



**DEPARTMENT OF RURAL DEVELOPMENT
AND
AGRARIAN REFORM**

STANDARD INFRASTRUCTURE DRAWINGS

**TO BE READ TOGETHER WITH:
SPECIFICATION OF CONSTRUCTION MATERIALS AND
METHODS TO BE USED FOR AGRICULTURAL ON-FARM INFRASTRUCTURE**

All references to South African Bureau of Standards Specifications and Codes of Practice in this Document shall be deemed to refer to the latest issue of such specifications and codes as may be amended from time to time and are to be read in conjunction with the latest issue of the National Building Regulations

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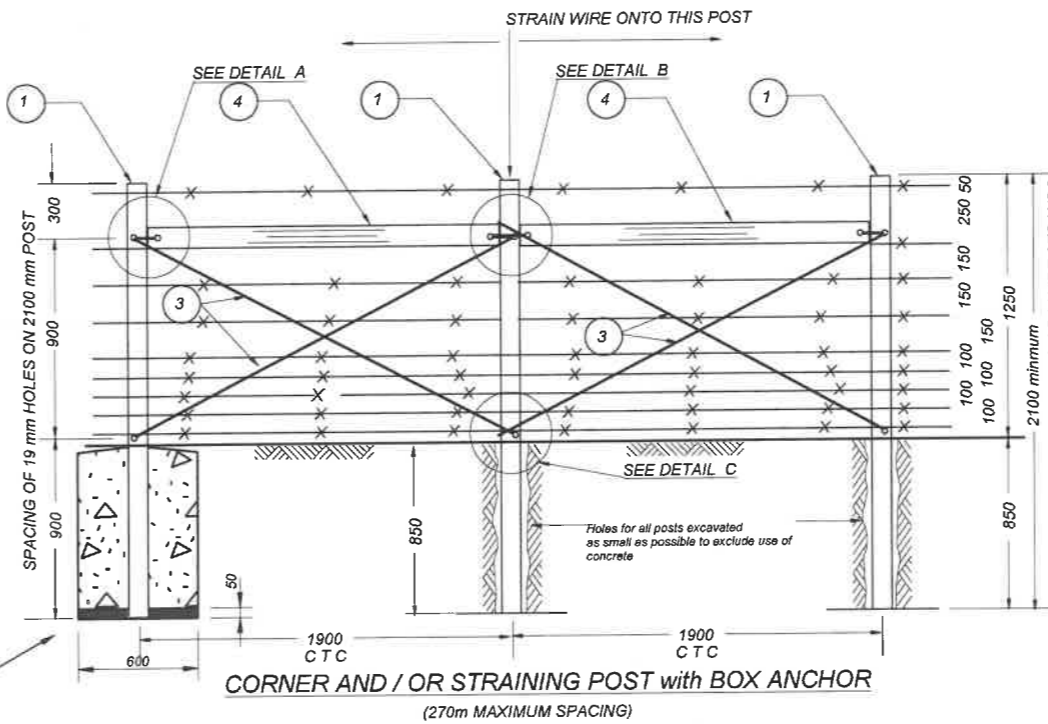
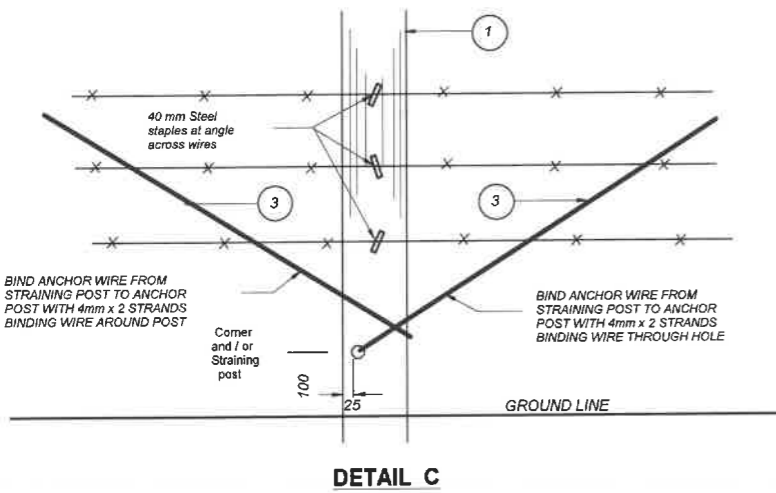
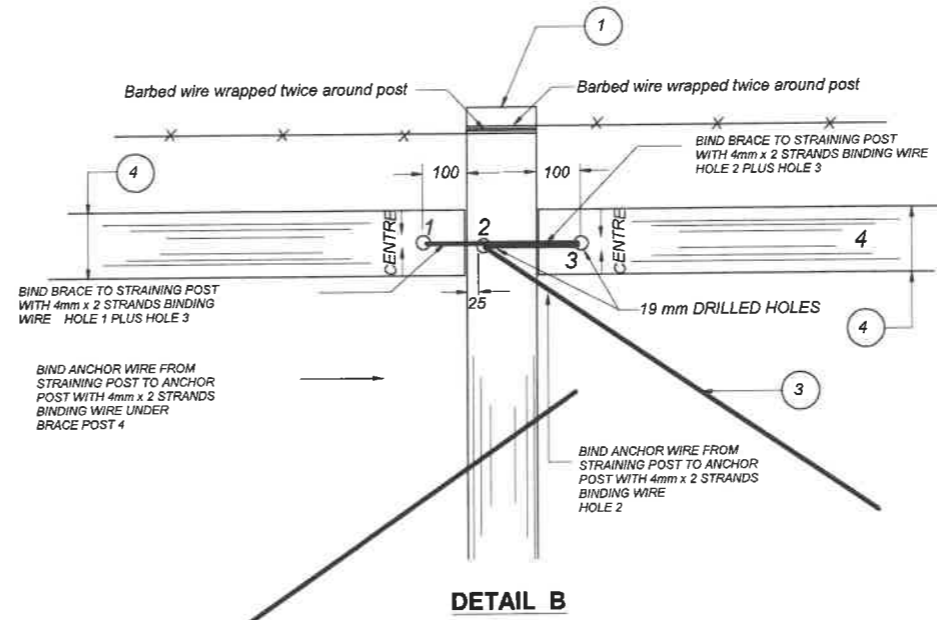
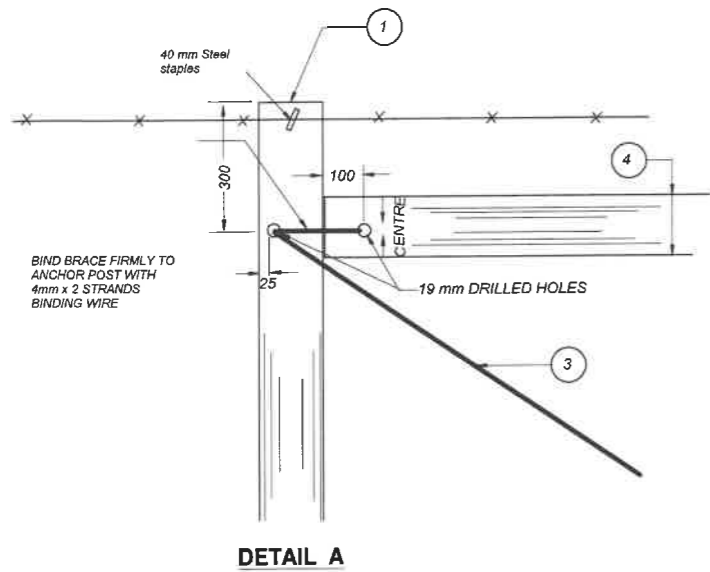
**DIRECTORATE ENGINEERING SERVICES
THIRD EDITION OCTOBER 2024**

REVISION: DRDAR SCMM-03/2024

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19.1 STANDARD STOCK PROOF FENCE (1,2m)



*15MPa concrete on all Corner, straining and gate posts if so ordered by the Engineer, and quantified in Bill of Quantities

*15MPa concrete on all Corner, straining and gate posts if so ordered by the Engineer, and quantified in Bill of Quantities

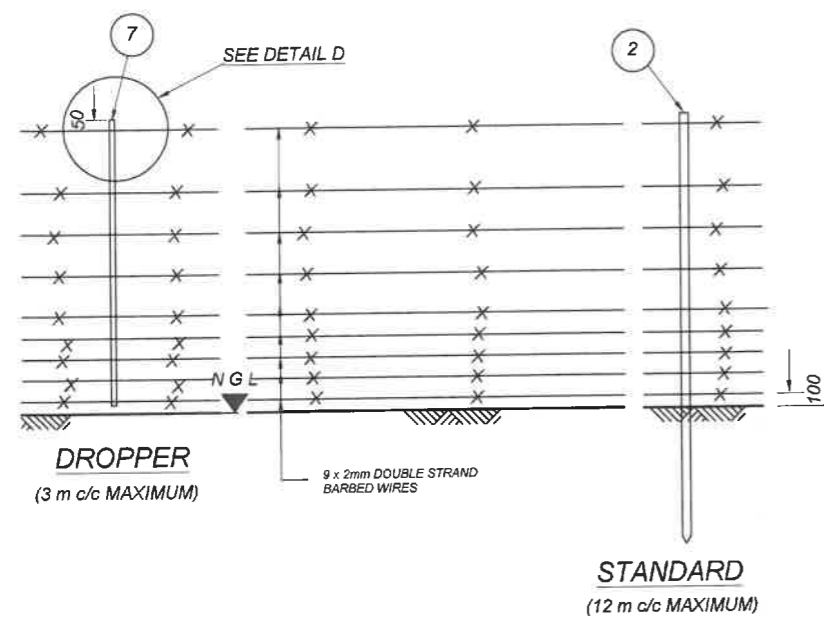
CORNER WITH BOX ANCHOR

LEGEND

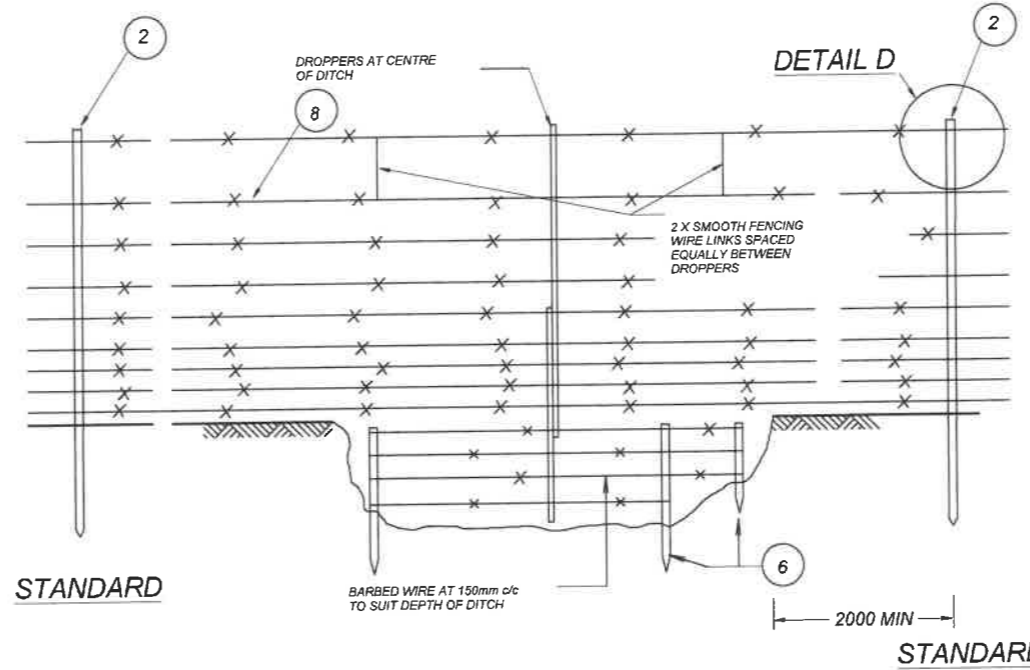
- 1 125 - 150mm TOP DIAMETER x 2100 mm TREATED TIMBER POST CORNER, STRAINING AND ANCHOR POSTS
- 3 4mm x 4 STRANDS TWISTED SOFT GALVANISED BINDING WIRE
- 4 100 - 125mm TOP DIAMETER x 1800 mm TREATED TIMBER POST BRACES IN BOX ANCHORS

- NOTES:
1. 40 mm STAPLES REQUIRED FOR CORNER POSTS and STRAINING POSTS
 2. THIS DRAWING TO BE READ IN CONJUNCTION WITH THE PROJECT PARTICULAR SPECIFICATIONS FOR FENCES
- NGL NATURAL GROUND LEVEL

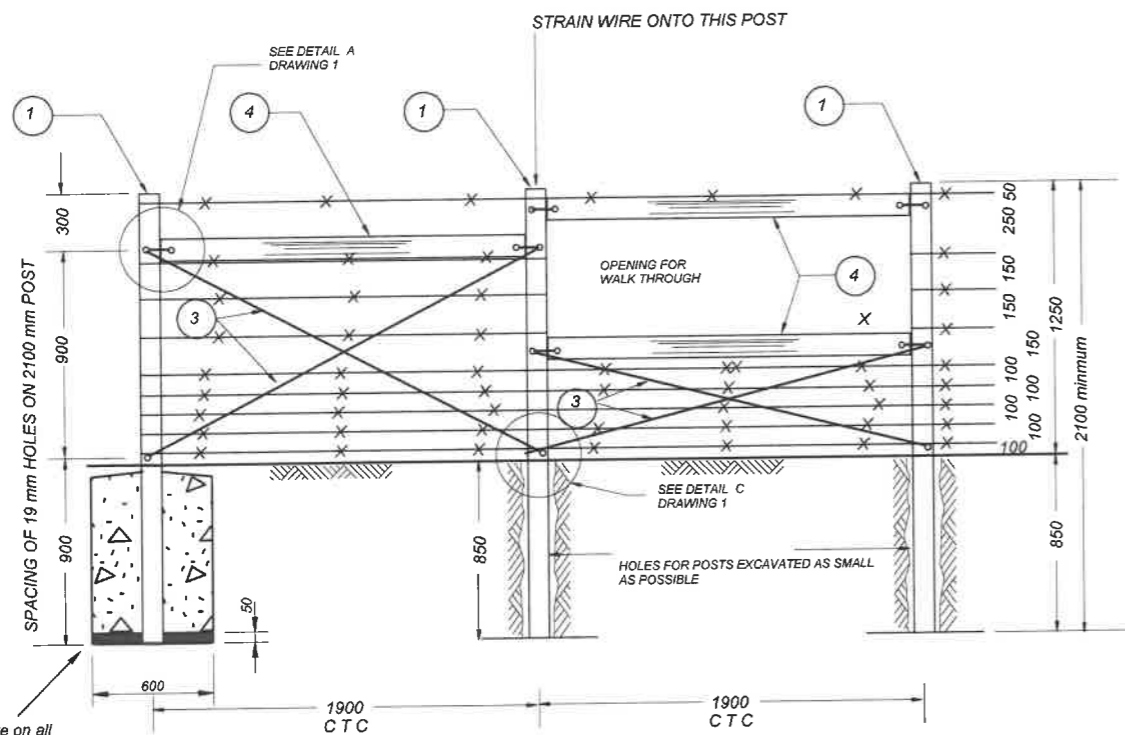
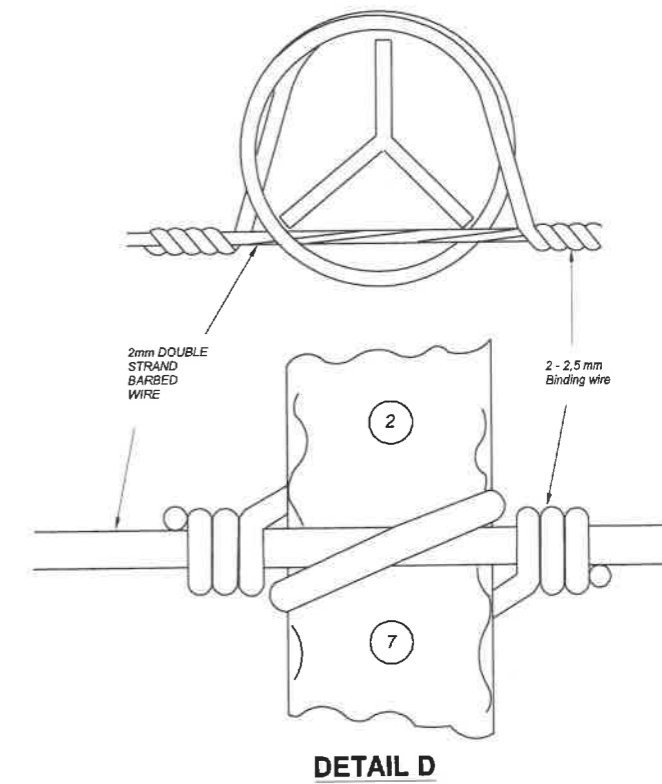
NO.	SPECIAL NOTES:	S KONDLO (CHIEF ENGINEER)	DEPARTMENT OF RURAL DEVELOPMENT AND AGRARIAN REFORM PROVINCE OF THE EASTERN CAPE	STANDARD STOCK PROOF FENCE	SCALE	INDEX NO.
					NTS	SCMM-03/19/01
					1,2m HIGH - 9 STRAND FENCE	PLAN NO.
						A3 ORIGINAL
		OCTOBER 2024 (DATE APPROVED)	ENGINEERING SERVICES PRIVATE BAG X015 DOHNE ADI STUTTERHEIM 4930			



STOCK PROOF FENCE



CROSSING CANALS AND TRENCHES



STRAINING POST with BOX ANCHOR WALKTHROUGH
(270m MAXIMUM SPACING)

*15MPa concrete on all Corner, straining and gate posts if so ordered by the Engineer, and quantified in Bill of Quantities

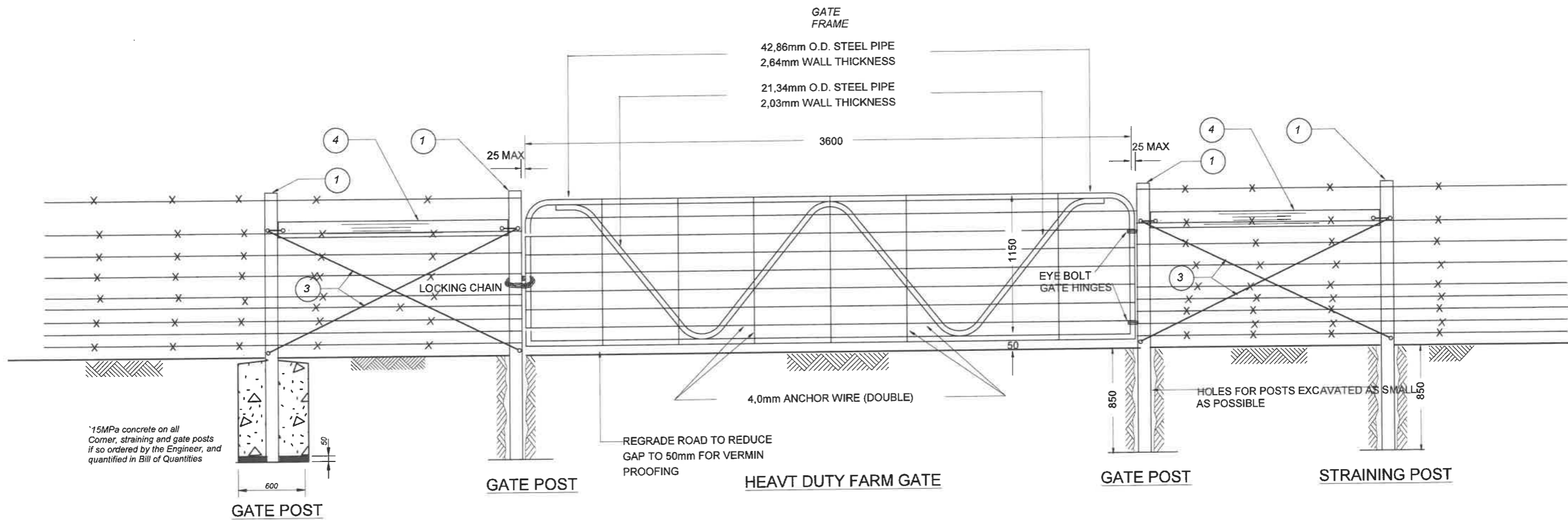
LEGEND

- 1 — 125 - 150mm TOP DIAMETER x 2100 mm TREATED TIMBER POST CORNER, STRAINING AND ANCHOR POSTS
- 2 — 2,0 kg/m x 1800 mm Y SECTION IRON STANDARD
- 3 — 4mm x 4 STRANDS TWISTED SOFT GALVANISED BINDING WIRE
- 4 — 100 - 125mm TOP DIAMETER x 1800 mm TREATED TIMBER POST BRACES IN BOX ANCHORS
- 5 — STANDARDS EMBEDDED IN CLASS 20/19 CONCRETE IF ORDERED BY THE ENGINEER
- 6 — STAKES (DROPPER PROFILE) OF SUITABLE LENGTH DRIVEN FIRMLY INTO SIDES & BED OF TRENCH AT APPROVED SPACINGS. STAKES TO BE ALIGNED WITH & TIED TO DROPPERS WITH WIRE WHERE REQUIRED.
- 7 — 0,56 kg/m x 1250 mm RIDGEBACK PATTERN IRON DROPPER
- 8 — Barbed wire, 2 x 2mm, galvanized, SABS approved
- 9 — High Tensile 2.24mm dia plain wire, galvanized, SABS approved.
- 10 — Netting wire, 1.8mm dia, 1200mm x 90mm hexagonal mesh

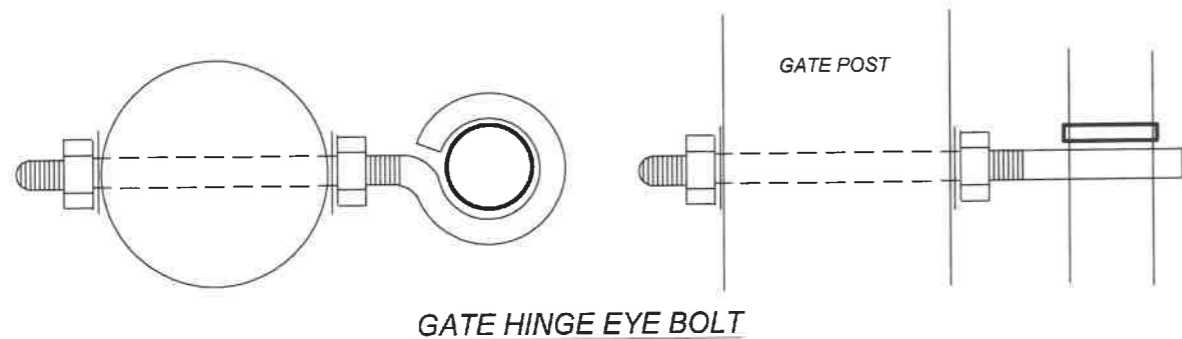
NGL NATURAL GROUND LEVEL

NOTES: 1. 40 mm STAPLES REQUIRED FOR CORNER POSTS and STRAINING POSTS
2. THIS DRAWING TO BE READ IN CONJUNCTION WITH THE PROJECT PARTICULAR SPECIFICATIONS FOR FENCES

NO.	SPECIAL NOTES:	S KONDLO (CHIEF ENGINEER)	DEPARTMENT OF RURAL DEVELOPMENT AND AGRARIAN REFORM PROVINCE OF THE EASTERN CAPE	STANDARD STOCK PROOF FENCE	SCALE	INDEX NO.
				1,2m HIGH - 9 STRAND FENCE	NTS	SCMM-03/19/02
		OCTOBER 2024 (DATE APPROVED)	ENGINEERING SERVICES PRIVATE BAG X015 DOHNE ADI STUTTERHEIM 4930		A3 ORIGINAL	PLAN NO. SHEET 2 OF 6



FARM GATES



LEGEND

- 1 — 125 - 150mm TOP DIAMETER x 2100 mm TREATED TIMBER POST
CORNER, STRAINING, GATE AND ANCHOR POSTS
- 3 — 4mm x 4 STRANDS TWISTED SOFT GALVANISED BINDING WIRE
- 4 — 100 - 125mm TOP DIAMETER x 1800 mm TREATED TIMBER POST
BRACES IN BOX ANCHORS

NGL NATURAL GROUND LEVEL

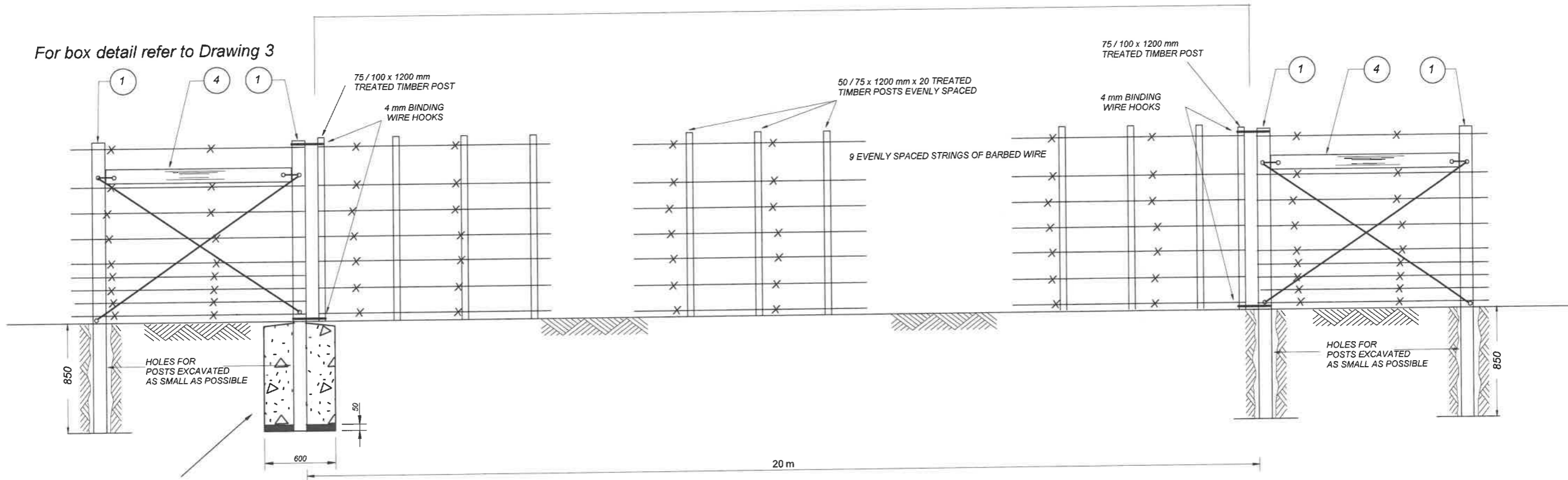
NOTES: 1. 40 mm STAPLES REQUIRED FOR CORNER POSTS and STRAINING POSTS

2. THIS DRAWING TO BE READ IN CONJUNCTION WITH THE PROJECT PARTICULAR SPECIFICATIONS FOR FENCES

NO.	SPECIAL NOTES:	S KONDLO (CHIEF ENGINEER)	DEPARTMENT OF RURAL DEVELOPMENT AND AGRARIAN REFORM PROVINCE OF THE EASTERN CAPE	STANDARD STOCK PROOF FENCE	SCALE	INDEX NO.
				1,2m HIGH - 9 STRAND FENCE	NTS	SCMM-03/19/03
		OCTOBER 2024 (DATE APPROVED)	ENGINEERING SERVICES PRIVATE BAG X015 DOHNE ADI STUTTERHEIM 4930		A3 ORIGINAL	PLAN NO. SHEET 3 OF 6

REMOVABLE FENCE

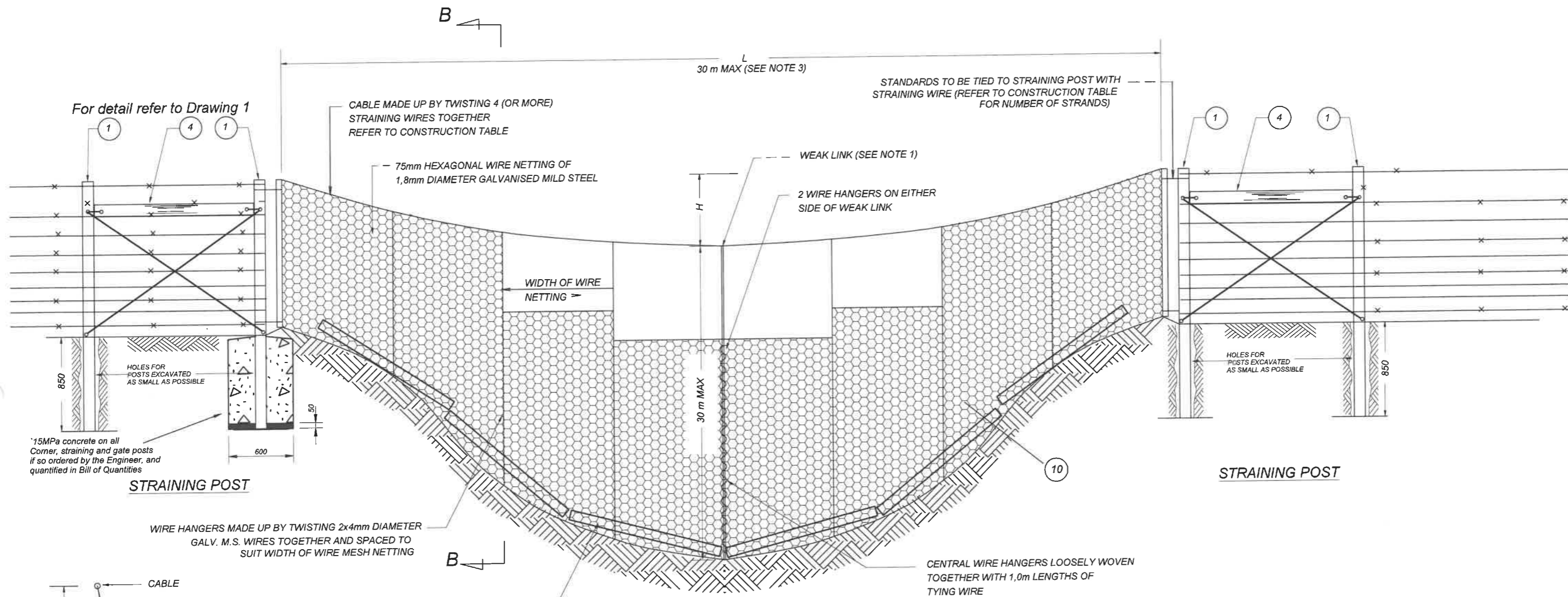
For box detail refer to Drawing 3



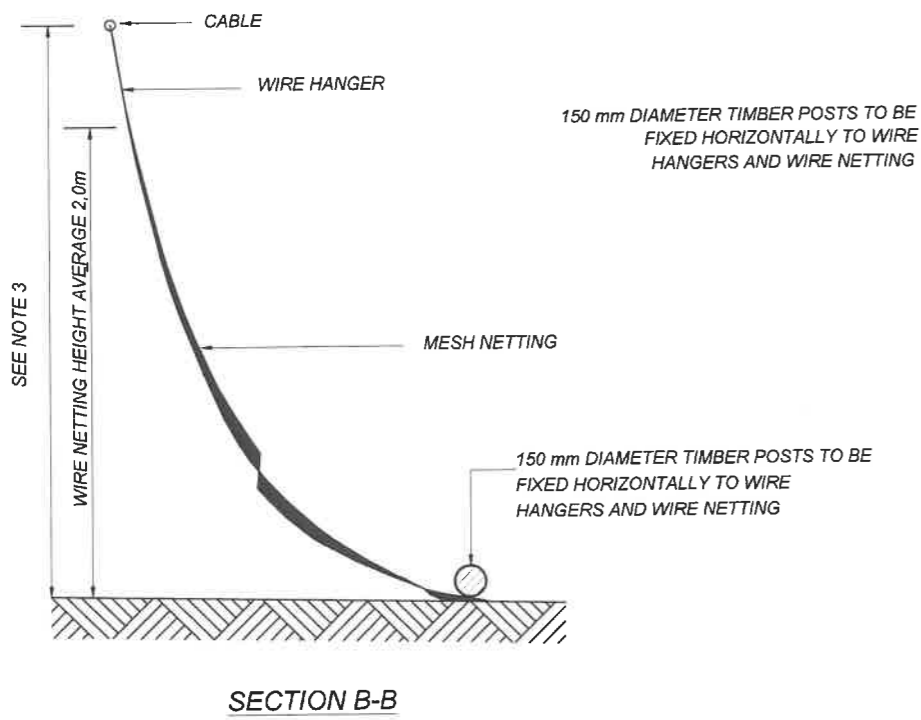
*15MPa concrete on all Corner, straining and gate posts if so ordered by the Engineer, and quantified in Bill of Quantities

OPENING FOR WIDE IMPLEMENTS

NO.	SPECIAL NOTES:	S KONDLO (CHIEF ENGINEER)	DEPARTMENT OF RURAL DEVELOPMENT AND AGRARIAN REFORM PROVINCE OF THE EASTERN CAPE	STANDARD STOCK PROOF FENCE	SCALE	INDEX NO.
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		OCTOBER 2024 (DATE APPROVED)	ENGINEERING SERVICES PRIVATE BAG X015 DOHNE ADI STUTTERHEIM 4930		A3 ORIGINAL	PLAN NO. SHEET 4 OF 6



ELEVATION



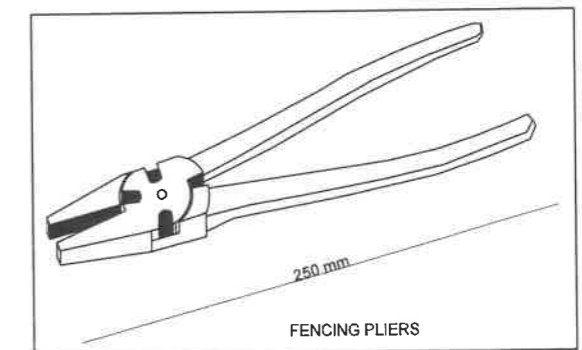
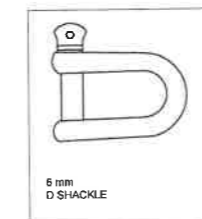
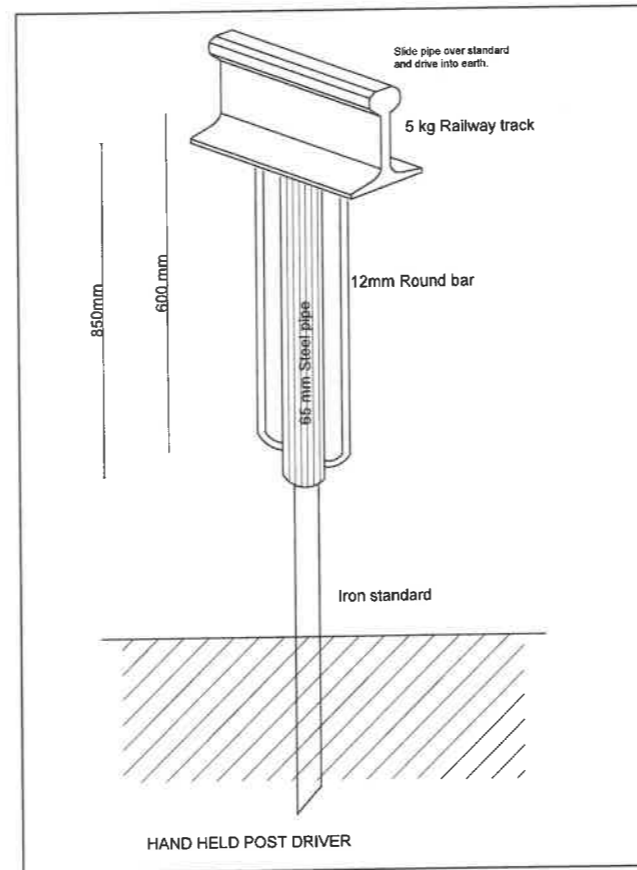
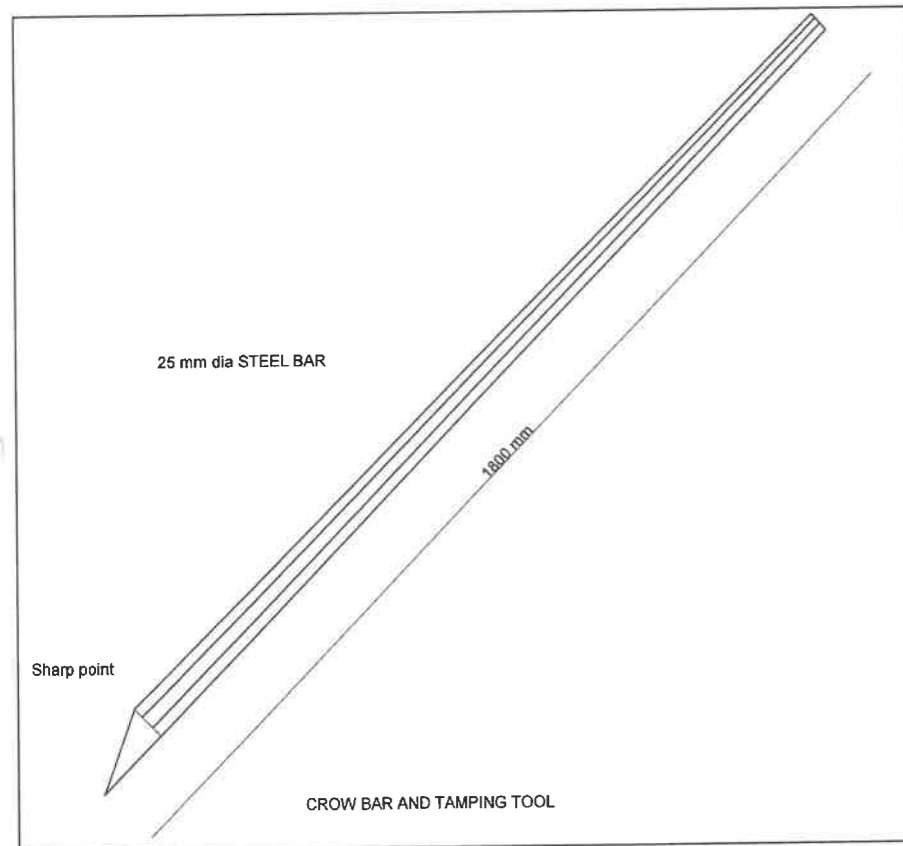
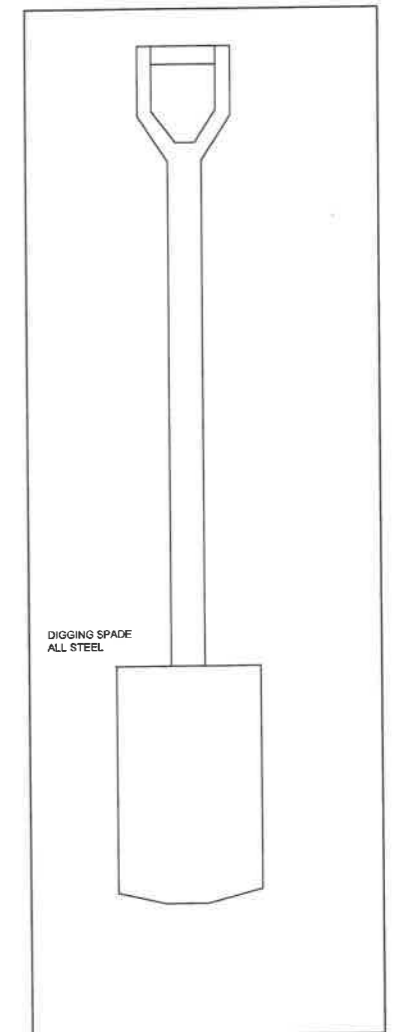
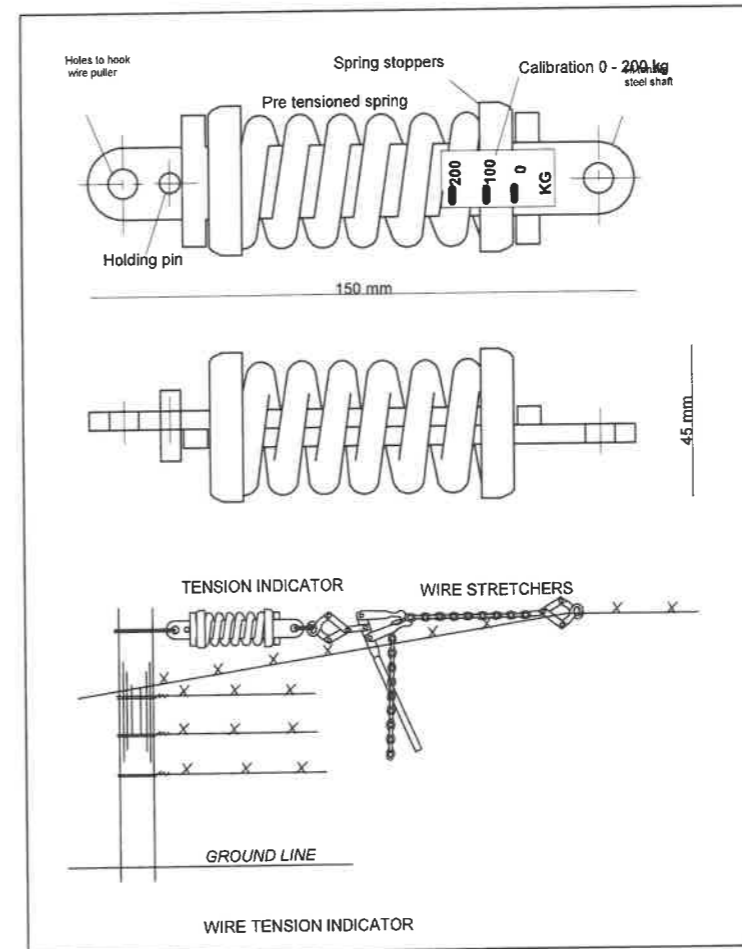
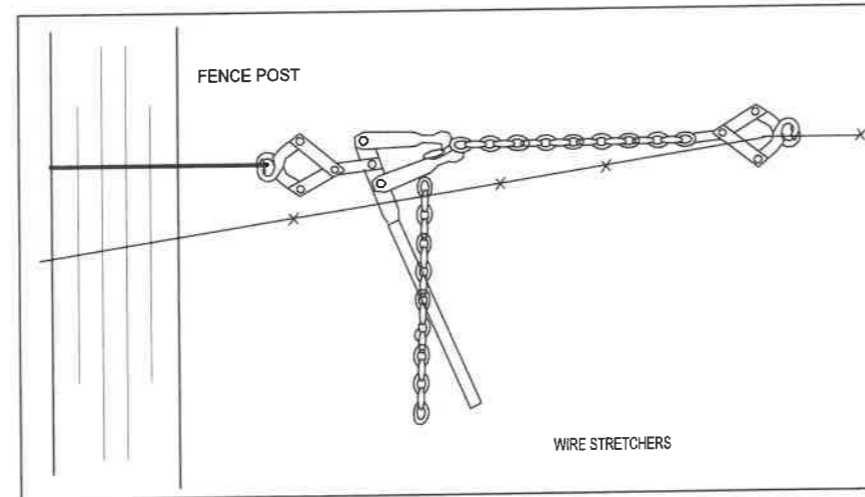
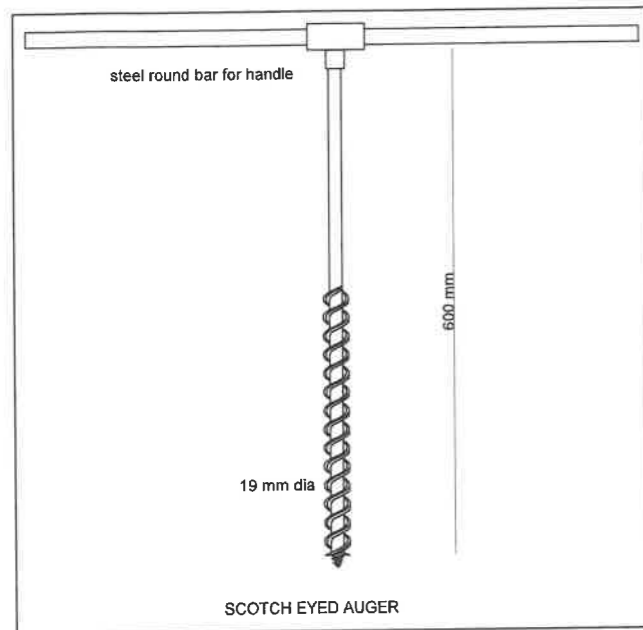
SECTION B-B

CLOSING OF OPENINGS

CONSTRUCTION TABLE			
SPAN L (m)	No OF STRAINING WIRES	H (m)	No OF LOOPS IN WEAK LINK
10	4	0.2	2
15	4	0.3	2
20	4	0.5	2
25	6	0.6	3
30	6	0.8	3
>30	SPECIAL DESIGN BY THE ENGINEER		

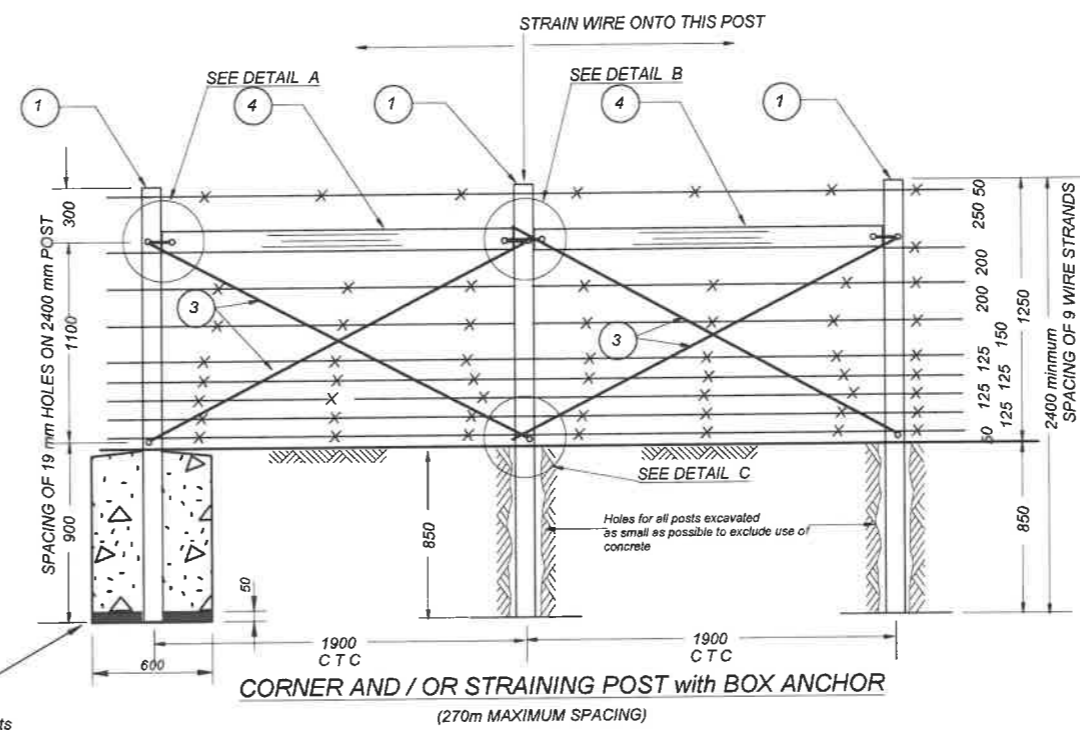
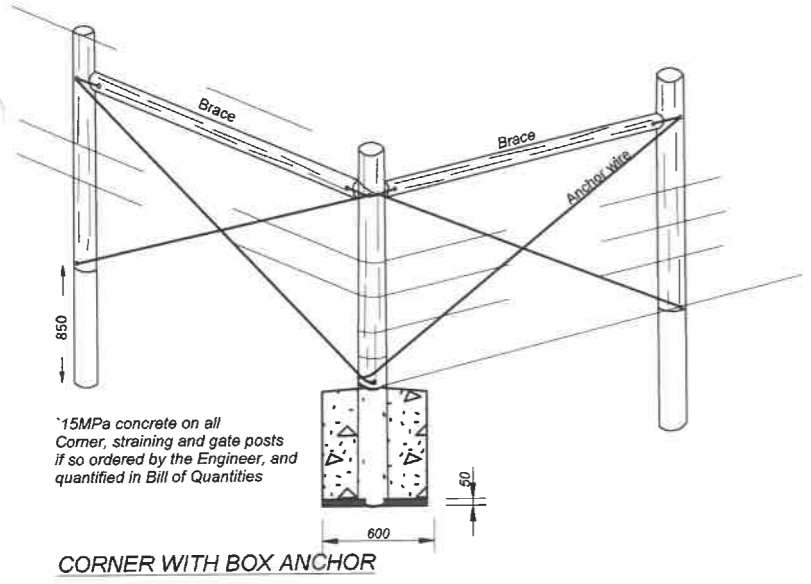
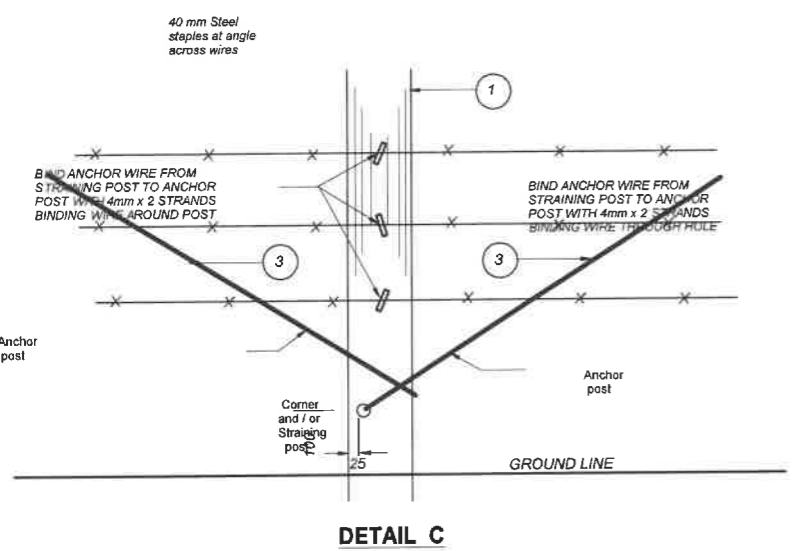
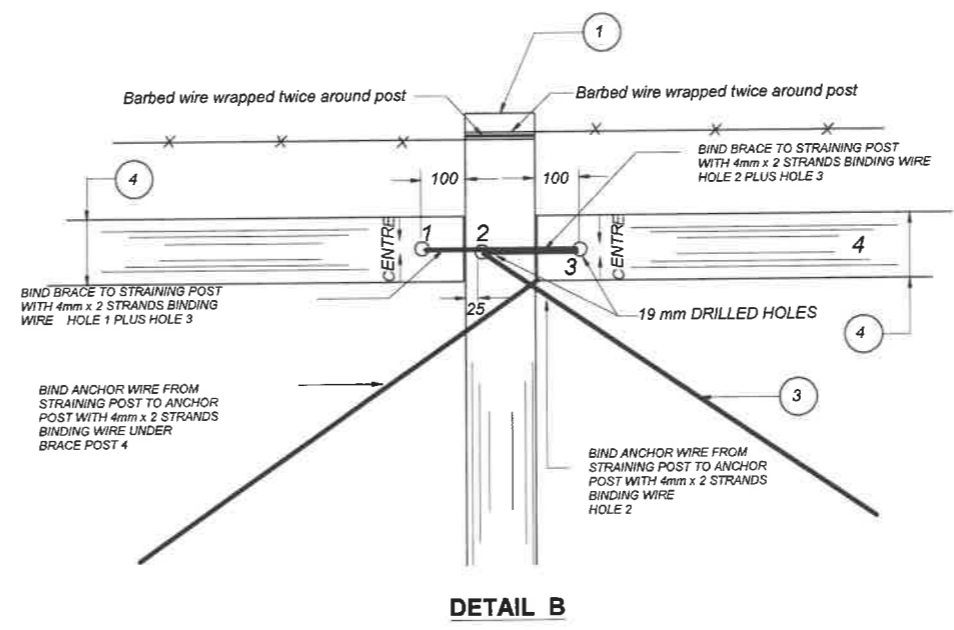
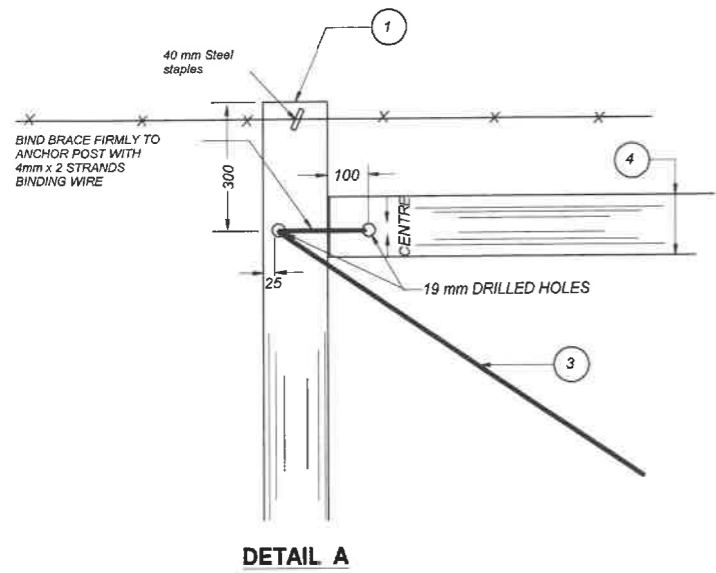
- NOTES :**
- WEAK LINK IN CABLE MAY BE POSITIONED EITHER AT END STANDARDS OR IN CENTRE OF CABLE AS SHOWN. FORM BY LOOPING A STRAINING WIRE THROUGH WIRE HANGERS. NUMBER OF LOOPS ARE TABULATED IN CONSTRUCTION TABLE.
 - WHEN HEIGHT OF CABLE IS LESS THAN 2,0m, WIRE HANGERS MAY BE OMITTED AND NETTING LAPPED HORIZONTALLY.
 - IF LENGTH OF WIRE NETTING EXCEEDS 30m FENCING TO BE DESIGNED BY THE ENGINEER.
- 10 — Netting wire, 1.8mm dia, 1200mm x 90mm hexagonal mesh

NO.	SPECIAL NOTES:	S KONDLO (CHIEF ENGINEER)	DEPARTMENT OF RURAL DEVELOPMENT AND AGRARIAN REFORM PROVINCE OF THE EASTERN CAPE	STANDARD STOCK PROOF FENCE	SCALE	INDEX NO.
				1,2m HIGH - 9 STRAND FENCE	NTS	SCMM-03/19/05
		OCTOBER 2024 (DATE APPROVED)	ENGINEERING SERVICES PRIVATE BAG X015 DOHNE ADI STUTTERHEIM 4930		A3 ORIGINAL	PLAN NO. SHEET 5 OF 6



NO.	SPECIAL NOTES:	S KONDLO (CHIEF ENGINEER)	DEPARTMENT OF RURAL DEVELOPMENT AND AGRARIAN REFORM PROVINCE OF THE EASTERN CAPE	STANDARD STOCK PROOF FENCE	SCALE	INDEX NO.
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		OCTOBER 2024 (DATE APPROVED)	ENGINEERING SERVICES PRIVATE BAG X015 DOHNE ADI STUTTERHEIM 4930		A3 ORIGINAL	PLAN NO. SHEET 6 OF 6

19.2 STANDARD STOCK PROOF FENCE (1,4m)

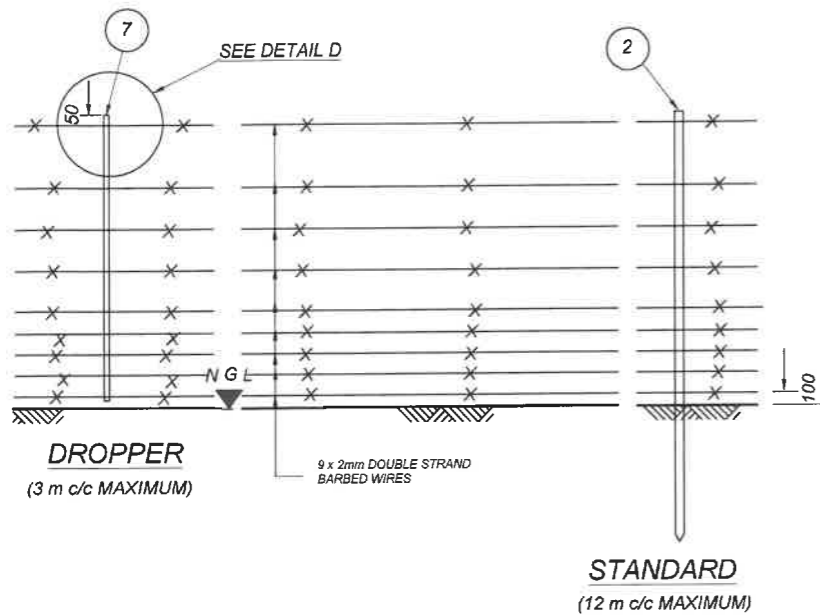


LEGEND

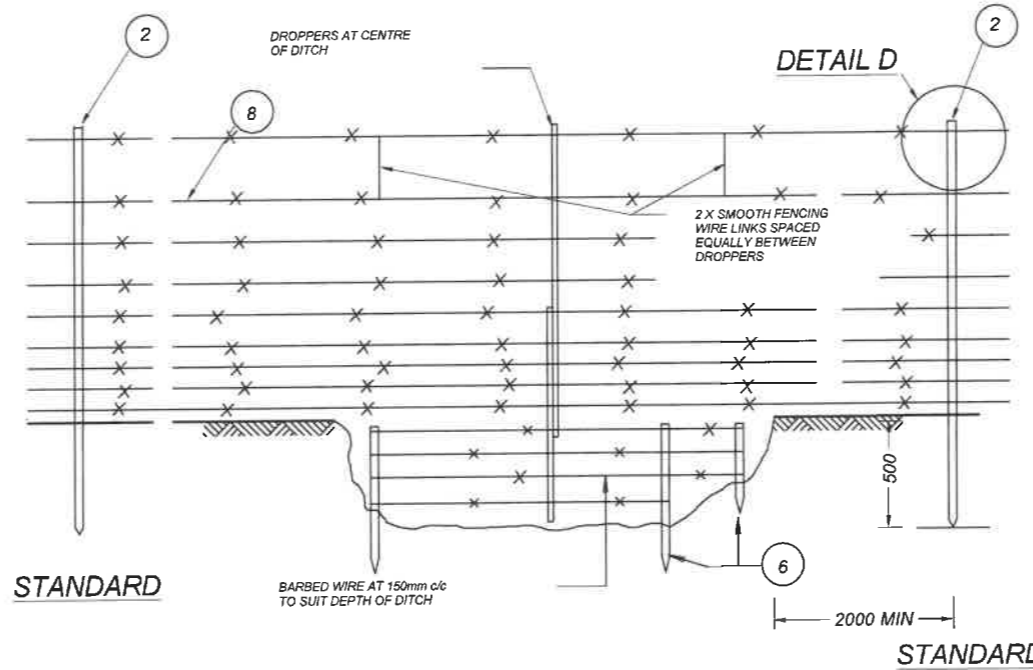
- 1 125 - 150mm TOP DIAMETER x 2400 mm TREATED TIMBER POST CORNER, STRAINING AND ANCHOR POSTS
- 3 4mm x 4 STRANDS TWISTED SOFT GALVANISED BINDING WIRE
- 4 100 - 125mm TOP DIAMETER x 1800 mm TREATED TIMBER POST BRACES IN BOX ANCHORS

- NOTES:**
1. 40 mm STAPLES REQUIRED FOR CORNER POSTS and STRAINING POSTS
 2. THIS DRAWING TO BE READ IN CONJUNCTION WITH THE PROJECT PARTICULAR SPECIFICATIONS FOR FENCES
- NGL NATURAL GROUND LEVEL

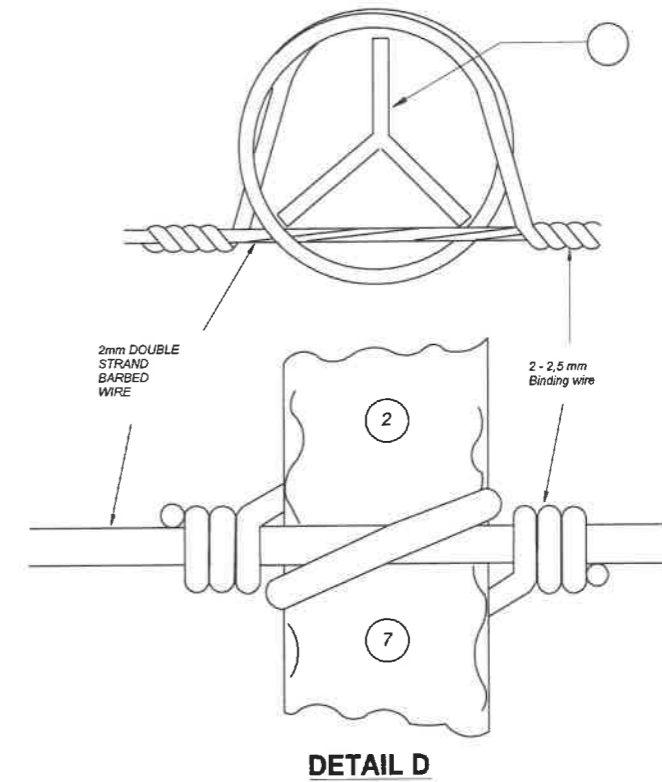
NO.	SPECIAL NOTES:	S KONDLO (CHIEF ENGINEER)	DEPARTMENT OF RURAL DEVELOPMENT AND AGRARIAN REFORM PROVINCE OF THE EASTERN CAPE	SCALE	INDEX NO.
				NTS	SCMM-03/19/01
		OCTOBER 2024 (DATE APPROVED)	ENGINEERING SERVICES PRIVATE BAG X015 DOHNE ADI STUTTERHEIM 4930	1,4m HIGH - 9 STRAND FENCE	PLAN NO. SHEET 1 OF 6
				A3 ORIGINAL	



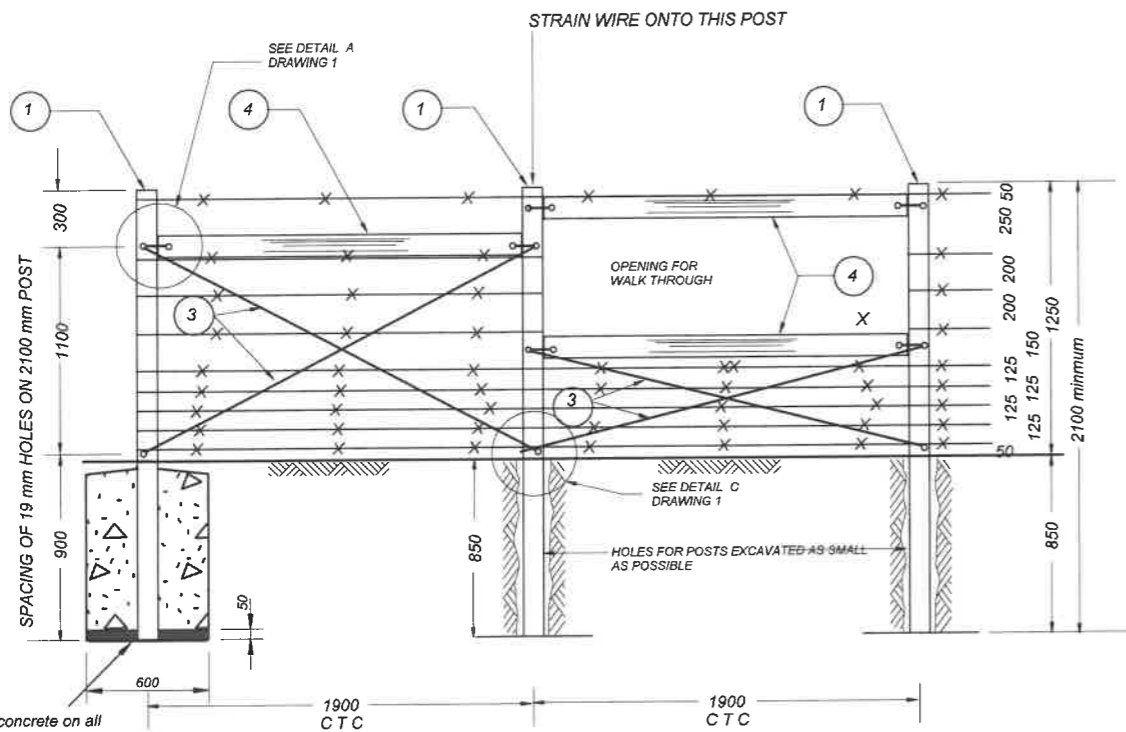
STOCK PROOF FENCE



CROSSING CANALS AND TRENCHES



DETAIL D



STRAINING POST with BOX ANCHOR WALKTHROUGH

(270m MAXIMUM SPACING)

LEGEND

- 1 — 125 - 150mm TOP DIAMETER x 2400 mm TREATED TIMBER POST CORNER, STRAINING AND ANCHOR POSTS
- 2 — 2,0 kg/m x 1800 mm Y SECTION IRON STANDARD
- 3 — 4mm x 4 STRANDS TWISTED SOFT GALVANISED BINDING WIRE
- 4 — 100 - 125mm TOP DIAMETER x 1800 mm TREATED TIMBER POST BRACES IN BOX ANCHORS
- 5 — STANDARDS EMBEDDED IN CLASS 20/19 CONCRETE IF ORDERED BY THE ENGINEER
- 6 — STAKES (DROPPER PROFILE) OF SUITABLE LENGTH DRIVEN FIRMLY INTO SIDES & BED OF TRENCH AT APPROVED SPACINGS. STAKES TO BE ALIGNED WITH & TIED TO DROPPERS WITH WIRE WHERE REQUIRED.
- 7 — 0,56 kg/m x 1450 mm RIDGEBACK PATTERN IRON DROPPER
- 8 — Barbed wire, 2 x 2mm, galvanized, SABS approved
- 9 — High Tensile 2.24mm dia plain wire, galvanized, SABS approved.
- 10 — Netting wire, 1.8mm dia, 1200mm x 90mm hexagonal mesh

NGL NATURAL GROUND LEVEL

NOTES: 1. 40 mm STAPLES REQUIRED FOR CORNER POSTS and STRAINING POSTS
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NO.	SPECIAL NOTES:

S KONDLO
(CHIEF ENGINEER)

OCTOBER 2024
(DATE APPROVED)

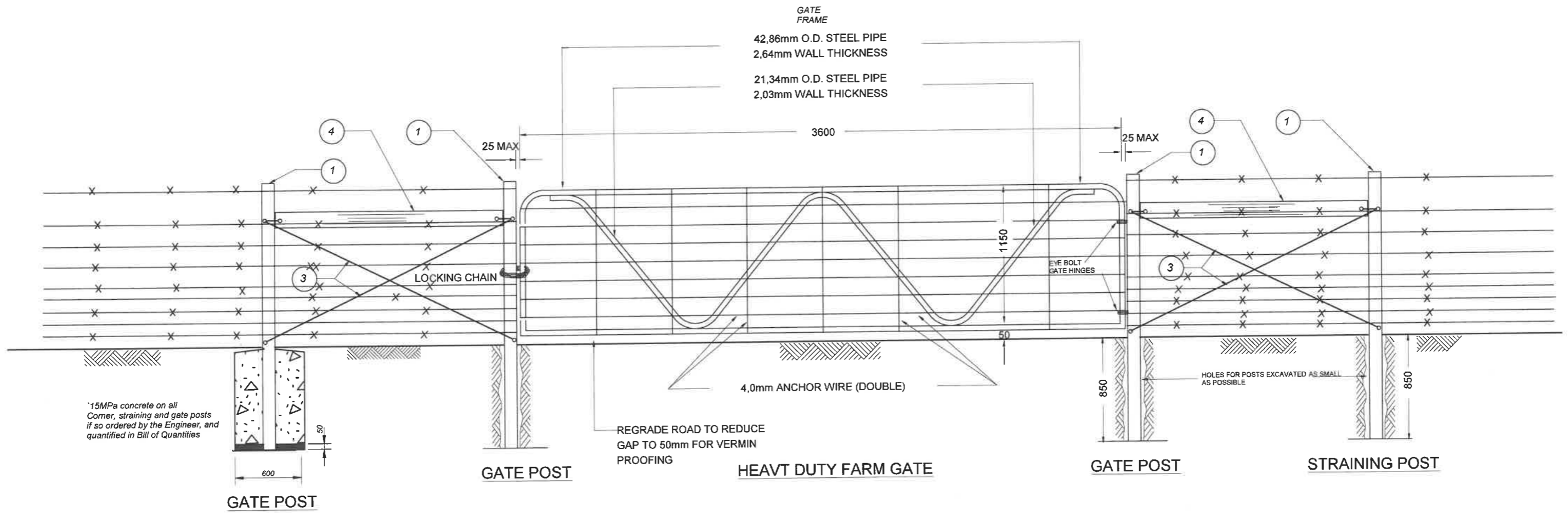
**DEPARTMENT OF RURAL DEVELOPMENT AND AGRARIAN REFORM
PROVINCE OF THE EASTERN CAPE**

ENGINEERING SERVICES
PRIVATE BAG X015
DOHNE ADI
STUTTERHEIM
4930

STANDARD STOCK PROOF FENCE

1,4m HIGH - 9 STRAND FENCE

SCALE	INDEX NO.
NTS	SCMM-03/19/02
A3 ORIGINAL	PLAN NO.
	SHEET 2 OF 6



*15MPa concrete on all
Corner, straining and gate posts
if so ordered by the Engineer, and
quantified in Bill of Quantities

4,0mm ANCHOR WIRE (DOUBLE)

REGRADE ROAD TO REDUCE
GAP TO 50mm FOR VERMIN
PROOFING

HOLES FOR POSTS EXCAVATED AS SMALL
AS POSSIBLE

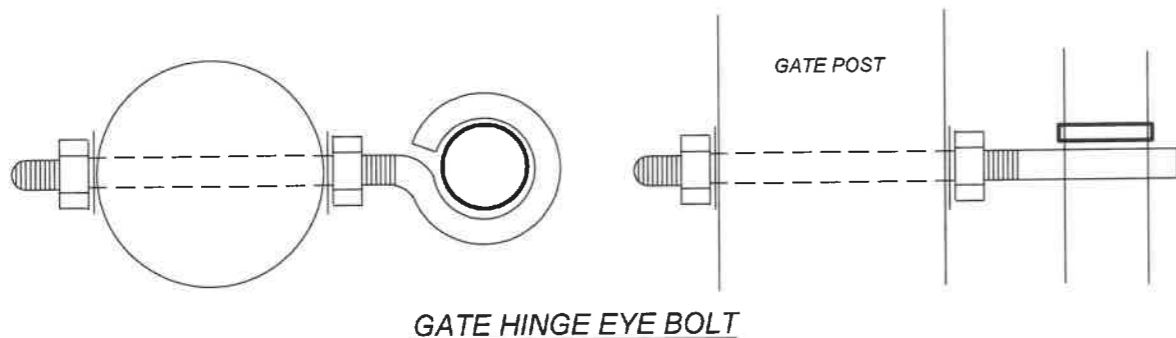
LEGEND

- ① 125 - 150mm TOP DIAMETER x 2400 mm TREATED TIMBER POST
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- ③ 4mm x 4 STRANDS TWISTED SOFT GALVANISED BINDING WIRE
- ④ 100 - 125mm TOP DIAMETER x 1800 mm TREATED TIMBER POST
BRACES IN BOX ANCHORS

NGL NATURAL GROUND LEVEL

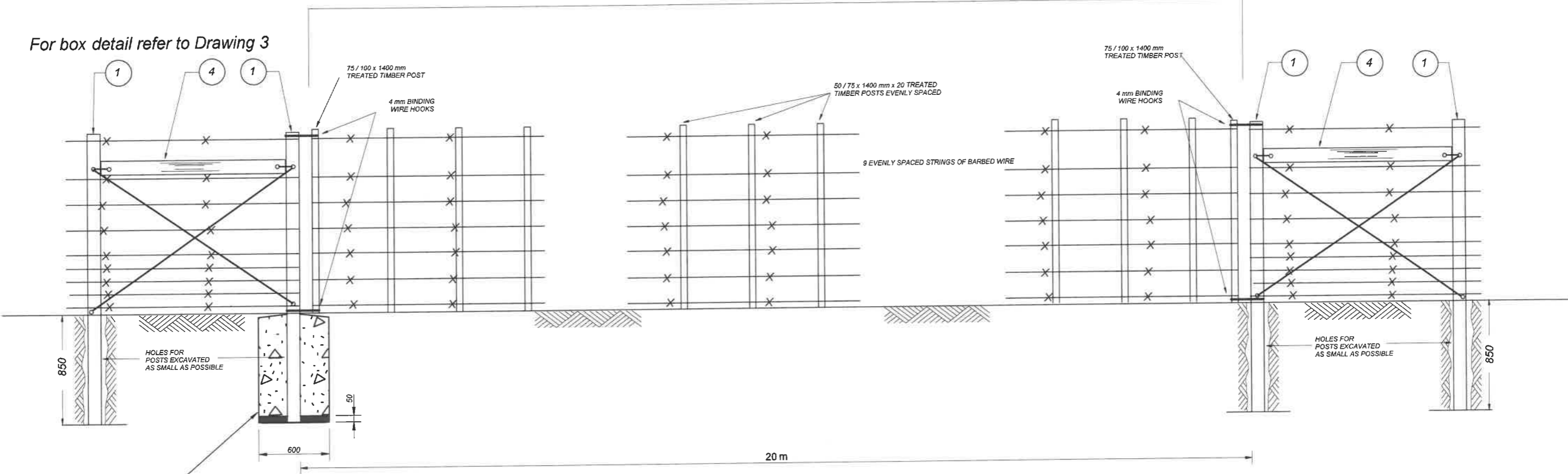
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		OCTOBER 2024 (DATE APPROVED)	ENGINEERING SERVICES PRIVATE BAG X015 DOHNE ADI STUTTERHEIM 4930	1,4m HIGH - 9 STRAND FENCE	A3 ORIGINAL	PLAN NO. SHEET 3 OF 6

