



agriculture & rural development

Department:
agriculture
& rural development
PROVINCE OF KWAZULU-NATAL

INVITATION OF QUOTATION ABOVE R30,000.00

THIS FORM SHOULD BE COMPLETED IN DETAIL AND SHOULD BE ACCOMPANIED BY A **VALID TAX COMPLIANCE STATUS PIN AND VALID BBBEE VERIFICATION CERTIFICATE/AFFIDAVIT**

QUOTATION NUMBER: R/S/1920/1455	VALIDITY PERIOD OF QUOTATION..... Days (To be completed by the Supplier)
CLOSING DATE: 20/11/2019	CLOSING TIME: 11H00
DESCRIPTION(SPECIFICATION/S) OF ITEMS/ SERVICE REQUIRED: TO REPAIR THE CATTLE CRUSH AT STUDENT FARM AT CEDARA COLLEGE- UMGUNGUNDLOVU DISTRICT SEE ATTACHED SPEC	COMPANY NAME: TEL NO: FAX NO: CONTACT PERSON: CSD REG NUMBER MAAA.....
DOES OFFER COMPLY WITH SPECIFICATION?	YES/NO (DELETE WHICH EVER IS NOT APPLICABLE)
DOES ARTICLE COMPLY WITH SABS SPECIFICATION? HAS IT BEEN INSPECTED BY SABS?	YES/NO YES/NO (DELETE WHICH EVER IS NOT APPLICABLE)
DELIVERY PERIOD AFTER INITIAL ORDER?	
IS THE PRICE FIRM	
WHERE ARE THE STOCK HELD? (PHYSICAL ADDRESS , PLEASE)	
QUOTATION PRICE INCLUDING VAT (VAT TO BE ADDED BY REGISTERED VAT VENDORS ONLY)	TOTAL: R
COMPANY OFFICIAL STAMP (COMPULSORY) SIGNATURE OF BIDDER DATE
NUMBER OF PAGES FAXED BACK TO THE DEPARTMENT BY THE SUPPLIER(Supplier to complete)

NB DOCUMENT TO BE DEPOSITED AT THE BID BOX SCM –HILTON 4 PIN OAK AVENUE NO EMAILED QUOTATIONS WILL BE ACCEPTED

FOR ATTENTION: **MS BONGIE MBOKAZI**
CONTACT NUMBER : **033 343 8312**

THE RECOMMENDED SERVICE PROVIDER WILL BE REQUIRED TO SUBMIT AN ORIGINAL TAX CLEARANCE CETIFICATE, FAILURE TO SUBMIT AN ORIGINAL TAX CLEARANCE CERTIFICATE WHEN REQUIRED TO DO SO WILL RENDER THE QUOTATION INVALID.THE ATTACHED SBD4 & SBD9 FORMS MUST BE COMPLETED IN FULL. THIS QUOTATION COVER PAGE MUST BE COMPLETED AND RETURN WITH YOUR QUOTATION THIS QUOTATION COVER PAGE MUST BE COMPLETED AND RETURNED WITH ALL YOUR QUOTATION DOCUMENTS.

COMPANY NAME :
 ADDRESS :
 CONTACT PERSON :
 CONTACT NUMBER :
 FAX NUMBER :

LINE NO.	DESCRIPTION OR SPECIFICATION OF ITEM (Please be very specific and clear)	REQUIRED QUANTITY	UNIT PRICE EXCL. VAT		TOTAL PRICE	
			R	C	R	C
1	Repair Cattle Crush at Student Farm at Cedara College as per the attached specifications.	1				
* LABOUR (IF APPLICABLE)						
*DELIVERY (IF APPLICABLE)						
TOTAL						
*ONLY APPLICABLE TO VAT REGISTERED SUPPLIERS 14% VAT						
TOTAL PRICE						

*VAT Registration No. (Supplier) _____
 When Required (Requester): 30 November 2019
 Where Required (Requester): Cedara College: Nkululeko Mswazi
 Contact details of requester: Nkululeko.Mswazi@kzndard.gov.za
 TEL : 082 091 0252

(COMPULSORY)
 COMPANY STAMP

PRICES ARE VALID FOR..... DAYS
 SIGNATURE.....
 DATE

DECLARATION OF INTEREST

1. Any legal person, including persons employed by the state¹, or persons having a kinship with persons employed by the state, including a blood relationship, may make an offer or offers in terms of this invitation to bid (includes an advertised competitive bid, a limited bid, a proposal or written price quotation). In view of possible allegations of favouritism, should the resulting bid, or part thereof, be awarded to persons employed by the state, or to persons connected with or related to them, it is required that the bidder or his/her authorised representative declare his/her position in relation to the evaluating/adjudicating authority where-

- the bidder is employed by the state; and/or
- the legal person on whose behalf the bidding document is signed, has a relationship with persons/a person who are/is involved in the evaluation and or adjudication of the bid(s), or where it is known that such a relationship exists between the person or persons for or on whose behalf the declarant acts and persons who are involved with the evaluation and or adjudication of the bid.

2. **In order to give effect to the above, the following questionnaire must be completed and submitted with the bid.**

2.1 Full Name of bidder or his or her representative:

.....

2.2 Identity Number:

.....

2.3 Position occupied in the Company (director, trustee, shareholder², member):

.....

2.4 Registration number of company, enterprise, close corporation, partnership agreement or trust:

.....

2.5 Tax Reference Number:

.....

2.6 VAT Registration Number:

.....

2.6.1 The names of all directors / trustees / shareholders / members, their individual identity numbers, tax reference numbers and, if applicable, employee / PERSAL numbers must be indicated in paragraph 3 below.



1"State" means –

- (a) any national or provincial department, national or provincial public entity or constitutional institution within the meaning of the Public Finance Management Act, 1999 (Act No. 1 of 1999);
- (b) any municipality or municipal entity;
- (c) provincial legislature;
- (d) national Assembly or the national Council of provinces; or
- (e) Parliament.

2"Shareholder" means a person who owns shares in the company and is actively involved in the management of the enterprise or business and exercises control over the enterprise.

Please clearly indicate, with an 'X' only one box that is applicable to your business or firm

2.7 Are you or any person connected with the bidder presently employed by the state?

YES	NO
-----	----

2.7.1 If so, furnish the following particulars:

Name of person / director / trustee / shareholder/member:

.....

Name of state institution at which you or the person connected to the bidder is employed

.....

Position occupied in the state institution:

.....

Any other particulars:

.....

2.7.2 If you are presently employed by the state, did you obtain

YES	NO
-----	----

the appropriate authority to undertake remunerative work outside employment in the public sector?

If yes, did you attach proof of such authority to the bid document?

YES	NO
-----	----

(Note: Failure to submit proof of such authority, where applicable, may result in the disqualification of the bid.)

2.7.2.1 If no, furnish reasons for non-submission of such proof:

.....

.....

2.8 Did you or your spouse, or any of the company's directors / trustees / shareholders / members or their spouses conduct business with the state in the previous twelve months?

YES	NO
-----	----

2.8.1 If so, furnish particulars:

.....

.....

2.9 Do you, or any person connected with the bidder, have any relationship (family, friend, other) with a person employed by the state and who may be involved with the evaluation and or adjudication of this bid?

YES	NO
-----	----

2.9.1 If so, furnish particulars.

.....

.....

2.10 Are you, or any person connected with the bidder,

aware of any relationship (family, friend, other) between any other bidder and any person employed by the state who may be involved with the evaluation and or adjudication of this bid?

YES	NO
-----	----

2.10.1 If so, furnish particulars.

.....

.....

2.11 Do you or any of the directors / trustees / shareholders / members of the company have any interest in any other related companies whether or not they are bidding for this contract?

YES	NO
-----	----

2.11.1 If so, furnish particulars:

.....

.....

3 Full details of directors / trustees / members / shareholders.

Full Name	Identity Number	Personal Income Tax Reference Number	State Employee Number / Peral Number

4 DECLARATION

I, THE UNDERSIGNED (NAME).....

CERTIFY THAT THE INFORMATION FURNISHED IN PARAGRAPHS 2 and 3 ABOVE IS CORRECT.

I ACCEPT THAT THE STATE MAY REJECT THE BID OR ACT AGAINST ME SHOULD THIS DECLARATION PROVE TO BE FALSE.

