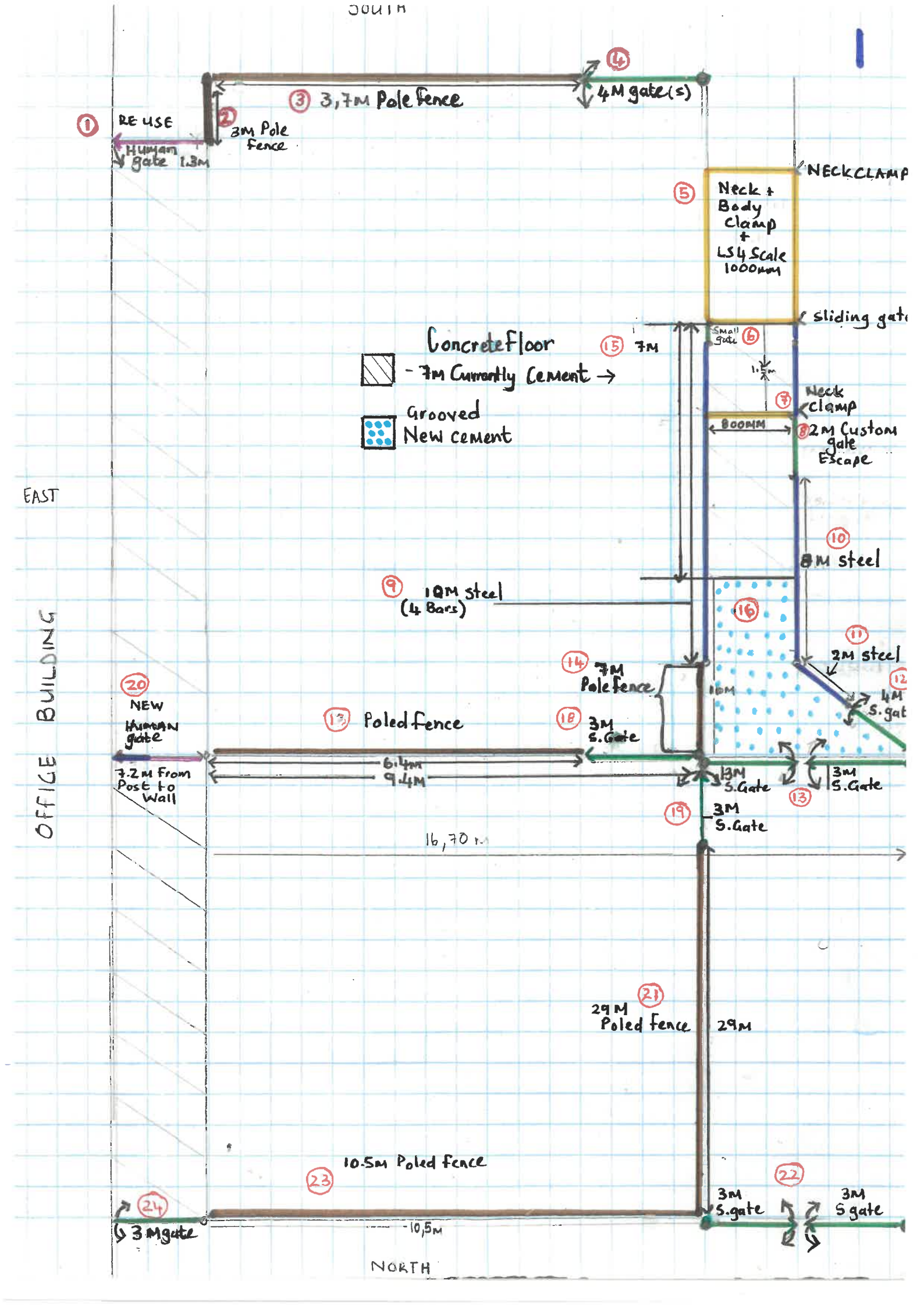

SOUTH
1 RE USE
Human gate 1.3M
2 3M Pole Fence
3 3,7M Pole fence
4 4M gate(s)
NECK CLAMP
5 Neck + Body Clamp + LS4 Scale 1000mm
sliding gate
Concrete floor
- 7M Currently Cement →
Grooved New cement
15 7M
Small gate 6
1,5M
7 Neck clamp
BOOMM
8 2M Custom gate Escape
EAST
10 8M steel
9 10M steel (4 Bars)
16
11 2M steel
14 7M Pole fence
12 4M S.gate
10M
20 NEW Human gate
7.2M From Post to Wall
17 Poled fence
18 3M S.Gate
6.4M
9.4M
13M S.Gate
3M S.Gate
13
19 3M S.Gate
OFFICE BUILDING
16,70 M
21 29M Poled fence
29M
10.5M Poled fence
23
22
3M S.gate
3M S gate
24
3M gate
10,5M
NORTH