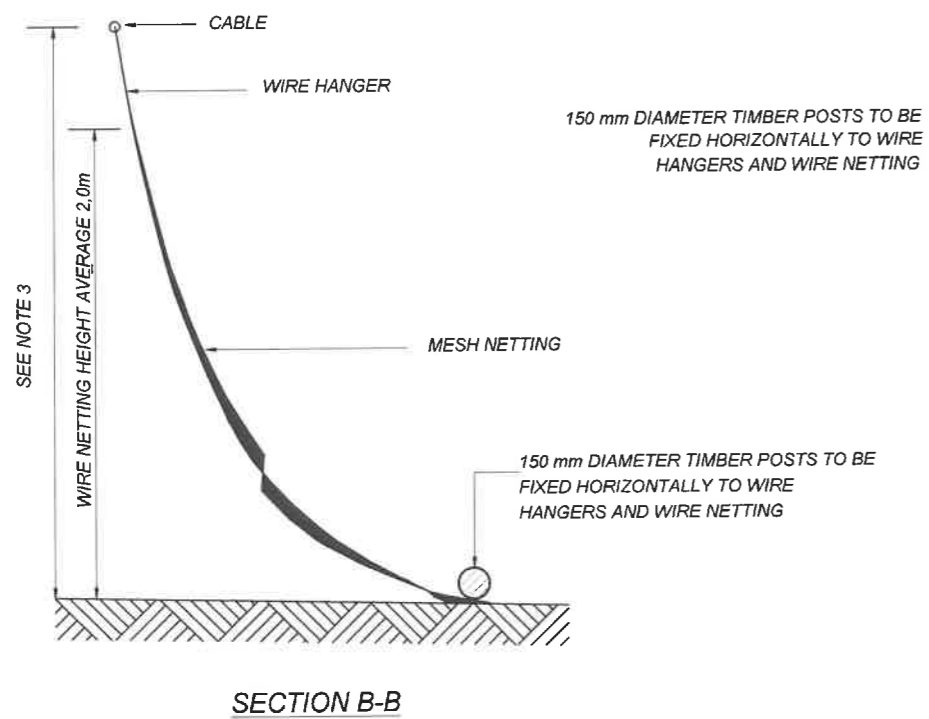
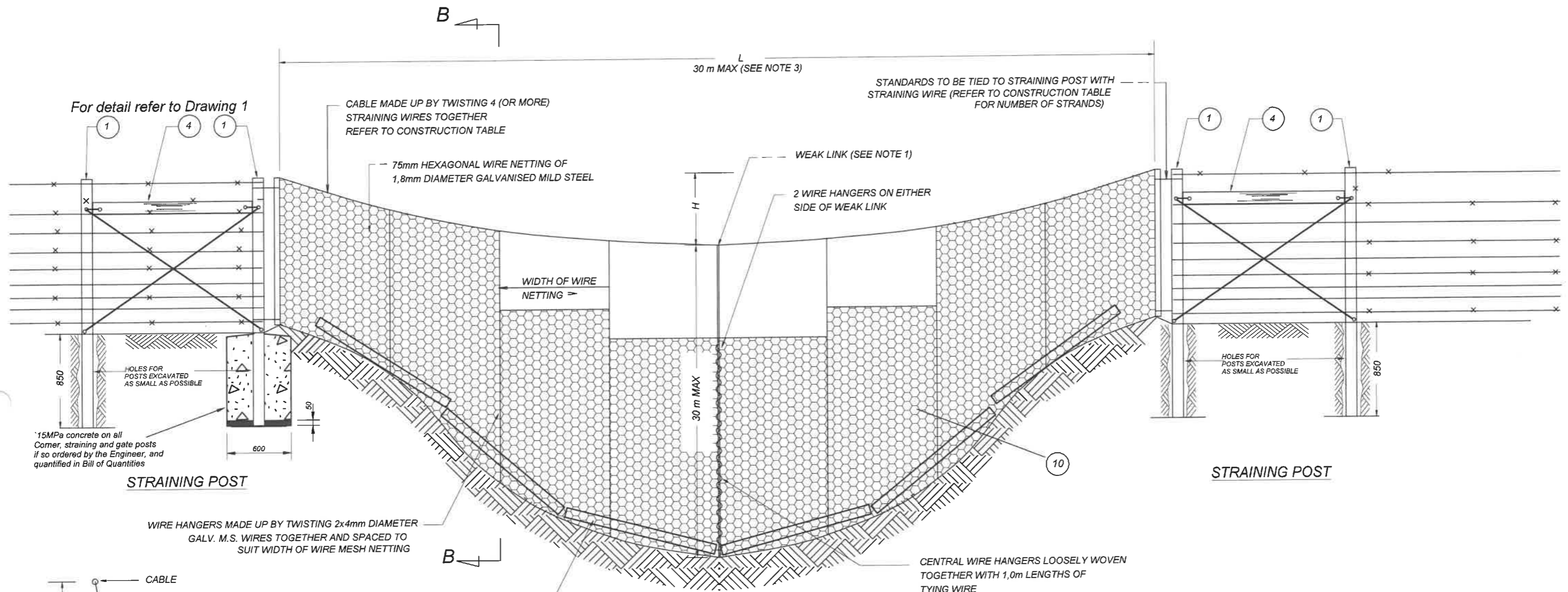
REMOVABLE FENCE



*15MPa concrete on all Corner, straining and gate posts if so ordered by the Engineer, and quantified in Bill of Quantities

OPENING FOR WIDE IMPLEMENTS

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				1,4m HIGH - 9 STRAND FENCE	NTS	SCMM-03/19/04
		OCTOBER 2024 (DATE APPROVED)	ENGINEERING SERVICES PRIVATE BAG X015 DOHNE AD1 STUTTERHEIM 4930		A3 ORIGINAL	PLAN NO. SHEET 4 OF 6

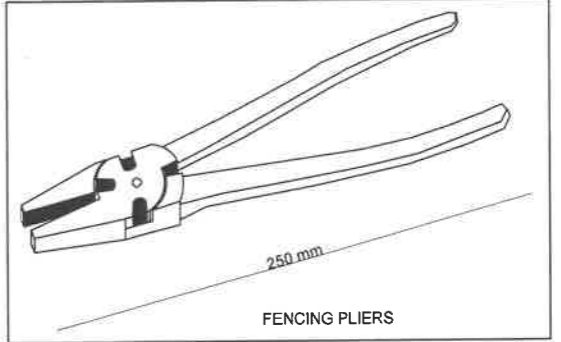
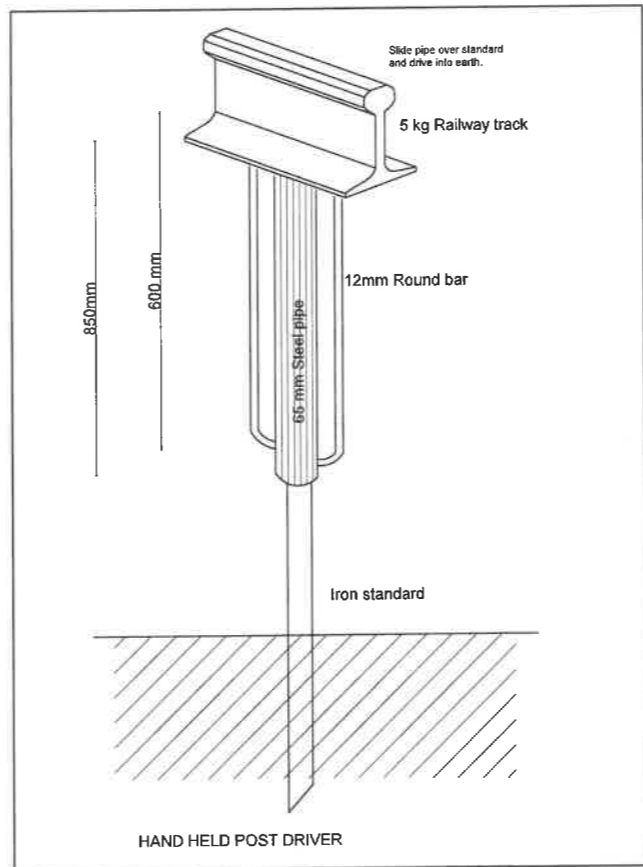
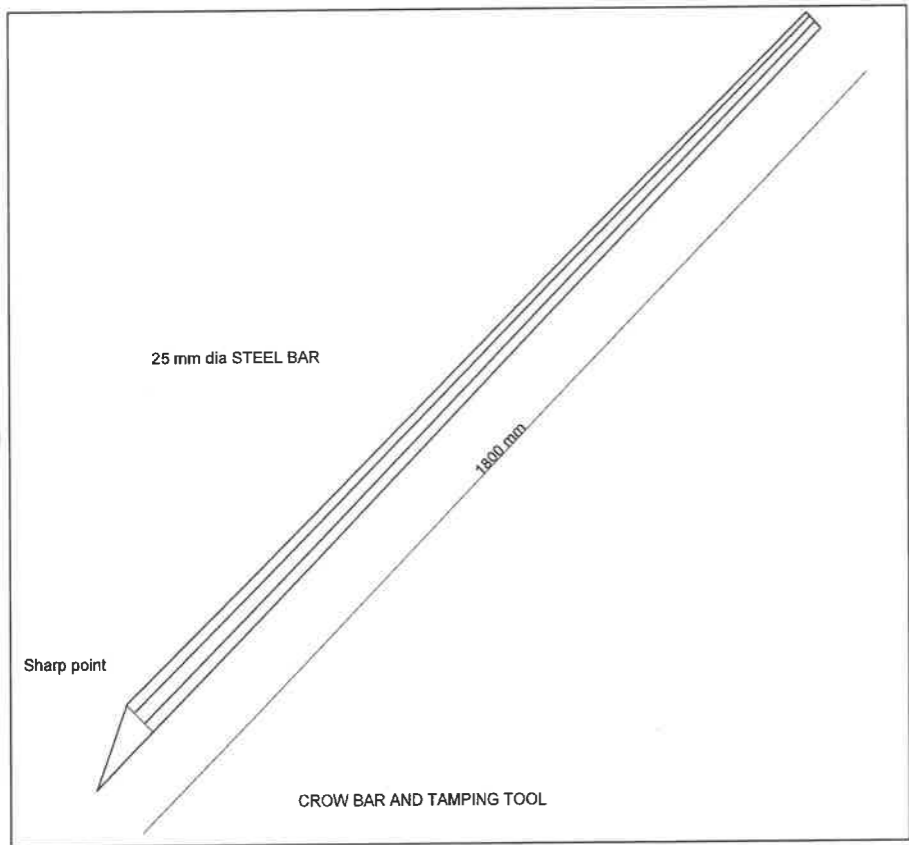
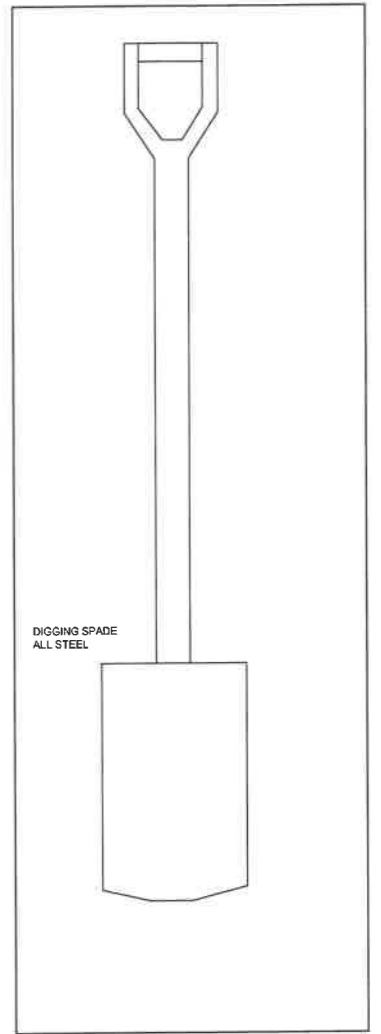
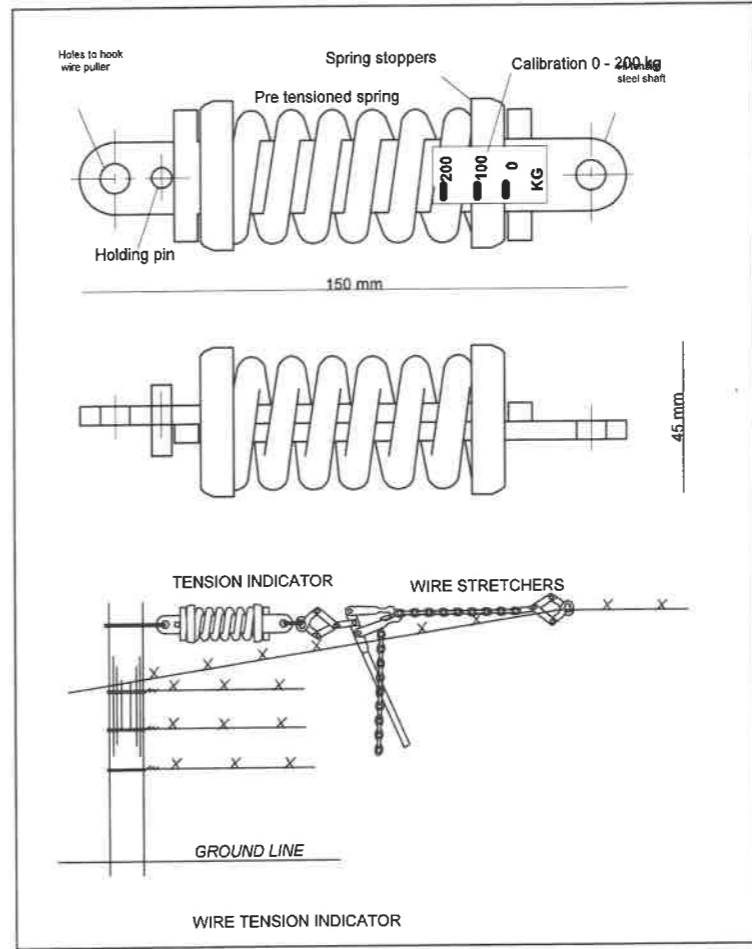
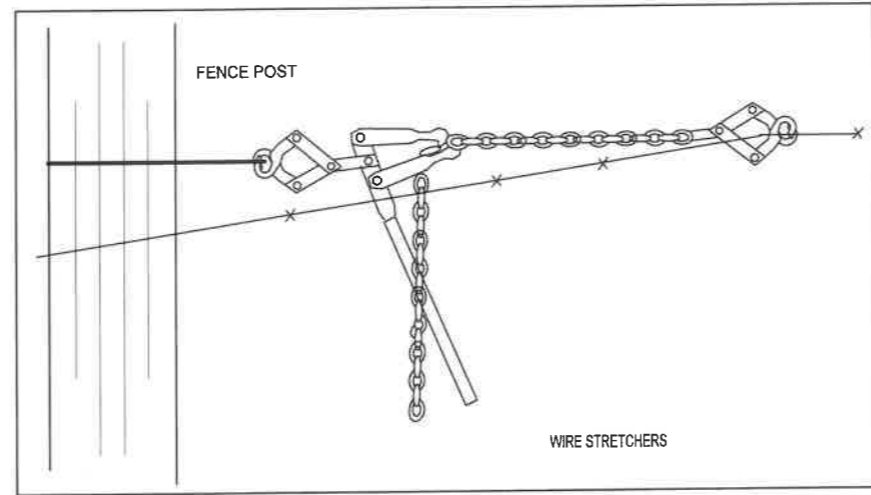
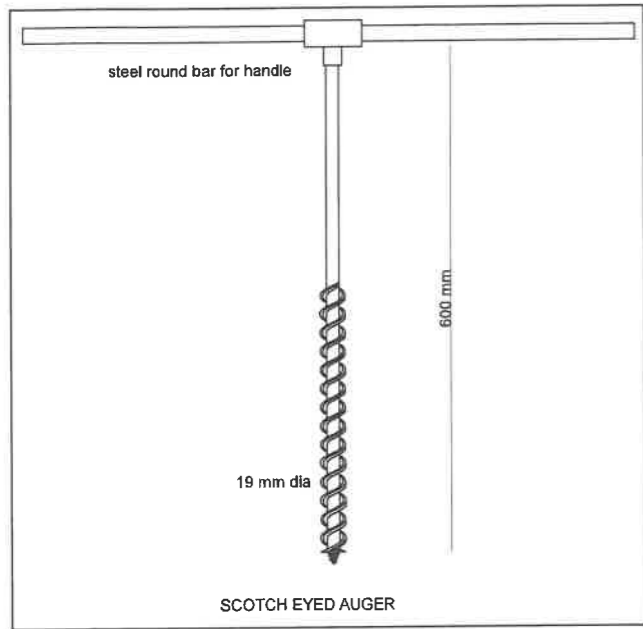


CLOSING OF OPENINGS

CONSTRUCTION TABLE			
SPAN L (m)	No OF STRAINING WIRES	H (m)	No OF LOOPS IN WEAK LINK
10	4	0.2	2
15	4	0.3	2
20	4	0.5	2
25	6	0.6	3
30	6	0.8	3
>30	SPECIAL DESIGN BY THE ENGINEER		

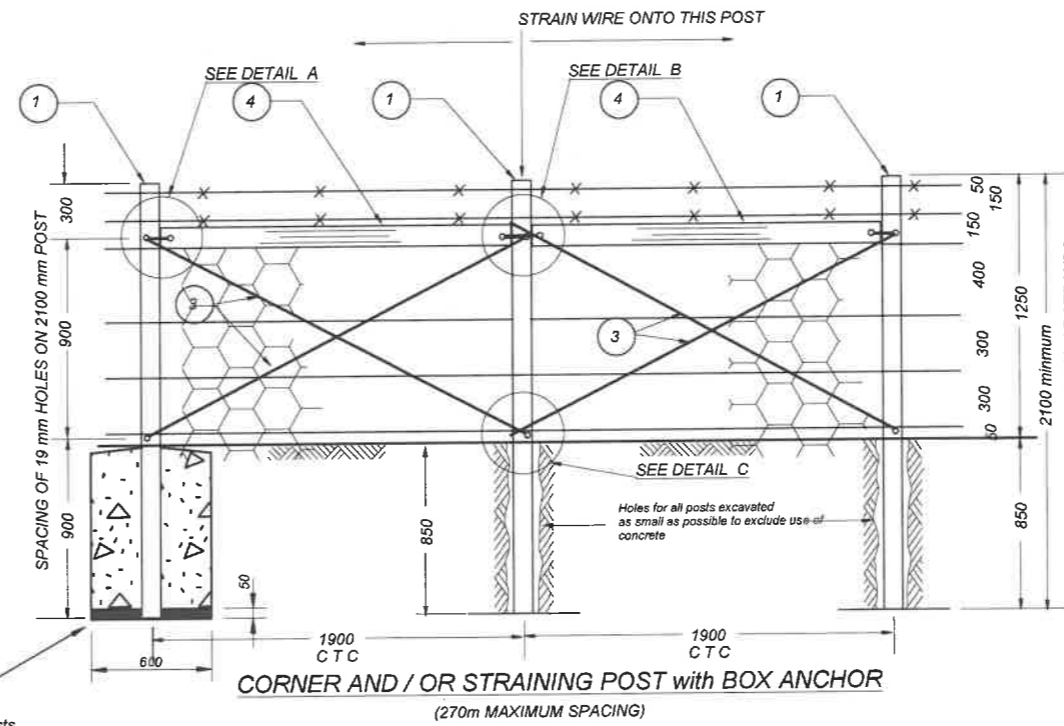
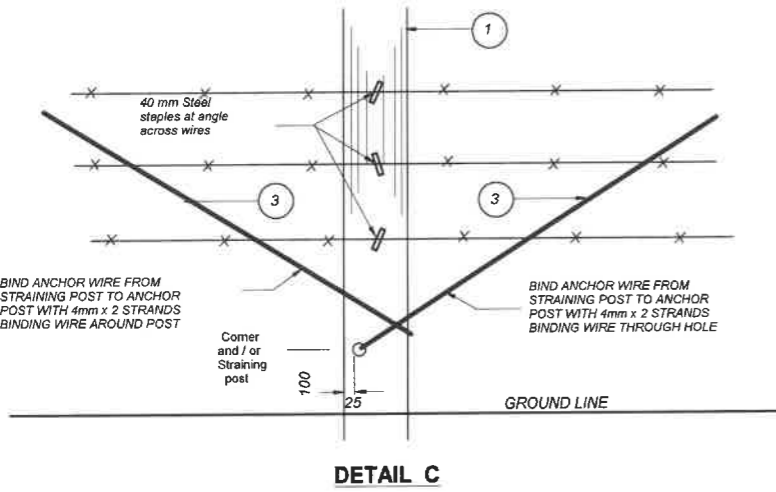
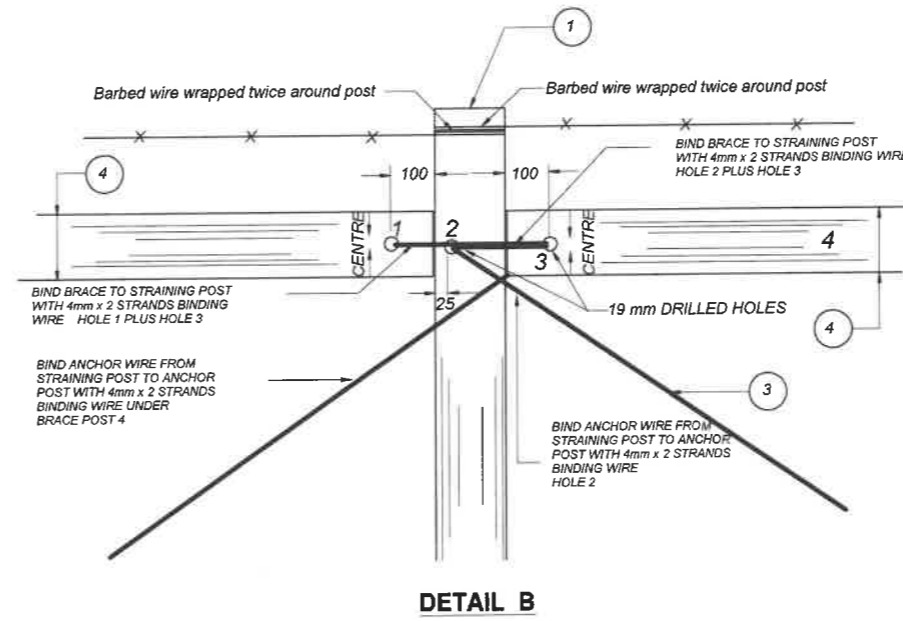
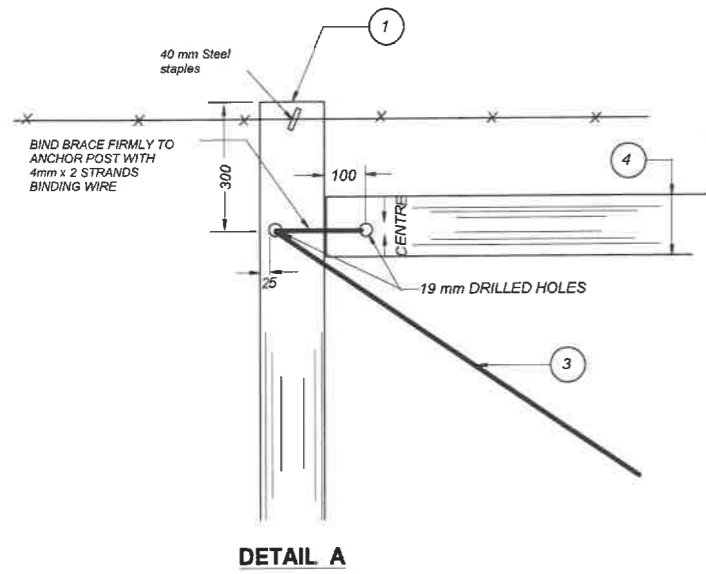
- NOTES :**
- WEAK LINK IN CABLE MAY BE POSITIONED EITHER AT END STANDARDS OR IN CENTRE OF CABLE AS SHOWN. FORM BY LOOPING A STRAINING WIRE THROUGH WIRE HANGERS. NUMBER OF LOOPS ARE TABULATED IN CONSTRUCTION TABLE.
 - WHEN HEIGHT OF CABLE IS LESS THAN 2,0m, WIRE HANGERS MAY BE OMITTED AND NETTING LAPPED HORIZONTALLY.
 - IF LENGTH OF WIRE NETTING EXCEEDS 30m FENCING TO BE DESIGNED BY THE ENGINEER.
- 10 Netting wire, 1.8mm dia, 1200mm x 90mm hexagonal mesh

NO.	SPECIAL NOTES:	S KONDLO (CHIEF ENGINEER)	DEPARTMENT OF RURAL DEVELOPMENT AND AGRARIAN REFORM PROVINCE OF THE EASTERN CAPE	ENGINEERING SERVICES PRIVATE BAG X015 DOHNE ADI STUTTERHEIM 4930	STANDARD STOCK PROOF FENCE	SCALE	INDEX NO.
						NTS	SCMM-03/19/05
						1,4m HIGH - 9 STRAND FENCE	PLAN NO.
						A3 ORIGINAL	SHEET 5 OF 6



NO.	SPECIAL NOTES:	S KONDLO (CHIEF ENGINEER)	DEPARTMENT OF RURAL DEVELOPMENT AND AGRARIAN REFORM PROVINCE OF THE EASTERN CAPE	STANDARD STOCK PROOF FENCE	SCALE	INDEX NO.
					NTS	SCMM-03/19/06
		OCTOBER 2024 (DATE APPROVED)	ENGINEERING SERVICES PRIVATE BAG X015 DOHNE ADI STUTTERHEIM 4930	1,4m HIGH - 9 STRAND FENCE	A3 ORIGINAL	PLAN NO. SHEET 6 OF 6

19.3 STANDARD VERMIN PROOF FENCE (1,2m)



*15MPa concrete on all Corner, straining and gate posts if so ordered by the Engineer, and quantified in Bill of Quantities

*15MPa concrete on all Corner, straining and gate posts if so ordered by the Engineer, and quantified in Bill of Quantities

CORNER WITH BOX ANCHOR

LEGEND

1 125 - 150mm TOP DIAMETER x 2100 mm TREATED TIMBER POST CORNER, STRAINING AND ANCHOR POSTS

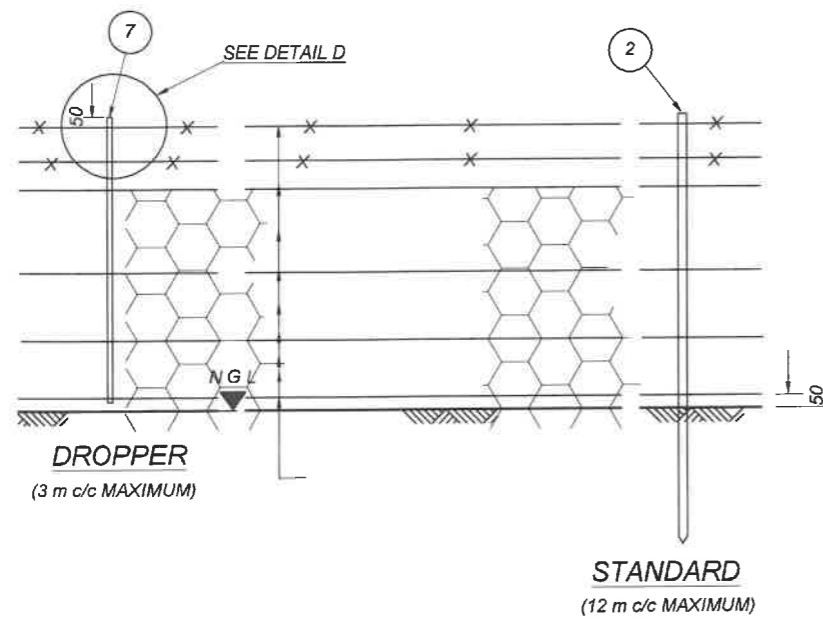
3 4mm x 4 STRANDS TWISTED SOFT GALVANISED BINDING WIRE

4 100 - 125mm TOP DIAMETER x 1800 mm TREATED TIMBER POST BRACES IN BOX ANCHORS

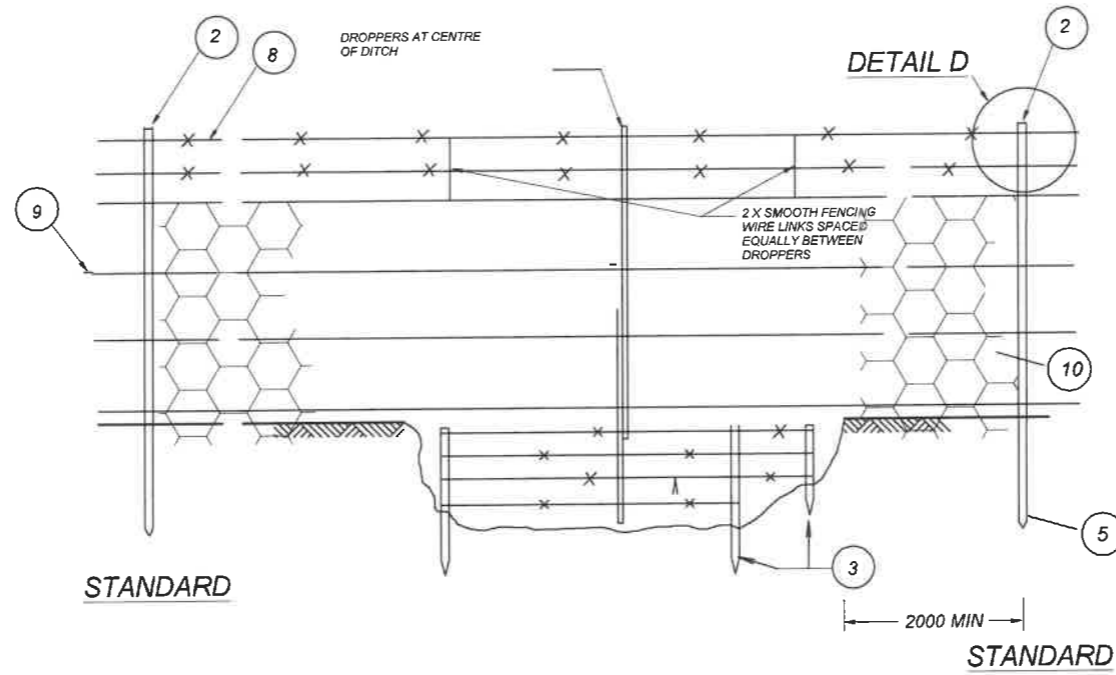
- NOTES:**
- 40 mm STAPLES REQUIRED FOR CORNER POSTS and STRAINING POSTS
 - THIS DRAWING TO BE READ IN CONJUNCTION WITH THE PROJECT PARTICULAR SPECIFICATIONS FOR FENCES

NGL NATURAL GROUND LEVEL

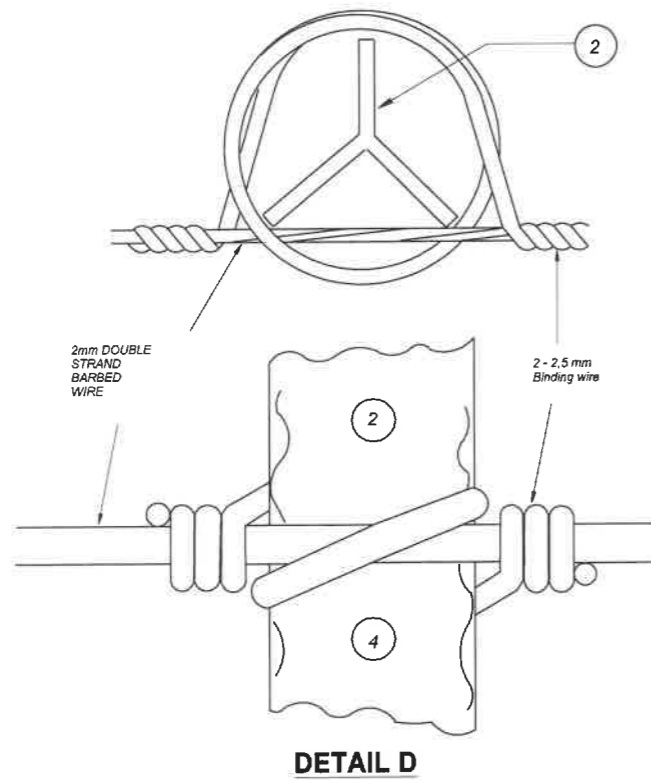
NO.	SPECIAL NOTES:	S KONDLO (CHIEF ENGINEER)	DEPARTMENT OF RURAL DEVELOPMENT AND AGRARIAN REFORM PROVINCE OF THE EASTERN CAPE	STANDARD VERMIN PROOF FENCE	SCALE	INDEX NO.
					NTS	SCMM-03/19/01
		OCTOBER 2024 (DATE APPROVED)	ENGINEERING SERVICES PRIVATE BAG X015 DOHNE ADI STUTTERHEIM 4930	1,2m HIGH - VERMIN PROOF FENCE	A3 ORIGINAL	PLAN NO. SHEET 1 OF 5



STOCK PROOF FENCE



CROSSING CANALS AND TRENCHES



LEGEND

- 1 — 125 - 150mm TOP DIAMETER x 2100 mm TREATED TIMBER POST CORNER, STRAINING AND ANCHOR POSTS
- 2 — 2,0 kg/m x 1800 mm Y SECTION IRON STANDARD
- 3 — 4mm x 4 STRANDS TWISTED SOFT GALVANISED BINDING WIRE
- 4 — 100 - 125mm TOP DIAMETER x 1800 mm TREATED TIMBER POST BRACES IN BOX ANCHORS
- 5 — STANDARDS EMBEDDED IN CLASS 20/19 CONCRETE IF ORDERED BY THE ENGINEER
- 6 — STAKES (DROPPER PROFILE) OF SUITABLE LENGTH DRIVEN FIRMLY INTO SIDES & BED OF TRENCH AT APPROVED SPACINGS. STAKES TO BE ALIGNED WITH & TIED TO DROPPERS WITH WIRE WHERE REQUIRED.
- 7 — 0,56 kg/m x 1250 mm RIDGEBACK PATTERN IRON DROPPER
- 8 — Barbed wire, 2 x 2mm, galvanized, SABS approved
- 9 — High Tensile 2.24mm dia plain wire, galvanized, SABS approved.
- 10 — Netting wire, 1.8mm dia, 1200mm x 90mm hexagonal mesh

NGL NATURAL GROUND LEVEL

NOTES: 1. 40 mm STAPLES REQUIRED FOR CORNER POSTS and STRAINING POSTS
2. THIS DRAWING TO BE READ IN CONJUNCTION WITH THE PROJECT PARTICULAR SPECIFICATIONS FOR FENCES

NO.	SPECIAL NOTES:

S KONDLO
(CHIEF ENGINEER)

OCTOBER 2024
(DATE APPROVED)

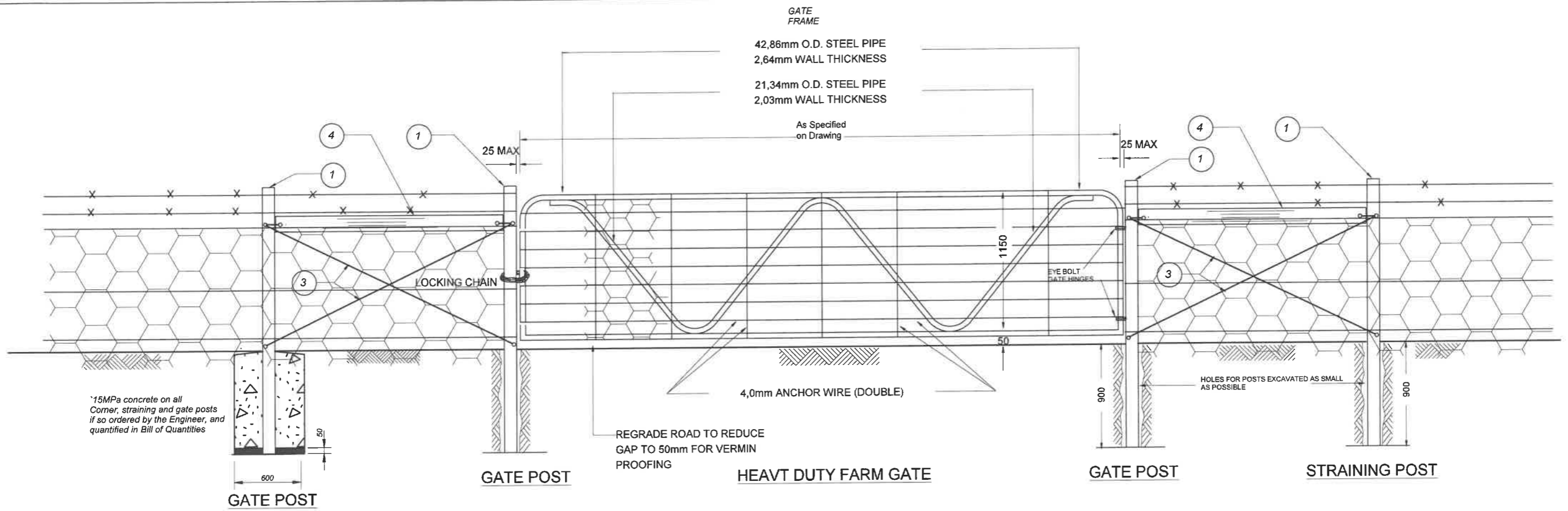
DEPARTMENT OF RURAL DEVELOPMENT AND AGRARIAN REFORM
PROVINCE OF THE EASTERN CAPE

ENGINEERING SERVICES
PRIVATE BAG X015
DOHNE ADI
STUTTERHEIM
4930

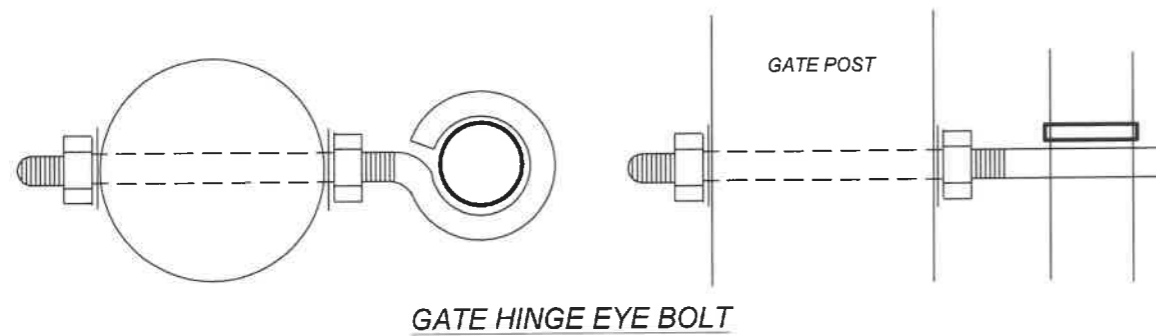
STANDARD VERMIN PROOF FENCE

1,2m HIGH - VERMIN PROOF FENCE

SCALE	INDEX NO.
NTS	SCMM-03/19/02
A3 ORIGINAL	PLAN NO.
	SHEET 2 OF 5



FARM GATES



LEGEND

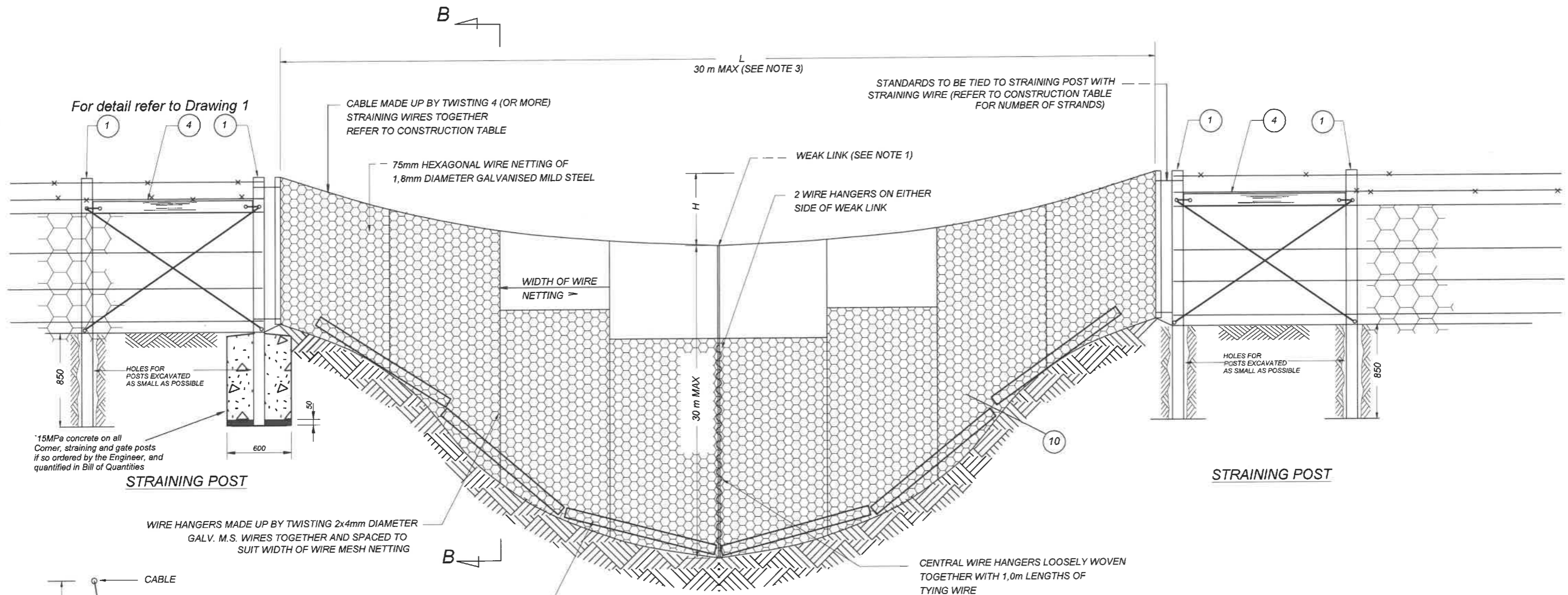
- ① — 125 - 150mm TOP DIAMETER x 2100 mm TREATED TIMBER POST
CORNER, STRAINING AND ANCHOR POSTS
- ③ — 4mm x 4 STRANDS TWISTED SOFT GALVANISED BINDING WIRE
- ④ — 100 - 125mm TOP DIAMETER x 1800 mm TREATED TIMBER POST
BRACES IN BOX ANCHORS

NGL NATURAL GROUND LEVEL

NOTES: 1. 40 mm STAPLES REQUIRED FOR CORNER POSTS and STRAINING POSTS

2. THIS DRAWING TO BE READ IN CONJUNCTION WITH THE PROJECT PARTICULAR SPECIFICATIONS FOR FENCES

NO.	SPECIAL NOTES:	S KONDLO (CHIEF ENGINEER)	DEPARTMENT OF RURAL DEVELOPMENT AND AGRARIAN REFORM PROVINCE OF THE EASTERN CAPE	STANDARD VERMIN PROOF FENCE	SCALE NTS	INDEX NO. SCMM-03/19/03
				1,2m HIGH - VERMIN PROOF FENCE	A3 ORIGINAL	PLAN NO. SHEET 3 OF 5
		OCTOBER 2024 (DATE APPROVED)	ENGINEERING SERVICES PRIVATE BAG X015 DOHNE ADI STUTTERHEIM 4930			

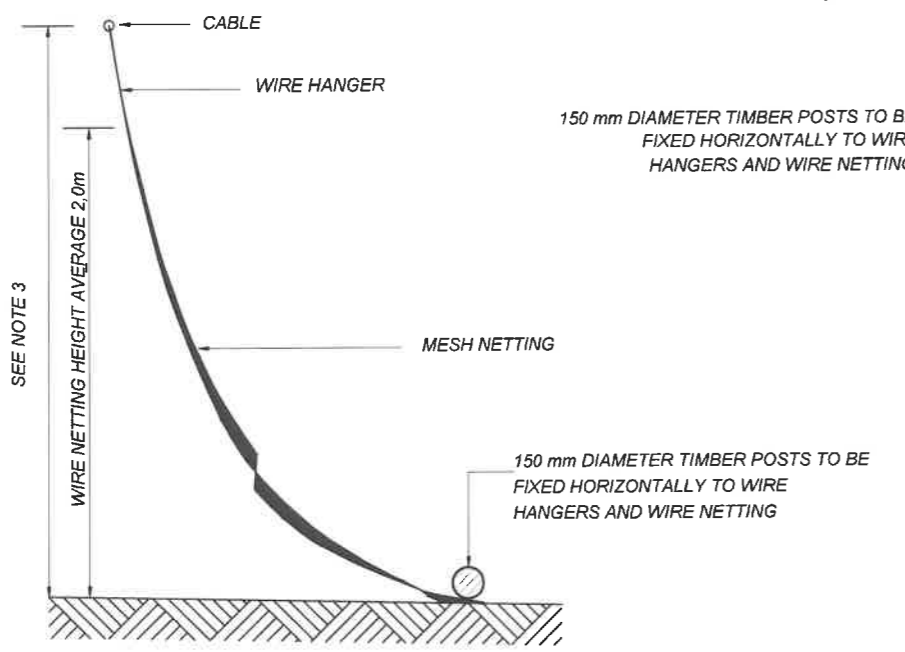


ELEVATION

CLOSING OF OPENINGS

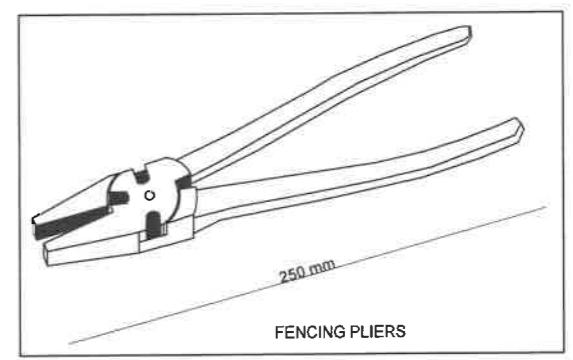
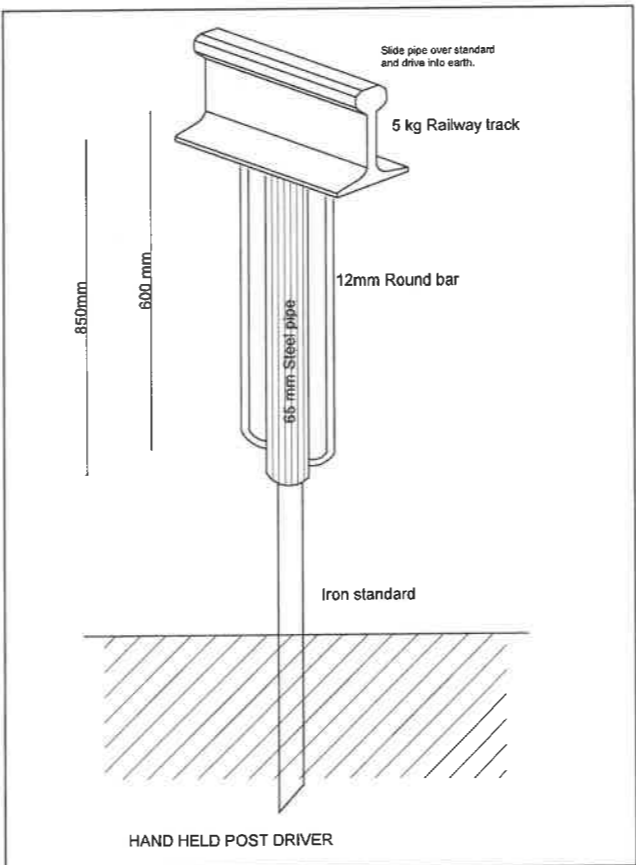
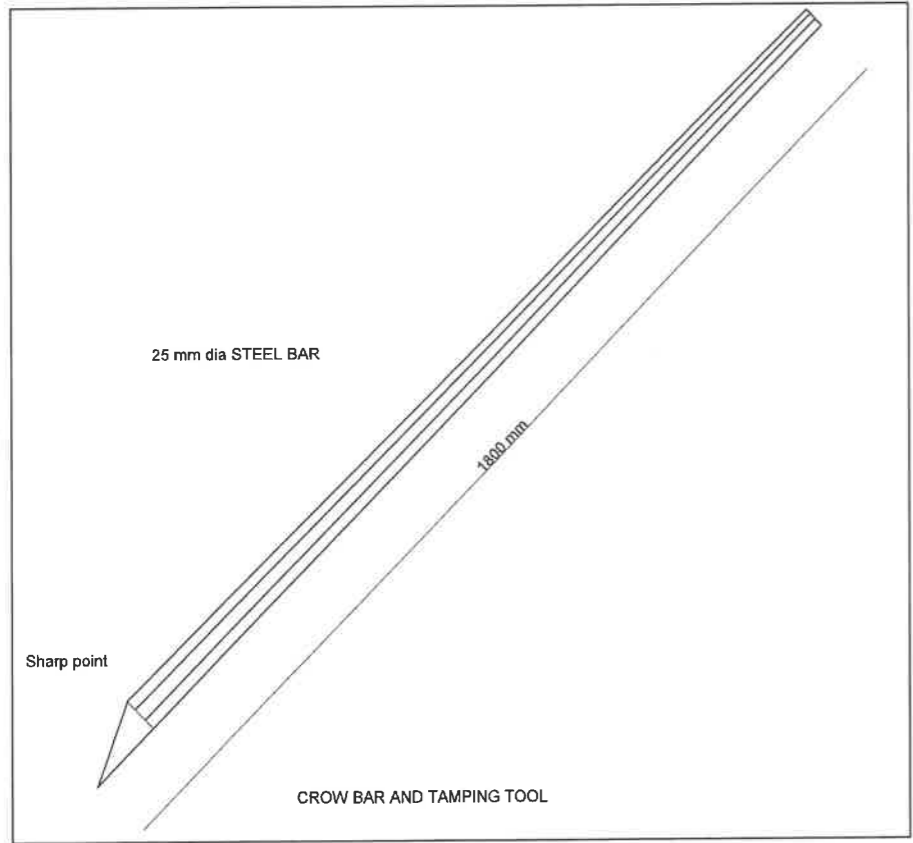
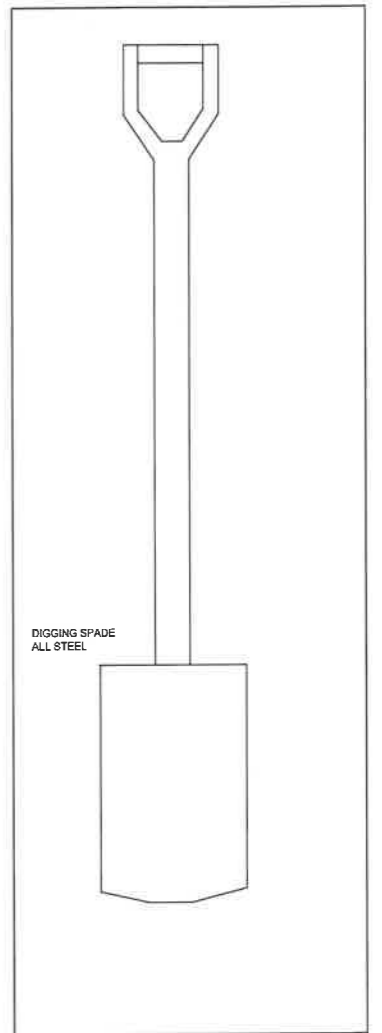
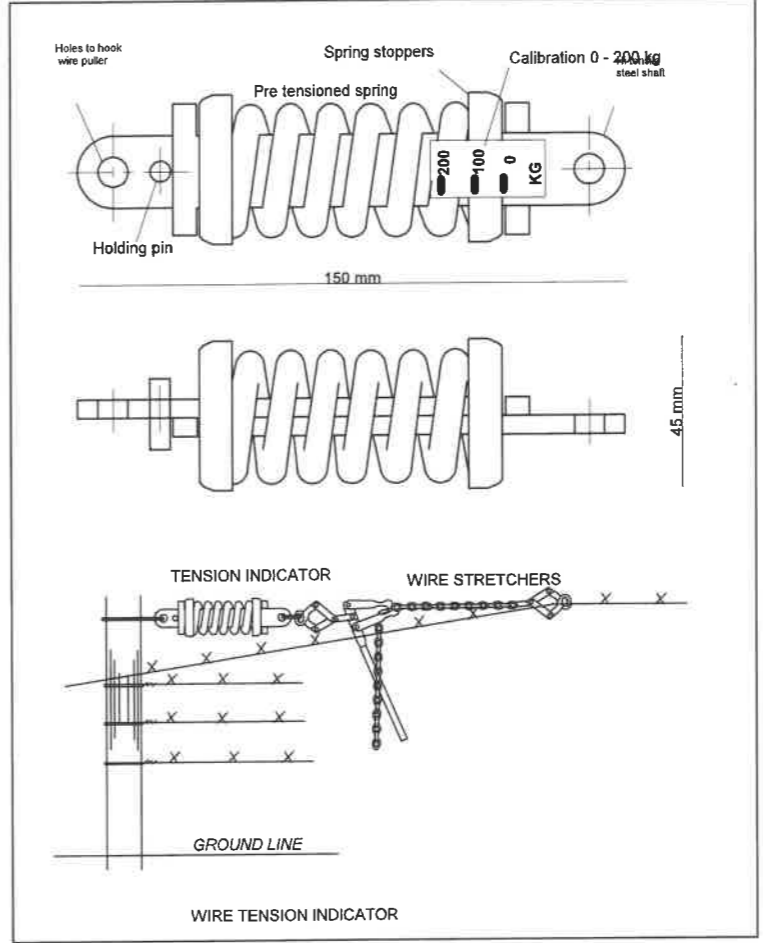
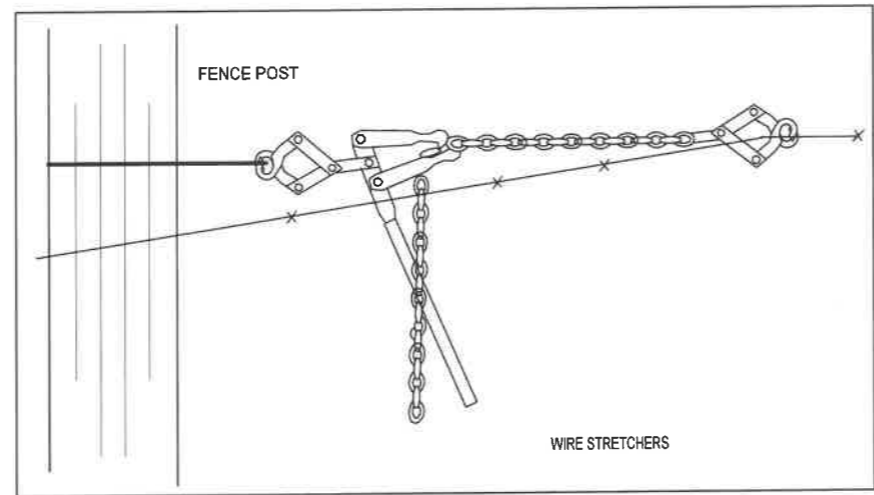
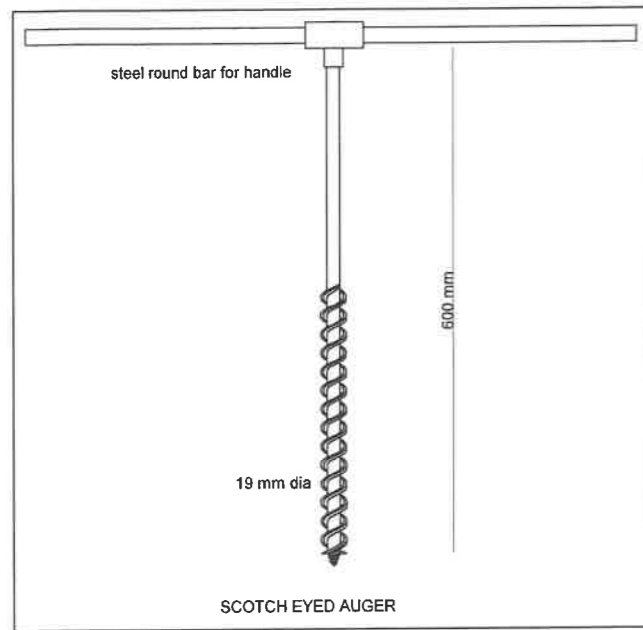
CONSTRUCTION TABLE			
SPAN L (m)	No OF STRAINING WIRES	H (m)	No OF LOOPS IN WEAK LINK
10	4	0.2	2
15	4	0.3	2
20	4	0.5	2
25	6	0.6	3
30	6	0.8	3
>30	SPECIAL DESIGN BY THE ENGINEER		

- NOTES :**
- WEAK LINK IN CABLE MAY BE POSITIONED EITHER AT END STANDARDS OR IN CENTRE OF CABLE AS SHOWN. FORM BY LOOPING A STRAINING WIRE THROUGH WIRE HANGERS. NUMBER OF LOOPS ARE TABULATED IN CONSTRUCTION TABLE.
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 - IF LENGTH OF WIRE NETTING EXCEEDS 30m FENCING TO BE DESIGNED BY THE ENGINEER.
- 10 — Netting wire, 1.8mm dia, 1200mm x 90mm hexagonal mesh



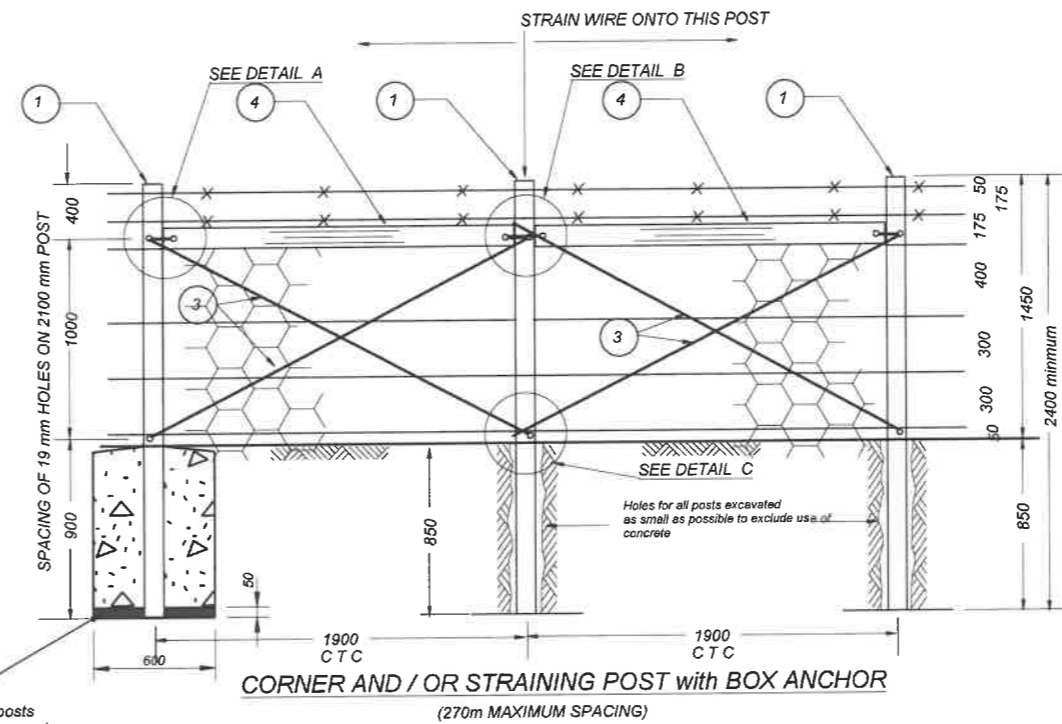
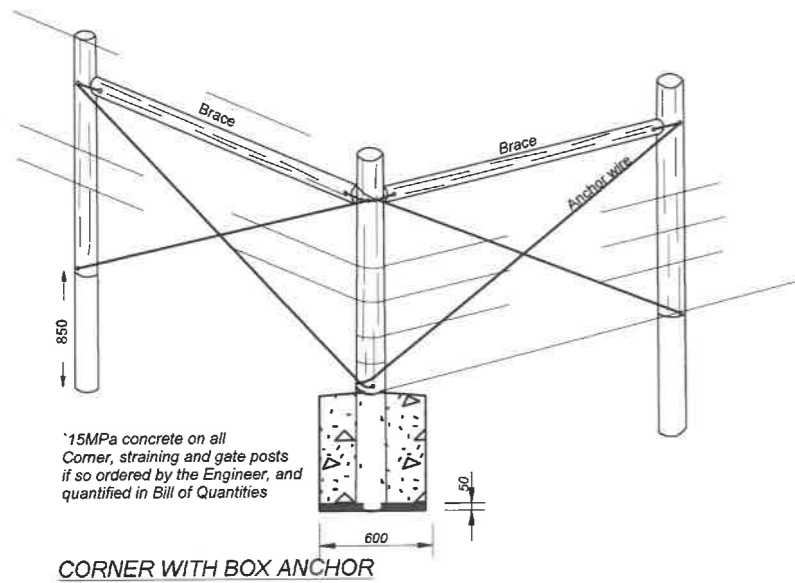
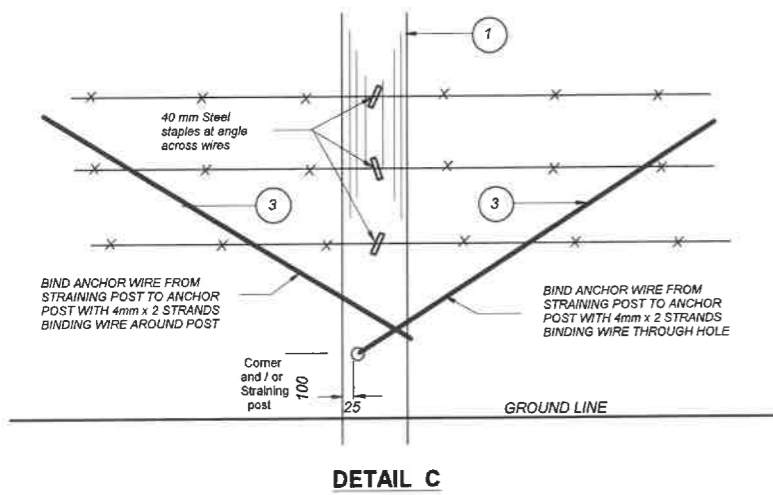
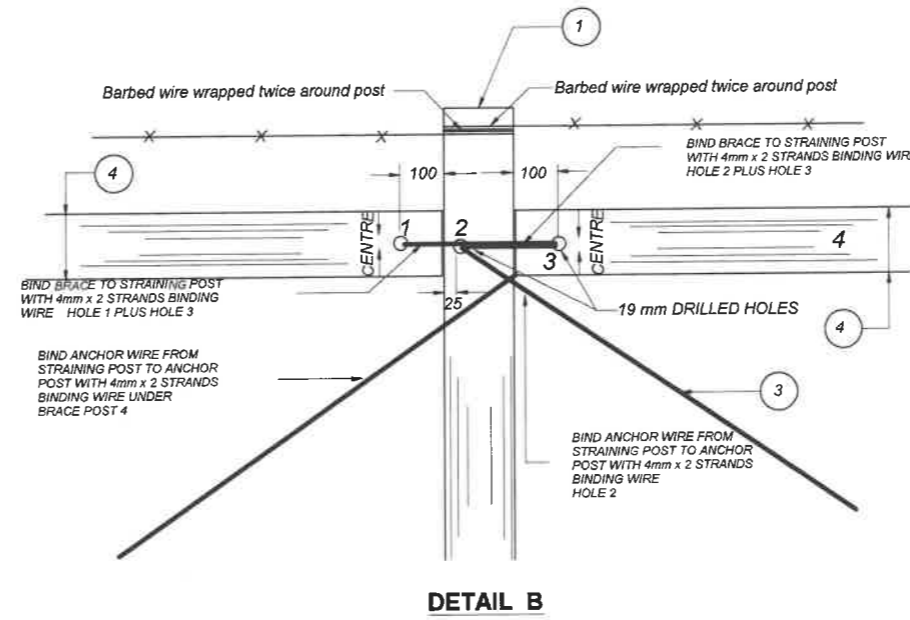
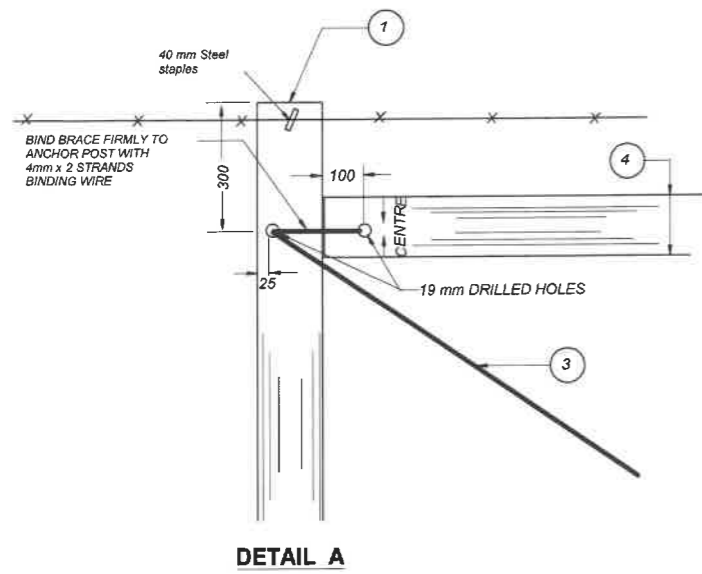
SECTION B-B

NO.	SPECIAL NOTES:	S KONDLO (CHIEF ENGINEER)	DEPARTMENT OF RURAL DEVELOPMENT AND AGRARIAN REFORM PROVINCE OF THE EASTERN CAPE	STANDARD VERMIN PROOF FENCE	SCALE	INDEX NO.
					OCTOBER 2024 (DATE APPROVED)	ENGINEERING SERVICES PRIVATE BAG X015 DOHNE ADI STUTTERHEIM 4930
					A3 ORIGINAL	PLAN NO. SHEET 4 OF 5



NO.	SPECIAL NOTES:	S KONDLO (CHIEF ENGINEER)	DEPARTMENT OF RURAL DEVELOPMENT AND AGRARIAN REFORM PROVINCE OF THE EASTERN CAPE	STANDARD VERMIN PROOF FENCE	SCALE	INDEX NO.			
					OCTOBER 2024 (DATE APPROVED)	ENGINEERING SERVICES PRIVATE BAG X015 DOHNE ADI STUTTERHEIM 4930	NTS	SCMM-03/19/05	
							1,2m HIGH - VERMIN PROOF FENCE	A3 ORIGINAL	PLAN NO.
									SHEET 5 OF 5

19.3 STANDARD VERMIN PROOF FENCE (1,4m)

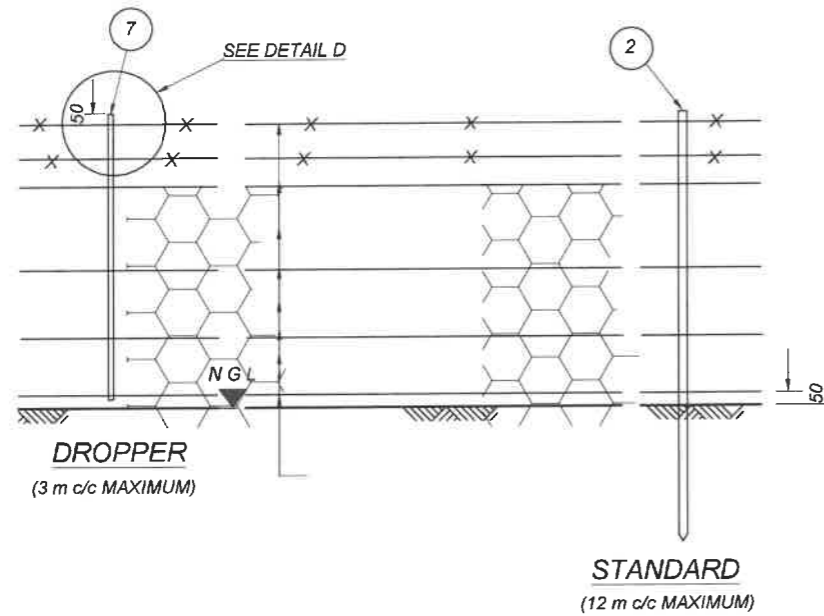


LEGEND

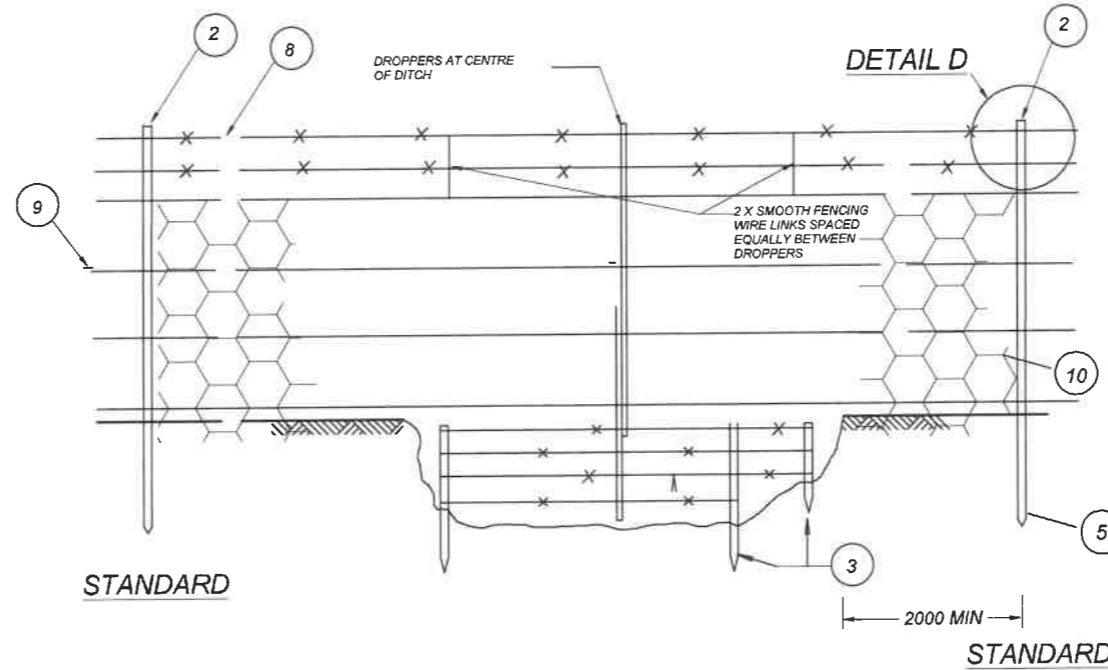
- 1 125 - 150mm TOP DIAMETER x 2400 mm TREATED TIMBER POST CORNER, STRAINING AND ANCHOR POSTS
- 3 4mm x 4 STRANDS TWISTED SOFT GALVANISED BINDING WIRE
- 4 100 - 125mm TOP DIAMETER x 1800 mm TREATED TIMBER POST BRACES IN BOX ANCHORS

- NOTES:**
1. 40 mm STAPLES REQUIRED FOR CORNER POSTS and STRAINING POSTS
 2. THIS DRAWING TO BE READ IN CONJUNCTION WITH THE PROJECT PARTICULAR SPECIFICATIONS FOR FENCES
- NGL NATURAL GROUND LEVEL

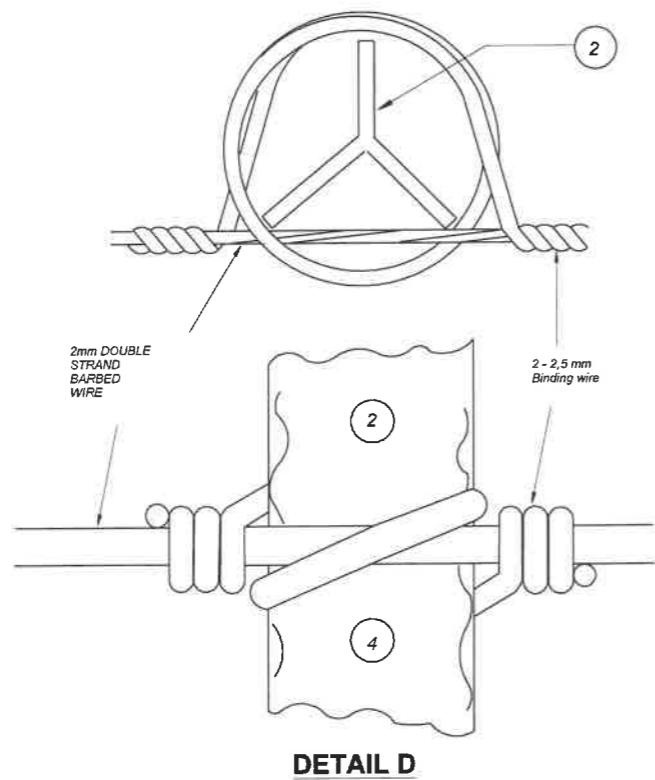
NO.	SPECIAL NOTES:	S KONDLO (CHIEF ENGINEER)	DEPARTMENT OF RURAL DEVELOPMENT AND AGRARIAN REFORM PROVINCE OF THE EASTERN CAPE	STANDARD VERMIN PROOF FENCE	SCALE NTS	INDEX NO. SCMM-03/19/01
		OCTOBER 2024 (DATE APPROVED)	ENGINEERING SERVICES PRIVATE BAG X015 DOHNE ADI STUTTERHEIM 4930	1,4m HIGH - VERMIN PROOF FENCE	A3 ORIGINAL	PLAN NO. SHEET 1 OF 5



STOCK PROOF FENCE



CROSSING CANALS AND TRENCHES



DETAIL D

LEGEND

- 1 — 125 - 150mm TOP DIAMETER x 2400 mm TREATED TIMBER POST CORNER, STRAINING AND ANCHOR POSTS
- 2 — 2,0 kg/m x 1800 mm Y SECTION IRON STANDARD
- 3 — 4mm x 4 STRANDS TWISTED SOFT GALVANISED BINDING WIRE
- 4 — 100 - 125mm TOP DIAMETER x 1800 mm TREATED TIMBER POST BRACES IN BOX ANCHORS
- 5 — STANDARDS EMBEDDED IN CLASS 20/19 CONCRETE IF ORDERED BY THE ENGINEER
- 6 — STAKES (DROPPER PROFILE) OF SUITABLE LENGTH DRIVEN FIRMLY INTO SIDES & BED OF TRENCH AT APPROVED SPACINGS. STAKES TO BE ALIGNED WITH & TIED TO DROPPERS WITH WIRE WHERE REQUIRED.
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- 8 — Barbed wire, 2 x 2mm, galvanized, SABS approved
- 9 — High Tensile 2.24mm dia plain wire, galvanized, SABS approved.
- 10 — Netting wire, 1.8mm dia, 1200mm x 90mm hexagonal mesh

NGL NATURAL GROUND LEVEL

NOTES: 1. 40 mm STAPLES REQUIRED FOR CORNER POSTS and STRAINING POSTS
 2. THIS DRAWING TO BE READ IN CONJUNCTION WITH THE PROJECT PARTICULAR SPECIFICATIONS FOR FENCES

NO.	SPECIAL NOTES:

S KONDLO
(CHIEF ENGINEER)

OCTOBER 2024
(DATE APPROVED)

