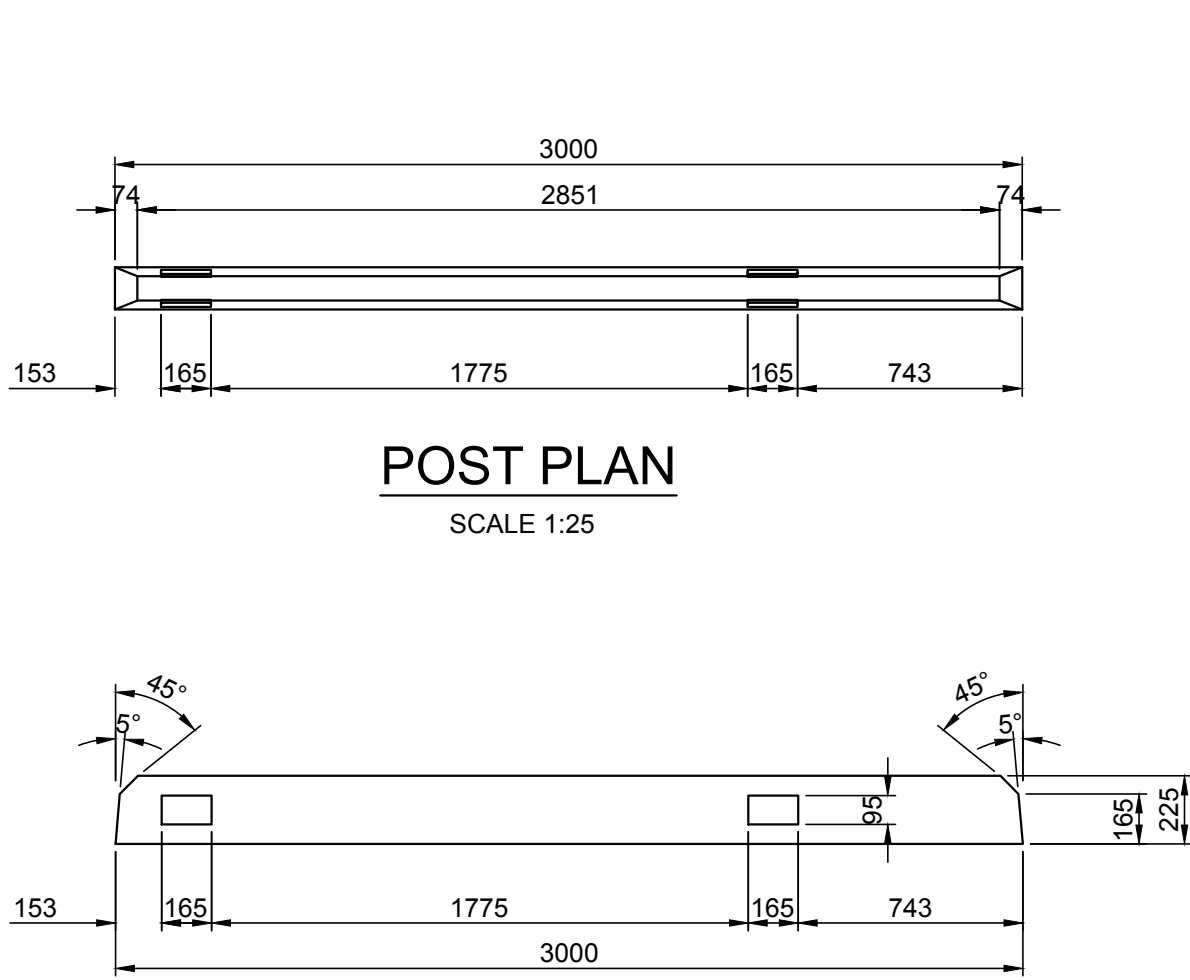
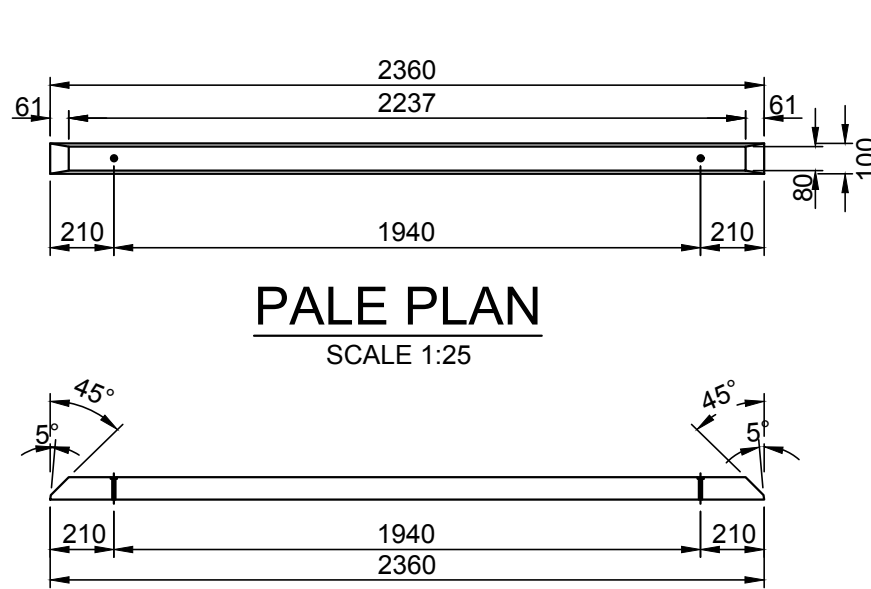


