



**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)

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

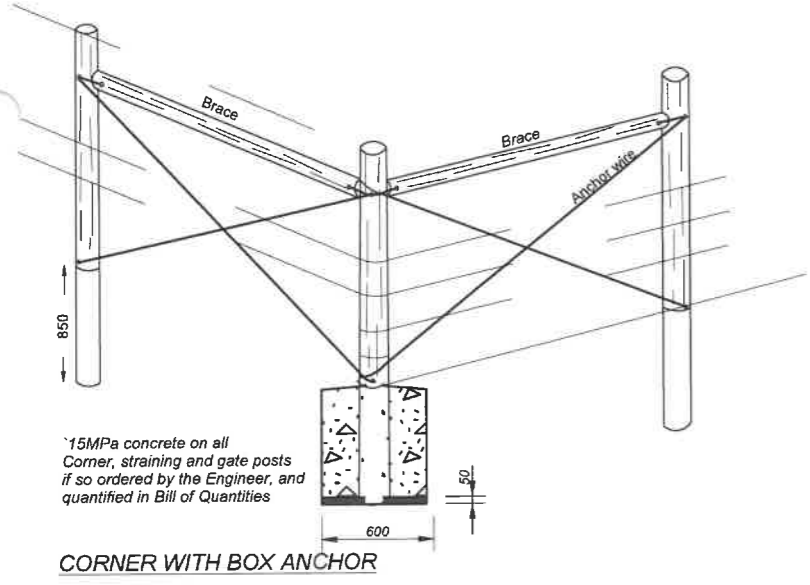
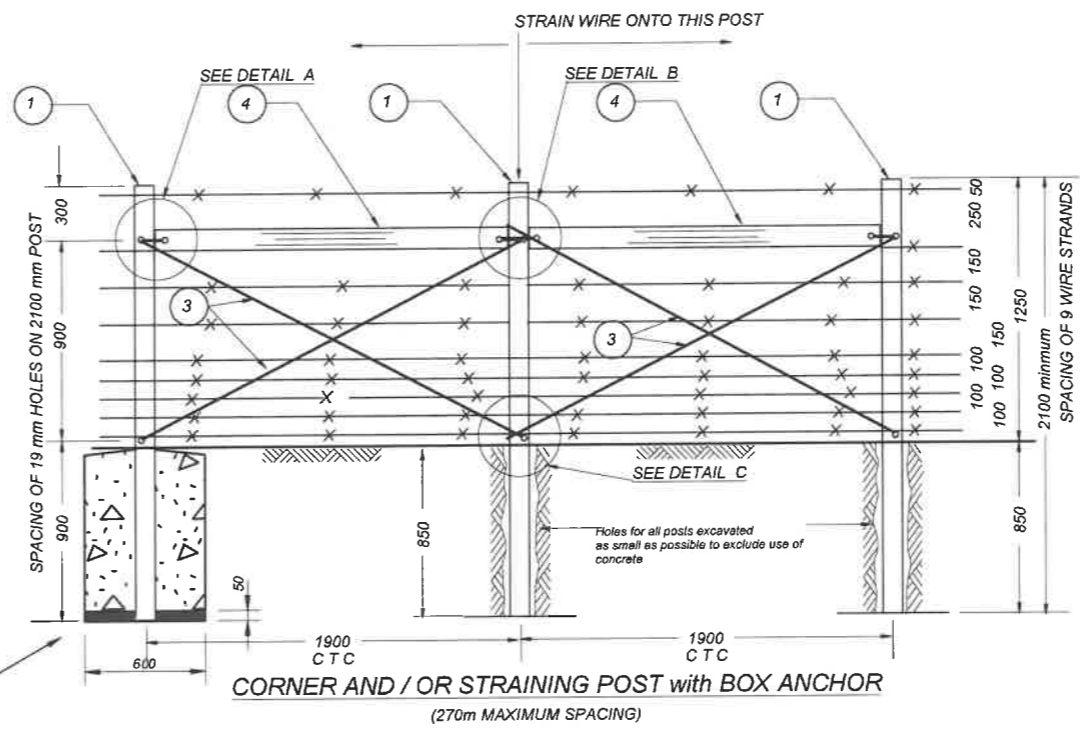
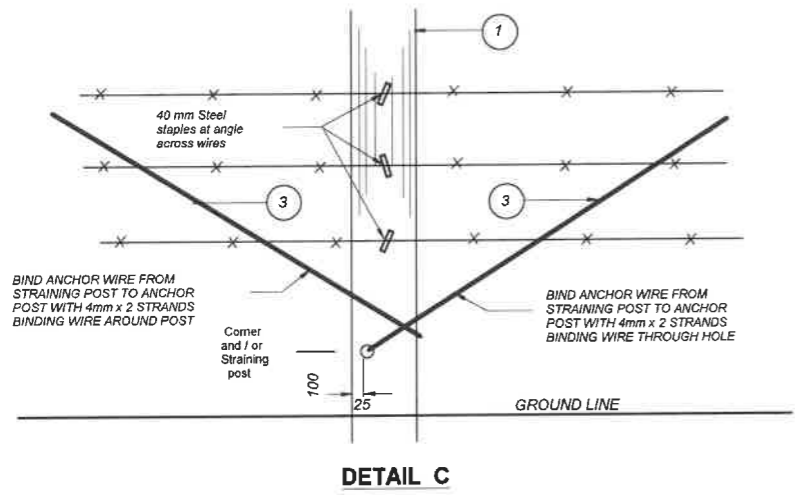
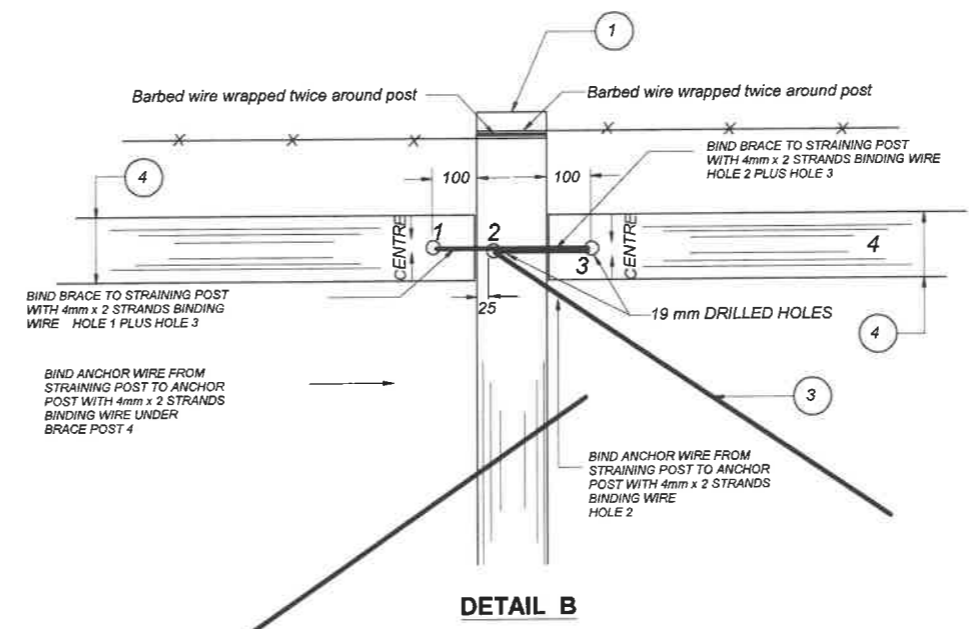
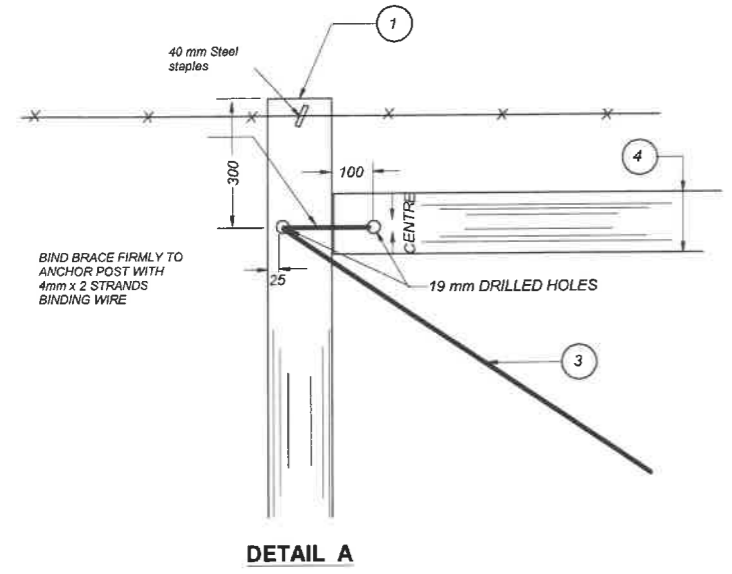
100 - 125mm TOP DIAMETER x 1800 mm TREATED TIMBER POST BRACES IN BOX ANCHORS

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)

OCTOBER 2024
(DATE APPROVED)

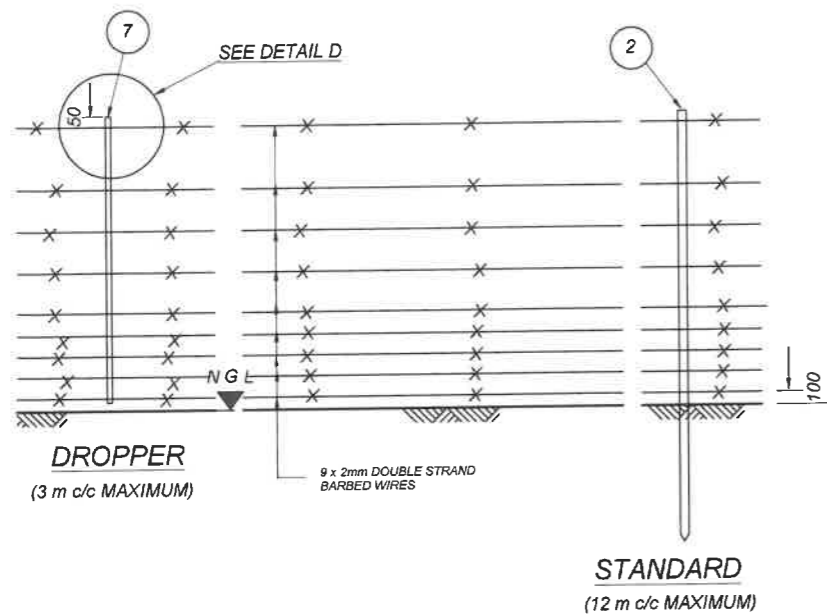
**DEPARTMENT OF RURAL DEVELOPMENT AND AGRARIAN REFORM
PROVINCE OF THE EASTERN CAPE**

ENGINEERING SERVICES
PRIVATE BAG X015
DOHNE ADI
STUTTERHEIM
4930

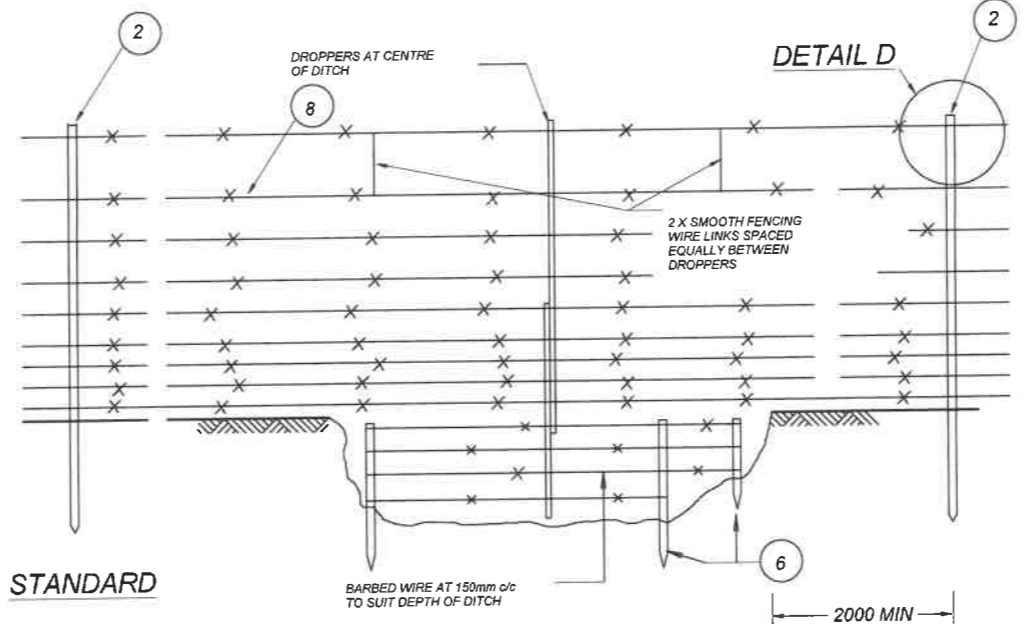
STANDARD STOCK PROOF FENCE

1,2m HIGH - 9 STRAND FENCE

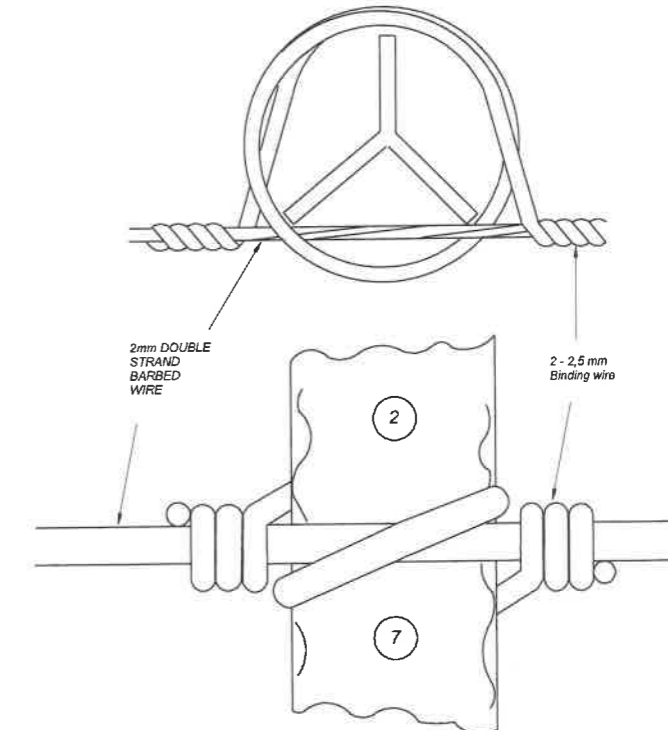
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NTS	SCMM-03/19/01
SCALE	INDEX NO.
A3 ORIGINAL	PLAN NO. SHEET 1 OF 6



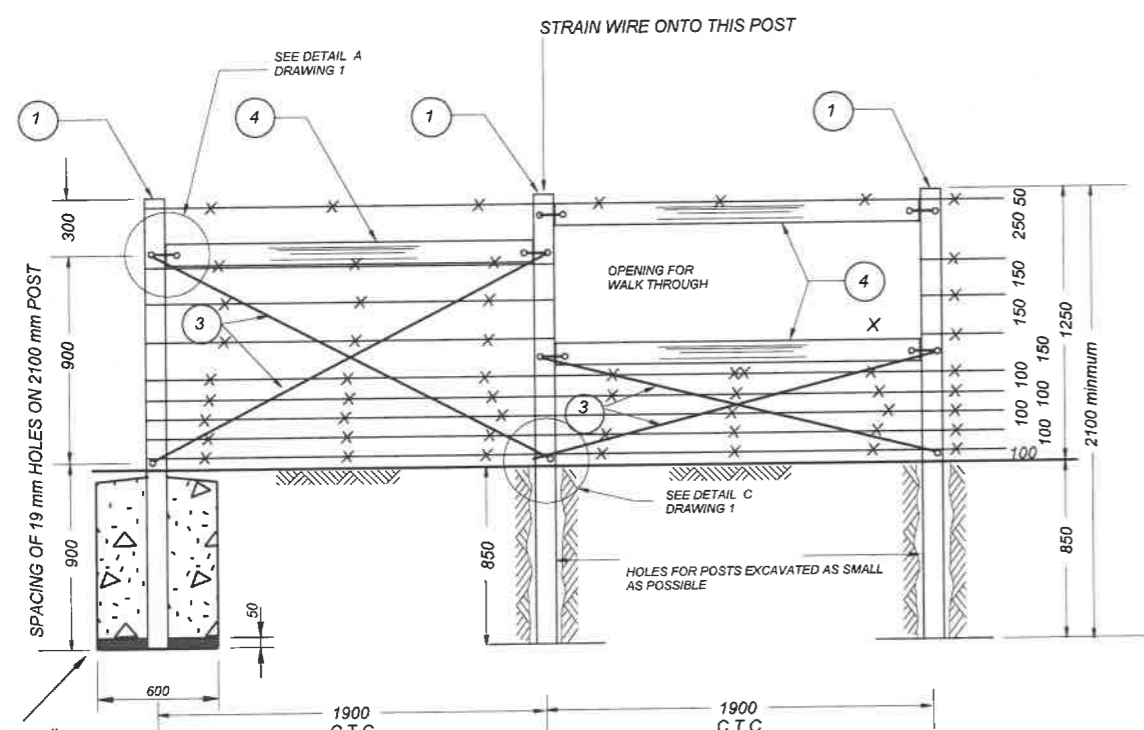
STOCK PROOF FENCE



CROSSING CANALS AND TRENCHES



DETAIL D



STRAINING POST with BOX ANCHOR WALKTHROUGH

(270m MAXIMUM SPACING)

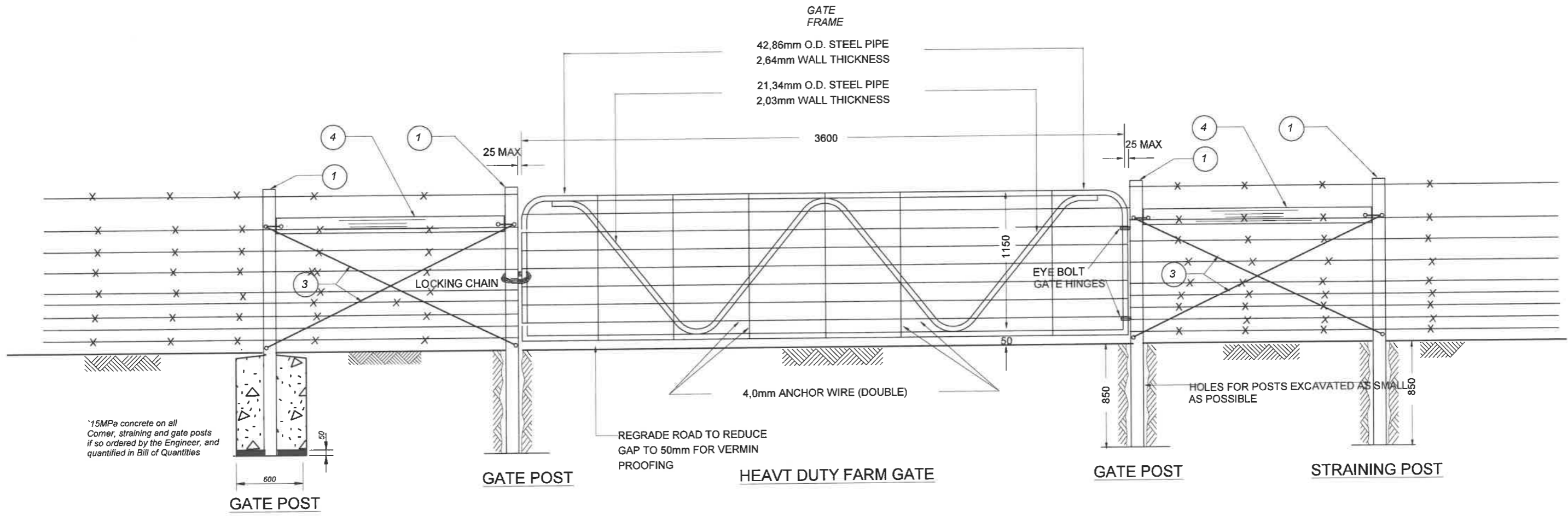
LEGEND

- 1 — 125 - 150mm TOP DIAMETER x 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

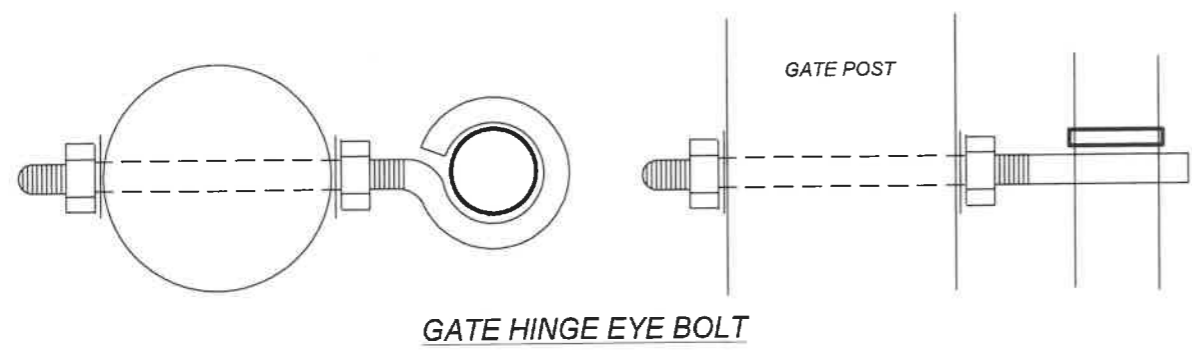
NOTES: 1. 40 mm STAPLES REQUIRED FOR CORNER POSTS and STRAINING POSTS
 2. THIS DRAWING TO BE READ IN CONJUNCTION WITH THE PROJECT PARTICULAR SPECIFICATIONS FOR FENCES

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



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

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

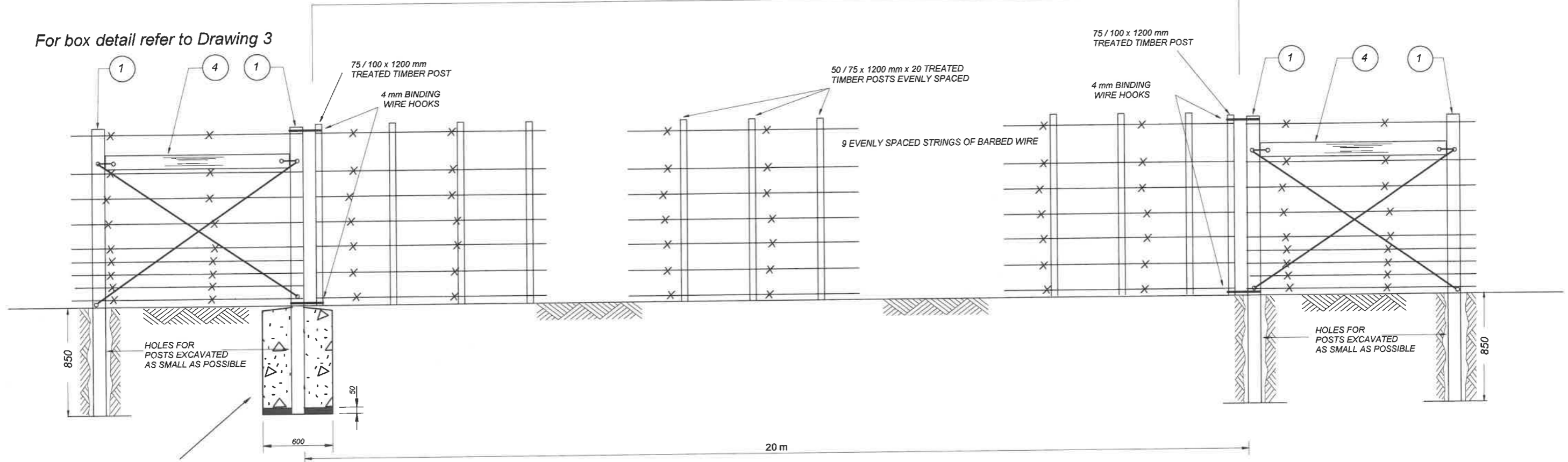
NOTES: 1. 40 mm STAPLES REQUIRED FOR CORNER POSTS and STRAINING POSTS

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

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				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

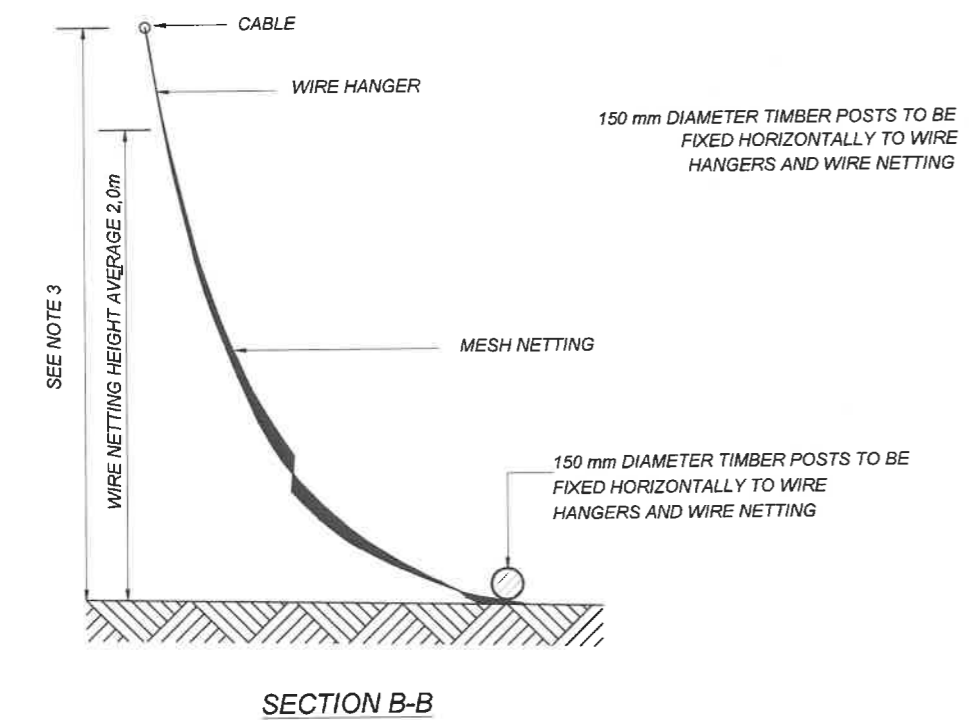
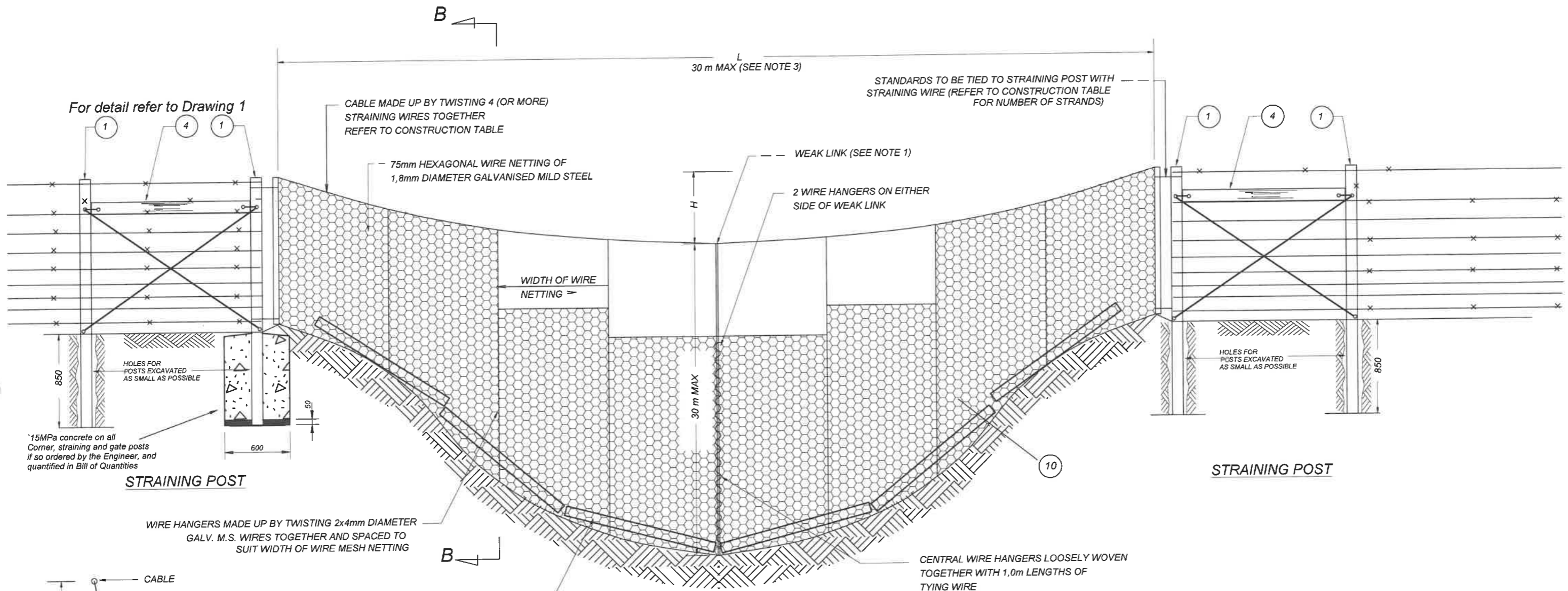
For box detail refer to Drawing 3



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 NTS	INDEX NO. SCMM-03/19/04
				1,2m HIGH - 9 STRAND FENCE	A3 ORIGINAL	PLAN NO. SHEET 4 OF 6
		OCTOBER 2024 (DATE APPROVED)	ENGINEERING SERVICES PRIVATE BAG X015 DOHNE ADI STUTTERHEIM 4930			



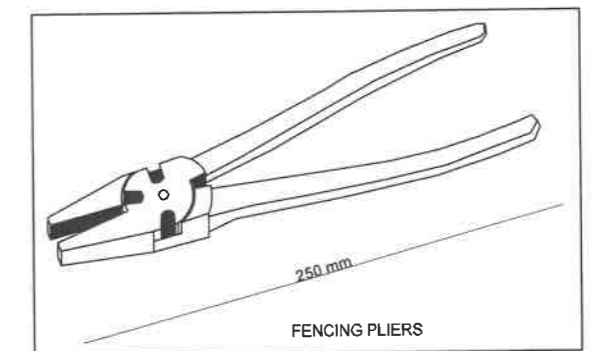
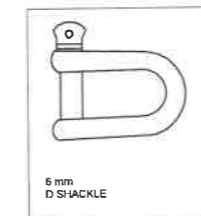
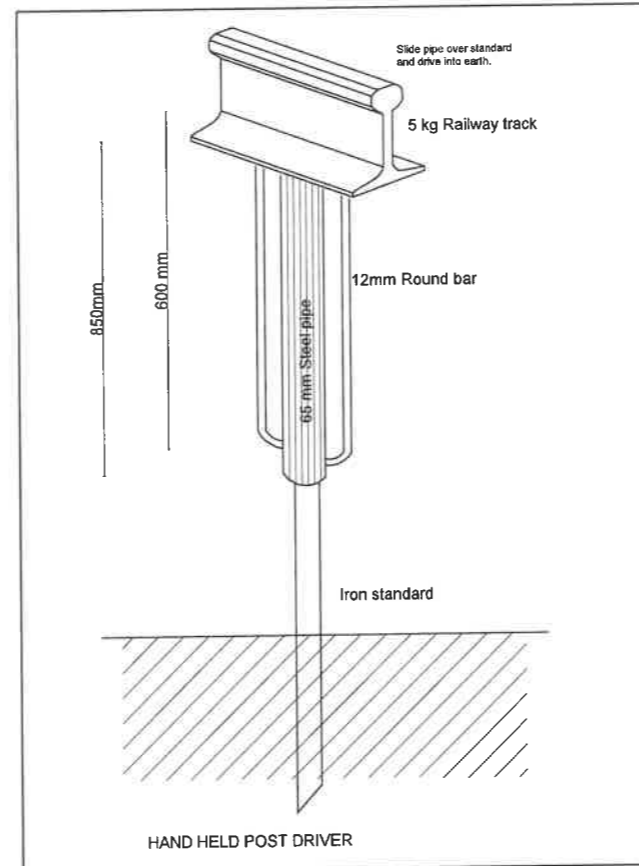
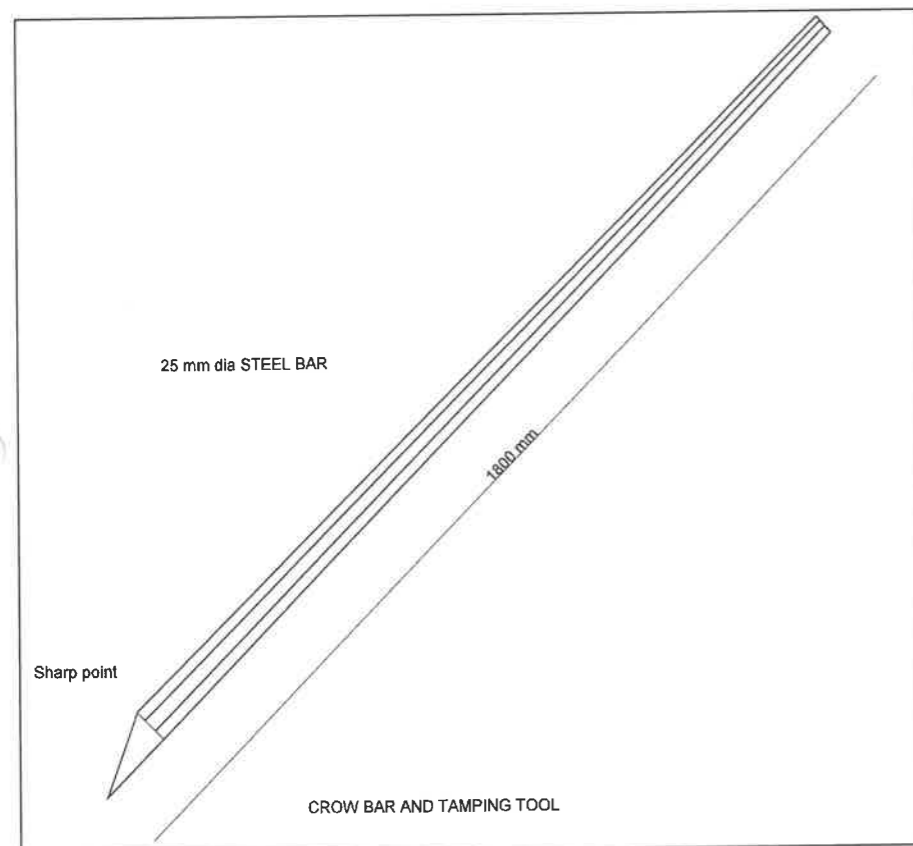
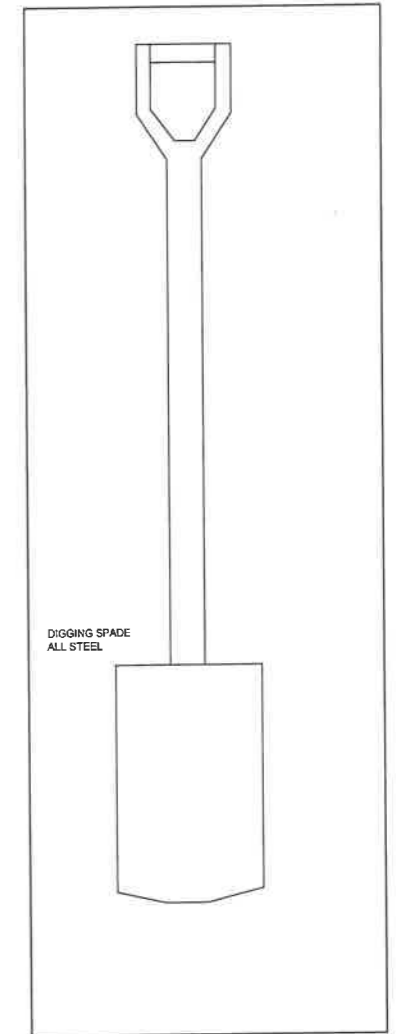
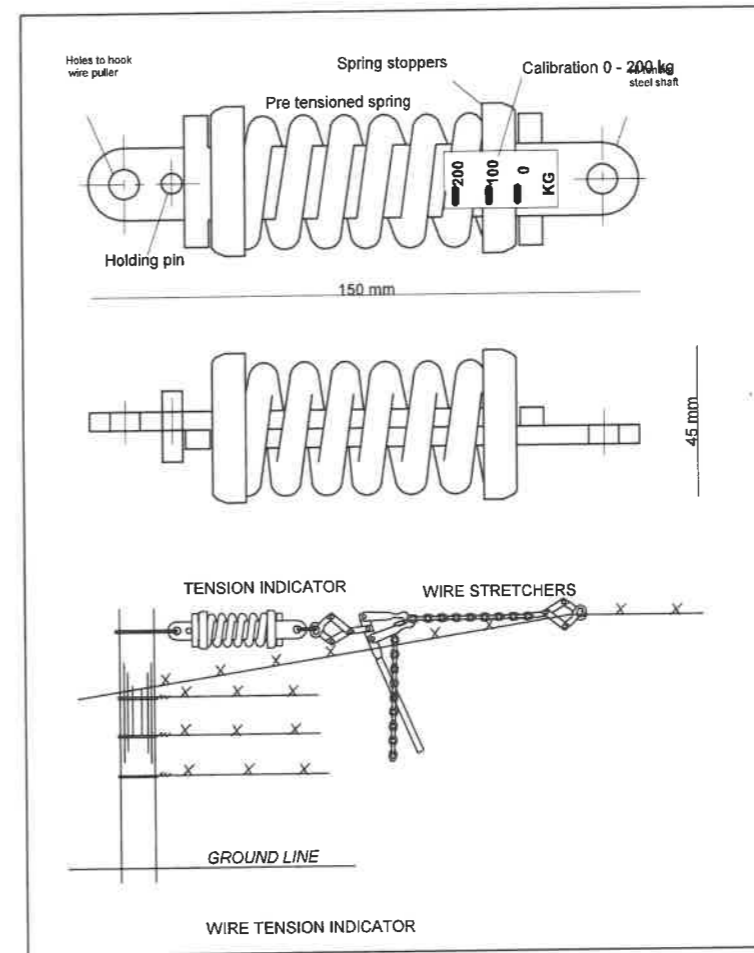
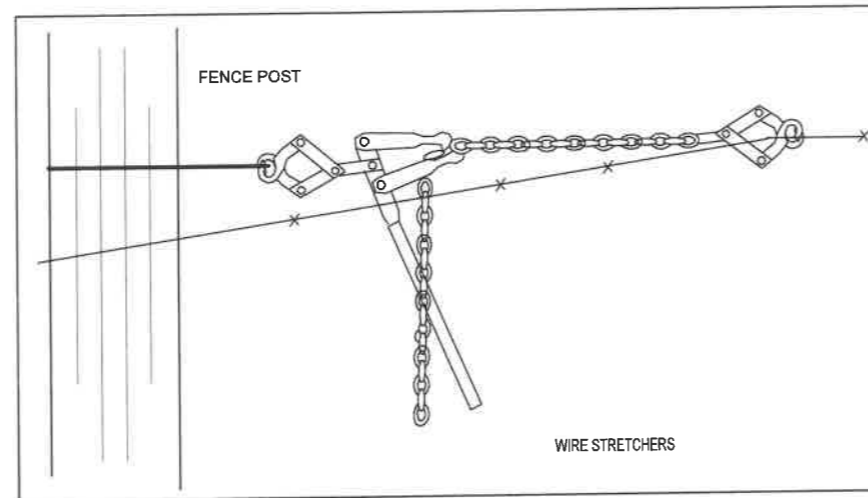
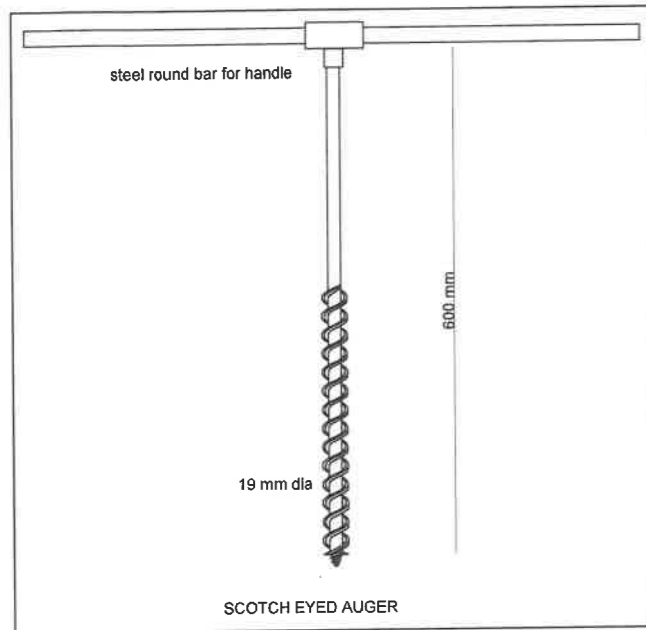
ELEVATION

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		

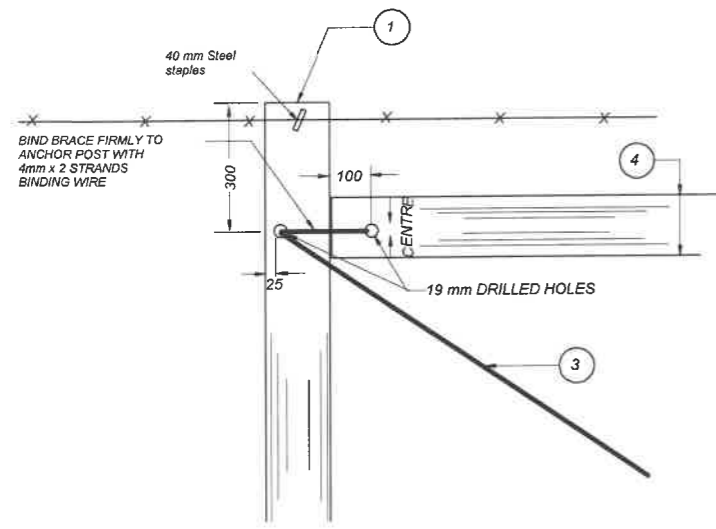
- NOTES :**
1. WEAK LINK IN CABLE MAY BE POSITIONED EITHER AT END STANDARDS OR IN CENTRE OF CABLE AS SHOWN. FORM BY LOOPING A STRAINING WIRE THROUGH WIRE HANGERS. NUMBER OF LOOPS ARE TABULATED IN CONSTRUCTION TABLE.
 2. WHEN HEIGHT OF CABLE IS LESS THAN 2.0m, WIRE HANGERS MAY BE OMITTED AND NETTING LAPPED HORIZONTALLY.
 3. IF LENGTH OF WIRE NETTING EXCEEDS 30m FENCING TO BE DESIGNED BY THE ENGINEER.
- 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 NTS	INDEX NO. SCMM-03/19/05
					1,2m HIGH - 9 STRAND FENCE	A3 ORIGINAL	PLAN NO. SHEET 5 OF 6
		OCTOBER 2024 (DATE APPROVED)					

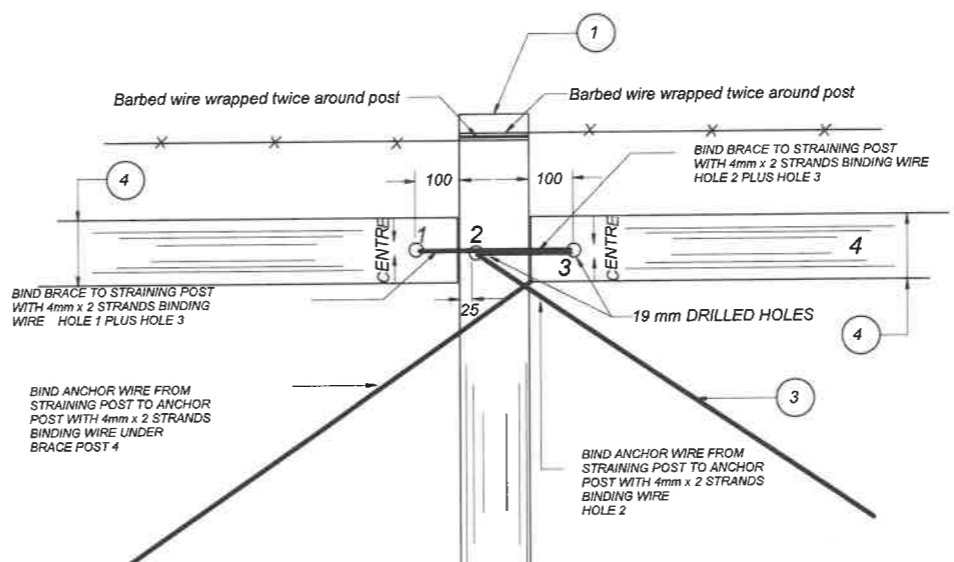


NO.	SPECIAL NOTES:	S KONDLO (CHIEF ENGINEER)	DEPARTMENT OF RURAL DEVELOPMENT AND AGRARIAN REFORM PROVINCE OF THE EASTERN CAPE	ENGINEERING SERVICES PRIVATE BAG X015 DOHNE ADI STUTTERHEIM 4930	STANDARD STOCK PROOF FENCE	SCALE	INDEX NO.
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		OCTOBER 2024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

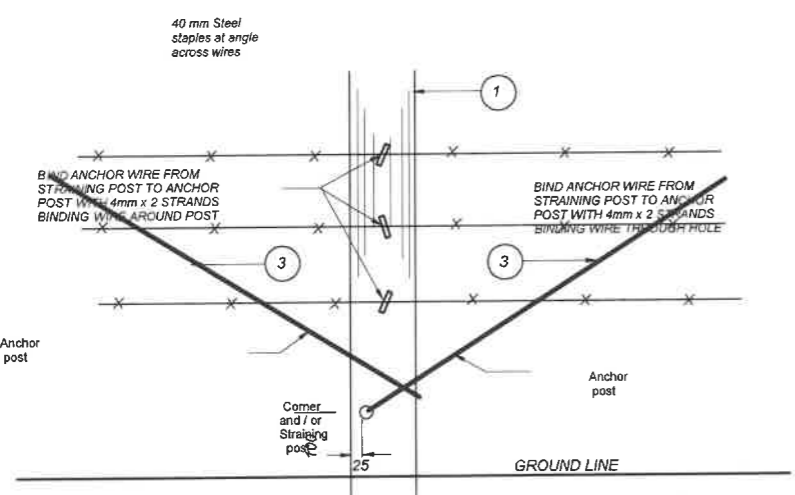
19.2 STANDARD STOCK PROOF FENCE (1,4m)



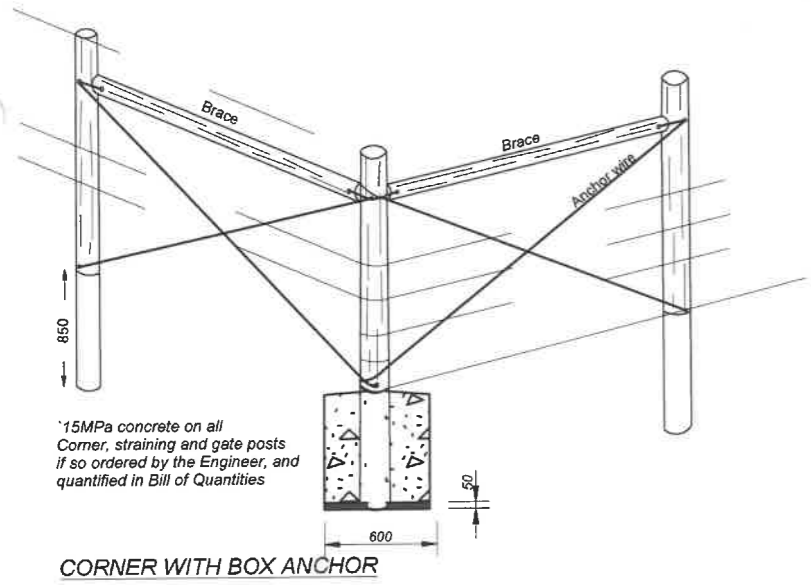
DETAIL A



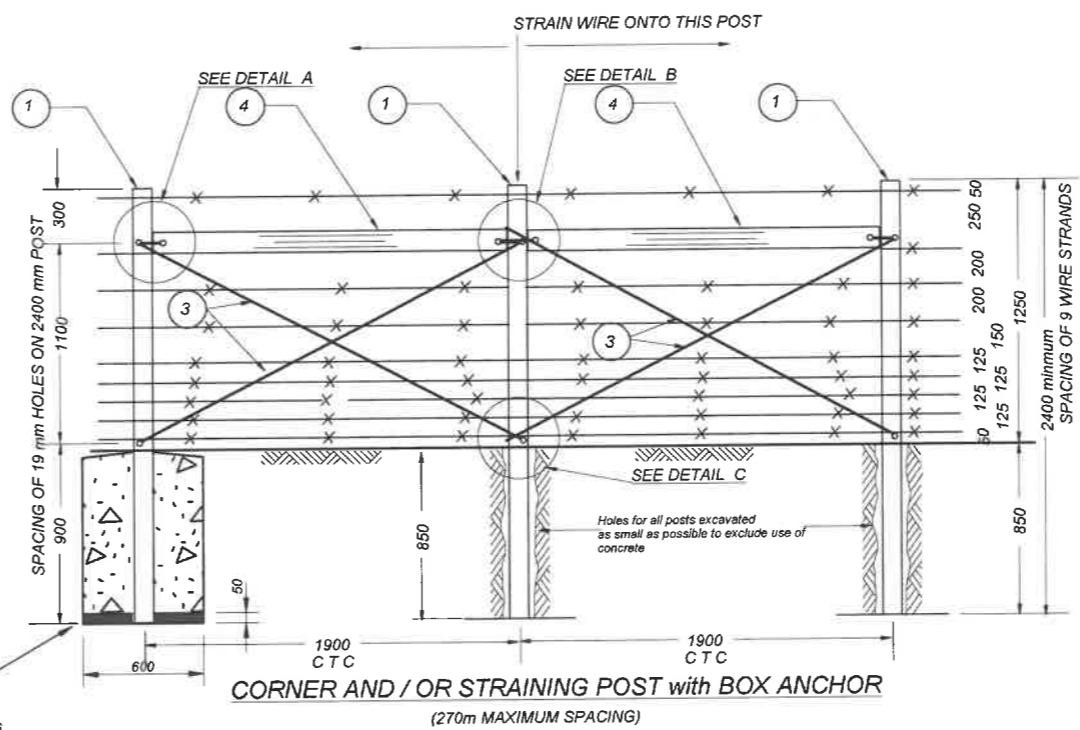
DETAIL B



DETAIL C



CORNER WITH BOX ANCHOR



CORNER AND / OR STRAINING POST WITH BOX ANCHOR
(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 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)

OCTOBER 2024
(DATE APPROVED)

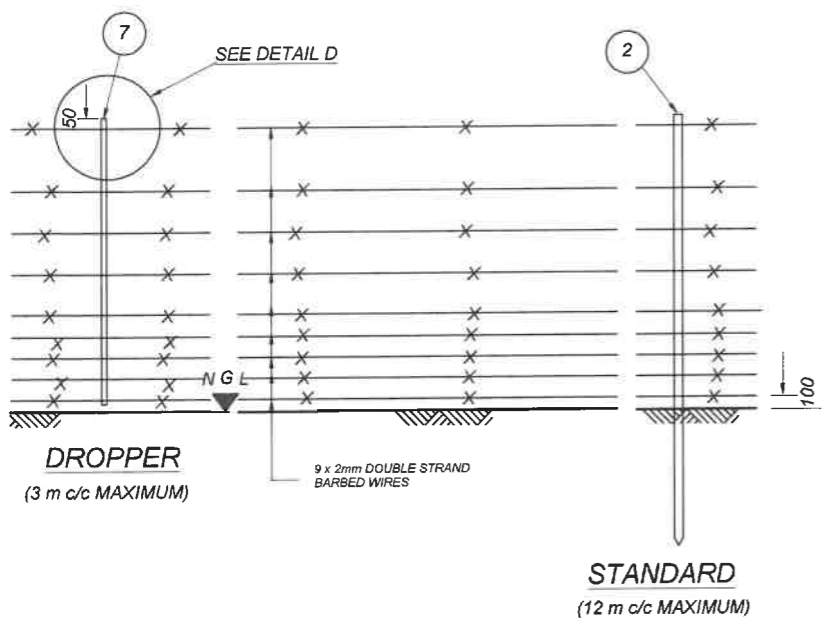
**DEPARTMENT OF RURAL DEVELOPMENT AND AGRARIAN REFORM
PROVINCE OF THE EASTERN CAPE**

ENGINEERING SERVICES
PRIVATE BAG X015
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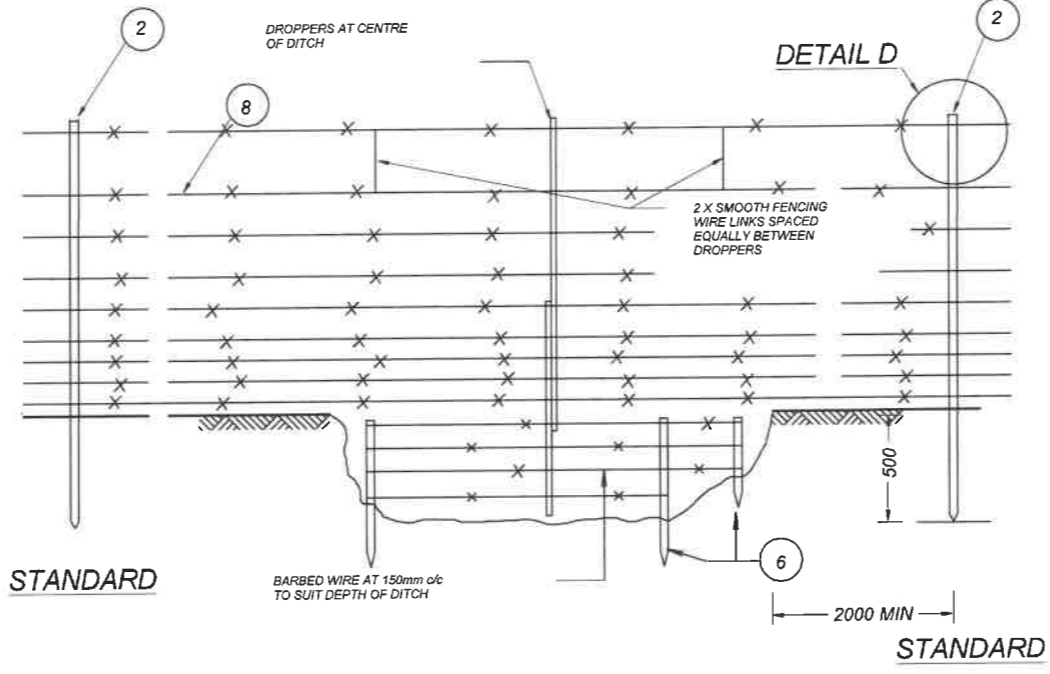
STANDARD STOCK PROOF FENCE

1,4m HIGH - 9 STRAND FENCE

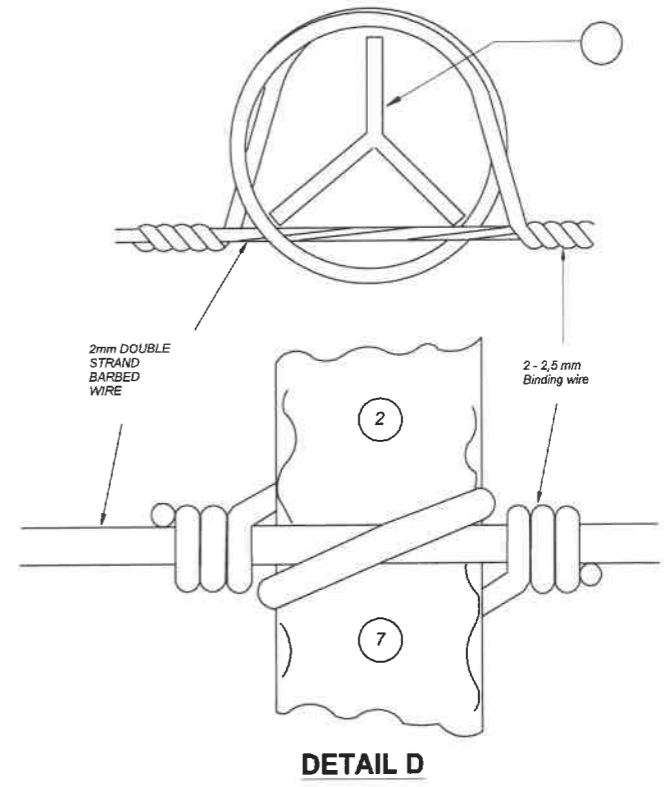
SCALE	INDEX NO.
NTS	SCMM-03/19/01
SCALE	INDEX NO.
A3 ORIGINAL	PLAN NO. SHEET 1 OF 6



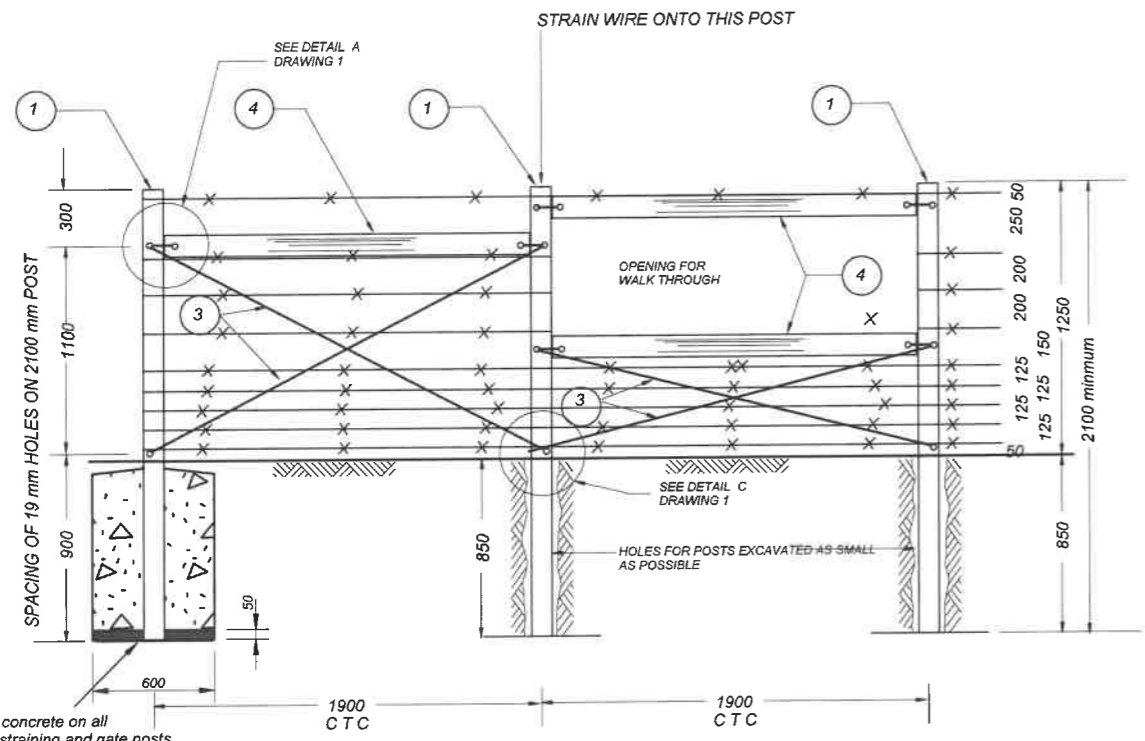
STOCK PROOF FENCE



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.
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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
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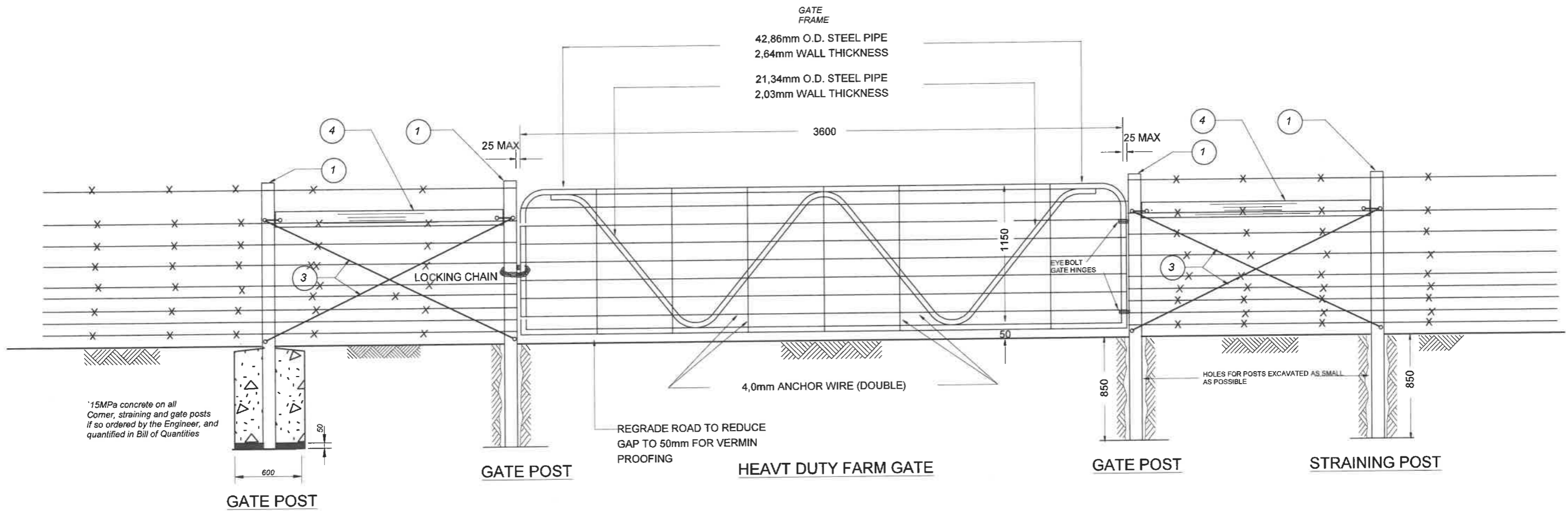
**DEPARTMENT OF RURAL DEVELOPMENT AND AGRARIAN REFORM
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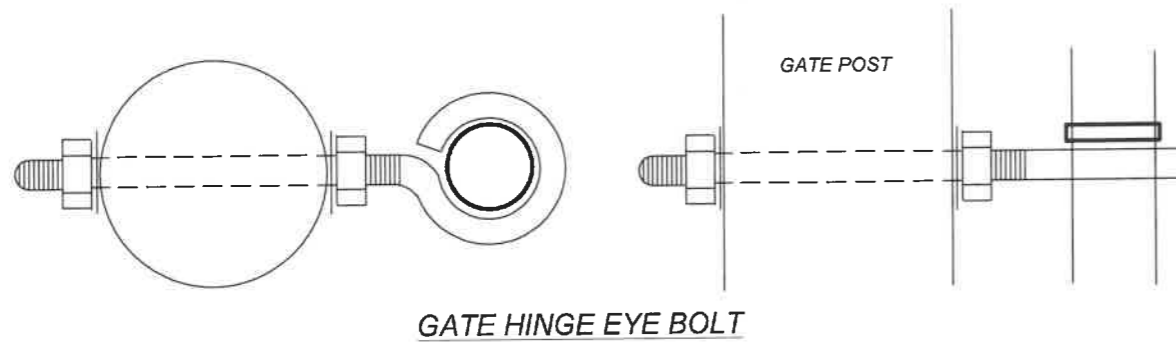
STANDARD STOCK PROOF FENCE

1,4m HIGH - 9 STRAND FENCE

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



FARM GATES



LEGEND

- 1 125 - 150mm TOP DIAMETER x 2400 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

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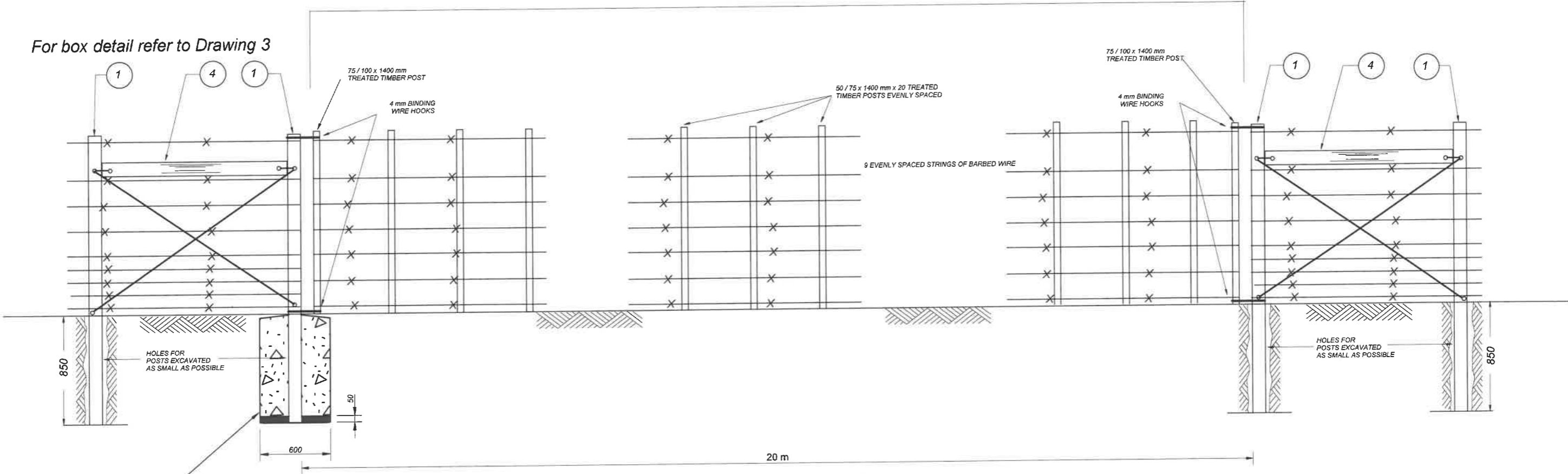
ENGINEERING SERVICES
PRIVATE BAG X015
DOHNE ADI
STUTTERHEIM
4930