**DEPARTMENT OF RURAL DEVELOPMENT AND AGRARIAN REFORM
PROVINCE OF THE EASTERN CAPE**

ENGINEERING SERVICES
PRIVATE BAG X015
DOHNE ADI
STUTTERHEIM
4930

STANDARD VERMIN PROOF FENCE

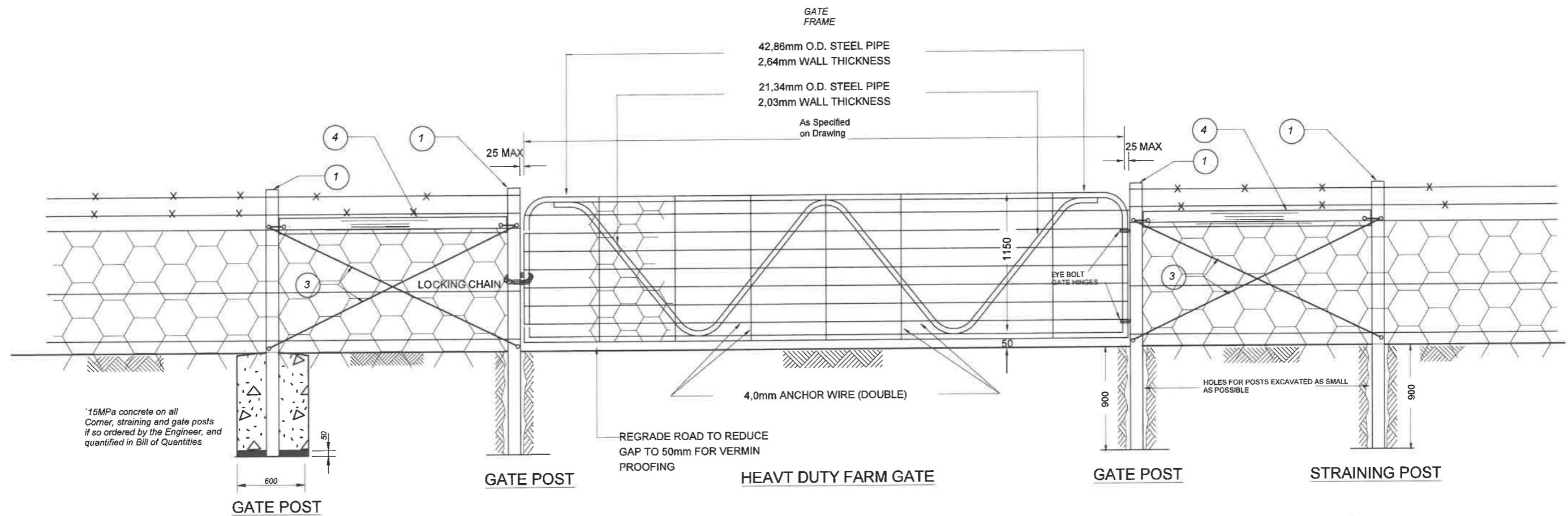
1,4m HIGH - VERMIN PROOF FENCE

SCALE
NTS

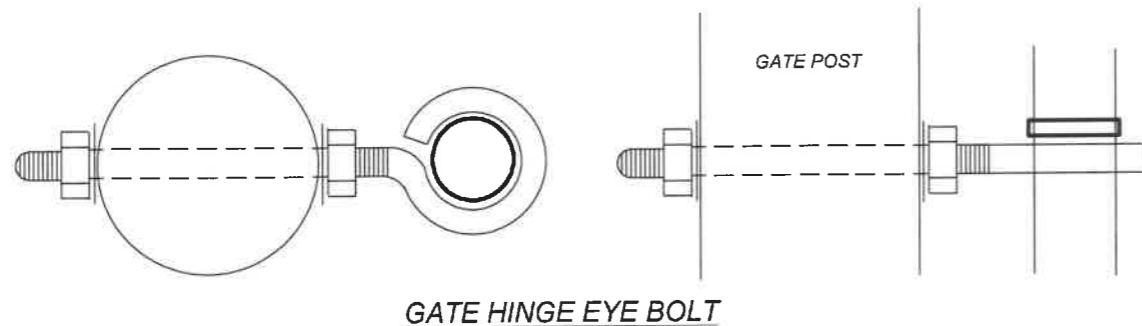
A3 ORIGINAL

INDEX NO.
SCMM-03/19/02

PLAN NO.
SHEET 2 OF 5



FARM GATES



LEGEND

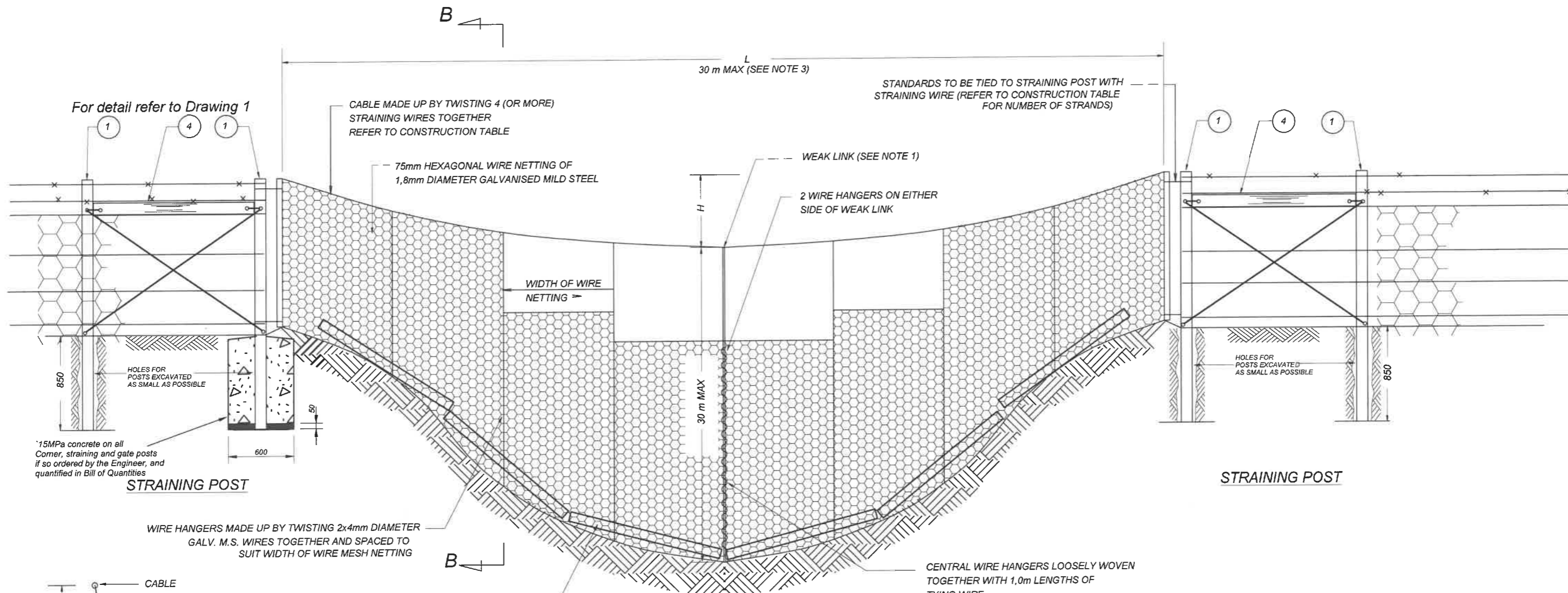
- ① — 125 - 150mm TOP DIAMETER x 2400 mm TREATED TIMBER POST
CORNER, STRAINING AND ANCHOR POSTS
- ③ — 4mm x 4 STRANDS TWISTED SOFT GALVANISED BINDING WIRE
- ④ — 100 - 125mm TOP DIAMETER x 1800 mm TREATED TIMBER POST
BRACES IN BOX ANCHORS

NGL NATURAL GROUND LEVEL

NOTES: 1. 40 mm STAPLES REQUIRED FOR CORNER POSTS and STRAINING POSTS

2. THIS DRAWING TO BE READ IN CONJUNCTION WITH THE PROJECT PARTICULAR SPECIFICATIONS FOR FENCES

NO.	SPECIAL NOTES:	S KONDLO (CHIEF ENGINEER)	DEPARTMENT OF RURAL DEVELOPMENT AND AGRARIAN REFORM PROVINCE OF THE EASTERN CAPE	STANDARD VERMIN PROOF FENCE	SCALE	INDEX NO.
			ENGINEERING SERVICES PRIVATE BAG X015 DOHNE ADI STUTTERHEIM 4930	1,4m HIGH - VERMIN PROOF FENCE	NTS	SCMM-03/19/03
		OCTOBER 2024 (DATE APPROVED)			A3 ORIGINAL	PLAN NO. SHEET 3 OF 5

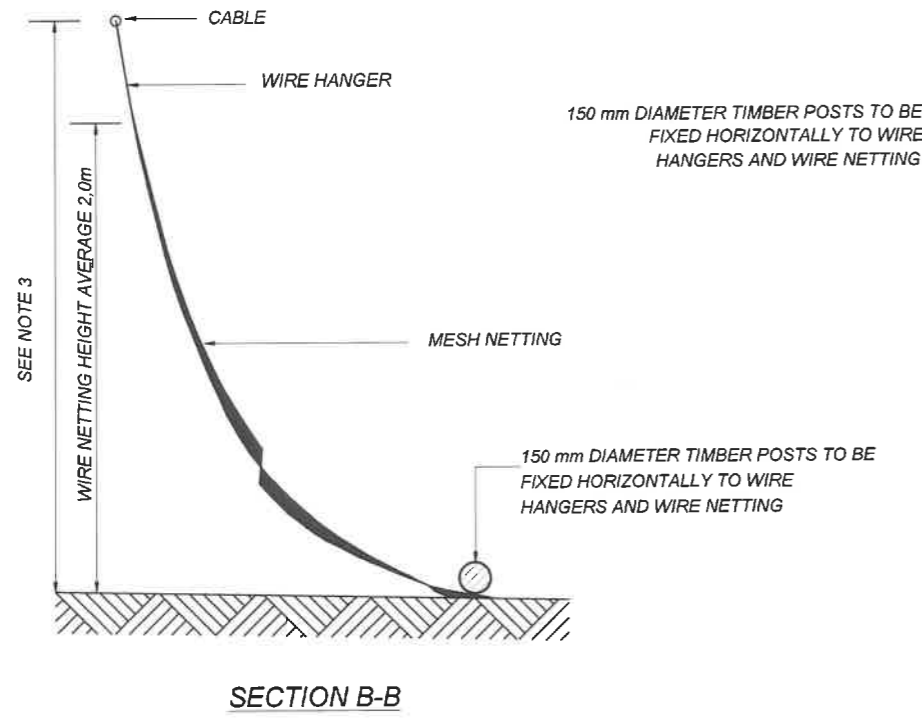


ELEVATION

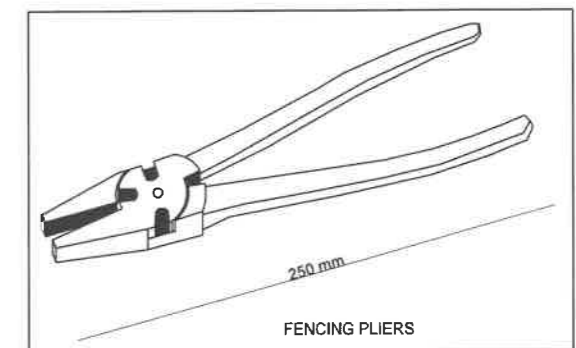
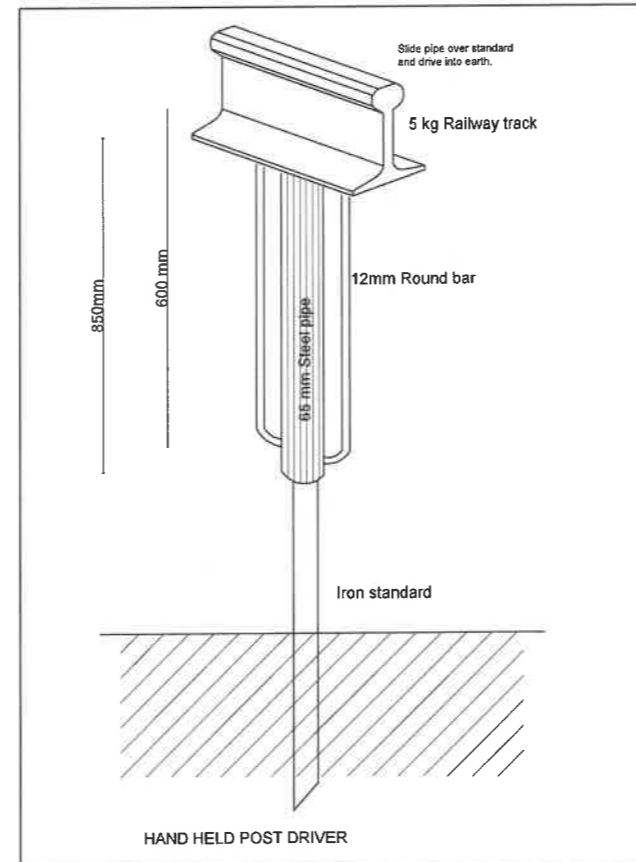
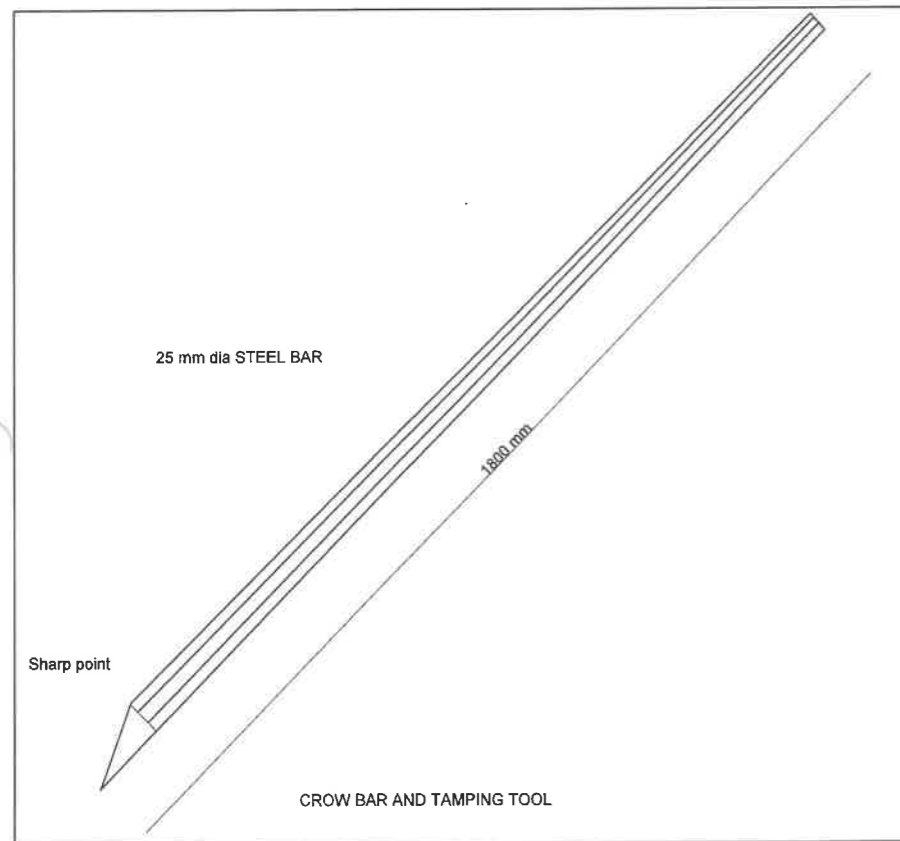
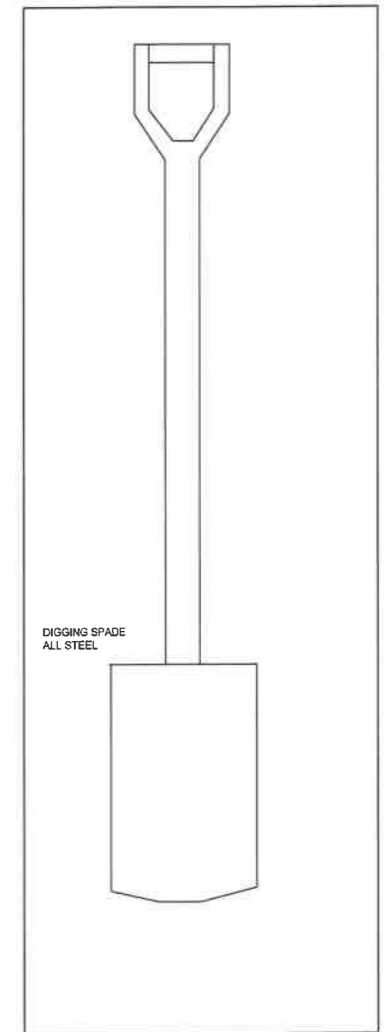
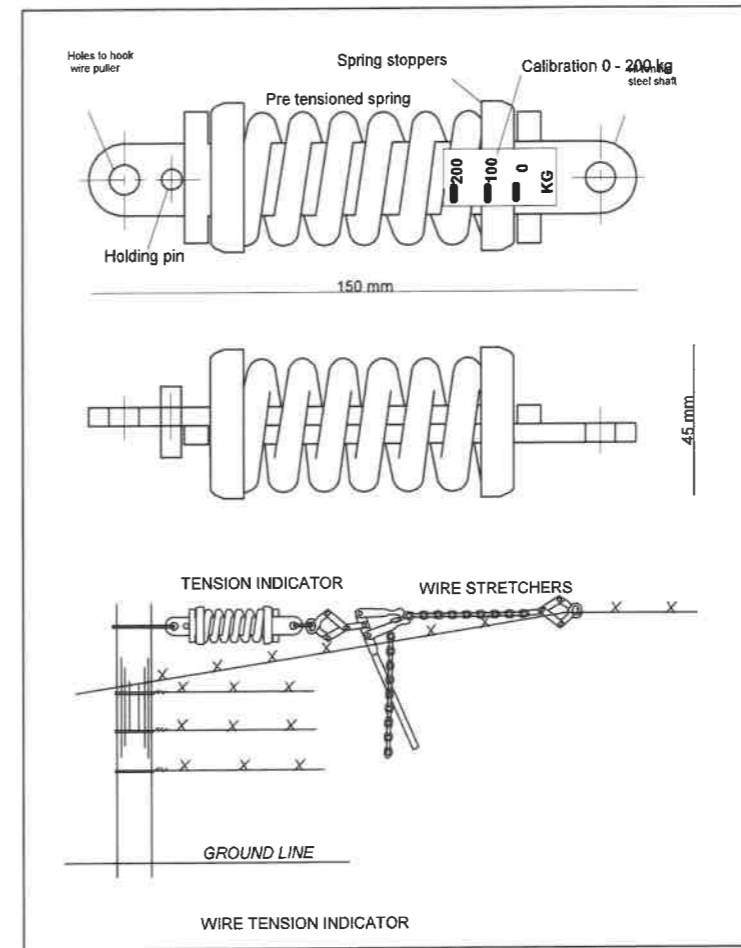
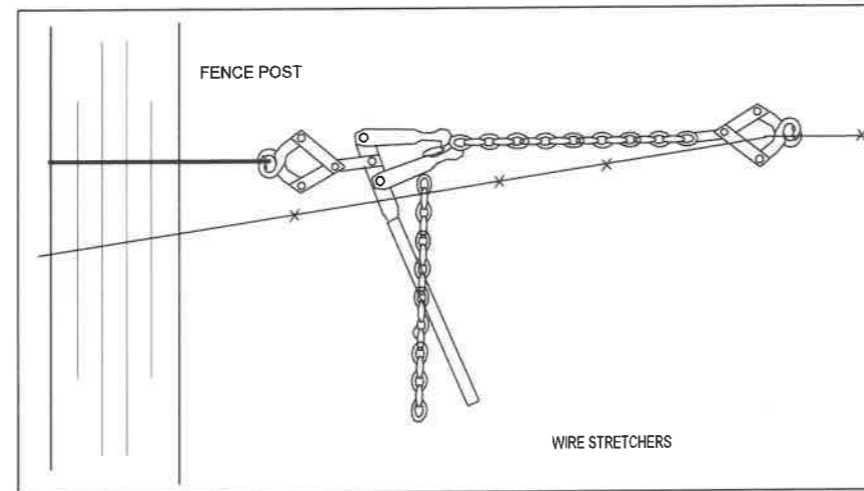
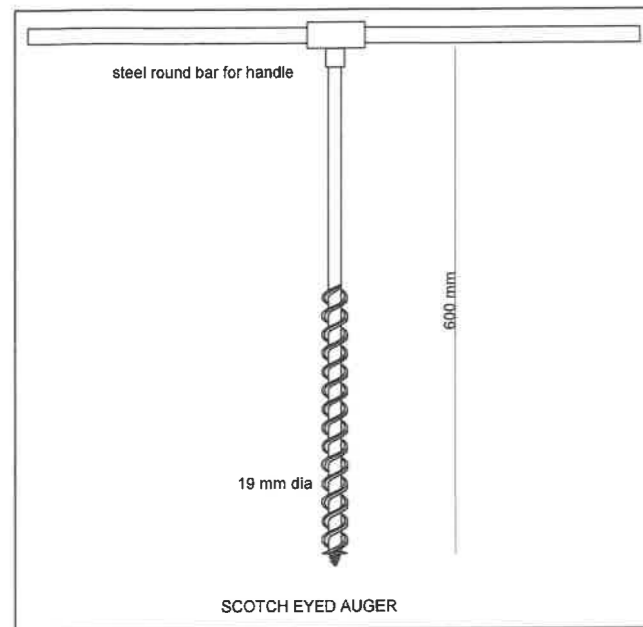
CLOSING OF OPENINGS

CONSTRUCTION TABLE			
SPAN L (m)	No OF STRAINING WIRES	H (m)	No OF LOOPS IN WEAK LINK
10	4	0.2	2
15	4	0.3	2
20	4	0.5	2
25	6	0.6	3
30	6	0.8	3
>30	SPECIAL DESIGN BY THE ENGINEER		

- NOTES :**
1. WEAK LINK IN CABLE MAY BE POSITIONED EITHER AT END STANDARDS OR IN CENTRE OF CABLE AS SHOWN. FORM BY LOOPING A STRAINING WIRE THROUGH WIRE HANGERS. NUMBER OF LOOPS ARE TABULATED IN CONSTRUCTION TABLE.
 2. WHEN HEIGHT OF CABLE IS LESS THAN 2,0m, WIRE HANGERS MAY BE OMITTED AND NETTING LAPPED HORIZONTALLY.
 3. IF LENGTH OF WIRE NETTING EXCEEDS 30m FENCING TO BE DESIGNED BY THE ENGINEER.

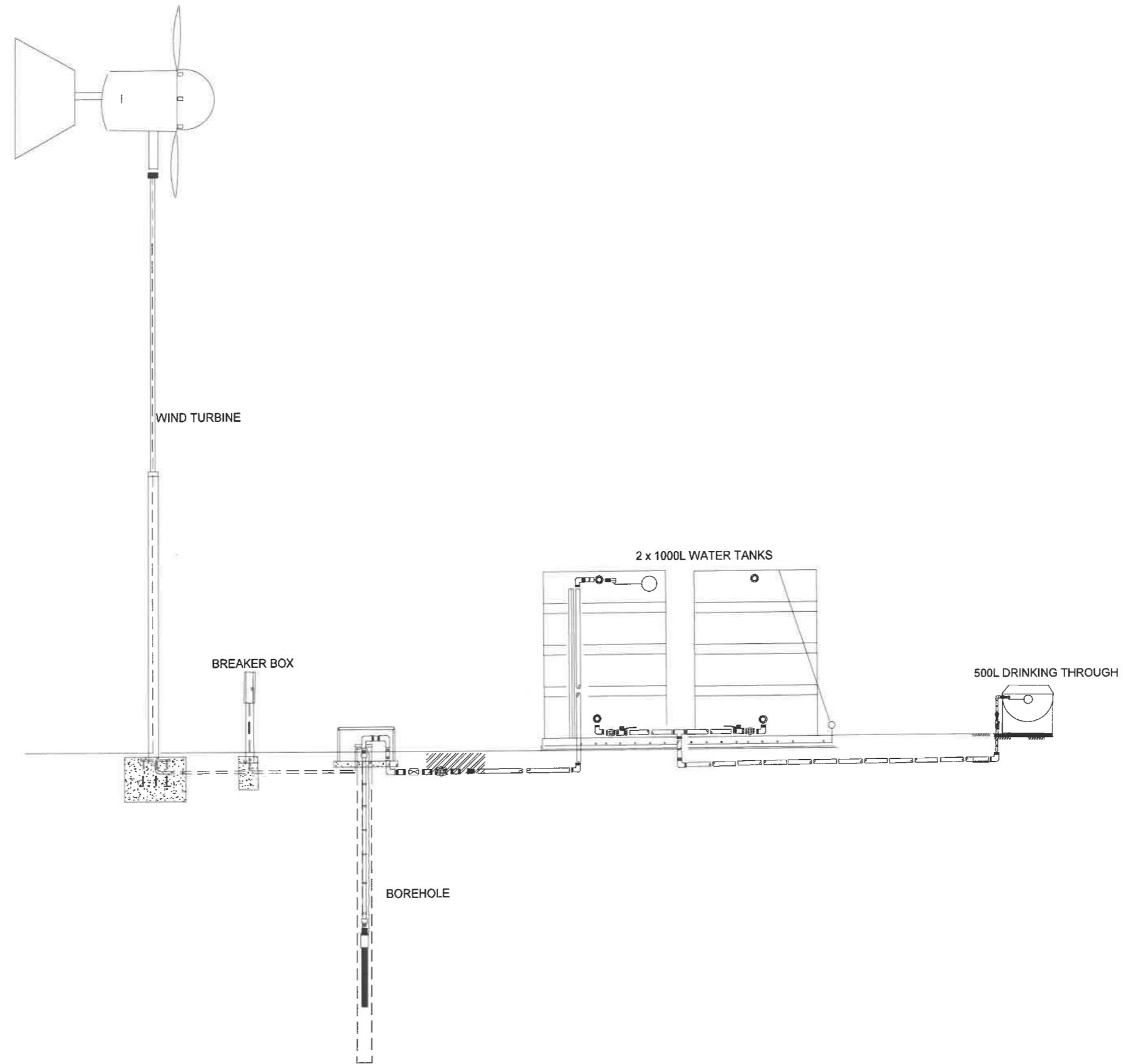


NO.	SPECIAL NOTES:	S KONDLO (CHIEF ENGINEER)	DEPARTMENT OF RURAL DEVELOPMENT AND AGRARIAN REFORM PROVINCE OF THE EASTERN CAPE	STANDARD VERMIN PROOF FENCE	SCALE NTS	INDEX NO. SCMM-03/19/04
		OCTOBER 2024 (DATE APPROVED)	ENGINEERING SERVICES PRIVATE BAG X015 DOHNE ADI STUTTERHEIM 4930	1,4m HIGH - VERMIN PROOF FENCE	A3 ORIGINAL	PLAN NO. SHEET 4 OF 5

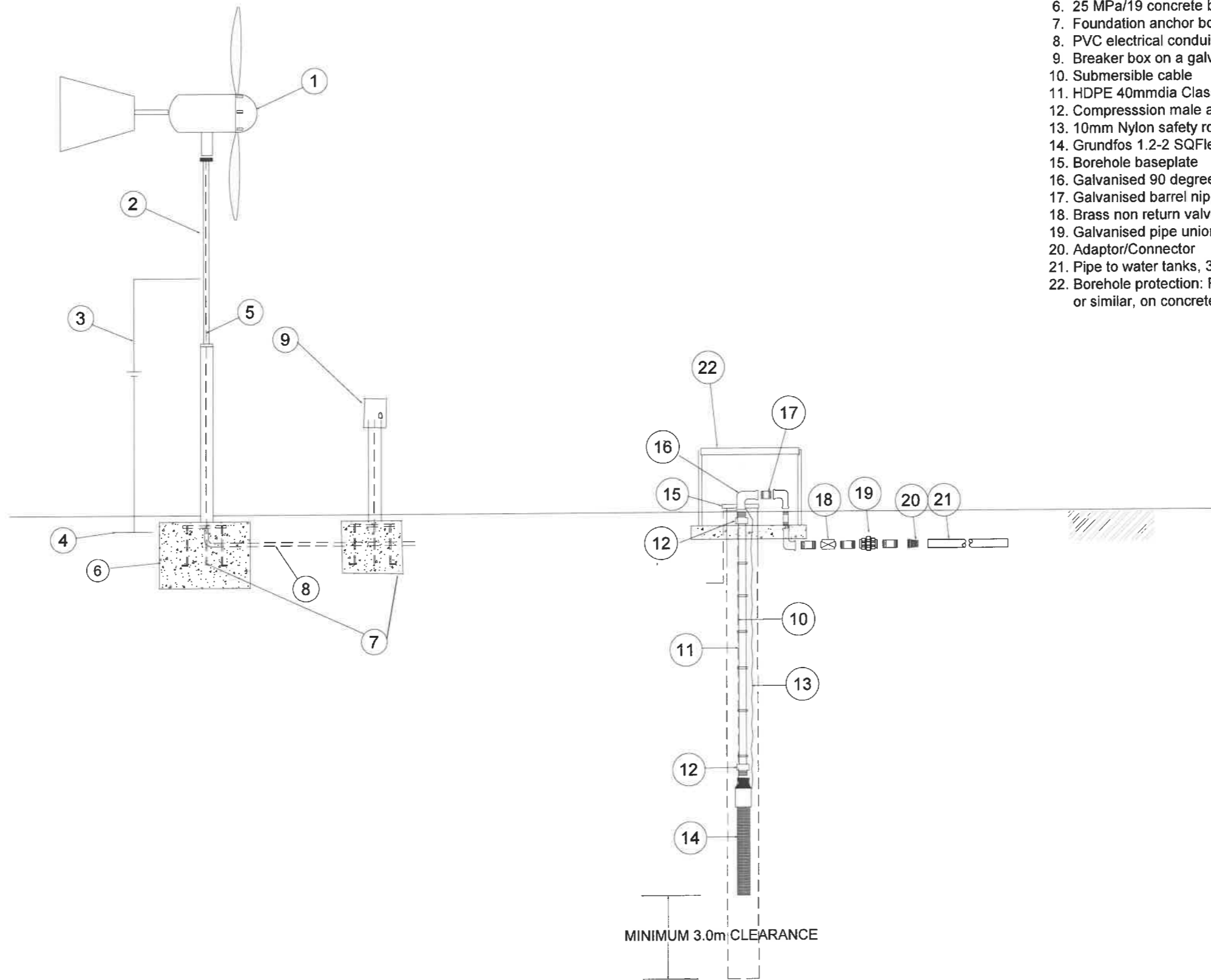


NO.	SPECIAL NOTES:	S KONDLO (CHIEF ENGINEER) OCTOBER 2024 (DATE APPROVED)	DEPARTMENT OF RURAL DEVELOPMENT AND AGRARIAN REFORM PROVINCE OF THE EASTERN CAPE ENGINEERING SERVICES PRIVATE BAG X015 DOHNE ADI STUTTERHEIM 4930	STANDARD VERMIN PROOF FENCE	SCALE	INDEX NO.		
					NTS	SCMM-03/19/05		
						1,4m HIGH - VERMIN PROOF FENCE	A3 ORIGINAL	PLAN NO.
								SHEET 5 OF 5

21 STANDARD STOCK WATER SYSTEM



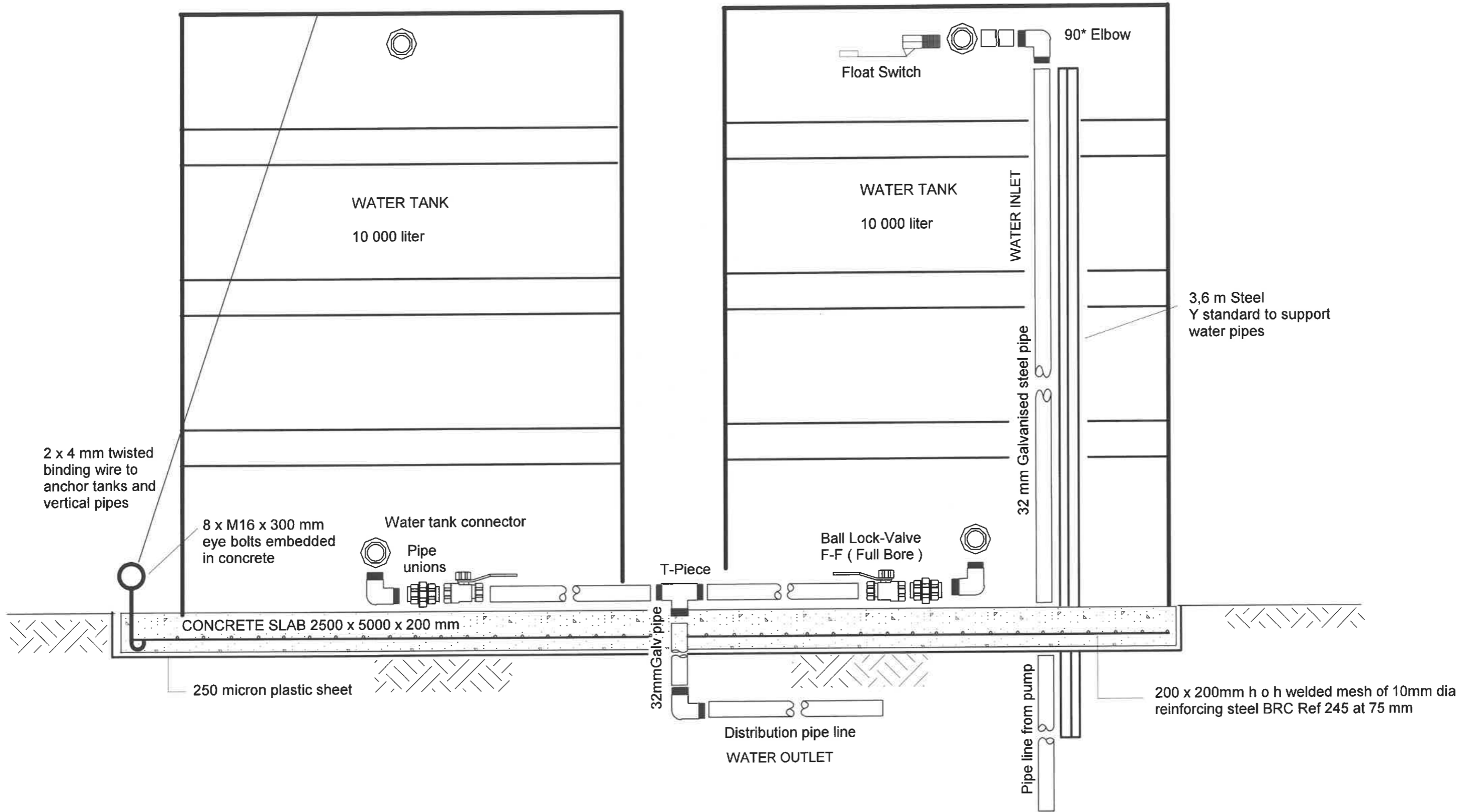
NO.	SPECIAL NOTES:	S KONDLO (CHIEF ENGINEER)	DEPARTMENT OF RURAL DEVELOPMENT AND AGRARIAN REFORM PROVINCE OF THE EASTERN CAPE	STOCK WATER SYSTEM	SCALE	INDEX NO.
					NTS	SCMM-03/21/01
		OCTOBER 2024 (DATE APPROVED)	ENGINEERING SERVICES PRIVATE BAG X015 DOHNE ADI STUTTERHEIM 4930	SCHEMATIC LAYOUT	A3 ORIGINAL	PLAN NO. SHEET 1 OF 5



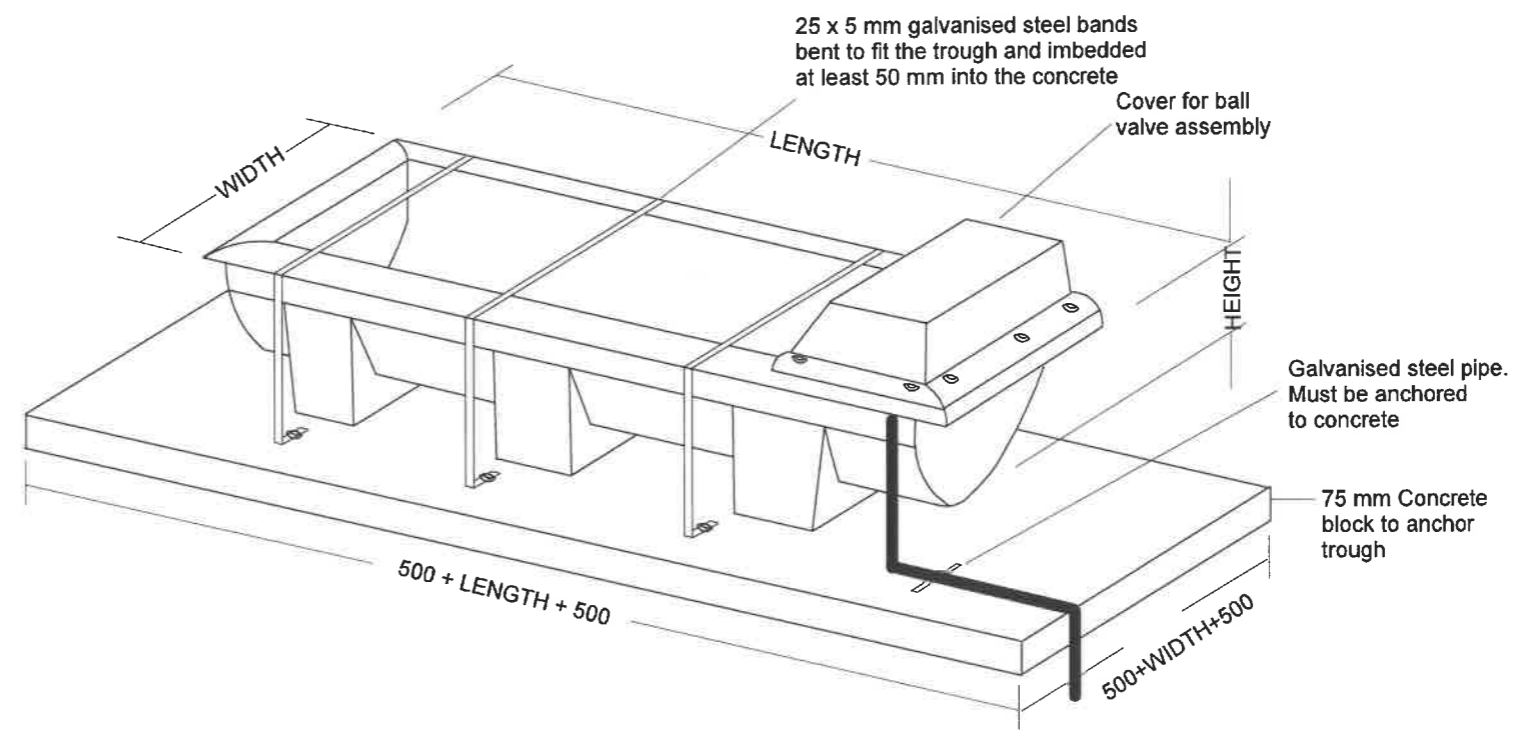
1. Turbine head
2. Turbine Tower 12 m
4. Copper solid rod 2.5 m
5. Two core 10 mm copper cable
6. 25 MPa/19 concrete block 1.65 x 1.65 x 1m
7. Foundation anchor bolts as per supplier's specification
8. PVC electrical conduit
9. Breaker box on a galvanised steel 65mm diameter 1.5 m long pipe
10. Submersible cable
11. HDPE 40mmdia Class 10 pipe
12. Compression male adapter
13. 10mm Nylon safety rope
14. Grundfos 1.2-2 SQFlex submersible pump
15. Borehole baseplate
16. Galvanised 90 degree elbow
17. Galvanised barrel nipple
18. Brass non return valve
19. Galvanised pipe union
20. Adaptor/Connector
21. Pipe to water tanks, 32mm HDPE class 6
22. Borehole protection: Rocla pre-cast or similar, 750mm dia x 500mm or similar, on concrete base.

NO.	SPECIAL NOTES:	S KONDLO (CHIEF ENGINEER)	DEPARTMENT OF RURAL DEVELOPMENT AND AGRARIAN REFORM PROVINCE OF THE EASTERN CAPE	STOCK WATER SYSTEM	SCALE	INDEX NO.
					NTS	SCMM-03/21/02
		OCTOBER 2024 (DATE APPROVED)	ENGINEERING SERVICES PRIVATE BAG X015 DOHNE ADI STUTTERHEIM 4930	WINDTURBINE & BOREHOLE	A3 ORIGINAL	PLAN NO. SHEET 2 OF 5

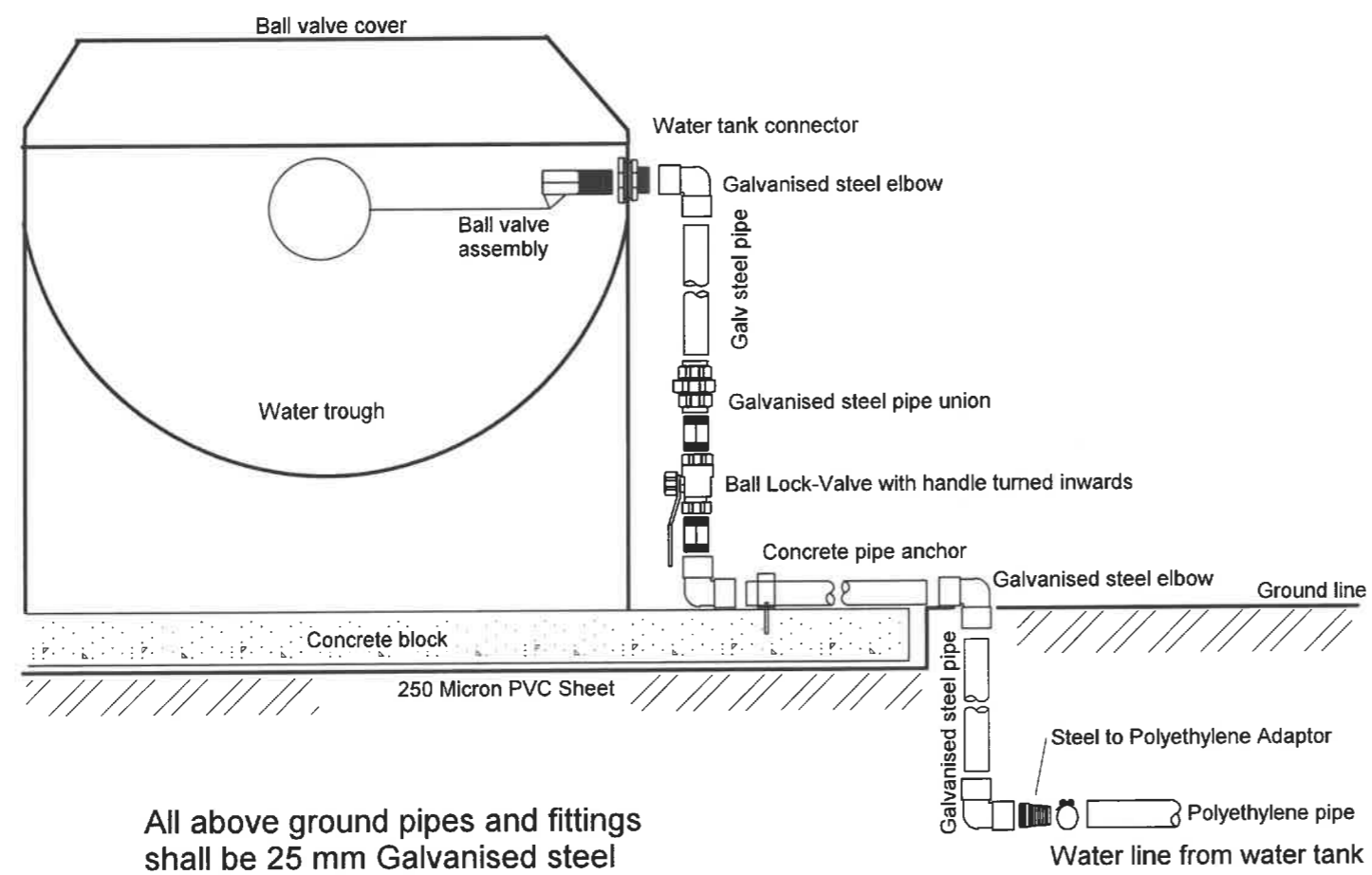
TWO WATER TANKS INLET AND OUTLET CONNECTIONS



NO.	SPECIAL NOTES:	S KONDLO (CHIEF ENGINEER)	DEPARTMENT OF RURAL DEVELOPMENT AND AGRARIAN REFORM PROVINCE OF THE EASTERN CAPE	SCALE NTS	INDEX NO. SCMM-03/21/03
		OCTOBER 2024 (DATE APPROVED)	ENGINEERING SERVICES PRIVATE BAG X015 DOHNE ADI STUTTERHEIM 4930	STOCK WATER SYSTEM	
				WATER TANKS INLET AND OUTLET CONNECTIONS	PLAN NO. SHEET 3 OF 5
				A3 ORIGINAL	



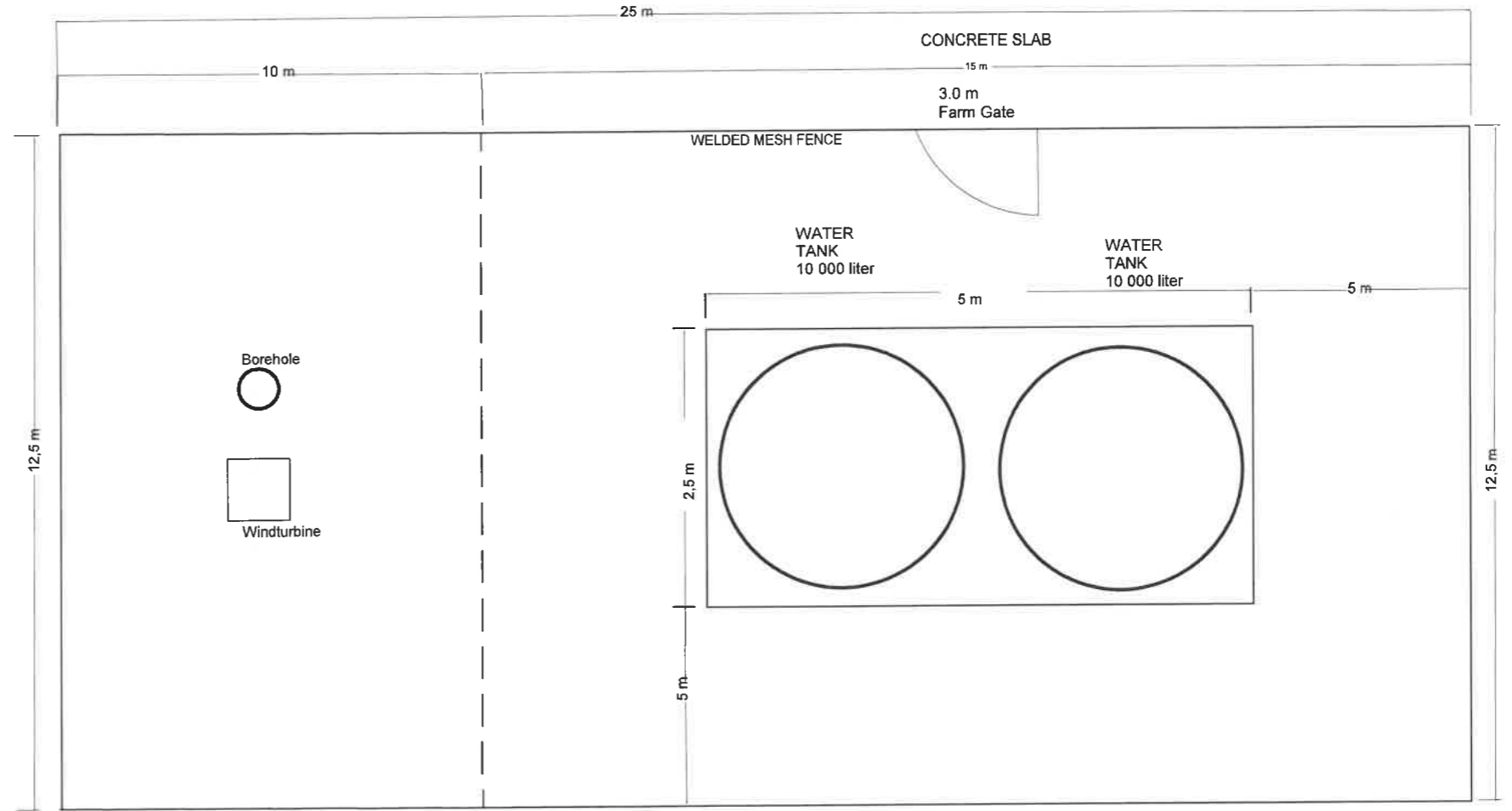
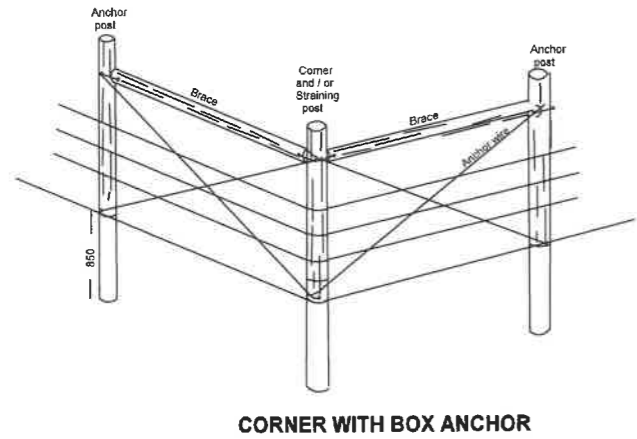
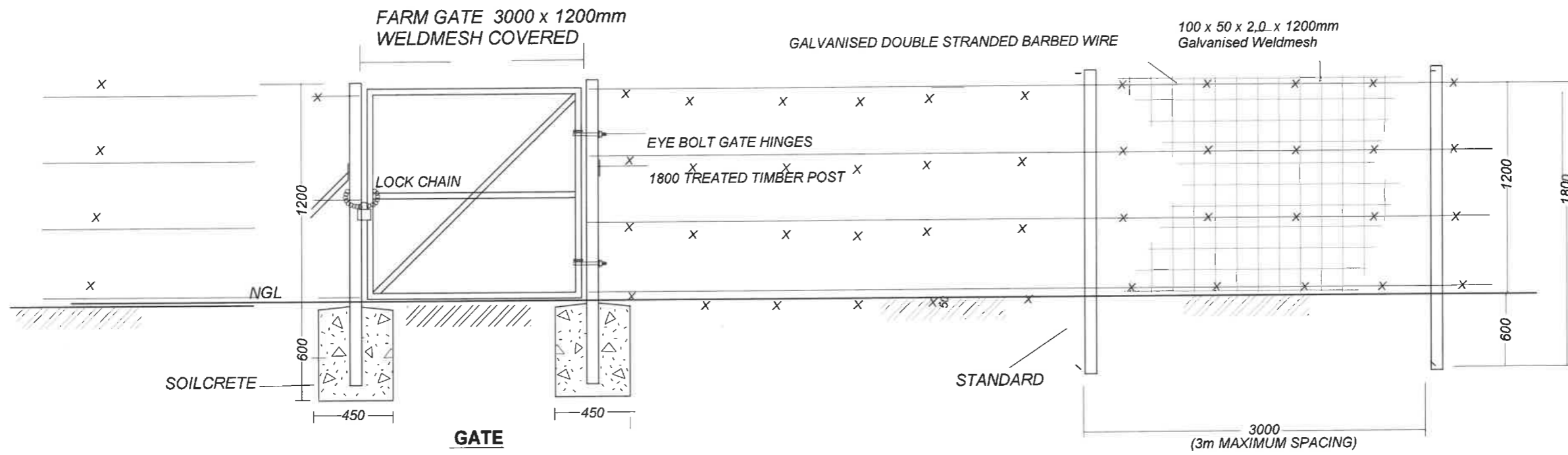
500 liter AND/OR 160 liter WATER TROUGH DETAIL



All above ground pipes and fittings shall be 25 mm Galvanised steel

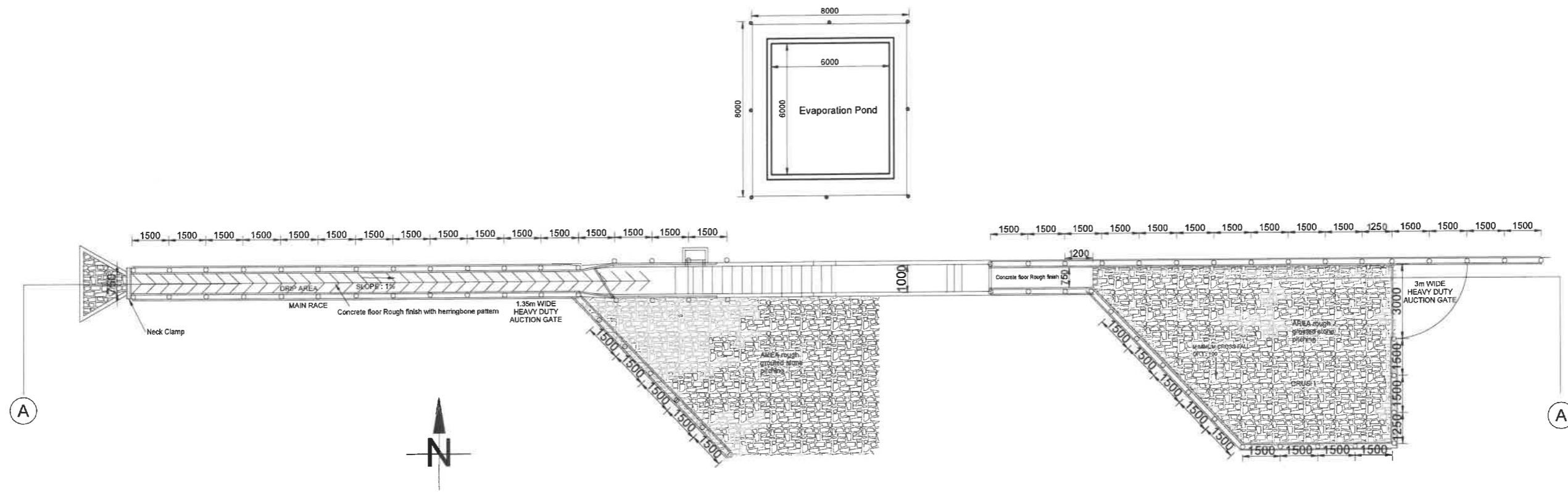
WATER TROUGH CONNECTIONS

NO.	SPECIAL NOTES:	S KONDLO (CHIEF ENGINEER)	DEPARTMENT OF RURAL DEVELOPMENT AND AGRARIAN REFORM PROVINCE OF THE EASTERN CAPE	STOCK WATER SYSTEM	SCALE	INDEX NO.
					NTS	SCMM-03/21/04
		OCTOBER 2024 (DATE APPROVED)	ENGINEERING SERVICES PRIVATE BAG X015 DOHNE ADI STUTTERHEIM 4930	WATER TROUGHES	A3 ORIGINAL	PLAN NO. SHEET 4 OF 5

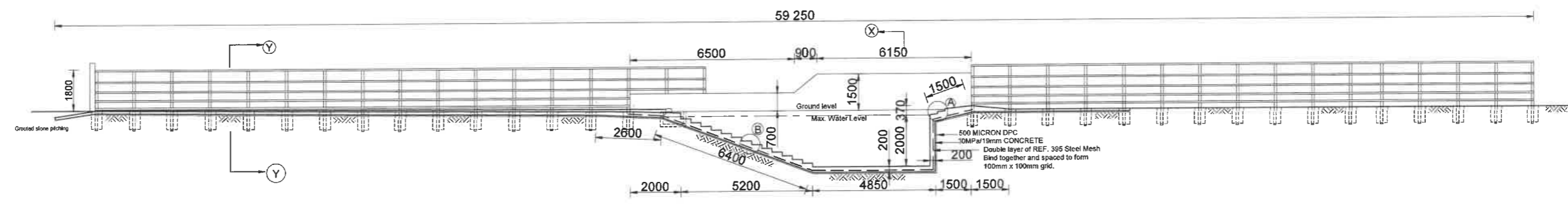


NO.	SPECIAL NOTES:	S KONDLO (CHIEF ENGINEER)	DEPARTMENT OF RURAL DEVELOPMENT AND AGRARIAN REFORM PROVINCE OF THE EASTERN CAPE	STOCK WATER SYSTEM		SCALE	INDEX NO.
				WATER TANKS TERRAIN FENCE		NTS	SCMM-03/21/06
		OCTOBER 2024 (DATE APPROVED)	ENGINEERING SERVICES PRIVATE BAG X015 DOHNE ADI STUTTERHEIM 4930			A3 ORIGINAL	PLAN NO. SHEET 5 OF 5

22 STANDARD CATTLE PLUNGE DIP TANK (STEEL)



PLAN VIEW



SECTION A-A

THIS OFFICE SHOULD BE NOTIFIED FOR INSPECTIONS AT THE FOLLOWING STAGES:

1. After the excavations has been completed and before concrete is placed.
2. After formwork has been placed.

SPECIFICATIONS FOR CONCRETE:

1. Ratio mix for 30 MPa concrete is 1 cement : 2 sand : 2 stone (19mm)

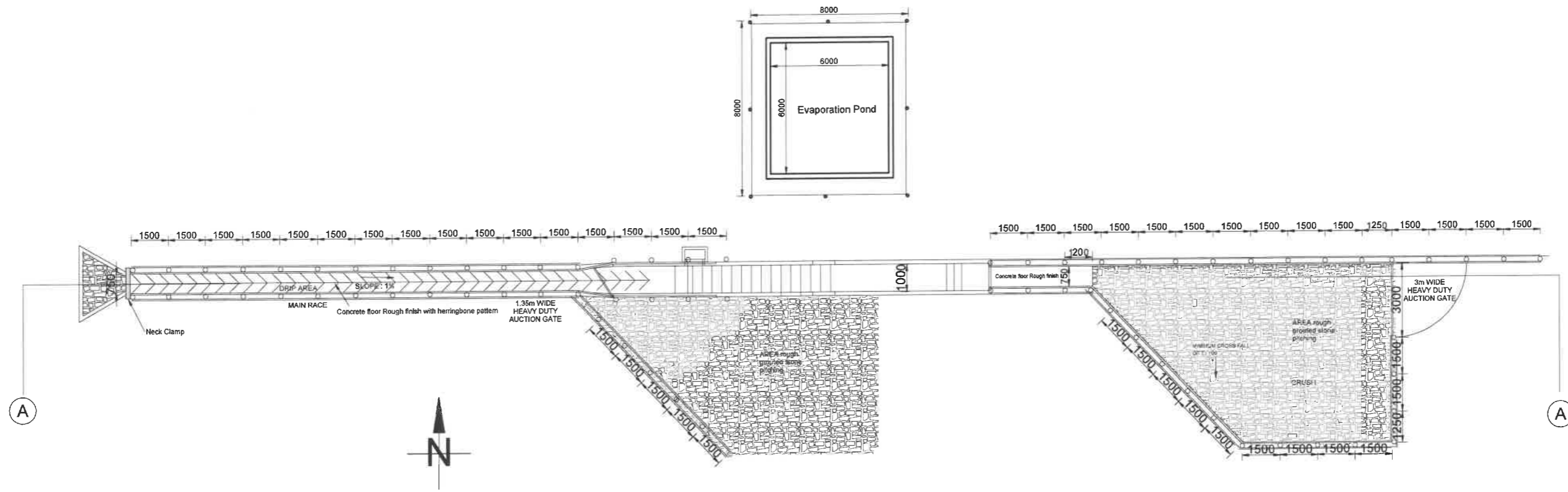
GRAUDED STONE PITCHING

- Grout mix
1 cement : 2 washed river sand.
100mm to 150mm dia stones

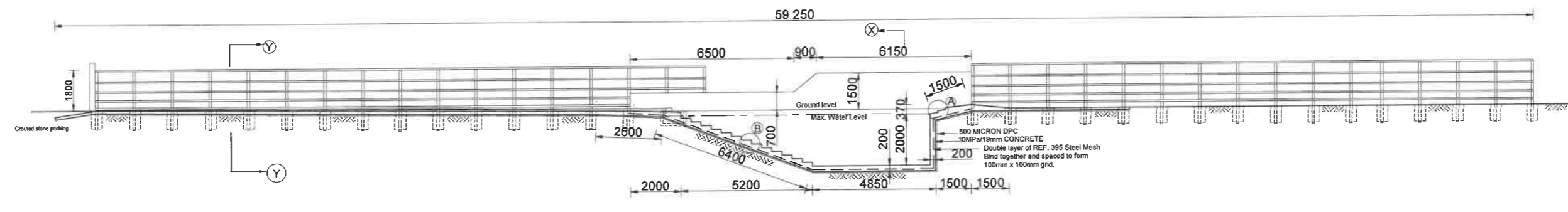
PERIMETER FENCE

NB: The position of the perimeter fence will be pointed out by the engineer on site

NO.	SPECIAL NOTES:	S KONDLO (CHIEF ENGINEER)	DEPARTMENT OF RURAL DEVELOPMENT AND AGRARIAN REFORM PROVINCE OF THE EASTERN CAPE	STANDARD PLUNGE DIP (STEEL)	SCALE NTS	INDEX NO. SCMM-03/22/01
		OCTOBER 2024 (DATE APPROVED)	ENGINEERING SERVICES PRIVATE BAG X015 DOHNE ADI STUTTERHEIM 4930	SITE LAYOUT PLAN	A3 ORIGINAL	PLAN NO. SHEET 1 OF 9



PLAN VIEW



SECTION A-A

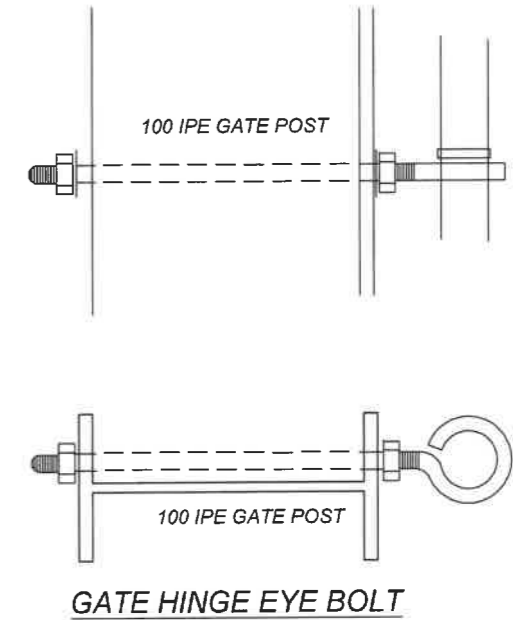
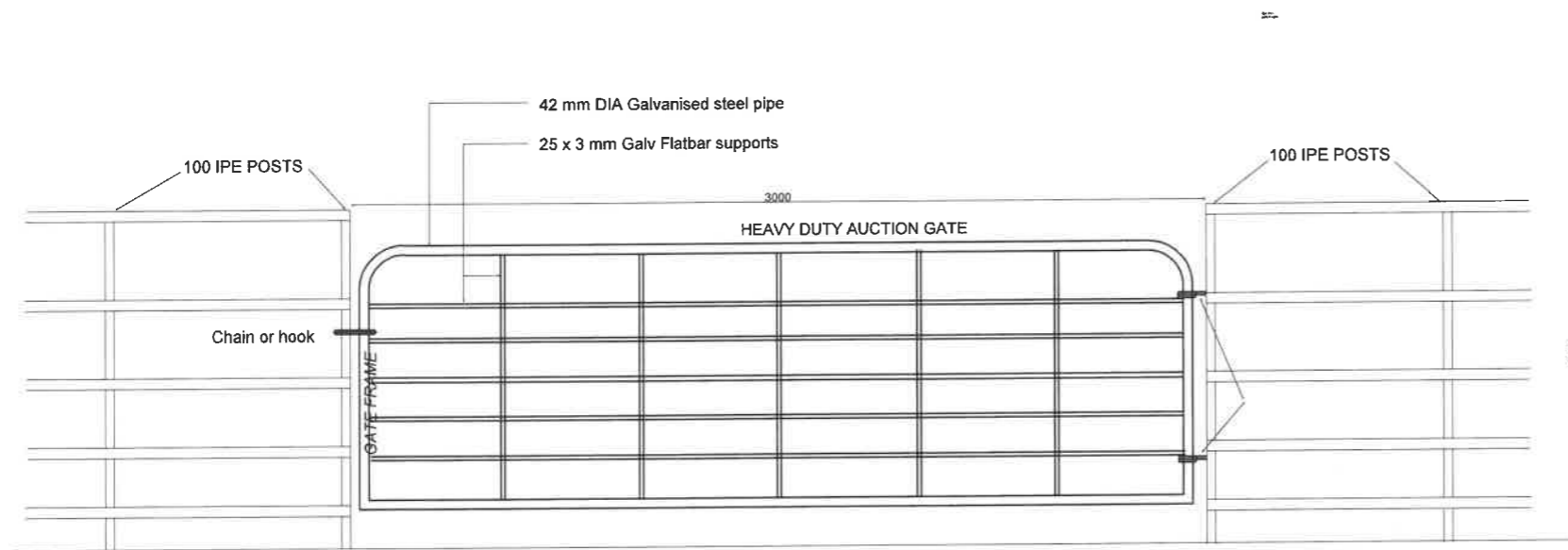
THIS OFFICE SHOULD BE NOTIFIED FOR INSPECTIONS AT THE FOLLOWING STAGES:
 1. After the excavations has been completed and before concrete is placed.
 2. After formwork has been placed.

SPECIFICATIONS FOR CONCRETE:
 1. Ratio mix for 30 MPa concrete is 1 cement : 2 sand : 2 stone (19mm)

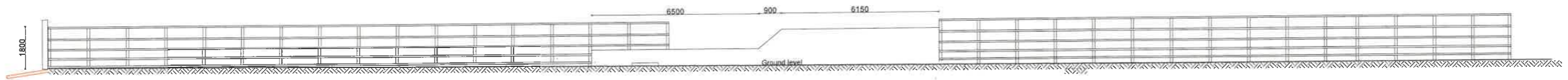
GROUTED STONE PITCHING
 Grout mix
 1 cement : 2 washed river sand.
 100mm to 150mm dia stones.

PERIMETER FENCE
 NB: The position of the perimeter fence will be pointed out by the engineer on site

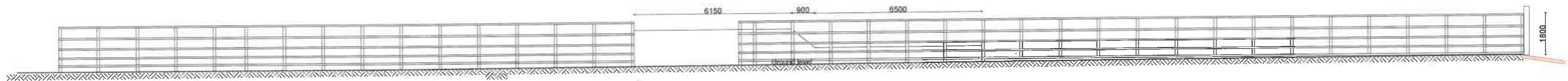
NO.	SPECIAL NOTES:	S KONDLO (CHIEF ENGINEER)	DEPARTMENT OF RURAL DEVELOPMENT AND AGRARIAN REFORM PROVINCE OF THE EASTERN CAPE	STANDARD PLUNGE DIP (STEEL)	SCALE	INDEX NO.
					NTS	SCMM-03/22/01
		OCTOBER 2024 (DATE APPROVED)	ENGINEERING SERVICES PRIVATE BAG X015 DOHNE ADI STUTTERHEIM 4930	SITE LAYOUT PLAN	A3 ORIGINAL	PLAN NO. SHEET 1 OF 9



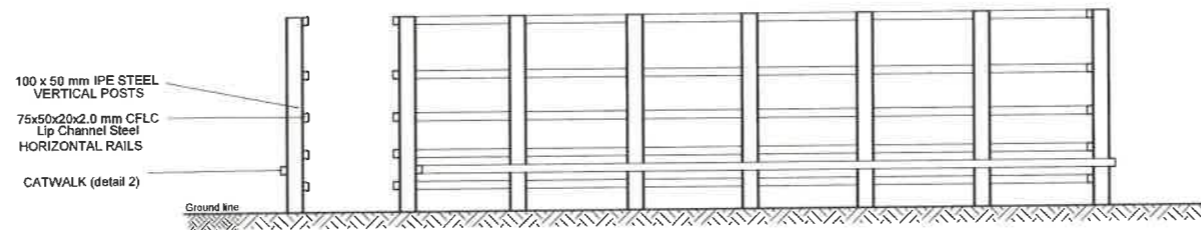
NO.	SPECIAL NOTES:	S KONDLO (CHIEF ENGINEER)	DEPARTMENT OF RURAL DEVELOPMENT AND AGRARIAN REFORM PROVINCE OF THE EASTERN CAPE ENGINEERING SERVICES PRIVATE BAG X015 DOHNE ADI STUTTERHEIM 4930	STANDARD PLUNGE DIP (STEEL)	SCALE	INDEX NO.
		OCTOBER 2024 (DATE APPROVED)			NTS	SCMM0-03/22/02
					AUCTION GATES	PLAN NO.
					A3 ORIGINAL	SHEET 2 OF 9



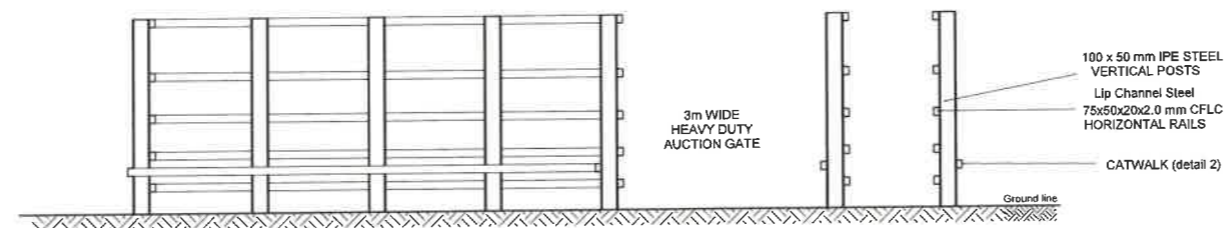
NORTH ELEVATION



SOUTH ELEVATION

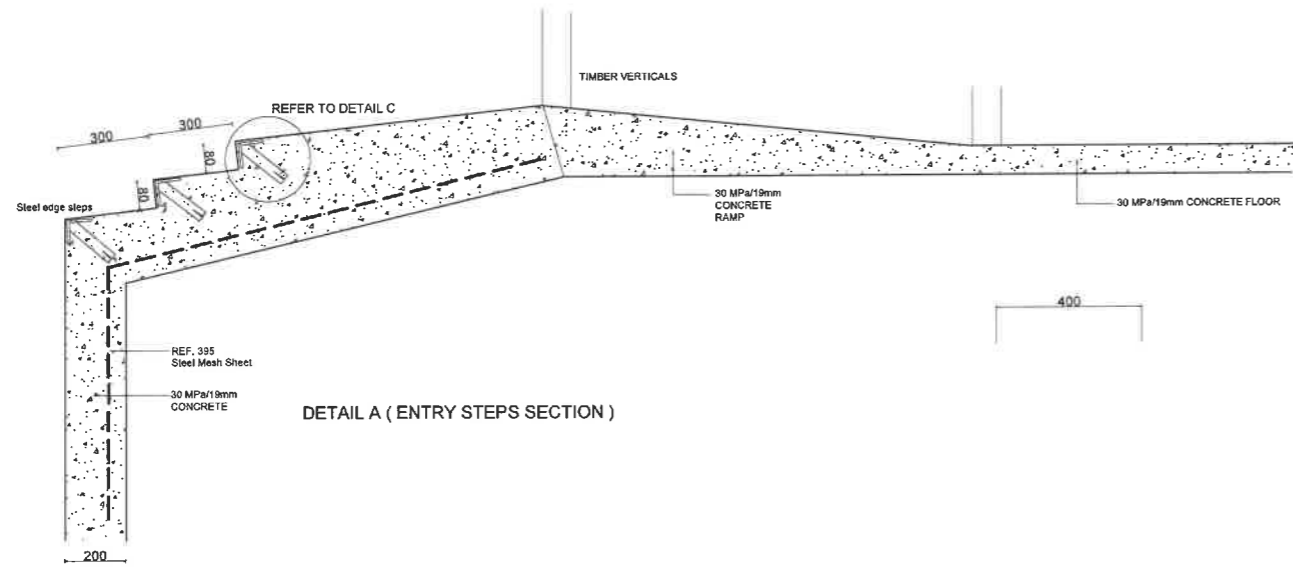


WEST ELEVATION

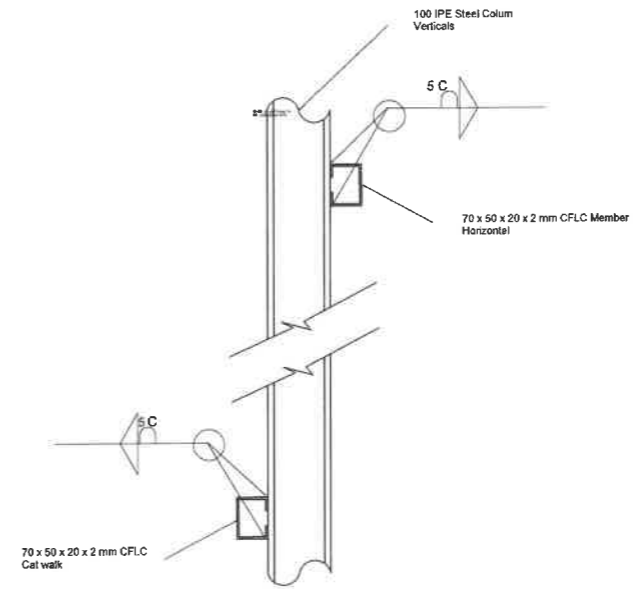


EAST ELEVATION

NO.	SPECIAL NOTES:	S KONDLO (CHIEF ENGINEER)	DEPARTMENT OF RURAL DEVELOPMENT AND AGRARIAN REFORM PROVINCE OF THE EASTERN CAPE	STANDARD PLUNGE DIP (STEEL)	SCALE NTS	INDEX NO. SCMM-03/22/03
				ELEVATIONS	A3 ORIGINAL	PLAN NO. SHEET 3 OF 9
		OCTOBER 2024 (DATE APPROVED)	ENGINEERING SERVICES PRIVATE BAG X015 DOHNE ADI STUTTERHEIM 4930			

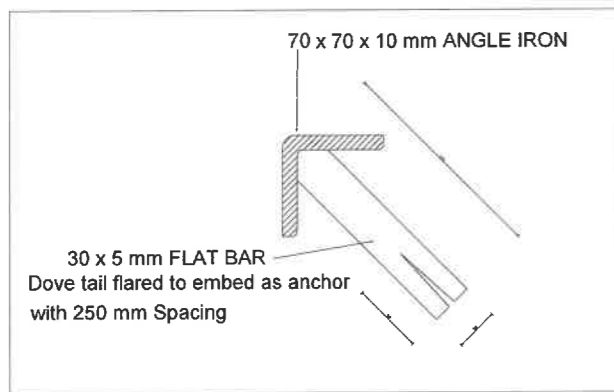
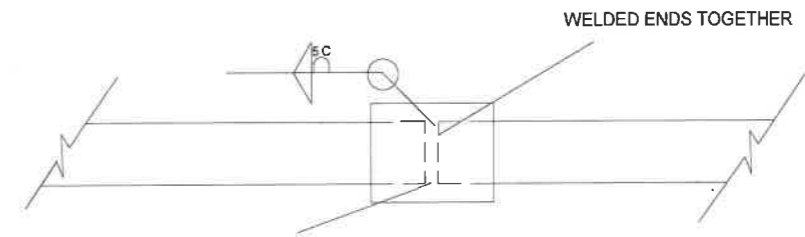


DETAIL A (ENTRY STEPS SECTION)

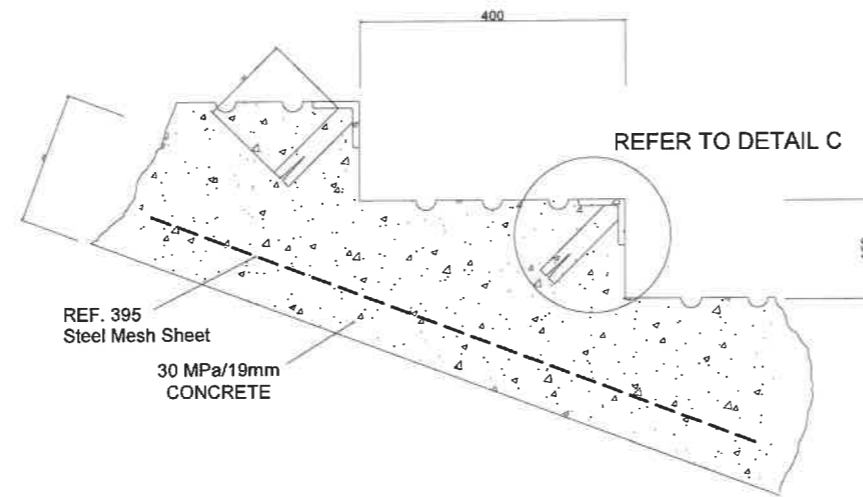


JOINT DETAIL HORIZONTAL MEMBERS

DETAIL D

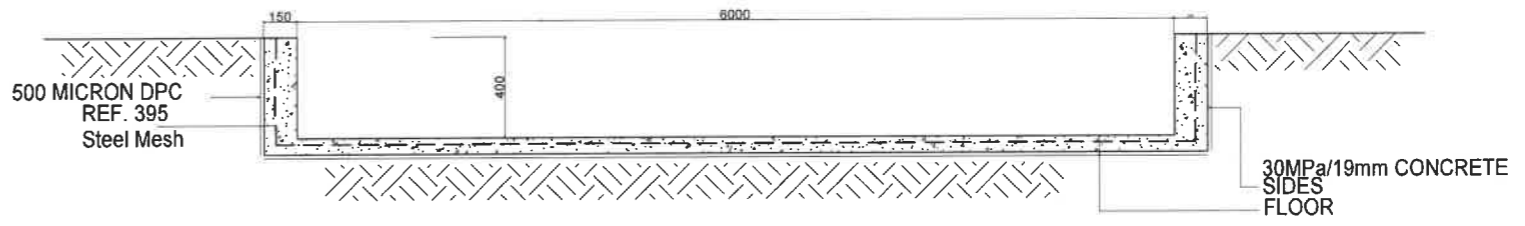
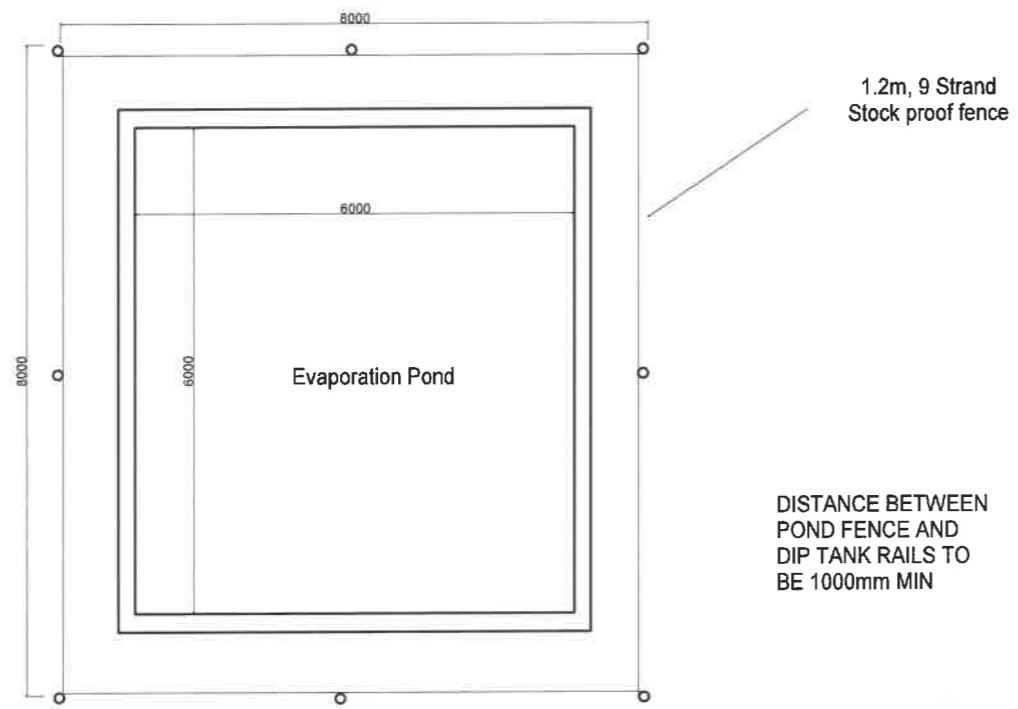


