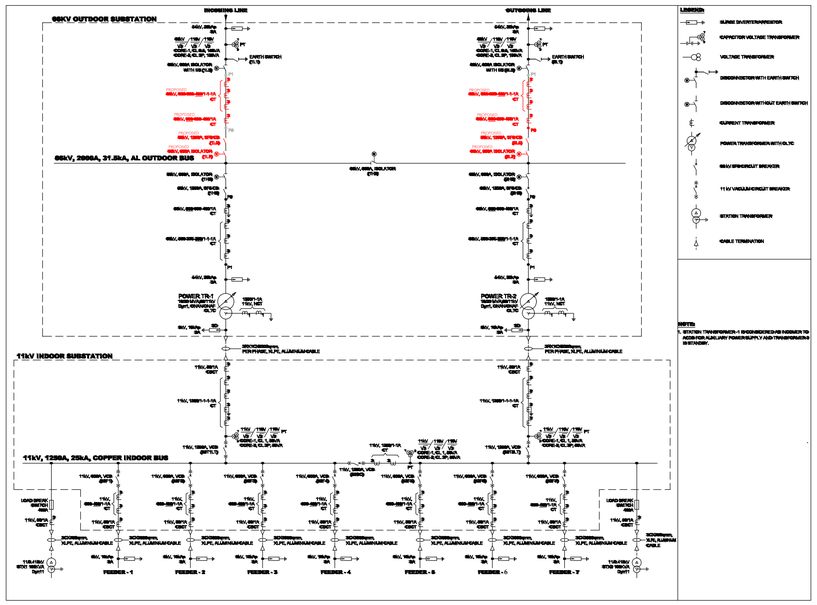
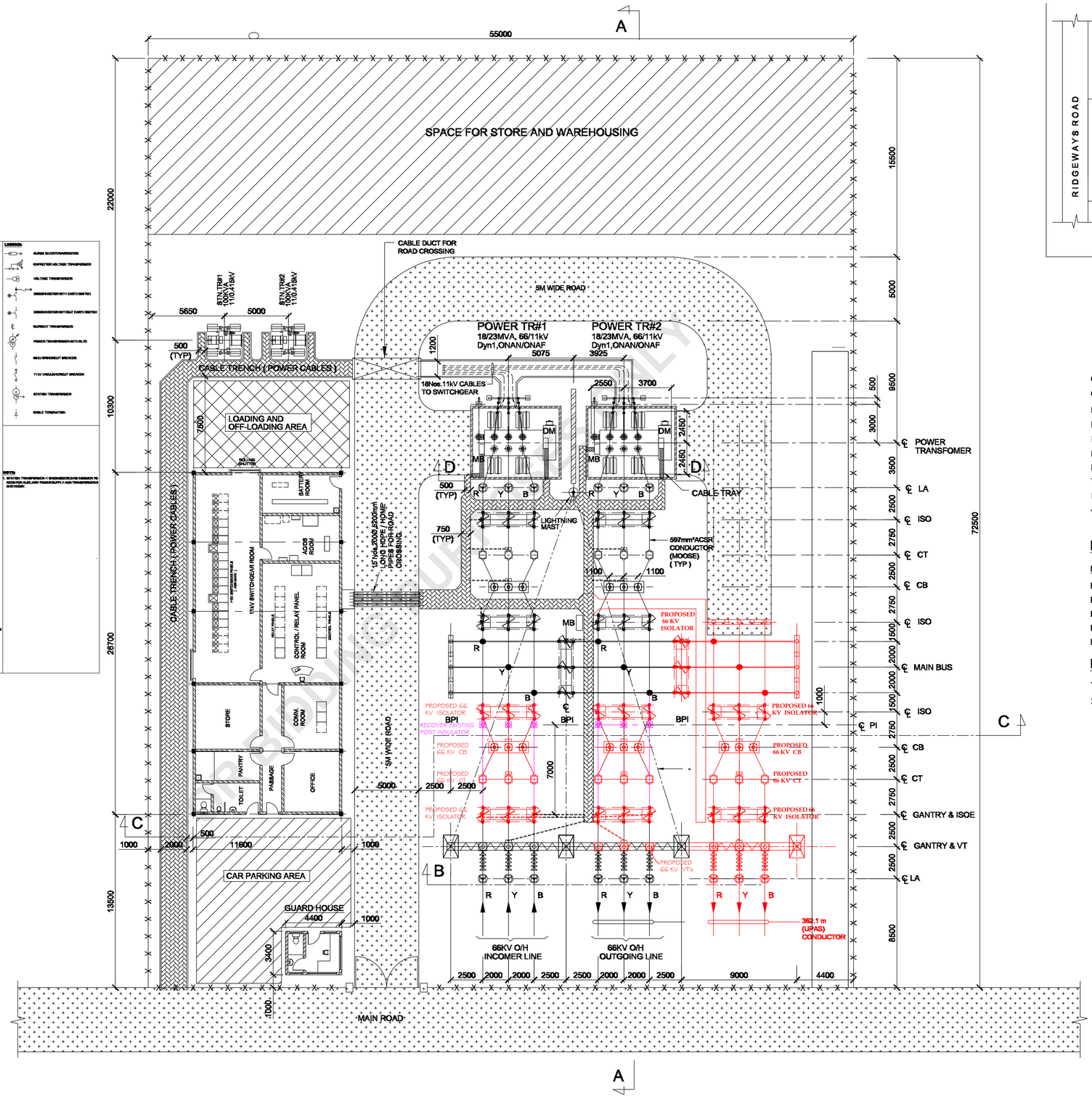
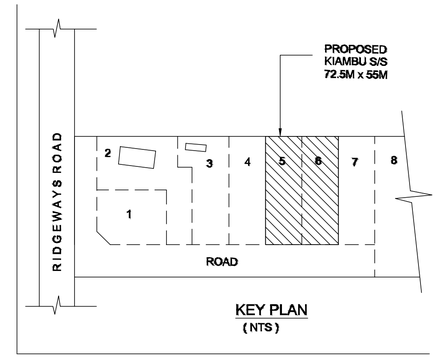






KEY PLAN
(NTS)

LEGEND:

CB	CIRCUIT BREAKER
CT	CURRENT TRANSFORMER
ISO	DISCONNECTING SWITCH
ISOE	DISCONNECTING SWITCH WITH EARTH SWITCH
BPI	BUS POST INSULATOR
LA	SURGE ARRESTER
MB	MARSHALLING BOX
VT	VOLTAGE TRANSFORMER
PI	POST INSULATOR
-----	PVC PIPE