STANDARD STOCK PROOF FENCE

1,4m HIGH - 9 STRAND FENCE

SCALE	INDEX NO.
NTS	SCMM-03/19/03
A3 ORIGINAL	PLAN NO. SHEET 3 OF 6

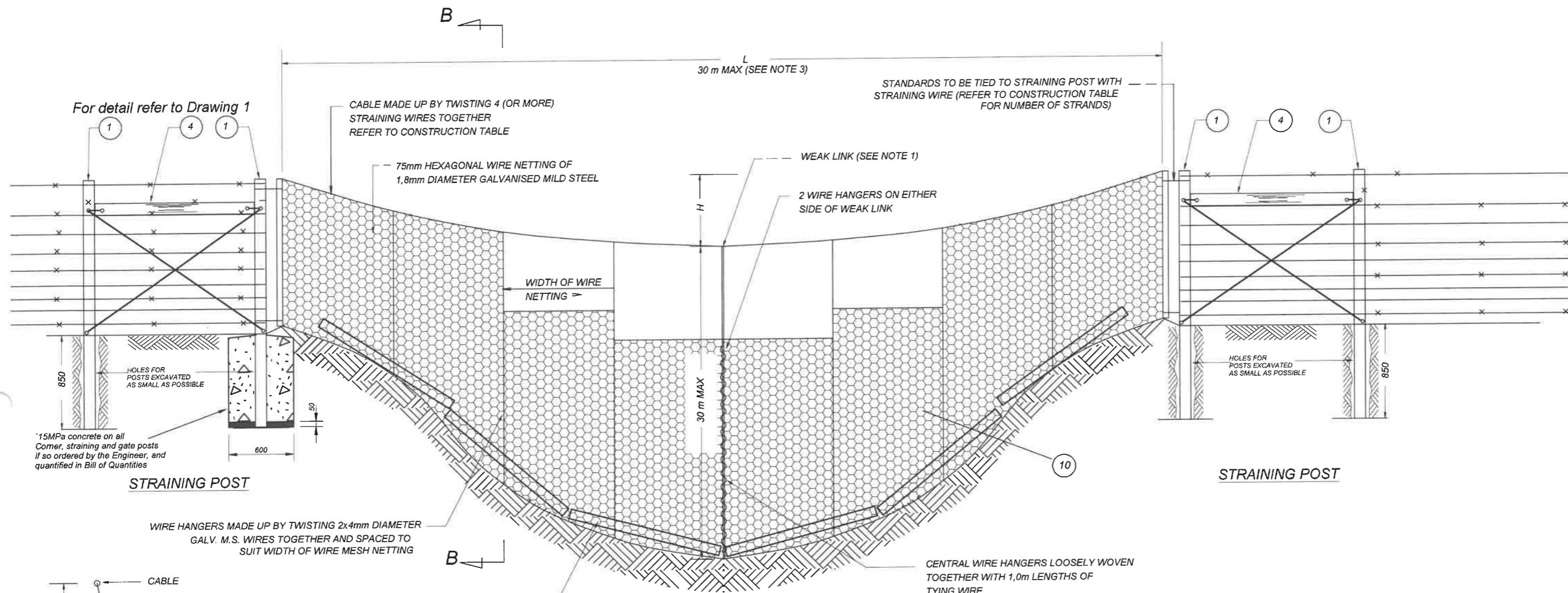
REMOVABLE FENCE



*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

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

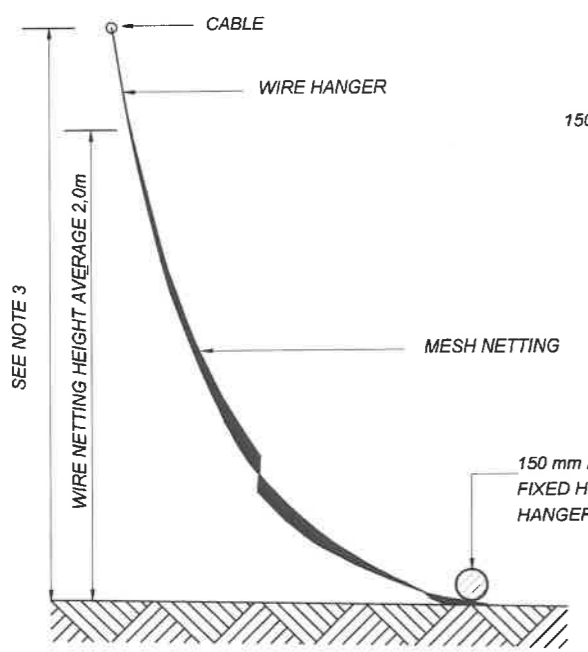


ELEVATION

CLOSING OF OPENINGS

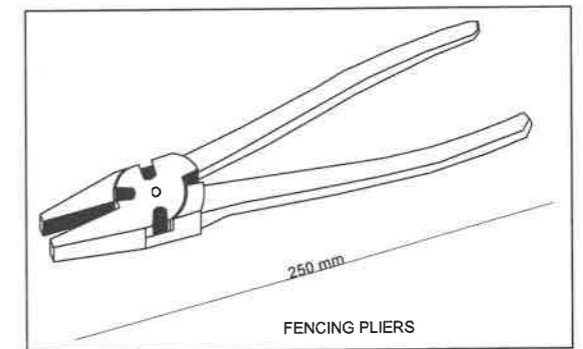
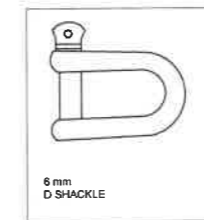
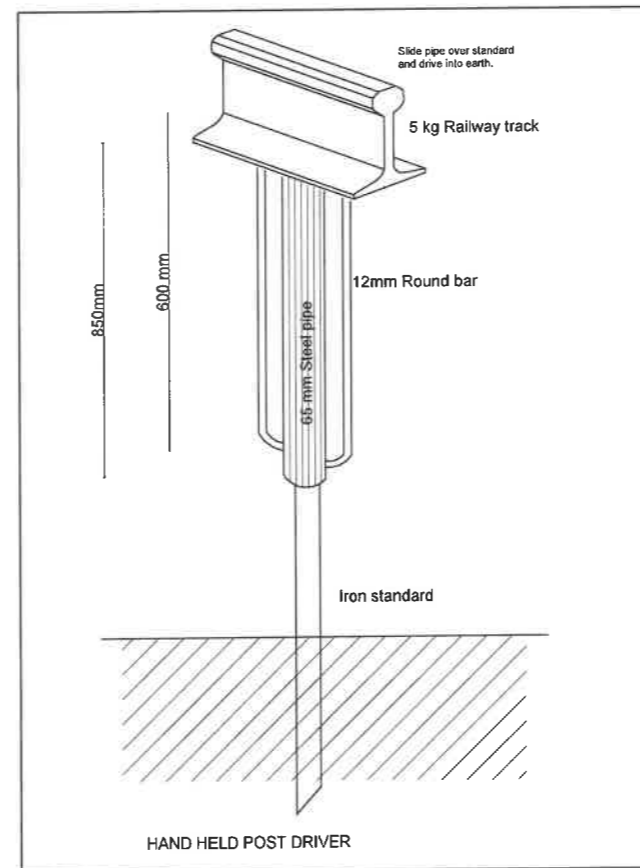
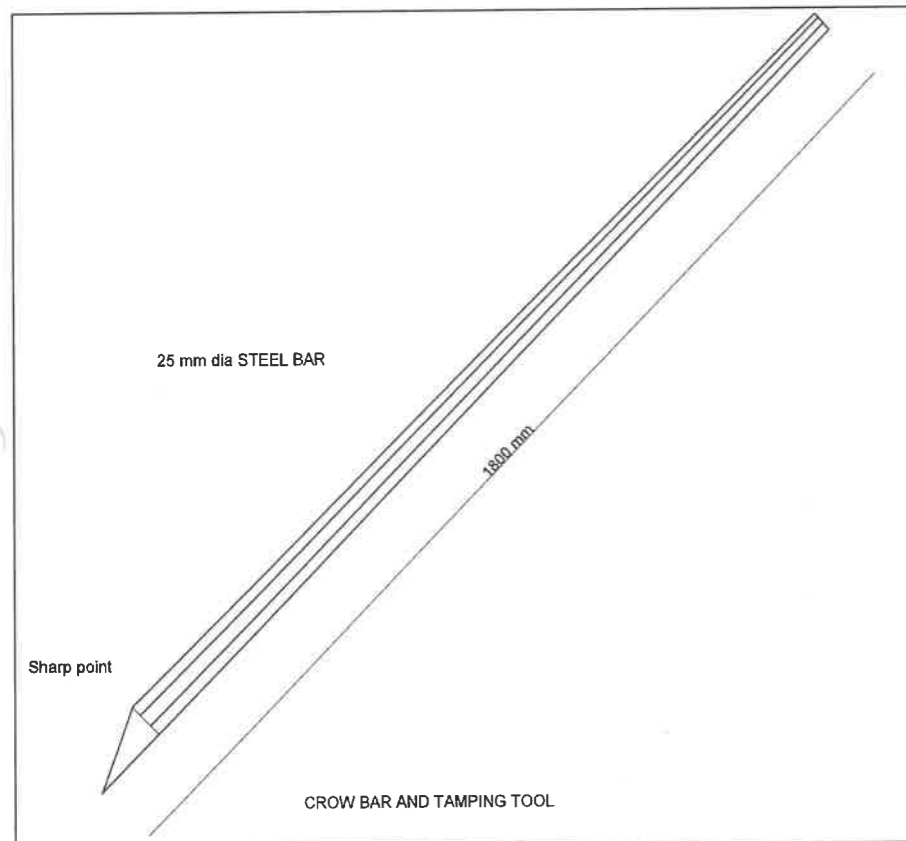
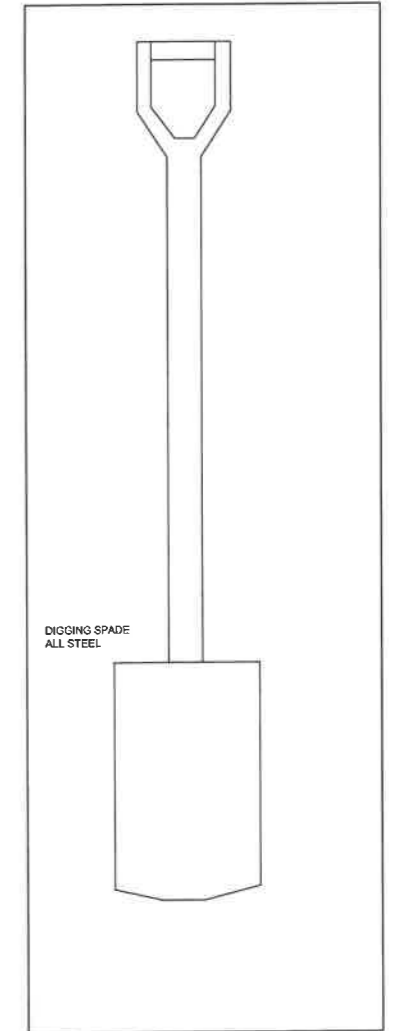
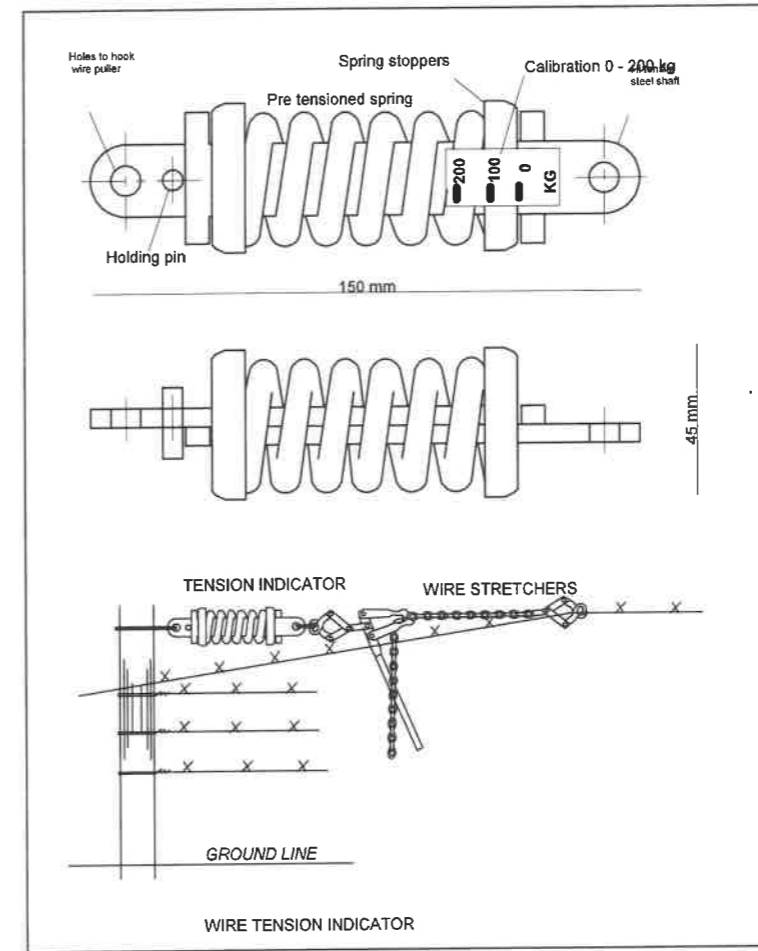
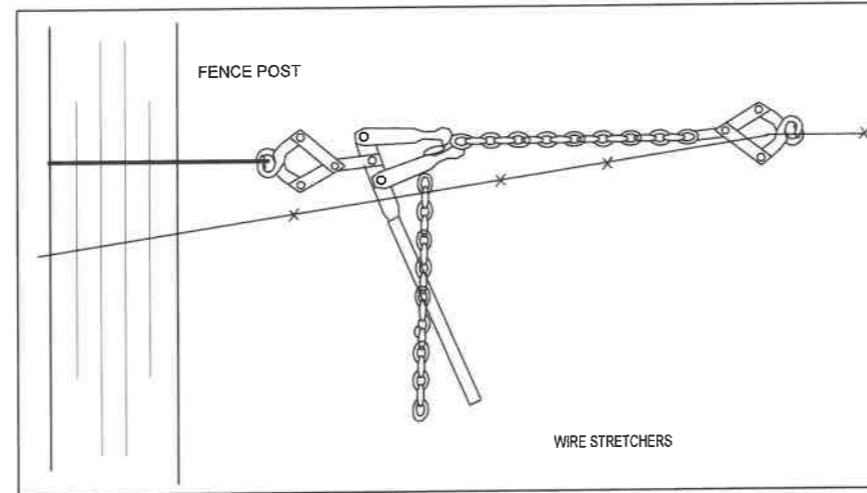
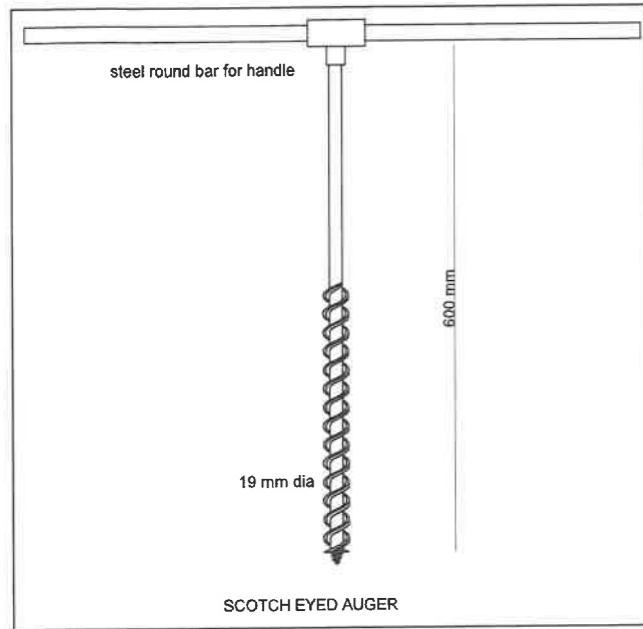
CONSTRUCTION TABLE			
SPAN L (m)	No OF STRAINING WIRES	H (m)	No OF LOOPS IN WEAK LINK
10	4	0.2	2
15	4	0.3	2
20	4	0.5	2
25	6	0.6	3
30	6	0.8	3
>30	SPECIAL DESIGN BY THE ENGINEER		

- 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.
 - 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



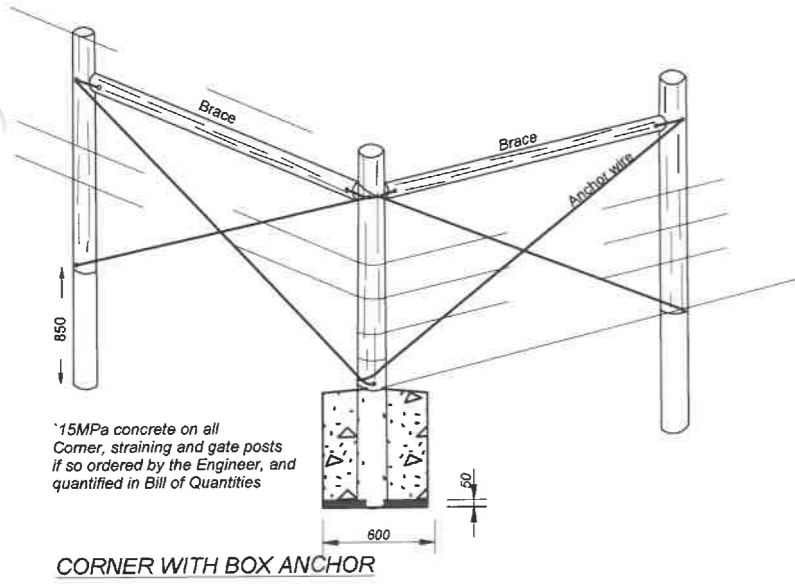
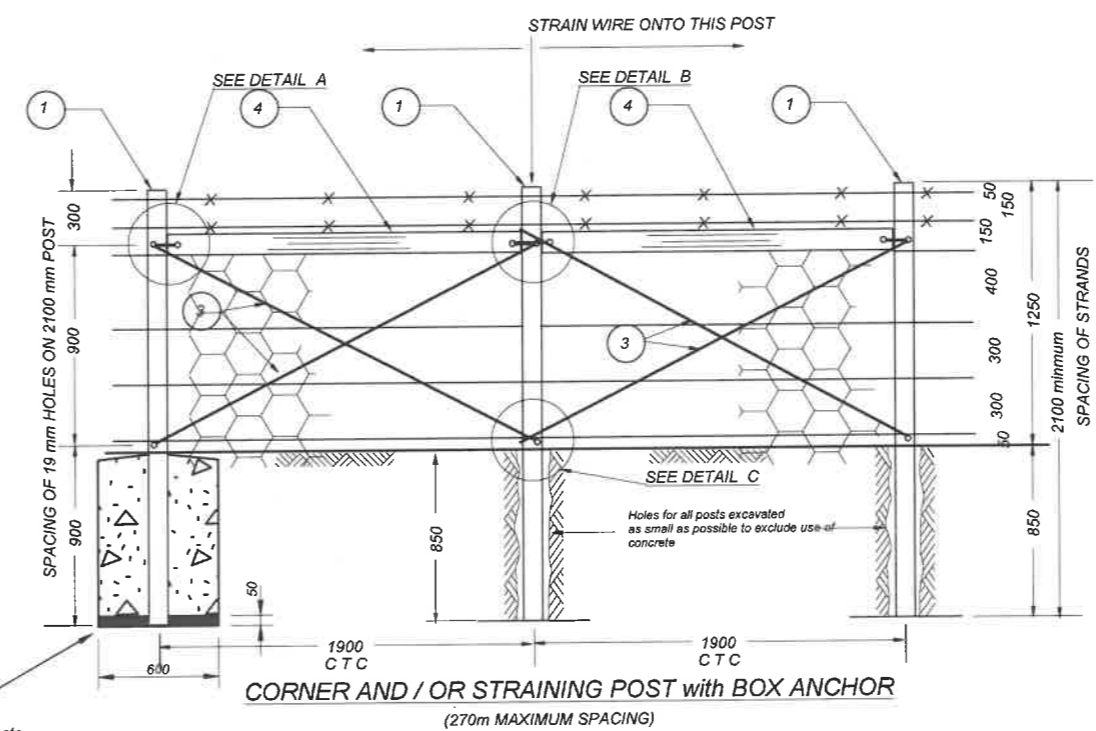
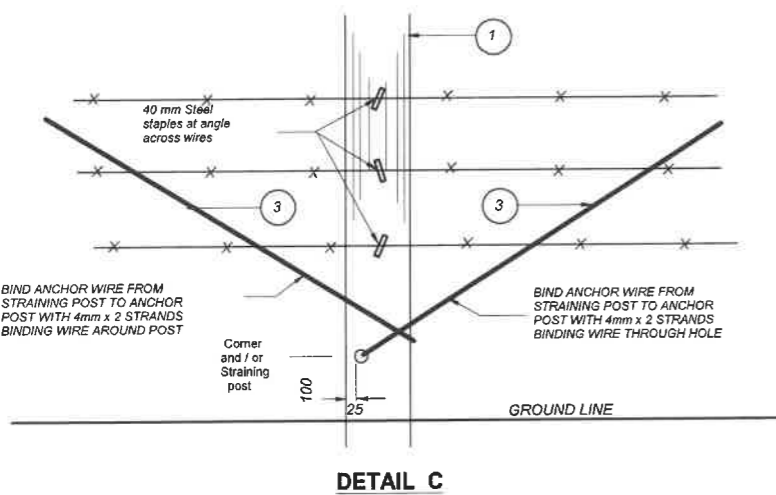
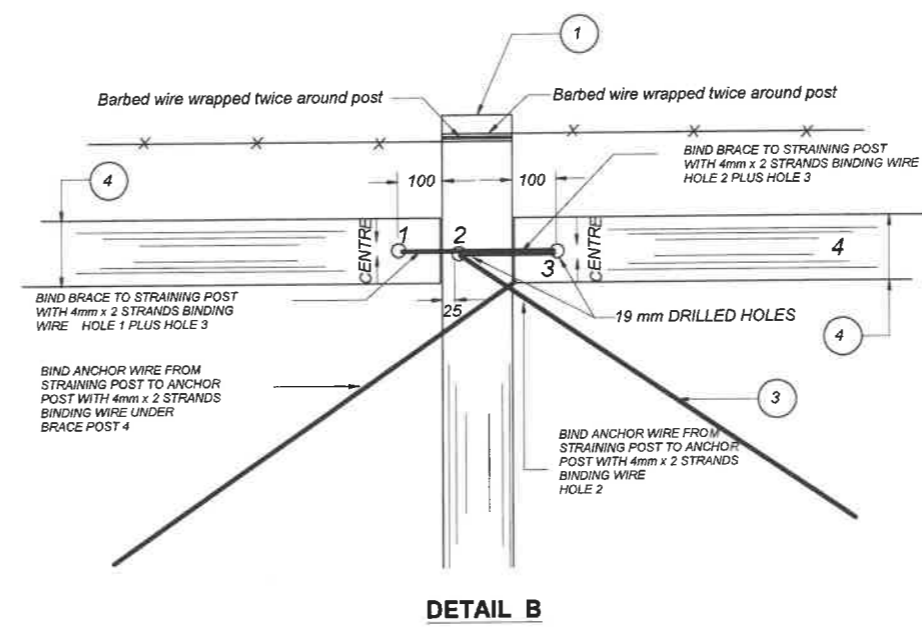
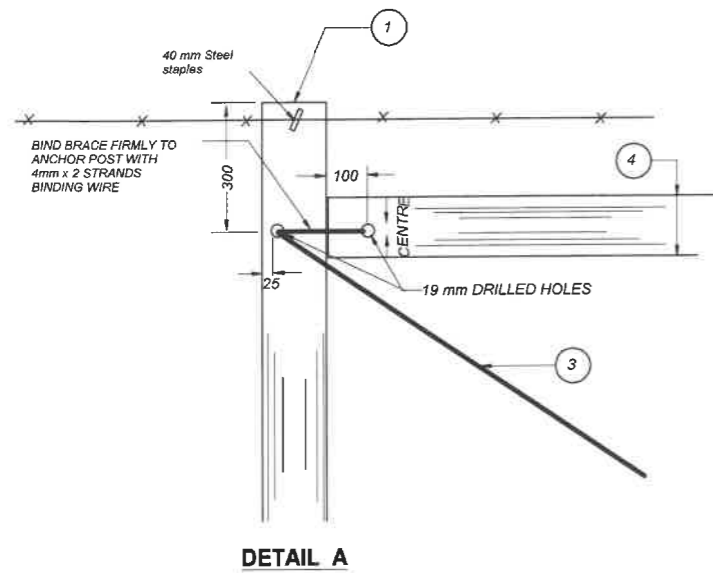
SECTION B-B

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-03/19/05	
	OCTOBER 2024 (DATE APPROVED)				ENGINEERING SERVICES PRIVATE BAG X015 DOHNE ADI STUTTERHEIM 4930	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 NTS	INDEX NO. SCMM-03/19/06
				1,4m HIGH - 9 STRAND FENCE	A3 ORIGINAL	PLAN NO. SHEET 6 OF 6
		OCTOBER 2024 (DATE APPROVED)	ENGINEERING SERVICES PRIVATE BAG X015 DOHNE ADI STUTTERHEIM 4930			

19.3 STANDARD VERMIN PROOF FENCE (1,2m)



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

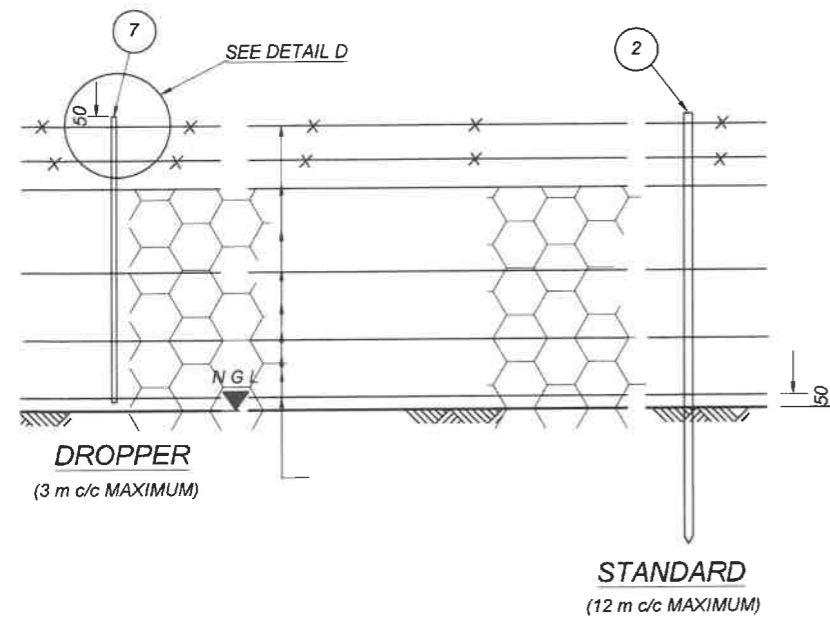
NOTES:

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

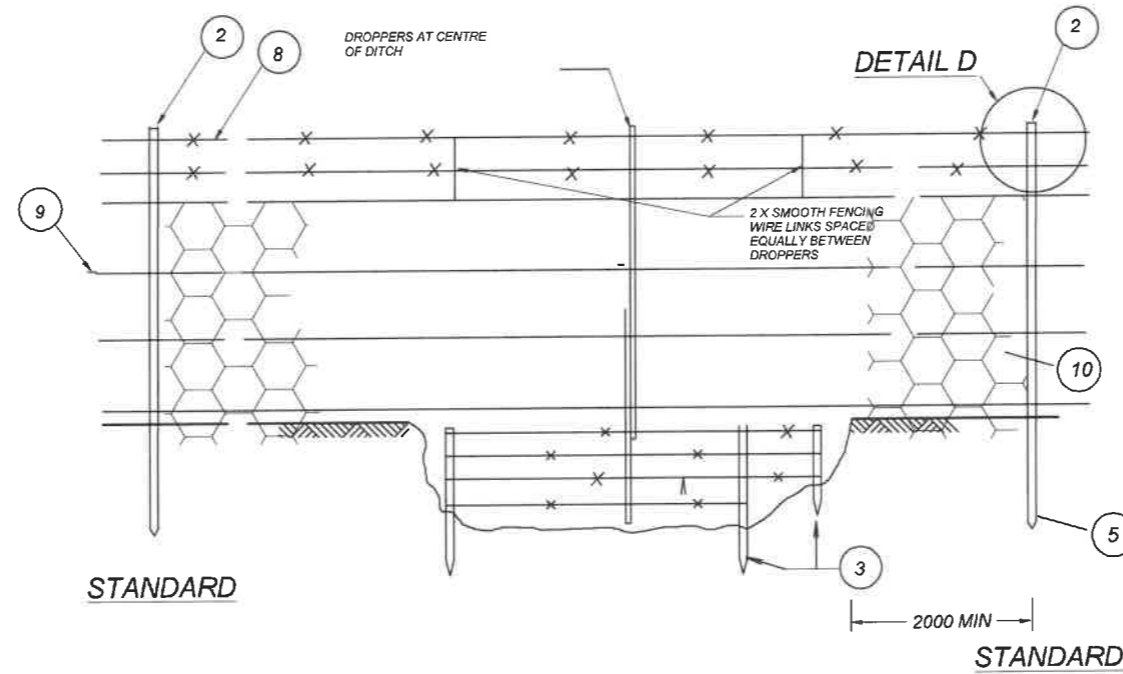
NGL NATURAL GROUND LEVEL

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

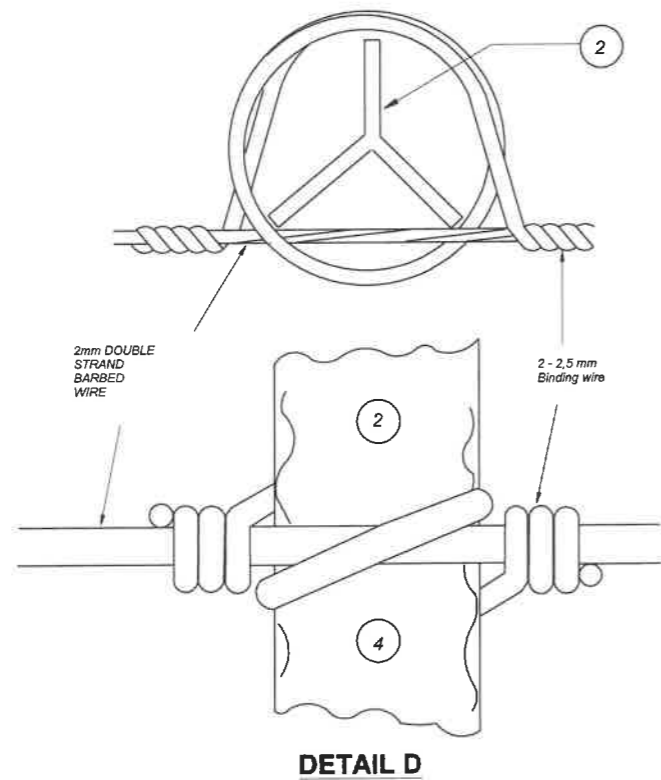
NO.	SPECIAL NOTES:	S KONDLO (CHIEF ENGINEER)	DEPARTMENT OF RURAL DEVELOPMENT AND AGRARIAN REFORM PROVINCE OF THE EASTERN CAPE	STANDARD VERMIN PROOF FENCE	SCALE	INDEX NO.
					NTS	SCMM-03/19/01
	OCTOBER 2024 (DATE APPROVED)		ENGINEERING SERVICES PRIVATE BAG X015 DOHNE ADI STUTTERHEIM 4930	1,2m HIGH -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



STOCK PROOF FENCE



CROSSING CANALS AND TRENCHES



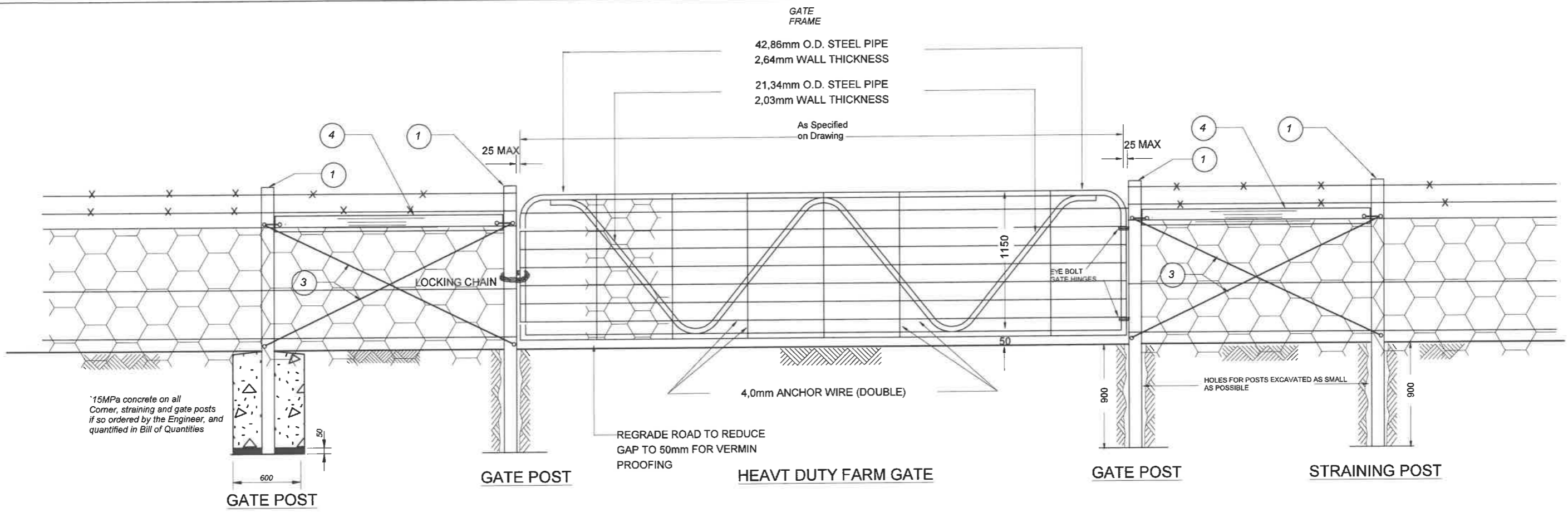
LEGEND

- 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

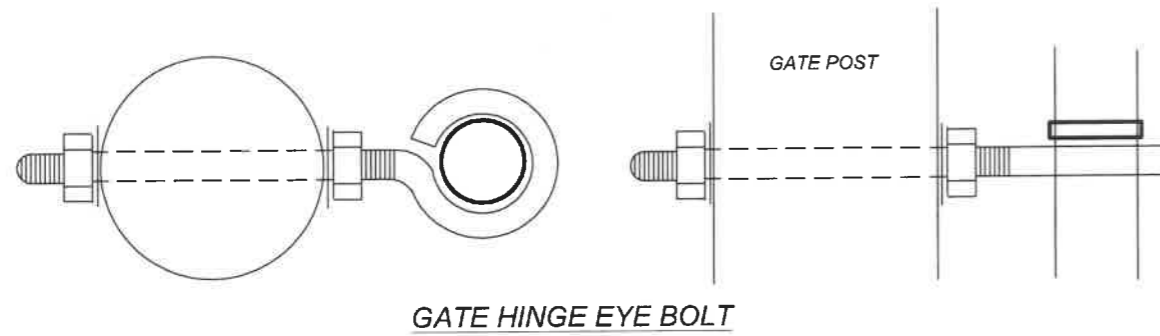
NGL NATURAL GROUND LEVEL

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)	DEPARTMENT OF RURAL DEVELOPMENT AND AGRARIAN REFORM PROVINCE OF THE EASTERN CAPE	SCALE	INDEX NO.
				NTS	SCMM-03/19/02
		OCTOBER 2024 (DATE APPROVED)	ENGINEERING SERVICES PRIVATE BAG X015 DOHNE ADI STUTTERHEIM 4930	1,2m HIGH - VERMIN PROOF FENCE	A3 ORIGINAL
					PLAN NO. SHEET 2 OF 5



FARM GATES



LEGEND

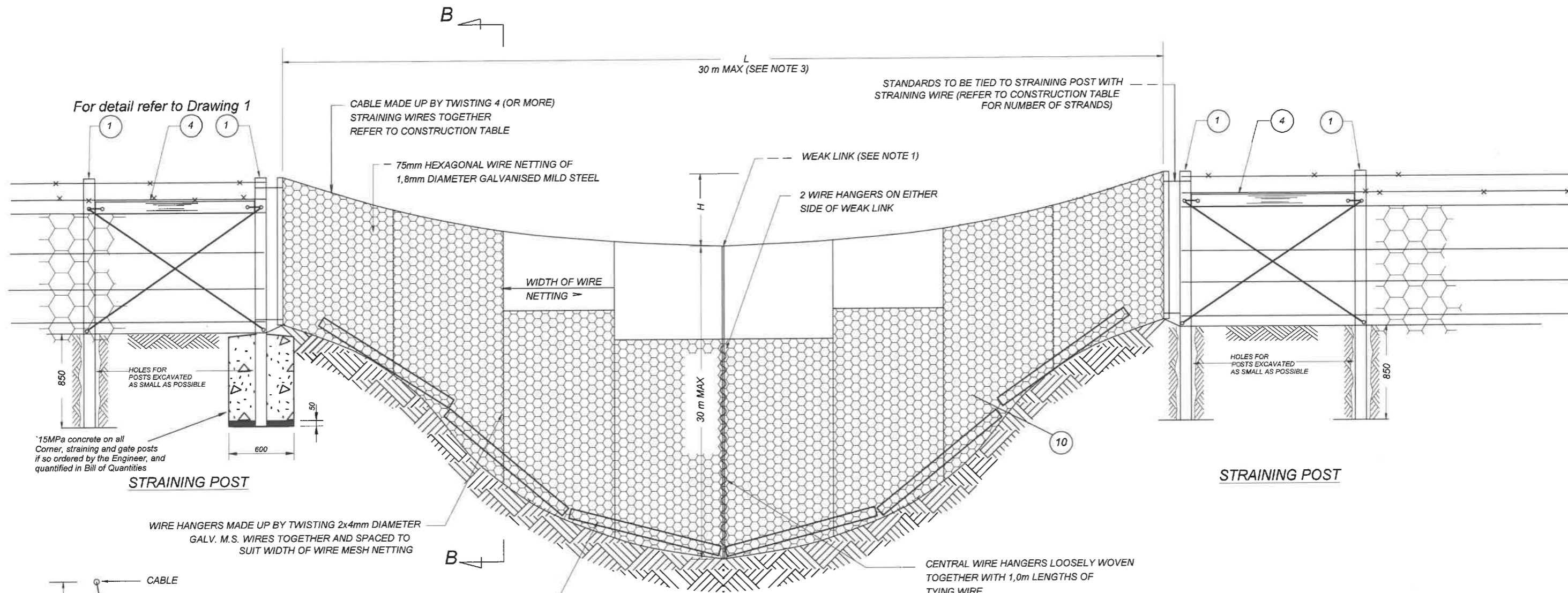
- ① 125 - 150mm TOP DIAMETER x 2100 mm TREATED TIMBER POST
CORNER, STRAINING AND ANCHOR POSTS
- ③ 4mm x 4 STRANDS TWISTED SOFT GALVANISED BINDING WIRE
- ④ 100 - 125mm TOP DIAMETER x 1800 mm TREATED TIMBER POST
BRACES IN BOX ANCHORS

NGL NATURAL GROUND LEVEL

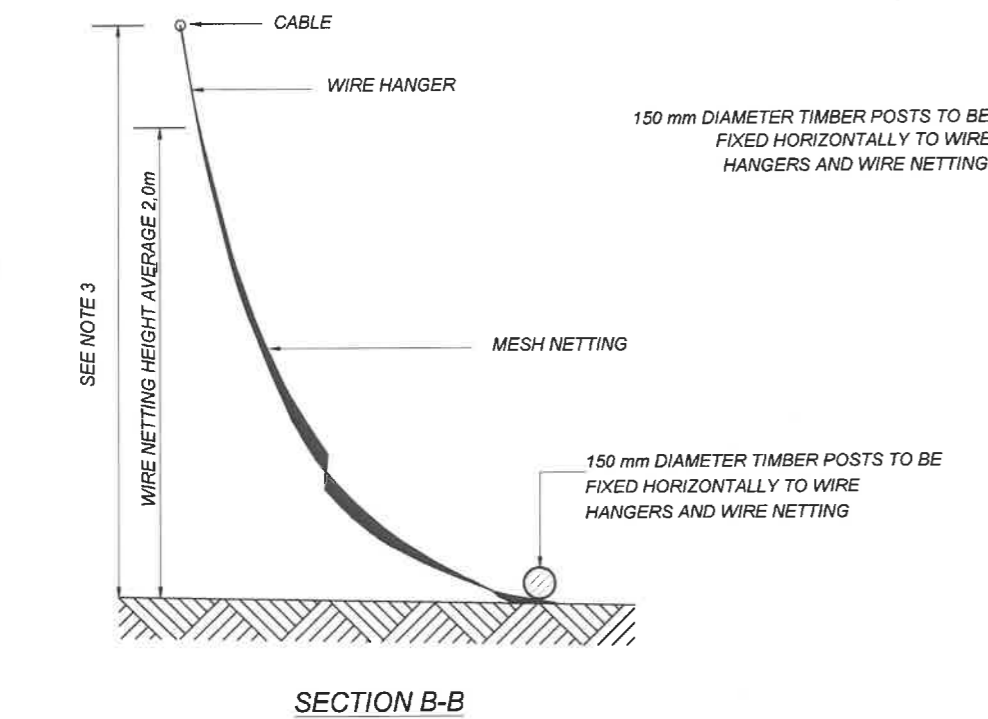
NOTES: 1. 40 mm STAPLES REQUIRED FOR CORNER POSTS and STRAINING POSTS

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	INDEX NO.
					NTS	SCMM-03/19/03
		OCTOBER 2024 (DATE APPROVED)	ENGINEERING SERVICES PRIVATE BAG X015 DOHNE ADI STUTTERHEIM 4930	1,2m HIGH - VERMIN PROOF FENCE	A3 ORIGINAL	PLAN NO. SHEET 3 OF 5



ELEVATION



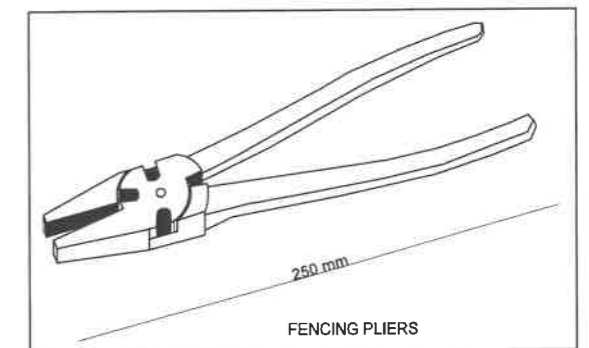
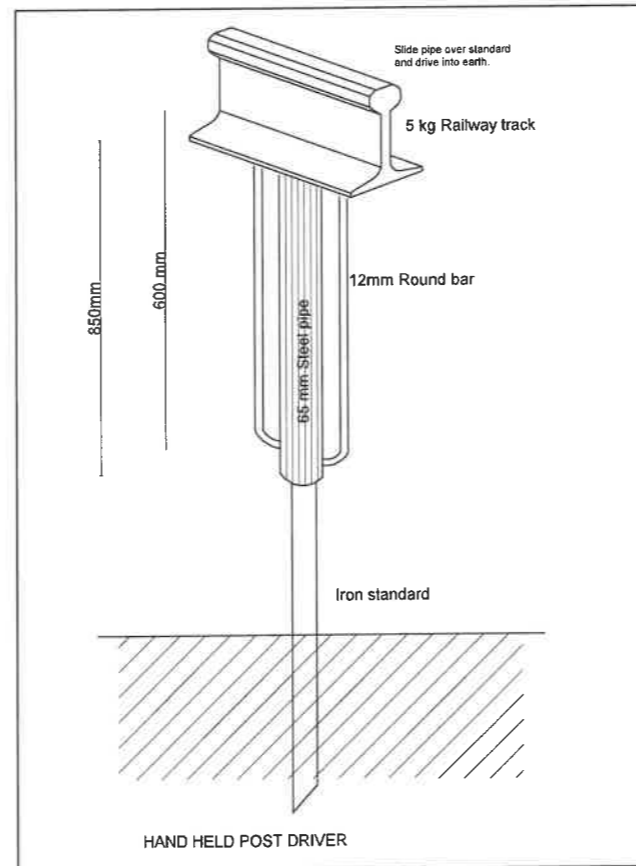
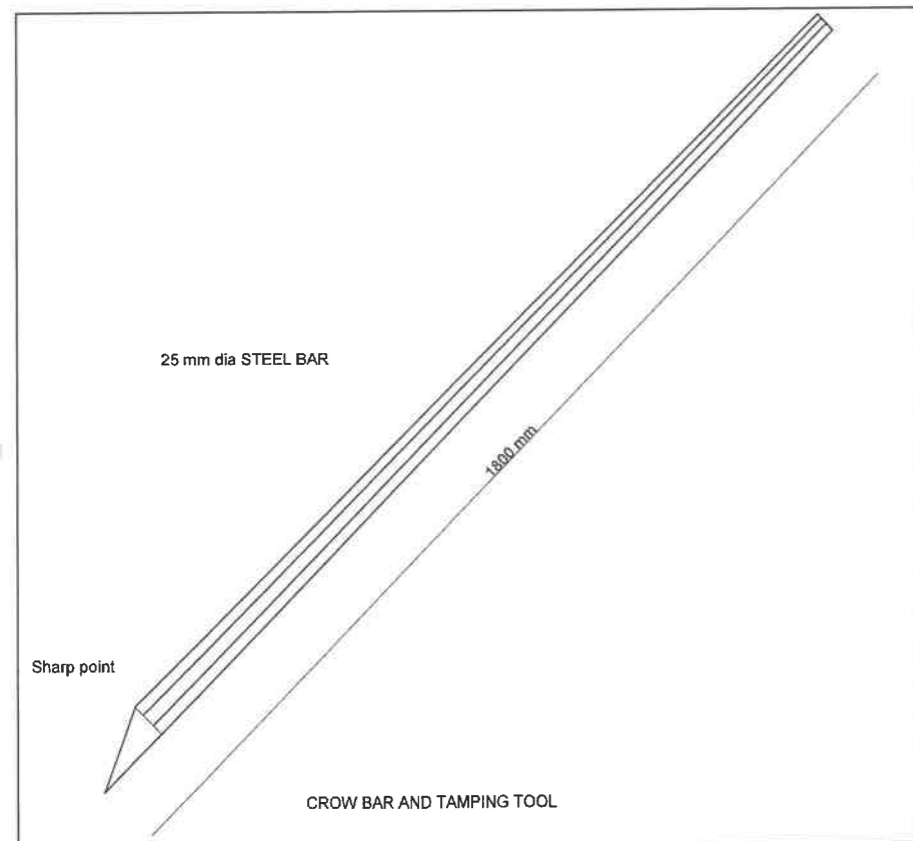
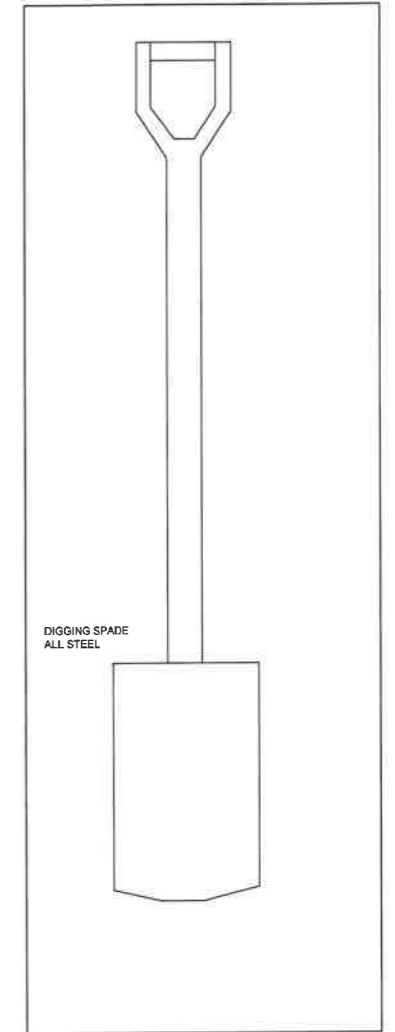
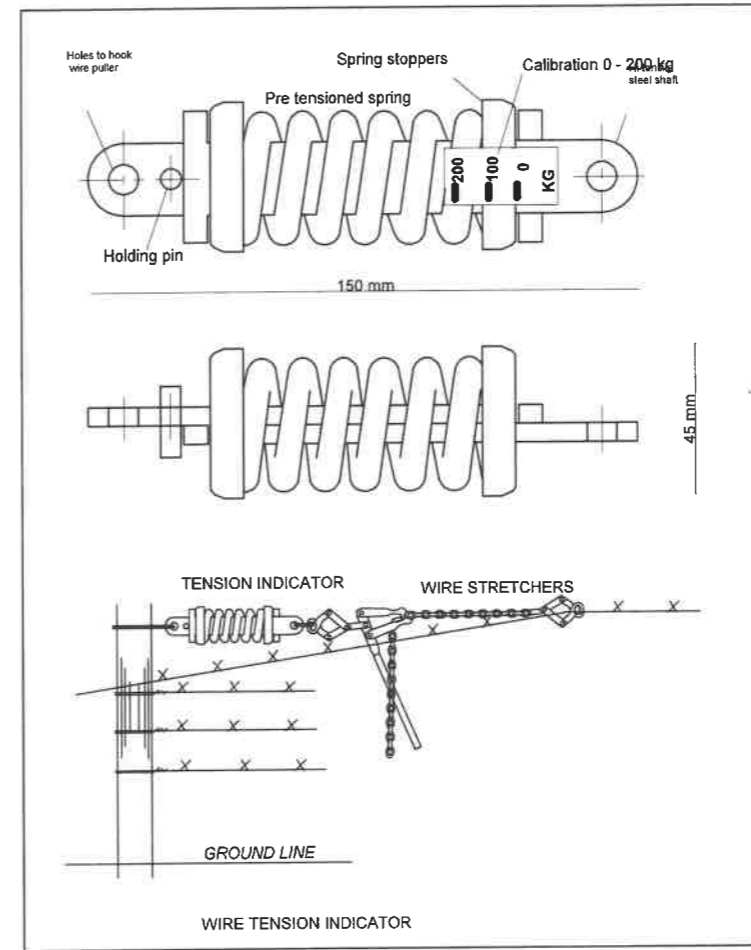
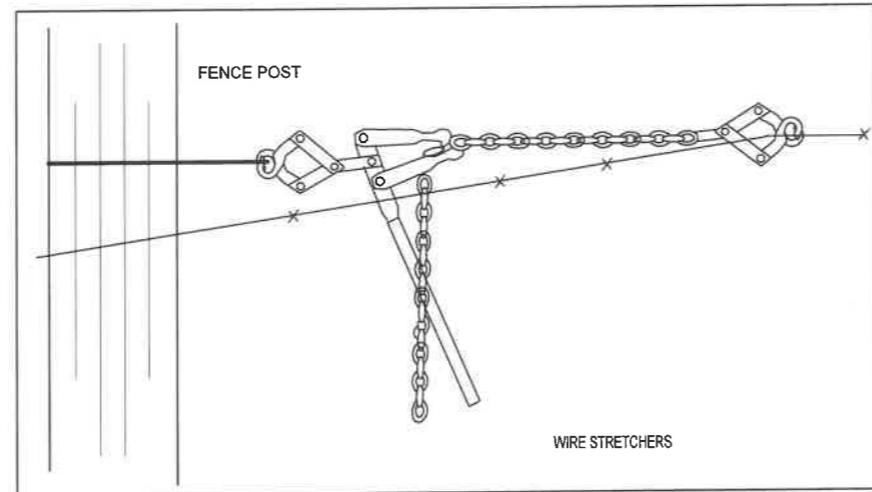
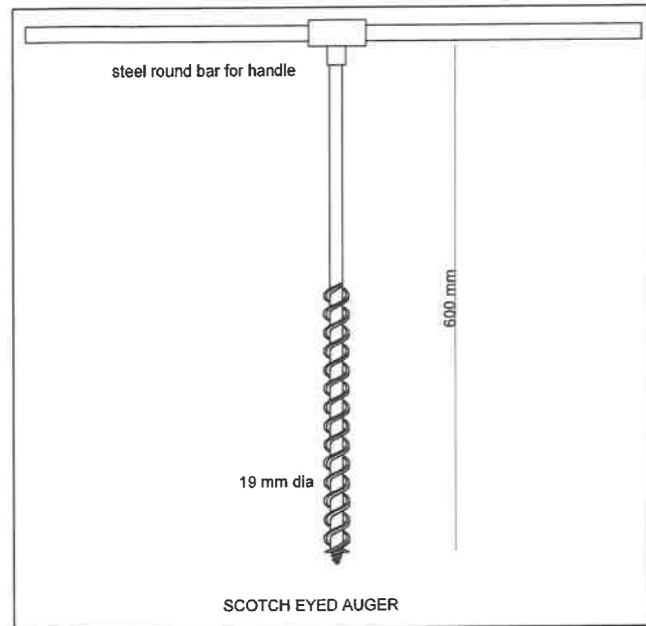
SECTION B-B

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		

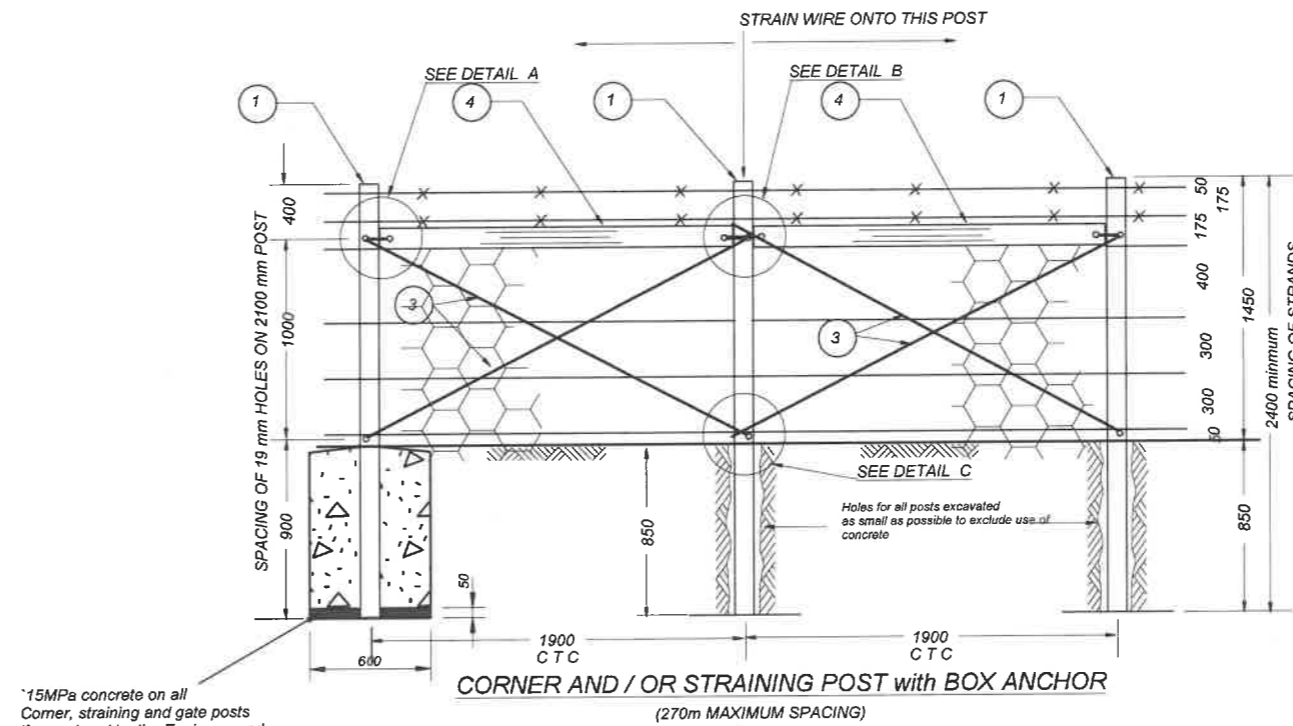
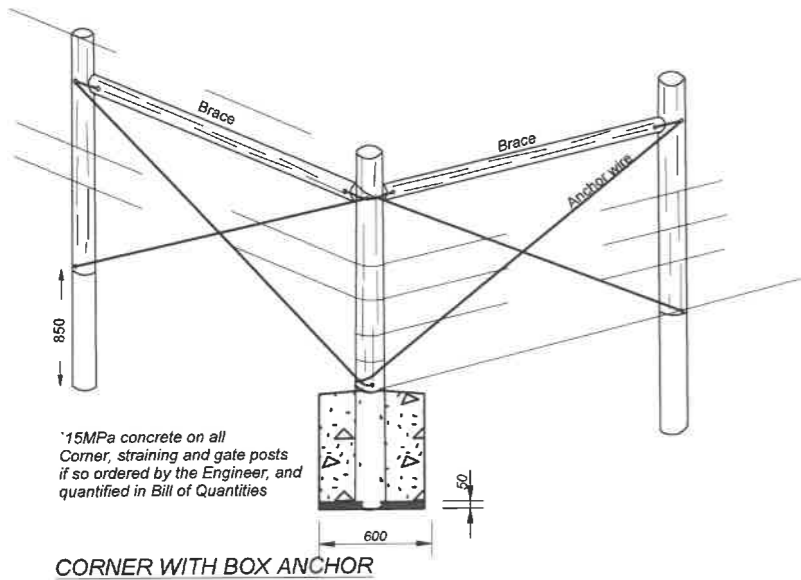
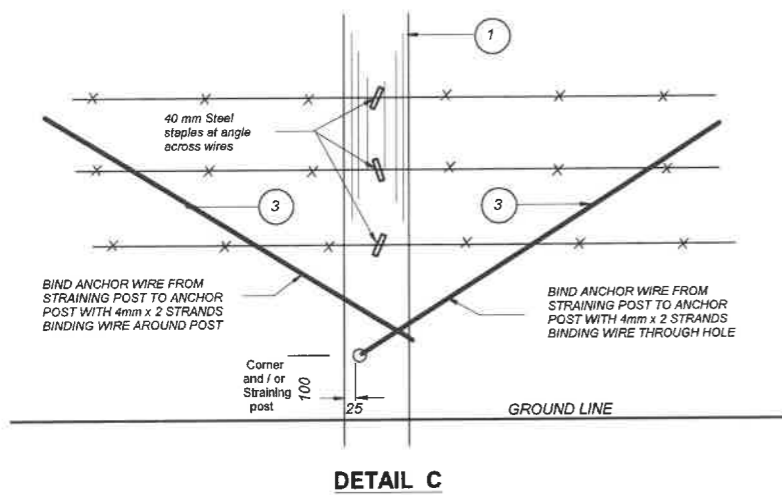
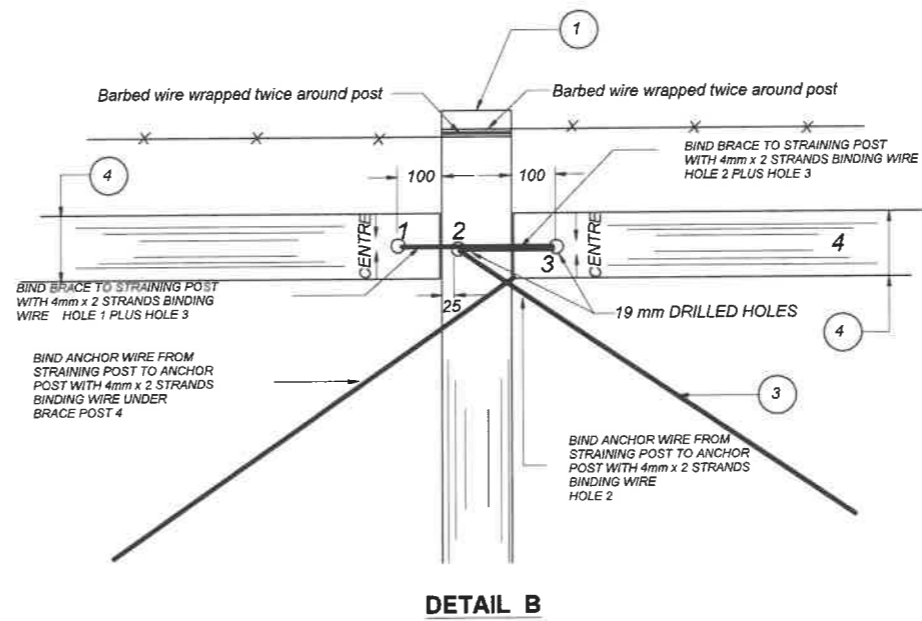
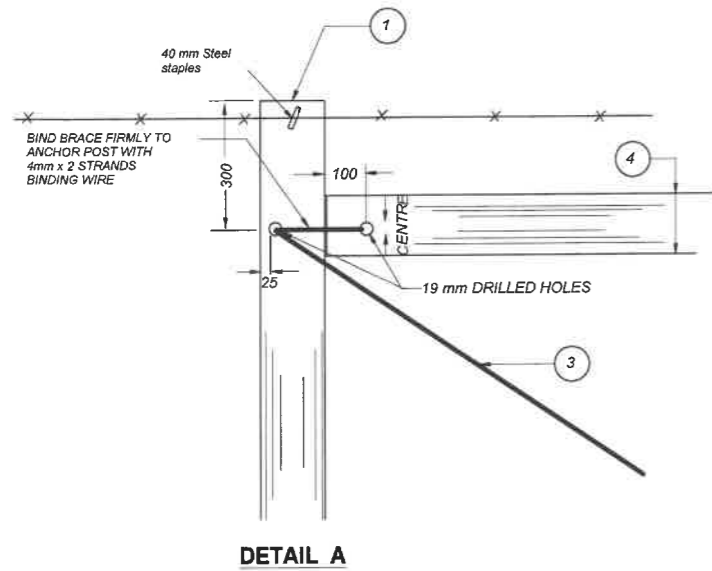
- NOTES :**
- WEAK LINK IN CABLE MAY BE POSITIONED EITHER AT END STANDARDS OR IN CENTRE OF CABLE AS SHOWN. FORM BY LOOPING A STRAINING WIRE THROUGH WIRE HANGERS. NUMBER OF LOOPS ARE TABULATED IN CONSTRUCTION TABLE.
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 - IF LENGTH OF WIRE NETTING EXCEEDS 30m FENCING TO BE DESIGNED BY THE ENGINEER.
- 10 — Netting wire, 1,8mm dia, 1200mm x 90mm hexagonal mesh

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-03/19/04			
					OCTOBER 2024 (DATE APPROVED)	ENGINEERING SERVICES PRIVATE BAG X015 DOHNE ADI STUTTERHEIM 4930	1,2m HIGH - VERMIN PROOF FENCE	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.
					NTS	SCMM-03/19/05
		OCTOBER 2024 (DATE APPROVED)	ENGINEERING SERVICES PRIVATE BAG X015 DOHNE ADI STUTTERHEIM 4930	1,2m HIGH - VERMIN PROOF FENCE	A3 ORIGINAL	PLAN NO. SHEET 5 OF 5

19.3 STANDARD VERMIN PROOF FENCE (1,4m)

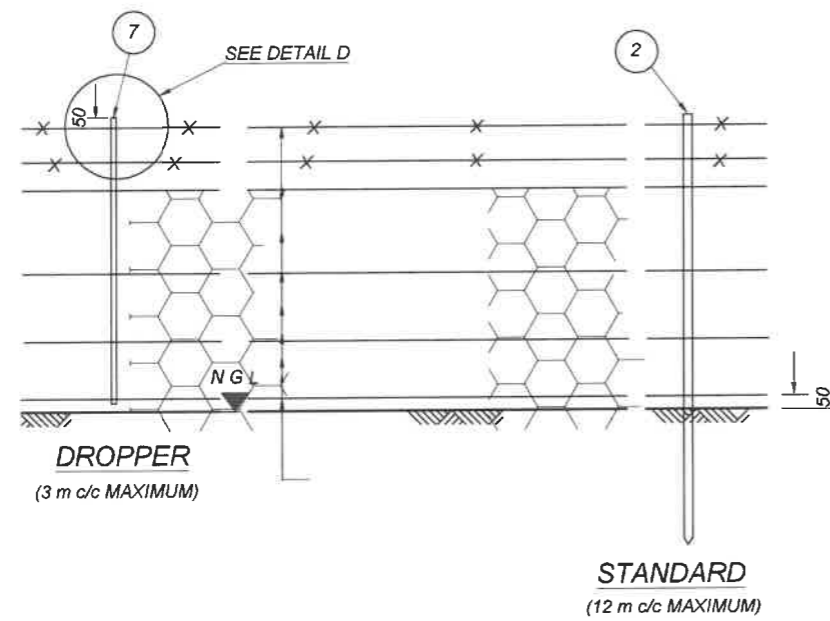


LEGEND

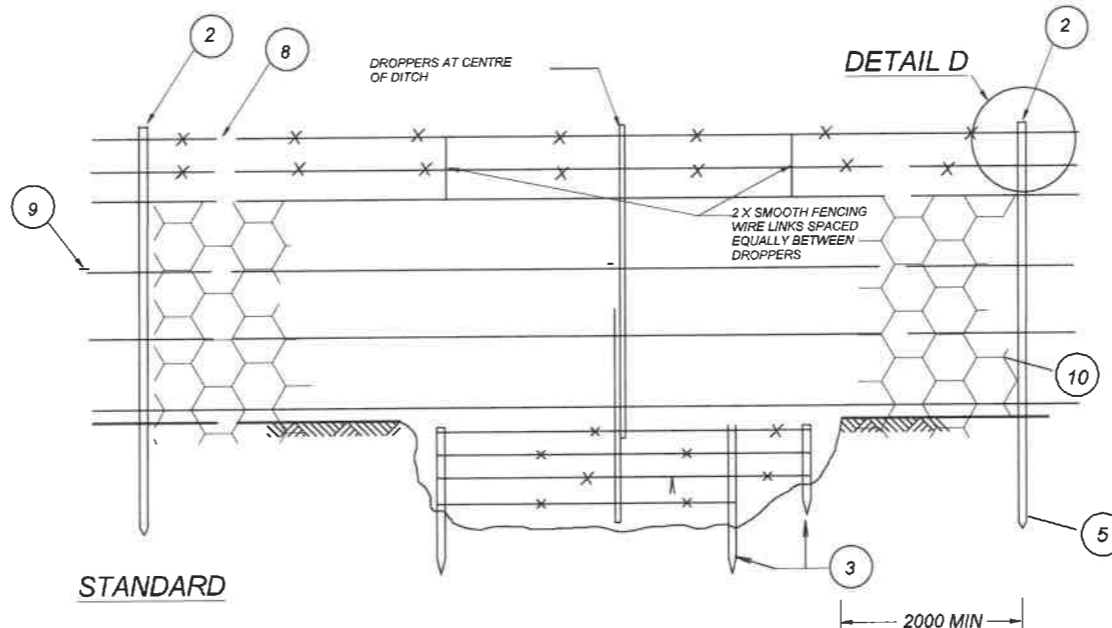
- 1 125 - 150mm TOP DIAMETER x 2400 mm TREATED TIMBER POST CORNER, STRAINING AND ANCHOR POSTS
- 3 4mm x 4 STRANDS TWISTED SOFT GALVANISED BINDING WIRE
- 4 100 - 125mm TOP DIAMETER x 1800 mm TREATED TIMBER POST BRACES IN BOX ANCHORS

- 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

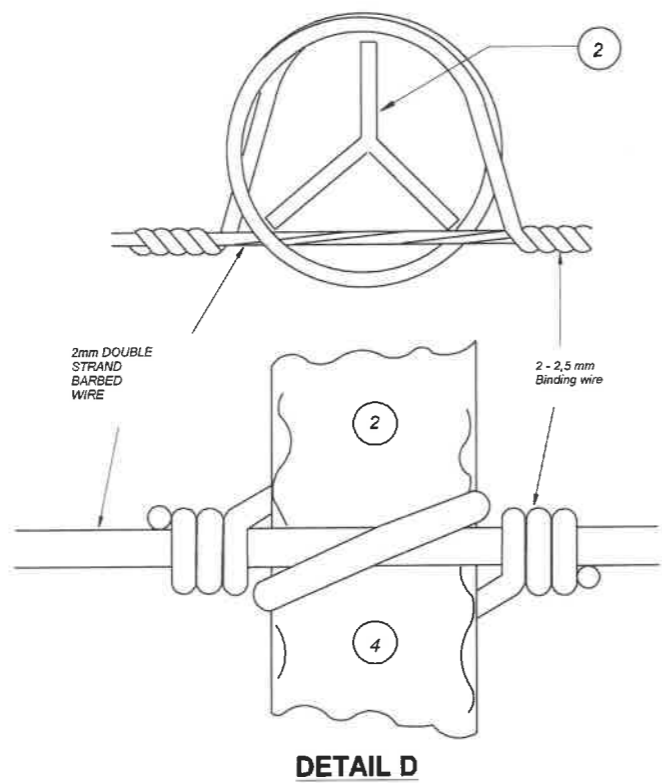
NO.	SPECIAL NOTES:	S KONDLO (CHIEF ENGINEER)	DEPARTMENT OF RURAL DEVELOPMENT AND AGRARIAN REFORM PROVINCE OF THE EASTERN CAPE	STANDARD VERMIN PROOF FENCE	SCALE	INDEX NO.
					NTS	SCMM-03/19/01
					A3 ORIGINAL	PLAN NO.
						SHEET 1 OF 5
	OCTOBER 2024 (DATE APPROVED)		ENGINEERING SERVICES PRIVATE BAG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



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 &
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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
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)

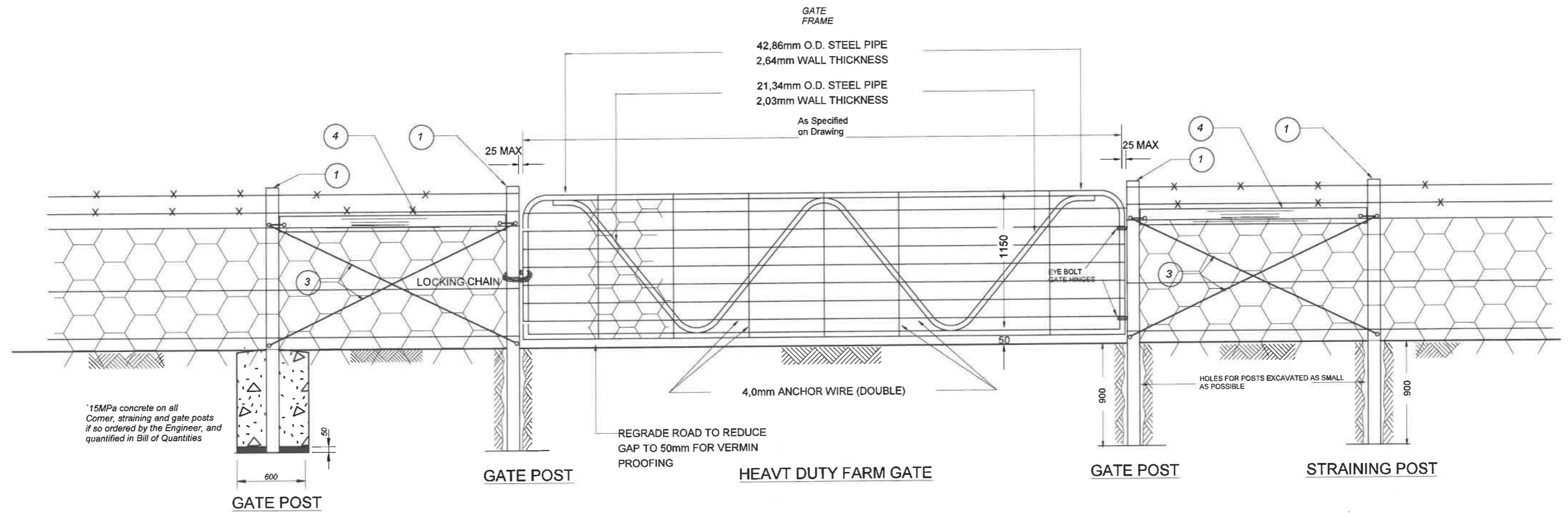
**DEPARTMENT OF RURAL DEVELOPMENT AND AGRARIAN REFORM
PROVINCE OF THE EASTERN CAPE**

ENGINEERING SERVICES
PRIVATE BAG X015
DOHNE ADI
STUTTERHEIM
4930

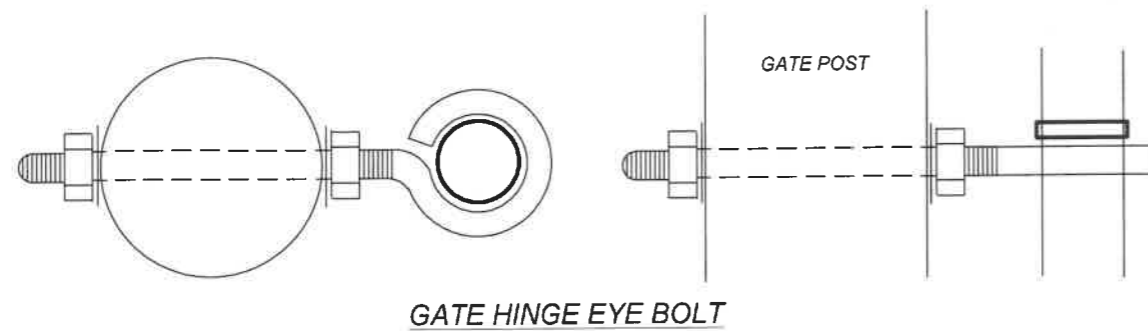
STANDARD VERMIN PROOF FENCE

1,4m HIGH - VERMIN PROOF FENCE

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



FARM GATES



LEGEND

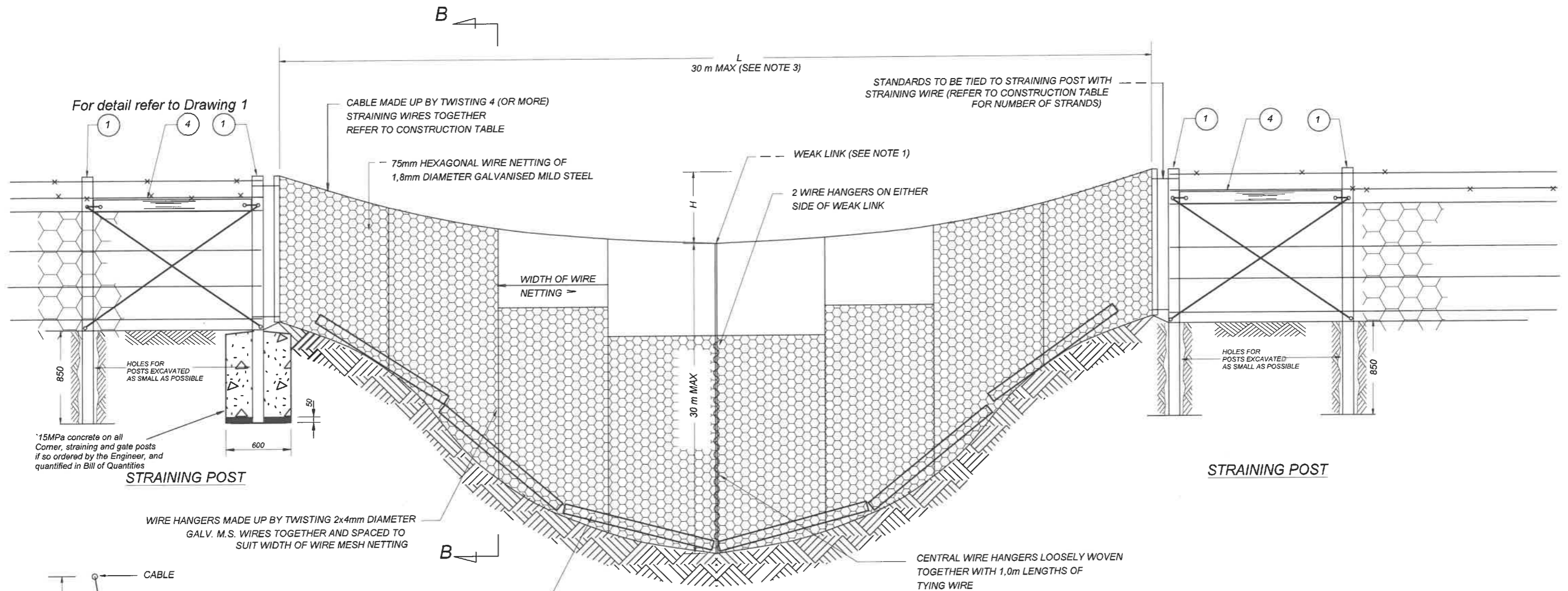
- ① 125 - 150mm TOP DIAMETER x 2400 mm TREATED TIMBER POST
CORNER, STRAINING AND ANCHOR POSTS
- ③ 4mm x 4 STRANDS TWISTED SOFT GALVANISED BINDING WIRE
- ④ 100 - 125mm TOP DIAMETER x 1800 mm TREATED TIMBER POST
BRACES IN BOX ANCHORS