DETAIL C



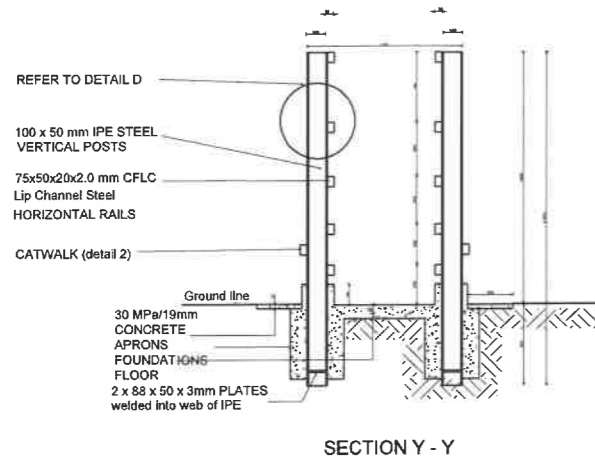
DETAIL B (EXIT STEPS SECTION)

NO.	SPECIAL NOTES:	S KONDLO (CHIEF ENGINEER)	DEPARTMENT OF RURAL DEVELOPMENT AND AGRARIAN REFORM PROVINCE OF THE EASTERN CAPE	STANDARD PLUNGE DIP (STEEL)	SCALE	INDEX NO.
					NTS	SCMM-02/22/04
		OCTOBER 2024 (DATE APPROVED)	ENGINEERING SERVICES PRIVATE BAG X015 DOHNE ADI STUTTERHEIM 4930	DETAILS	A3 ORIGINAL	PLAN NO. SHEET 4 OF 9

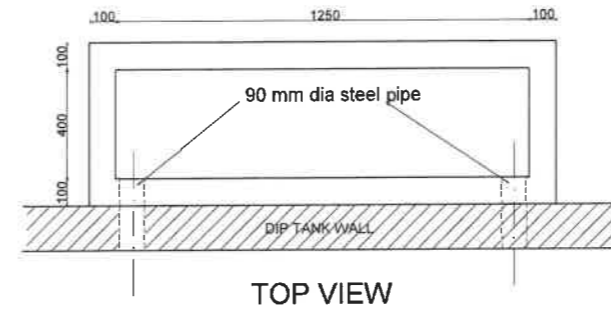


SECTION EVAPORATION POND

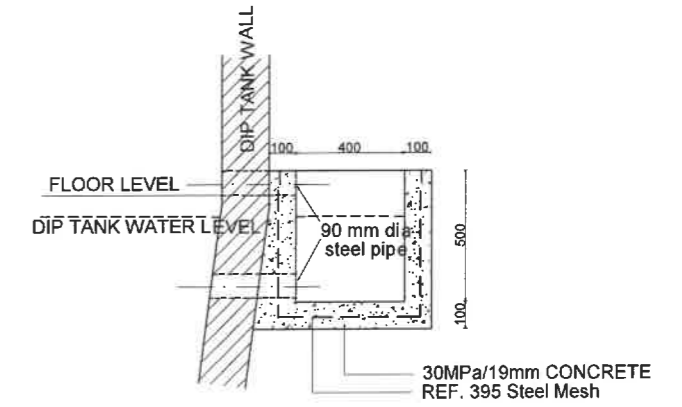
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					NTS	SCMM-03/22/05
		OCTOBER 2024 (DATE APPROVED)	ENGINEERING SERVICES PRIVATE BAG X015 DOHNE ADI STUTTERHEIM 4930	EVAPORATION POND	A3 ORIGINAL	PLAN NO. SHEET 5 OF 9



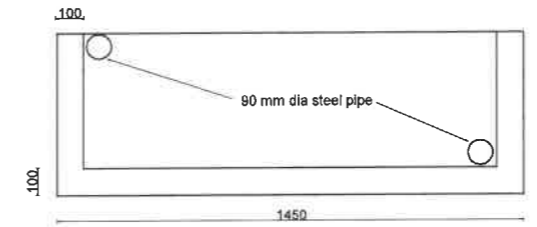
SECTION Y - Y



TOP VIEW

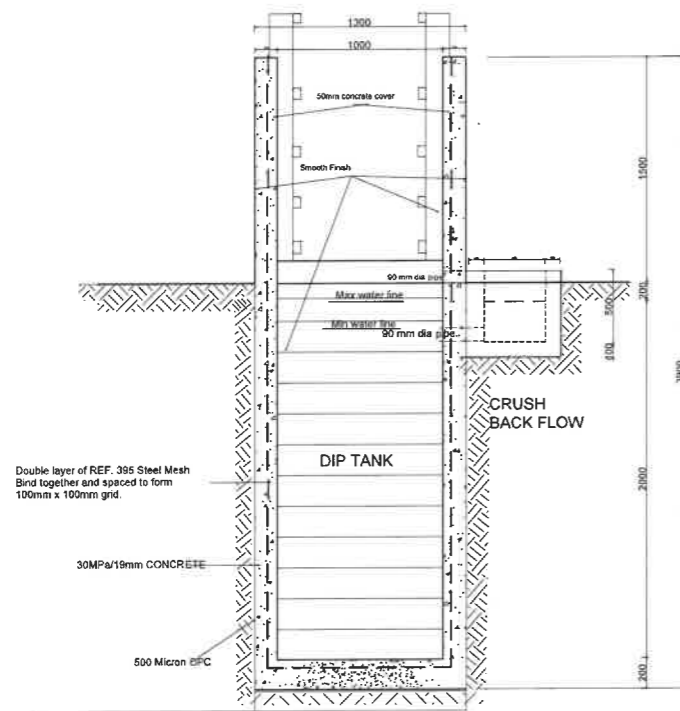


SIDE VIEW SECTION

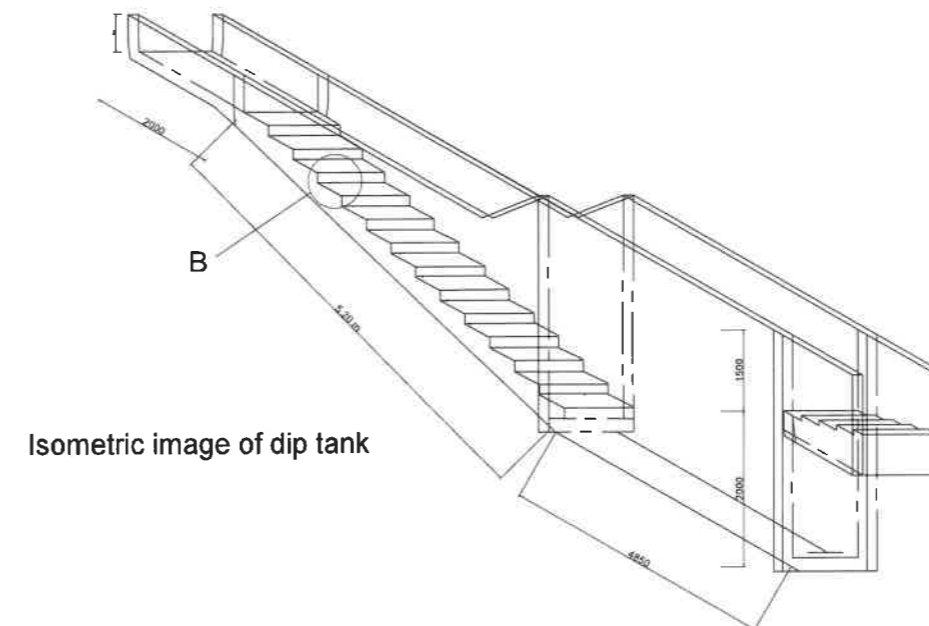


FRONT VIEW

DEBRIS COLLECTOR WEIR

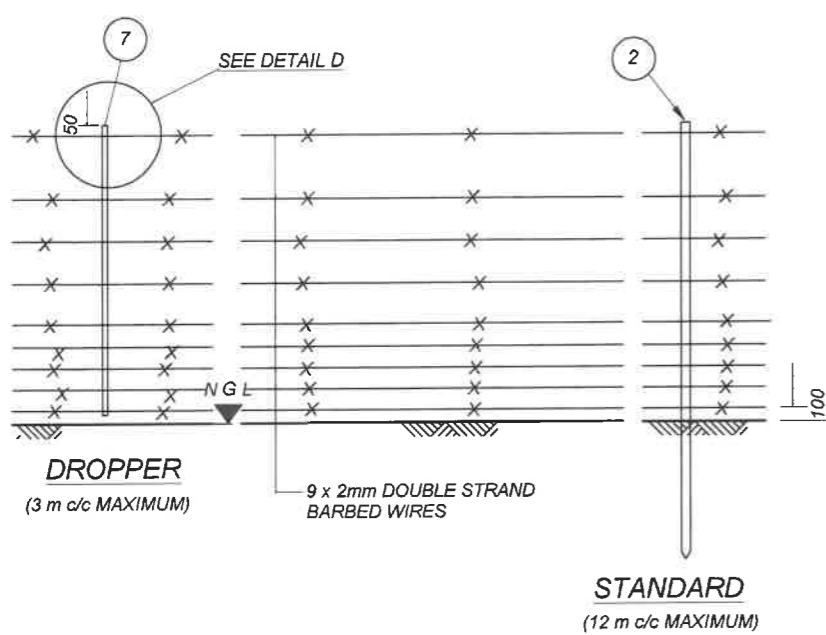


SECTION X - X

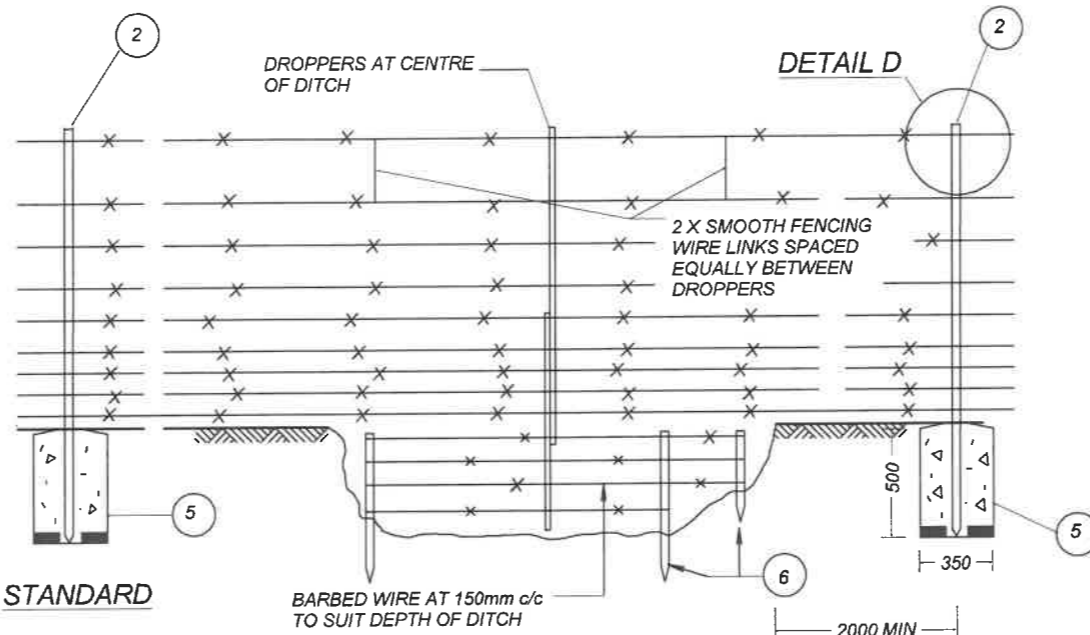


Isometric image of dip tank

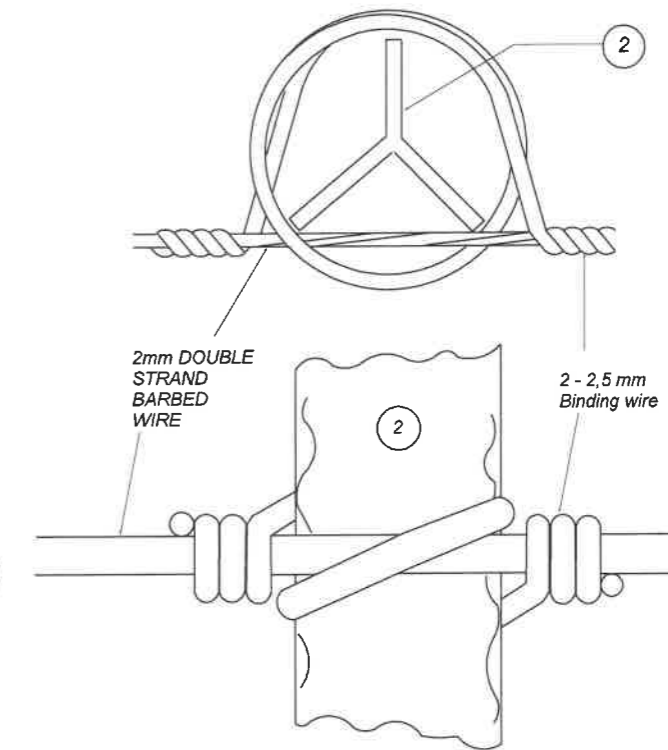
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					NTS	SCMM-03/22/06
		OCTOBER 2024 (DATE APPROVED)	ENGINEERING SERVICES PRIVATE BAG X015 DOHNE ADI STUTTERHEIM 4930	SECTIONS	A3 ORIGINAL	PLAN NO. SHEET 6 OF 9



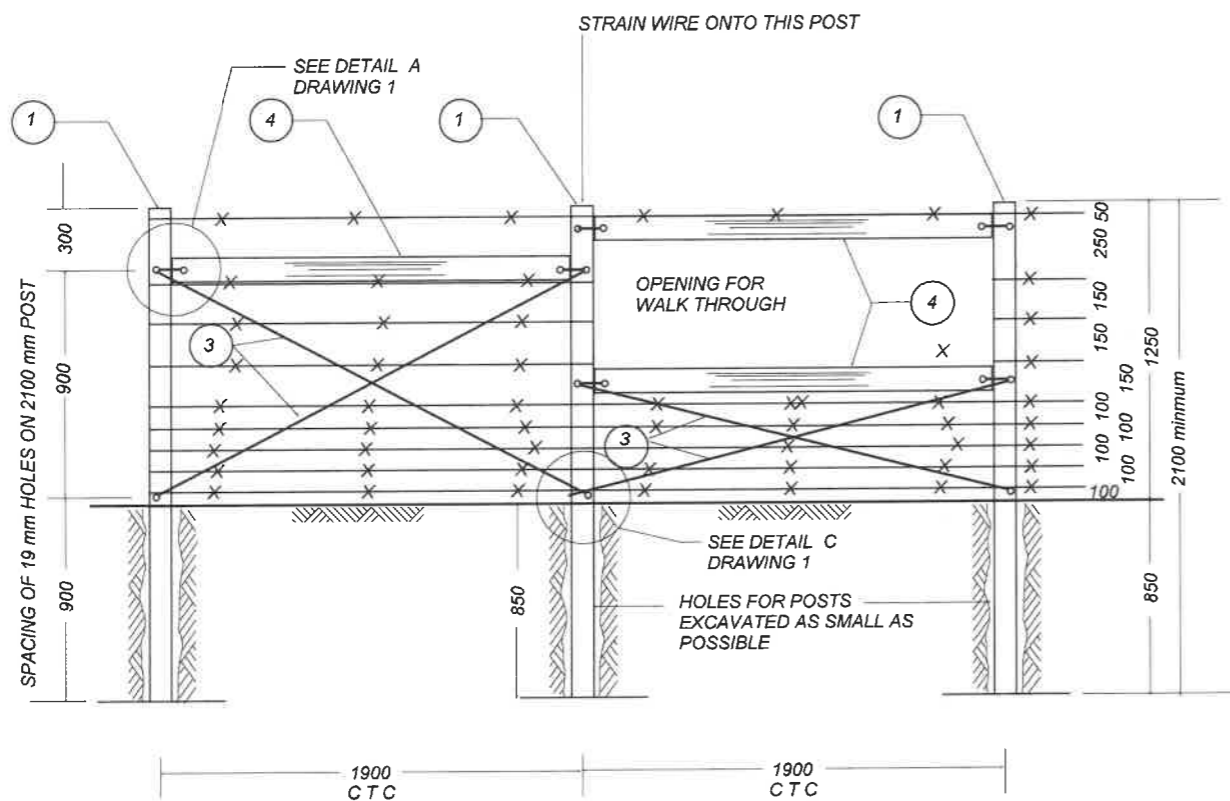
STOCK PROOF FENCE



CROSSING CANALS AND TRENCHES



DETAIL D



STRAINING POST with BOX ANCHOR WALKTHROUGH

(250m MAXIMUM SPACING)

LEGEND

- 1 — 125 - 150mm TOP DIAMETER x 2100 mm TREATED TIMBER POST CORNER, STRAINING AND ANCHOR POSTS
- 2 — 2,0 kg/m x 1800 mm Y SECTION IRON STANDARD
- 3 — 4mm x 4 STRANDS TWISTED SOFT GALVANISED BINDING WIRE
- 4 — 100 - 125mm TOP DIAMETER x 1800 mm TREATED TIMBER POST BRACES IN BOX ANCHORS
- 5 — STANDARDS EMBEDDED IN CLASS 20/19 CONCRETE IF ORDERED BY THE ENGINEER
- 6 — STAKES (DROPPER PROFILE) OF SUITABLE LENGTH DRIVEN FIRMLY INTO SIDES & BED OF TRENCH AT APPROVED SPACINGS. STAKES TO BE ALIGNED WITH & TIED TO DROPPERS WITH WIRE WHERE REQUIRED.
- 7 — 0,56 kg/m x 1150 mm RIDGEBACK PATTERN IRON DROPPER

NGL NATURAL GROUND LEVEL

NOTES:

THIS DRAWING TO BE READ IN CONJUNCTION WITH THE PROJECT PARTICULAR SPECIFICATIONS FOR FENCES

NO.	SPECIAL NOTES:

S KONDLO
(CHIEF ENGINEER)

OCTOBER 2024
(DATE APPROVED)

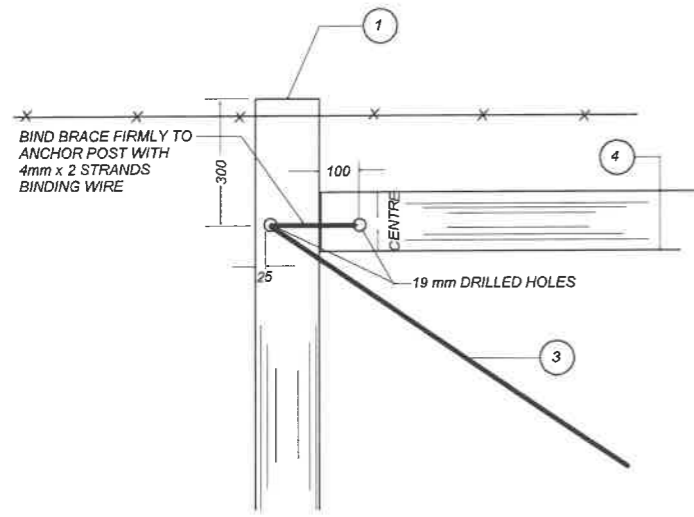
**DEPARTMENT OF RURAL DEVELOPMENT AND AGRARIAN REFORM
PROVINCE OF THE EASTERN CAPE**

ENGINEERING SERVICES
PRIVATE BAG X015
DOHNE ADI
STUTTERHEIM
4930

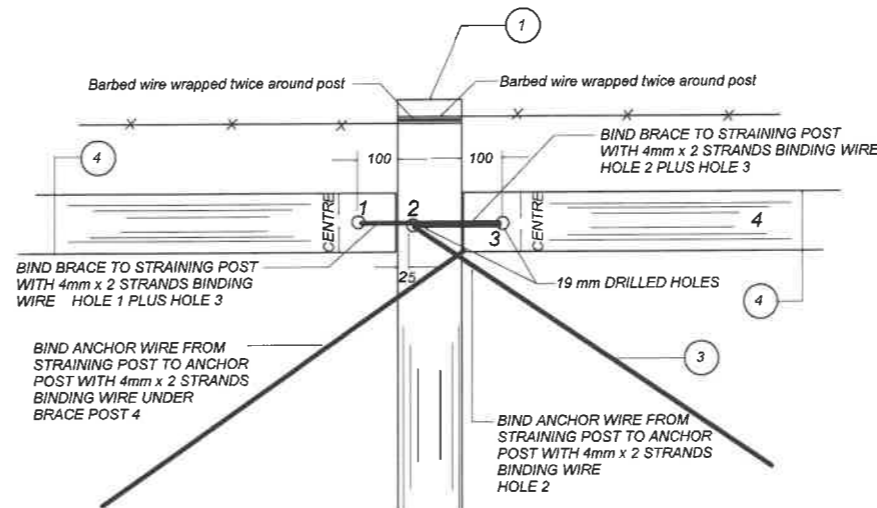
**STANDARD PLUNGE DIP
(STEEL)**

POND FENCE - 1

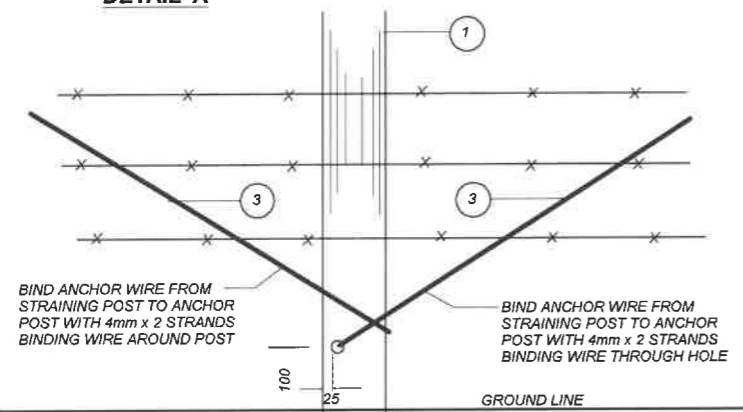
SCALE	INDEX NO.
NTS	SCMM-03/22/07
A3 ORIGINAL	PLAN NO.
	SHEET 7 OF 9



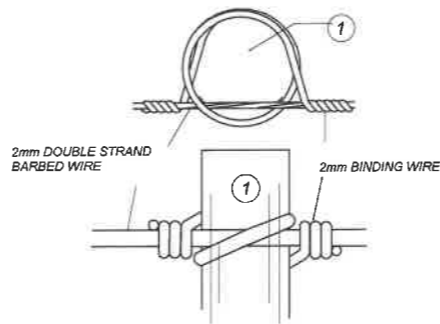
DETAIL A



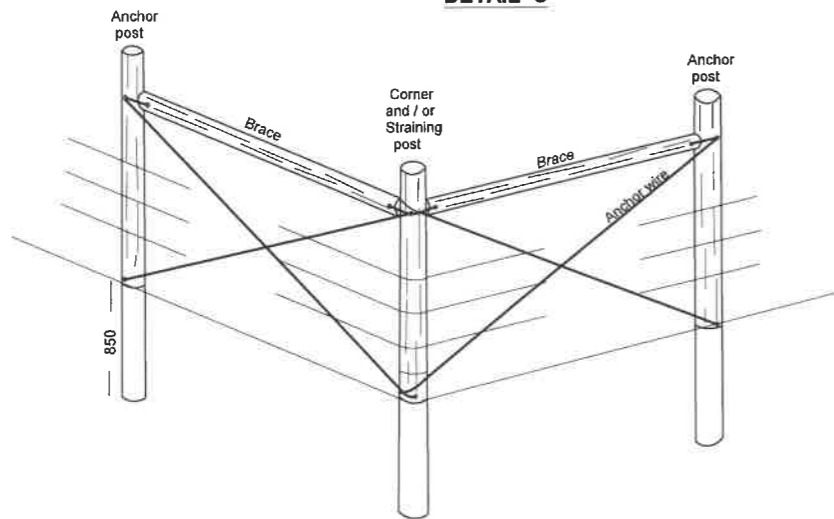
DETAIL B



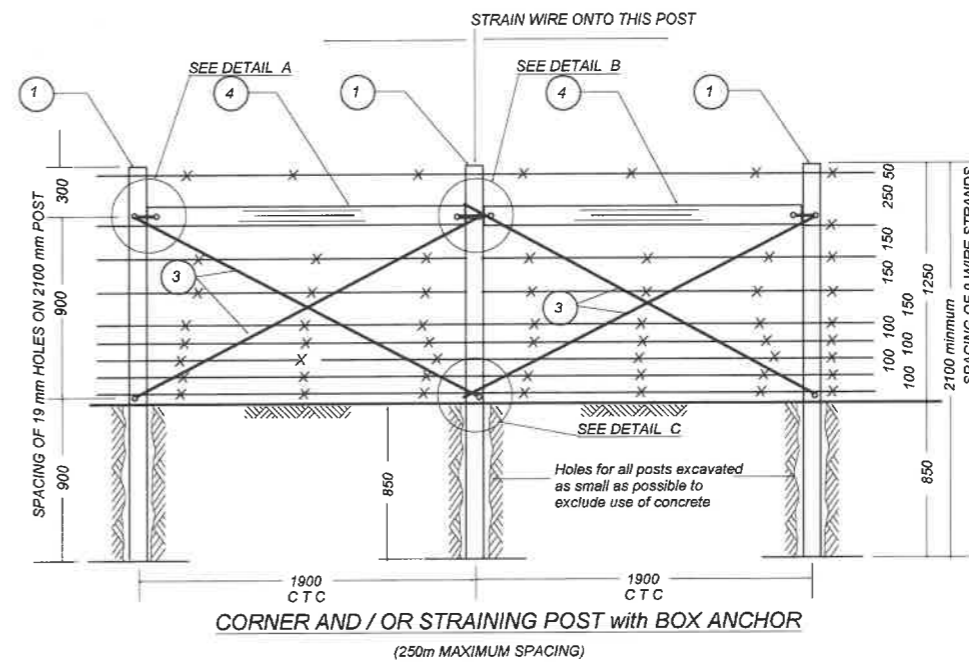
DETAIL C



DETAIL D



CORNER WITH BOX ANCHOR



LEGEND

①
125 - 150mm TOP DIAMETER x 2100 mm TREATED TIMBER POST CORNER, STRAINING AND ANCHOR POSTS

③
4mm x 4 STRANDS TWISTED SOFT GALVANISED BINDING WIRE

④
100 - 125mm TOP DIAMETER x 1800 mm TREATED TIMBER POST BRACES IN BOX ANCHORS

NOTES:

1. THIS DRAWING TO BE READ IN CONJUNCTION WITH THE PROJECT PARTICULAR SPECIFICATIONS FOR FENCES

NGL NATURAL GROUND LEVEL

NO.	SPECIAL NOTES:

S KONDLO
(CHIEF ENGINEER)

OCTOBER 2024
(DATE APPROVED)

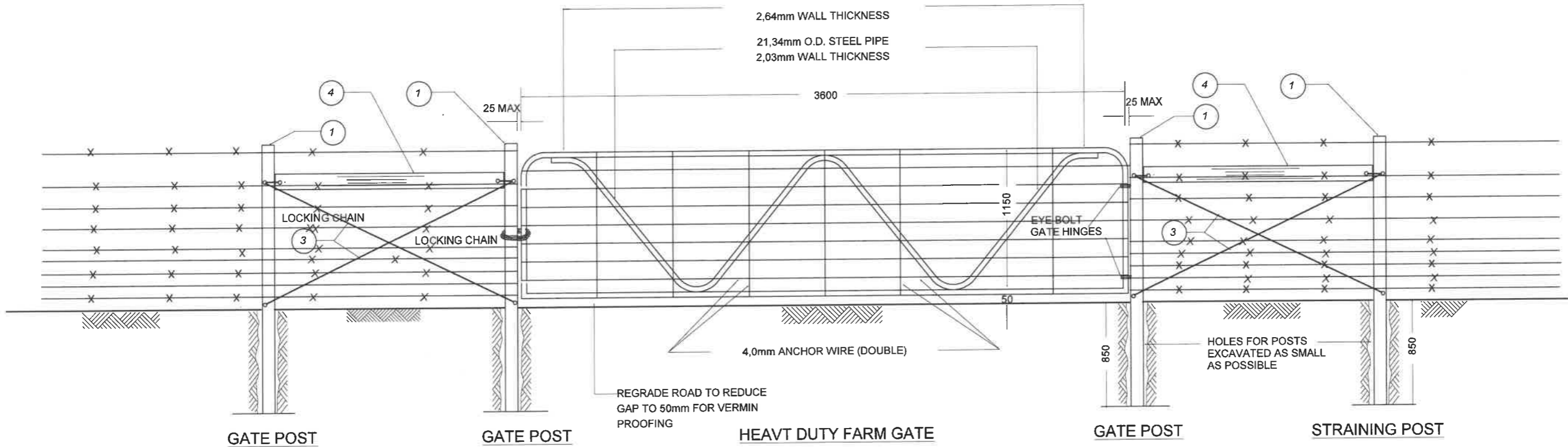
**DEPARTMENT OF RURAL DEVELOPMENT AND AGRARIAN REFORM
PROVINCE OF THE EASTERN CAPE**

ENGINEERING SERVICES
PRIVATE BAG X015
DOHNE ADI
STUTTERHEIM
4930

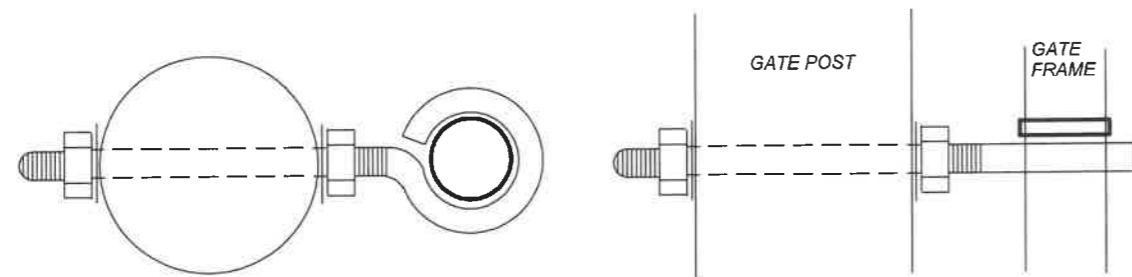
**STANDARD PLUNGE DIP
(STEEL)**

POND FENCE - 2

SCALE	INDEX NO.
NTS	SCMM-03/22/08
A3 ORIGINAL	PLAN NO.
	SHEET 8 OF 9



FARM GATES



GATE HINGE EYE BOLT

LEGEND

- ① 125 - 150mm TOP DIAMETER x 2100 mm TREATED TIMBER POST CORNER, STRAINING, GATE AND ANCHOR POSTS
- ③ 4mm x 4 STRANDS TWISTED SOFT GALVANISED BINDING WIRE
- ④ 100 - 125mm TOP DIAMETER x 1800 mm TREATED TIMBER POST BRACES IN BOX ANCHORS

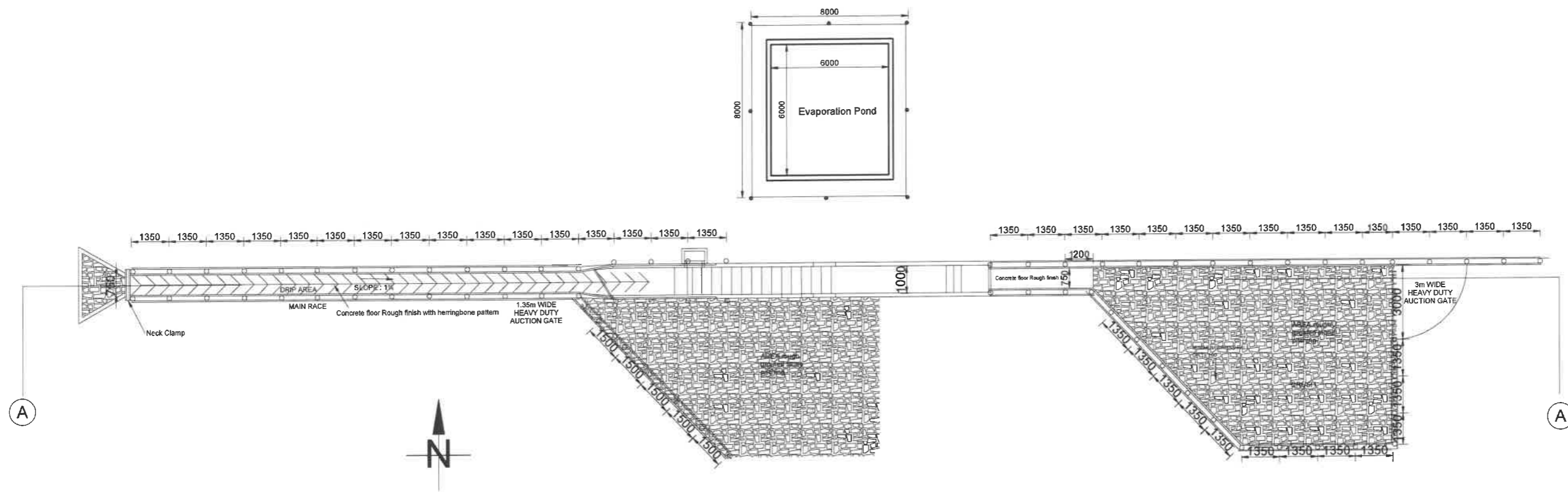
NGL NATURAL GROUND LEVEL

NOTES:

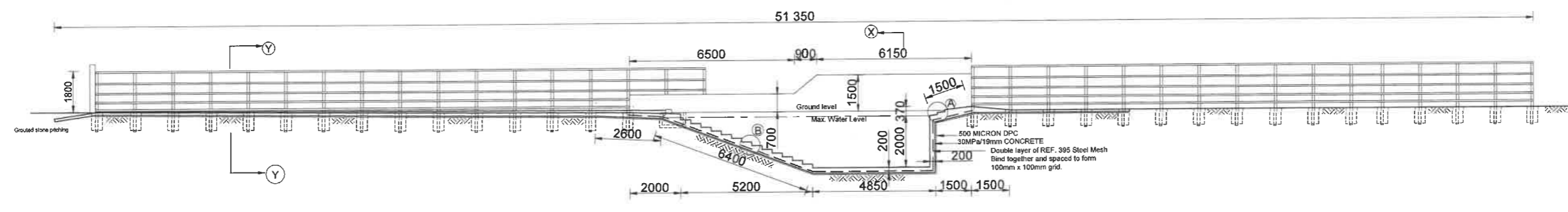
THIS DRAWING TO BE READ IN CONJUNCTION WITH THE PROJECT PARTICULAR SPECIFICATIONS FOR FENCES

NO.	SPECIAL NOTES:	S KONDLO (CHIEF ENGINEER)	DEPARTMENT OF RURAL DEVELOPMENT AND AGRARIAN REFORM PROVINCE OF THE EASTERN CAPE	STANDARD PLUNGE DIP (STEEL)	SCALE NTS	INDEX NO. SCMM-03/22/09
				SITE LAYOUT PLAN	A3 ORIGINAL	PLAN NO. SHEET 9 OF 9
		OCTOBER 2024 (DATE APPROVED)	ENGINEERING SERVICES PRIVATE BAG X015 DOHNE ADI STUTTERHEIM 4930			

23 STANDARD CATTLE PLUNGE DIP TANK (TIMBER)



PLAN VIEW



SECTION A-A

THIS OFFICE SHOULD BE NOTIFIED FOR INSPECTIONS AT THE FOLLOWING STAGES:
 1. After the excavations has been completed and before concrete is placed.
 2. After formwork has been placed.

SPECIFICATIONS FOR CONCRETE:
 1. Ratio mix for 30 MPa concrete is 1 cement : 2 sand : 2 stone (19mm)

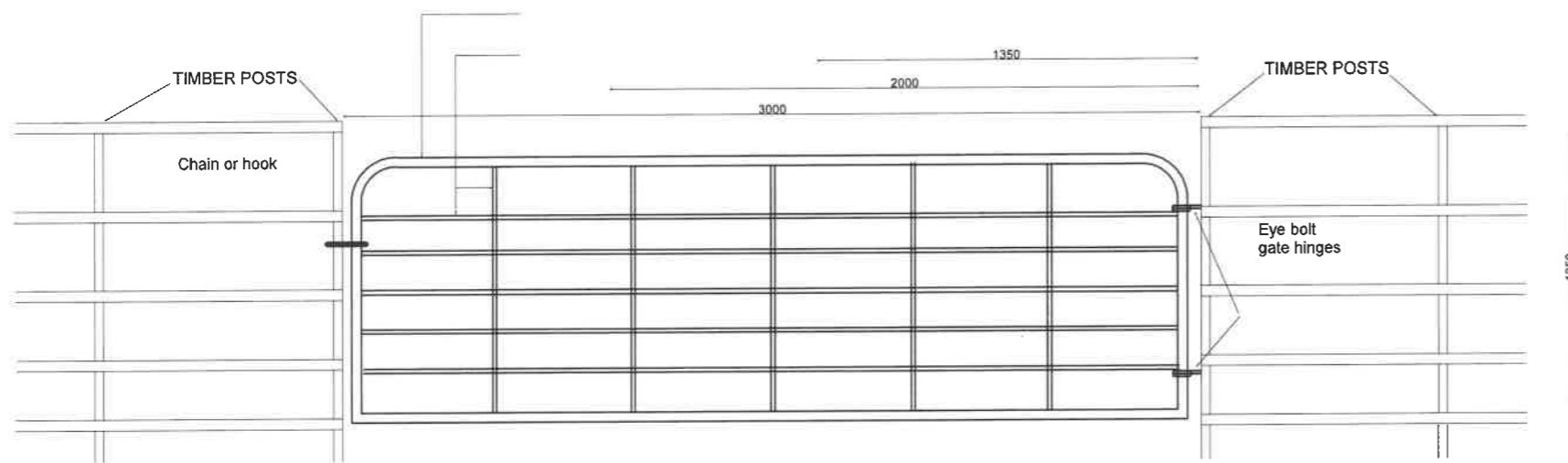
GROUTED STONE PITCHING
 Grout mix
 1 cement : 2 washed river sand.
 100mm to 150mm dia stones.

PERIMETER FENCE
 NB: The position of the perimeter fence will be pointed out by the engineer on site

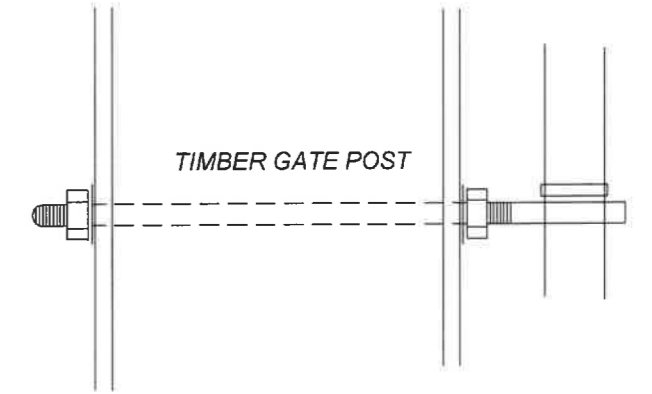
NO.	SPECIAL NOTES:	S KONDLO (CHIEF ENGINEER)	DEPARTMENT OF RURAL DEVELOPMENT AND AGRARIAN REFORM PROVINCE OF THE EASTERN CAPE	STANDARD PLUNGE DIP (TIMBER)	SCALE	INDEX NO.
					NTS	SCMM-03/23/01
		OCTOBER 2024 (DATE APPROVED)	ENGINEERING SERVICES PRIVATE BAG X015 DOHNE ADI STUTTERHEIM 4930	SITE LAYOUT PLAN	A3 ORIGINAL	PLAN NO. SHEET 1 OF 9

PLAN VIEW

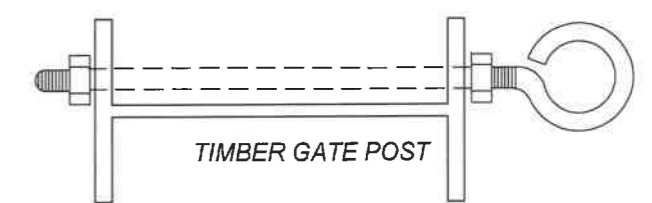
42 mm DIA Galvanised steel pipe
25 x 3 mm Galv Flatbar supports



HEAVY DUTY AUCTION GATE



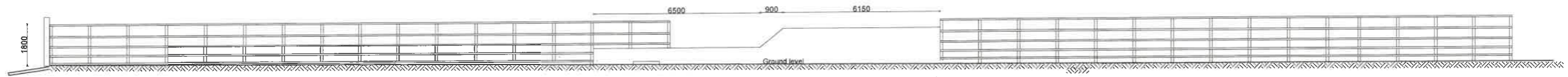
TIMBER GATE POST



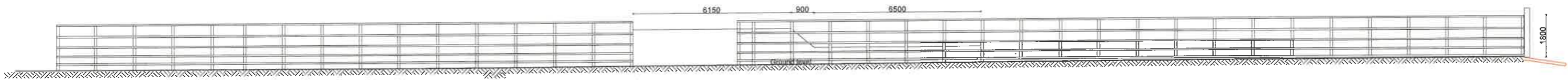
TIMBER GATE POST

GATE HINGE EYE BOLT

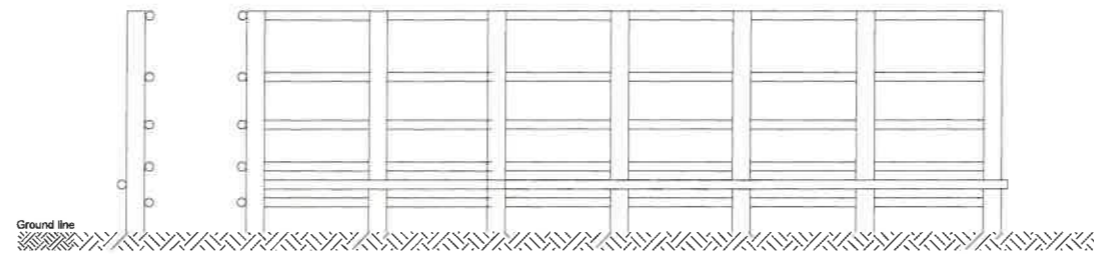
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					NTS	SCMM-03/23/02
		OCTOBER 2024 (DATE APPROVED)	ENGINEERING SERVICES PRIVATE BAG X015 DOHNE ADI STUTTERHEIM 4930	AUCTION GATES	A3 ORIGINAL	PLAN NO. SHEET 2 OF 9



NORTH ELEVATION

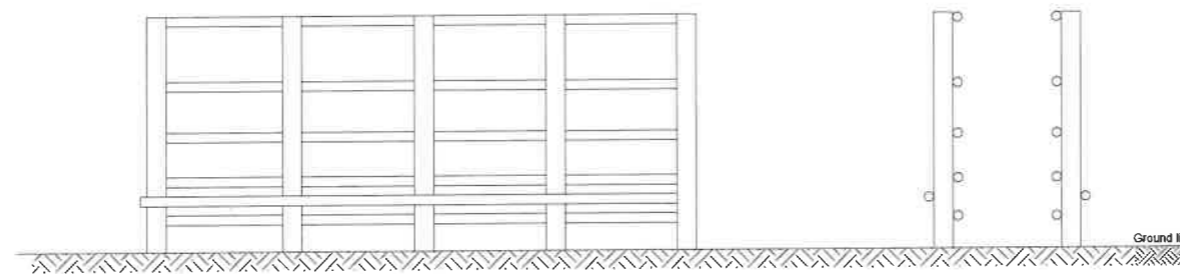


SOUTH ELEVATION



EAST ELEVATION

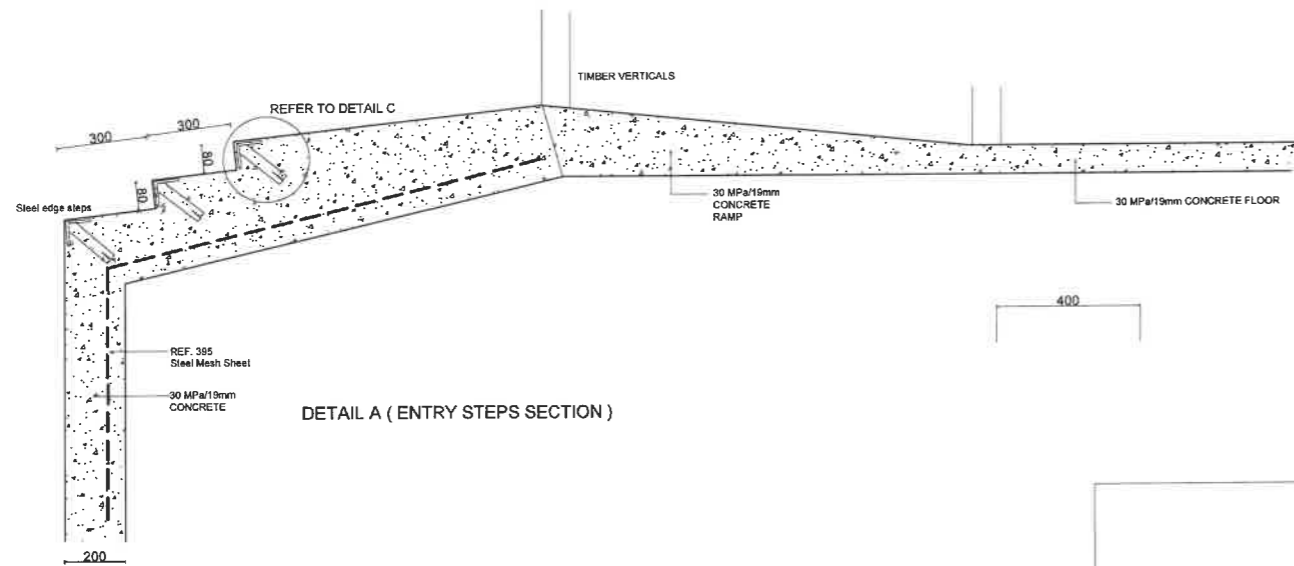
3m WIDE
HEAVY DUTY
AUCTION GATE



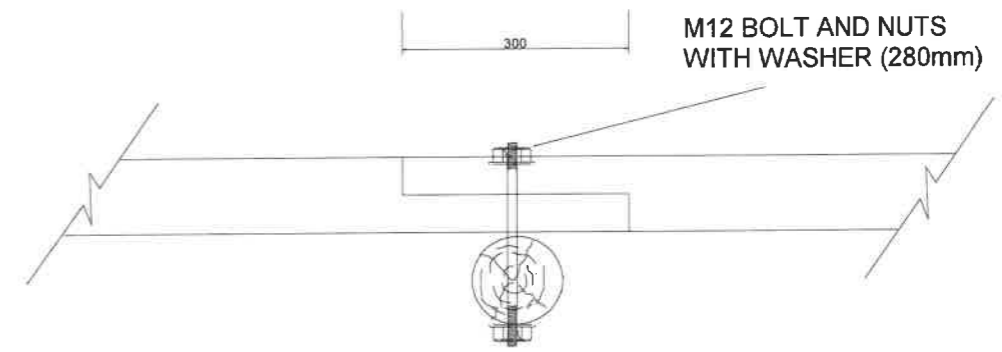
WEST ELEVATION

3m WIDE
HEAVY DUTY
AUCTION GATE

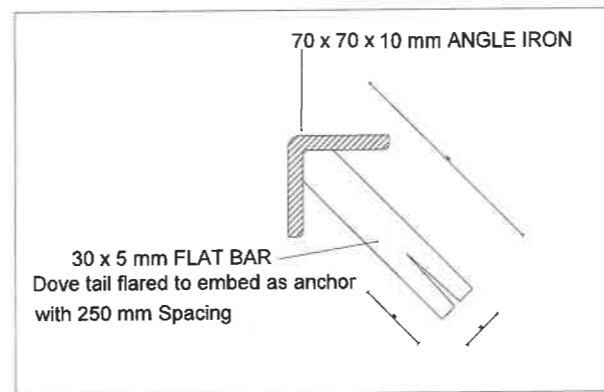
NO.	SPECIAL NOTES:	S KONDLO (CHIEF ENGINEER)	DEPARTMENT OF RURAL DEVELOPMENT AND AGRARIAN REFORM PROVINCE OF THE EASTERN CAPE	STANDARD PLUNGE DIP (TIMBER)	SCALE NTS	INDEX NO. SCMM-03/23/03
				ELEVATIONS	A3 ORIGINAL	PLAN NO. SHEET 3 OF 9
		OCTOBER 2024 (DATE APPROVED)	ENGINEERING SERVICES PRIVATE BAG X015 DOHNE ADI STUTTERHEIM 4930			



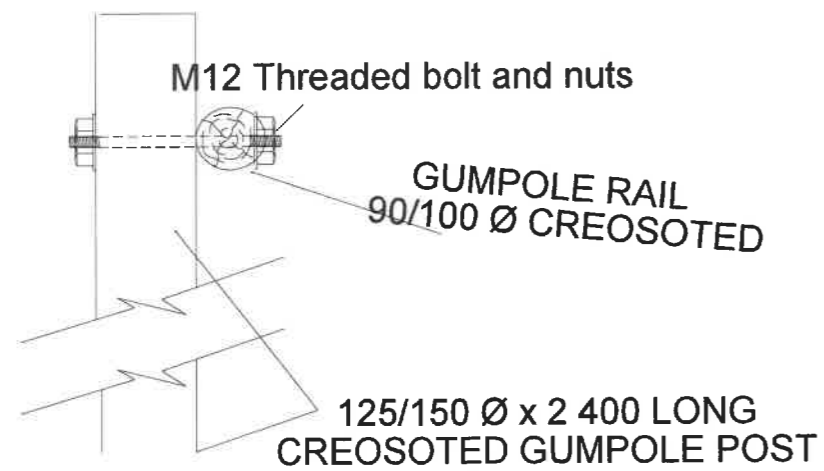
DETAIL A (ENTRY STEPS SECTION)



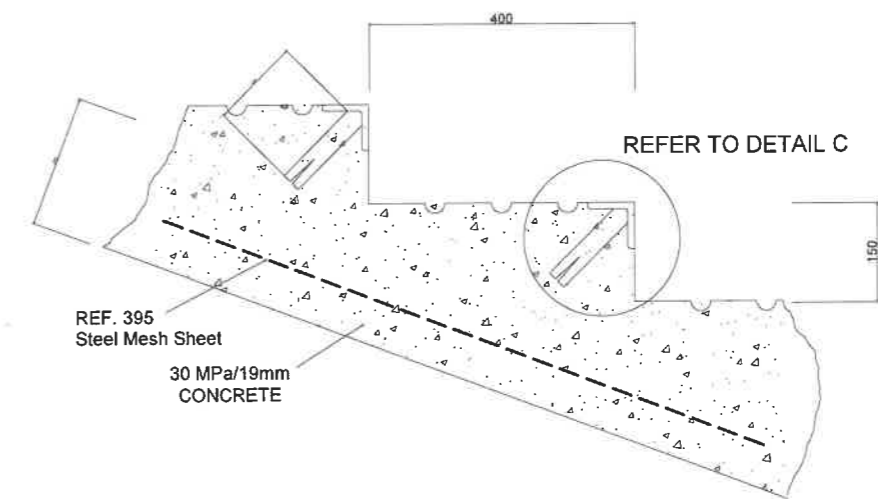
JOINT DETAIL
HORIZONTAL POLES



DETAIL C

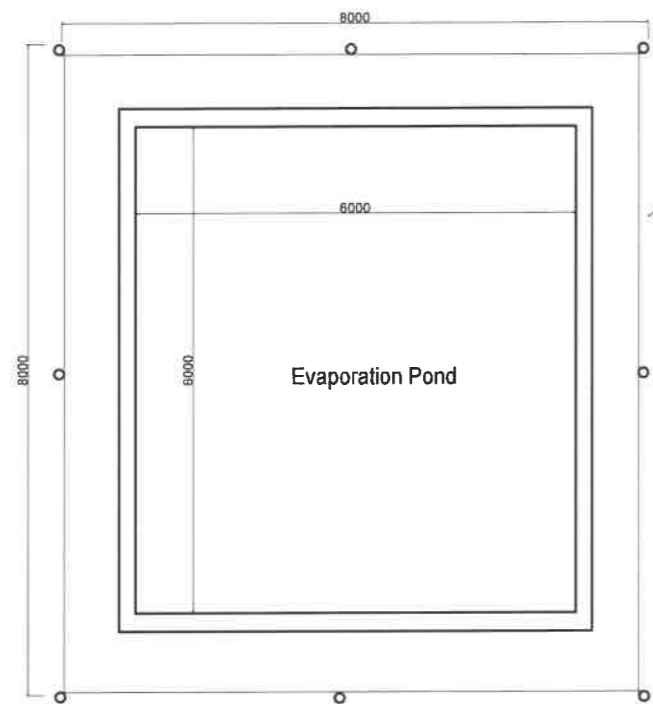


DETAIL D



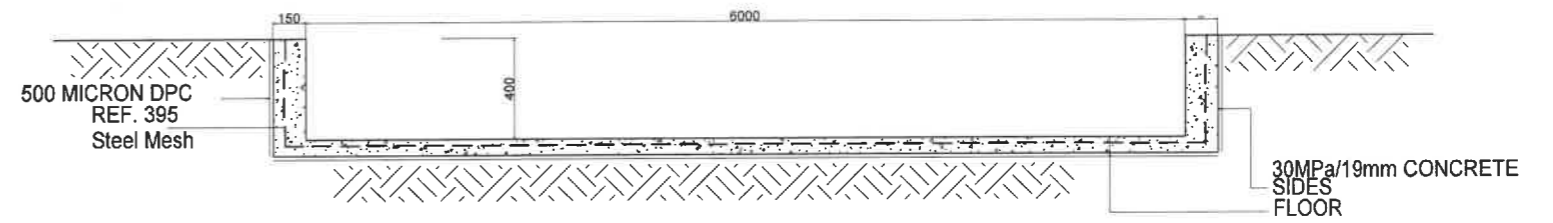
DETAIL B (EXIT STEPS SECTION)

NO.	SPECIAL NOTES:	S KONDLO (CHIEF ENGINEER)	DEPARTMENT OF RURAL DEVELOPMENT AND AGRARIAN REFORM PROVINCE OF THE EASTERN CAPE	STANDARD PLUNGE DIP (TIMBER)	SCALE	INDEX NO.
					NTS	SCMM-03/23/04
		OCTOBER 2024 (DATE APPROVED)	ENGINEERING SERVICES PRIVATE BAG X015 DOHNE ADI STUTTERHEIM 4930	DETAILS	A3 ORIGINAL	PLAN NO. SHEET 4 OF 9



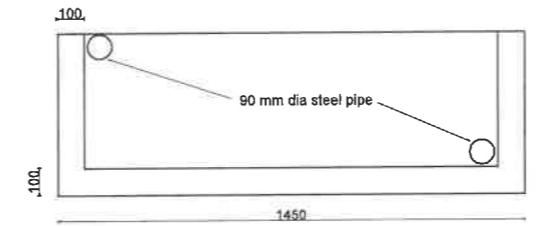
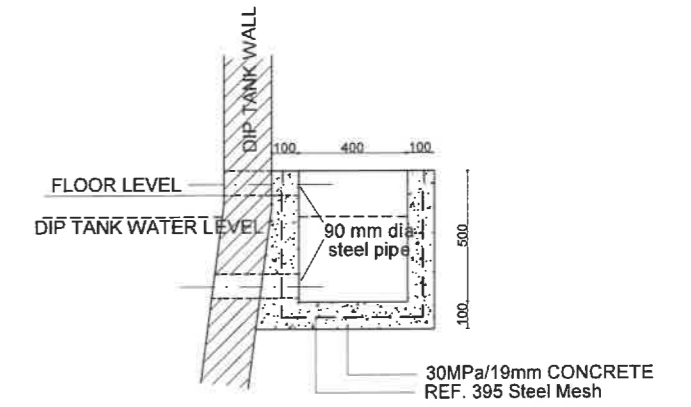
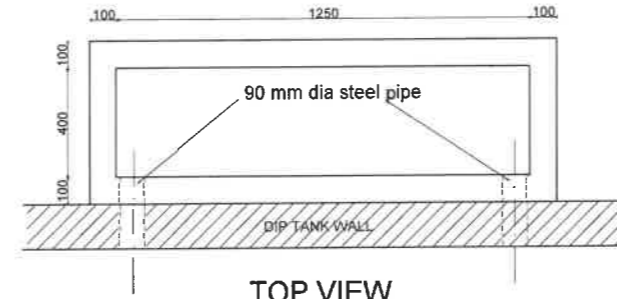
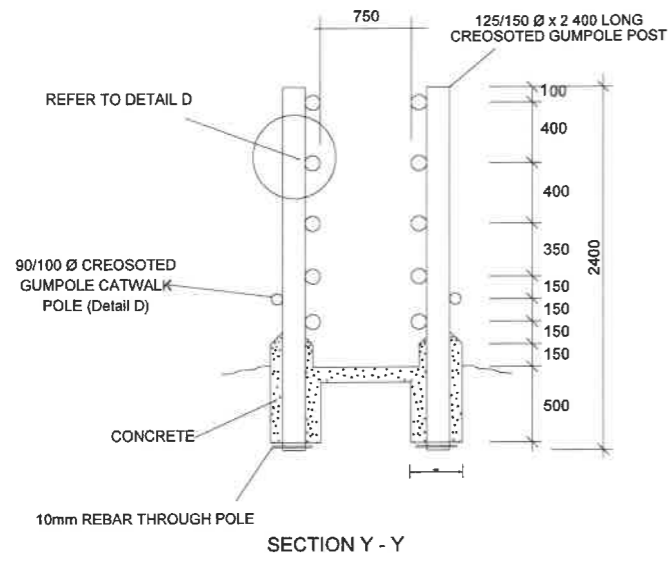
1.2m, 9 Strand
Stock proof fence

DISTANCE BETWEEN
POND FENCE AND
DIP TANK RAILS TO
BE 1000mm MIN

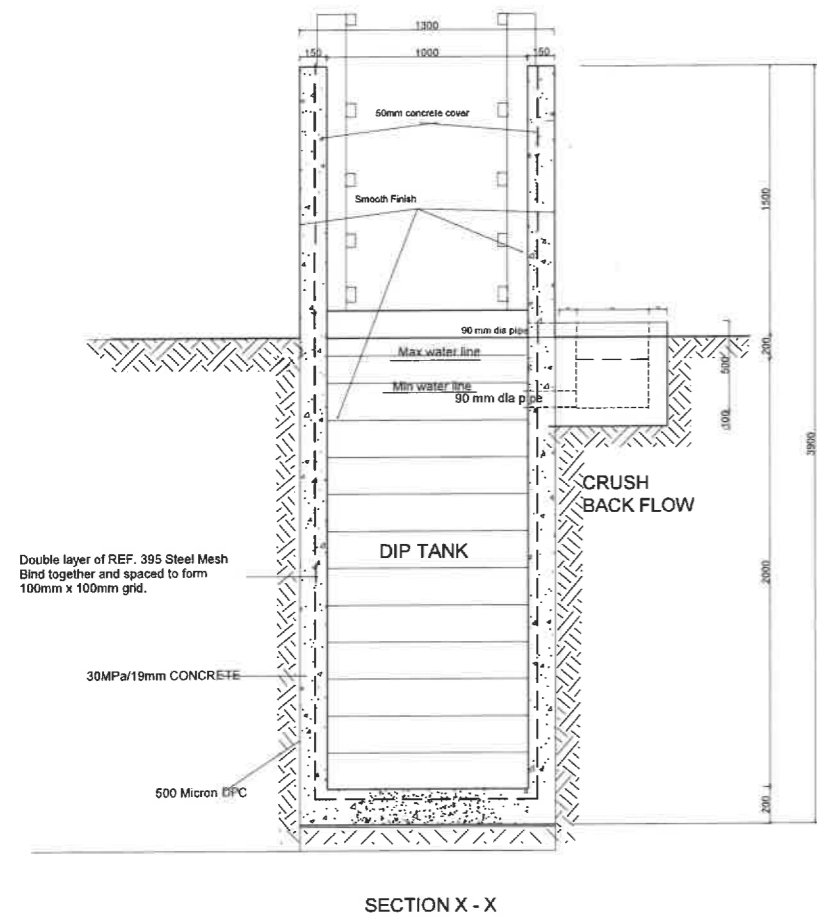
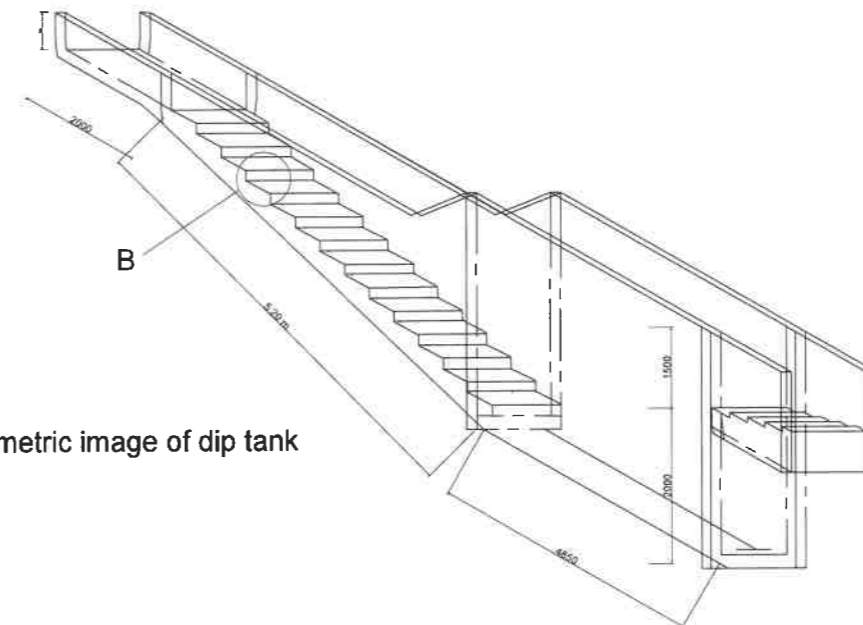


SECTION EVAPORATION POND

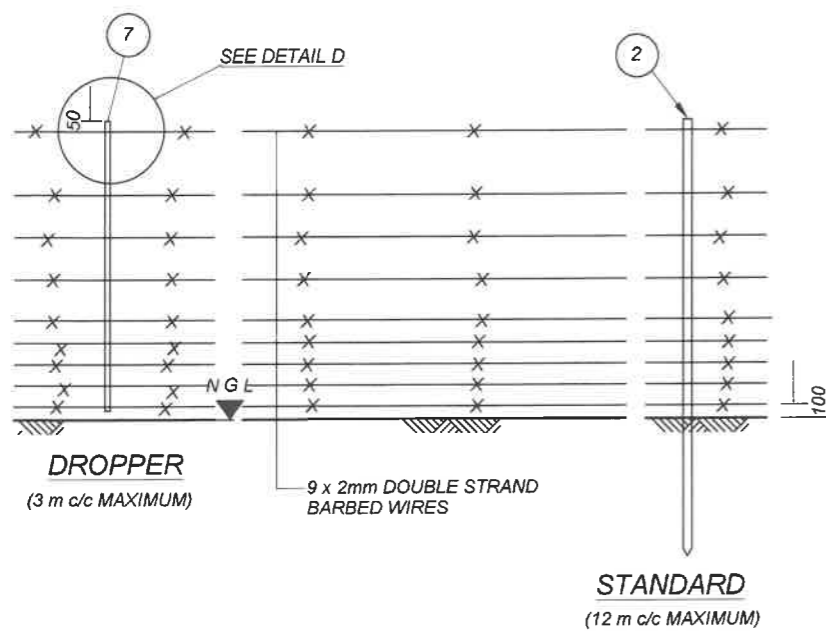
NO.	SPECIAL NOTES:	S KONDLO (CHIEF ENGINEER)	DEPARTMENT OF RURAL DEVELOPMENT AND AGRARIAN REFORM PROVINCE OF THE EASTERN CAPE	STANDARD PLUNGE DIP (TIMBER)	SCALE NTS	INDEX NO. SCMM-03/23/05
				EVAPORATION POND	A3 ORIGINAL	PLAN NO. SHEET 5 OF 9
		OCTOBER 2024 (DATE APPROVED)	ENGINEERING SERVICES PRIVATE BAG X015 DOHNE ADI STUTTERHEIM 4930			



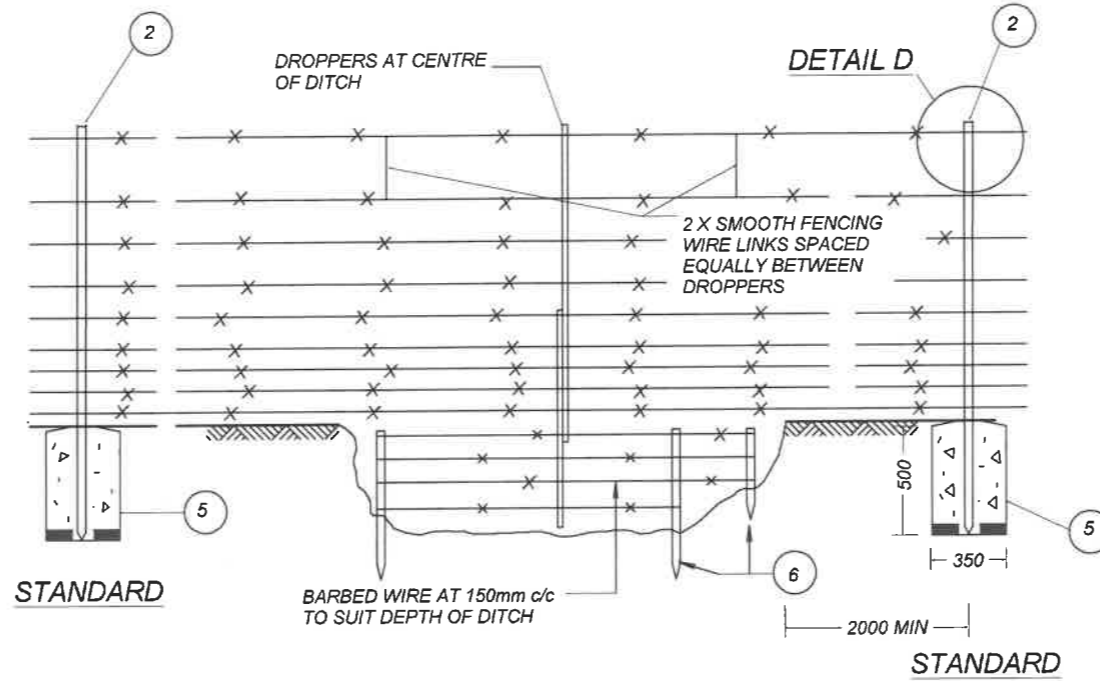
DEBRIS COLLECTOR WEIR



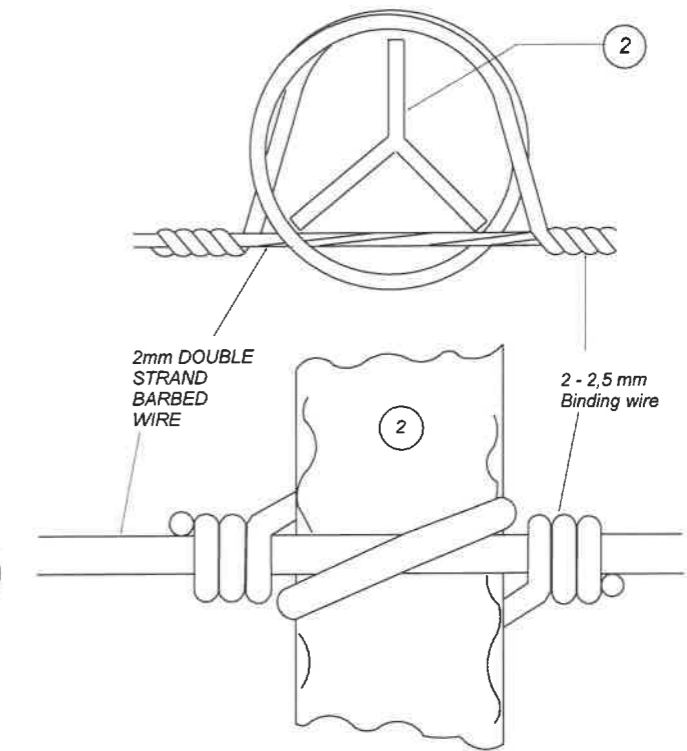
NO.	SPECIAL NOTES:	S KONDLO (CHIEF ENGINEER)	DEPARTMENT OF RURAL DEVELOPMENT AND AGRARIAN REFORM PROVINCE OF THE EASTERN CAPE	STANDARD PLUNGE DIP (TIMBER)	SCALE NTS	INDEX NO. SCMM-03/23/06
				SECTIONS	A3 ORIGINAL	PLAN NO. SHEET 6 OF 9
		OCTOBER 2024 (DATE APPROVED)	ENGINEERING SERVICES PRIVATE BAG X015 DOHNE ADI STUTTERHEIM 4930			



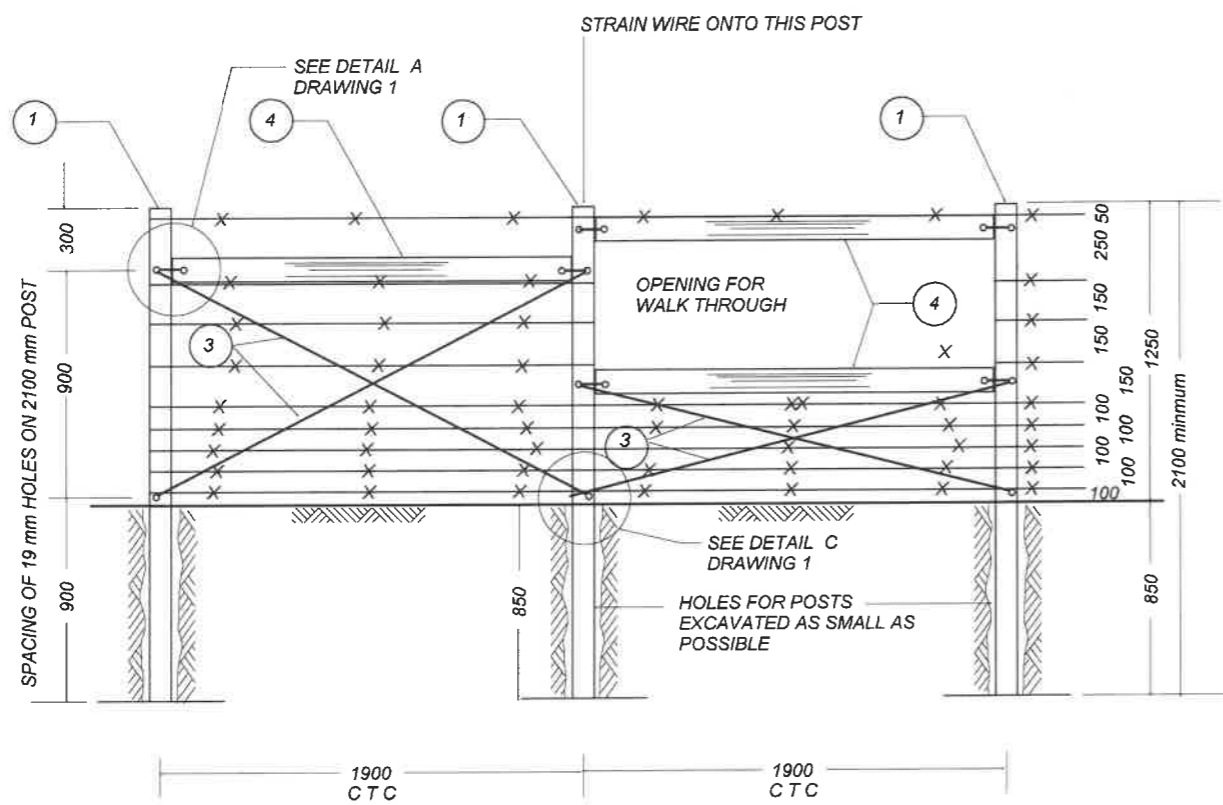
STOCK PROOF FENCE



CROSSING CANALS AND TRENCHES



DETAIL D



STRAINING POST with BOX ANCHOR WALKTHROUGH

(250m MAXIMUM SPACING)

LEGEND

- 1 — 125 - 150mm TOP DIAMETER x 2100 mm TREATED TIMBER POST CORNER, STRAINING AND ANCHOR POSTS
- 2 — 2,0 kg/m x 1800 mm Y SECTION IRON STANDARD
- 3 — 4mm x 4 STRANDS TWISTED SOFT GALVANISED BINDING WIRE
- 4 — 100 - 125mm TOP DIAMETER x 1800 mm TREATED TIMBER POST BRACES IN BOX ANCHORS
- 5 — STANDARDS EMBEDDED IN CLASS 20/19 CONCRETE IF ORDERED BY THE ENGINEER
- 6 — STAKES (DROPPER PROFILE) OF SUITABLE LENGTH DRIVEN FIRMLY INTO SIDES & BED OF TRENCH AT APPROVED SPACINGS. STAKES TO BE ALIGNED WITH & TIED TO DROPPERS WITH WIRE WHERE REQUIRED.
- 7 — 0,56 kg/m x 1150 mm RIDGEBACK PATTERN IRON DROPPER

NGL NATURAL GROUND LEVEL

NOTES:

THIS DRAWING TO BE READ IN CONJUNCTION WITH THE PROJECT PARTICULAR SPECIFICATIONS FOR FENCES

NO.	SPECIAL NOTES:

S KONDLO
(CHIEF ENGINEER)

OCTOBER 2024
(DATE APPROVED)