.....
Name of bidder

.....
Position

.....
Signature

.....
Date

CERTIFICATE OF INDEPENDENT BID DETERMINATION

- 1 This Standard Bidding Document (SBD) must form part of all bids¹ invited.
- 2 Section 4 (1) (b) (iii) of the Competition Act No. 89 of 1998, as amended, prohibits an agreement between, or concerted practice by, firms, or a decision by an association of firms, if it is between parties in a horizontal relationship and if it involves collusive bidding (or bid rigging).² Collusive bidding is a *per se* prohibition meaning that it cannot be justified under any grounds.
- 3 Treasury Regulation 16A9 prescribes that accounting officers and accounting authorities must take all reasonable steps to prevent abuse of the supply chain management system and authorizes accounting officers and accounting authorities to:
 - a. disregard the bid of any bidder if that bidder, or any of its directors have abused the institution's supply chain management system and or committed fraud or any other improper conduct in relation to such system.
 - b. cancel a contract awarded to a supplier of goods and services if the supplier committed any corrupt or fraudulent act during the bidding process or the execution of that contract.
- 4 This SBD serves as a certificate of declaration that would be used by institutions to ensure that, when bids are considered, reasonable steps are taken to prevent any form of bid-rigging.
- 5 In order to give effect to the above, the attached Certificate of Bid Determination (SBD 9) must be completed and submitted with the bid:

¹ **Includes price quotations, advertised competitive bids, limited bids and proposals.**

² **Bid rigging (or collusive bidding) occurs when businesses, that would otherwise be expected to compete, secretly conspire to raise prices or lower the quality of goods and / or services for purchasers who wish to acquire goods and / or services through a bidding process. Bid rigging is, therefore, an agreement between competitors not to compete.**

CERTIFICATE OF INDEPENDENT BID DETERMINATION

I, the undersigned, in submitting the accompanying bid:

(Bid Number and Description)

in response to the invitation for the bid made by:

(Name of Institution)

do hereby make the following statements that I certify to be true and complete in every respect:

I certify, on behalf of _____ that:

(Name of Bidder)

1. I have read and I understand the contents of this Certificate;
2. I understand that the accompanying bid will be disqualified if this Certificate is found not to be true and complete in every respect;
3. I am authorized by the bidder to sign this Certificate, and to submit the accompanying bid, on behalf of the bidder;
4. Each person whose signature appears on the accompanying bid has been authorized by the bidder to determine the terms of, and to sign the bid, on behalf of the bidder;
5. For the purposes of this Certificate and the accompanying bid, I understand that the word "competitor" shall include any individual or organization, other than the bidder, whether or not affiliated with the bidder, who:
 - (a) has been requested to submit a bid in response to this bid invitation;
 - (b) could potentially submit a bid in response to this bid invitation, based on their qualifications, abilities or experience; and
 - (c) provides the same goods and services as the bidder and/or is in the same line of business as the bidder
6. The bidder has arrived at the accompanying bid independently from, and without consultation, communication, agreement or arrangement with any competitor. However communication between partners in a joint venture or consortium³ will not be construed as collusive bidding.

7. In particular, without limiting the generality of paragraphs 6 above, there has been no consultation, communication, agreement or arrangement with any competitor regarding:
- (a) prices;
 - (b) geographical area where product or service will be rendered (market allocation)
 - (c) methods, factors or formulas used to calculate prices;
 - (d) the intention or decision to submit or not to submit, a bid;
 - (e) the submission of a bid which does not meet the specifications and conditions of the bid; or
 - (f) bidding with the intention not to win the bid.
8. In addition, there have been no consultations, communications, agreements or arrangements with any competitor regarding the quality, quantity, specifications and conditions or delivery particulars of the products or services to which this bid invitation relates.
9. The terms of the accompanying bid have not been, and will not be, disclosed by the bidder, directly or indirectly, to any competitor, prior to the date and time of the official bid opening or of the awarding of the contract.
10. I am aware that, in addition and without prejudice to any other remedy provided to combat any restrictive practices related to bids and contracts, bids that are suspicious will be reported to the Competition Commission for investigation and possible imposition of administrative penalties in terms of section 59 of the Competition Act No 89 of 1998 and or may be reported to the National Prosecuting Authority (NPA) for criminal investigation and or may be restricted from conducting business with the public sector for a period not exceeding ten (10) years in terms of the Prevention and Combating of Corrupt Activities Act No 12 of 2004 or any other applicable legislation.

.....
Signature

.....
Date

.....
Position

.....
Name of Bidder

OFFICIAL BRIEFING SESSION/SITE INSPECTION CERTIFICATE

N. B.: THIS FORM IS ONLY TO BE INCLUDED AND COMPLETED WHEN APPLICABLE TO THE BID.

Site/building/institution involved:

.....

Bid No:

Service:

THIS IS TO CERTIFY THAT (NAME):

ON BEHALF OF:

VISITED AND INSPECTED THE SITE ON..... (DATE)

AND IS THEREFORE FAMILIAR WITH THE CIRCUMSTANCES AND THE SCOPE OF THE SERVICE TO BE RENDERED.

.....
SIGNATURE OF BIDDER OR AUTHORISED REPRESENTATIVE
(PRINT NAME)

DATE:

.....
SIGNATURE OF DEPARTMENTAL REPRESENTATIVE
(PRINT NAME)

.....
DEPARTMENTAL STAMP:
(OPTIONAL)

DATE:

**APPOINTMENT OF A SERVICE PROVIDER FOR THE
REFURBISHMENT OF CATTLE HANDLING FACILITIES AT
CEDARA STUDENT FARM ON CEDARA**

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B | SPECIAL CONDITIONS

1. BASIS OF QUANTITIES

- 1.1 The Scope of Works, and Technical Specifications governing the works are as per Sections C (Standard Technical Specifications), Section D (Detailed scope of works & technical specifications) and the 6 drawings included under Annexure B (Drawings), whereas Section E provides the Bill of Quantities).

2. COMPETENCY OF THE SERVICE PROVIDER

- 2.1. This quote is open for contractors with a Construction Industry Development Board (CIDB) data base grading of **minimum 2 GB**. The contractor is to submit evidence of his/her OWN Active registration.

3. COMPULSORY SITE BRIEFING

- 3.1 A compulsory site-briefing meeting will be held with prospective Service Providers. Attendance at the meeting will be compulsory and non-attendance shall invalidate the quote. The date and time of the meeting will be published in the Bid Advertisement or, in the case of a quote, be communicated when the prospective service provider is invited to quote.

4. INVOICES

- 4.1 All invoices submitted by the Contractor must be Tax Invoices indicating for what part of the scope of works payment is claimed.
- 4.2 A tax invoice shall be in the currency of the Republic of South Africa and shall contain the following particulars:
- 4.2.1. The name, address and registration number of the supplier;
 - 4.2.2. The name and address of the recipient;
 - 4.2.3. An individual serialized number and the date upon which the tax invoice is issued;
 - 4.2.4. A description of the goods or services supplied;
 - 4.2.5. The quantity or volume of the goods or services supplied;

5. IRREGULARITIES

- 5.1 Companies are encouraged to advise the Department timeously of any possible irregularities which might come to their notice in connection with this or other contracts.

6. PAYMENT FOR SUPPLIES AND SERVICES

- 6.1 A contractor shall be paid by the Department in accordance with supplies delivered and services rendered.
- 6.2 Any query concerning the non-payment of accounts must be directed to the Department. The following protocol shall apply if accounts are queried:
- 6.2.1 Contact must be made with the officer-in-charge of the District Office;
 - 6.2.2 If there is no response from the District Office, the Director: Finance must be contacted;
- 6.3 Information as contained on the Central Suppliers Database must be valid/correct. Non-compliance with Tax Requirements shall affect payment.

13. UNSATISFACTORY PERFORMANCE

- 13.1. Unsatisfactory performance occurs when performance is not in accordance with the contract conditions.
- 13.2. The Departmental official monitoring the implementation shall first warn the contractor verbally about his/her underperformance in terms of completion rate, quality of the work or quality or specifications of materials as part of a site instruction. After that, in the absence of sufficient improvements, the contractor shall be warned in writing that action shall be taken in accordance with the contract conditions unless the contractor complies with the contract conditions and delivers satisfactory supplies or services within a specified reasonable time (7 days minimum).
- 13.3. If the Contractor fails to commence the Works or to proceed with and complete the Works in compliance with the projected timeframes, the Head of Department or his/her representative shall take action in terms of its his/her delegated powers and adopt and exercise one of the following courses wholly or partly, viz: -
- 13.3.1. To direct the Contractor, in writing, on any day named therein to suspend and discontinue the execution of the Works, and to withdraw himself and his workmen from the said Site or Sites,
 - 13.3.2. To make a recommendation to the Accounting Officer for cancellation of the contract concerned.
 - 13.3.3. To Contract or Contracts by calling for Bids or otherwise with any other Contractor or Contractors for the completion of the Works, or any part thereof, at such times and upon such terms as to the Department shall deem best.
- 13.4. In relation to the foregoing provisions the Department shall charge any sums of money which may be paid by the Department for completing the said Contract against the Contractor and if such amount shall exceed this Contract, then the Department shall have the right to recover such excess or any balance thereof from the Contractor by legal proceedings.
- 13.5. When correspondence is addressed to the contractor, reference shall be made to the contract number/ item number/s and an explanation of the complaint.

