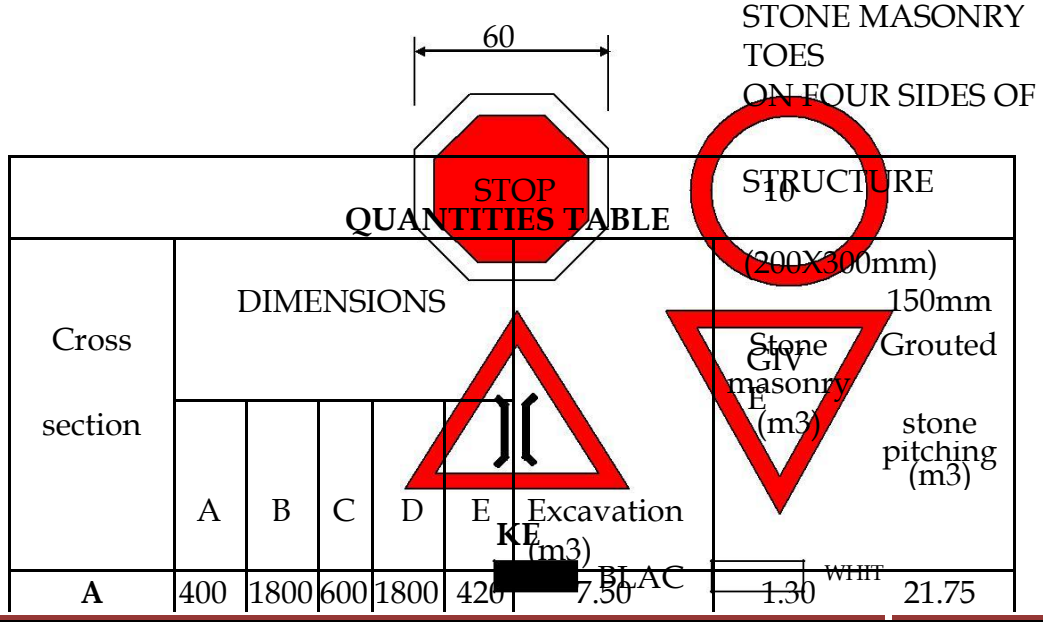
0								0	
600	0	1800	600	1800				420	0 10
400	0	1400	400	1800				360	0 7.0
600	0	1400	400	1800				360	0 9.0

FIGURE C.16 – TRAFFIC SIGNS

PLAN

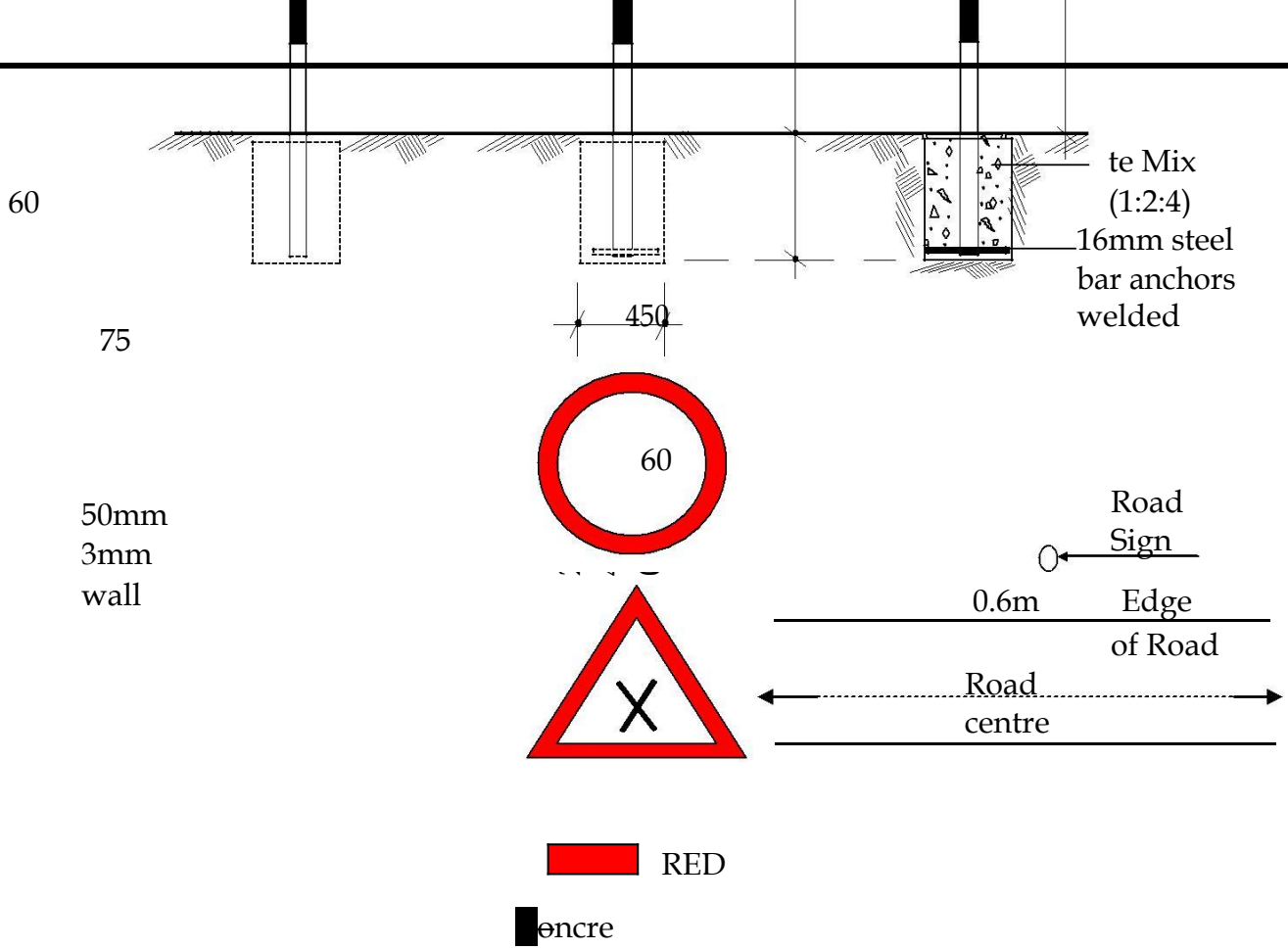


X-SECTION X-X



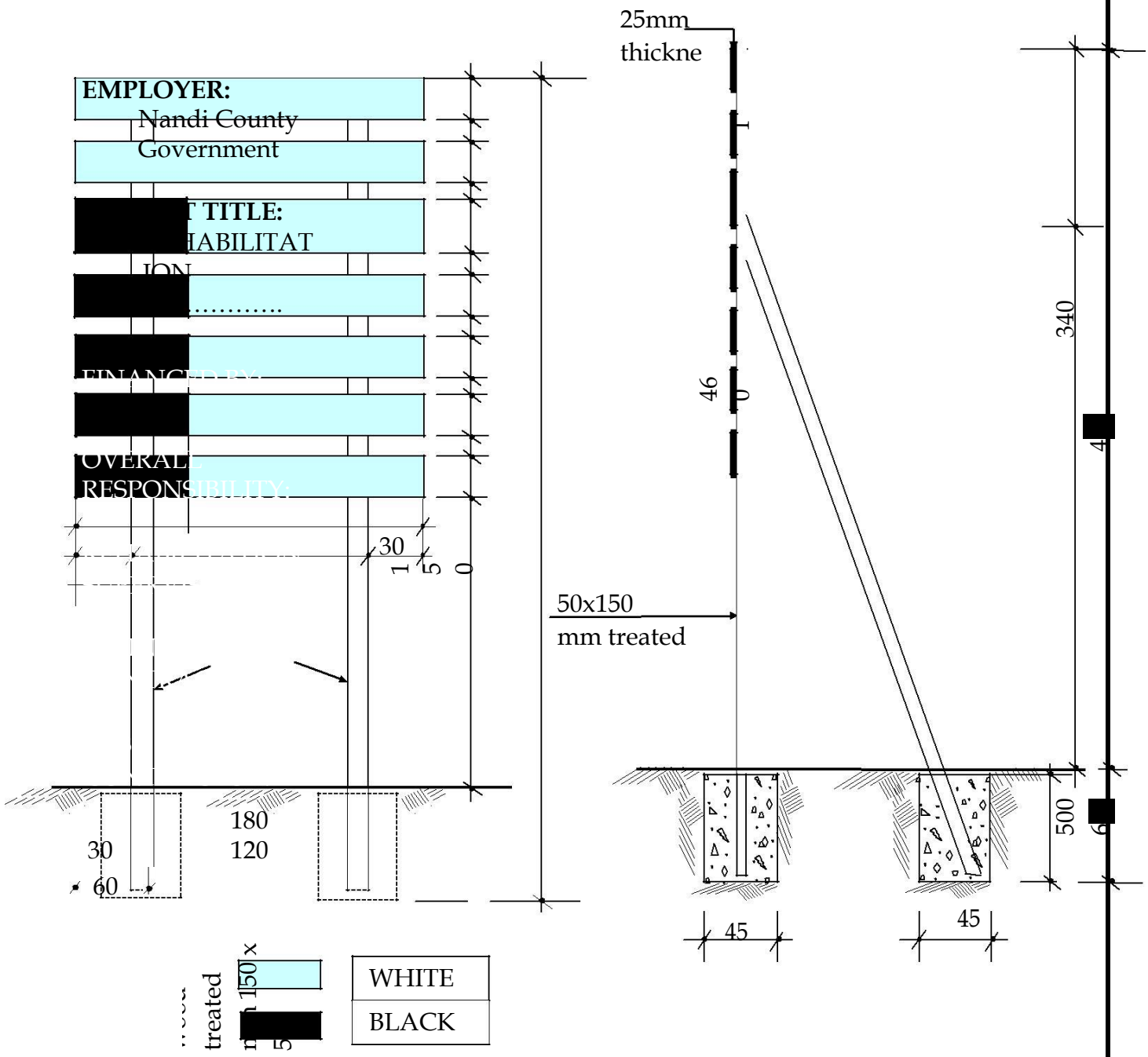
QUANTITIES TABLE

Cross section	DIMENSIONS							
	A	B	C	D	E	Excavation (m3)	GIV masonry (m3)	150mm Grouted stone pitching (m3)
A	400	1800	600	1800	420	7.50	1.30	21.75



1. The type of sign required and their location shall be as shown on the improvement plan and as directed by the Engineer
2. Sign plate to be 2 mm thick mild steel plate
3. Sign post to be 50 mm internal diameter steel pipe with wall thickness of 3 mm.
4. Sign plate to fixed to steel tube by 4 Nos M10 bolts and 2 Nos 50 mm f fixing clamps/brackets.
5. Sign paints shall be reflective.