NOTES :

MINIMUM SUBSTATION CLEARANCE FOR 66kV :

PHASE TO EARTH	700mm
PHASE TO PHASE	790mm
HEIGHT TO LIVE PARTS ABOVE GROUND	3500mm
HORIZONTAL SAFETY CLEARANACE	2100mm
LOWEST PART OF INSULATOR ABOVE GROUND	2500mm

REFERENCE DRAWING:

1. 66/11kV SUBSTATION - SECTIONS KPD030-K/A-E1-002
2. CONTROL ROOM EQUIPMENT LAYOUT....KPD030-K/A-E1-005

KEY

- EXISTING WORK
- PROPOSED WORK
- WORKS TO BE RECOVERED

D.K.M

	NAME	DATE	SIGN
APPROVED			
CHECKED ENGINEER I/C	SHEILA		
CHECKED CIVIL ENG.	MWANIKI		
CHECKED PRIN. D'MAN	L. OBARO		
DRAWN	J.M.Kahare	10 JUNE,2013	J.M.Kahare
SURVEYED			
TRACED			

REF	REVISION	DATE	SIGN	CHECKED	DATE
01	Additional 66kV Bay	NOV.2026	DENNIS	A.AKUTE	

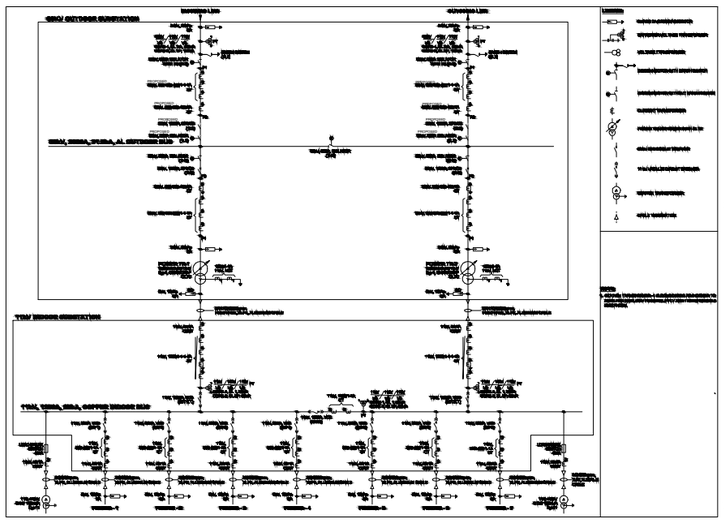
GENERAL ARRANGEMENT OF 66/11KV RIDGEWAY SUBSTATION - NAIROBI

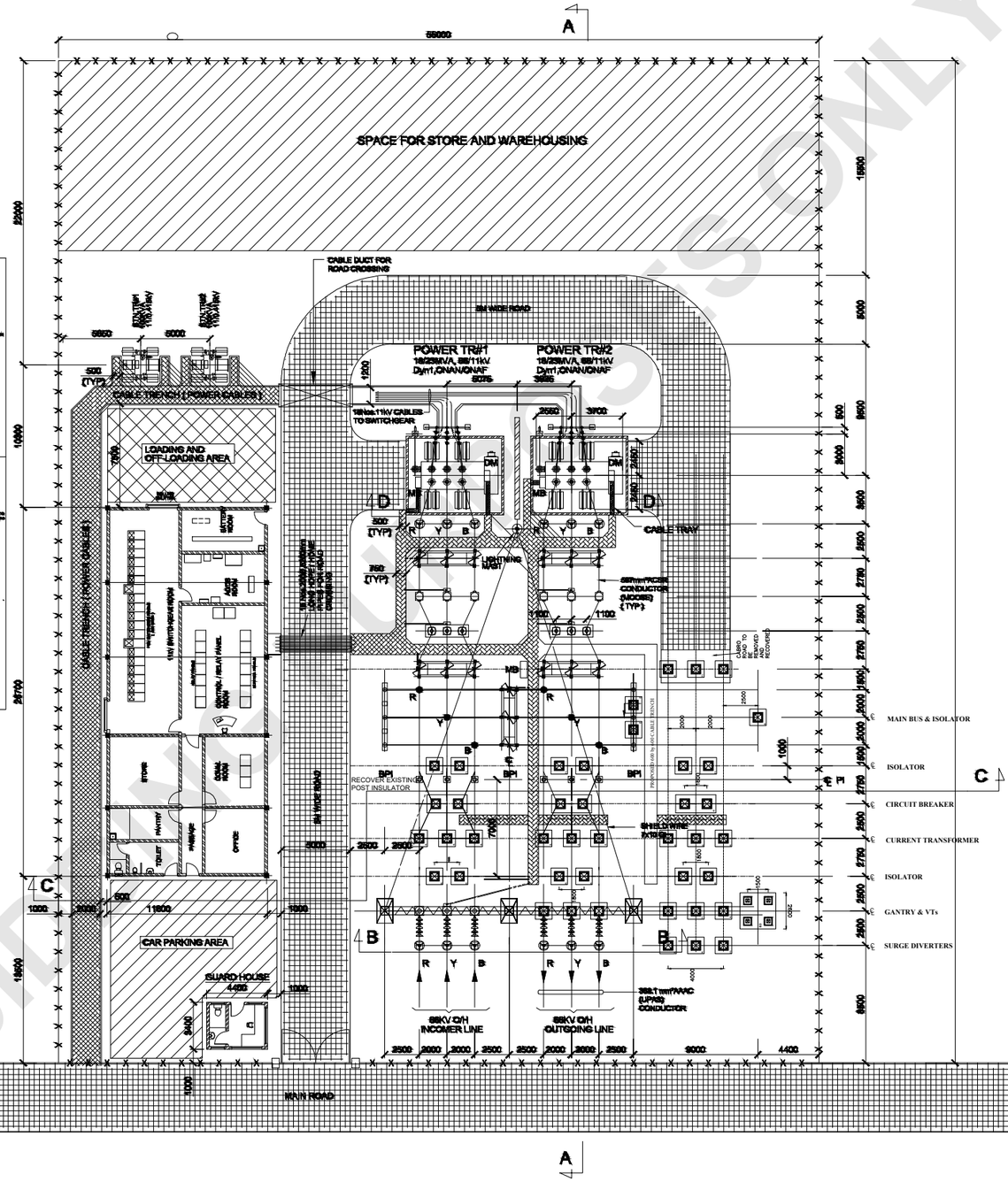
SCALE : 1 : 100

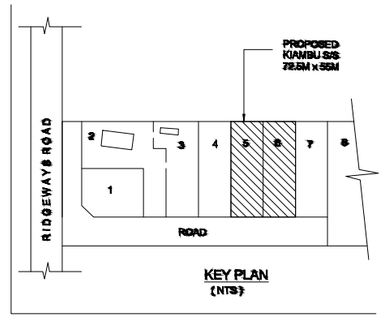
SHEET 1A

K.P. & L. Co. LTD.