14. VALIDITY PERIOD OF QUOTE

- 14.1 The validity (binding) period for the quote shall be **90 days** from the deadline for the submission of quotes. However, circumstances may arise whereby the Department needs to extend the validity period. Should this occur, the Department shall formally request those who submitted quotes service providers to extend the validity (binding) period under the same terms and conditions as originally offered for by service providers. This request shall be done before the expiry of the original validity (binding) period.

15. VALUE ADDED TAX (VAT)

- 15.1 Quotes must be inclusive of 15% VAT.
- 15.2 Service providers who make taxable supplies in excess of R1 million in any 12-month consecutive period are liable for compulsory VAT registration, but a person may also choose to register voluntarily provided that the minimum threshold of R50 000 (as of 1 March 2010) has been exceeded in the past 12-month period. Service providers who meet the above requirement must register as VAT vendors, if successful, within one month of award of the bid.
- 15.3 For the purpose of calculating preference points, VAT shall not be considered during the quotation process.

16. SERVICE LEVEL AGREEMENT

- 16.1 The successful Service provider and the Department will sign a Service Level Agreement prior

22. LABOUR SOURCE & CAPACITY

- 22.1. The Contractor will be required to satisfy the Department that a sufficient and experienced labor force is employed or that sufficient experienced labour can be acquired to complete the services and produce an acceptable quality of workmanship.
- 22.2. The contractor is encouraged to source unskilled labour from the area around Dundee Research Station. The Contractor and the Departmental representative (Engineer or local Agricultural adviser) may negotiate with the participants in this regard to establish all the conditions for the utilization of the local labour.
- 22.3. The Contractor will be responsible for all hiring, payment, housing and transport of all labour used for the duration of the contract.

23. SECURITY & RISK

- 23.1. No one shall be allowed on the construction site after normal working hours except for the necessary security personnel.
- 23.2. The Contractor shall also be responsible for safeguarding all plants, machinery, equipment and materials on site. The Engineer shall not be responsible for any lost, damaged or stolen property or materials. Should any of these situations arise, no allocations will be made in terms of finances or time.

24. MATERIALS: DELIVERY, ON & OFF-LOADING, STORAGE & RESPONSIBILITY

- 24.1. The Contractor shall be responsible for the safe delivery, loading, off-loading, handling and storage of any equipment and materials on site.
- 24.2. All equipment, materials and plant stored on site must be suitably protected against damage or loss by theft or otherwise.
- 24.3. The Contractor shall remain fully responsible for all material and plant, etc. until the completed works are handed over and have been officially accepted by the Department.

25. EXISTING ROADS, MUNICIPAL PAVEMENTS, ETC.

- 25.1. The Contractor is advised that he will be held responsible for any damage to the existing paving, roads, municipal pavements, fences, boundary walls, etc., and will have to repair such damage at his expense.

26. DAMAGE TO PROPERTY

- 26.1. If the Contractor or his/her employees, while engaged in the execution of the contract, shall break, deface, injure, destroy or allow to fall into disrepair any part of the Works or property belonging to the Department, or any private property including: buildings, paving, roads, fences, walls or grounds contiguous to the premises of the Department on which he or they may be employed, the Contractor will be required to repair, in a perfect and workmanlike manner, at own expense all damage to the approval of the Department. The Completion Certificate will not be issued until the Department is satisfied that all necessary remedial work has been satisfactorily completed
- 26.2. The Contractor shall take every precaution against damage or nuisance being caused by dust , both to the properties of the Employer and all surrounding properties and shall indemnify the Employer against any claim that might arise there from.

27. UNDERGROUND CABLES AND PIPES

- 27.1. If such services are discovered, immediate notification must be made to the Employer and all work in the vicinity of such cables, pipes, etc., shall cease until safe to proceed.

35. DISAGREEMENTS

- 35.1. Notice of disagreement. The Contractor has the right by written notice to the Engineer to require him to consider any disagreement which he raises with the Engineer provided the said written notice shall be given within 14 days after the cause of disagreement has arisen.
- 35.2. Ruling on disagreements. The Engineer shall give a ruling on the disagreement in writing to the Contractor no later than 14 days after his receipt of a written request from the Contractor requiring him to do so. The Engineer shall provide such a ruling with as little delay as possible. During the response time the Contractor shall not alter the status of the works under contention.

36. FIXED PRICE CONTRACT

- 36.1. The contract shall **not** be subject to contract price adjustment.

37. PRICING - COMPLETENESS OF BID

- 37.1. Service providers are required to submit quotes for all services, works and materials as specified in the pricing schedule. This includes those additional items that are not listed in the original pricing schedule but may be pointed out as required at the bid briefing. If he/she does not bid on all items, his/her bid will be rejected.
- 37.2. All quoted prices for separate items are to be in South African currency and must **exclude** VAT.
- 37.3. All items as described in the project specification are to be priced in full.
- 37.4. Transport/Delivery costs must be included in the pricing if the Pricing Schedule does not list them separately.
- 37.5. VAT must be filled in as the Sub total followed by the complete price for the entire project.
- 37.6. The quote page must be signed by a person legally authorized to do so.

38. QUANTITIES OF WORK

- 38.1. The Contractor shall receive payment only for the works actually executed and approved by the Engineer.

39. PROGRESS PAYMENTS

- 39.1. Payment shall only be made for claims that are commensurate with the works actually executed and complete.
- 39.2. Payment will only be made against the construction progress as pertaining to **built /installed** items. Movable items and materials on site are generally excluded from progress payments until they have been fully installed or fitted or built up.
- 39.3. If any item or part of an item in an invoice is disputed by the Engineer, the Engineer shall give notice of such with reasons.
- 39.4. The Engineer may elect to use a payment schedule that apportions a weighting for the various work phases, in those cases where the actual pricing schedule is not available or lacks balance.
- 39.5. The contractor shall be paid in up to a maximum of **five (5) part payments**. The Contractor is strongly advised to request five payments when being notified by SCM of him/her being awarded the contract.
- 39.6. Part payments will be made after the Engineer has approved the work and will be made in accordance with the Retention clause (41).
- 39.7. The penultimate payment occurs after practical works completion. The final payment will be made after expiry of the 6 months guarantee/liability period.

Department to extend the date of completion, stating the cause of delay and period of extension applied for.

- 44.3. The Department upon receipt of such written application may by order in writing extend such date of completion by a period to be determined, or may refuse to extend such date of completion, or may postpone giving a decision upon such application until completion of the Contract period set out in sub-clause (a) of this clause.
- 44.4. The date of completion will be extended only to the extent approved by the Department.
- 44.5. Should the Contractor fail to apply in writing for an extension within the time set out above, or should the Department refuse to grant any extension in writing, then the Contract period provided shall not be exceeded.
- 44.6. When the Works are completed the Department will give a completion certificate and the date of such certificate shall be the date of commencement of the guarantee period.

45. PENALTY CLAUSE / FINES FOR LATE OR NON-COMPLETION

- 45.1. If the contractor does not complete the work within the time stipulated and no extenuating circumstances can be given for the delay, the Department may impose a fine as detailed below. The total will be subtracted from the retention allowance.
- 45.2. If the contractor fails to complete the works and the Department is forced to employ another contractor to complete the works, the defaulting contractor will be held liable for the costs as far they exceed the original total Bid value.
- 45.3. The department will deduct a penalty for late completion of up to **0.05% of the contract value per working day delay**. This will be deducted from the retention.

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13	GLAZING	31
14	PAINTING	31

5. MATERIALS AND CONSTRUCTION

- 5.1. All materials must be newly purchased and conform to SABS specifications for the products. This includes all items such as bricks, blocks, brick reinforcement, damp proofing, lintels, glazing, plumbing and drainage, curtains, etc. All construction works must conform to the applicable standard specifications and installation requirements as per NBR requirements and manufacturers recommendations. All concrete works to conform to CNCI standards and recommendations

6. STANDARD CONCRETE MIXES

- 6.1. Cement and aggregates shall be mixed by volume and the contents of a 50kg sack of cement shall be taken to be 0,033m³.
- 6.2. Water addition should be kept to a minimum. Only sufficient water should be used to produce a workable mix of 60-100mm slump. A recommended maximum water : cement ratio is 1 for a 10MPa; 0.8 for a 15MPa; 0.65 for a 20MPa; 0.59 for a 25MPa; 0.53 for a 30MPa mix, however the lower the ratio the better the durability of the concrete. Approximately 210 litres per m³ of concrete is required for an average quality sand and optimum quantity 19mm stone.
- 6.3. Concrete for non-structural purposes shall be "Prescribed mix concrete" produced in accordance with the requirements indicated in Table 1.