**DEPARTMENT OF RURAL DEVELOPMENT AND AGRARIAN REFORM
PROVINCE OF THE EASTERN CAPE**

ENGINEERING SERVICES
PRIVATE BAG X015
DOHNE ADI
STUTTERHEIM
4930

**STANDARD PLUNGE DIP
(TIMBER)**

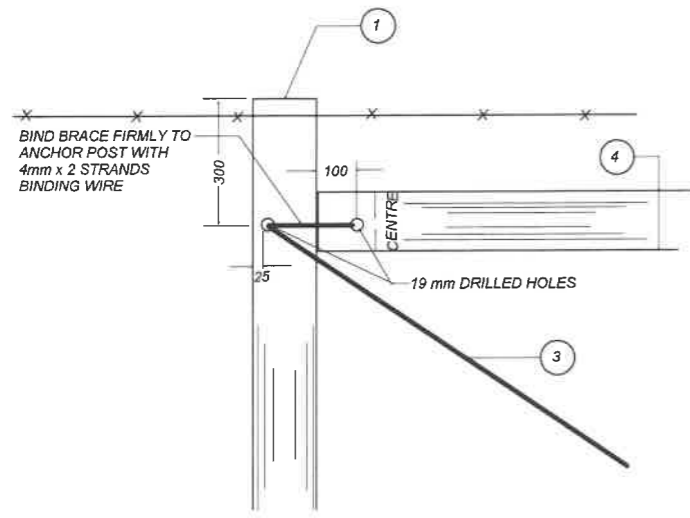
POND FENCE - 1

SCALE
NTS

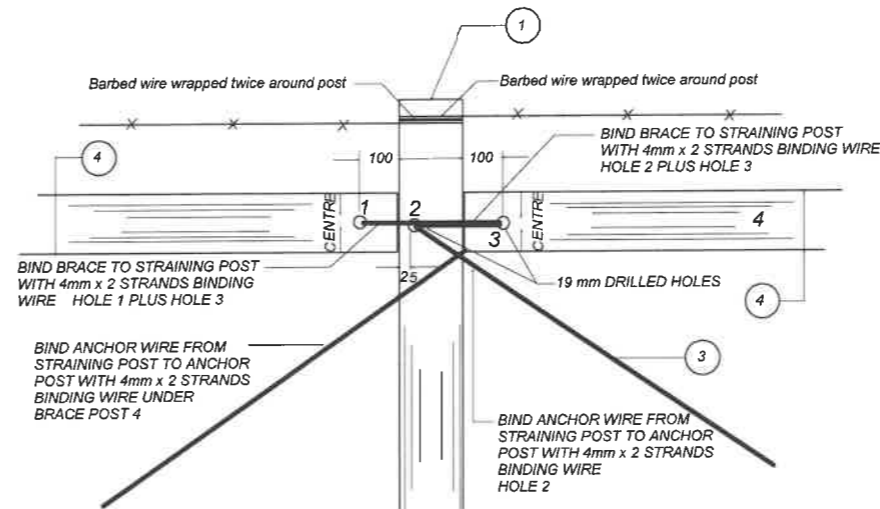
A3 ORIGINAL

INDEX NO.
SCMM-03/23/07

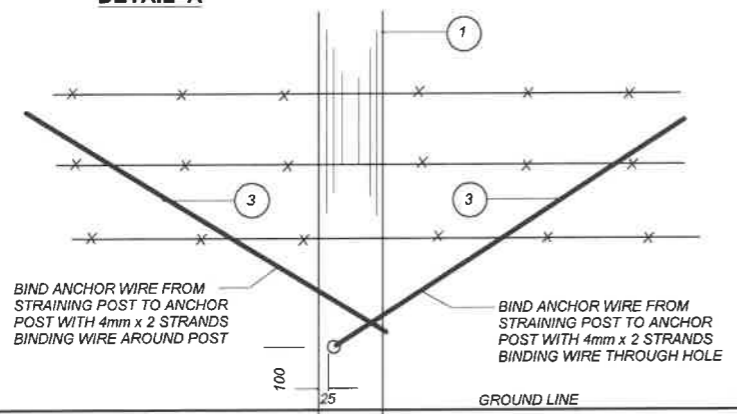
PLAN NO.
SHEET 7 OF 9



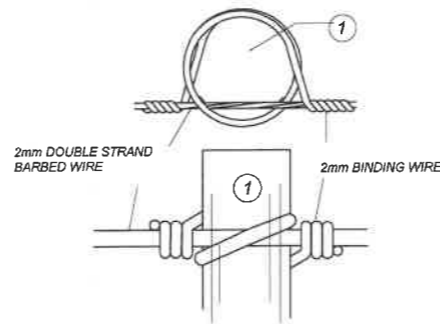
DETAIL A



DETAIL B



DETAIL C



DETAIL D

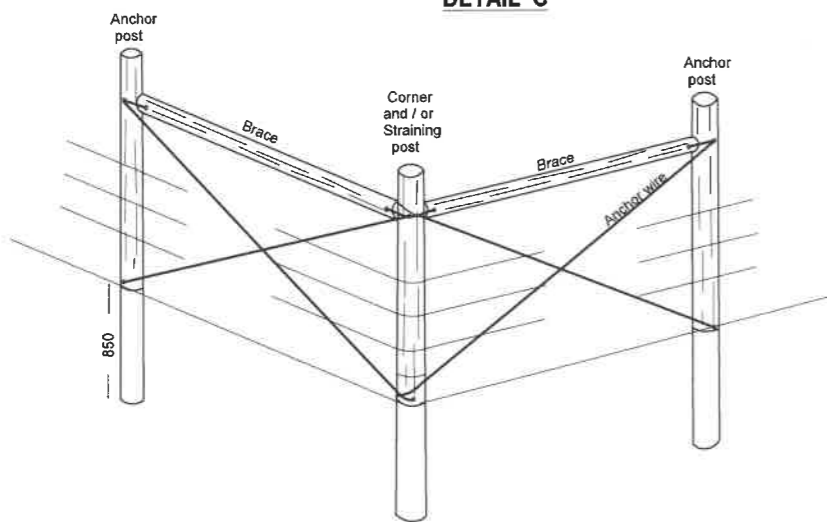
LEGEND

- 1 125 - 150mm TOP DIAMETER x 2100 mm TREATED TIMBER POST CORNER, STRAINING AND ANCHOR POSTS
- 3 4mm x 4 STRANDS TWISTED SOFT GALVANISED BINDING WIRE
- 4 100 - 125mm TOP DIAMETER x 1800 mm TREATED TIMBER POST BRACES IN BOX ANCHORS

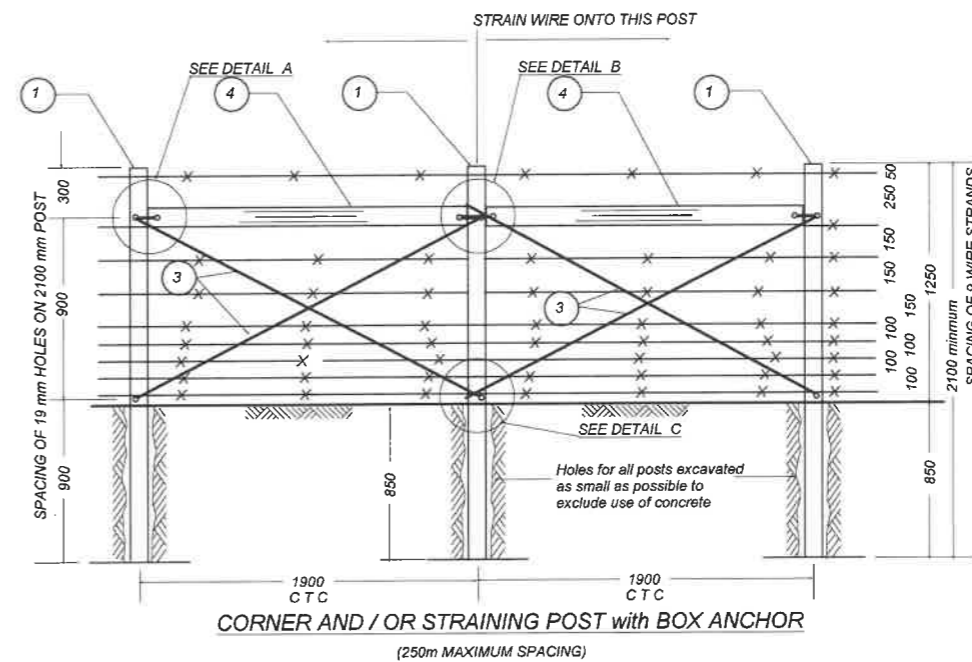
NOTES:

1. THIS DRAWING TO BE READ IN CONJUNCTION WITH THE PROJECT PARTICULAR SPECIFICATIONS FOR FENCES

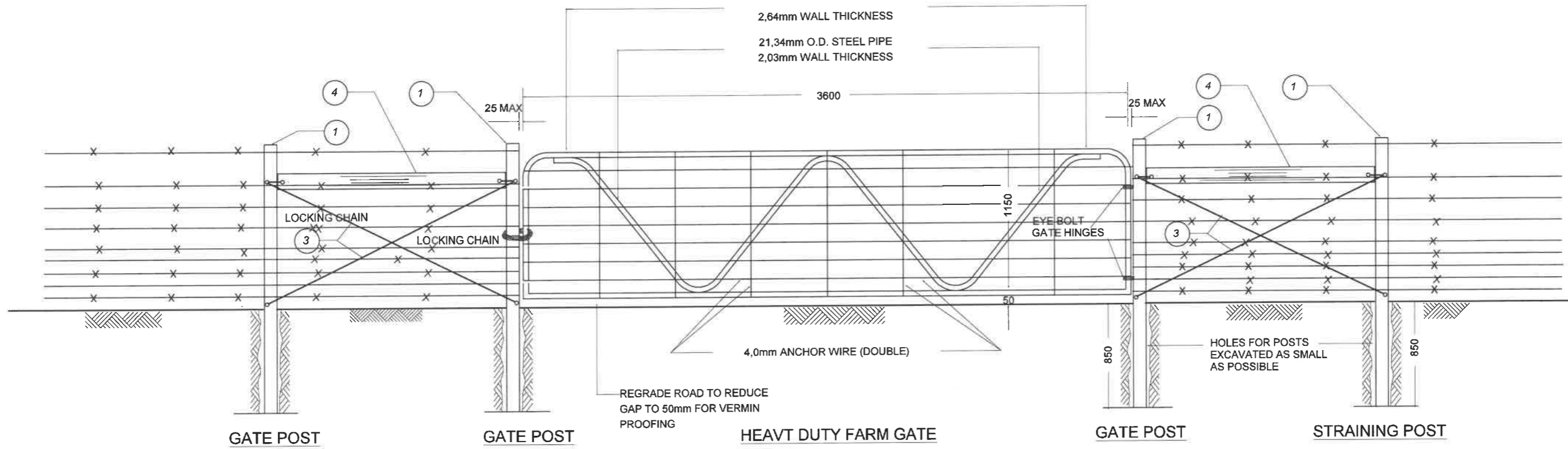
NGL NATURAL GROUND LEVEL



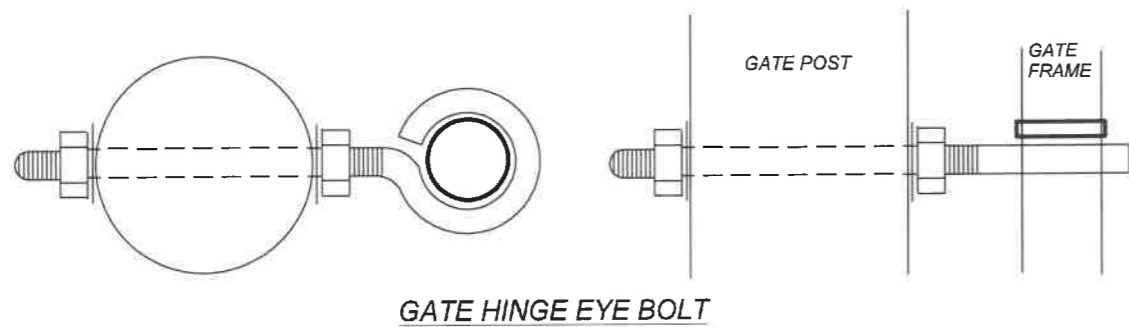
CORNER WITH BOX ANCHOR



NO.	SPECIAL NOTES:	S KONDLO (CHIEF ENGINEER)	DEPARTMENT OF RURAL DEVELOPMENT AND AGRARIAN REFORM PROVINCE OF THE EASTERN CAPE	STANDARD PLUNGE DIP (TIMBER)	SCALE	INDEX NO.
					NTS	SCMM-03/23/08
					A3 ORIGINAL	PLAN NO.
						SHEET 8 OF 9
	OCTOBER 2024 (DATE APPROVED)		ENGINEERING SERVICES PRIVATE BAG X015 DOHNE ADI STUTTERHEIM 4930	POND FENCE - 2		



FARM GATES



LEGEND

- ① 125 - 150mm TOP DIAMETER x 2100 mm TREATED TIMBER POST CORNER, STRAINING, GATE AND ANCHOR POSTS
- ③ 4mm x 4 STRANDS TWISTED SOFT GALVANISED BINDING WIRE
- ④ 100 - 125mm TOP DIAMETER x 1800 mm TREATED TIMBER POST BRACES IN BOX ANCHORS

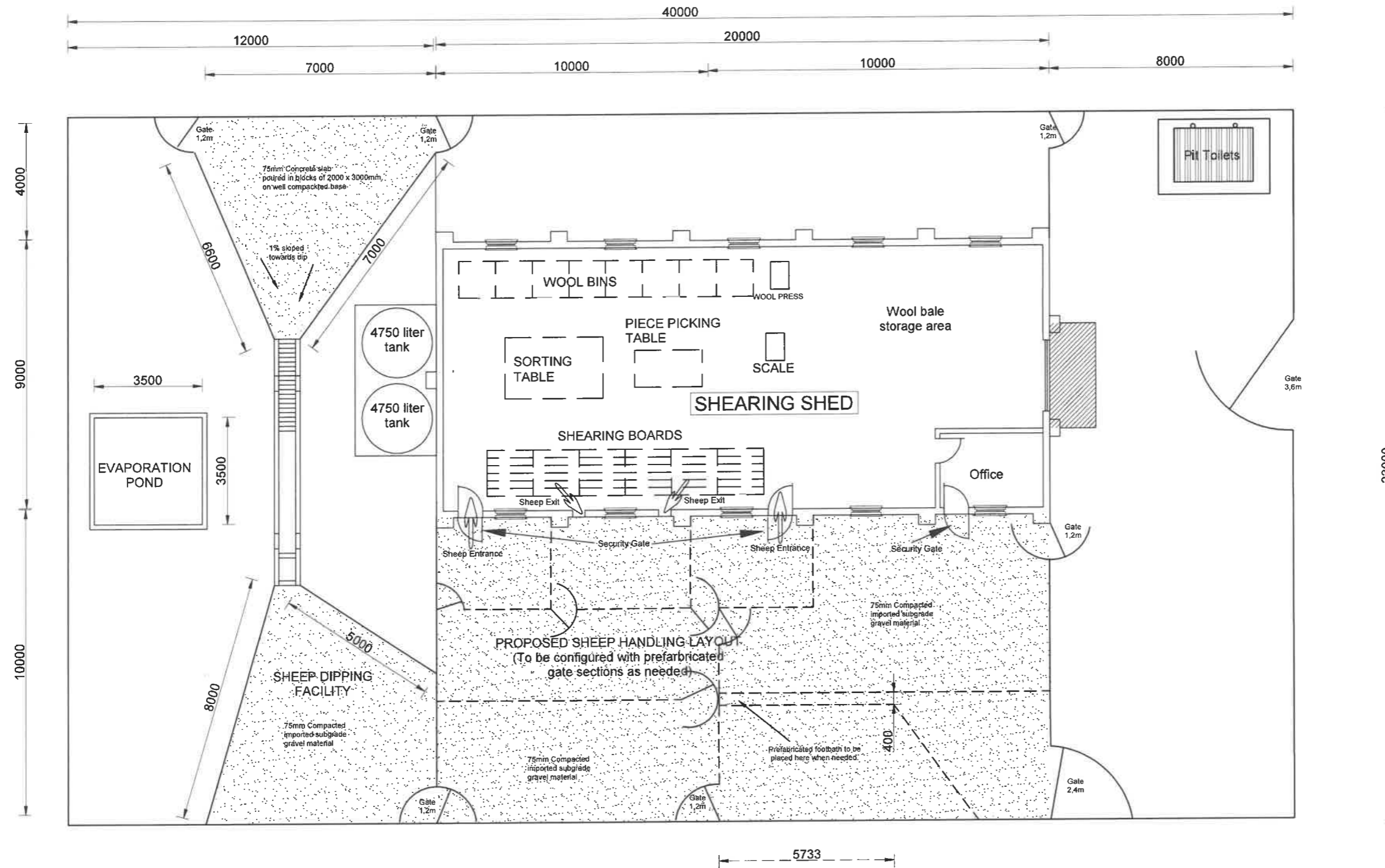
NGL NATURAL GROUND LEVEL

NOTES:

THIS DRAWING TO BE READ IN CONJUNCTION WITH THE PROJECT PARTICULAR SPECIFICATIONS FOR FENCES

NO.	SPECIAL NOTES:	S KONDLO (CHIEF ENGINEER)	DEPARTMENT OF RURAL DEVELOPMENT AND AGRARIAN REFORM PROVINCE OF THE EASTERN CAPE	STANDARD PLUNGE DIP (TIMBER)	SCALE NTS	INDEX NO. SCMM-03/23/09
				SITE LAYOUT PLAN	A3 ORIGINAL	PLAN NO. SHEET 9 OF 9
		OCTOBER 2024 (DATE APPROVED)	ENGINEERING SERVICES PRIVATE BAG X015 DOHNE ADI STUTTERHEIM 4930			

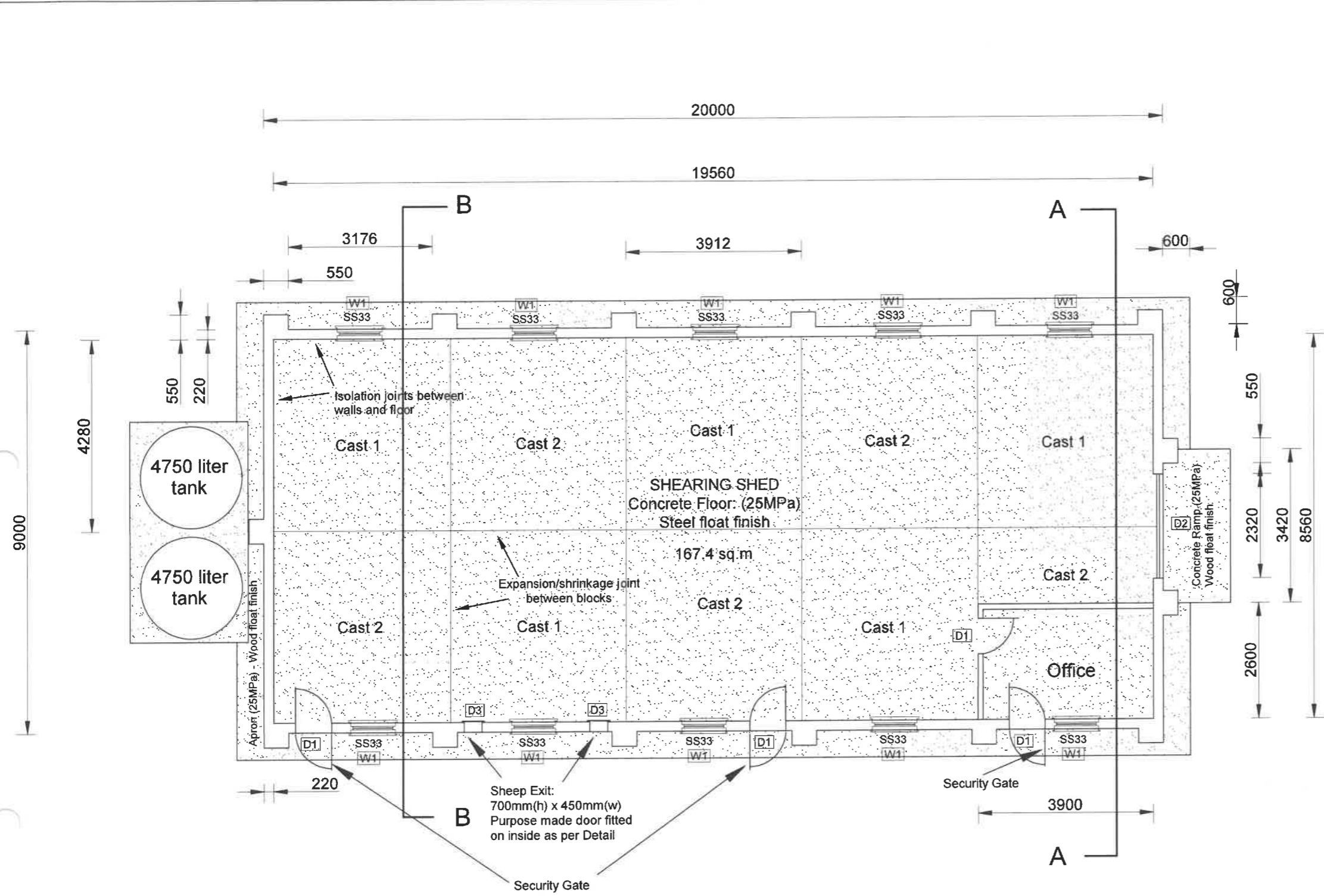
24 STANDARD SHEEP SHEARING SHED



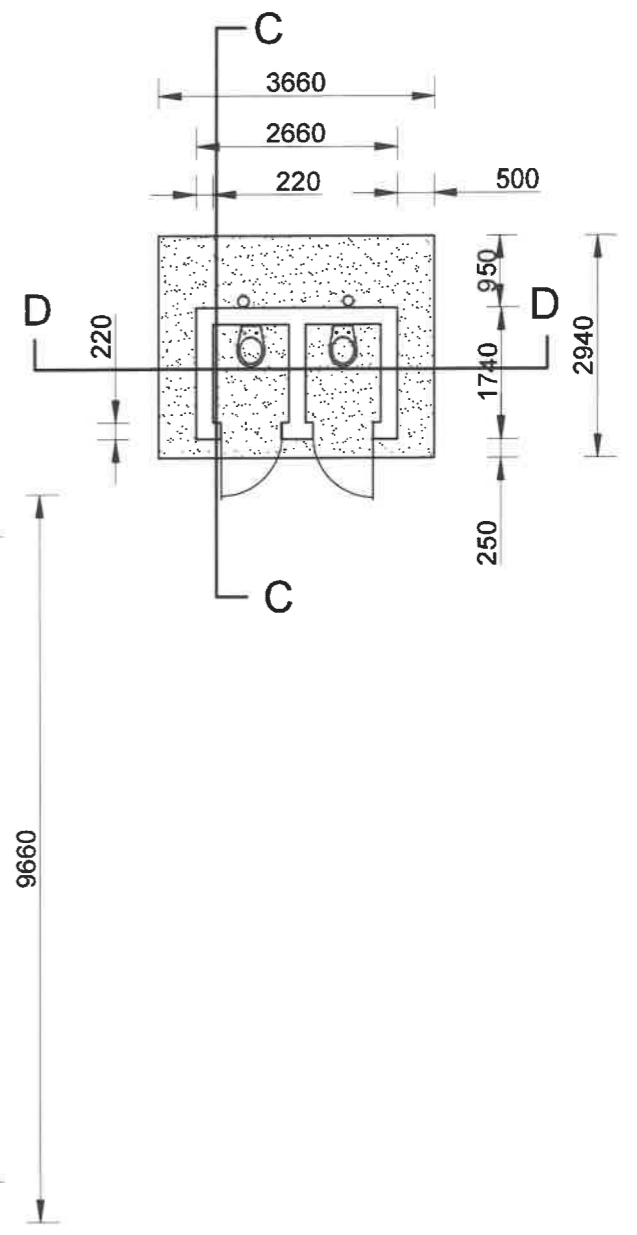
SITE LAYOUT
SCALE 1:150

NB: IT IS IMPORTANT THAT THE ATTENTION IS GIVEN TO THE SLOPE OF THE SITE, THE DRAINING TOWARDS THE SITE, AND THE DRAINAGE OF RUN-OFF WATER ON SITE.

NO.	SPECIAL NOTES:	DEPARTMENT OF RURAL DEVELOPMENT AND AGRARIAN REFORM PROVINCE OF THE EASTERN CAPE		SHEARING SHED	SCALE	INDEX NO.
		S KONDLO (CHIEF ENGINEER)	ENGINEERING SERVICES PRIVATE BAG X015 DOHNE ADI STUTTERHEIM 4930		NTS	SCMM-03/24/01
		OCTOBER 2024 (DATE APPROVED)		SITE LAYOUT PLAN	A3 ORIGINAL	PLAN NO. SHEET 1 OF 12



FLOOR PLAN
SCALE 1:100 ON A3



FLOOR CONSTRUCTION METHOD

The construction of the floor shall be constructed using the alternating block method. Concrete should be placed in alternating block. The second cast are placed several days later, when the concrete has hardened enough not to be damaged by the action of the compaction beams.

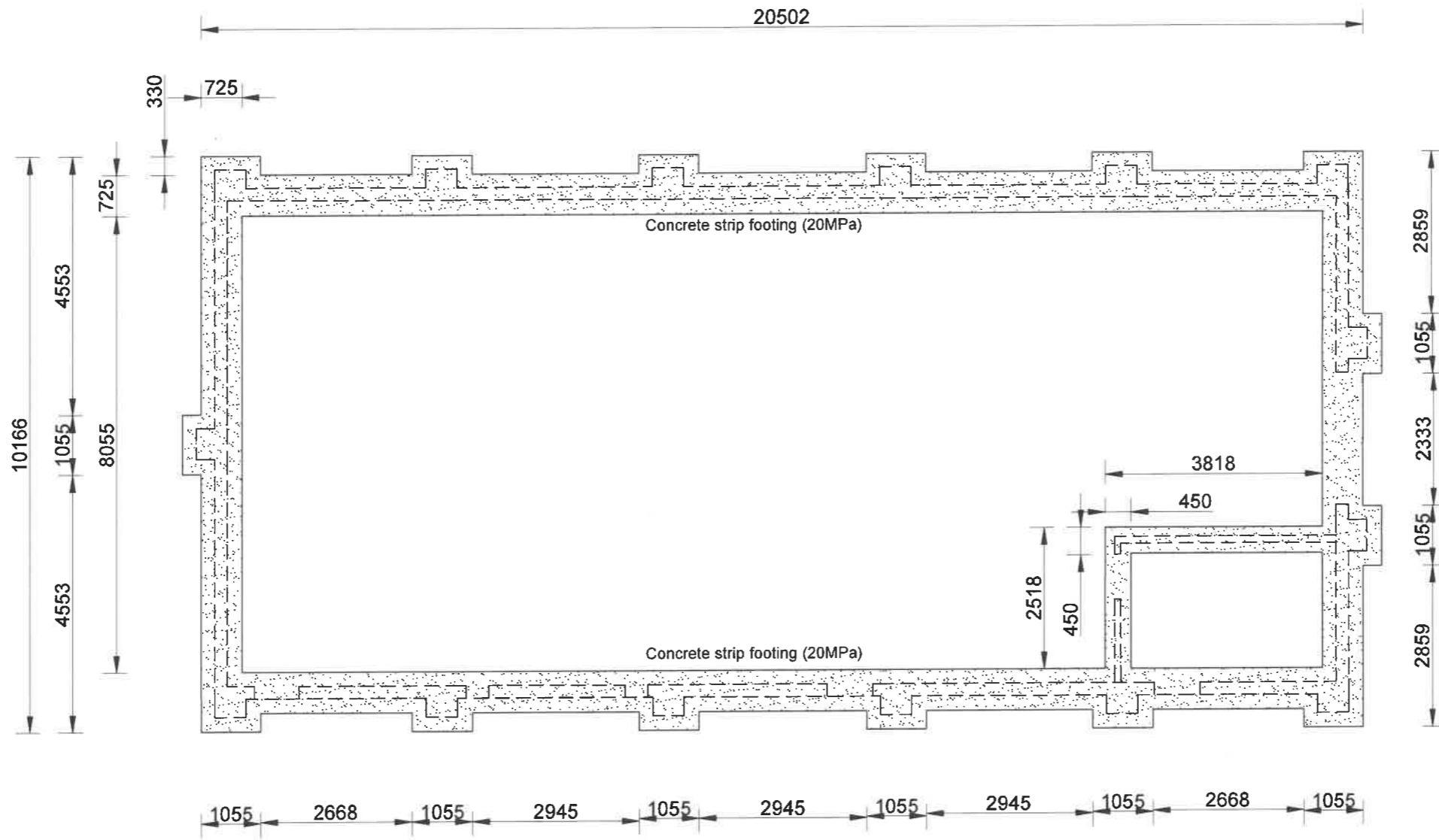
JOINTS

Joints should be aligned as shown on the Floor Plan. Isolation joints shall be placed at all connections between the slab and the walls and also between the slabs of different casts. Transversed sawn-tied joints shall be cut at the positions shown on the drawing. Initial sawcut shall be 3 mm wide at a depth of $d/4$. Top section of the sawcut shall be reamed to a minimum width of 10 mm and depth of $0.5 * d/4$. Section of joints that shall be sealed with sealant must be cleaned from all loose material and dust before sealant is placed.

SEALANT

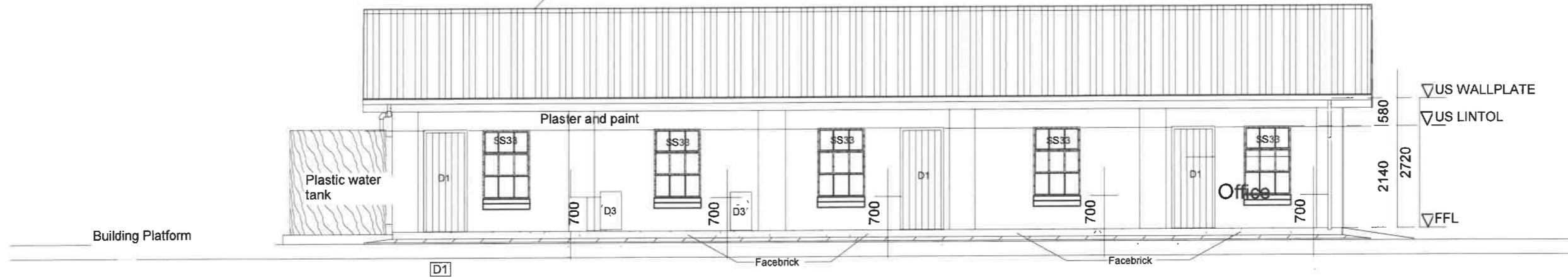
Field moulded sealant shall be used to form the sealant for the joints. Thermosetting, chemically sealant shall be used for all joints.

NO.	SPECIAL NOTES:	S KONDLO (CHIEF ENGINEER)	DEPARTMENT OF RURAL DEVELOPMENT AND AGRARIAN REFORM PROVINCE OF THE EASTERN CAPE	ENGINEERING SERVICES PRIVATE BAG X015 DOHNE ADI STUTTERHEIM 4930	SHEARING SHED	SCALE	INDEX NO.
						NTS	SCMM-03/24/02
		OCTOBER 2024 (DATE APPROVED)			FLOOR PLAN	A3 ORIGINAL	PLAN NO. SHEET 2 OF 12



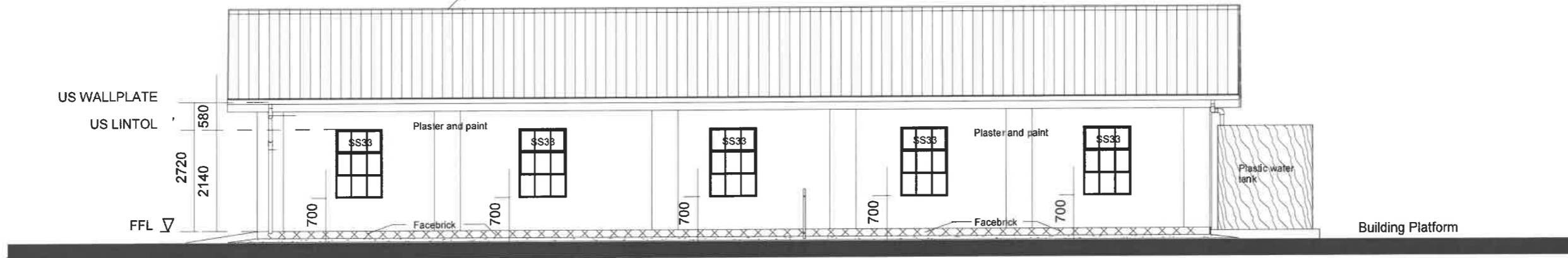
NO.	SPECIAL NOTES:	S KONDLO (CHIEF ENGINEER)	DEPARTMENT OF RURAL DEVELOPMENT AND AGRARIAN REFORM PROVINCE OF THE EASTERN CAPE ENGINEERING SERVICES PRIVATE BAG X015 DOHNE ADI STUTTERHEIM 4930	SHEARING SHED	SCALE	INDEX NO.
		OCTOBER 2024 (DATE APPROVED)			NTS	SCMM-03/24/03
				FOUNDATION LAYOUT	A3 ORIGINAL	PLAN NO. SHEET 3 OF 12

0.58mm thick galvanized IBR Chromadek roof sheeting on 50 * 75 mm timber purlins at 750 mm c/c max on prefabricated engineered timber trusses at 20 degree spaced at 1 500 mm c/c max anchored with galvanized wire straps, wrapped with 6 micron dpc and built into wall.



NORTH ELEVATION
SCALE 1:100 on (A3)

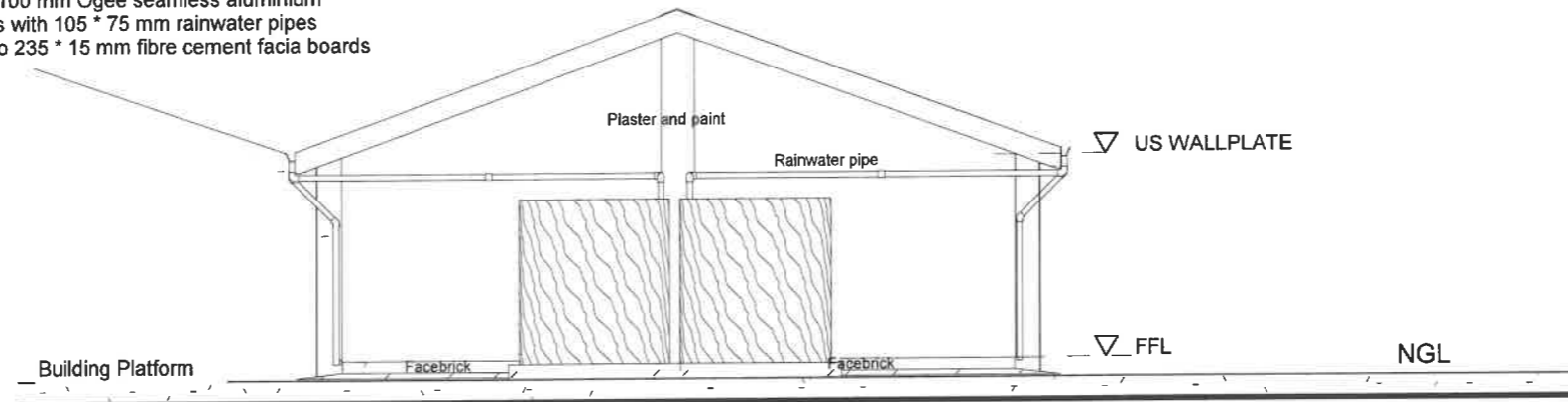
0,58 mm galvanized IBR Chromadek roof sheeting on 50 * 75 mm timber purlins at 750 mm c/c max on prefabricated engineered timber roof trusses at 20 degree spaced at 1 500 mm c/c max anchored with galvanized wire straps, wrapped with 6 micron dpc and built into wall.



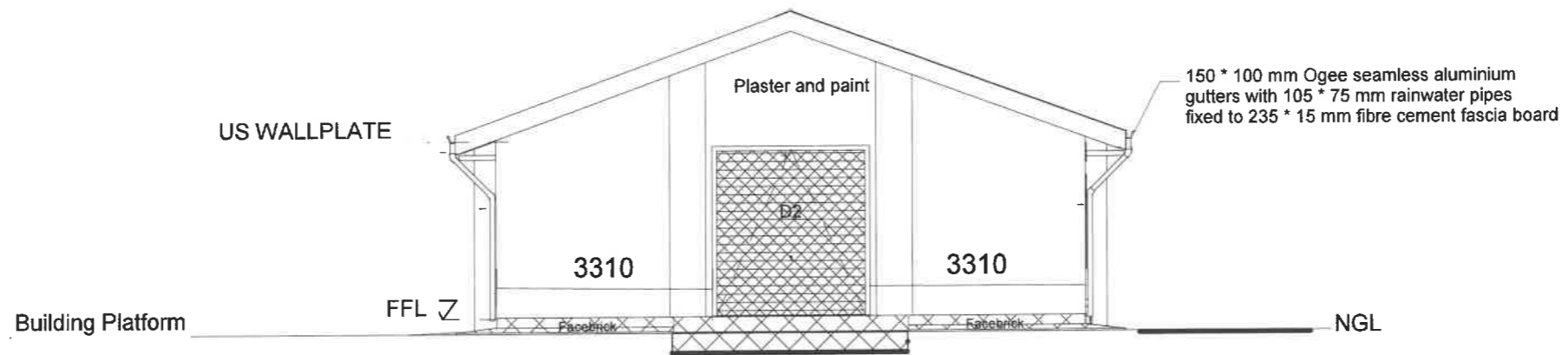
SOUTH ELEVATION
SCALE 1:100 on (A3)

NO.	SPECIAL NOTES:	S KONDLO (CHIEF ENGINEER)	DEPARTMENT OF RURAL DEVELOPMENT AND AGRARIAN REFORM PROVINCE OF THE EASTERN CAPE	SHEARING SHED	SCALE	INDEX NO.
					NTS	SCMM-03/24/04
		OCTOBER 2024 (DATE APPROVED)	ENGINEERING SERVICES PRIVATE BAG X015 DOHNE ADI STUTTERHEIM 4930	ELEVATIONS: NORTH & SOUTH	A3 ORIGINAL	PLAN NO. SHEET 4 OF 12

150 * 100 mm Ogee seamless aluminium gutters with 105 * 75 mm rainwater pipes fixed to 235 * 15 mm fibre cement fascia boards

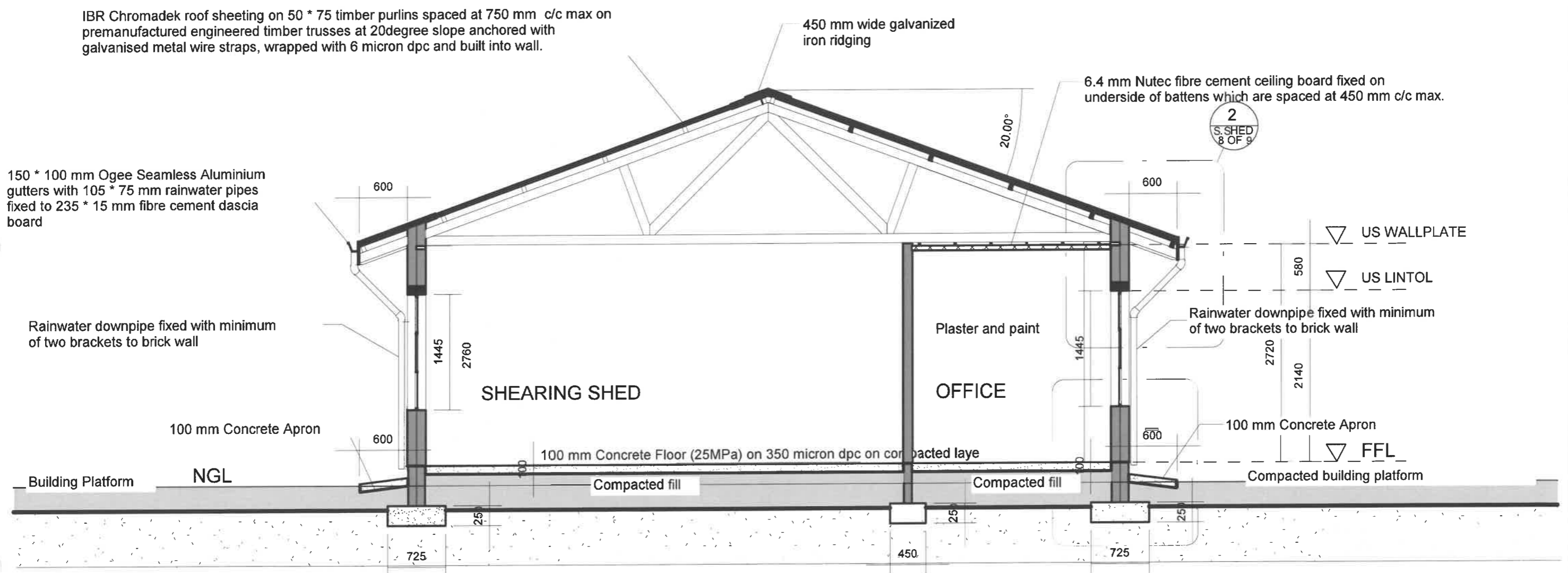


EAST ELEVATION
SCALE 1:100 on (A3)



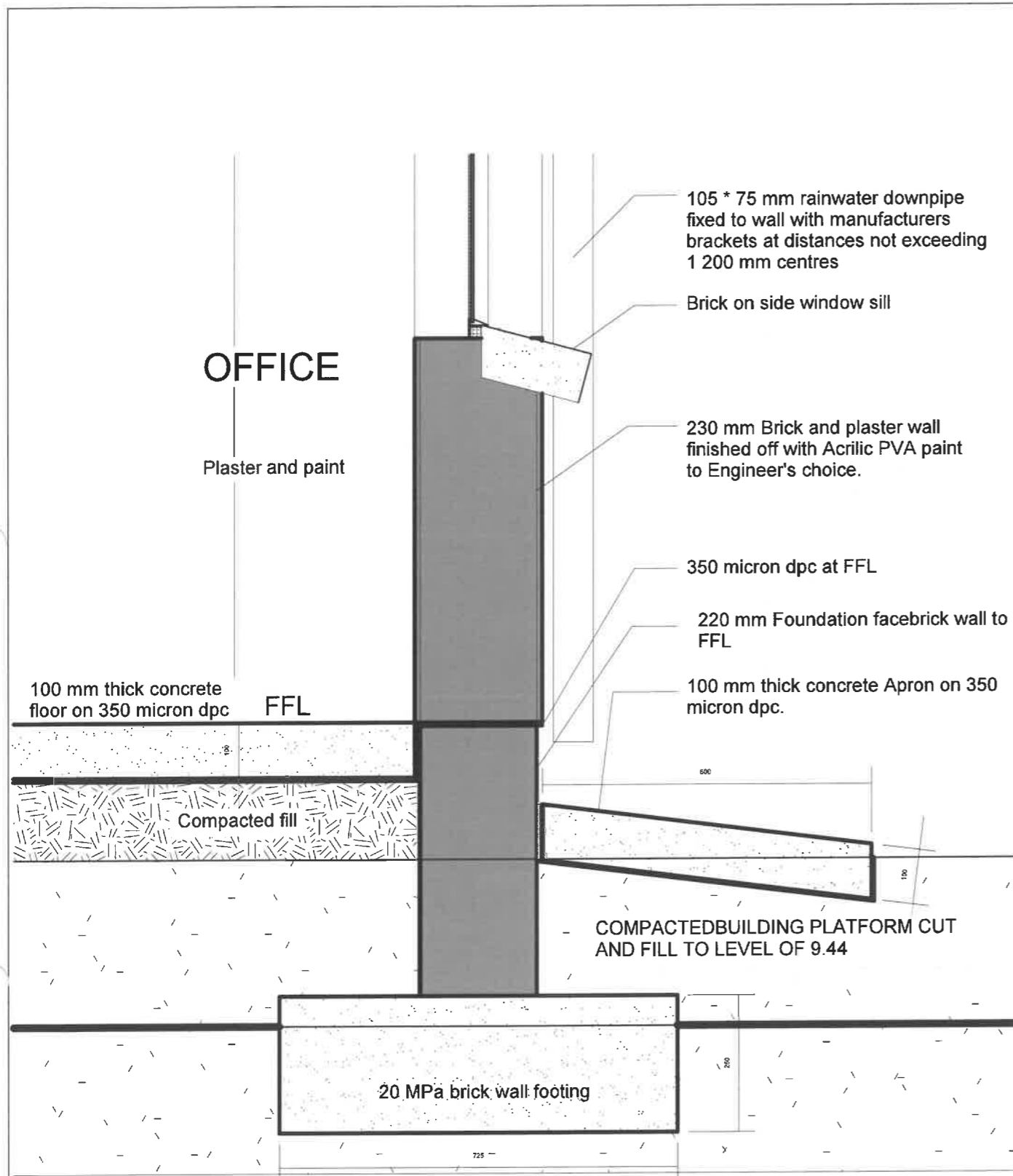
WEST ELEVATION
SCALE 1:100 on (A3)

NO.	SPECIAL NOTES:	S KONDLO (CHIEF ENGINEER)	DEPARTMENT OF RURAL DEVELOPMENT AND AGRARIAN REFORM PROVINCE OF THE EASTERN CAPE	SHEARING SHED	SCALE	INDEX NO.
					NTS	SCMM-03/24/05
	OCTOBER 2024 (DATE APPROVED)		ENGINEERING SERVICES PRIVATE BAG X015 DOHNE ADI STUTTERHEIM 4930	ELEVATIONS: EAST & WEST	A3 ORIGINAL	PLAN NO. SHEET 5 OF 12

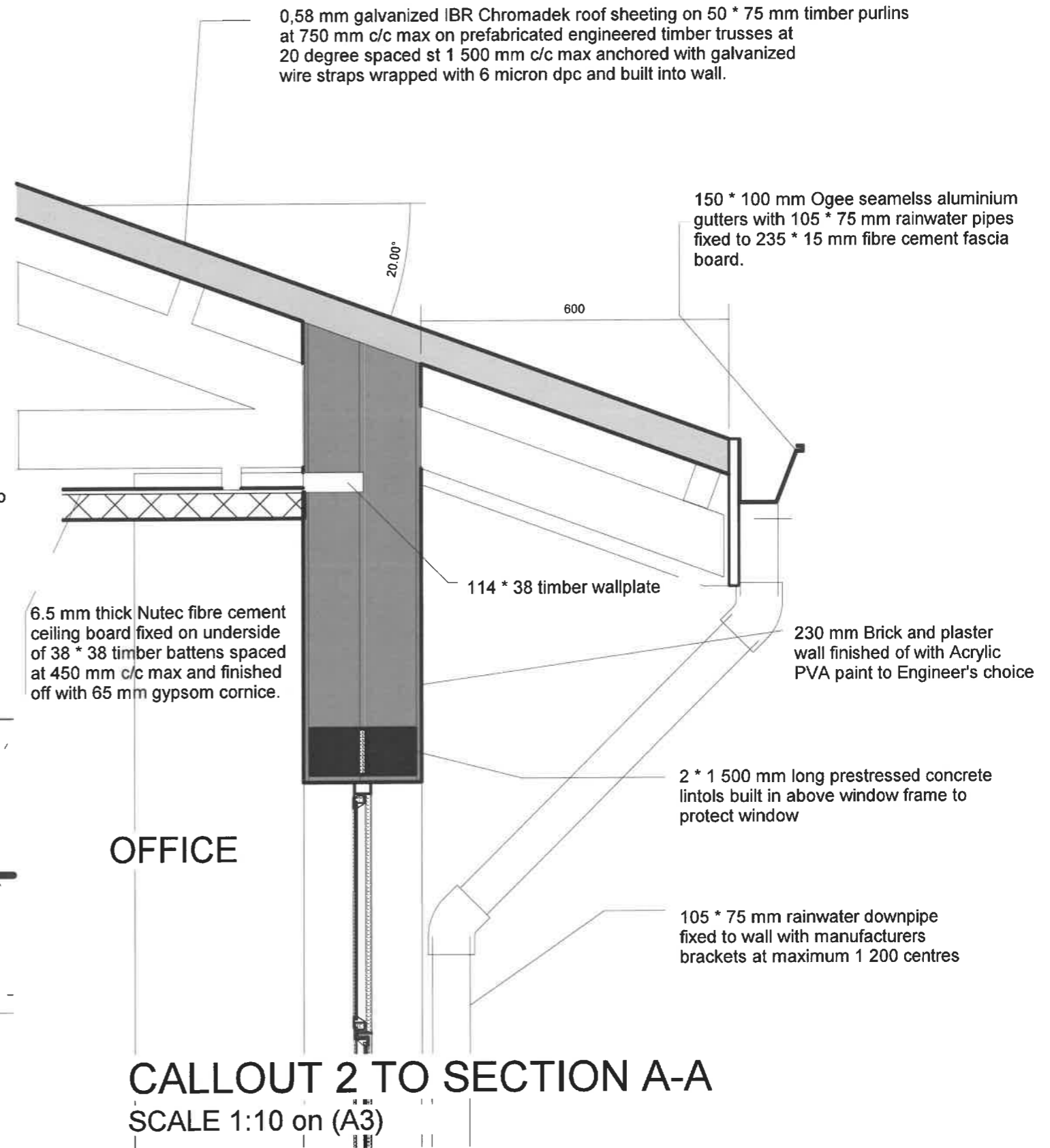


SECTION A - A
SCALE 1: 50 on (A3)

NO.	SPECIAL NOTES:	S KONDLO (CHIEF ENGINEER)	DEPARTMENT OF RURAL DEVELOPMENT AND AGRARIAN REFORM PROVINCE OF THE EASTERN CAPE	SHEARING SHED	SCALE	INDEX NO.
				SECTION A-A	NTS	SCMM-03/24/06
		OCTOBER 2024 (DATE APPROVED)	ENGINEERING SERVICES PRIVATE BAG X015 DOHNE ADI STUTTERHEIM 4930		A3 ORIGINAL	PLAN NO. SHEET 6 OF 12



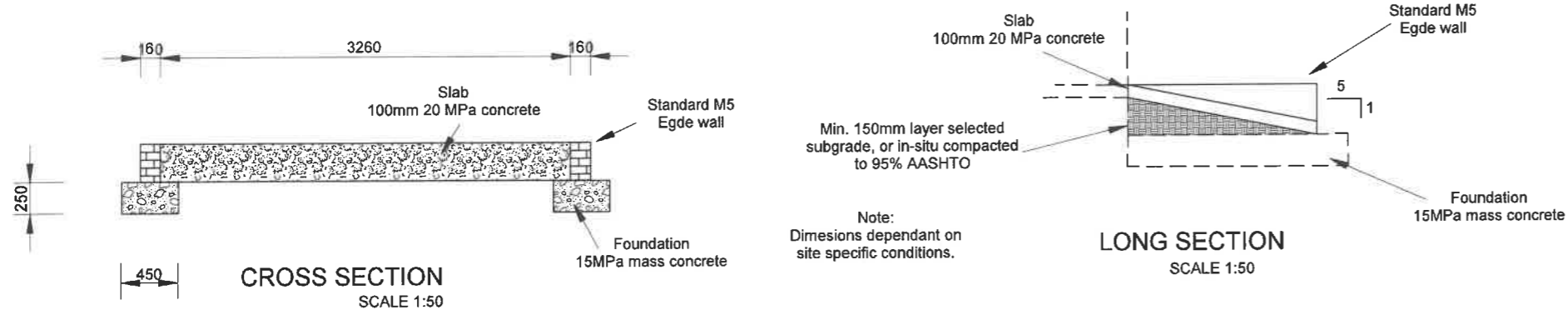
CALLOUT 1 TO SECTION A-A
SCALE 1:10 on (A3)



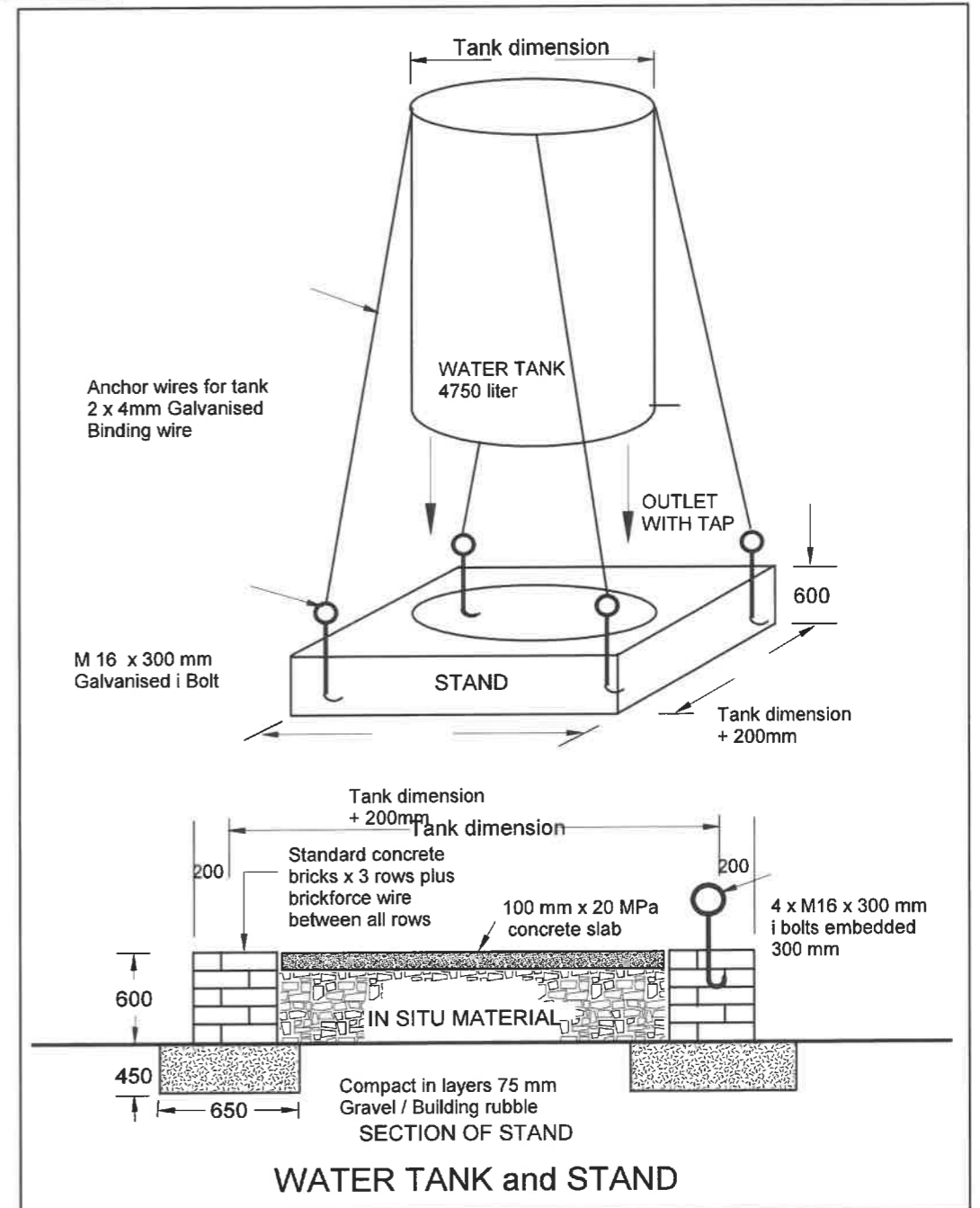
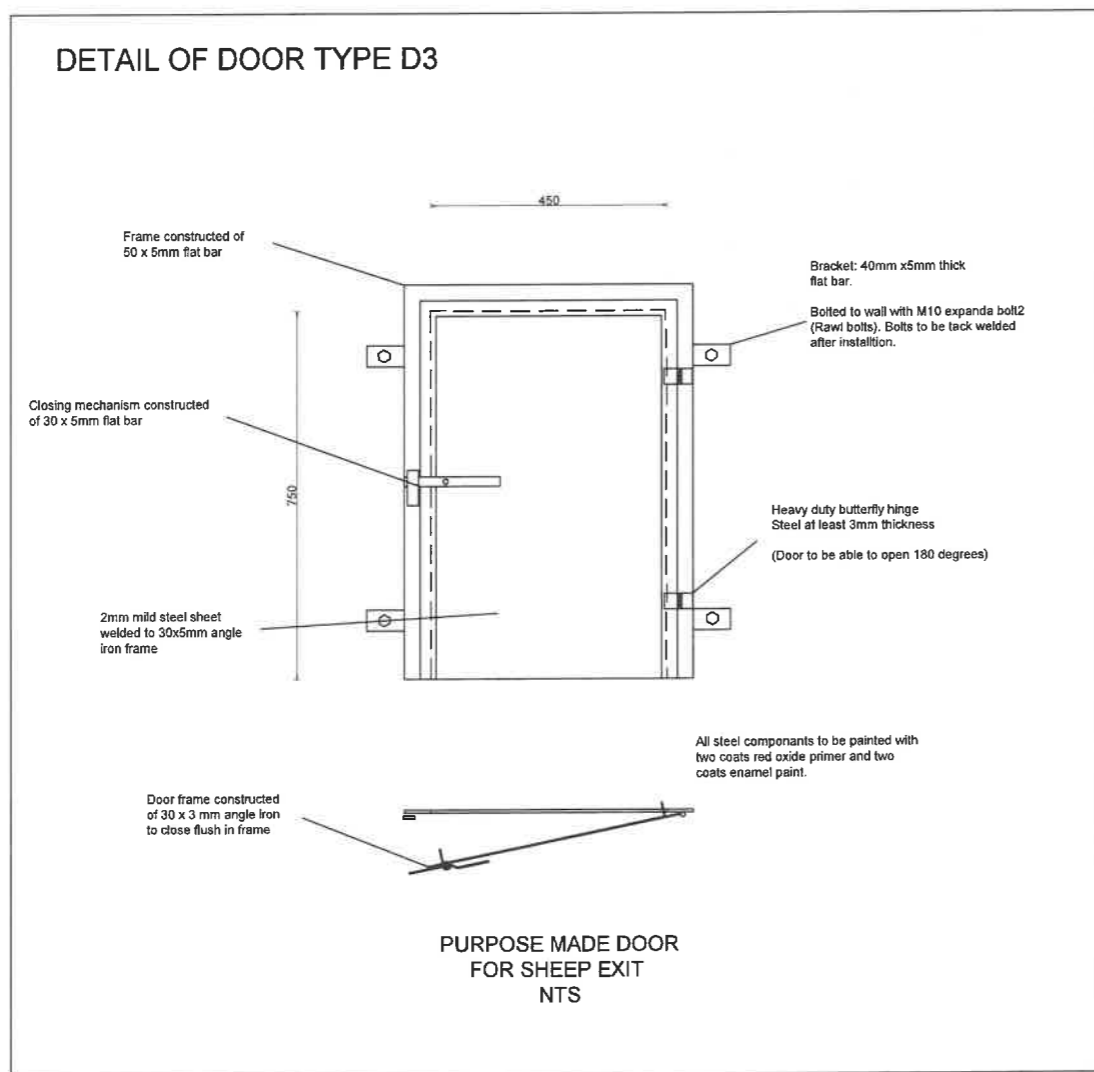
CALLOUT 2 TO SECTION A-A
SCALE 1:10 on (A3)

NO.	SPECIAL NOTES:	S KONDLO (CHIEF ENGINEER)	DEPARTMENT OF RURAL DEVELOPMENT AND AGRARIAN REFORM PROVINCE OF THE EASTERN CAPE	ENGINEERING SERVICES PRIVATE BAG X015 DOHNE ADI STUTTERHEIM 4930	SHEARING SHED	SCALE NTS	INDEX NO. SCMM-03/24/07
					CALLOUTS	A3 ORIGINAL	PLAN NO. SHEET 7 OF 12

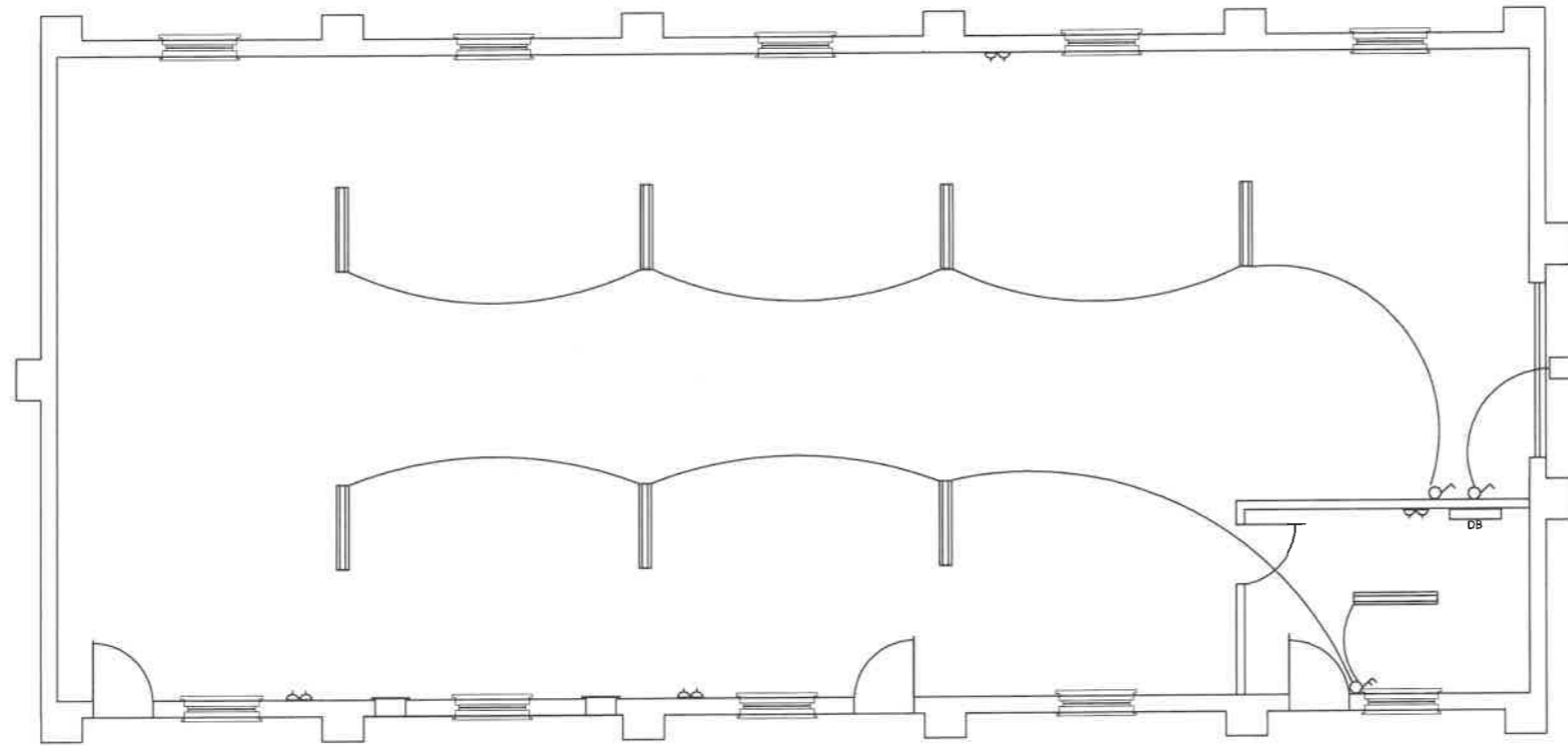
DETAIL OF CONCRETE RAMP



DETAIL OF DOOR TYPE D3



NO.	SPECIAL NOTES:	S KONDLO (CHIEF ENGINEER)	DEPARTMENT OF RURAL DEVELOPMENT AND AGRARIAN REFORM PROVINCE OF THE EASTERN CAPE	ENGINEERING SERVICES PRIVATE BAG X015 DOHNE ADI STUTTERHEIM 4930	SHEARING SHED	SCALE	INDEX NO.
						NTS	SCMM-03/24/08
		OCTOBER 2024 (DATE APPROVED)			DETAILS	A3 ORIGINAL	PLAN NO. SHEET 8 OF 12



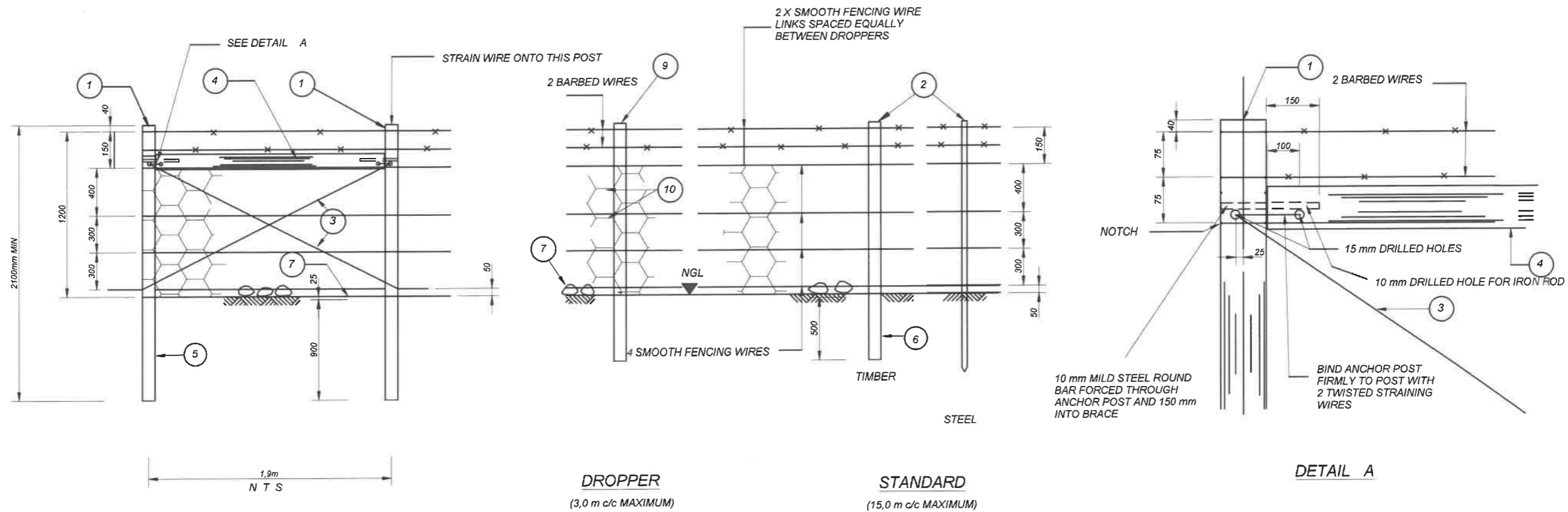
LEGEND

	Distribution Board
	Electrical equipment Socket Double
	Electrical equipment Switch Double
	Electrical equipment Switch Single
	Light fixture Luminary with cover Double Fluorescent 2 x 58 Watt
	Light fixture Area Floodlight 100W LED

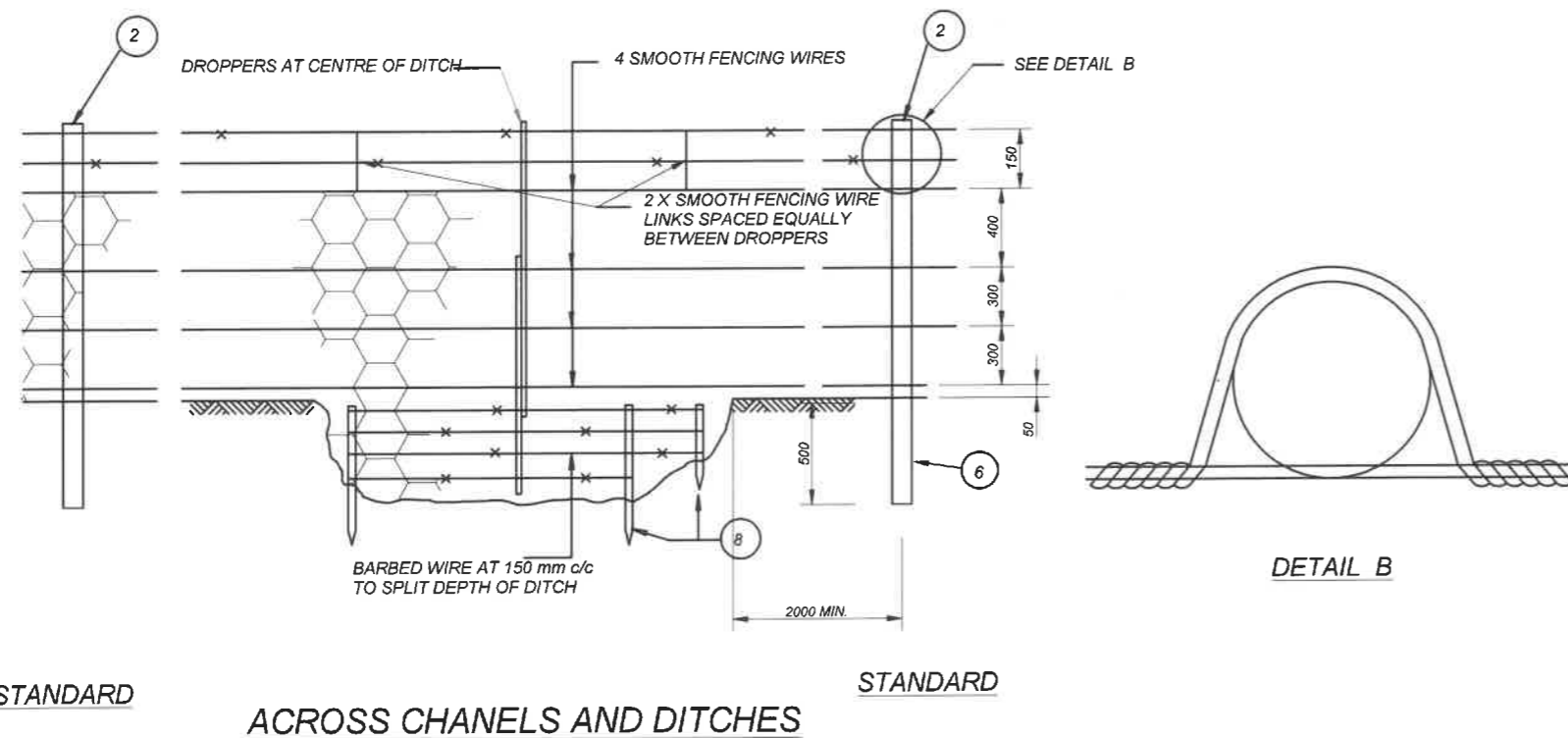
ELECTRICAL LAYOUT PLAN

SCALE 1:100 ON A3

NO.	SPECIAL NOTES:	S KONDLO (CHIEF ENGINEER)	DEPARTMENT OF RURAL DEVELOPMENT AND AGRARIAN REFORM PROVINCE OF THE EASTERN CAPE	SHEARING SHED		SCALE	INDEX NO.
				ELECTRICAL LAYOUT		NTS	SCMM-03/24/09
		OCTOBER 2024 (DATE APPROVED)	ENGINEERING SERVICES PRIVATE BAG X015 DOHNE ADI STUTTERHEIM 4930			A3 ORIGINAL	PLAN NO. SHEET 9 OF 12



GENERAL DETAILS OF FENCING



LEGEND

- 1 — 125 - 150 mm TOP DIAMETER TREATED TIMBER POLE 2100 mm LONG
- 2 — 100 - 125 mm TOP DIAMETER TREATED TIMBER POLE 1850 mm LONG OR 2,5 kg/m Y STEEL STANDARD
- 3 — DOUBLE TWISTED 4 mm ANCHOR WIRE STRAPS
- 4 — ANCHOR POST. 100 - 125 mm TOP DIAMETER TREATED TIMBER POLE APPROX. A850 mm LONG SEE DETAIL A
- 5 — CORNER AND STRAINING POSTS PLACED IN WELL COMPACTED IN-SITO MATERIAL
- 6 — LINE POSTS AT 3m SPACING, PLACED IN WELL COMPACTED SOIL.
- 7 — NATURAL GROUND LEVEL AT FOOT OF FENCE TO BE PACKED WITH STONE
- 8 — STAKES (DROPPER PROFILE) OF SUITABLE LENGTH DRIVEN INTO SIDES & BED OF TRENCH AT APPROVED SPACINGS AND TIED TO AT LEAST TWO FENCE WIRES. STAKES TO BE ALIGNED WITH & TIED TO DROPPERS WITH WIRE WHERE REQUIRED.
- 9 — LINE POSTS AT 3m SPACING, PLACED IN WELL COMPACTED SOIL.
- 10 — 75 mm HEXAGONAL WIRE NETTING OF 1,8 mm DIAMETER GALVANIZED MILD STEEL 1200 mm WIDE

NGL NATURAL GROUND LEVEL

NOTES: 1. NOTCHES REQUIRED FOR CORNER POSTS, STRAINING POSTS, STANDARDS AND DROPPERS
 2. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE PROJECT PARTICULAR SPECIFICATIONS FOR FENCES

NO.	SPECIAL NOTES:

S KONDLO
(CHIEF ENGINEER)

OCTOBER 2024
(DATE APPROVED)

**DEPARTMENT OF RURAL DEVELOPMENT AND AGRARIAN REFORM
 PROVINCE OF THE EASTERN CAPE**
 ENGINEERING SERVICES
 PRIVATE BAG X015
 DOHNE ADI
 STUTTERHEIM
 4930

SHEARING SHED FENCE

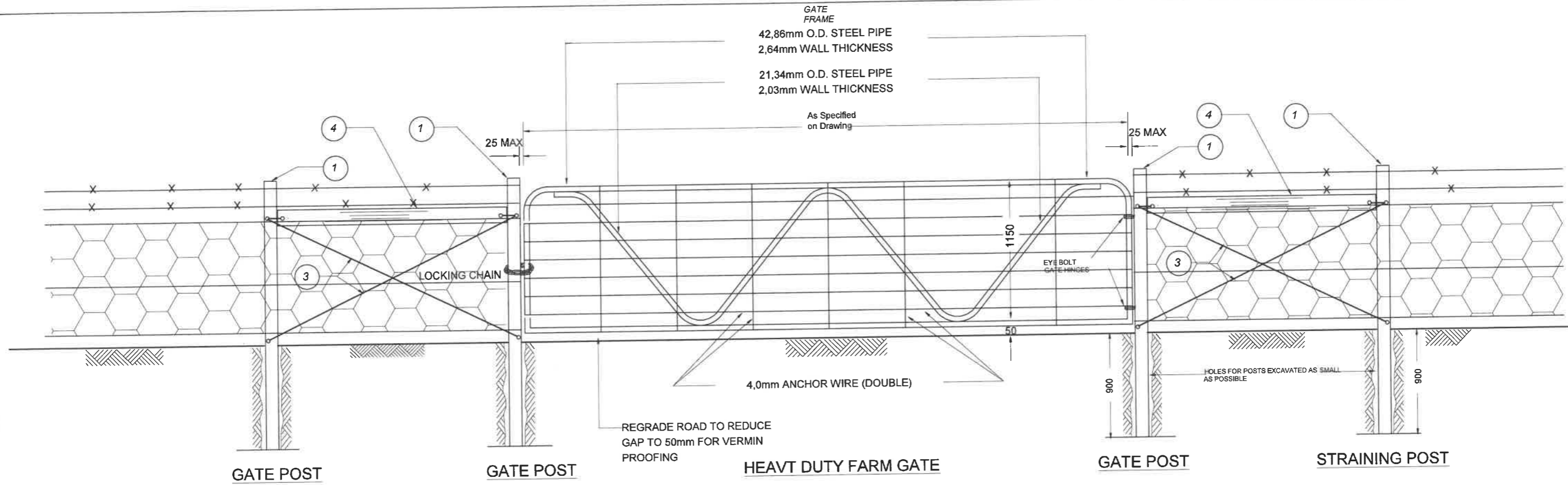
FENCE

SCALE
NTS

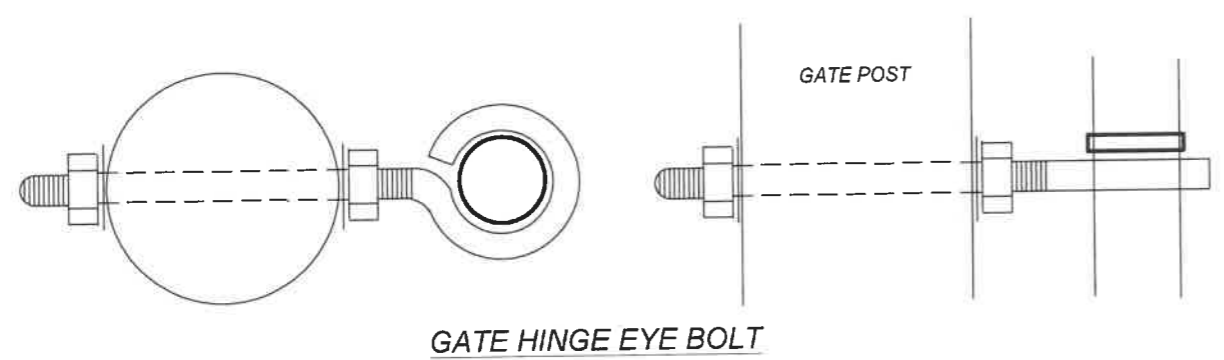
A3 ORIGINAL

INDEX NO.
SCMM-03/24/10

PLAN NO.
SHEET 10 OF 12



FARM GATES



LEGEND

1 — 125 - 150mm TOP DIAMETER x 2100 mm TREATED TIMBER POST
CORNER, STRAINING, GATE AND ANCHOR POSTS

3 — 4mm x 4 STRANDS TWISTED SOFT GALVANISED BINDING WIRE

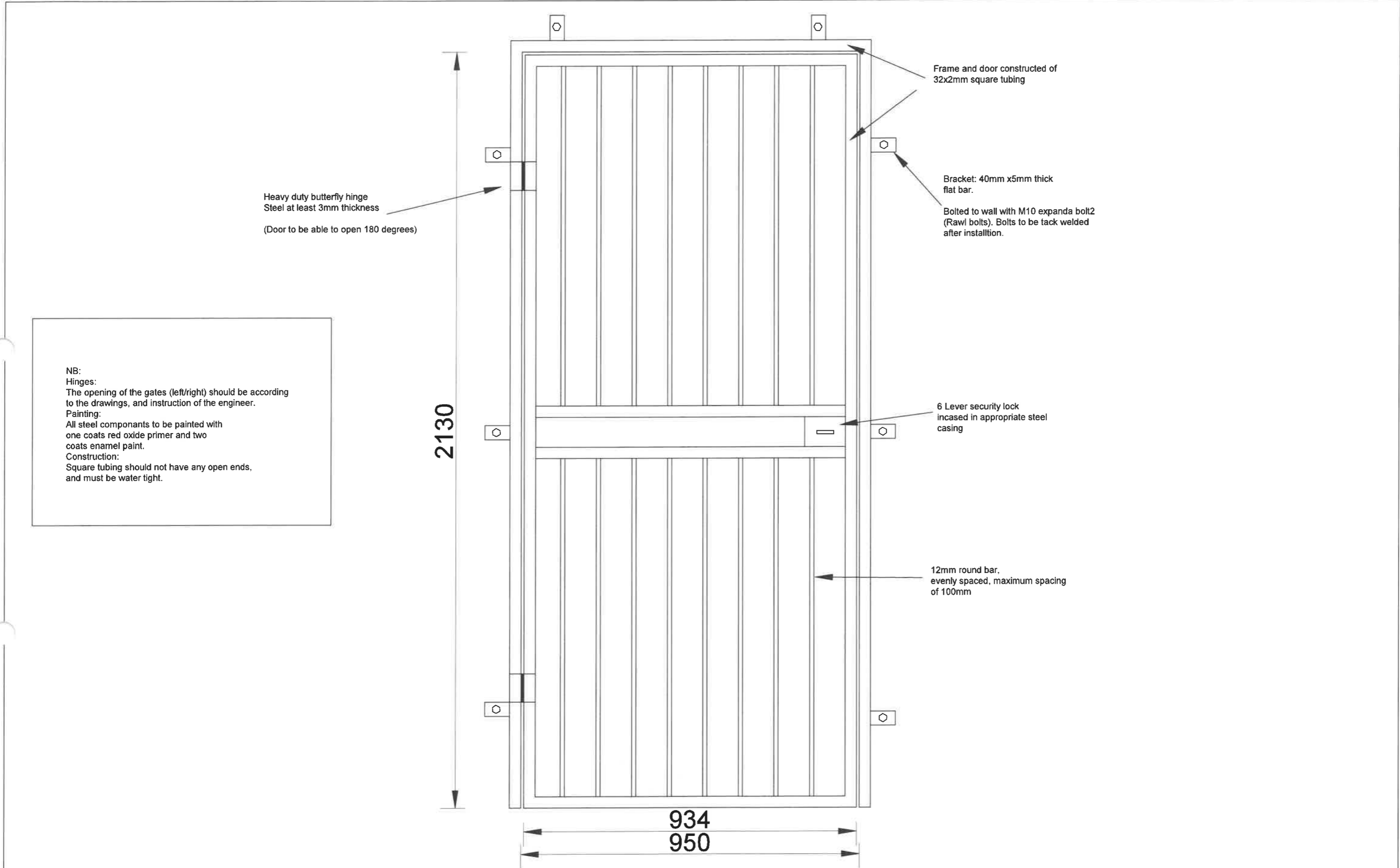
4 — 100 - 125mm TOP DIAMETER x 1800 mm TREATED TIMBER POST
BRACES IN BOX ANCHORS

NGL NATURAL GROUND LEVEL

NOTES: 1. 40 mm STAPLES REQUIRED FOR CORNER POSTS and STRAINING POSTS

2. THIS DRAWING TO BE READ IN CONJUNCTION WITH THE PROJECT PARTICULAR SPECIFICATIONS FOR FENCES

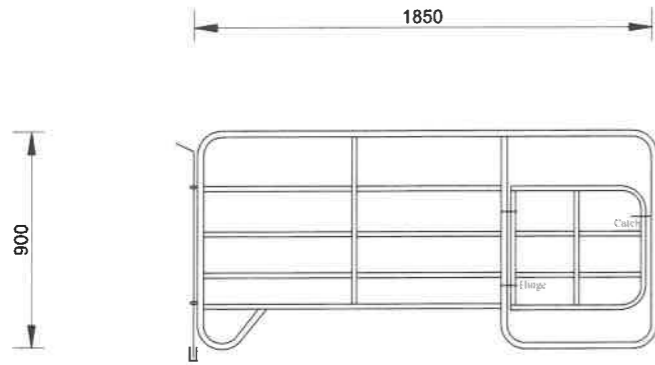
NO.	SPECIAL NOTES:	S KONDLO (CHIEF ENGINEER)	DEPARTMENT OF RURAL DEVELOPMENT AND AGRARIAN REFORM PROVINCE OF THE EASTERN CAPE	SCALE NTS	INDEX NO. SCMM-03/24/11
		OCTOBER 2024 (DATE APPROVED)	ENGINEERING SERVICES PRIVATE BAG X015 DOHNE ADI STUTTERHEIM 4930	FENCE	PLAN NO. SHEET 11 OF 12
				A3 ORIGINAL	



NB:
 Hinges:
 The opening of the gates (left/right) should be according to the drawings, and instruction of the engineer.
 Painting:
 All steel componants to be painted with one coats red oxide primer and two coats enamel paint.
 Construction:
 Square tubing should not have any open ends, and must be water tight.

