

ケニア共和国
エネルギー省
ケニア配電公社

ケニア共和国
ナクル市及びその周辺並びにモンバサ市周辺
配電設備整備計画
先行公開版

協力準備調査報告書

平成 31 年 3 月
(2019 年)

独立行政法人
国際協力機構 (JICA)

日本工営株式会社

産業
JR (P)
19-005

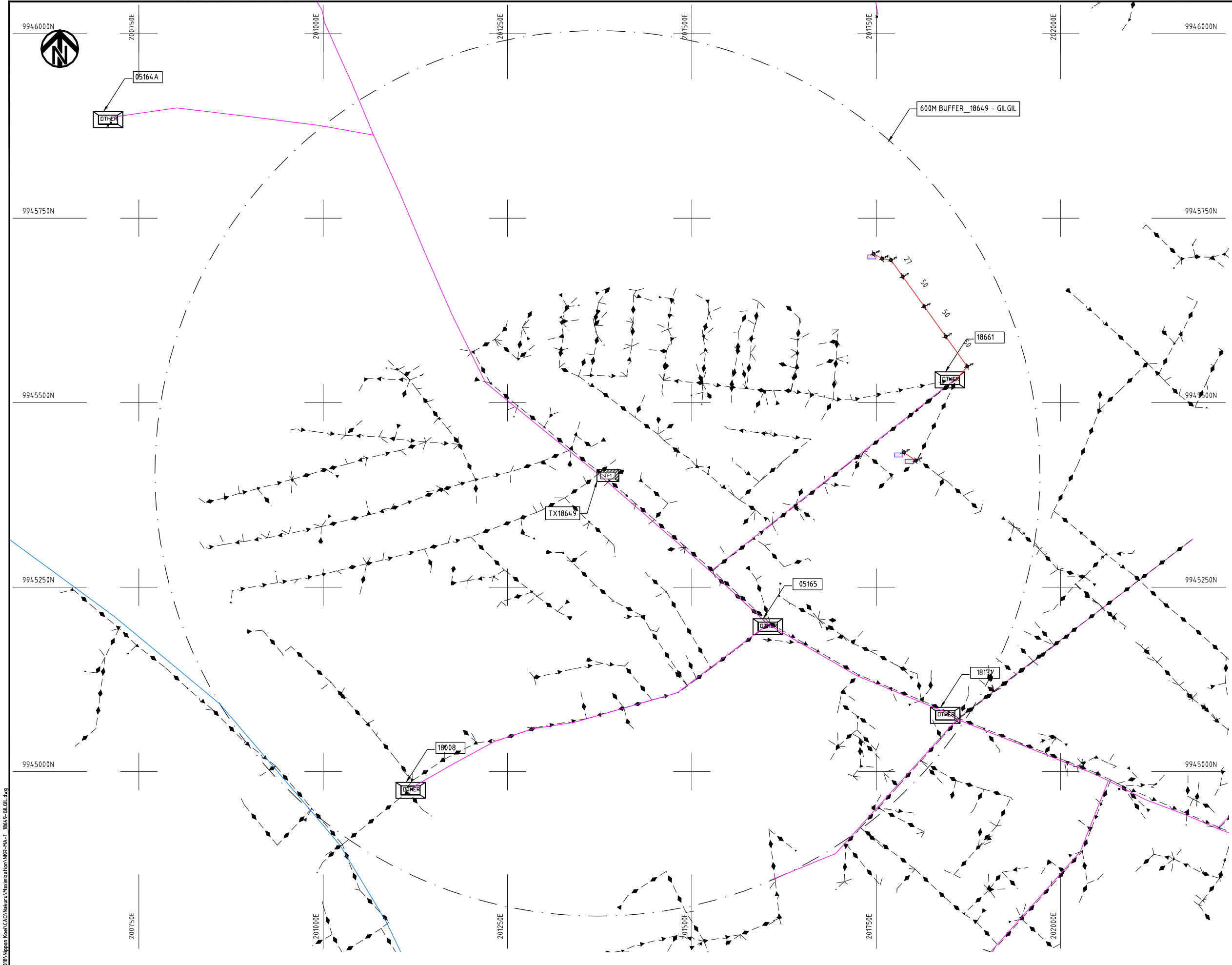
資料-8

概略設計図

No.	図面番号	図面名称
1	DWG No. NKR-MA-1～61	ナクル郡 Maximization
2	DWG No. NKR-EX-1～50	ナクル郡 Extension and Maximization
3	DWG No. NYA-MA-1～58	ニヤンダルア郡 Maximization
4	DWG No. NYA-EX-1～35	ニヤンダルア郡 Extension and Maximization
5	DWG No. KLF-MA-6～139	キリフィ郡 Maximization
6	DWG No. KLF-EX-1～14	キリフィ郡 Extension and Maximization
7	DWG No. KWL-MA-1～87	クワレ郡 Maximization
8	DWG No. KWL-EX-1～11	クワレ郡 Extension and Maximization
9	DWG No. TD-01～10	一般図

ナクル郡

Maximization



NOTES:

1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.
5. POLES NOT SHOWN WHERE PME OR LV EARTH INTERSECT FOR CLARITY.

LEGEND

- HOUSEHOLDS/ BUILDINGS
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- OTHER EXISTING TRANSFORMER
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING
- STAY

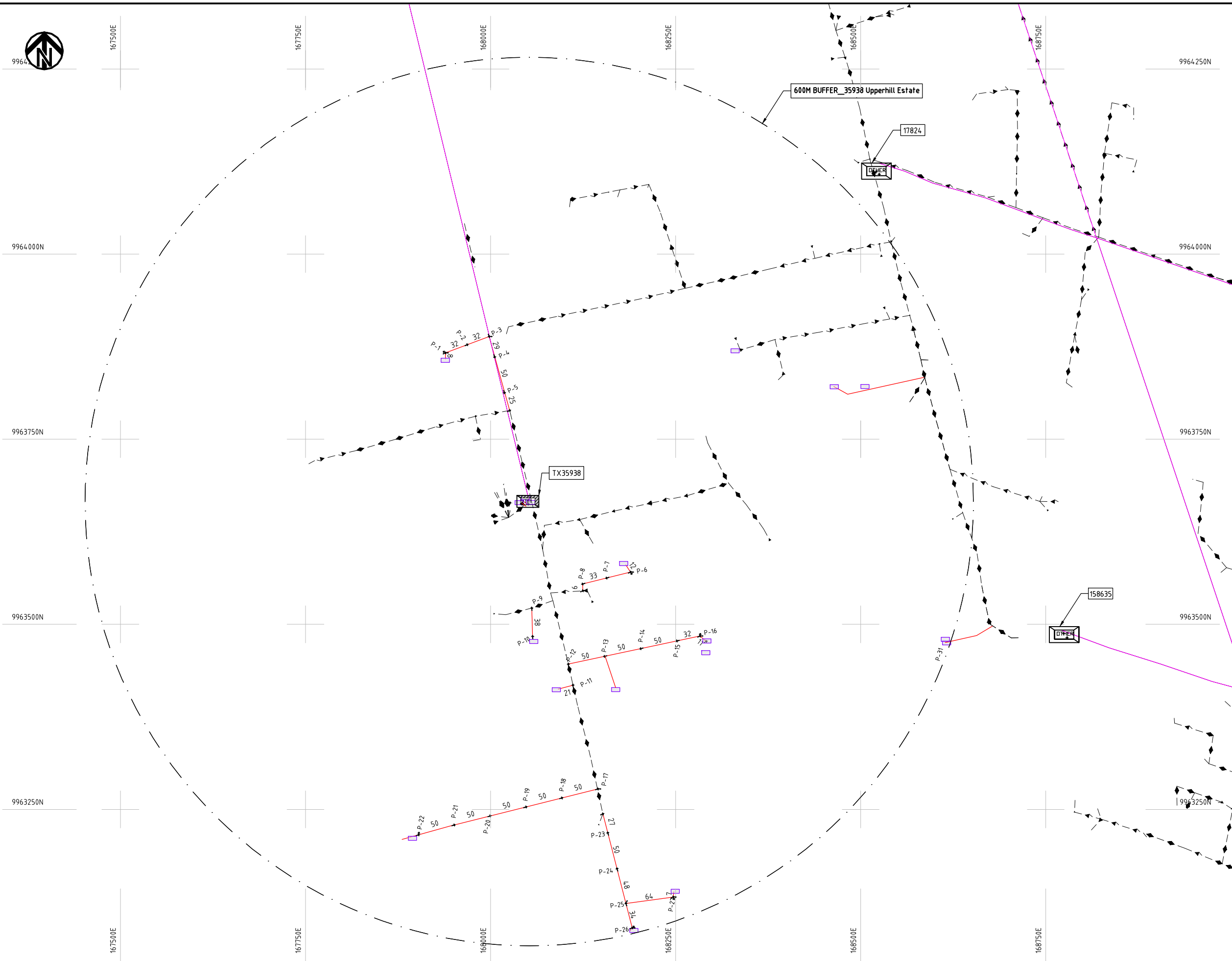
SCALE 1: 5000 50 0 50 100 150 200 250m (A3)

Cad File No. D:\Frank-Proj\2018\Nippon Koei\CAD\Nakuru\Maximization\NKR-MA-1_18649-GILGIL.dwg

PROJECT: THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA	DRAWING TITLE		DRAW. NO.	PREPARED BY	A.AKBAR
	COUNTY: NAKURU SCHEME: MAXIMIZATION PROJECT SITE: 18649-GILGIL		NKR-MA-1	CHECKED BY	S.MAETA
				APPROVED BY	Y.TANAKA
				DATE	10th SEP 2018



Cad File No. D:\Frank-Proj\2018\Nippon Koei\CAD\Nakuru\Maximization\NKR-MA-2_35938 Upperhill Estate.dwg



NOTES:

1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.
5. POLES NOT SHOWN WHERE PME OR LV EARTH INTERSECT FOR CLARITY.

LEGEND

- HOUSEHOLDS/ BUILDINGS
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- OTHER EXISTING TRANSFORMER
- PP WOODEN ELECTRIC POLES
- CP CONCRETE ELECTRIC POLES
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING
- STAY

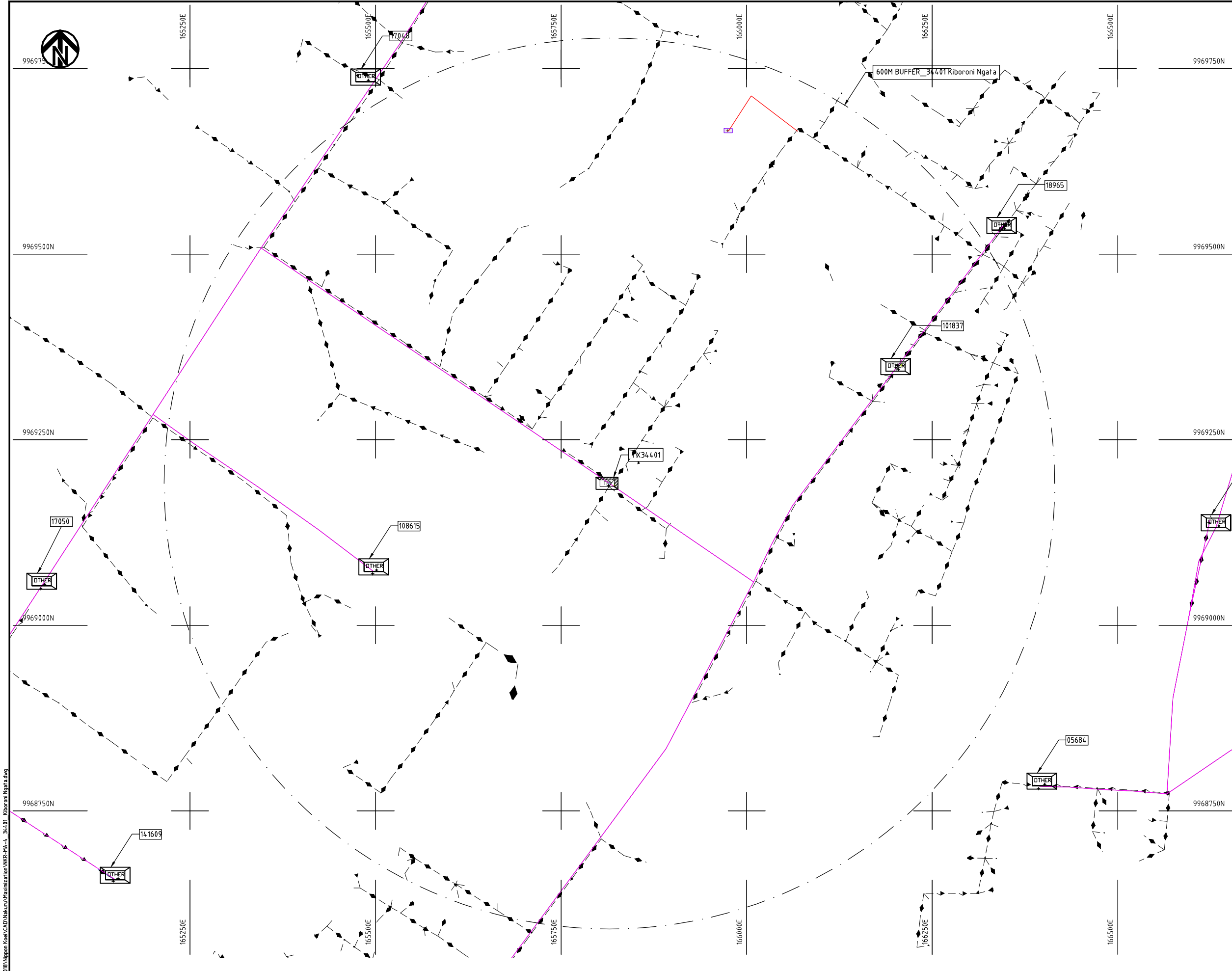
SCALE 1: 5000 (A3)

PROJECT:	THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA
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DRAWING TITLE
COUNTY: NAKURU
SCHEME: MAXIMIZATION
PROJECT SITE: 35938 - UPPERHILL ESTATE

DRAW. NO.	PREPARED BY	A.AKBAR
NKR-MA-2	CHECKED BY	S.MAETA
	APPROVED BY	Y.TANAKA
	DATE	10th SEP 2018





- NOTES:**
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.
 5. POLES NOT SHOWN WHERE PME OR LV EARTH INTERSECT FOR CLARITY.