PALISADE FENCE
SCALE 1:25



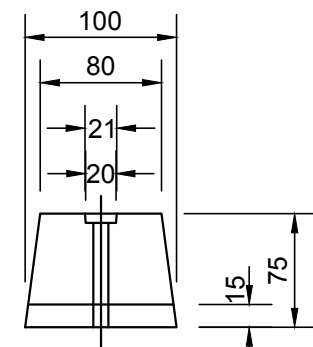
POST PLAN
SCALE 1:25

POST ELEVATION
SCALE 1:25

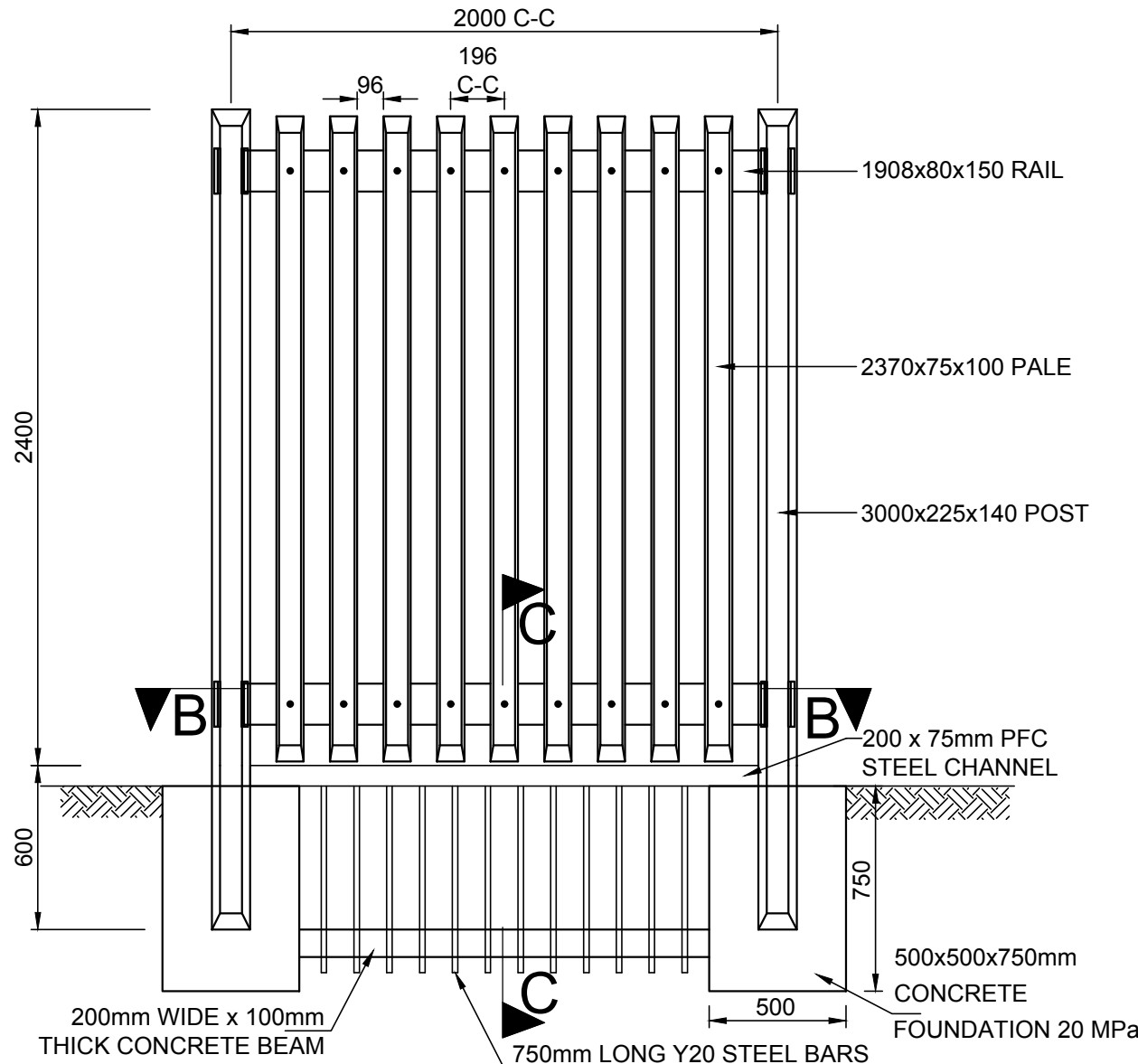


PALE PLAN
SCALE 1:25

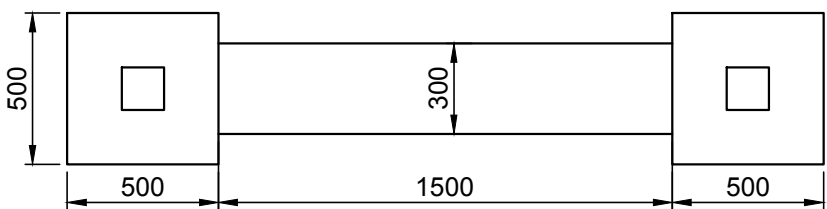
