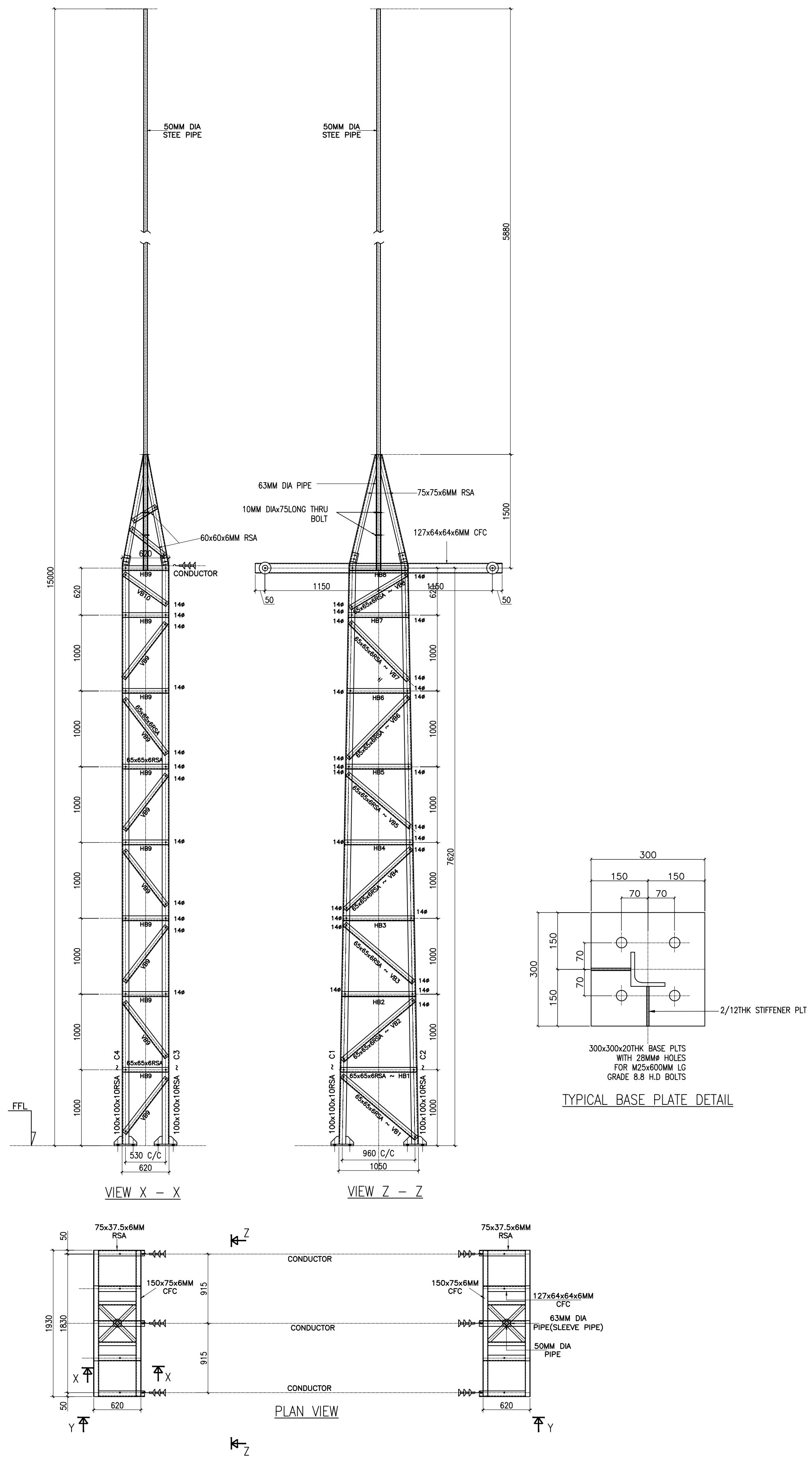

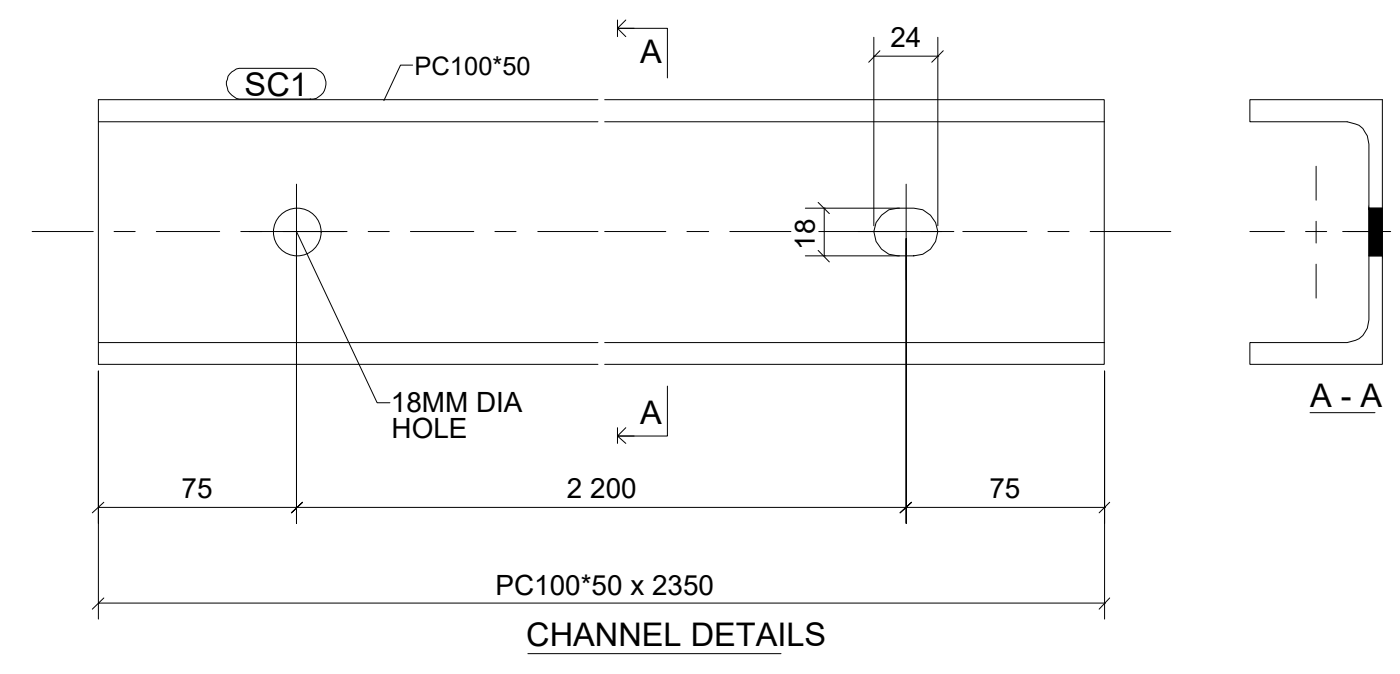
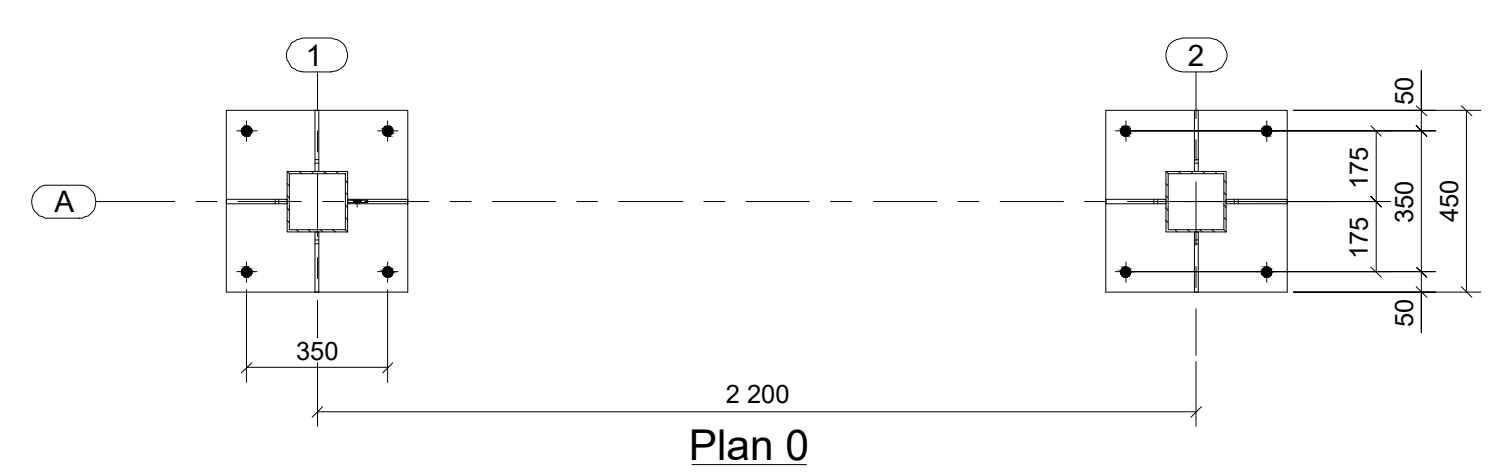
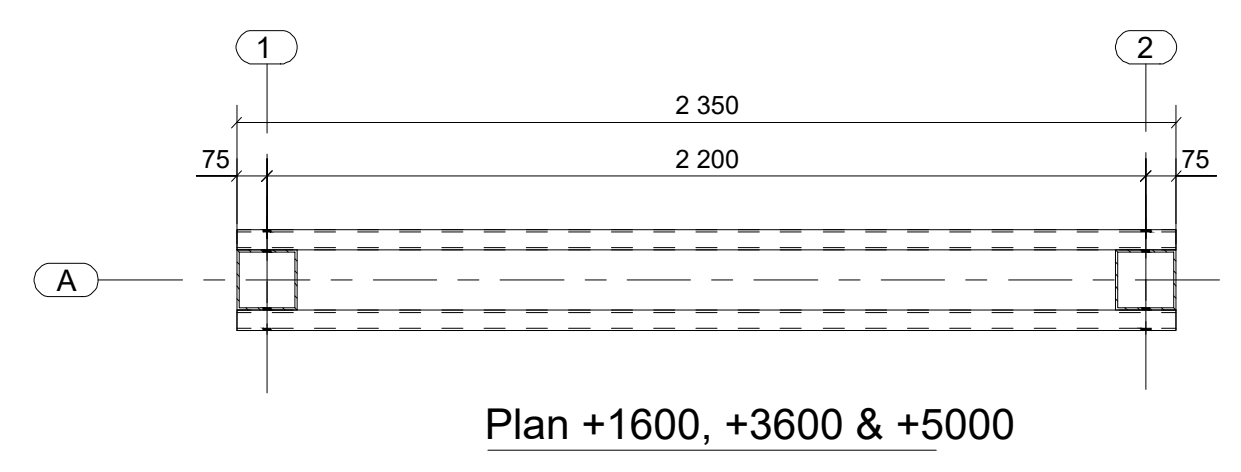
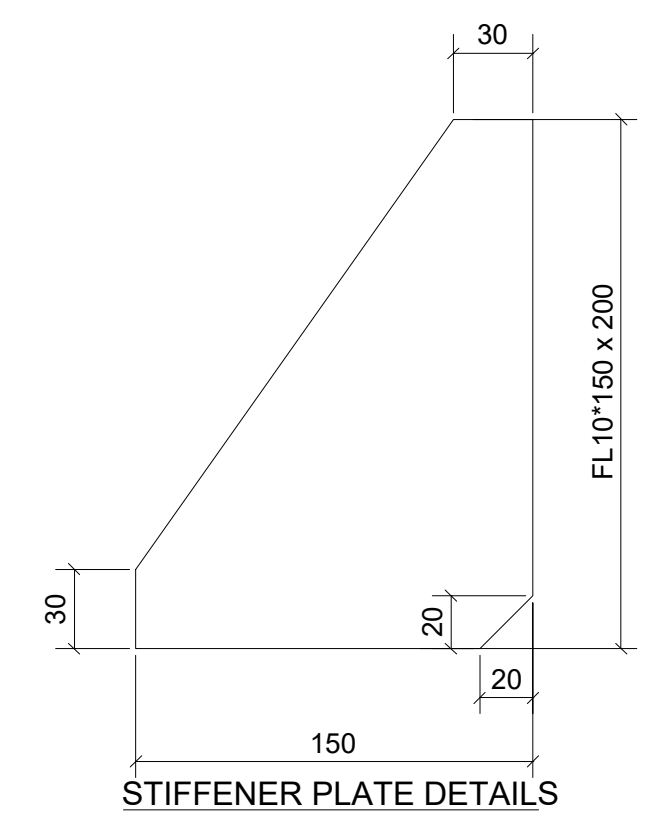