FIGURE C.17 - PUBLICITY SIGNBOARD



NOTES

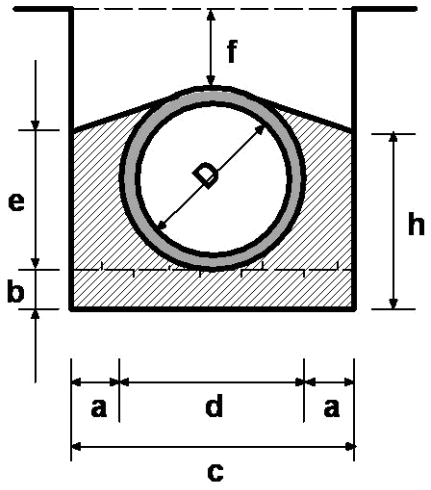
(b) The wording of the project signboard and the location to be installed to be as directed by the Engineer

(c) Materials to be used for fabrication of signboard shall be pressure impregnated treated softwood timber sizes as indicated in the drawing

(d) Wording boards to be nailed to the posts using nails.

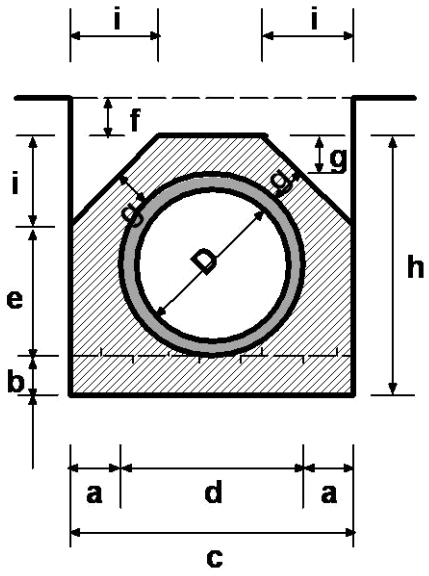
PROFILE III

(CONCRETE)



PROFILE IV

(CONCRETE)



SPECIFICATIONS

1.0 PROJECT DESCRIPTION.

PROJECT SPECIFICATION

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PRELIMINARY AND GENERAL ITEMS

01-50-003: Office administration and overheads/Preliminaries

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04-50-003: Heavy Bush Clearing

04-50-010: Excavate remove & disposal of concrete structures

SECTION 05: EARTHWORKS

05-50-008: Cut to spoil in Soft

05-50-009: Cut to spoil in Hard

SECTION 07: EXCAVATION AND FILLING FOR STRUCTURES EARTHWORKS

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07-50-006: Selected granular fill material

SECTION 08: CULVERT AND DRAINAGE WORKS

08-50-005: Ditch/Mitre drain /catch water drain excavation

08-60-008: Culvert Cleaning- Fully Blocked - 600mm
08-60-025: Culvert Installation 600 mm with surround
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08-70-004: Provide and place Gabion Installation

08-70-005: Provide and place Rock fill to Gabions
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SECTION 10: GRADING AND GRAVELLING WORKS
10-50-001: Heavy grading without watering or compaction instructed
10-60-003: Provide, spread place and compact natural gravel

SECTION 22: DAYWORKS
22-63-010: Road opening with Crawler tractor

SECTION 01: PRELIMINARY AND GENERAL ITEMS

01-40-003 Insurance and Bonds

The Contractor shall provide Insurance and Sureties in accordance with relevant Clauses in the Conditions of Contract.

Measurement and Payment

Lump Sum payment for this item will be made upon the production of satisfactory evidence by the Contractor that Insurances and Securities have been effected.

01-40-004 Quality Control Tests

The Engineer may instruct the Contractor during the progress of the Works to carry out quality control tests to check materials and standards of workmanship, against the Specifications.

Where such tests indicate defective standards the Engineer shall instruct the Contractor to rectify the defects to the Engineer's satisfaction and at the Contractor's expense.

Measurement and Payment

The Engineer shall include a Provisional Sum for this item to be expended only as and when the Contractor is instructed to carry out tests.

SECTION 04: SITE CLEARANCE

Scope

This section covers the clearance of bushes, shrubs, grasses, trees, stumps, boulders, stripping and grubbing of the topsoil, removal of anthills and other unsuitable materials for the specified widths of the road, quarry and borrow areas. The distinction between light and heavy bush shall be decided by the Engineer.
The minimum site clearing widths for each of the activities shall be as shown in Table 4.1

Table 4.1: Site Clearing Widths

Road Category	*Running Surface*	*Stripping and Grubbing*	*Trees, Stumps, Boulders*	*Bush Clearing*
A/B/C + Secondary Roads	6.0 m	10.6 m	10.6 m	14.0 m

04-50- 003 Bush Clearing (Heavy)

Where the Engineer designates an area as Heavy Bush (based on the undergrowth density) the Contractor shall clear all vegetation including small trees, shrubs and undergrowth, and their root systems, and shall salvage any re-useable timber or other material by cutting into logs and stacking. Other cleared material shall be collected and disposed of off-site as directed by the Engineer.

Work Method

The Contractor shall use **Labour** methods for this item

Quality Control

The Engineer shall check the cleared widths at 50 metre intervals

Measurement Unit: m^2

The measurement shall be the area cleared to the specified width over the length as instructed by the Engineer.

Payment:

The unit rate shall be the full compensation for all labour, tools and incidental costs required to complete the work.

SECTION O5: EARTHWORKS

Scope

This section covers the excavation of soil and the placing, watering and compaction of hard and soft material to form the road formation.

05-40- 001: Re - Establishment of the Vertical Alignment

The Contractor shall re-establish the vertical alignment of the road section which includes the setting out excavation of horizontal slots marking the level road platform.

The width of the slots shall be 0.5 m and they shall be set out at 10m intervals along the straight section and 5m on the curve sections of the road. Each slot shall be compacted using

hand rammers until no more imprints of the rammer on the surface of the slot can be seen. The length of each slot shall be equal to the formation width of the road.

Vertical alignment standards shall be those set out in Table 5.1

Table 5.1 Vertical Alignment Standards

Standard	Flat & Rolling Terrain	Hilly Terrain
Gradients		
Desirable Minimum	2%	2%
Desirable Maximum	8%	10%
Absolute Maximum	10%	12%

Work method

The Contractor shall apply **Labour** methods to carry out this item work.

Quality Control:

(i) The hand rammer shall be not less than 5kg
(ii) The level of the slot shall have a tolerance of ± 50 mm
(iii) The longitudinal profile of the road shall be checked at every third slot and shall have a maximum tolerance of ± 50mm

Measurement Unit: m

The measurement shall be linear metres of road alignment set out

Payment:

The unit rate shall be the full compensation for labour, tools, materials and incidental costs required for carrying out the work.

05-50- 007 Excavation to Level and Compaction

The Contractor shall cut material to form the level road platform and place the excavated material as fill or in spoil areas approved by the Engineer. Where material needs to be borrowed excavation shall only be from borrow areas approved by the Engineer.
The fill layers to be compacted shall not exceed 150mm loose depth.

Compaction of the fill material shall be carried out from the edges to the centre by overlapping passes of the compaction equipment. The number of passes shall be as directed by the Engineer dependent upon the equipment used and the material being compacted. Unless otherwise instructed the moisture content of the material shall be within
(xi) 2% of optimum. Where additional moisture is required water shall be applied in an even manner such that no longitudinal or transverse flow occurs.

The Engineer may instruct the Contractor to carry out density tests on the compacted material to ensure that an acceptable standard has been achieved.

Work Method

The Contractor shall use **Labour** and appropriate compaction **Equipment** to carry out this item of work.

Quality Control

1. The width of the platform shall be checked at intervals of 50 m and shall have a tolerance of + / - 50mm.
2. The level platform shall be horizontal in the transverse direction and shall have a tolerance of + / - 15 mm under a 2 metre straight edge.
3. The longitudinal profile shall have a maximum tolerance of + / - 50 mm over a 30m length of gradient.
4. Compaction shall show no movement of material under the roller.
5. Compaction test standard shall be 95% MDD (AASHTO T99)

Measurement Unit: m^3

The measurement shall be the volume of compacted fill material forming the level platform.