NGL NATURAL GROUND LEVEL

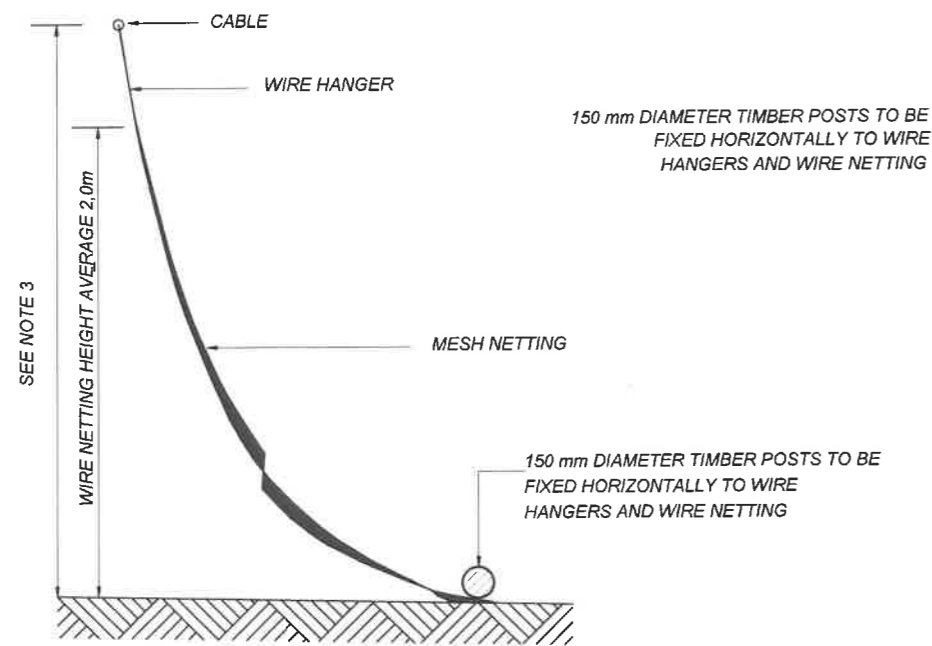
NOTES: 1. 40 mm STAPLES REQUIRED FOR CORNER POSTS and STRAINING POSTS

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	SCALE	INDEX NO.
				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 5
			STANDARD VERMIN PROOF FENCE		
			1,4m HIGH - VERMIN PROOF FENCE		



ELEVATION



SECTION B-B

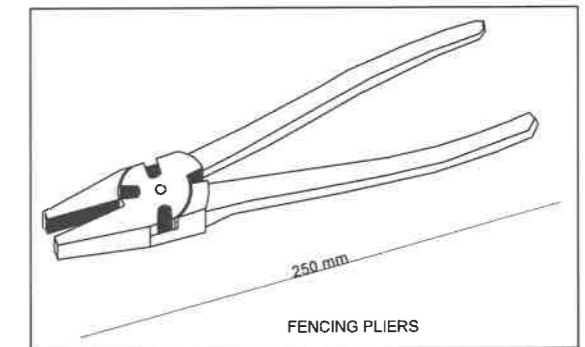
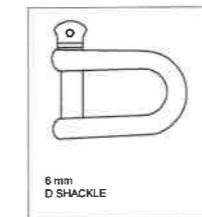
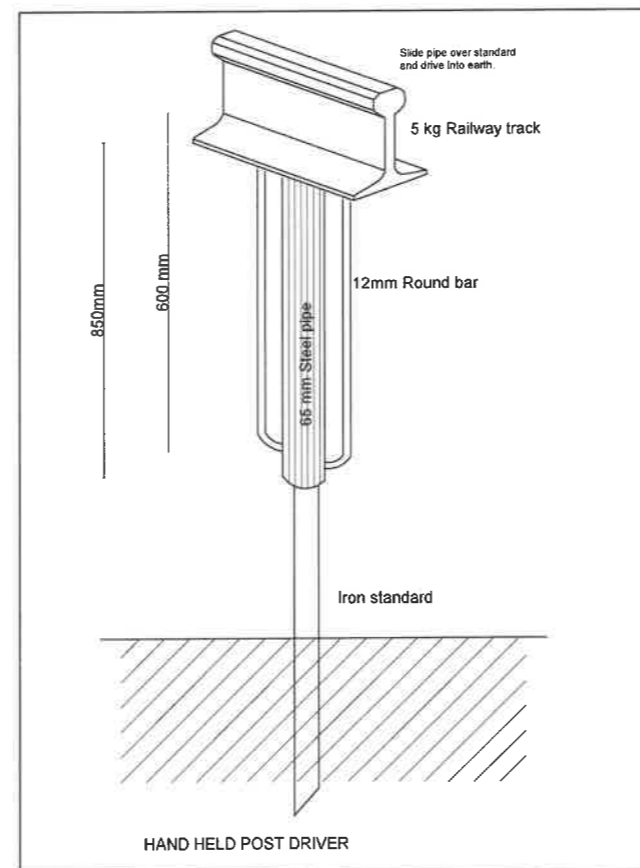
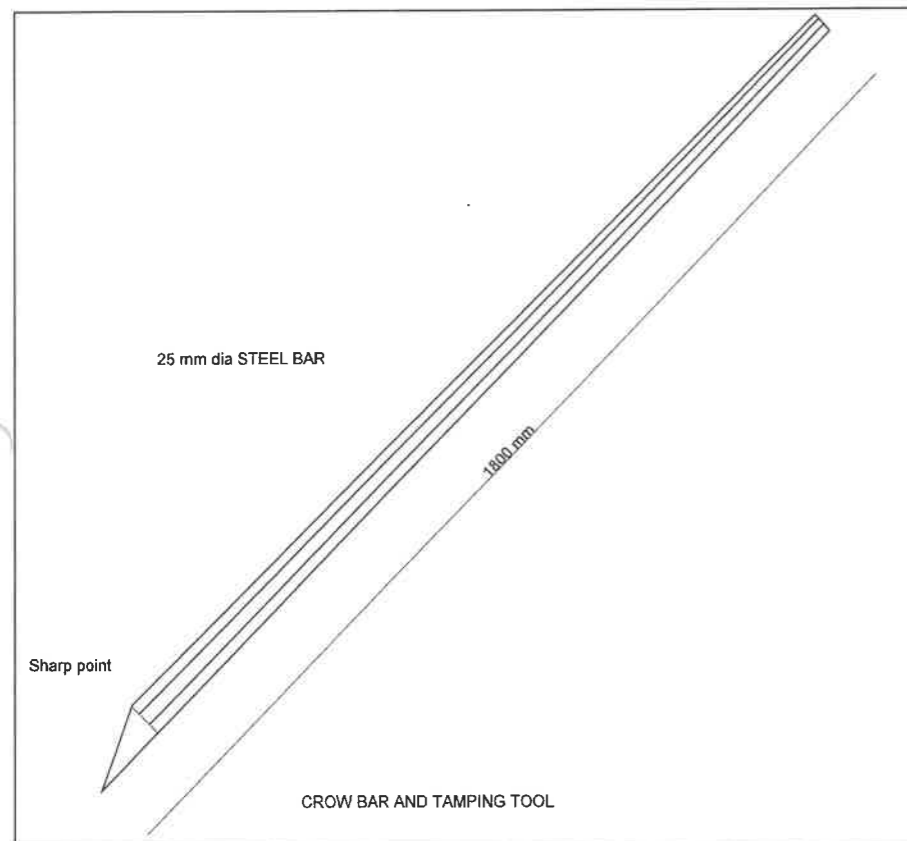
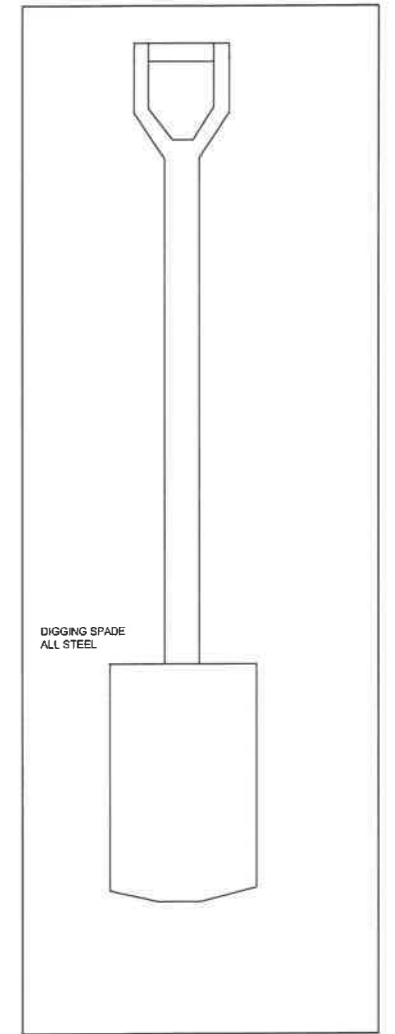
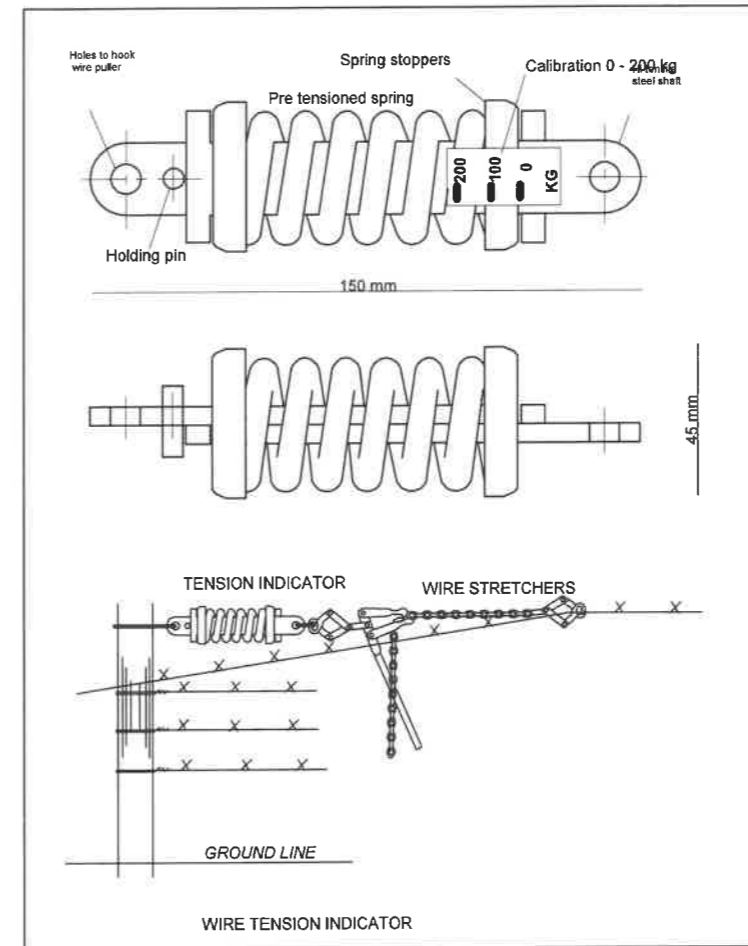
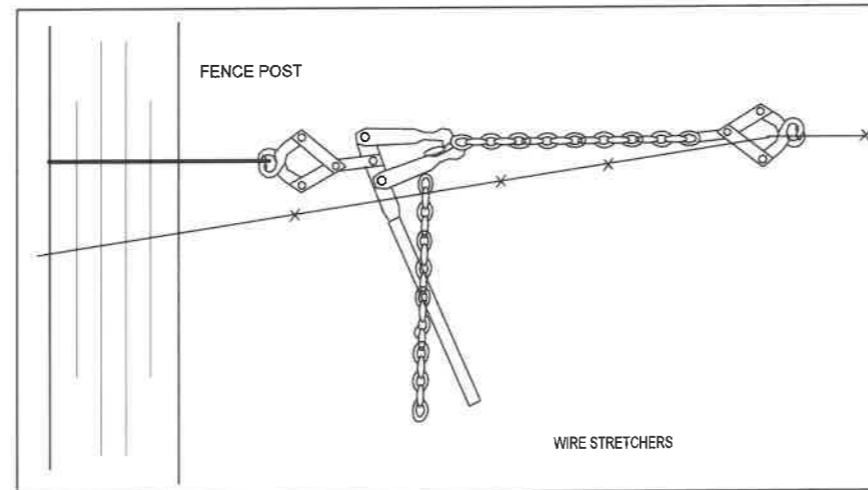
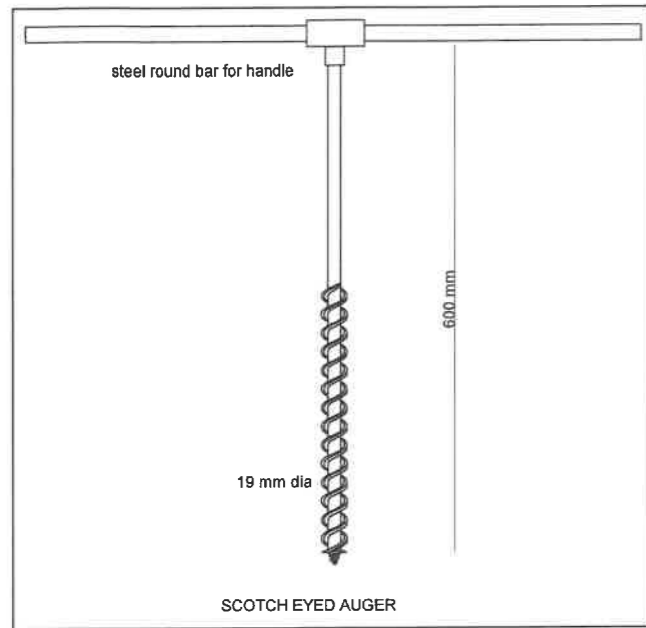
CLOSING OF OPENINGS

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 :

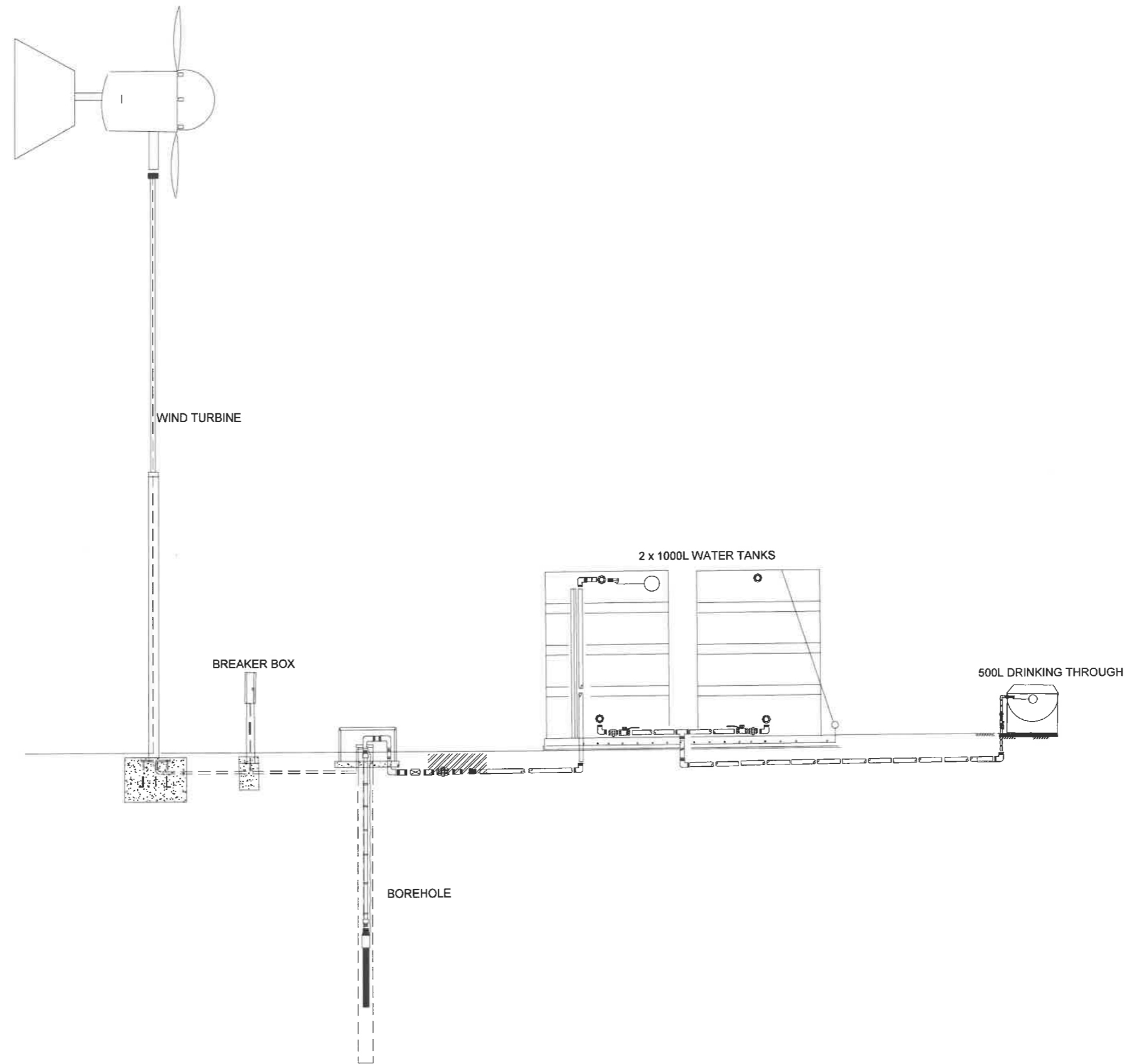
1. WEAK LINK IN CABLE MAY BE POSITIONED EITHER AT END STANDARDS OR IN CENTRE OF CABLE AS SHOWN. FORM BY LOOPING A STRAINING WIRE THROUGH WIRE HANGERS. NUMBER OF LOOPS ARE TABULATED IN CONSTRUCTION TABLE.
2. WHEN HEIGHT OF CABLE IS LESS THAN 2,0m, WIRE HANGERS MAY BE OMITTED AND NETTING LAPPED HORIZONTALLY.
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	INDEX NO.
					NTS	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

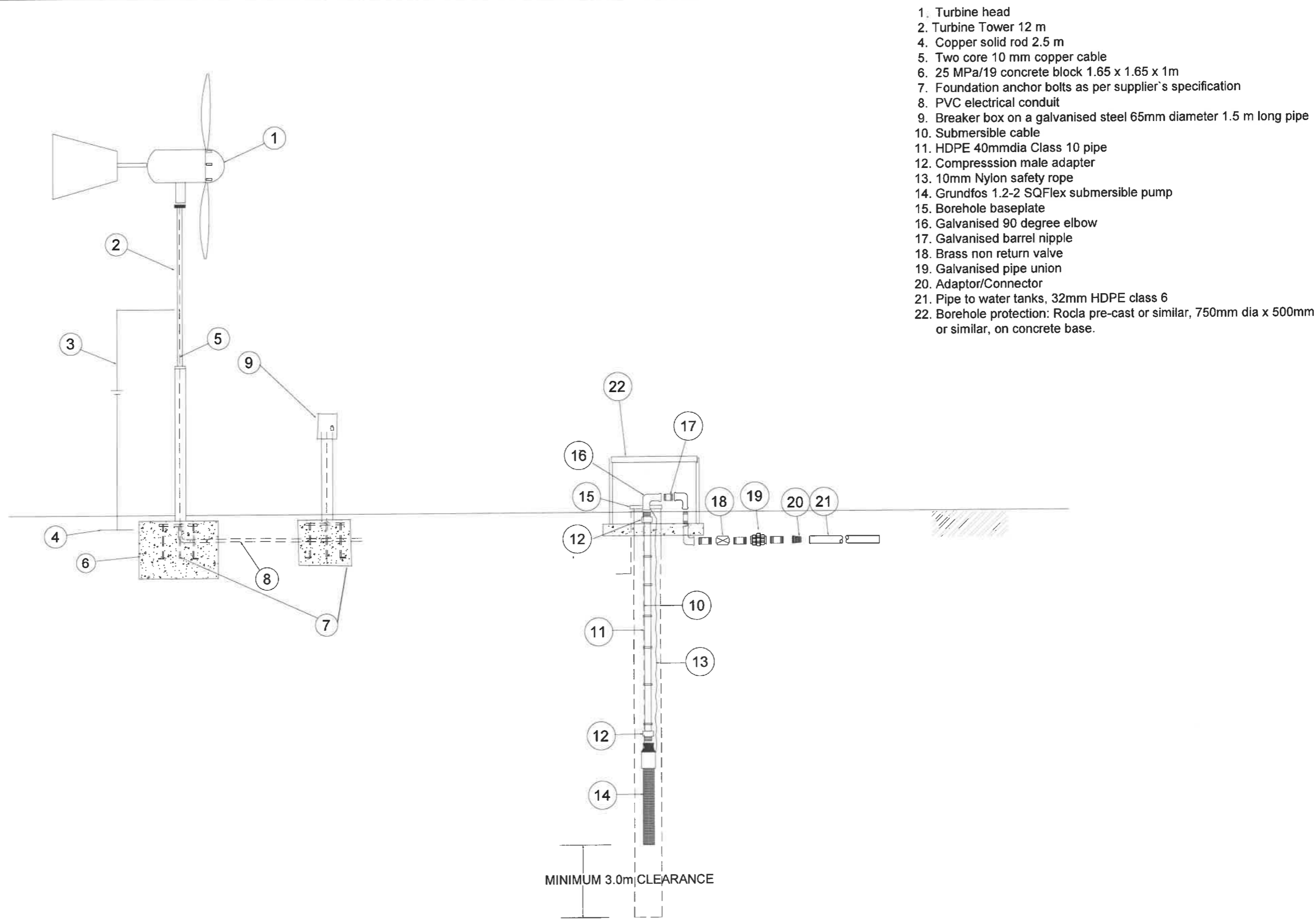


NO.	SPECIAL NOTES:	S KONDLO (CHIEF ENGINEER)	DEPARTMENT OF RURAL DEVELOPMENT AND AGRARIAN REFORM PROVINCE OF THE EASTERN CAPE	ENGINEERING SERVICES PRIVATE BAG X015 DOHNE ADI STUTTERHEIM 4930	STANDARD VERMIN PROOF FENCE	SCALE	INDEX NO.
						NTS	SCMM-03/19/05
					1,4m HIGH - VERMIN PROOF FENCE	A3 ORIGINAL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

21 STANDARD STOCK WATER SYSTEM



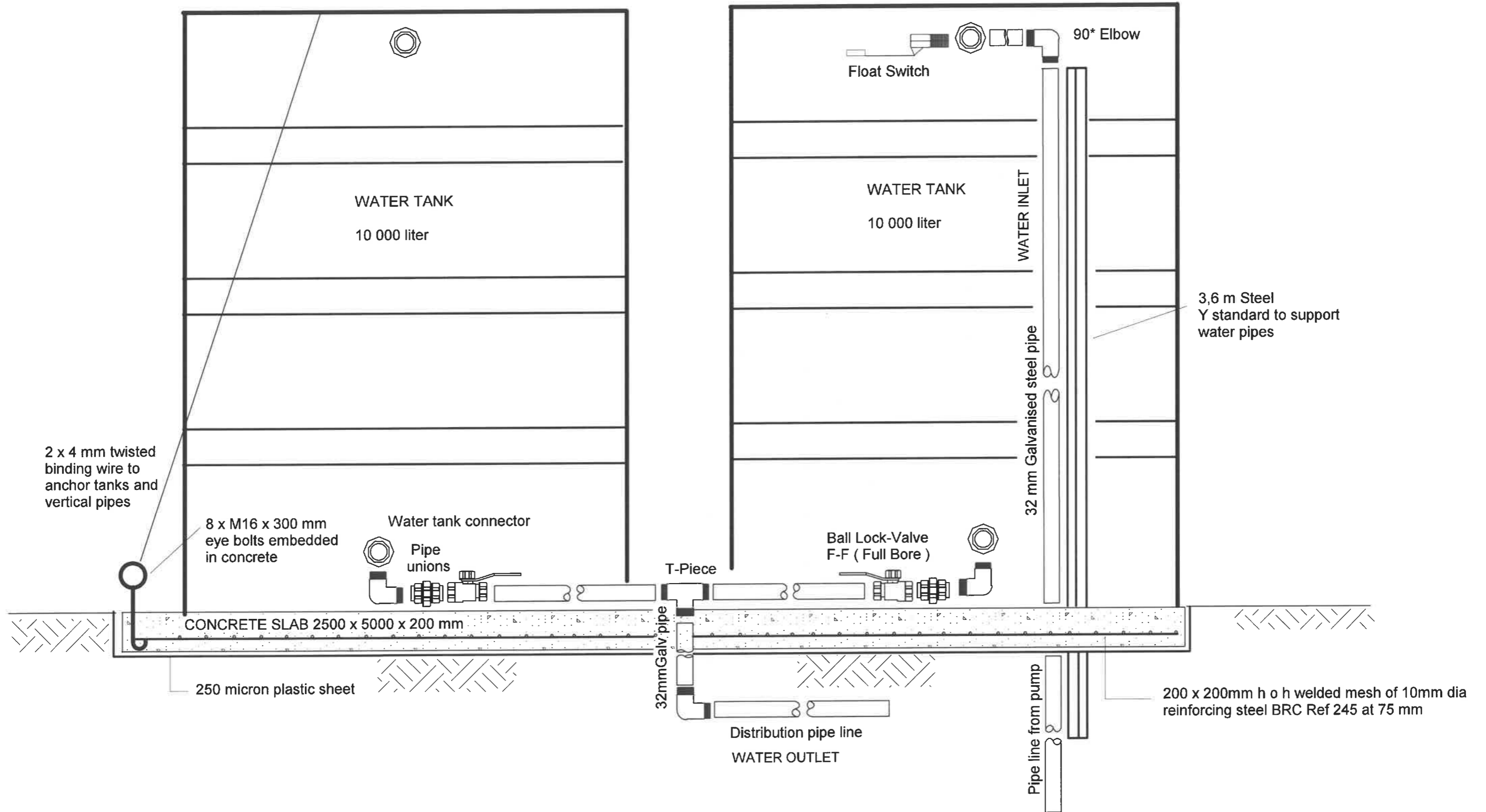
NO.	SPECIAL NOTES:	S KONDLO (CHIEF ENGINEER)	DEPARTMENT OF RURAL DEVELOPMENT AND AGRARIAN REFORM PROVINCE OF THE EASTERN CAPE	STOCK WATER SYSTEM	SCALE	INDEX NO.
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		OCTOBER 2024 (DATE APPROVED)	ENGINEERING SERVICES PRIVATE BAG X015 DOHNE ADI STUTTERHEIM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



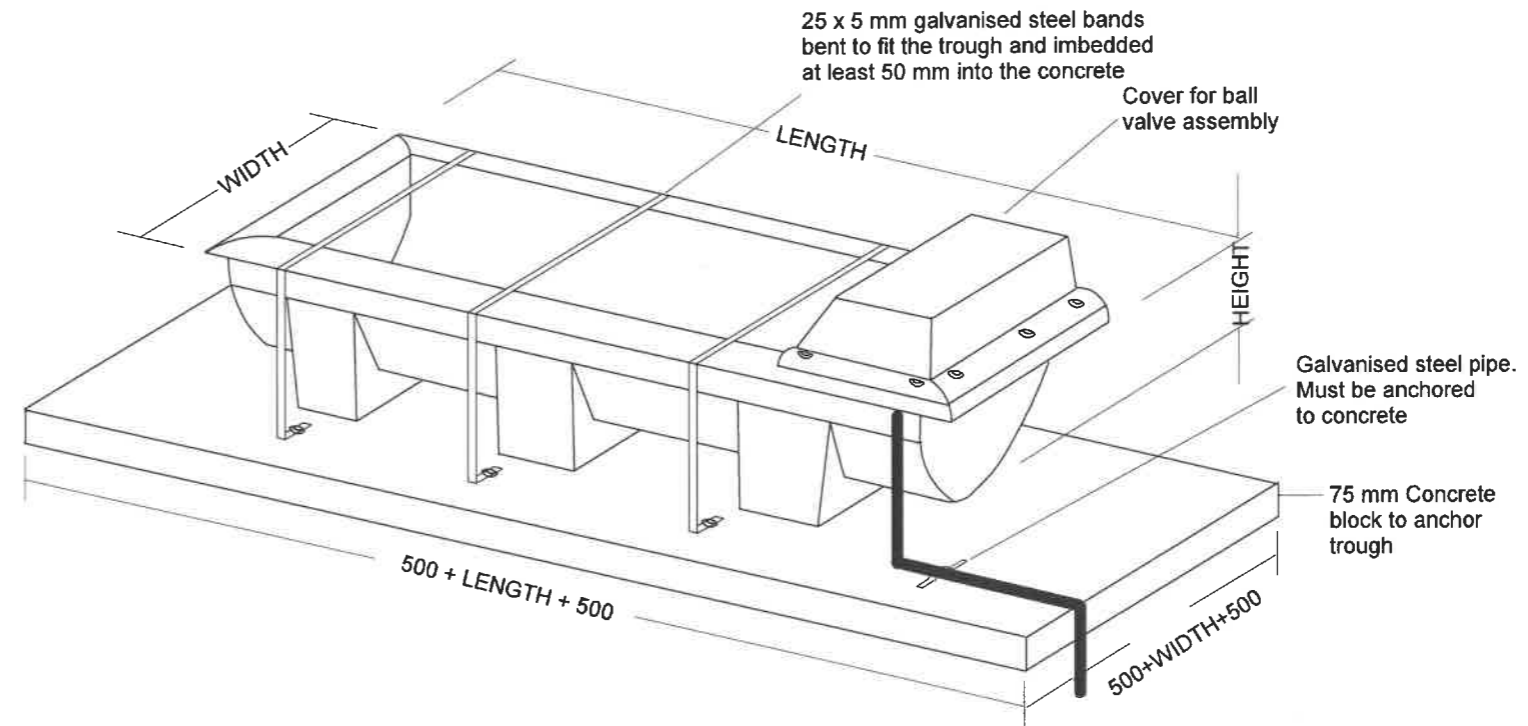
1. Turbine head
2. Turbine Tower 12 m
3. Copper solid rod 2.5 m
4. Two core 10 mm copper cable
5. 25 MPa/19 concrete block 1.65 x 1.65 x 1m
6. Foundation anchor bolts as per supplier's specification
7. PVC electrical conduit
8. Breaker box on a galvanized steel 65mm diameter 1.5 m long pipe
9. Submersible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

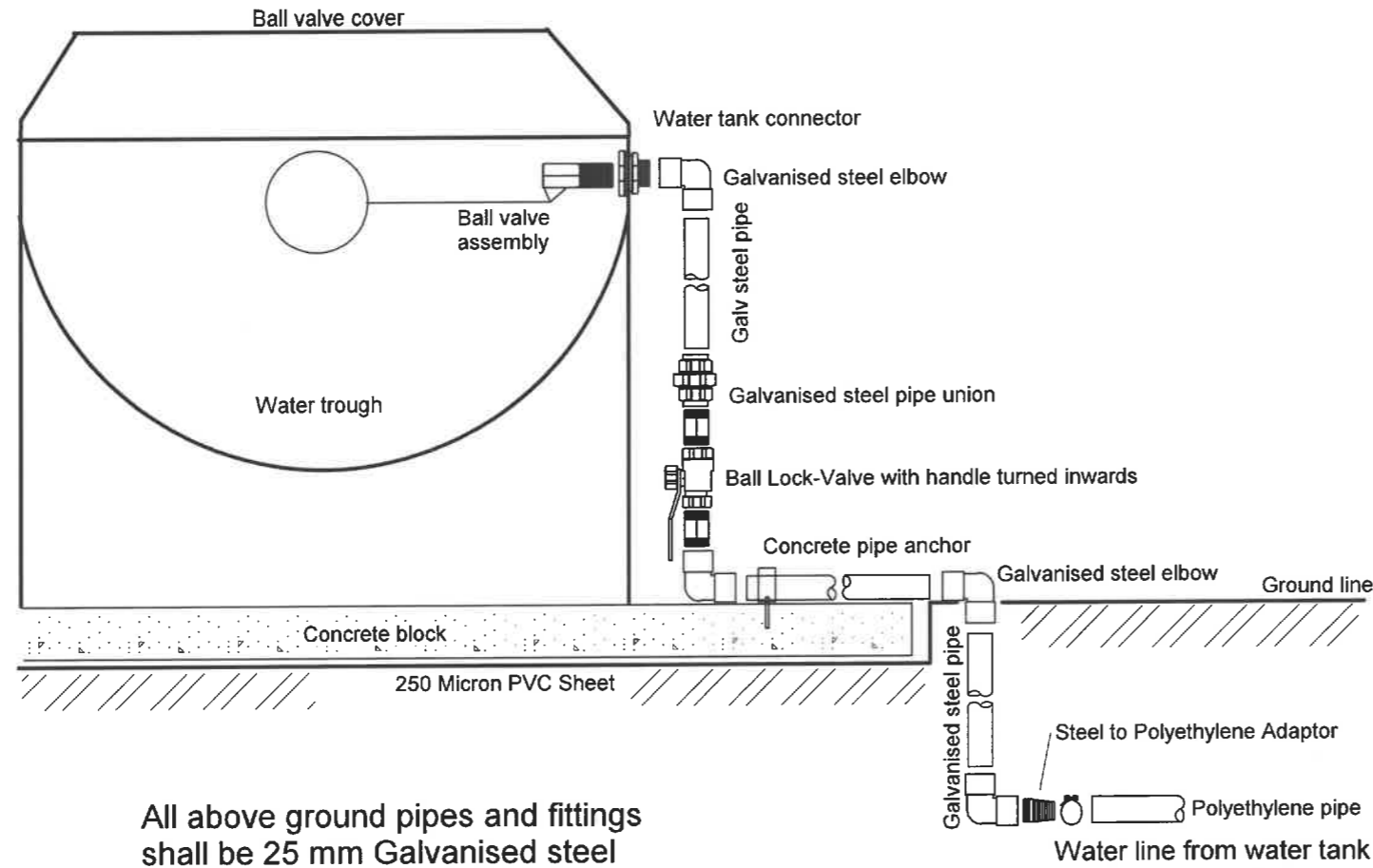
TWO WATER TANKS INLET AND OUTLET CONNECTIONS



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



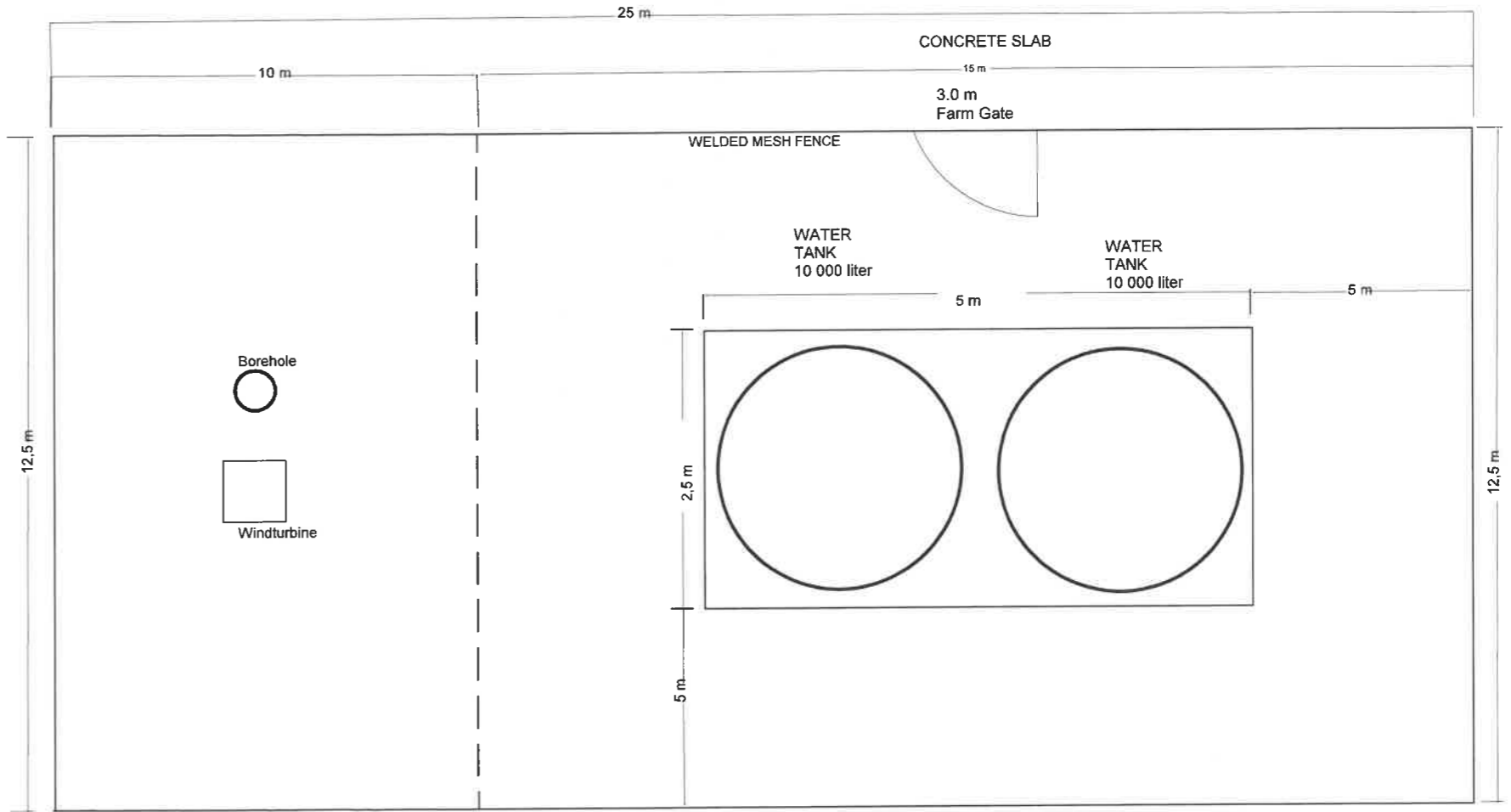
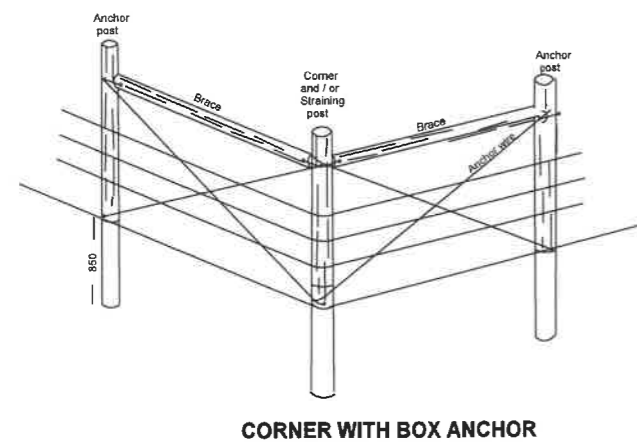
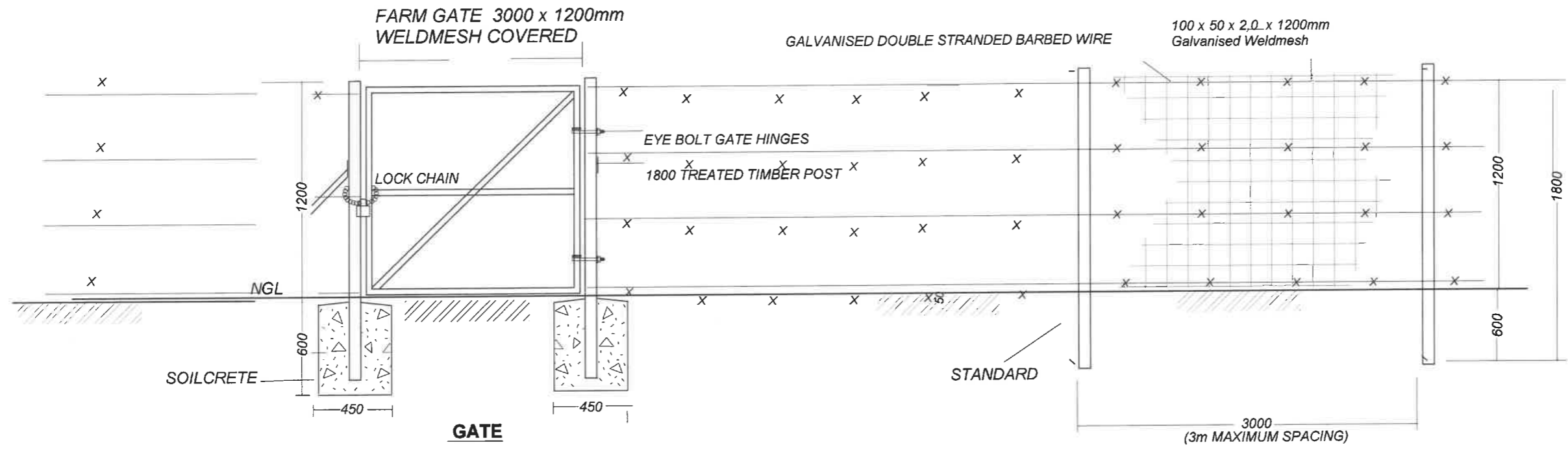
500 liter AND/OR 160 liter WATER TROUGH DETAIL



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

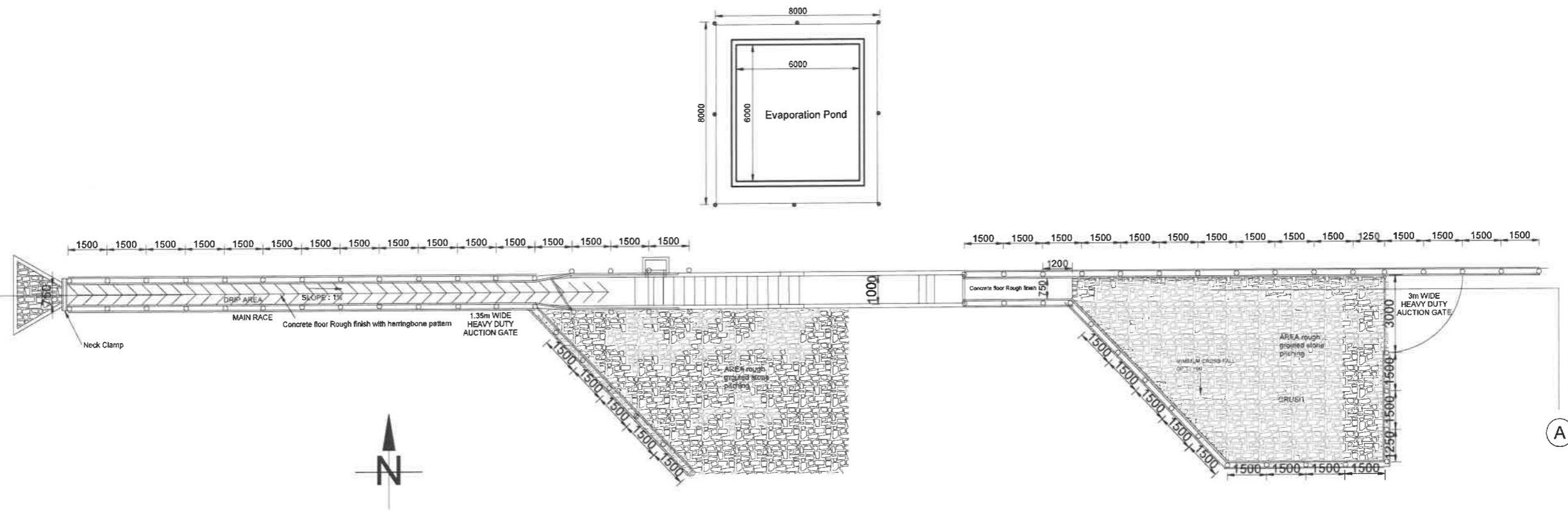
WATER TROUGH CONNECTIONS

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

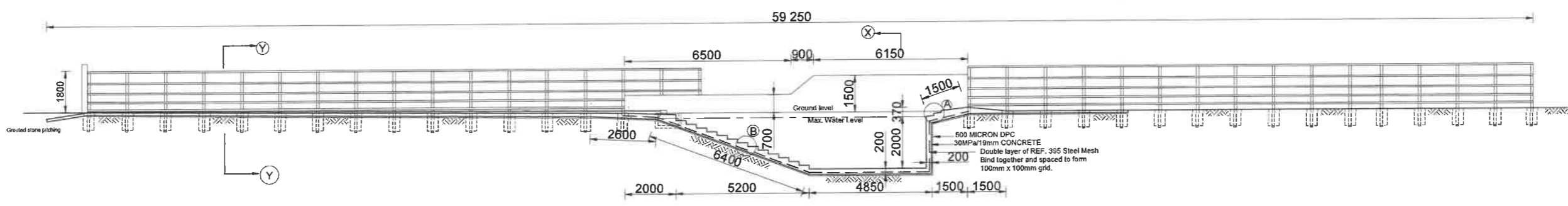


NO.	SPECIAL NOTES:	S KONDLO (CHIEF ENGINEER)	DEPARTMENT OF RURAL DEVELOPMENT AND AGRARIAN REFORM PROVINCE OF THE EASTERN CAPE	STOCK WATER SYSTEM	SCALE	INDEX NO.
					NTS	SCMM-03/21/06
		OCTOBER 2024 (DATE APPROVED)	ENGINEERING SERVICES PRIVATE BAG X015 DOHNE ADI STUTTERHEIM 4930	WATER TANKS TERRAIN FENCE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

22 STANDARD CATTLE PLUNGE DIP TANK (STEEL)



PLAN VIEW



SECTION A-A

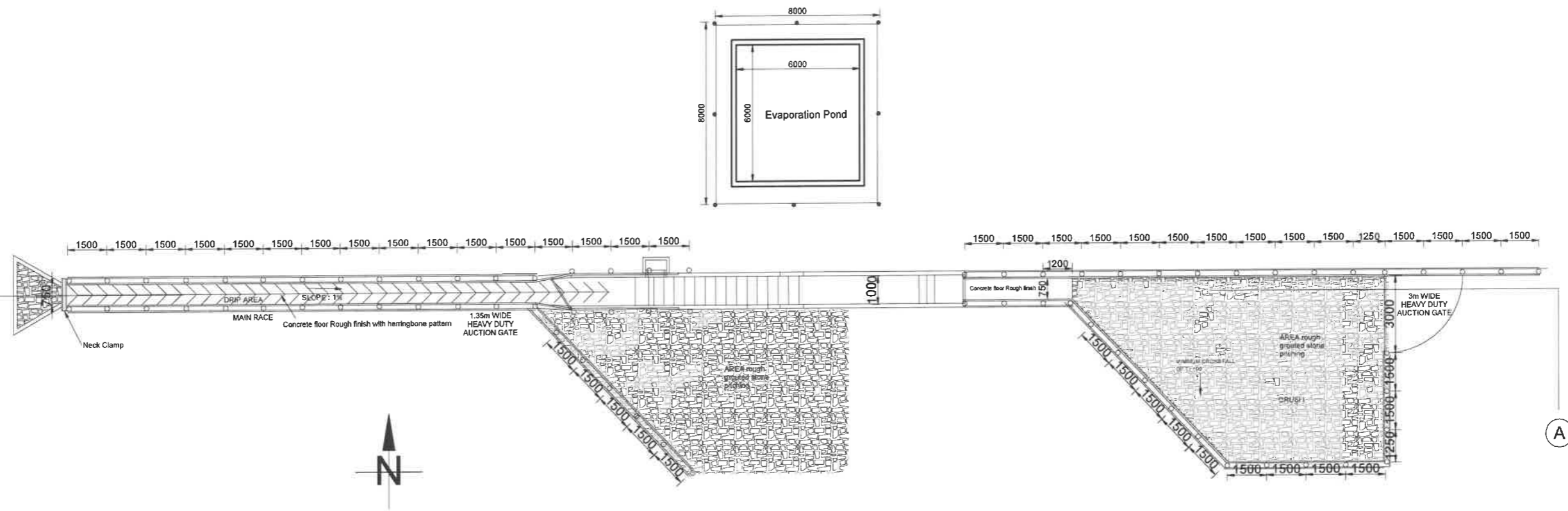
THIS OFFICE SHOULD BE NOTIFIED FOR INSPECTIONS AT THE FOLLOWING STAGES:
 1. After the excavations has been completed and before concrete is placed.
 2. After formwork has been placed.

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

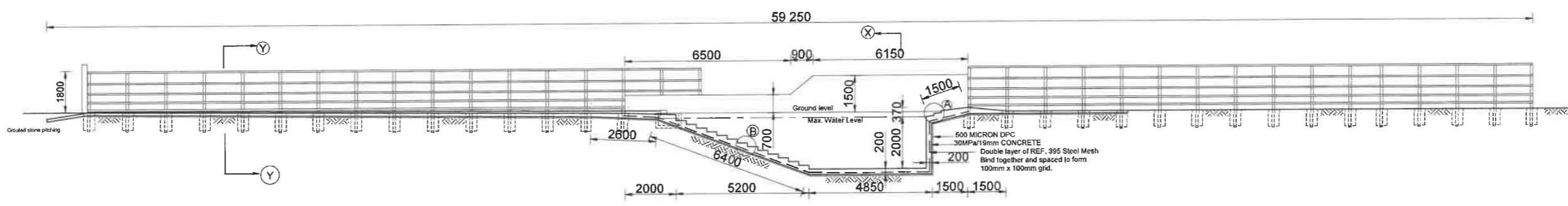
GRouted STONE PITCHING
 Grout mix
 1 cement : 2 washed river sand.
 100mm to 150mm dia stones.

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 NTS	INDEX NO. SCMM-03/22/01
				SITE LAYOUT PLAN	A3 ORIGINAL	PLAN NO. SHEET 1 OF 9
		OCTOBER 2024 (DATE APPROVED)	ENGINEERING SERVICES PRIVATE BAG X015 DOHNE ADI STUTTERHEIM 4930			



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)

OCTOBER 2024
(DATE APPROVED)

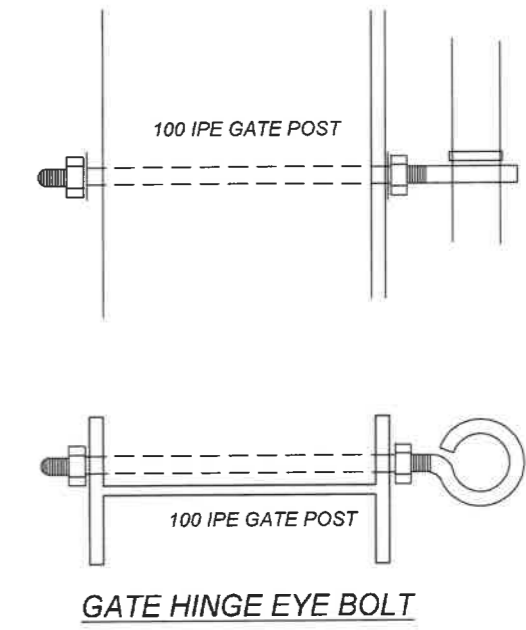
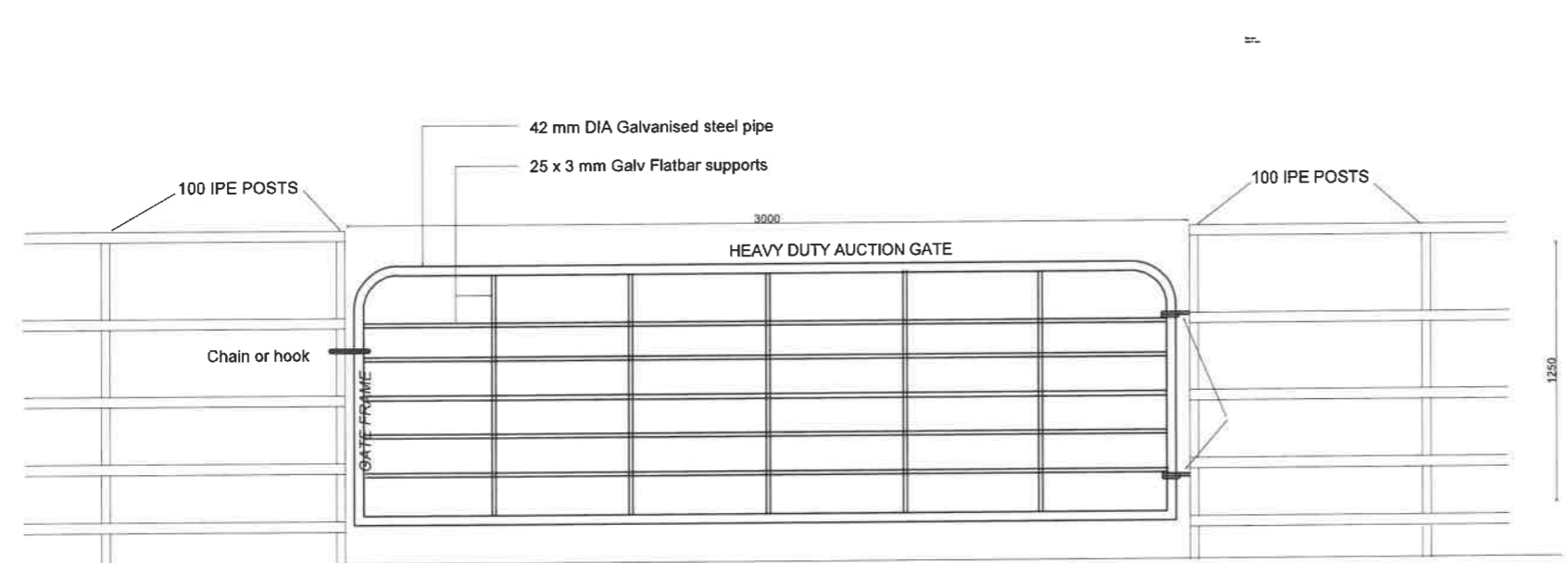
**DEPARTMENT OF RURAL DEVELOPMENT AND AGRARIAN REFORM
PROVINCE OF THE EASTERN CAPE**

ENGINEERING SERVICES
PRIVATE BAG X015
DOHNE ADI
STUTTERHEIM
4930

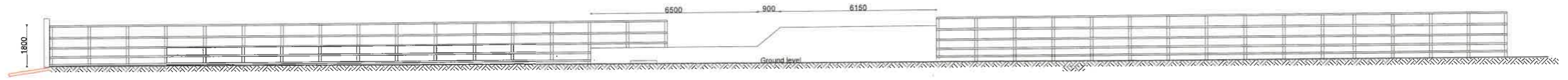
**STANDARD PLUNGE DIP
(STEEL)**

SITE LAYOUT PLAN

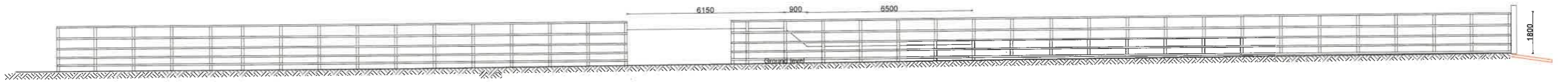
SCALE NTS	INDEX NO. SCMM-03/22/01
A3 ORIGINAL	PLAN NO. SHEET 1 OF 9



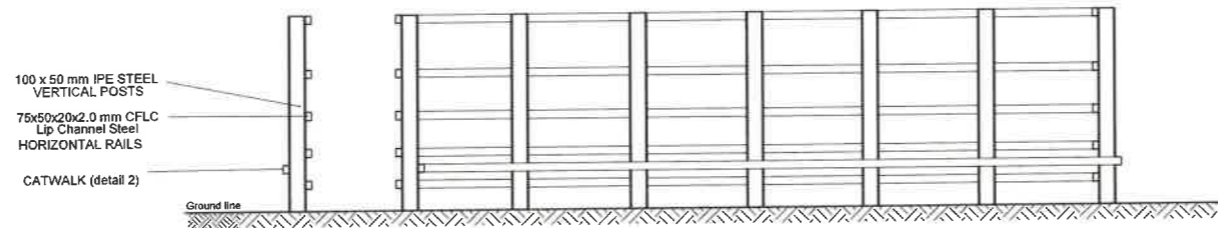
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					NTS	SCMM0-03/22/02
		OCTOBER 2024 (DATE APPROVED)	ENGINEERING SERVICES PRIVATE BAG X015 DOHNE ADI STUTTERHEIM 4930	AUCTION GATES	A3 ORIGINAL	PLAN NO. SHEET 2 OF 9



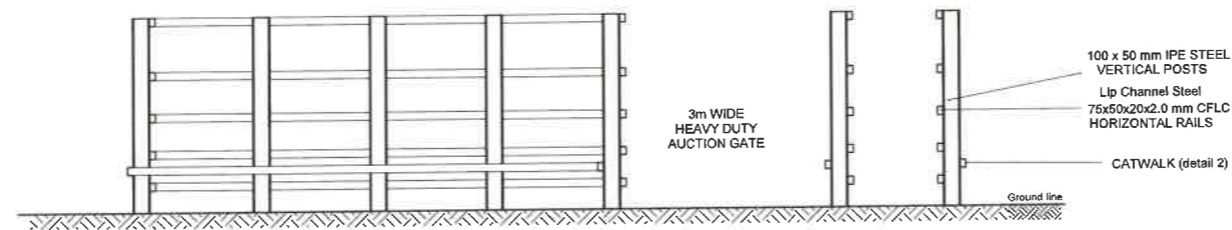
NORTH ELEVATION



SOUTH ELEVATION

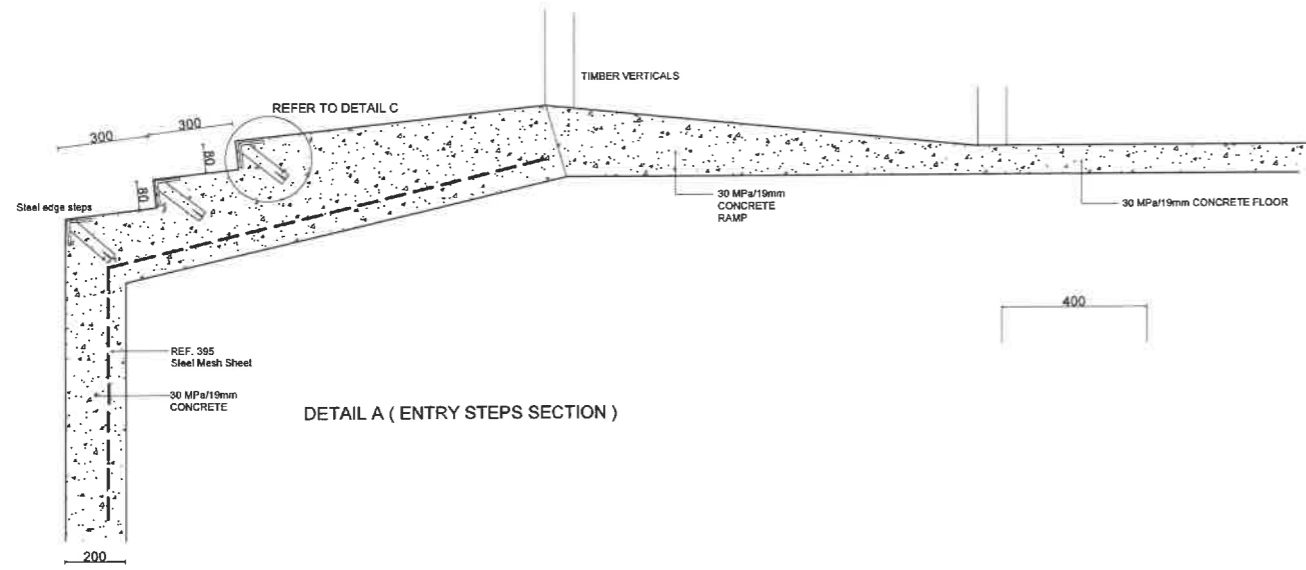


WEST ELEVATION

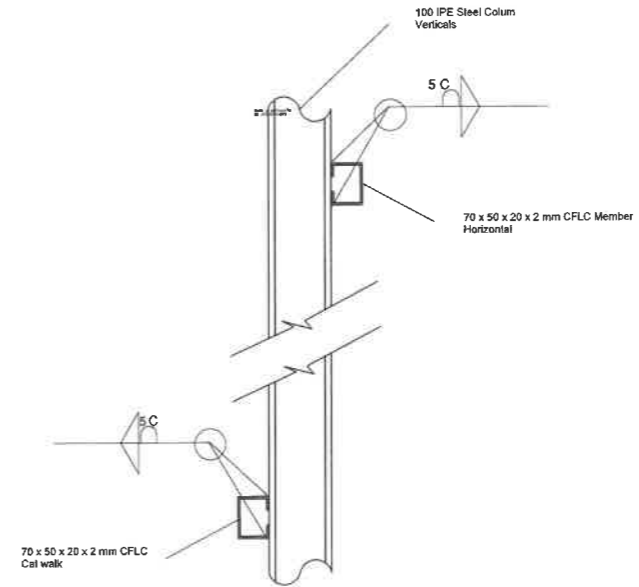


EAST ELEVATION

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

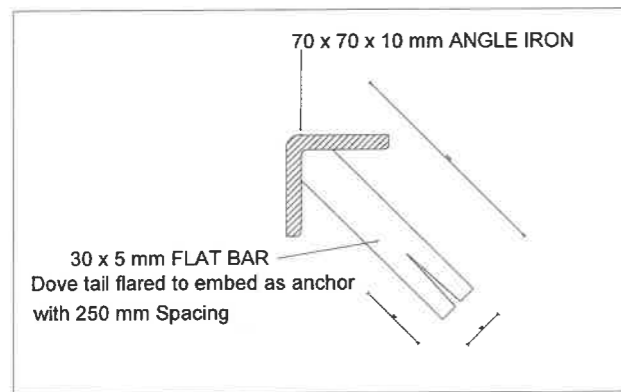


DETAIL A (ENTRY STEPS SECTION)

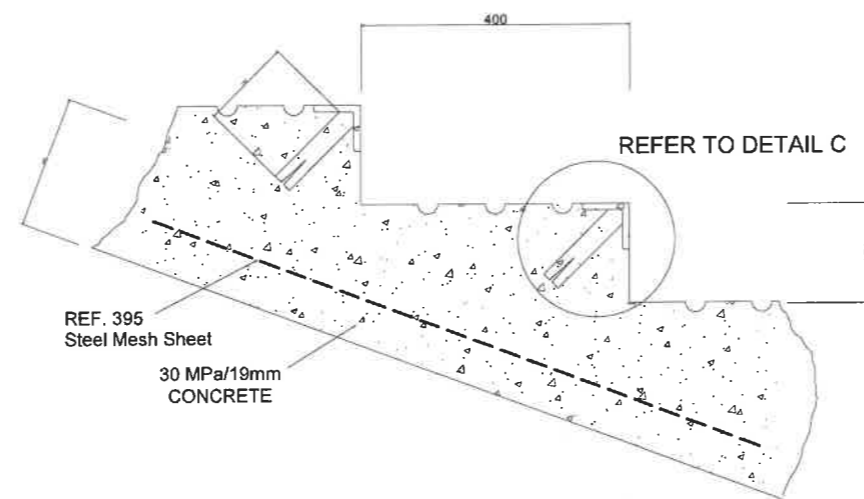


JOINT DETAIL HORIZONTAL MEMBERS

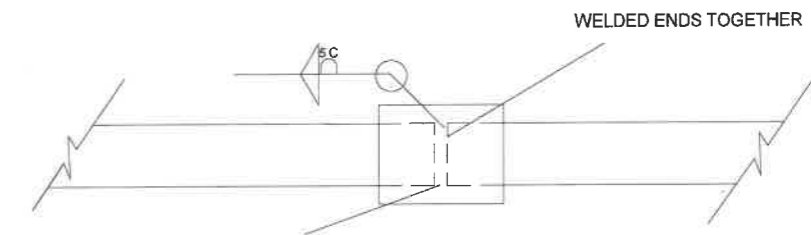
DETAIL D



DETAIL C



DETAIL B (EXIT STEPS SECTION)



NO.	SPECIAL NOTES:

S KONDLO
(CHIEF ENGINEER)

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)**

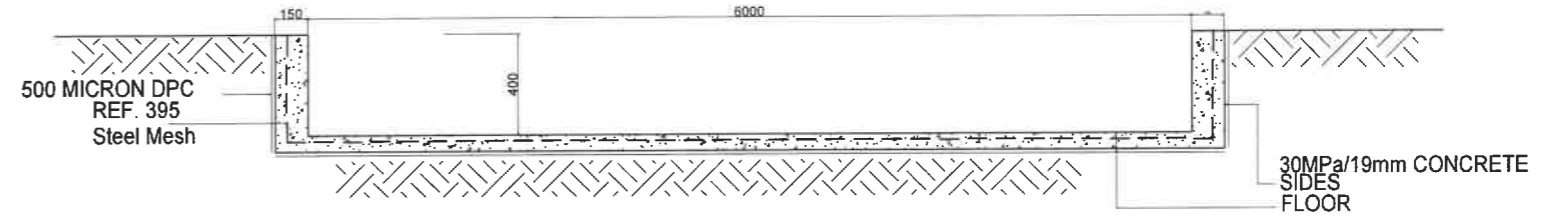
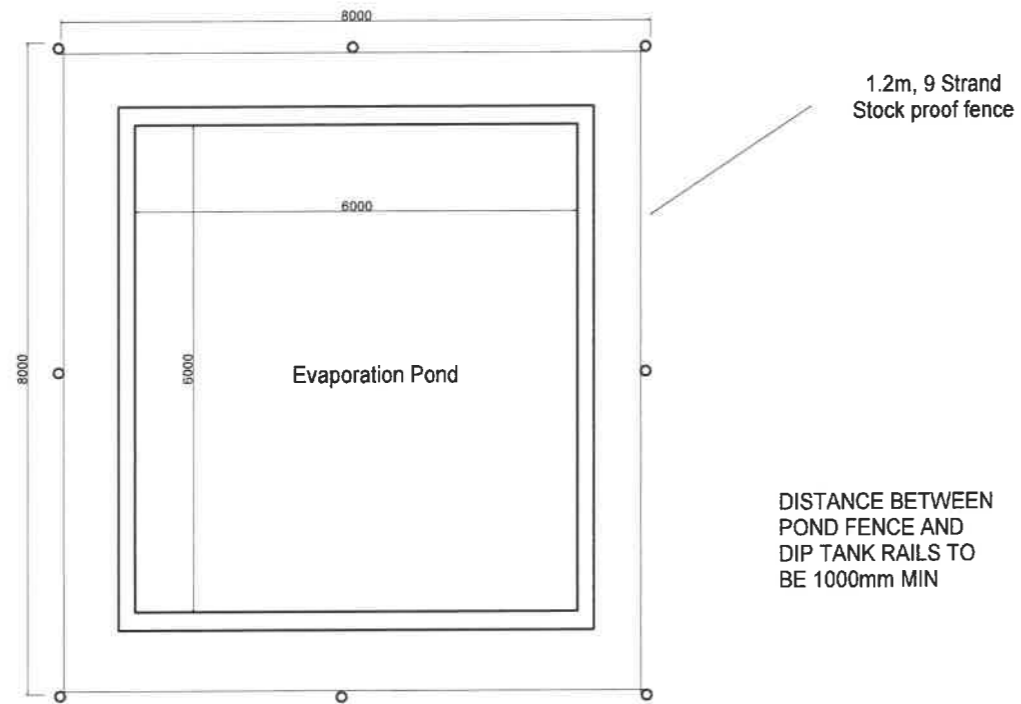
DETAILS