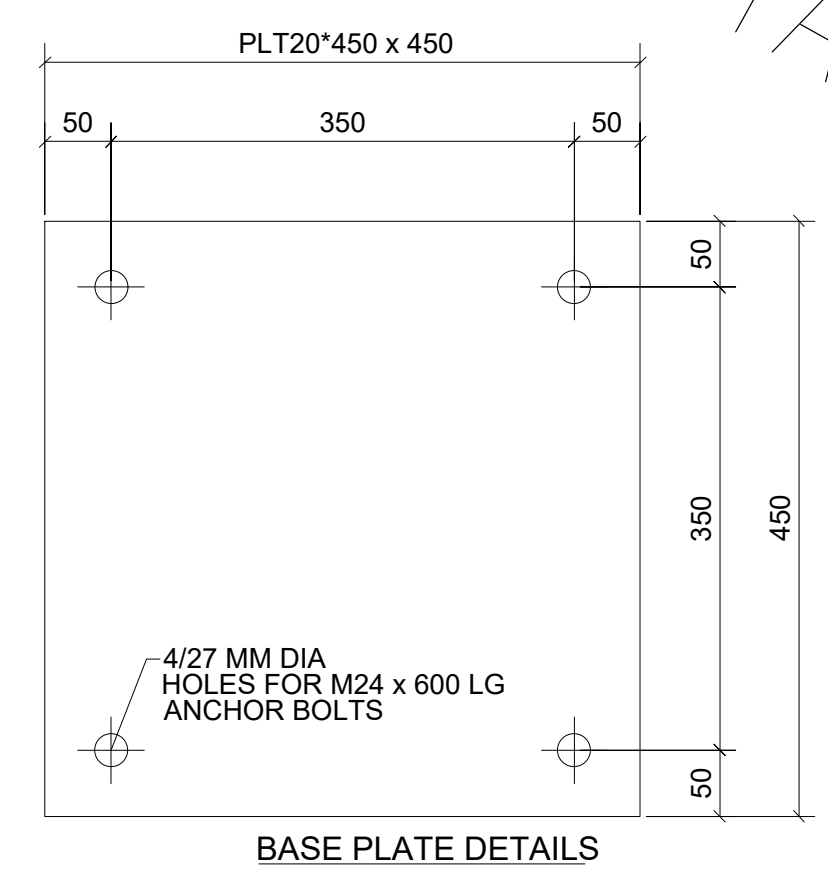
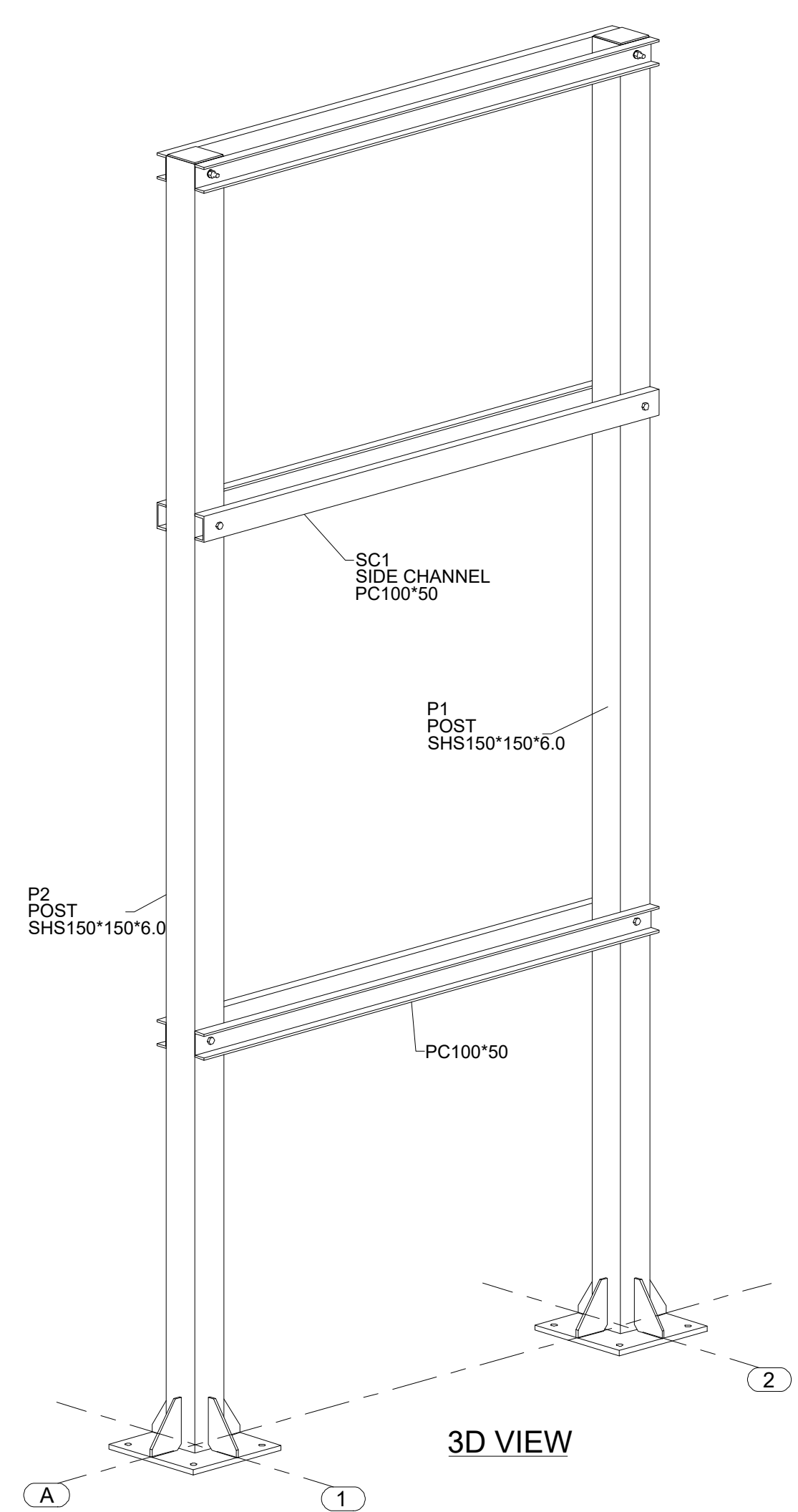
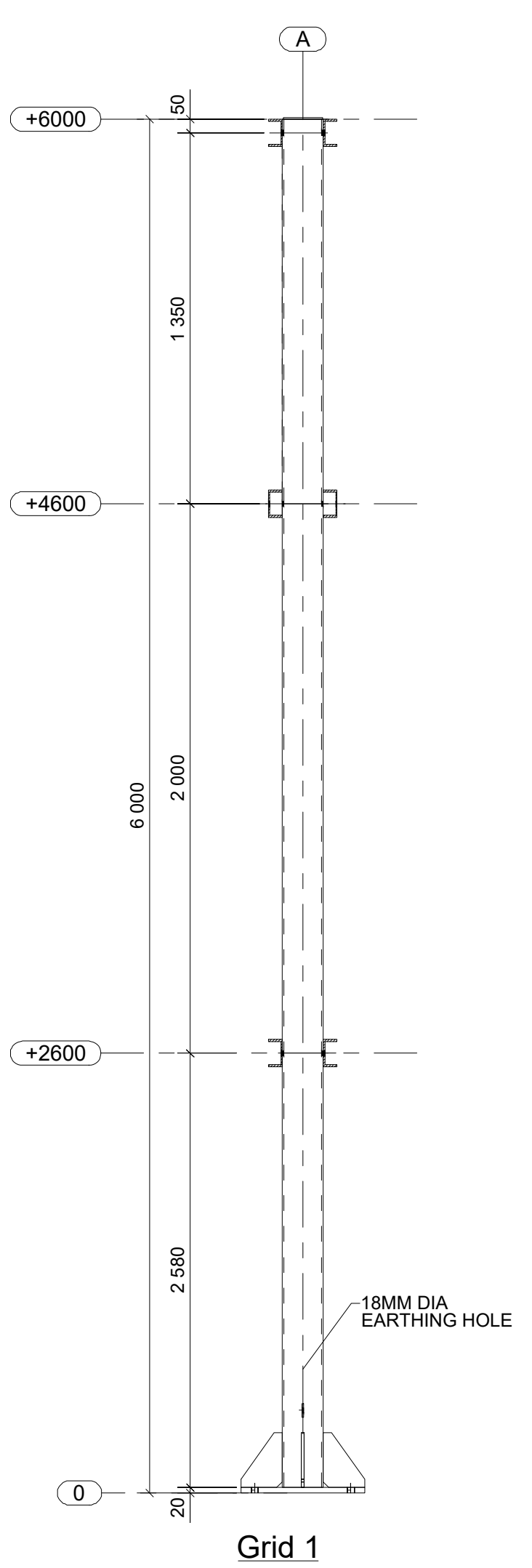
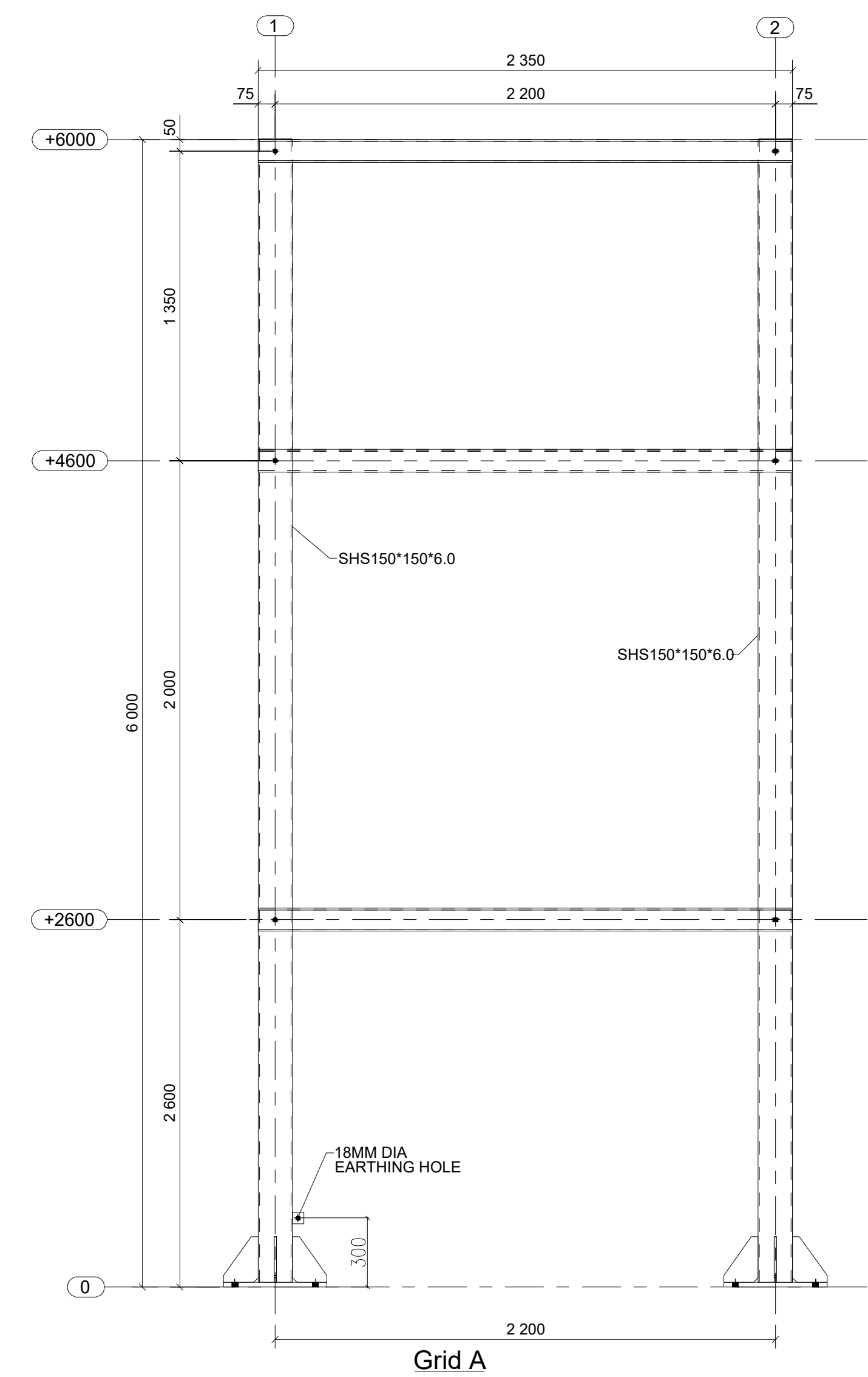