LEGEND

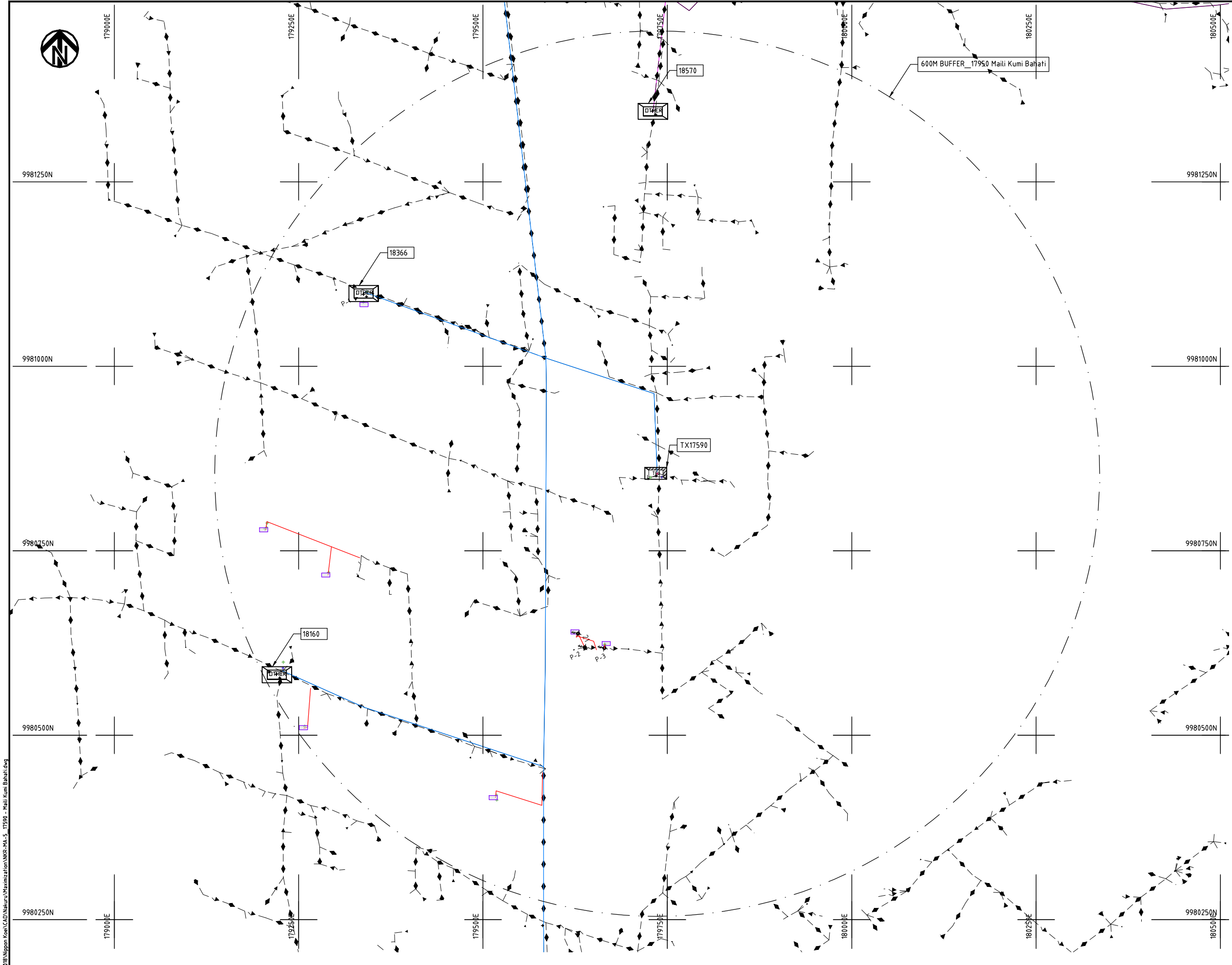
- HOUSEHOLDS/ BUILDINGS
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- OTHER EXISTING TRANSFORMER
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING
- STAY

SCALE 1: 5000 50 0 50 100 150 200 250m (A3)

Cad File No. D:\Frank-Proj\2018\Nippon Koei\CAD\Nakuru\Maximization\NKR-MA-4_34401_Kiboroni Ngata.dwg

PROJECT: THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA	DRAWING TITLE		DRAW. NO.	PREPARED BY	A.AKBAR
	COUNTY: NAKURU SCHEME: MAXIMIZATION PROJECT SITE: 34401 – KIROBONI NGATA	NKR-MA-4	CHECKED BY	S.MAETA	
			APPROVED BY	Y.TANAKA	
			DATE	10th SEP 2018	





- NOTES:**
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.
 5. POLES NOT SHOWN WHERE PME OR LV EARTH INTERSECT FOR CLARITY.

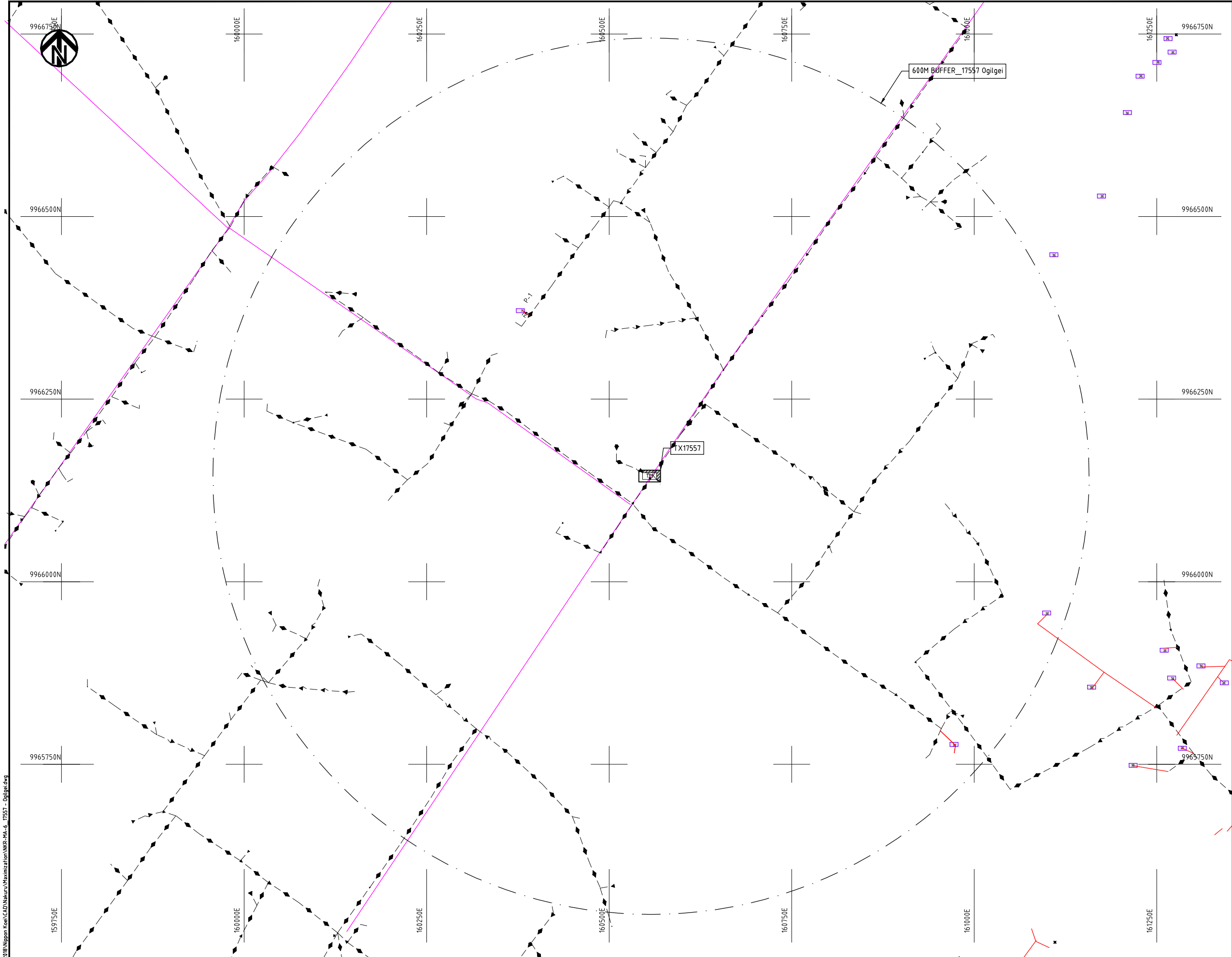
- LEGEND**
- HOUSEHOLDS/ BUILDINGS
 - PROPOSED DISTRIBUTION LINE
 - EXISTING 11kV LINE
 - EXISTING 33kV LINE
 - EXISTING DISTRIBUTION LINE
 - MAXIMISATION TRANSFORMER
 - EXTENSION TRANSFORMER
 - OTHER EXISTING TRANSFORMER
 - WOODEN ELECTRIC POLES
 - CONCRETE ELECTRIC POLES
 - LV-EARTH
 - PME -PROTECTIVE MULTIPLE EARTHING
 - STAY

SCALE 1: 5000 50 0 50 100 150 200 250m (A3)

Cad File No. D:\Frank-Proj\2018\Nippon Koei\CAD\Nakuru\Maximization\NKR-MA-5_17590 - Maili Kumi Bahati.dwg

PROJECT: THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA	DRAWING TITLE		DRAW. NO.	PREPARED BY	A.AKBAR
	COUNTY: NAKURU		NKR-MA-5	CHECKED BY	S.MAETA
	SCHEME: MAXIMIZATION			APPROVED BY	Y.TANAKA
	PROJECT SITE: 17590-Maili Kumi Bahati			DATE	10th SEP 2018





NOTES:

1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.

LEGEND

- HOUSEHOLDS/ BUILDINGS
- PROPOSED 11kV
- PROPOSED 33kV
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- PP WOODEN ELECTRIC POLES
- CP CONCRETE ELECTRIC POLES 12M
- CP CONCRETE ELECTRIC POLES 11M
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING
- STAY

SCALE 1: 5000 (A3)

PROJECT:

THE PREPARATORY SURVEY
ON THE PROJECT FOR IMPROVEMENT
OF POWER DISTRIBUTION SYSTEM
IN THE REPUBLIC OF KENYA

DRAWING TITLE

COUNTY: NAKURU
SCHEME: MAXIMIZATION
PROJECT SITE: 17557-OGILGEI

DRAW. NO.

NKR-MA-6

PREPARED BY

A.AKBAR

CHECKED BY

S.MAETA

APPROVED BY

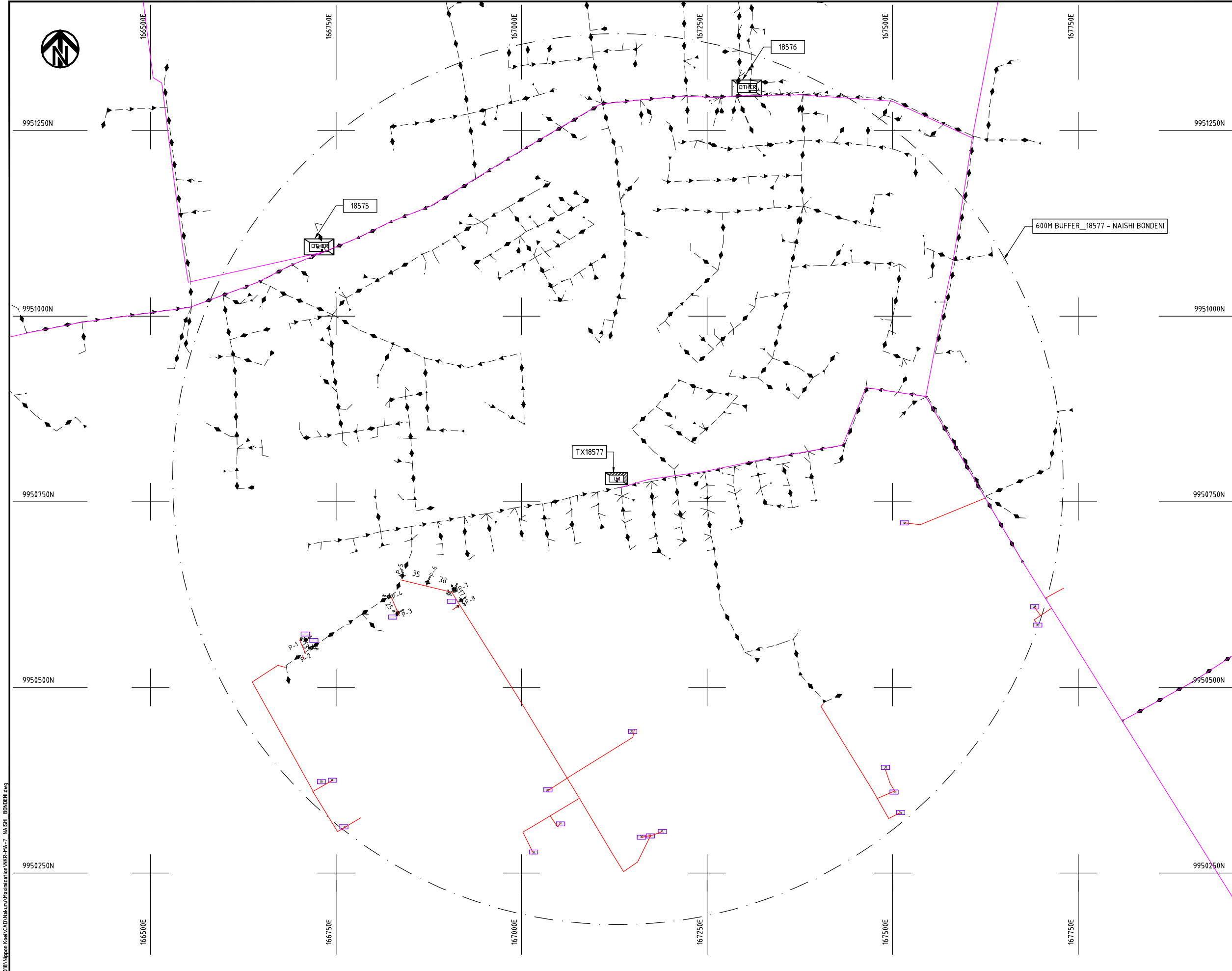
Y.TANAKA

DATE

10th SEP 2018



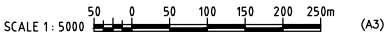
NIPPON KOEI CO., LTD



- NOTES:**
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 2. CONCRETE / WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.

LEGEND

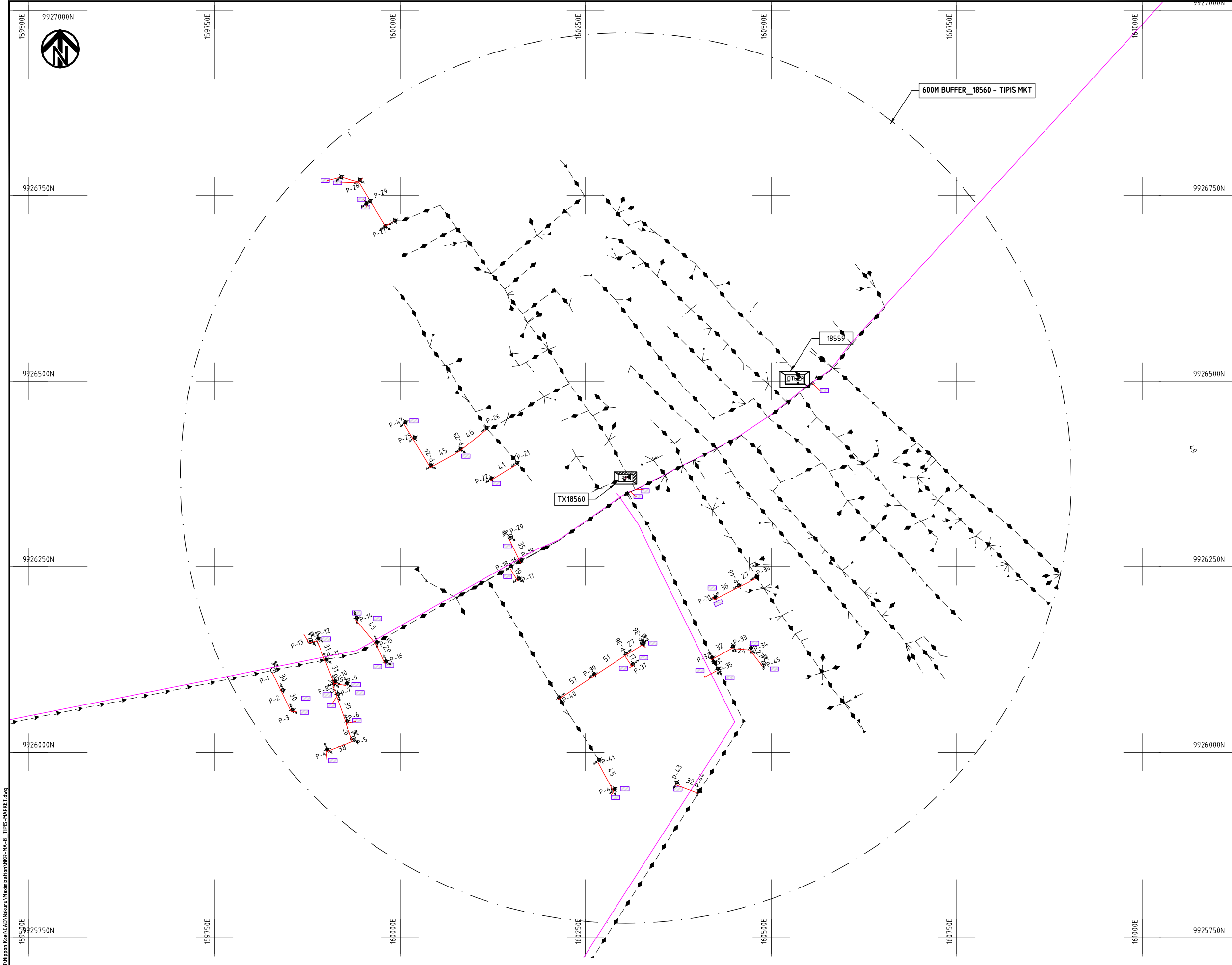
- HOUSEHOLDS/ BUILDINGS
- PROPOSED 11kV
- PROPOSED 33kV
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES 12M
- CONCRETE ELECTRIC POLES 11M
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING
- STAY



Cad File No. D:\Frank-Proj 2018\Nippon Koei\CAD\Nakuru\Maximization\NKR-MA-7_NAISHI_BONDENI.dwg

PROJECT: THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA	DRAWING TITLE		DRAW. NO.	PREPARED BY	A.AKBAR
	COUNTY: NAKURU SCHEME: MAXIMIZATION PROJECT SITE: 18577-NAISHI BONDENI		NKR-MA-7	CHECKED BY	S.MAETA
				APPROVED BY	Y.TANAKA
				DATE	10th SEP 2018

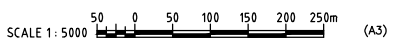




- NOTES:**
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.
 5. POLES NOT SHOWN WHERE PME OR LV EARTH INTERSECT FOR CLARITY.