Class of Concrete	Min. Compressive Strength in MPA at 28 Days	Max. Nominal Size of Coarse Aggregate in mm	Proportion of Constituents >> 1 Wheelbarrow = 2 bags of cement		
			Cement (Parts)	Sand (Parts)	Stone (Parts)
A	10	37,5	1	4	5
B	15	19,0	1	3	4
C	20	19,0	1	2.5	3.5
D	25	19,0	1	2	3
E	30	19,0	1	2	2½

7. STANDARD PLASTER & MORTAR MIXES

- 7.1. The standard plaster mixes are as listed in Table 2:

PLASTER CLASS:	MIX RATIO: (By Volume)	MASONRY CEMENT: kg	LIME: L	SAND: (loose and damp) L (max)
Rich mix (foundations, wet areas)	1 : 4	50	0-10	130
General purpose	1 : 5	50	0-40	165

1. DETAILED SCOPE OF WORK

1.1. Removal of neck clamp and all wooden posts that form the pens, crush & roof.

- 1.1.1. Removal proper of the gates, neck clamp, posts and laterals
- 1.1.2. Disposal/storage of the gates, neck clamp & wood at a site in consultation with the College.

1.2. Digging of the holes for the new posts.

- 1.2.1. 500mm x 500mm x 700mm holes for the crush area
- 1.2.2. 350mm >150mm x 350 x 150mm for the pens
- 1.2.3. Setting out of the holes according to the distances indicated on the the drawings. Pole positions may differ from the existing ones.
- 1.2.4. Closing and compacting of old holes that will not be used.

1.3. Erection of the new pen fencing

- 1.3.1. Supply of materials
- 1.3.2. Placement of poles in holes.
- 1.3.3. Mixing of soil with cement and filling and compaction of the holes
- 1.3.4. Drilling of holes and cutting of rebar in pieces of 350mm.
- 1.3.5. Attachment of the laterals to the posts by hammering 350mm pieces of rebar into posts and flattening of the end pieces on both sides
- 1.3.6. Installation of the gates

1.4. Installation of the crush roof cover

- 1.4.1. Supply of materials
- 1.4.2. Drilling of 7mm holes at 300 and 500mm from the bottom and hammering in of the two anchor bars.
- 1.4.3. Preparation and placement of shutterply.
- 1.4.4. Placement of posts in holes
- 1.4.5. Mixing an placement of the cement
- 1.4.6. After 7 days: attach laterals to posts with rebar pieces.
- 1.4.7. After 14 days: supply and installation of roof structure (rafters and purlins) as per supplied drawing. Use hurricane clips for each rafter/purlin connection.
- 1.4.8. Supply & installation of chromadeck roofsheets
- 1.4.9. Supply and installation of new neck clamp

1.5. Installation of a concrete slab

- 1.5.1. Clearing & leveling of a 4.5m x 3.9m area in front of the neck clamp
- 1.5.2. Installation of formwork
- 1.5.3. Placement of Ref 200 mesh
- 1.5.4. Casting of the concrete slab.

- 2.3.5. Horizontal poles/rails to be secured with 350mm pieces of 8mm rebar predrilled with 7mm bits.
- 2.3.6. Rebar to be installed as in the Figure 1 below.

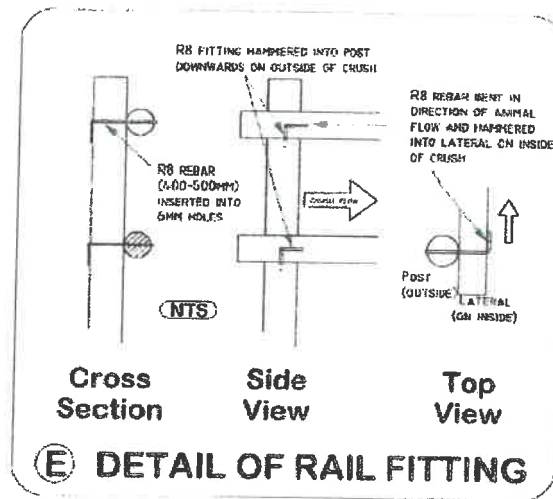


Figure 1: Securing the horizontal rails to the posts with 8mm rebar.

- 2.3.7. All gate posts to have concrete bases 500 x 500 x 700mm
- 2.3.8. Horizontal poles to be secured onto the posts in a staggered manner. Red lines are 8mm rebar bent horizontally on inside of pens.

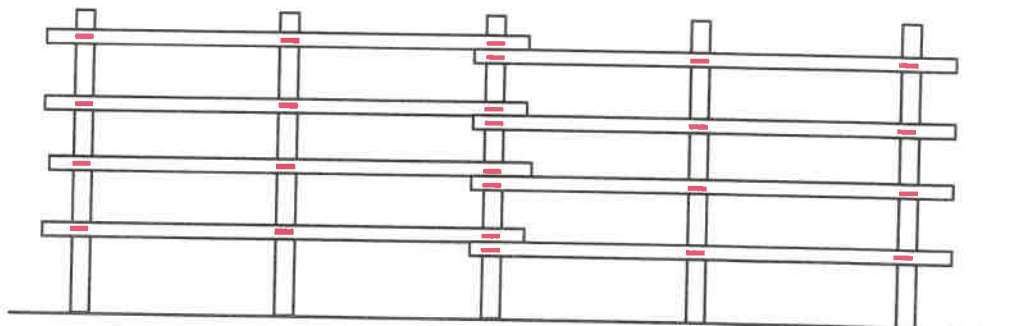
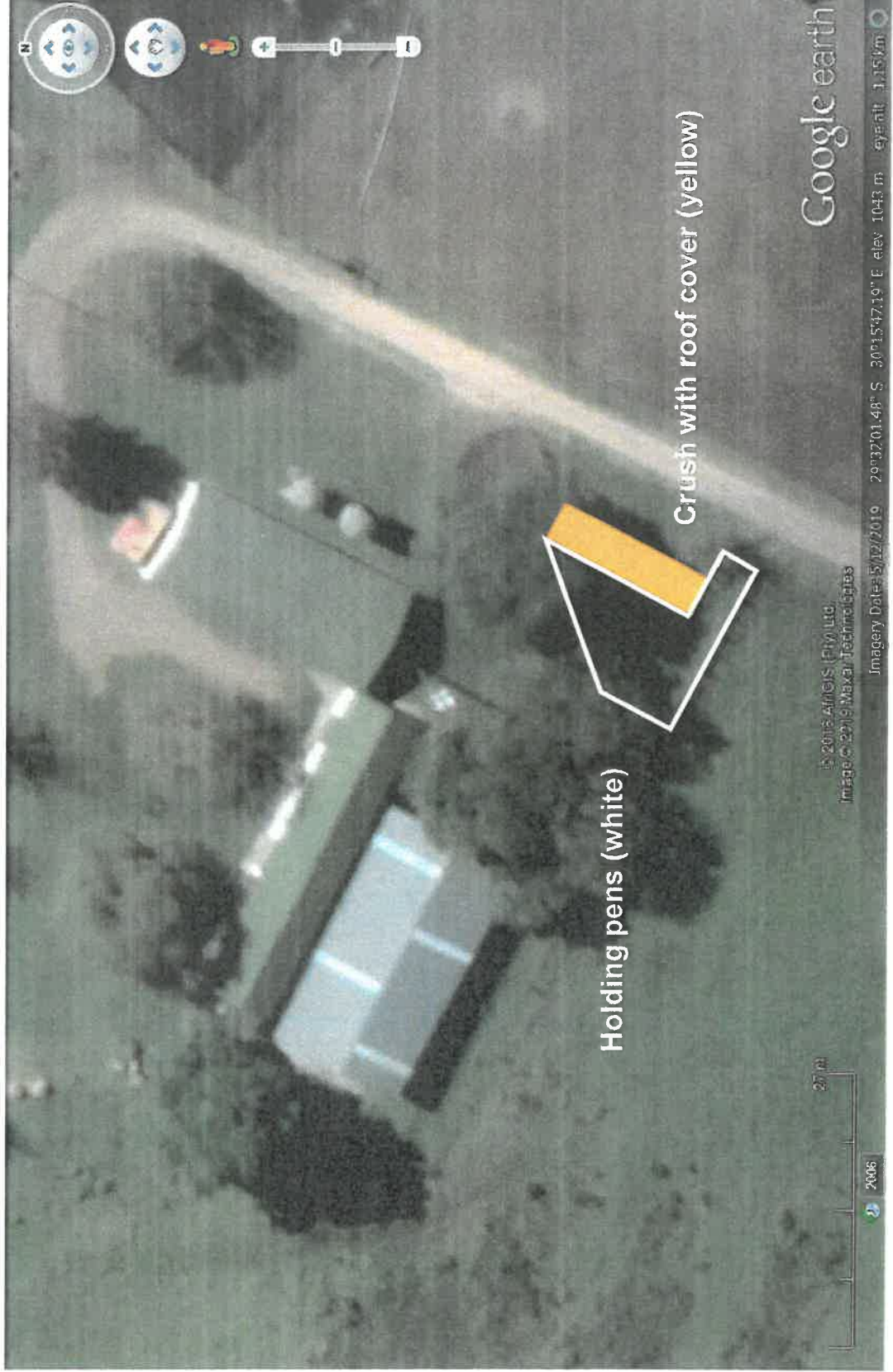


Figure 2: Position of the rails secured against the posts in a staggered way.

