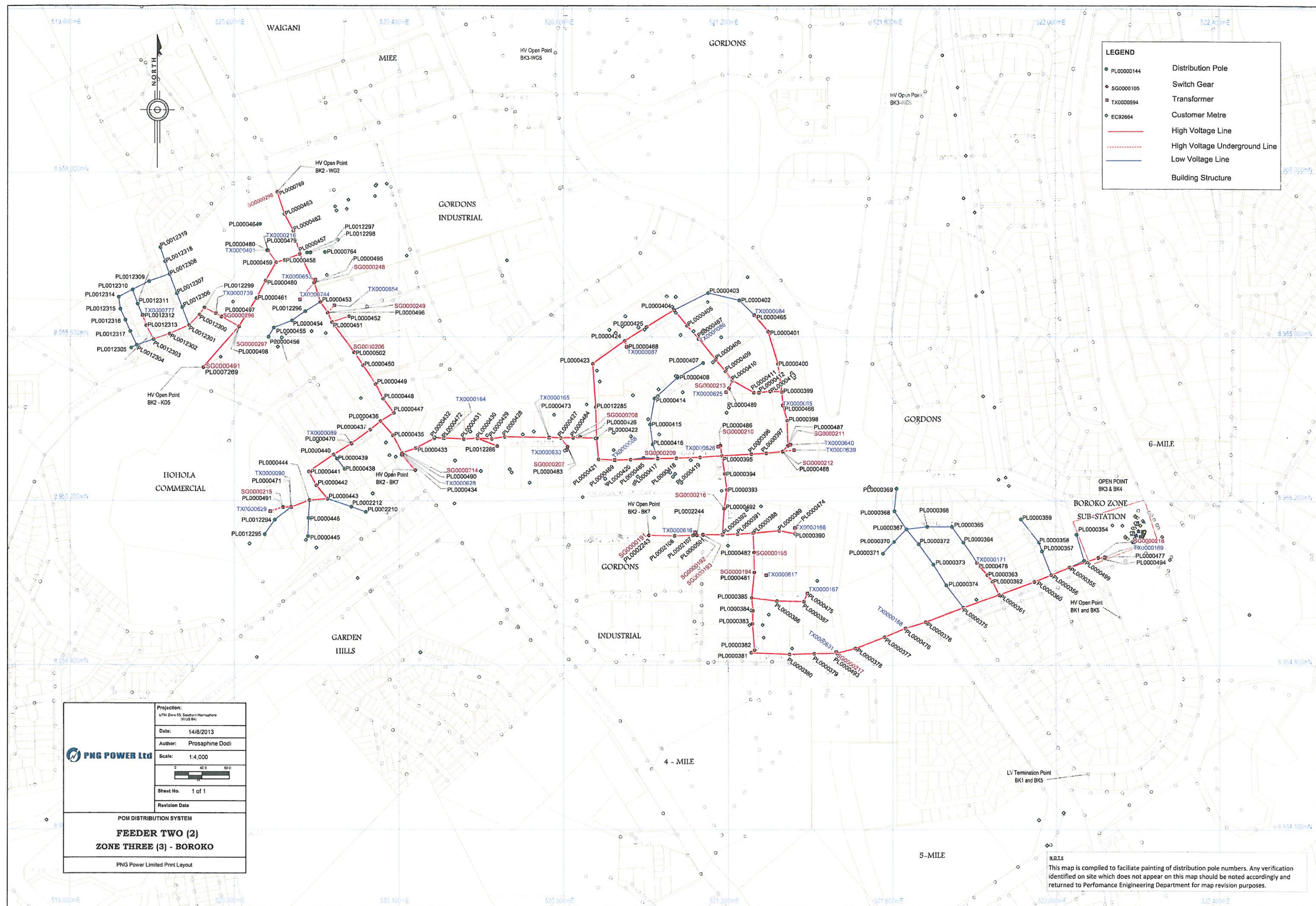






Projection:
UTM Zone 55, Southern Hemisphere
(11Q UTM)