LEGEND

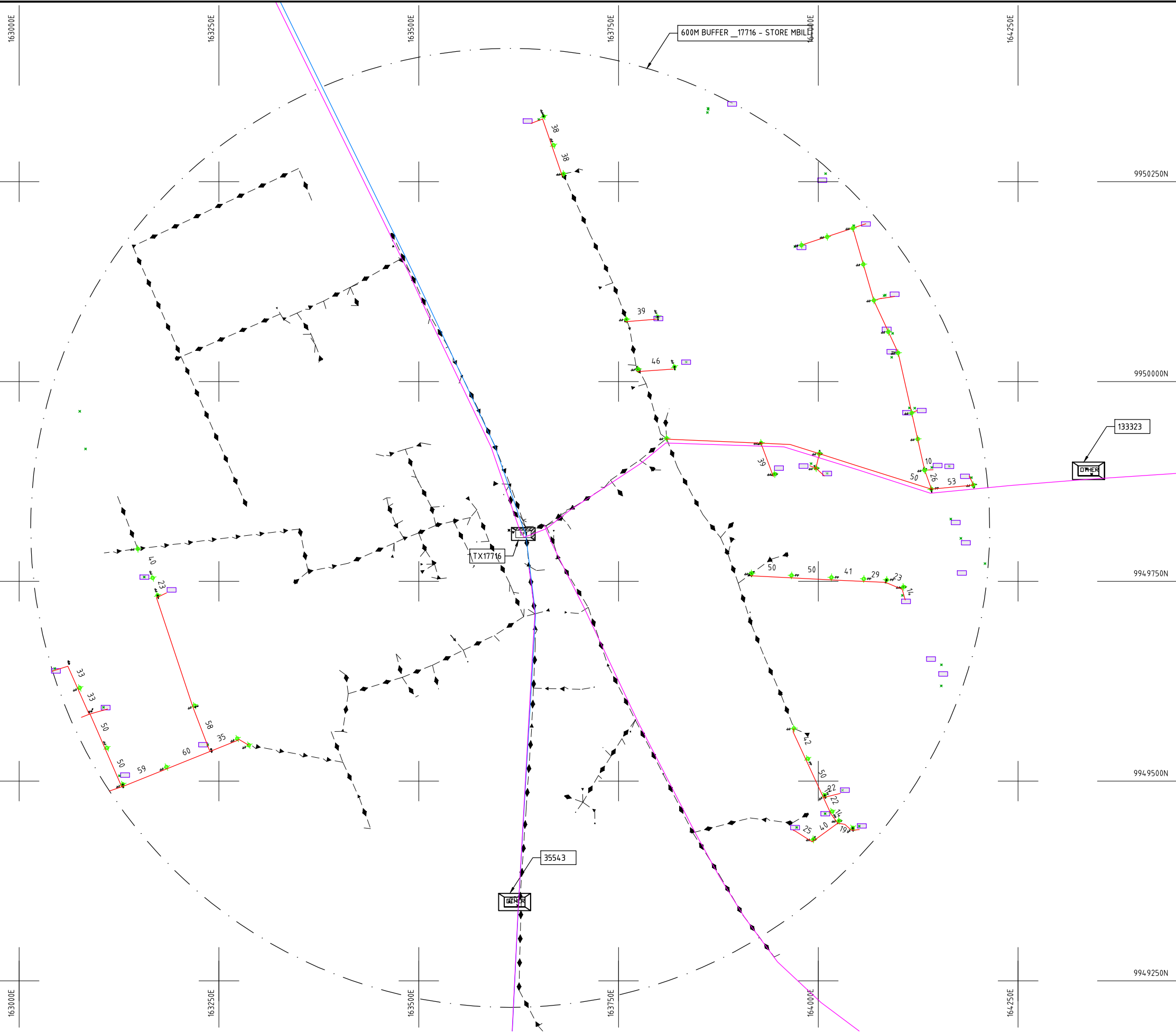
- HOUSEHOLDS/ BUILDINGS
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- OTHER EXISTING TRANSFORMER
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING
- STAY



Cad File No. D:\Frank-Proj 2018\Nippon Koei\CAD\Nakuru\Maximization\NKR-MA-8 TIPIS-MARKET.dwg

PROJECT: THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA	DRAWING TITLE		DRAW. NO.	PREPARED BY	A.AKBAR
	COUNTY: NAKURU		NKR-MA-8	CHECKED BY	S.MAETA
	SCHEME: MAXIMIZATION			APPROVED BY	Y.TANAKA
	PROJECT SITE: 18560-TIPIS MARKET			DATE	10th SEP 2018

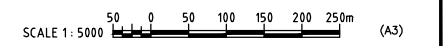




- NOTES:**
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.
 5. POLES NOT SHOWN WHERE PME OR LV EARTH INTERSECT FOR CLARITY.

LEGEND

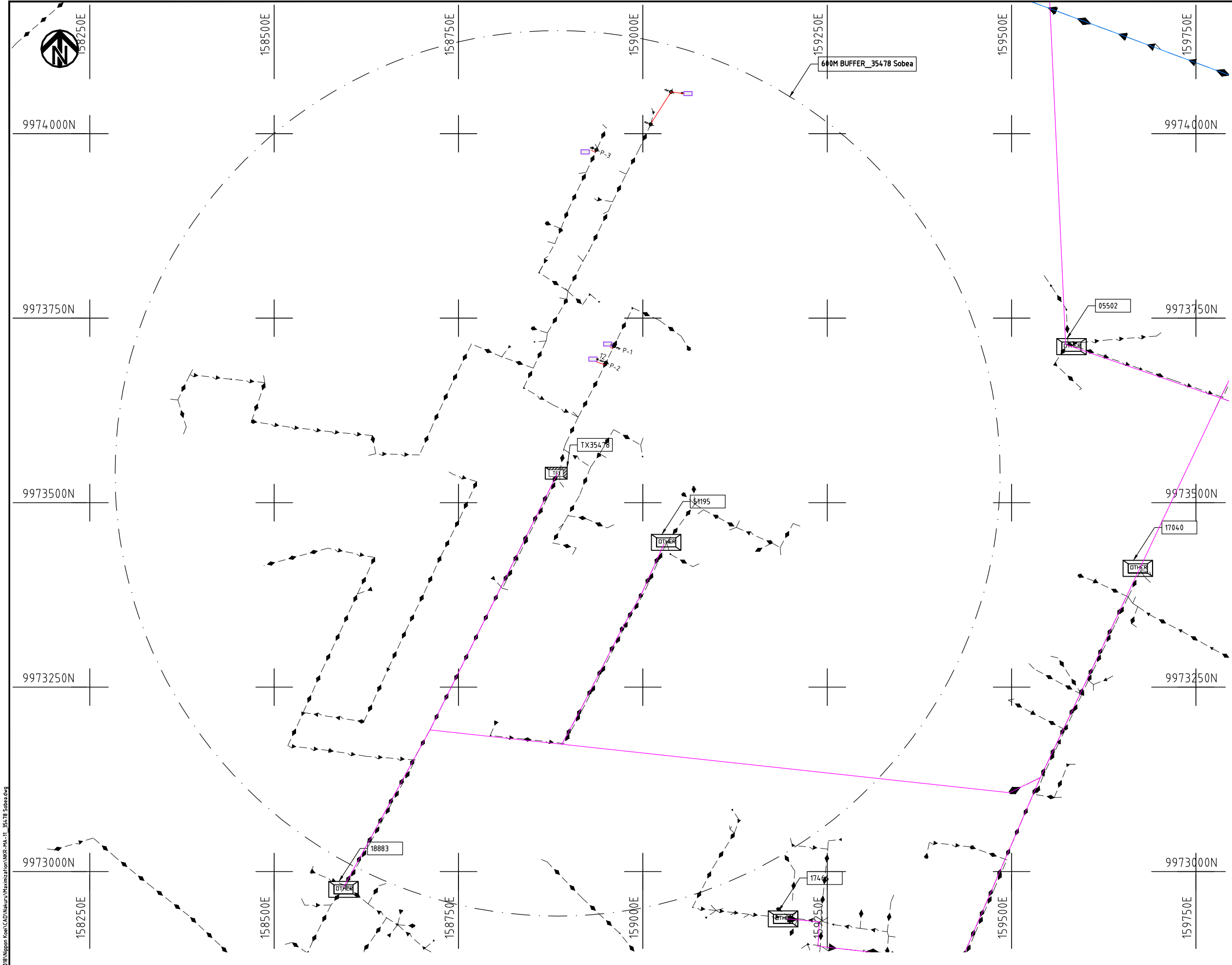
- HOUSEHOLDS/ BUILDINGS
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- OTHER EXISTING TRANSFORMER
- PP WOODEN ELECTRIC POLES
- CP CONCRETE ELECTRIC POLES
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING
- STAY



Cad File No. D:\Frank-Proj\2018\Nippon Koei\CAD\Nakuru\Maximization\NKR-MA-9_17716-STORE_MBILI.dwg

	PROJECT: THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA	DRAWING TITLE		DRAW. NO.	PREPARED BY	A.AKBAR
		COUNTY: NAKURU SCHEME: MAXIMIZATION PROJECT SITE: 17716 – STORE MBILI		NKR-MA-9	CHECKED BY	S.MAETA
					APPROVED BY	Y.TANAKA
					DATE	10th SEP 2018

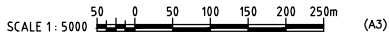




- NOTES:**
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.
 5. POLES NOT SHOWN WHERE PME OR LV EARTH INTERSECT FOR CLARITY.

LEGEND

- HOUSEHOLDS/ BUILDINGS
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- OTHER EXISTING TRANSFORMER
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING
- STAY



Cad File No. D:\Frank-Proj 2018\Nippon Koei\CAD\Nakuru\Maximization\NKR-MA-11_35478 Sobe.dwg

PROJECT: THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA	DRAWING TITLE		DRAW. NO.	PREPARED BY	A.AKBAR
	COUNTY: NAKURU SCHEME: MAXIMIZATION PROJECT SITE: 35478 SOBEA		NKR-MA-11	CHECKED BY	S.MAETA
				APPROVED BY	Y.TANAKA
				DATE	10th SEP 2018





9965750N

9965500N

9965250N

9965000N

9964750N

148000E

148250E

148500E

148750E

149000E

149250E

9965750N

9965500N

9965250N

9965000N

9964750N

148000E

148250E

148500E

148750E

149000E

149250E

600M BUFFER_05896 -
RONGAI WATER WORKS

TX05896

NOTES:

1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
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5. POLES NOT SHOWN WHERE PME OR LV EARTH INTERSECT FOR CLARITY.

LEGEND

- HOUSEHOLDS/ BUILDINGS
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- OTHER EXISTING TRANSFORMER
- PP WOODEN ELECTRIC POLES
- CP CONCRETE ELECTRIC POLES
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING
- STAY

SCALE 1:5000 (A3)

PROJECT:

THE PREPARATORY SURVEY
ON THE PROJECT FOR IMPROVEMENT
OF POWER DISTRIBUTION SYSTEM
IN THE REPUBLIC OF KENYA

DRAWING TITLE

COUNTY: NAKURU
SCHEME: MAXIMIZATION
PROJECT SITE: 05896-RONGAI WATER WORKS

DRAW. NO.

NKR-MA-13

PREPARED BY

A.AKBAR

CHECKED BY

S.MAETA

APPROVED BY

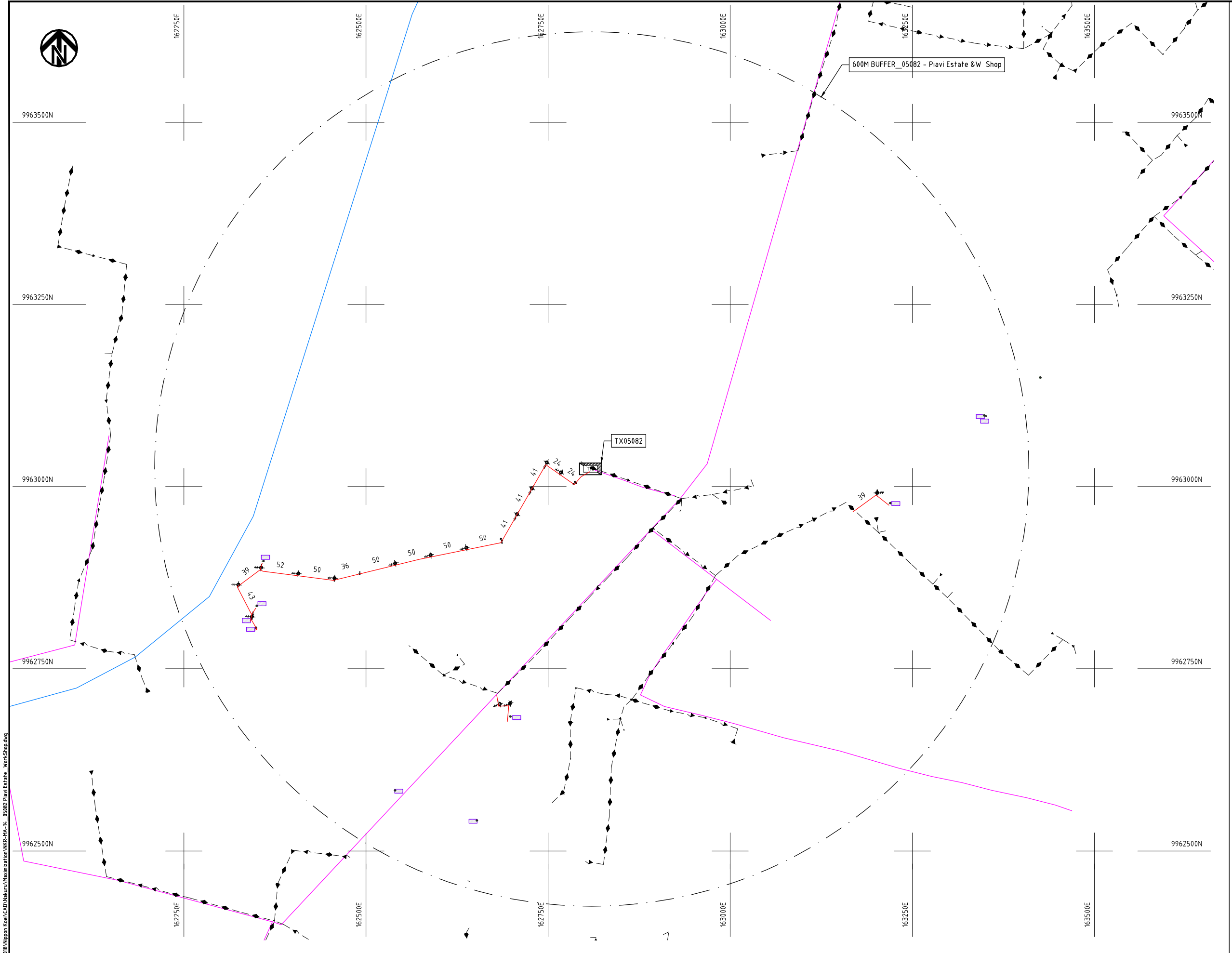
Y.TANAKA

DATE

10th SEP 2018

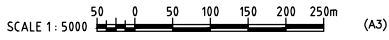


NIPPON KOEI CO., LTD



- NOTES:**
- 1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 - 2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 - 3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
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 - 5. POLES NOT SHOWN WHERE PME OR LV EARTH INTERSECT FOR CLARITY.

