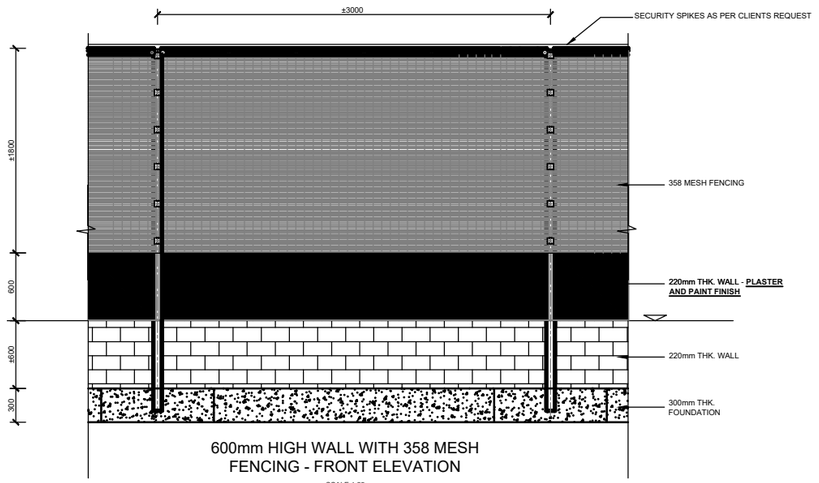


600mm HIGH WALL WITH 358 MESH FENCING - FRONT ELEVATION

SCALE 1:25

358 MESH FENCING SPECIFICATIONS (OR SIMILAR APPROVED)

POSTS:
- SHS 76 X 76 X 1.6 X 3200MM LONG.
- SET POSTS VERTICALLY INTO GROUND AT 3068MM CENTRES.
- LONGER POSTS WILL BE REQUIRED WHERE FENCE STEPS > 200MM. CLIENT TO SPECIFY.

FOUNDATIONS:
- CAST 400 X 400 X 800 DEEP 15MPA/19 STONE AT EACH POST.
- GROUND CONDITIONS MAY REQUIRE ADDITIONAL CONCRETE.

LATERAL SUPPORT:
- PANELS ARE LATERALLY STRENGTHENED WITH VEE SHAPED HORIZONTAL STIFFENER BENDS REF. MESH SPECIFICATION.

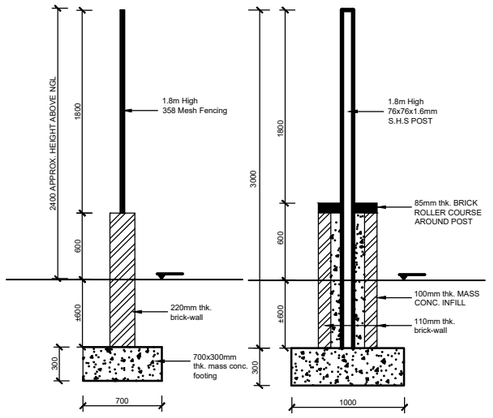
HEAVY SECURITY MESH PANELS
- MESH PANELS SHALL BE REF. 3510 4V, FABRICATED FROM HIGH TENSILE STEEL WITH A WELD STRENGTH OF 60% AND A TENSILE STRENGTH OF 500N/MM2.
- HORIZONTAL AND VERTICAL WIRES SHALL HAVE A CORE DIAMETER OF 3.00MM WITH A TOLERANCE OF +- 0.07MM
- APERTURES SHALL BE 76.2MM W X 12.7MM H C/C OF WIRES.
- PANELS ARE LATERALLY STRENGTHENED BY INCORPORATION OF 4 X 43MM DEEP, V-PROFILED HORIZONTAL STIFFENER BENDS.
- PANEL FINISH SIZE TOLERANCES: WIDTH +- 2.0MM AND HEIGHT +-6MM
- MESH PANELS ARE MANUFACTURED WITH ZINCALU WIRE (GALFAN).

VANDAL RESISTANT FIXING:
- TO POSTS: LARGE SPIDER FIXATORS BOLTED TO THE POST USING M8 ALLEN SOCKET MUSHROOM HEAD BOLTS, RIVNUTS & FLAT WASHERS.
- TO RAILS: BOLTED USING M8 ANTI-VANDAL CUPSQUARE BOLTS, SHEAR-OFF NUTS & FENDER WASHERS.
- ALL FASTENERS AND FIXING SCREWS SHALL BE GRADE 304 STAINLESS STEEL.