RESTRUCTURING OF HOLDING PENS AND TREATMENT AREA OF DAIRY CATTLE:

Please see the sketch

1. Re use the current gate – Human gate size 1.3M
2. 3M, 3 Bars Poled fence
3. 3.7M 3bar Poled fence
4. 4M Strengthened Gate
5. Neck and body Clamp with Weighing system
6. 800mm Small gate – re use the current gate
7. Brahman Neck Clamp
8. 2M Customized gate to fit in to the Steel fenced area as an escape gate for animals – cant swing – lift out system.
9. 10M Steel fence – 4 Bars (including 800mm re use gate)
10. 8M Steel Fence – 4 Bars
11. 2M Steel Fence – 4 Bars
12. 4M Strengthened Steel gate
13. 2 x 3M Strengthened Double gates
14. 7M 3 Bar Poled Fence
15. 7M Cemented area
16. Area to do new grooved cement
17. 6.4M 3bar poled fence
18. 3M Strengthened gate
19. 3M Strengthened gate
20. Install similar gate as with Nr1 – Add a steel structure next to the wall to fasten the gate to
    From wall to post 7.2M. Gate 1.3M
21. 29M Poled fence
22. 2 x 3M Strengthened Double gates
23. 10.5M 3 Bar Poled fence
24. 3M Gate – does not need to be strengthened.

Quote should specify clearly:

1 Wooden pole 3 Bars

2 Steel Structures 4 Bars

3 Rust resistant paint – on all steel areas.- what paint

4 Non strengthened gate

5 Strengthened gates

6 Human gate

7 Customized gate - Escape

8 Neck Clamp – specify

9 Neck and Body Clamp – Specify

10 Scale – Specify

11 Cement Area

WOODEN STRUCTURES

UPRIGHTS:

ALL POLES USED WILL BE SABS graded and CCA treated H5 poles.

All upright poles will be: **2M long and 140 -159mm in diameter.**

An upright will be planted **2M apart from one another – one upright every 2 Meters.**

40cm deep – 1.6M above the ground and 40cm in the ground.

Into a cement mix of 30cm x 30cm AND as per method below to ensure durability.

HAZARD CLASS SYMBOL

H5

END USE APPLICATION

In Fresh Water / Wet Soils

TYPICAL EXAMPLES

Piling/foundation posts/poles
Agricultural & feedlot posts/poles
Retaining Walls
Slipways
Culverts
Groynes
Flood Gates
Jetties
Drains
Walkways

SABS PINE TAPERED POLES

	Class 2	Class 3	Class 4	Class 5	Class 6	Class 7	Class 8
	50-79mm	80-99mm	100-119mm	120-139mm	140-159mm	160-179mm	180-199mm
1.5m	R 46.31	R 83.34	R 113.49	R 157.13	R 266.25	R334.10	R 416.15
1.8m	R 56.08	R 102.01	R 138.95	R 191.31	R 320.89	R 389.94	R 509.78
2.1m	R 68.03	R 124.17	R 165.12	R 226.23	R 391.07	R 497.47	R 615.36
2.4m	R 81.18	R 145.66	R 192.04	R 262.61	R 453.38	R 575.11	R 711.22
2.7m	R 93.91	R 167.14	R 220.41	R 299.71	R 516.64	R 654.66	R 808.99
3.0m	R 106.66	R 191.47	R 254.64	R 346.22	R 581.81	R 736.13	R 907.72
3.6m		R 242.28	R 316.43	R 428.12	R 716.98	R 903.88	R 1,112.83
4.2m		R 294.32	R 381.96	R 514.50	R 857.86	R 1,078.34	R 1,324.67
4.8m		R 349.61	R 482.32	R 604.59	R 1005.48	R 1,260.44	R 1,545.13
5.4m		R 408.96	R 524.92	R 699.88	R 1,139.08	R 1,424.34	R 1,742.53
6.0m		R 492.25	R 685.43	R 909.95	R 1,344.42	R 1,677.10	R 2,046.88

Our poles are SABS APPROVED and are manufactured to **SABS 457** specification and are CCA Treated to **SABS CCA H4** specification.