PALE ELEVATION
SCALE 1:25



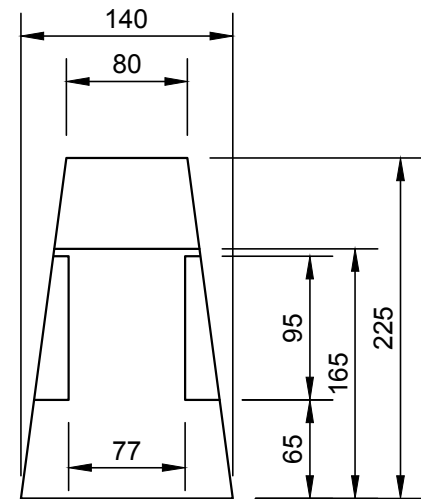
PALE SECTION
SCALE 1:5



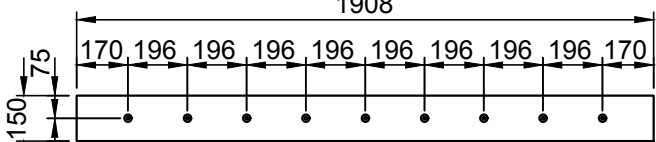
PALISADE FENCE (AT MV ROOM GRASS BLOCK CHANNEL)
SCALE 1:25