Payment

The unit rate shall be the full compensation for labour, tools, equipment, water and incidental costs required for carrying out the work.

05-50- 008 Spreading and Compaction for Camber Formation

The Contractor shall spread and compact the material deposited from the side drains to form the camber on the road, in accordance with the Drawings or as directed by the Engineer, and shall check the profile with the appropriate camber board.

Compaction shall be carried out from the edges to the centre line by overlapping passes of the compaction equipment. The number of passes shall be as directed by the Engineer dependent upon the equipment used and the material being compacted. Unless otherwise instructed the moisture content of the material shall be within + 2% of optimum. Where additional moisture is required water shall be applied in an even manner such that no longitudinal or transverse flow occurs.

The Engineer may instruct the Contractor to carry out density tests on the compacted material to ensure that an acceptable standard has been achieved.
Work method

The Contractor shall use Labour and appropriate compaction Equipment to carry out this item.

Quality Control

* The width of the carriageway including the shoulders shall be checked at 50m intervals and shall have a tolerance of +50/-20 mm.
* The camber shall be checked 50m intervals and shall have a tolerance of +/- 1%.
* Compaction shall show no movement of material under the roller
* Compaction test standard shall be 98% MDD (AASHTO T99)

Measurement Unit m2

The measurement shall be the area of camber formed, according to the specified carriageway width and measured length of road.

Payment

The unit rate shall be the full compensation for all labour, tools, equipment, water and incidental costs required for carrying out the work.

SECTION 07: EXCAVATION AND FILLING FOR STRUCTURES

Scope

This section covers all Works in connection with the excavation for concrete pipe culverts; inlet and outlet structures; drifts and drainage protection Works;

07-50- 002 Excavation for Drainage Structures

The Contractor shall excavate trenches for culverts; foundations for head walls, wing walls; inlet and outlet aprons and other drainage structures to the dimensions and levels shown on the Drawings or as directed by the Engineer. The excavations shall be kept free of water and shall be compacted with hand rammers of not less than 5kg.

The Engineer shall approve all excavations before the Contractor shall be permitted to proceed with the construction.

The Contractor shall take all necessary precautions to safeguard the stability and safety of the excavations.

Work Method

The Contractor shall apply **Labour** methods to carry out this item.

Quality Control

(a) The dimensions of the excavations shall have a tolerance of + / - 50mm
(b) The invert levels shall have a tolerance of + / - 50mm
(c) The trench bottom gradients shall have a tolerance of + / - 20mm over the length of the trench

Measurement Unit m^3

The measurement shall be volume of material excavated measured net according to the Drawings.

Payment

The unit rate shall be the full compensation for labour, tools, and any incidental costs required for carrying out the work.

07-50-003: Side-drain Excavation (Soft Material)

The Contractor shall excavate side drains to the profiles shown on the Drawings or as directed by the Engineer.

The material from the excavations shall be used for the formation of the camber. Where additional material is required to achieve the required camber, the widths of the side drains may be increased, with the approval of the Engineer.

Locations of the side drains shall be as shown on the Drawings or as directed by the Engineer, and the Contractor shall use the appropriate ditch template to control the excavations

Work method

The Contractor shall apply **Labour** methods to carry out this item

Quality Control

1. The dimensions of the side drains shall be checked at 50m intervals and shall have a tolerance of $\pm$ 50mm
2. The longitudinal profile of the side drains shall be checked at 30m intervals and shall have a tolerance of +/-50mm.

Measurement Unit m^3

Measurement shall be the volume of material excavated to form the side drains, and deposited for camber formation.
Payment

The unit rate shall be the full compensation for labour, tools and incidental costs required for carrying out the work.

07-50-004 Side-drain Excavation (Hard material)

Where, in the opinion of the Engineer, the material to be excavated to form the side drains may be classified as hard the Contractor shall carry out the excavation in accordance with 05-003 and shall be compensated under this item,

Work Method:

The Contractor shall apply **Labour** methods with appropriate **Equipment** to carry out this item.

Quality Control:

The Engineer shall measure the volume of the excavation classified as Hard material

Measurement Unit: m^3

The measurement shall be the volume of material excavated and deposited to form the camber

Payment:

The unit rate shall be the full compensation for all labour, tools, equipment and incidental costs required to complete the work.

07-50- 005 Mitre Drains/Catchwater Drains

i Labour ii. Equipment

.

The Contractor shall excavate mitre drains and catchwater drains to the dimensions shown on the Drawings and at locations as directed by the Engineer. They shall be excavated in a manner to minimise erosion at the discharge point. The material excavated from the drains shall be used to form the side drain bund directing water to the mitre-drain, and a bund on the lower side of the cut-off drain, or disposed of as directed by the Engineer.

Work Method

The Contractor shall use either **Labour** or **Equipment** as directed by the Engineer to carry out this work.

Quality Control

(1) The longitudinal profile shall have a gradient of maximum 4%.
(2) The dimensions of the mitre drains shall have maximum tolerances of ±20mm
(3) The location of the mitre drains shall be approved by the Engineer.

Measurement Unit: m^3

The measurement shall be the volume of material excavated as measured on site in approved drains.

Payment

The unit rate shall be full compensation for labour, tools, equipment and incidental costs required for carrying out the work.

SECTION 08: CULVERT AND DRAINAGE WORKS

Scope

This section covers all Works in connection with the installation of concrete pipe culverts; inlet and outlet structures; drifts and drainage protection Works; and the construction of Scour Checks

08-60-001/005: Culvert Cleaning (partially blocked)

08-60-001 300mm dia
08-60-002 450mm dia
08-60-003 600mm dia
08-60-004 900mm dia
08-60-005 1200 mm dia

This activity involves the cleaning of culverts of specified sizes including pipe barrels, the outlet/inlet structures, and the outlet drains, keeping them free of all debris, weed, silt and any obstruction to ensure free passage of water at all times. The debris shall be deposited in approved spoil dumps as directed by the Engineer

Partially blocked culverts shall be those with less than half of the barrel blocked.

Correct widths and slopes of the outlet drains shall be maintained. The gradient of the outlet drain shall be not less than 2 %.

All broken culvert barrels discovered in the course carrying out this activity shall be reported to the Engineer.

This activity shall be carried out before the rains, or as directed by the Engineer.

Work Method

The Contractor shall use **Labour** to carry out this item of

work *Quality Control*

The culverts shall be checked as free of debris to the satisfaction of the Engineer.

Measurement Unit: **m**

The measurement shall be the length of culvert, including the outlet drain, cleaned

Payment

The unit rate shall be full compensation for labour, tools and incidental costs required to carry out the work.

08- 60 - 006/7/8/9/10 : Culvert Cleaning (Fully blocked):

08 - 60 - 006 300mm dia;
08 - 60 - 007 450mm dia;
08 - 60 - 008 600mm dia;
08 - 60 - 009 900mm dia;
08 - 60 - 010 1200mm dia

This activity involves the cleaning of culverts of specified sizes including pipe barrels, the outlet/inlet structures, and the outlet drains, keeping them free of all debris, weed, silt and any obstruction to ensure free passage of water at all times. The debris shall be deposited in approved spoil dumps as directed by the Engineer

Fully blocked culvert shall be those with greater than half of the barrel blocked.

Correct widths and slopes of the outlet drains shall be maintained. The gradient of the outlet drain shall be not less than 2 %.

All broken culvert barrels discovered in the course of carrying out this activity shall be reported to the Engineer.

This activity should be carried out before the onset of the rains, or as directed by the Engineer.

Work Method
The Contractor shall use **Labour** to carry out this item of work.

Quality Control

The culverts shall be checked as free from debris, to the satisfaction of the Engineer.

Measurement Unit: m

The measurement shall be the length of culvert, including the outlet drain cleaned.

Payment

The unit rate shall be full compensation for labour, tools and incidental costs required to carry out the work.

08-60-016/035 Concrete Pipe Culverts

08-60-016	300	mm	haunched	(Type II)
08-60-017	300	mm	unhaunched	(Type 1)
08-60-018	450	mm	haunched	(Type II)
08-60-019	450	mm	unhaunched	(Type 1)
08-60-020	600	mm	haunched	(Type II)
08-60-021	600	mm	unhaunched	(Type I)
08-60-022	900	mm	haunched	(Type II)
08-60-023	900	mm	unhaunched	(Type I)
08-60-024	1200	mm	haunched	(Type II)
08-60-025	1200	mm	unhaunched	(Type I)
08-60-026	300	mm	semi-surround	(Type III)
08-60-027	300	mm	surround	(Type IV)
08-60-028	450	mm	semi-surround	(Type III)
08-60-029	450	mm	surround	(Type IV)
08-60-030	600	mm	semi-surround	(Type III)
08-60-031	600	mm	surround	(Type IV)
08-60-032	900	mm	semi-surround	(Type III)
08-60-033	900	mm	surround	(Type IV)
08-60-034	1200	mm	semi-surround	(Type III)
08-60-035	1200	mm	surround	(Type IV)

The Contractor shall supply, lay and joint concrete pipes to form culverts, including the concrete bedding; haunching or surrounds; and backfilling, in accordance with the Drawings for the Type and diameter specified in the Contract or directed by the Engineer.

The pipes shall be of Class 20/20 concrete, at least 28 days cured, and manufactured on site or procured from a supplier approved by the Engineer. The pipes shall be laid on a bedding of Class 15/20 concrete of dimensions as shown on the Drawings and jointed with cement mortar 1:4.

The culvert gradient including the outlet shall be a minimum 2%.