Date:
14/8/2013

Author:
Prosaphine Dodi

Scale:
1:4,000



Sheet No. 1 of 1

Revision Date

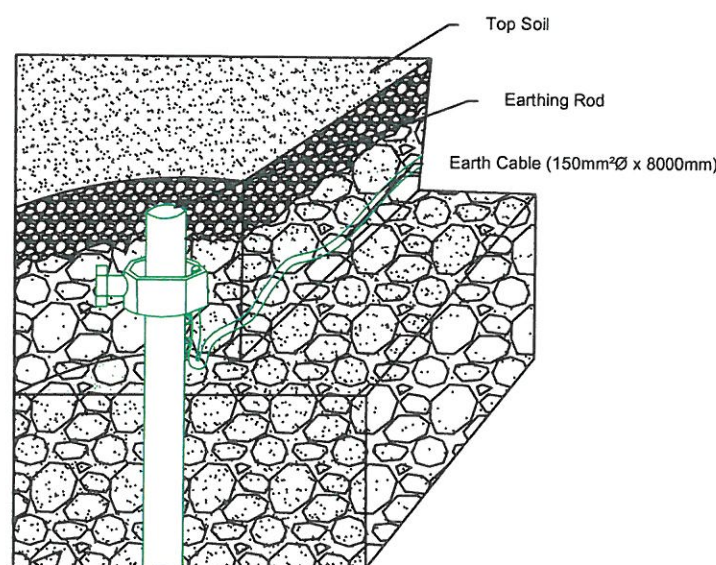
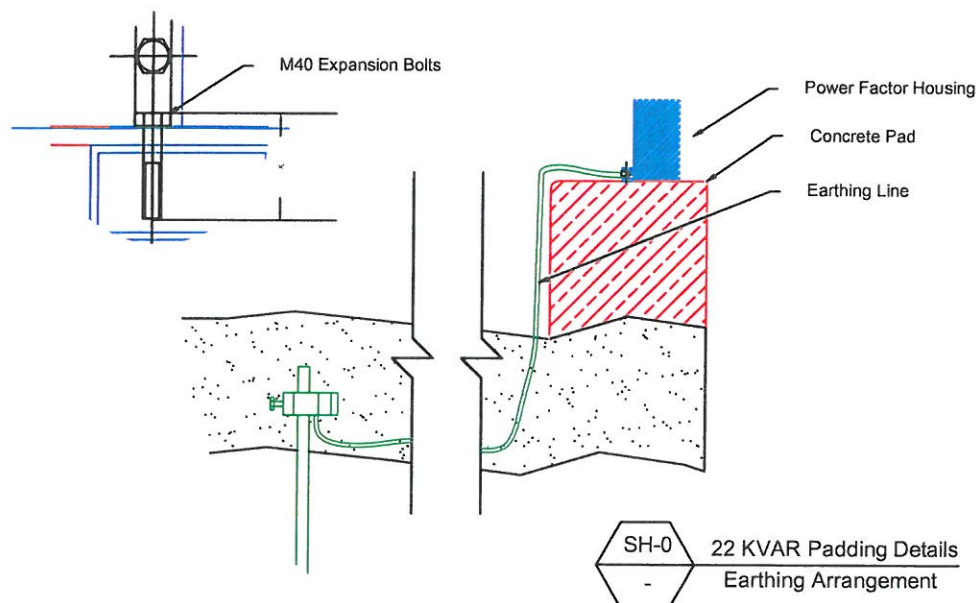
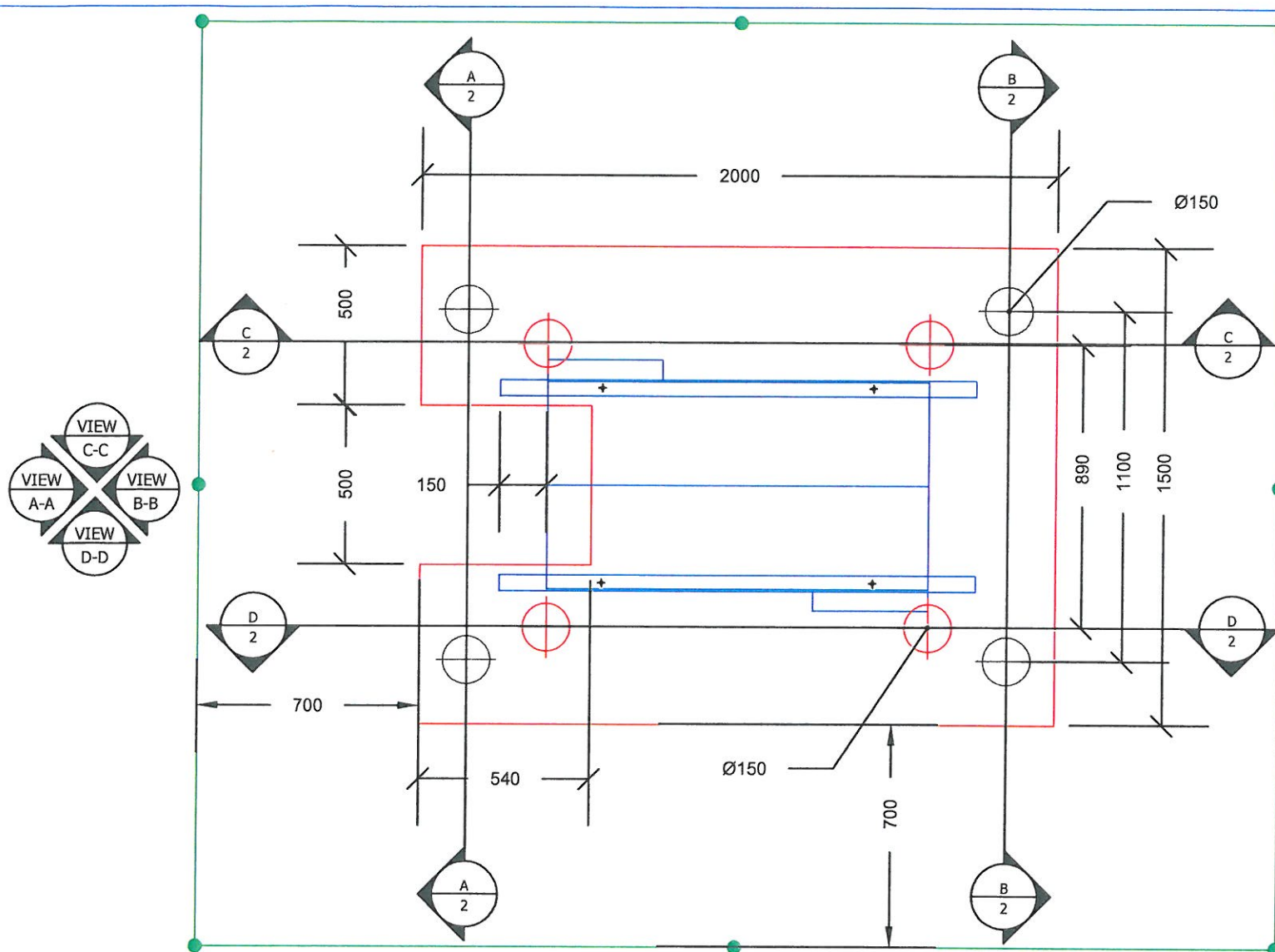
POM DISTRIBUTION SYSTEM