SCALE
NTS

A3 ORIGINAL

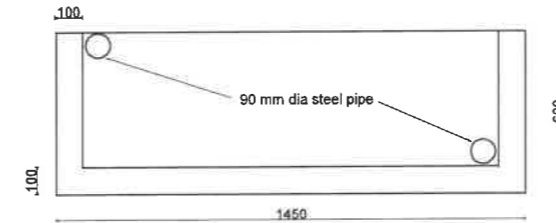
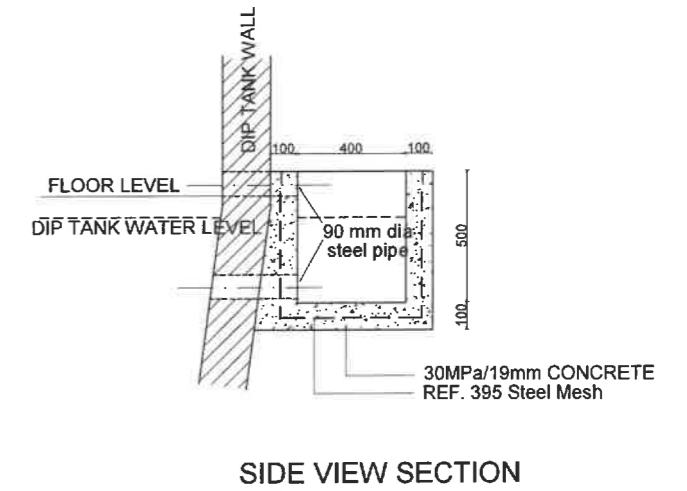
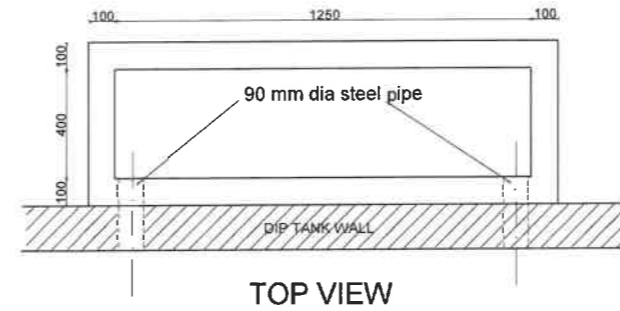
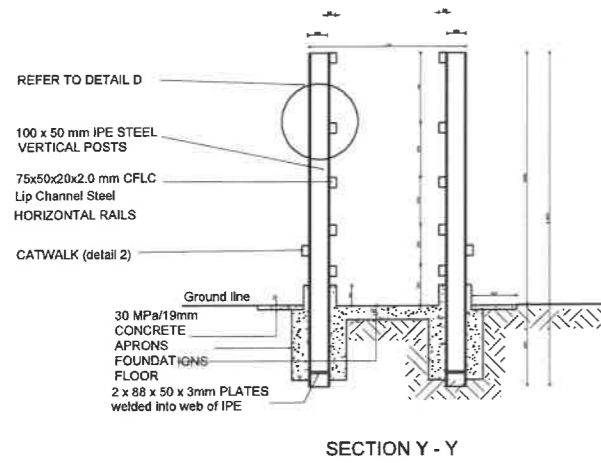
INDEX NO.
SCMM-02/22/04

PLAN NO.
SHEET 4 OF 9

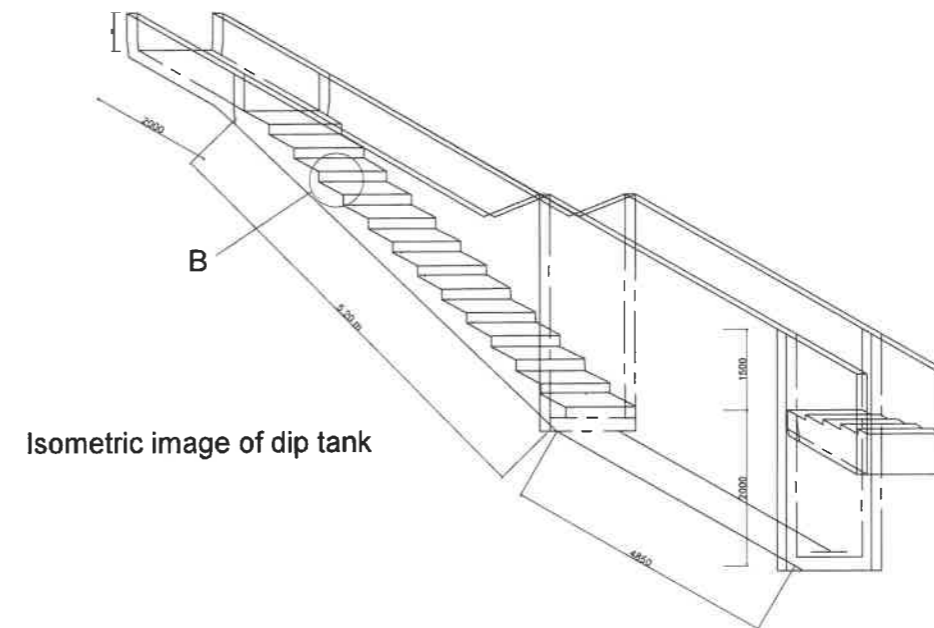
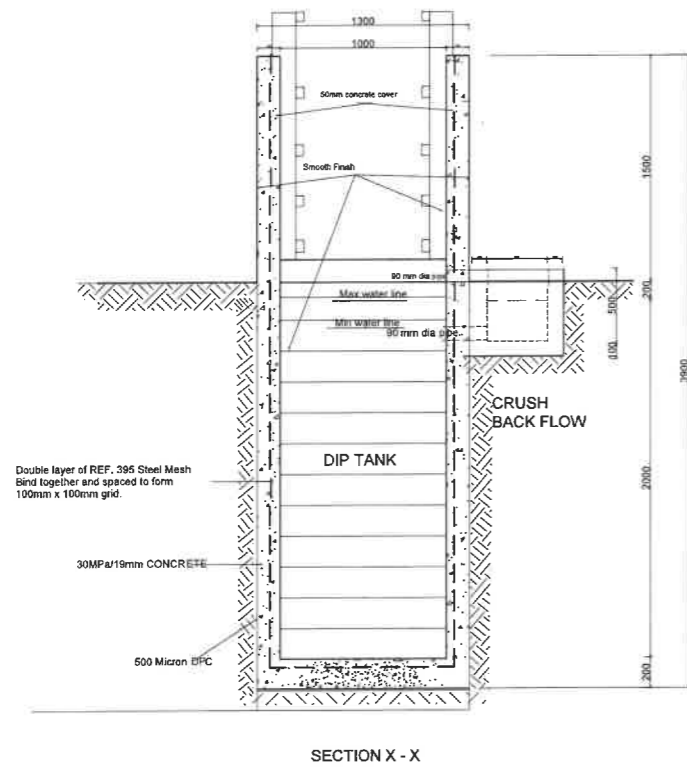


SECTION EVAPORATION POND

NO.	SPECIAL NOTES:	S. KONDLO (CHIEF ENGINEER)	DEPARTMENT OF RURAL DEVELOPMENT AND AGRARIAN REFORM PROVINCE OF THE EASTERN CAPE	STANDARD PLUNGE DIP (STEEL)	SCALE NTS	INDEX NO. SCMM-03/22/05
				EVAPORATION POND	A3 ORIGINAL	PLAN NO. SHEET 5 OF 9
		OCTOBER 2024 (DATE APPROVED)	ENGINEERING SERVICES PRIVATE BAG X015 DOHNE ADI STUTTERHEIM 4930			

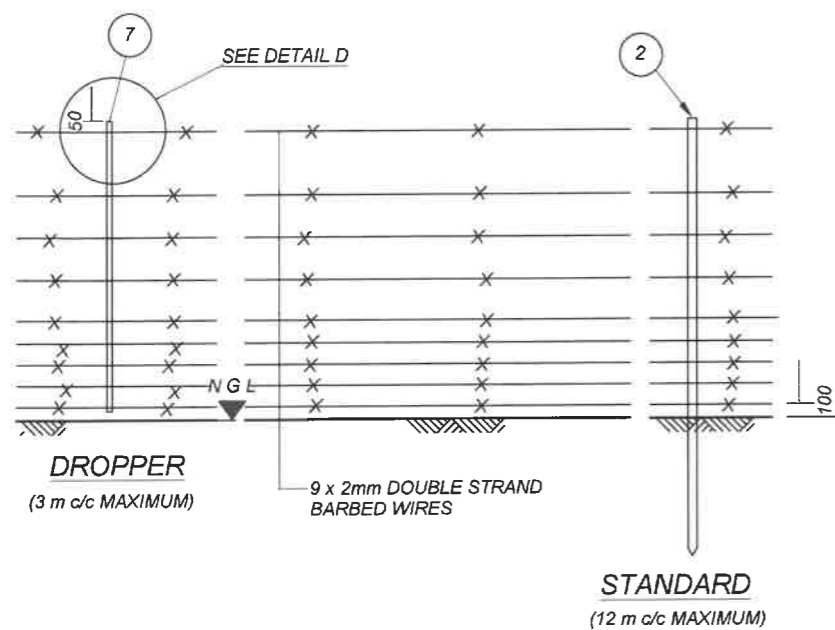


FRONT VIEW
DEBRIS COLLECTOR WEIR

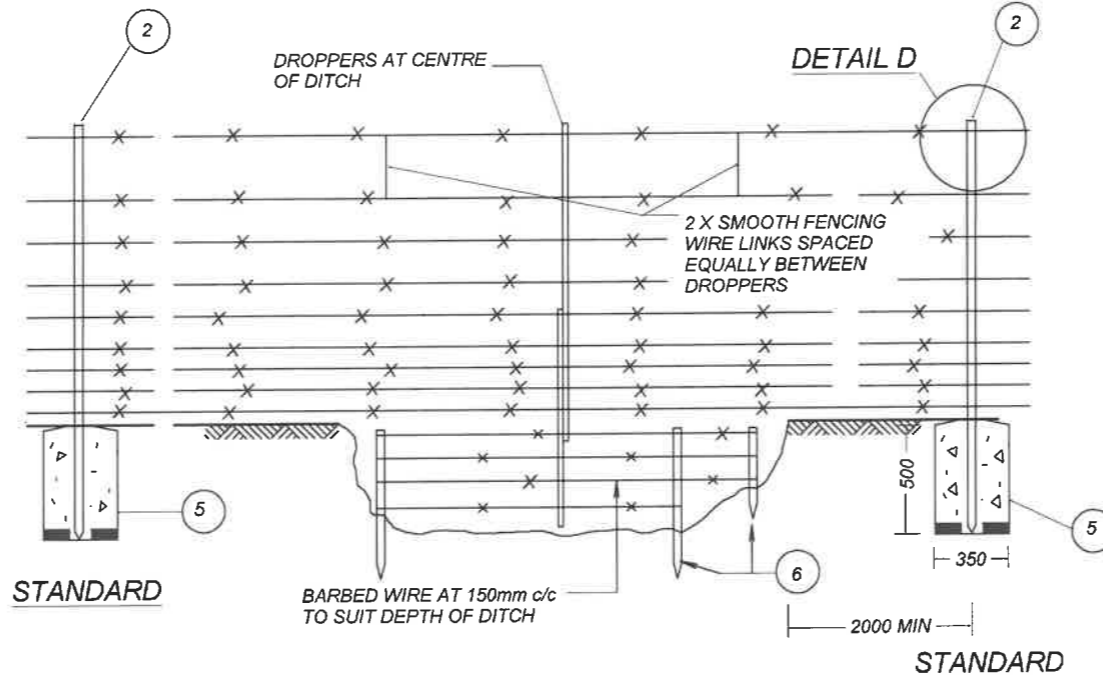


Isometric image of dip tank

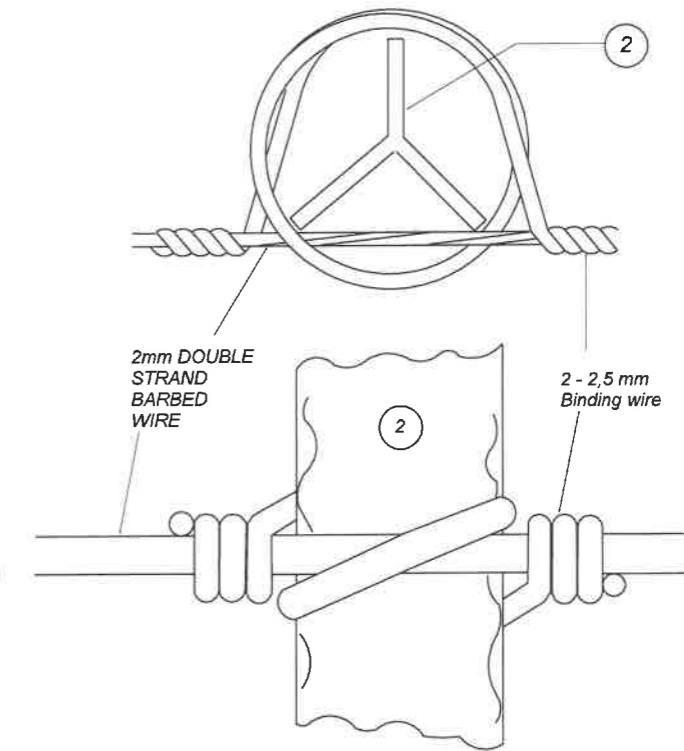
NO.	SPECIAL NOTES:	S. KONDLO (CHIEF ENGINEER)	DEPARTMENT OF RURAL DEVELOPMENT AND AGRARIAN REFORM PROVINCE OF THE EASTERN CAPE	STANDARD PLUNGE DIP (STEEL)	SCALE NTS	INDEX NO. SCMM-03/22/06
				SECTIONS	A3 ORIGINAL	PLAN NO. SHEET 6 OF 9
		OCTOBER 2024 (DATE APPROVED)	ENGINEERING SERVICES PRIVATE BAG X015 DOHNE ADI STUTTERHEIM 4930			



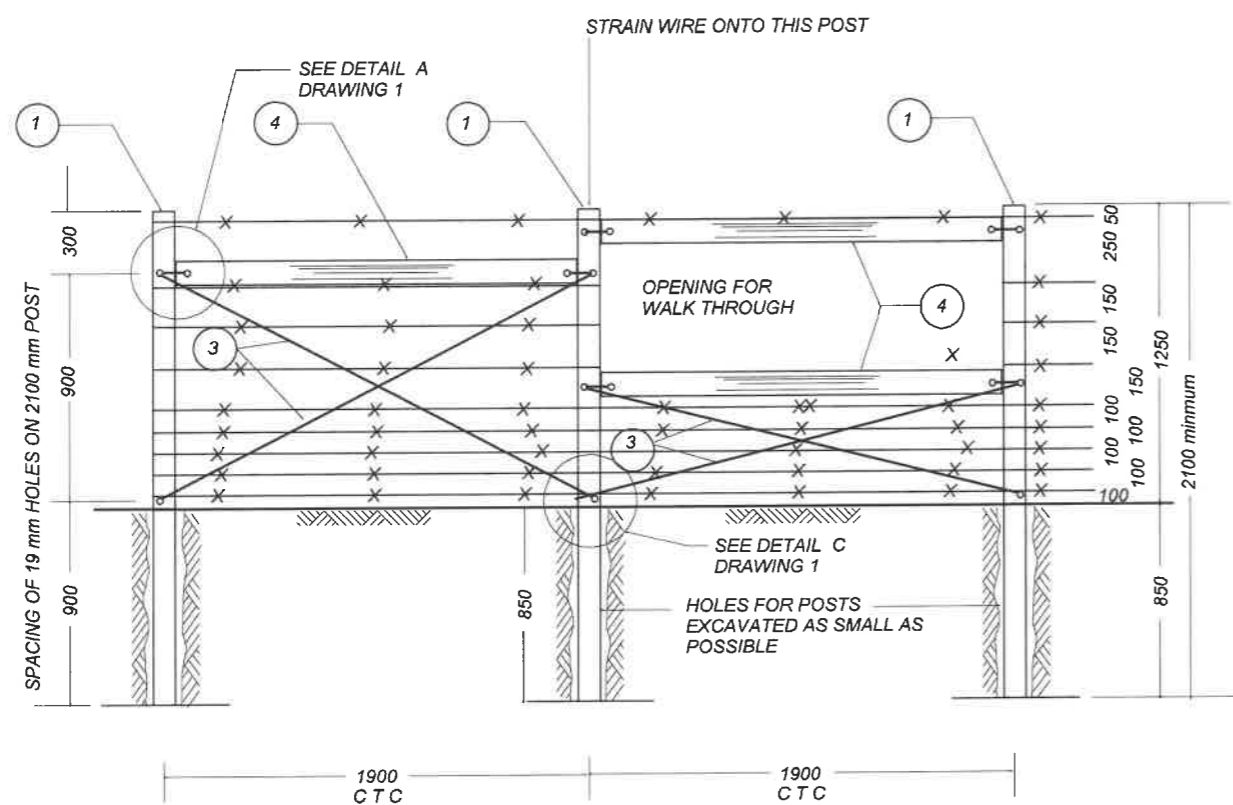
STOCK PROOF FENCE



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)

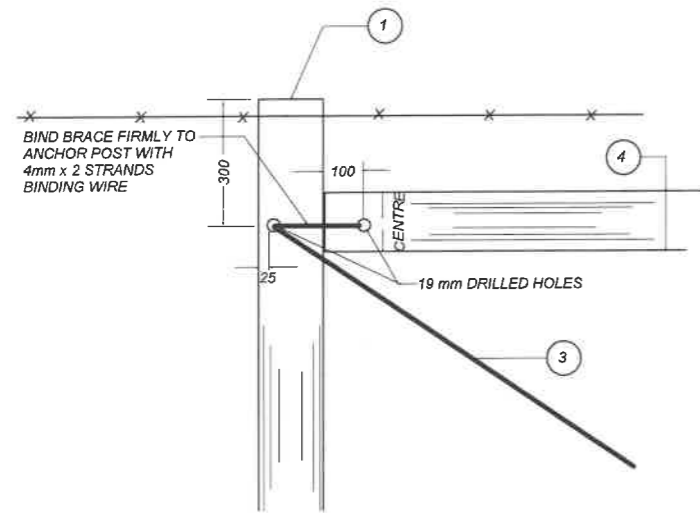
**DEPARTMENT OF RURAL DEVELOPMENT AND AGRARIAN REFORM
PROVINCE OF THE EASTERN CAPE**

ENGINEERING SERVICES
PRIVATE BAG X015
DOHNE ADI
STUTTERHEIM
4930

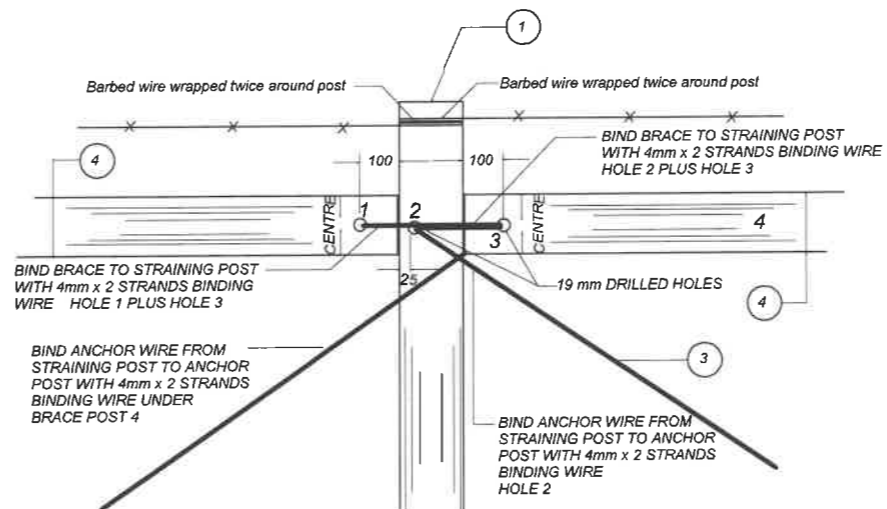
**STANDARD PLUNGE DIP
(STEEL)**

POND FENCE - 1

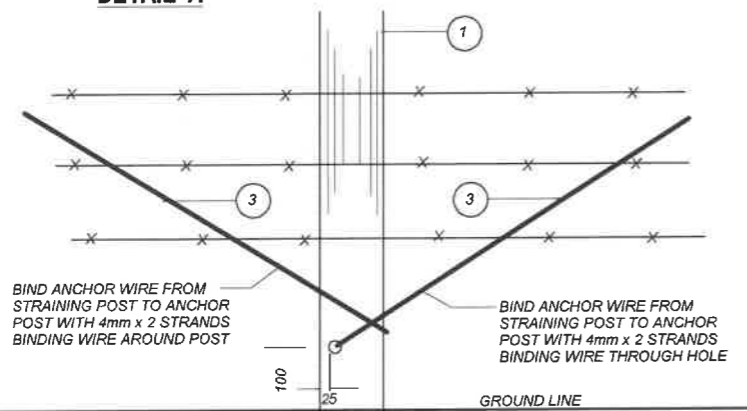
SCALE	INDEX NO.
NTS	SCMM-03/22/07
SCALE	INDEX NO.
A3 ORIGINAL	PLAN NO. SHEET 7 OF 9



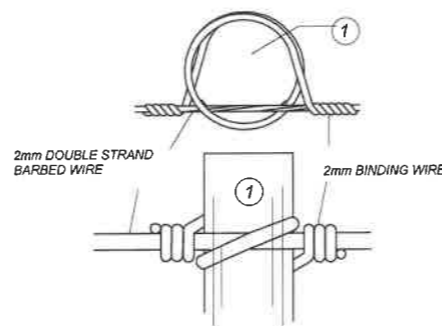
DETAIL A



DETAIL B



DETAIL C



DETAIL D

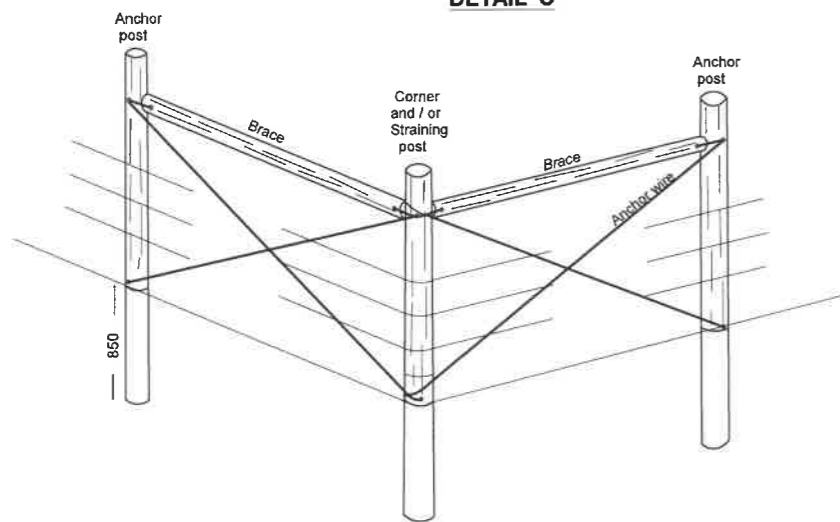
LEGEND

- 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

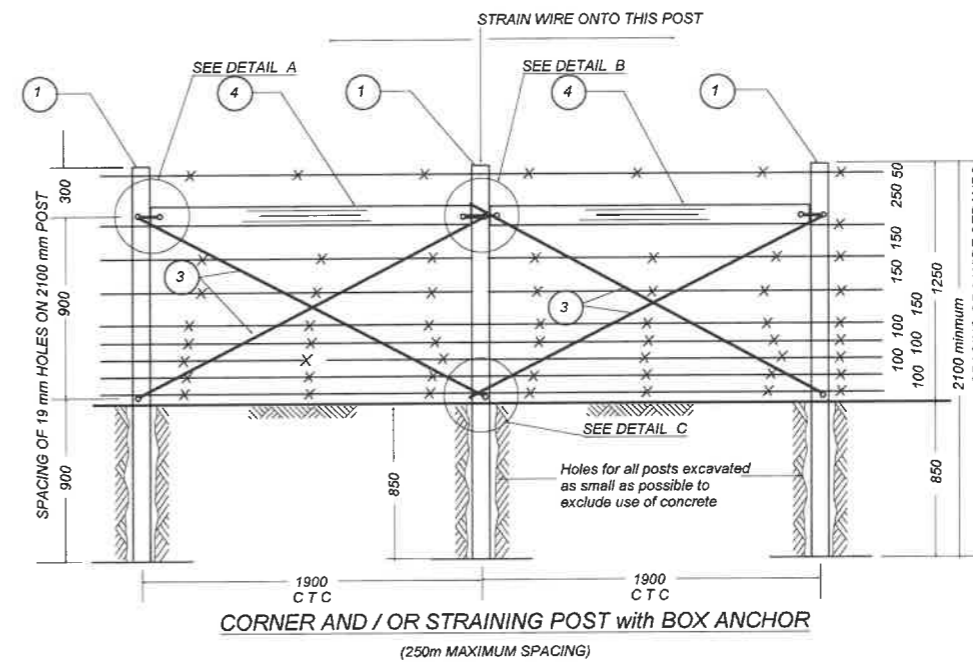
NOTES:

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

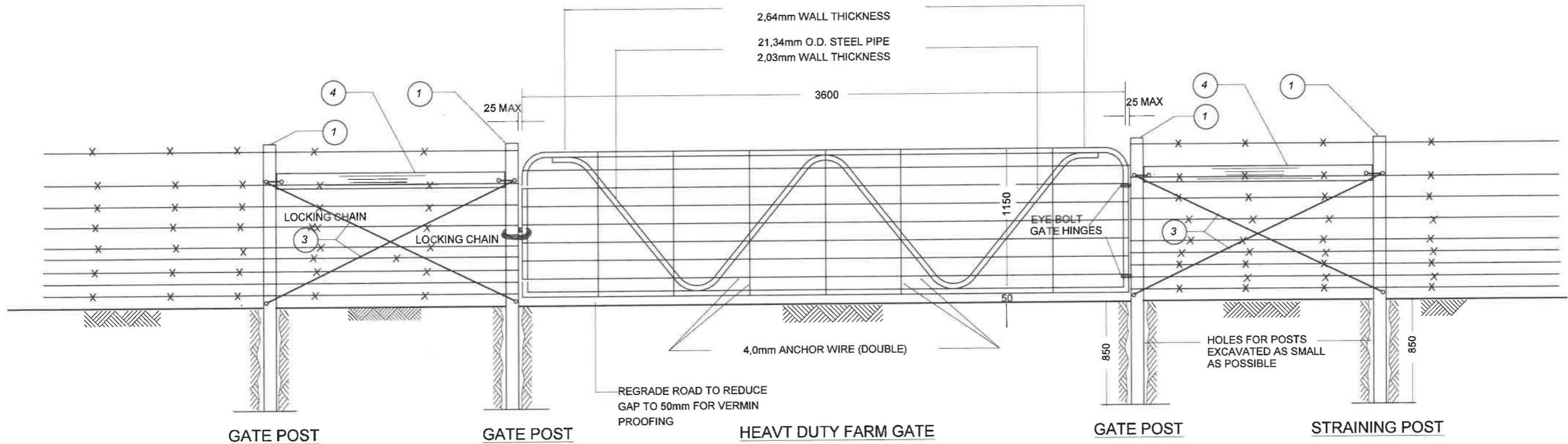
NGL NATURAL GROUND LEVEL



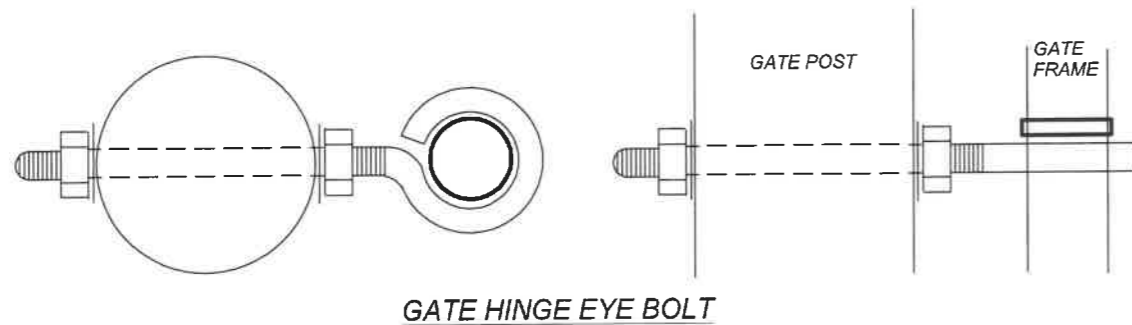
CORNER WITH BOX ANCHOR



NO.	SPECIAL NOTES:	S KONDLO (CHIEF ENGINEER)	DEPARTMENT OF RURAL DEVELOPMENT AND AGRARIAN REFORM PROVINCE OF THE EASTERN CAPE	STANDARD PLUNGE DIP (STEEL)	SCALE	INDEX NO.			
					NTS	SCMM-03/22/08			
					OCTOBER 2024 (DATE APPROVED)	ENGINEERING SERVICES PRIVATE BAG X015 DOHNE ADI STUTTERHEIM 4930	POND FENCE - 2	A3 ORIGINAL	PLAN NO. SHEET 8 OF 9



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

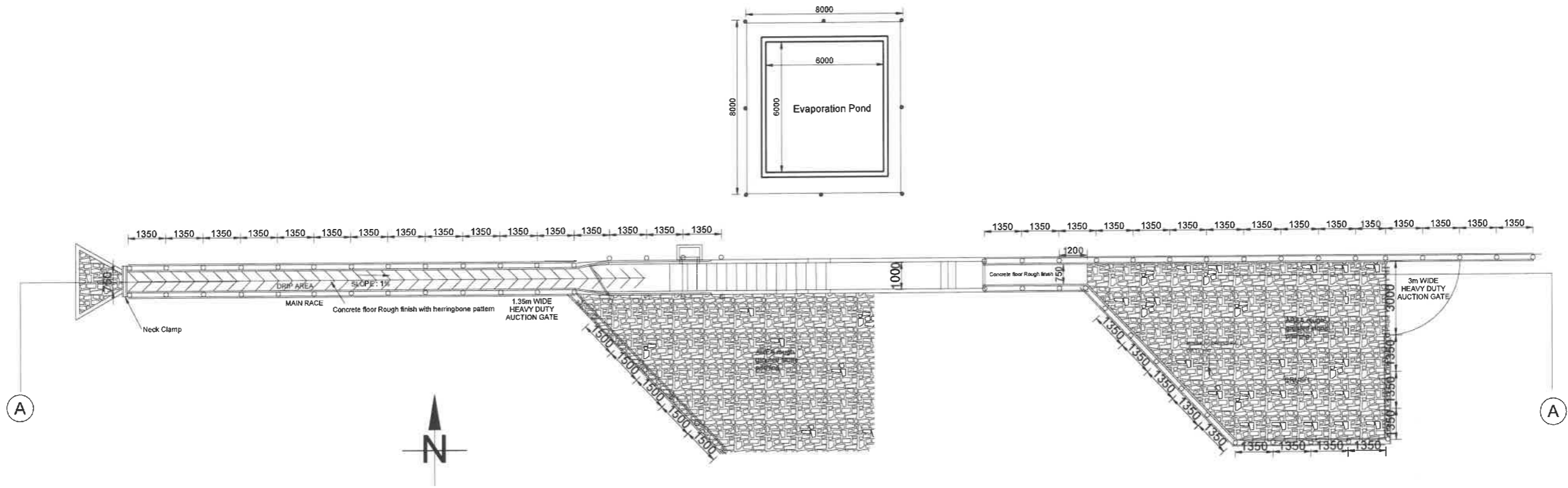
NGL NATURAL GROUND LEVEL

NOTES:

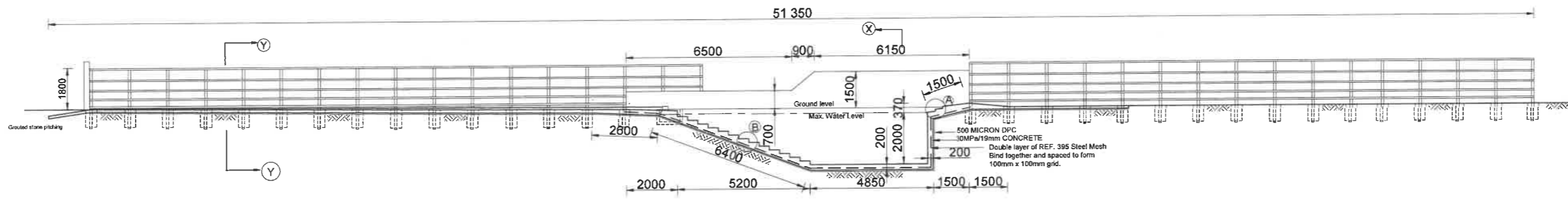
THIS DRAWING TO BE READ IN CONJUNCTION WITH THE PROJECT PARTICULAR SPECIFICATIONS FOR FENCES

NO.	SPECIAL NOTES:	S KONDLO (CHIEF ENGINEER)	DEPARTMENT OF RURAL DEVELOPMENT AND AGRARIAN REFORM PROVINCE OF THE EASTERN CAPE	STANDARD PLUNGE DIP (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)

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)

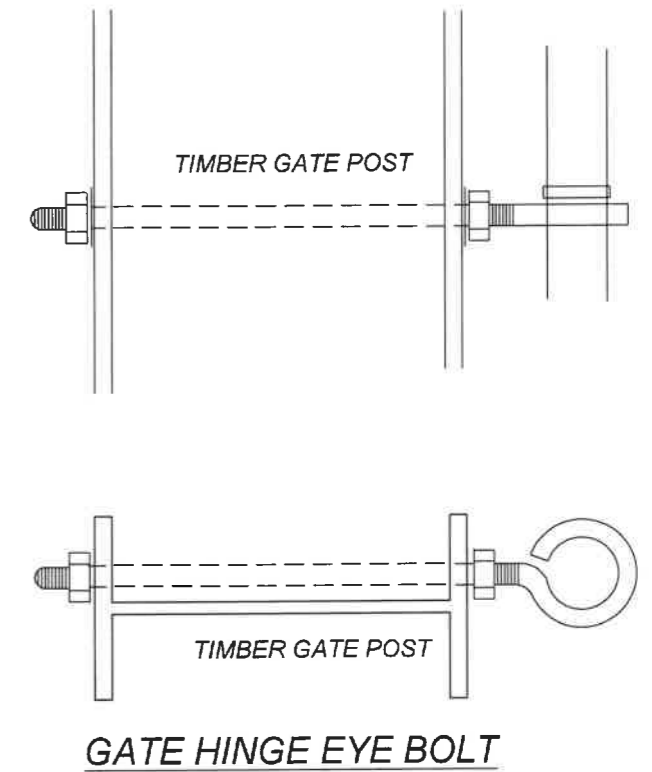
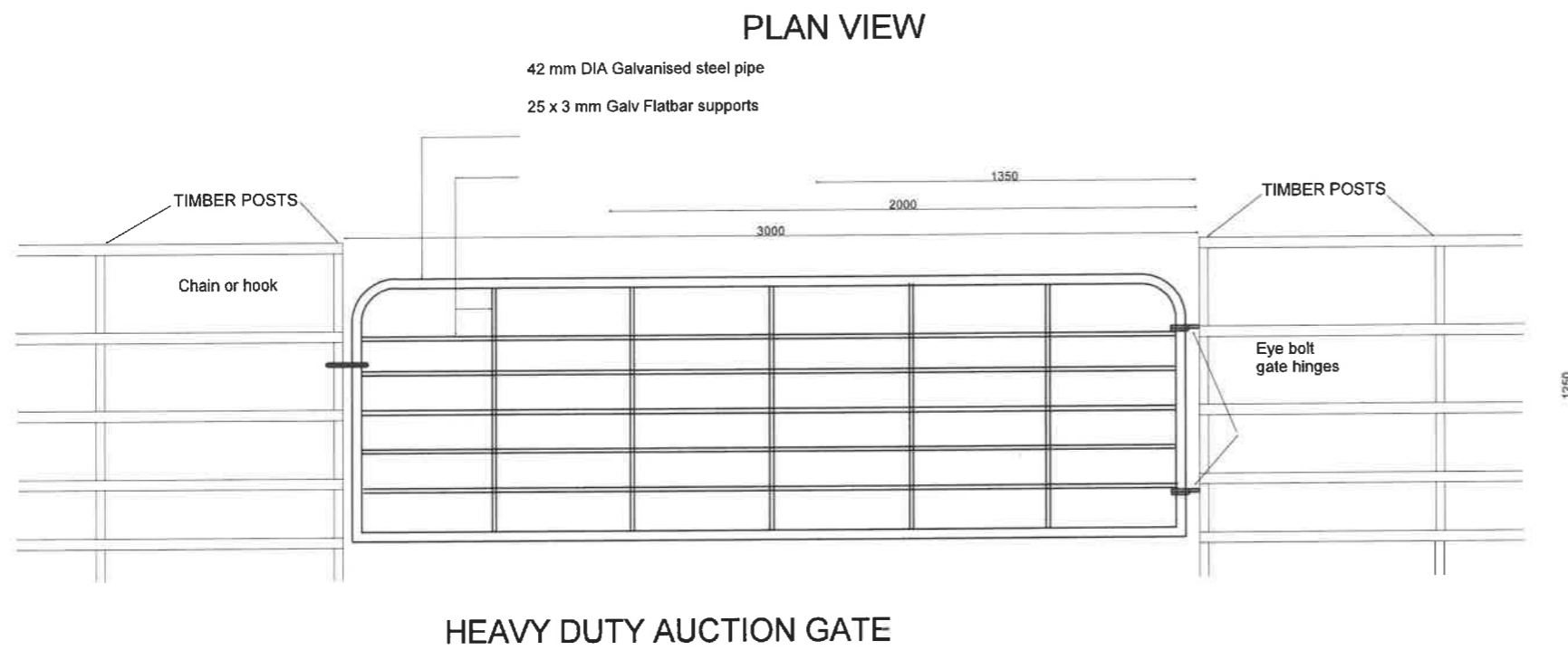
SITE LAYOUT PLAN

SCALE
NTS

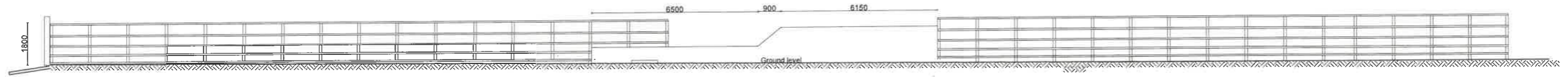
A3 ORIGINAL

INDEX NO.
SCMM-03/23/01

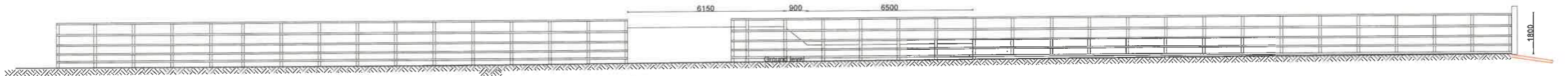
PLAN NO.
SHEET 1 OF 9



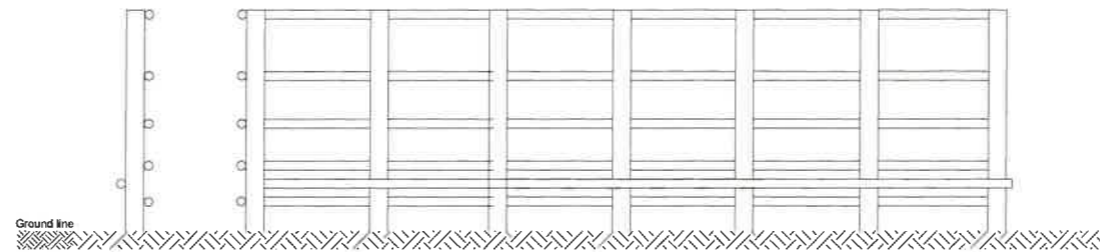
NO.	SPECIAL NOTES:		DEPARTMENT OF RURAL DEVELOPMENT AND AGRARIAN REFORM PROVINCE OF THE EASTERN CAPE ENGINEERING SERVICES PRIVATE BAG X015 DOHNE ADI STUTTERHEIM 4930	STANDARD PLUNGE DIP (TIMBER) AUCTION GATES	SCALE NTS A3 ORIGINAL	INDEX NO. SCMM-03/23/02 PLAN NO. SHEET 2 OF 9
		S KONDLO (CHIEF ENGINEER) OCTOBER 2024 (DATE APPROVED)				



NORTH ELEVATION

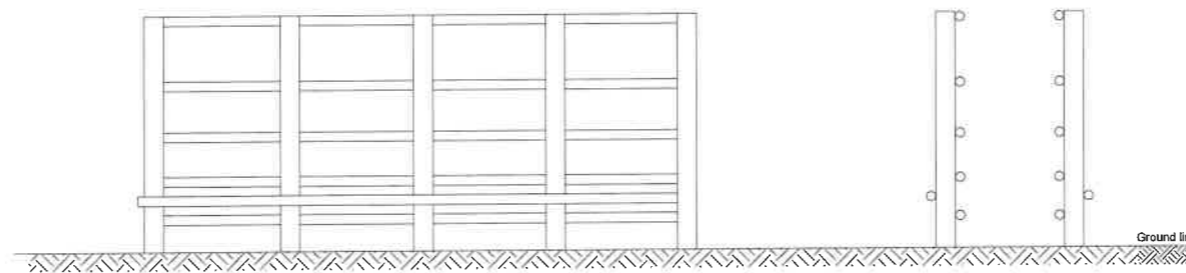


SOUTH ELEVATION



EAST ELEVATION

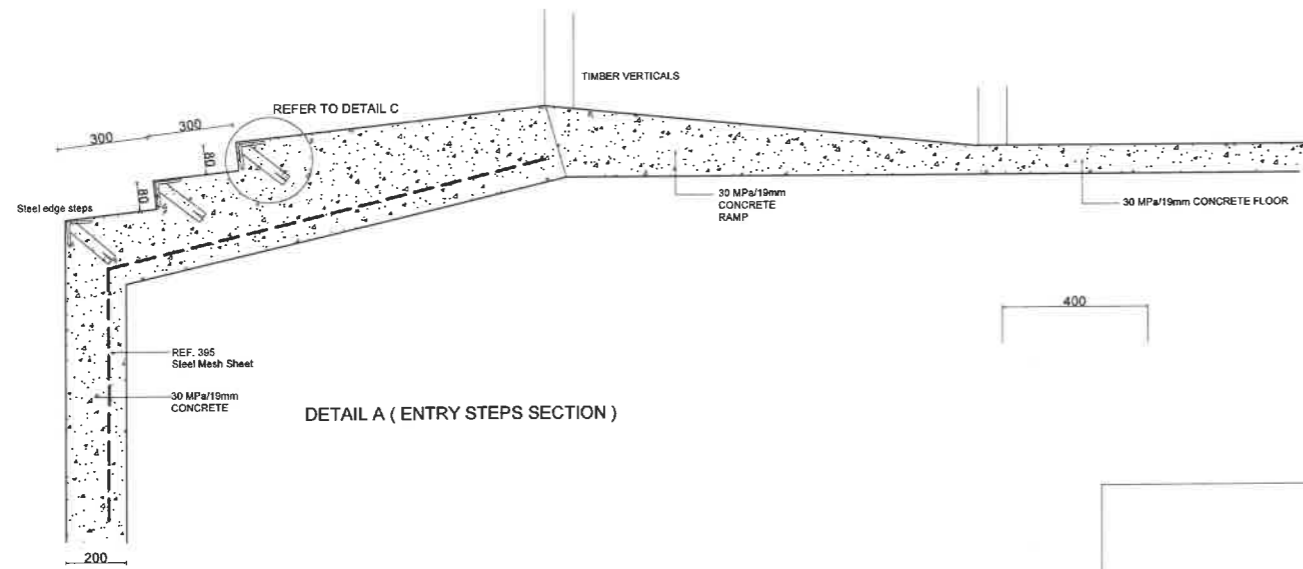
3m WIDE
HEAVY DUTY
AUCTION GATE



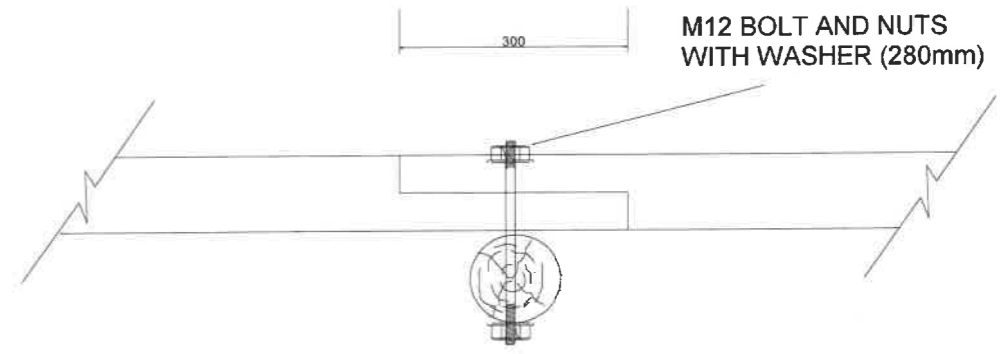
WEST ELEVATION

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	INDEX NO.
				ELEVATIONS	NTS	SCMM-03/23/03
		OCTOBER 2024 (DATE APPROVED)	ENGINEERING SERVICES PRIVATE BAG X015 DOHNE ADI STUTTERHEIM 4930		A3 ORIGINAL	PLAN NO. SHEET 3 OF 9

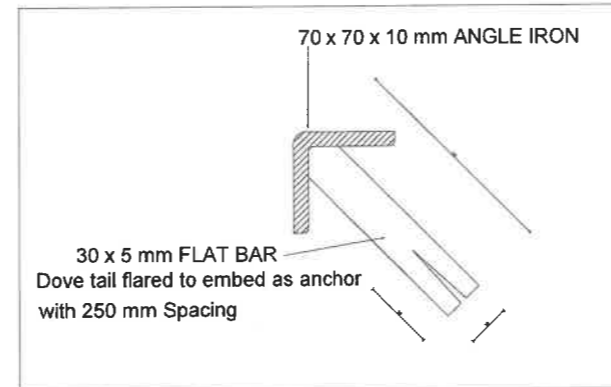


DETAIL A (ENTRY STEPS SECTION)

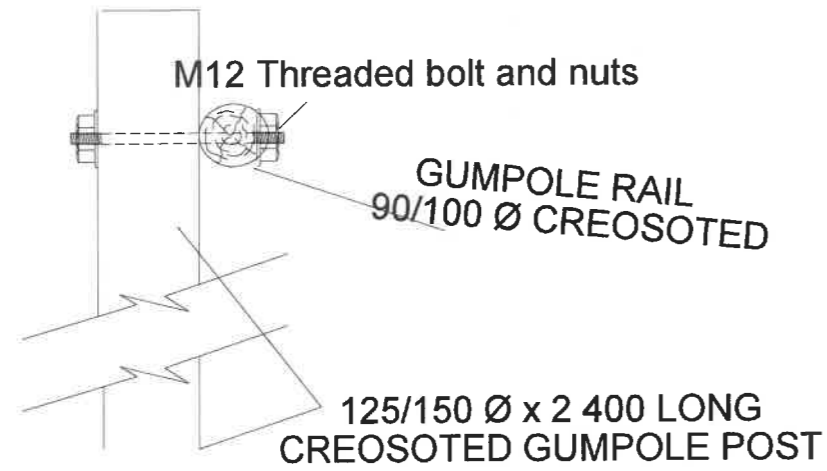


JOINT DETAIL

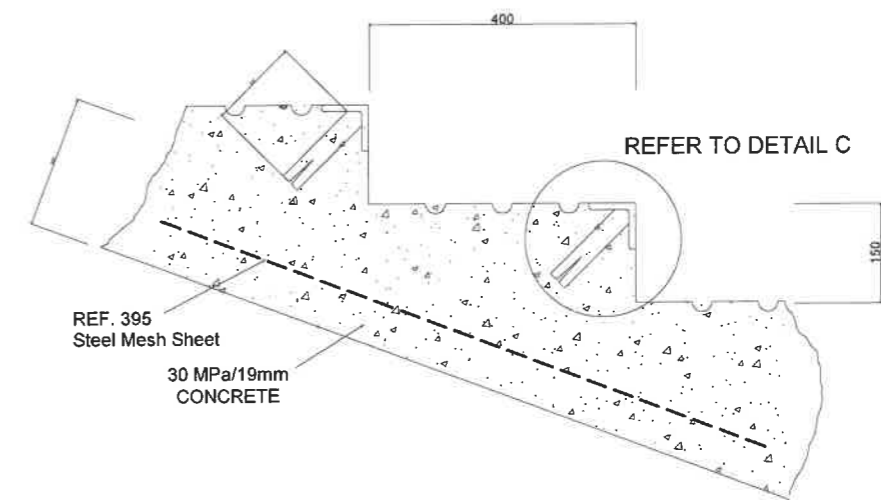
HORIZONTAL POLES



DETAIL C

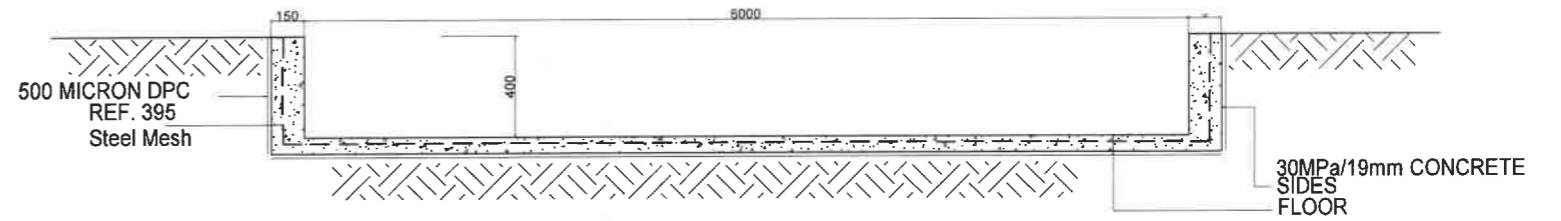
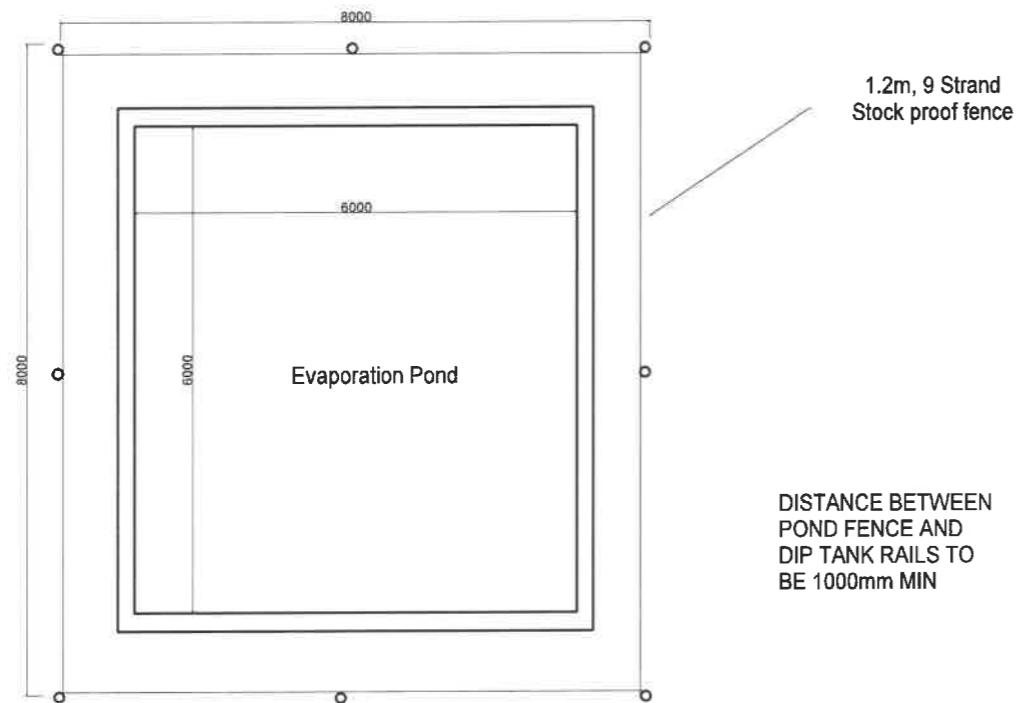


DETAIL D



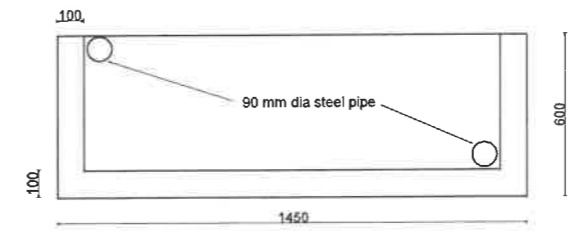
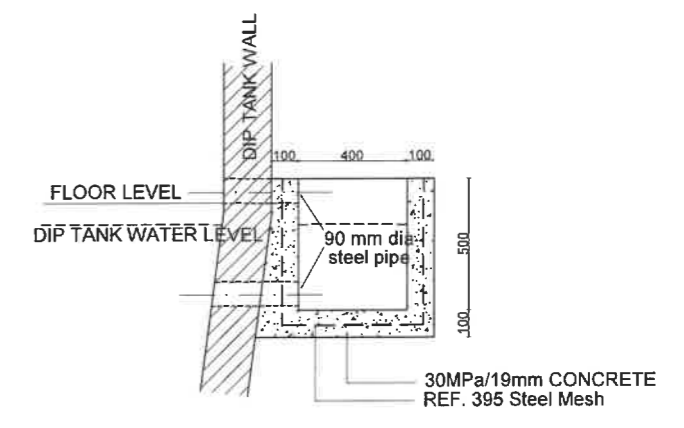
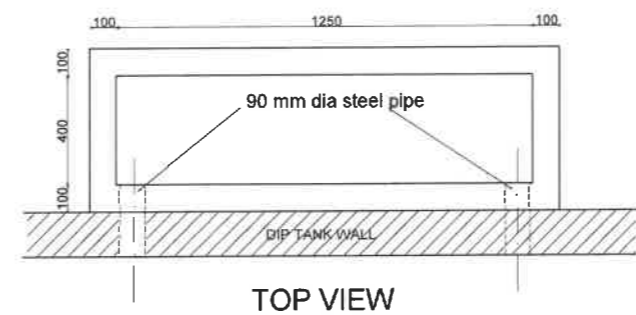
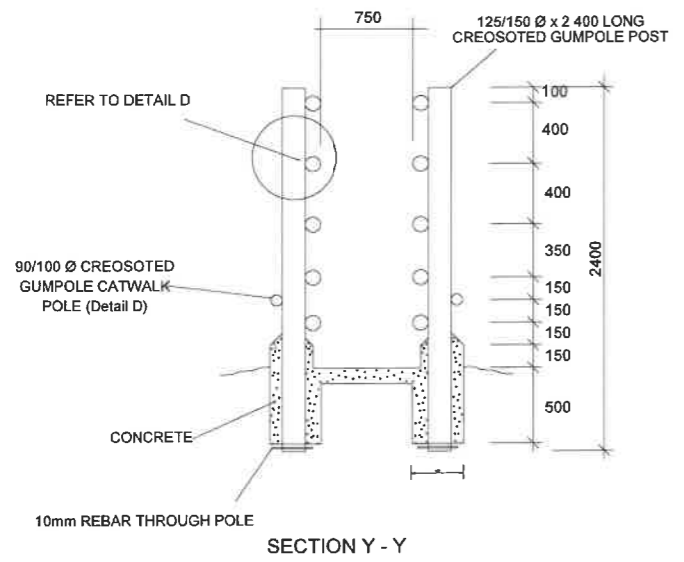
DETAIL B (EXIT STEPS SECTION)

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.
				DETAILS	NTS	SCMM-03/23/04
		OCTOBER 2024 (DATE APPROVED)	ENGINEERING SERVICES PRIVATE BAG X015 DOHNE ADI STUTTERHEIM 4930		A3 ORIGINAL	PLAN NO. SHEET 4 OF 9

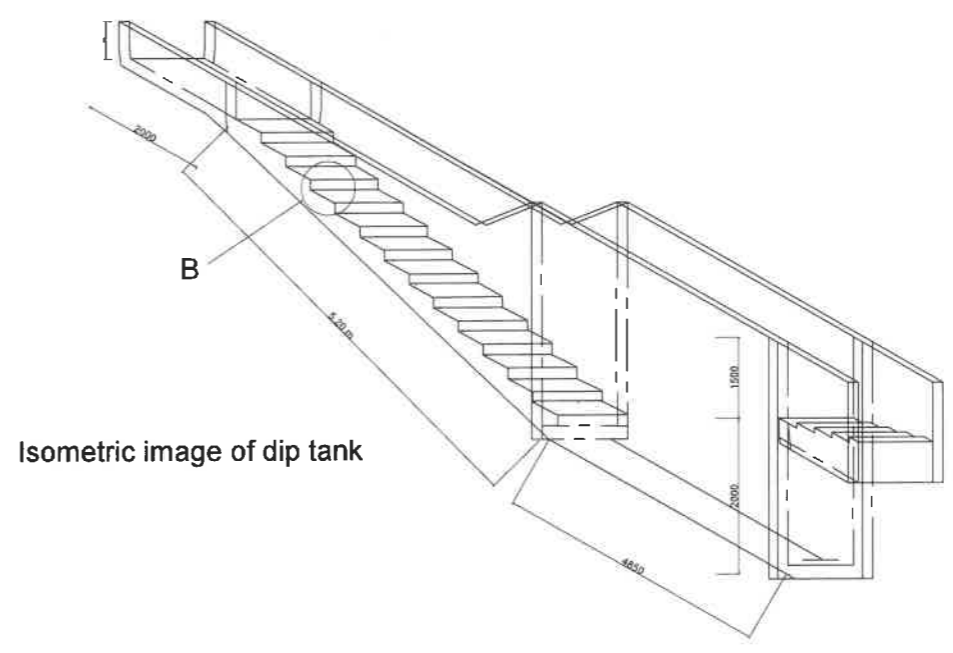


SECTION EVAPORATION POND

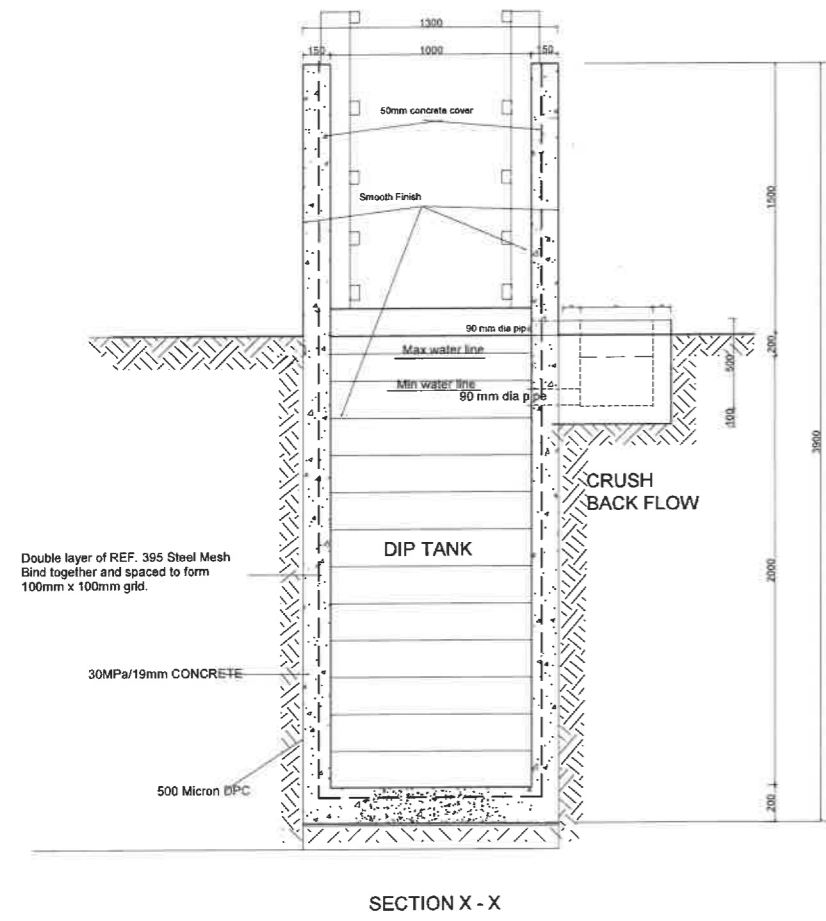
NO.	SPECIAL NOTES:	S KONDLO (CHIEF ENGINEER)	DEPARTMENT OF RURAL DEVELOPMENT AND AGRARIAN REFORM PROVINCE OF THE EASTERN CAPE	STANDARD PLUNGE DIP (TIMBER)	SCALE NTS	INDEX NO. SCMM-03/23/05
				EVAPORATION POND	A3 ORIGINAL	PLAN NO. SHEET 5 OF 9
		OCTOBER 2024 (DATE APPROVED)	ENGINEERING SERVICES PRIVATE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



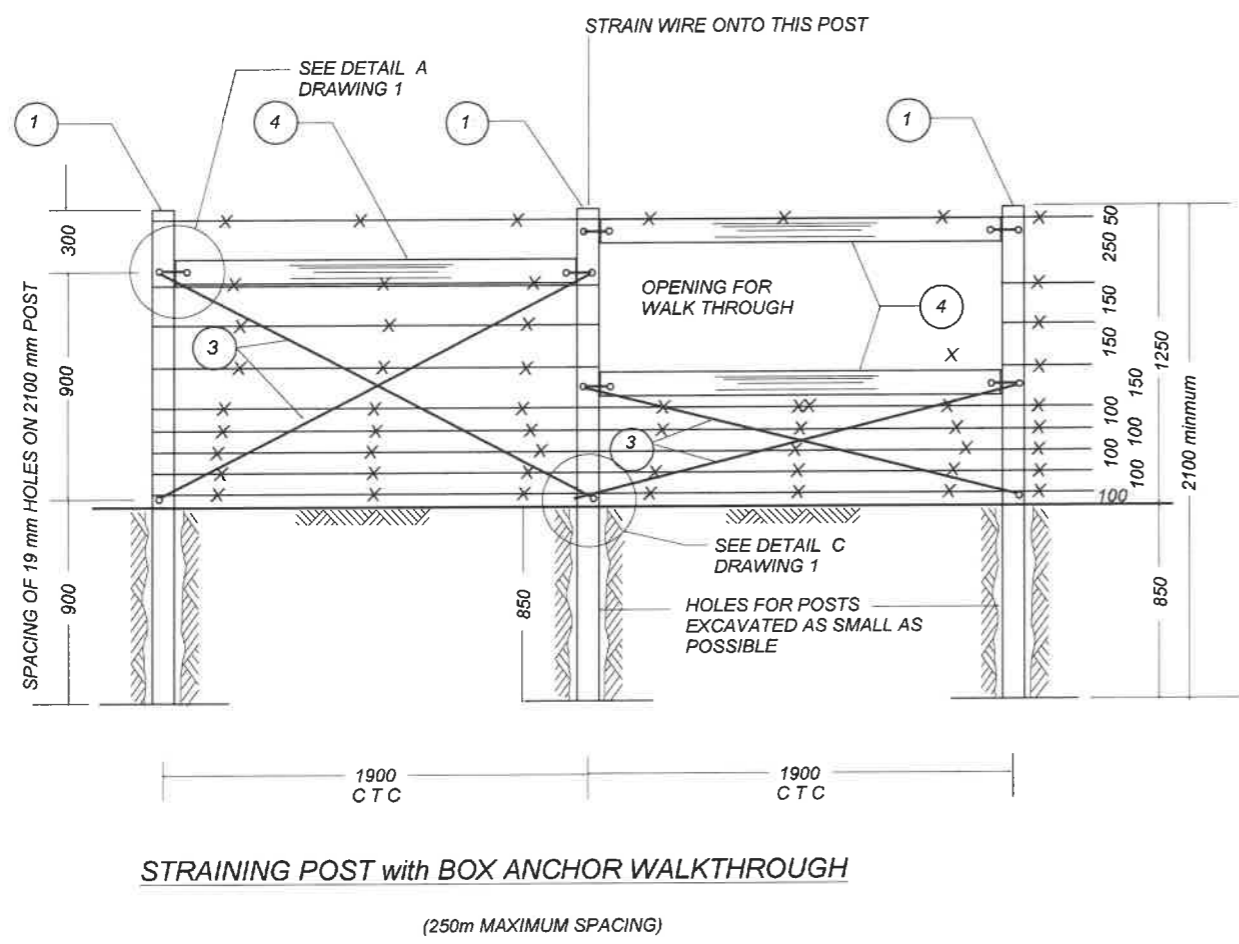
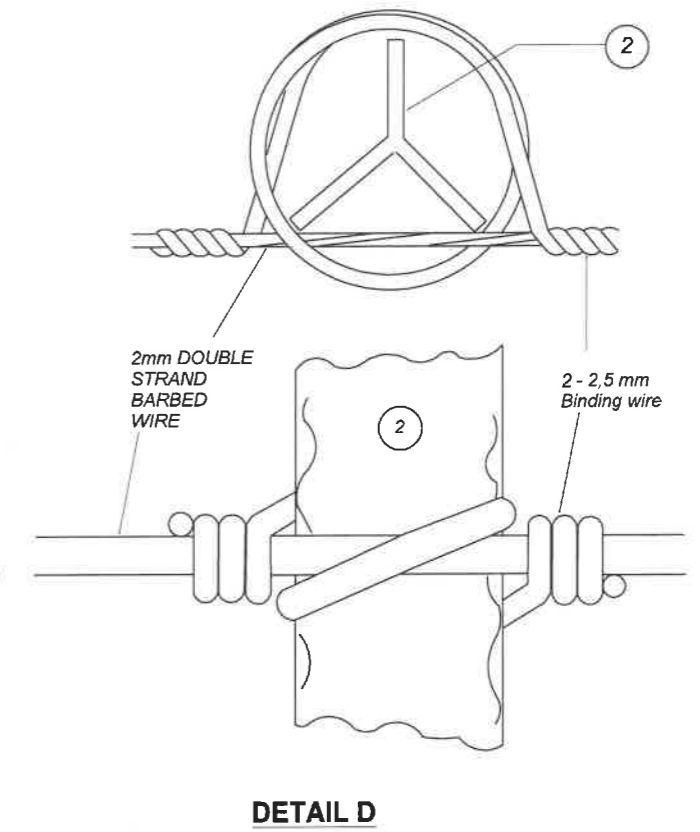
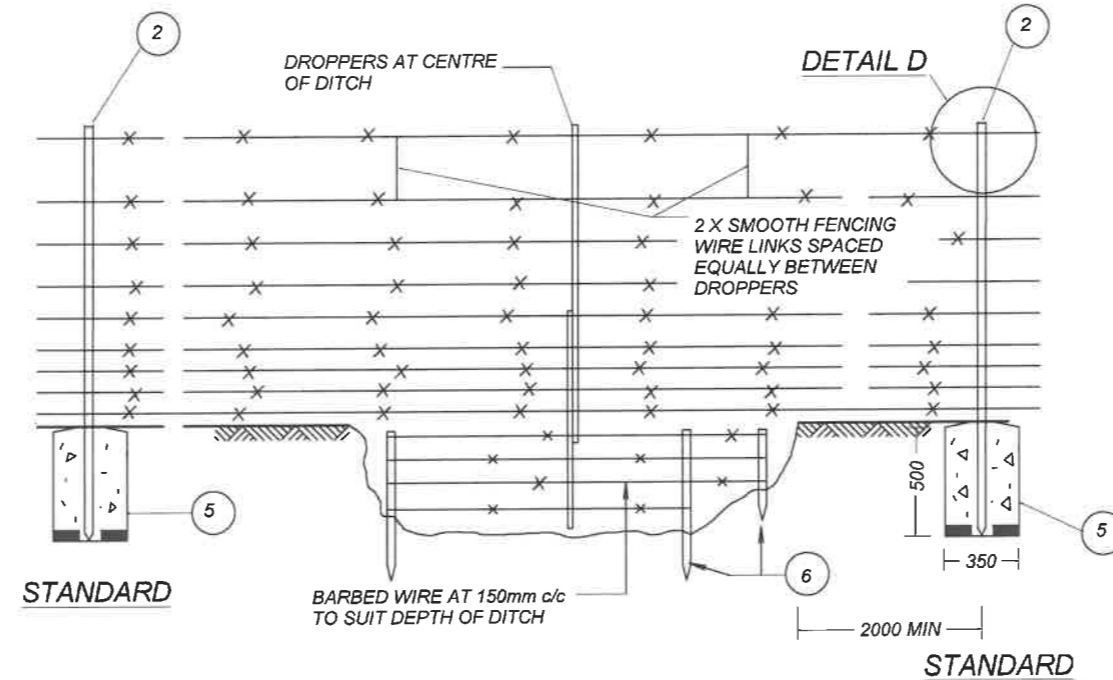
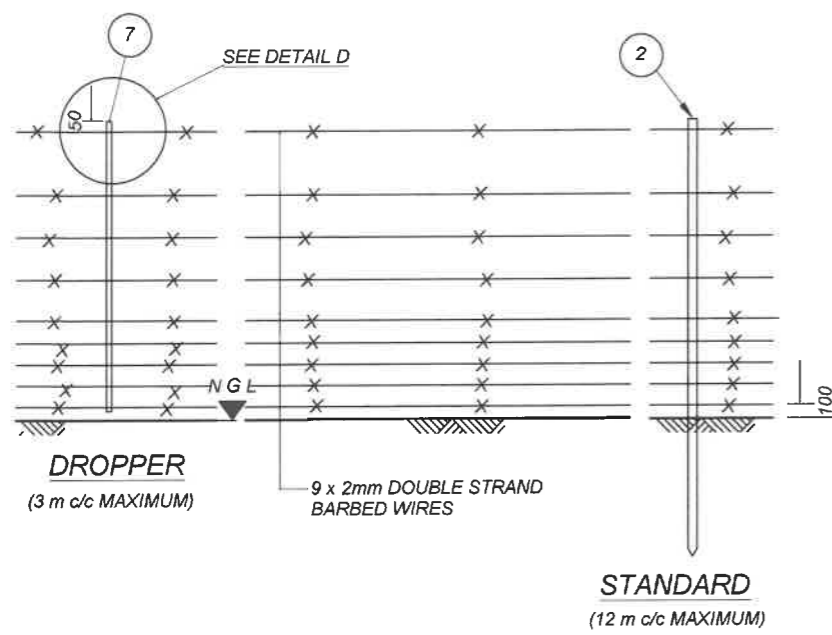
DEBRIS COLLECTOR WEIR



Isometric image of dip tank



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.
				SECTIONS		NTS	SCMM-03/23/06
		OCTOBER 2024 (DATE APPROVED)	ENGINEERING SERVICES PRIVATE BAG X015 DOHNE ADI STUTTERHEIM 4930			A3 ORIGINAL	PLAN NO. SHEET 6 OF 9



LEGEND

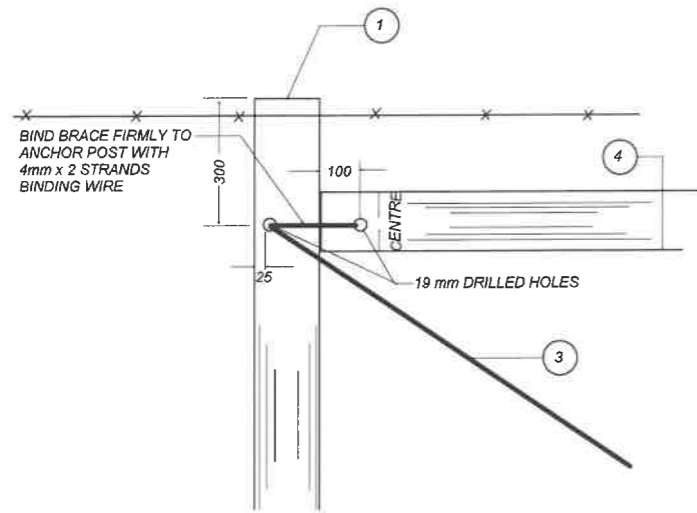
- 1 — 125 - 150mm TOP DIAMETER x 2100 mm TREATED TIMBER POST CORNER, STRAINING AND ANCHOR POSTS
- 2 — 2,0 kg/m x 1800 mm Y SECTION IRON STANDARD
- 3 — 4mm x 4 STRANDS TWISTED SOFT GALVANISED BINDING WIRE
- 4 — 100 - 125mm TOP DIAMETER x 1800 mm TREATED TIMBER POST BRACES IN BOX ANCHORS
- 5 — STANDARDS 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