The pipes shall be haunched or surrounded, according to the Type specified, with Class 15/20 concrete to the dimensions shown on the Drawings or as directed by the Engineer.

Backfilling shall be carried with approved material and compacted in layers not exceeding

150 mm loose depth and placed evenly on each side of the pipe. Ramps shall be shaped to achieve a minimum overfill of 75% of the pipe diameter, and shall be tapered back on the carriageway to provide a gradual approach, as directed by the Engineer.

If the Contractor wishes to construct culverts in-site, using inflatable or collapsible forms the Engineer's approval shall first be sought for the proposed working method.

On completion the inside of the culvert shall be smooth, without displaced joints or other obstructions and true to line and level.

Work Method

The Contractor shall use **Labour** and appropriate **Equipment** to carry out this item work

Quality Control

(3) Concrete quality shall be checked for cracks, honey combing, and other defects.
(4) Before the pipes are laid, the gradient of the concrete bedding shall be checked and shall not be less than 2%
(5) The joints shall be checked to see that they have been properly made.

Measurement Unit: m

The measurement shall be in linear metres of the installed Type and size of culvert specified, measured net according to the Drawings.

Payment

The unit rate shall be the full compensation for labour, tools, materials, equipment and any other incidentals that may be required in carrying out the work.

08- 70- 001 Head Wall Repair - Masonry

This activity involves the repairs to damaged head walls and wing walls built in masonry.

Where directed by the Engineer, the masonry walls shall be inspected and loose or missing stone re-secured or replaced. Damaged pointing shall be repaired with cement mortar 1:4 and finished flush with the stonework.

Work Method

The Contractor shall use **Labour** to carry out this item of work

Quality Control

1. The stability of the walls and the pointing shall be to the satisfaction of the Engineer.

Measurement Unit: No

The measurement shall be the number of walls repaired as directed by the Engineer.

Payment

The unit rate shall be full compensation for labour, materials, tools, and incidental costs required to carry out the work.

08-70-002 Headwall Repair - Concrete

The activity involves the repairs to damaged concrete headwalls and wingwalls, and to inlet/outlet concrete aprons. Concrete walls shall be inspected and repair works carried out as instructed by the Engineer to include breaking out and replacement of damaged concrete with similar material, and the rendering of open texture areas with cement mortar 1:4. Broken wall sections shall be re-built in 20/20 (1:2:4) concrete within formwork erected on the correct lines and levels in accordance with the Standard Drawings. Areas of new concrete and mortar shall be protected from direct sunlight and kept moist for 3 days.

Quality Control

The work shall be carried out to the satisfaction of the Engineer.

Measurement Unit: No

The measurement shall be the number of walls/aprons repaired.

Payment

The unit shall be full compensation for labour, materials, tools, and incidental costs required to carry out the work.

08-80- 002 : Gabions

The Contractor shall provide and install Gabions as retaining walls and anti-erosion structures at locations shown on the Drawings or as directed by the Engineer.

Gabions shall include mattresses and boxes and for purposes of construction, measurement and payment, no distinction shall be made between them.

Gabions shall be 'Maccaferi" boxes or 'Reno' matresses or equivalent approved by the Engineer.

The surfaces on which the Gabions are to be laid prior to being filled with rock shall be

levelled to the depths and dimensions shown on the Drawings or as directed by the Engineer.

Gabion boxes shall be tied together with 3 mm galvanised binding wire securing all edges at 150mm intervals.

Work Method

The Contractor shall use **Labour** to carry out this item.

Quality Control

The placing and tying of the Gabions shall be approved by the Engineer before filling commences.

Measurement Unit: No

The measurement shall be the number of Gabion boxes installed.

Payment

The unit rate shall be the full compensation for labour, materials, and any incidental item costs necessary to carry out the work.

08-80-003 : Rockfill to Gabions

The Contractor shall provide selected rock, crushed if necessary, and carry out the packing and compacting of the rock inside the Gabion boxes.

The boxes shall be filled in layers from the sides towards the middle in an interlocking stone matrix to prevent deformation and bulging. The interior and top layers of the boxes shall be hand packed with smaller stone to form a tightly compact structure and rammed in place. Care shall be taken to ensure that each layer of boxes is filled evenly and to a level surface before the next course of boxes is placed.

Work method

The Contractor shall use **Labour** to carry out this activity.

Quality Control

The filling and compaction of the stones in the Gabion boxes shall be approved by the Engineer.

Measurement Unit m^3

Rockfill to Gabions shall be the volume of Gabions filled.

Payment

The unit rate shall be the full compensation for labour, tools, materials and incidental costs required for carrying out the work.

SECTION 10: GRADING AND GRAVELLING

Scope:

Grading covers the work of the reinstating of the road carriageway to the correct camber by removing the high points and filling gullies, corrugations, and wheel ruts to restore a smooth running surface. Gravelling consists of the excavation, loading, hauling, dumping and spreading of gravel wearing course material on the formation of the road carriageway. Gravel shall include lateritic gravel, quartzitic gravel, calcareous gravel, decomposed rock, soft stone coral rag, clayey sand and crushed rock.

The material may be obtained from quarries, borrow pits or excavation in cuttings as directed by the Engineer. Gravel material shall conform to the requirement given in Table 10.1

Table 10.1: Requirement for Gravel Wearing Course

GRADING REQUIREMENTS	
Sieve (mm)	% by Weight Passing
40	100
28	95 - 100
20	85 - 100
14	65 - 100
10	55 - 100
5	35 - 92
2	23 - 77
1	18 - 62
0.425	14 - 50
0.075	10 - 40

For "Quarry Waste" gravel stones of maximum dimension 80mm may be permitted

PLASTICITY INDEX REQUIREMENTS PI		
Zone	Min	Max
WET: Mean annual rainfall	5	20
DRY: Mean annual rainfall	10	30

BEARING STRENGTH		
Traffic VPD	CBR	DCP Equivale mm/Blow
>15	20	11
<15	15	14
CBR at 95 % MDD, Modified AASHTO and 4 days soaking		

Lower quality material (CBR 15) may beaccepted if no better material can be found

The Engineer shall approve quarries and the extent of their exploitation. The quarries shall be shown to the Contractor prior to commencement of the Works. The Contractor shall be responsible for the acquisition of the quarry rights and shall conduct respective negotiations with landowners and affected communities.

Alternative sources of gravel material whose quality can be shown to be in compliance with the specification requirements may be used, with the approval of the Engineer and at no extra cost to the Employer. The Contractor is deemed to have included in his rates for the provision of the gravel material.

10-50-004 Spreading of gravel

i) Labour method *ii) Equipment method*

This activity involves spreading gravel material, shaping to ensure uniform thickness of the layer across the full width of the road and to the specified camber. Spreading also includes, removing any oversized stones or boulders which can be broken down to required, size, spoil dump.

Where water needs to be added, it shall be applied in an even manner and the rate of application shall be such that no transverse or longitudinal flows occur. Unless otherwise instructed by the Engineer, the moisture content shall be within the range of +/- 2% of the optimum moisture content.

Work Method

The contractor shall use labour or equipment to carry out this item work.

Quality control
The gravel surface width shall be checked at every 100m interval using tape measure and shall have tolerance of +/- 50mm
Trial holes at every 100m shall be used to check the gravel surface thickness and shall have a tolerance of+5mm/-0mm
The camber cross fall shall be checked at every 50m and the maximum tolerances shall be +/- 1%
The longitudinal profile shall be checked with every load to ensure a smooth surface with no corrugations or depressions.

Measurement: M^3

The unit of measurement shall be the total volume in cubic metres of the gravel spread.

Payment

The unit rate shall be full compensation for labour, tools, material, equipment and any incidental costs required for carrying out the work.

10-50-006 Carriageway Grading – Heavy Grading

The Contractor shall scarify the existing carriageway surface, cutting high spots and moving materials to fill potholes, corrugations and wheel ruts and reshape the surface to the specified camber, using a Motor grader unless otherwise directed by the Engineer. All loose rocks, roots and grasses shall be removed and disposed of well clear of the drains.

Pegs 300 to 400mm long shall be placed at 20 m intervals to mark edge of the carriageway.

The material shall be bladed toward the centre of the road starting from both edges until the specified camber is achieved. Suitable material from the side drains may be used as additional material. Any further material needed to achieve the correct camber shall be from an approved source. Compaction shall be carried out using appropriate equipment approved by the Engineer, from the carriageway edges to the centerline in overlapping passes.

No grading shall be carried out in dry conditions. Where additional moisture is required to achieve compaction it shall be added in an even manner without transverse or longitudinal flow.

Work Method

The Contractor shall use **Equipment** to carry out this item.

Quality Control

1 The width of the carriageway shall be checked at every 50m intervals and have a tolerance of + 50mm or 20mm.

The camber shall be checked with a camber board at 25m intervals and shall have a tolerance of +/- 1%

Measurement Unit: m^2

The measurement shall be the area of carriageway graded, measured net according to the specified width and measured length graded.

Payment

The unit rate shall be the full compensation for labour, tools, equipment and incidental costs required for carrying out the work.

10-50- 004 : Carriageway Grading - Light Grading

The Contractor shall grade the carriageway to control roughness and corrugations using either a Towed or a Motor grader. The width of the carriageway shall be as specified for the Road Class.

Pegs 200 to 300mm long shall be placed at 20 m intervals to mark edge of the carriageway

The material shall be bladed toward the centre of the road, starting from both edges, to the specified camber. Where instructed by the Engineer, suitable materials from the side drains may be used to fill potholes and gullies in the carriageway. Any further material needed to re-form the camber shall be from an approved source. Compaction shall be achieved using the wheels of the equipment, tracked evenly over the full surface, or by other approved means. No grading shall be carried out in dry conditions.