FEEDER TWO (2)

ZONE THREE (3) - BOROKO

PNG Power Limited Print Layout

NOTE
This map is compiled to facilitate painting of distribution pole numbers. Any verification identified on site which does not appear on this map should be noted accordingly and returned to Performance Engineering Department for map revision purposes.



Clearing and Grubbing

1. Clear, grub and strip the top soil to the pad foundation area as well as the entire fencing parameter of the VAR Compensators as directed by the PPL Project Engineer.
2. Dispose cleared and grubbed waste materials at designated locations identified by PPL Project Coordinator.

Earth Works

1. Excavate the pad foundation area to a depth of 300mm below ground level and compact the foundation.
2. Supply and backfill excavated foundation area to a 200mm depth thickness with suitable qualified sub-grade coronas materials. Compact in layers as directed by PPL Project Coordinator to maximum dry density of 98%.
3. Supply and place 600mm thickness of suitable qualified sub-base coronas materials. Compact in layers as directed by the PPL Project Coordinator to 98% maximum density.
4. Supply and place 200mm depth of suitably qualified base-course coronas materials. Compact in layers as directed by the PPL Project Coordinator to a 100% maximum dry density.

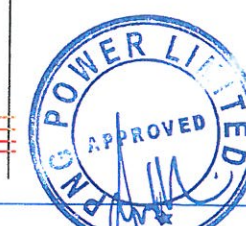
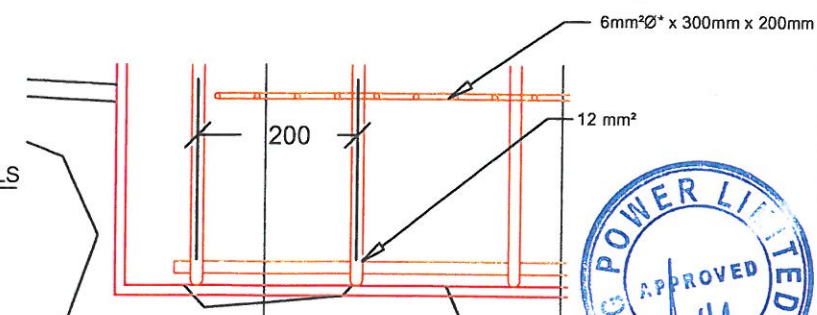
Concrete Foundation Works

1. Top soil to be excavated for foundation laying of mesh wire so as to sustain exerting force on VAR unit padding and also durability based on Weibull Distribution analysis on frequent quake areas, where necessary.
2. Supply and place S26 mesh wires. Mesh Wire to be 6mm²Ø and 300mm x 200mm.
3. Supply and place 12mm reo-bars centrally in concrete fixtures.
4. Piers to be approximately 300mm²Ø and 800mm in length. The length of the pier is subjected to change depending on the geotechnical findings of the soil on site and as directed by the PPL Project Coordinator. Foundation piers may be omitted if the concrete foundation is situated on concrete or bedrock. This is subjected to the recommendation of the PPL Project Coordinator.
5. Square bars 50mm x 25mm x 2.0 mm to be partly sub-merged on upper foundation for mounting purpose.
6. Alterations to the shape of the Compensator's Unit Pad dimensions must be strictly marginalized.
7. Concrete padding must be done in one pour.
8. For Non Domestic areas, concrete padding are to reach High Strenght concrete of 30MPa.
9. Earthing shall be done as per the drawings and under the supervision of the PPL Project Coordinator.

Construction Notes

1. Job Safety Analysis is to be carried out prior to any layout of excavation or pouring of concrete.
2. All excavation and foundation construction is to be carried out in the precence of a PPL Project Coordinator, who will be an observer to critical details that may interfere with construction.
3. Construct, where necessary and as directed by the PPL Project Coordinator, drainage run-offs along the perimeter of the fencing.
4. Piers to be fully reinforced as approved by PPL Project Coordinator before concrete be poured.
5. All foundation dimensioning is subjected to the size of the equipment as approved by the PPL Project Coordinator.
6. Mesh wire must be laid out in accordance to the drawings and under the supervision of the PPL Project Coordinator.
7. All works should be done in reference to PNGs 1002 1982
8. Mesh Wire refers to construction steel rods used in constructing of cemented structure that gives reinforcing strenght to the concrete upon construction.
9. Non Domestic refers to undomesticated dwellings that are used for buisness purposes or service providers easments.