ANTI CLIMB OVER PREVENTION:
- AT THE TOP, A PURPOSE BENT Z- PROFILE COMBO SAWTOOTH SERRATED EDGE SPIKE/RAIL 40 X 20 X 40 X 2.5MM THICK FABRICATED FROM 100MM WIDE SHEET METAL STRIP SHALL CAP OVER THE MESH PANEL AND BE FIXED TO THE MESH TO DETER CLIMBING.

CORROSION PROTECTION:
INITIAL COATING:
- MESH PANELS: ZINCALU.
- POSTS/STRUCTURE/RAILS/SPIKES: HD GALVANISED.

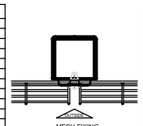
ADDITIONAL COATING:
- FENCE MESH PANELS, POSTS, STRUCTURE & SPIKE RAILS SHALL BE UNIFORMLY PVC COATED, WHICH IS FREE OF LEAD, CADMIUM AND DOP, TO A MINIMUM THICKNESS OF 200MM (MICRONS) IN ACCORDANCE TO EN 10245-2 STEEL WIRE AND WIRE PRODUCTS - ORGANIC COATINGS ON STEEL WIRE - PART 2: PVC FINISHED WIRE.
- FINISH COLOURS SHALL BE EITHER RAL 7021 ANTHRACITE OR RAL 6005 GREEN.



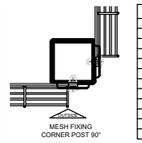
SECTION B-B
SCALE 1:25

SECTION C-C
SCALE 1:25

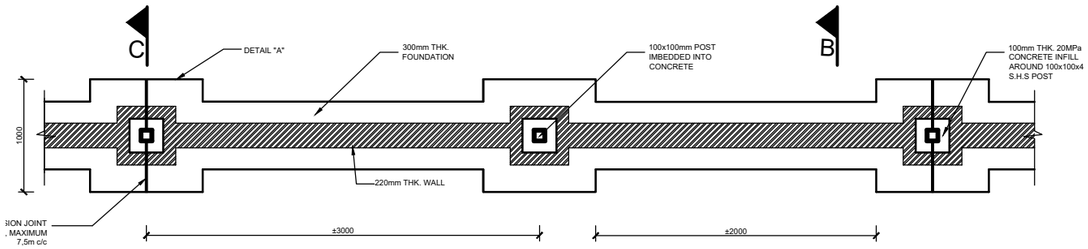
Material Schedule per unit Intermediate Post			
Qty	Component	Description	Length
1	Post	SHS 76 x 76 x 1.6	3200
1	Cap	Polyamide cap	
8	Fixing Clamp	Large Spider	
8	Allen socket bolt	M8 mushroom head	40
8	Nut	M8 Rivnut	
8	Washer	M8 Flat	



Material Schedule per unit Panel			
Qty	Component	Description	Length
1	Mesh	3510 4V x 2393	3048
1	Combo rail/spike	240 x 20 x 40 x 2.5	2998
6	Cup-square bolt	M8 mushroom head	40
6	Nut	M8 Shear-off	
6	Washer	M8 Fender	

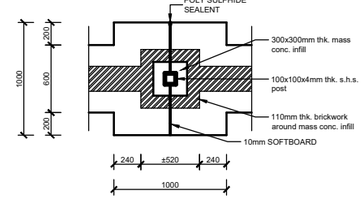


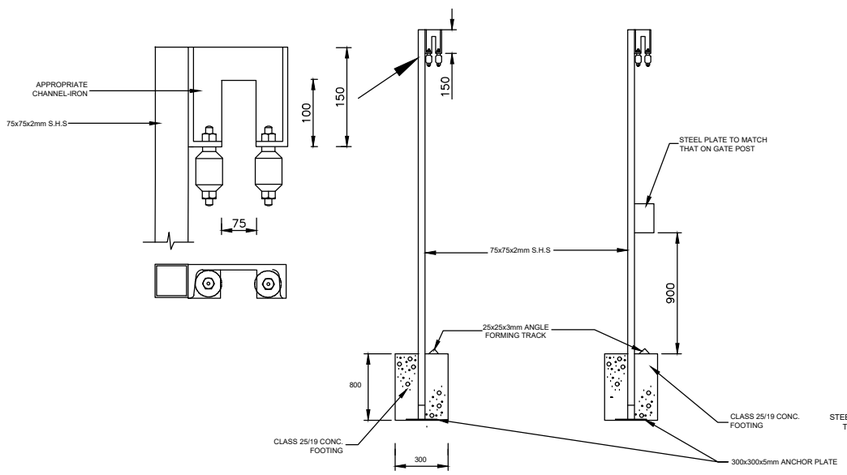
Material Schedule per unit Corner Post			
Qty	Component	Description	Length
1	Post	SHS 76 x 76 x 1.6	3200
1	Cap	Polyamide cap	
16	Fixing Clamp	Large Spider	
16	Allen socket bolt	M8 mushroom head	40
16	Nut	M8 Rivnut	
16	Washer	M8 Flat	