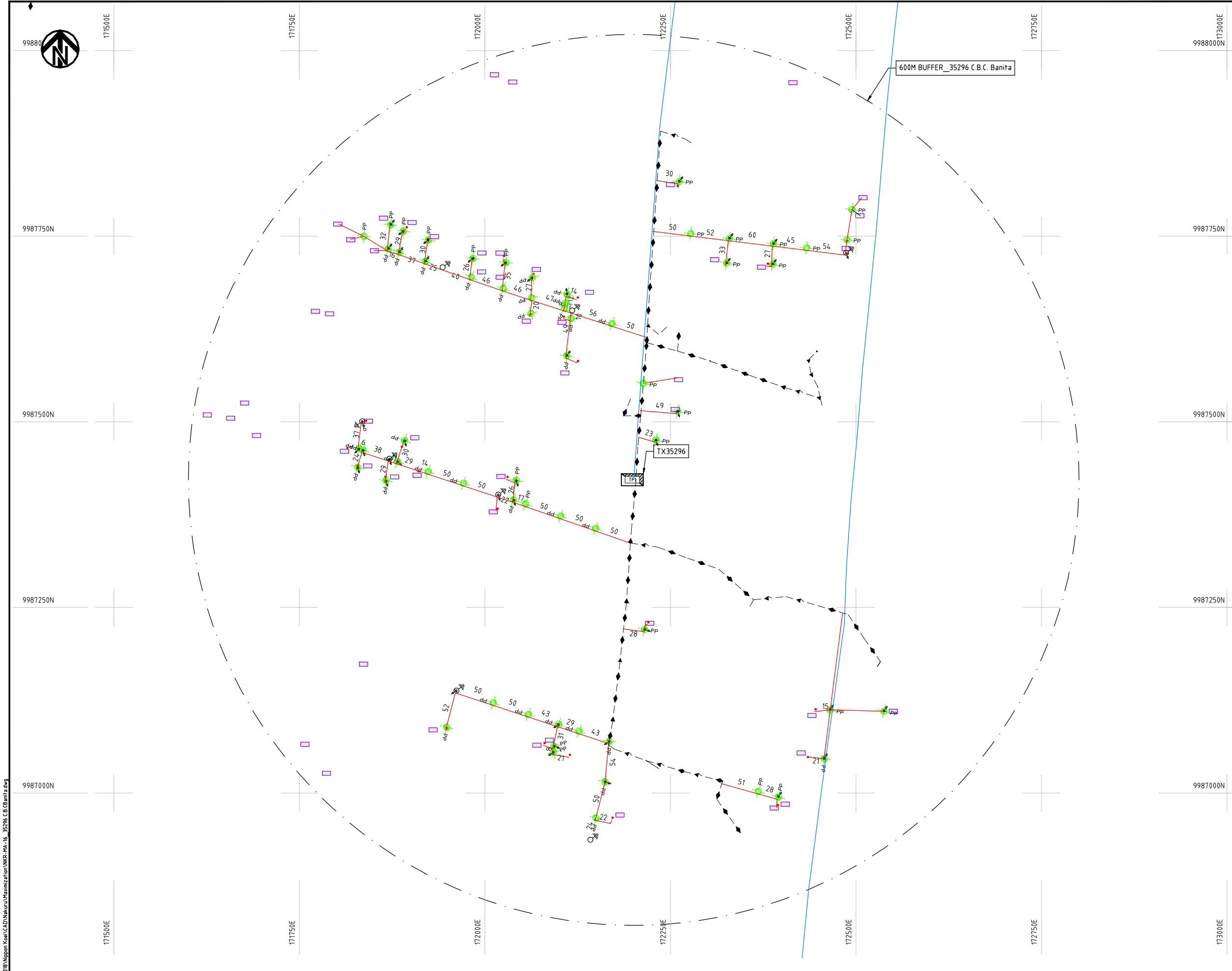
- LEGEND**
- HOUSEHOLDS/ BUILDINGS
 - PROPOSED DISTRIBUTION LINE
 - EXISTING 11kV LINE
 - EXISTING 33kV LINE
 - EXISTING DISTRIBUTION LINE
 - MAXIMISATION TRANSFORMER
 - EXTENSION TRANSFORMER
 - OTHER EXISTING TRANSFORMER
 - WOODEN ELECTRIC POLES
 - CONCRETE ELECTRIC POLES
 - LV-EARTH
 - PME -PROTECTIVE MULTIPLE EARTHING
 - STAY



Cad File No. D:\Frank-Proj\2018\Nippon Koei\CAD\Nakuru\Maximization\NKR-MA-14_05082 Plant Estate_WorkShop.dwg

PROJECT: THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA	DRAWING TITLE		DRAW. NO.	PREPARED BY	A.AKBAR
	COUNTY: NAKURU SCHEME: MAXIMIZATION PROJECT SITE: 05082 PIAVI ESTATE AND WORKSHOP		NKR-MA-14	CHECKED BY	S.MAETA
				APPROVED BY	Y.TANAKA
				DATE	10th SEP 2018

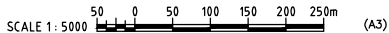




- NOTES:**
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.
 5. POLES NOT SHOWN WHERE PME OR LV EARTH INTERSECT FOR CLARITY.

LEGEND

- HOUSEHOLDS/ BUILDINGS
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- OTHER EXISTING TRANSFORMER
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING
- STAY



Cad File No. D:\Frank-Proj 2018\Nippon Koei\CAD\Nakuru\Maximization\NKR-MA-16_35296 C.B.C.Banita.dwg

PROJECT: THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA	DRAWING TITLE		DRAW. NO.	PREPARED BY	A.AKBAR
	COUNTY: NAKURU		NKR-MA-16	CHECKED BY	S.MAETA
	SCHEME: MAXIMIZATION			APPROVED BY	Y.TANAKA
	PROJECT SITE: 35296__C.B.C.BANITA			DATE	10th SEP 2018





NOTES:

1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.
5. POLES NOT SHOWN WHERE PME OR LV EARTH INTERSECT FOR CLARITY.

LEGEND

- HOUSEHOLDS/ BUILDINGS
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- OTHER EXISTING TRANSFORMER
- PP WOODEN ELECTRIC POLES
- CP CONCRETE ELECTRIC POLES
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING
- STAY

SCALE 1: 5000 (A3)

PROJECT:

THE PREPARATORY SURVEY
ON THE PROJECT FOR IMPROVEMENT
OF POWER DISTRIBUTION SYSTEM
IN THE REPUBLIC OF KENYA

DRAWING TITLE

COUNTY: NAKURU
SCHEME: MAXIMIZATION
PROJECT SITE: 05704 - MCHANGANYIKO ESTATE

DRAW. NO.

NKR-MA-17

PREPARED BY

A.AKBAR

CHECKED BY

S.MAETA

APPROVED BY

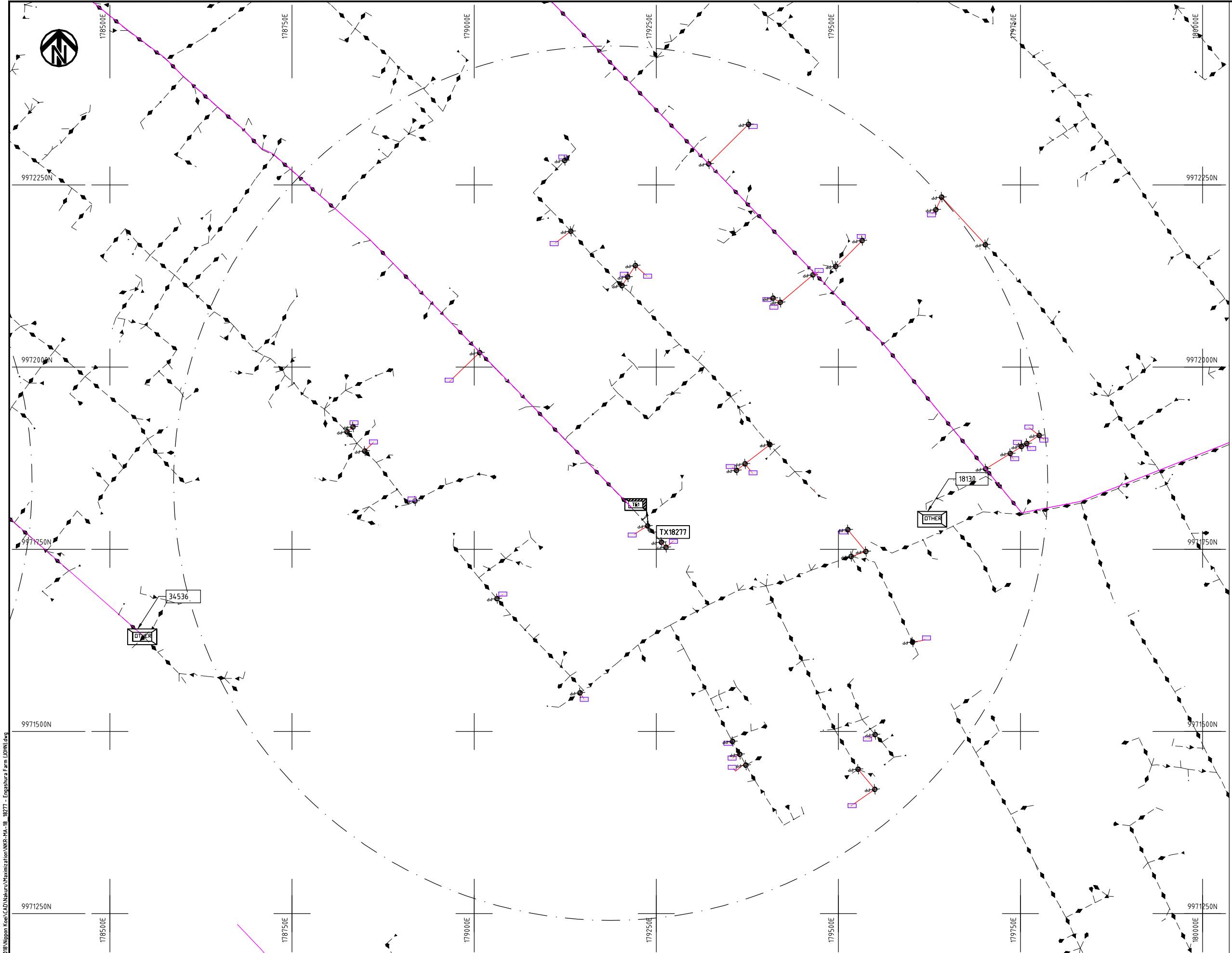
Y.TANAKA

DATE

10th SEP 2018



NIPPON KOEI CO., LTD



NOTES:

1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.
5. POLES NOT SHOWN WHERE PME OR LV EARTH INTERSECT FOR CLARITY.

LEGEND

- HOUSEHOLDS/ BUILDINGS
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- OTHER EXISTING TRANSFORMER
- PP WOODEN ELECTRIC POLES
- CP CONCRETE ELECTRIC POLES
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING
- STAY

SCALE 1:5000 (A3)

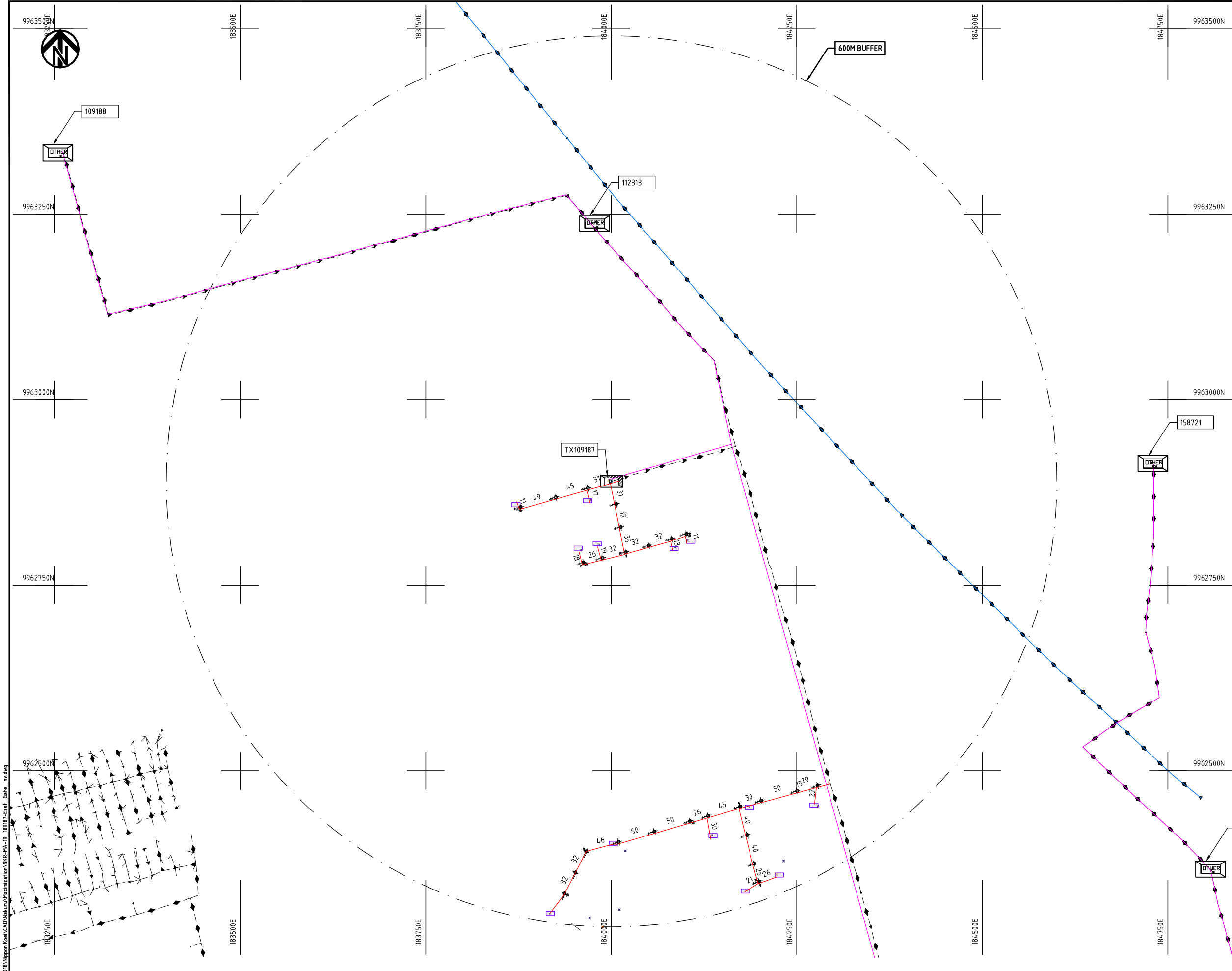
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PROJECT:
THE PREPARATORY SURVEY
ON THE PROJECT FOR IMPROVEMENT
OF POWER DISTRIBUTION SYSTEM
IN THE REPUBLIC OF KENYA

DRAWING TITLE
COUNTY: NAKURU
SCHEME: MAXIMIZATION
PROJECT SITE: 18277_Engashura Farm(JOHN)

DRAW. NO.	PREPARED BY	A.AKBAR
NKR-MA-18	CHECKED BY	S.MAETA
	APPROVED BY	Y.TANAKA
	DATE	10th SEP 2018

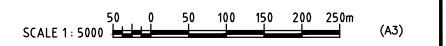




- NOTES:**
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.