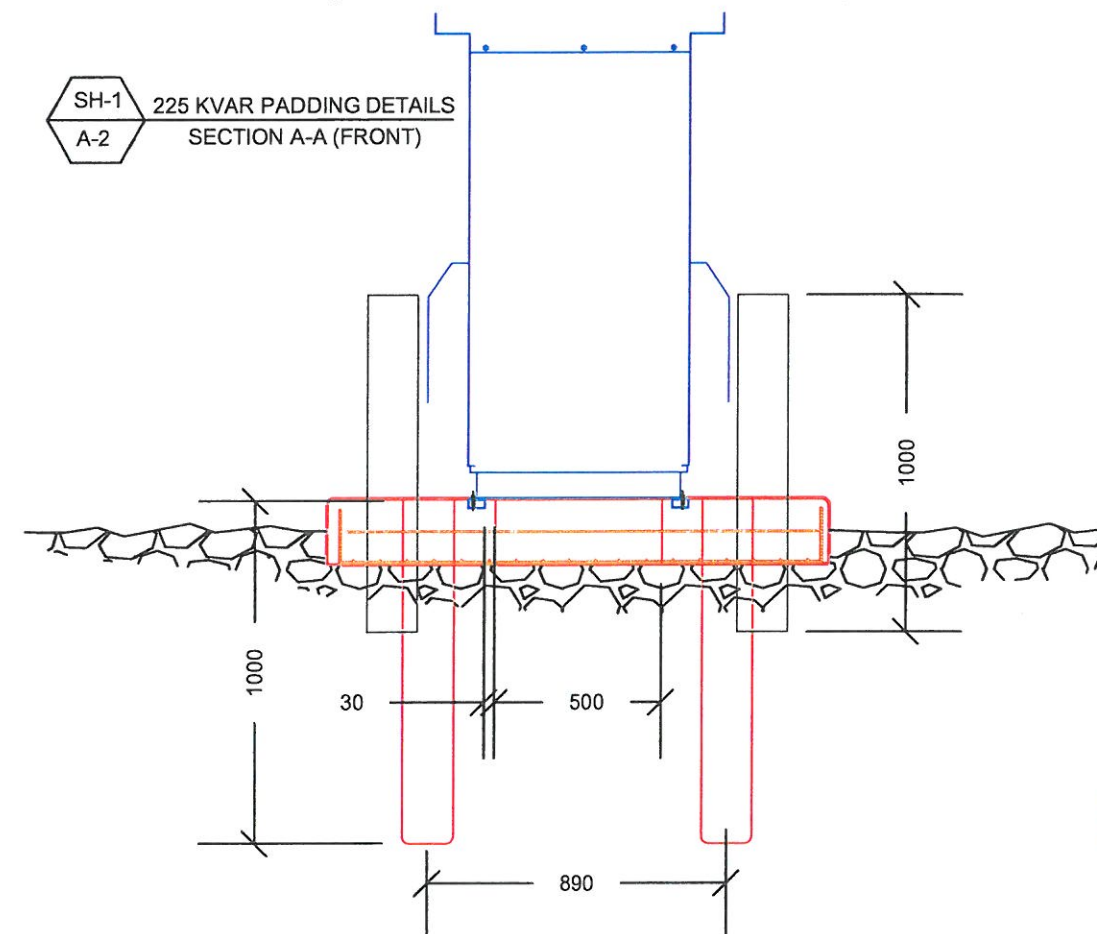
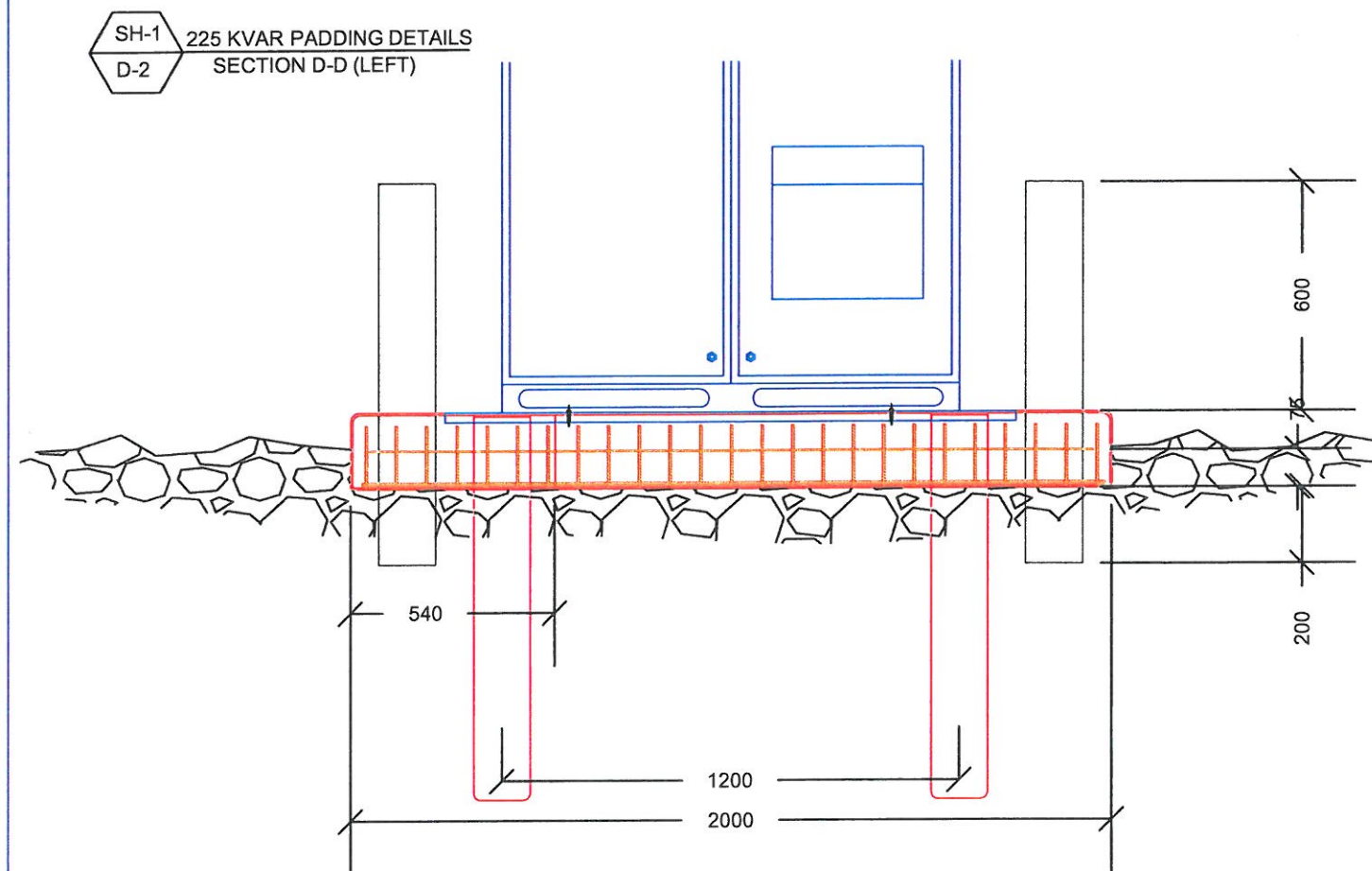