Work Method

The Contractor shall use **Equipment** to carry out this item.

Quality Control

1. The width of the carriageway shall be checked at every 50m intervals and have a tolerance of +50mm or -20mm

2. The camber shall be checked with a camber board at 25m intervals and shall have a tolerance of +/- 1%

Measurement Unit: m^2

The measurement shall be the area of carriageway graded, measured net according to the specified width and measured length graded.

Payment

The unit rate shall be the full compensation for labour, tools, equipment and incidental costs required for carrying out the work.

10-80- 004 Removal of Overburden - Labour
10-80- 009 - Equipment

The Contractor shall remove overburden from quarries and borrow pits, which includes loading, hauling and stockpiling at approved locations. The thickness of the overburden layer to be removed shall be determined from trial pits dug on a 30 metre grid within the quarry area.

The overburden shall be deposited neatly for re-use to reinstate the quarry on completion of the Works, as directed by the Engineer.

Work Method:

The Contractor shall use **Labour** and appropriate **Equipment** to carry out this item .

Quality Control

- The location and manner of stock piling of the overburden for the reinstatement of the quarry shall be to the approval of the Engineer.

Measurement Unit: m^3

The measurement shall be the volume of overburden removed as calculated from the cleared area and the mean depth indicated from the trial pits.

Payment

The unit rate shall include full compensation for labour, tools materials and equipment, haulage, stockpiling and incidental costs required for carrying out the work.

SECTION 22: DAYWORKS

A Provisional Sum shall be included in the Bills of Quantities to cover the payment of equipment, labour and materials for work instructed by the Engineer on a Dayworks basis.

The Contractor shall include prices for all items in the Schedule of Rates, in the Dayworks Bill, and shall carry out work using these rates only if directed by the Engineer.

Measurement and Payment

a. Equipment:

Payment for equipment shall only be made for the time each item of equipment is working. Idle time due to breakdown or incompleteness of the equipment shall not be paid. The rate of equipment shall include for the cost of the following:-

i. Transport of the equipment to the site
ii. Operators , drivers and assistants including their overtime
iii. Fuels and lubricants
iv. Maintenance, spare parts and all costs of repairs
v. Depreciation, insurance, overheads and profits.

b. Labour

Payment shall only be made for the time each of worker working on the Dayworks as instructed by the Engineer. The rate for labour shall include the cost of,

i. All wages, allowances and other payments due to the worker
ii. Provision of small tools used on Dayworks activities by labourers and tradesmen.
iii. Insurance, overheads and profit.

c. Materials

Payment shall only be made for materials instructed by the Engineer for use in Dayworks activities. The rate for materials shall include for the cost of provision of the material, transport to site, storage, handling, overheads and profits.

Schedule of Dayworks

The Engineer shall compile a Schedule of the Equipment, Labour and Materials which may apply to Dayworks activities, to be included in the Dayworks Bill

SECTION VI – STANDARD FORMS

LIST OF STANDARD FORMS

(i) Form of Invitation for Tenders
(ii) Form of Tender

(iii) Appendix to Form of Tender
(iv) Letter of Acceptance

(v) Form of Agreement

(vi) Form of Tender Security

(vii) Performance Bank Guarantee(unconditional)

(viii) Bank Guarantee for Advance Payment

(ix) Tender Questionnaire

(xi) Confidential Business Questionnaire
(x) Statement of Foreign Currency Requirement

(xi) Schedule of Materials;- Basic Prices

(xii) Schedule of Labour;- Basic Prices

(xiii) Schedule of Plant and Equipment

(xiv) Details of Sub-Contractors
(xv) Certificate of Tenderer's Site visit
(xvii) Form of Written Power of Attorney
(xviii) Key Personnel

(xix) Completed Civil Works

(xx) Schedule of Ongoing Projects

(xxi) Other Supplementary Information

(xxii) Declaration Form

(xxiii) Request for Review

FORM OF INVITATION FOR TENDERS

_____*[date]*

To: _____ *[name of Contractor]*
_____*[address]*
_____
_____

Dear Sirs:

*Reference:*_____*[Contract Name]*

You have been prequalified to tender for the above project.

We hereby invite you and other prequalified tenderers to submit a tender for the execution and completion of the above Contract.

A complete set of tender documents may be purchased by you from ____
_____
[mailing address, cable/telex/facsimile numbers].

Upon payment of a non-refundable fee of Kshs _____

All tenders must be accompanied by _____number of copies of the same and a security in the form and amount specified in the tendering documents, and must be delivered to
_____
[address and location]

at or before _____*(time and date).* Tenders will be opened immediately thereafter, in the presence of tenderers' representatives who choose to attend.

Please confirm receipt of this letter immediately in writing by cable/facsimile or telex.

Yours faithfully,

_____ Authorised Signature

_____ Name and Title

FORM OF TENDER

TO: _____[Name of Employer)

_____[Date]

_____[Name of Contract]

Dear Sir,

i In accordance with the Conditions of Contract, Specifications, Drawings and Bills of Quantities for the execution of the above Works, We, the undersigned offer to construct, install and complete such Works and remedy any defects therein for the sum of Kshs._____[Amount in figures]Kenya Shillings_____

_____

_____[Amount in words]

ii We undertake, if our Tender is accepted, to commence the Works on the commencement

date and to complete the whole of the Works comprised in the Contract within the time stated in the Appendix.

iii We agree to abide by this Tender until _____[Insert date], and it shall remain binding upon us and may be accepted at any time before that date.

iv Unless and until a formal Agreement is prepared and executed this Tender together with your written acceptance thereof, shall constitute a binding Contract between us.

v We understand that you are not bound to accept the lowest or any Tender you may

receive. Dated this _____ day of _____20_____

Signature _____in the capacity of_____

duly authorized to sign Tenders for and on behalf of _____[Name of Tenderer] of

_____[Address of Tenderer]

Witness: Name_____

Address_____

Signature_____

Date_____

Tender-Securing Declaration Form (FOR SPECIAL GROUPS)

[The Bidder shall complete in this Form in accordance with the instructions indicated]

Date: [insert date (as day……., month and…….2018) of Bid Submission]

Tender No.[……]

To: [……insert complete name of Employer]

We, the undersigned, declare that:

i. We understand that, according to your conditions, bids must be supported by a Bid-Securing Declaration.

ii. We accept that we will automatically be suspended from being eligible for bidding in any contract with the Purchaser for the period of time of [insert number of months or years]starting on [insert date],if we are in breach of our obligation(s) under the bid conditions, because we –

Have withdrawn our Bid during the period of bid validity specified by us in the Bidding Data Sheet; or

Having been notified of the acceptance of our Bid by the Purchaser during the period of bid validity,

I) fail or refuse to execute the Contract, if required, or

Fail or refuse to furnish the Performance Security, in accordance with the ITT.

iii. We understand that this Bid Securing Declaration shall expire if we are not the successful Bidder, upon the earlier of

our receipt of a copy of your notification of the name of the successful Bidder; or

(Ii) twenty-eight days after the expiration of our Tender.

14 We understand that if we are a Joint Venture, the Bid Securing Declaration must be in the name of the Joint Venture that submits the bi, and the Joint Venture has not been legally constituted at the time of bidding, the Bid Securing

Declaration shall be in the names of all future partners as named in the letter of intent.

Signed: [……insert signature of person whose name

and capacity are shown] in the capacity of […….insert legal
capacity of person signing the Bid Securing Declaration]
Name: [……insert complete name of person signing the

Bid Securing Declaration]

Duly authorized to sign the bid for and on behalf of: [insert complete name of Bidder]

Dated on ..... day of ....., ... [Insert date of signing]

PERFORMANCE BANK GUARANTEE

To: _____(Name of Employer) _____(Date)

_____(Address of Employer)

Dear Sir,

WHEREAS _____(hereinafter called "the Contractor") has undertaken, in pursuance of Contract No. _____ dated _____ to execute _____

(hereinafter called "the Works");

AND WHEREAS it has been stipulated by you in the said Contract that the Contractor shall furnish you with a Bank Guarantee by a recognised bank for the sum specified therein as security for compliance with his obligations in accordance with the Contract;

AND WHEREAS we have agreed to give the Contractor such a Bank Guarantee:

NOW THEREFORE we hereby affirm that we are the Guarantor and responsible to you, on behalf of the Contractor, up to a total of Kshs. _____ (amount of Guarantee in figures) Kenya Shillings_____ (amount of Guarantee in words), and we undertake to pay you, upon your first written demand and without cavil or argument, any sum or sums within the limits of Kenya Shillings _____ (amount of Guarantee in words) as aforesaid without your needing to prove or to show grounds or reasons for your demand for the sum specified therein.

We hereby waive the necessity of your demanding the said debt from the Contractor before presenting us with the demand.

We further agree that no change, addition or other modification of the terms of the Contract or of the Works to be performed thereunder or of any of the Contract documents which may be made between you and the Contractor shall in any way release us from any liability under this Guarantee, and we hereby waive notice of any change, addition, or modification.

This Guarantee shall be valid until the date of issue of the Employer's notice under Sub-Clause 8.2 (Taking-Over Notice), of the Conditions of Contract.