FOR TENDERING PURPOSES ONLY  
CHEMILIL 33/11KV SUB STATION



NOTES			
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5. Cover to main reinforcement to be as follows: (a) Foundation = 50mm (b) Columns = 40mm (c) Beams = 30mm (d) Slabs = 25mm			
6."H" Denotes ribbed high yield bars to BS 4461 with a yield strength of 500N/mm2 to BS 4449-2005.			
7. Reinforcement in walls and columns must be inspected by the Engineer before being enclosed in formwork.			
8. All masonry walls must be reinforced with 25mm hoop iron after every two alternate courses. The hoop iron must be extended through the column sections.			
9. To ensure enhanced bonding between the masonry and the R.C. columns, the masonry walling must be raised first before the columns are cast.			
10. All mortar used to be of cement sand mix 1:3, with all the stone walling being laid in 200mm courses with 12mm mortar joints.			
11. A minimum of 7.0N/mm2 average compressive strength of masonry in accordance with BS EN 771 and BS 5268 should be used for all wall sections.			
12. Mass concrete to be grade 12/15 to BS EN 206-1:2002.			
13. Double masonry walls to be built one at a time. Waterproofing plaster shall be applied to the inside of the first wall to Engineer's approval before the second is built .			
REVISIONS			
Date	Suffix	Descriptions	Issue
<div>CLIENT</div> <div>Kenya Power</div>			
<div>PROJECT</div> <div>PROPOSED CIVIL WORKS &amp; STEEL STRUCTURES FOR CHEMILIL 33/11KV SUB-STATION</div>			
TENDER DRAWINGS			
33KV BUSBAR STRUCTURE			
CML-STRUCTURE 001/025			
Drawn	D.WAITHERA	Scale(s)	AS INDICATED
Designed	D.WAITHERA	Date	APRIL, 2025
Checked	R.NYATUNDO	Date	APRIL, 2025
Approved	ENG. D.M.WAMBUGU	Date	APRIL, 2025
ISSUE DATE		APRIL, 2025	
JOB No.			

FOR TENDERING PURPOSES ONLY.  
CHEMILIL 33/11KV SUB STATION



### 33KV POST INSULATOR

#### NOTES

1. All dimensions are in millimeters, unless otherwise stated.
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(b) Columns = 40mm  
(c) Beams = 30mm  
(d) Slabs = 25mm
6. "H" Denotes ribbed high yield bars to BS 4461 with a yield strength of 500N/mm<sup>2</sup> to BS 4449-2005.
7. Reinforcement in walls and columns must be inspected by the Engineer before being enclosed in formwork.
8. All masonry walls must be reinforced with 25mm hoop iron after every two alternate courses. The hoop iron must be extended through the column sections.
9. To ensure enhanced bonding between the masonry and the R.C. columns, the masonry walling must be raised first before the columns are cast.
10. All mortar used to be of cement sand mix 1:3, with all the stone walling being laid in 200mm courses with 12mm mortar joints.
11. A minimum of 7.0N/mm<sup>2</sup> average compressive strength of masonry in accordance with BS EN 771 and BS 5268 should be used for all wall sections.
12. Mass concrete to be grade 12/15 to BS EN 206-1:2002.
13. Double masonry walls to be built one at a time. Waterproofing plaster shall be applied to the inside of the first wall to Engineer's approval before the second is built.