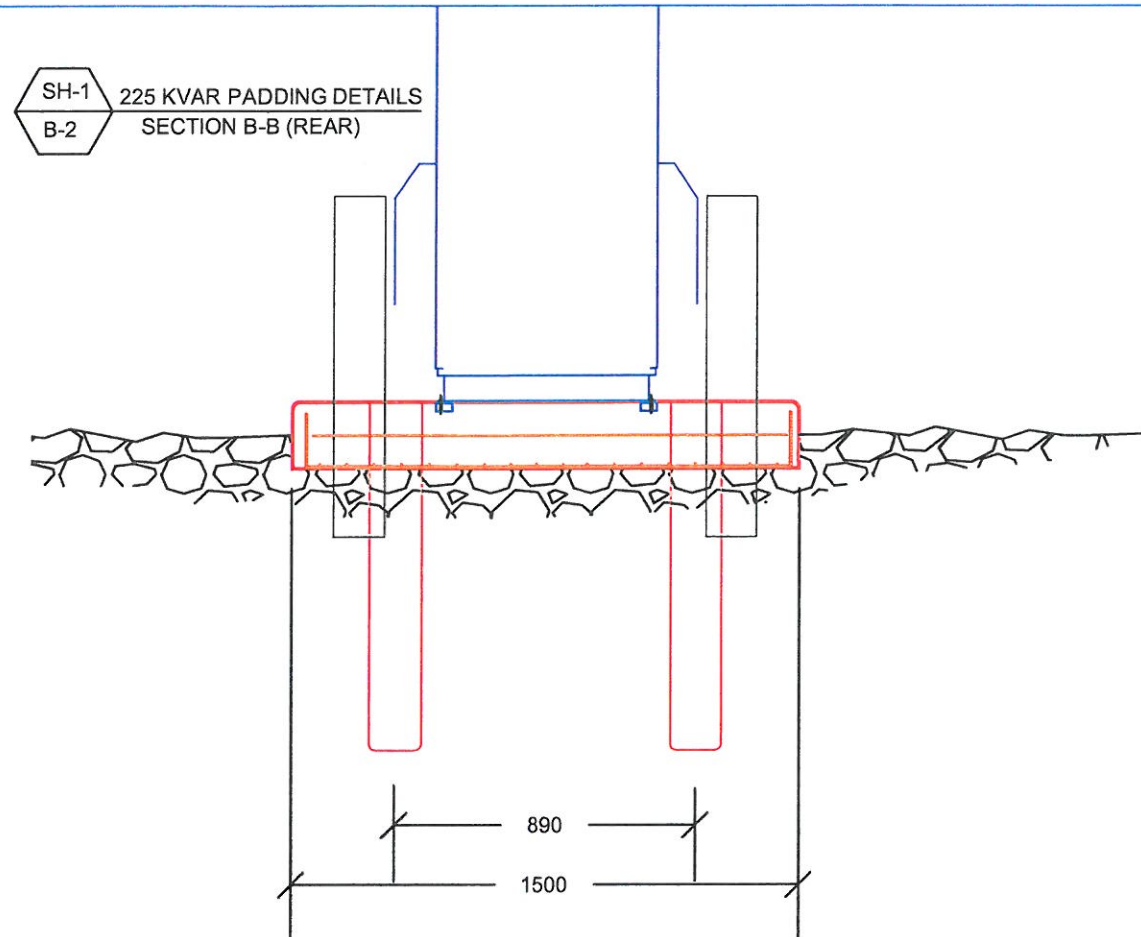
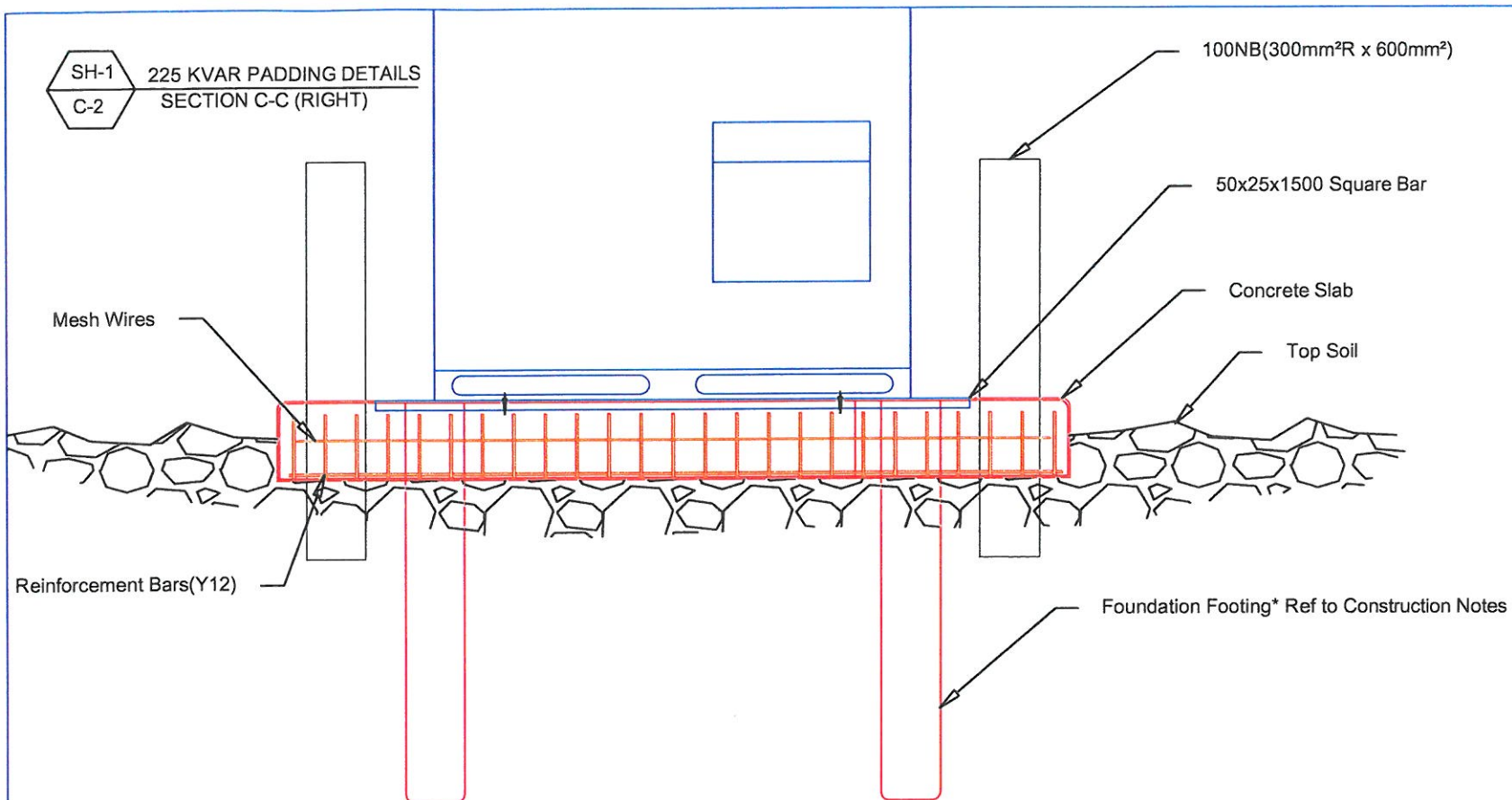
SH-2 225 KVAR PADDING DETAILS
C-2 Reinforcement Steel