SIGNATURE AND SEAL OF THE GUARANTOR _____

Name of Bank _____

Address _____

Date _____

BANK GUARANTEE FOR ADVANCE PAYMENT

To: _____ [Name of Employer] _____(Date)

_____[Address of Employer]
Gentlemen,

Ref: _____[name of Contract]

In accordance with the provisions of the Conditions of Contract of the above-mentioned Contract, **We,**_____[name and Address of Contractor] (hereinafter

called "the Contractor") shall furnish you with a Bank guarantee by a recognised Bank for the sum

specified therein as a security for compliance with his obligations in accordance with the Contract in an

amount of Kshs._____[amount of Guarantee in figurers] Kenya Shillings_____[amount of Guarantee in words].

We, the _____[bank or financial institution], as instructed by the Contractor, agree

unconditionally and irrevocably to guarantee as primary obligator and not as Surety merely, the payment to _____[name of Employer] on his first demand without whatsoever right of objection on our part and without his first claim to the Contractor, in the amount not exceeding Kshs_____[amount of Guarantee in figures]Kenya Shillings _____[amount of Guarantee in words].

We further agree that no change or addition to or other modification of the terms of the Contract or of the Works to be performed thereunder or of any of the Contract documents which may be made between _____[name of Employer] and the Contractor, shall in any way release us from any liability under this Guarantee, and we hereby waive notice of any such change, addition or modification.

This Guarantee shall remain valid and in full effect from the date of the Advance Payment under the Contract until _____(name of Employer) receives full payment of the same amount from the Contract.

Yours faithfully,
Signature and Seal _____

Name of the Bank or financial institution _____
Address
_____

Date _____

Witness: Name: _____

Address: _____

Signature: _____

Date: _____

FORM OF AGREEMENT

THIS AGREEMENT is made on the ……day of ….. 2018 between the **County**

Government of Nandi, of P.O. BOX 802 -30300, Kapsabet, Kenya hereinafter called the "**Employer** "of the one part and ---------- ----------hereinafter called the "**Contractor**" of the other part.

WHEREAS the Employer is desirous that certain works should be executed, viz: ------ ----------
And has accepted a Bid by the Contractor to execute, complete and maintain such works **NOW THIS AGREEMENT WITNESSETH as follows:**

In this agreement words and expressions shall have the same meanings as are respectively assigned to them in the Conditions of Contract hereinafter referred to.

The following documents shall be deemed to form and be read and construed as part of this Agreement, viz.:

The said BID dated ----------

10 Conditions of Contract; Parts I and II

11 The Standard and Special Specifications;

12 Priced Bill of Quantities;

13 Letter of Acceptance;

14 Form of Tender

15 Drawings;

16 Appendix to the Form of Agreement

17 Schedule Of Supplementary Information

18 Other Documents/Materials/Conditions agreed and documented.

All aforesaid documents are hereinafter referred to as "**The Contract**".

In consideration of the payment to be made by the **Employer** to the **Contractor**, the Contractor covenants with the Employer to execute and complete the Works in conformity with the provisions of the Contract.

The Employer hereby covenants to pay the Contractor in consideration of the execution, completion and maintenance of the Works at the Contract Price or such other sum as may become payable under the Contract at the times and in the manner prescribed by the Contract.
IN WITNESS WHEREOF the parties hereto have caused their respective common seals to be hereto affixed (or have hereunto set their respective hands and seals) on the day and year first above written.

SIGNED AND DELIVERED

By the said **Employer**:…….....…….

Signature: ……..

Designation

(Chief Officer, Roads, Transport and Energy)

(For and on behalf of the said Employer.)

In the presence of:…….....

Signature……

By the said **Contractor:**
…….....……...

Signature……

Designation:…….

(For and on behalf of the said Contractor)

In the presence of : .....

Signature:……
Address:…….

QUALIFICATION INFORMATION

TENDER QUESTIONNAIRE

Please fill in block letters.

i. Full name of Tenderer;

……

ii. Full address of Tenderer to which Tender correspondence is to be sent (unless an agent has been appointed below);

……

iii. Telephone number (s) of Tenderer;

……

iv. Facsimile of Tenderer;

……

v. Name of Tenderer's representative to be contacted on matters of the Tender during the Tender period;

……

vi. Details of Tenderer's nominated agent (if any) to receive Tender notices (name, address, telephone, telefax);

……

……

_____

Signature of Tenderer

Make copy and deliver to:_____(Name of Employer) (The Tenderer shall leave one copy at the time of purchase of the Tender documents)

CONFIDENTIAL BUSINESS QUESTIONNAIRE

You are requested to give the particulars indicated in Part 1 and either Part 2 (a) or 2 (b) whichever applies to your type of business.

You are advised that it is a serious offence to give false information on this Form.

Part 1 – General

Business Name ……

Location of business premises; Country/Town……..…..

Plot No…… Street/Road ……

Postal Address…… Tel No……..

Nature of Business……..…..

Current Trade Licensee No…… Expiring date……..……

Maximum value of business which you can handle at any time: Kshs ……

Name of your Bankers……..…

Branch……..…

Part 2 (b) – Partnership

Give details of partners as follows:

Name in full Nationality Citizenship Details Shares

1……

2……

3……

Part 2(c) – Registered Company:

Private or public…….....…

State the nominal and issued capital of the Company-

Nominal Kshs…….....……

Issued Kshs…….....…

Give details of all directors as follows:

Name in full . Nationality. Citizenship Details*. Shares.

1.……..…....…

2.……..…....…

3.…….....…

4.…….....…

Part 2(d) – Interest in the Firm:

Is there any person / persons in …… …… (Name of Employer) who

has interest in this firm? Yes/No…… (Delete as necessary)

I certify that the information given above is correct.

…… ……
…….....… (Title) (Signature) (Date)

* Attach proof of citizenship

SCHEDULE OF LABOUR: - BASIC RATES

(Reference: Clause 4 of Conditions of Particular Application)

LABOUR **CATEGORY**	UNIT (MONTH/SHIFT/HOUR	**RATES**

Categories to be generally in accordance with those used by the Kenya Building Construction and Engineering and Allied Trades Workers' Union.

I certify that the above information is correct.

……
(Title)

…… ……
(Signature) *(Date)*

CERTIFICATE OF TENDERER'S VISIT TO SITE

This is to certify that

[Name/s]……
……..

……
……..

Being the authorized representative/Agent of [Name of Tenderer]
……
……

……
……

held on …… day of……20……

Signed……..
(Employer's Representative)

……..

NOTE: This form is to be completed when the site visit is made

FORM OF WRITTEN POWER-OF-ATTORNEY

The Tenderer consisting of a joint venture shall state here below the name and address of his representative who is authorised to receive on his behalf correspondence in connection with the Tender.

……

(Name of Tenderer's Representative in block letters)

……

(Address of Tenderer's Representative)

……

(Signature of Tenderer's Representative)

KEY PERSONNEL

DESIGNATION	NAME	NATIONALITY	SUMMARY OF QUALIFICATIONS AND EXPERIENCE
Headquarters: 1. Managing Director 2. 3. 4. 5. etc.			
Site Office: 1. Site Supervisor 2. 3. 4. 5. 6			

I certify that the above information is correct.

…… ..
(Title) … (Date)
…
…
…… …
(Signature) …
…
…

SCHEDULE OF THE PROPOSED APPROPRIATE EQUIPMENT.

Mandatory minimum number of equipment required by the Employer for the execution of the project that the bidder must make available for the Contract

Item No.	Equipment Details	Minimum Number Required	No of Equipment Owned by the Bidder	No. of equipment to be hired
1	Grader	1		
2	Tippers payload 10 – 20 tonnes	2		
3	Water tankers (10,000 litres capacity)	1		
4	Concrete mixer	1		
5	Shovel	1		
6	Drum roller	1		

The Bidder must attach certified copies of log books or lease agreement of the following

I certify that the above information is correct.

……
… (Title)

…… (Signature)

…….. (Date)

SCHEDULE OF COMPLETED CIVIL WORKS CARRIED OUT IN THE PREVIOUS YEARS

DESCRIPTION OF WORKS AND CLIENT	TOTAL VALUE OF WORKS (KSHS)	CONTRACT PERIOD (YEARS)	YEAR COMPLETED

I certify that the above Civil Works were successfully carried out and completed by ourselves.

……
… (Title)

…… …… (Date)
(Signature)

SCHEDULE OF ONGOING PROJECTS

DESCRIPTION OF WORK AND CLIENT	CONTRACT PERIOD	DATE OF COMMEN-CEMENT	DATE OF COMPLETION	TOTAL VALUE OF WORKS (KSHS.)	% COMPLETED TODATE

I certify that the above Civil Works are being carried out by ourselves and that the above information is correct.

……
(Title)

……
(Signature)

……
(Date)

OTHER SUPPLEMENTARY INFORMATION

ii. Financial reports for the last three years, balance sheets, profit and loss statements,

auditors' reports etc. List them below and attach copies.

……
……
……

a. Evidence of access to financial resources to meet the qualification requirements. Cash in hand, lines of credit etc. List below and attach copies of supporting

documents

……
……
……

i. Name, address , telephone, telex, fax numbers of the Tenderer's Bankers who may provide reference if contacted by the Employer.

……
……
……

b. Information on current litigation in which the Tenderer is involved.

OTHER PARTY (IES)	CAUSE OF DISPUTE	AMOUNT INVOLVED (KSHS)

I certify that the above information is correct.

……

Title

……

Signature

……

Date

ADJUDICATOR'S AGREEMENT

Identification of Project:

……
(the "Project")

Name and address of the Employer:

……..
(the "Employer")

Name and address of the Contractor:

……..
(the "Contractor")

Name and address of the Adjudicator:

……..
(the "Adjudicator")

Whereas the Employer and the Contractor have entered into a Contract ("the Contract") for the execution of the Project and wish to appoint the Adjudicator to act as adjudicator in accordance with the Rules for Adjudication ["the Rules"].