LEGEND

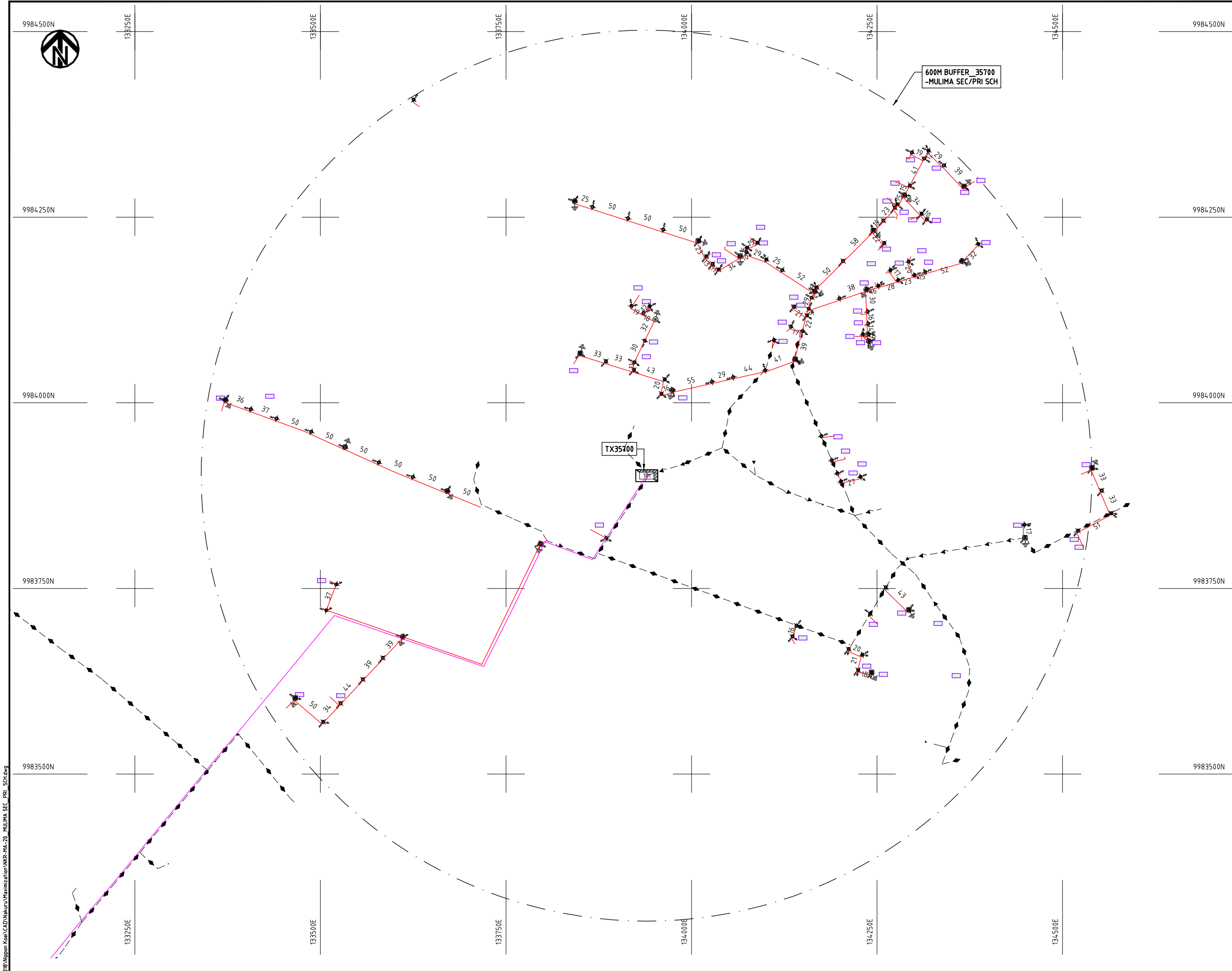
- HOUSEHOLDS/ BUILDINGS
- PROPOSED 11kV
- PROPOSED 33kV
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES 12M
- CONCRETE ELECTRIC POLES 11M
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING
- STAY



Cad File No. D:\Frank-Proj 2018\Nippon Koei\CAD\Nakuru\Maximization\NKR-MA-19 109187-East Gate Inv.dwg

PROJECT: THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA	DRAWING TITLE		DRAW. NO.	PREPARED BY	A.AKBAR
	COUNTY: NAKURU SCHEME: MAXIMIZATION PROJECT SITE: 109187-EAST GATE PRE INVEST		NKR-MA-19	CHECKED BY	S.MAETA
				APPROVED BY	Y.TANAKA
				DATE	10th SEP 2018

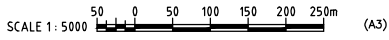




- NOTES:**
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.
 5. POLES NOT SHOWN WHERE PME OR LV EARTH INTERSECT FOR CLARITY.

LEGEND

- HOUSEHOLDS/ BUILDINGS
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- OTHER EXISTING TRANSFORMER
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING
- STAY

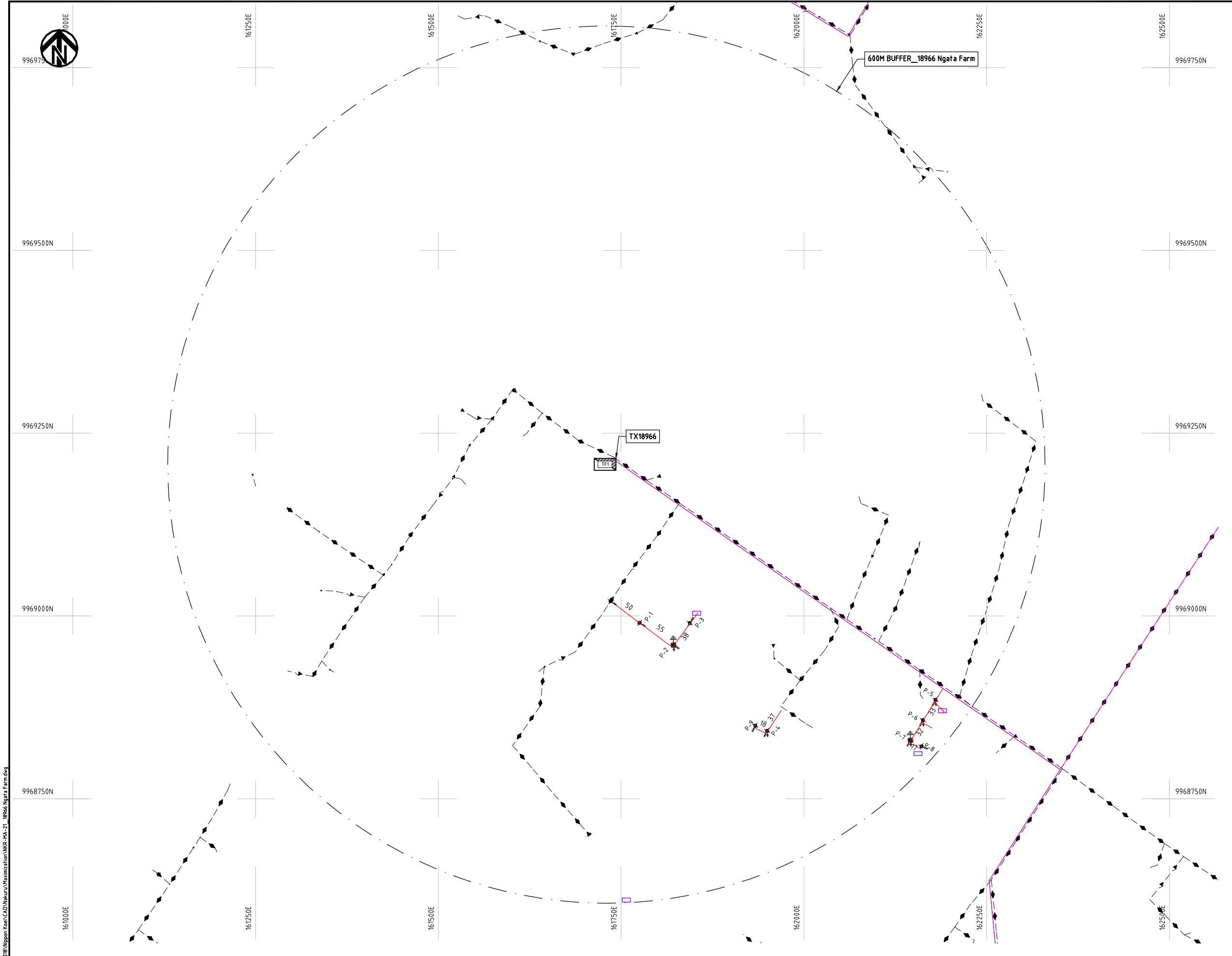


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PROJECT: THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA	DRAWING TITLE		DRAW. NO.	PREPARED BY	A.AKBAR
	COUNTY: NAKURU SCHEME: MAXIMIZATION PROJECT SITE: 35700-MULIMA SEC/PRI SCHOOL	NKR-MA-20	CHECKED BY	S.MAETA	
			APPROVED BY	Y.TANAKA	
			DATE	10th SEP 2018	



Cad File No. D:\Frank-Proj\2018\Nippon Koei\CAD\Nakuru\Maximization\NKR-MA-21_18966 Ngata Farm.dwg



NOTES:

1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.
5. POLES NOT SHOWN WHERE PME OR LV EARTH INTERSECT FOR CLARITY.

LEGEND

- HOUSEHOLDS/ BUILDINGS
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- OTHER EXISTING TRANSFORMER
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING
- STAY

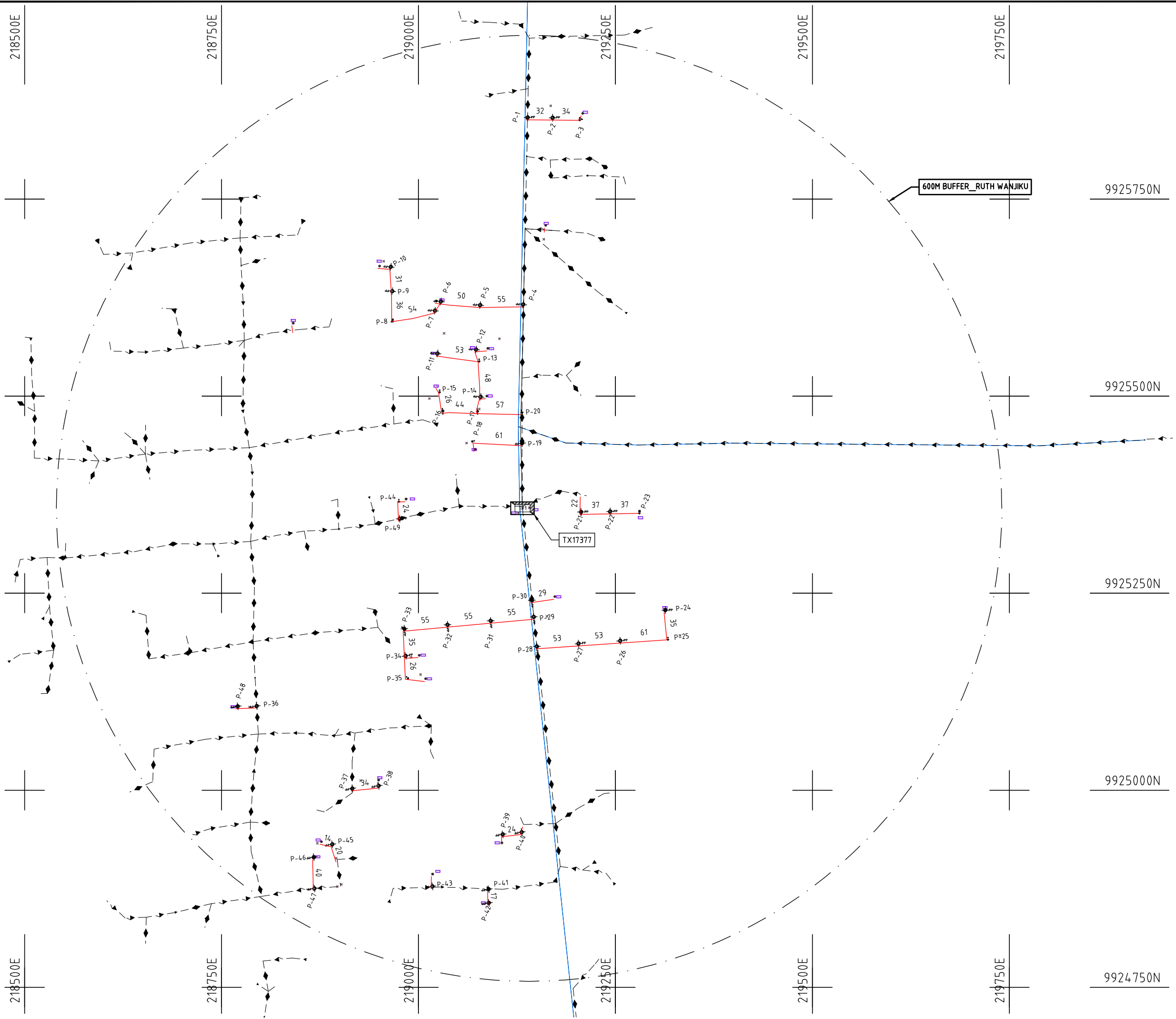
SCALE 1 : 5000 (A3)

PROJECT:
THE PREPARATORY SURVEY
ON THE PROJECT FOR IMPROVEMENT
OF POWER DISTRIBUTION SYSTEM
IN THE REPUBLIC OF KENYA

DRAWING TITLE
COUNTY: NAKURU
SCHEME: MAXIMIZATION
PROJECT SITE: 18966 NGATA FARM

DRAW. NO.	PREPARED BY	A.AKBAR
NKR-MA-21	CHECKED BY	S.MAETA
	APPROVED BY	Y.TANAKA
	DATE	10th SEP 2018

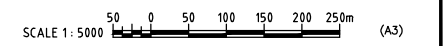




- NOTES:**
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.