#### REVISIONS

Date	Suffix	Descriptions	Issue

#### CLIENT



#### PROJECT

PROPOSED CIVIL WORKS &  
STEEL STRUCTURES FOR  
CHEMILIL 33/11KV SUB-STATION

#### TENDER DRAWINGS

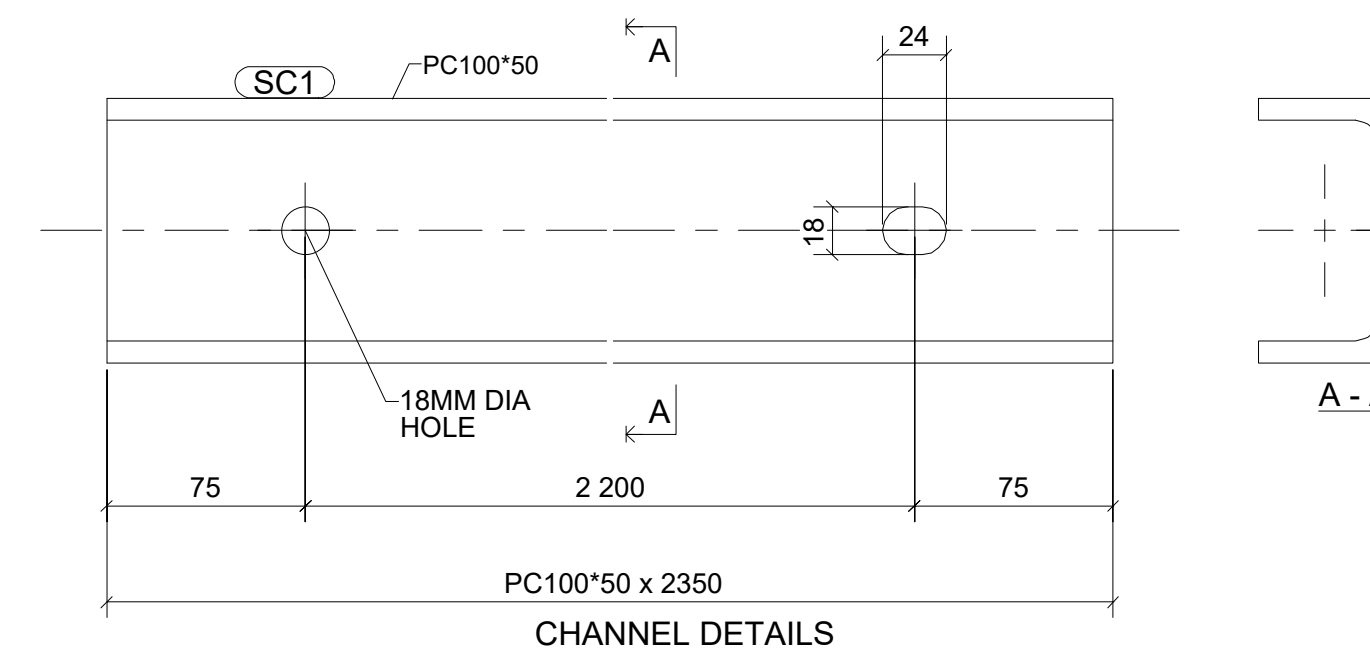
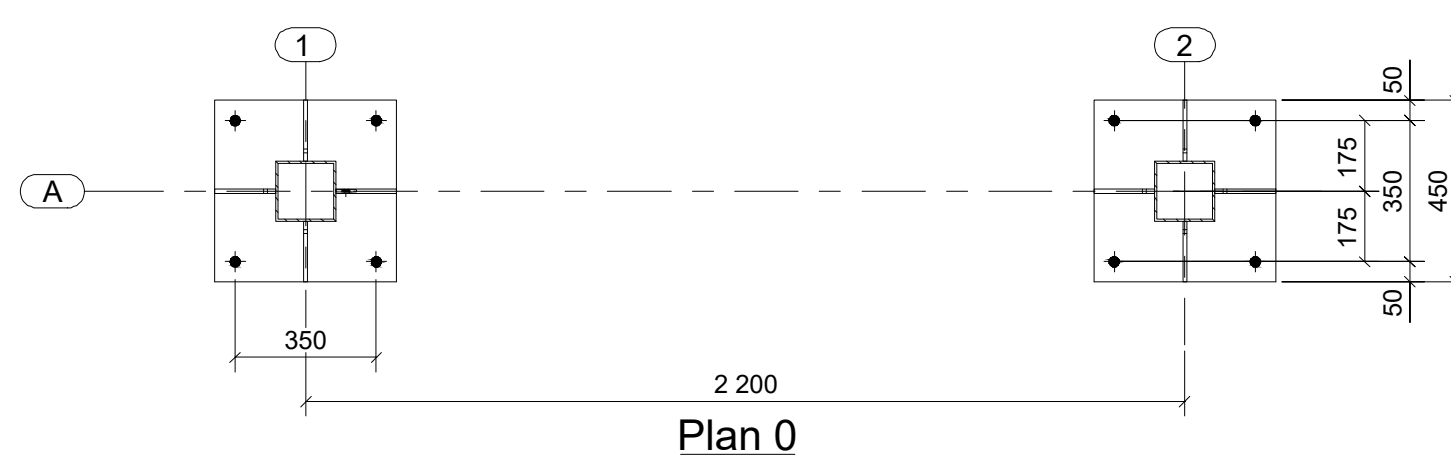
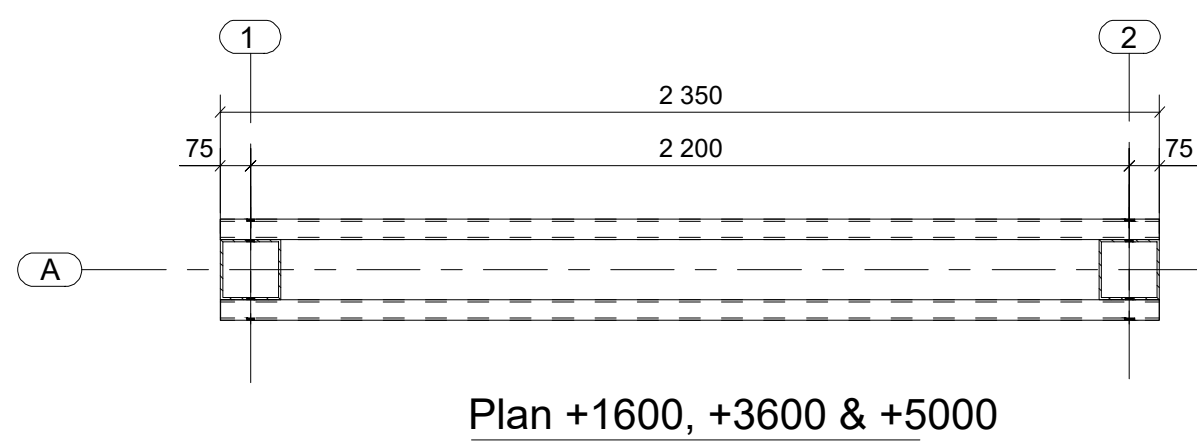
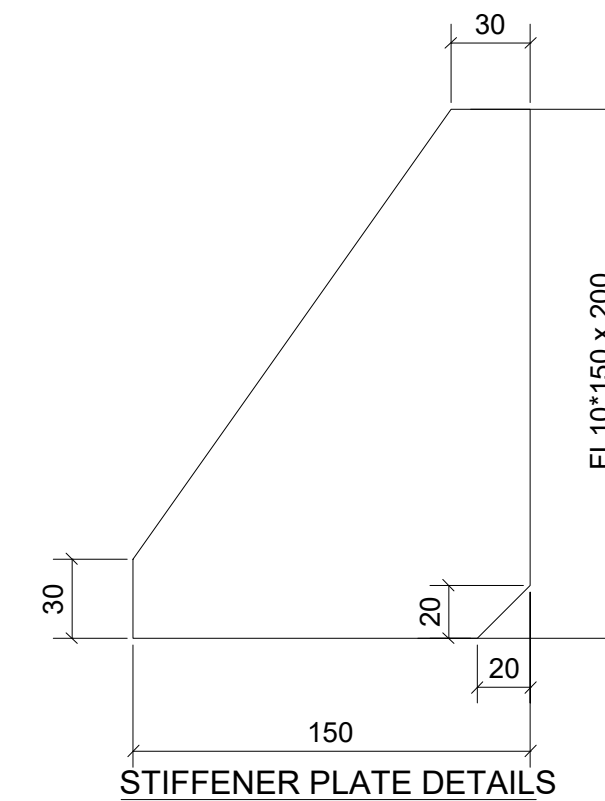
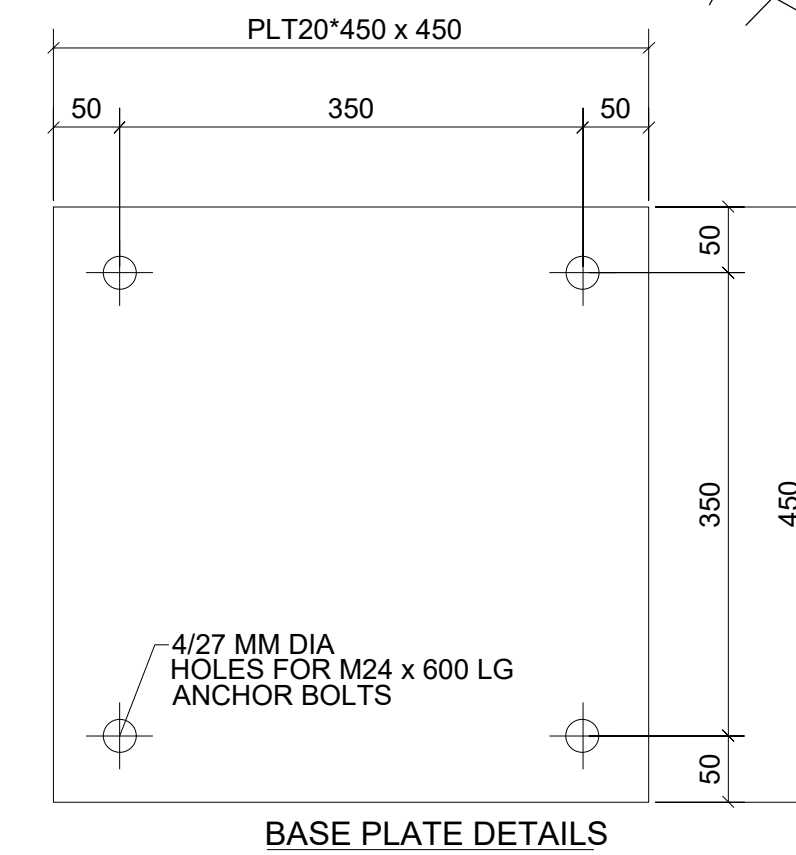
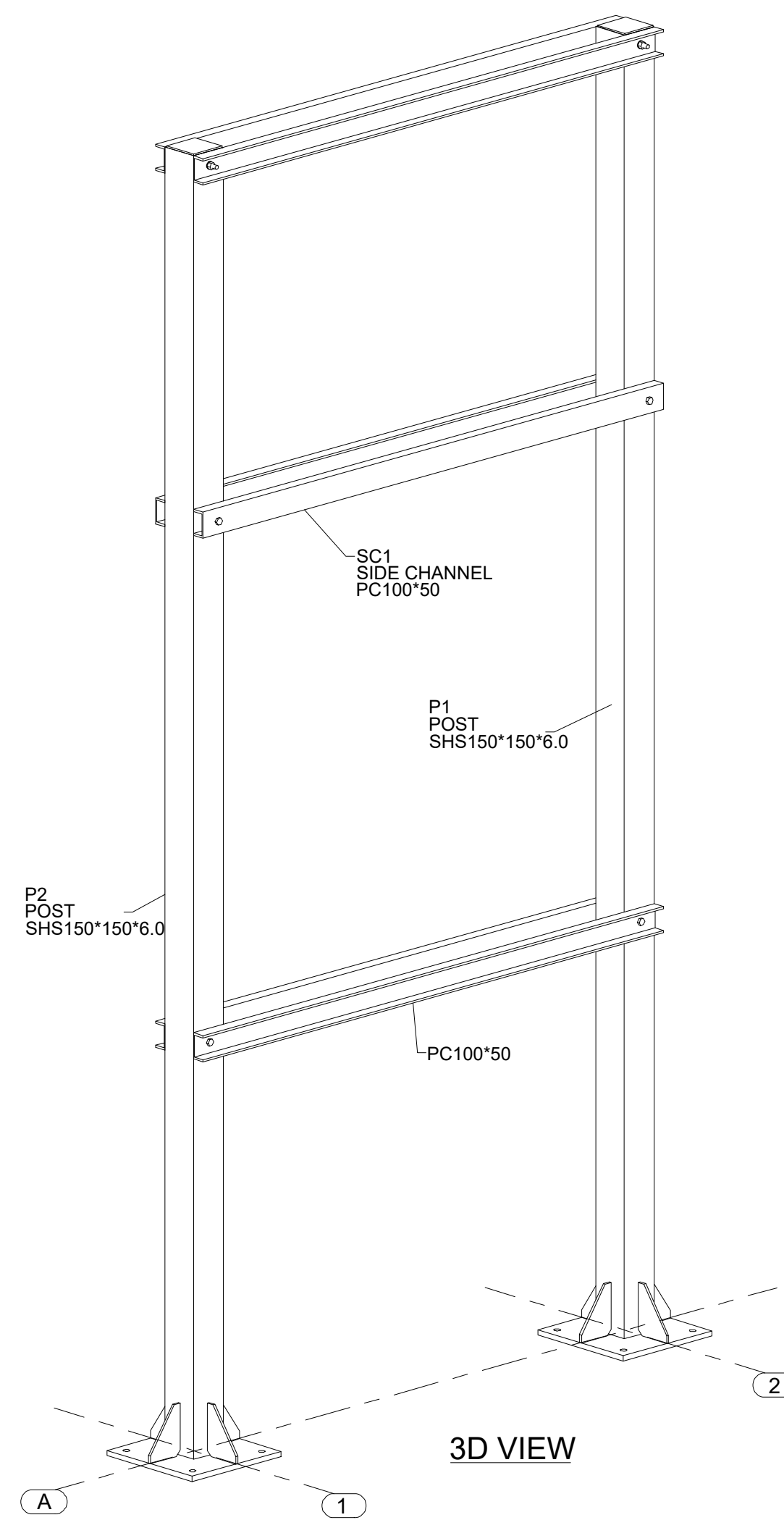
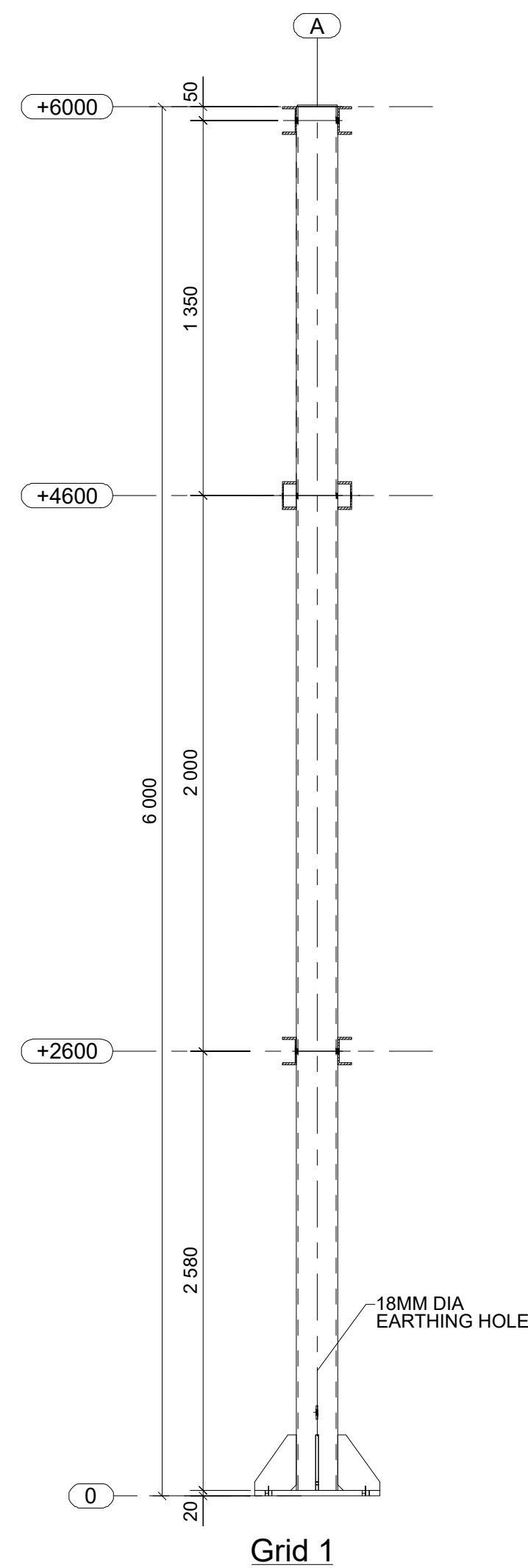
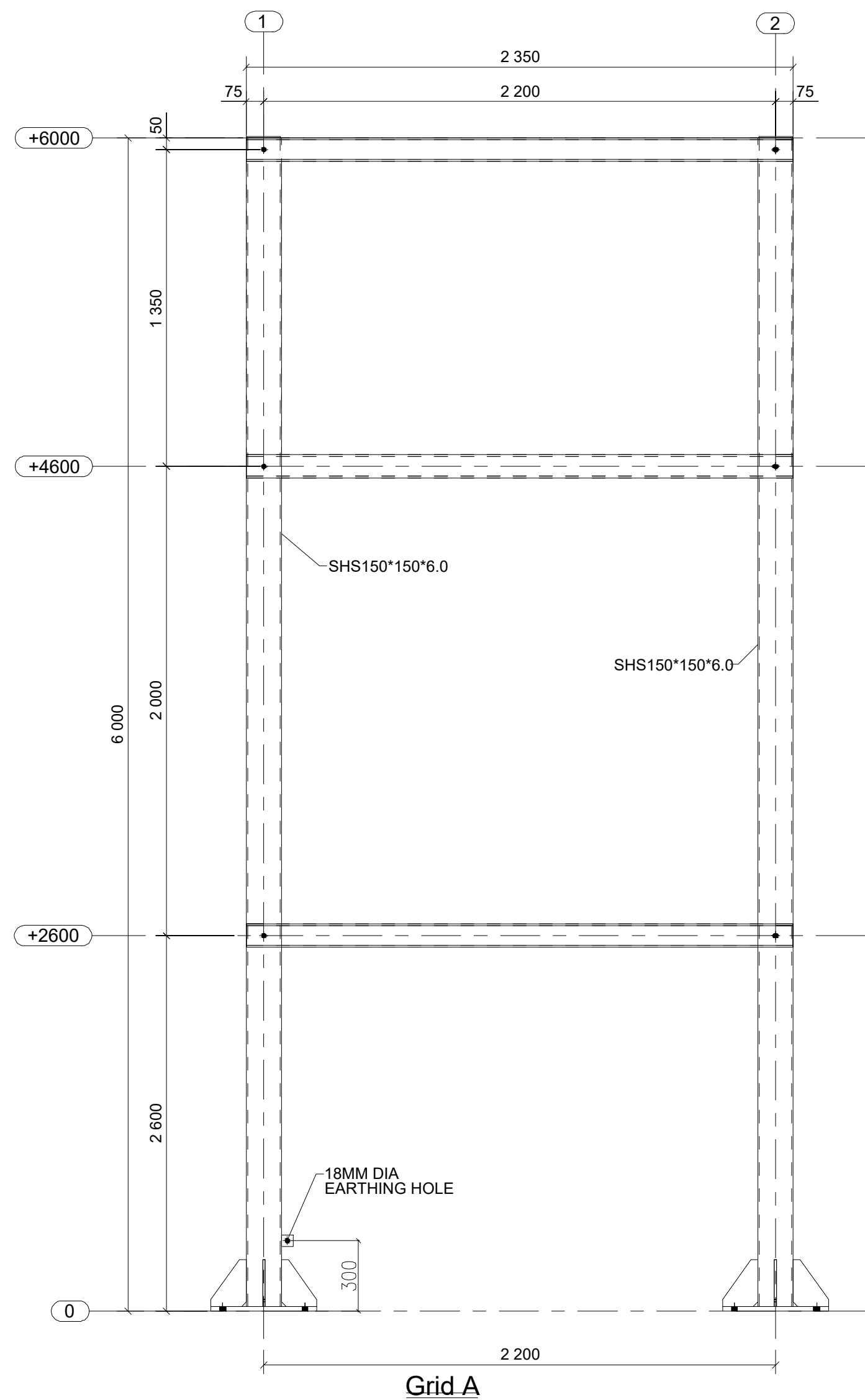
33KV POST INSULATOR