Note:
Some sizes are only available on order.

SABS 457 specification states that tapered poles are classed (measured) on the **THIN end of the pole** only. Eg. A 80-99mm pole will measure between 80mm and 99mm on the THIN end. The **thick end is not measured and may be thicker** due to natural taper of timber poles which varies.

CORRECT METHOD OF PLANTING POLES

- If a treated pole or post is planted in the ground it is essential that you allow for drainage of rainwater.
- Do not enclose the planted end of the post in the concrete.
- If you need to use concrete then let the concrete form a collar around the post with the end protruding through the concrete.
- If you plant the post on concrete at the bottom of the hole, let the concrete set before planting the post.

- Again, use a pole made from very durable and CCA-treated wood. They must be suitable for "ground contact".
- Dig a wide hole. For a standard fence pole, the hole should be about 30cm wide and the depth should allow for about 1/3 of the post to be below the soil. Don't forget to add extra space below to accommodate the base. You can use a post hole digger or post driver to help create the hole.
- Add about 10-15 cm of gravel to the base of the hole to increase the drainage ability.
- Position the post in the hole and drop two stakes into the soil next to the pole. Nail or screw two pieces of wood between the stakes and the pole. This is just a temporary measure to keep the pole in place until the concrete has set.
- Repeat this process for all poles that require a concrete base.
- Add an additional layer of gravel around the base of the pole.
- Mix your concrete mixture.
- Fill the rest of the holes around your poles with concrete, up to the soil level.
- Trowel the concrete into a sloped shape so that it slopes downwards from the pole. This aids drainage by allowing the water to run off from the pole.
- Allow at least three days for the concrete to set before you continue building the fence or putting any weight on the pole.
- Seal the gap between the pole and concrete with a sealant that bonds to concrete and wood.

Tip: Do not enclose the base of the pole completely in concrete as this will cause water to collect there and the pole to rot.

- 10.5m (23)
- 29m (21)
- 6.4m (13)
- 7M (14)
- 3M (2)
- 3.7M (3)

HORIZONTALS:

SABS graded and CCA treated H5 poles will be used

All horizontal poles will be: **2M long and 120 -139mm in diameter**

3 Horizontal poles will be mounted to the upright with 10mm threaded bar.

Poles will be evenly spaced exactly as the current wooden structure

FASTNING OF POLES :

The **10mm Galvanized Threaded bar will have a washer and bolt on both ends of the pole.**

No protruding rod should be seen – it should be cut flush or it will cause injuries to animals.

FARM GATES:

Sizes of gates as indicated in the sketch.

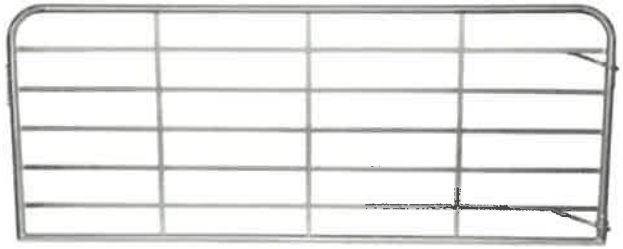
Every gate should be attached to square tubing as indicated under **"Strengthened gates" – Specify size of square tube and how deep it will be planted .**

It should be able to carry the load of the gate.

Only ONE gate – at the entrance by the offices on the NORTHERN SIDE does not need added support. (24)

Every gate should be able to swing without touching the floor/ground at all.

Below is a photo of the gates .



STRENGTHENED GATES: Square tubing – 3M Filled with cement and capped

"DOUBLE GATES" (13) and (22)

Where indicated two gates should be placed next to each and swing outwards to allow animals to pass trough a wider area.

Below is an example of such a structure – But ALL gates should **be strengthened as indicated above.**

As per sketch:

7 x Strengthened gates

2 x Double gates (they should be strengthened and are included in the 7 above)

1 x Non strengthened gate at the entrance by the office where we met. (24)

2 x Human gates, non-strengthened – one new, one re use but newly painted. (1) (20)

1 x customized gate in the crush as an escape gate 2M S (8)

Should be custom made to fit in with the crush on the same lines.