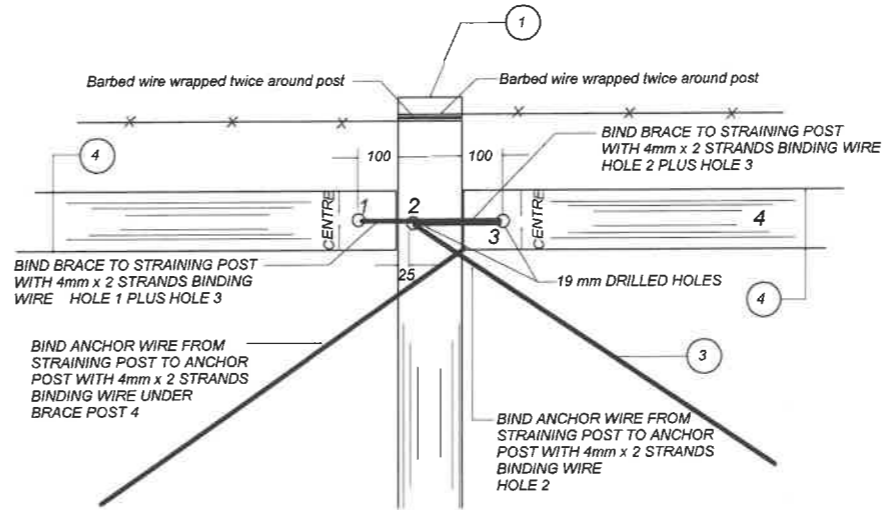
NOTES:

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

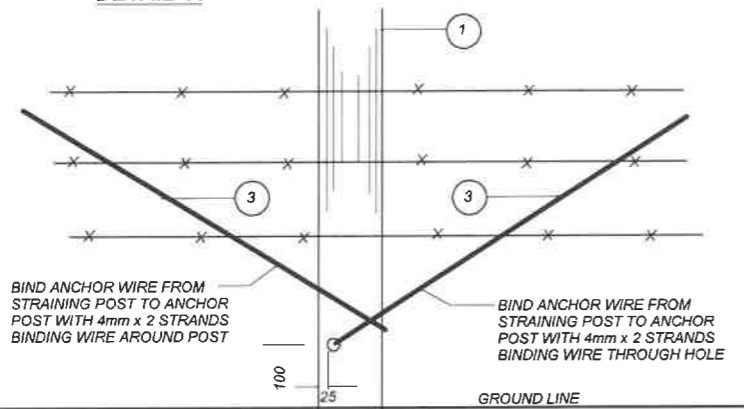
NO.	SPECIAL NOTES:	S KONDLO (CHIEF ENGINEER)	DEPARTMENT OF RURAL DEVELOPMENT AND AGRARIAN REFORM PROVINCE OF THE EASTERN CAPE	ENGINEERING SERVICES PRIVATE BAG X015 DOHNE ADI STUTTERHEIM 4930	STANDARD PLUNGE DIP (TIMBER)	SCALE	INDEX NO.
						NTS	SCMM-03/23/07
						A3 ORIGINAL	PLAN NO.
							SHEET 7 OF 9
		OCTOBER 2024 (DATE APPROVED)			POND FENCE - 1		



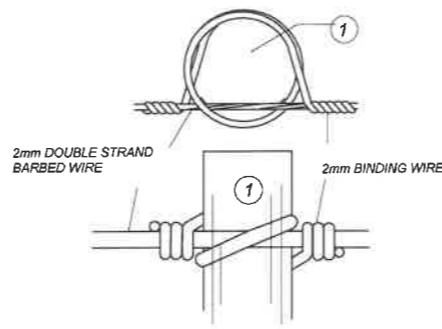
DETAIL A



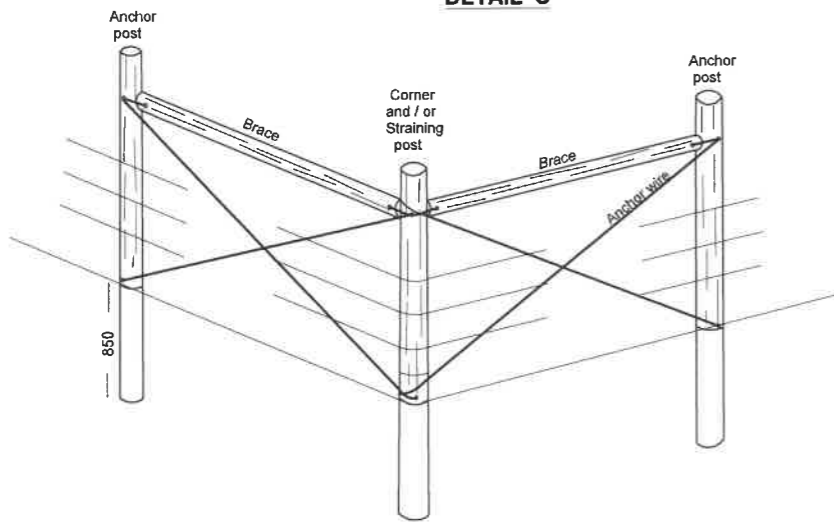
DETAIL B



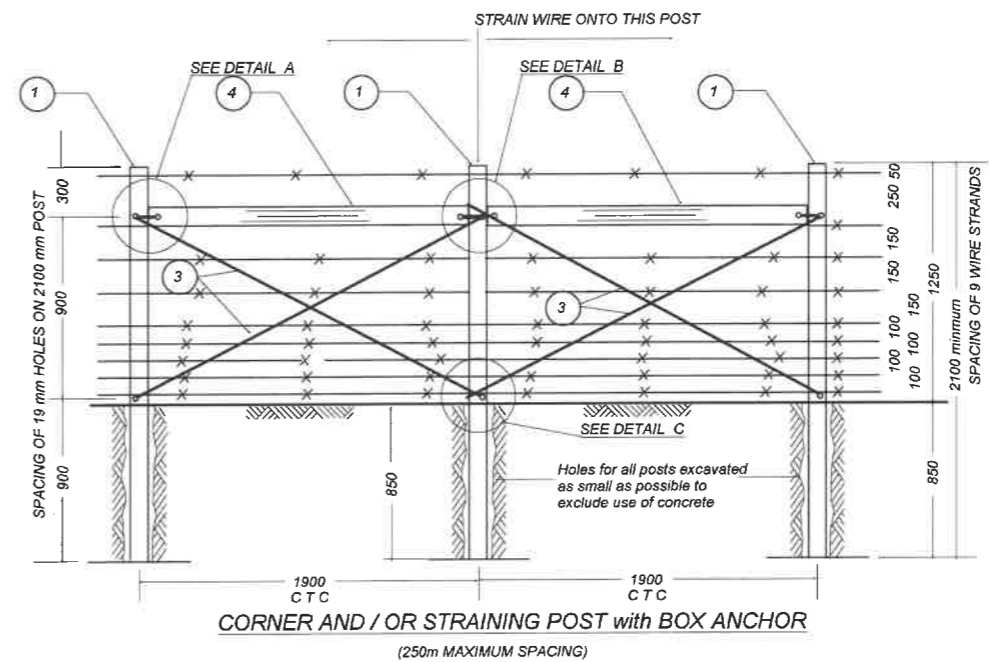
DETAIL C



DETAIL D



CORNER WITH BOX ANCHOR



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

LEGEND

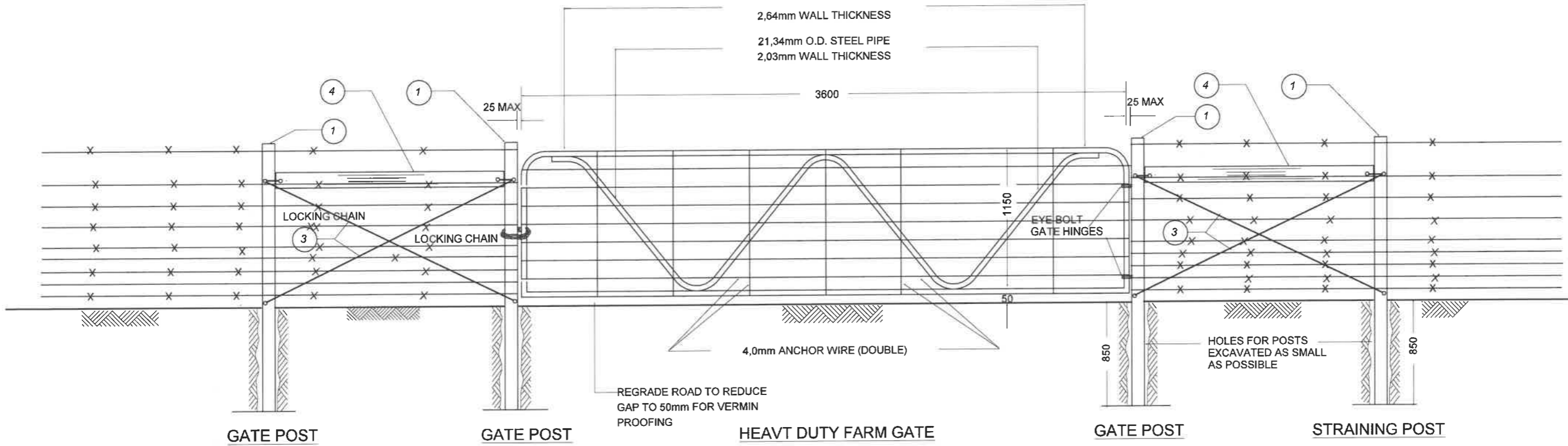
- ① 125 - 150mm TOP DIAMETER x 2100 mm TREATED TIMBER POST CORNER, STRAINING AND ANCHOR POSTS
- ③ 4mm x 4 STRANDS TWISTED SOFT GALVANISED BINDING WIRE
- ④ 100 - 125mm TOP DIAMETER x 1800 mm TREATED TIMBER POST BRACES IN BOX ANCHORS

NOTES:

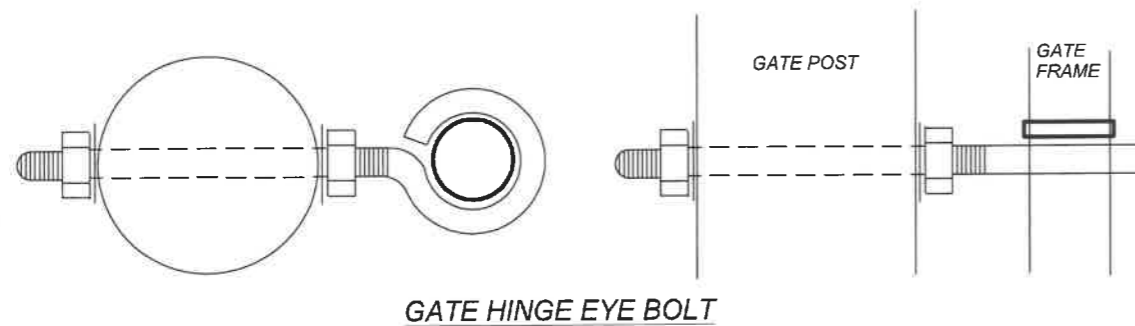
1. THIS DRAWING TO BE READ IN CONJUNCTION WITH THE PROJECT PARTICULAR SPECIFICATIONS FOR FENCES

NGL NATURAL GROUND LEVEL

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



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)

OCTOBER 2024
(DATE APPROVED)

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

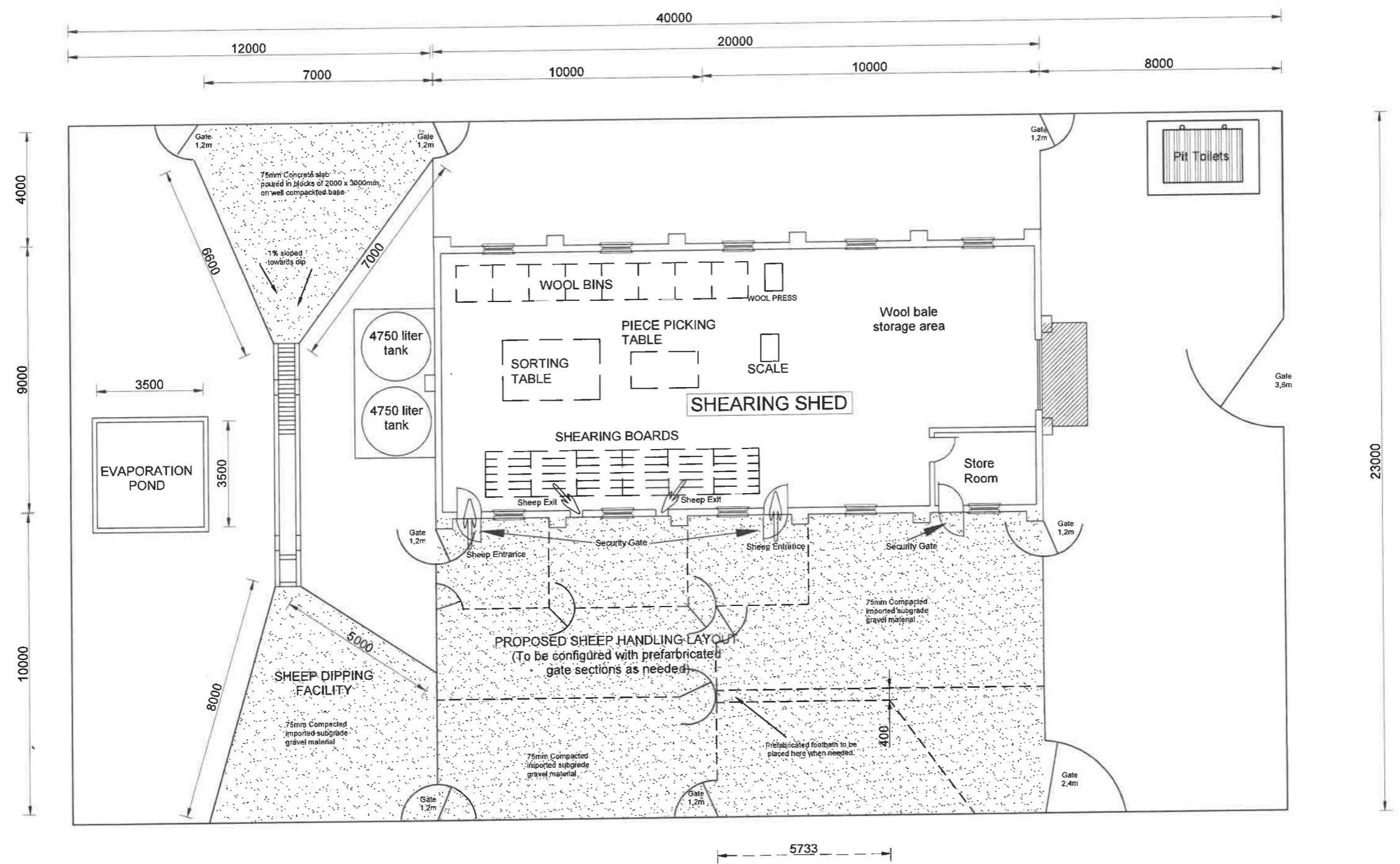
ENGINEERING SERVICES
PRIVATE BAG X015
DOHNE ADI
STUTTERHEIM
4930

STANDARD PLUNGE DIP
(TIMBER)

SITE LAYOUT PLAN

SCALE NTS	INDEX NO. SCMM-03/23/08
A3 ORIGINAL	PLAN NO. SHEET 9 OF 9

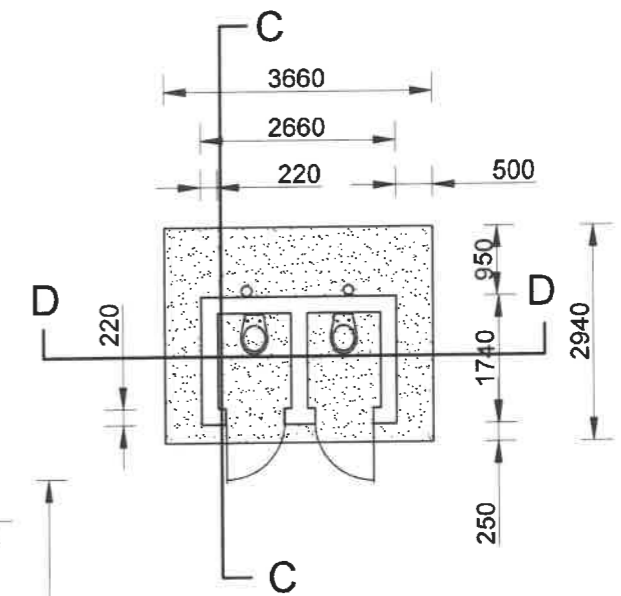
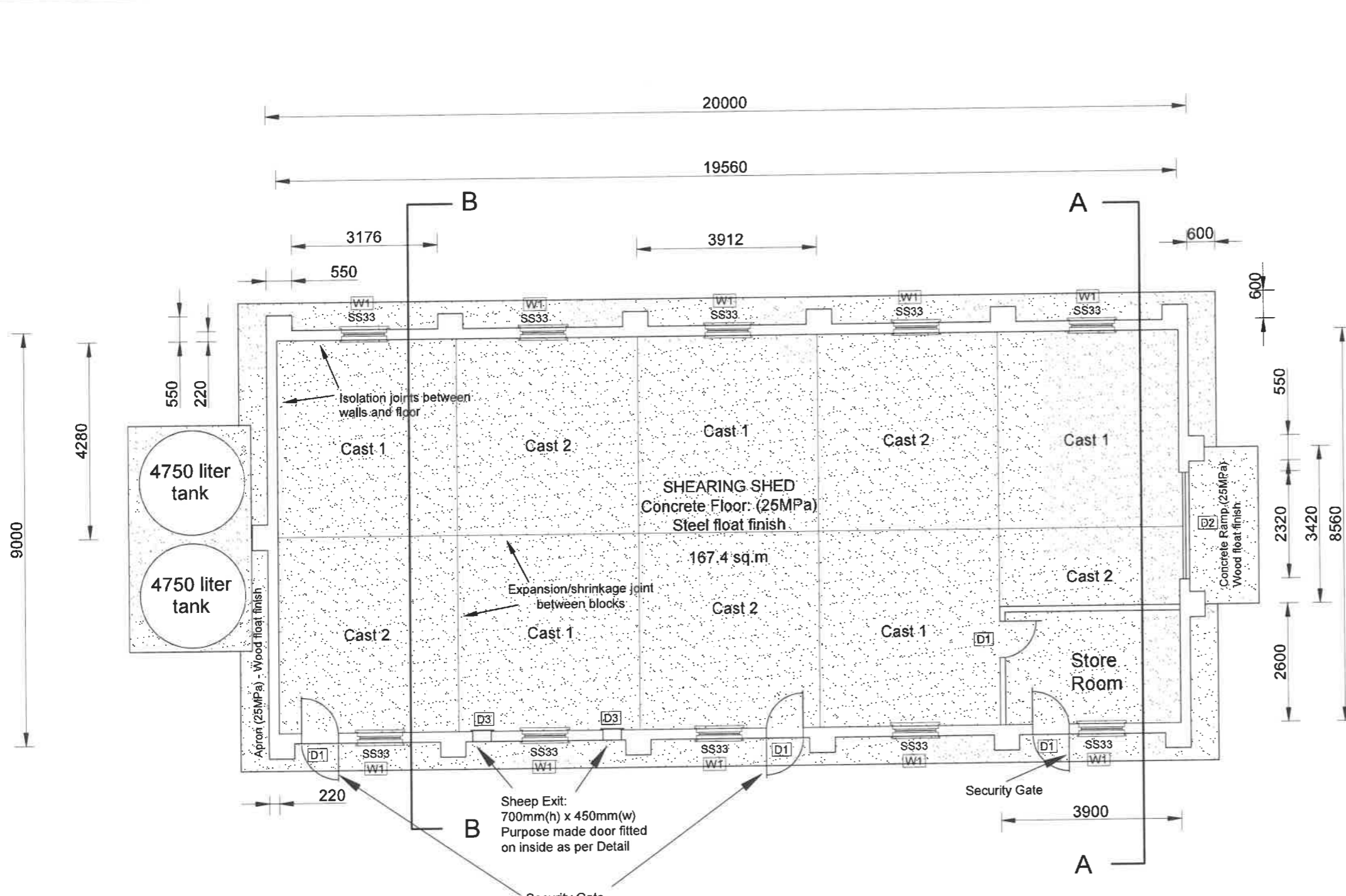
24 STANDARD SHEEP SHEARING SHED



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



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.

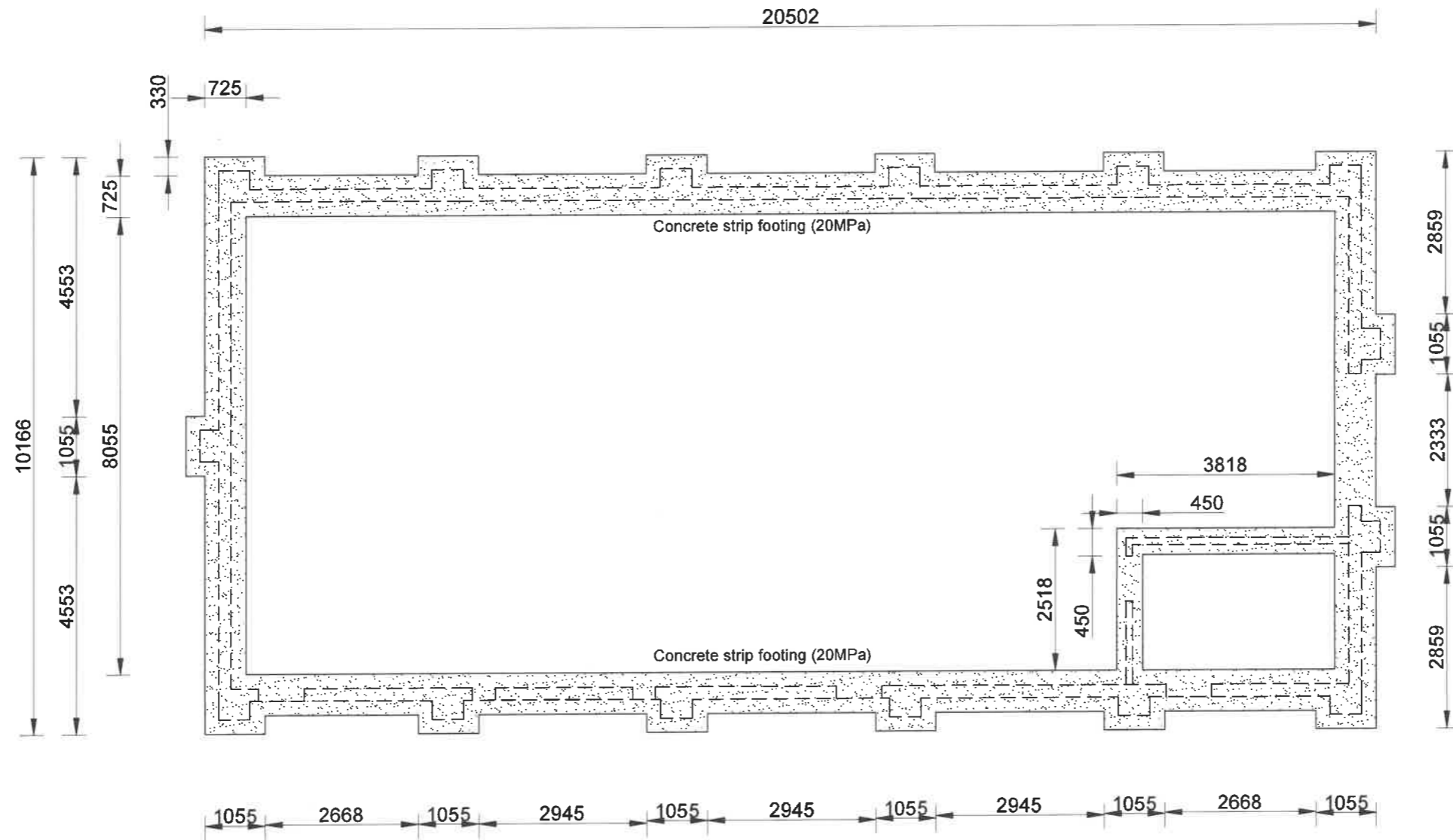
JOINTS

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.

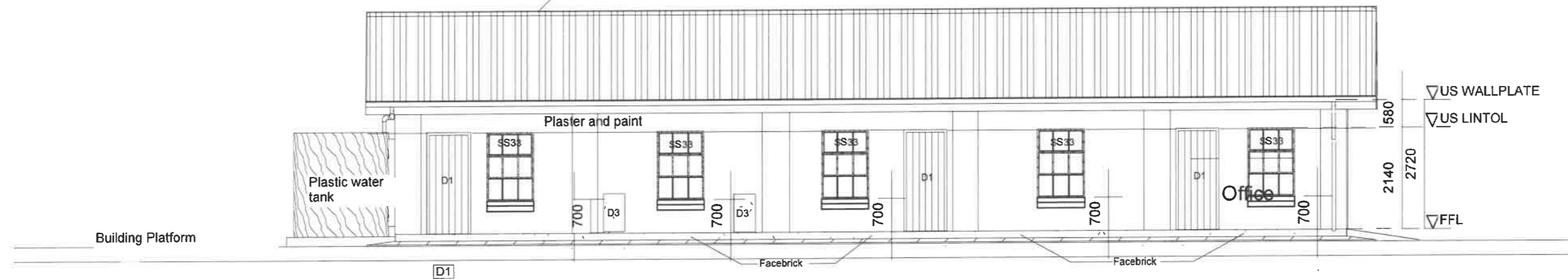
NO.	SPECIAL NOTES:	S KONDLO (CHIEF ENGINEER)	DEPARTMENT OF RURAL DEVELOPMENT AND AGRARIAN REFORM PROVINCE OF THE EASTERN CAPE	SCALE	INDEX NO.
				NTS	SCMM-03/24/02
		OCTOBER 2024 (DATE APPROVED)	ENGINEERING SERVICES PRIVATE BAG X015 DOHNE ADI STUTTERHEIM 4930	SHEARING SHED	
				FLOOR PLAN	A3 ORIGINAL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



FOUNDATION PLAN
SCALE 1:100 ON A3

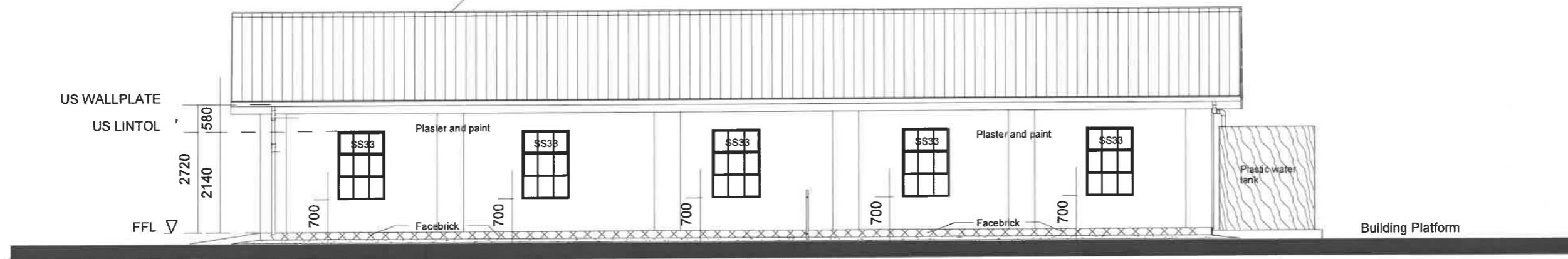
NO.	SPECIAL NOTES:	S KONDLO (CHIEF ENGINEER)	DEPARTMENT OF RURAL DEVELOPMENT AND AGRARIAN REFORM PROVINCE OF THE EASTERN CAPE	SHEARING SHED	SCALE	INDEX NO.
					NTS	SCMM-03/24/03
		OCTOBER 2024 (DATE APPROVED)	ENGINEERING SERVICES PRIVATE BAG X015 DOHNE ADI STUTTERHEIM 4930	FOUNDATION LAYOUT	A3 ORIGINAL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

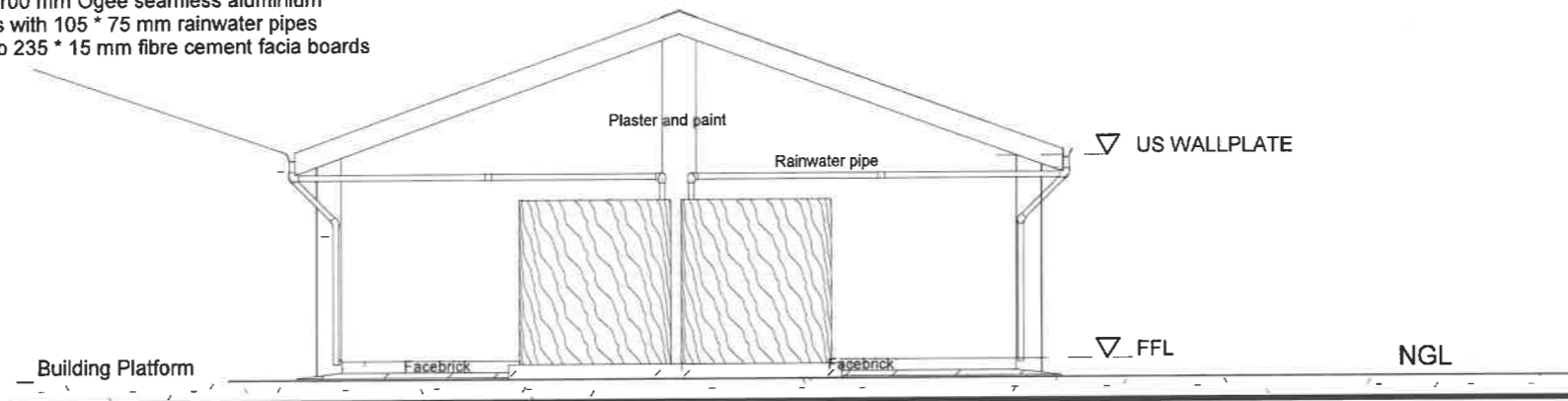
0,58 mm galvanized IBR Chromadek roof sheeting on 50 * 75 mm timber purlins at 750 mm c/c max on prefabricated engineered timber roof trusses at 20 degree spaced at 1 500 mm c/c max anchored with galvanized wire straps, wrapped with 6 micron dpc and built into wall.



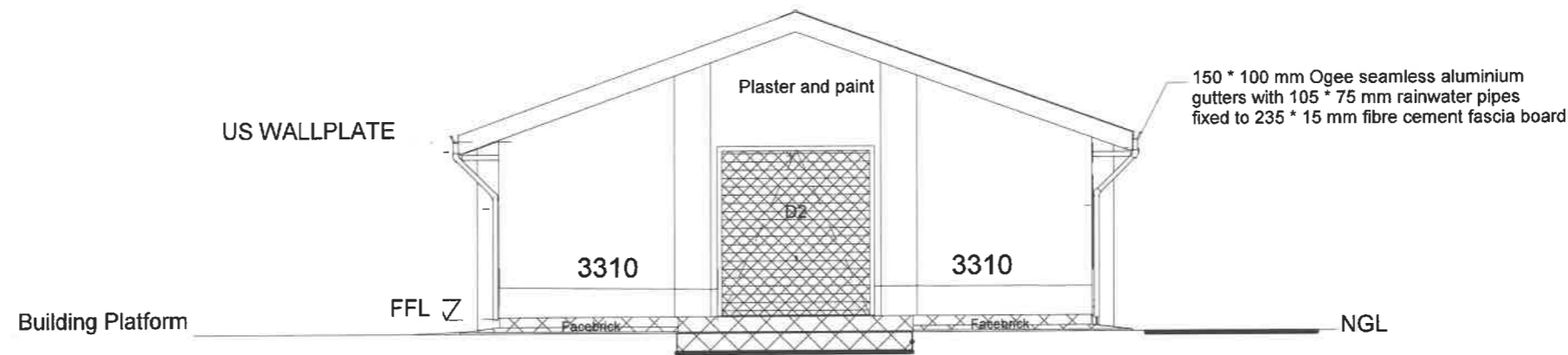
SOUTH ELEVATION
SCALE 1:100 on (A3)

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

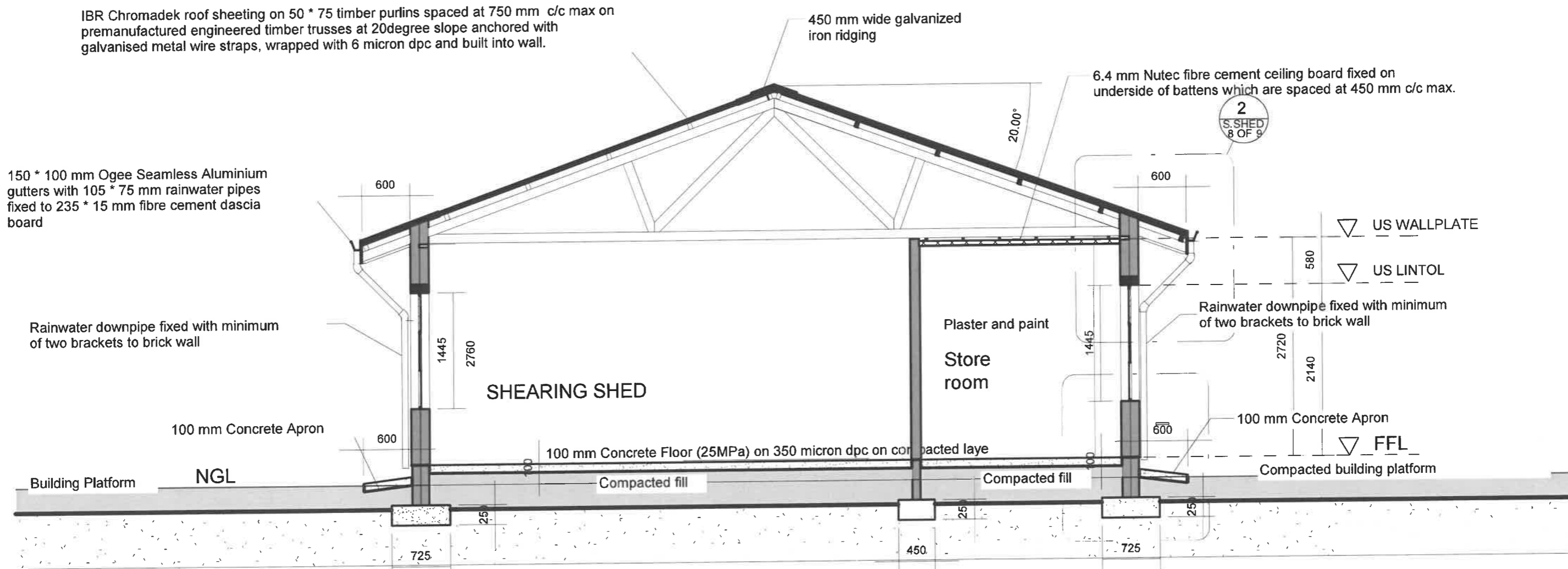


EAST ELEVATION
SCALE 1:100 on (A3)



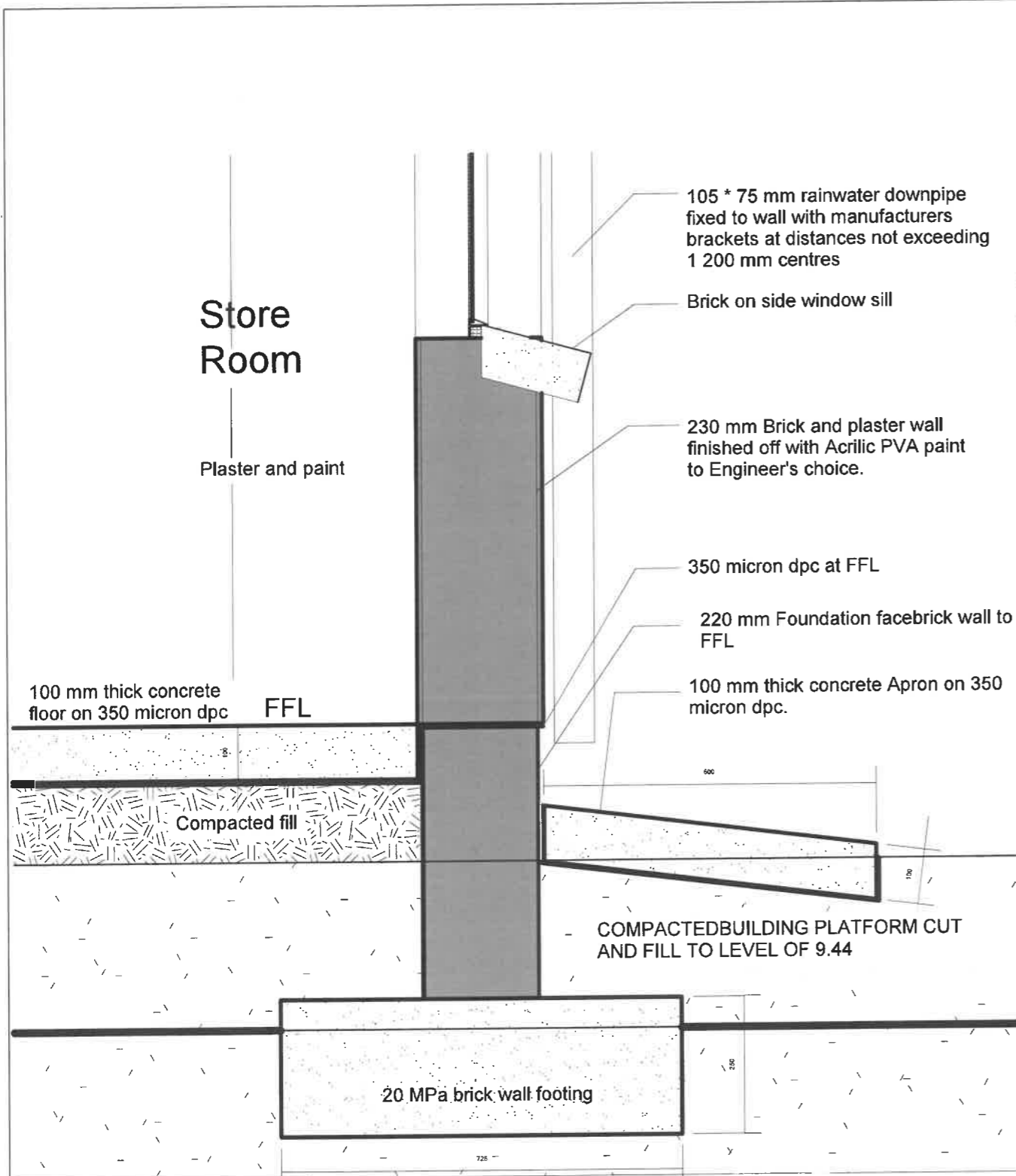
WEST ELEVATION
SCALE 1:100 on (A3)

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

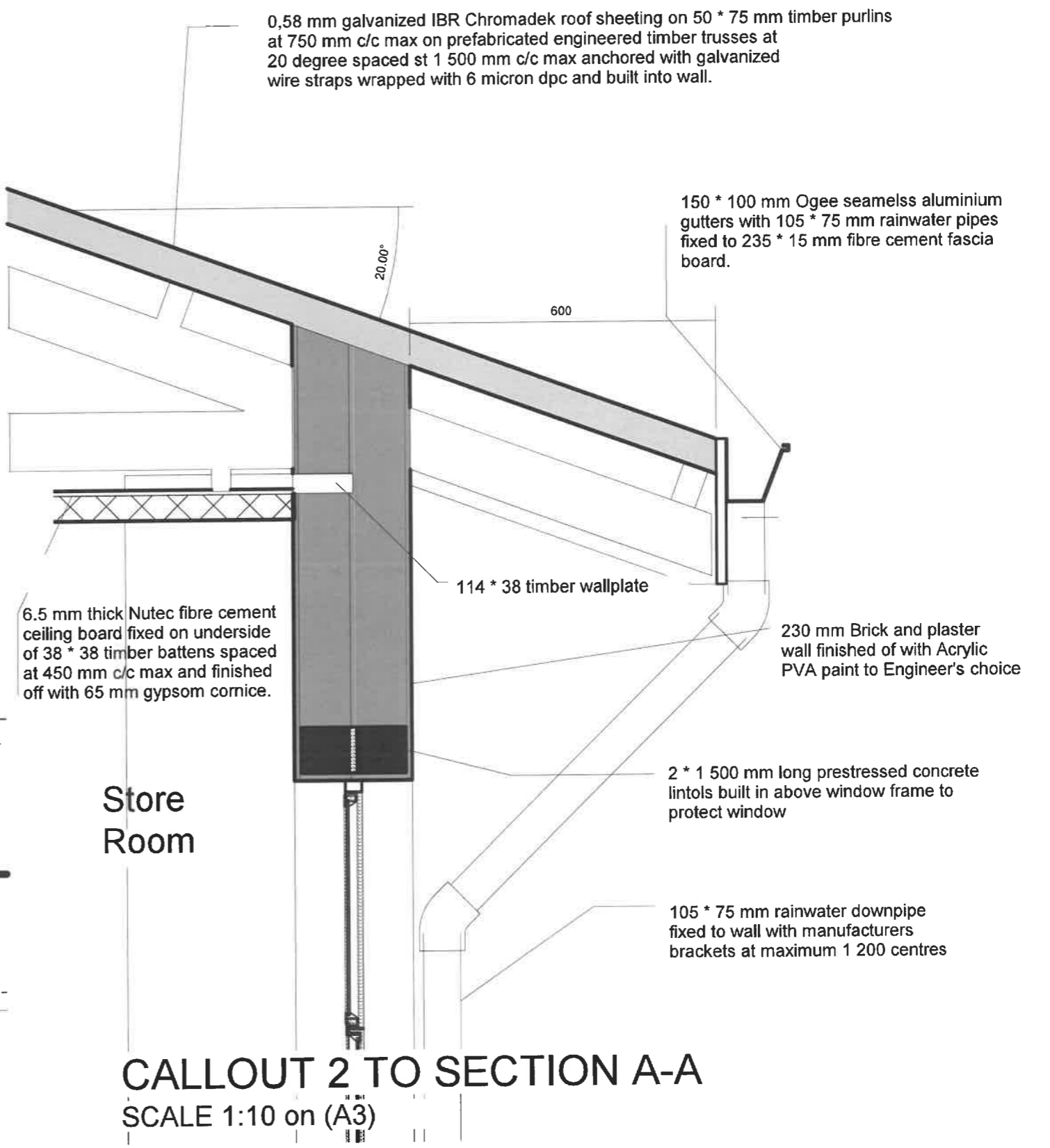


SECTION A - A
SCALE 1: 50 on (A3)

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



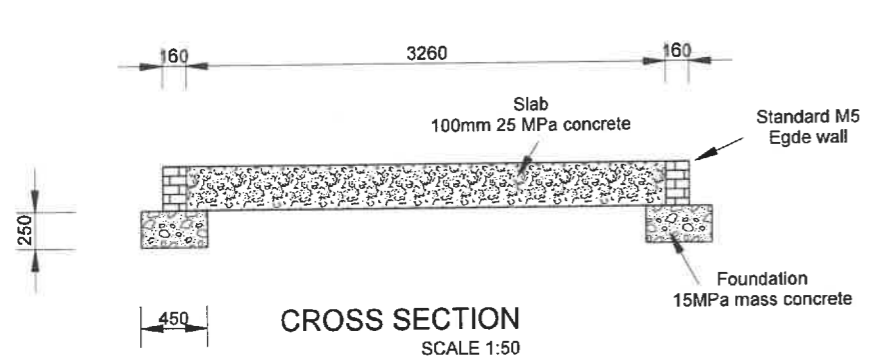
CALLOUT 1 TO SECTION A-A
SCALE 1:10 on (A3)



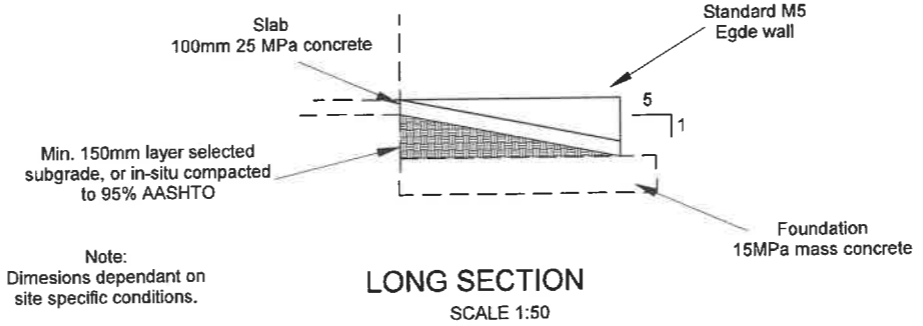
CALLOUT 2 TO SECTION A-A
SCALE 1:10 on (A3)

NO.	SPECIAL NOTES:	S KONDLO (CHIEF ENGINEER)	DEPARTMENT OF RURAL DEVELOPMENT AND AGRARIAN REFORM PROVINCE OF THE EASTERN CAPE	SHEARING SHED		SCALE	INDEX NO.
				CALLOUTS		NTS	SCMM-03/24/07
		OCTOBER 2024 (DATE APPROVED)	ENGINEERING SERVICES PRIVATE BAG X015 DOHNE ADI STUTTERHEIM 4930			A3 ORIGINAL	PLAN NO. SHEET 7 OF 12

DETAIL OF CONCRETE RAMP



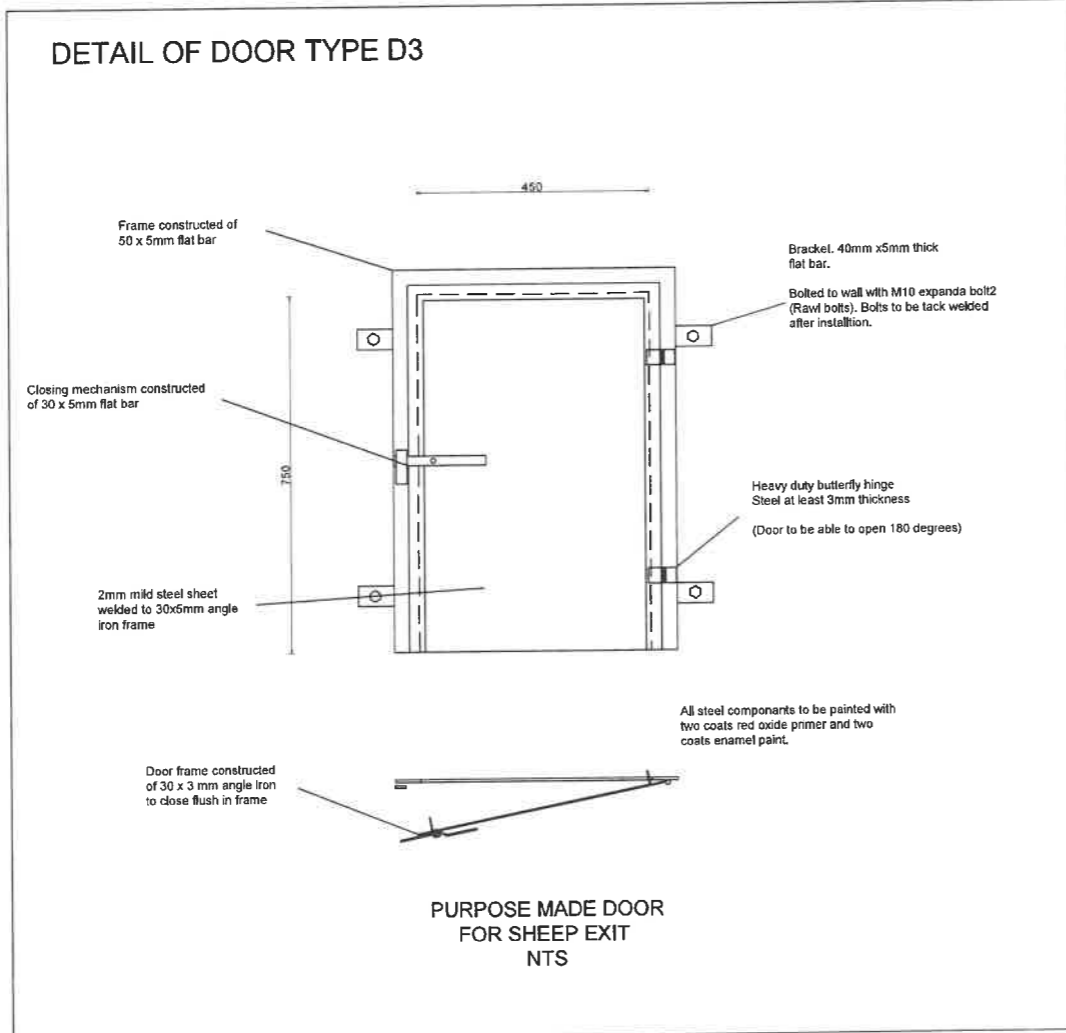
CROSS SECTION
SCALE 1:50



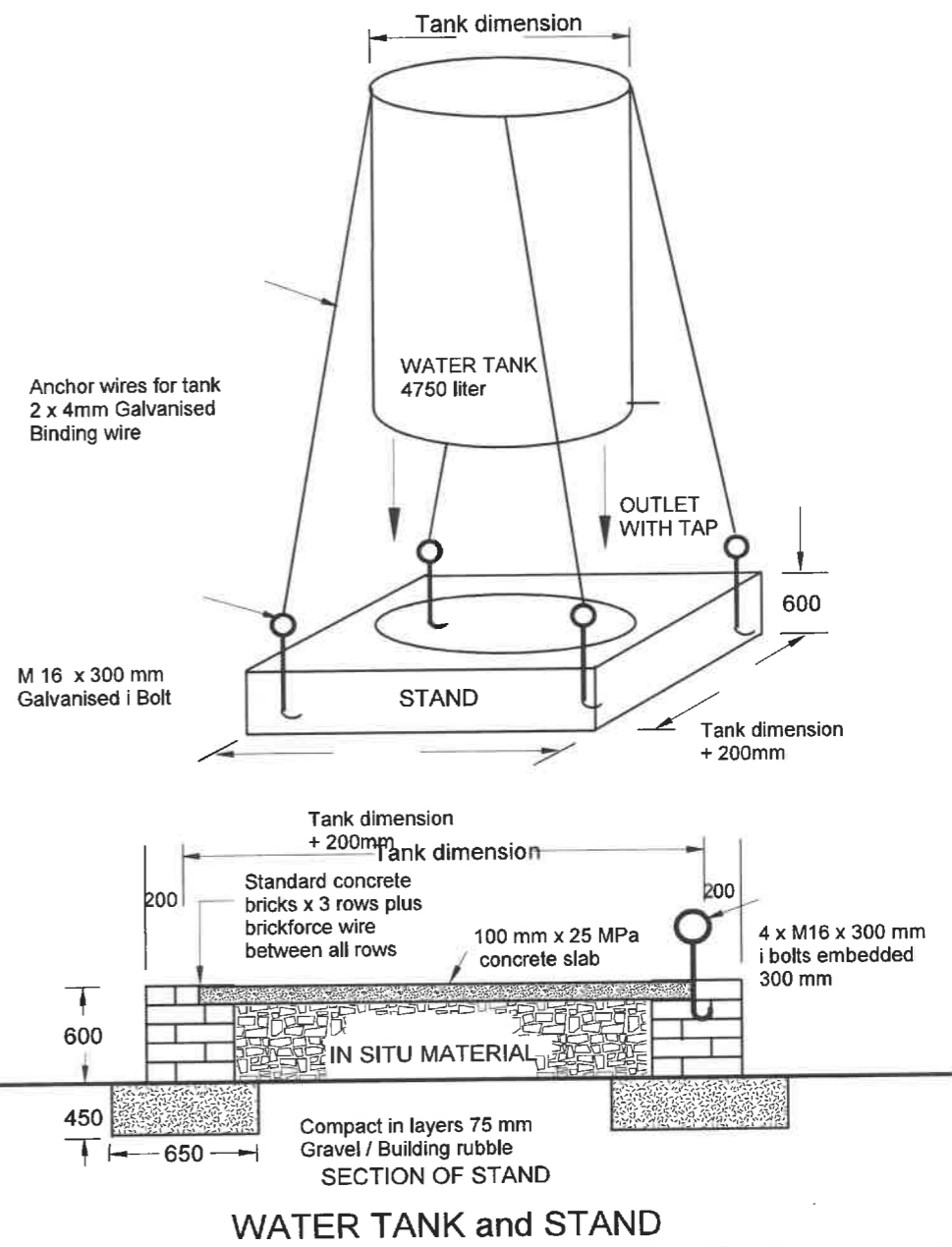
LONG SECTION
SCALE 1:50

Note:
Dimesions dependant on
site specific conditions.

DETAIL OF DOOR TYPE D3

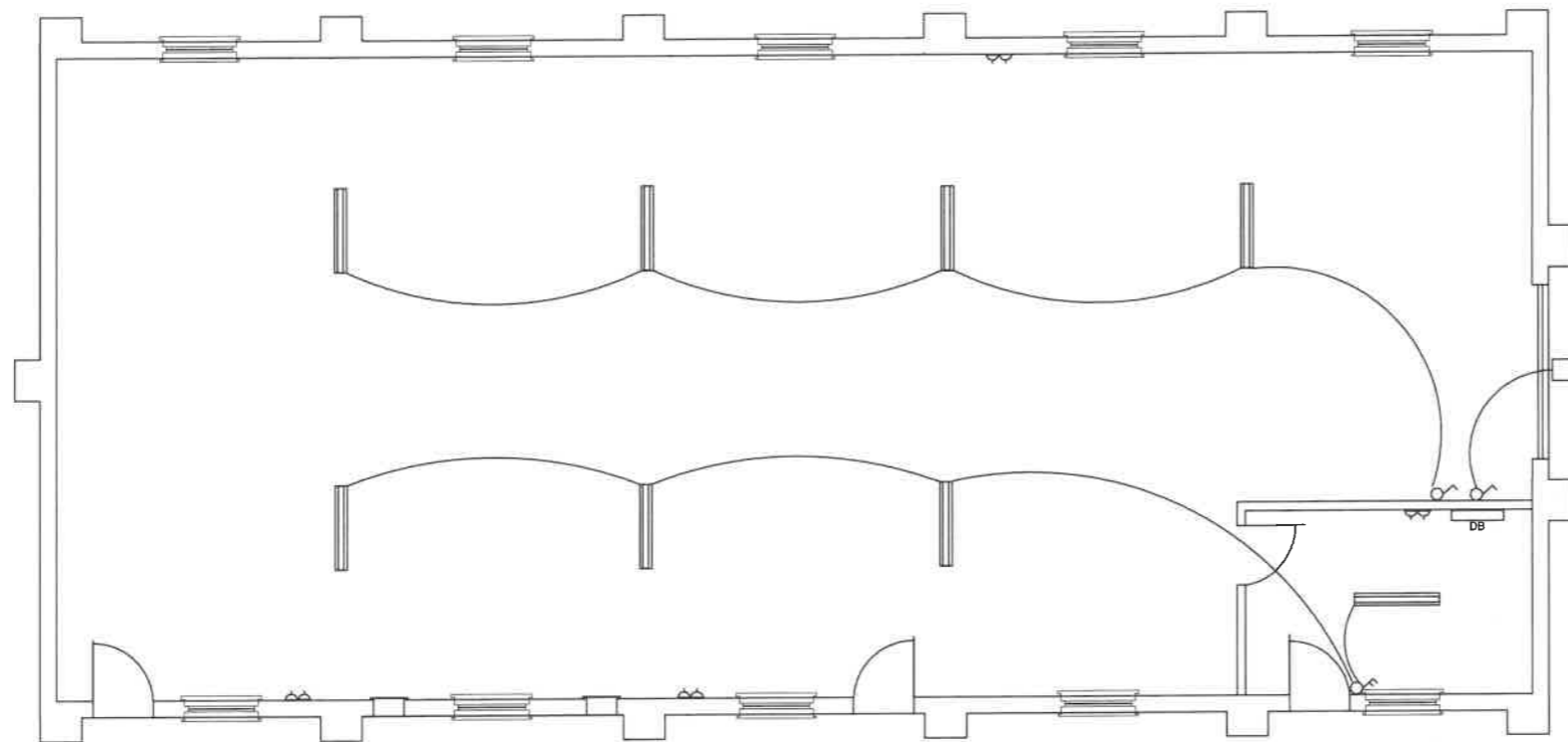


**PURPOSE MADE DOOR
FOR SHEEP EXIT
NTS**



WATER TANK and STAND

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



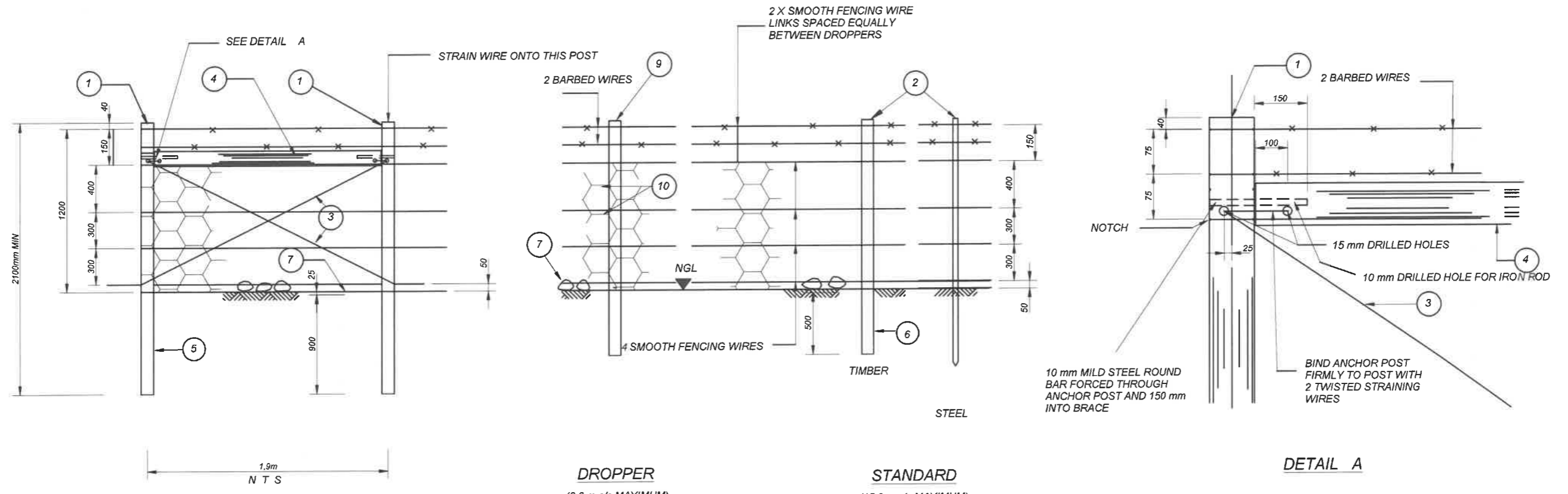
LEGEND

	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

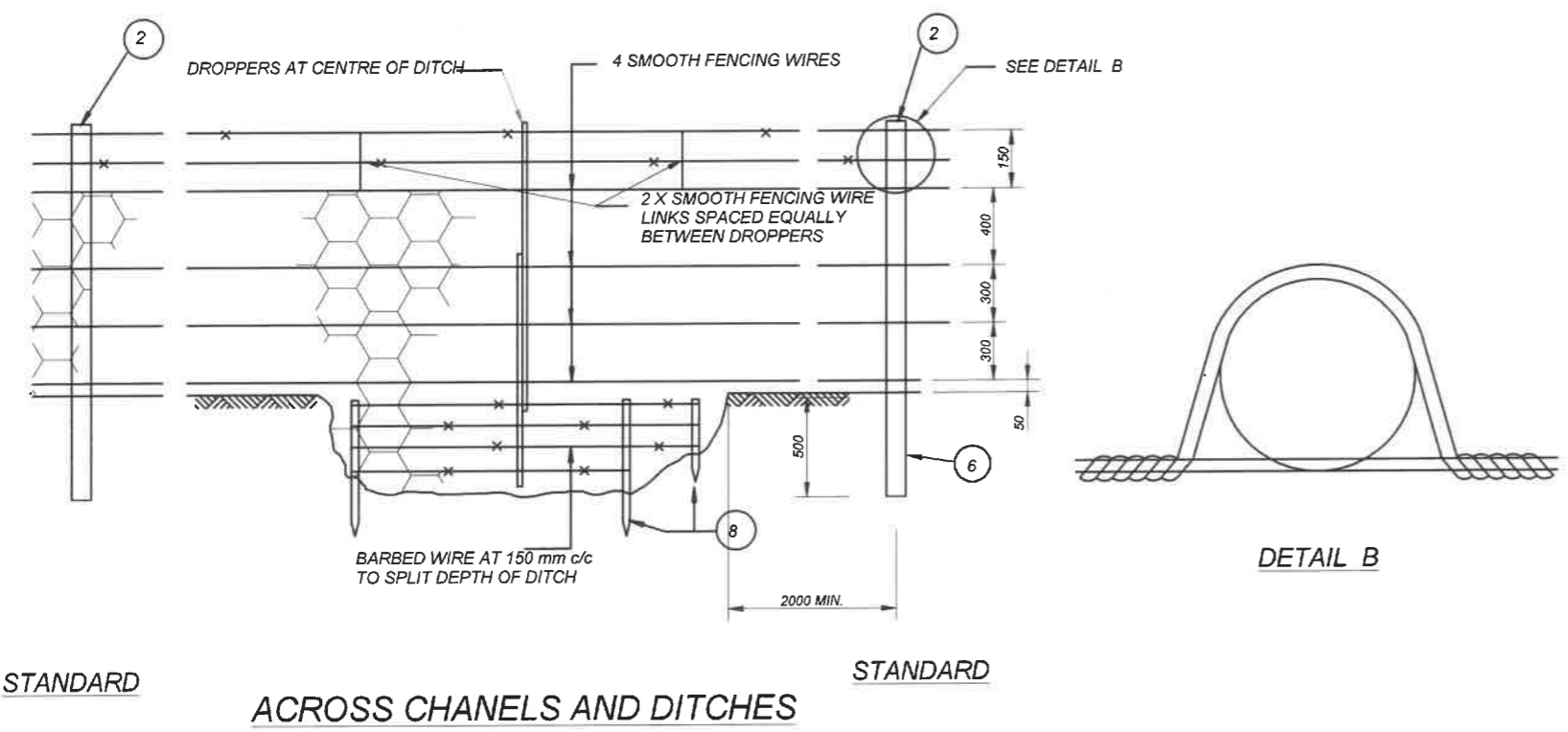
ELECTRICAL LAYOUT PLAN

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.
						NTS
		OCTOBER 2024 (DATE APPROVED)	ENGINEERING SERVICES PRIVATE BAG X015 DOHNE ADI STUTTERHEIM 4930	ELECTRICAL LAYOUT	A3 ORIGINAL	PLAN NO. SHEET 9 OF 12



GENERAL DETAILS OF FENCING



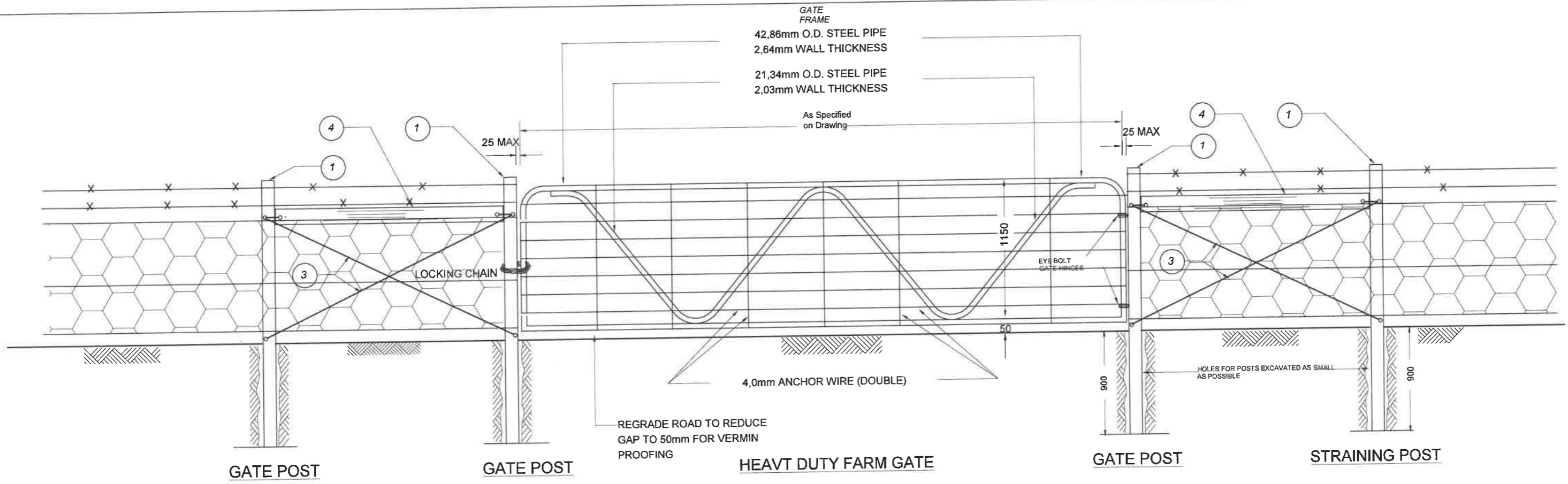
LEGEND

- 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

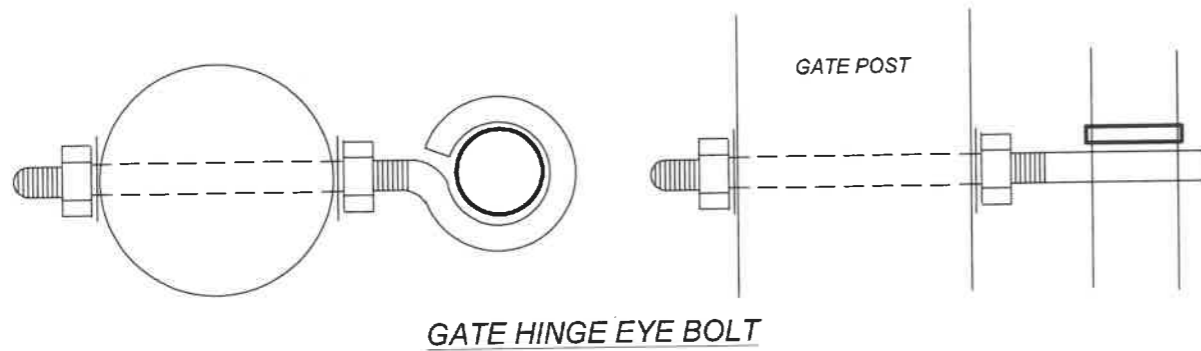
NGL NATURAL GROUND LEVEL

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)	DEPARTMENT OF RURAL DEVELOPMENT AND AGRARIAN REFORM PROVINCE OF THE EASTERN CAPE	SCALE	INDEX NO.
				OCTOBER 2024 (DATE APPROVED)	ENGINEERING SERVICES PRIVATE BAG X015 DOHNE ADI STUTTERHEIM 4930
				SHEARING SHED FENCE	
				FENCE	PLAN NO. SHEET 10 OF 12
				A3 ORIGINAL	



FARM GATES



LEGEND

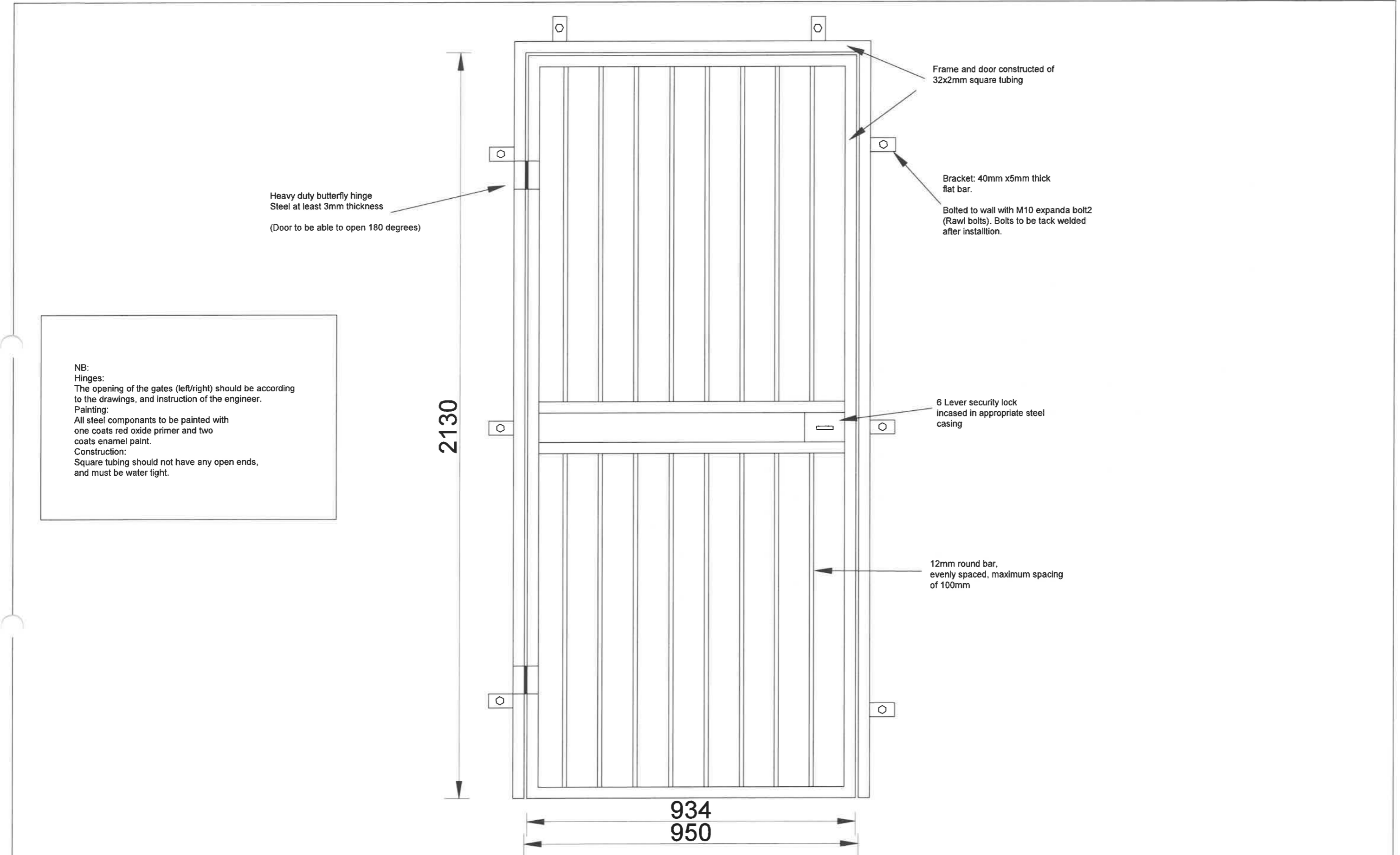
- ① — 125 - 150mm TOP DIAMETER x 2100 mm TREATED TIMBER POST
CORNER, STRAINING, GATE AND ANCHOR POSTS
- ③ — 4mm x 4 STRANDS TWISTED SOFT GALVANISED BINDING WIRE
- ④ — 100 - 125mm TOP DIAMETER x 1800 mm TREATED TIMBER POST
BRACES IN BOX ANCHORS

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

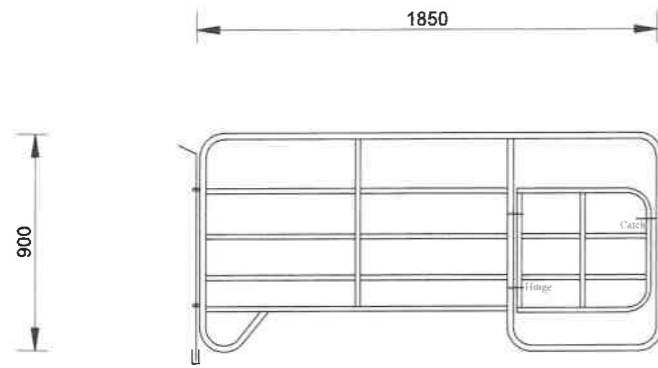
NO.	SPECIAL NOTES:	S KONDLO (CHIEF ENGINEER)	DEPARTMENT OF RURAL DEVELOPMENT AND AGRARIAN REFORM PROVINCE OF THE EASTERN CAPE	SHEARING SHED FENCE	SCALE NTS	INDEX NO. SCMM-03/24/11
		OCTOBER 2024 (DATE APPROVED)	ENGINEERING SERVICES PRIVATE BAG X015 DOHNE ADI STUTTERHEIM 4930	FENCE	A3 ORIGINAL	PLAN NO.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



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.