CML-STRUCTURE 002/025

Drawn	D. WAITHERA	Scale(s)	AS INDICATED
Designed	D. WAITHERA	Date	APRIL, 2025
Checked	R. NYATUNDO	Date	APRIL, 2025
Approved	ENG. D.M. WAMBUGU	Date	APRIL, 2025
ISSUE DATE		APRIL, 2025	
JOB No.			



FOR TENDERING PURPOSES ONLY.  
CHEMILIL 33/11KV SUB STATION



## STEEL STRUCTURE WITH 33KV A/B SWITCH

### NOTES

- All dimensions are in millimeters, unless otherwise stated.
- This drawing must not be scaled, only figured dimensions should be used.
- This drawing must be read in conjunction with relevant Architectural drawings.
- Reinforced concrete for all structural elements to be grade C20/25 to BS EN 206-1:2002, except for the ground floor slab (grade C16/20), and roof slab (C25/30).
- Cover to main reinforcement to be as follows:
  - Foundation = 50mm
  - Columns = 40mm
  - Beams = 30mm
  - Slabs = 25mm
- "H" Denotes ribbed high yield bars to BS 4461 with a yield strength of 500N/mm<sup>2</sup> to BS 4449-2005.
- Reinforcement in walls and columns must be inspected by the Engineer before being enclosed in formwork.
- All masonry walls must be reinforced with 25mm hoop iron after every two alternate courses. The hoop iron must be extended through the column sections.
- To ensure enhanced bonding between the masonry and the R.C. columns, the masonry walling must be raised first before the columns are cast.
- All mortar used to be of cement sand mix 1:3, with all the stone walling being laid in 200mm courses with 12mm mortar joints.
- A minimum of 7.0N/mm<sup>2</sup> average compressive strength of masonry in accordance with BS EN 771 and BS 5268 should be used for all wall sections.
- Mass concrete to be grade 12/15 to BS EN 206-1:2002.
- Double masonry walls to be built one at a time. Waterproofing plaster shall be applied to the inside of the first wall to Engineer's approval before the second is built.

### REVISIONS

Date	Suffix	Descriptions	Issue

### CLIENT



### PROJECT

**PROPOSED CIVIL WORKS &  
STEEL STRUCTURES FOR  
CHEMILIL 33/11KV SUB-STATION**

### TENDER DRAWINGS

**33KV A/B SWITCH**

**CML-STRUCTURE 003/025**

Drawn	D.WAITHERA	Scale(s)	AS INDICATED
Designed	D.WAITHERA	Date	APRIL, 2025
Checked	R.NYATUNDO	Date	APRIL, 2025
Approved	ENG. D.M.WAMBUGU	Date	APRIL, 2025

ISSUE DATE	APRIL, 2025
JOB No.	

100 x 50 x 10 mm U-CHANNEL

2650

1100

1100

450 x 450 x 8 mm Plate

1:1

2400

100 x 50 x 6 mm U-CHANNEL

200X200X6 mm thick - 5000LG  
M.S SQUARE HOLLOW SECTION

18mm DIA EARTHING  
HOLE

GROUND LEVEL

GROUND LEVEL

2200

450 x 450 x 8 mm Thick Plate

100 x 50 x 6 mm Thick U-CHANNEL

450 x 450 x 10 mm Thick Top Plate

B B

A A

12mm thick m.s flat welded to both ms pole & base plate

GROUND LEVEL

GROUND LEVEL

Technical drawing of a rectangular plate with a central square hole. The plate has overall dimensions of 450x450. The central square hole has a side length of 350. The distance from the hole's edges to the plate's edges is 50. A detail view 'A' shows a corner of the plate with a fillet radius R18.