This is an example from Bull test. To the left is the neck clamp – to the right is the crush passage

This gate should be 2.0M

This gate will not be able to swing open, as the roof structure will prevent this.

We would need a sliding lock on theone side, on the other side we would need to be able to disconnect the gate from the Steel crush fence.

So that we may remove the gate if a cow goes down, and we need to open for her to be able to come out of the crush.

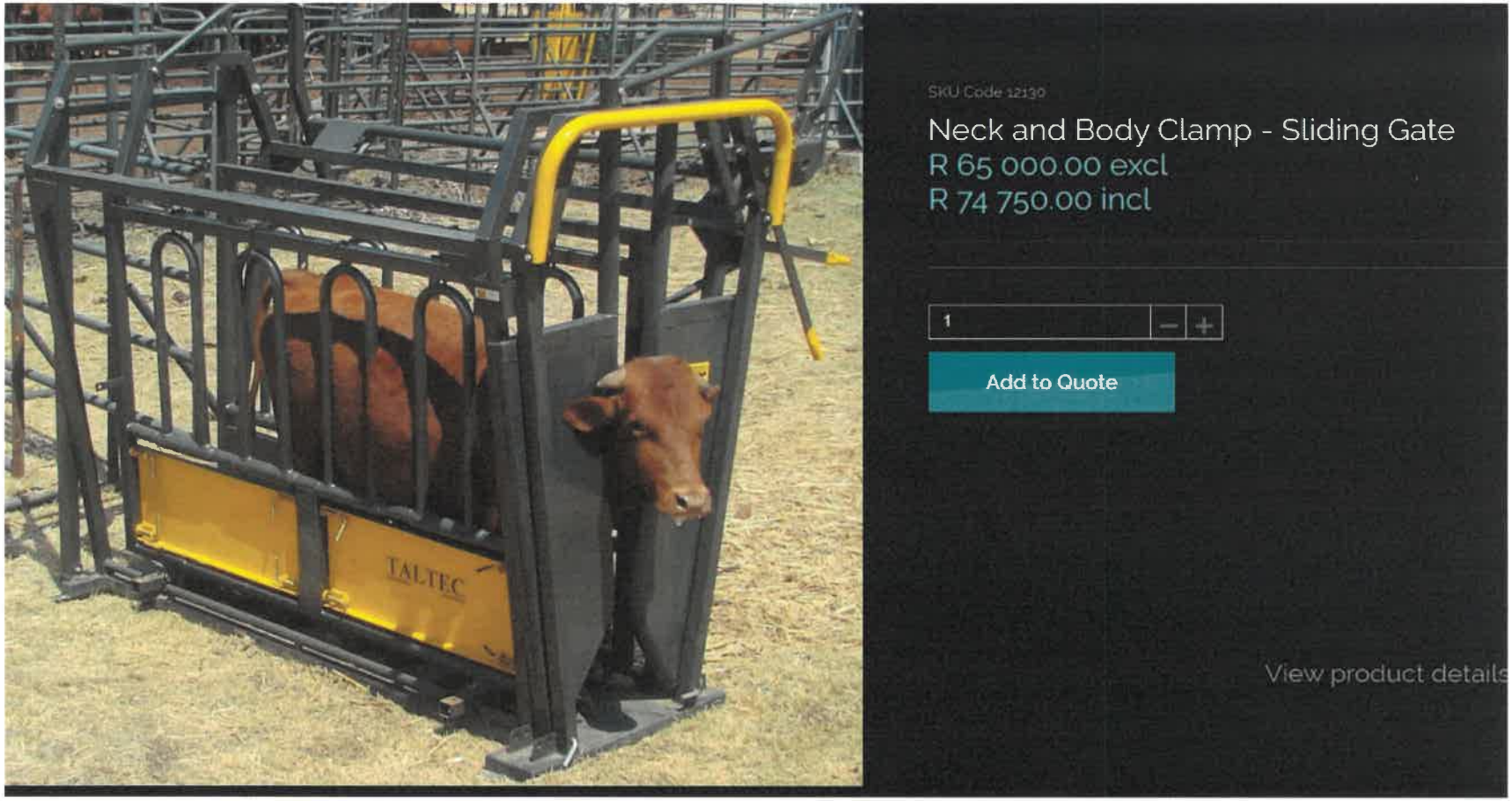
1 x Small gate in the crush between neck clamp and Body and Neck clamp. (6)

The lady is standing in the entrance of this gate.