SK. No. 11108







KEY PLAN
(NTS)

LEGEND:

CB	CIRCUIT BREAKER
CT	CURRENT TRANSFORMER
ISO	DISCONNECTING SWITCH
ISOE	DISCONNECTING SWITCH WITH EARTH SWITCH
BPI	BUS POST INSULATOR
LA	SURGE ARRESTER
MB	MARSHALLING BOX
VT	VOLTAGE TRANSFORMER
PI	POST INSULATOR
——-	PVC PIPE

NOTES :

MINIMUM SUBSTATION CLEARANCE FOR 66kV :

PHASE TO EARTH..... 700mm
PHASE TO PHASE..... 750mm
HEIGHT TO LIVE PARTS ABOVE GROUND..... 3900mm
HORIZONTAL SAFETY CLEARANACE..... 2100mm
LOWEST PART OF INSULATOR ABOVE GROUND..... 3500mm

REFERENCE DRAWING:

1. 66/11kV SUBSTATION - SECTIONS KPD030-KIA-E1-002
2. CONTROL ROOM EQUIPMENT LAYOUT....KPD030-KIA-E1-005

KEY

- EXISTING WORK
- PROPOSED WORK
- WORKS TO BE RECOVERED
- EXISTING FOUNDATION

D.K.M

	NAME	DATE	SIGN
APPROVED			
CHECKED ENGINEER I/C	SHEILA		
CHECKED CIVIL ENG.	MWANIKI		
CHECKED PRIN. D'MAN	L. OBARO		
DRAWN	J.M.Kahare	10 JUNE.2013	J.M.Kahare
SURVEYED			
TRACED			

REF	REVISION	DATE	SIGN	CHECKED	DATE
01	Additional 66kv bay and missing components	NOV 2026	DENNIS	A.AKUTE	

CIVIL DRAWINGS OF 66/11KV RIDGEWAY SUBSTATION NAIROBI

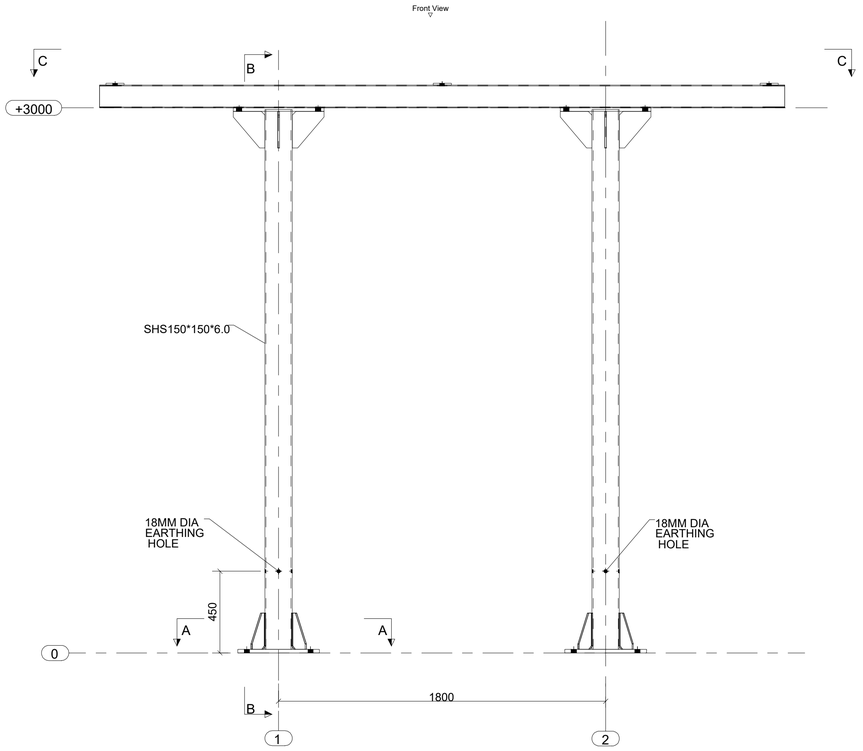
SCALE : 1 : 100

SHEET 1

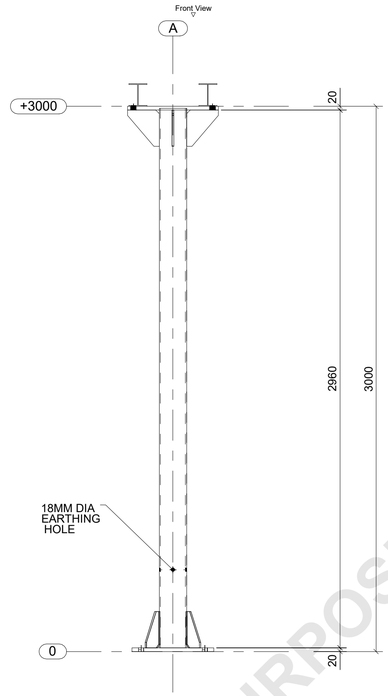
K.P. & L. Co. LTD.