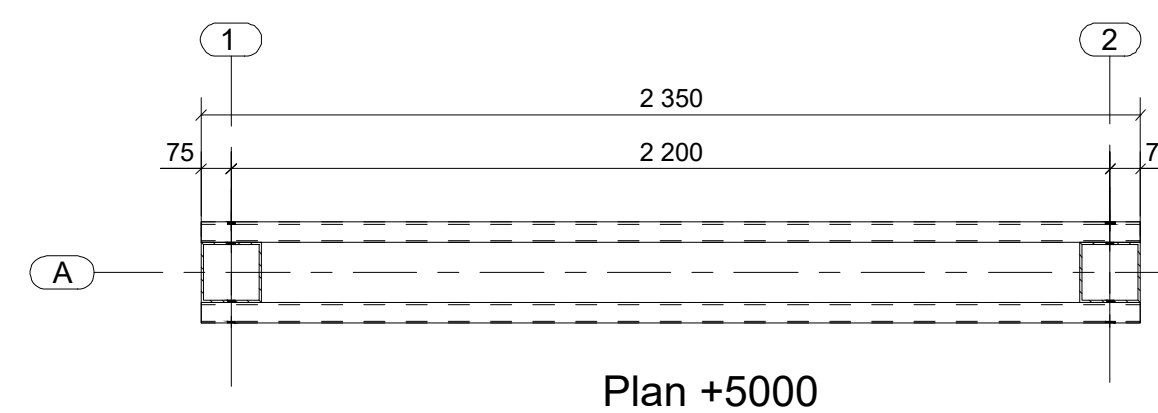
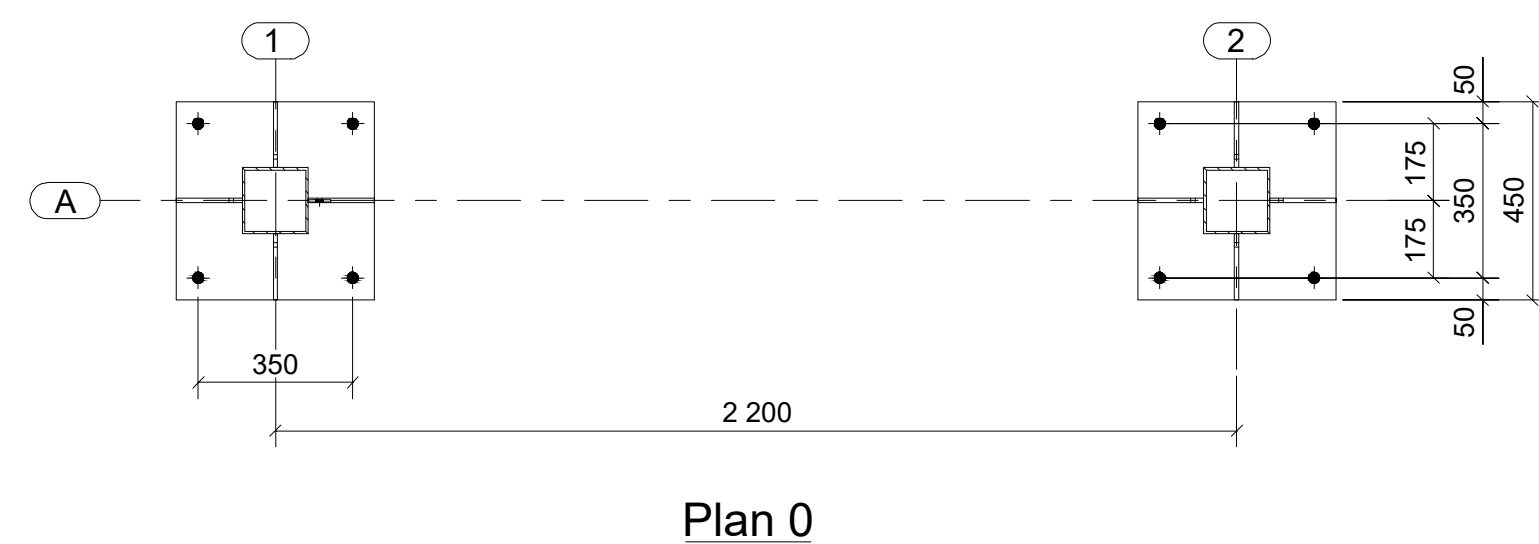
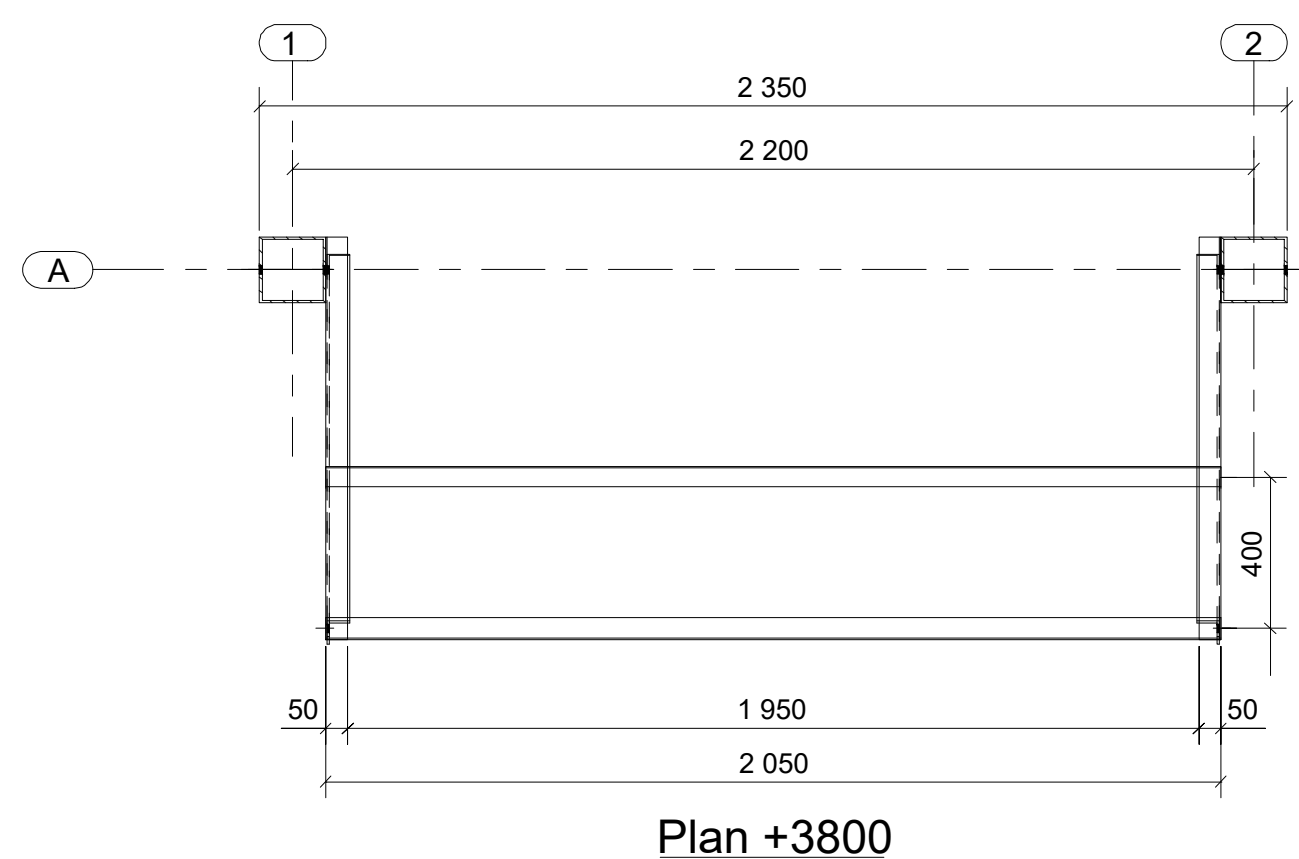
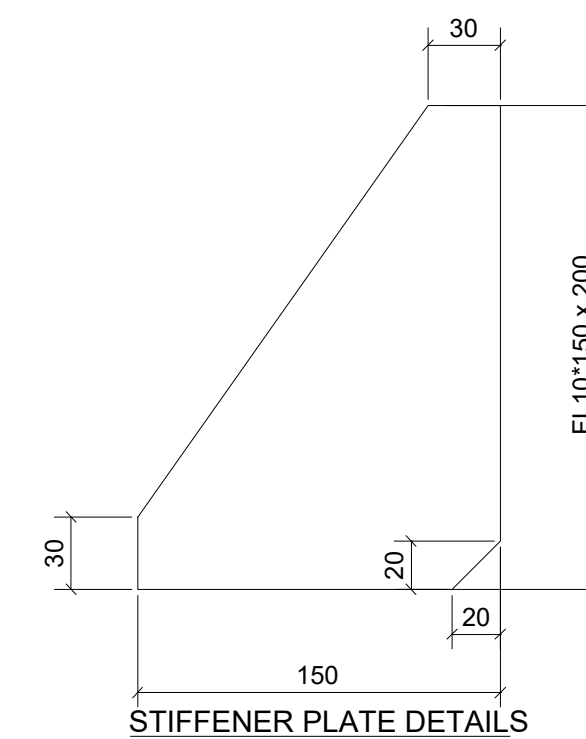
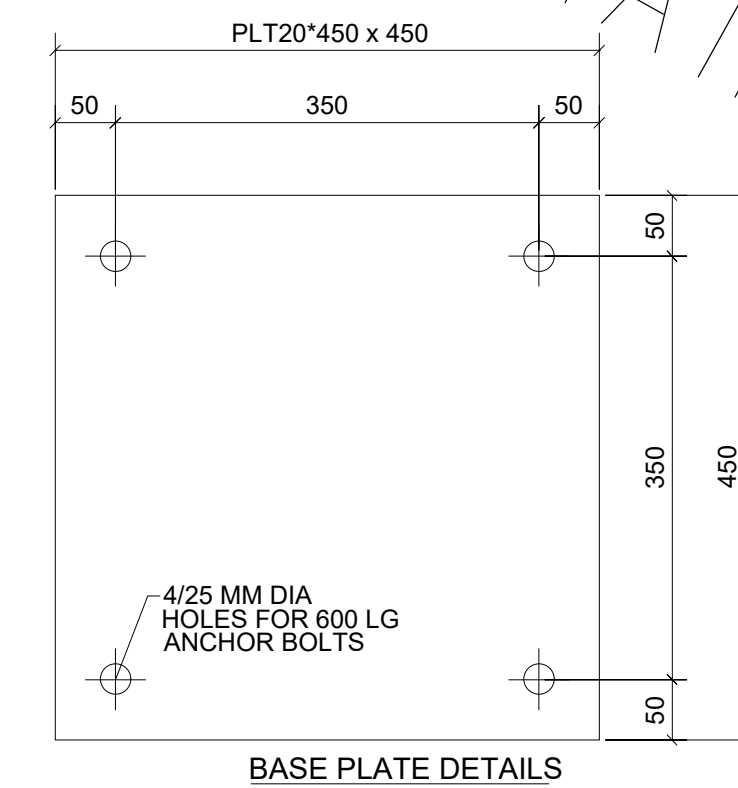
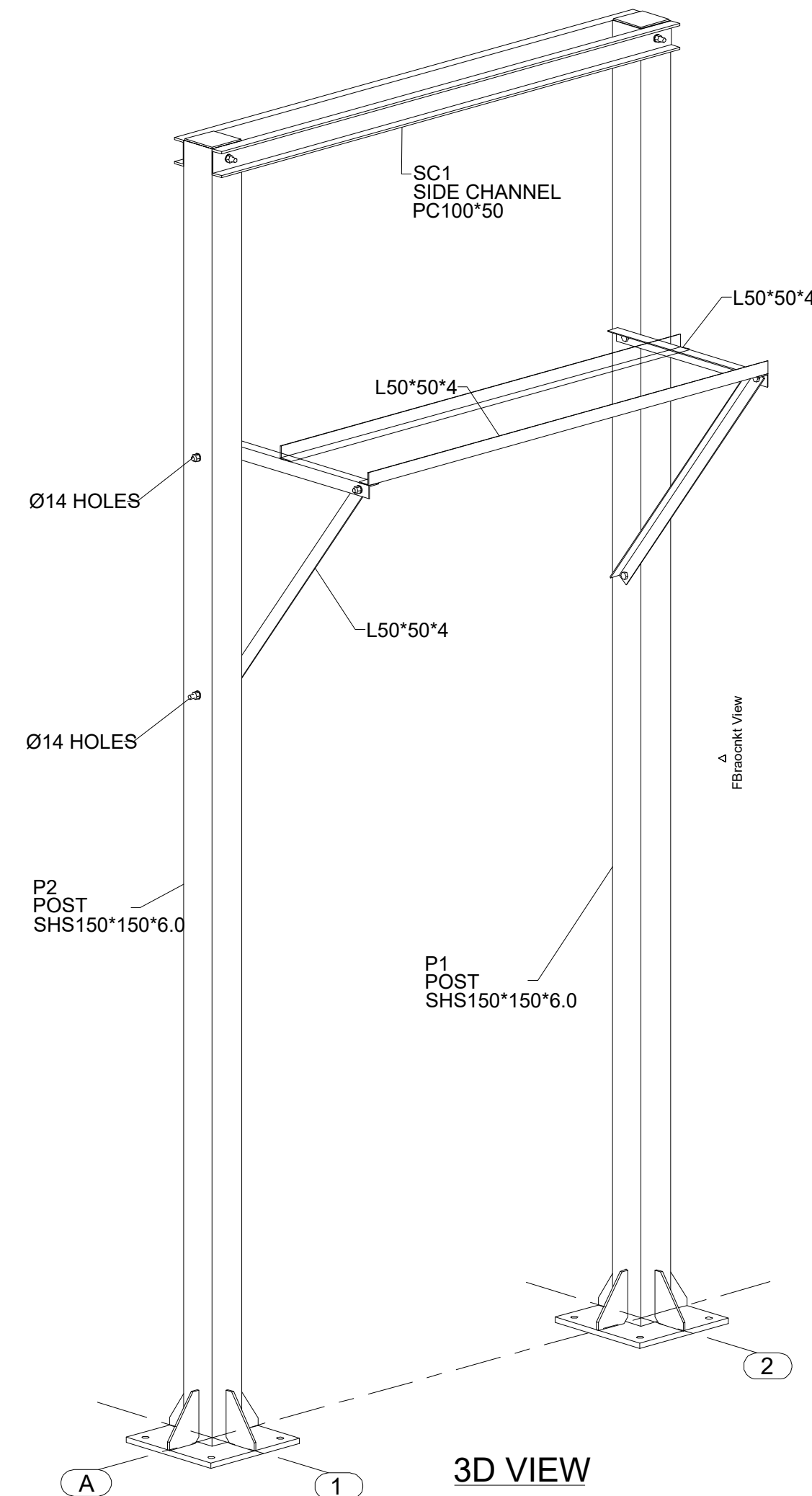
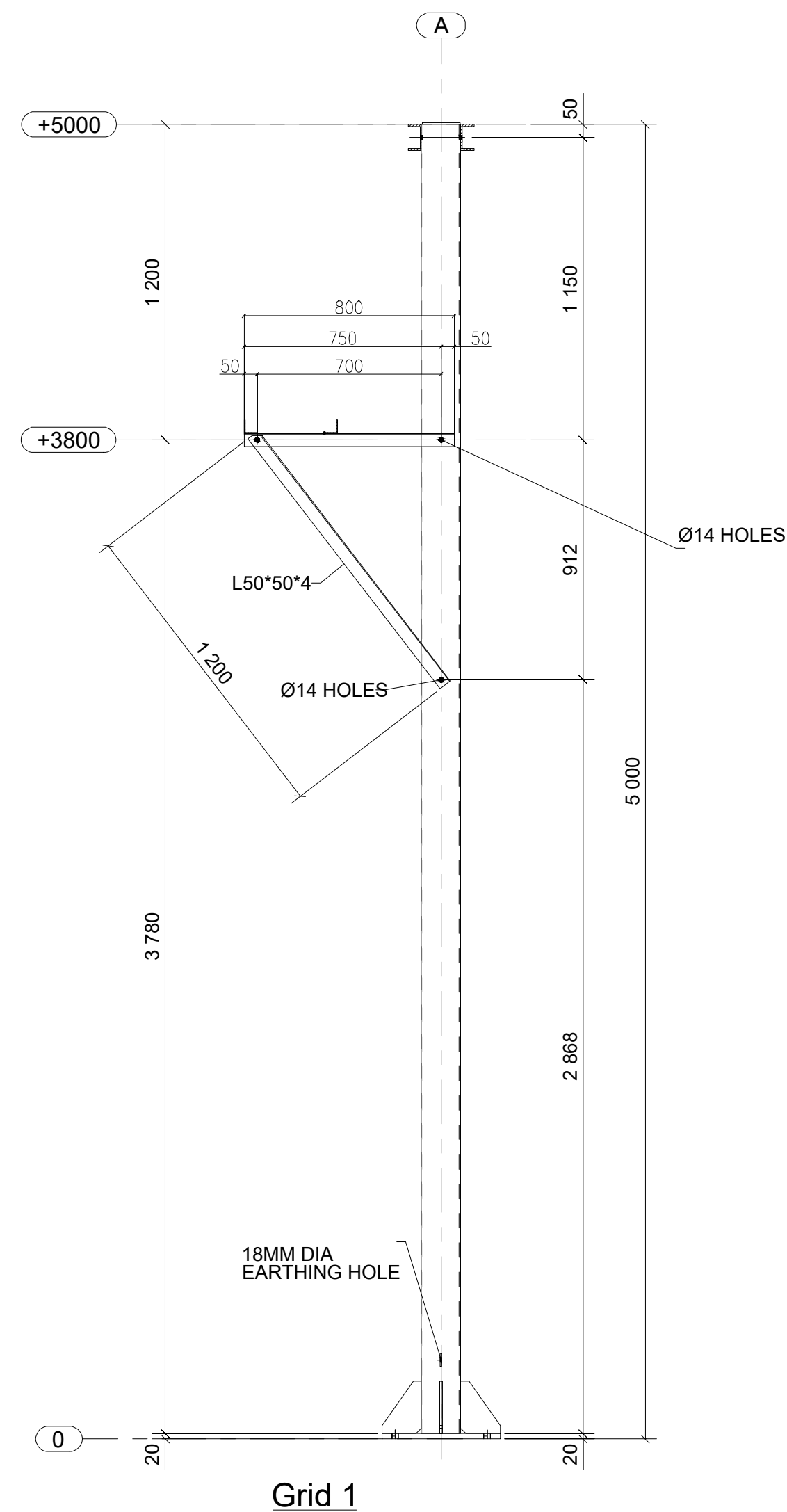
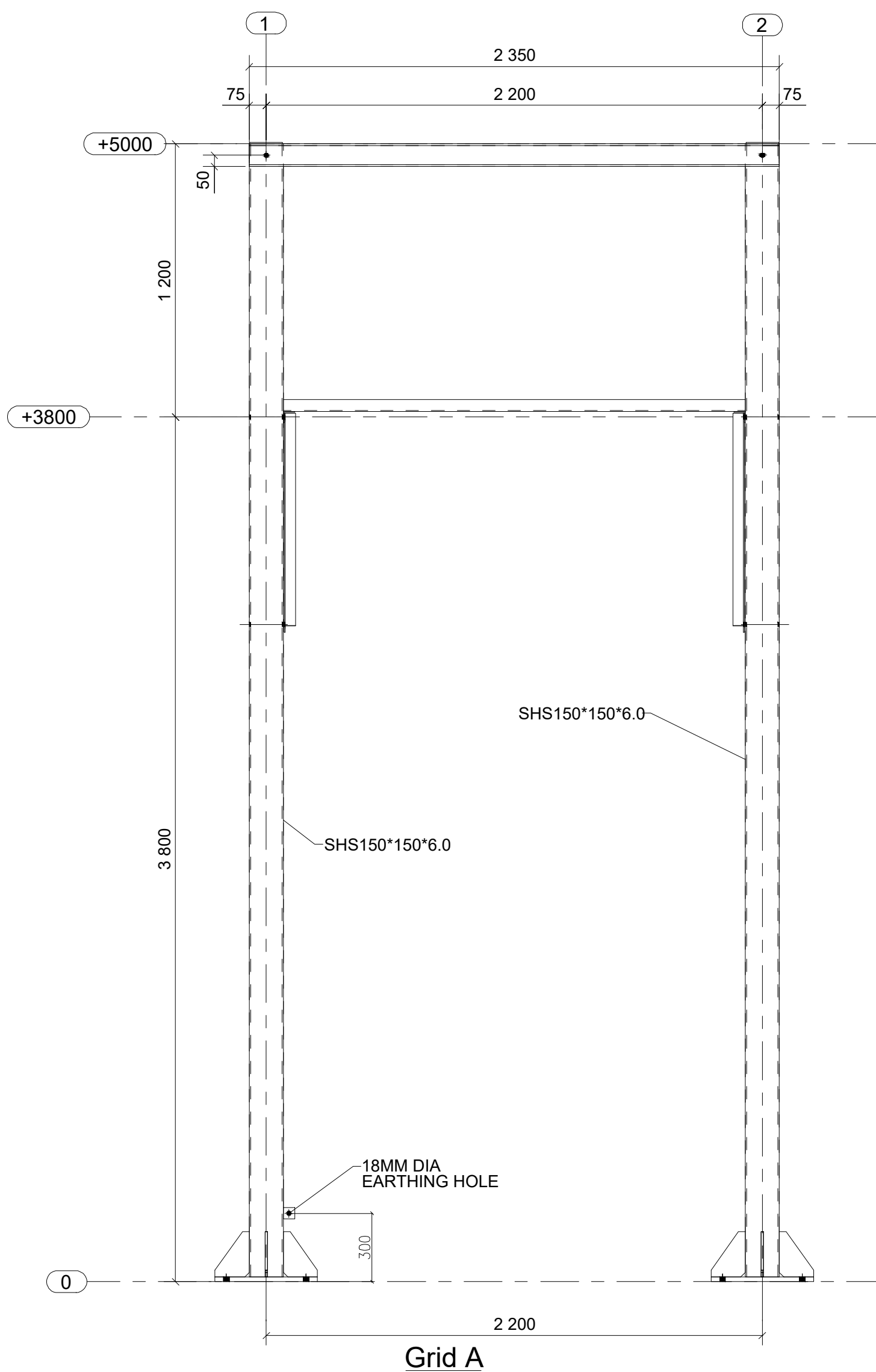
Technical drawing of a stepped profile. The profile consists of a vertical line on the left, a horizontal line at the top, a diagonal line sloping down to the right, a horizontal line at the bottom, and a vertical line on the right. Dimensions are indicated by arrows and numbers: the total height is 200, the height of the top horizontal section is 180, the height of the bottom horizontal section is 30, the width of the bottom horizontal section is 120, and the total width is 140.