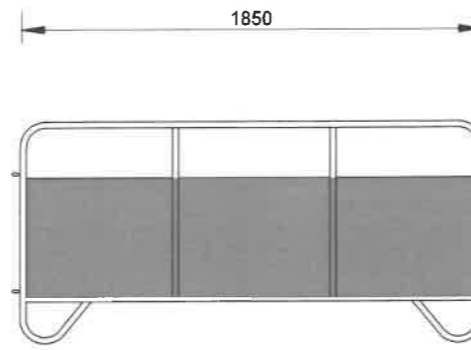
NO.	SPECIAL NOTES:	S KONDLO (CHIEF ENGINEER)	DEPARTMENT OF RURAL DEVELOPMENT AND AGRARIAN REFORM PROVINCE OF THE EASTERN CAPE	SHEARING SHED		SCALE	INDEX NO.
						NTS	SCMM-03/24/12
		OCTOBER 2024 (DATE APPROVED)	ENGINEERING SERVICES PRIVATE BAG X015 DOHNE ADI STUTTERHEIM 4930	SECURITY GATE		A3 ORIGINAL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

25 PRE-FABRICATED SHEEP HANDLING FACILITIES



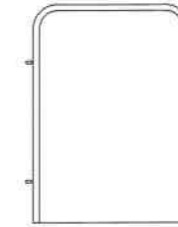
GATE SECTION 1 (GS1)

Premanufactured sheep gate
(Taltec TSK 3 or similar)

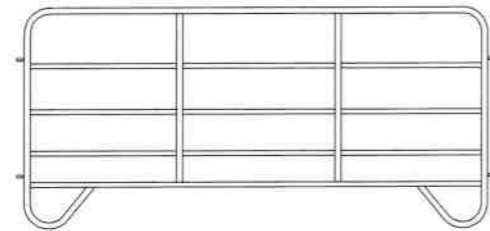


GATE SECTION 4 (GS4)

Premanufactured sheep Crush section
(Taltec TSK 2 or similar)

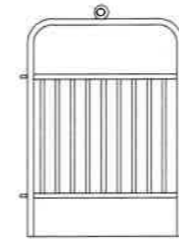


Premanufactured Arch Frame



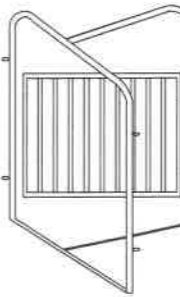
GATE SECTION 2 (GS2)

Premanufactured sheep gate
(Taltec TSK 1 or similar)



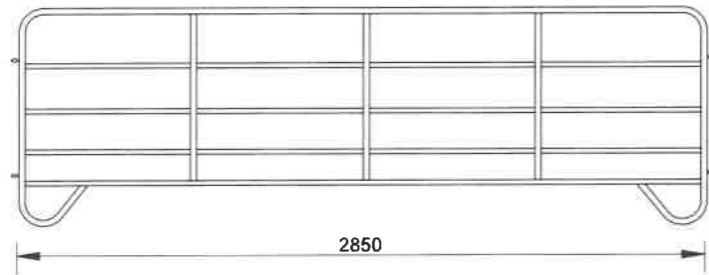
GATE SECTION 5 (GS5)

Premanufactured Guillotine gate
(Taltec TSK 4 or similar)



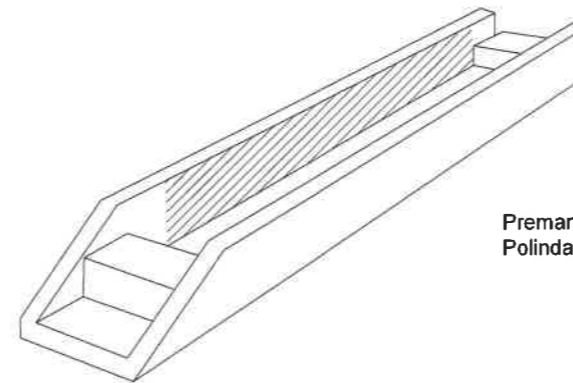
GATE SECTION 7 (GS7)

Premanufactured Sorting gate
(Taltec TSK 5 or similar)



GATE SECTION 3 (GS3)

Premanufactured sheep gate
(Taltec TSK 1 or similar)



PREFABRICATED FOOT BATH

Premanufactured Sheep foot bath
Polindale or similar approved.

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

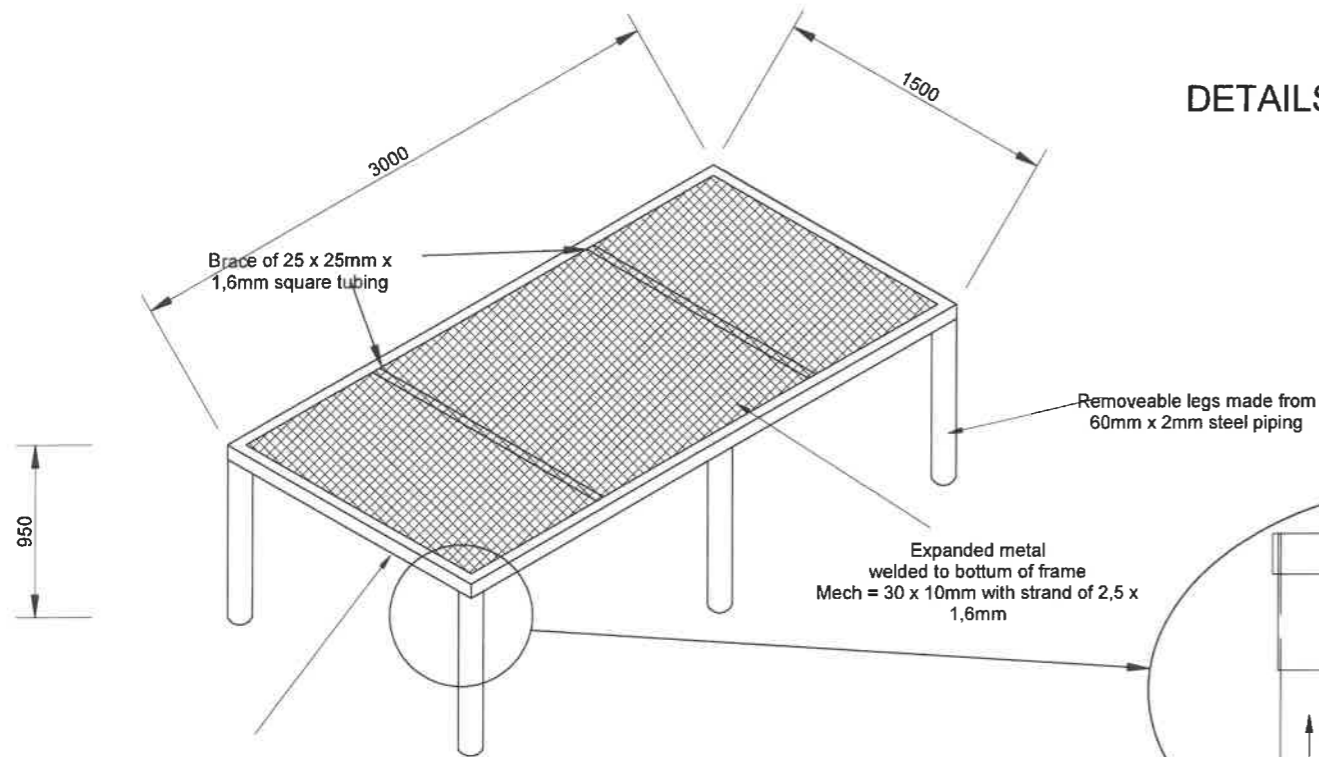
A3 ORIGINAL

INDEX NO.
SCMM-03/25/01

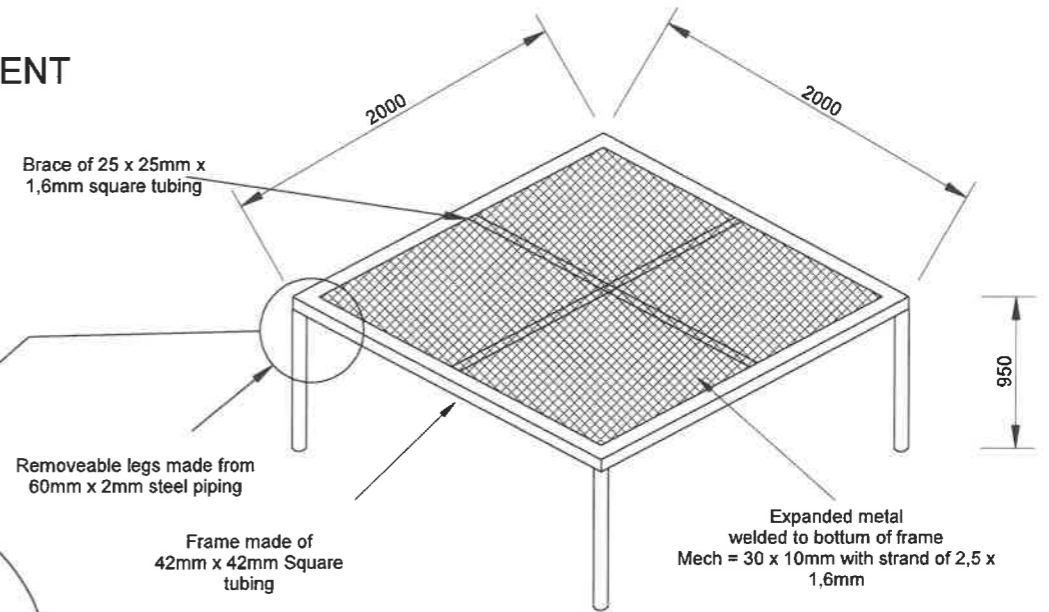
PLAN NO.
SHEET 1 OF 1

26 SHEEP SHEARING EQUIPMENT

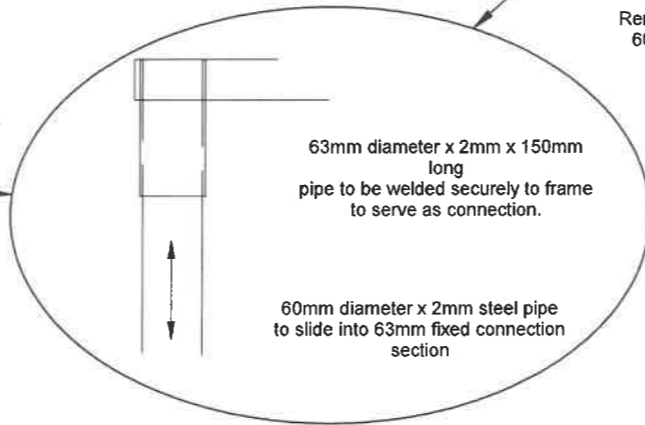
DETAILS OF SHEARING EQUIPMENT



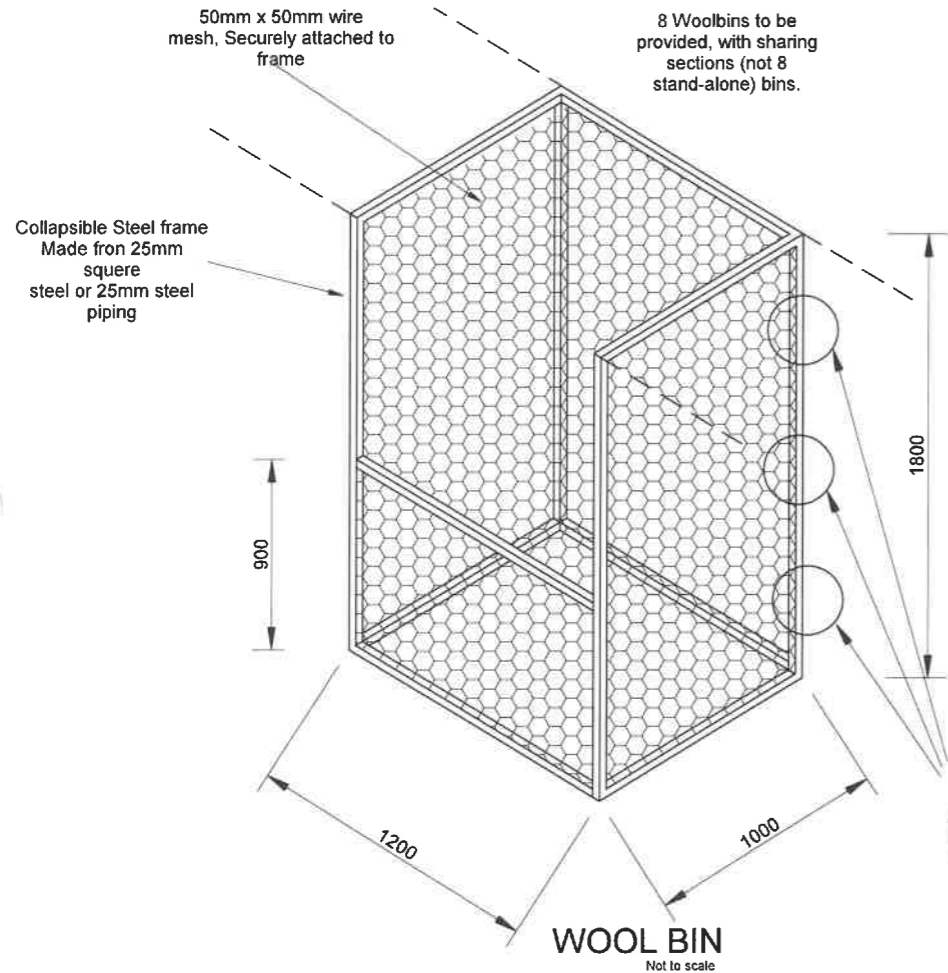
WOOL SORTING TABLE
Not to scale



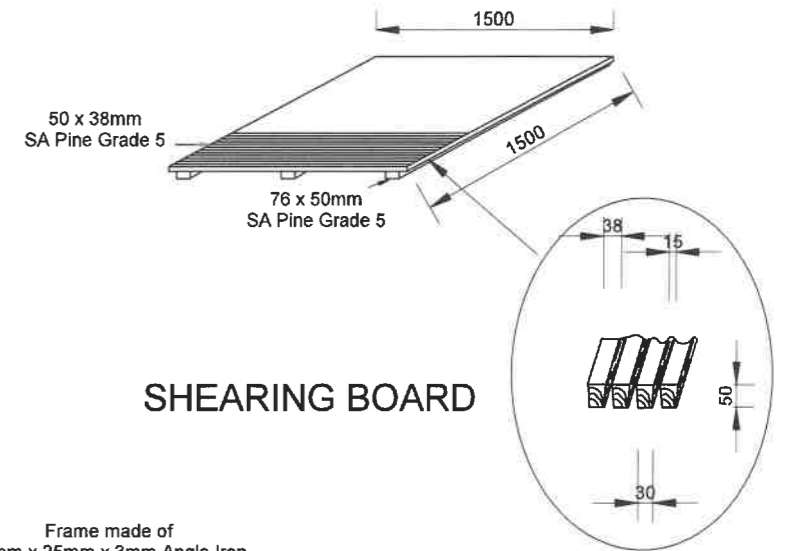
PIECE PICKING TABLE
Not to scale



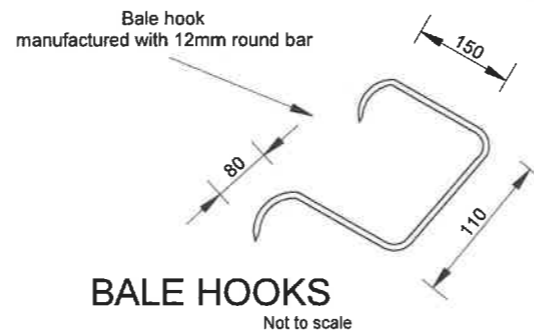
50mm x 50mm wire mesh, Securely attached to frame
8 Woolbins to be provided, with sharing sections (not 8 stand-alone) bins.



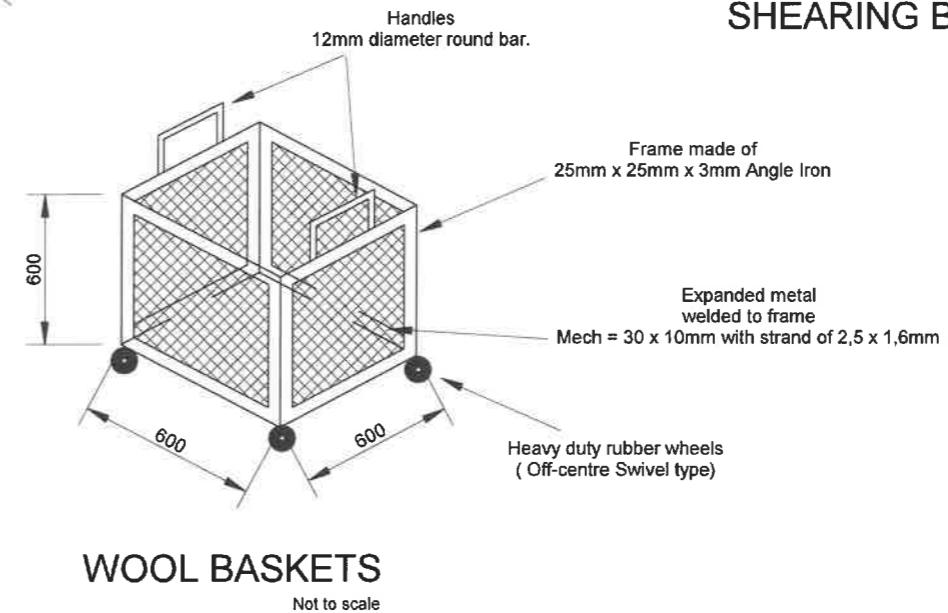
WOOL BIN
Not to scale



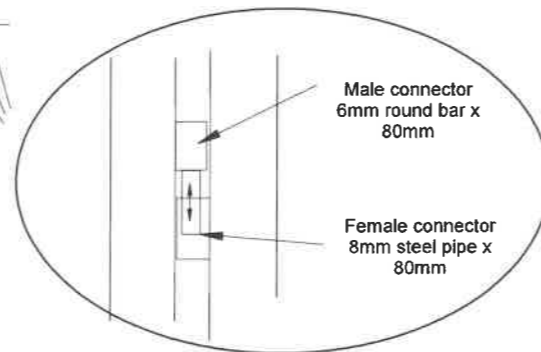
SHEARING BOARD



BALE HOOKS
Not to scale



WOOL BASKETS
Not to scale



NO.	SPECIAL NOTES:

S KONDLO
(CHIEF ENGINEER)

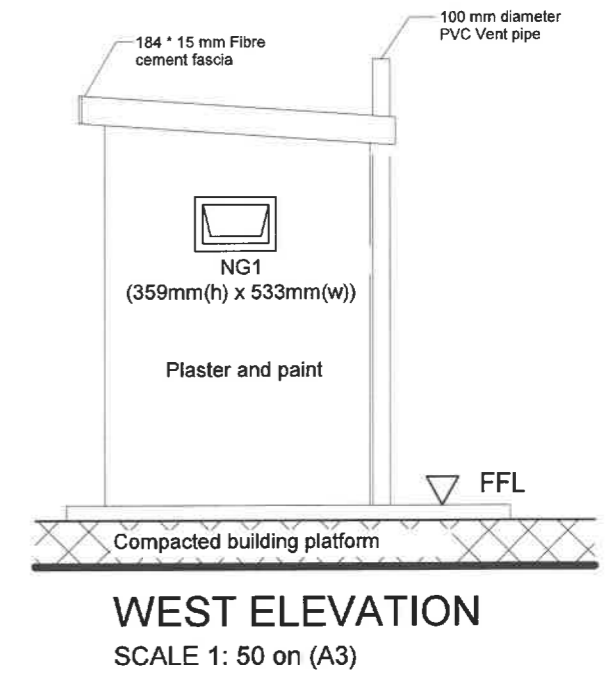
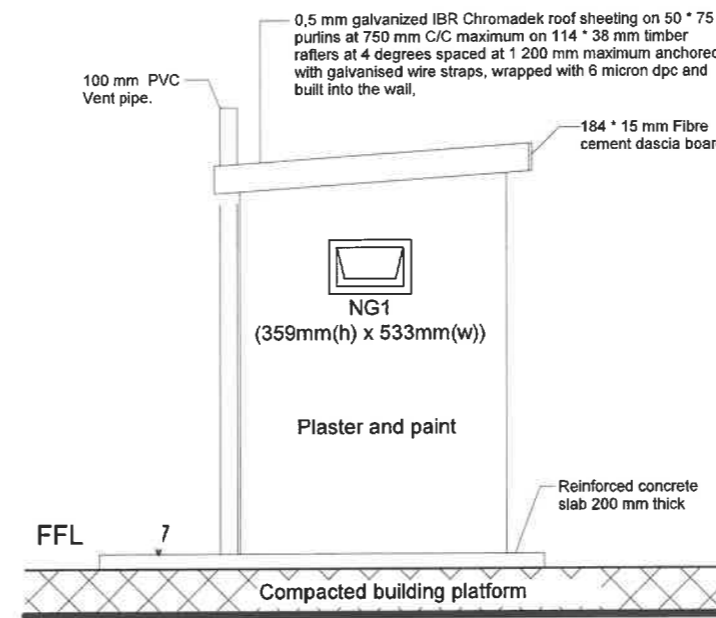
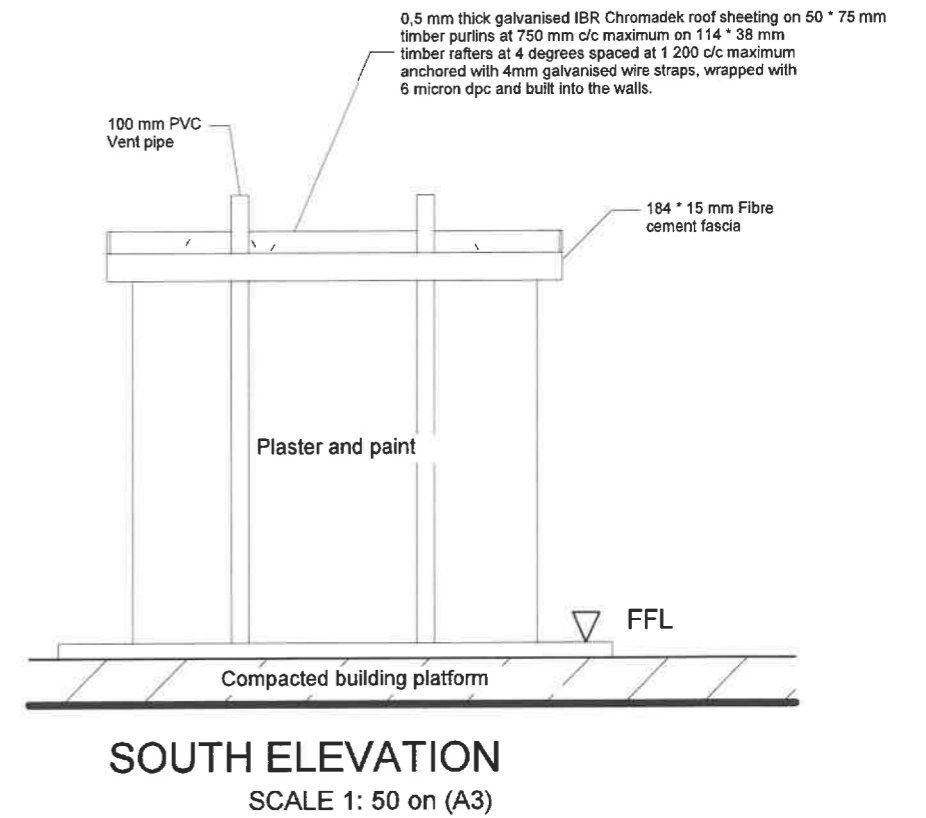
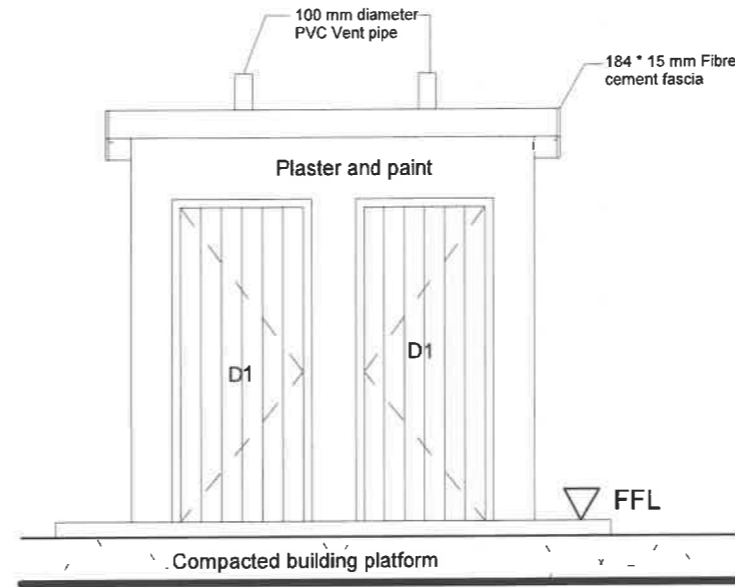
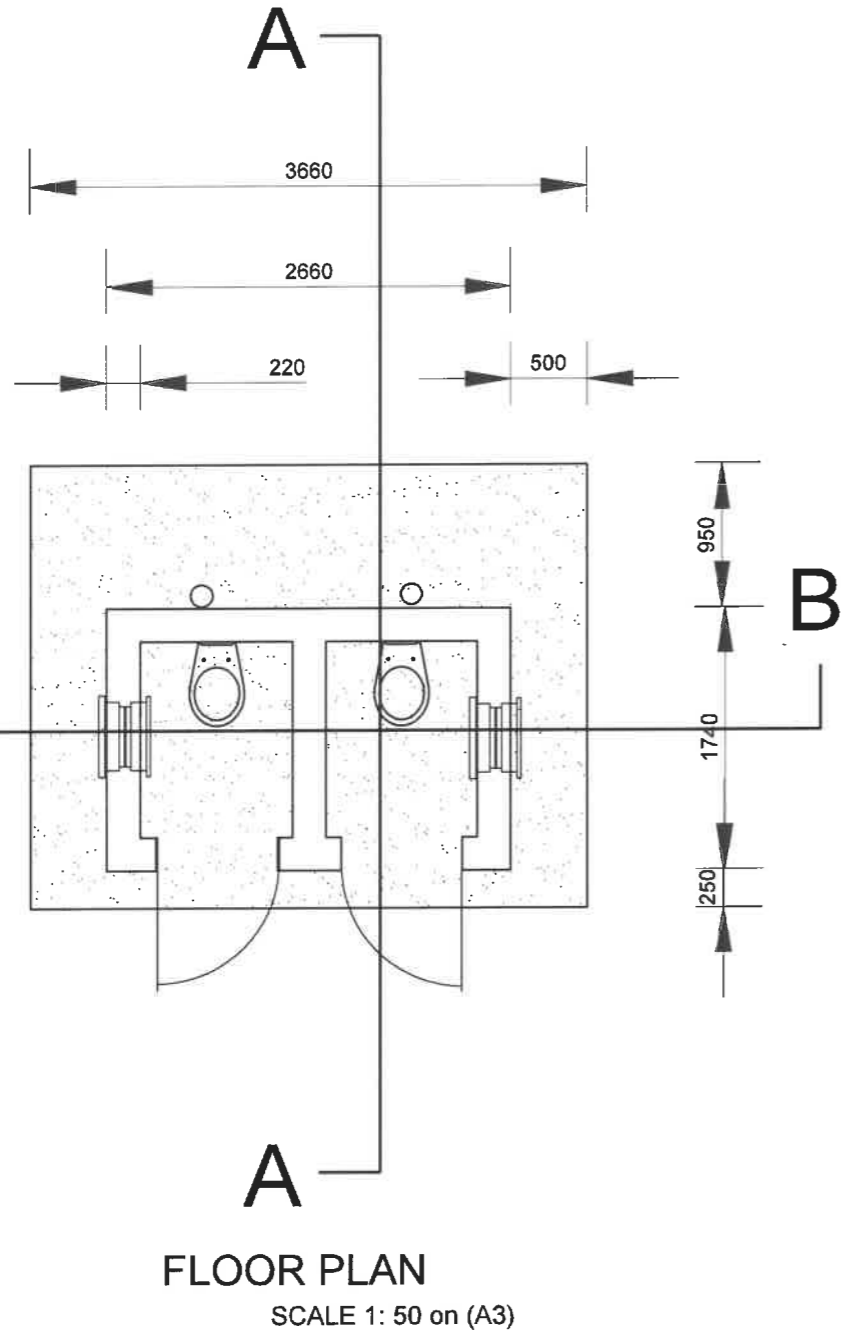
OCTOBER 2024
(DATE APPROVED)

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

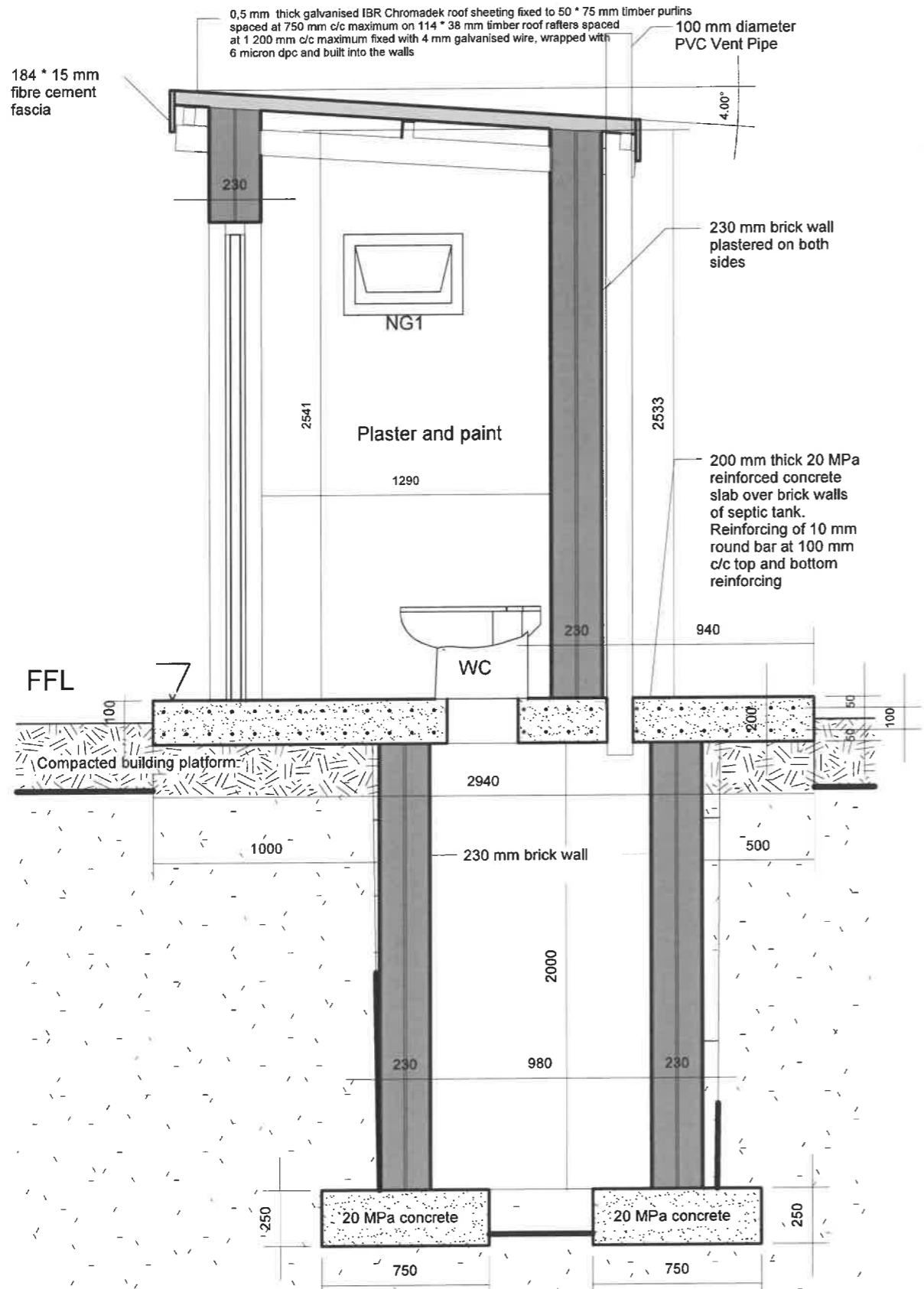
ENGINEERING SERVICES
PRIVATE BAG X015
DOHNE ADI
STUTTERHEIM
4930

SHEARING EQUIPMENT	SCALE NTS	INDEX NO. SCMM-03/26/01
SHEARING EQUIPMENT	A3 ORIGINAL	PLAN NO. SHEET 1 OF 1

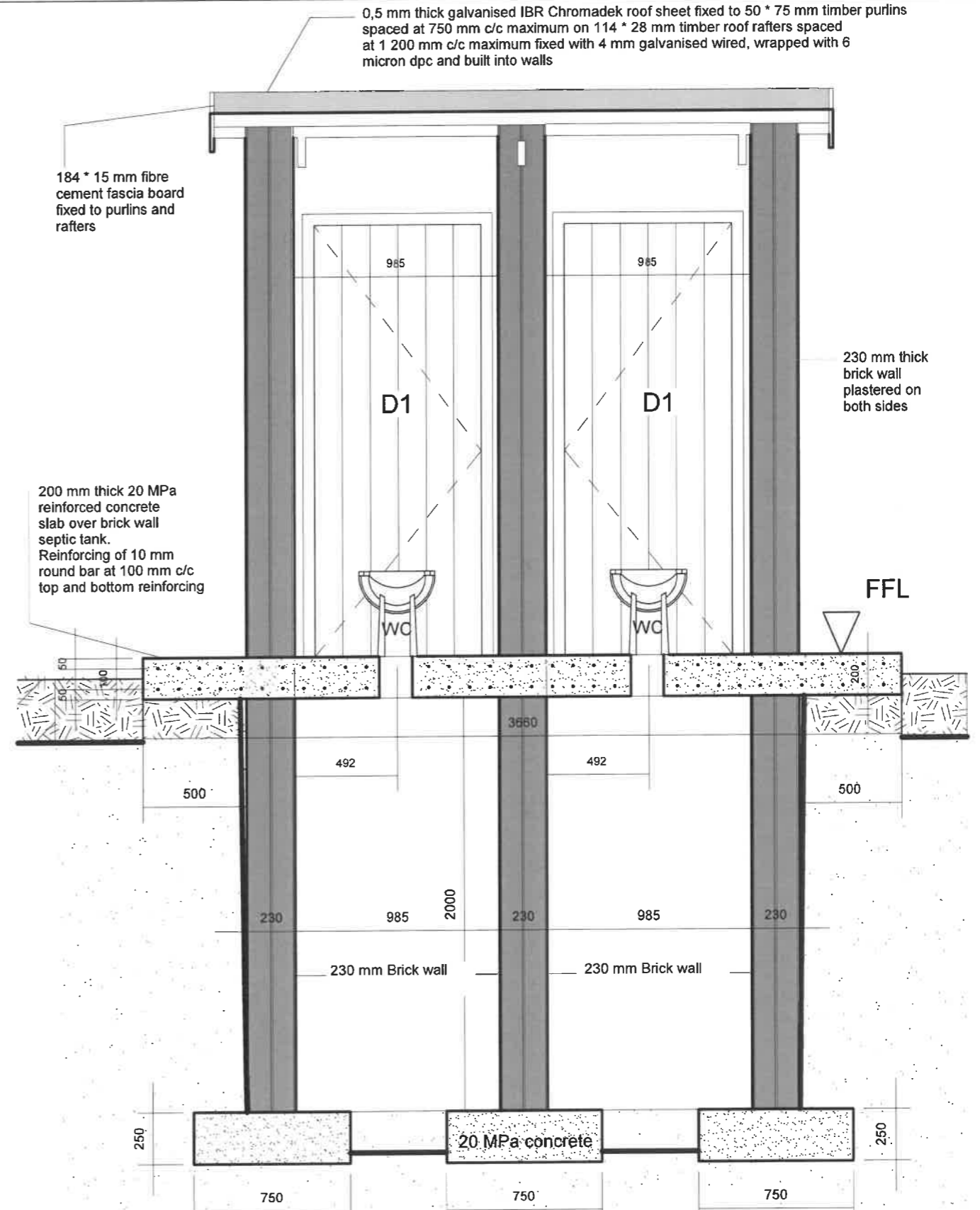
27 STANDARD PIT TOILET



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-03/27/01
		OCTOBER 2024 (DATE APPROVED)	ENGINEERING SERVICES PRIVATE BAG X015 DOHNE ADI STUTTERHEIM 4930	PLAN AND ELEVATIONS	A3 ORIGINAL	PLAN NO. SHEET 1 OF 2



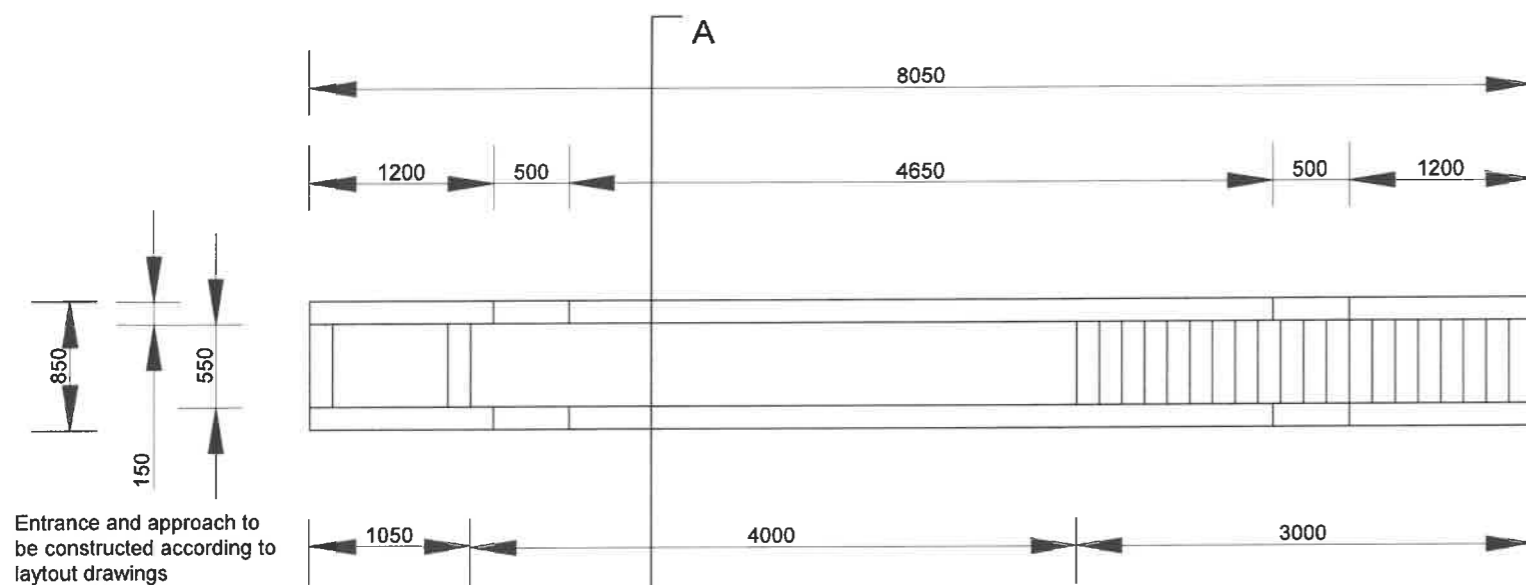
SECTION A-A
SCALE 1: 25 on (A3)



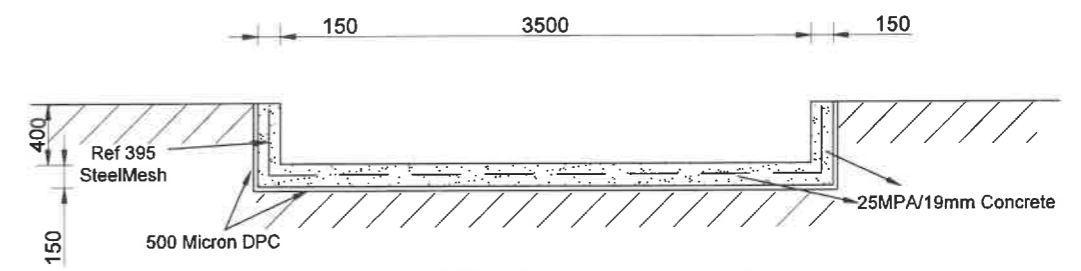
SECTION B-B
SCALE 1: 25 on (A3)

NO.	SPECIAL NOTES:	S. KONDLO (CHIEF ENGINEER)	DEPARTMENT OF RURAL DEVELOPMENT AND AGRARIAN REFORM PROVINCE OF THE EASTERN CAPE	PIT TOILET	SCALE	INDEX NO.
					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



PLAN VIEW
SCALE 1:50



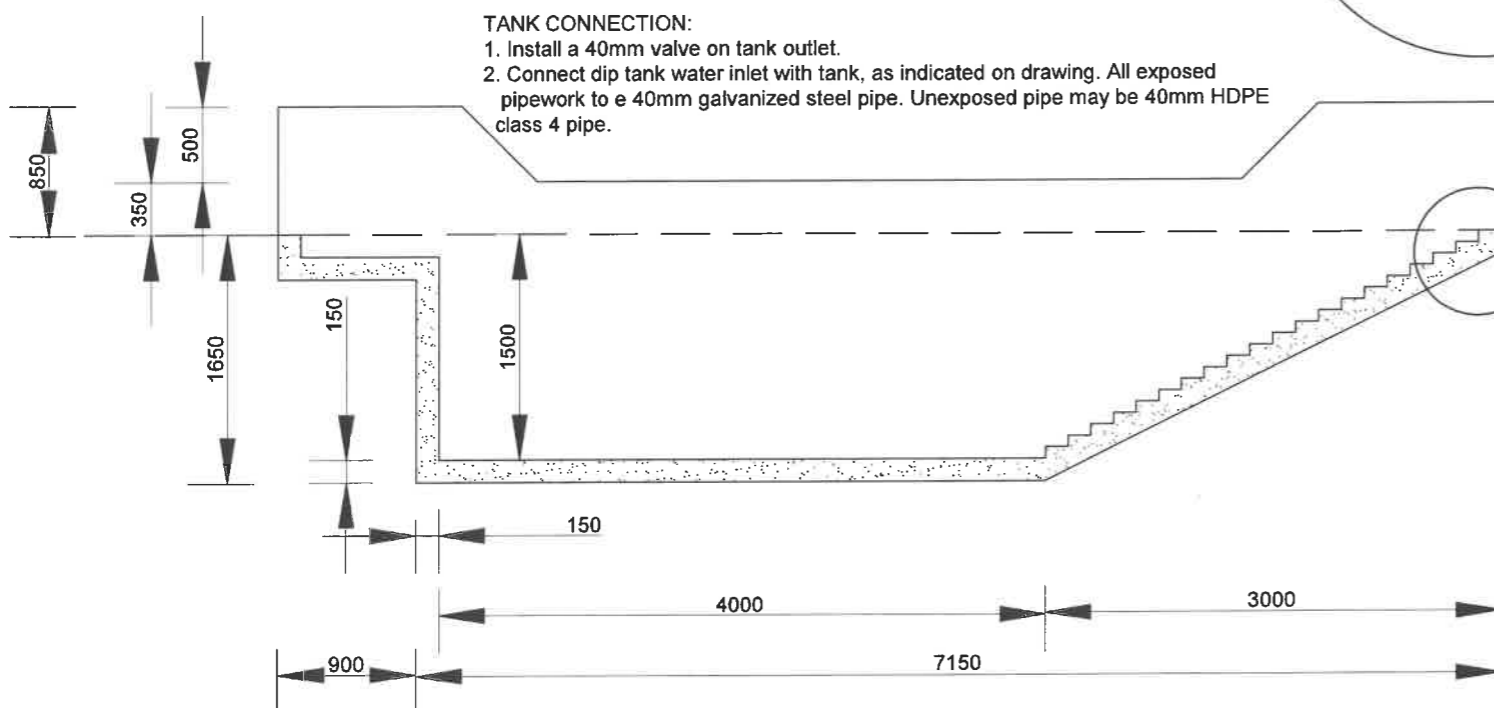
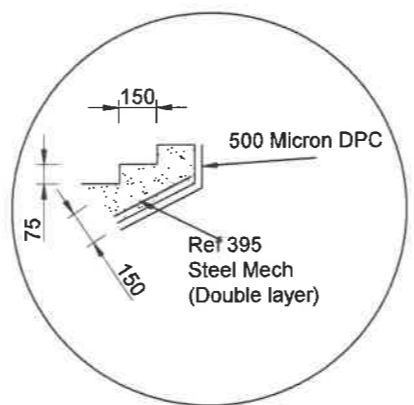
EVAPORATION POND
SCALE 1:50

DIP TANK:

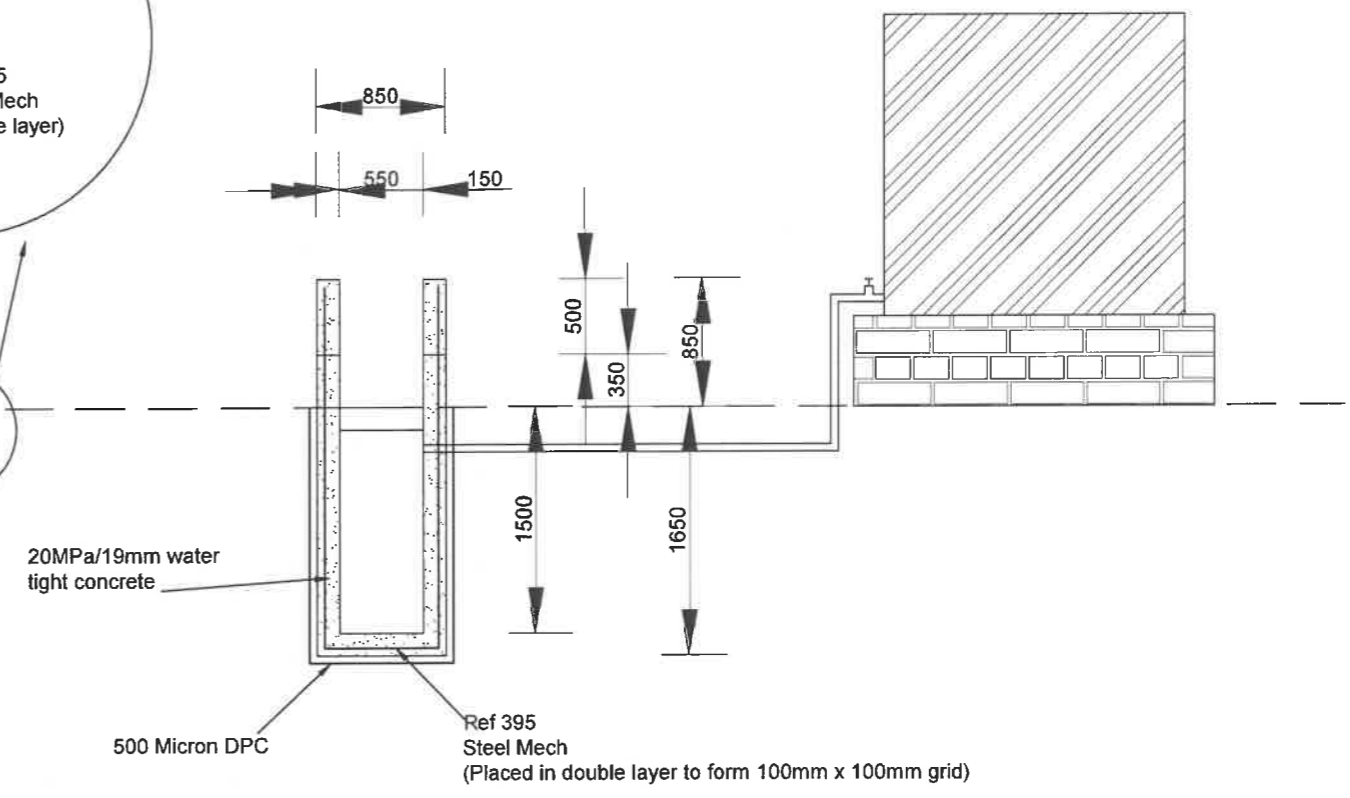
1. Dip tank excavation to be smooth and stone free.
2. Excavation to be lined seamlessly with 500 micron DPC.
3. A double layer of Ref 395 steel reinforcement sheets to be placed in centre of dip tank walls and floor. Sheets to be bind together in such a manner that the spacing between members are halved.
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.



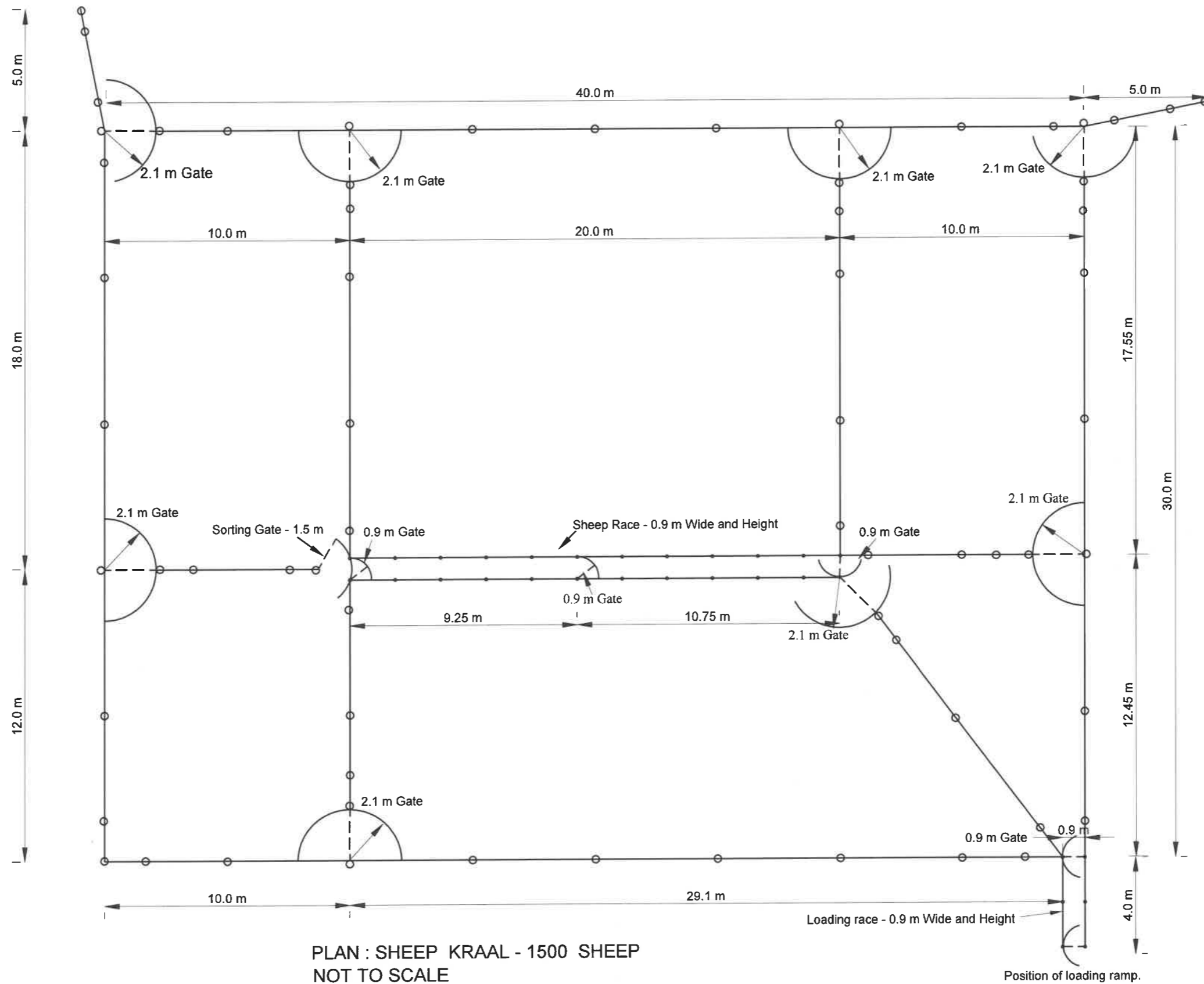
LONGITUNAL SECTION
SCALE 1:50



SECTION A-A
SCALE 1:50

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.
					NTS	SCMM-03/28/01
		OCTOBER 2024 (DATE APPROVED)	ENGINEERING SERVICES PRIVATE BAG X015 DOHNE ADI STUTTERHEIM 4930	PLAN AND SECTIONS	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)

OCTOBER 2024
(DATE APPROVED)

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

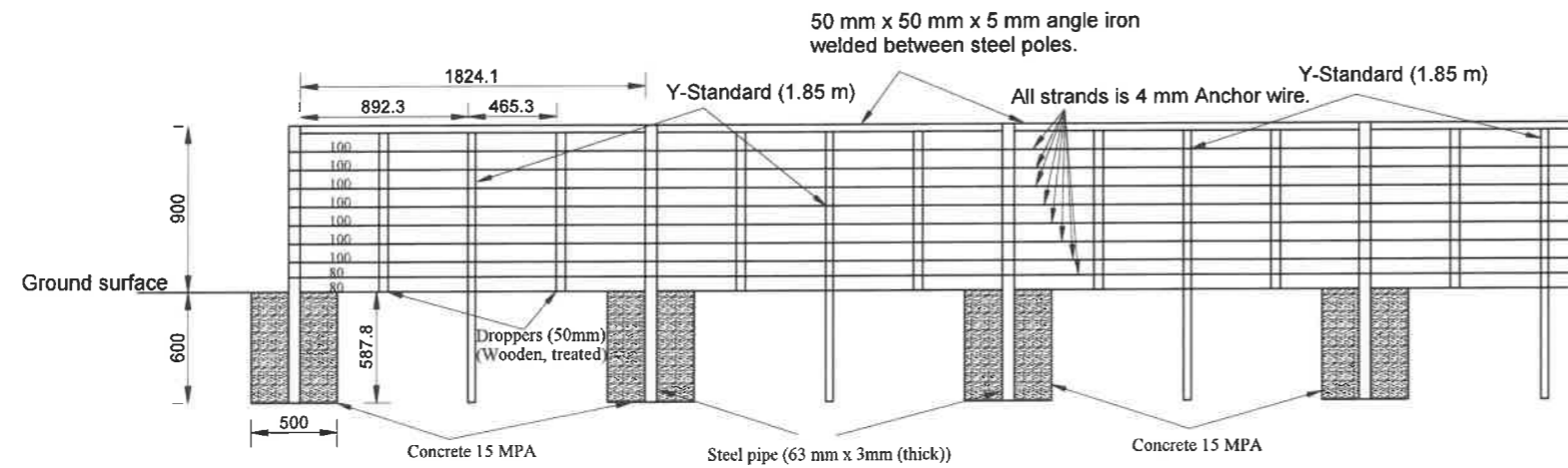
ENGINEERING SERVICES
PRIVATE BAG X015
DOHNE ADI
STUTTERHEIM
4930

SMALL STOCK HANDLING FACILITY

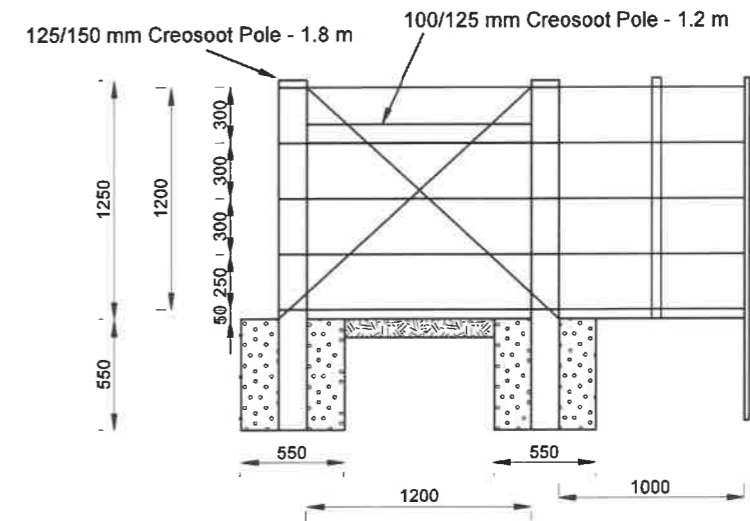
LAYOUT PLAN

SCALE NTS	INDEX NO. SCMM-03/29/01
A3 ORIGINAL	PLAN NO. SHEET 1 OF 2

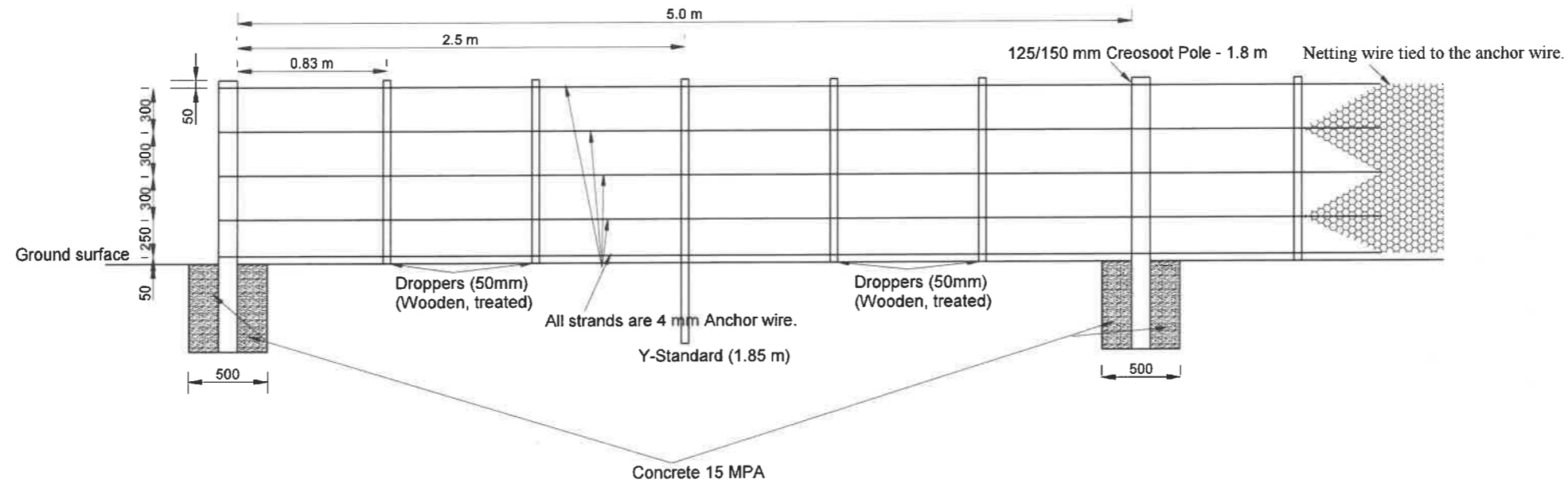
SHEEP KRAAL SPECS



RACE & LOADING RACE
NOT TO SCALE



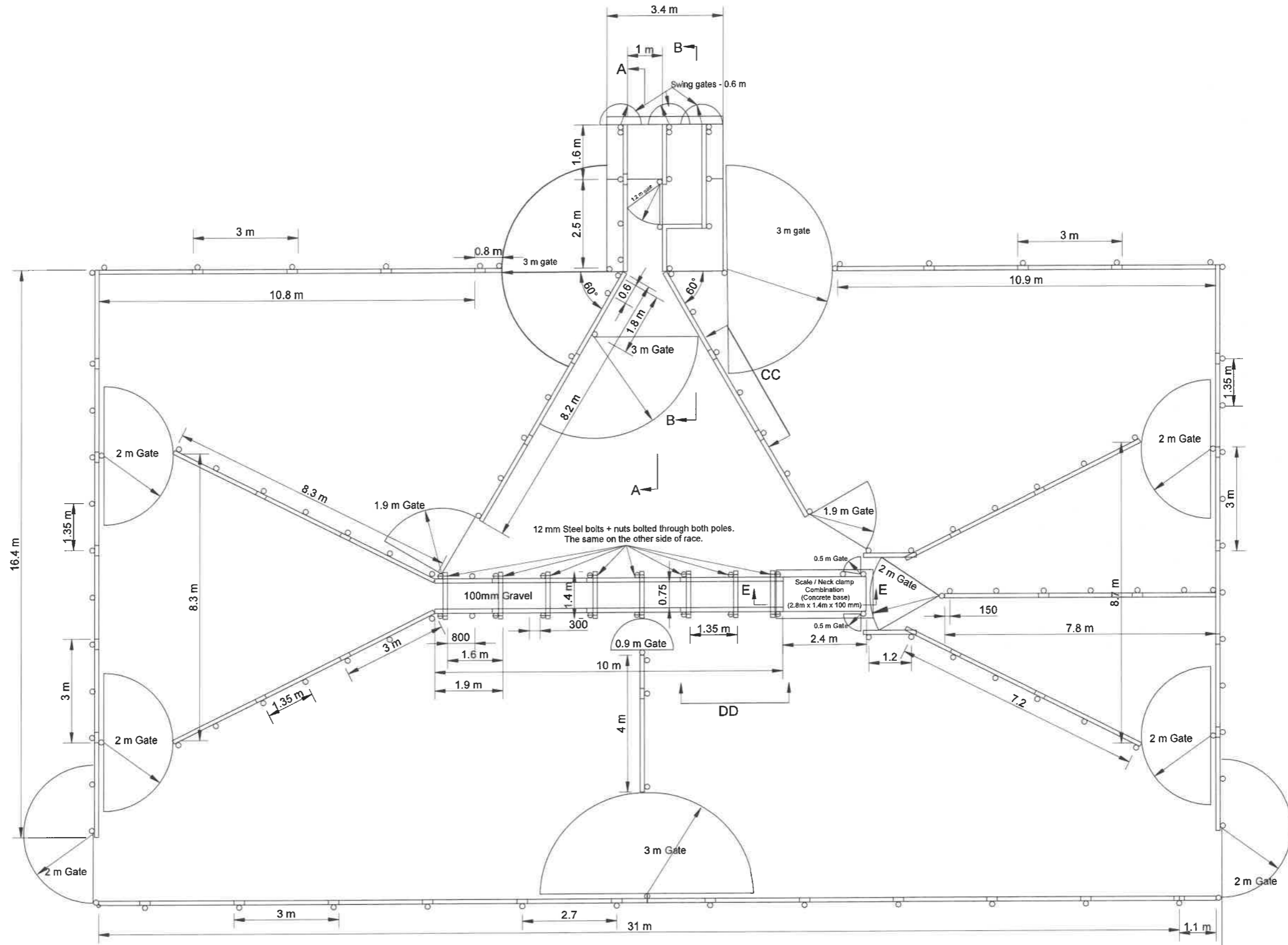
BOX ANCHOR
NOT TO SCALE



KRAAL FENCE
NOT TO SCALE

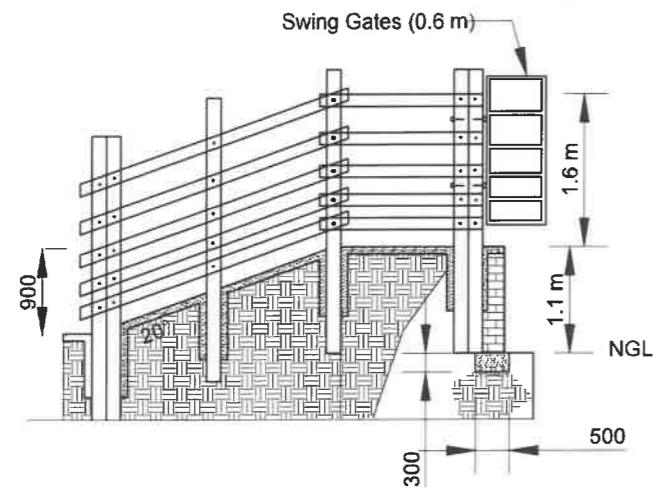
NO.	SPECIAL NOTES:	S KONDLO (CHIEF ENGINEER)	DEPARTMENT OF RURAL DEVELOPMENT AND AGRARIAN REFORM PROVINCE OF THE EASTERN CAPE	SMALL STOCK HANDLING FACILITY	SCALE	INDEX NO.
					NTS	SCMM-03/29/02
		OCTOBER 2024 (DATE APPROVED)	ENGINEERING SERVICES PRIVATE BAG X015 DOHNE ADI STUTTERHEIM 4930	DETAIL PLAN	A3 ORIGINAL	PLAN NO. SHEET 2 OF 2

30 LARGE STOCK HANDLING FACILITIES

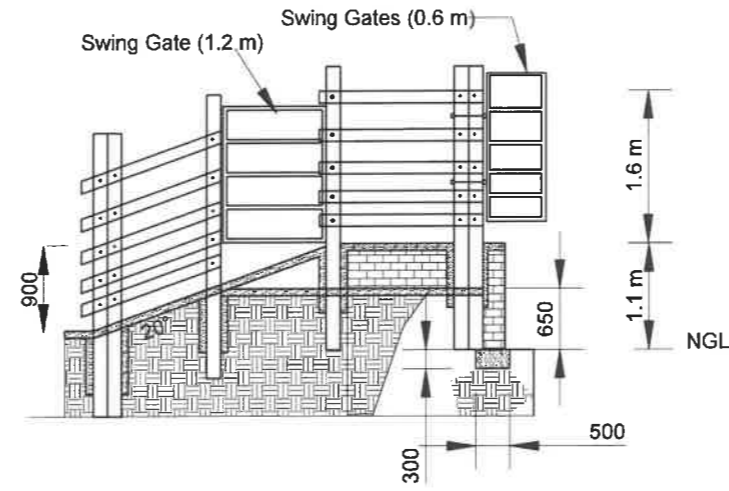


LAYOUT PLAN
NTS

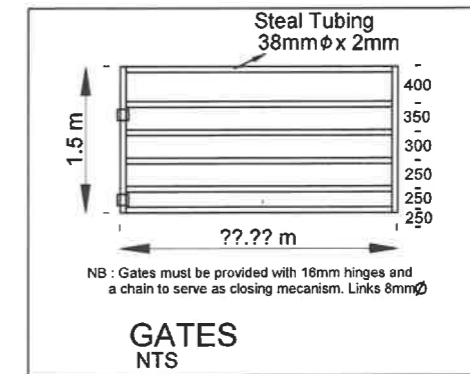
NO.	SPECIAL NOTES:	S KONDLO (CHIEF ENGINEER)	DEPARTMENT OF RURAL DEVELOPMENT AND AGRARIAN REFORM PROVINCE OF THE EASTERN CAPE	LARGE STOCK HANDLING FACILITY	SCALE	INDEX NO.			
	1. 12mm Threaded rods to be used on poles.				OCTOBER 2024 (DATE APPROVED)	ENGINEERING SERVICES PRIVATE BAG X015 DOHNE ADI STUTTERHEIM 4930	LAYOUT PLAN	NTS	SCMM-03/30/01
	2. 16mm Threaded rods to be used on gates.							A3 ORIGINAL	PLAN NO.
	3. Vertical posts to be of 125/150 creosote poles.								
4. Horizontal poles to be of 100/125 creosote poles.									