BILL OF QUANTITIES FOR THE REFURBISHMENT OF THE HOLDING PENS & ERECTION OF ROOF COVER FOR THE CATTLE CRUSH PAGE 1					
		Unit	Qty	Rate	Amount
1	Preliminary & General	Sum	1		
2	Site establishment	Sum	1		
3	Dismantling & removal of old facilities.	Sum	1		
3.1	Storage/Disposal of poles , gates and neck clamp to an agreed upon location.				
4	Building Materials (Crush)				
4.1	Poles (CCA - treated, SABS approved)				
4.1.1	4.2m x 100-125mm (Rafter poles, support beams, laterals, guardrail)	No.	36		
4.1.2	3.6m x 100-125mm (Stand posts high side)	No.	9		
4.1.3	3.0m x 100-125mm (Stand posts low side)	No.	9		
4.1.4	2.4m x 100/125mm (Neck clamp posts)	No.	4		
4.1.5	1.50m x 100/125mm (Neck clamp front fences)	No.	8		
4.1.6	8mm rebar 101 pieces @ 350mm (anchors + laterals)	m	35		
4.2	Roofsheets				
4.2.1	Chromadek IBR 686 profile roofsheets 0.5mm (green) 4.50m long	No.	19		
4.2.2	Polycarbonate Opal 50 IBR 686 roofsheets 1.3mm thick 4.5m long	No.	5		
4.2.2	Hurricane clips (galv.)	No.	45		
4.2.3	Galvanised Steel Clout Nails (40 x 3mm) for hurricane clips	kg	1		
4.2.4	Roof nails galvanised 4.5mm x 65mm, with washers & seal	No.	360		
4.2.5	Threaded bars (galvanised, 15mm), 36x @ 300mm each	m	12		
4.2.6	Nuts and washers (30mm) for threaded bars	No.	100		
4.3	Concrete footings & Concrete slab in working area				
	15 MPa/13mm concrete footings. 20 x 0.175m ³ /hole = 3.6m ³				
	25 Mpa/19mm slab with Ref 200. 4.50m x 3.90m x 100mm. = 1.8m ³				
4.3.1	NPC pockets of cement	No.	33		
4.3.2	Umgeni sand	m ³	2,7		
4.3.3	19mm stone	m ³	1,8		
4.3.4	13mm stone	m ³	2,1		
4.3.5	Supply & installation of shutterply 20mm formwork @ 1.4m/hole; & shutterply for slab (17m x 500mm) for slab	Sum	1		
SUB-TOTAL PAGE 1 - CARRY FORWARD TO PAGE 2 >> R					



Refurbishment of Cedara Student farm Cattle crush – July 2019

LIST OF DRAWINGS

PAGE	DRAWING REF.	DRAWING TITLE
24	CAT/RDN/2019/023	DRAWING 1 ROOF COVER CATTLE CRUSH CEDARA – PLAN & ROOF STRUCTURE
25	CAT/RDN/2019/024	DRAWING 2 ROOF COVER CATTLE CRUSH CEDARA – ELEVATIONS
26	CAT/RDN/2019/025	DRAWING 3 ROOF COVER CATTLE CRUSH CEDARA – SECTION A - A
27	CAT/RDN/2019/026	DRAWING 4 ROOF COVER CATTLE CRUSH CEDARA – SECTION B – B INSPECTION AREA
28	CAT/RDN/2019/032	DRAWING 5 HOLDING PENS FOR CATTLE CRUSH CEDARA
29	CAT/RDN/2019/033	DRAWING 6 CATTLE CRUSH CEDARA – SLAB & ROOFING DETAILS

LENGTH A: 27.30M
 POSTS: 15 X 2.4M POLES @ 1.95M CTC
 LATERALS: 7 X 4 X 4, X 4, 20M

27.30M

1950

ALL GATE POSTS TO HAVE 15 MPa/13MM CONCRETE FOOTING

3.00M X 1.20M GATE

LENGTH G: 2.00M CTC
 POSTS: 1 X 2.4M POLES @ 2.00M CTC
 LATERALS: 1 X 4 X 2.10M

1900

LENGTH C: 6.00M
 POSTS: 3 X 2.4M POLES @ 85M CTC
 LATERALS: 4 X 6.00M

1650

LENGTH D: 6.80M
 POSTS: 4 X 2.4M POLES @ 2.00M CTC
 LATERALS: 2 X 4 X 4, 20M

18.30M

LENGTH B: 18.30M
 POSTS: 11 X 2.4M POLES @ 1.90M CTC
 LATERALS: 3 X 4 X 1.50M

19.00M

LENGTH E: 19.00M
 POSTS: 11 X 2.4M POLES @ 1.90M CTC
 LATERALS: 3 X 4 X 6.00M

4.80M (4.50M CTC)

4.20M (3.90M CTC)

4.20M (3.90M CTC)

3.60M (3.30M CTC)

3.60M (3.30M CTC)

3.60M (3.30M CTC)

3.60M (3.30M CTC)

3.60M (3.30M CTC)

3.60M (3.30M CTC)

3.60M (3.30M CTC)

3.60M (3.30M CTC)

3.60M (3.30M CTC)

3.60M (3.30M CTC)

3.60M (3.30M CTC)

NOTES
 1) THIS DRAWING MUST BE READ IN CONJUNCTION WITH THE FOLLOWING DRAWINGS:
 CAT/RDN/2019/23
 CAT/RDN/2019/24
 CAT/RDN/2019/25
 CAT/RDN/2019/26
 2) ALL POSTS ARE 125/150MM, 100/125MM.
 3) LATERALS TO BE ATTACHED TO POSTS WITH 8MM REBAR HOLES DRILLED INTO PREBARRLED HOLES USING DRILL BIT. SEE ALSO PROJECT SPECIFIC TECHNICAL SPECIFICATIONS.
 4) LENGTH OF BAR PER CONNECTION: 350MM, LENGTH OF BAR REBAR REQUIRED: 85M OR 14 X 6.00M LENGTHS
 5) DRILLING AND INSTALLATION OF 350MM X 8MM ANCHOR BARS AT 90 DEG. FROM THE BOTTOM OF POSTS WITH CONCRETE FOOTINGS. ONE ANCHOR BAR (350MM) PER SOLICRETE POST AT 100MM FROM BOTTOM.
 6) ALL SOLICRETE TO BE PROPERLY COMPACTED AROUND THE POLES

KZN DEPARTMENT OF AGRICULTURE & RURAL DEVELOPMENT



ENGINEERING SERVICES
 1 CEDARA ROAD | CEDARA | PETERMARITZBURG, 3200
 PHONE: 033-53228300

CHECKED FOR: KZN/DAD
 P. Erasmus
 DATE

CLIENT: CEDARA COLLEGE - STUDENT FARM

DRAWING 6
 HOLDING PENS FOR CATTLE CRUSH
 CEDARA
 PLAN & DETAIL

USE: PROCUREMENT

DRAWN	R.K. NEER	DRAWN
DATE	20/07/2019	DESIGNED
SCALE	1:10 (AS)	CHECKED
DRAWING REFERENCE	C.A.T.R.D.N.2019.23.5	

BILL OF QUANTITIES

- POSTS (ALL 125/150MM) 2.4M: 53 X
- LATERALS (ALL 100/125MM) 1.50M: 4X
- 2.10M: 16X
- 3.60M: 16X
- 4.20M: 44X
- 4.80M: 4X
- 6.00M: 28X
- CEMENT (FOR SOIL, GRETE AND GATE POST FOOTINGS (1.0M³))
- 4.0 POINTERS
- 15MM STONE: 1M³
- REBAR 8MM 17 LENGTHS OF 6M.
- STEEL GALV. GATES: 1.80M X 1.20M: 5X
- 3.60M X 1.20M: 2X
- 3.00M X 1.20M: 1X

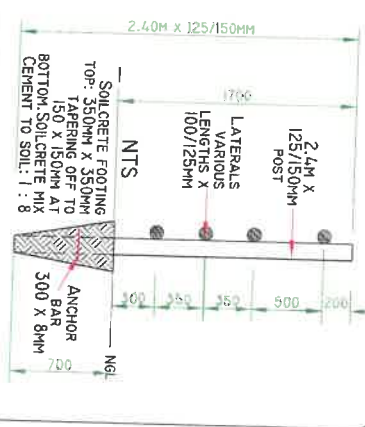
CATTLE CRUSH

LENGTH H
 THIS FENCE DOUBLES UP AS ROOF SUPPORT FOR FEED
 SEE DRAWINGS
 CAT/RDN/2019/023,
 CAT/RDN/2019/024,
 CAT/RDN/2019/025,
 CAT/RDN/2019/026.