The Employer, Contractor and Adjudicator agree as follows:

1. The Rules and dispute provisions of the Contract shall form part of this Agreement.
2. The Adjudicator shall be paid:

A retainer fee of ……...…….. per calendar month(where applicable)
A daily fee of ……..…
Expenses (including the cost of telephone calls, courier charges, faxes and telexes incurred in connection with his duties; all reasonable and necessary travel expenses, hotel accommodation and subsistence and other direct travel expenses).

Receipts will be required for all expenses.
The Adjudicator agrees to act as Adjudicator in accordance with the Rules and has disclosed to the Parties any previous or existing relationship with the Parties or others concerned with the Project.

(a) This Agreement shall be governed by the laws of……

(b) The Language of this Agreement shall be ……..

SIGNED BY ……..……

For and on behalf of the Employer in the presence of

Witness ……...

Name……...

Address ……...

Date……...

SIGNED BY ……..……

For and on behalf of the Contractor in the presence of

Witness ……...

Name……...

Address ……...

Date……...

SIGNED BY ……..……
For and on behalf of the Adjudicator in the presence of
Witness ……...
Name……...

Address ……...
Date……...

FRAUD & CORRUPTION

1. If the Employer determines that the Contractor has engaged in corrupt, fraudulent, collusive, coercive or obstructive practices, in competing for or in executing the Contract, then the Employer may, after giving 14 days notice to the Contractor, terminate the Contractor's employment under the Contract and expel him from the Site.

2. Should any employee of the Contractor be determined to have engaged in corrupt, fraudulent, collusive, coercive, or obstructive practice during the execution of the Works, then that employee shall be removed.

3. For the purposes of this Sub-Clause:

   i "corrupt practice" is the offering, giving, receiving or soliciting, directly or indirectly, of anything of value to influence improperly the actions of another party;
   ii "fraudulent practice" is any act or omission, including a misrepresentation, that knowingly or recklessly misleads, or attempts to mislead, a party to obtain a financial or other benefit or to avoid an obligation;
   iii "collusive practice" is an arrangement between two or more parties designed to achieve an improper purpose, including to influence improperly the actions of another party;
   iv "Coercive practice" is impairing or harming, or threatening to impair or harm, directly or indirectly, any party or the property of the party to influence improperly the actions of a party.

4. The Contractor declares that:

   (a) They did not engage in any action to influence the Project implementation process to the detriment of the Employer, in particular no collusive practice took place nor will take place, and

The bidding proceedings, contract award, and execution have not and will not be subject to any corrupt practice as defined in the United Nations Convention to combat corruption dated 31 October 2003.
Dated this _____ day of _____20_____

Signature _____in the capacity of_____
duly authorized to sign Tenders for and on behalf of
_____[Name of Tenderer] of

_____[Address of Tenderer]

_____[Seal or Stamp of Tenderer]

ENVIRONMENTAL AND SOCIAL COMMITMENT

I have taken due note of the importance to comply with environmental and social standards and regulations.

I, the undersigned, […….] acting as the duly authorized representative of

[…….],

With respect to the submission of a bid for [……] in accordance with the invitation to

tender No […….], I undertake to comply, and ensure that our subcontractors, if any,

comply with international environmental and labour standards consistent with applicable law and regulations in the country of implementation of the Project, including the fundamental conventions of the International Labour Organisation (ILO) and international environmental treaties

In addition, I also undertake to adopt any environmental and social risk mitigation measures as defined in the environmental and social management plan or the notice of environmental and social impact issued by the Employer.

Dated this _____ day of _____20_____

Signature _____in the capacity of_____

duly authorized to sign Tenders for and on behalf of
_____[Name of Tenderer] of

_____[Address of Tenderer]

_____[Seal or Stamp of Tenderer]

FORM RB 1

REPUBLIC OF KENYA

PUBLIC PROCUREMENT ADMINISTRATIVE REVIEW BOARD

APPLICATION NO…….OF……..….20……...

BETWEEN

…….APPLICANT

AND

……RESPONDENT (Procuring Entity)

Request for review of the decision of the…… (Name of the Procuring Entity) of

……dated the…day of ……..20…….in the matter of Tender No……..…of

……..20…

REQUEST FOR REVIEW

I/We……,the above named Applicant(s), of address: Physical

address……..Fax No……Tel. No……..Email ……, hereby request the Public

Procurement Administrative Review Board to review the whole/part of the above mentioned decision

on the following grounds , namely:-

1.
2.
etc.

By this memorandum, the Applicant requests the Board for an order/orders that: - 1.

2.

etc

SIGNED …….(Applicant)

Dated on…….day of ……/…20…
FOR OFFICIAL USE ONLY
Lodged with the Secretary Public Procurement Administrative Review Board on …… day of

……....20…..……

SIGNED

Board Secretary

DECLARATION FORM

Date _____

To _____
_____
_____

The tenderer i.e. (Name and address) _____

declare the following: _____

31 Has not been debarred from participating in public procurement.

32 Has not been involved in and will not be involved in corrupt and fraudulent practices regarding public procurement.

_____ _____ _____

Title Signature Date

(To be signed by authorized representative and officially stamped)

SECTION VII– BILLS OF QUANTITIES

Notes for preparing Bills of Quantities

1.0 **Preamble To Bill of Quantities**

a) The Bill of Quantities shall form part of the Contract Documents and is to be read in conjunction with the Instructions to Tenderers, Conditions of Contract Parts I and II, Specifications and Drawings.

b) The brief description of the items in the Bill of Quantities is purely for the purpose of identification, and in no way modifies or supersedes the detailed descriptions given in the conditions of Contract and Specifications for the full direction and description of work and materials.

c) The Quantities set forth in the Bill of Quantities are estimated and provisional, representing substantially the work to be carried out, and are given to provide a common basis for tendering and comparing of Tenders. There is no guarantee to the Contractor that he will be required to carry out all the quantities of work indicated under any one particular item or group of items in the Bill of Quantities. The basis of payment shall be the Contractor's rates and the quantities of work actually done in fulfillment of his obligation under the Contract.

d) The prices and rates inserted in the Bills of Quantities will be used for valuing work executed, and the Engineer will measure the whole of the works executed in accordance with this Contract.

e) A price or rate shall be entered in ink against every item in the Bill of Quantities with the exception of items, which already have provisional sums, affixed thereto. The Tenderers are reminded that no "nil" or "included" rates or "lump-sum" discounts will be accepted. The rates for various items should include discounts if any. Tenderers who fail to comply will be disqualified.

f) Provisional sums (including Day works) in the Bill of Quantities shall be expended in whole or in part at the discretion of the Engineer in accordance with Sub-clause 52.4 and Clause 58 of part of the Conditions of Contract.

g) The price and rates entered in the Bill of Quantities shall, except insofar as it is otherwise provided under the Contract, include all Constructional plant to be used, labour, insurance, supervision, compliance, testing, materials, erection, maintenance or works, overheads and profits, taxes and duties together with all general risks, liabilities and obligations set out or implied in the Contract, transport,

electricity and telephones, water, use and replenishment of all consumables, including those required under the Contract by the Engineer and his staff.

h) Errors will be corrected by the County Government of Nandi for any arithmetic errors in computation or summation as follows:

(a) Where there is a discrepancy between amount in words and figures, the amount in words will govern; and

(b) Where there is a discrepancy between the unit rate and the total amount derived from the multiplication of the unit price and the quantity, the unit rate as quoted will govern, unless in the opinion of the County Government of Nandi, there is an obviously gross misplacement of the decimal point in the unit price, in which event the total amount as quoted will govern and the unit rate will be corrected.

(c) If a Tenderer does not accept the correction of errors as outlined above, his Tender will be rejected.

i) The Bills of Quantities, unless otherwise expressly stated therein, shall be deemed to have been prepared in accordance with the principles of the latest edition of the Civil Engineering Standard Method of Measurement (CESMM).

j) "Authorised" "Directed" or "Approved" shall mean the authority, direction or approval of the Engineer.

k) Unless otherwise stated, all measurements shall be net taken on the finished work carried out in accordance with the details shown on the drawings or instructed, with no allowance for extra cuts or fills, waste or additional thickness necessary to obtain the minimum finished thickness or dimensions required in this Contract. Any work performed in excess or the requirements of the plans and specifications will not be paid for, unless ordered in writing by the Engineer.

l) (a) Hard material, in this Contract, shall be defined as the material which, in the opinion of the Engineer, require blasting, or the use of metal wedges and sledgehammers, or the use of compressed air drilling for their removal, and which cannot be extracted by ripping with a dozer tractor of at least 150 brake horse power (112 kilowatt) with a single, rear-mounted, hydraulic ripper. Boulders of more than $0.2m^3$ occurring in soft material shall be classified as hard material.

(b) Soft material shall be all material other than hard material.

2.0 The objectives of the Bills of Quantities are;

(a) to provide sufficient information on the quantities of Works to be performed to enable tenders to be prepared efficiently and accurately; and

(b) when a Contract has been entered into, to provide a priced Bills of Quantities for use in the periodic valuation of Works executed.

In order to attain these objectives, Works should be itemized in the Bills of Quantities in sufficient detail to distinguish between the different classes of Works, or between Works of the same nature carried out in different locations or in other circumstances which may give rise to different considerations of cost. Consistent with these requirements, the layout and content of the Bills of Quantities should be as simple and brief as possible.