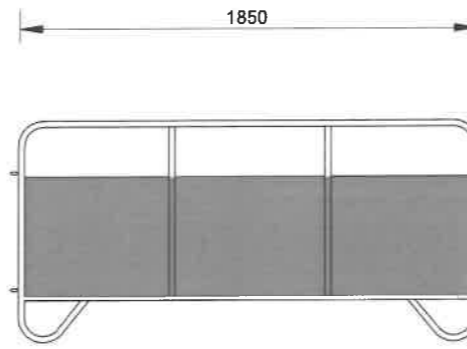
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						NTS	SCMM-03/24/12
		OCTOBER 2024 (DATE APPROVED)	ENGINEERING SERVICES PRIVATE BAG X015 DOHNE ADI STUTTERHEIM 4930	SECURITY GATE		A3 ORIGINAL	PLAN NO. SHEET 12 OF 12

25 PRE-FABRICATED SHEEP HANDLING FACILITIES



GATE SECTION 1 (GS1)

Premanufactured sheep gate
(Taltec TSK 3 or similar)

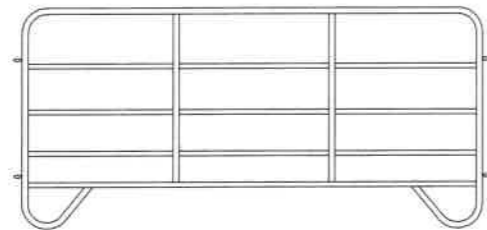


GATE SECTION 4 (GS4)

Premanufactured sheep Crush section
(Taltec TSK 2 or similar)



Premanufactured Arch Frame



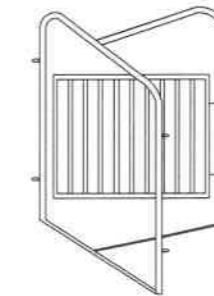
GATE SECTION 2 (GS2)

Premanufactured sheep gate
(Taltec TSK 1 or similar)

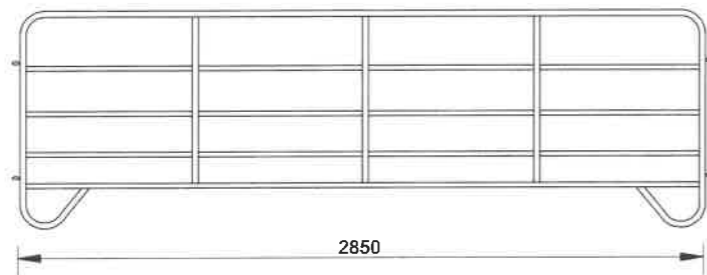


Premanufactured Guillotine gate
(Taltec TSK 4 or similar)

GATE SECTION 6 (GS6)



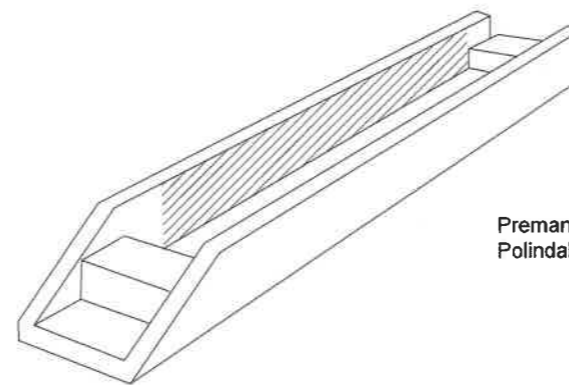
Premanufactured Sorting gate
(Taltec TSK 5 or similar)



GATE SECTION 3 (GS3)

Premanufactured sheep gate
(Taltec TSK 1 or similar)

GATE SECTION 5 (GS5)



Premanufactured Sheep foot bath
Polindale or similar approved.

GATE SECTION 7 (GS7)

PREFABRICATED FOOT BATH

NO.	SPECIAL NOTES:

S KONDLO
(CHIEF ENGINEER)

OCTOBER 2024
(DATE APPROVED)

**DEPARTMENT OF RURAL DEVELOPMENT AND AGRARIAN REFORM
PROVINCE OF THE EASTERN CAPE**

ENGINEERING SERVICES
PRIVATE BAG X015
DOHNE ADI
STUTTERHEIM
4930

**PRE-FABRICATED SHEEP
GATE SECTIONS**

SCALE
NTS

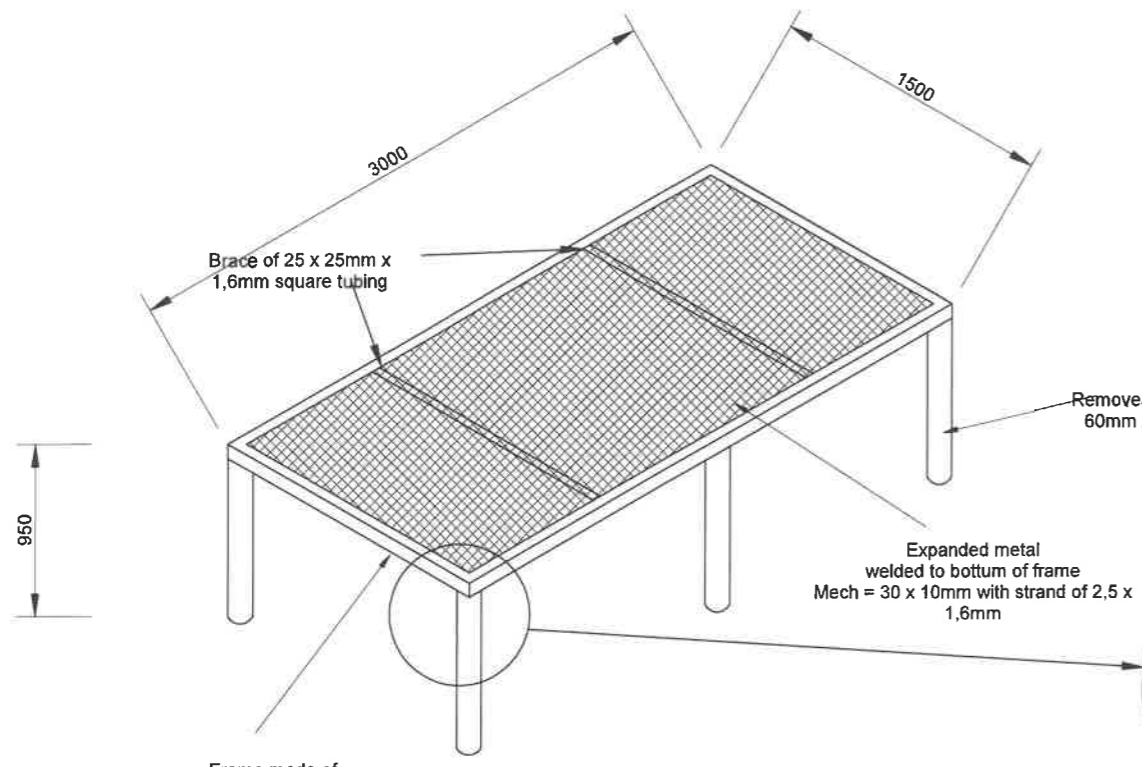
A3 ORIGINAL

INDEX NO.
SCMM-03/25/01

PLAN NO.
SHEET 1 OF 1

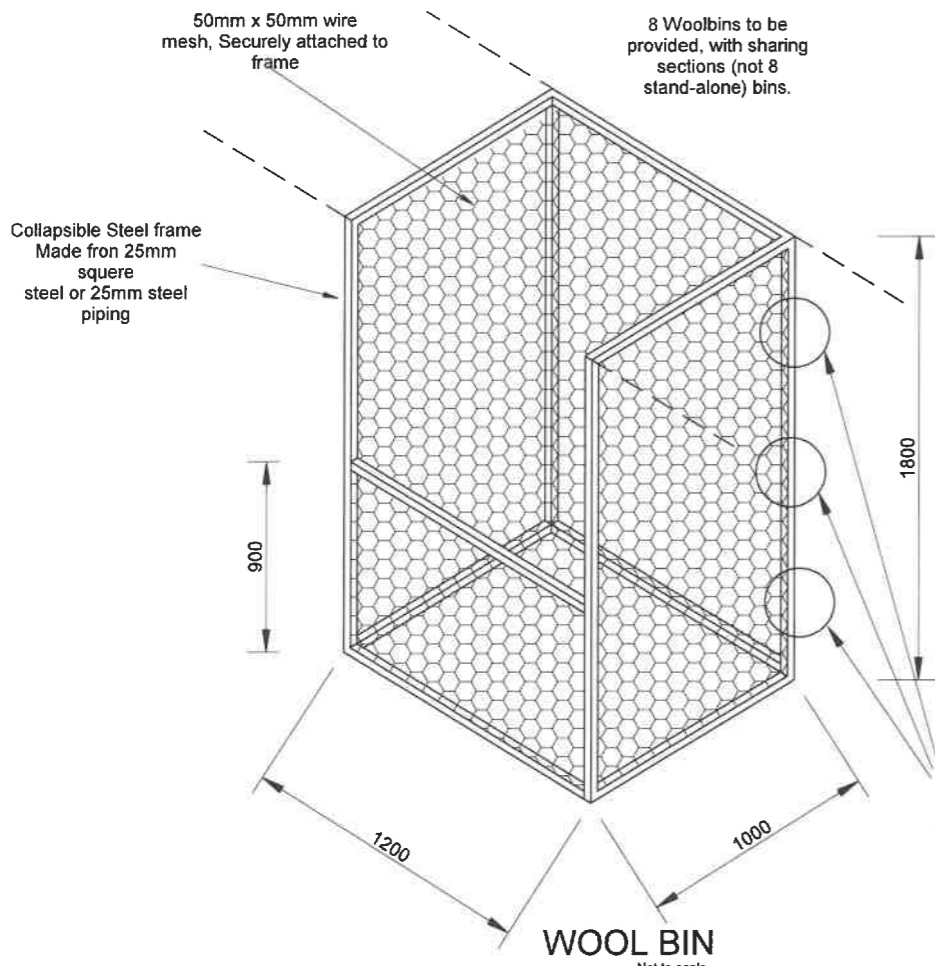
26 SHEEP SHEARING EQUIPMENT

DETAILS OF SHEARING EQUIPMENT



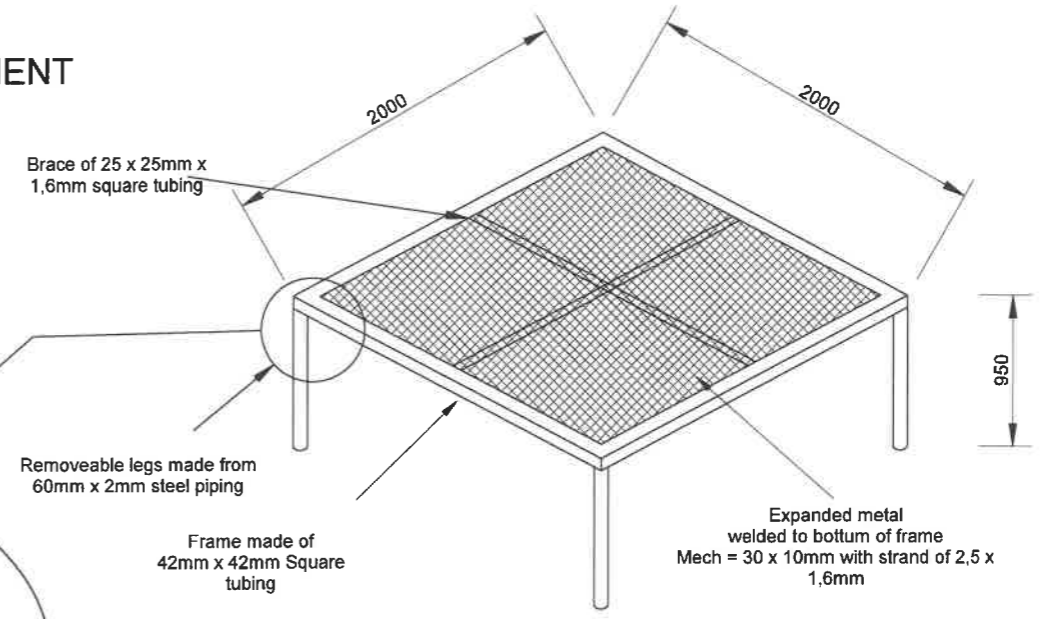
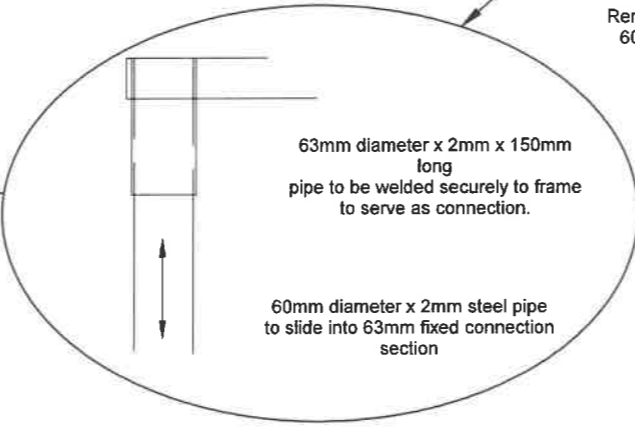
WOOL SORTING TABLE

Not to scale



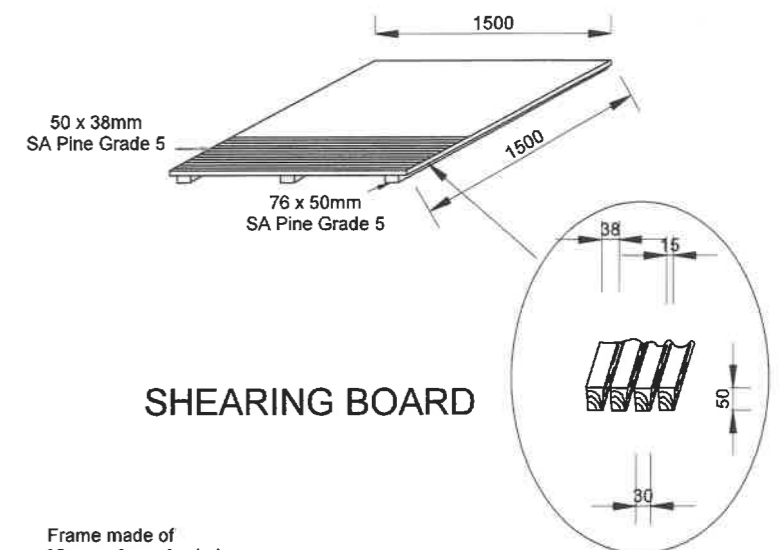
WOOL BIN

Not to scale

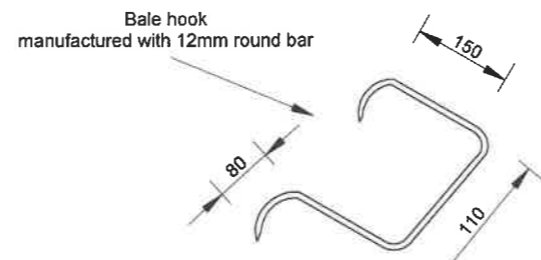


PIECE PICKING TABLE

Not to scale

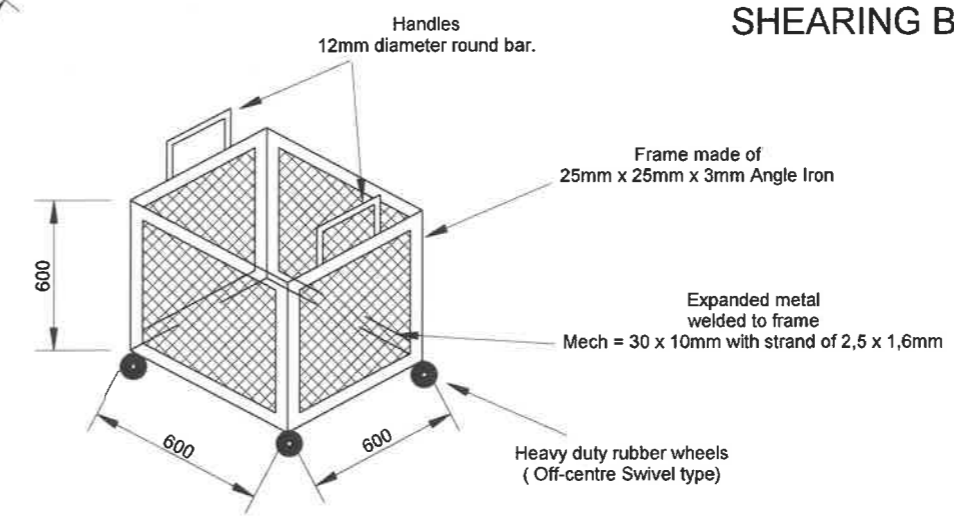
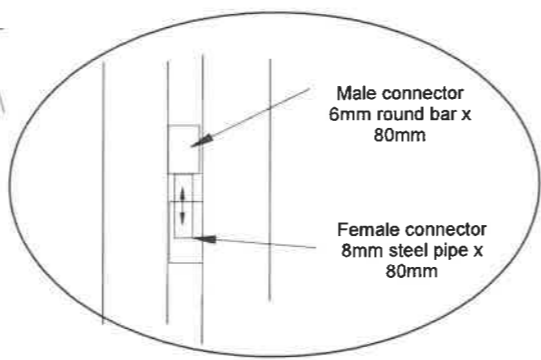


SHEARING BOARD



BALE HOOKS

Not to scale

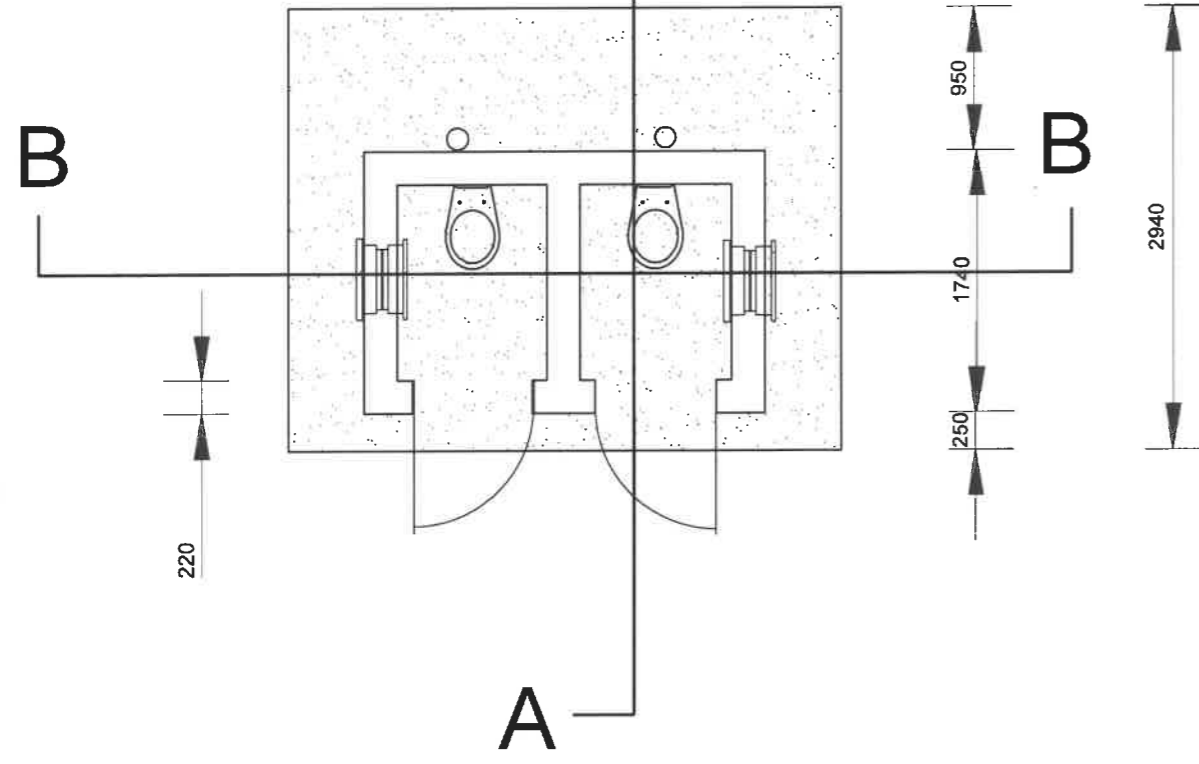
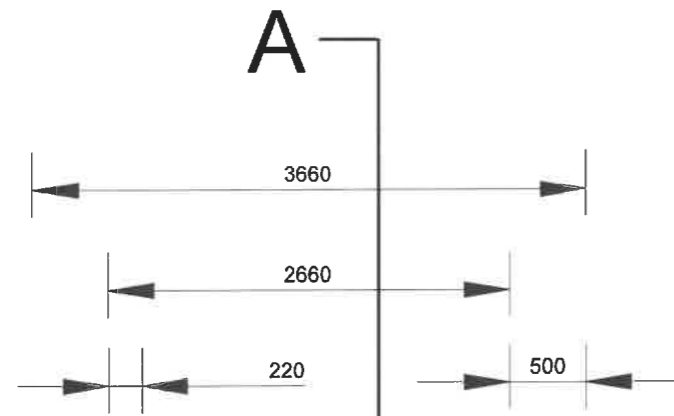


WOOL BASKETS

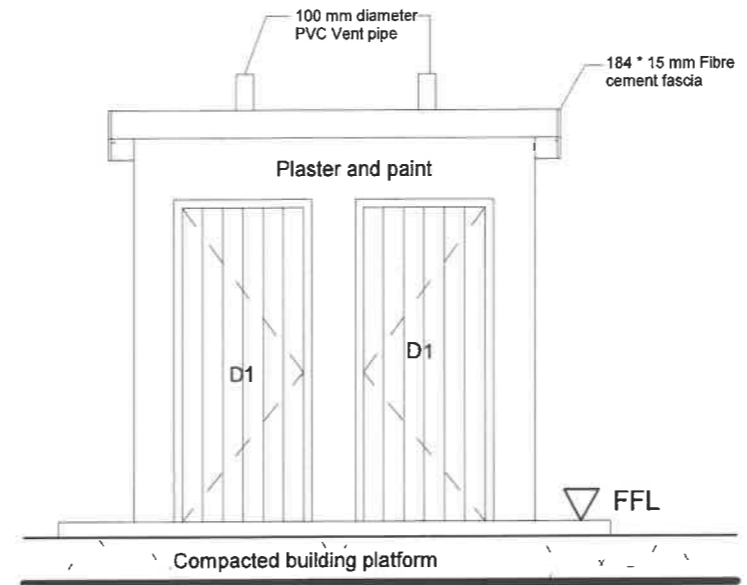
Not to scale

NO.	SPECIAL NOTES:	S KONDLO (CHIEF ENGINEER)	DEPARTMENT OF RURAL DEVELOPMENT AND AGRARIAN REFORM PROVINCE OF THE EASTERN CAPE	SCALE	INDEX NO.
				NTS	SCMM-03/26/01
		OCTOBER 2024 (DATE APPROVED)	ENGINEERING SERVICES PRIVATE BAG X015 DOHNE ADI STUTTERHEIM 4930	SHEARING EQUIPMENT	PLAN NO.
				SHEARING EQUIPMENT	A3 ORIGINAL
					SHEET 1 OF 1

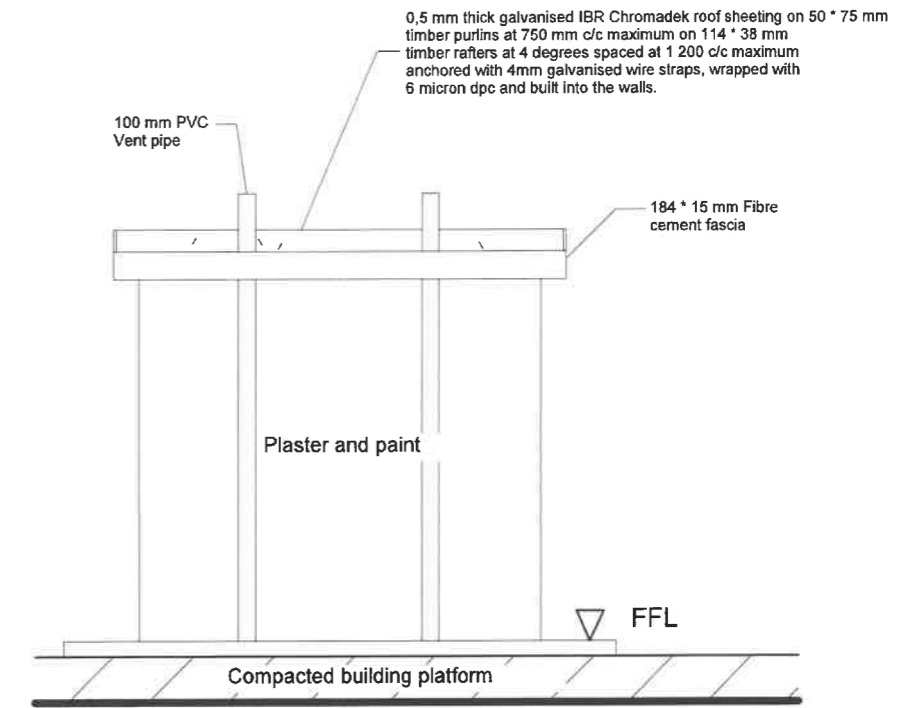
27 STANDARD PIT TOILET



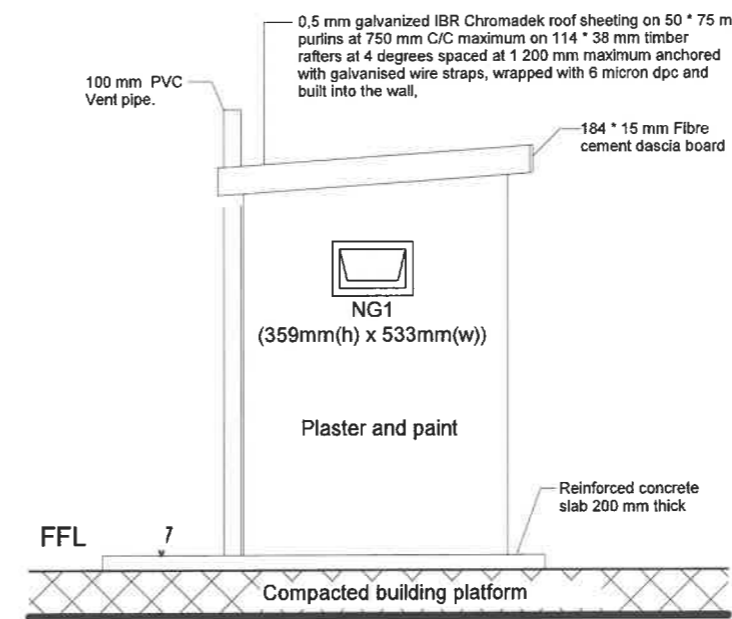
FLOOR PLAN
SCALE 1: 50 on (A3)



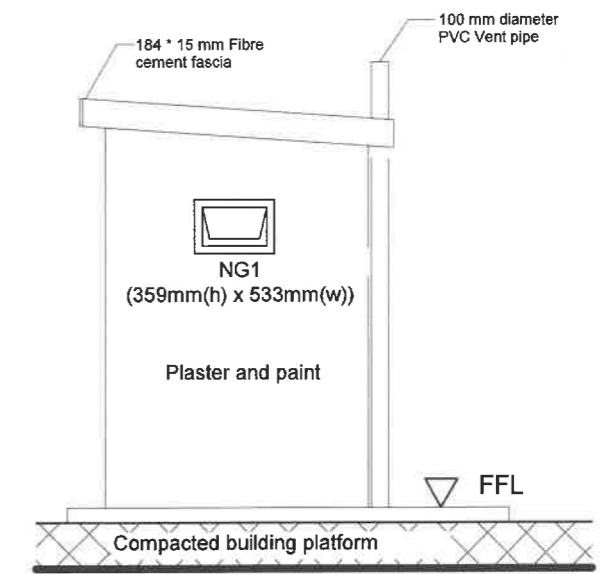
NORTH ELEVATION
SCALE 1: 50 on (A3)



SOUTH ELEVATION
SCALE 1: 50 on (A3)



EAST ELEVATION
SCALE 1: 50 on (A3)



WEST ELEVATION
SCALE 1: 50 on (A3)

NO.	SPECIAL NOTES:

S. KONDLO
(CHIEF ENGINEER)

OCTOBER 2024
(DATE APPROVED)

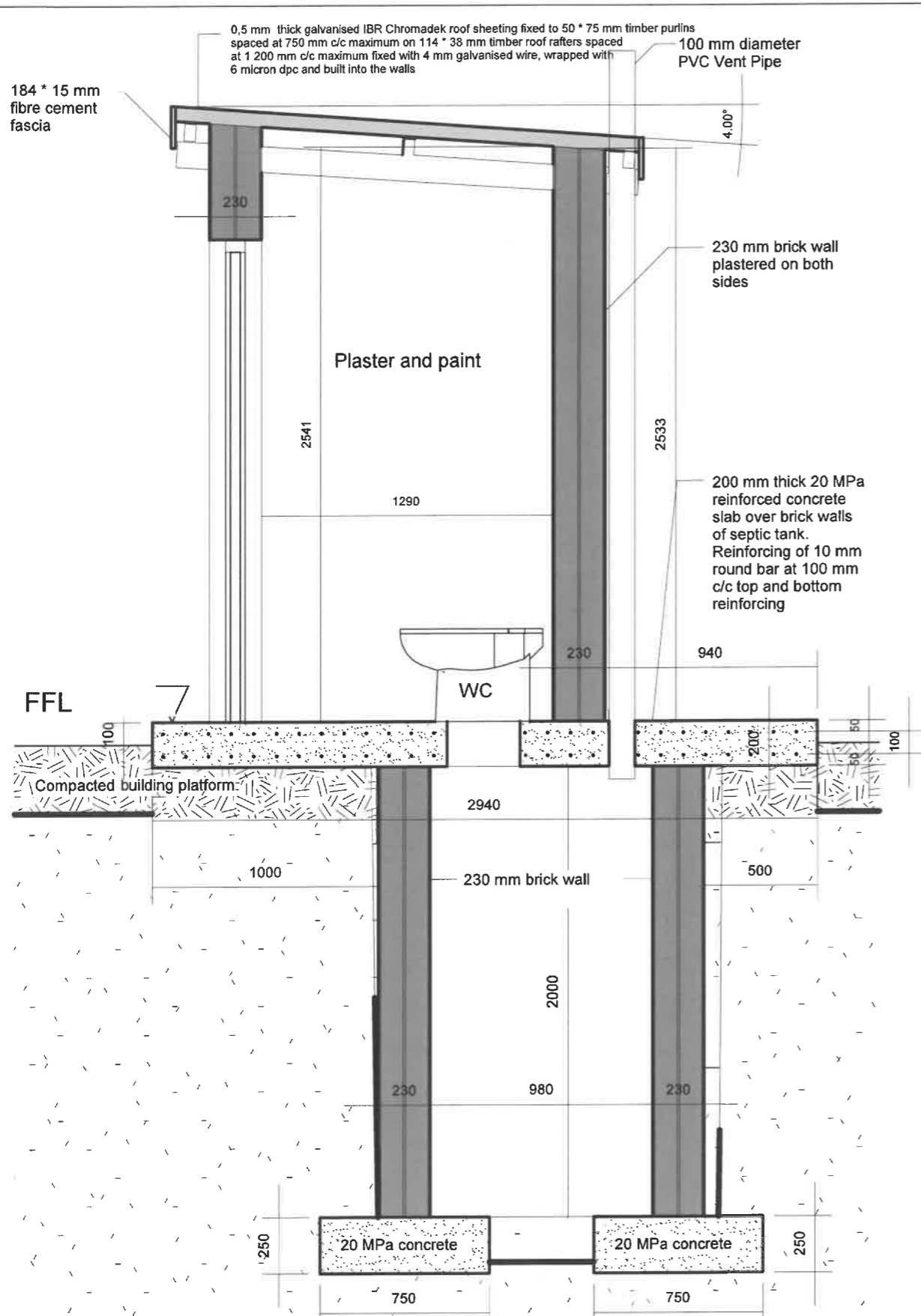
**DEPARTMENT OF RURAL DEVELOPMENT AND AGRARIAN REFORM
PROVINCE OF THE EASTERN CAPE**

ENGINEERING SERVICES
PRIVATE BAG X015
DOHNE ADI
STUTTERHEIM
4930

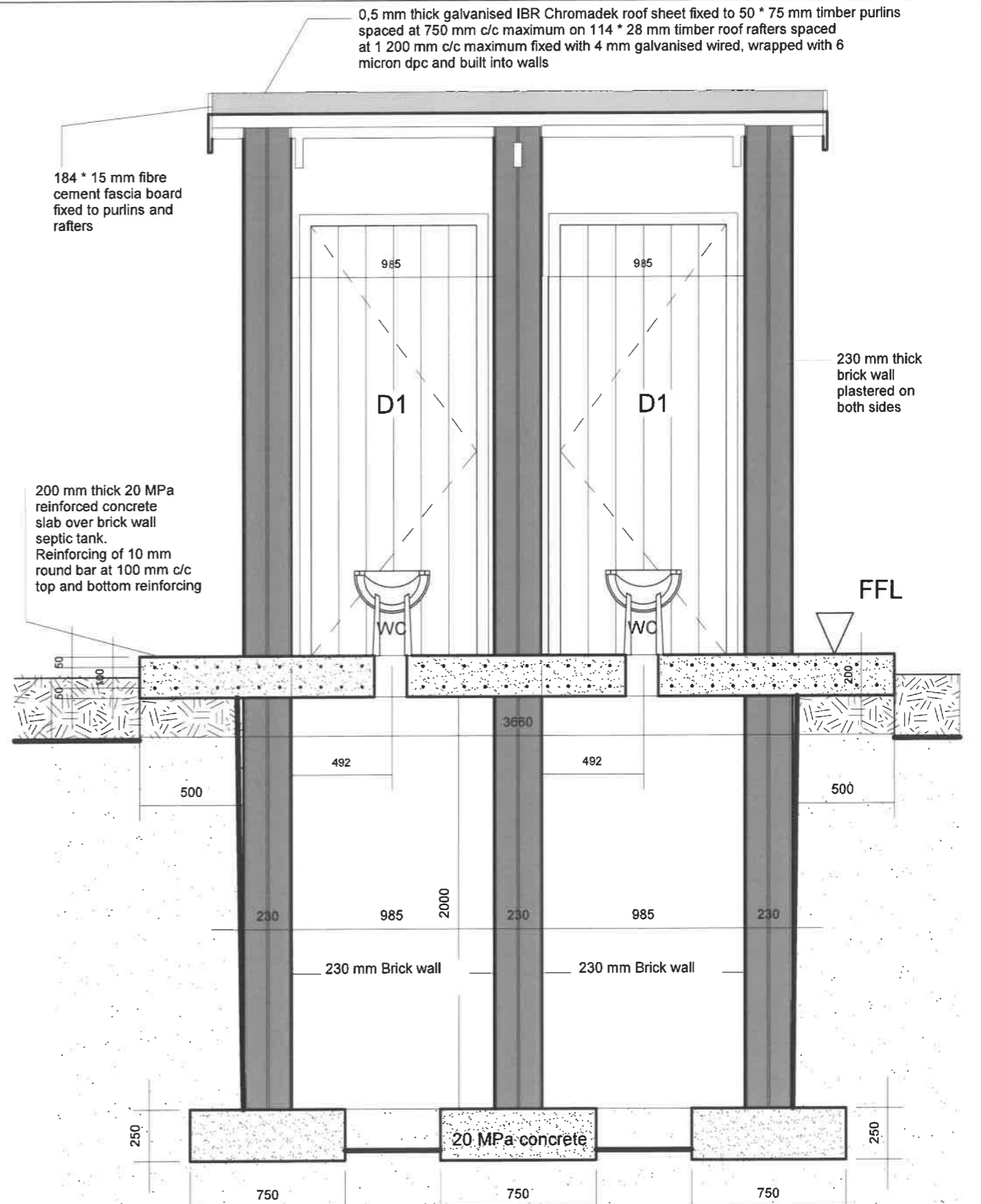
PIT TOILET

PLAN AND ELEVATIONS

SCALE	INDEX NO.
NTS	SCMM-03/27/01
A3 ORIGINAL	PLAN NO. SHEET 1 OF 2



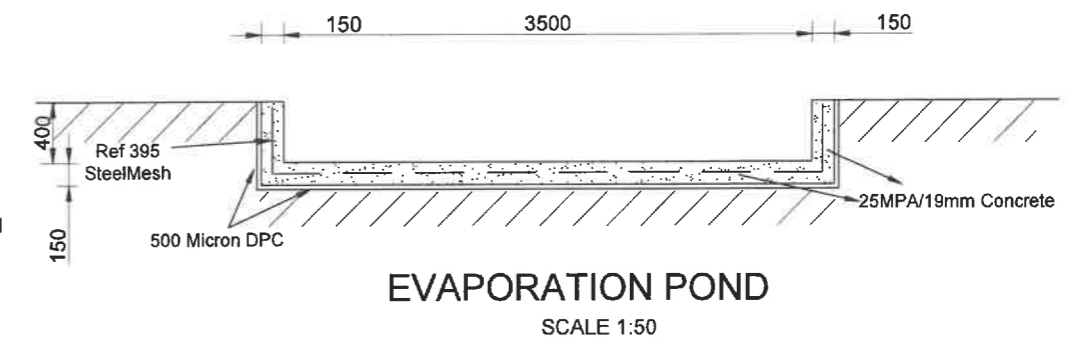
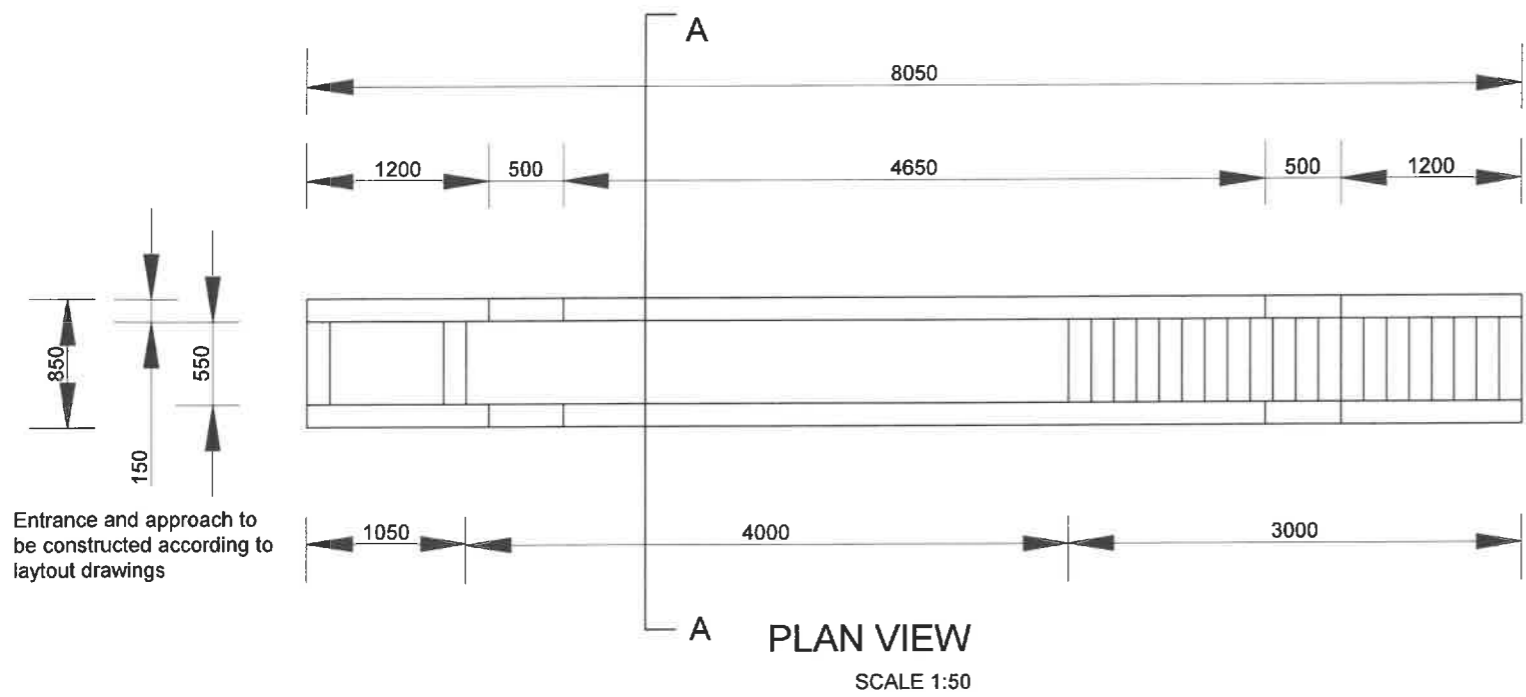
SECTION A-A
SCALE 1: 25 on (A3)



SECTION B-B
SCALE 1: 25 on (A3)

NO.	SPECIAL NOTES:	S. KONDLO (CHIEF ENGINEER)	DEPARTMENT OF RURAL DEVELOPMENT AND AGRARIAN REFORM PROVINCE OF THE EASTERN CAPE	PIT TOILET	SCALE	INDEX NO.
					NTS	SCMM-03/27/02
		OCTOBER 2024 (DATE APPROVED)	ENGINEERING SERVICES PRIVATE BAG X015 DOHNE ADI STUTTERHEIM 4930	SECTIONS	A3 ORIGINAL	PLAN NO. SHEET 2 OF 2

28 SHEEP PLUNGE DIP TANK

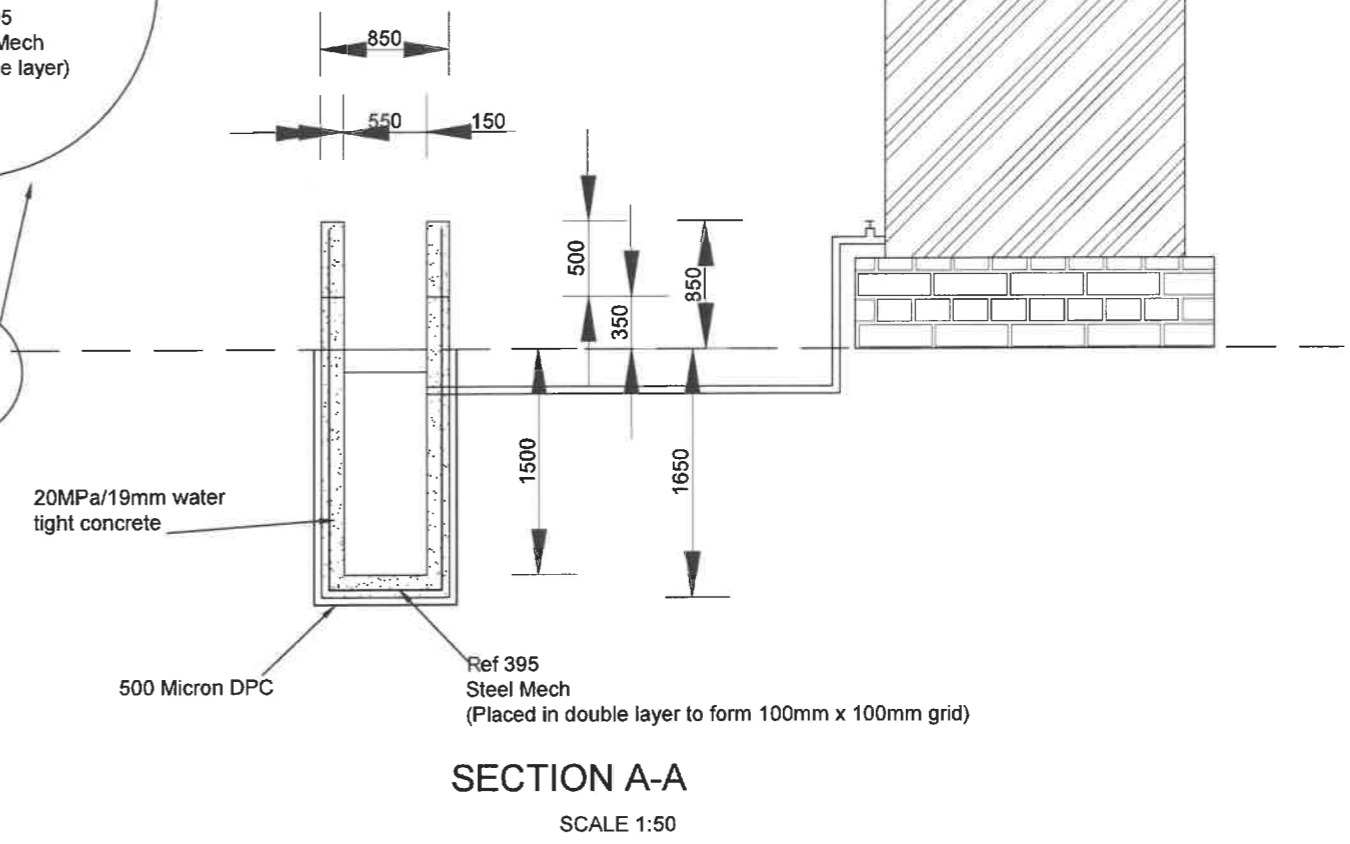
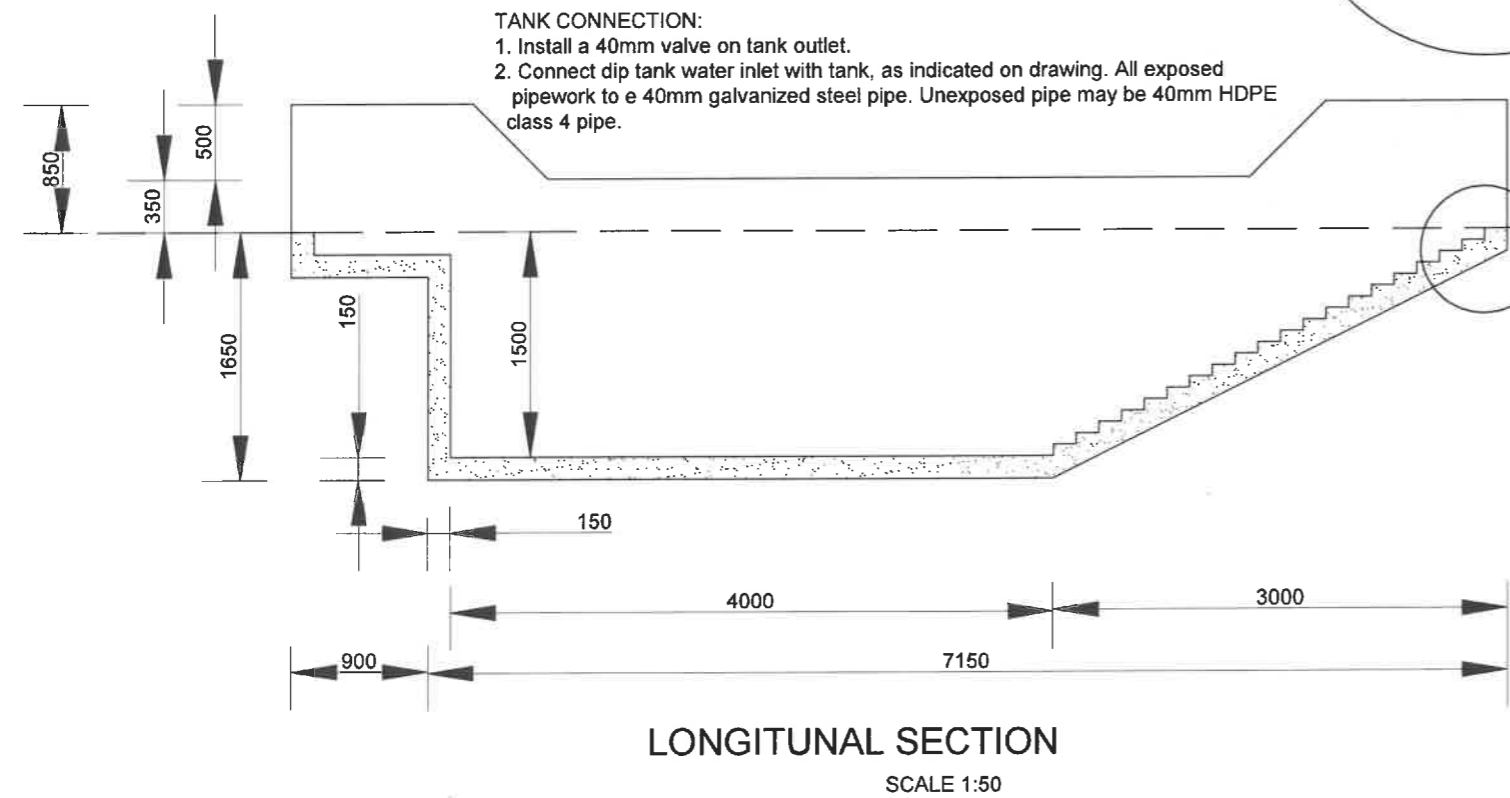
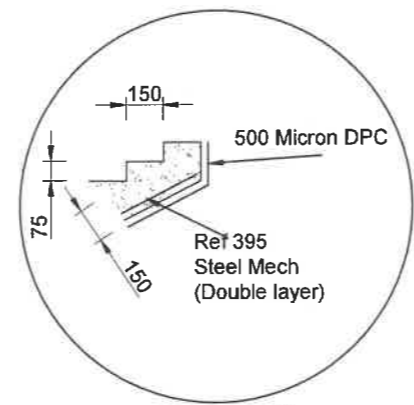


DIP TANK:

1. Dip tank excavation to be smooth and stone free.
2. Excavation to be lined seamlessly with 500 micron DPC.
3. A double layer of Ref 395 steel reinforcement sheets to be placed in centre of dip tank walls and floor. Sheets to be bind together in such a manner that the spacing between members are halved.
4. Make use use of 25MPa water tight ready mix concrete with a maximum agrigate size of 19mm, well vibrated and compacted.
5. Install a 40mm galvanized steel pipe in the wall of the diptank during cast, for connection to water supply.
6. No concrete may be placed before the site engineered approved the formwork construction.

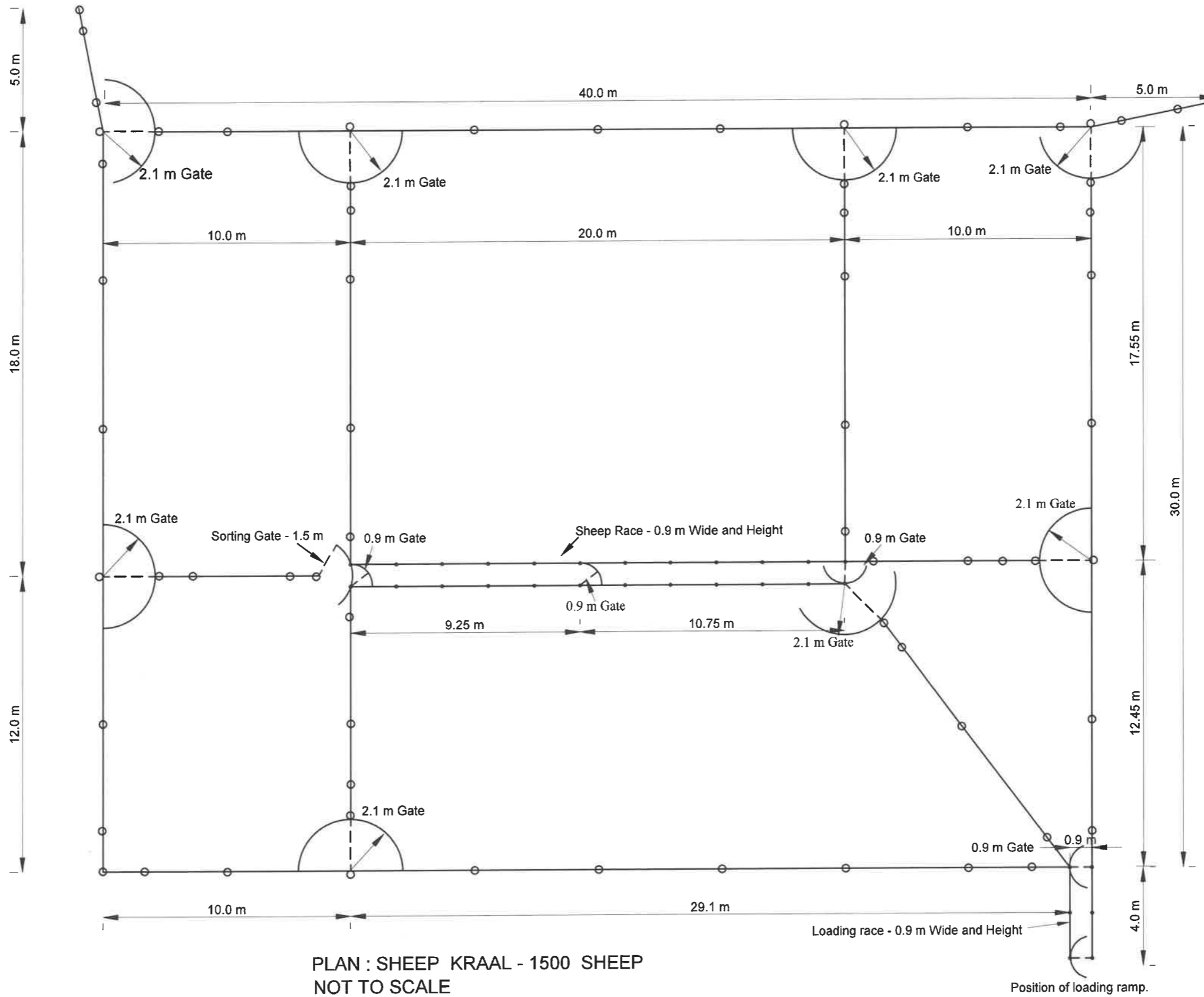
TANK CONNECTION:

1. Install a 40mm valve on tank outlet.
2. Connect dip tank water inlet with tank, as indicated on drawing. All exposed pipework to e 40mm galvanized steel pipe. Unexposed pipe may be 40mm HDPE class 4 pipe.



NO.	SPECIAL NOTES:	S KONDLO (CHIEF ENGINEER)	DEPARTMENT OF RURAL DEVELOPMENT AND AGRARIAN REFORM PROVINCE OF THE EASTERN CAPE	SHEEP PLUNGE DIP TANK		SCALE	INDEX NO.
				PLAN AND SECTIONS		NTS	SCMM-03/28/01
		OCTOBER 2024 (DATE APPROVED)	ENGINEERING SERVICES PRIVATE BAG X015 DOHNE ADI STUTTERHEIM 4930			A3 ORIGINAL	PLAN NO. SHEET 1 OF 1

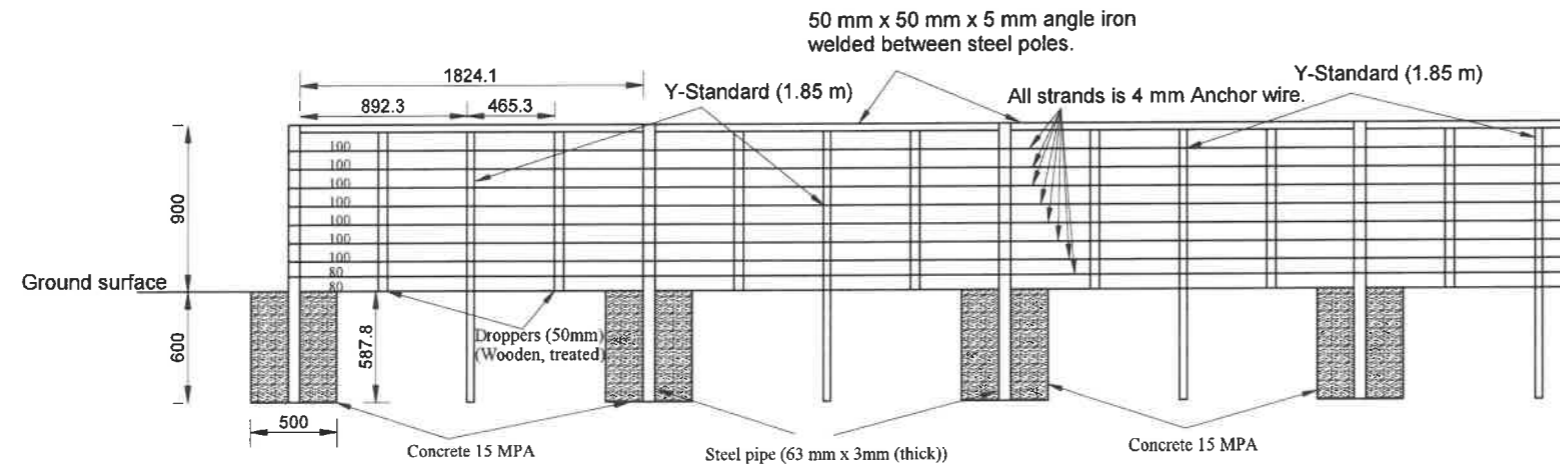
29 SMALL STOCK HANDLING FACILITIES



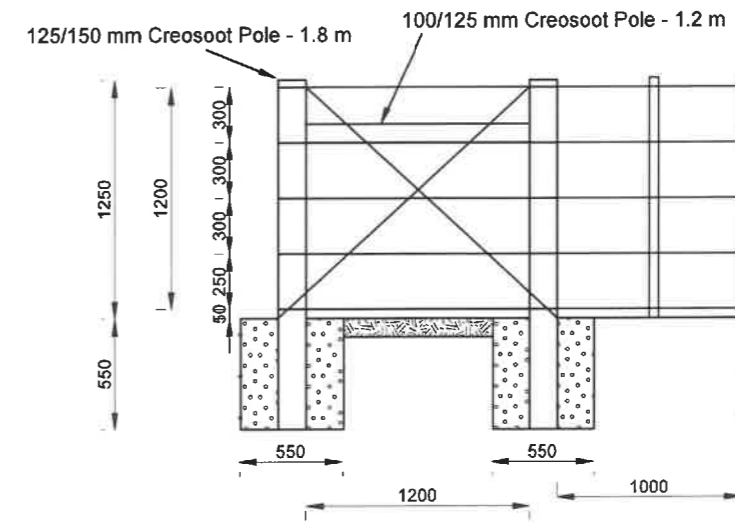
PLAN : SHEEP KRAAL - 1500 SHEEP
NOT TO SCALE

NO.	SPECIAL NOTES:	S KONDLO (CHIEF ENGINEER)	DEPARTMENT OF RURAL DEVELOPMENT AND AGRARIAN REFORM PROVINCE OF THE EASTERN CAPE	SMALL STOCK HANDLING FACILITY		SCALE	INDEX NO.
				LAYOUT PLAN		NTS	SCMM-03/29/01
		OCTOBER 2024 (DATE APPROVED)	ENGINEERING SERVICES PRIVATE BAG X015 DOHNE ADI STUTTERHEIM 4930			A3 ORIGINAL	PLAN NO. SHEET 1 OF 2

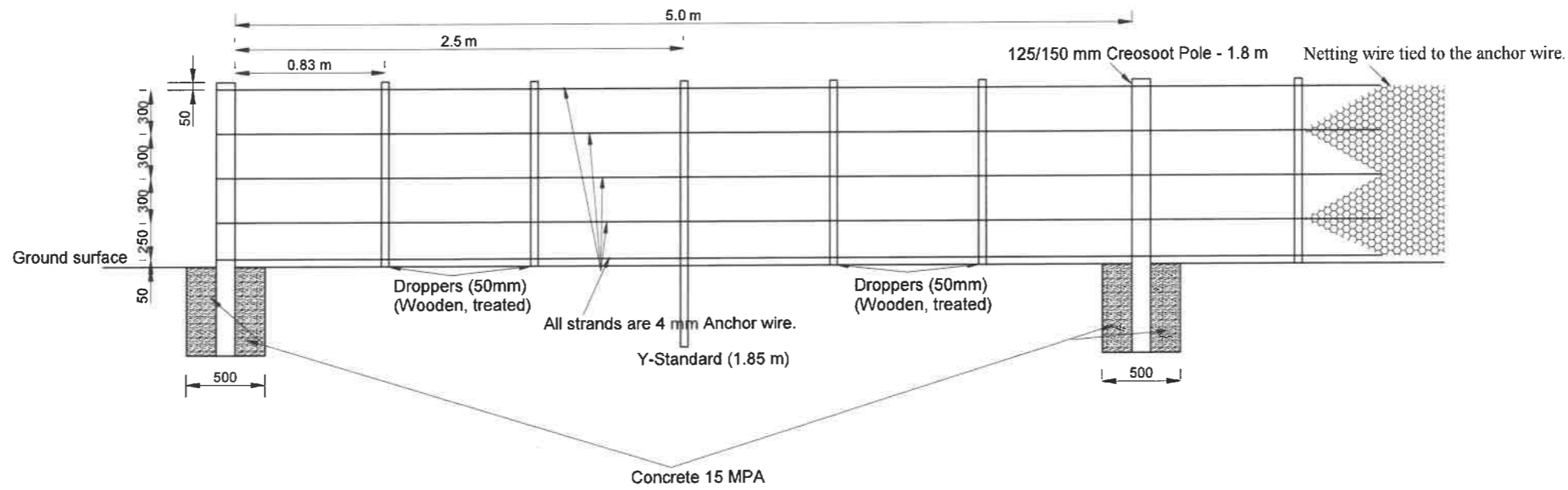
SHEEP KRAAL SPECS



RACE & LOADING RACE
NOT TO SCALE



BOX ANCHOR
NOT TO SCALE



KRAAL FENCE
NOT TO SCALE

NO.	SPECIAL NOTES:

S KONDLO
(CHIEF ENGINEER)

OCTOBER 2024
(DATE APPROVED)

**DEPARTMENT OF RURAL DEVELOPMENT AND AGRARIAN REFORM
PROVINCE OF THE EASTERN CAPE**

ENGINEERING SERVICES
PRIVATE BAG X015
DOHNE ADI
STUTTERHEIM
4930

**SMALL STOCK HANDLING
FACILITY**

DETAIL PLAN

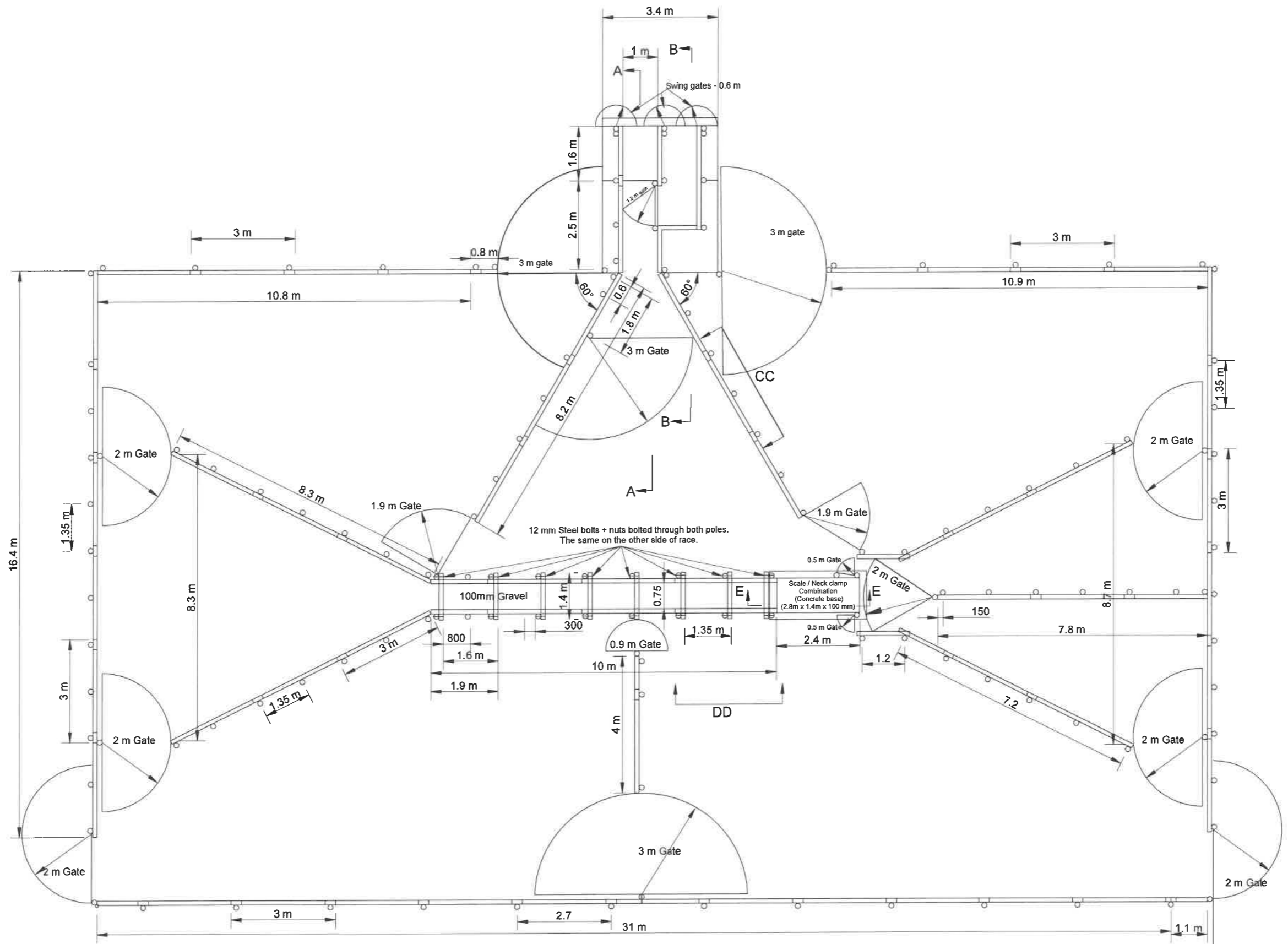
SCALE
NTS

A3 ORIGINAL

INDEX NO.
SCMM-03/29/02

PLAN NO.
SHEET 2 OF 2

30 LARGE STOCK HANDLING FACILITIES



LAYOUT PLAN
NTS

NO.	SPECIAL NOTES:
1.	12mm Threaded rods to be used on poles.
2.	16mm Threaded rods to be used on gates.
3.	Vertical posts to be of 125/150 creosote poles.
4.	Horizontal poles to be of 100/125 creosote poles.

S KONDLO
(CHIEF ENGINEER)

OCTOBER 2024
(DATE APPROVED)

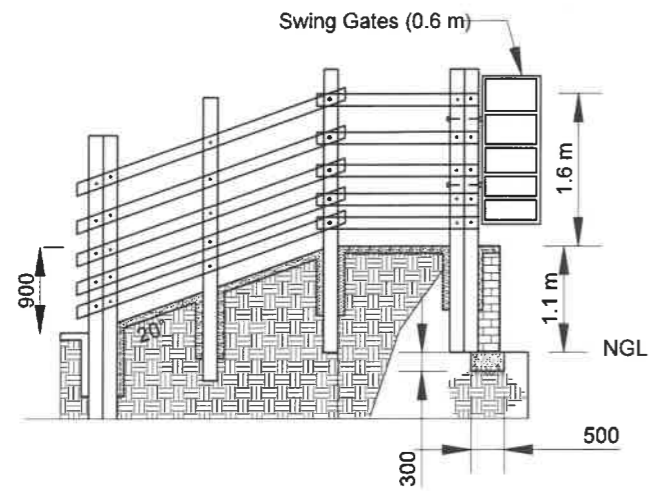
DEPARTMENT OF RURAL DEVELOPMENT AND AGRARIAN REFORM
PROVINCE OF THE EASTERN CAPE

ENGINEERING SERVICES
PRIVATE BAG X015
DOHNE ADI
STUTTERHEIM
4930

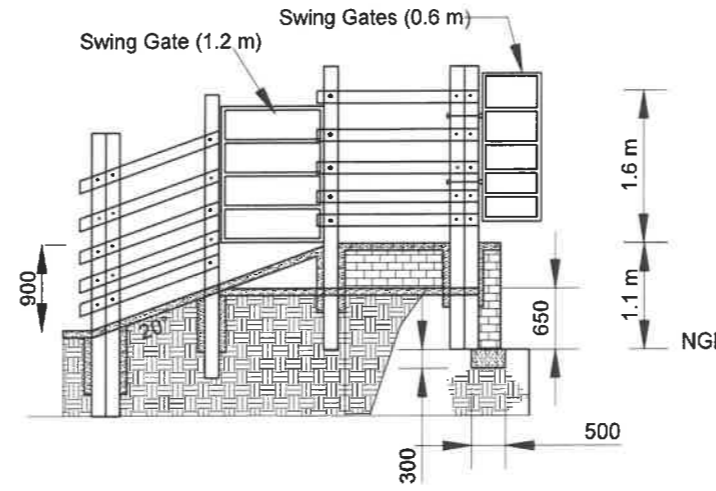
LARGE STOCK HANDLING FACILITY

LAYOUT PLAN

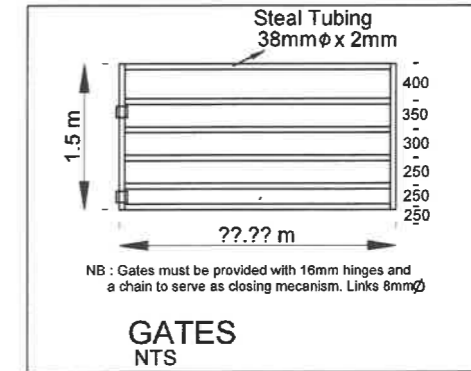
SCALE	INDEX NO.
NTS	SCMM-03/30/01
A3 ORIGINAL	PLAN NO. SHEET 1 OF 2



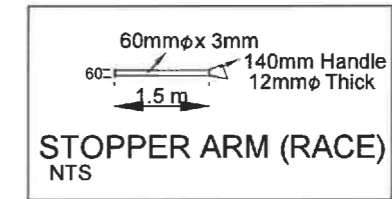
Section AA
NTS



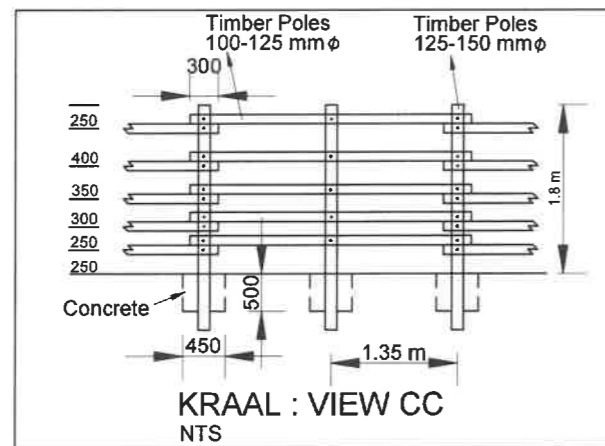
Section BB
NTS



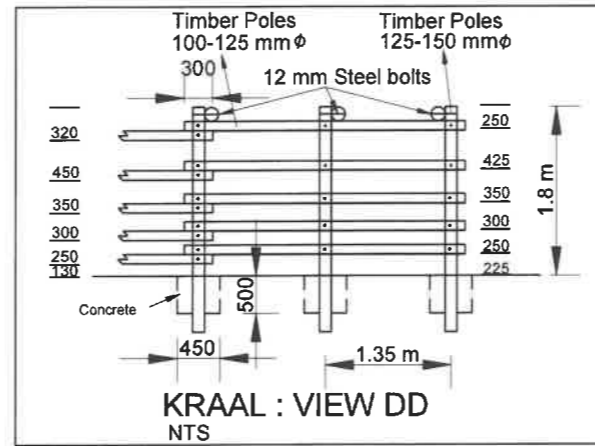
GATES
NTS



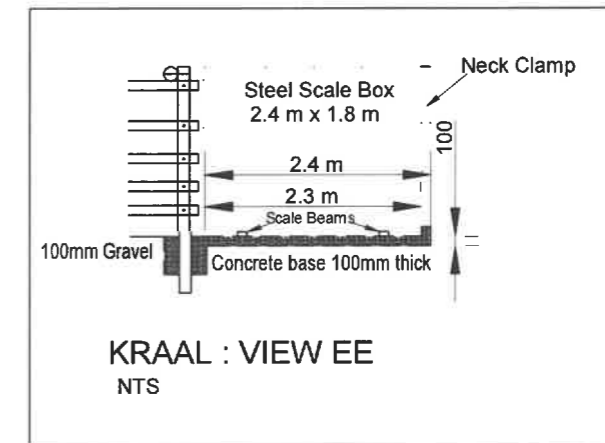
STOPPER ARM (RACE)
NTS



KRAAL : VIEW CC
NTS



KRAAL : VIEW DD
NTS



KRAAL : VIEW EE
NTS

NO.	SPECIAL NOTES:
1.	12mm Threaded rods to be used on poles.
2.	16mm Threaded rods to be used on gates.
3.	Vertical posts to be of 125/150 creosote poles.
4.	Horizontal poles to be of 100/125 creosote poles.