ISSUE DATE	APRIL, 2025
JOB No.	

## 33 KV CIRCUIT TRANSFORMER



FOR TENDERING PURPOSES ONLY  
CHEMILIL 33/11KV SUB STATION



## 11KV POST INSULATOR / SURGE DIVERTER/ VOLTAGE TRANSFORMER

### NOTES

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- This drawing must be read in conjunction with relevant Architectural drawings.
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- To ensure enhanced bonding between the masonry and the R.C. columns, the masonry walling must be raised first before the columns are cast.
- All mortar used to be of cement sand mix 1:3, with all the stone walling being laid in 200mm courses with 12mm mortar joints.
- A minimum of 7.0N/mm<sup>2</sup> average compressive strength of masonry in accordance with BS EN 771 and BS 5268 should be used for all wall sections.
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### REVISIONS

Date	Suffix	Descriptions	Issue

### CLIENT



### PROJECT

## PROPOSED CIVIL WORKS & STEEL STRUCTURES FOR CHEMILIL 33/11KV SUB-STATION

### TENDER DRAWINGS

### 11KV POST INSULATOR /

### SURGE DIVERTER /

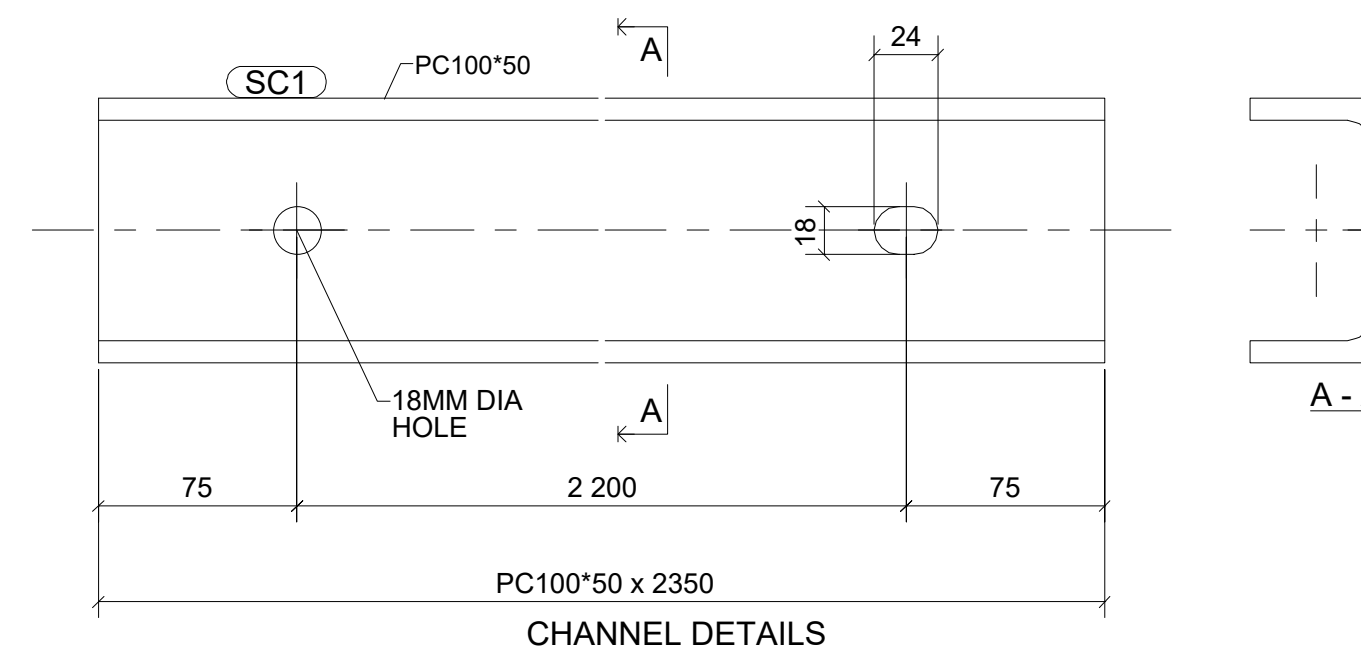
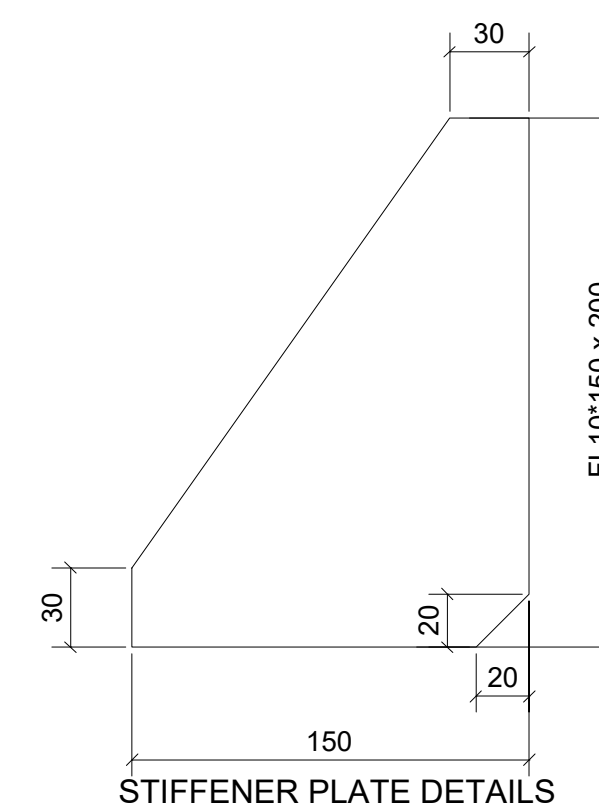
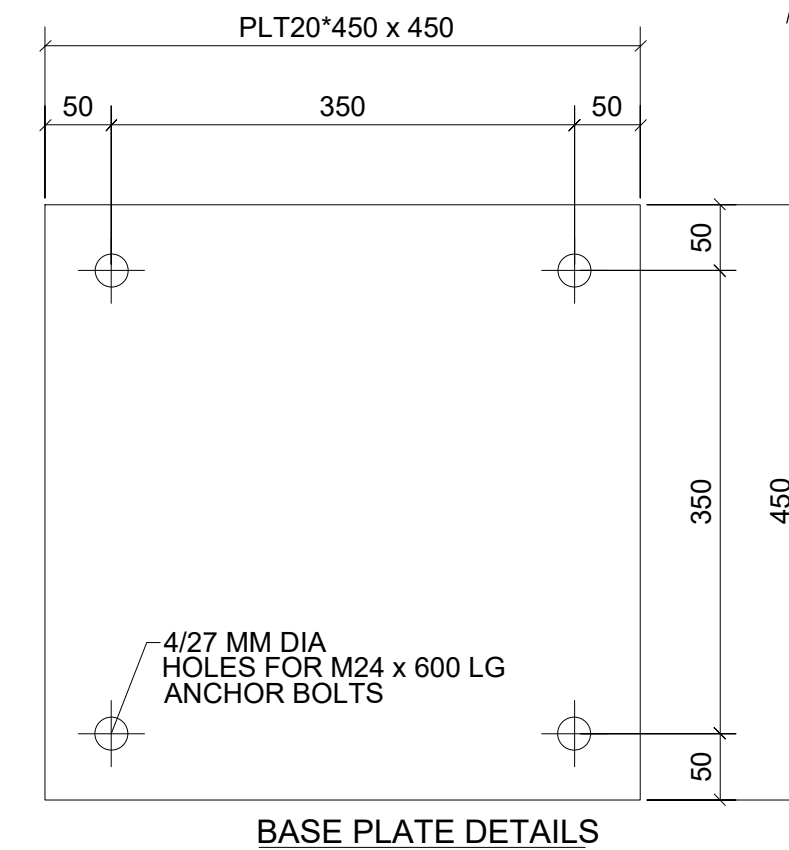
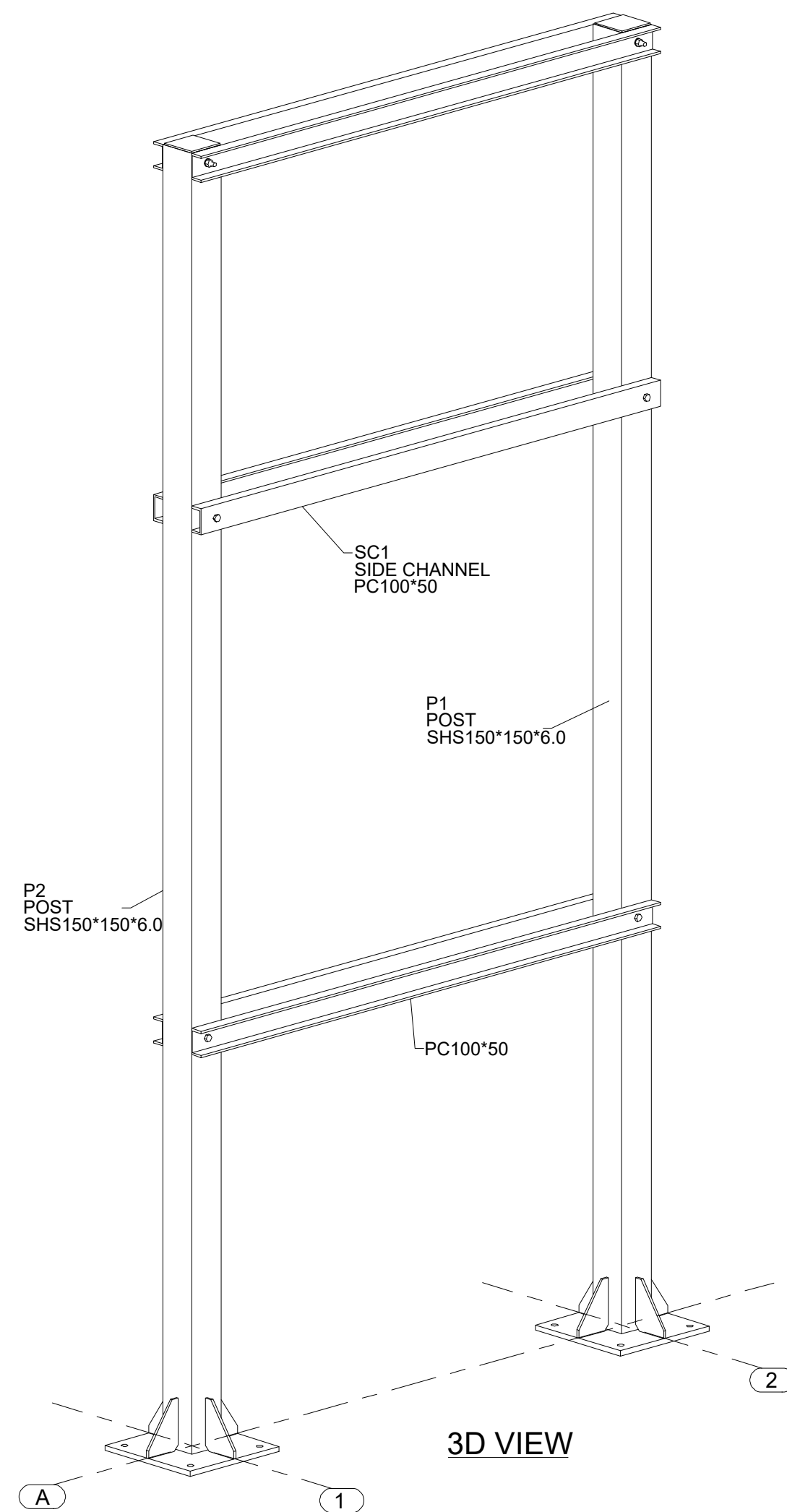
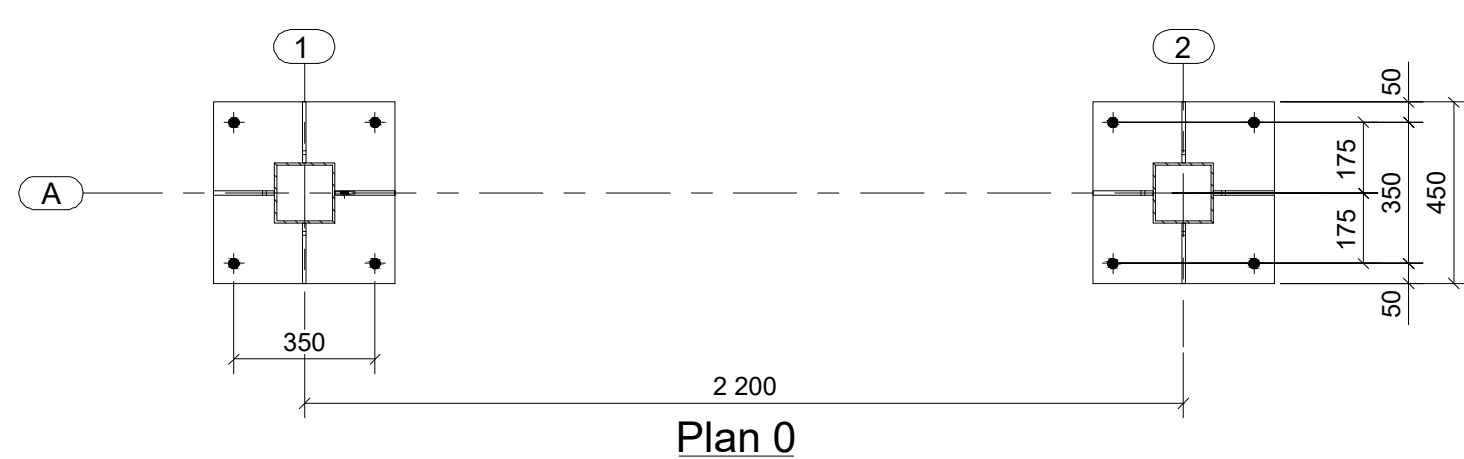
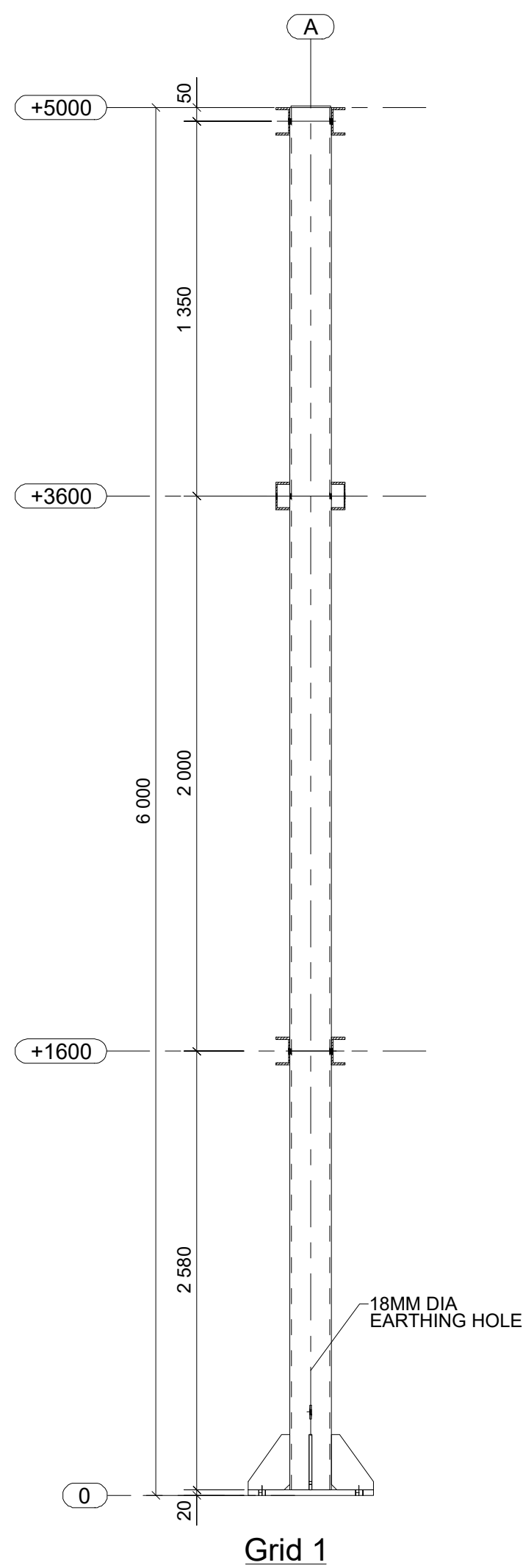
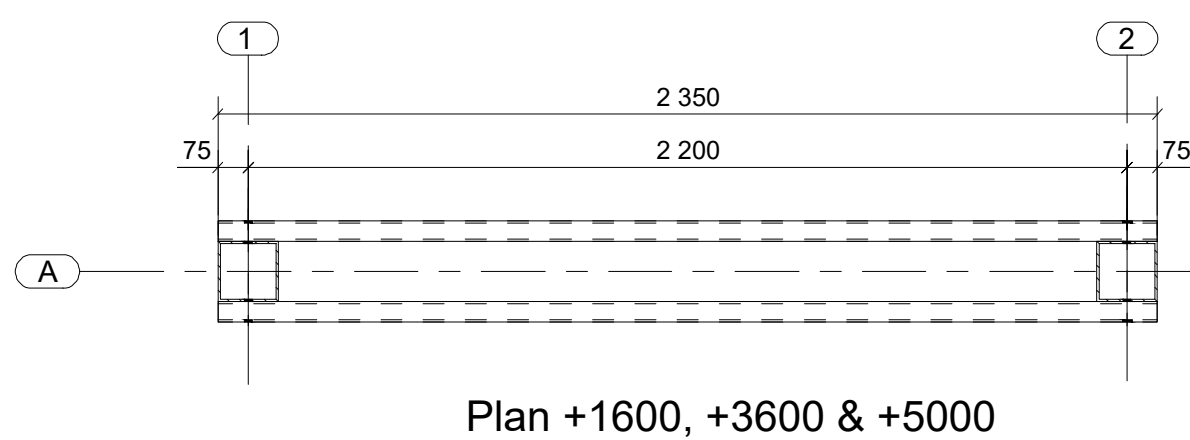
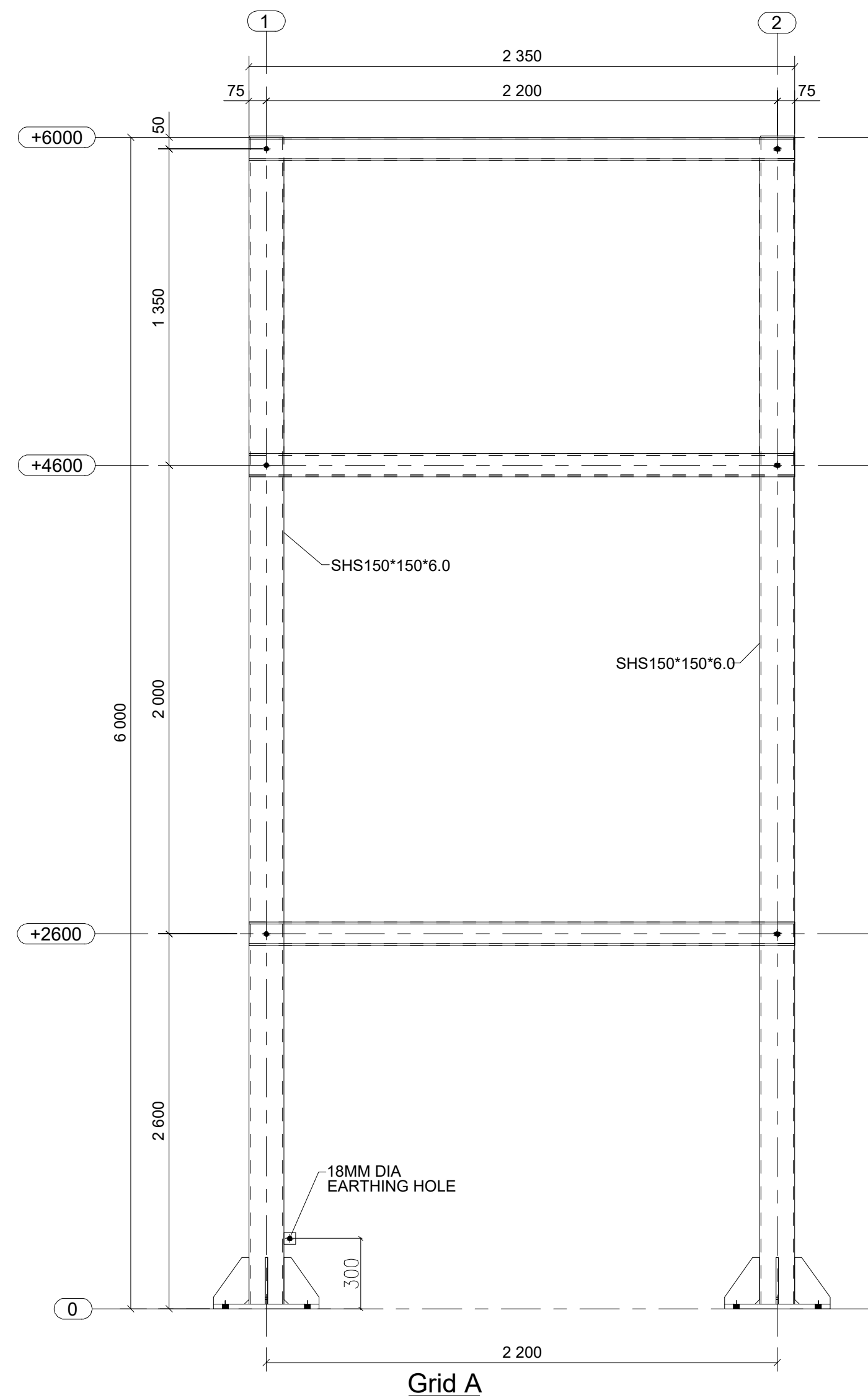
### VOLTAGE TRANSFORMER