LEGEND

- HOUSEHOLDS/ BUILDINGS
- PROPOSED 11kV
- PROPOSED 33kV
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- PP WOODEN ELECTRIC POLES
- CP CONCRETE ELECTRIC POLES 12M
- CP CONCRETE ELECTRIC POLES 11M
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING
- STAY



Cad File No. D:\Frank-Proj\2018\Nippon Koei\CAD\Nakuru\Maximization\NKR-MA-22_RUTH WANJIKU.dwg

	PROJECT: THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA	DRAWING TITLE		DRAW. NO.	PREPARED BY	A.AKBAR
		COUNTY: NAKURU SCHEME: MAXIMIZATION PROJECT SITE: 17377 RUTH WANJIKU		NKR-MA-22	CHECKED BY	S.MAETA
					APPROVED BY	Y.TANAKA
					DATE	10th SEP 2018





- NOTES:**
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.
 5. POLES NOT SHOWN WHERE PME OR LV EARTH INTERSECT FOR CLARITY.

- LEGEND**
- HOUSEHOLDS/ BUILDINGS
 - PROPOSED DISTRIBUTION LINE
 - EXISTING 11kV LINE
 - EXISTING 33kV LINE
 - EXISTING DISTRIBUTION LINE
 - MAXIMISATION TRANSFORMER
 - EXTENSION TRANSFORMER
 - OTHER EXISTING TRANSFORMER
 - PP WOODEN ELECTRIC POLES
 - CP CONCRETE ELECTRIC POLES
 - LV-EARTH
 - PME -PROTECTIVE MULTIPLE EARTHING
 - STAY

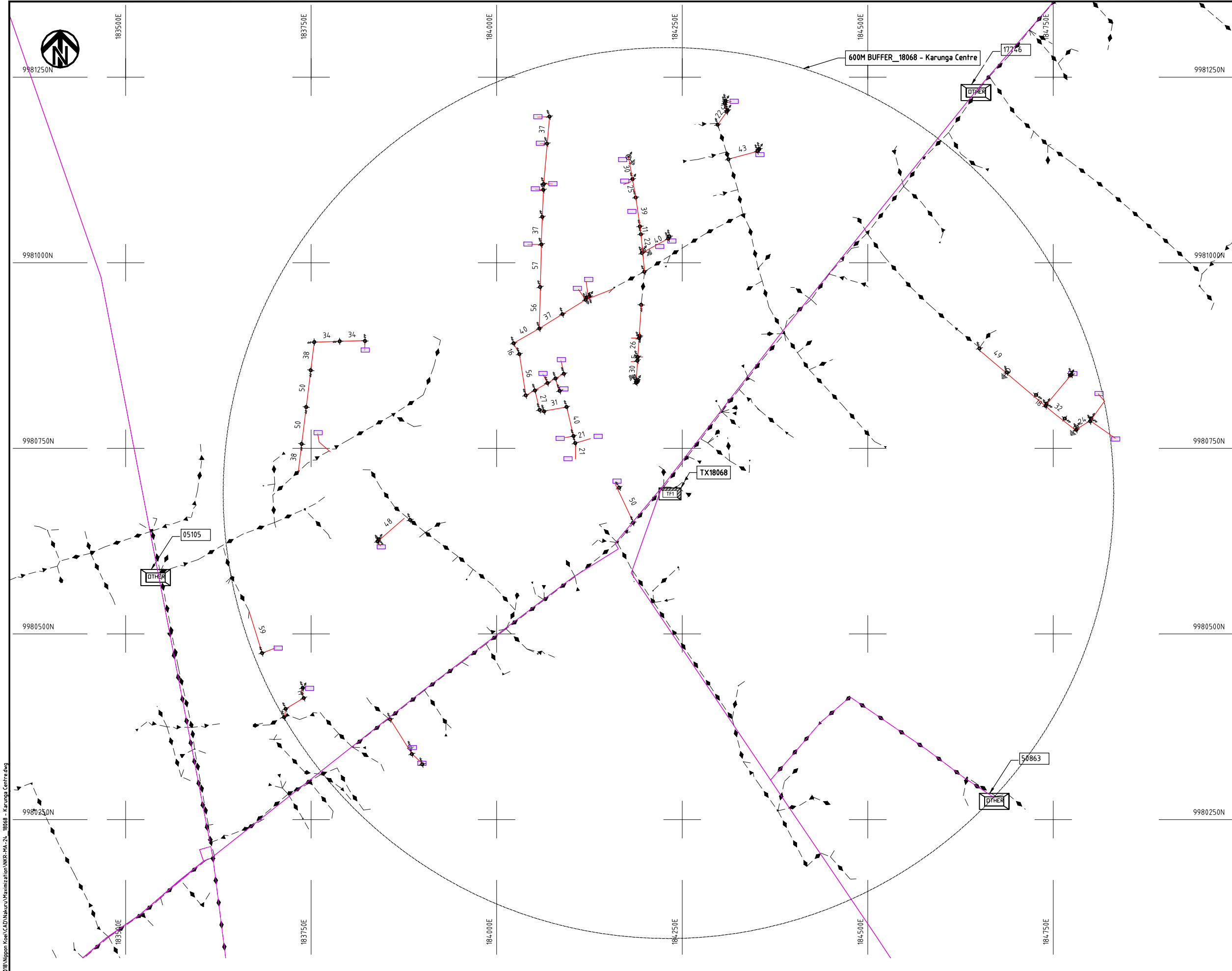
SCALE 1: 5000 (A3)

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PROJECT:	DRAWING TITLE		DRAW. NO.		PREPARED BY	A.AKBAR
			NKR-MA-23		CHECKED BY	S.MAETA
	THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA				APPROVED BY	Y.TANAKA
					DATE	10th SEP 2018

COUNTY: NAKURU
SCHEME: MAXIMIZATION
PROJECT SITE: 05629-BAHATI CENTRE





- NOTES:**
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.
 5. POLES NOT SHOWN WHERE PME OR LV EARTH INTERSECT FOR CLARITY.

- LEGEND**
- HOUSEHOLDS/ BUILDINGS
 - PROPOSED DISTRIBUTION LINE
 - EXISTING 11kV LINE
 - EXISTING 33kV LINE
 - EXISTING DISTRIBUTION LINE
 - MAXIMISATION TRANSFORMER
 - EXTENSION TRANSFORMER
 - OTHER EXISTING TRANSFORMER
 - WOODEN ELECTRIC POLES
 - CONCRETE ELECTRIC POLES
 - LV-EARTH
 - PME -PROTECTIVE MULTIPLE EARTHING
 - STAY

SCALE 1: 5000 50 0 50 100 150 200 250m (A3)

Cad File No. D:\Frank-Proj 2018\Nippon Koei\CAD\Nakuru\Maximization\NKR-MA-24 - 18068 - Karunga Centre.dwg

PROJECT: THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA	DRAWING TITLE		DRAW. NO.	PREPARED BY	A.AKBAR
	COUNTY: NAKURU		NKR-MA-24	CHECKED BY	S.MAETA
	SCHEME: MAXIMIZATION			APPROVED BY	Y.TANAKA
	PROJECT SITE: 18068 – KARUNGA CENTRE			DATE	10th SEP 2018





9984.250N

9984.000N

9983.750N

9983.500N

9983.250N

172500E

172750E

172750E

173000E

173000E

173250E

173250E

173500E

173500E

173750E

173750E

174000E

174000E

9984.250N

9984.000N

9983.750N

9983.500N

9983.250N

600M BUFFER_35295 C.B.C. Arahuka

600M BUFFER_ Arahuka PCEA

TX35295

Arahuka PCEA Extension TX

NOTES:

1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.
5. POLES NOT SHOWN WHERE PME OR LV EARTH INTERSECT FOR CLARITY.

LEGEND

- HOUSEHOLDS/ BUILDINGS
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- OTHER EXISTING TRANSFORMER
- PP WOODEN ELECTRIC POLES
- CP CONCRETE ELECTRIC POLES
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING
- STAY

SCALE 1:5000 (A3)

PROJECT:

THE PREPARATORY SURVEY
ON THE PROJECT FOR IMPROVEMENT
OF POWER DISTRIBUTION SYSTEM
IN THE REPUBLIC OF KENYA

DRAWING TITLE

COUNTY: NAKURU
SCHEME: MAXIMIZATION
PROJECT SITE: 35295 - C.B.C. ARAHUKA

DRAW. NO.

NKR-MA-27

PREPARED BY

A.AKBAR

CHECKED BY

S.MAETA

APPROVED BY

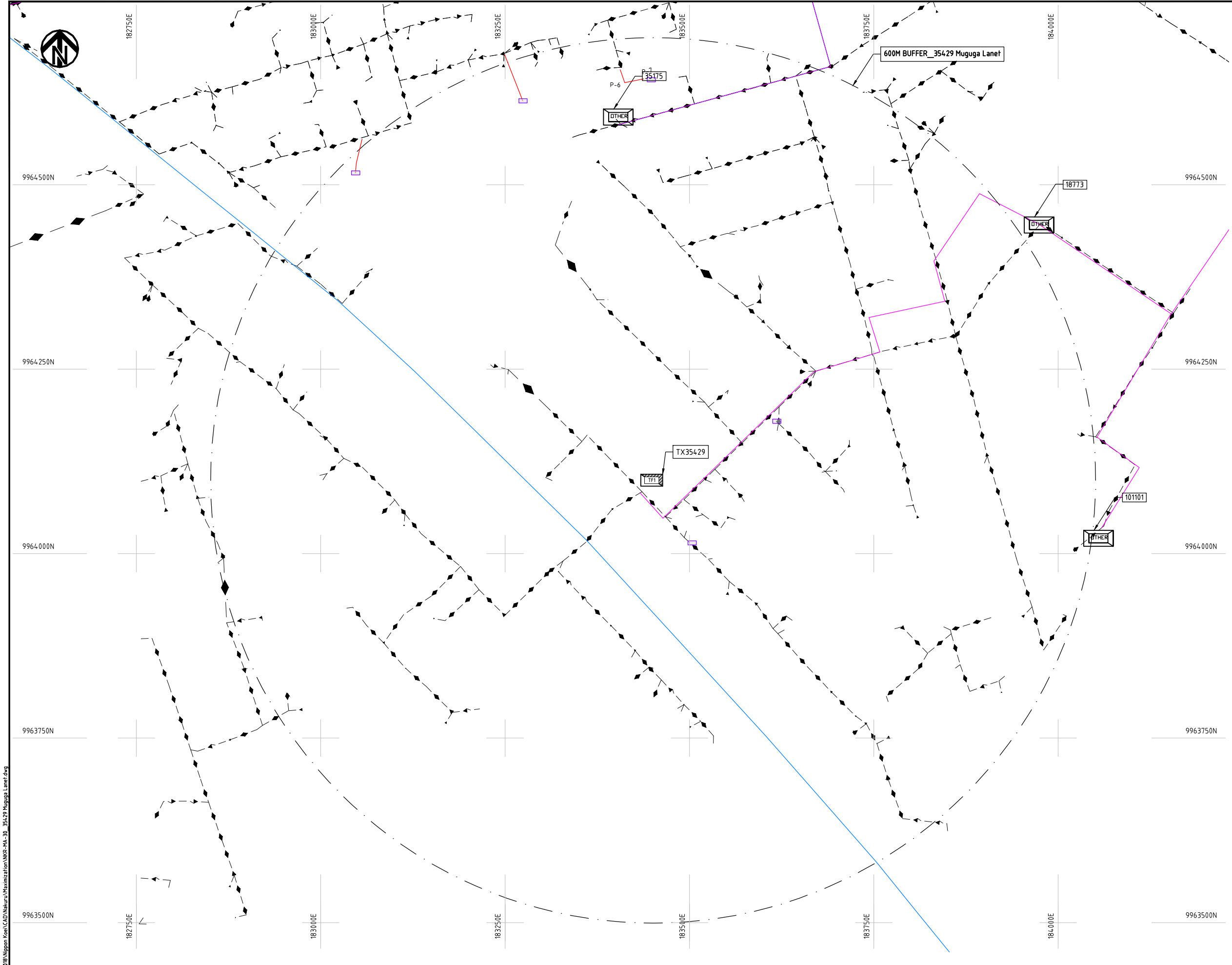
Y.TANAKA

DATE

10th SEP 2018



NIPPON KOEI CO., LTD



- NOTES:**
- 1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 - 2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 - 3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 - 4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.
 - 5. POLES NOT SHOWN WHERE PME OR LV EARTH INTERSECT FOR CLARITY.

LEGEND

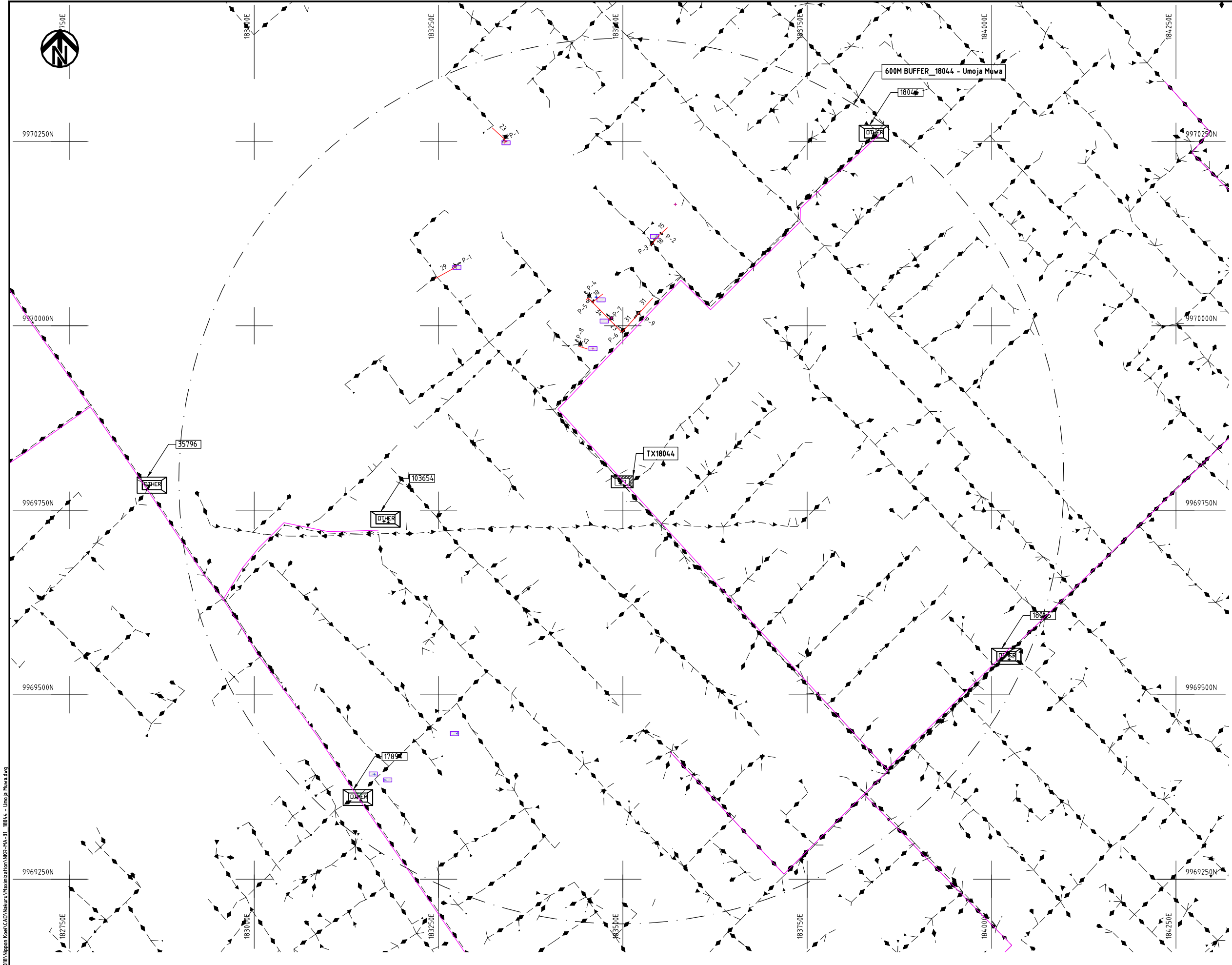
	HOUSEHOLDS/ BUILDINGS
	PROPOSED DISTRIBUTION LINE
	EXISTING 11kV LINE
	EXISTING 33kV LINE
	EXISTING DISTRIBUTION LINE
	MAXIMISATION TRANSFORMER
	EXTENSION TRANSFORMER
	OTHER EXISTING TRANSFORMER
	WOODEN ELECTRIC POLES
	CONCRETE ELECTRIC POLES
	LV-EARTH
	PME -PROTECTIVE MULTIPLE EARTHING
	STAY

SCALE 1: 5000 (A3)

Cad File No. D:\Frank-Proj 2018\Nippon Koei\CAD\Nakuru\Maximization\NKR-MA-30_35429 Muguga Lanet.dwg

PROJECT: THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA	DRAWING TITLE		DRAW. NO.	PREPARED BY	A.AKBAR
	COUNTY: NAKURU SCHEME: MAXIMIZATION PROJECT SITE: 35429 MUGUGA LANET	NKR-MA-30	CHECKED BY	S.MAETA	
			APPROVED BY	Y.TANAKA	
			DATE	10th SEP 2018	

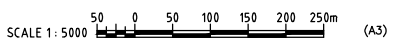




- NOTES:**
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.
 5. POLES NOT SHOWN WHERE PME OR LV EARTH INTERSECT FOR CLARITY.