SK. No. 11108

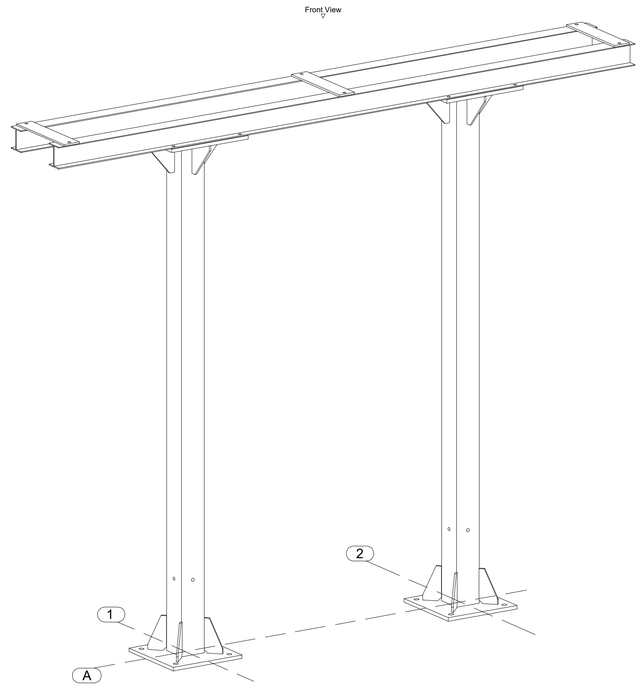
FOR BIDDING PURPOSES ONLY



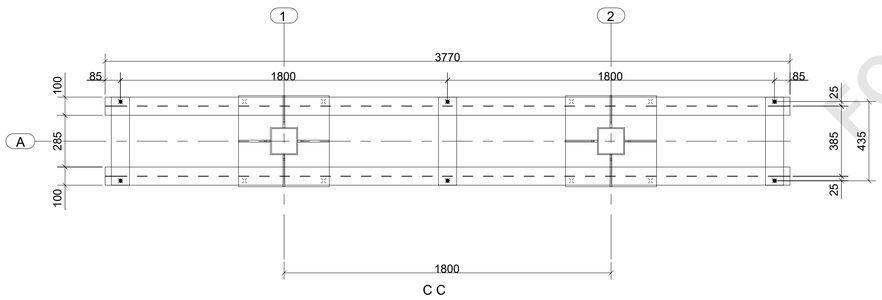
Grid A

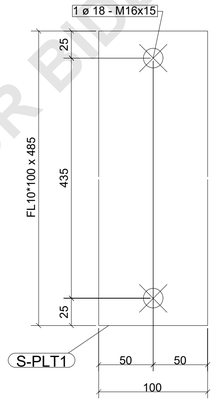


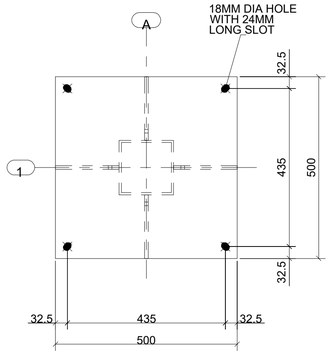
B - B



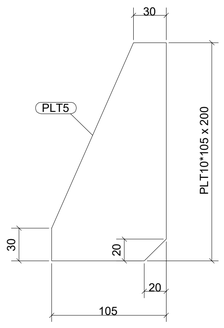
3D VIEW 1



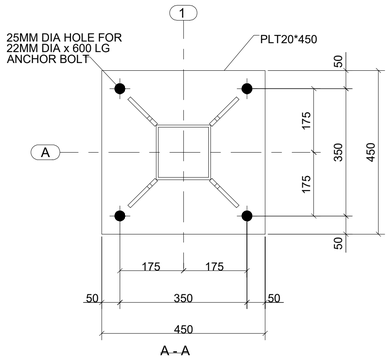




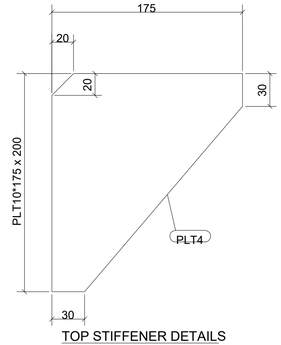
CAP PLATE DETAILS



BOTTOM STIFFENER DETAILS



A - A



TOP STIFFENER DETAILS

66/11KV ISOLATOR STRUCTURE - 3M HIGH

FOR BIDDING PURPOSES ONLY

CAD REF. VARIOUS STRUCTURES FOR KPLC–REV 2 – WITH LATEST GANTRY

REVISION		DATE
A		
B		
C		
D		
E		
F		

CONSULTANT.

KENYA POWER.

CLIENT

BOMAS OF KENYA.

JOB:

SUPPLY OF VARIOUS STRUCTURES

SITE:

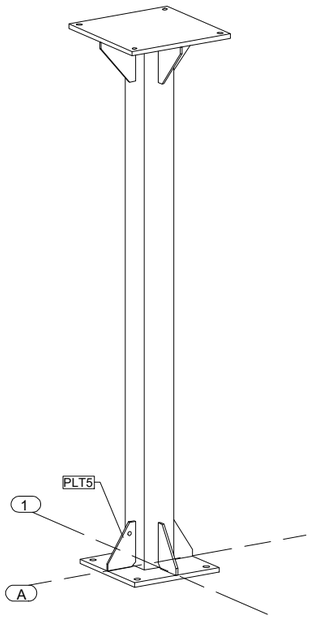
BOMAS 66/11kV SUBSTATION.

DRAWING TITLE:

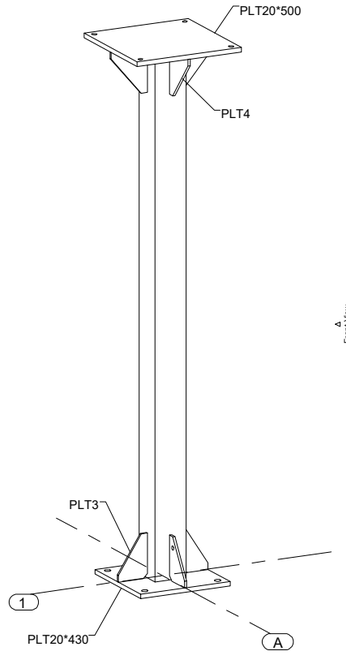
GENERAL ARRANGEMENT OF STEELWORK FOR 66/11kV- ISOLATOR STRUCTURE – 3M HIGH