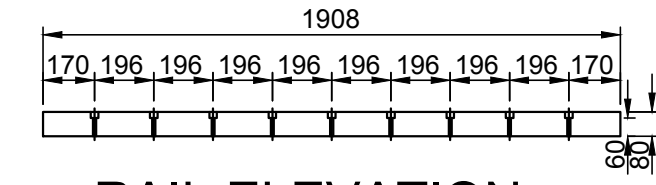
SECTION A-A
SCALE 1:25



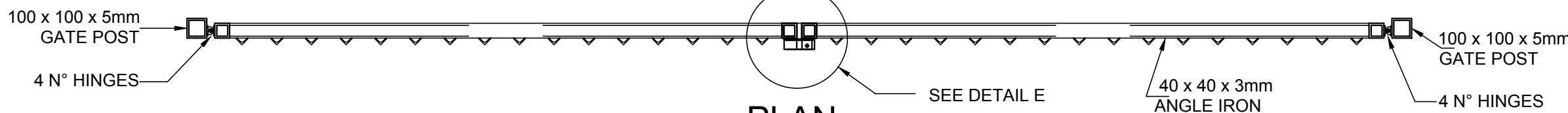
POST SECTION
SCALE 1:5



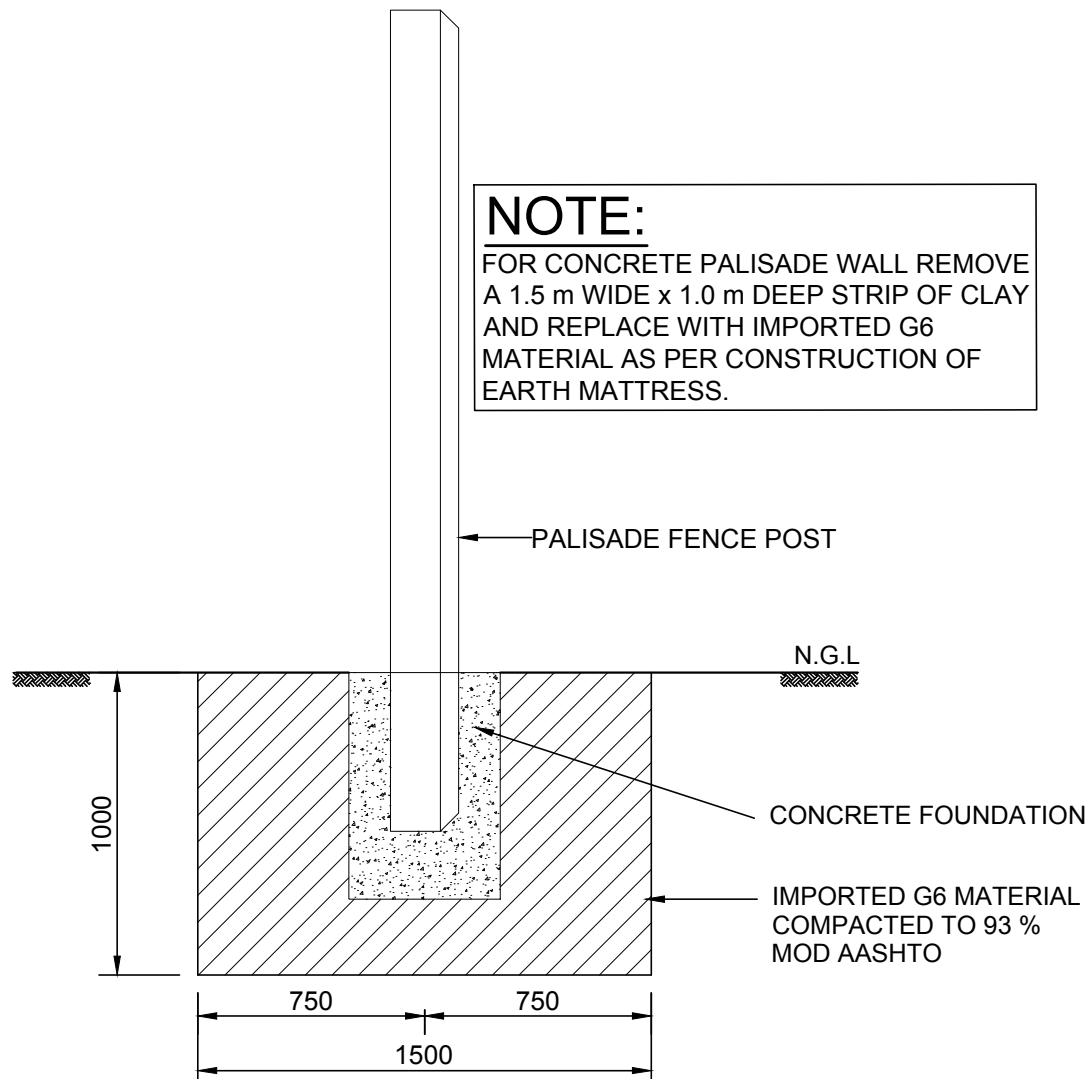
RAIL PLAN
SCALE 1:25



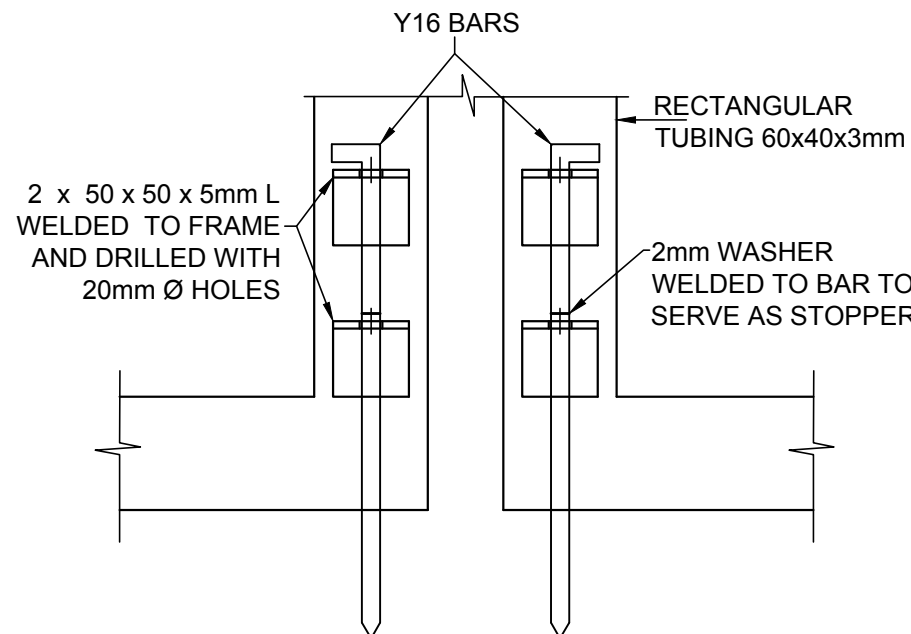
RAIL ELEVATION
SCALE 1:25



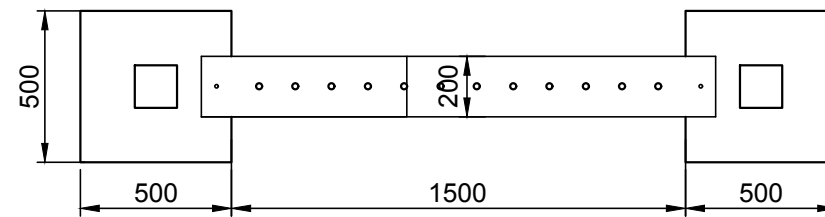
PLAN
SCALE 1:25



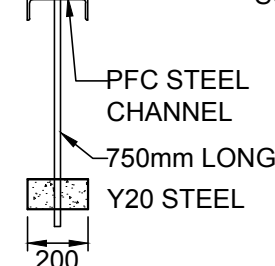
EARTH MATTRESS CONSTRUCTION DETAILS
SCALE 1:25



DETAIL D-BACK ELEVATION
SCALE 1:5



SECTION B-B
SCALE 1:25



SECTION C-C
SCALE 1:25

NOTE (VERY IMPORTANT):
NOTIFY ENGINEER PRIOR TO CONSTRUCTION OF PALISADE FENCE AT THE CHANNEL. THE Y20 STEEL BARS TO BE WELDED WITH A 6mm WELD TO THE PFC STEEL CHANNEL. ALL TO BE HOT DIPPED GALVANIZED.