LEGEND

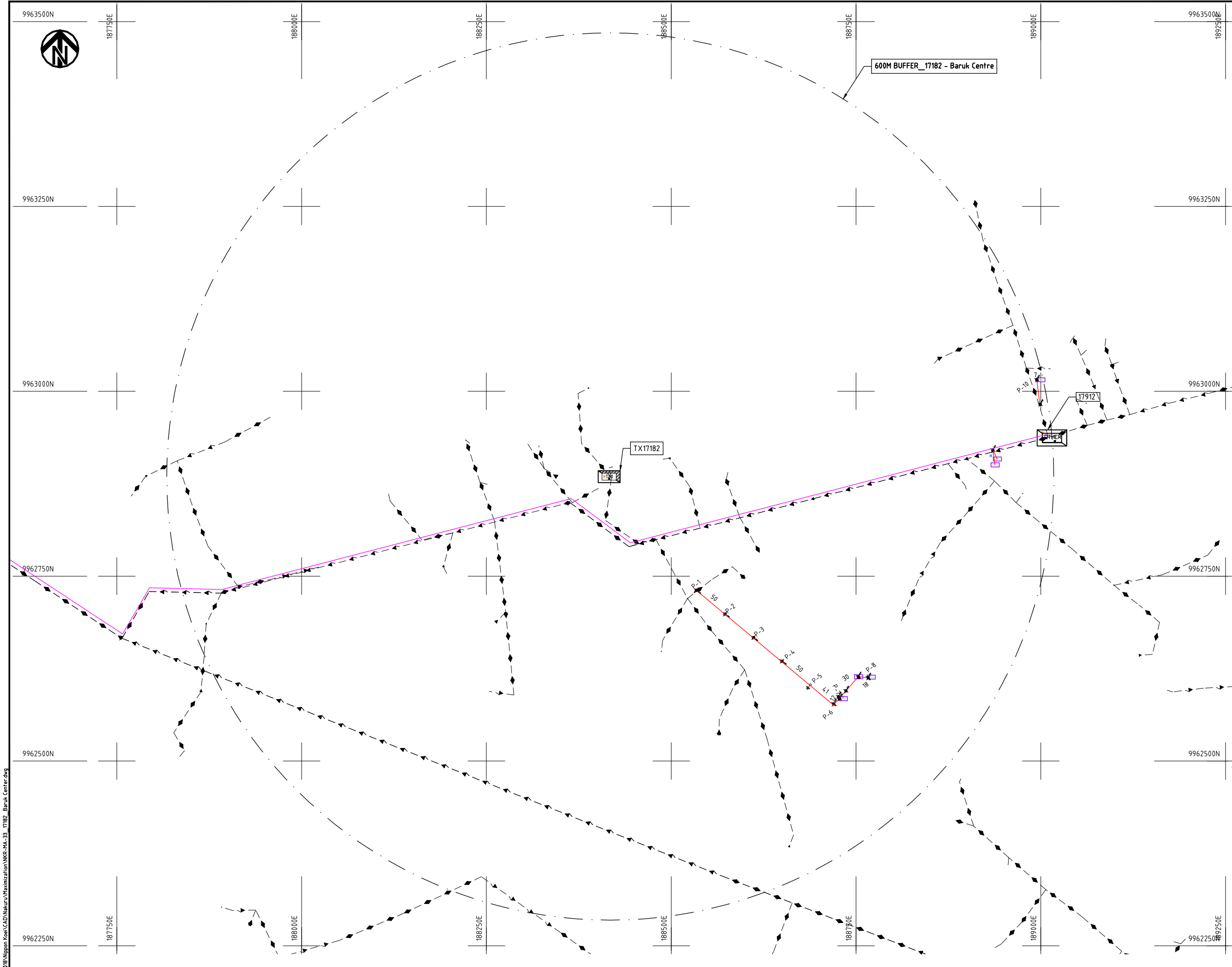
- HOUSEHOLDS/ BUILDINGS
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- OTHER EXISTING TRANSFORMER
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING
- STAY



Cad File No. D:\Frank-Proj\2018\Nippon Koei\CAD\Nakuru\Maximization\NKR-MA-31_18044 - Umoja Muwa.dwg

PROJECT: THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA	DRAWING TITLE		DRAW. NO.	PREPARED BY	A.AKBAR
	COUNTY: NAKURU SCHEME: MAXIMIZATION PROJECT SITE: 18044 - UMOJA MUWA		NKR-MA-31	CHECKED BY	S.MAETA
				APPROVED BY	Y.TANAKA
				DATE	10th SEP 2018





NOTES:

1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.
5. POLES NOT SHOWN WHERE PME OR LV EARTH INTERSECT FOR CLARITY.

LEGEND

- HOUSEHOLDS/ BUILDINGS
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- OTHER EXISTING TRANSFORMER
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING
- STAY

SCALE 1: 5000 0 50 100 150 200 250m (A3)

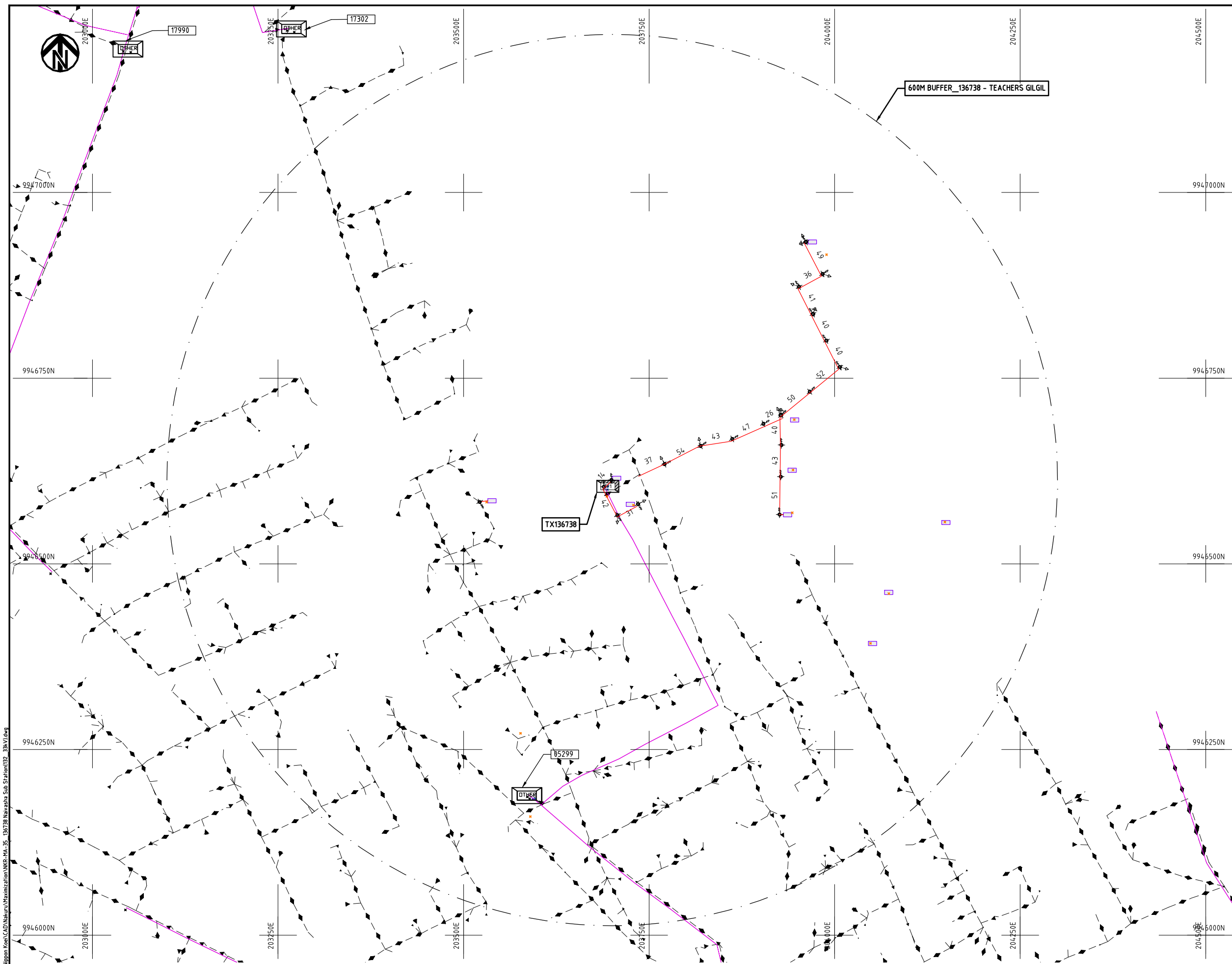
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PROJECT:
THE PREPARATORY SURVEY
ON THE PROJECT FOR IMPROVEMENT
OF POWER DISTRIBUTION SYSTEM
IN THE REPUBLIC OF KENYA

DRAWING TITLE
COUNTY: NAKURU
SCHEME: MAXIMIZATION
PROJECT SITE: 17182-BARUK CENTRE

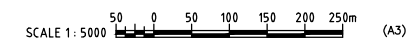
DRAW. NO.	PREPARED BY	A.AKBAR
NKR-MA-33	CHECKED BY	S.MAETA
	APPROVED BY	Y.TANAKA
	DATE	10th SEP 2018

 NIPPON KOEI CO., LTD



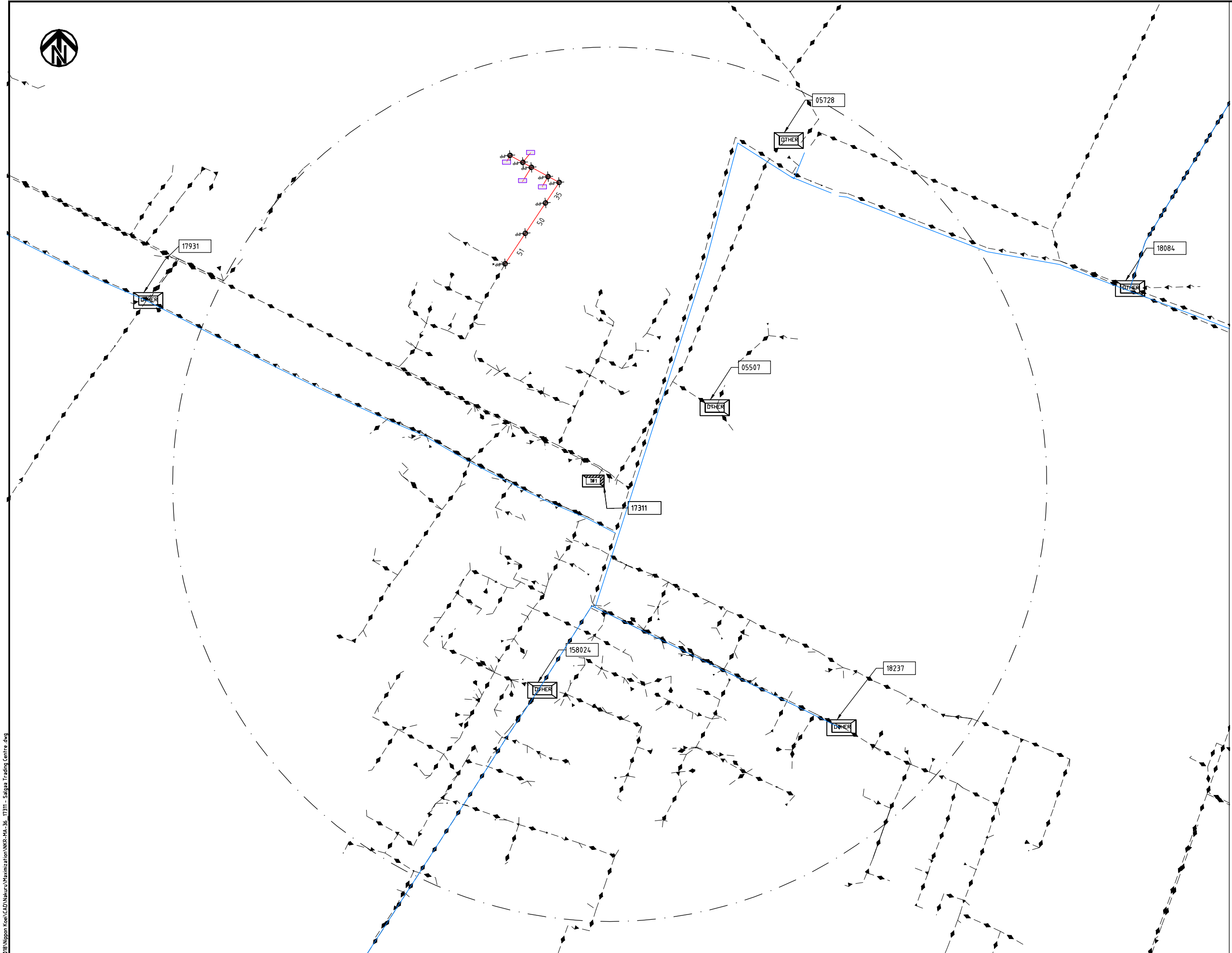
- NOTES:

LEGEND



PROJECT: THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA	DRAWING TITLE		DRAW. NO.	PREPARED BY	A.AKBAR
	COUNTY: NAKURU SCHEME: MAXIMIZATION PROJECT SITE: 136738- Naivasha Sub Station (132_33kV)		NKR-MA-35	CHECKED BY	S.MAETA
				APPROVED BY	Y.TANAKA
				DATE	10th SEP 2018

Cad File No. D:\Frank-Proj\2018\Nippon Koei\CAD\Nakuru\Maximization\NKR-MA-36-17311-Salgaa Trading Centre.dwg



NOTES:

1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.
5. POLES NOT SHOWN WHERE PME OR LV EARTH INTERSECT FOR CLARITY.