JOB No .	Scale N.T.S	M.L. No.
Drawn: D.K.M	Checked: ENG.D.W.M	Date: 11/26

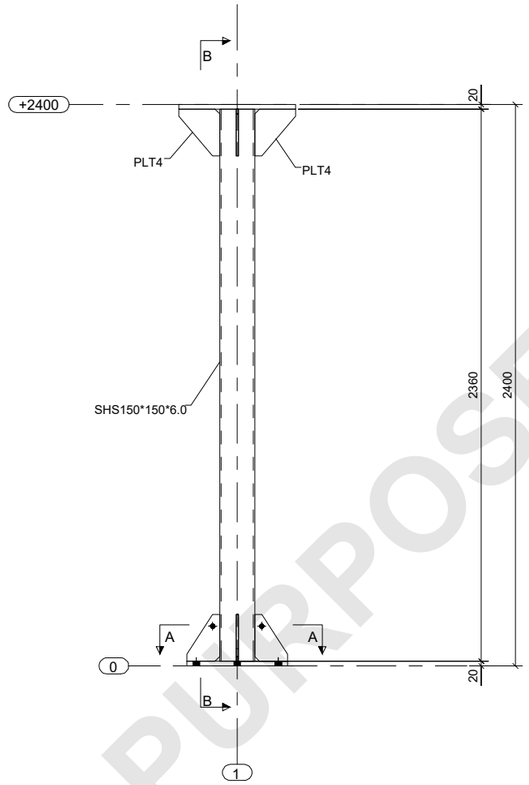
Drg No DWG/ISO/15 REV. 0



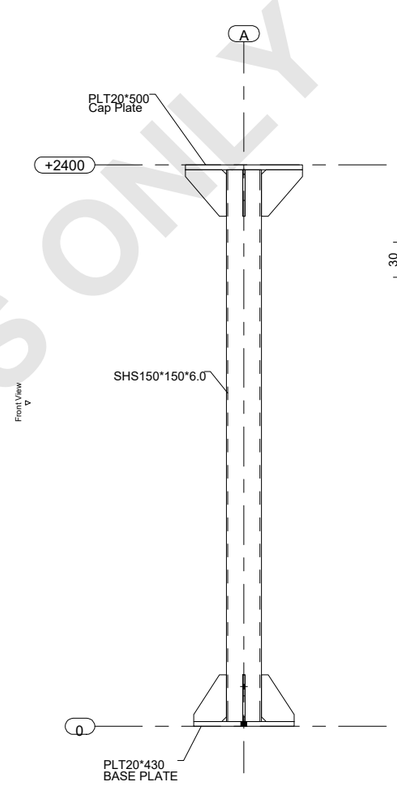
3D VIEW 1



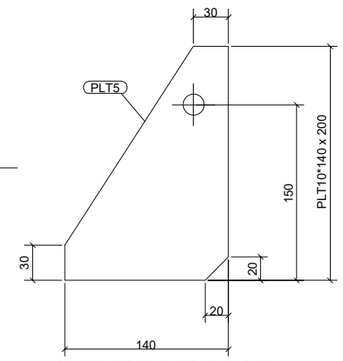
3D VIEW 2



Grid A



B - B



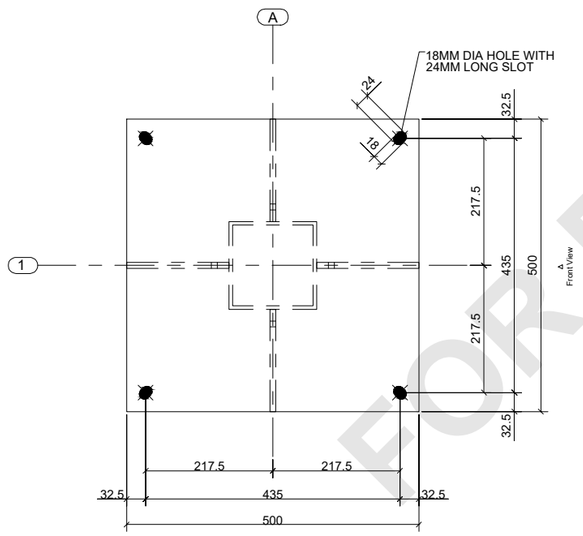
STIFFENER MARKED PLT5 DETAILS

FOR BIDDING PURPOSES ONLY

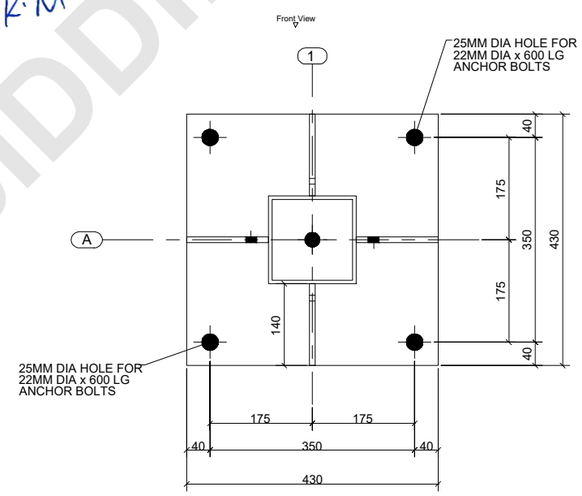
CAD REF. VARIOUS STRUCTURES FOR KPLC-REV 2 – WITH LATEST GANTRY

66/11KV CTs & VTs STRUCTURE

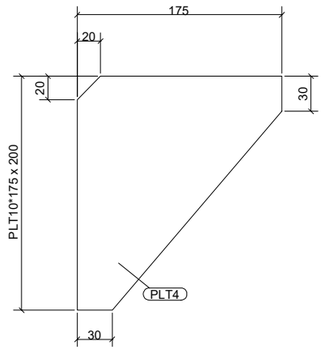
D.K.M



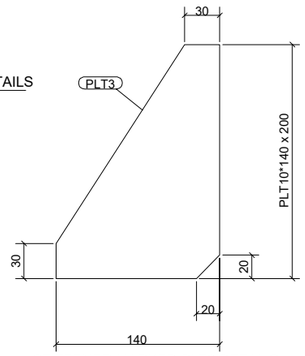
PLAN VIEW



A - A



TOP STIFFENER DETAILS



STIFFENER MARKED PLT3 DETAILS

REVISION		DATE
A		
B		
C		
D		
E		
F		
G		

CONSULTANT:
KENYA POWER.

CLIENT:

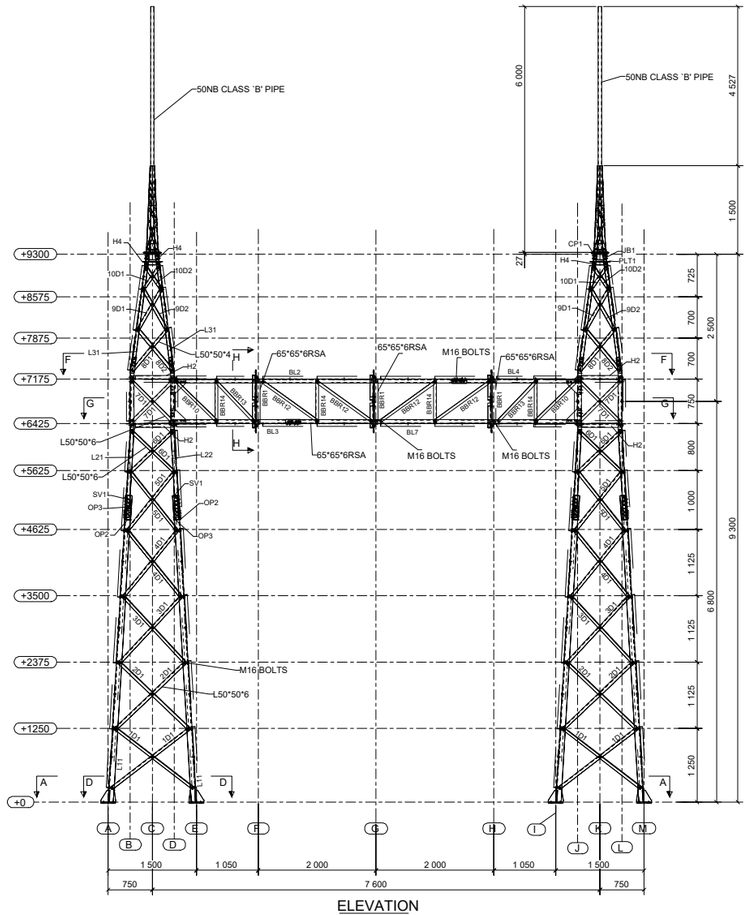
JOB:
SUPPLY OF VARIOUS STRUCTURES

SITE:
RIDGEWAYS 66/11kV SUBSTATION.

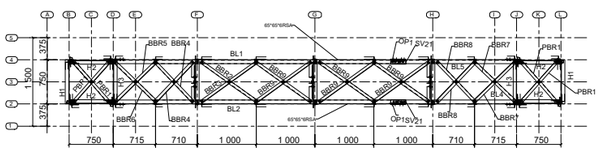
DRAWING TITLE:
GENERAL ARRANGEMENT OF STEELWORK FOR 66/11kV- CTs & VTs STRUCTURE