CAD Filename	Rev.	Revision	By	Chk'd	Date
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Date Plotted:	10/2016	Finish:			
Scale:	1:4	Tolerance:			
Drafting Standard:	AS 1100	Linear:			
		Angular:			

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Drawn	FW	Location	Design Engineering-PCBU
Designed	FW	Title	225 kVar Power Correction System Padding Details.
Checked	AN	A3	PNG Power Standard Pad Construction
Endorsed	GP	Number	SS 4/3-1
Approved	PR	Revision	Sheet 1 OF 2



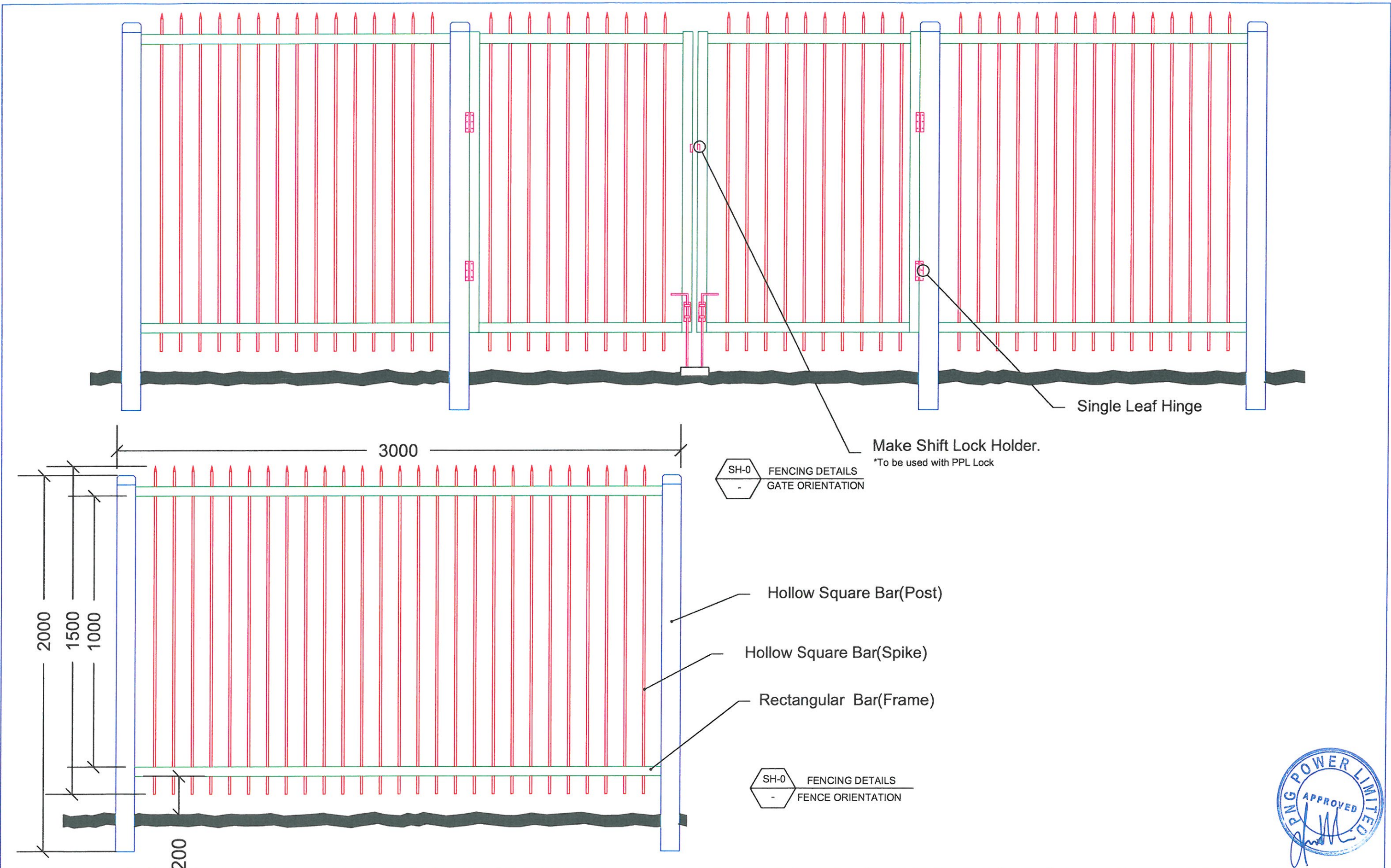
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Date Drawn:	10/2016					
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Scale:	1:4					
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Drawn	FW	Location	Design Engineering-PCBU
Designed	FW	Title	225 kVar Power Correction System
Checked	AN	A3	PNG Power Standard Pad Construction
Endorsed	GP	Number	SS 4/3-1
Approved	PR	Revision	Sheet 2 OF 2

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Date Drawn:	10/2016	Material:						Designed	FW	Title	225 kVar Power Correction System	
Date Plotted:	10/2016	Tolerance:						Checked	AN	A3	Fencing Details	
Scale:	1:4	Linear:						Endorsed	GP	Number	SS 4/3-2	Sheet 1 OF 2
Drafting Standard:	AS 1100	Angular:						Approved	PR	Revision		

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Diagram 1

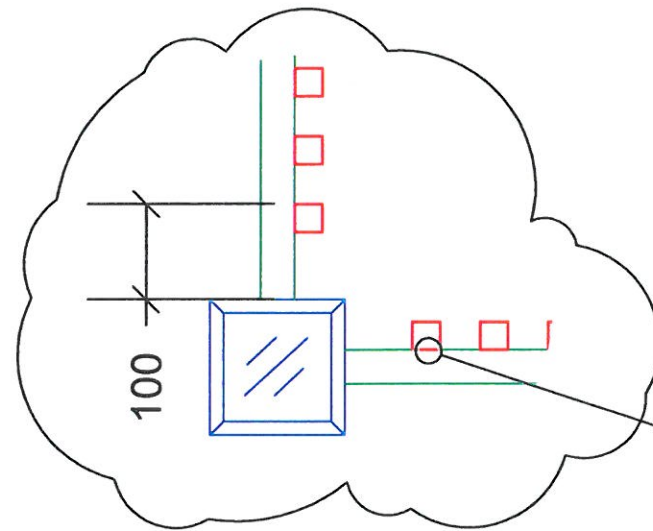


Fig 1-1. Build up joint securing Hollow Square Bar to a Hollow Rectangular Bar.

SH-1
FENCING DETAILS
DOUBLE LEAF GATE (Top View)