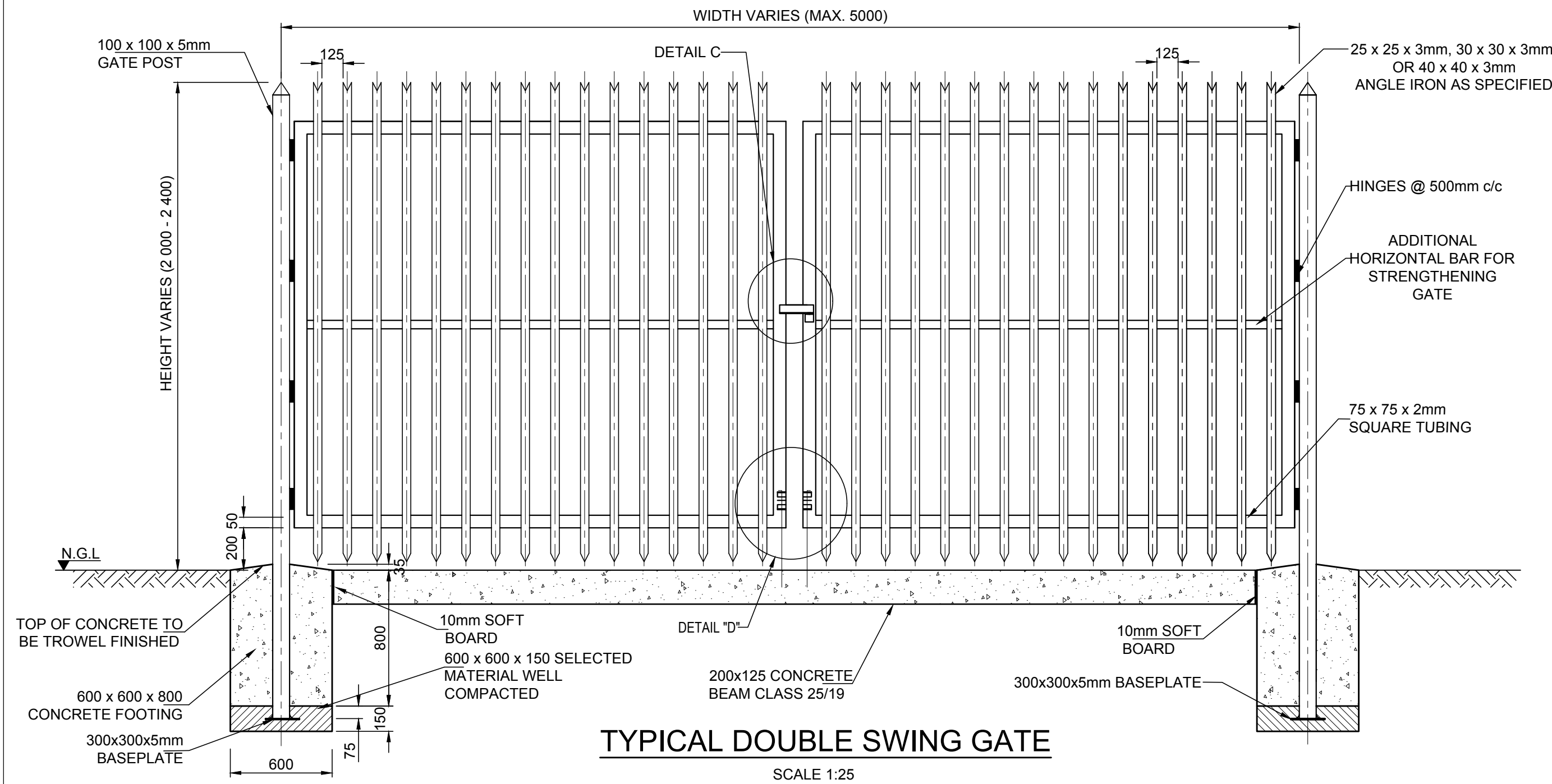
CONCRETE NOTES:

- ALL CONCRETE WORK SHALL CONFORM WITH THE LATEST AMENDED ISSUE OF SANS 1200G: STANDARD SPECIFICATION FOR CONCRETE AND SANS 0100 : THE SPECIFICATION FOR CONCRETE AND SANS 0100 : THE STRUCTURAL USE OF CONCRETE.
- CONCRETE STRENGTH SHALL BE AS FOLLOWS:

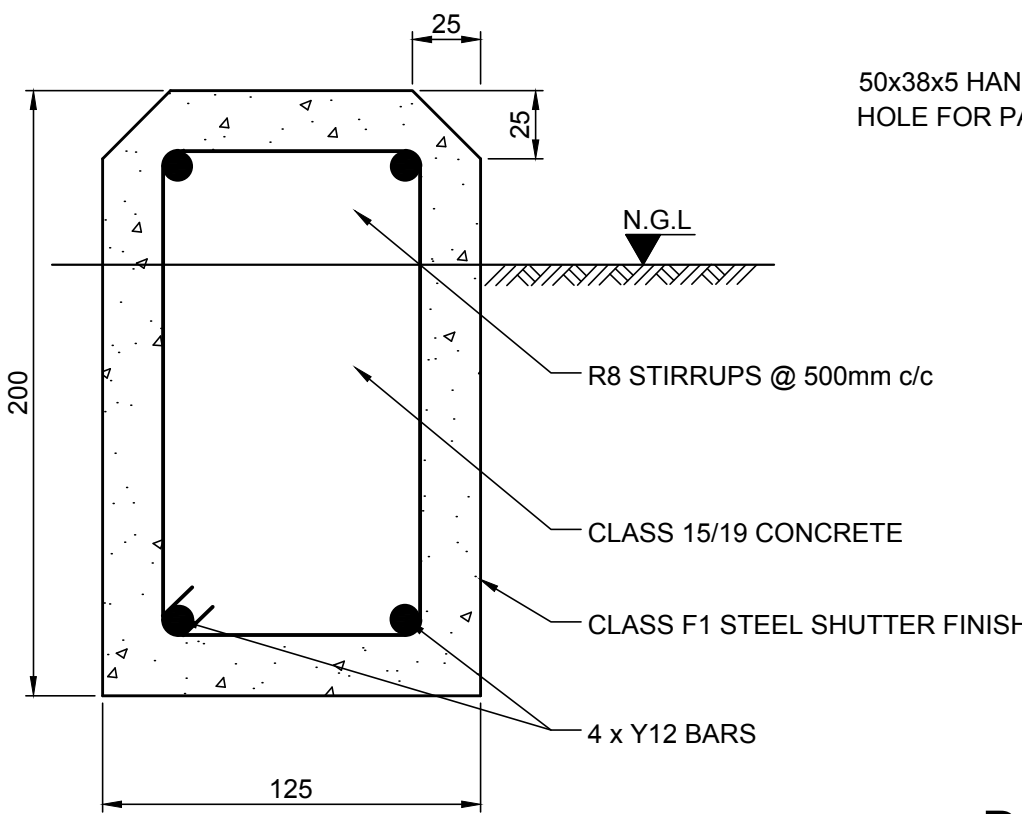
STRUCTURAL ELEMENT	CONCRETE GRADE
1. BLINDING LAYER	15MPa/19mm
2. COLUMN BASES & FOUNDATION	25MPa/19mm
3. BASEMENT FLOOR	25MPa/19mm
4. BEAMS & SLABS	25MPa/19mm
5. COLUMNS	25MPa/19mm
6. APRON SLAB	20MPa/19mm
- CONSTRUCTION WATER SHALL BE PORTABLE i.e CLEAN, FRESH AND FREE FROM HARMFUL MATTER
- ALL CONCRETE TESTING TO BE CONDUCTED BY AN INDEPENDENT ACCREDITED LABORATORY THAT IS APPROVED BY THE ENGINEER. A SET OF SIX CUBES CLEARLY LABELED AND IDENTIFIABLE MUST BE MADE FOR EVERY FIFTY CUBIC METERS (OR PORTION THEREOF) OF EVERY GRADE OF CONCRETE POURED ON A SPECIFIC DAY. THREE OF THE CUBES MUST BE TESTED AT SEVEN DAYS AND THE BALANCE AT 28 DAYS. THE TEST RESULTS ARE TO BE SUBMITTED TO THE ENGINEER IMMEDIATELY. NO SHUTTERING IS TO BE STRIPPED UNTIL FURTHER NOTICE FROM THE ENGINEER, IF ANY PROBLEMS ARE ANTICIPATED.
- ALL CONCRETE SHALL BE VIBRATED ACCORDING TO THE SPECIFICATION.
- ALL CONCRETE MUST BE CURED CONTINUOUSLY FOR SEVEN DAYS AFTER POURING AND EFFECTIVELY ROTECTED AGAINST DEHYDRATION.
- MINIMUM CONCRETE COVER TO THE MAIN REINFORCING EXCEPT WHERE NOTED OTHERWISE ON THE BENDING SCHEDULES IS AS FOLLOWS:

FOUNDATIONS	50mm
COLUMN MAIN REINFORCEMENT	40mm
RETAINING WALLS SIDE OF SOIL	50mm
OTHER SIDE	35mm
STIRRUPS IN BEAMS	30mm
SLABS	30mm
- SHUTTERING AND PROPPING MAY ONLY BE STRUCK AFTER THE LAPSE OF THE FOLLOWING TIMES (ORDINARY PORTLAND CEMENT IN NORMAL WEATHER CONDITIONS):