ALL GATE POSTS TO HAVE 15 MPa/13MM CONCRETE FOOTING

PLAN

PEN POST WITH FOOTING
 SHOWING DISTANCES BETWEEN LATERALS. DISTANCES MEASURED CENTRE TO CENTRE (CTC)

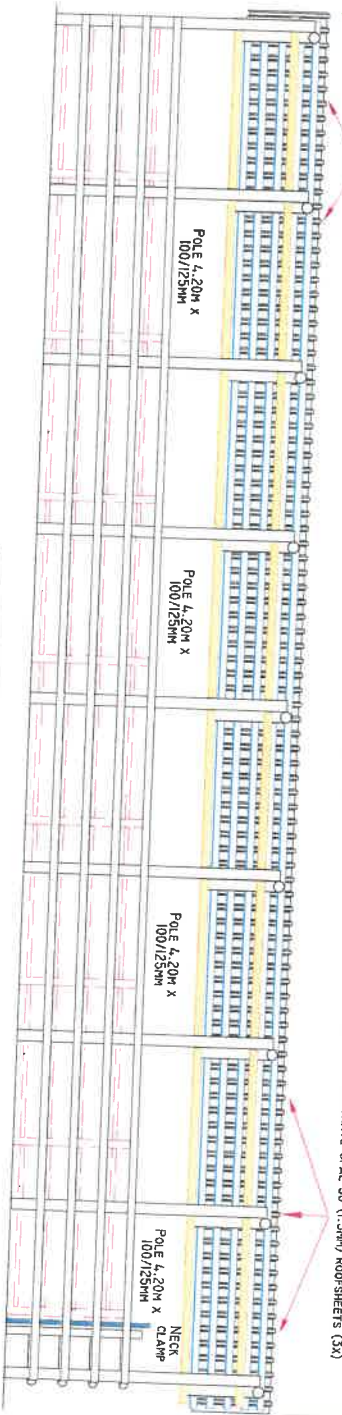


IBR POLYCARBONATE OPAL 50 (1.3MM) ROOFSHEETS (2X)

IBR CHROMADECK GREEN ROOFSHEETS

IBR POLYCARBONATE OPAL 50 (1.3MM) ROOFSHEETS (3X)

16400



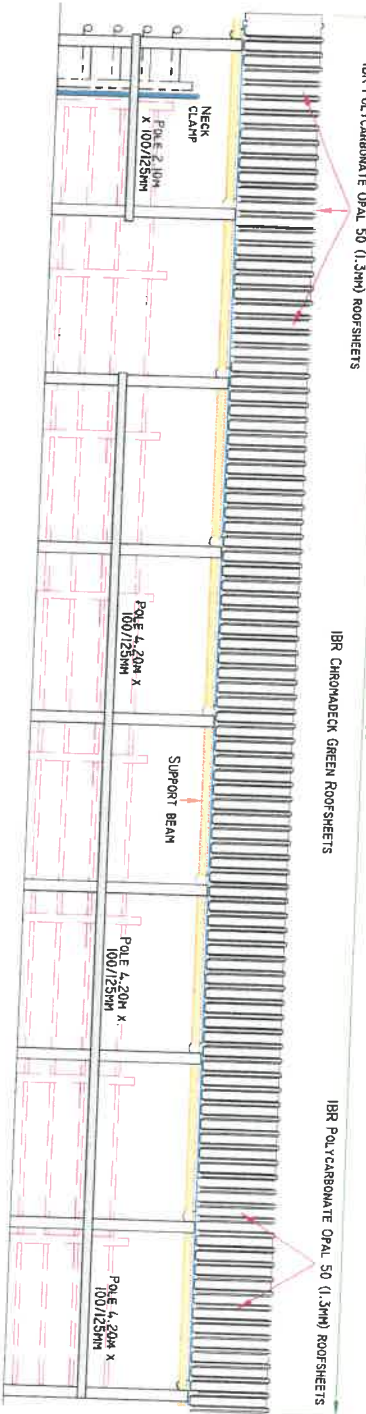
WEST ELEVATION

IBR POLYCARBONATE OPAL 50 (1.3MM) ROOFSHEETS

IBR CHROMADECK GREEN ROOFSHEETS

IBR POLYCARBONATE OPAL 50 (1.3MM) ROOFSHEETS

16400



EAST ELEVATION

NOTES
1) THIS DRAWING MUST BE READ IN CONJUNCTION WITH THE FOLLOWING DRAWINGS:
CAT/RDN/2019/23
CAT/RDN/2019/25
CAT/RDN/2019/26

KZN DEPARTMENT OF AGRICULTURE & RURAL DEVELOPMENT



ENGINEERING SERVICES

1 CEDARA ROAD | CEDARA | PRIVATE BAG X9059 | PHUMADATHURUSI, 3200
PHONE: 035-93426300

Checked for KZN/DARD

Pr. ENGINEER: DATE:

Client: CEDARA COLLEGE - STUDENT FARM

DRAWING 2

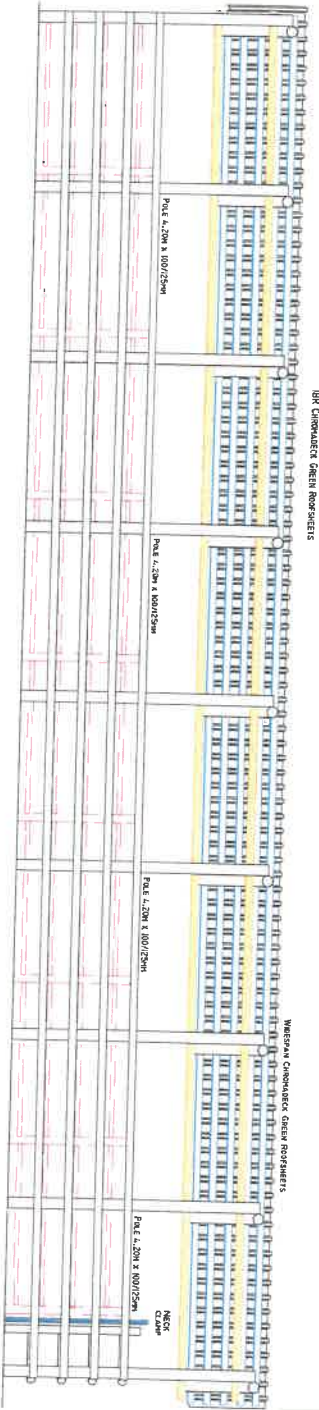
**ROOF COVER
CATTLE CRUSH
CEDARA**

ELEVATIONS

USE PROCUREMENT

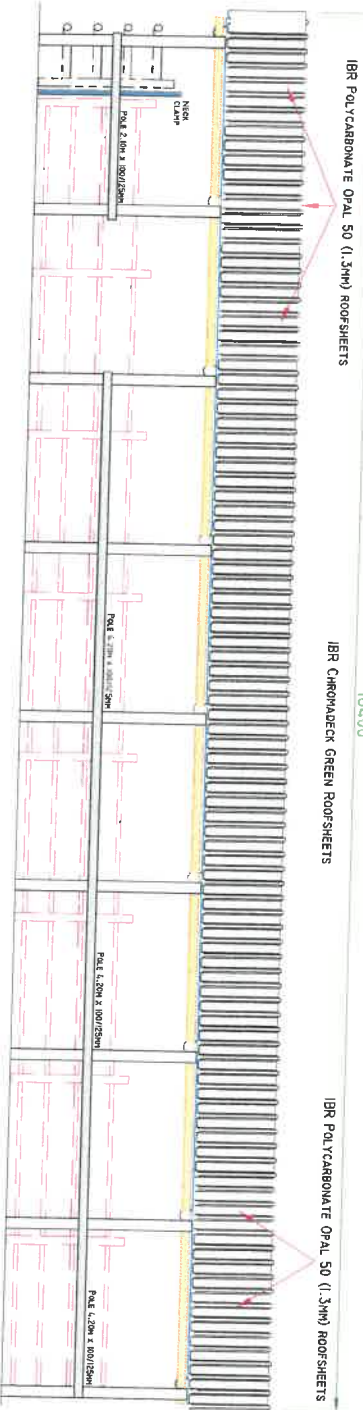
DRAWN	RUE NIEF	ENGINEER
DATE	16/09/2019	DESIGNED
SCALE	1 : 50 (A3)	CHECKED
DRAWING	CAT	INITIALS
REFERENCE	CLATRDIN2019/26	YEAR
		SECOND

16521



WEST ELEVATION

16400



EAST ELEVATION

NOTES

1) THIS DRAWING MUST BE READ IN CONJUNCTION WITH THE FOLLOWING DRAWINGS:

CAT/RDN/2019/23
 CAT/RDN/2019/25
 CAT/RDN/2019/26

KZN DEPARTMENT OF AGRICULTURE & RURAL DEVELOPMENT



ENGINEERING SERVICES

1 CEDARA ROAD | CEDARA |
 PETERMARITZBURG 3200
 PHONE: 033-35226500

Checked for KZNABD

For Signature: _____ DATE: _____

Client: CEDARA COLLEGE - STUDENT FARM

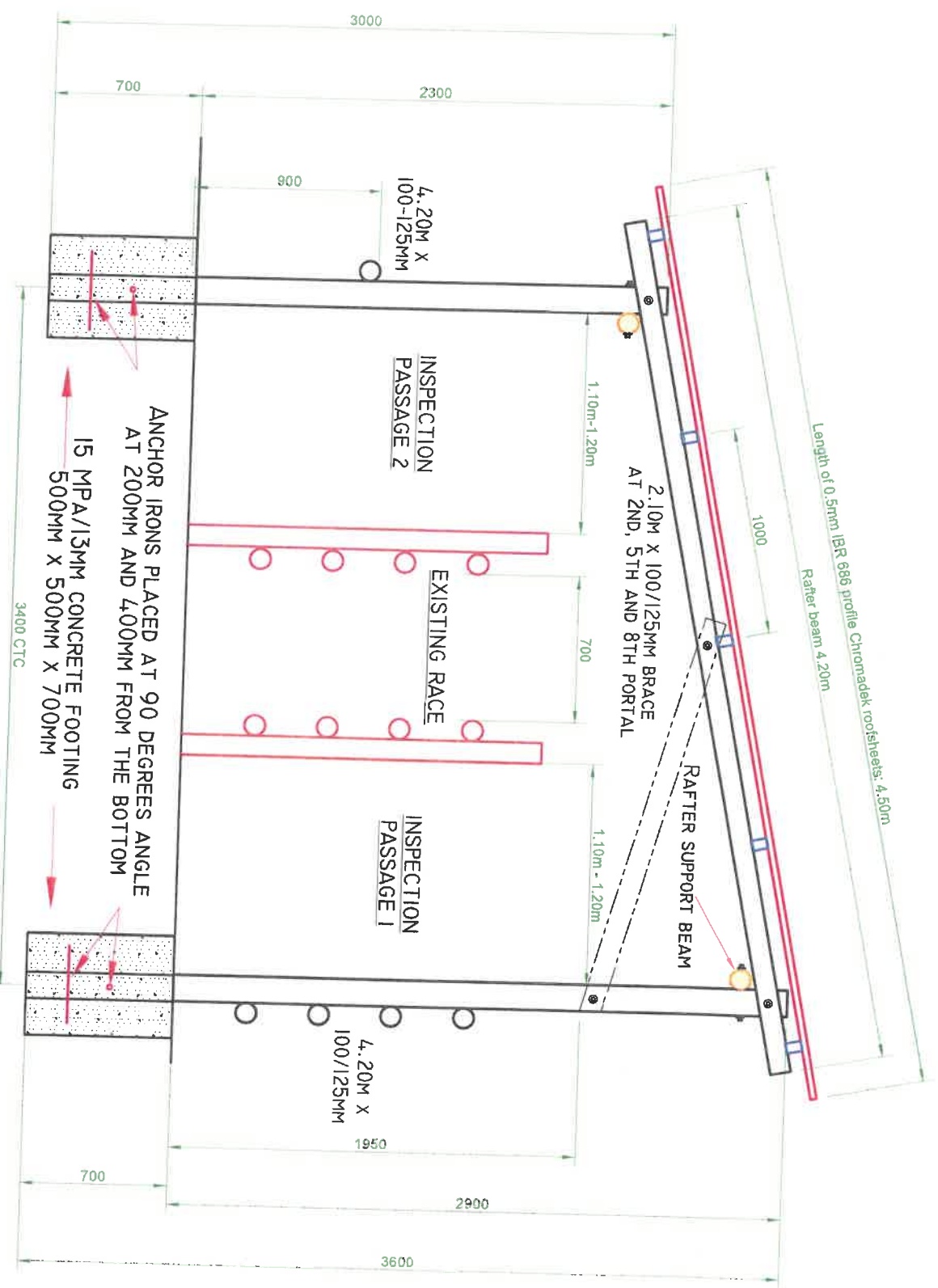
DRAWING 2

ROOF COVER CATTLE CRUSH CEDARA

PLAN & ROOF STRUCTURE

USE: PROCUREMENT

DRAWN	R DE NEER	SAWENBO
DATE	16/06/2019	DESIGNED
SCALE	1:50 (AS)	CHECKED
DRAWING REFERENCE	CAT/RDN/2019/23	YEAR
		SEMESTER



SECTION A - A

NOTES
 1) THIS DRAWING MUST BE READ IN CONJUNCTION WITH THE FOLLOWING DRAWINGS:
 CAT/RDN/2019/23
 CAT/RDN/2019/24
 CAT/RDN/2019/26

KZN DEPARTMENT OF AGRICULTURE & RURAL DEVELOPMENT



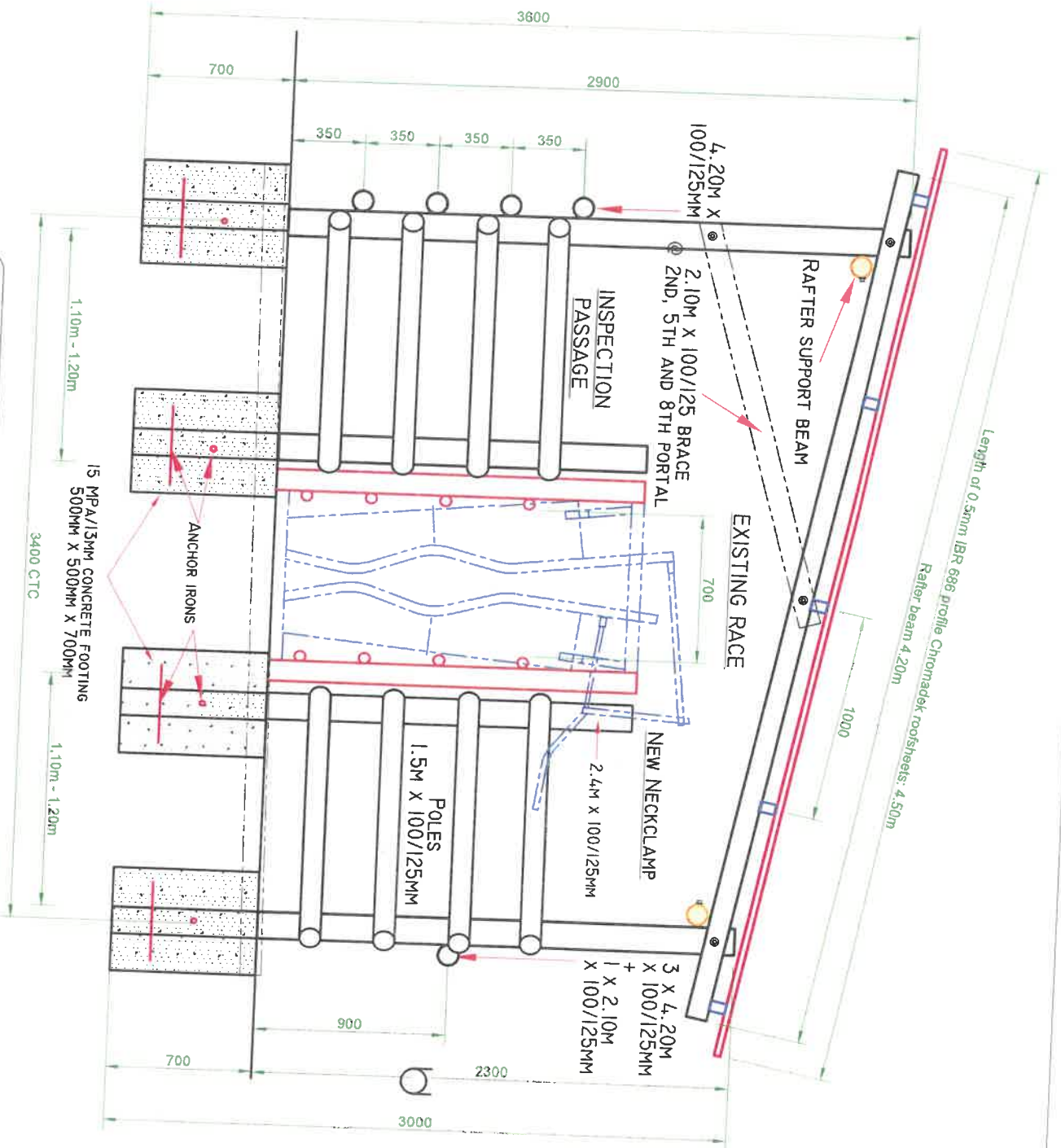
ENGINEERING SERVICES
 1 CEDARA ROAD | CEDARA |
 PIETROBURGH 6001
 Phone: 033-35226300