JOB No .	Scale N.T.S	M.L. No.
Drawn: DENNIS	Checked: ENG.D.W.M.	Date: 11/26

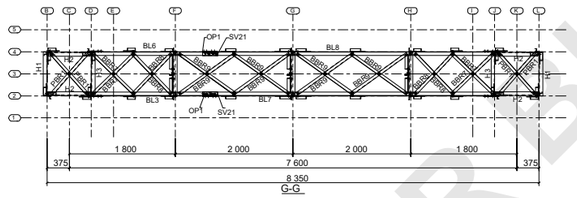
Drg No DWG/CTs-VTs/003 REV. 0



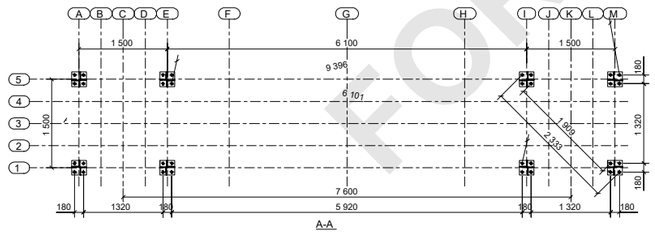
ELEVATION



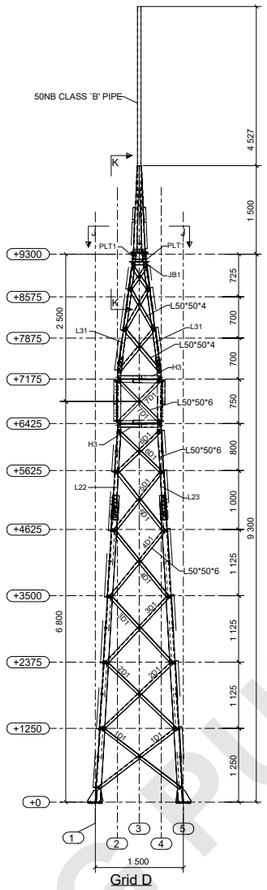
F-F



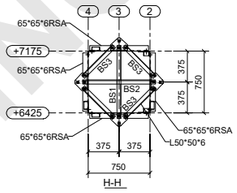
G-G



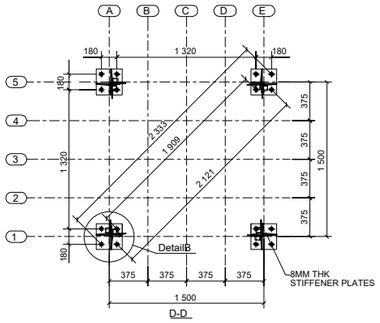
A-A



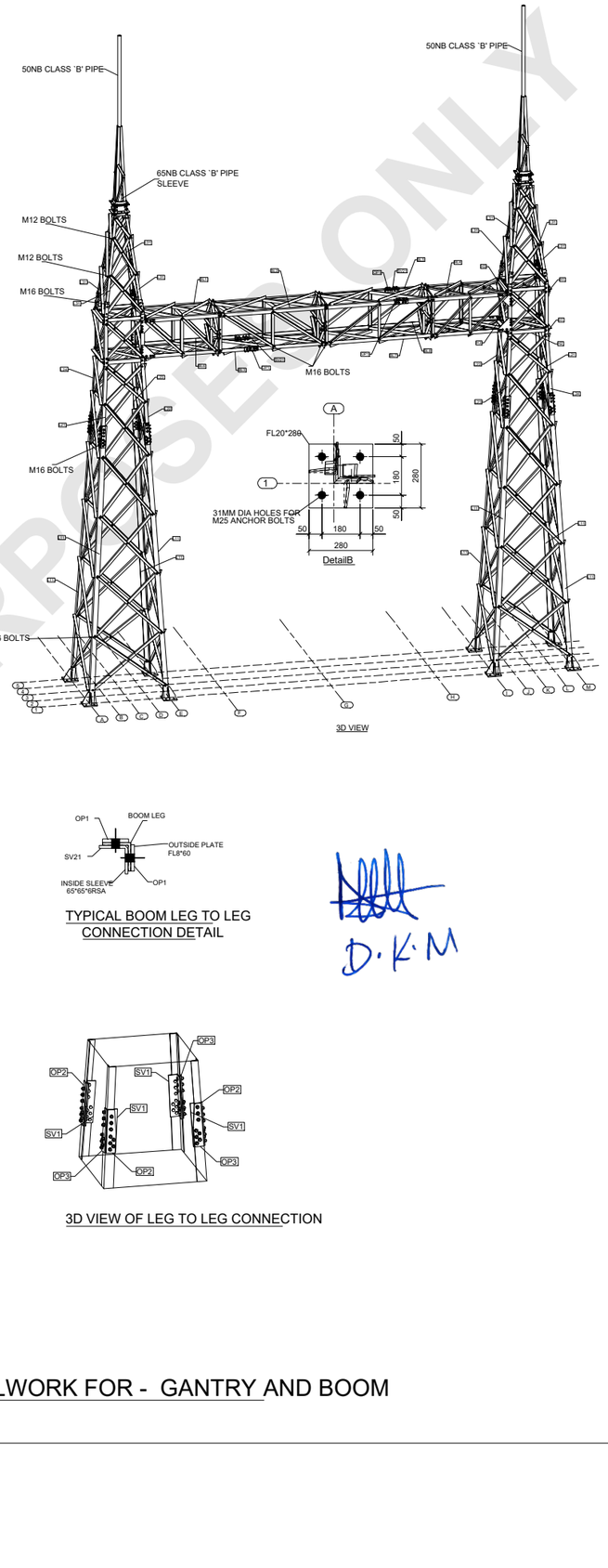
Grid D



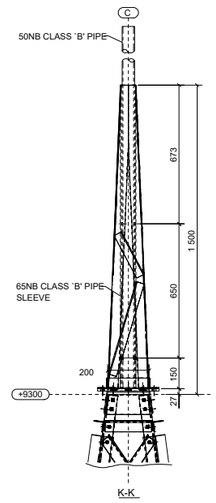
H-H



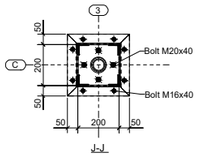
D-D



3D VIEW



K-K



J-J

TYPICAL BOOM LEG TO LEG CONNECTION DETAIL

3D VIEW OF LEG TO LEG CONNECTION

GENERAL ARRANGEMENT OF STEELWORK FOR - GANTRY AND BOOM

REVISION		DATE
A		
B		
C		

CONSULTANT.
KENYA POWER.

CLIENT:
KPLC

JOB:
SUPPLY OF VARIOUS STRUCTURES

SITE:
RIDGEWAYS 66/11kV
SUBSTATION.

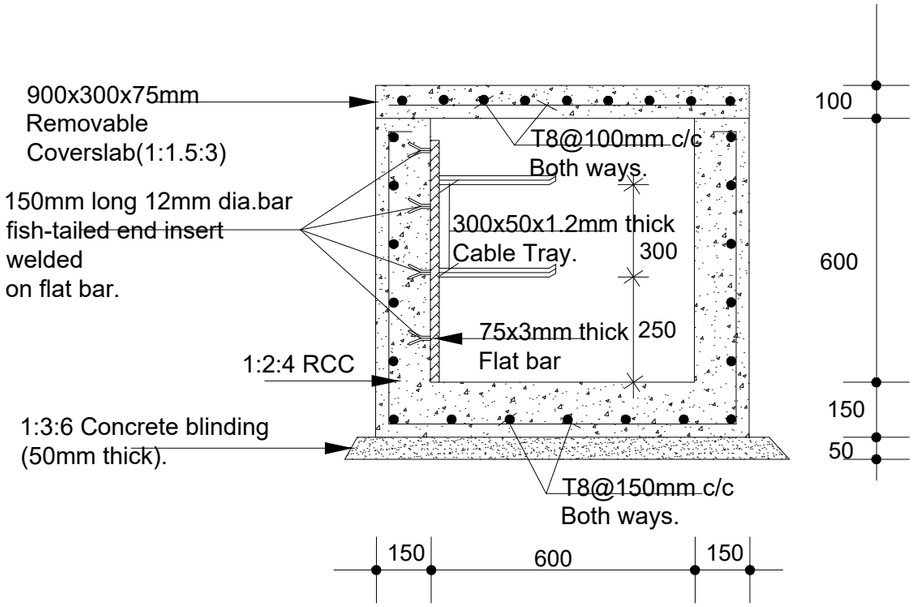
DRAWING TITLE:
GENERAL ARRANGEMENT OF STEELWORK FOR GANTRY AND BOOM

JOB No .	Scale N.T.S	M.L. No.
Drawn: DENNIS	Checked: ENG.D.W.M	Date: NOV 2026

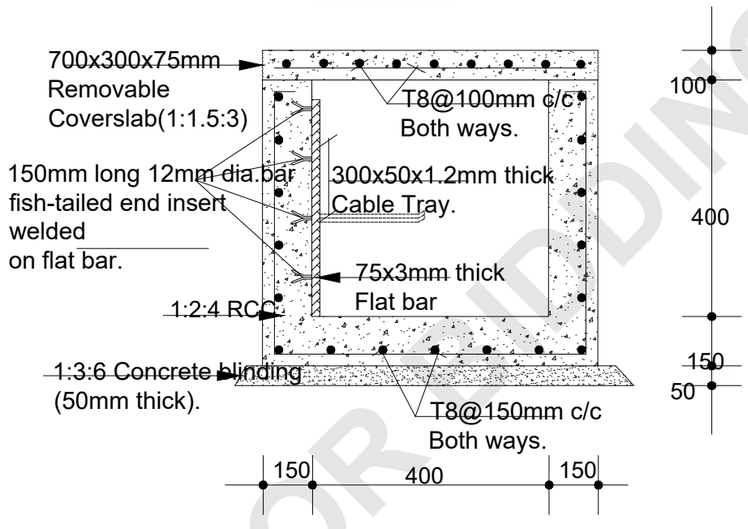
Drg No DWG/GTY/16 REV. 0

FOR BIDDING PURPOSES ONLY

CABLE TRENCH 600MM X 600MM

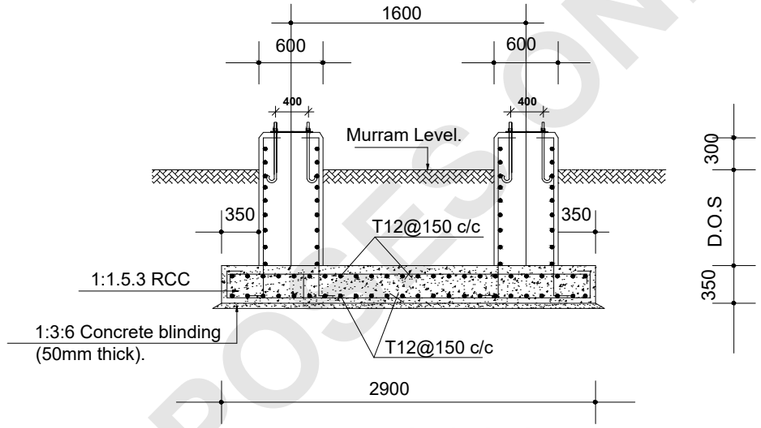


(600x600x150mm) CABLE TRENCHES. ~*SCALE=1:25*



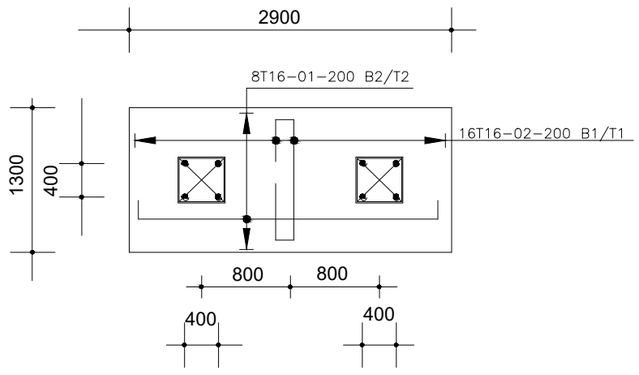
(400x400x150mm) CABLE TRENCHES~*SCALE=1:25*

FOUNDATION TYPE F2



TYPE F2-CB SECTION.