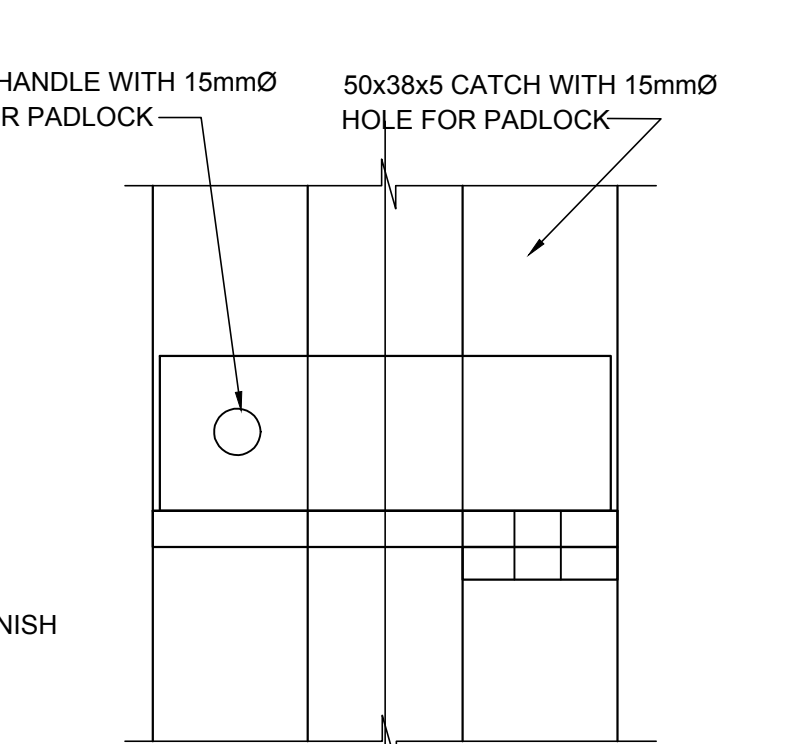
BEAM SIDE, WALLS & UNLOADED COLUMNS	2 Days 4
SLAB SOFTS WITHOUT REMOVAL OF SLAB PROPS	Days 7
BEAM SOFTS WITHOUT REMOVAL OF SLAB PROPS	Days 10
PROPS UNLOADED SLAB	Days 14
PROPS UNLOADED BEAMS	Days
- BEAM DIMENSIONS ON PLAN ARE GIVEN AS AxB WHERE:
A = WIDTH OF BEAM
B = DEPTH OF BEAM (SLAB INCLUDED)



TYPICAL DOUBLE SWING GATE
SCALE 1:25



TYPICAL SECTION THROUGH CONCRETE BEAM
SCALE 1:25



DETAIL C (FRONT ELEVATION)
SCALE 1:25

CONSULTING ENGINEERS

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Web: www.lidwala.com

Offices: Botswana, Mozambique, Namibia, South Africa, Tanzania, Zambia, Zimbabwe

Lidwala

CLIENT

JOHANNESBURG WATER

1 MAIN STREET

SWISS HOUSE

DESIGNED: M. MURIGO

SEPTEMBER 2021

DRAWN: G.M.

SEPTEMBER 2021

CHECKED: M. MURIGO

SEPTEMBER 2021

APPROVED BY: SIGNATURE T. KLEYNHANS

DATE: 20110139

20110139

SEPTEMBER 2021

CHECKED BY: SIGNATURE

DATE

Johannesburg Water

17 HARRISON STREET

MARSHALLTOWN

2107

TEL: (011) 688-1400

FAX: (011) 688-1529

REPLACEMENT OF JOHANNESBURG WATER 600mm Ø

STEEL PIPELINE FROM LINBRO PARK RESERVOIR

TO BHEKILANGA PRV STATION IN ALEXANDRA

PALISADE FENCING AND INTERLOCKING

PAVING PLAN, SECTION & DETAILS

SURVEY INFORMATION

PROJECT SURVEYOR:

DATE:

CCTV COMPANY:

DATE:

APPROVAL BY JW DEPOT

CHECKED

APPROVED BY:

SIGNATURE

DATE

APPROVAL BY JW PLANNING

CHECKED

APPROVED BY:

SIGNATURE

DATE

SCALE

1:50

REV:

00

ISSUED FOR TENDER

DATE:

MARCH 2023

AMENDMENTS

DRAWING No. JW14090R-AL-DET16-W

PROJECT No.

JW14090R-AL

SHEET

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