Checked for KZN/DAD
 Pn. NUMBER: DATE:
 CLIENT:

**DRAWING 3
 ROOF
 COVER
 CATTLE
 CRUSH
 CEDARA**
 SECTION A - A

USE: PROCUREMENT

DRAWN	RJC NEER	ISSUED
DATE	16/06/2019	DESIGN
SCALE	1 : 20 (AS)	CHECKED
DRAWING	INT.	YEAR
REFERENCE	CAT/RDN/2019/25	SECTION



FRONT ELEVATION/ SECTION B - B

NOTES
 1) THIS DRAWING MUST BE READ IN CONJUNCTION WITH THE FOLLOWING DRAWINGS:
 CAT/RDN/2019/23
 CAT/RDN/2019/24
 CAT/RDN/2019/25

KZN DEPARTMENT OF AGRICULTURE & RURAL DEVELOPMENT



ENGINEERING SERVICES

1 CEDARA ROAD | CEDARA | PETENBURG 3120
 PHONE: 033-5328300

Checked by: K. ZWABO
 Pn. Engineer: _____ DATE: _____

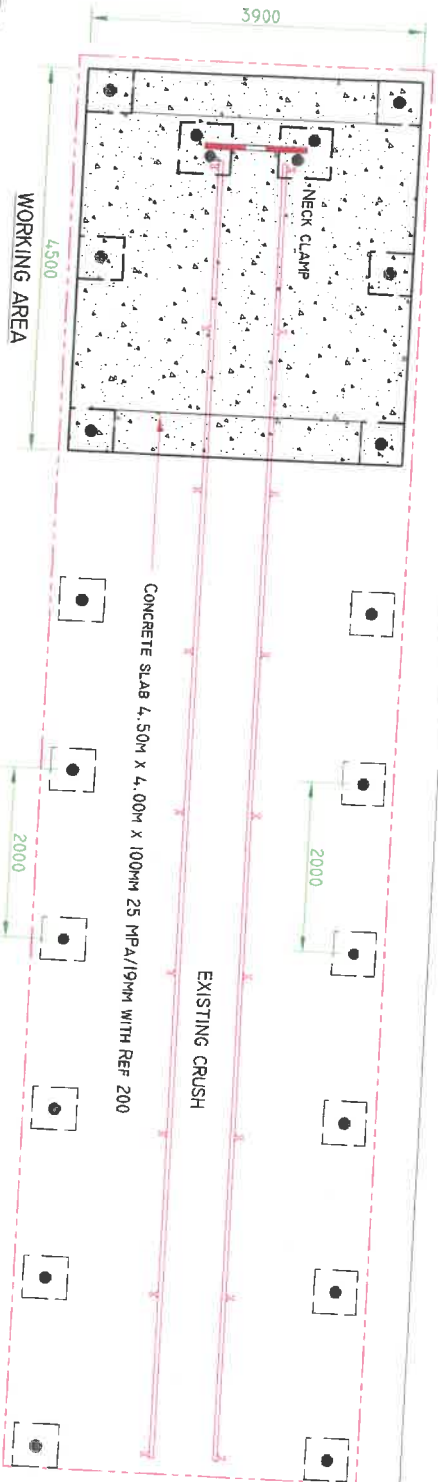
Client: CEDARA COLLEGE - STUDENT FARM

DRAWING 4
ROOF COVER CATTLE CRUSH CEDARA

SECTION B - B
INSPECTION SECTION

USE: PROCUREMENT

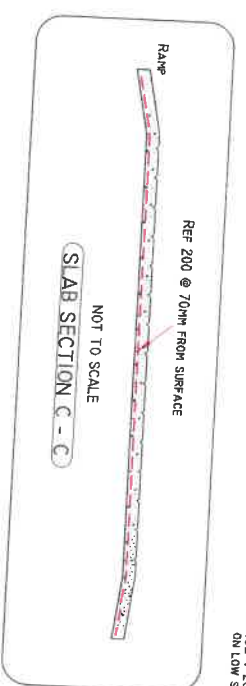
DRAWN	R. DE NEER	SUPERVISOR
DATE	18/06/2019	REVIEWED
SCALE	1 : 20 (AS)	CHECKED
DRAWING REFERENCE	CAT/RDN/2019/23	YEAR
		SECOND



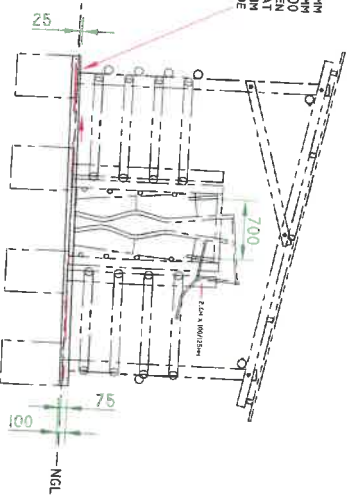
SLAB IN WORKING AREA



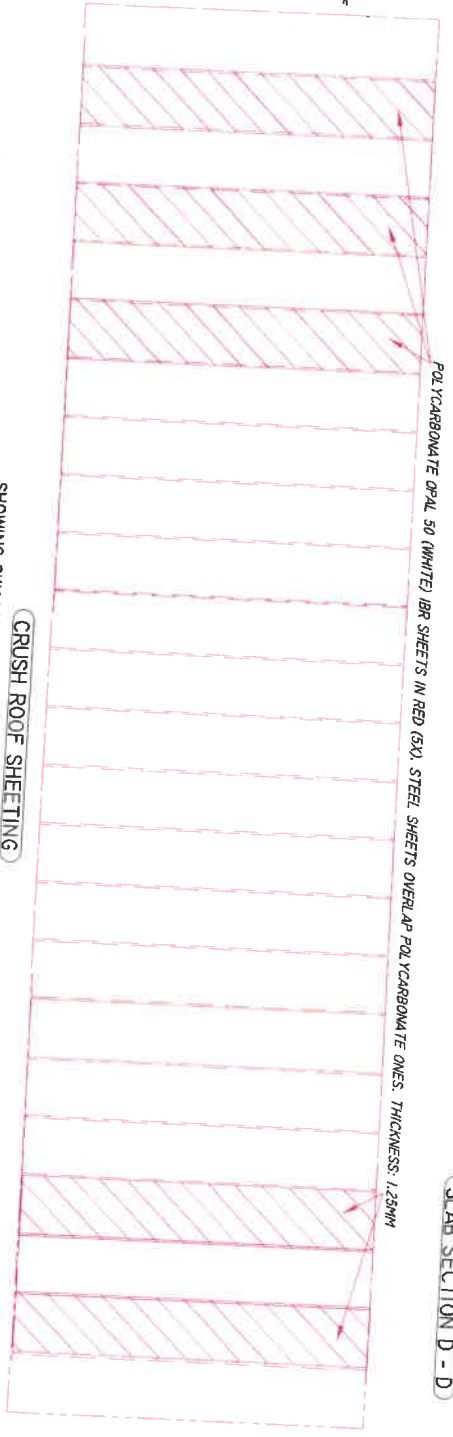
SLAB IN WORKING AREA



SLAB SECTION C - C



SLAB SECTION D - D



CRUSH ROOF SHEETING

SHOWING SKY LIGHTS ABOVE WORKING AREA AND CRUSH ENTRY

ROOFLNGTH: 24 SHEETS OF IFR 886 SHEETING (0.5MM THICK GREEN)

- NOTES**
- 1) THIS DRAWING MUST BE READ IN CONJUNCTION WITH THE FOLLOWING DRAWINGS:
CAT/RDN/2019/023
CAT/RDN/2019/024
CAT/RDN/2019/025
CAT/RDN/2019/026
 - 2) THE FLOOR MUST BE COARSE TO PREVENT ANIMALS FROM SLIPPING FLOORS WITH AN IMPRINTED DIAMOND PATTERN GIVE VERY GOOD RESULT. AFTER CASTING THE FLOOR, A STRAIGHT EDGE IS USED TO IMPRINT THE DIAMOND PATTERN OF APPROXIMATELY 200MM WIDE AND WITH GROOVE OF 20MM DEEP INTO THE CONCRETE.

KZN DEPARTMENT OF AGRICULTURE & RURAL DEVELOPMENT



ENGINEERING SERVICES
1 Cedara Road | Cedara | Private Bag 8092 | Ph: 03535428300

CLIENT: CEDARA COLLEGE - STUDENT FARM
PR. ENGINEER: DATE

DRAWING 5
CATTLE CRUSH CEDARA
SLAB & ROOFING DETAILS

USE, PROCUREMENT

DRAWN	Rev	NEF	SHR	REV
DATE	23/07/2019	DES	AND	
SCALE	1 : 50 (AS)	CHECKED		
DRAWING REFERENCE	CAT/RDN/2019/023	INITIALS	YEAR	SECTION