~SCALE=1:25



2900x1300x350mm BASE TYPE F2
SCALE 1:25
CIRCUIT BREAKER

D.K.M

REVISION		DAIE
A		
B		
C		
D		
E		
G		
H		

CONSULTANT:
KENYA POWER.

CLIENT: KPLC

JOB
SUPPLY OF VARIOUS STRUCTURES

SITE
RIDGEWAYS SUBSTATION.

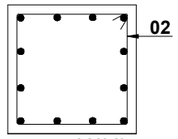
DRAWING TITLE
FOUNDATION AND CABLE TRENCH DETAILS

JOB No .	Scale N.T.S	M.L. No.
Drawn: DENNIS	Checked: ENG.D.W.M.	Date: 11/26

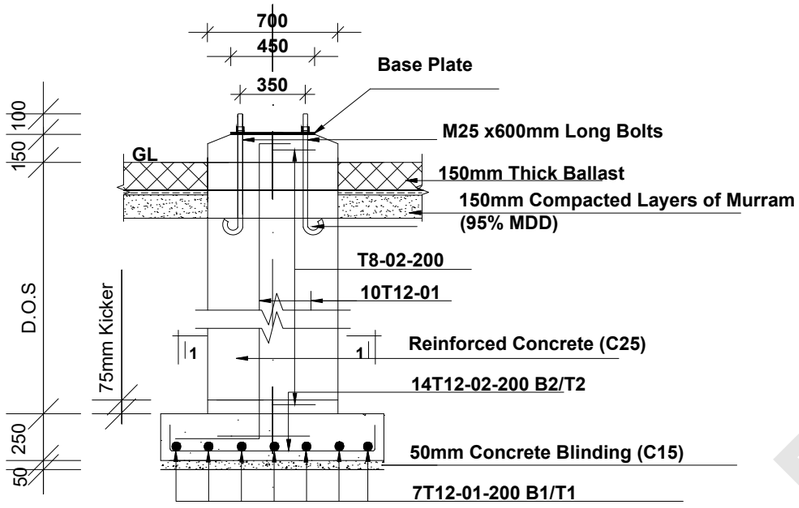
Drg No DWG/ABS/11 REV.

FOR BIDDING PURPOSES ONLY

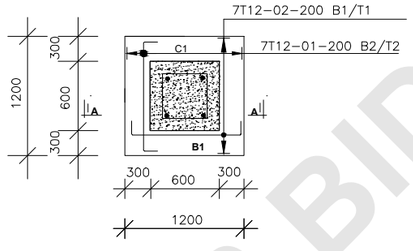
FOUNDATION TYPE F1



SECTION 1–1
SCALE 1:25



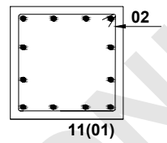
600X600 COLUMN C1 [4 NO. THUS]
SECTION A–A: BASE F1 ELEVATION DETAILS
SCALE 1:30



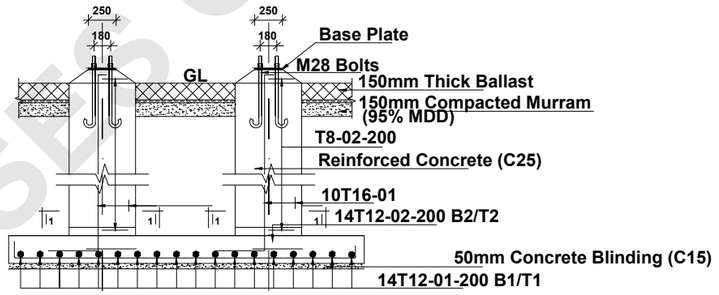
1200x1200x250mm BASE TYPE F1
SCALE 1:25
TYPICAL FOUNDATION DETAIL (A–A)
CURRENT TRANSFORMER & ISOLATORS

D·K·M

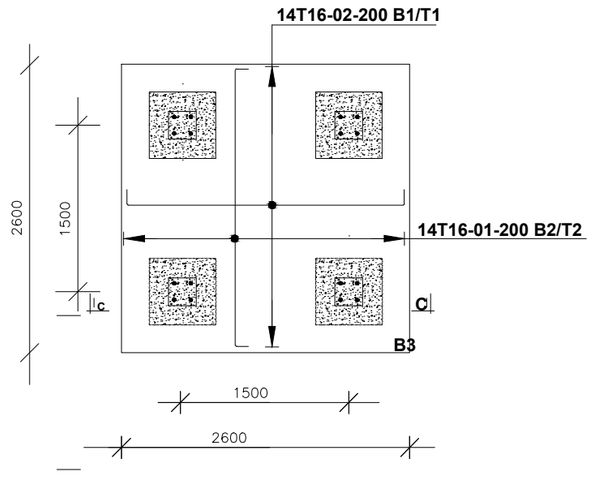
FOUNDATION TYPE F3



SECTION 1–1
SCALE 1:25



500X500 COLUMN C3
SECTION C–C: BASE TYPE B3 ELEVATION DETAILS
SCALE 1:30



2600x2600x250 mm BASE TYPE B3
SCALE 1:25
TYPICAL FOUNDATION DETAIL(C–C)
GANTRY

REVISION		DAIE
A		
B		
C		
D		
E		
G		
H		

CONSULTANT:
KENYA POWER.

CLIENT: KPLC

JOB
SUPPLY OF VARIOUS STRUCTURES

SITE
RIDGEWAYS SUBSTATION.

DRAWING TITLE
FOUNDATION DETAILS

JOB No .	Scale N.T.S	M.L. No.
Drawn: DENNIS	Checked: ENG.D.W.M.	Date: 11/26

Drg No DWG/ABS/11 REV.

FOR BIDDING PURPOSES ONLY