S KONDLO
(CHIEF ENGINEER)

OCTOBER 2024
(DATE APPROVED)

DEPARTMENT OF RURAL DEVELOPMENT AND AGRARIAN REFORM
PROVINCE OF THE EASTERN CAPE

ENGINEERING SERVICES
PRIVATE BAG X015
DOHNE ADI
STUTTERHEIM
4930

LARGE STOCK HANDLING FACILITY

SECTIONS & DETAIL DRAWINGS

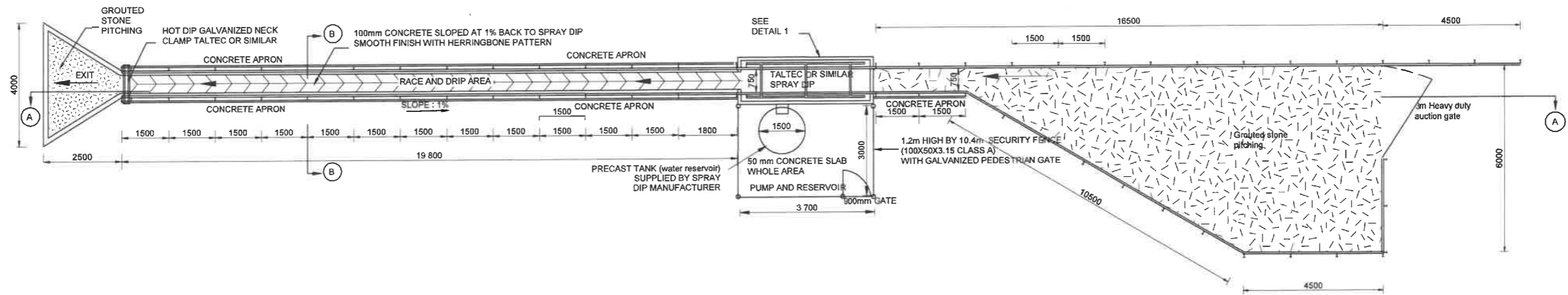
SCALE
NTS

A3 ORIGINAL

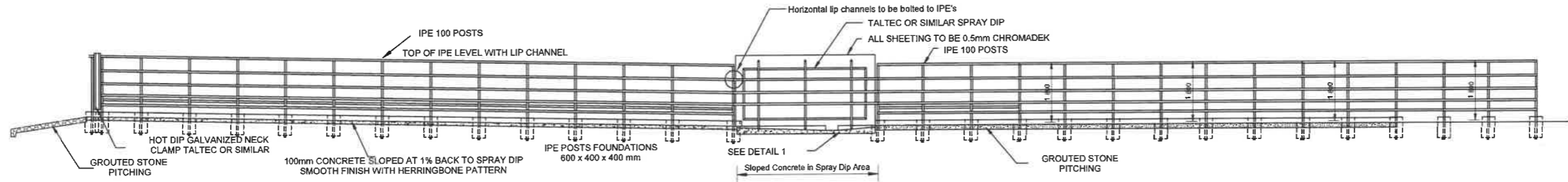
INDEX NO.
SCMM-03/30/02

PLAN NO.
SHEET 2 OF 2

31 CATTLE SPAY RACE (STEEL)



SPRAY DIP LAYOUT
SCALE 1:150

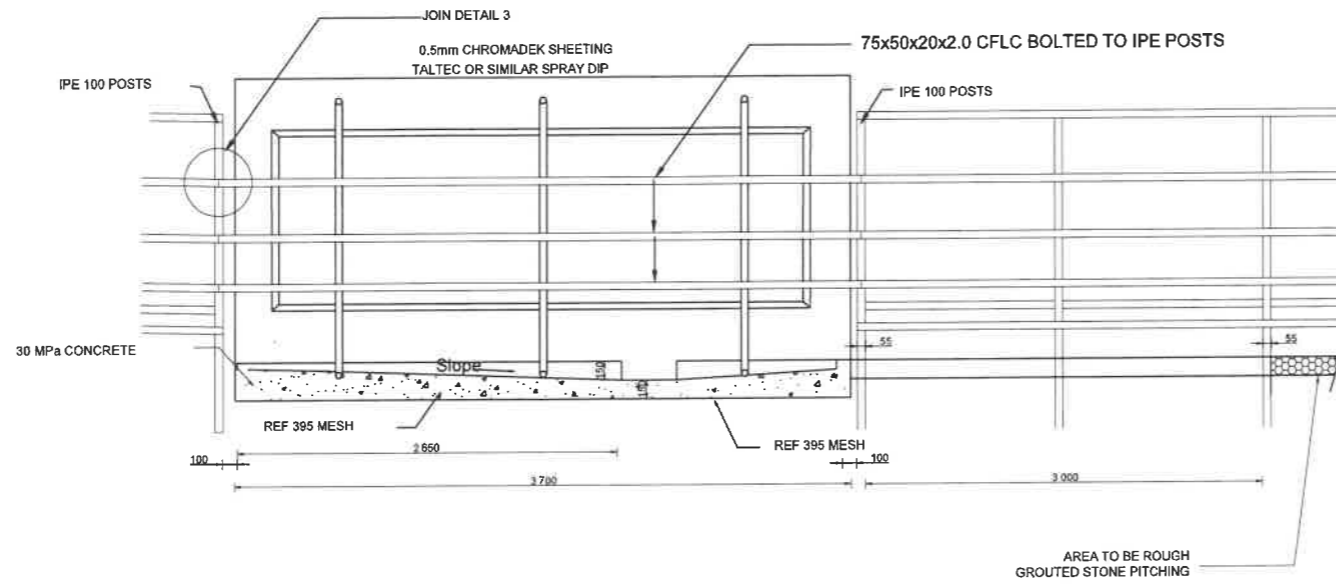


SECTION A-A
SCALE 1:150

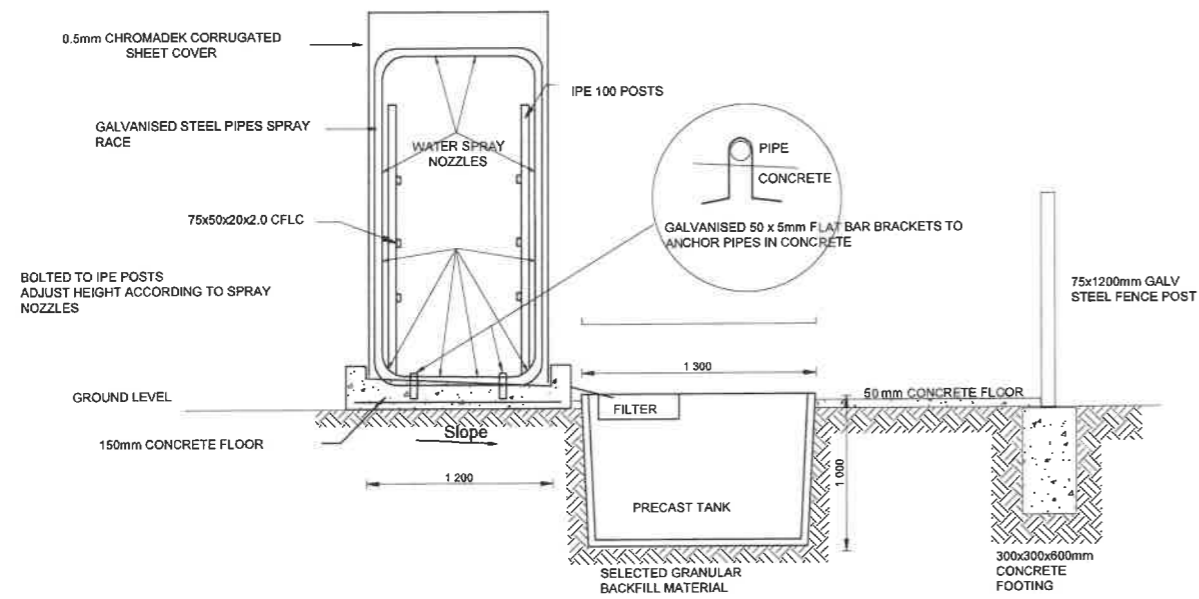
THIS OFFICE SHOULD BE NOTIFIED FOR INSPECTIONS AT THE FOLLOWING STAGES:

1. After the excavations has been completed and before concrete is placed.
2. After the formwork has been placed.
3. Before welding start on site

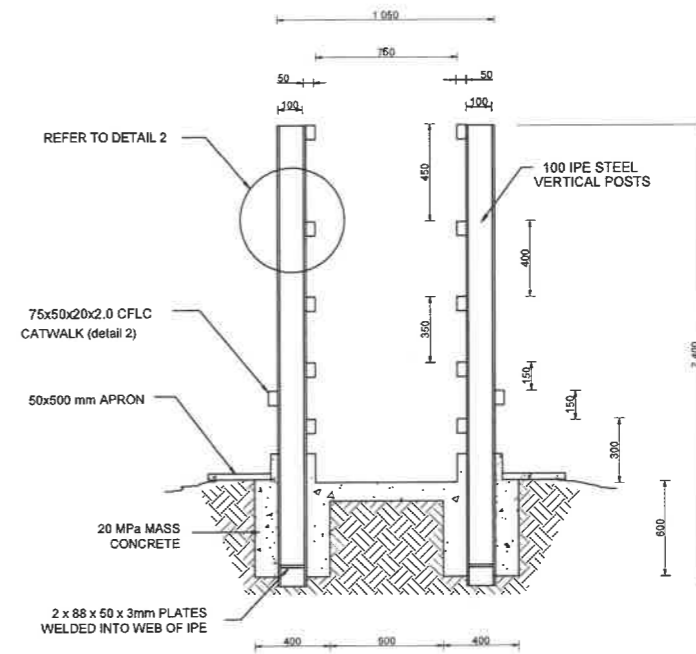
NO.	SPECIAL NOTES:	S KONDLO (CHIEF ENGINEER)	DEPARTMENT OF RURAL DEVELOPMENT AND AGRARIAN REFORM PROVINCE OF THE EASTERN CAPE	CATTLE SPRAY DIP RACE (STEEL)	SCALE NTS	INDEX NO. SCMM-03/31/01
				SITE LAYOUT PLAN	A3 ORIGINAL	PLAN NO. SHEET 1 OF 6
		OCTOBER 2024 (DATE APPROVED)	ENGINEERING SERVICES PRIVATE BAG X015 DOHNE ADI STUTTERHEIM 4930			



SECTION C-C

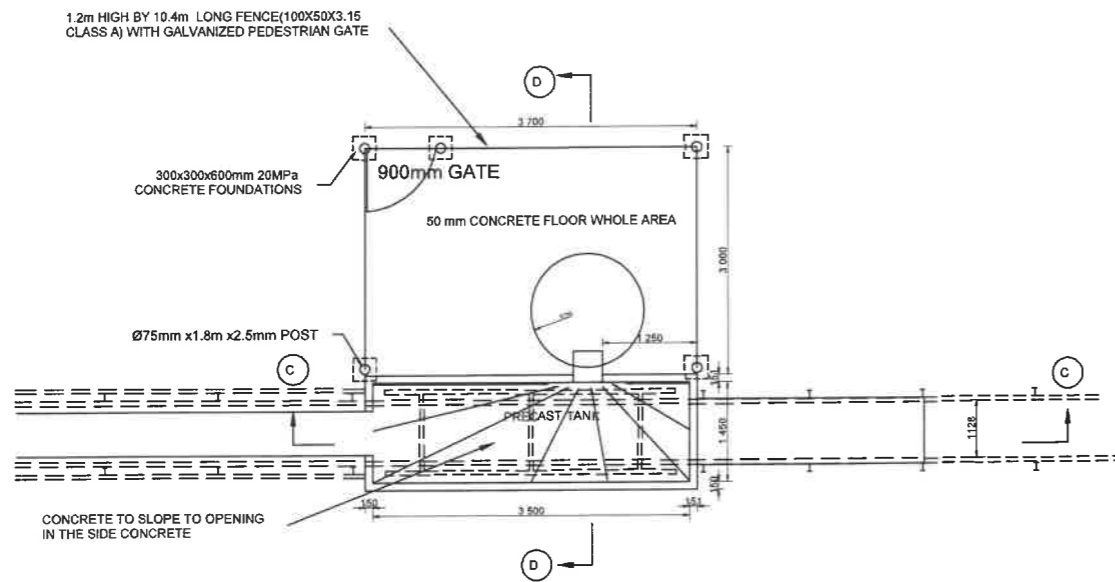


SECTION D-D

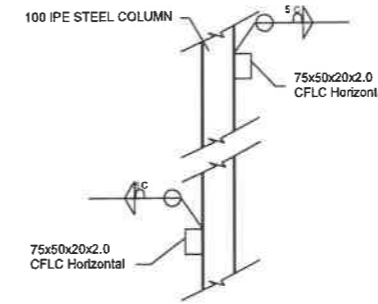


SECTION B-B

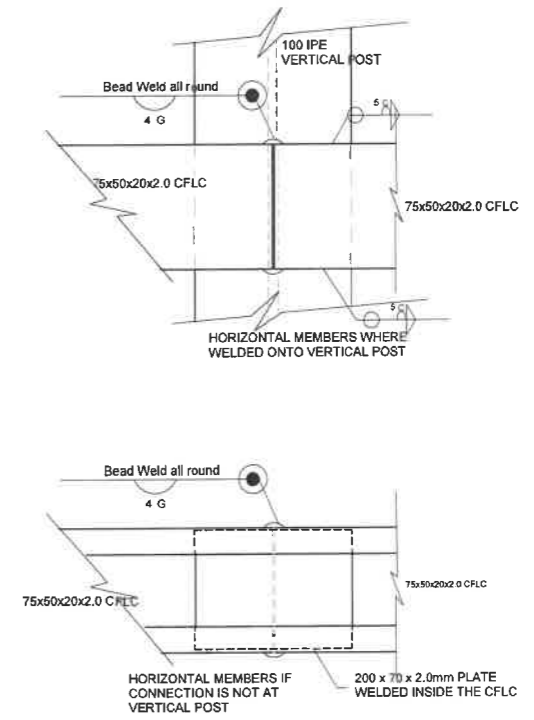
NO.	SPECIAL NOTES:	S KONDLO (CHIEF ENGINEER)	DEPARTMENT OF RURAL DEVELOPMENT AND AGRARIAN REFORM PROVINCE OF THE EASTERN CAPE	CATTLE SPRAY DIP RACE (STEEL)	SCALE NTS	INDEX NO. SCMM-03/31/02
				DETAILS 1	A3 ORIGINAL	PLAN NO. SHEET 2 OF 6
		OCTOBER 2024 (DATE APPROVED)	ENGINEERING SERVICES PRIVATE BAG X015 DOHNE ADI STUTTERHEIM 4930			



DETAIL 1

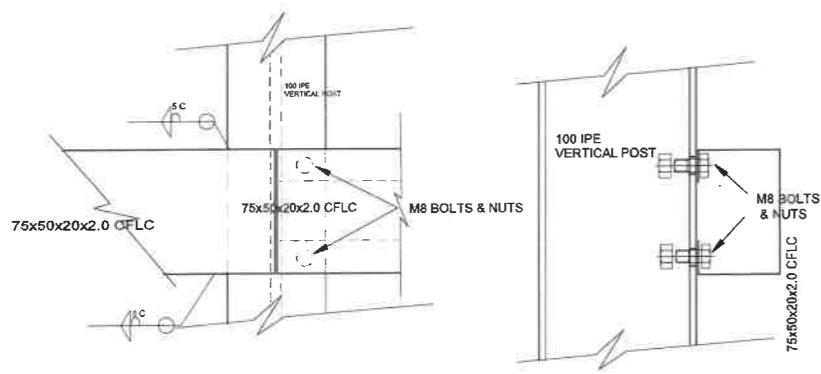


DETAIL 2

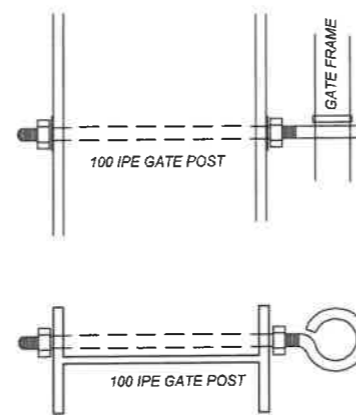


JOIN DETAIL

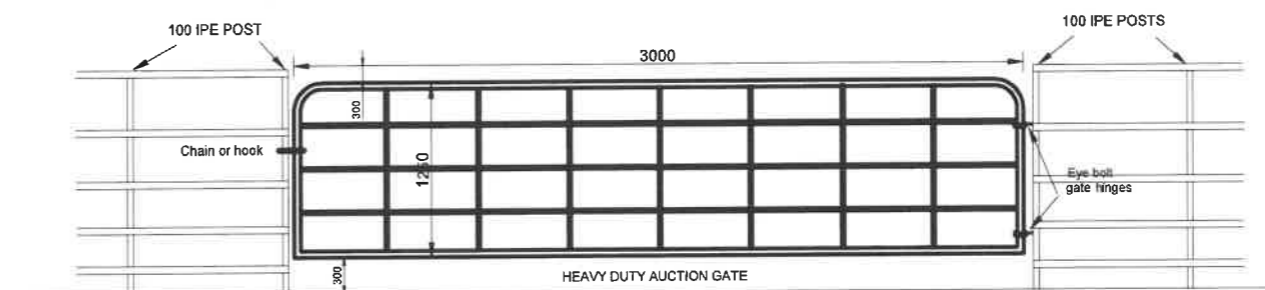
WELDING
 ALL HORIZONTAL COLD FORM LIP CHANNELS MUST BE ARC WELDED TO THE VERTICAL 100 IPE's ELECTRODE CLASSIFICATION - E60XX (ELECTRODES MUST COMPLY WITH SABS 0162-1:1993) WELDING MUST COMPLY WITH THE STANDARDS AS SET OUT IN SABS 044: 1953
 YIELD STRENGTH - 413 MPa
 TENSILE STRENGTH - 480 MPa



JOIN DETAIL 3

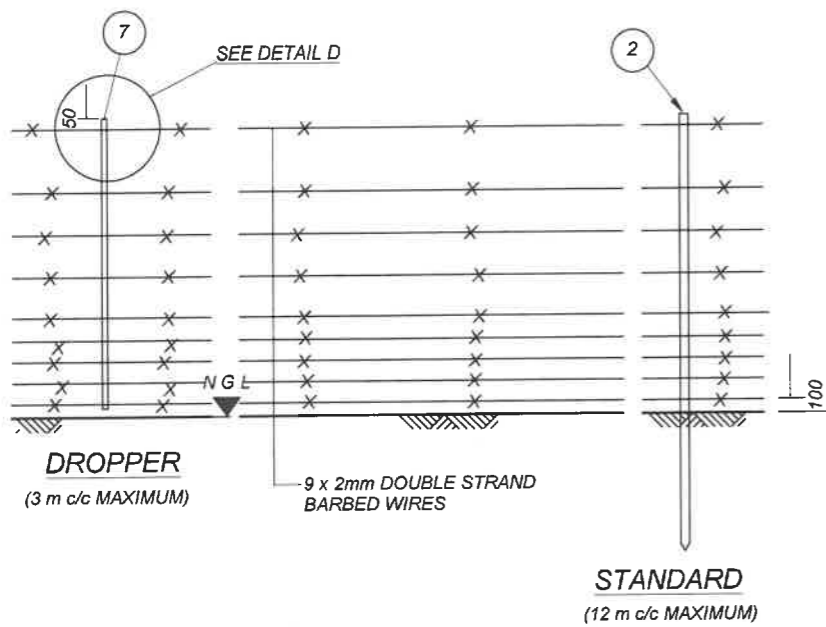


GATE HINGE EYE BOLT

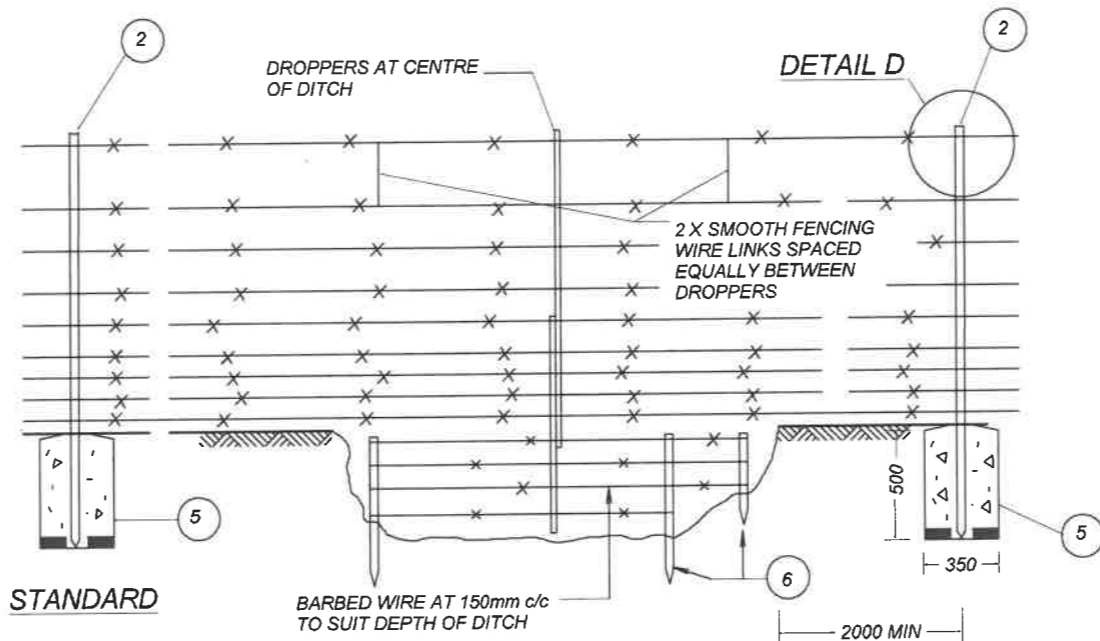


GATE DETAIL

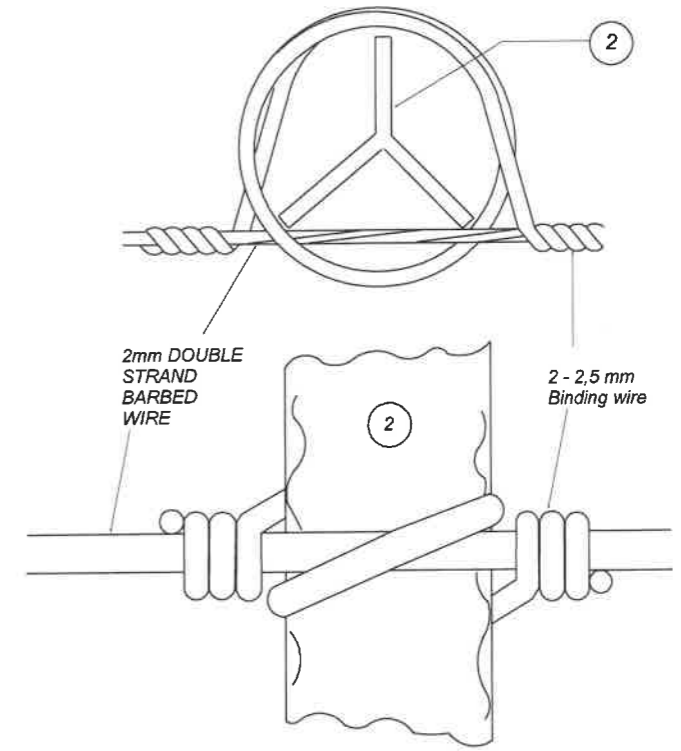
NO.	SPECIAL NOTES:	S KONDLO (CHIEF ENGINEER)	DEPARTMENT OF RURAL DEVELOPMENT AND AGRARIAN REFORM PROVINCE OF THE EASTERN CAPE	CATTLE SPRAY DIP RACE (STEEL)	SCALE	INDEX NO.
		OCTOBER 2024 (DATE APPROVED)	ENGINEERING SERVICES PRIVATE BAG X015 DOHNE ADI STUTTERHEIM 4930	DETAILS 2	A3 ORIGINAL	PLAN NO. SHEET 3 OF 6



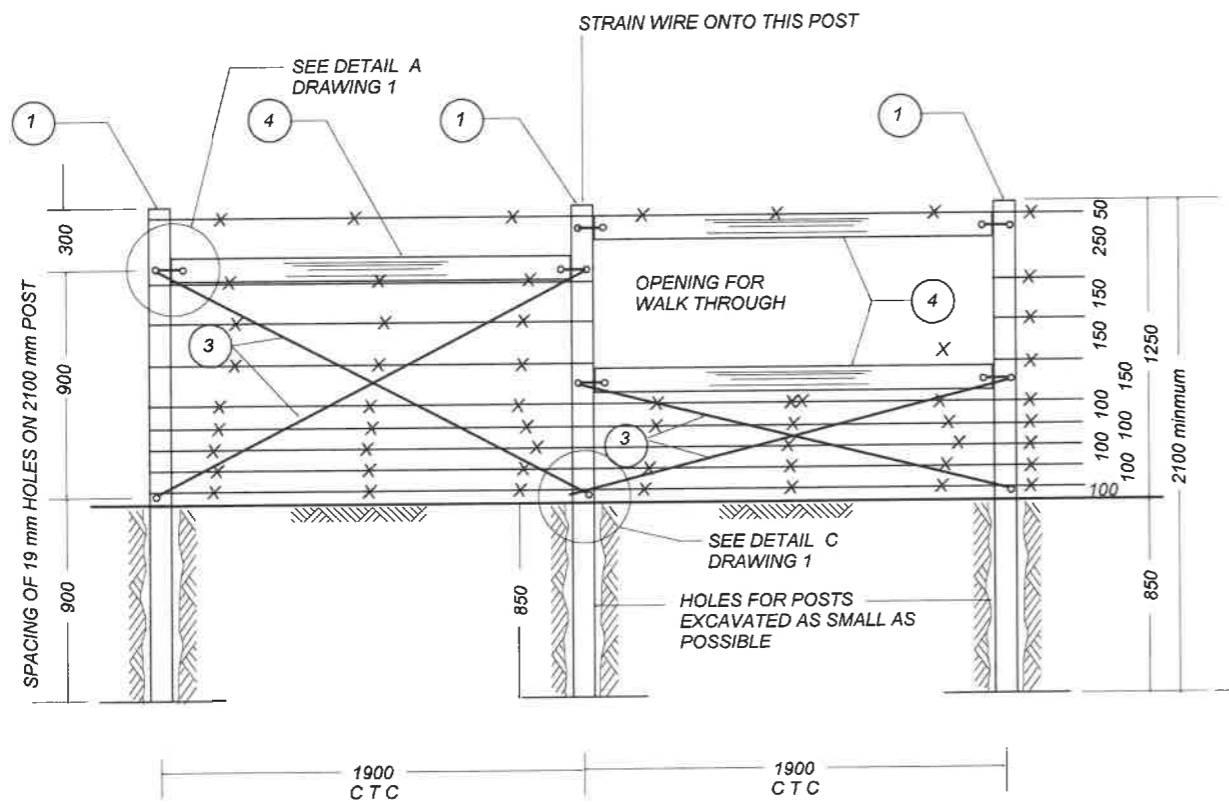
STOCK PROOF FENCE



CROSSING CANALS AND TRENCHES



DETAIL D



STRAINING POST with BOX ANCHOR WALKTHROUGH

(250m MAXIMUM SPACING)

LEGEND

- 1 — 125 - 150mm TOP DIAMETER x 2100 mm TREATED TIMBER POST CORNER, STRAINING AND ANCHOR POSTS
- 2 — 2,0 kg/m x 1800 mm Y SECTION IRON STANDARD
- 3 — 4mm x 4 STRANDS TWISTED SOFT GALVANISED BINDING WIRE
- 4 — 100 - 125mm TOP DIAMETER x 1800 mm TREATED TIMBER POST BRACES IN BOX ANCHORS
- 5 — STANDARDS EMBEDDED IN CLASS 20/19 CONCRETE IF ORDERED BY THE ENGINEER
- 6 — STAKES (DROPPER PROFILE) OF SUITABLE LENGTH DRIVEN FIRMLY INTO SIDES & BED OF TRENCH AT APPROVED SPACINGS. STAKES TO BE ALIGNED WITH & TIED TO DROPPERS WITH WIRE WHERE REQUIRED.
- 7 — 0,56 kg/m x 1150 mm RIDGEBACK PATTERN IRON DROPPER

NGL NATURAL GROUND LEVEL

NOTES:

THIS DRAWING TO BE READ IN CONJUNCTION WITH THE PROJECT PARTICULAR SPECIFICATIONS FOR FENCES

NO.	SPECIAL NOTES:	S KONDLO (CHIEF ENGINEER)	DEPARTMENT OF RURAL DEVELOPMENT AND AGRARIAN REFORM PROVINCE OF THE EASTERN CAPE	ENGINEERING SERVICES PRIVATE BAG X015 DOHNE ADI STUTTERHEIM 4930	STANDARD SPRAY DIP (STEEL)	SCALE NTS	INDEX NO. SCMM-03/3104
	OCTOBER 2024 (DATE APPROVED)				POND FENCE - 1	A3 ORIGINAL	PLAN NO. SHEET 4 OF 6

LEGEND

①
125 - 150mm TOP DIAMETER x 2100 mm TREATED TIMBER POST CORNER, STRAINING AND ANCHOR POSTS

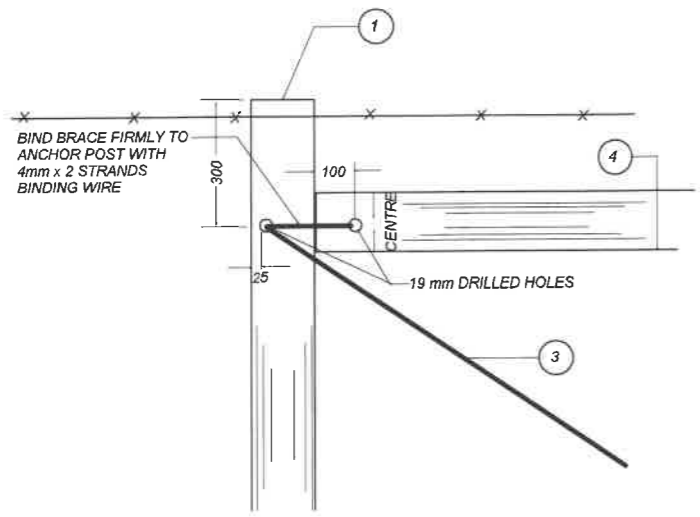
③
4mm x 4 STRANDS TWISTED SOFT GALVANISED BINDING WIRE

④
100 - 125mm TOP DIAMETER x 1800 mm TREATED TIMBER POST BRACES IN BOX ANCHORS

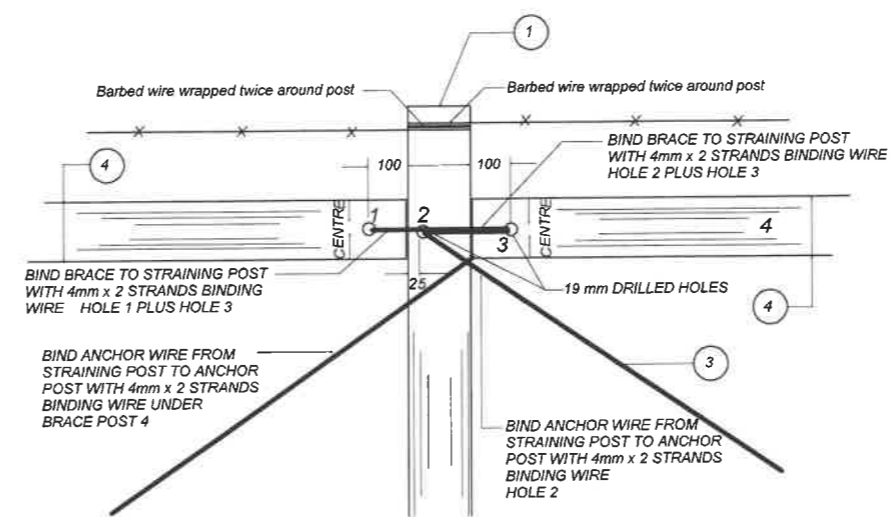
NOTES:

1. THIS DRAWING TO BE READ IN CONJUNCTION WITH THE PROJECT PARTICULAR SPECIFICATIONS FOR FENCES

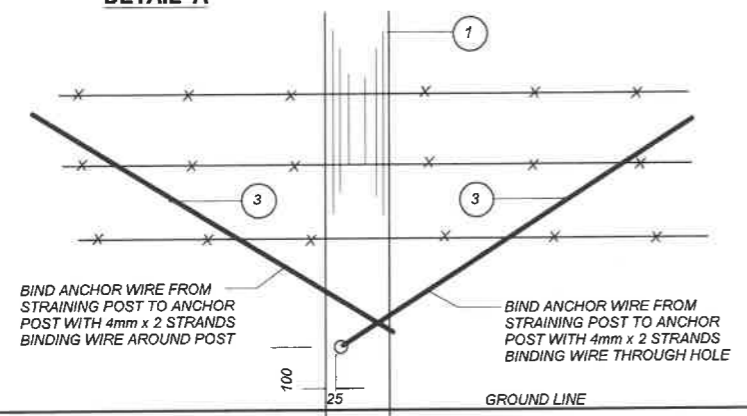
NGL NATURAL GROUND LEVEL



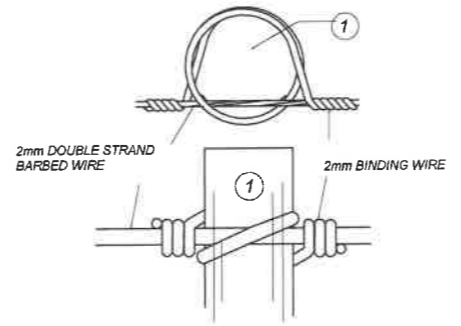
DETAIL A



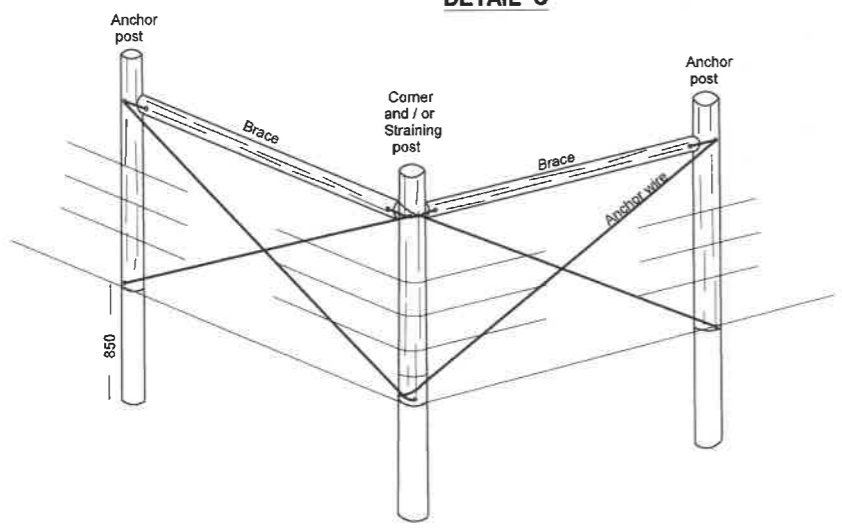
DETAIL B



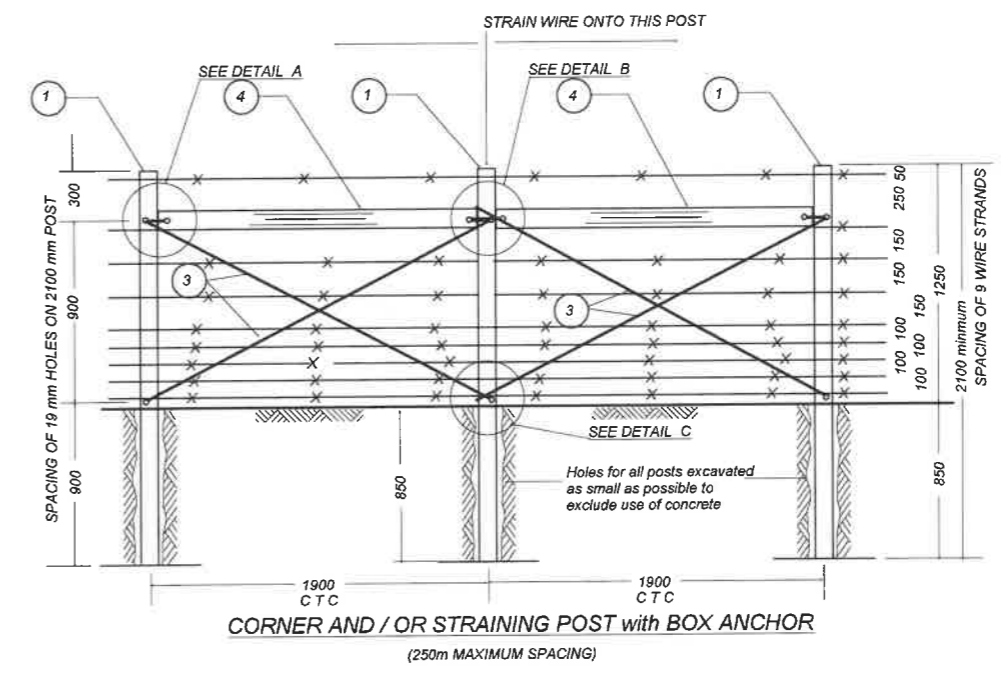
DETAIL C



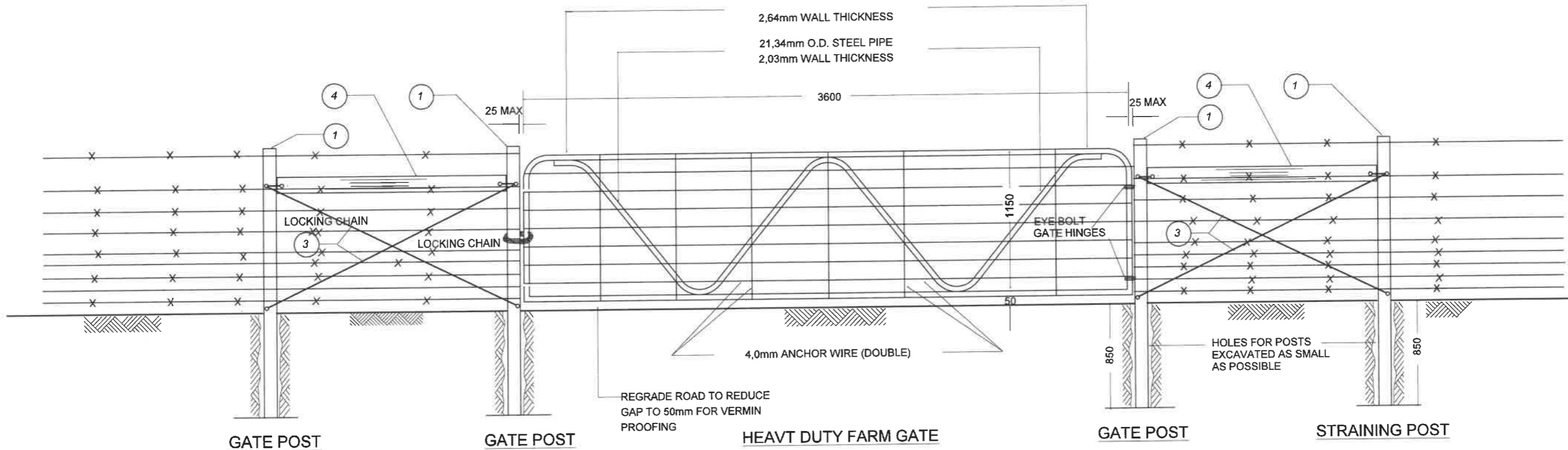
DETAIL D



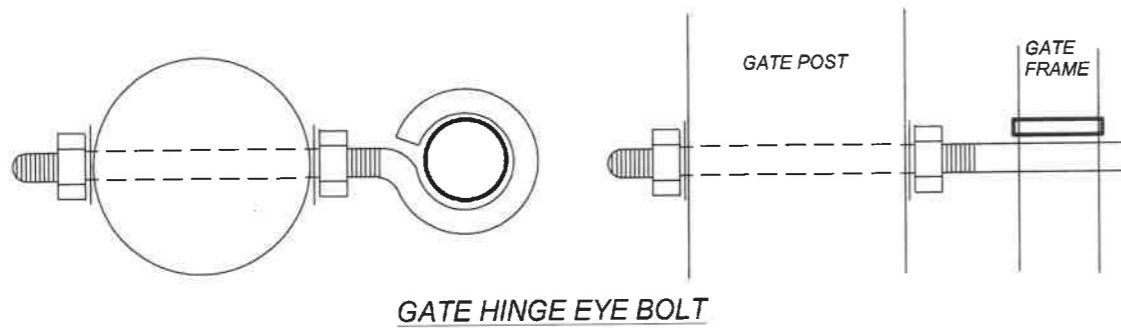
CORNER WITH BOX ANCHOR



NO.	SPECIAL NOTES:	S KONDLO (CHIEF ENGINEER)	DEPARTMENT OF RURAL DEVELOPMENT AND AGRARIAN REFORM PROVINCE OF THE EASTERN CAPE	STANDARD SPRAY DIP (STEEL)	SCALE	INDEX NO.
					NTS	SCMM-03/31/05
					A3 ORIGINAL	PLAN NO.
					POND FENCE - 2	SHEET 5 OF 6
		OCTOBER 2024 (DATE APPROVED)	ENGINEERING SERVICES PRIVATE BAG X015 DOHNE ADI STUTTERHEIM 4930			



FARM GATES



LEGEND

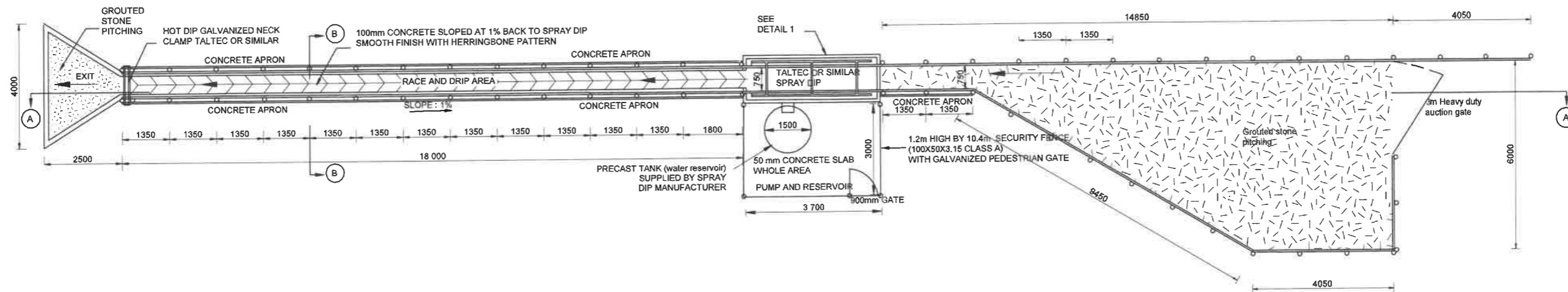
- ① 125 - 150mm TOP DIAMETER x 2100 mm TREATED TIMBER POST CORNER, STRAINING, GATE AND ANCHOR POSTS
- ③ 4mm x 4 STRANDS TWISTED SOFT GALVANISED BINDING WIRE
- ④ 100 - 125mm TOP DIAMETER x 1800 mm TREATED TIMBER POST BRACES IN BOX ANCHORS

NGL NATURAL GROUND LEVEL

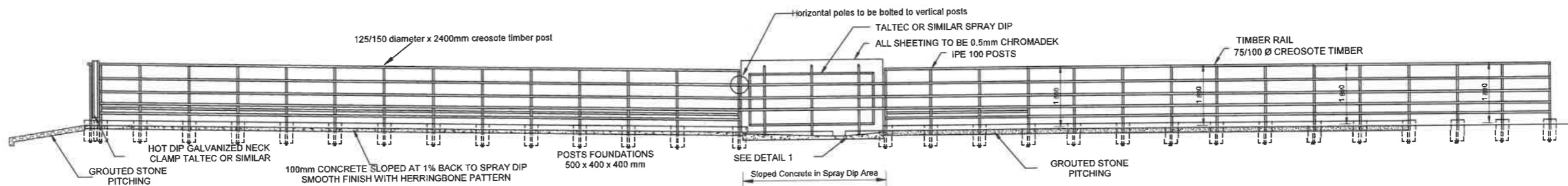
NOTES:
THIS DRAWING TO BE READ IN CONJUNCTION WITH THE PROJECT PARTICULAR SPECIFICATIONS FOR FENCES

NO.	SPECIAL NOTES:	S KONDLO (CHIEF ENGINEER)	DEPARTMENT OF RURAL DEVELOPMENT AND AGRARIAN REFORM PROVINCE OF THE EASTERN CAPE	STANDARD SPRAY DIP (STEEL)	SCALE NTS	INDEX NO. SCMM-03/31/06
		OCTOBER 2024 (DATE APPROVED)	ENGINEERING SERVICES PRIVATE BAG X015 DOHNE ADI STUTTERHEIM 4930	SITE LAYOUT PLAN	A3 ORIGINAL	PLAN NO. SHEET 6 OF 6

32 CATTLE SPAY RACE (TIMBER)



SPRAY DIP LAYOUT
SCALE 1:150 (A3)

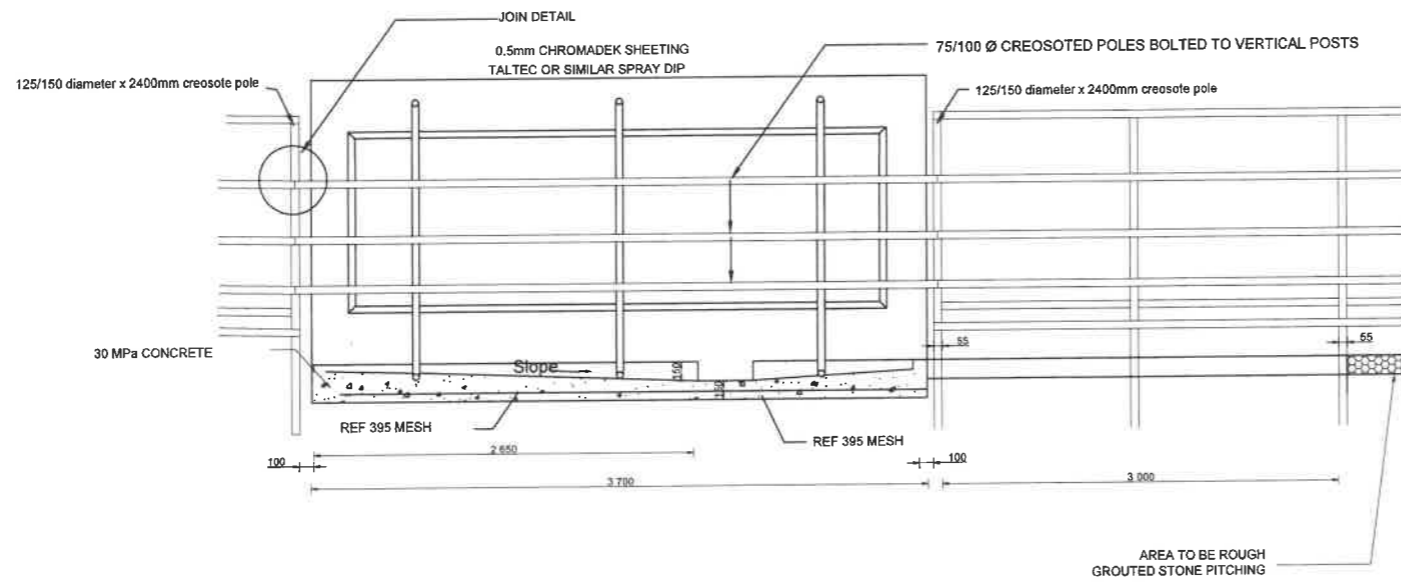


SECTION A-A
SCALE 1:150 (A3)

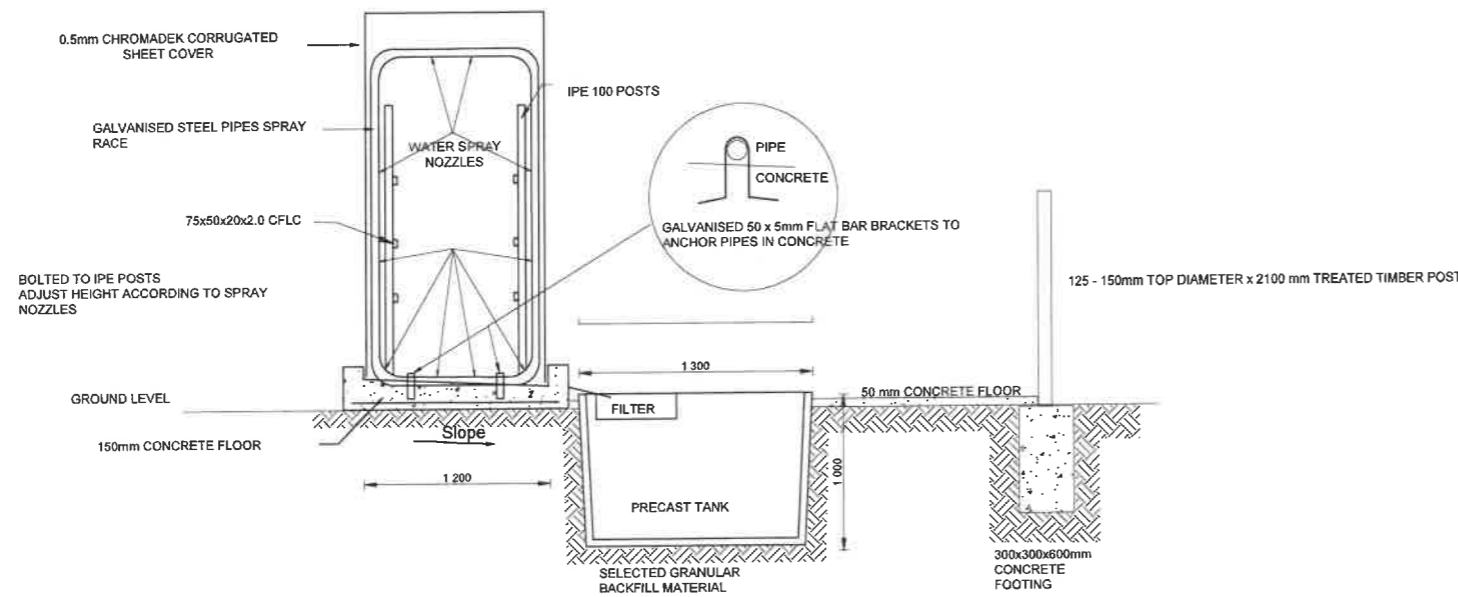
THIS OFFICE SHOULD BE NOTIFIED FOR INSPECTIONS AT THE FOLLOWING STAGES:

1. After the excavations has been completed and before concrete is placed.
2. After the formwork has been placed.
3. Before welding start on site

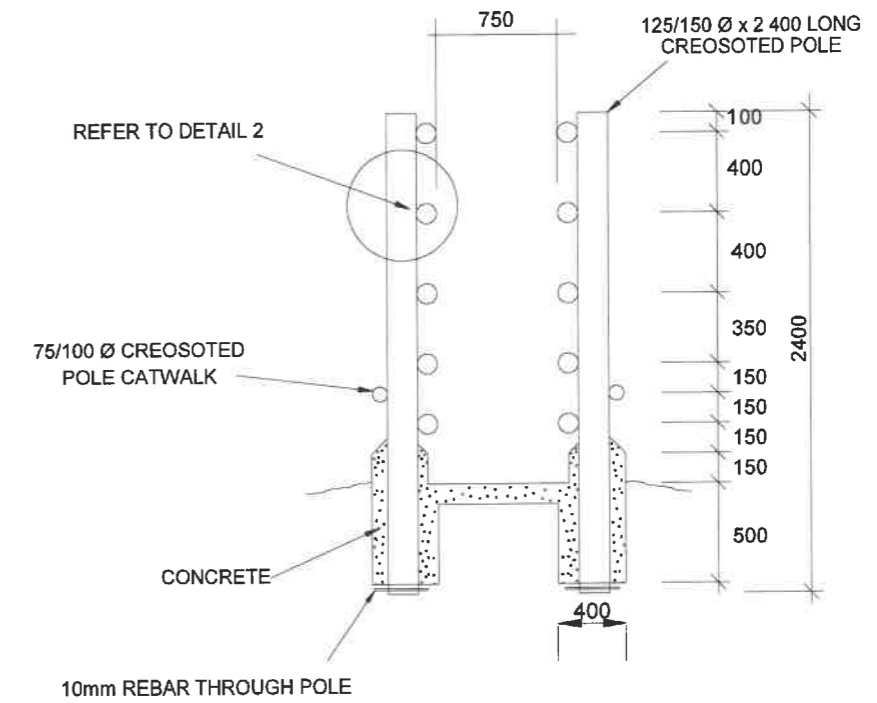
NO.	SPECIAL NOTES:	S KONDLO (CHIEF ENGINEER)	DEPARTMENT OF RURAL DEVELOPMENT AND AGRARIAN REFORM PROVINCE OF THE EASTERN CAPE	CATTLE SPRAY DIP RACE (TIMBER)	SCALE NTS	INDEX NO. SCMM-03/32/01
				SITE LAYOUT	A3 ORIGINAL	PLAN NO. SHEET 1 OF 6
		OCTOBER 2024 (DATE APPROVED)	ENGINEERING SERVICES PRIVATE BAG X015 DOHNE ADI STUTTERHEIM 4930			



SECTION C-C

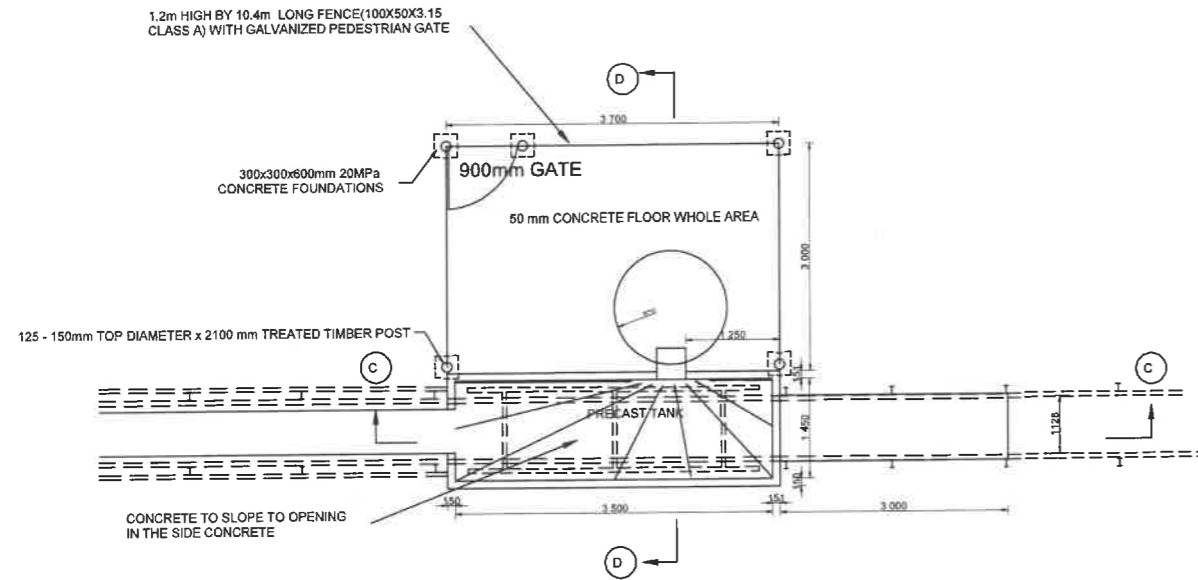


SECTION D-D

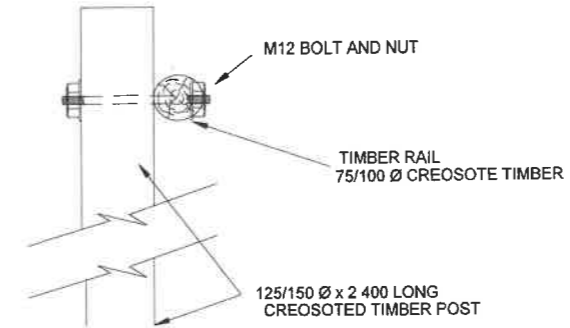


SECTION B-B

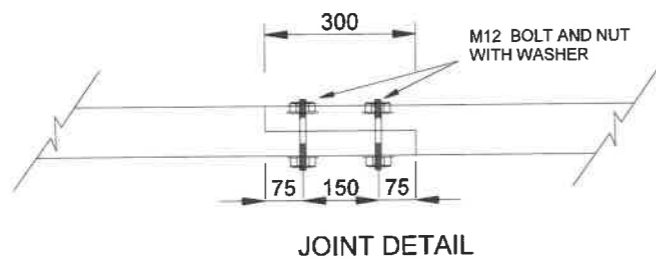
NO.	SPECIAL NOTES:	S KONDLO (CHIEF ENGINEER)	DEPARTMENT OF RURAL DEVELOPMENT AND AGRARIAN REFORM PROVINCE OF THE EASTERN CAPE	CATTLE SPRAY DIP RACE (TIMBER)	SCALE	INDEX NO.
		OCTOBER 2024 (DATE APPROVED)	ENGINEERING SERVICES PRIVATE BAG X015 DOHNE ADI STUTTERHEIM 4930	DETAILS 1	A3 ORIGINAL	PLAN NO. SHEET 2 OF 6



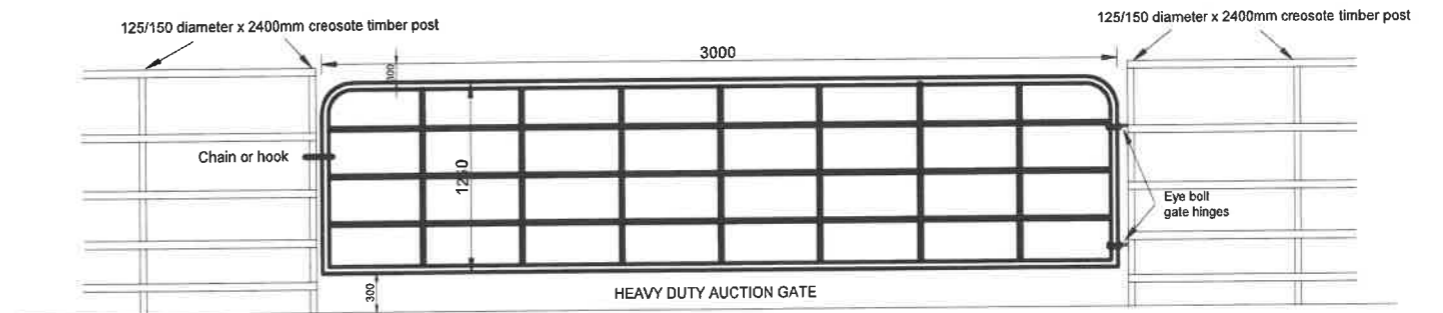
DETAIL 1



DETAIL 2

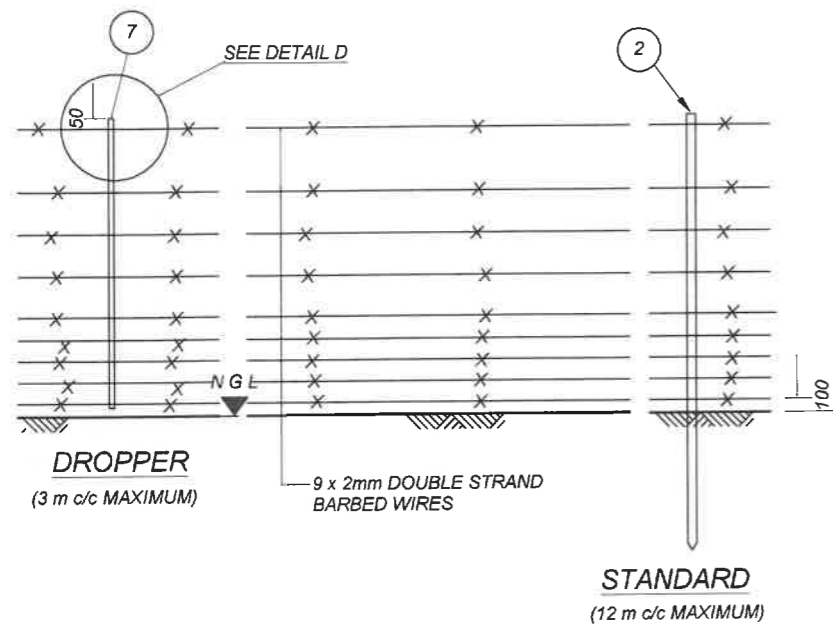


JOINT DETAIL

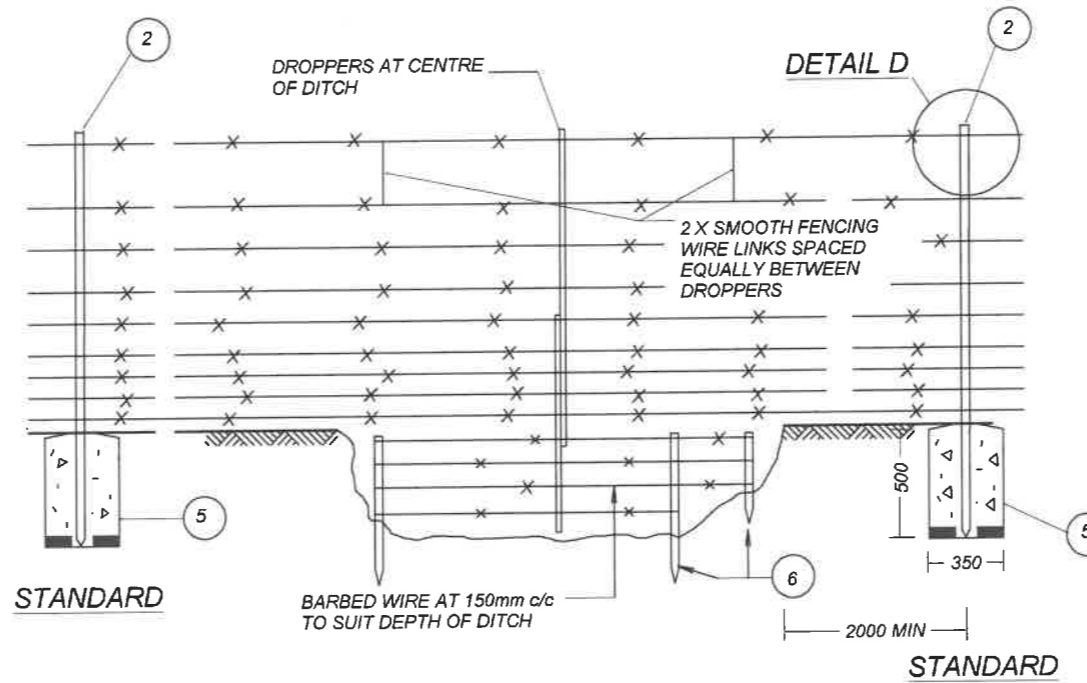


GATE DETAIL

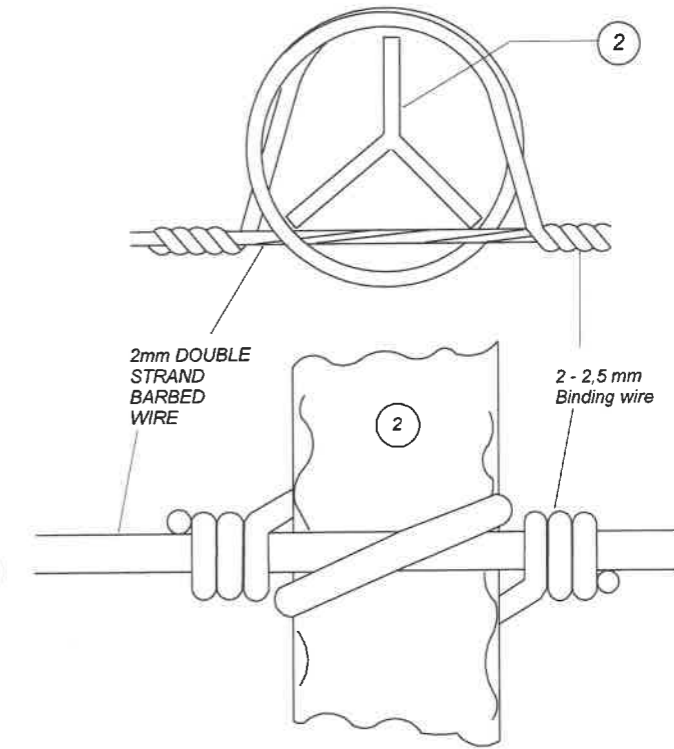
NO.	SPECIAL NOTES:	S KONDLO (CHIEF ENGINEER)	DEPARTMENT OF RURAL DEVELOPMENT AND AGRARIAN REFORM PROVINCE OF THE EASTERN CAPE	CATTLE SPRAY DIP RACE (TIMBER)	SCALE	INDEX NO.			
					NTS	SCMM-03/32/03			
					OCTOBER 2024 (DATE APPROVED)	ENGINEERING SERVICES PRIVATE BAG X015 DOHNE ADI STUTTERHEIM 4930	DETAILS 2	A3 ORIGINAL	PLAN NO.
									SHEET 3 OF 3



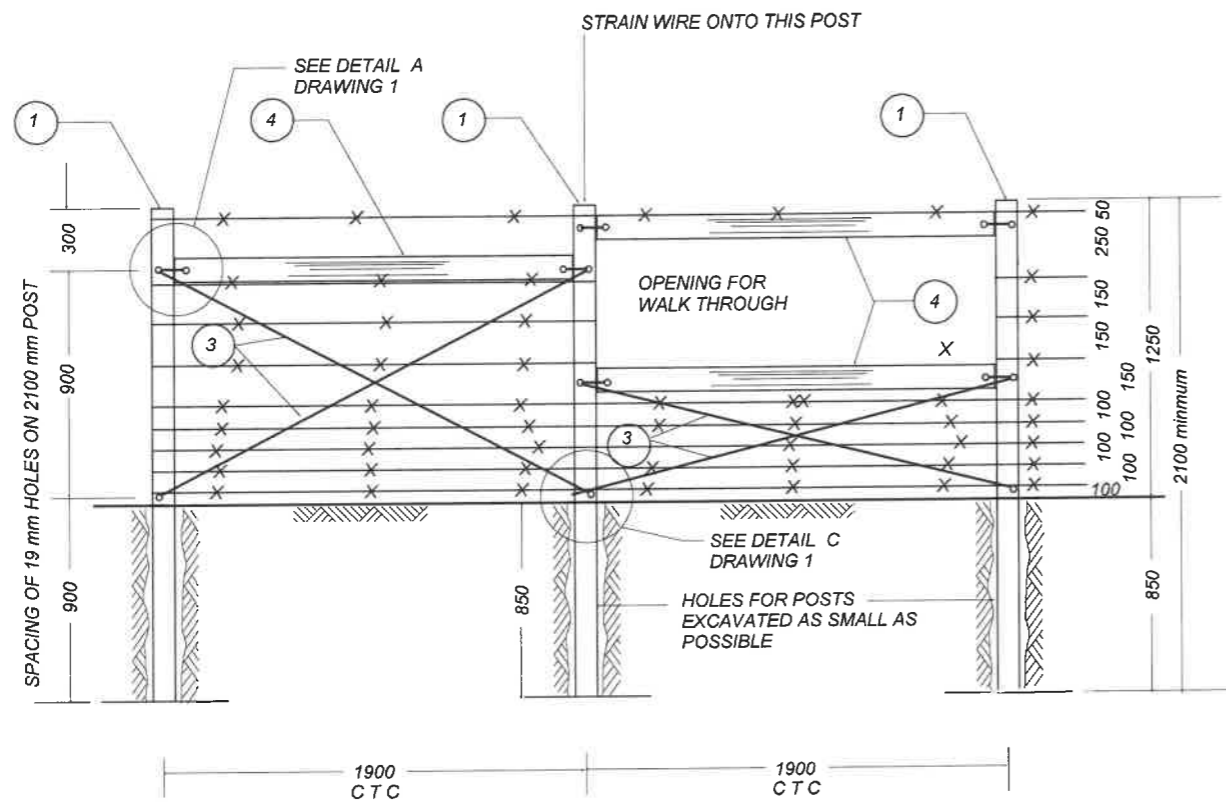
STOCK PROOF FENCE



CROSSING CANALS AND TRENCHES



DETAIL D



STRAINING POST with BOX ANCHOR WALKTHROUGH

(250m MAXIMUM SPACING)

LEGEND

- ① 125 - 150mm TOP DIAMETER x 2100 mm TREATED TIMBER POST
CORNER, STRAINING AND ANCHOR POSTS
- ② 2,0 kg/m x 1800 mm Y SECTION IRON STANDARD
- ③ 4mm x 4 STRANDS TWISTED SOFT GALVANISED BINDING WIRE
- ④ 100 - 125mm TOP DIAMETER x 1800 mm TREATED TIMBER POST
BRACES IN BOX ANCHORS
- ⑤ STANDARDS EMBEDDED IN CLASS 20/19 CONCRETE IF ORDERED BY THE ENGINEER
- ⑥ STAKES (DROPPER PROFILE) OF SUITABLE LENGTH DRIVEN FIRMLY INTO SIDES &
BED OF TRENCH AT APPROVED SPACINGS. STAKES TO BE ALIGNED WITH & TIED TO
DROPPERS WITH WIRE WHERE REQUIRED.
- ⑦ 0,56 kg/m x 1150 mm RIDGEBACK PATTERN IRON DROPPER

NGL NATURAL GROUND LEVEL

NOTES:

THIS DRAWING TO BE READ IN CONJUNCTION WITH THE PROJECT PARTICULAR SPECIFICATIONS FOR FENCES

NO.	SPECIAL NOTES:

S KONDLO
(CHIEF ENGINEER)

OCTOBER 2024
(DATE APPROVED)

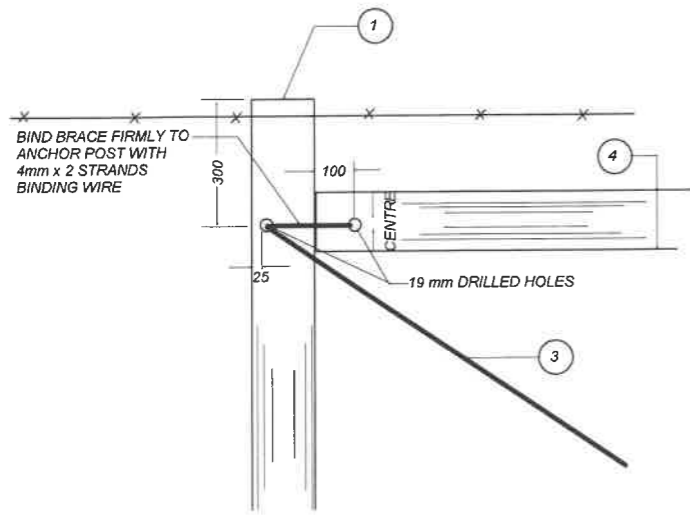
**DEPARTMENT OF RURAL DEVELOPMENT AND AGRARIAN REFORM
PROVINCE OF THE EASTERN CAPE**

ENGINEERING SERVICES
PRIVATE BAG X015
DOHNE ADI
STUTTERHEIM
4930

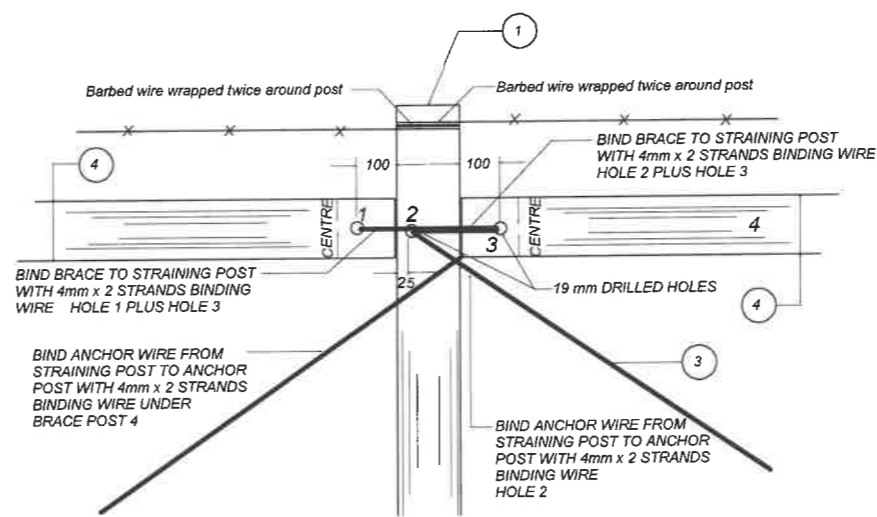
**STANDARD SPRAY DIP
(TIMBER)**

POND FENCE - 1

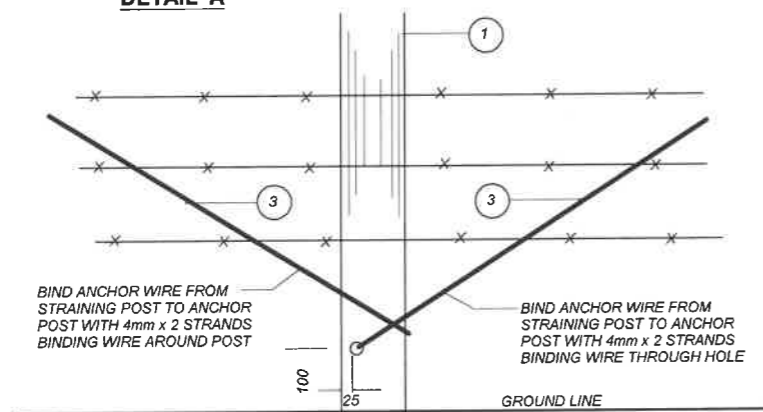
SCALE NTS	INDEX NO. SCMM-03/32/04
A3 ORIGINAL	PLAN NO. SHEET 4 OF 6