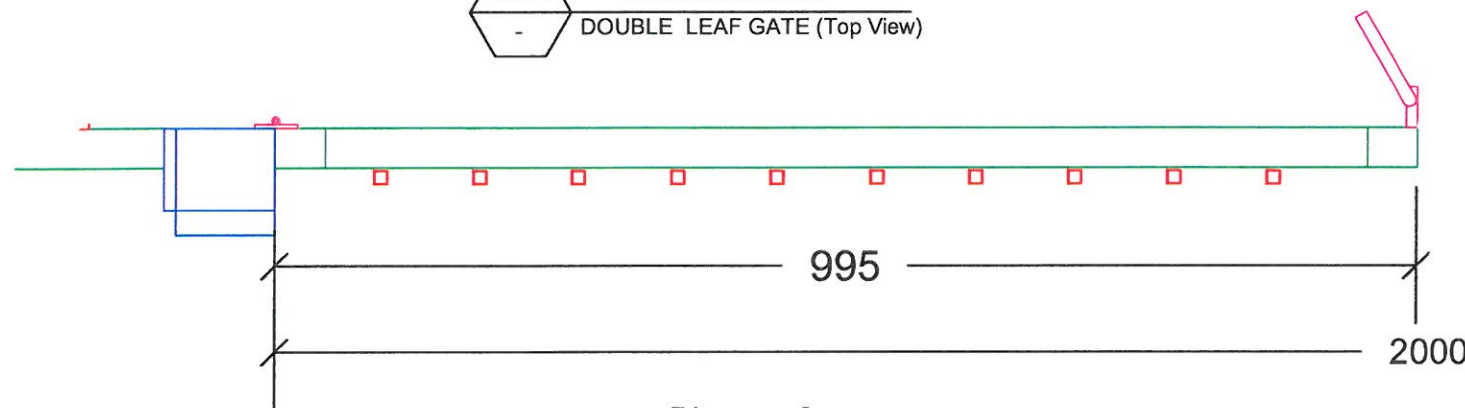


Diagram 2

Fig.1 -2. Edge Joint securing a Hollow Rectangular steel Bar and a Hollow Square Bar.

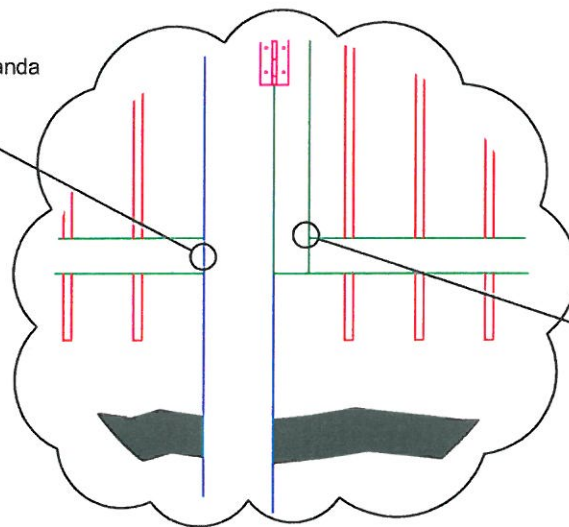
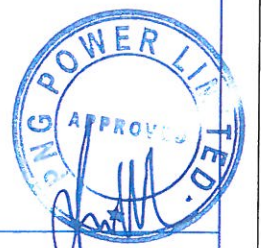
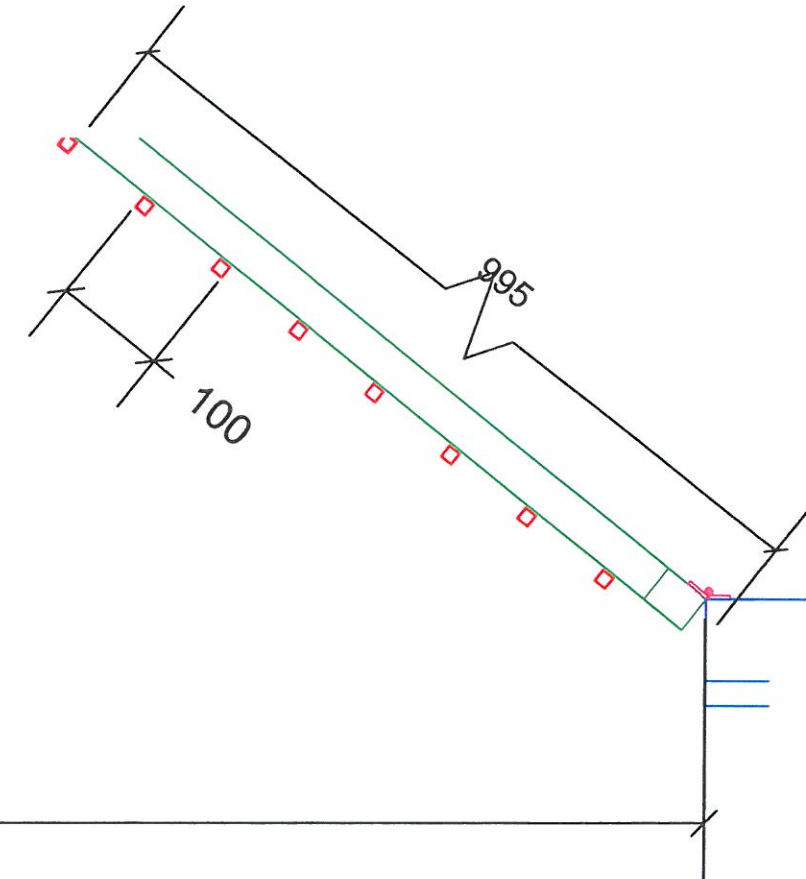


Fig.1 -2. Fillet Weld securing a Hollow Rectangular steel Bar.

Galvanised Steel Fencing Fabrication.

Type	L x W x H	Spike	Frame	Post
Square Bar (Hollow)	1500 x 12 x 12	✓	-	-
Square Bar (Hollow)	2000 x 100 x 100	-	-	✓
Rectangular Bar (Flat/Hollow)	3000 x 20 x 2.5	-	✓	-

*Note- All Dimensions in Millimeters (mm).



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