TYPICAL BOUNDARY WALL LAYOUT

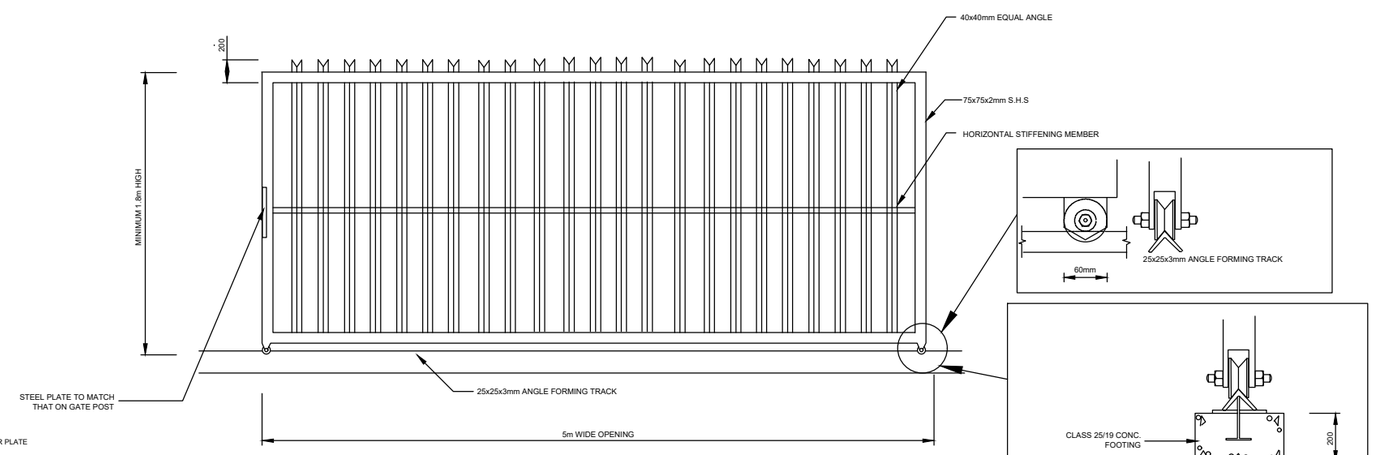
SCALE 1:25





SECTION THROUGH POSTS FOR SLIDING GATE

SCALE 1:25



ELEVATION FOR 1.8m HIGH SLIDING GATE

SCALE 1:25

GENERAL NOTES

1. ALL STRAIGHT POSTS SHALL BE ANCHORD FOR A MINIMUM DEPTH OF 600mm.
2. ALL POLES AND GATES SHALL BE HOT DIPPED GALVANISED AFTER MANUFACTURING.
3. TOP OF ALL CONCRETE BASES TO BE 20mm ABOVE GROUND LINE.
4. END POSTS REQUIRE ONE STAY ONLY.
5. POLE CAP (TOP) MIN. 2mm THICK AND BE WELDED TO ALL OPEN ENDS OF TUBING.
6. GATE POSTS SHALL BE MINIMUM 100mm FOR FENCING HIGHER THAN 1.2m
7. MIN. WALL THICKNESS OF ALL TUBING IS 2mm.
8. THE LENGTH AND DIAMETER OF ALL BOLTS AND NUTS SHALL BE ACCORDING TO THE SUPPLIERS SPECIFICATIONS INCLUDING THE DIAMETER OF THE HOLES AT THE POSTS

No	AMENDMENTS	DATE
T0	ISSUED FOR TENDER	SEP 2022

SURVEYED		
DRAWN	S.NAIDOO	AUG 2022
DESIGNED	S.NAIDOO	AUG 2022
CHECKED	M LULE	AUG 2022
APPROVED	PR REGISTRATION NO 201901044	DATE 2022/09/27

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CLIENT

an agency of the Department of Arts and Culture

PROJECT TITLE

RESTORATION OF ROGGELAND FARM

DRAWING TITLE

FENCING DETAILS AND SPECIFICATION

SCALE	SHEET SET	SHEET SIZE
AS SHOWN	SHEET 4 OF 5 SHEETS	A0

DRAWING No.	REVISION
1711-01-FEN-004	T0

P:\2017\1711 Welcome College Property & Roggeland Farm Property\04 Design & Drawings\07 Structures\02 Proposed Structures\DWG\Fencing\Fencing Details.dwg