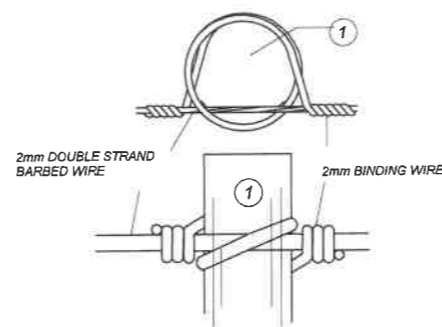
DETAIL A



DETAIL B



DETAIL C



DETAIL D

LEGEND

1

125 - 150mm TOP DIAMETER x 2100 mm TREATED TIMBER POST CORNER, STRAINING AND ANCHOR POSTS

3

4mm x 4 STRANDS TWISTED SOFT GALVANISED BINDING WIRE

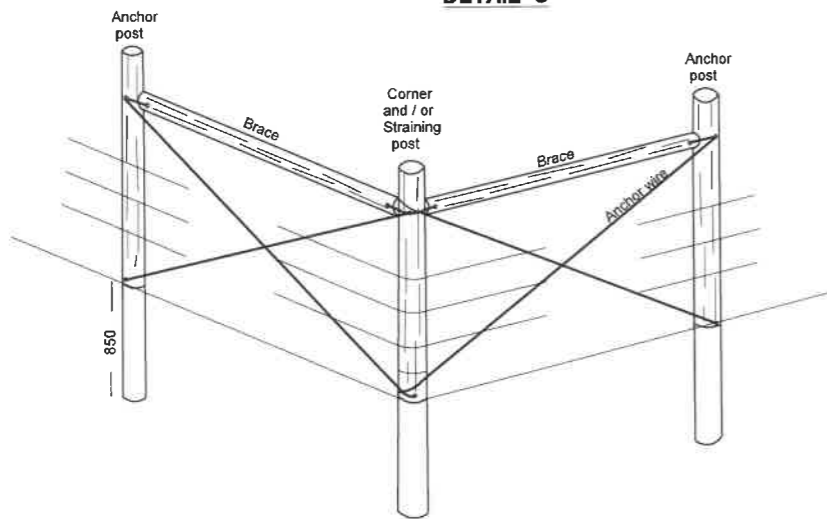
4

100 - 125mm TOP DIAMETER x 1800 mm TREATED TIMBER POST BRACES IN BOX ANCHORS

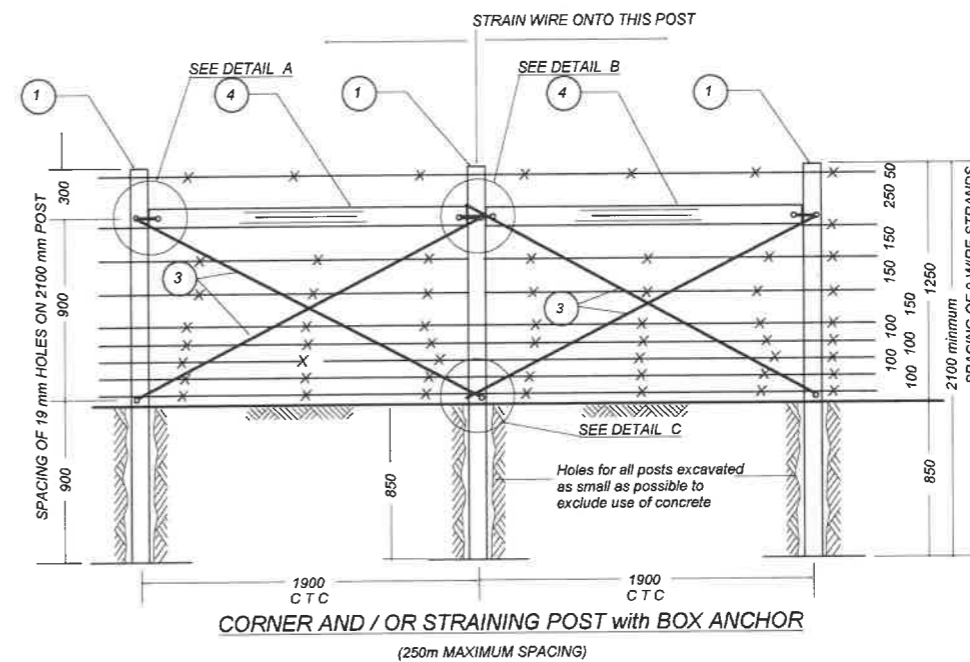
NOTES:

1. THIS DRAWING TO BE READ IN CONJUNCTION WITH THE PROJECT PARTICULAR SPECIFICATIONS FOR FENCES

NGL NATURAL GROUND LEVEL

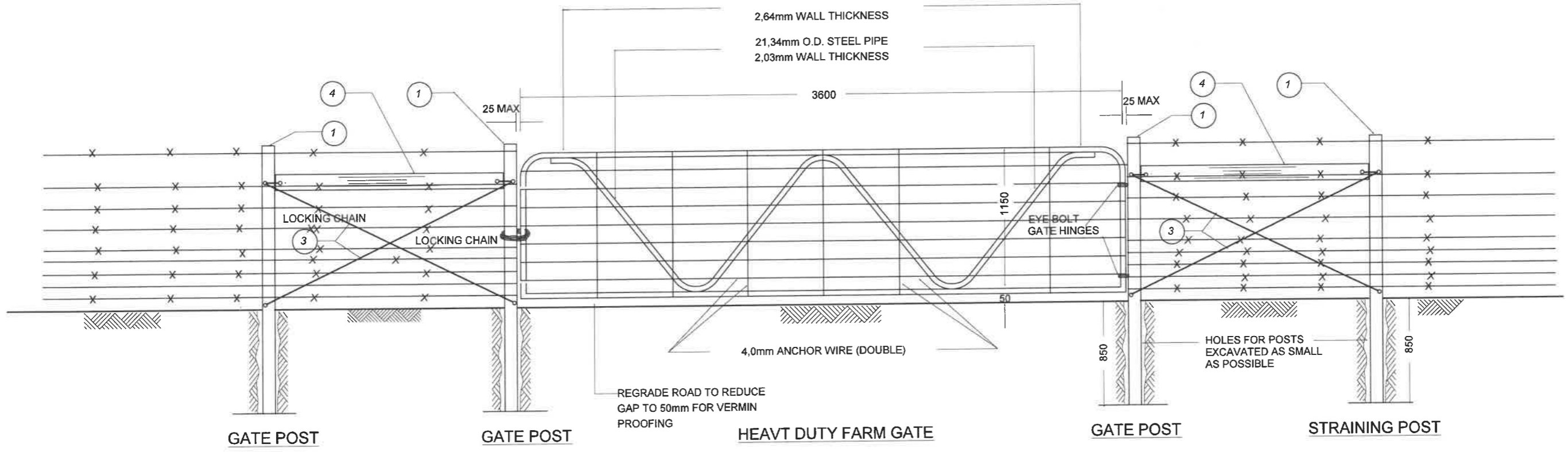


CORNER WITH BOX ANCHOR

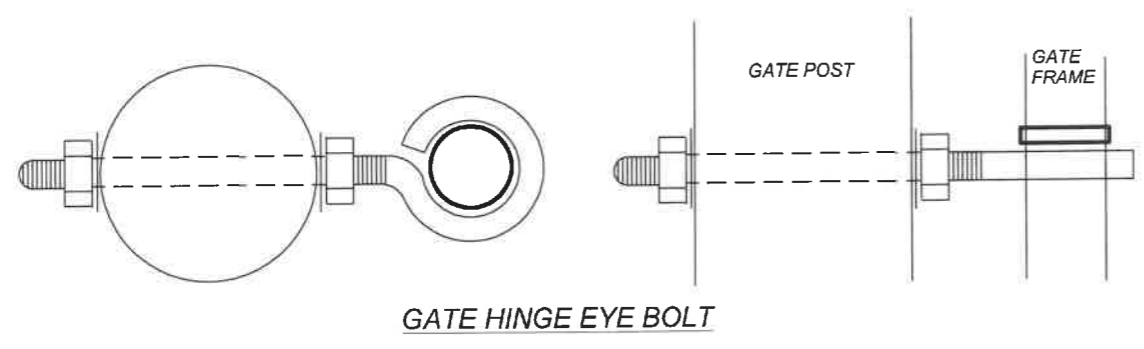


CORNER AND / OR STRAINING POST with BOX ANCHOR
(250m MAXIMUM SPACING)

NO.	SPECIAL NOTES:	S KONDLO (CHIEF ENGINEER)	DEPARTMENT OF RURAL DEVELOPMENT AND AGRARIAN REFORM PROVINCE OF THE EASTERN CAPE	STANDARD SPRAY DIP (TIMBER)	SCALE	INDEX NO.
					NTS	SCMM-03/32/05
		OCTOBER 2024 (DATE APPROVED)	ENGINEERING SERVICES PRIVATE BAG X015 DOHNE ADI STUTTERHEIM 4930	POND FENCE - 2	A3 ORIGINAL	PLAN NO. SHEET 5 OF 6



FARM GATES



LEGEND

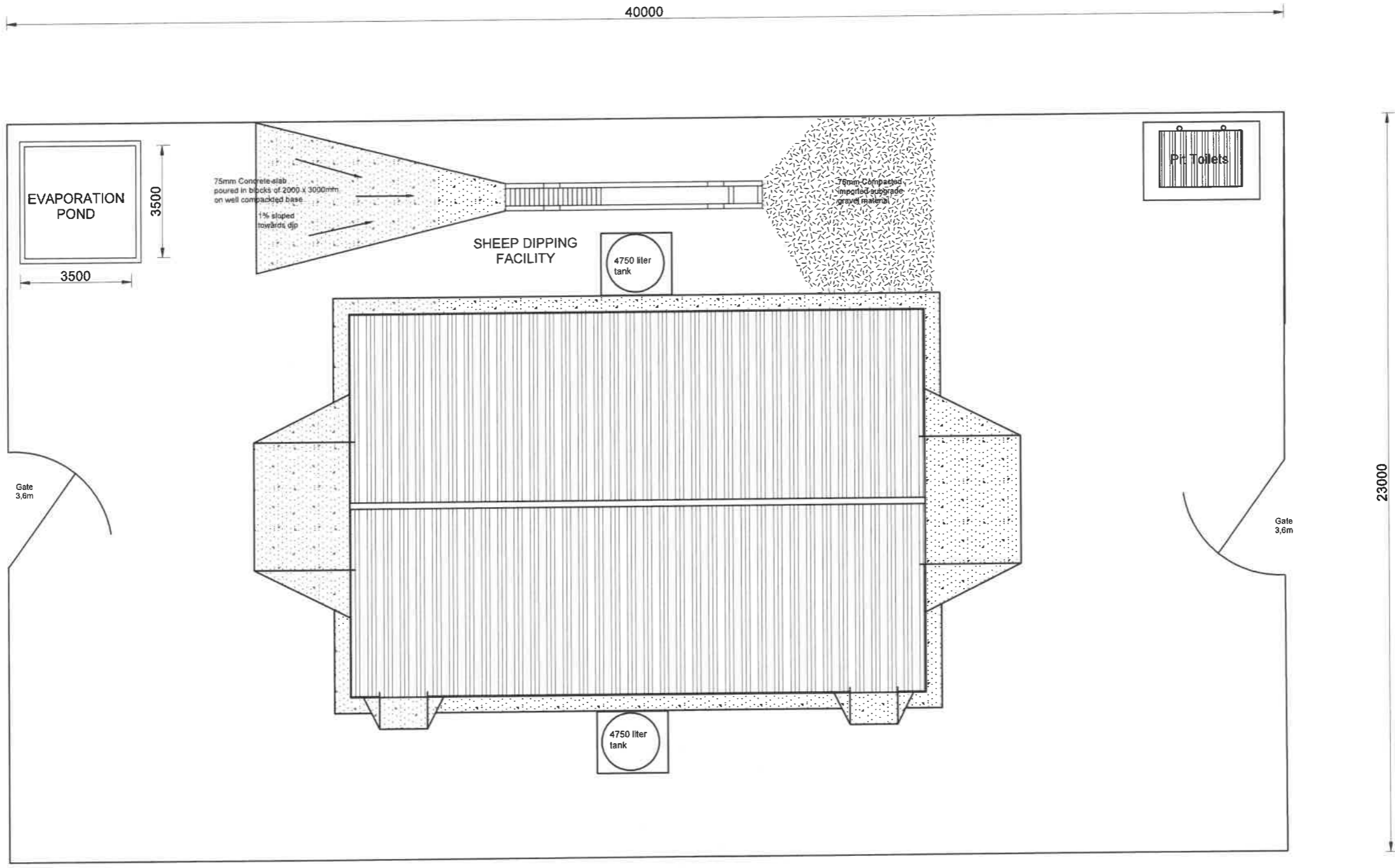
- ① 125 - 150mm TOP DIAMETER x 2100 mm TREATED TIMBER POST CORNER, STRAINING, GATE AND ANCHOR POSTS
- ③ 4mm x 4 STRANDS TWISTED SOFT GALVANISED BINDING WIRE
- ④ 100 - 125mm TOP DIAMETER x 1800 mm TREATED TIMBER POST BRACES IN BOX ANCHORS

NGL NATURAL GROUND LEVEL

NOTES:
THIS DRAWING TO BE READ IN CONJUNCTION WITH THE PROJECT PARTICULAR SPECIFICATIONS FOR FENCES

NO.	SPECIAL NOTES:	S KONDLO (CHIEF ENGINEER)	DEPARTMENT OF RURAL DEVELOPMENT AND AGRARIAN REFORM PROVINCE OF THE EASTERN CAPE	STANDARD SPRAY DIP (TIMBER)	SCALE NTS	INDEX NO. SCMM-03/32/06
		OCTOBER 2024 (DATE APPROVED)	ENGINEERING SERVICES PRIVATE BAG X015 DOHNE ADI STUTTERHEIM 4930	SITE LAYOUT PLAN	A3 ORIGINAL	PLAN NO. SHEET 6 OF 6

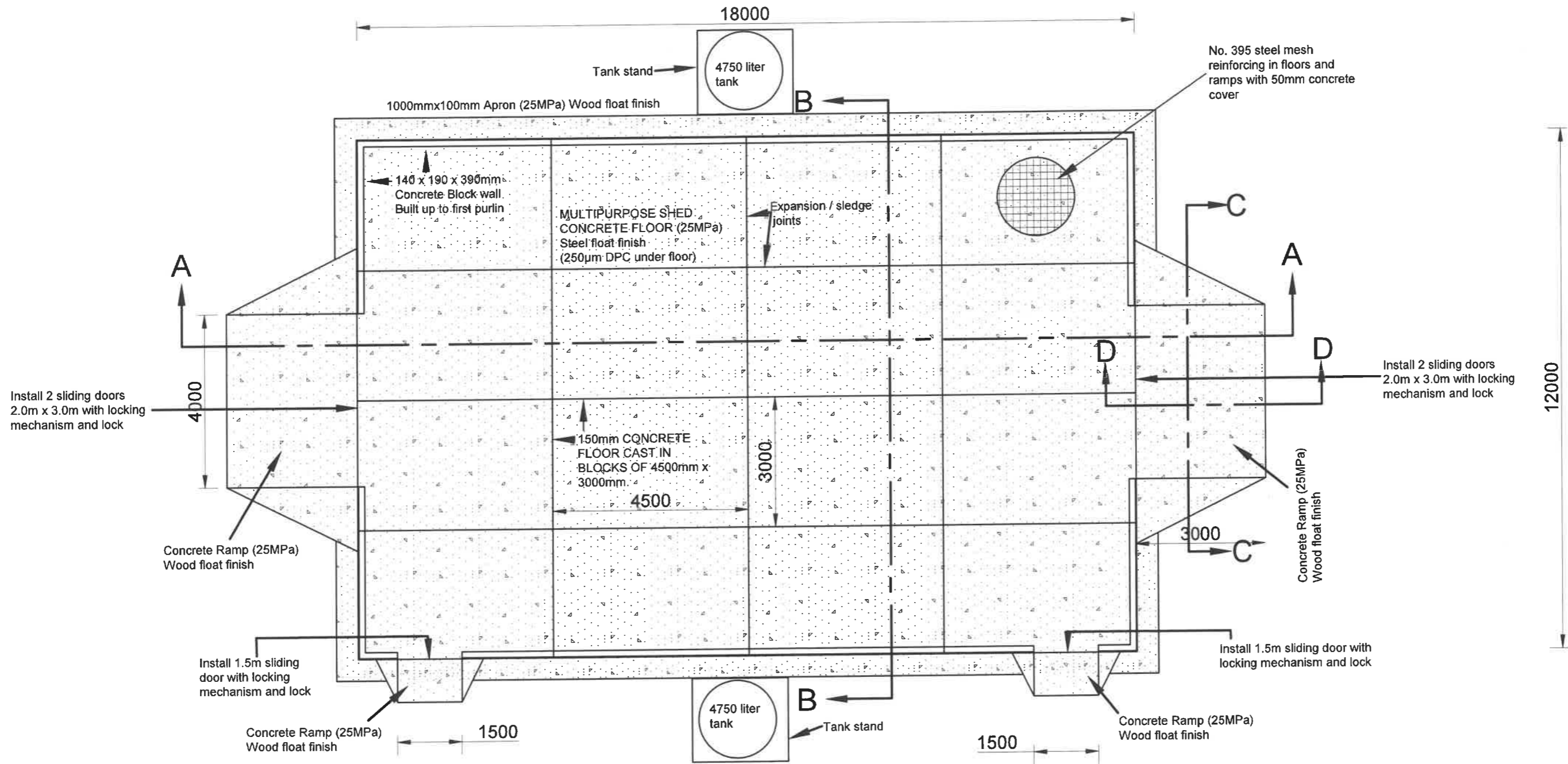
33 STANDARD MULTI-PURPOSE SHED



SITE LAYOUT
SCALE 1:150

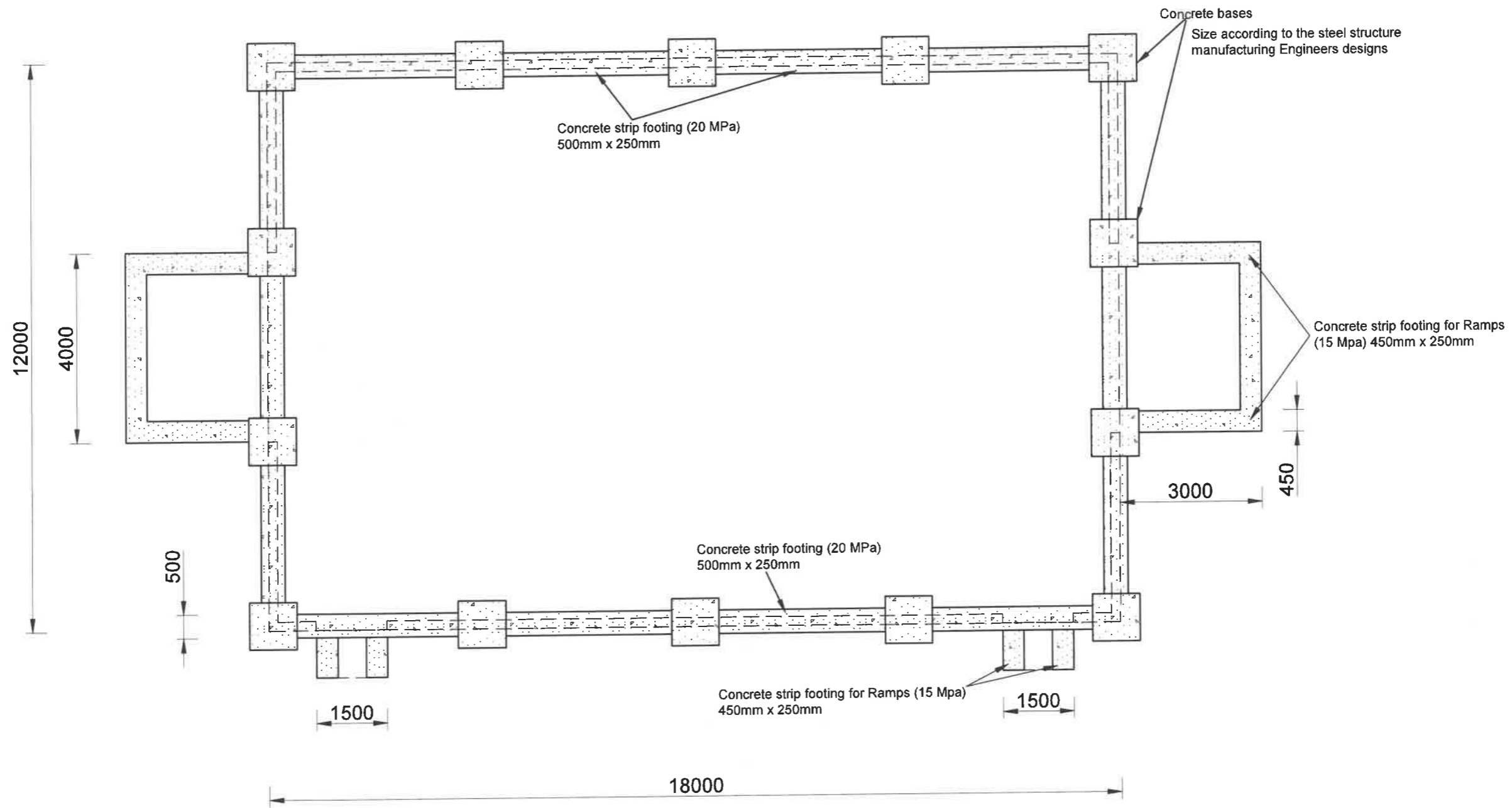
NB: IT IS IMPORTANT THAT THE ATTENTION IS GIVEN TO THE SLOPE OF THE SITE, THE DRAINING TOWARDS THE SITE, AND THE DRAINAGE OF RUN-OFF WATER ON SITE.

NO.	SPECIAL NOTES:	S KONDLO (CHIEF ENGINEER)	DEPARTMENT OF RURAL DEVELOPMENT AND AGRARIAN REFORM PROVINCE OF THE EASTERN CAPE	MULTIPURPOSE SHED	SCALE NTS	INDEX NO. SCMM-03/33/01
				SITE LAYOUT PLAN	A3 ORIGINAL	PLAN NO. SHEET 1 OF 7
		OCTOBER 2024 (DATE APPROVED)	ENGINEERING SERVICES PRIVATE BAG X015 DOHNE ADI STUTTERHEIM 4930			



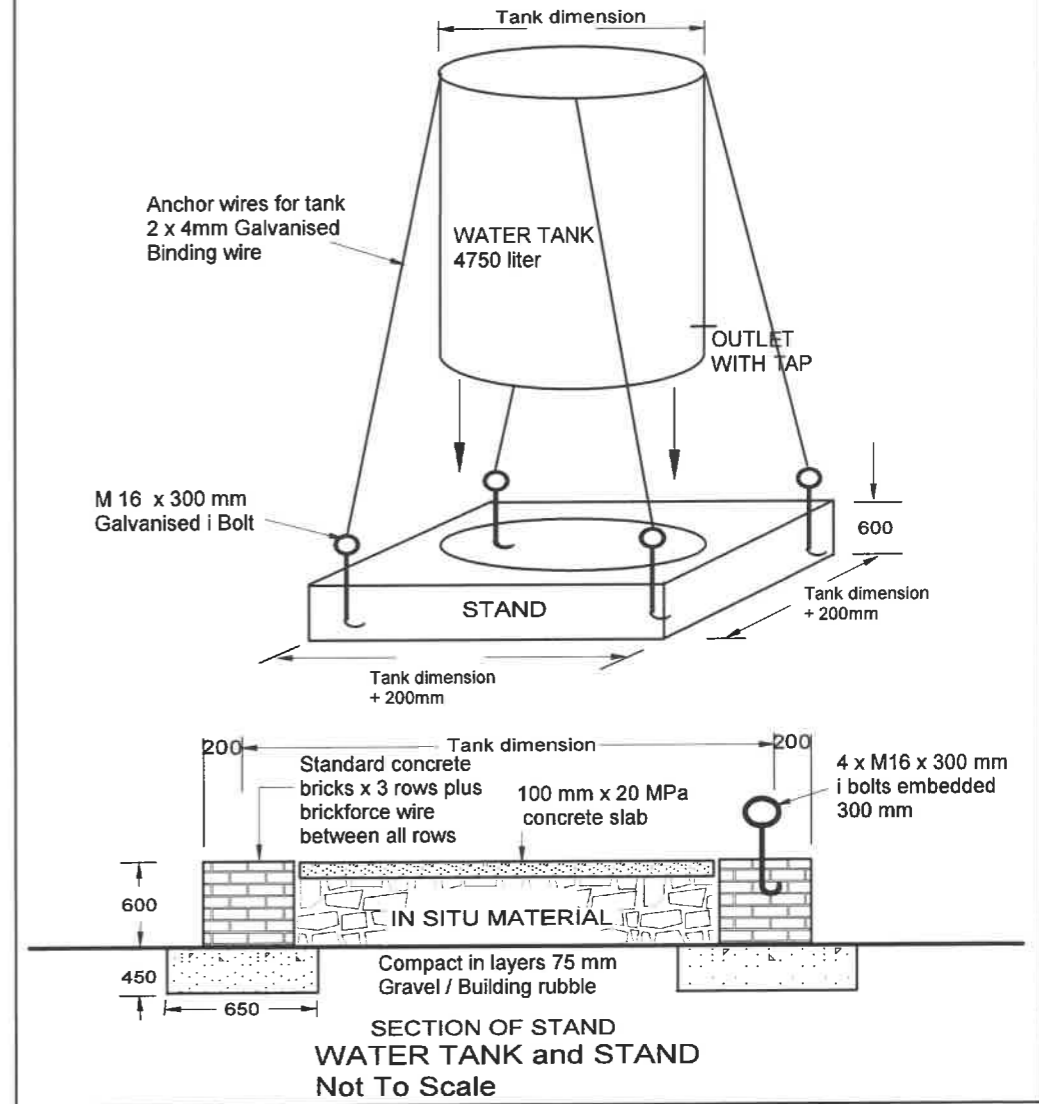
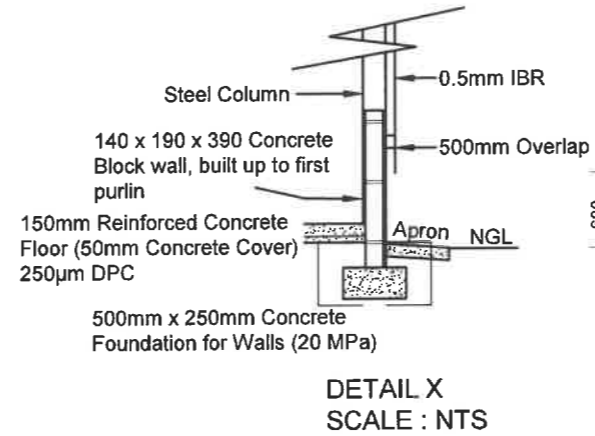
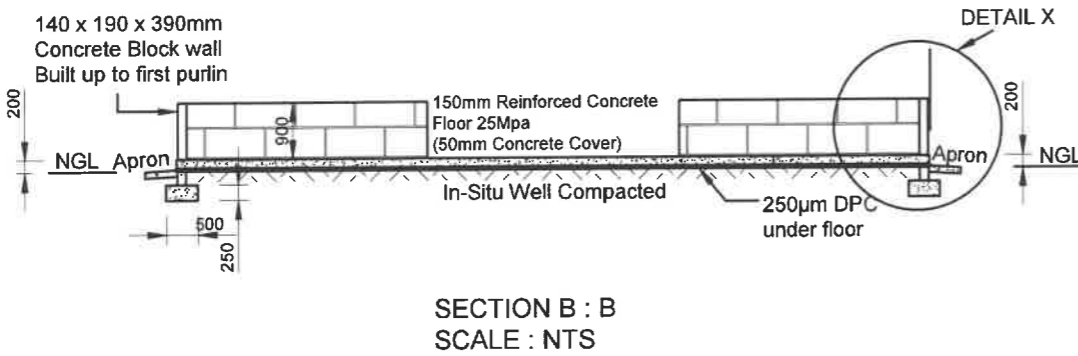
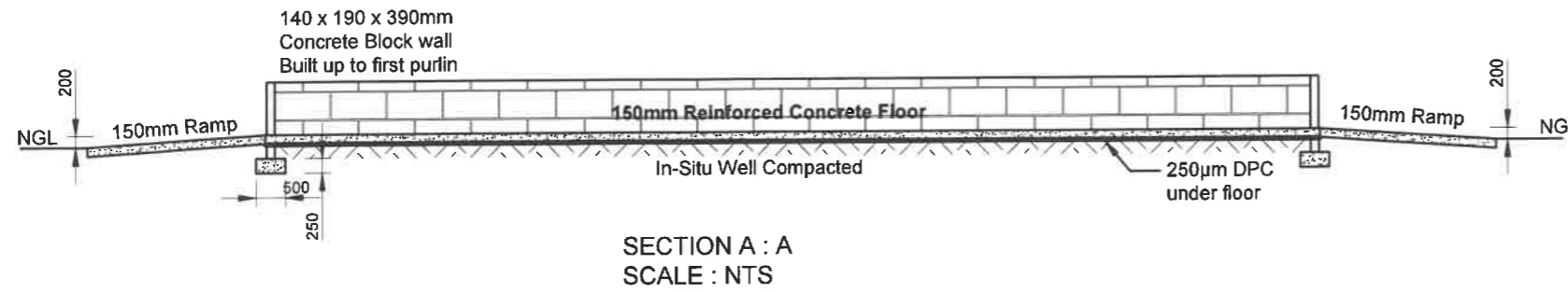
FLOOR PLAN
SCALE 1 : 100 ON A3

NO.	SPECIAL NOTES:	S KONDLO (CHIEF ENGINEER)	DEPARTMENT OF RURAL DEVELOPMENT AND AGRARIAN REFORM PROVINCE OF THE EASTERN CAPE	MULTIPURPOSE SHED	SCALE	INDEX NO.
				FLOOR LAY-OUT PLAN	NTS	SCMM-03/33/02
		OCTOBER 2024 (DATE APPROVED)	ENGINEERING SERVICES PRIVATE BAG X015 DOHNE ADI STUTTERHEIM 4930	A3 ORIGINAL		PLAN NO. SHEET 2 OF 7

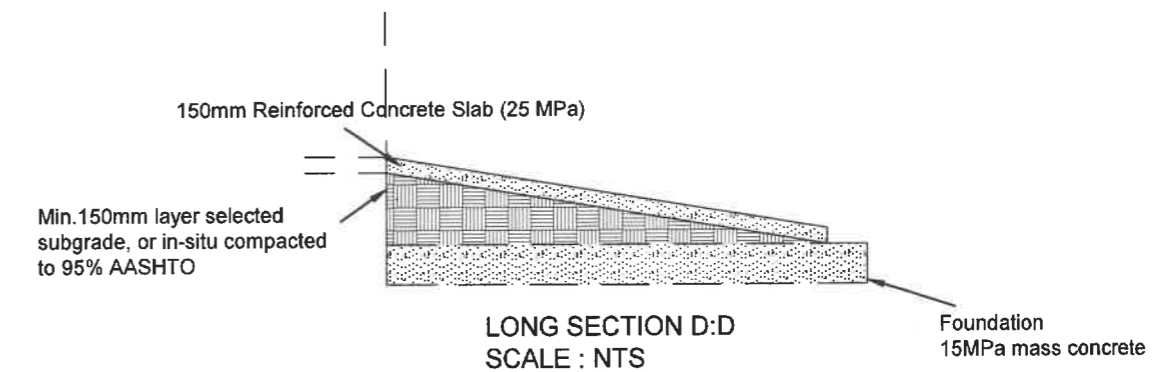
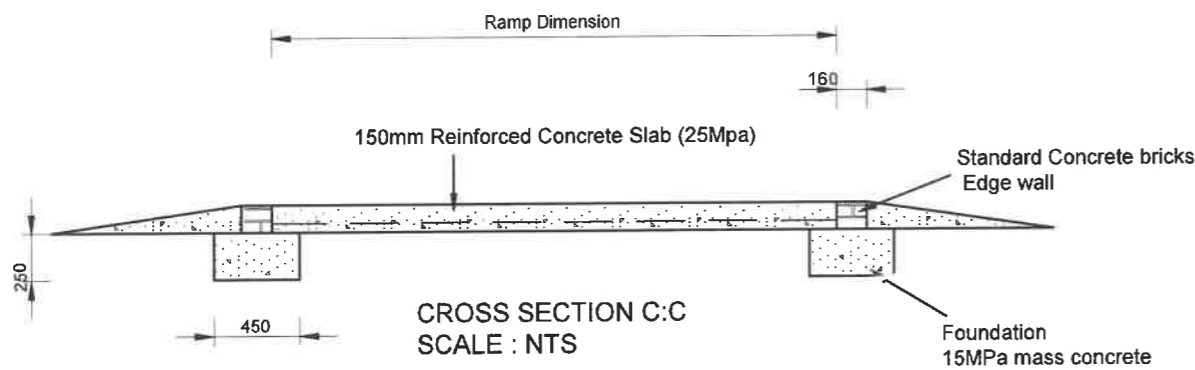


**FOUNDATION PLAN
SCALE 1 :100 ON A3**

NO.	SPECIAL NOTES:	S KONDLO (CHIEF ENGINEER)	DEPARTMENT OF RURAL DEVELOPMENT AND AGRARIAN REFORM PROVINCE OF THE EASTERN CAPE	MULTIPURPOSE SHED	SCALE NTS	INDEX NO. SCMM-03/33/03
				FOUNDATION PLAN	A3 ORIGINAL	PLAN NO. SHEET 3 OF 7
		OCTOBER 2024 (DATE APPROVED)	ENGINEERING SERVICES PRIVATE BAG X015 DOHNE ADI STUTTERHEIM 4930			



DETAIL OF CONCRETE RAMP

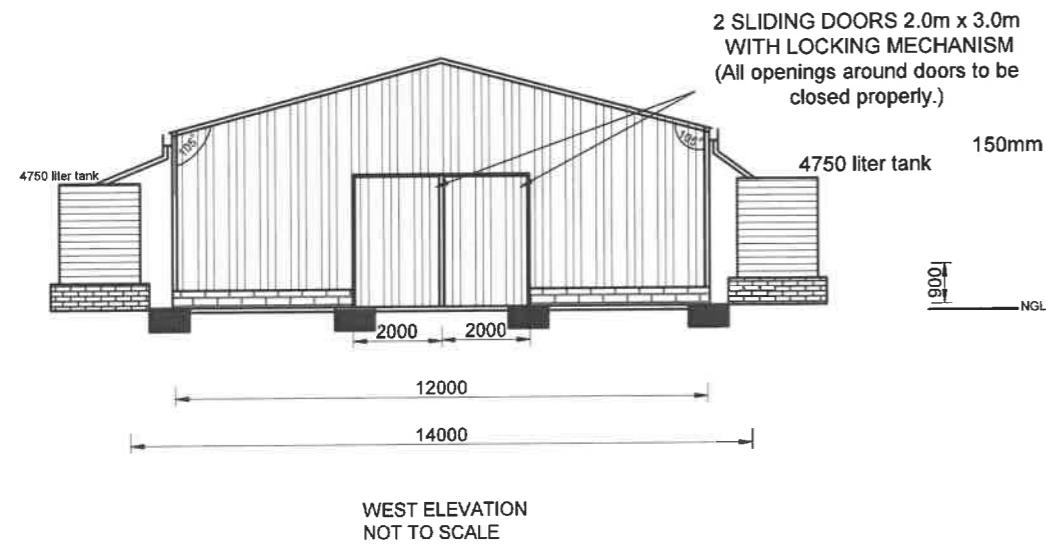
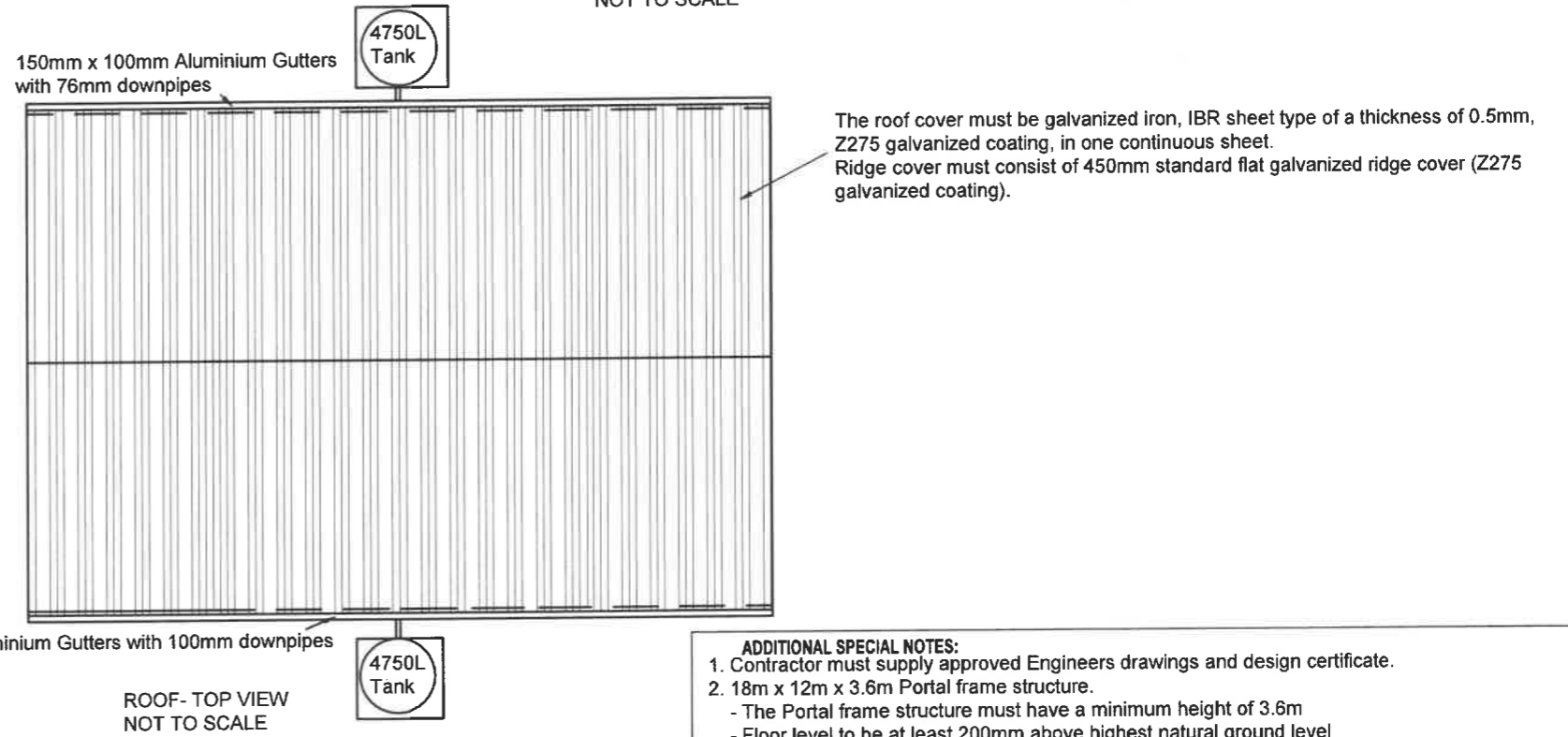
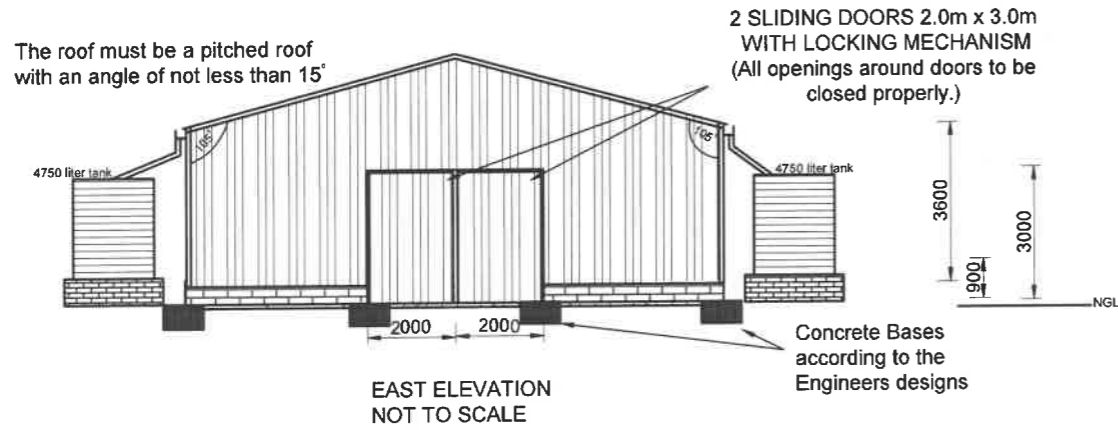
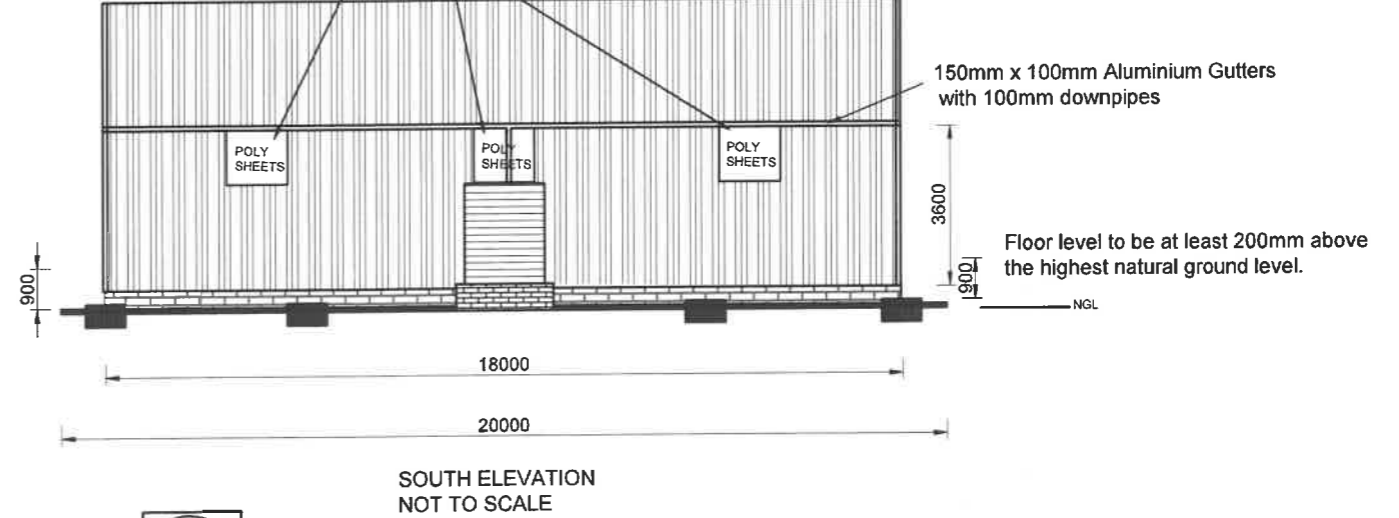
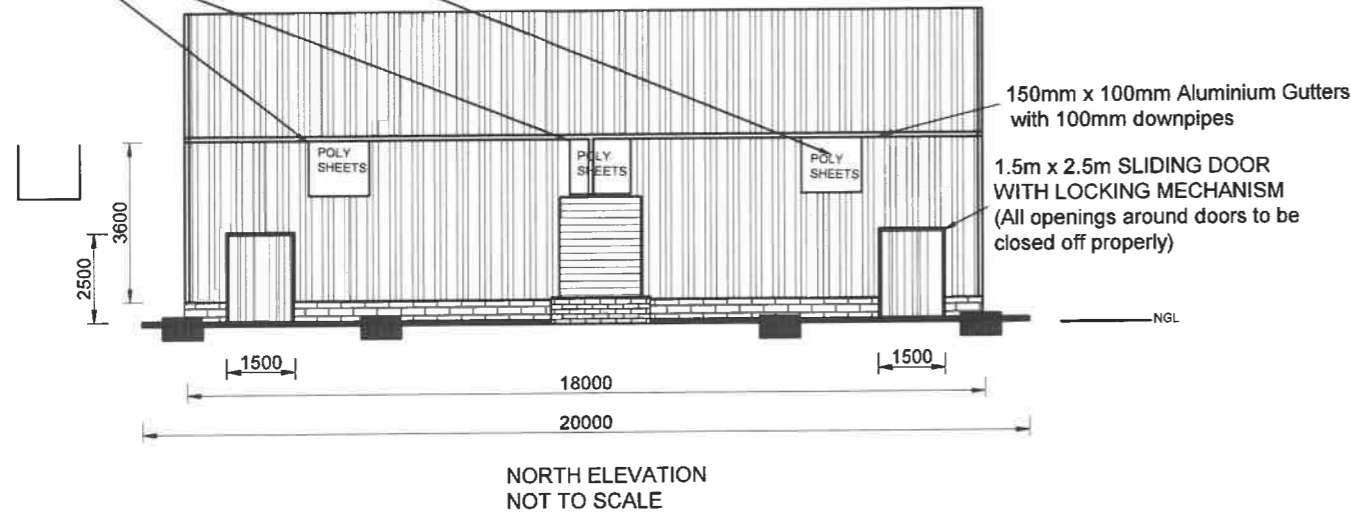


Note:
Dimensions dependant on
site specific conditions

NO.	SPECIAL NOTES:	S KONDLO (CHIEF ENGINEER)	DEPARTMENT OF RURAL DEVELOPMENT AND AGRARIAN REFORM PROVINCE OF THE EASTERN CAPE	MULTIPURPOSE SHED	SCALE	INDEX NO.
					NTS	SCMM-03/33/04
		OCTOBER 2024 (DATE APPROVED)	ENGINEERING SERVICES PRIVATE BAG X015 DOHNE ADI STUTTERHEIM 4930	SECTIONS AND TANK STAND	A3 ORIGINAL	PLAN NO. SHEET 4 OF 7

1.2mm Polycarbonate Translucent IBR sheet at 3 500mm 1.2m (h) and 1.37m(w)
(two sheet wide, between top and bottom cladding supports)

1.2mm Polycarbonate Translucent IBR sheet at 3 500mm 1.2m (h) and 1.37m(w)
(two sheet wide, between top and bottom cladding supports)

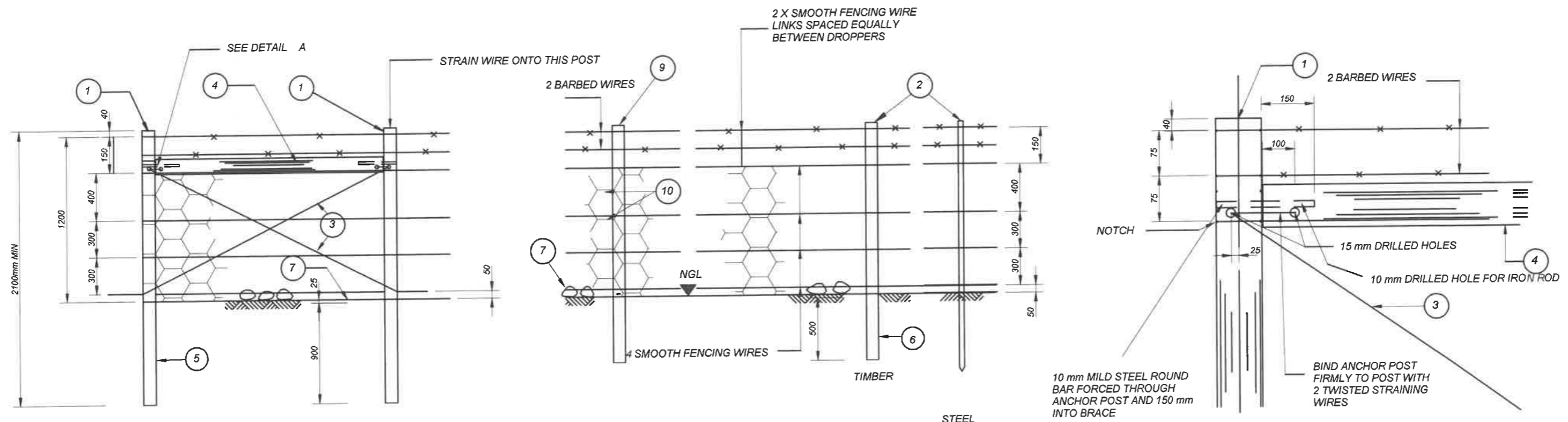


DESIGN:

- The sub-contractor/supplier of the Steel Portal Frame Structure will be:
- The structure must be designed to withstand all wind-, snow-, hail- and any other applicable loads.
- A Certificate of Compliance will be issued by the design engineer to the DRDAR after the completion of the structure.

- ADDITIONAL SPECIAL NOTES:**
- Contractor must supply approved Engineers drawings and design certificate.
 - 18m x 12m x 3.6m Portal frame structure.
 - The Portal frame structure must have a minimum height of 3.6m
 - Floor level to be at least 200mm above highest natural ground level
 - Manufacturing of the portal frame structure will not be allowed on site.
 - Painting of the Portal frame structure: One (1) coat of grey etch primer and two (2) coats of QD enamel to the columns, rafters and bracings. (On-site painting will not be allowed.)
 - All purlins and cladding supports (lip channel sections) will have a maximum spacing of 1,2m.
 - 0.5mm IBR cladding - Z150 Galvanized coating
 - 2 x 2m sliding doors, to open to both sides, on gable ends, according to the Engineers designs. (All openings closed off properly)
 - 2 x 1.5m sliding doors according to the Engineers designs, as indicated on floor plan. (All openings around doors closed off properly)
 - 140 x 190 x 390mm concrete blocks built up to first purlin.
 - IBR to overlap block wall by at least 500mm, and opening between block wall and structure restricted.
 - 8 x Polycarbonate Translucent IBR sheets (1.2mm) to be fitted on the roof, 4 on each side.
 - 150mm x 100mm Aluminium Gutters with 100mm downpipes.

NO.	SPECIAL NOTES:	S KONDLO (CHIEF ENGINEER)	DEPARTMENT OF RURAL DEVELOPMENT AND AGRARIAN REFORM PROVINCE OF THE EASTERN CAPE	ENGINEERING SERVICES PRIVATE BAG X015 DOHNE ADI STUTTERHEIM 4930	MULTIPURPOSE SHED	SCALE	INDEX NO.
					ELEVATIONS	NTS	SCMM-03/33/05
		OCTOBER 2024 (DATE APPROVED)				A3 ORIGINAL	PLAN NO. SHEET 5 OF 7



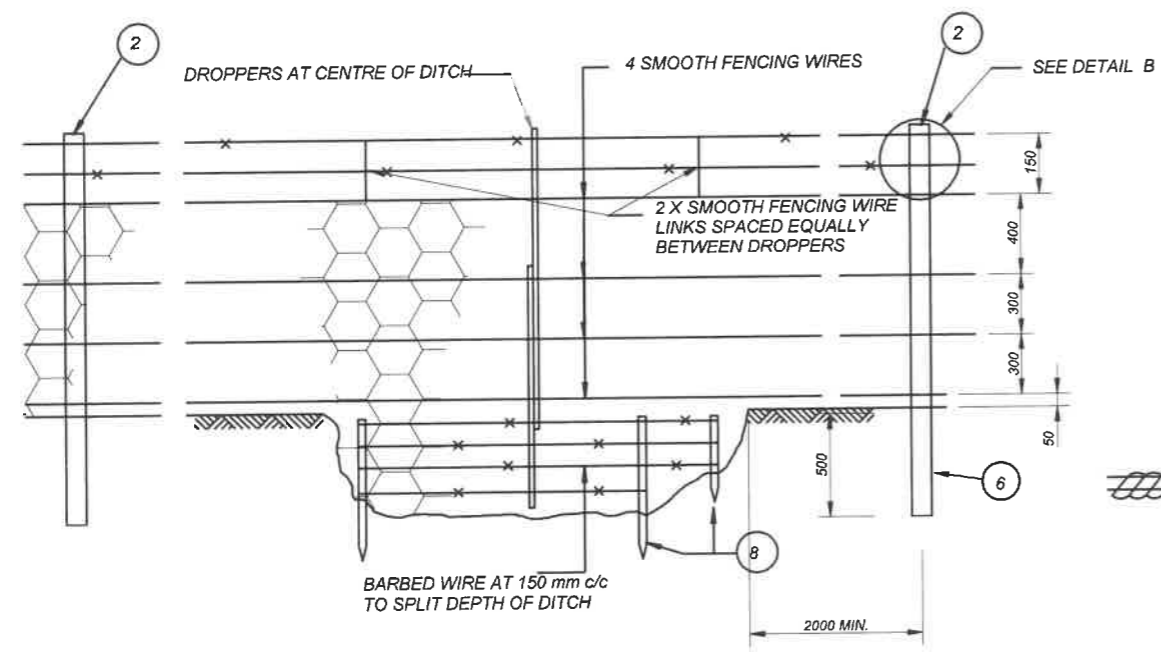
CORNER AND STRAINING POST
 (280 m MAXIMUM SPACING IN SOFT GROUND)
 (500 m MAXIMUM SPACING IN HARD GROUND)

DROPPER
 (3,0 m c/c MAXIMUM)

STANDARD
 (15,0 m c/c MAXIMUM)

GENERAL DETAILS OF FENCING

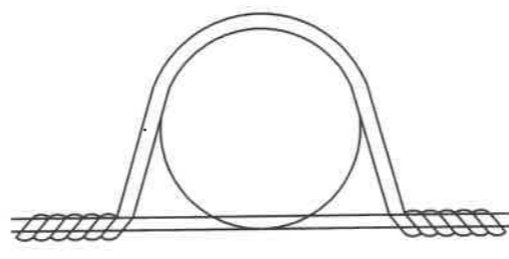
DETAIL A



STANDARD

ACROSS CHANELS AND DITCHES

STANDARD



DETAIL B

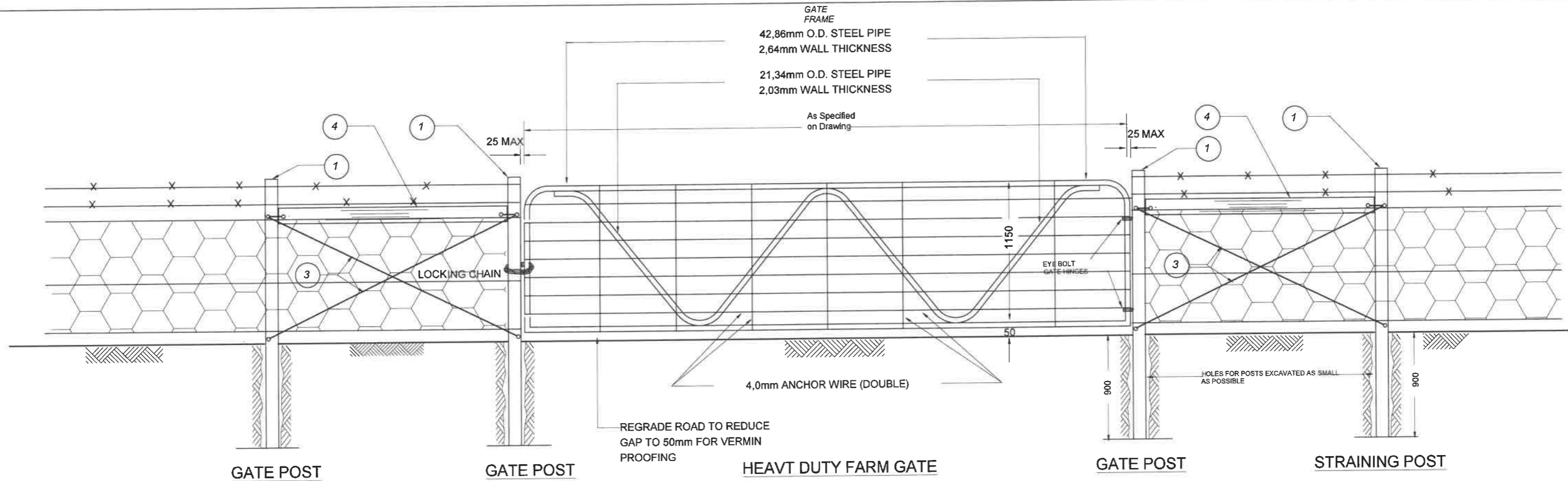
LEGEND

- 1 — 125 - 150 mm TOP DIAMETER TREATED TIMBER POLE 2100 mm LONG
- 2 — 100 - 125 mm TOP DIAMETER TREATED TIMBER POLE 1850 mm LONG OR 2,5 kg/m Y STEEL STANDARD
- 3 — DOUBLE TWISTED 4 mm ANCHOR WIRE STRAPS
- 4 — ANCHOR POST. 100 - 125 mm TOP DIAMETER TREATED TIMBER POLE APPROX. A850 mm LONG SEE DETAIL A
- 5 — CORNER AND STRAINING POSTS PLACED IN WELL COMPACTED IN-SITO MATERIAL
- 6 — LINE POSTS AT 3m SPACING, PLACED IN WELL COMPACTED SOIL.
- 7 — NATURAL GROUND LEVEL AT FOOT OF FENCE TO BE PACKED WITH STONE
- 8 — STAKES (DROPPER PROFILE) OF SUITABLE LENGTH DRIVEN INTO SIDES & BED OF TRENCH AT APPROVED SPACINGS AND TIED TO AT LEAST TWO FENCE WIRES. STAKES TO BE ALIGNED WITH & TIED TO DROPPERS WITH WIRE WHERE REQUIRED.
- 9 — LINE POSTS AT 3m SPACING, PLACED IN WELL COMPACTED SOIL.
- 10 — 75 mm HEXAGONAL WIRE NETTING OF 1,8 mm DIAMETER GALVANIZED MILD STEEL 1200 mm WIDE

NGL — NATURAL GROUND LEVEL

NOTES: 1. NOTCHES REQUIRED FOR CORNER POSTS, STRAINING POSTS, STANDARDS AND DROPPERS
 2. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE PROJECT PARTICULAR SPECIFICATIONS FOR FENCES

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					NTS	SCMM-03/33/03
					A3 ORIGINAL	PLAN NO.
						SHEET 6 OF 7
		OCTOBER 2024 (DATE APPROVED)	ENGINEERING SERVICES PRIVATE BAG X015 DOHNE ADI STUTTERHEIM 4930	FENCE		



FARM GATES

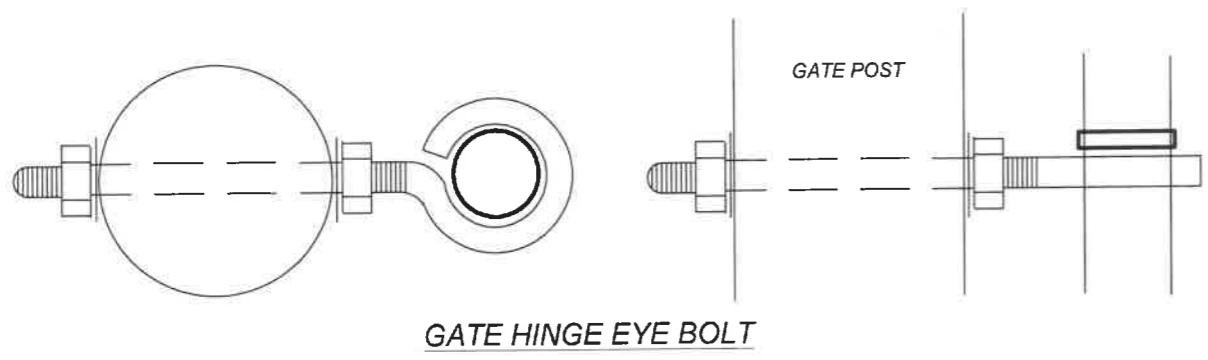
LEGEND

- ① 125 - 150mm TOP DIAMETER x 2100 mm TREATED TIMBER POST
CORNER, STRAINING, GATE AND ANCHOR POSTS
- ③ 4mm x 4 STRANDS TWISTED SOFT GALVANISED BINDING WIRE
- ④ 100 - 125mm TOP DIAMETER x 1800 mm TREATED TIMBER POST
BRACES IN BOX ANCHORS

NGL NATURAL GROUND LEVEL

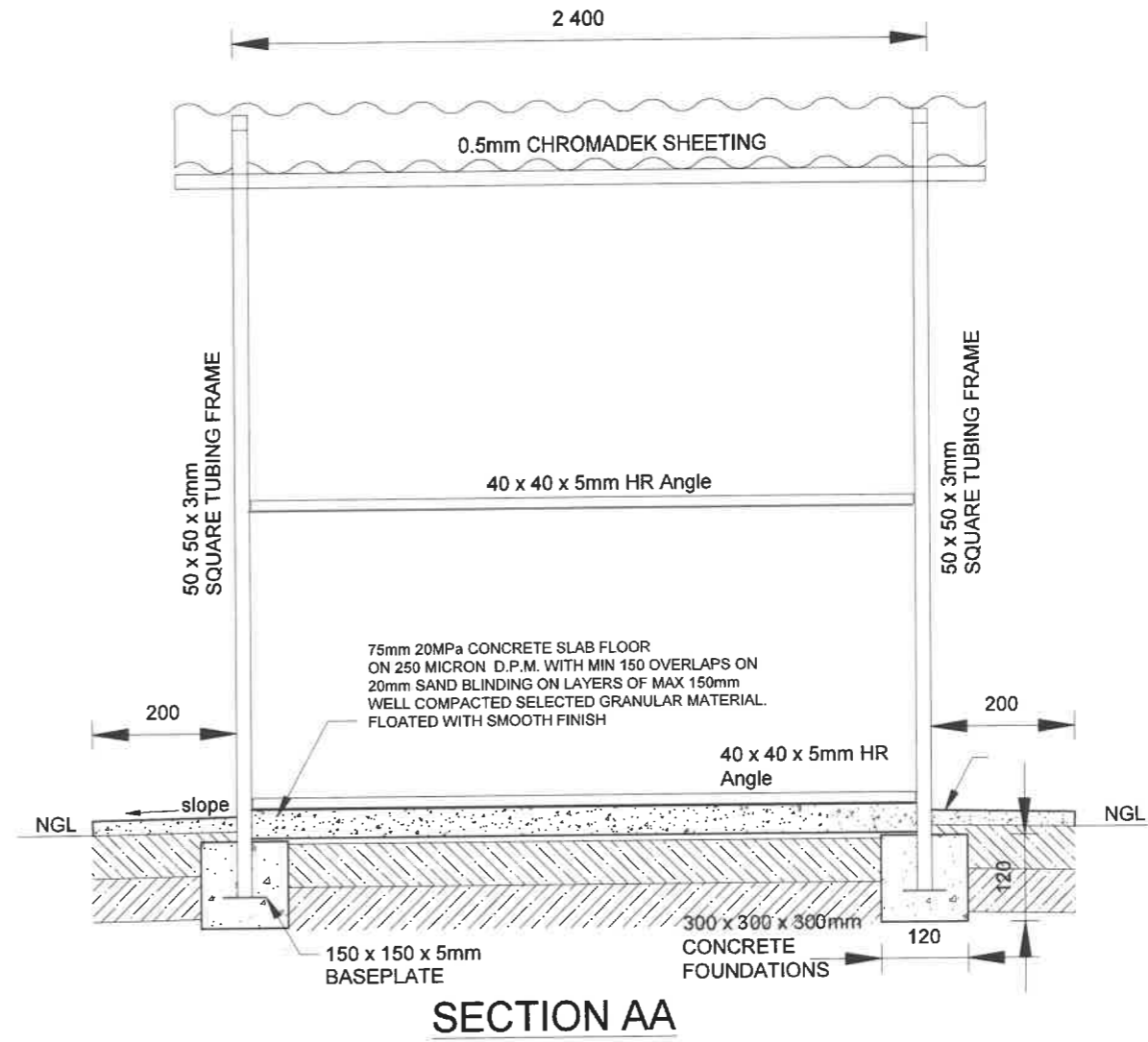
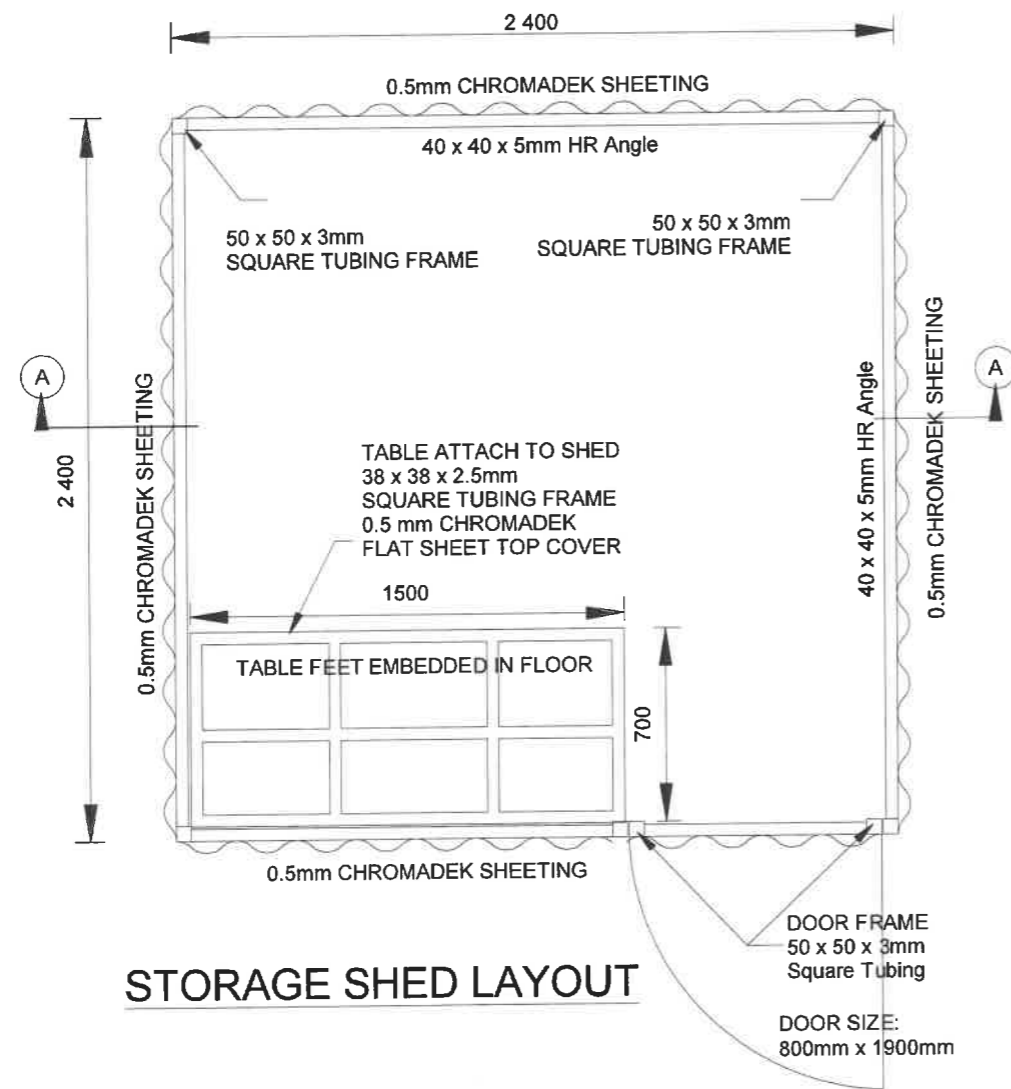
NOTES: 1. 40 mm STAPLES REQUIRED FOR CORNER POSTS and STRAINING POSTS

2. THIS DRAWING TO BE READ IN CONJUNCTION WITH THE PROJECT PARTICULAR SPECIFICATIONS FOR FENCES

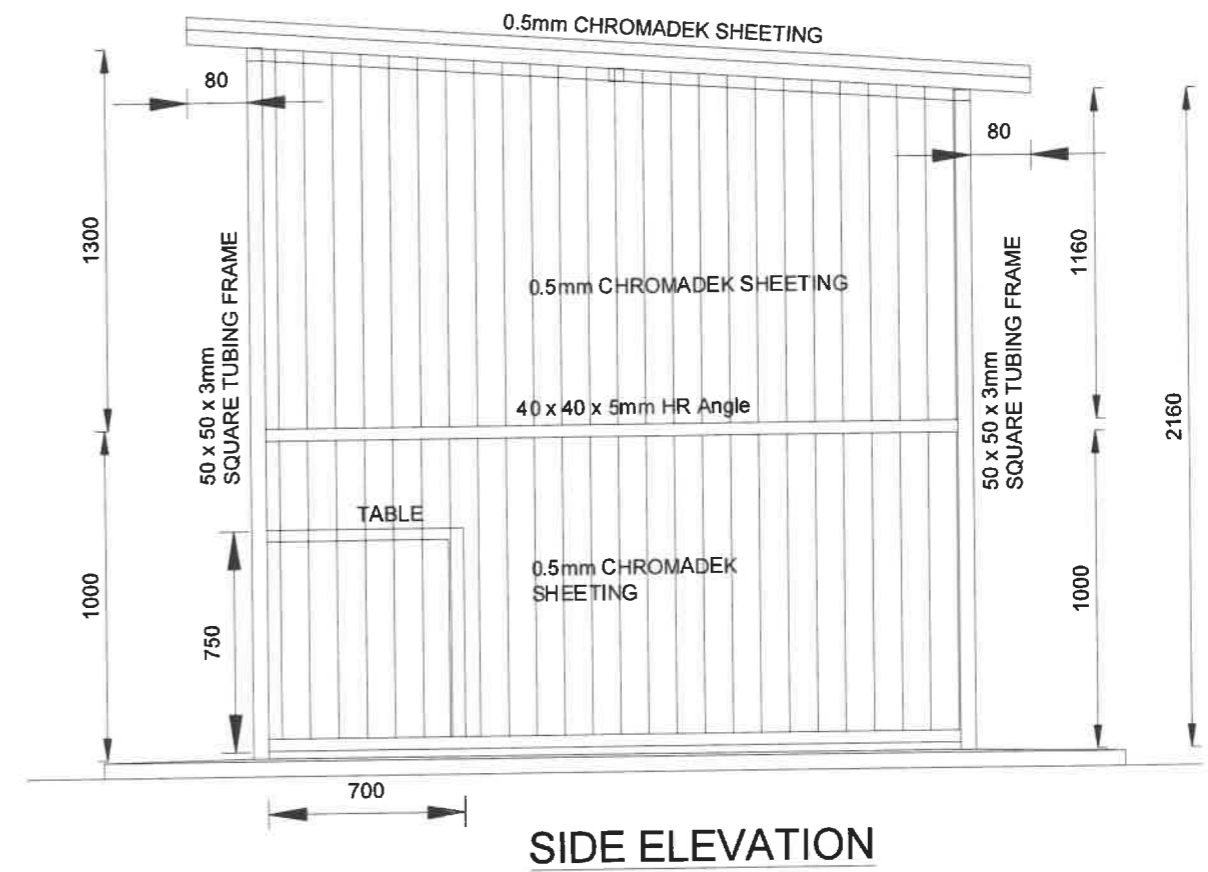
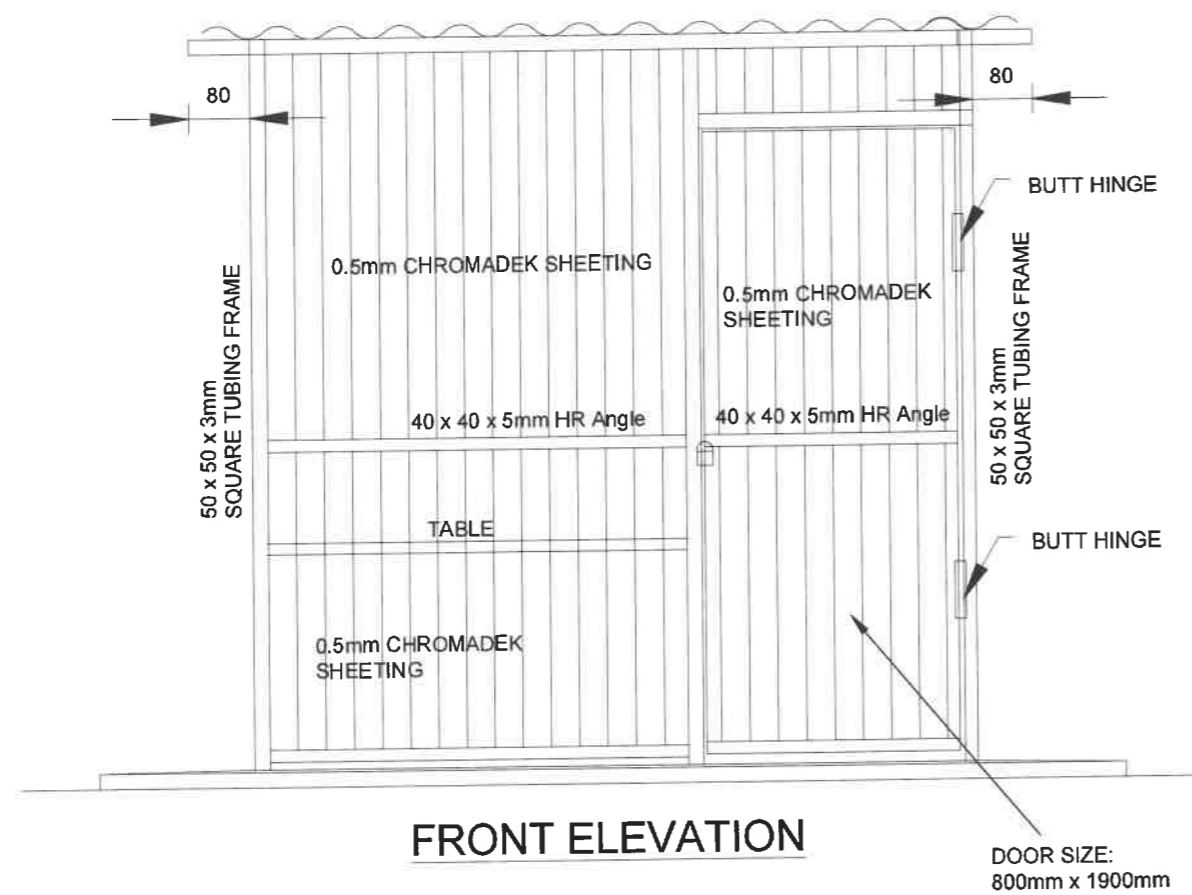


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		OCTOBER 2024 (DATE APPROVED)	ENGINEERING SERVICES PRIVATE BAG X015 DOHNE ADI STUTTERHEIM 4930	FENCE	A3 ORIGINAL	PLAN NO. SHEET 7 OF 7

34 DIP TANK STORAGE SHED



NO.	SPECIAL NOTES:	S KONDLO (CHIEF ENGINEER)	DEPARTMENT OF RURAL DEVELOPMENT AND AGRARIAN REFORM PROVINCE OF THE EASTERN CAPE	DIP TANK STORAGE SHED	SCALE NTS	INDEX NO. SCMM-03/34/01
		OCTOBER 2024 (DATE APPROVED)	ENGINEERING SERVICES PRIVATE BAG X015 DOHNE ADI STUTTERHEIM 4930	PLAN LAY OUT	A3 ORIGINAL	PLAN NO. SHEET 1 OF 2



NO.	SPECIAL NOTES:	S KONDLO (CHIEF ENGINEER)	DEPARTMENT OF RURAL DEVELOPMENT AND AGRARIAN REFORM PROVINCE OF THE EASTERN CAPE	DIP TANK STORAGE SHED	SCALE	INDEX NO.			
					NTS	SCMM-03/34/02			
					OCTOBER 2024 (DATE APPROVED)	ENGINEERING SERVICES PRIVATE BAG X015 DOHNE ADI STUTTERHEIM 4930	ELEVATIONS	A3 ORIGINAL	PLAN NO. SHEET 2 OF 2