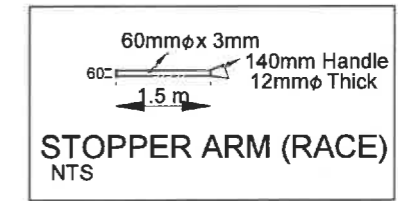
Section AA
NTS



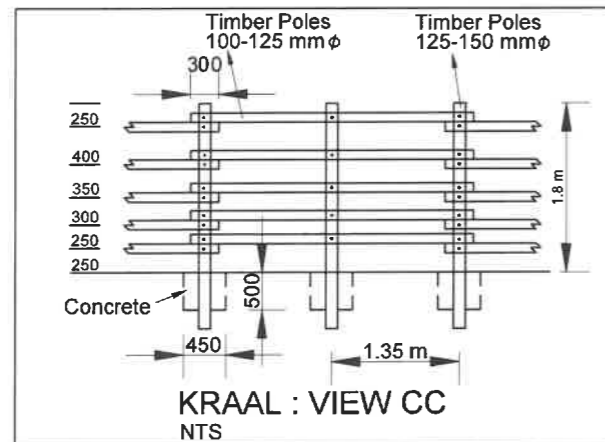
Section BB
NTS



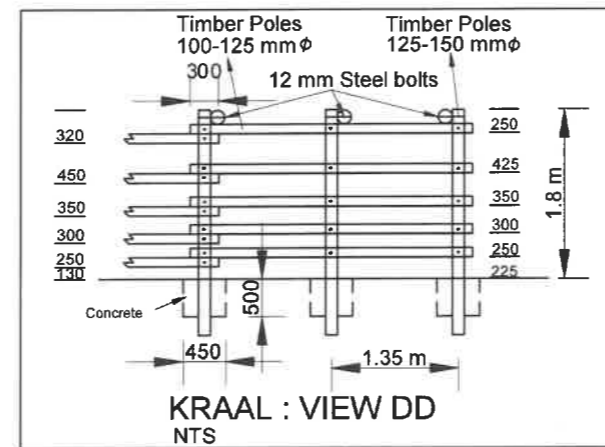
GATES
NTS



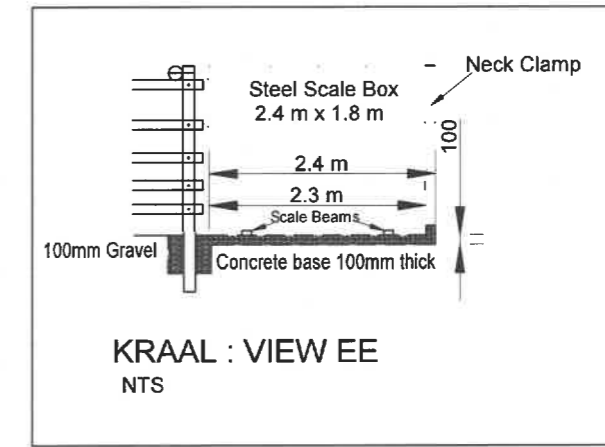
STOPPER ARM (RACE)
NTS



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

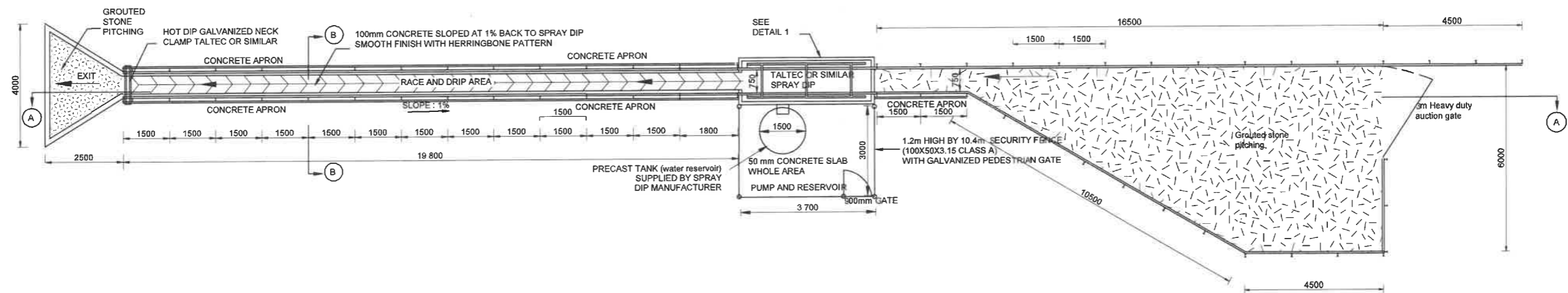
ENGINEERING SERVICES
PRIVATE BAG X015
DOHNE ADI
STUTTERHEIM
4930

LARGE STOCK HANDLING FACILITY

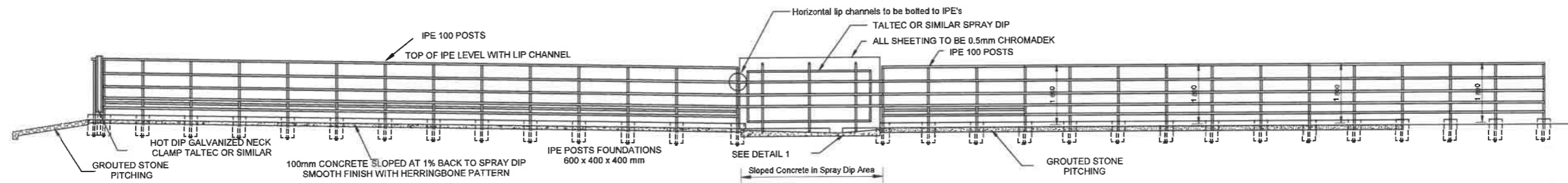
SECTIONS & DETAIL DRAWINGS

SCALE	INDEX NO.
NTS	SCMM-03/30/02
A3 ORIGINAL	PLAN NO.
	SHEET 2 OF 2

31 CATTLE SPAY RACE (STEEL)



SPRAY DIP LAYOUT
SCALE 1:150

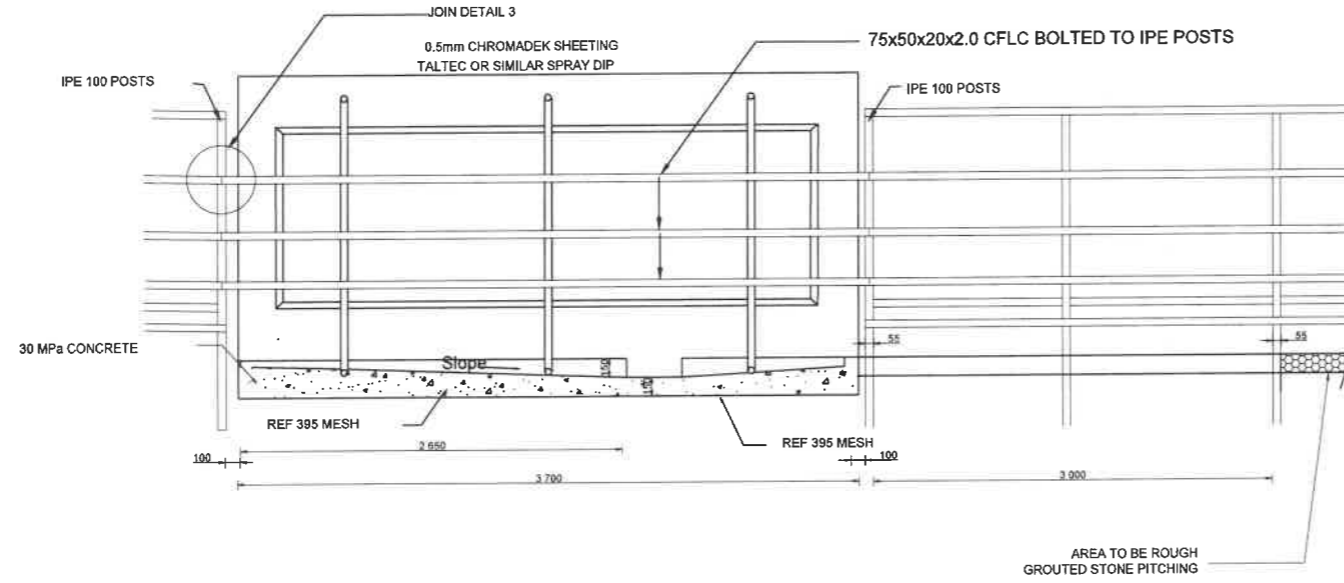


SECTION A-A
SCALE 1:150

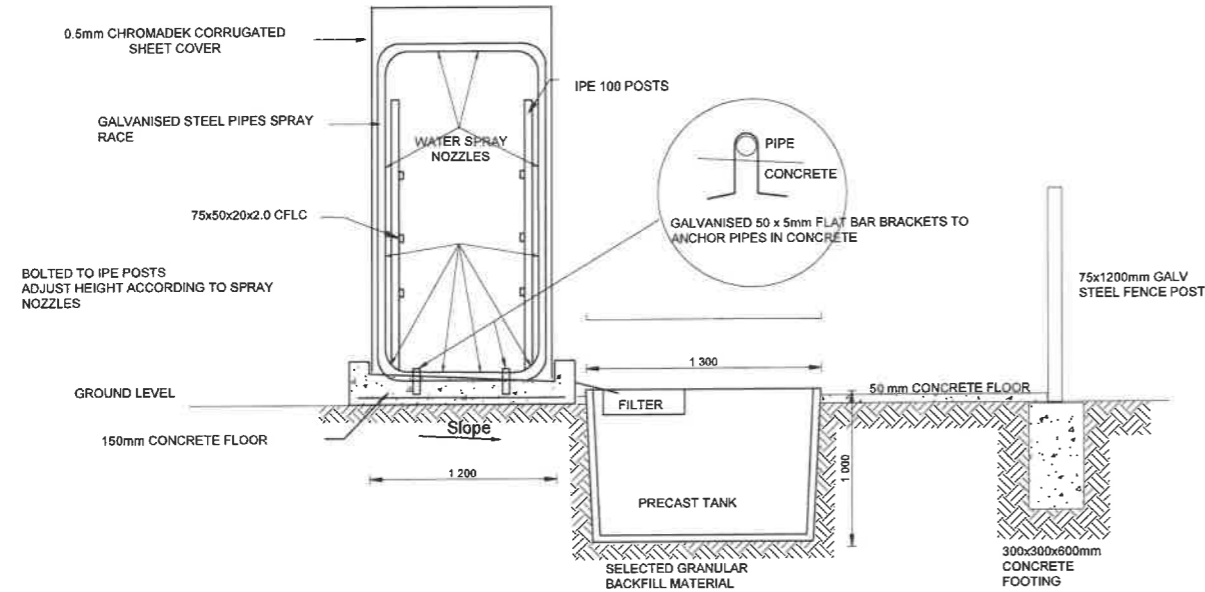
THIS OFFICE SHOULD BE NOTIFIED FOR INSPECTIONS AT THE FOLLOWING STAGES:

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

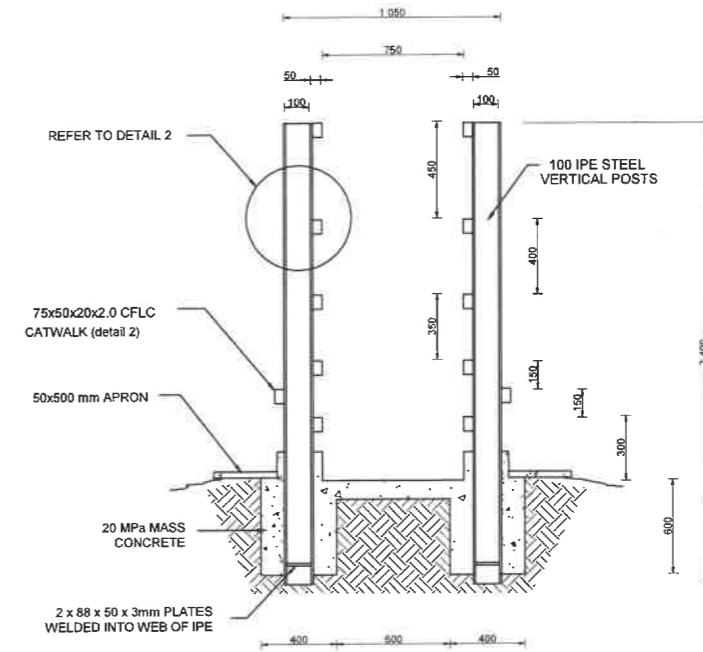
NO.	SPECIAL NOTES:	S KONDLO (CHIEF ENGINEER)	DEPARTMENT OF RURAL DEVELOPMENT AND AGRARIAN REFORM PROVINCE OF THE EASTERN CAPE	CATTLE SPRAY DIP RACE (STEEL)	SCALE	INDEX NO.
		OCTOBER 2024 (DATE APPROVED)	ENGINEERING SERVICES PRIVATE BAG X015 DOHNE ADI STUTTERHEIM 4930	SITE LAYOUT PLAN	A3 ORIGINAL	PLAN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



SECTION C-C

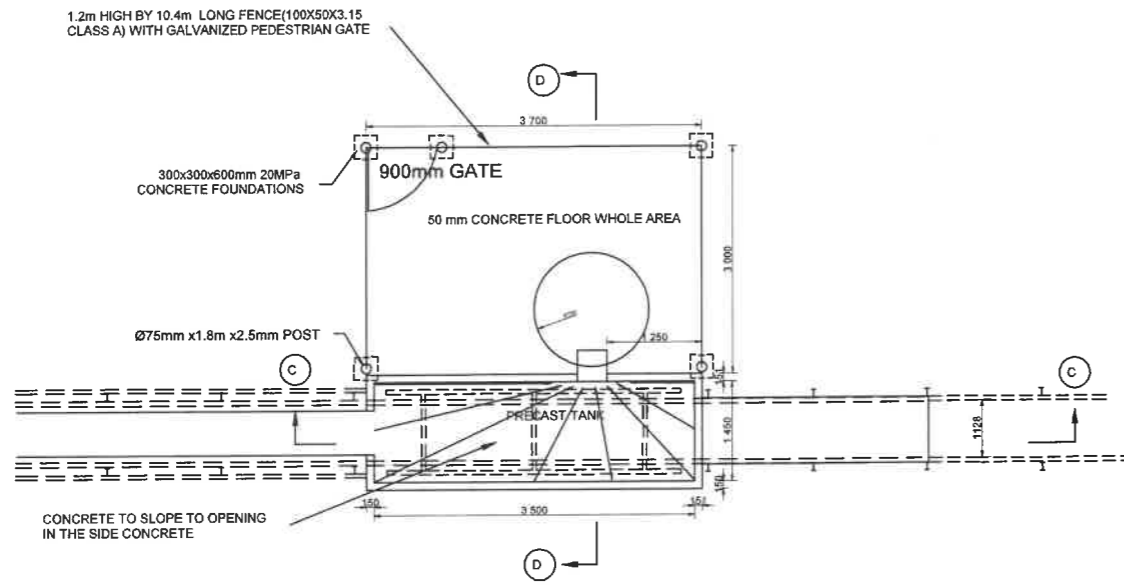


SECTION D-D

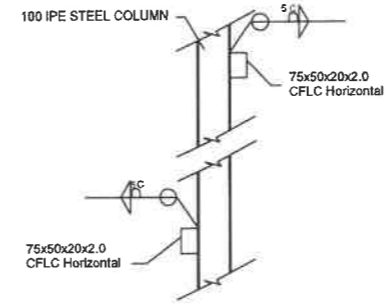


SECTION B-B

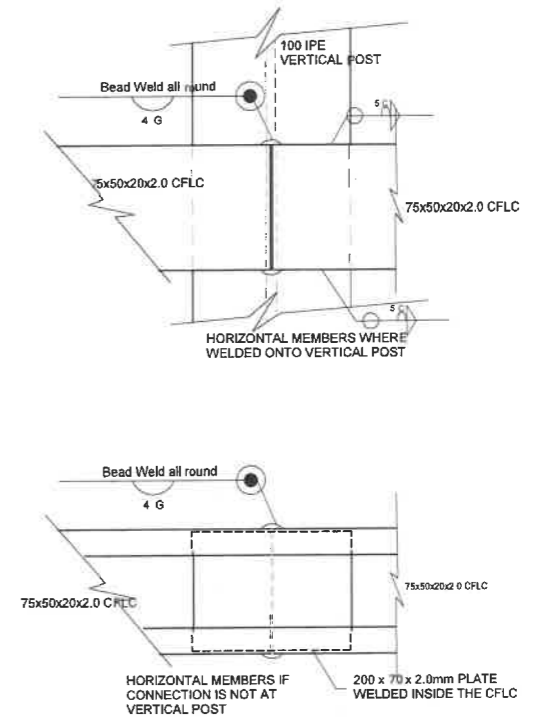
NO.	SPECIAL NOTES:	S KONDLO (CHIEF ENGINEER)	DEPARTMENT OF RURAL DEVELOPMENT AND AGRARIAN REFORM PROVINCE OF THE EASTERN CAPE	CATTLE SPRAY DIP RACE (STEEL)	SCALE NTS	INDEX NO. SCMM-03/31/02
		OCTOBER 2024 (DATE APPROVED)	ENGINEERING SERVICES PRIVATE BAG X015 DOHNE ADI STUTTERHEIM 4930	DETAILS 1	A3 ORIGINAL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



DETAIL 1

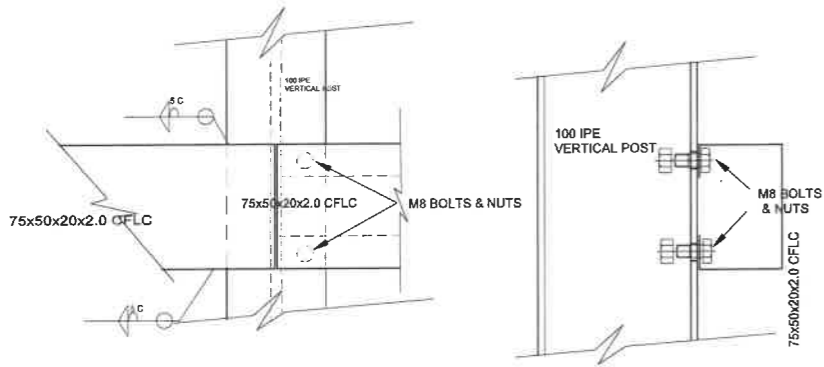


DETAIL 2

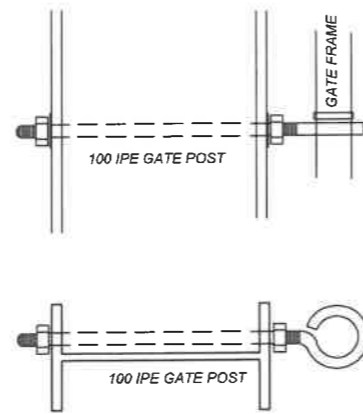


JOIN DETAIL

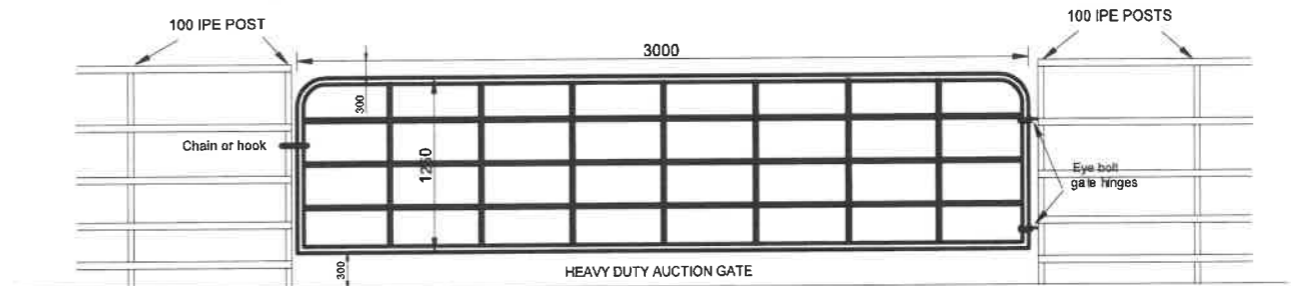
WELDING
 ALL HORIZONTAL COLD FORM LIP CHANNELS MUST BE ARC WELDED TO THE VERTICAL 100 IPE's
 ELECTRODE CLASSIFICATION - E60XX (ELECTRODES MUST COMPLY WITH SABS 0162-1:1993)
 WELDING MUST COMPLY WITH THE STANDARDS AS SET OUT IN SABS 044: 1963
 YIELD STRENGTH - 413 MPa
 TENSILE STRENGTH - 480 MPa



JOIN DETAIL 3

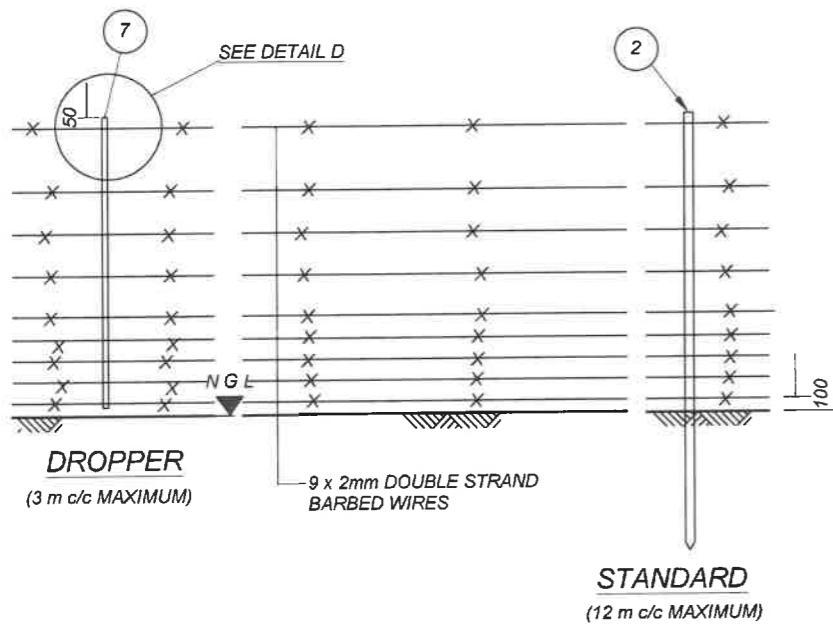


GATE HINGE EYE BOLT

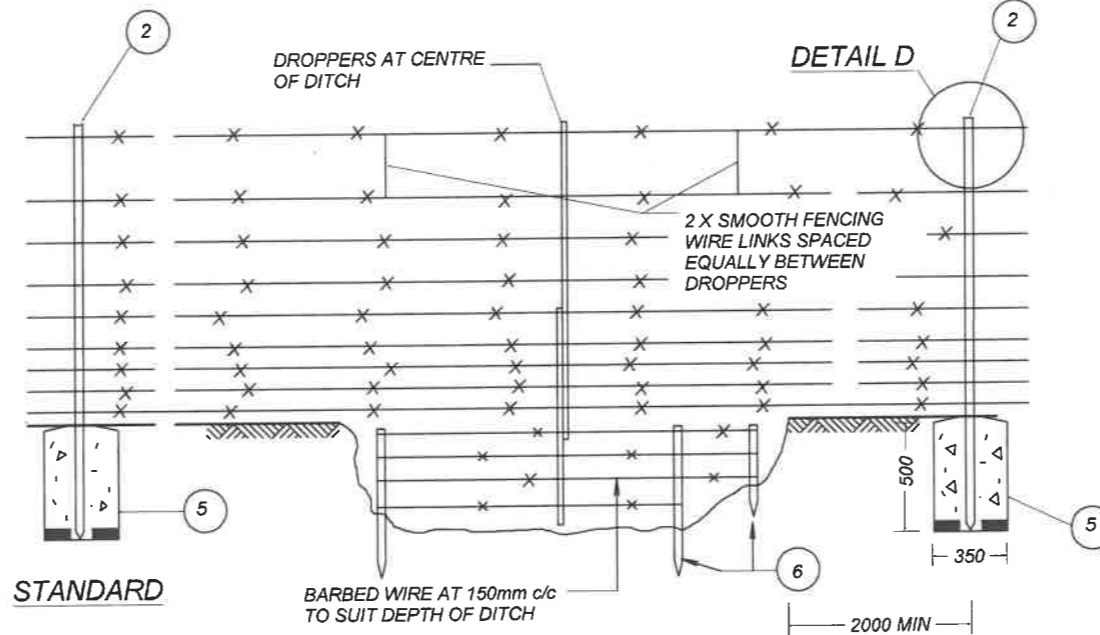


GATE DETAIL

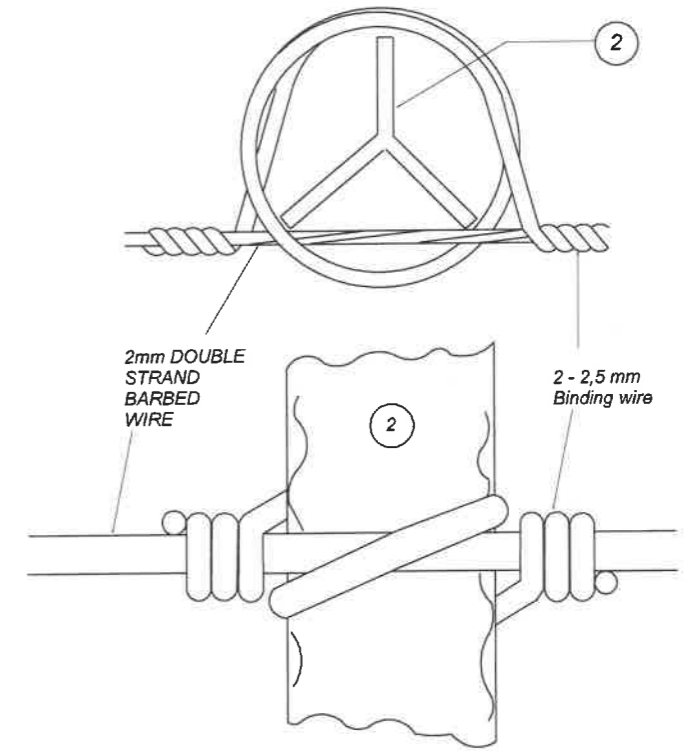
NO.	SPECIAL NOTES:	S KONDLO (CHIEF ENGINEER)	DEPARTMENT OF RURAL DEVELOPMENT AND AGRARIAN REFORM PROVINCE OF THE EASTERN CAPE	CATTLE SPRAY DIP RACE (STEEL)	SCALE NTS	INDEX NO. SCMM-03/31/03
		OCTOBER 2024 (DATE APPROVED)	ENGINEERING SERVICES PRIVATE BAG X015 DOHNE ADI STUTTERHEIM 4930	DETAILS 2	A3 ORIGINAL	PLAN NO. SHEET 3 OF 6



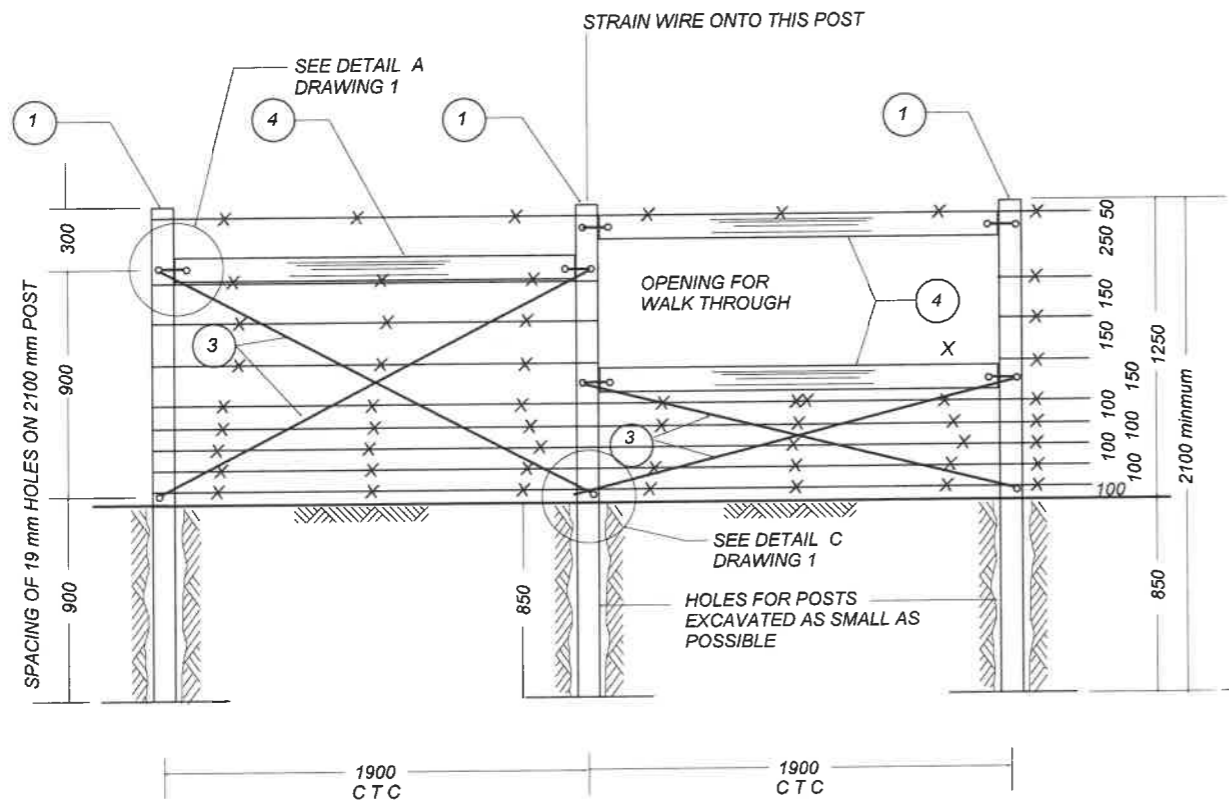
STOCK PROOF FENCE



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)

OCTOBER 2024
(DATE APPROVED)

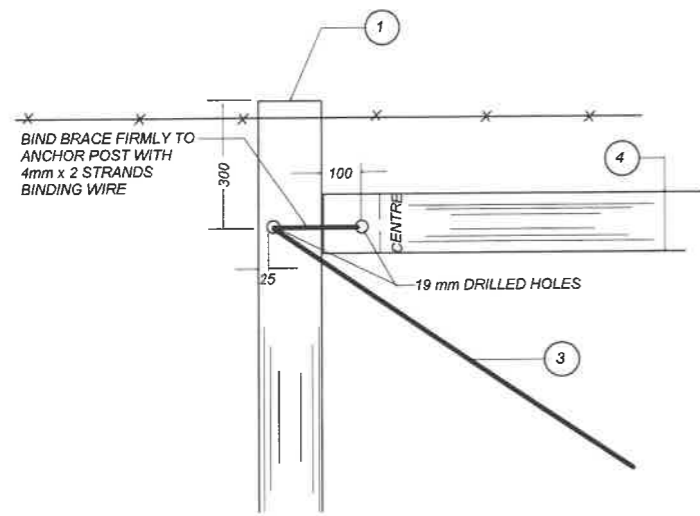
**DEPARTMENT OF RURAL DEVELOPMENT AND AGRARIAN REFORM
PROVINCE OF THE EASTERN CAPE**

ENGINEERING SERVICES
PRIVATE BAG X015
DOHNE ADI
STUTTERHEIM
4930

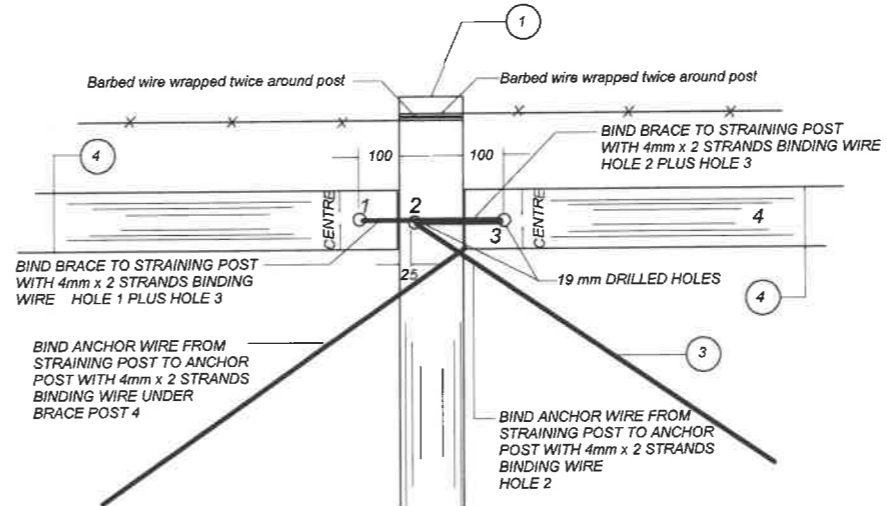
**STANDARD SPRAY DIP
(STEEL)**

POND FENCE - 1

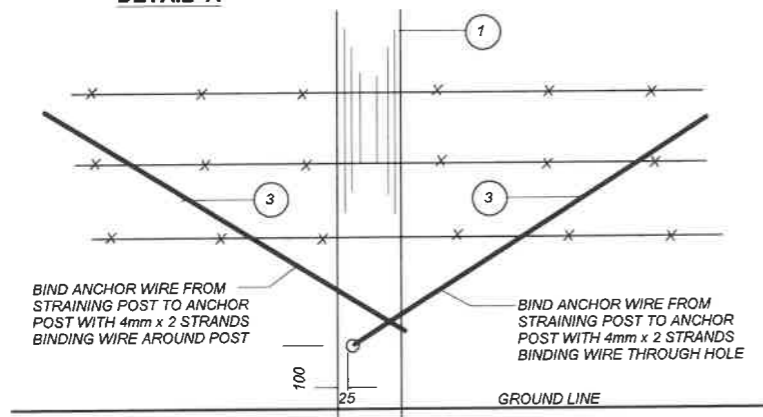
SCALE NTS	INDEX NO. SCMM-03/1/04
A3 ORIGINAL	PLAN NO. SHEET 4 OF 6



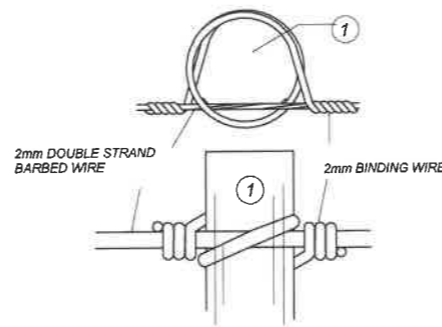
DETAIL A



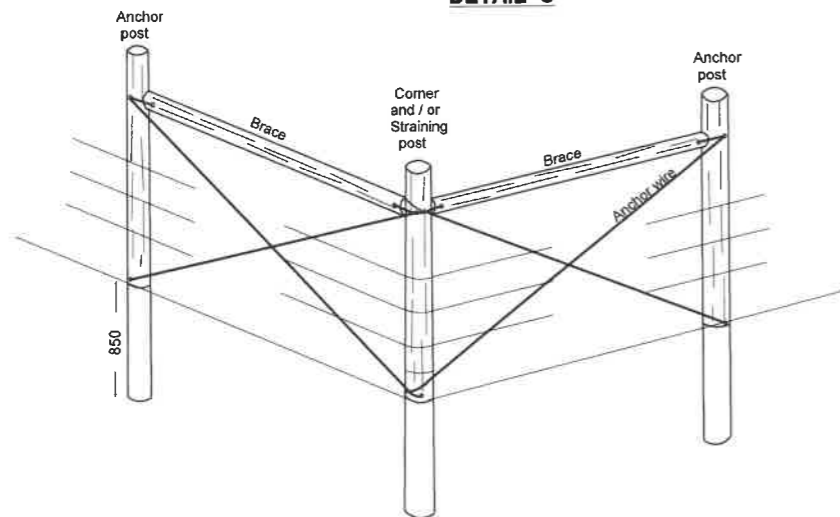
DETAIL B



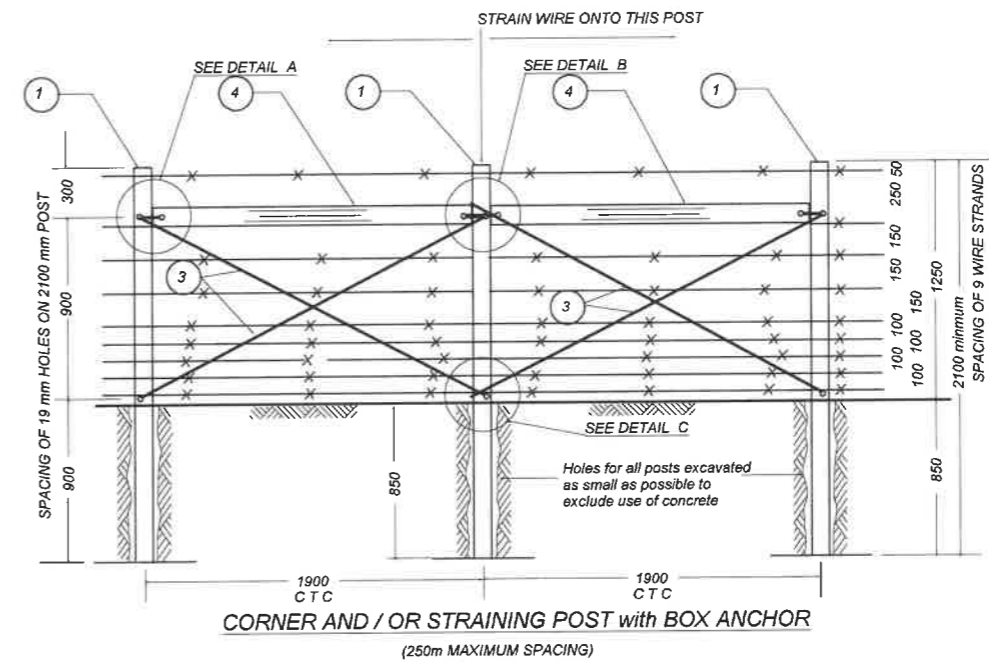
DETAIL C



DETAIL D



CORNER WITH BOX ANCHOR



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

LEGEND

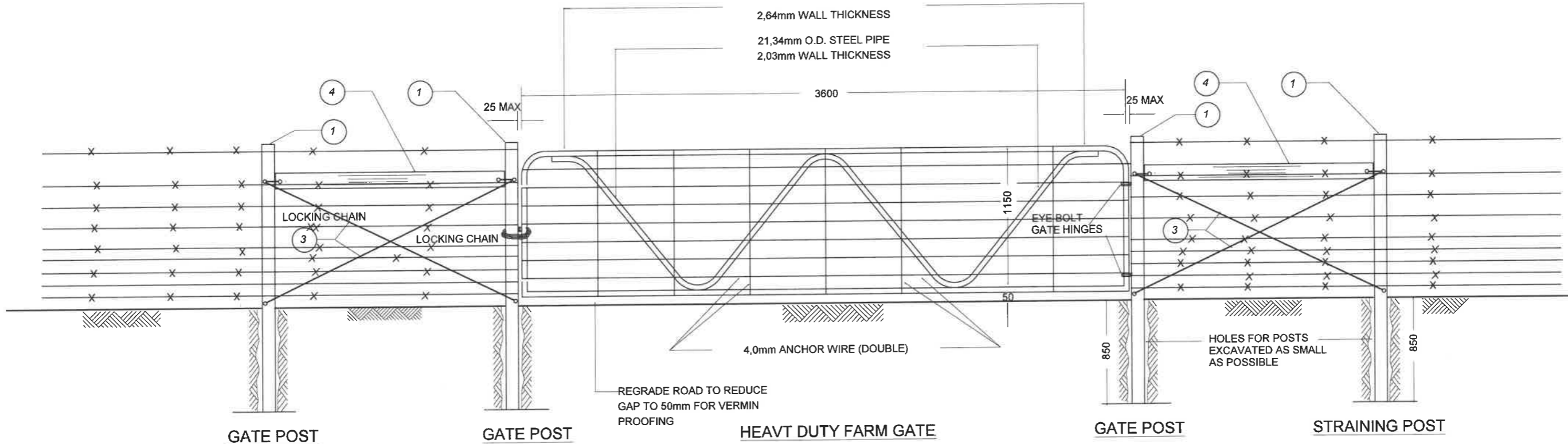
- ① 125 - 150mm TOP DIAMETER x 2100 mm TREATED TIMBER POST CORNER, STRAINING AND ANCHOR POSTS
- ③ 4mm x 4 STRANDS TWISTED SOFT GALVANISED BINDING WIRE
- ④ 100 - 125mm TOP DIAMETER x 1800 mm TREATED TIMBER POST BRACES IN BOX ANCHORS

NOTES:

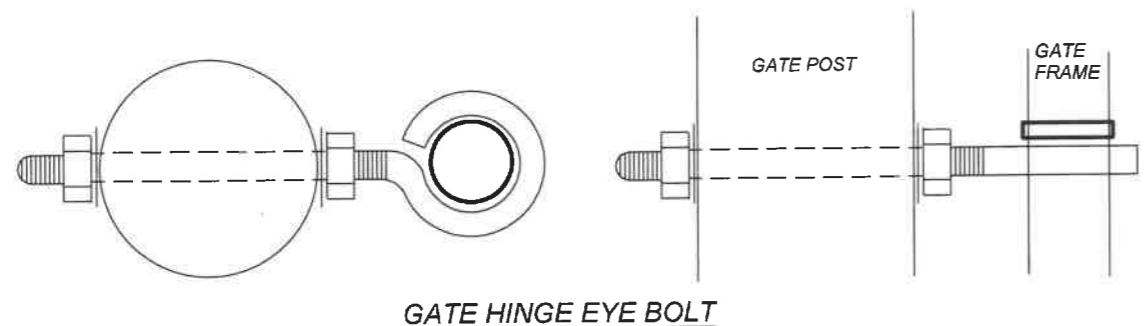
1. THIS DRAWING TO BE READ IN CONJUNCTION WITH THE PROJECT PARTICULAR SPECIFICATIONS FOR FENCES

NGL NATURAL GROUND LEVEL

NO.	SPECIAL NOTES:	S KONDLO (CHIEF ENGINEER)	DEPARTMENT OF RURAL DEVELOPMENT AND AGRARIAN REFORM PROVINCE OF THE EASTERN CAPE	STANDARD SPRAY DIP (STEEL)	SCALE	INDEX NO.
					NTS	SCMM-03/31/05
		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

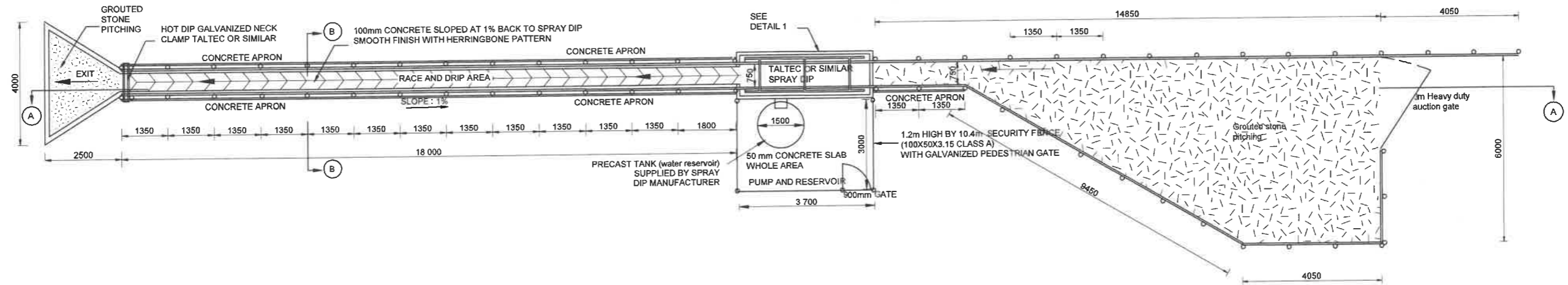
- ① — 125 - 150mm TOP DIAMETER x 2100 mm TREATED TIMBER POST CORNER, STRAINING, GATE AND ANCHOR POSTS
- ③ — 4mm x 4 STRANDS TWISTED SOFT GALVANISED BINDING WIRE
- ④ — 100 - 125mm TOP DIAMETER x 1800 mm TREATED TIMBER POST BRACES IN BOX ANCHORS

NGL — NATURAL GROUND LEVEL

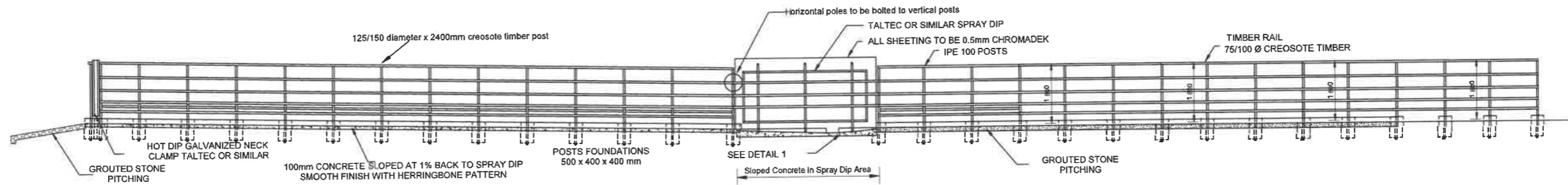
NOTES:
THIS DRAWING TO BE READ IN CONJUNCTION WITH THE PROJECT PARTICULAR SPECIFICATIONS FOR FENCES

NO.	SPECIAL NOTES:	S KONDLO (CHIEF ENGINEER)	DEPARTMENT OF RURAL DEVELOPMENT AND AGRARIAN REFORM PROVINCE OF THE EASTERN CAPE	STANDARD SPRAY DIP (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)

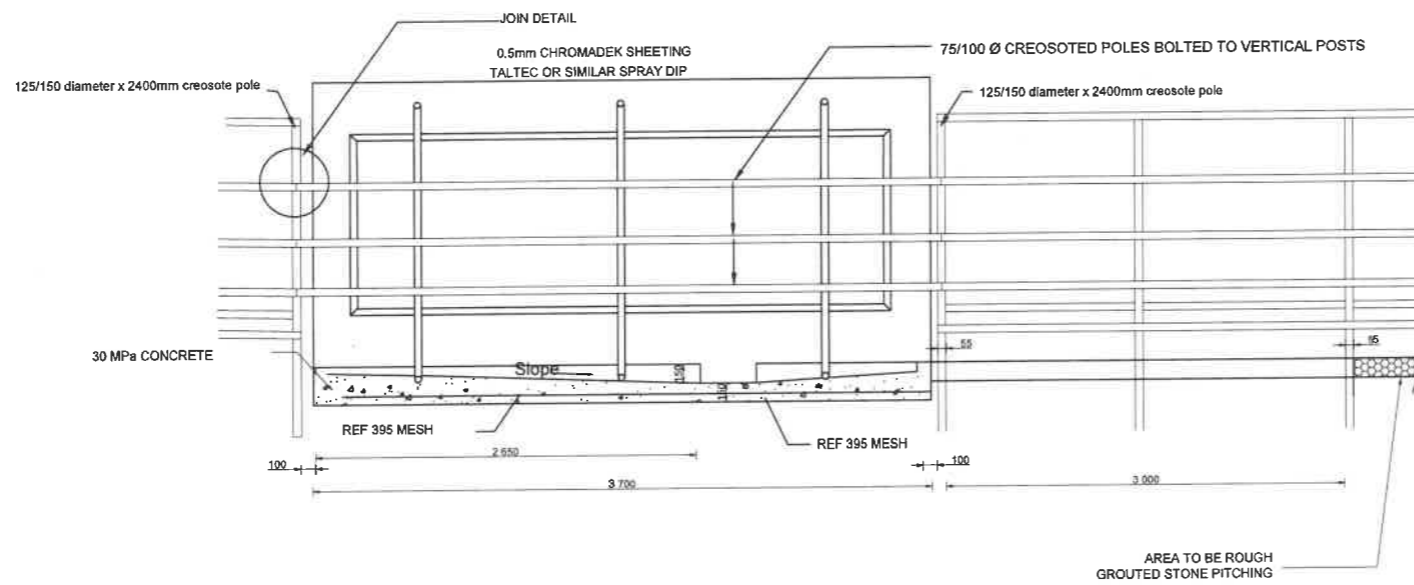


SECTION A-A
SCALE 1:150 (A3)

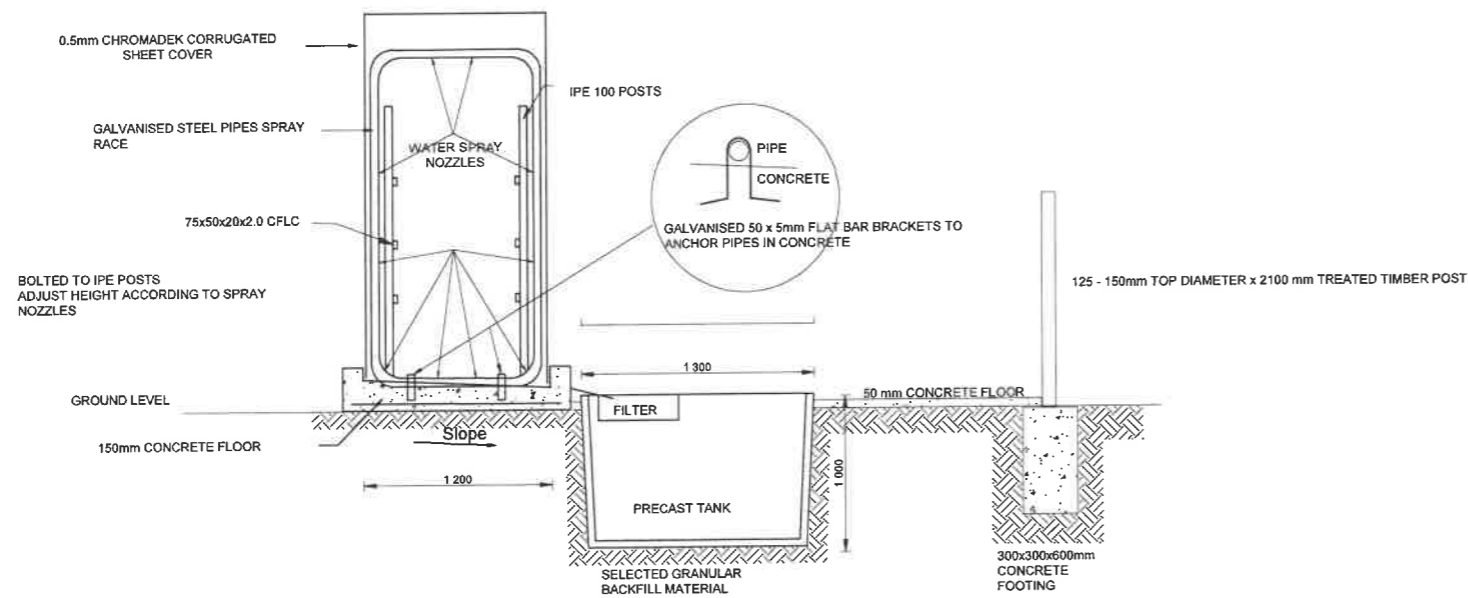
THIS OFFICE SHOULD BE NOTIFIED FOR INSPECTIONS AT THE FOLLOWING STAGES:

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

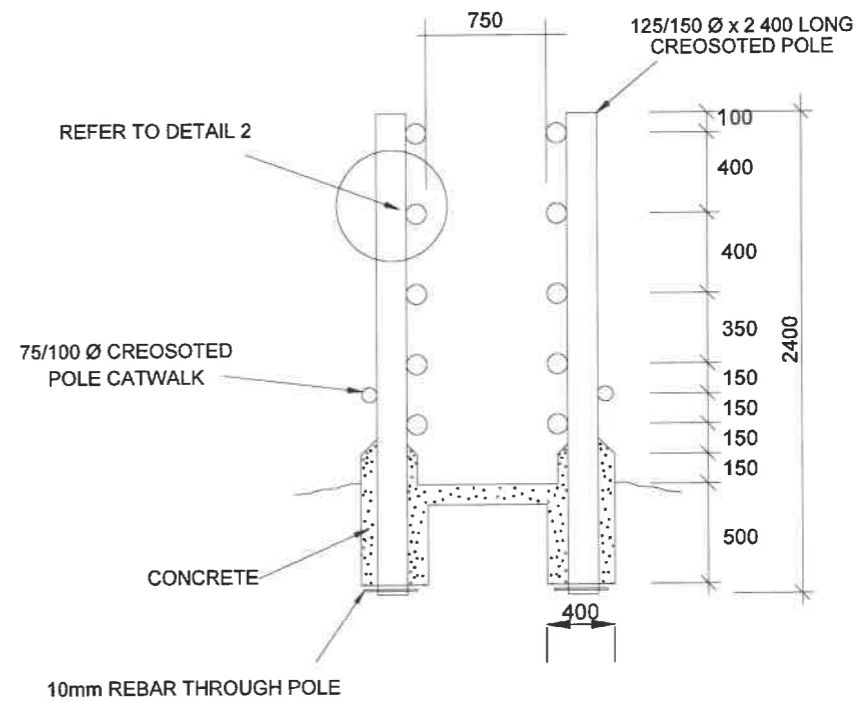
NO.	SPECIAL NOTES:	S KONDLO (CHIEF ENGINEER)	DEPARTMENT OF RURAL DEVELOPMENT AND AGRARIAN REFORM PROVINCE OF THE EASTERN CAPE	CATTLE SPRAY DIP RACE (TIMBER)	SCALE NTS	INDEX NO. SCMM-03/32/01
		OCTOBER 2024 (DATE APPROVED)	ENGINEERING SERVICES PRIVATE BAG X015 DOHNE ADI STUTTERHEIM 4930	SITE LAYOUT	A3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



SECTION C-C

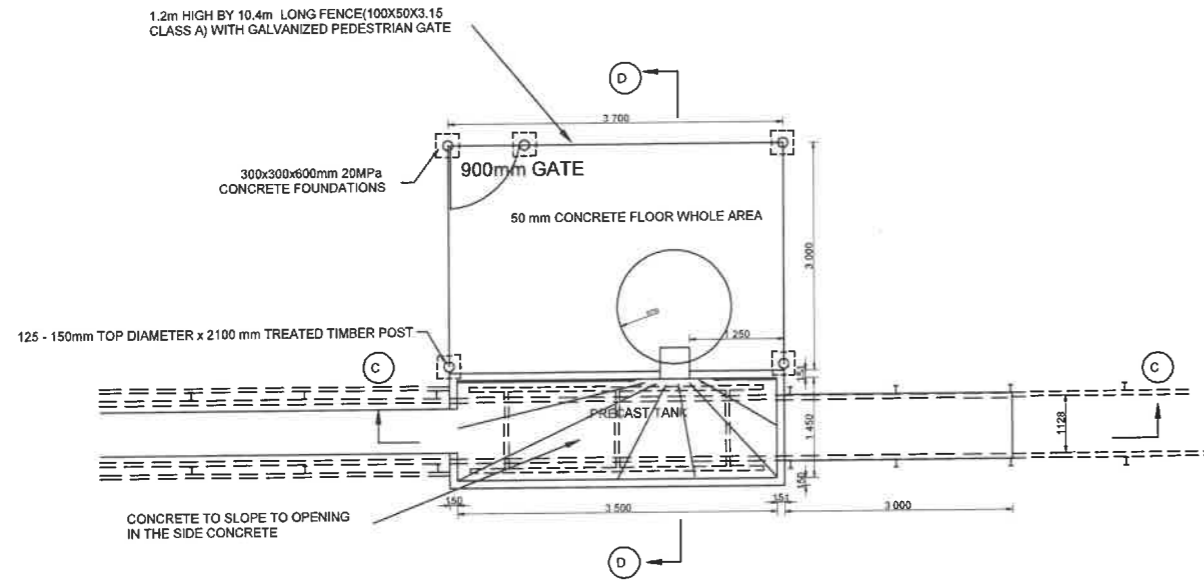


SECTION D-D

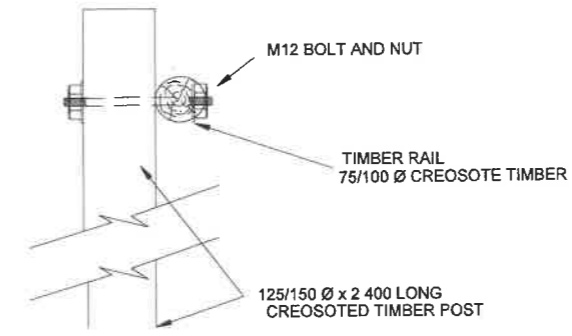


SECTION B-B

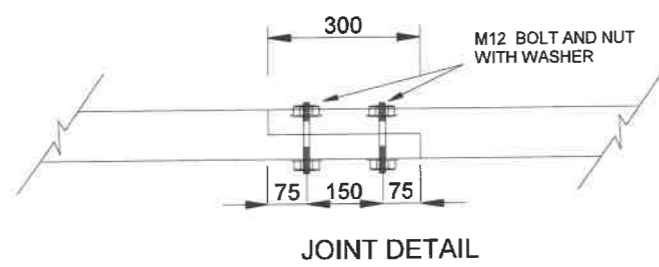
NO.	SPECIAL NOTES:	S KONDLO (CHIEF ENGINEER)	DEPARTMENT OF RURAL DEVELOPMENT AND AGRARIAN REFORM PROVINCE OF THE EASTERN CAPE	CATTLE SPRAY DIP RACE (TIMBER)	SCALE NTS	INDEX NO. SCMM-03/32/02
				DETAILS 1	A3 ORIGINAL	PLAN NO. SHEET 2 OF 6
		OCTOBER 2024 (DATE APPROVED)	ENGINEERING SERVICES PRIVATE BAG X015 DOHNE ADI STUTTERHEIM 4930			



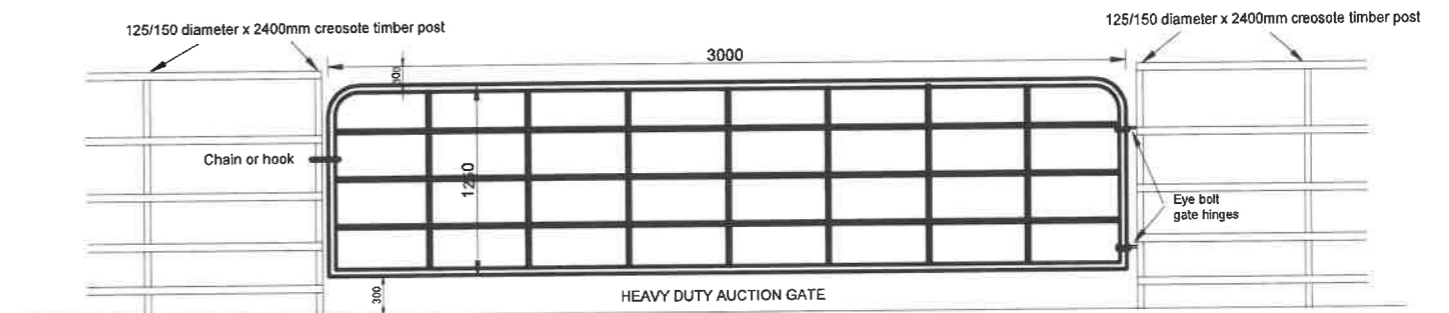
DETAIL 1



DETAIL 2

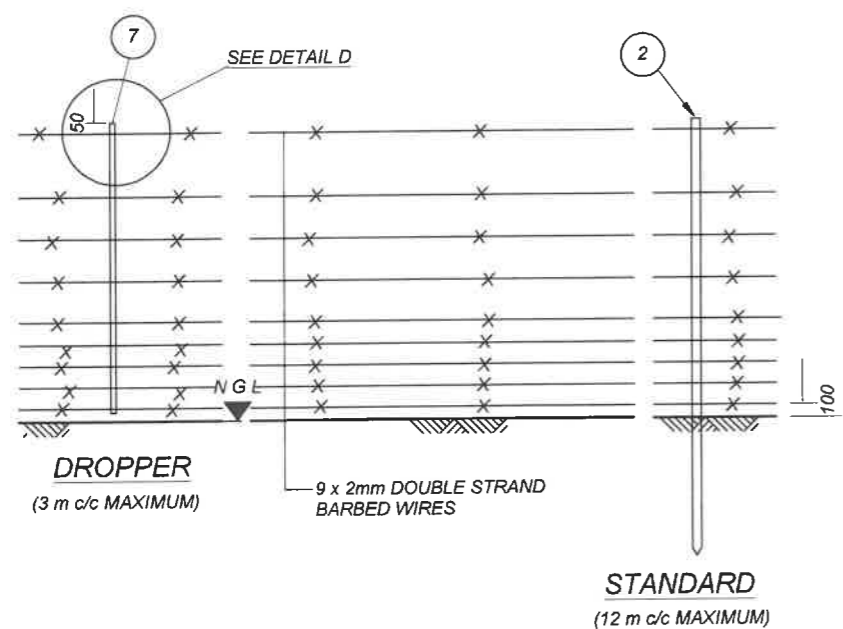


JOINT DETAIL

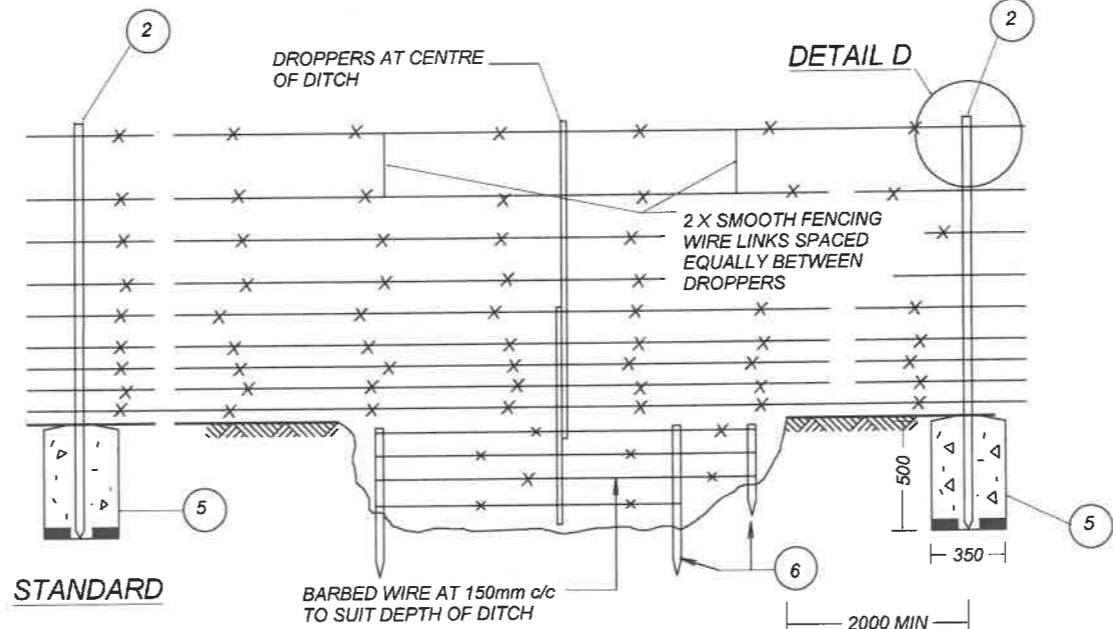


GATE DETAIL

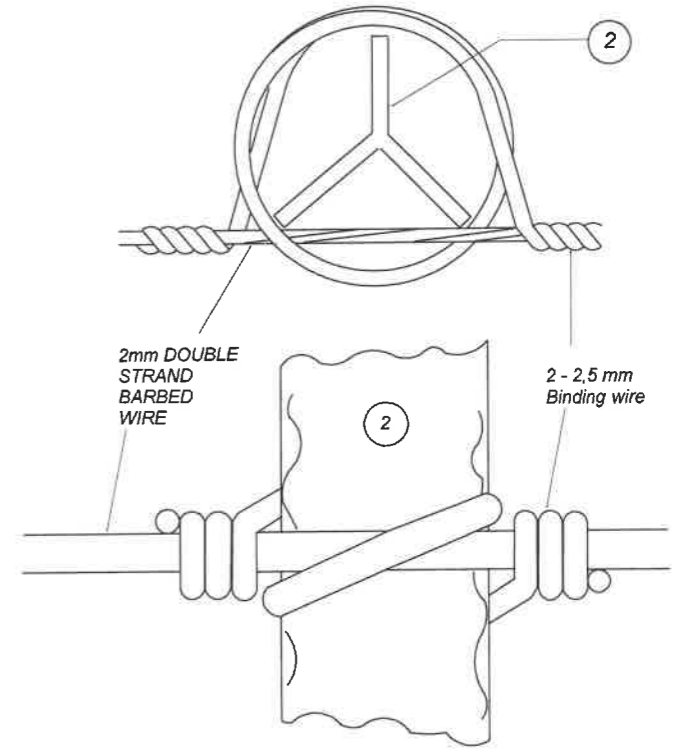
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				DETAILS 2	A3 ORIGINAL	PLAN NO. SHEET 3 OF 3
		OCTOBER 2024 (DATE APPROVED)	ENGINEERING SERVICES PRIVATE BAG X015 DOHNE ADI STUTTERHEIM 4930			



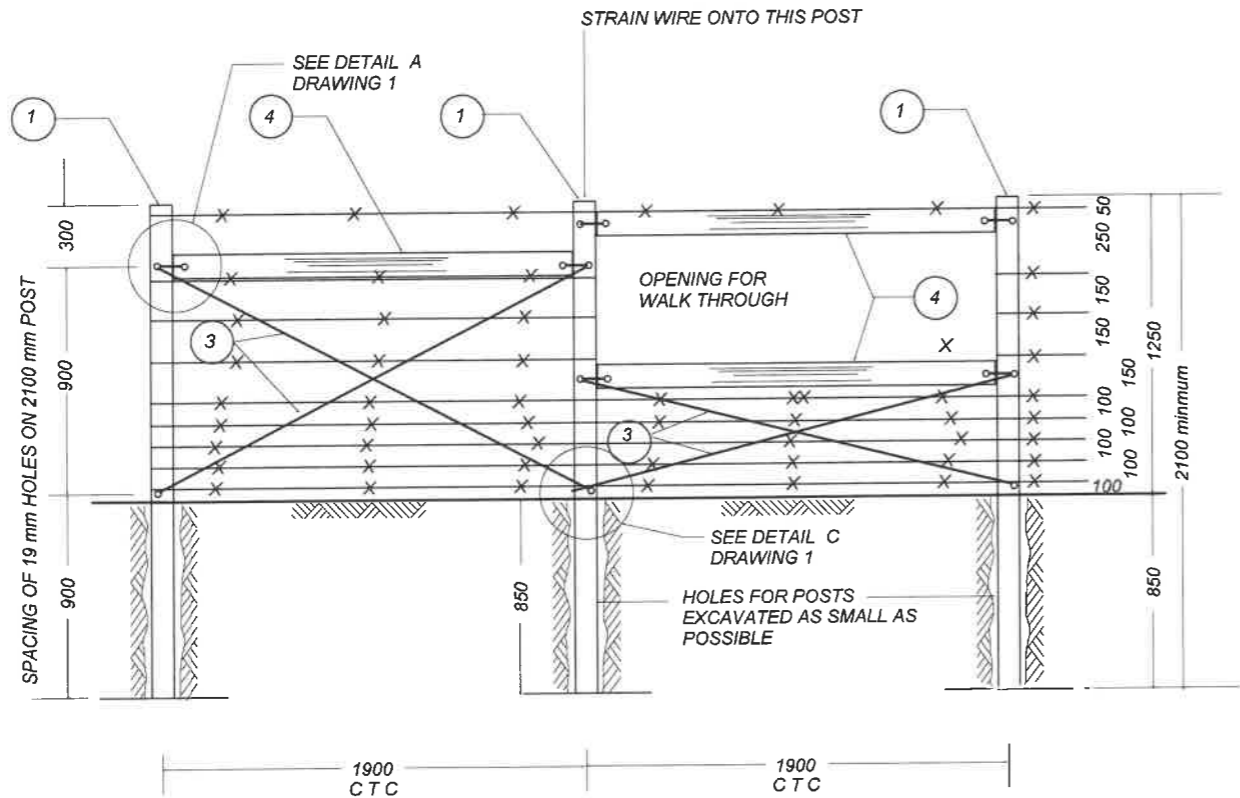
STOCK PROOF FENCE



CROSSING CANALS AND TRENCHES



DETAIL D



STRAINING POST with BOX ANCHOR WALKTHROUGH

(250m MAXIMUM SPACING)

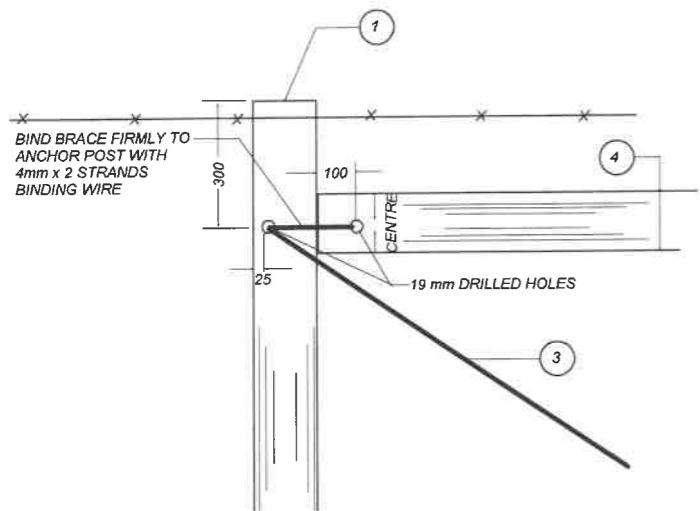
LEGEND

- 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

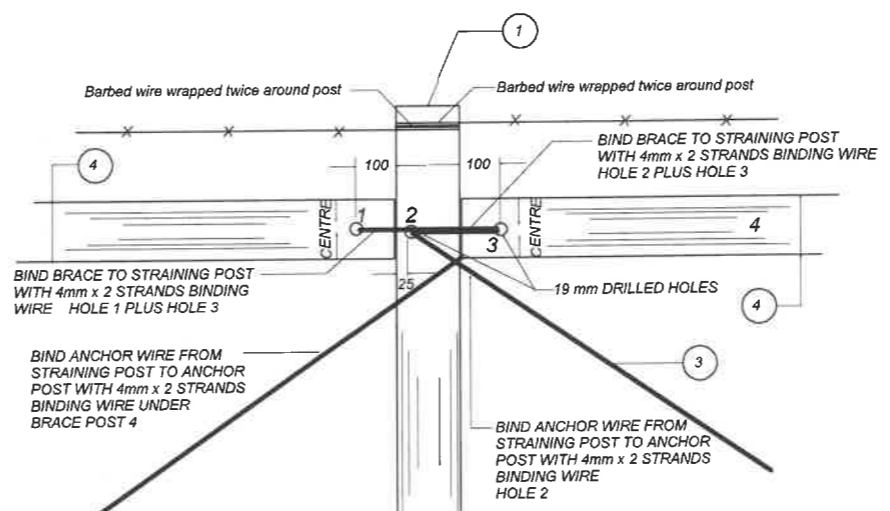
NGL NATURAL GROUND LEVEL

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

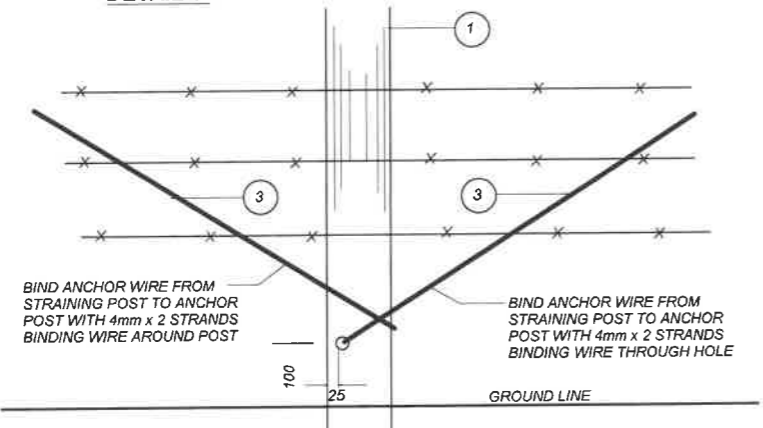
NO.	SPECIAL NOTES:	S KONDLO (CHIEF ENGINEER)	DEPARTMENT OF RURAL DEVELOPMENT AND AGRARIAN REFORM PROVINCE OF THE EASTERN CAPE ENGINEERING SERVICES PRIVATE BAG X015 DOHNE ADI STUTTERHEIM 4930	STANDARD SPRAY DIP (TIMBER)	SCALE	INDEX NO.
		OCTOBER 2024 (DATE APPROVED)			NTS	SCMM-03/32/04
					A3 ORIGINAL	PLAN NO.
					POND FENCE - 1	SHEET 4 OF 6