### CML-STRUCTURE 005/025

Drawn	D.WAITHERA	Scale(s)	AS INDICATED
Designed	D.WAITHERA	Date	APRIL, 2025
Checked	R.NYATUNDO	Date	APRIL, 2025
Approved	ENG. D.M.WAMBUGU	Date	APRIL, 2025

ISSUE DATE	APRIL, 2025
JOB No.	

FOR TENDERING PURPOSES ONLY.  
CHEMILIL 33/11KV SUB STATION



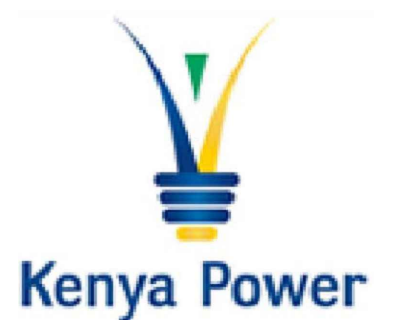
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#### REVISIONS

Date	Suffix	Descriptions	Issue

#### CLIENT



#### PROJECT

**PROPOSED CIVIL WORKS & STEEL STRUCTURES FOR CHEMILIL 33/11KV SUB-STATION**

#### TENDER DRAWINGS

**11KV A/B, TAPLIN ISOLATOR/**

**AUTO RECLOSURE**

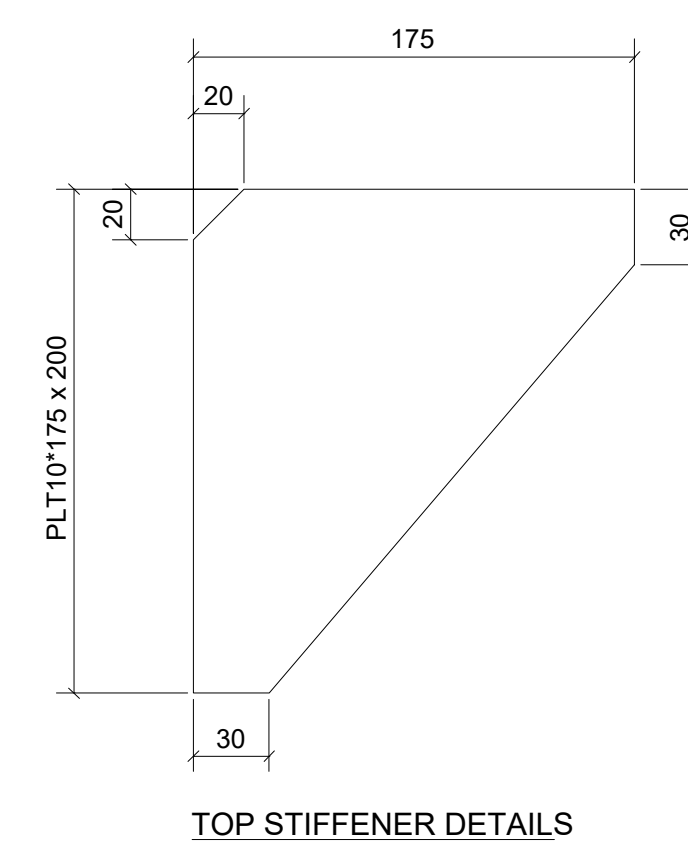
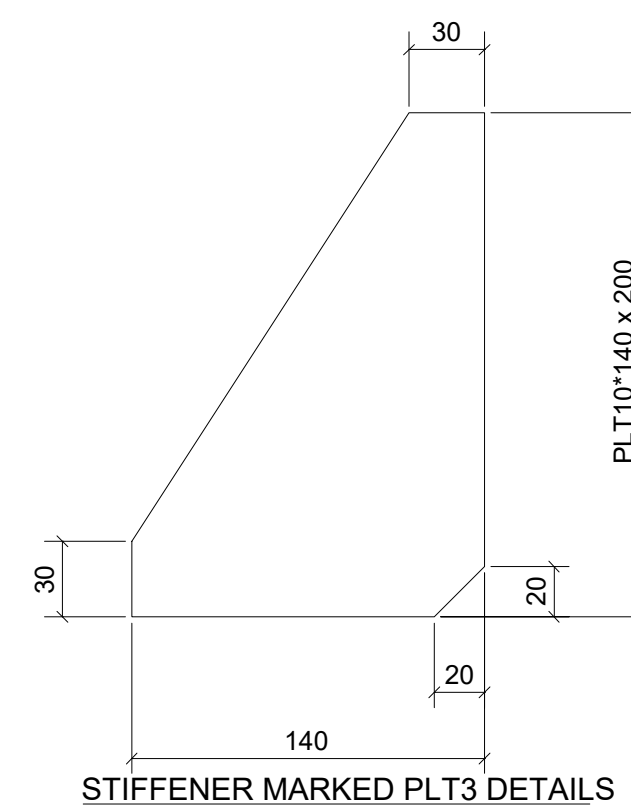
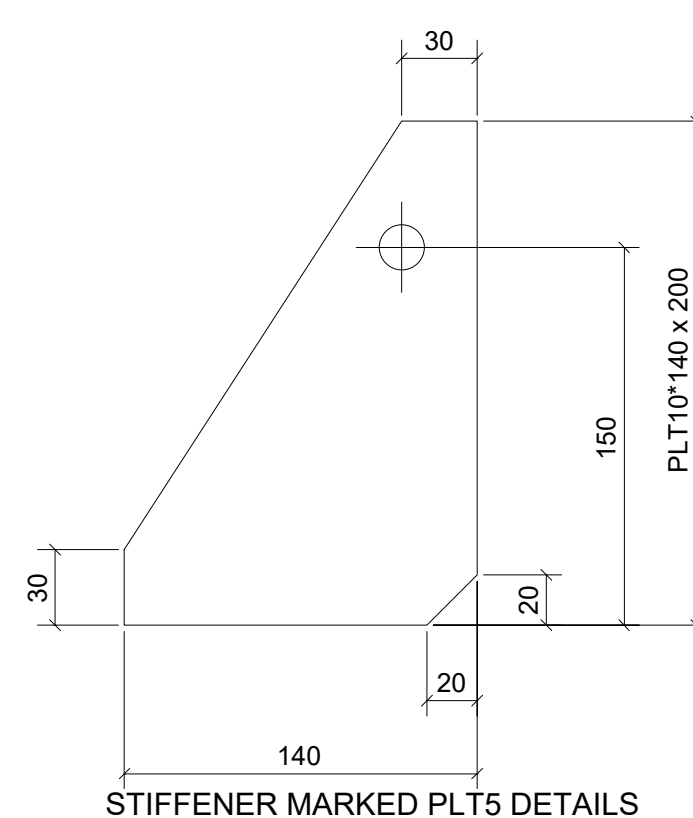
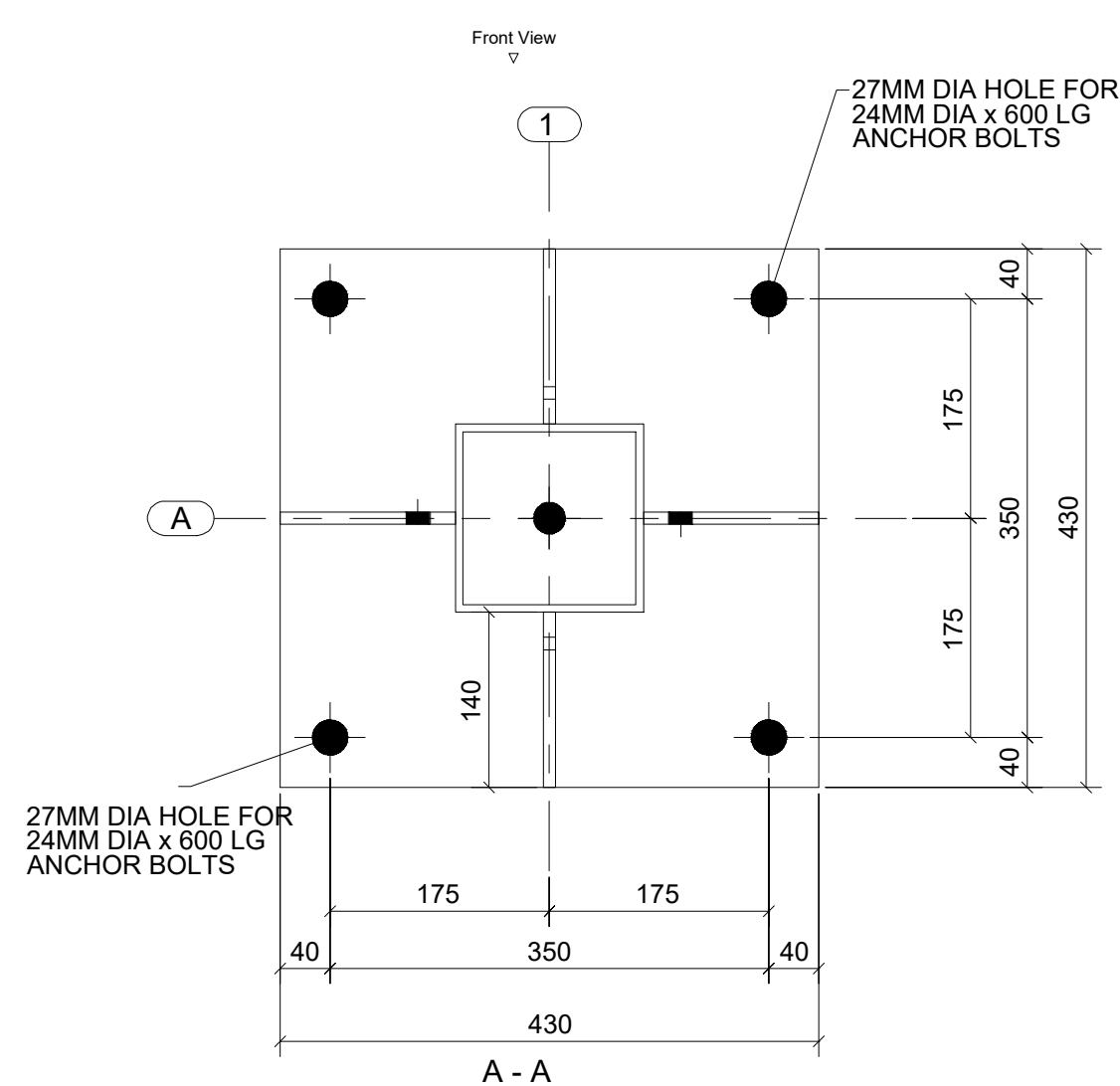
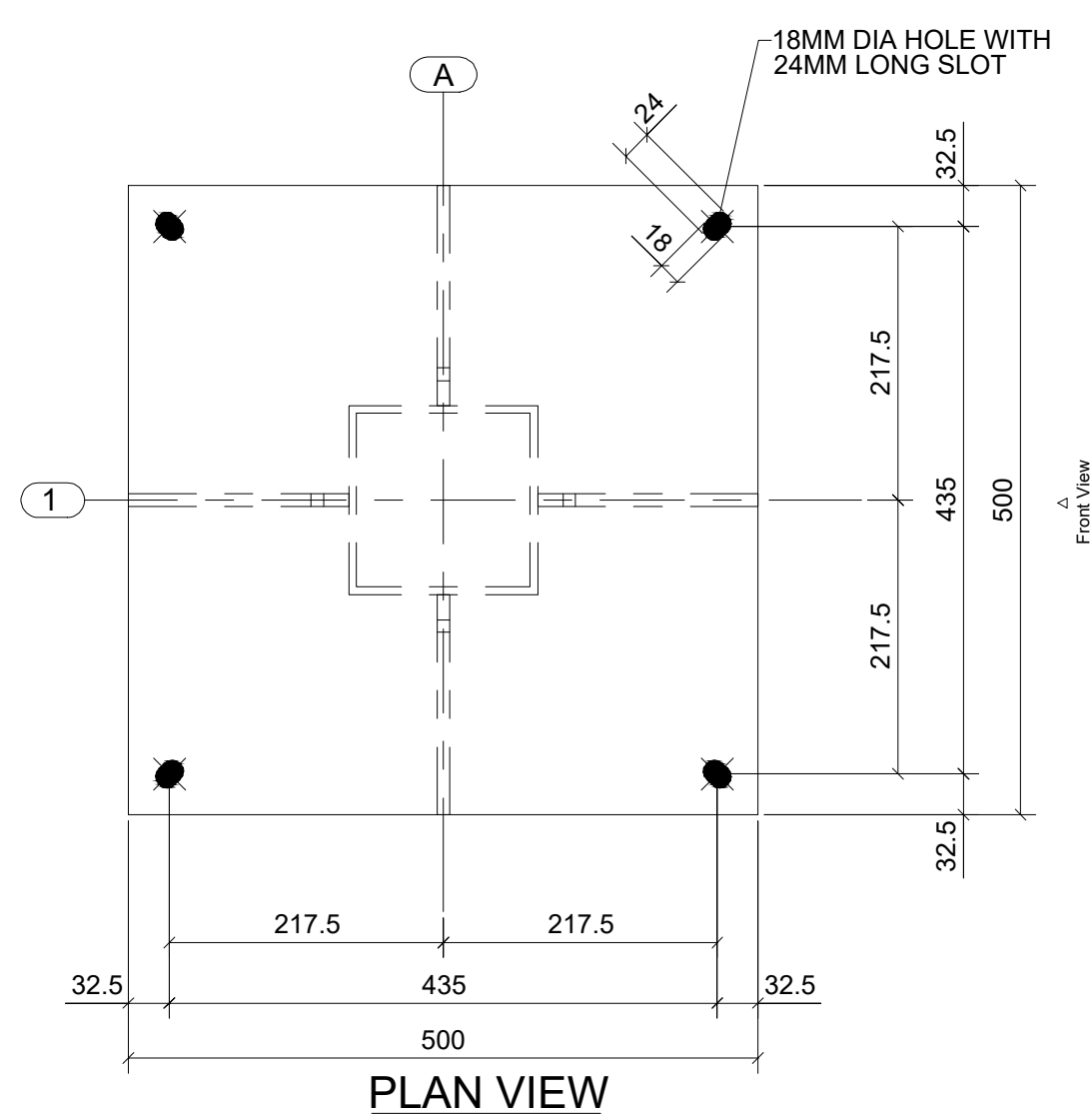
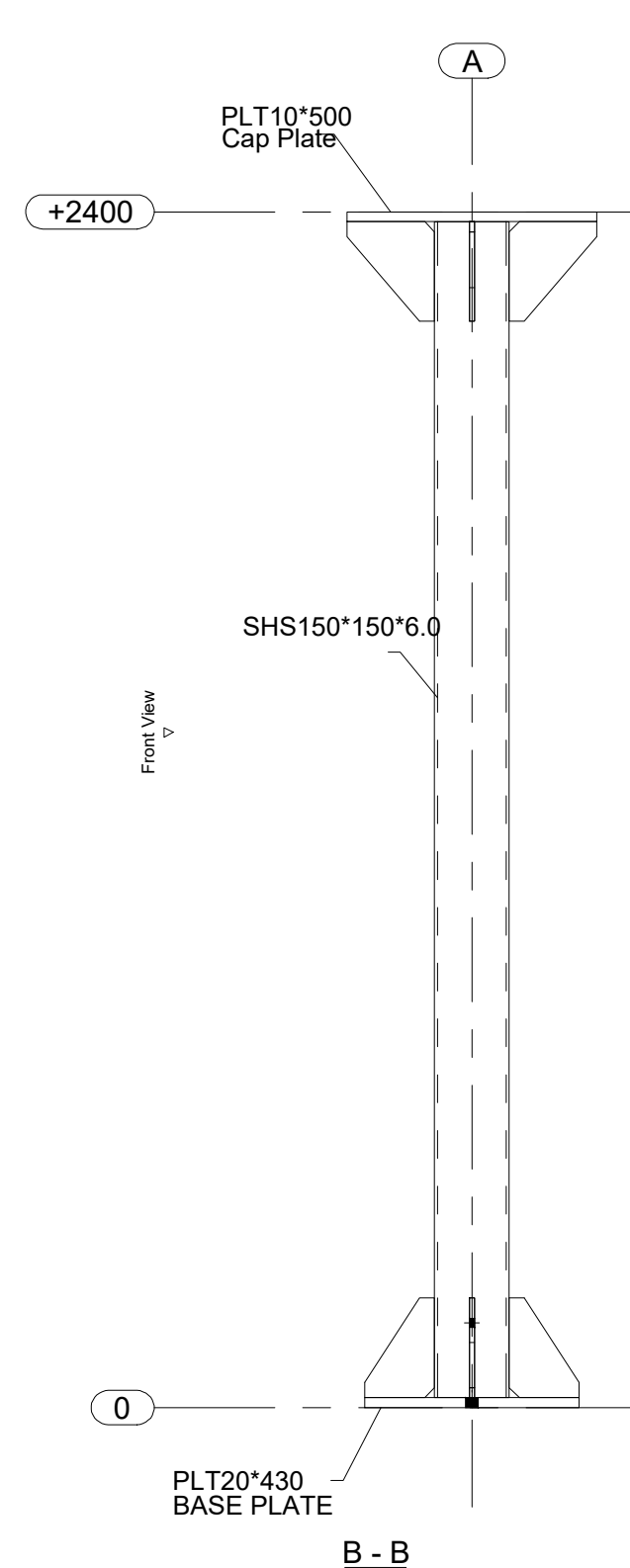
**CML-STRUCTURE 006/025**


Drawn	D.WAITHERA	Scale(s)	AS INDICATED
Designed	D.WAITHERA	Date	APRIL, 2025
Checked	R.NYATUNDO	Date	APRIL, 2025
Approved	ENG. D.M.WAMBUGU	Date	APRIL, 2025

ISSUE DATE	APRIL, 2025
JOB No.	

### STEEL STRUCTURE WITH 11KV A/B SW, TAPLIN ISOLATOR & AUTO RECLOSURE





<b>NOTES</b>			
1. All dimensions are in millimeters, unless otherwise stated.			
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3. This drawing must be read in conjunction with relevant Architectural drawings.			
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<b>REVISIONS</b>			
Date	Suffix	Descriptions	Issue
<div style="margin-bottom: 10px;"><b><u>CLIENT</u></b></div>  <div style="font-size: 1.2em; font-weight: bold; color: #0056b3; margin-top: 5px;">Kenya Power</div>			
<div style="margin-bottom: 10px;"><b><u>PROJECT</u></b></div> <div style="font-weight: bold; font-size: 1.1em;">PROPOSED CIVIL WORKS &amp; STEEL STRUCTURES FOR CHEMILIL 33/11KV SUB-STATION</div>			
<b>TENDER DRAWINGS</b>			
<b>NCT STRUCTURE</b>			
<b>CML-STRUCTURE 007/025</b>			
<b>Drawn</b>	D.WAITHERA	<b>Scale(s)</b>	<b>AS INDICATED</b>
<b>Designed</b>	D.WAITHERA	<b>Date</b>	APRIL, 2025
<b>Checked</b>	R.NYATUNDO	<b>Date</b>	APRIL, 2025
<b>Approved</b>	ENG. D.M.WAMBUGU	<b>Date</b>	APRIL, 2025
<b>ISSUE DATE</b>		APRIL, 2025	
<b>JOB No.</b>			