3.0 The Bills of Quantities should be divided generally into the following sections:

(a) Preliminaries.

The preliminaries should indicate the inclusiveness of the unit prices, and should state the methods of measurement which have been adopted in the preparation of the Bills of Quantities and which are to be used for the measurement of any part of the Works.

The number of preliminary items to be priced by the tenderer should be limited to tangible items such as site office and other temporary works, otherwise items such as security for the Works which are primarily part of the Contractor's obligations should be included in the Contractor's rates.

(b) Work Items

(i) The items in the Bills of Quantities should be grouped into sections to distinguish between those parts of the Works which by nature, location, access, timing or any other special characteristics may give rise to different methods of construction or phasing of the Works or considerations of cost. General items common to all parts of the Works may be grouped as a separate section in the Bills of Quantities.

(ii) The brief description of the items in the Bill of Quantities should in no way modify or supersede the detailed descriptions given in the Contract drawings, Conditions of Contract and Specifications.

(iii) Quantities should be computed net from the Drawings, unless directed otherwise in the Contract, and no

allowance should be made for bulking, shrinkage or waste. Quantities should be rounded up or down where appropriate.

(iv) The following units of measurement and abbreviations are recommended for use.

Unit	*Abbreviation*	*Unit*	*Abbreviation*
cubic meter	m^3 or cu m	millimeter	mm
hectare	ha	month	mon
hour	h	number	nr
kilogram	kg	square meter	m^2 or sq m
lump sum	sum	square millimeter	mm^2 or sq mm
meter	m	week	wk
metric ton (1,000 kg)	t		

(v) The commencing surface should be identified in the description of each item for Work involving excavation, boring or drilling, for which the commencing surface is not also the original surface. The excavated surface should be identified in the description of each item for Work involving excavation for which the excavated surface is not also the final surface. The depths of Work should be measured from the commencing surface to the excavated surface, as defined.

(c) Daywork Schedule

A Daywork Schedule should be included if the probability of unforeseen work, outside the items included in the Bills of Quantities is relatively high. To facilitate checking by the County Government of Nandi of the realism of rates quoted by the tenderers, the Daywork Schedule should normally comprise:

(i) a list of the various classes of labour, and materials for which basic Daywork rates or prices are to be inserted by the tenderer, together with a statement of the conditions under which the Contractor will be paid for Work executed on a Daywork basis; and

(ii) a percentage to be entered by the tenderer against each basic Daywork Subtotal amount for labour, materials and plant representing the Contractor's profit, overheads, supervision and other charges.

(d) Provisional Quantities and Provisional Sums

(i) Provision for quantity contingencies in any particular item or class of Work with a high expectation of quantity overrun should be made by entering specific "Provisional Quantities" or "Provisional Items" in the Bills of Quantities, and *not* by increasing the quantities for that item or class of Work beyond those of the Work normally expected to be required. To the extent not covered above, a general provision for physical contingencies (quantity overruns) should be made by including a "Provisional Sum" in the Summary of the Bills of Quantities. Similarly, a contingency allowance for possible price increases should be provided as a "Provisional Sum" in the Summary of the Bills of Quantities. The inclusion of such provisional sums often facilitates budgetary approval by avoiding the need to request periodic supplementary approvals as the future need arises.

ii Provisional Sums to cover specialized works normally carried out by Nominated Sub Contractors should be avoided and instead Bills of Quantities of the specialised Works should be included as a section of the main Bill of Quantities to be priced by the Main Contractor. The Main Contractor should be required to indicate the name (s) of the specialised firms he proposes to engage to carry out the specialized Works as his approved domestic sub-contractors. Only Provisional Sums to cover specialized Works by statutory authorities should be included in the Bills of Quantities.

iii Unless otherwise provided in the Contract, the Provisional Sums included in the Bills of Quantities should always be expended in whole or in part at the discretion of the Engineer after full consultation with the County Government of Nandi.

(e) Summary

The Summary should contain a tabulation of the separate parts of the Bills of Quantities carried forward, with Provisional Sums for Dayworks, physical (quantity) contingencies, and price contingencies (upward price adjustment) where applicable.

Bill of Quantities

ROAD NAME:	**LEMOOK-KABRUCE-KAPSIKIRYO-KAMOTONG**				
WARD :	**NDALAT**				
SUBCOUNTY-	**MOSOP**				
Bill of Quantities					**Page: 1**
Bill No.1	**General: Office administration and overheads/Preliminaries**				**Project:**
Item No.	**Description**	**Units**	**Qty**	**Rate**	**Amount KSh**
01-50-01	Sum for Engineer's staff supervision allowances	PC	-		
01-50-002	Provide and install puplicity post	NO	2		
	Total Carried Forward to Summary:				

ROAD NAME:	**LEMOOK-KABRUCE-KAPSIKIRYO-KAMOTONG**				
WARD :	**NDALAT**				
SUBCOUNTY-	**MOSOP**				
Bill of Quantities					**Page: 2**
Bill No.4	**SITE CLEARANCE**				**Project:**
	Description	**Units**	**Qty**	**Rate**	**Amount KSh**
04-50-003	Heavy bush Clearing	M^2	10,500		
04-50-004	Light bush Clearing	M^2	-		
04-50-005	Trees and stump removal	D\W	10		
04-50-006	Boulder removal	D\W	-		
	Total Carried Forward to Summary:				

ROAD NAME:	**LEMOOK-KABRUCE-KAPSIKIRYO-KAMOTONG**				
WARD :	**NDALAT**				
SUBCOUNTY:	**MOSOP**				
Bill of Quantities					**Page: 3**
Bill No.5	**EARTHWORKS**				**Project:**
Item No.	**Description**	**Units**	**Qty**	**Rate**	**Amount KSh**
05-50-027	Mitre drains excavation/ditching	M^3	40		
05-50-028	Cut to spoil in soft material	M^3			
05-50-029	Fill in hard material and compact	M^3	100		
	Total Carried Forward to Summary:				

ROAD NAME:	**LEMOOK-KABRUCE-KAPSIKIRYO-KAMOTONG**				
WARD :	**NDALAT**				
SUBCOUNTY:	**MOSOP**				
Bill of Quantities					**Page: 4**
Bill No.7	**EXCAVATION AND FILLING FOR STRUCTURES**				**Project:**
Item No.	**Description**	**Units**	**Qty**	**Rate**	**Amount KSh**
07-50-001	Excavate for structure in soft material	M^3	50		
07-50-002	Excavate for structure in hard material	M^3	0		
	Total Carried Forward to Summary:				

ROAD NAME:	**LEMOOK-KABRUCE-KAPSIKIRYO-KAMOTONG**				
WARD :	**NDALAT**				
SUBCOUNTY:	**MOSOP**				
Bill of Quantities					Page: 5
Bill No.8	**CULVERT AND DRAINAGE WORKS**				**Project:**
Item No.	**Description**	**Units**	**Qty**	**Rate**	**Amount KSh**
08-60-026	Culvert installation 600mm haunched with class 20/25 concrete surround	M	35		
08-60-027	Culvert installation 900mm haunched with class 20/25 concrete surround	M	14		
08-60-02	Scour Checks-wooden stakes	NO.	0		
	Total Carried Forward to Summary:				

ROAD NAME:	**LEMOOK-KABRUCE-KAPSIKIRYO-KAMOTONG**				
WARD :	**NDALAT**				
SUBCOUNTY:	**MOSOP**				
Bill of Quantities					**Page: 6**
Bill No.10	**GRADING AND GRAVELLING WORKS**				**Project:**
	Description	**Units**	**Qty**	**Rate**	**Amount KSh**
10-60-026	Heavy grading	M^2	32200		
10-60-027	Provide gravel wearing course	M^3	2350		
10-60-026	Compaction by roller	M^2	20000		
	Total Carried Forward to Summary:				

Bill of Quantities					Page: 7
ROAD NAME:	**LEMOOK-KABRUCE-KAPSIKIRYO-KAMOTONG**				
WARD :	**NDALAT**				
SUBCOUNTY:	**MOSOP**				
Bill No.17	**CONCRETE WORKS**				**Project:**
	Description	**Units**	**Qty**	**Rate**	**Amount KSh**
17-060-001	Class 15/20 conc. blinding	M^3	6.5		
	Total Carried Forward to Summary:				

ROAD NAME:	**LEMOOK-KABRUCE-KAPSIKIRYO-KAMOTONG**				
WARD :	**NDALAT**				
SUBCOUNTY:	**MOSOP**				
Bill of Quantities					**Page: 8**
Bill No.22	**DOZING WORKS**				**Project:**
Item No.	**Description**	**Units**	**Qty**	**Rate**	**Amount KSh**
22-001-001	Dozing	Hrs	18		
	Total Carried Forward to Summary:				

ROAD NAME:	**LEMOOK-KABRUCE-KAPSIKIRYO-KAMOTONG**				
WARD :	**NDALAT**				
SUBCOUNTY:	**MOSOP**				
Bill of Quantities					**Page: 9**
	Summary				**Project:**
Item No.	**Description**				**Amount (KShs)**
1	General: Office administration and overheads/Preliminaries				
4	SITE CLEARANCE				
5	EARTHWORKS				
8	DRAINAGE WORKS				
10	GRADING AND GRAVEL WORKS				
17	CONCRETE WORKS				
22	DOZING WORKS				
	Sub Total				
	Add VAT @ 16 %				
	Total				
	Carried to page on the form of Tender				