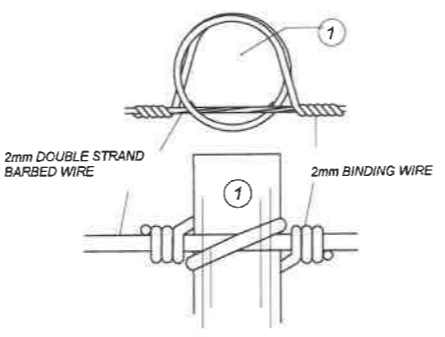
DETAIL A



DETAIL B



DETAIL C



DETAIL D

LEGEND

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

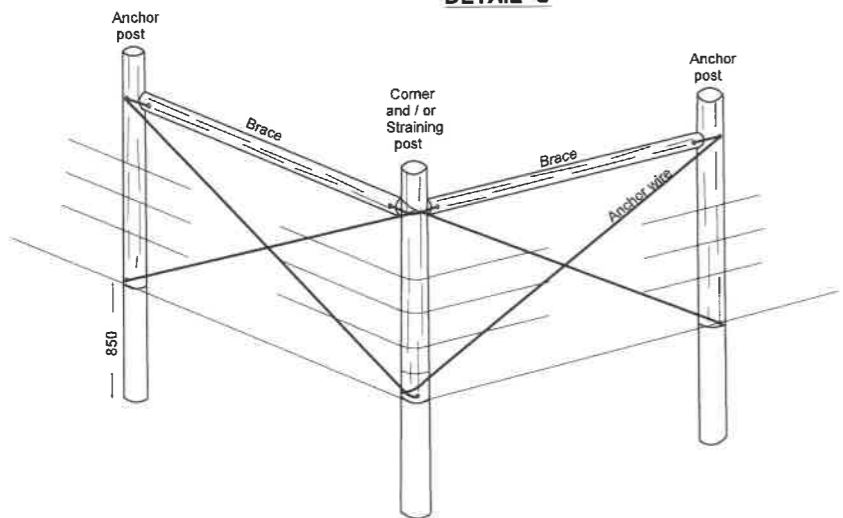
3
4mm x 4 STRANDS TWISTED SOFT GALVANISED BINDING WIRE

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

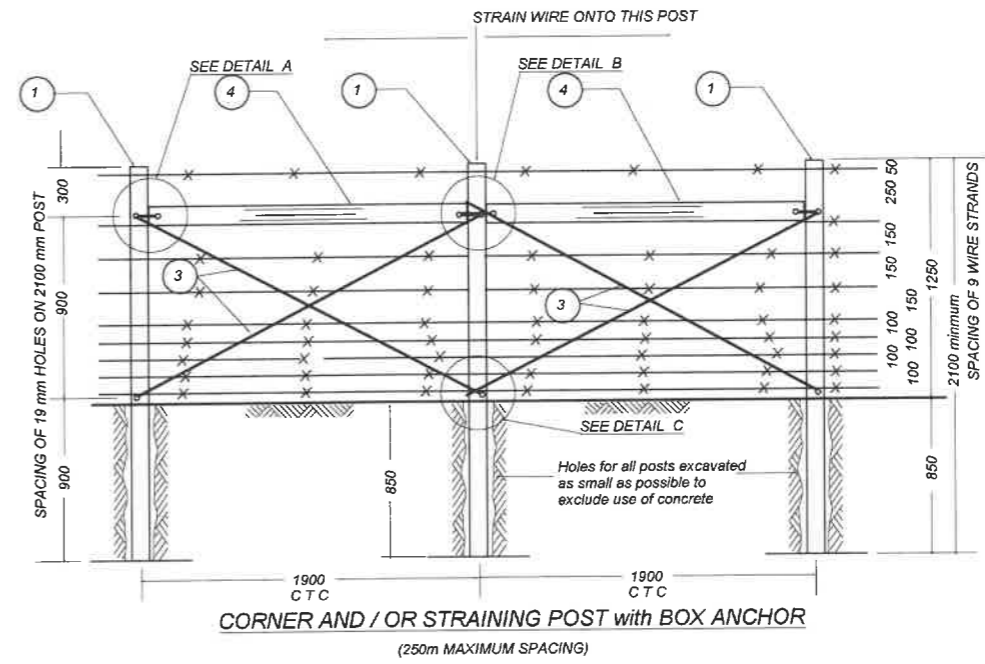
NOTES:

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

NGL NATURAL GROUND LEVEL

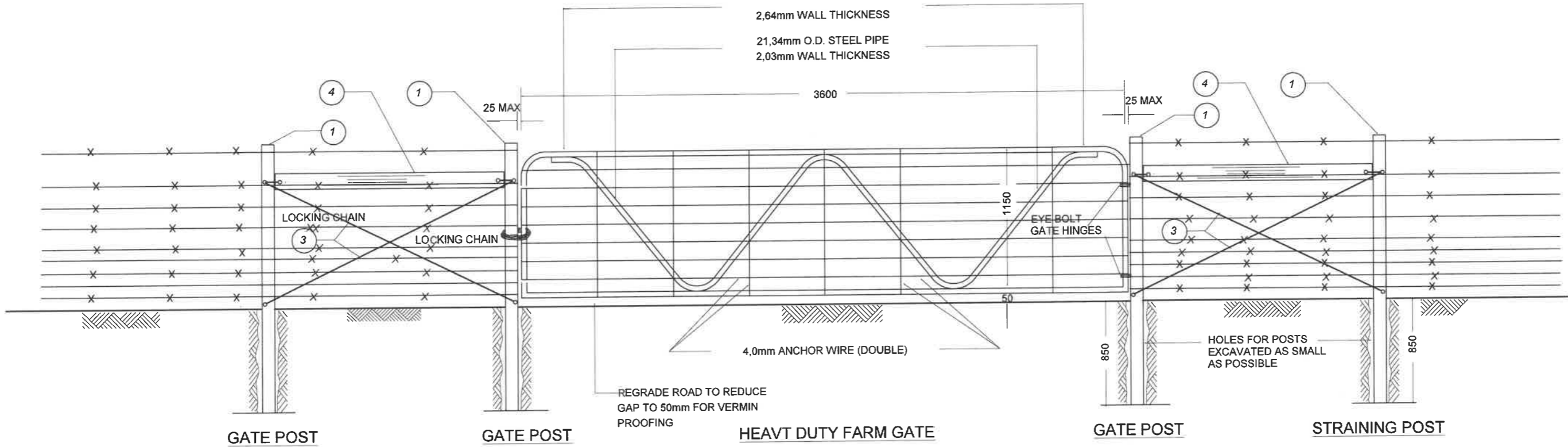


CORNER WITH BOX ANCHOR

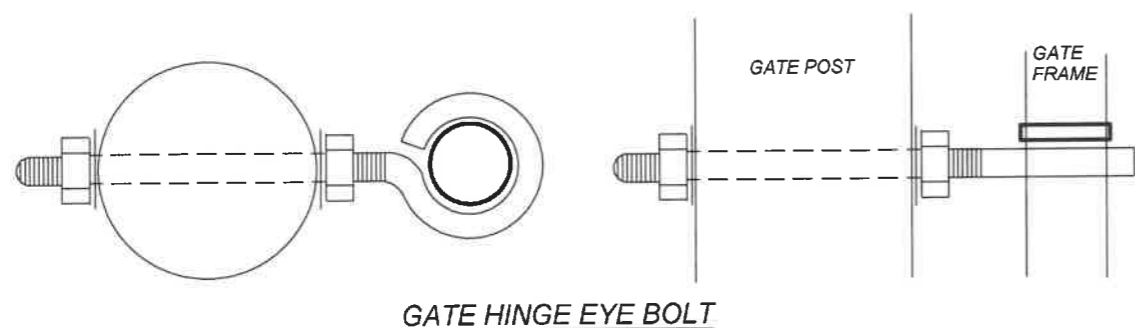


CORNER AND / OR STRAINING POST with BOX ANCHOR (250m MAXIMUM SPACING)

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

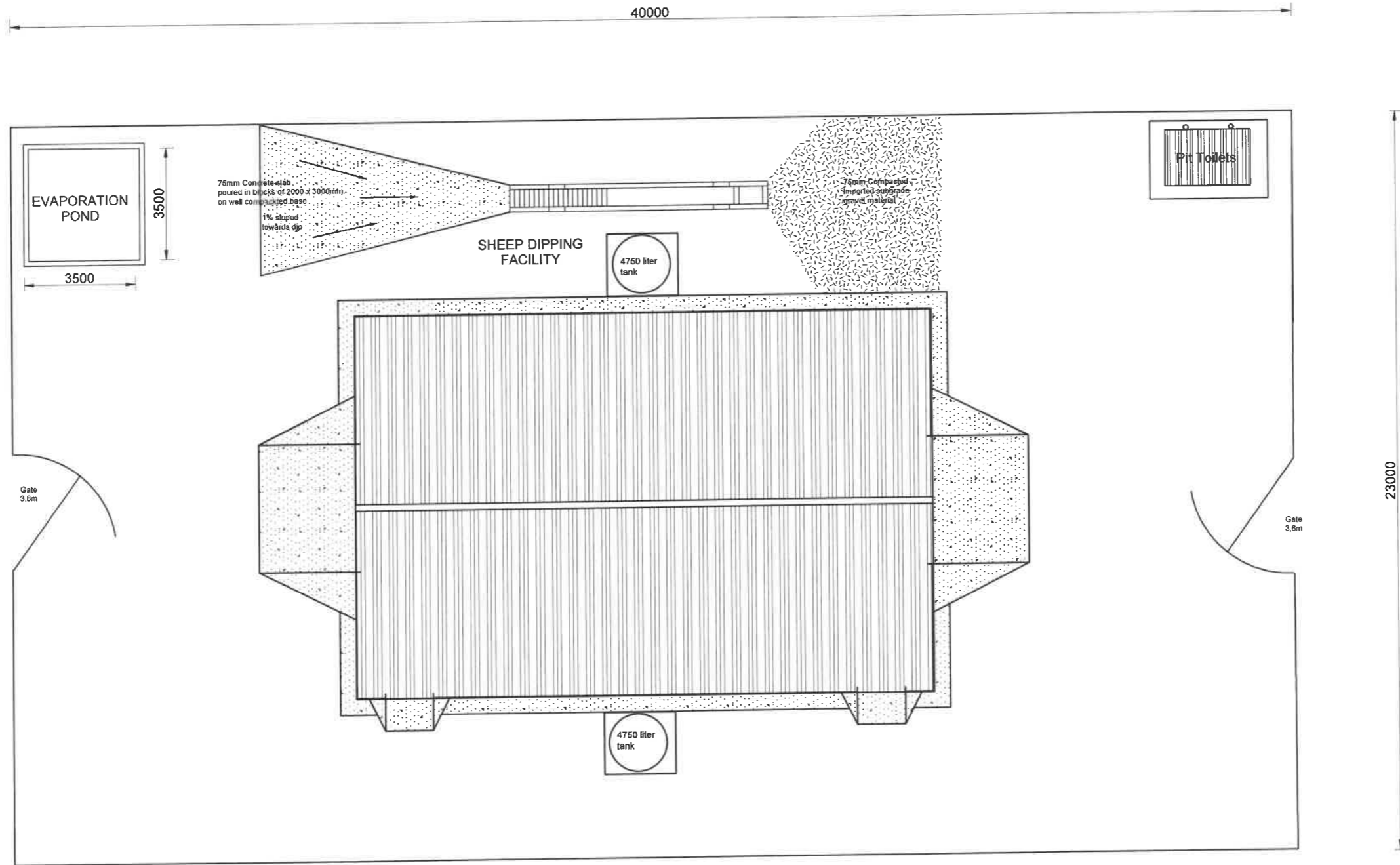
NGL NATURAL GROUND LEVEL

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
				SITE LAYOUT PLAN	A3 ORIGINAL	PLAN NO. SHEET 6 OF 6
		OCTOBER 2024 (DATE APPROVED)	ENGINEERING SERVICES PRIVATE BAG X015 DOHNE ADI STUTTERHEIM 4930			

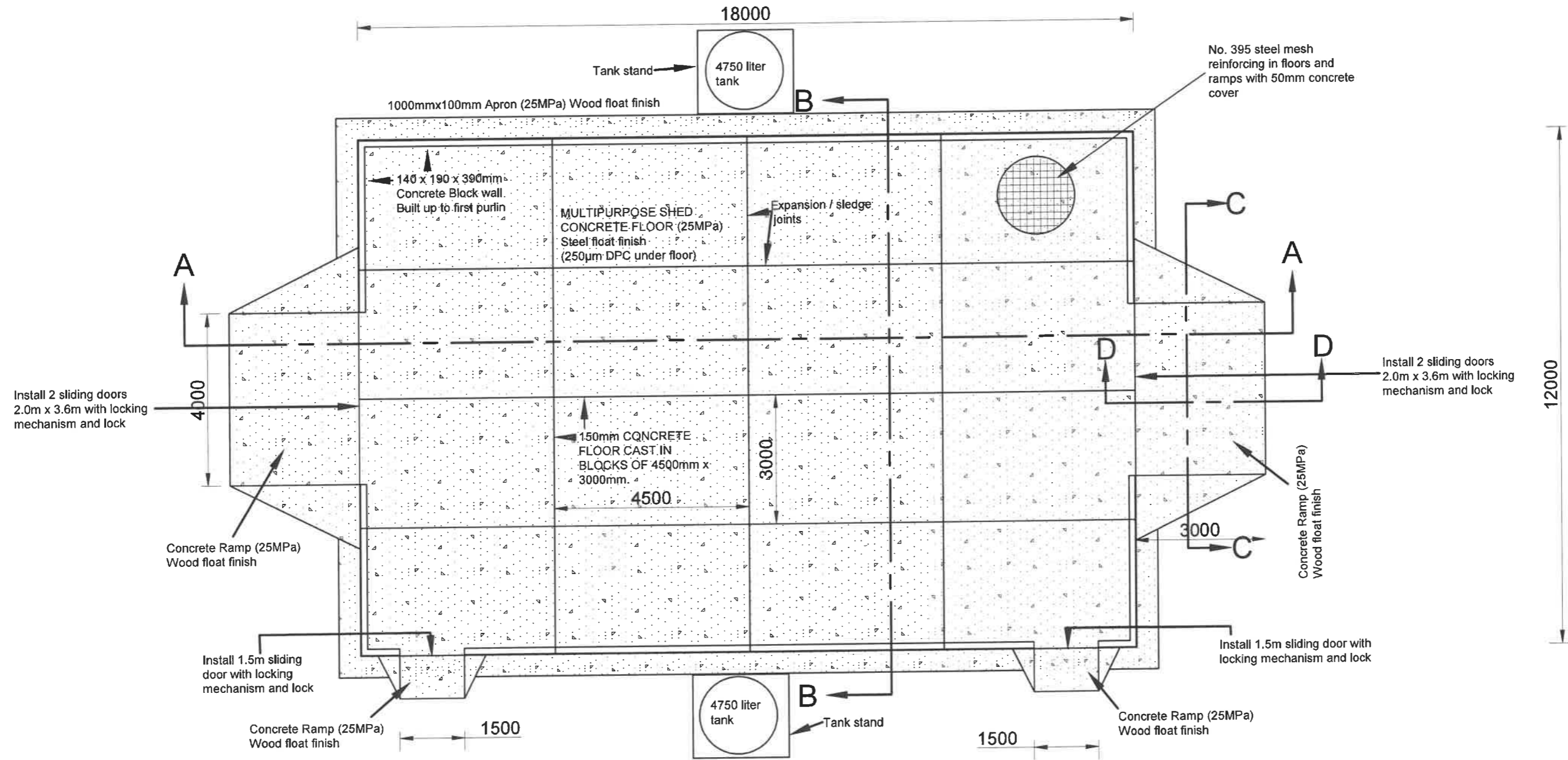
33 STANDARD MULTI-PURPOSE SHED



SITE LAYOUT
SCALE 1:150

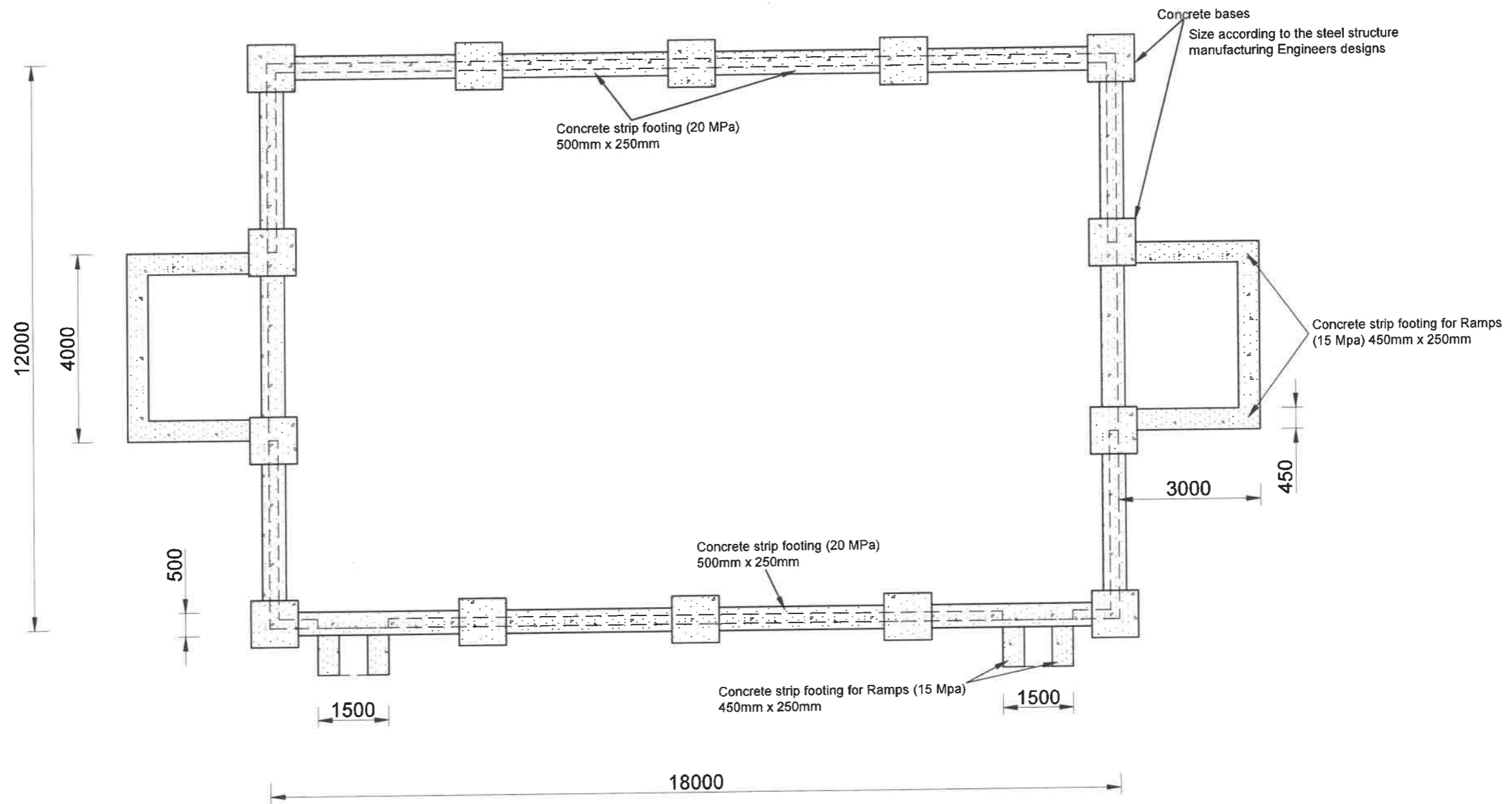
NB: IT IS IMPORTANT THAT THE ATTENTION IS GIVEN TO THE SLOPE OF THE SITE, THE DRAINING TOWARDS THE SITE, AND THE DRAINAGE OF RUN-OFF WATER ON SITE.

NO.	SPECIAL NOTES:	S KONDLO (CHIEF ENGINEER)	DEPARTMENT OF RURAL DEVELOPMENT AND AGRARIAN REFORM PROVINCE OF THE EASTERN CAPE	MULTIPURPOSE SHED	SCALE	INDEX NO.	
1.	18m x 12m x 3.6m Portal Frame Structure with IBR Cladding			OCTOBER 2024 (DATE APPROVED)	ENGINEERING SERVICES PRIVATE BAG X015 DOHNE ADI STUTTERHEIM 4930		NTS
2.	Sheep Plunge Dip with sloping dripping slab.						
3.	Evaporation Pond.						
4.	Pit Toilet.						
5.	Perimeter Fence.						
				SITE LAYOUT PLAN	A3 ORIGINAL	PLAN NO. SHEET 1 OF 7	



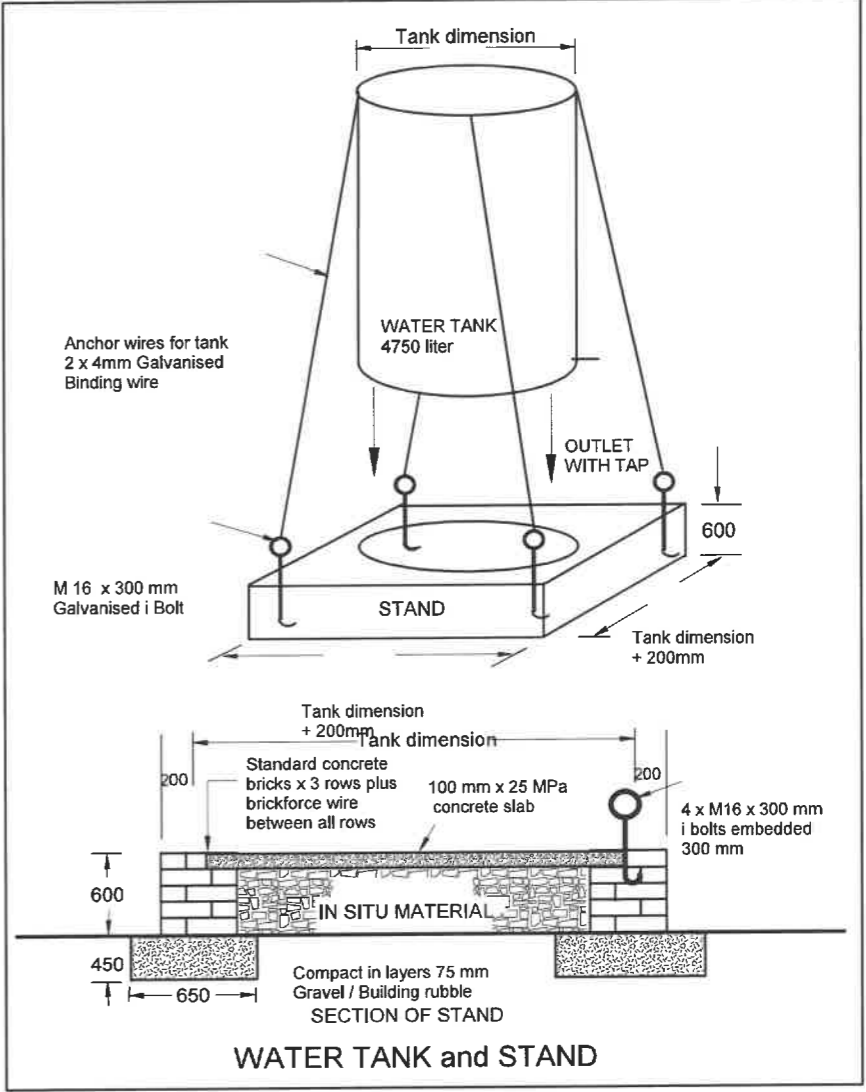
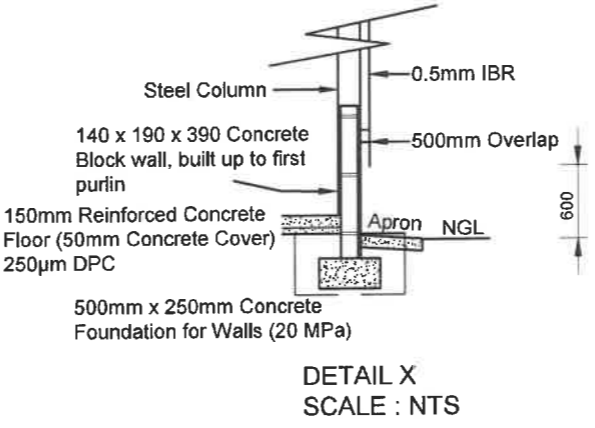
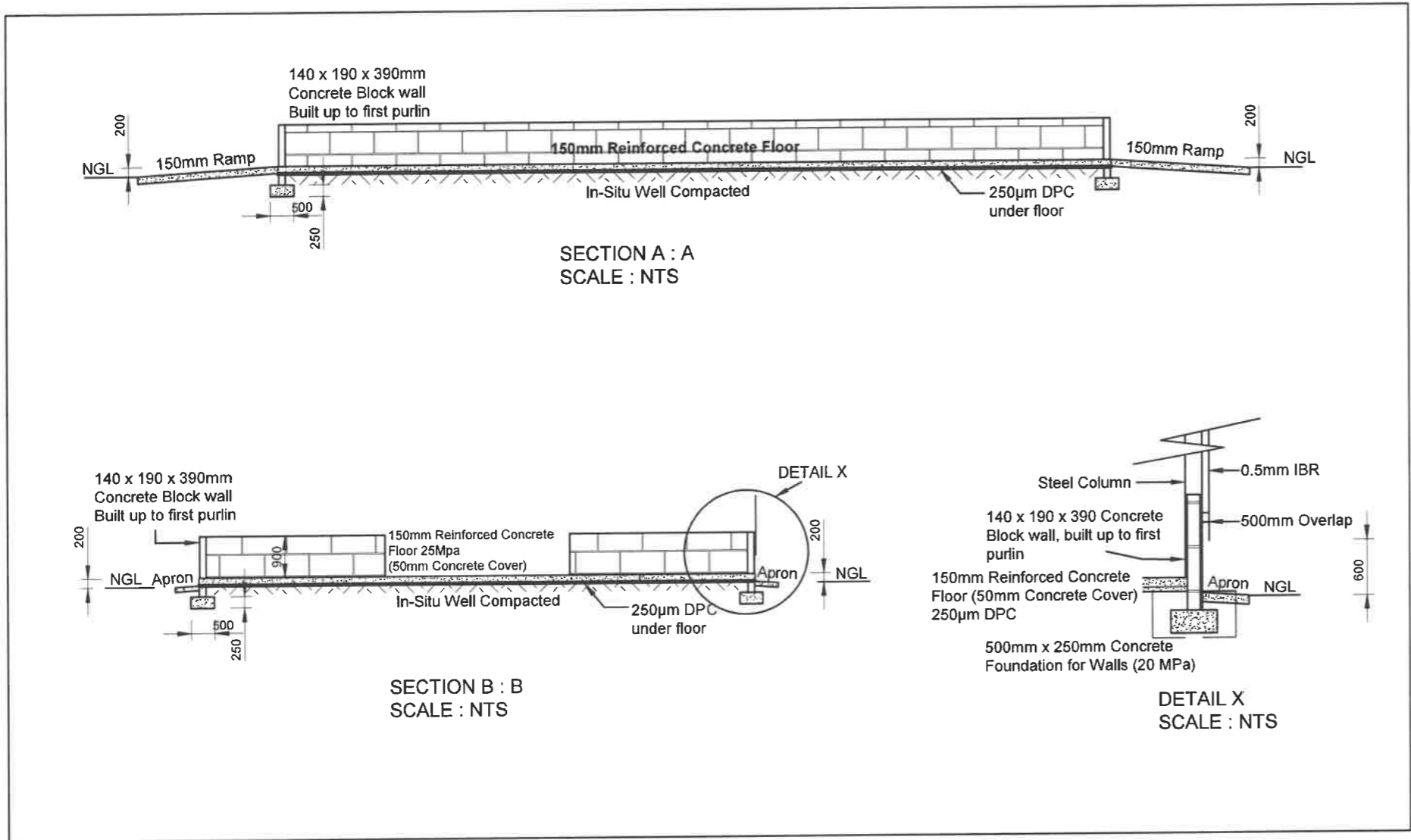
**FLOOR PLAN
SCALE 1 : 100 ON A3**

NO.	SPECIAL NOTES:	S KONDLO (CHIEF ENGINEER)	DEPARTMENT OF RURAL DEVELOPMENT AND AGRARIAN REFORM PROVINCE OF THE EASTERN CAPE	MULTIPURPOSE SHED	SCALE	INDEX NO.			
1.	150mm Reinforced Concrete floor: 25Mpa with a steel float finish				OCTOBER 2024 (DATE APPROVED)	ENGINEERING SERVICES PRIVATE BAG X015 DOHNE ADI STUTTERHEIM 4930	FLOOR LAY-OUT PLAN	NTS	SCMM-03/33/02
2.	250 Micron DPC under reinforced floor.							A3 ORIGINAL	PLAN NO.
3.	150mm Ramps on 4m entries.								SHEET 2 OF 7
4.	100mm Ramps at 1.5m entries.								
5.	1000x100mm Apron around the structure								

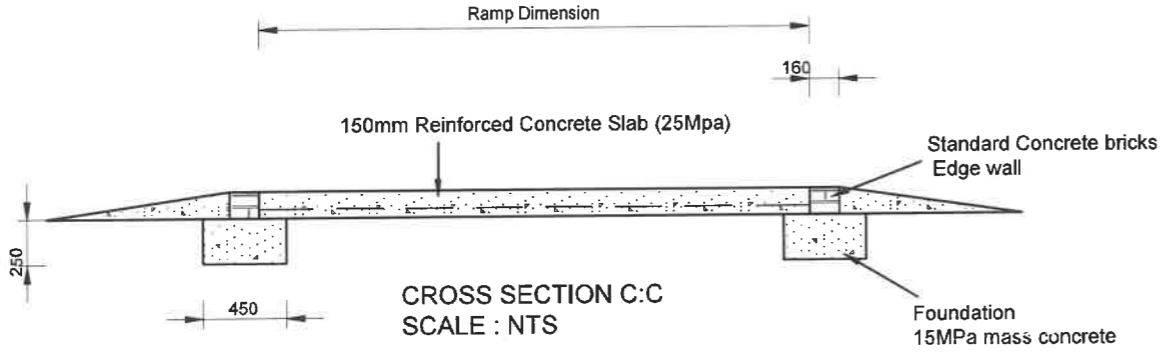


**FOUNDATION PLAN
SCALE 1 :100 ON A3**

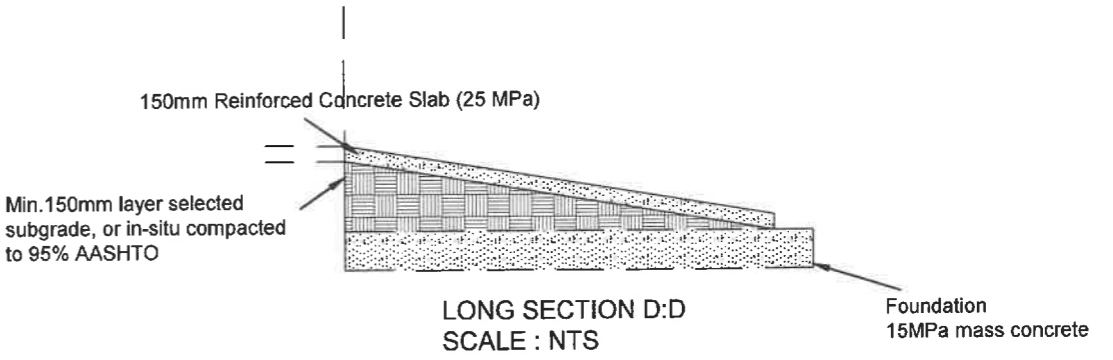
NO.	SPECIAL NOTES:	S KONDLO (CHIEF ENGINEER)	DEPARTMENT OF RURAL DEVELOPMENT AND AGRARIAN REFORM PROVINCE OF THE EASTERN CAPE	MULTIPURPOSE SHED	SCALE	INDEX NO.
1.	Site levelling must be done before excavations for foundations.					
2.	500mm x 250mm Concrete Foundation for Walls					
3.	450mm x 250mm Concrete foundation for Ramps					
4.	Concrete bases size as per the Engineers designs					
		OCTOBER 2024 (DATE APPROVED)	ENGINEERING SERVICES PRIVATE BAG X015 DOHNE ADI STUTTERHEIM 4930	FOUNDATION PLAN	A3 ORIGINAL	PLAN NO. SHEET 3 OF 7



DETAIL OF CONCRETE RAMP

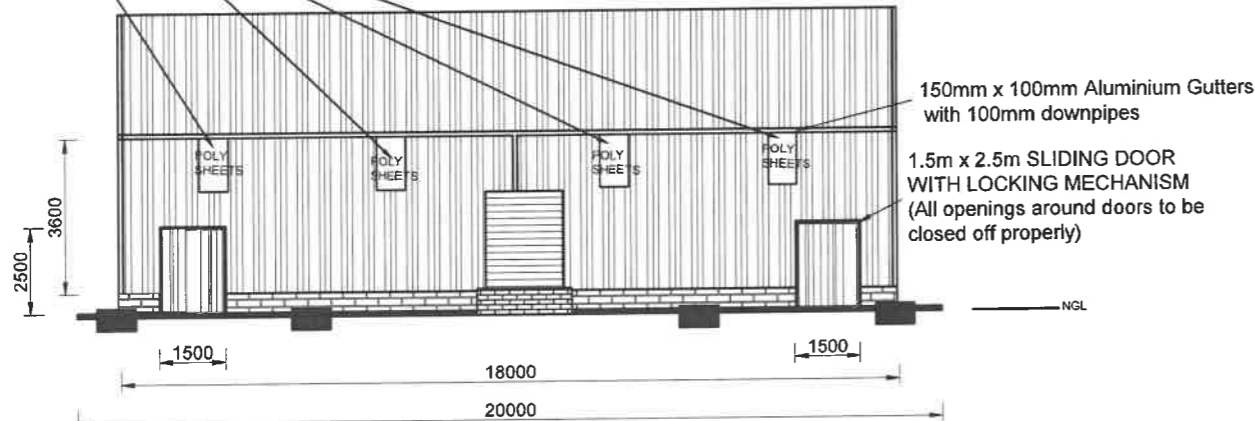


Note:
Dimensions dependant on site specific conditions



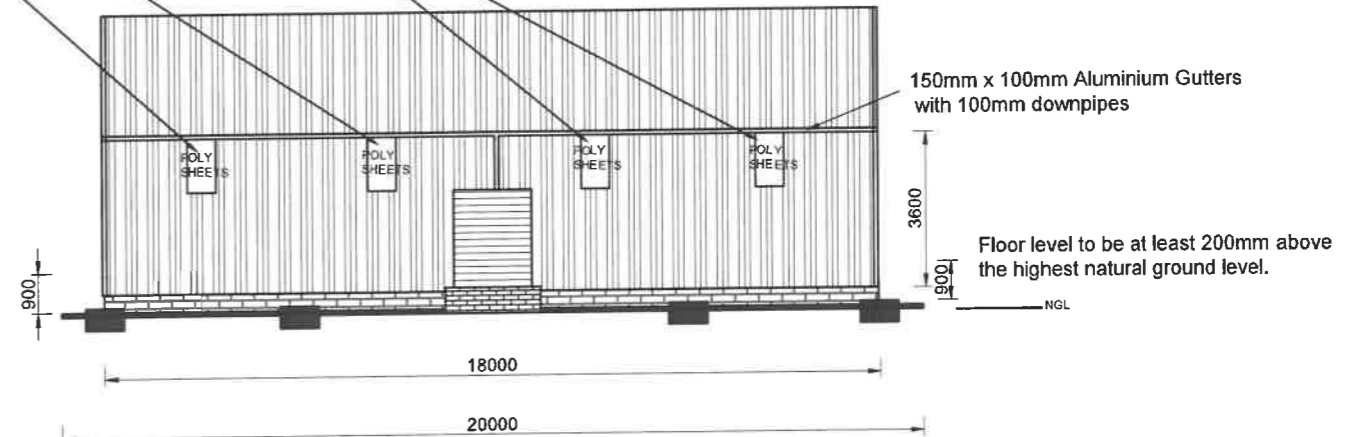
NO.	SPECIAL NOTES:	S KONDLO (CHIEF ENGINEER)	DEPARTMENT OF RURAL DEVELOPMENT AND AGRARIAN REFORM PROVINCE OF THE EASTERN CAPE	MULTIPURPOSE SHED	SCALE	INDEX NO.
	1. Concrete bases as per the Engineers designs				NTS	SCMM-03/33/04
	2. 500mm x 250mm Concrete Foundation for Walls				A3 ORIGINAL	PLAN NO. SHEET 4 OF 7
	3. No. 395 Steel Mesh in ramps with 50mm concrete cover.					
4. 250µm DPC under floor.						
		OCTOBER 2024 (DATE APPROVED)	ENGINEERING SERVICES PRIVATE BAG X015 DOHNE ADI STUTTERHEIM 4930	SECTIONS AND TANK STAND		

1.2mm Polycarbonate Translucent IBR sheet 1.2m (h) and 0.66m(w)
(one sheet wide, between top and bottom cladding supports)
(Make provision for overlap - Sheet length at least 1.5m)



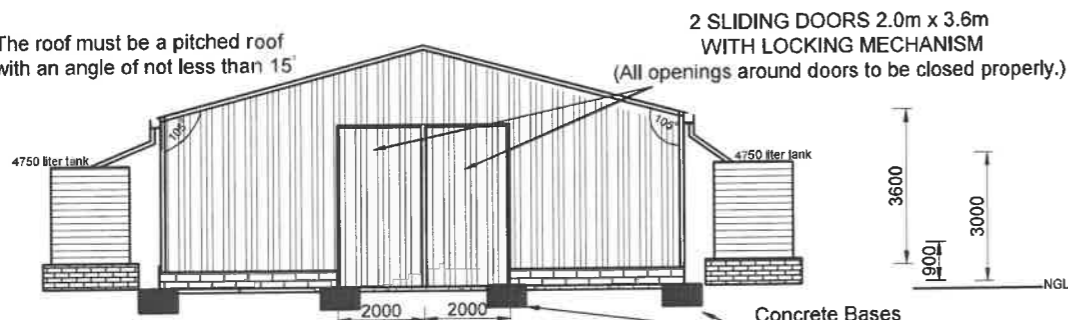
NORTH ELEVATION
NOT TO SCALE

1.2mm Polycarbonate Translucent IBR sheet 1.2m (h) and 0.66m(w)
(one sheet wide, between top and bottom cladding supports)
(Make provision for overlap - Sheet length at least 1.5m)



SOUTH ELEVATION
NOT TO SCALE

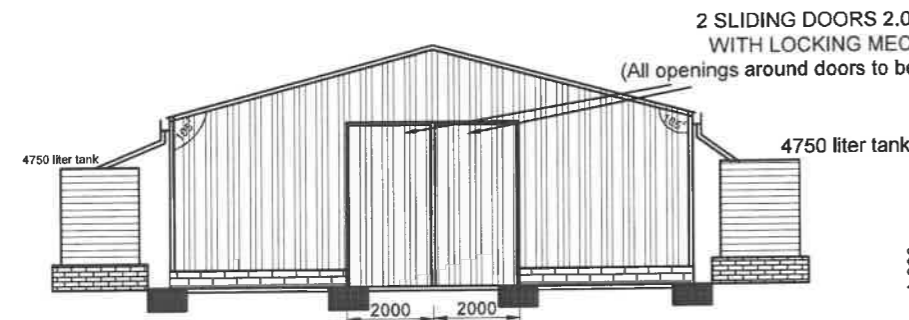
The roof must be a pitched roof
with an angle of not less than 15°



EAST ELEVATION
NOT TO SCALE

2 SLIDING DOORS 2.0m x 3.6m
WITH LOCKING MECHANISM
(All openings around doors to be closed properly.)

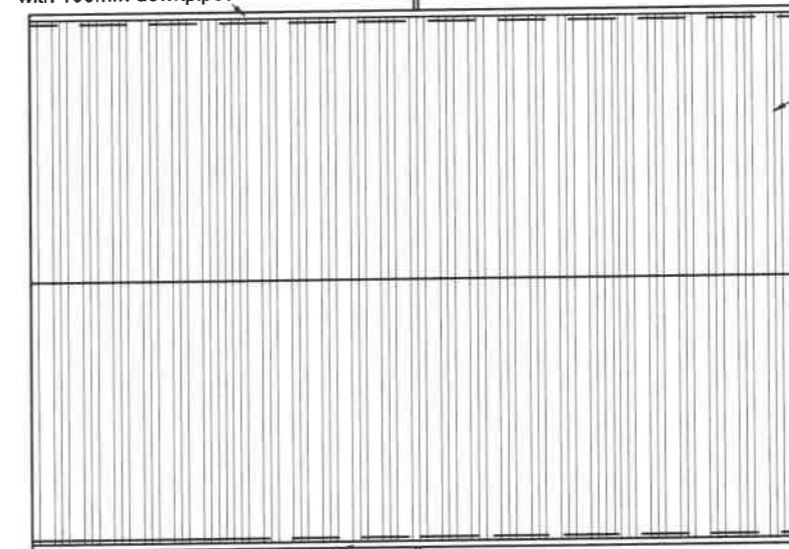
Concrete Bases
according to the
Engineers designs



WEST ELEVATION
NOT TO SCALE

2 SLIDING DOORS 2.0m x 3.6m
WITH LOCKING MECHANISM
(All openings around doors to be closed properly.)

150mm x 100mm Aluminium Gutters
with 100mm downpipes



ROOF- TOP VIEW
NOT TO SCALE

The roof cover must be galvanized iron, IBR sheet type of a thickness of 0.5mm, Z275 galvanized coating, in one continuous sheet.
Ridge cover must consist of 450mm standard flat galvanized ridge cover (Z275 galvanized coating).

DOOR DESIGN:

- The door design shall for part of the engineer's design, to be approved by the employer's agent.
- Doors shall be designed with a bottom rail-roller system.
- Doors shall run in a channel on the top to stabilize the doors, and to secure the doors from being lifted off the rails.

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 - Z275 Galvanized coating
- 2 x 2m sliding doors, to open to both sides, on gable ends, according to the Engineers designs. (All openings around doors 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 side cladding, 4 on each side.
- 150mm x 100mm Aluminium Gutters with 100mm downpipes.

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.

NO.	SPECIAL NOTES:
1.	All excavations and reinforcing steel to be checked and approved by Engineer.
2.	All formwork to be approved by the Engineer before pouring of concrete.
3.	On-site manufacturing of the Portal Frame Structure will not be allowed.
4.	On-site treatment and painting will not be allowed.
5.	On-site touch-up welding and painting to be approved by the Engineer.
6.	Floor level must be at least 200mm above highest natural ground level.

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

MULTIPURPOSE SHED

ELEVATIONS

SCALE

NTS

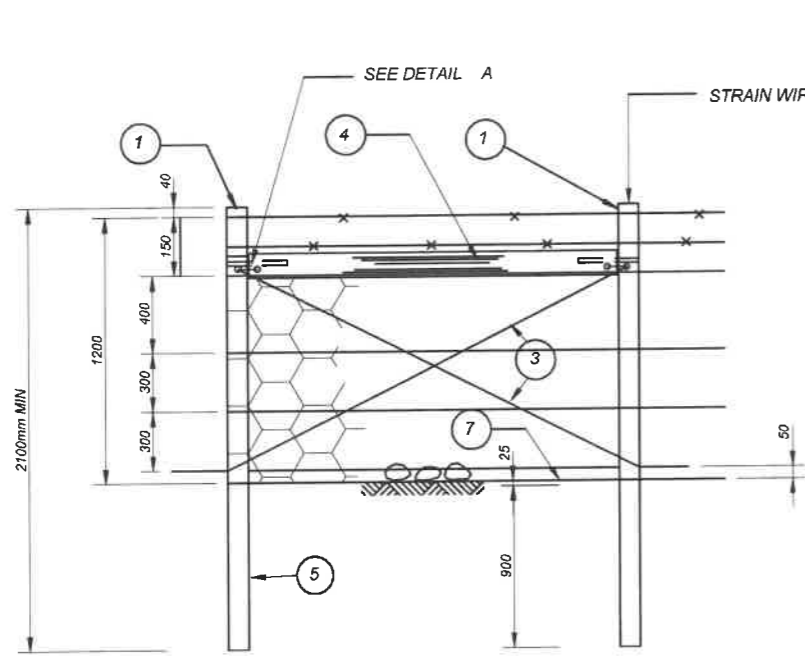
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INDEX NO.

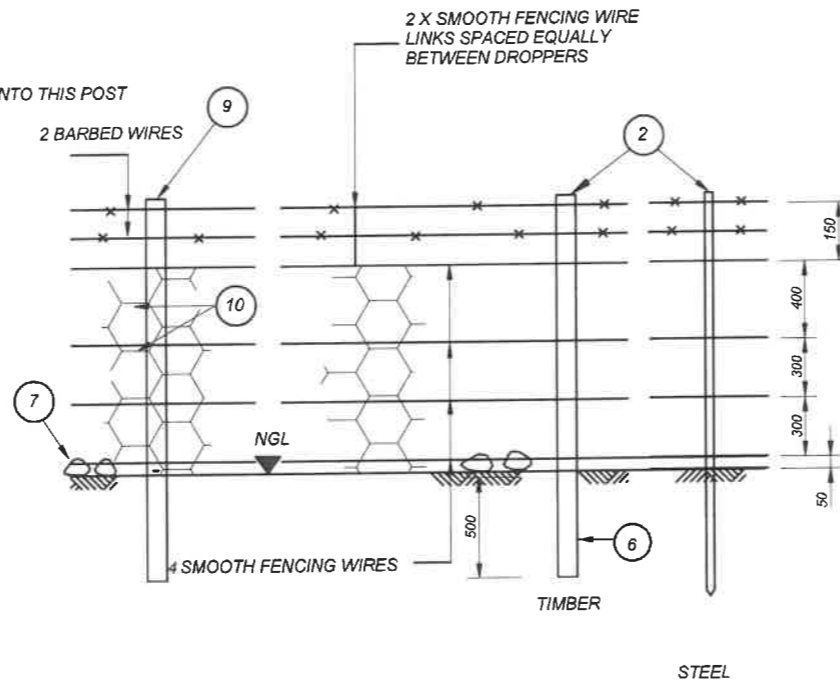
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PLAN NO.

SHEET 5 OF 7

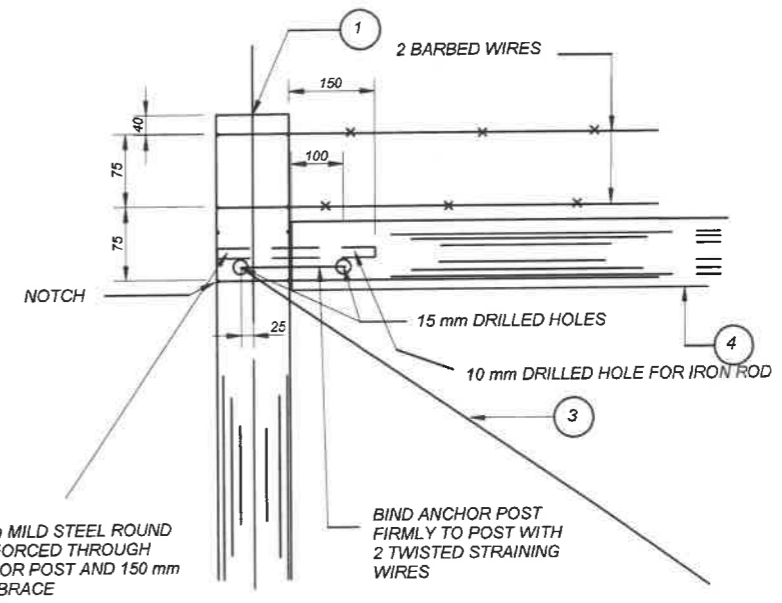


CORNER AND STRAINING POST
 (280 m MAXIMUM SPACING IN SOFT GROUND)
 (500 m MAXIMUM SPACING IN HARD GROUND)



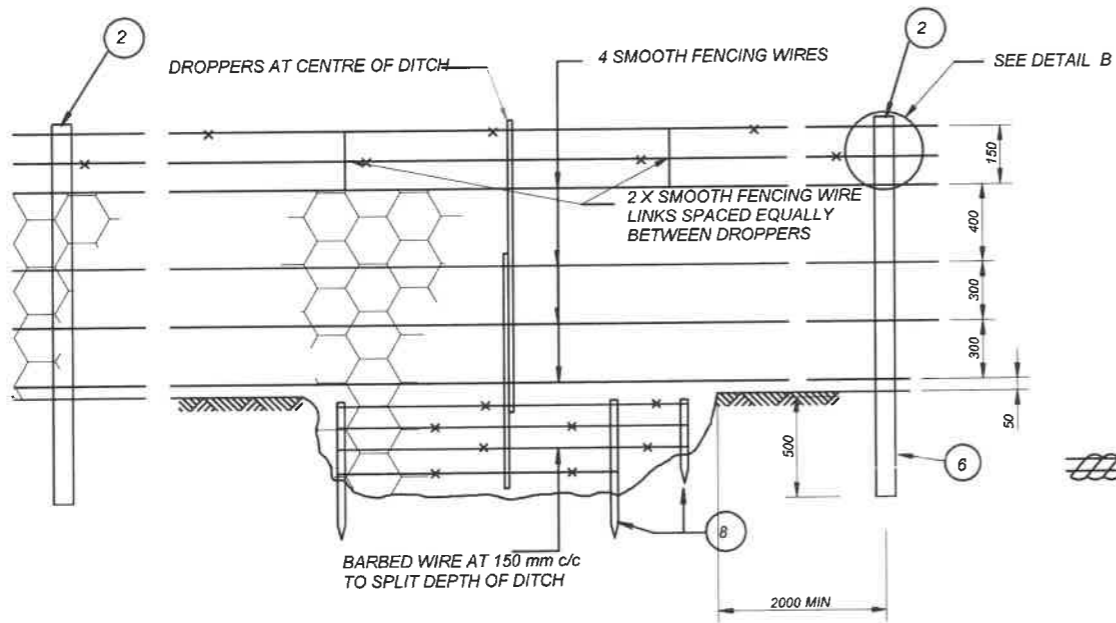
DROPPER
 (3,0 m c/c MAXIMUM)

STANDARD
 (15,0 m c/c MAXIMUM)



DETAIL A

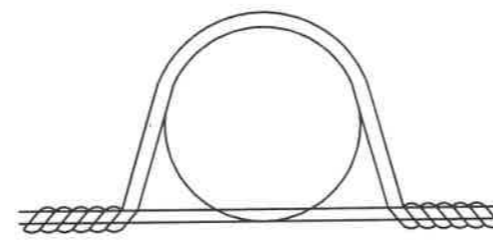
GENERAL DETAILS OF FENCING



STANDARD

ACROSS CHANNELS AND DITCHES

STANDARD



DETAIL B

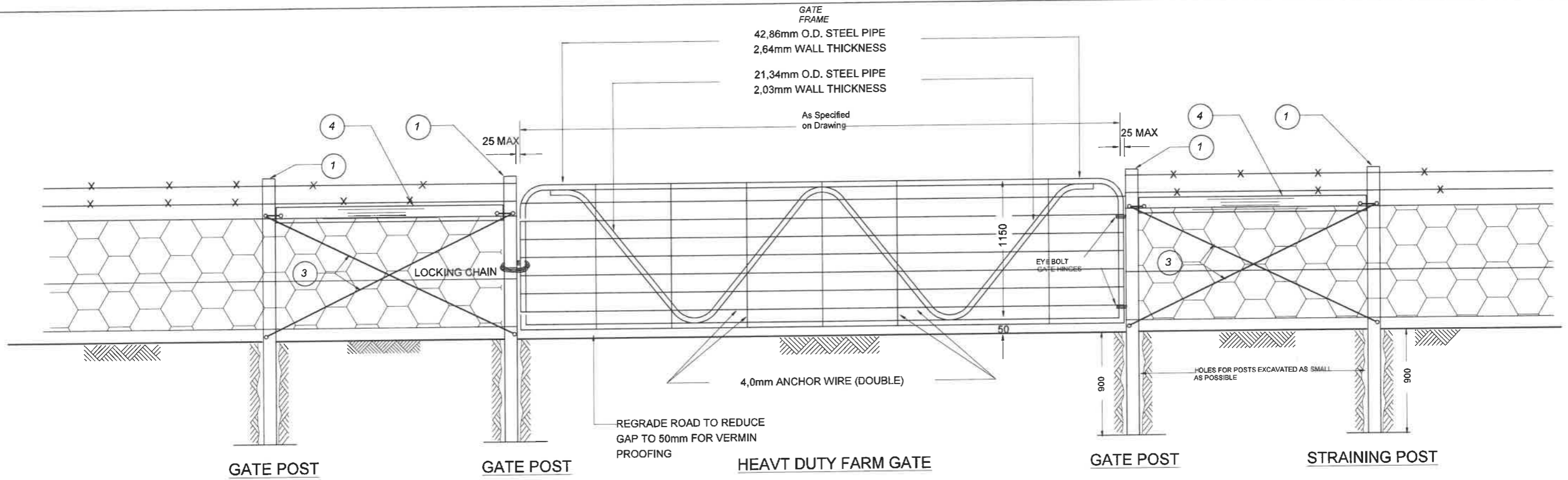
LEGEND

- 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

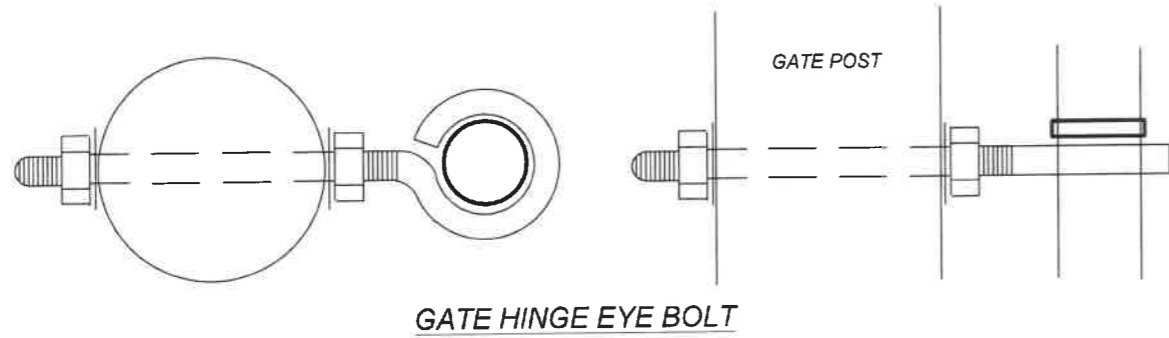
NGL NATURAL GROUND LEVEL

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

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	MULTIPURPOSE SHED	SCALE NTS	INDEX NO. SCMM-03/33/03
				FENCE	A3 ORIGINAL	PLAN NO. SHEET 6 OF 7



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

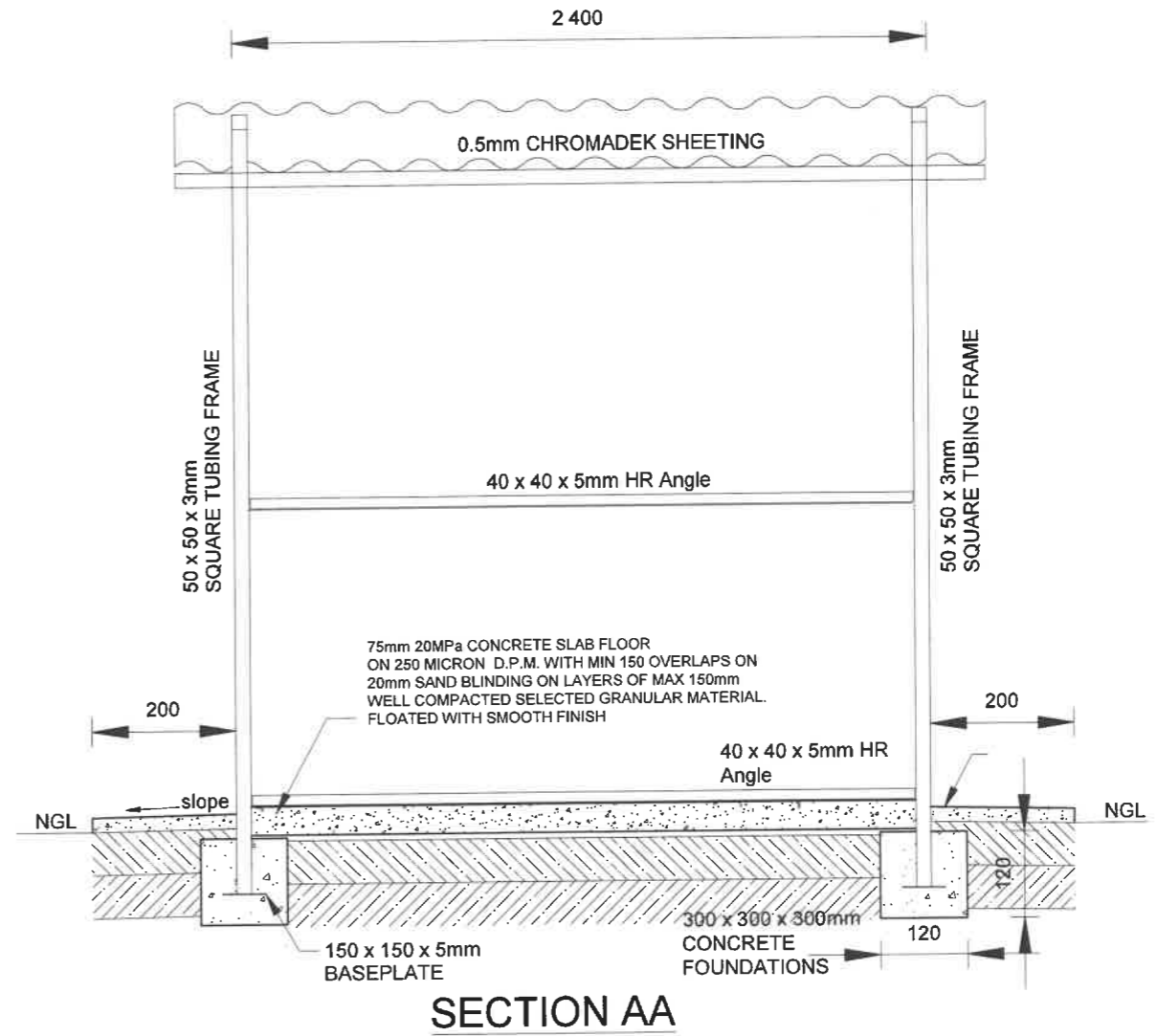
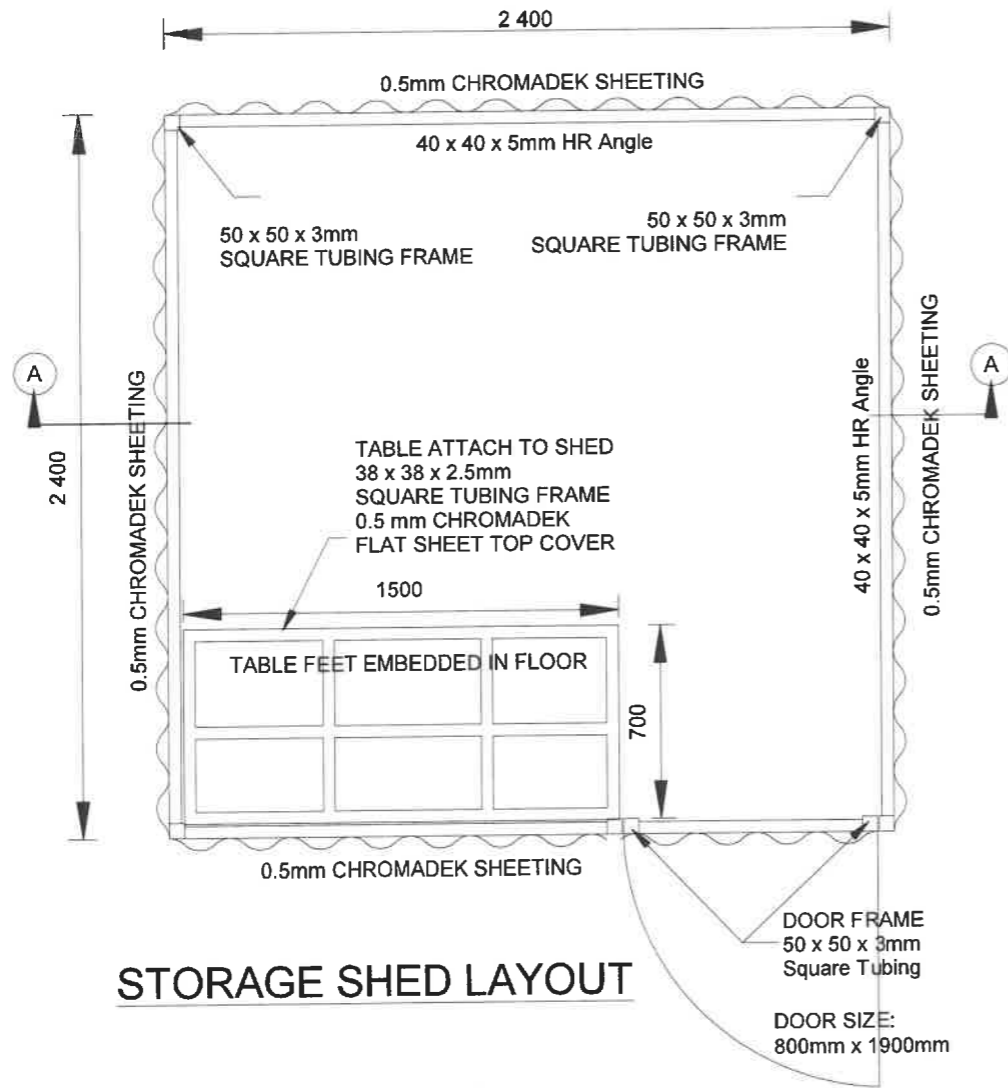
NGL NATURAL GROUND LEVEL

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

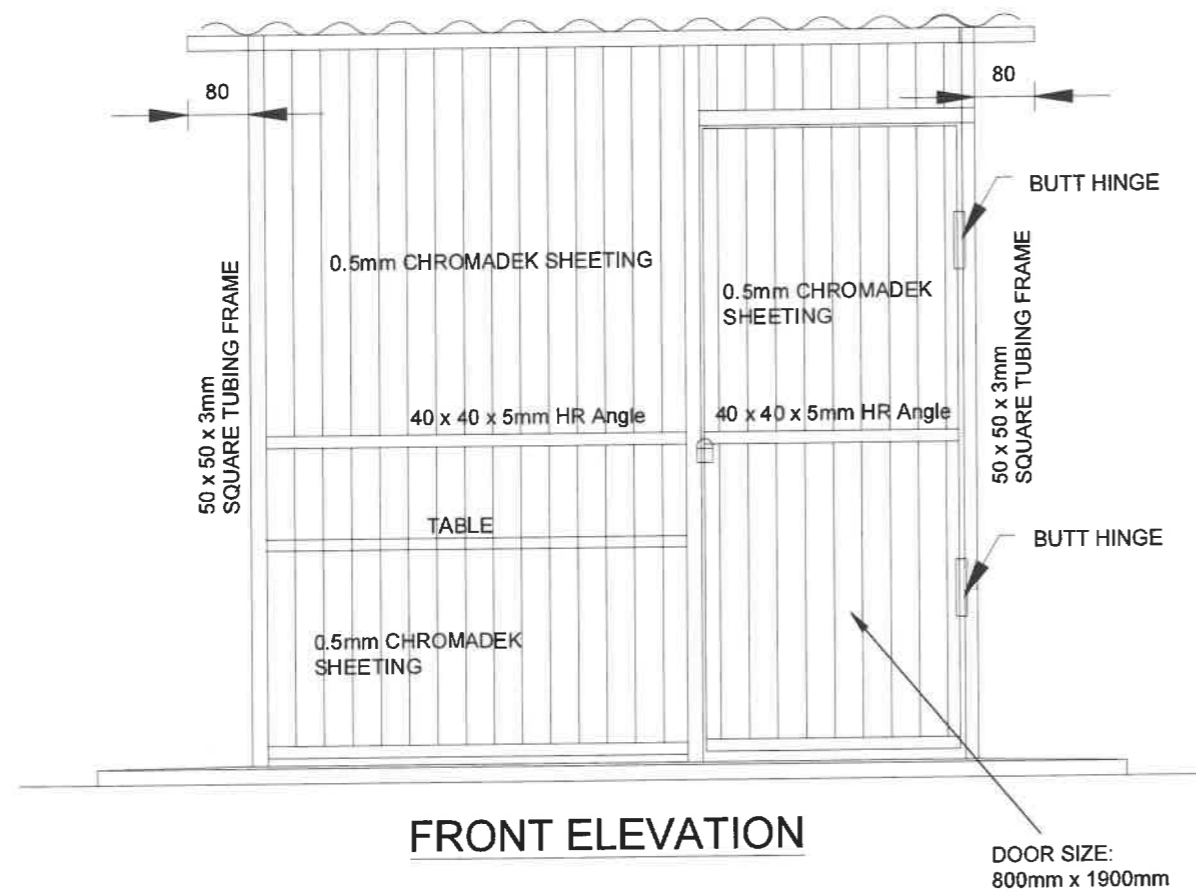
2. THIS DRAWING TO BE READ IN CONJUNCTION WITH THE PROJECT PARTICULAR SPECIFICATIONS FOR FENCES

NO.	SPECIAL NOTES:	S KONDLO (CHIEF ENGINEER)	DEPARTMENT OF RURAL DEVELOPMENT AND AGRARIAN REFORM PROVINCE OF THE EASTERN CAPE	MULTIPURPOSE SHED	SCALE NTS	INDEX NO. SCMM-03/33/07
		OCTOBER 2024 (DATE APPROVED)	ENGINEERING SERVICES PRIVATE BAG X015 DOHNE ADI STUTTERHEIM 4930	FENCE	A3 ORIGINAL	PLAN NO. SHEET 7 OF 7

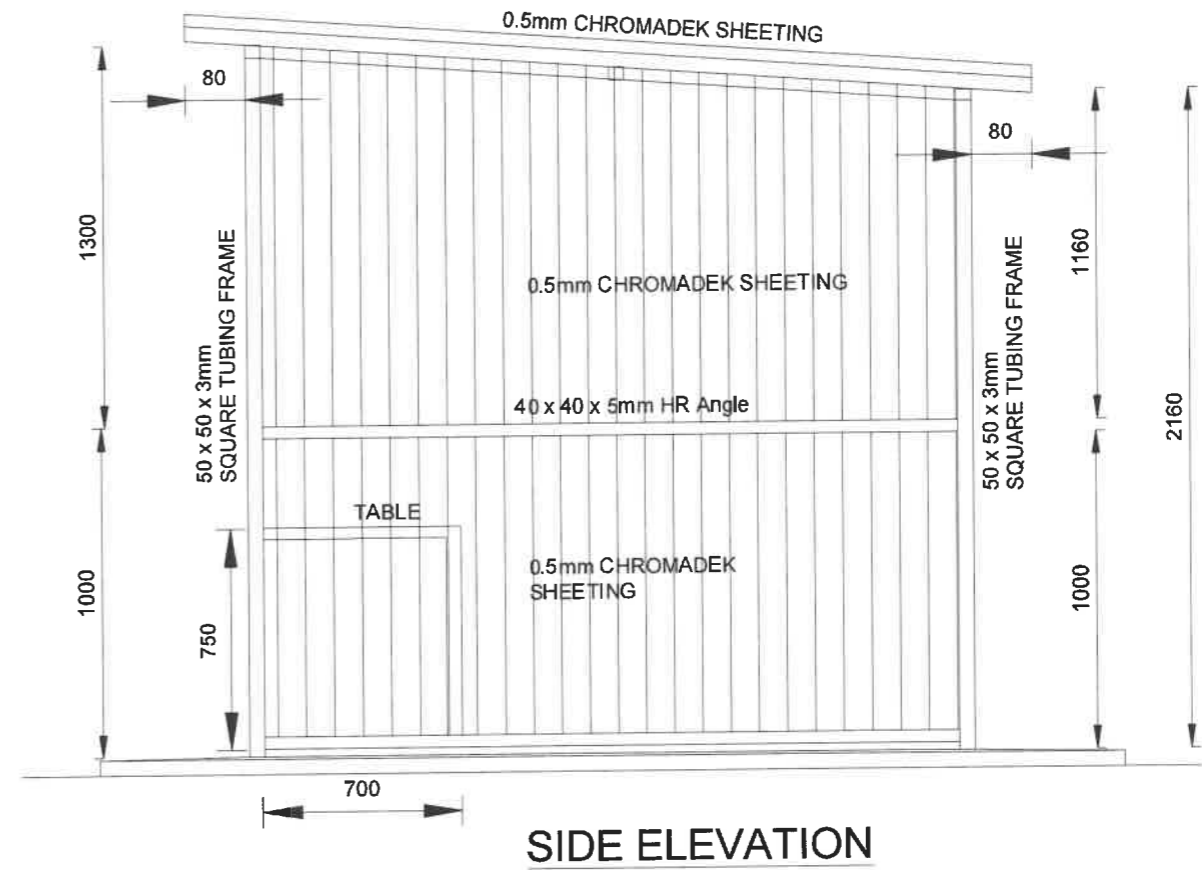
34 DIP TANK STORAGE SHED



NO.	SPECIAL NOTES:	S KONDLO (CHIEF ENGINEER)	DEPARTMENT OF RURAL DEVELOPMENT AND AGRARIAN REFORM PROVINCE OF THE EASTERN CAPE	DIP TANK STORAGE SHED	SCALE	INDEX NO.
					NTS	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



FRONT ELEVATION



SIDE ELEVATION

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-03/34/02
				ELEVATIONS	A3 ORIGINAL	PLAN NO. SHEET 2 OF 2
		OCTOBER 2024 (DATE APPROVED)	ENGINEERING SERVICES PRIVATE BAG X015 DOHNE ADI STUTTERHEIM 4930			