Our gate can be re used – should be welded? Onto the steel upright that will replace the wooden pole it is currently attached to.

800MM

The current Tilting table/body clamp should be removed and replaced with the TALTEC product seen below. (5)



Sliding gate at the back and Neck Clamp at the back

This crate should be fitted with a scale LS4 1000mm loadbar scale

The fitting of the Neck and body clamp, with the loadbar scale should be done as per specification of TALTEC

The Neck and body clamp will be fitted to a crush that is 800mm wide

Then The small gate (that is currently used in our crush)

Then a space of 1.3M

Then a neck clamp will be fitted to the crush that is 800mm wide.

(5)

LS4 ELECTRONIC SCALE 1 000MM

Electronic cattle scale that weighs 0 - 2000kg. Loadbars get bolted onto a clamp or crate. The scale have a rechargable battery that can last up to 8 ...

R 18 388.50

VIEW DETAILS ADD TO QUOTE

Neck clamp (7)

NECK CLAMP - BRAHMAN

The neck clamp gets bolted onto your existing crush which is 700mm wide. You can adjust the doors according to the size of your cattle. The neck clamp .

R 16 675.00

VIEW DETAILS ADD TO QUOTE

The neck clamp should be Welded into position as well as bolted to the floor and or sides – an animal weighing 700kg should not be able to run it out of position.

Steel fenced area by the crush:

Eastern side of the crush passage:

5 Body and neck clamp weighing cage

6 800mm gate

10. 10M – small gate (800mm) steel Fence

Western side of the crush passage:

5. Body and neck clamp weighing cage

1.5M – one cow body length before the neck clamp

7. Neck Clamp

8. Customised gate 2M – escape gate

10. 8M Steel fence

11. 2M Steel fence

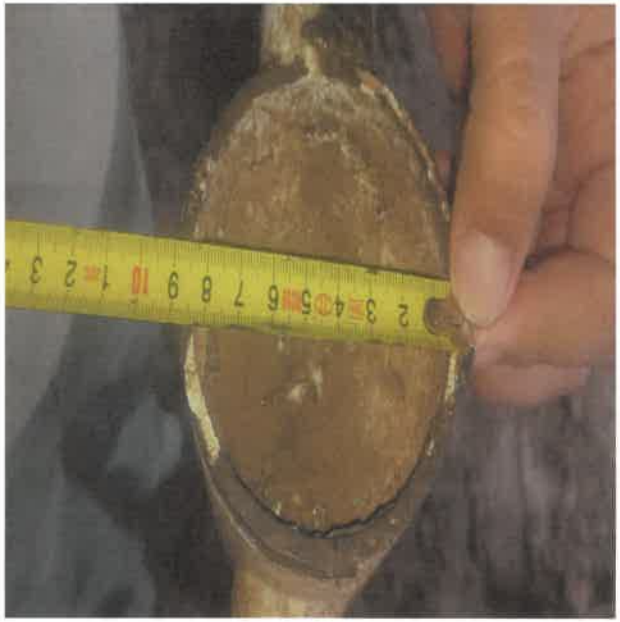
12. 4M Gate

Down pipe every 2M

Galvanized Pipe 85mm inside diameter – 90mm outside diameter – filled with cement and capped.

Planted in cement 600mm deep – adding concrete into a sloped shape, so that it slopes downwards from the pole, allowing water to run off from the pipe – as indicated below.

1.6 M High. (above ground)



Horizontal – 4 lines (only by the crush area)

54mm Galvanized (outside diameter)

40mm inside diameter

1st line – 300mm bottom line measured from the floor.

2nd line 400mm further

3rd line 400mm further

4th line – top bar 500mm further

Concrete crush area: Should have grooves to handle animal movement without slipping. (16)

150mm deep

40MPA

Correct measures should be taken to ensure no cracking between current cement area and new cement area.

There should be a slope – no steps – for the animals to be able to step onto cement area with ease.