LEGEND

- HOUSEHOLDS/ BUILDINGS
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- OTHER EXISTING TRANSFORMER
- PP WOODEN ELECTRIC POLES
- CP CONCRETE ELECTRIC POLES
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING
- STAY

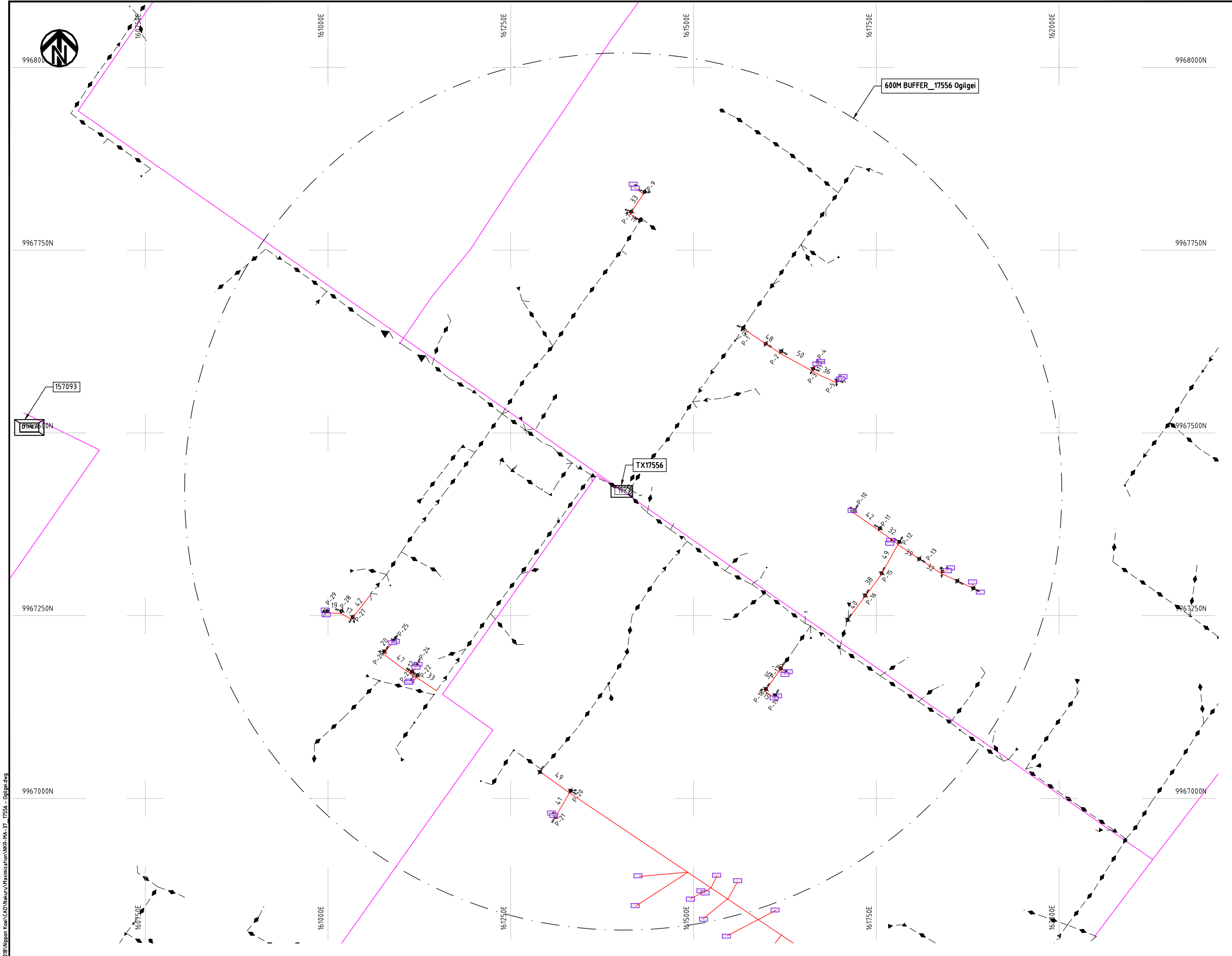
SCALE 1: 5000 (A3)

PROJECT:
THE PREPARATORY SURVEY
ON THE PROJECT FOR IMPROVEMENT
OF POWER DISTRIBUTION SYSTEM
IN THE REPUBLIC OF KENYA

DRAWING TITLE
COUNTY: NAKURU
SCHEME: MAXIMIZATION
PROJECT SITE: 17311-SALGAA TRADING CENTRE

DRAW. NO.	PREPARED BY	A.AKBAR
NKR-MA-36	CHECKED BY	S.MAETA
	APPROVED BY	Y.TANAKA
	DATE	10th SEP 2018

NIPPON KOEI CO., LTD



- NOTES:**
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.
 5. POLES NOT SHOWN WHERE PME OR LV EARTH INTERSECT FOR CLARITY.

- LEGEND**
- HOUSEHOLDS/ BUILDINGS
 - PROPOSED DISTRIBUTION LINE
 - EXISTING 11kV LINE
 - EXISTING 33kV LINE
 - EXISTING DISTRIBUTION LINE
 - MAXIMISATION TRANSFORMER
 - EXTENSION TRANSFORMER
 - OTHER EXISTING TRANSFORMER
 - PP WOODEN ELECTRIC POLES
 - CP CONCRETE ELECTRIC POLES
 - LV-EARTH
 - PME -PROTECTIVE MULTIPLE EARTHING
 - STAY

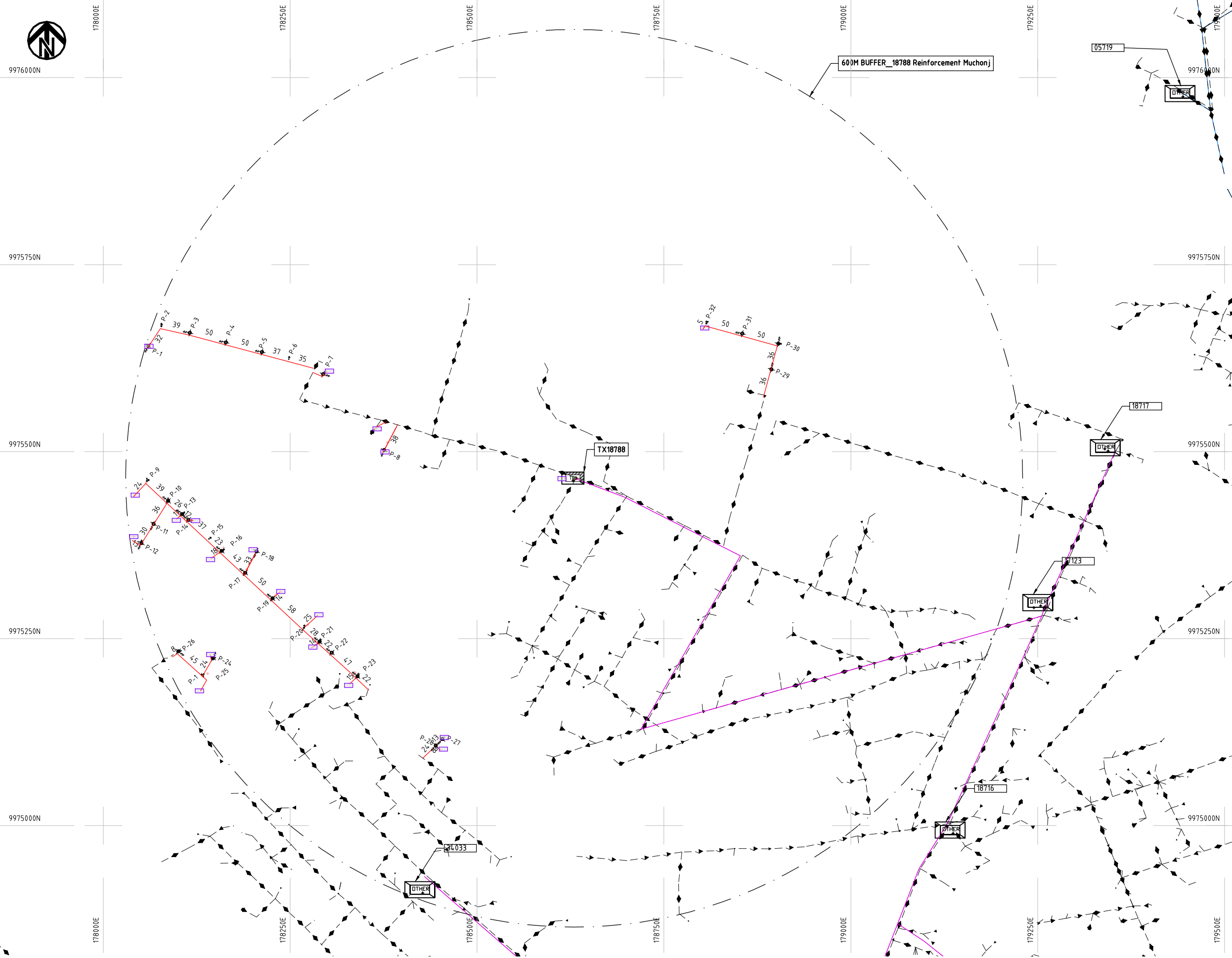
SCALE 1: 5000 (A3)

Cad File No. D:\Frank-Proj\2018\Nippon Koei\CAD\Nakuru\Maximization\NKR-MA-37_17556 - Ogilgei.dwg

PROJECT:	DRAWING TITLE		DRAW. NO.	PREPARED BY	A.AKBAR
	THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA		NKR-MA-37	CHECKED BY	S.MAETA
		COUNTY: NAKURU SCHEME: MAXIMIZATION PROJECT SITE: 17556 - OLGILGEI		APPROVED BY	Y.TANAKA
				DATE	10th SEP 2018



Cad File No. D:\Frank-Proj\2018\Nippon Koei\CAD\Nakuru\Maximization\NKR-MA-38_18788 Reinforcement Muchonjoru Farm Bahati.dwg



NOTES:

1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.
5. POLES NOT SHOWN WHERE PME OR LV EARTH INTERSECT FOR CLARITY.

LEGEND

- HOUSEHOLDS/ BUILDINGS
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- OTHER EXISTING TRANSFORMER
- PP WOODEN ELECTRIC POLES
- CP CONCRETE ELECTRIC POLES
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING
- STAY

SCALE 1:5000 (A3)

PROJECT:

THE PREPARATORY SURVEY
ON THE PROJECT FOR IMPROVEMENT
OF POWER DISTRIBUTION SYSTEM
IN THE REPUBLIC OF KENYA

DRAWING TITLE

COUNTY: NAKURU
SCHEME: MAXIMIZATION
PROJECT SITE: 18788_REINFORCEMENT MUCHONJORU FARM BAHATI

DRAW. NO.

NKR-MA-38

PREPARED BY

A.AKBAR

CHECKED BY

S.MAETA

APPROVED BY

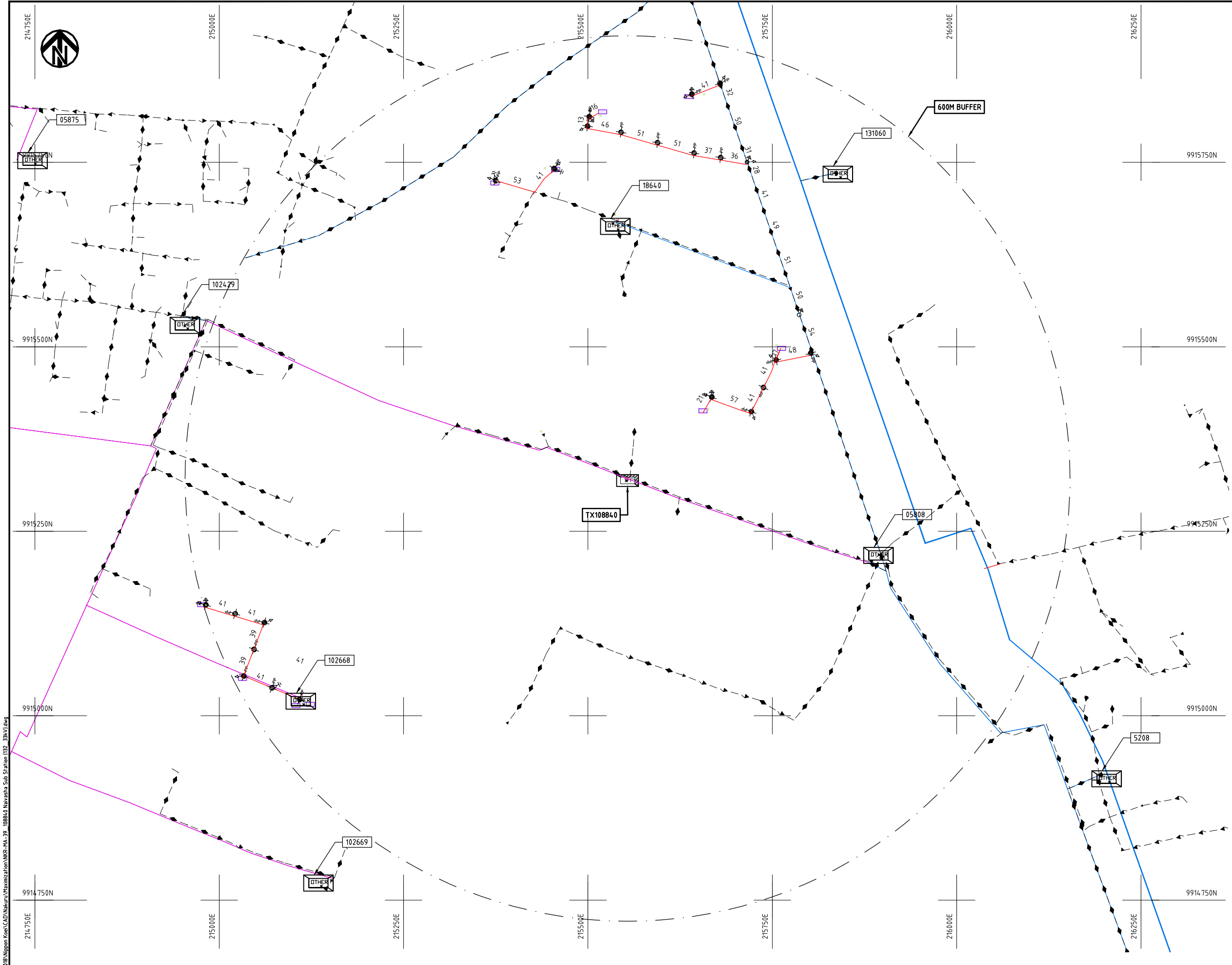
Y.TANAKA

DATE

10th SEP 2018

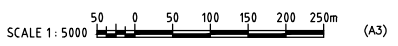


NIPPON KOEI CO., LTD



- NOTES:**
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.
 5. POLES NOT SHOWN WHERE PME OR LV EARTH INTERSECT FOR CLARITY.

- LEGEND**
- HOUSEHOLDS/ BUILDINGS
 - PROPOSED DISTRIBUTION LINE
 - EXISTING 11kV LINE
 - EXISTING 33kV LINE
 - EXISTING DISTRIBUTION LINE
 - MAXIMISATION TRANSFORMER
 - EXTENSION TRANSFORMER
 - OTHER EXISTING TRANSFORMER
 - WOODEN ELECTRIC POLES
 - CONCRETE ELECTRIC POLES
 - LV-EARTH
 - PME -PROTECTIVE MULTIPLE EARTHING
 - STAY

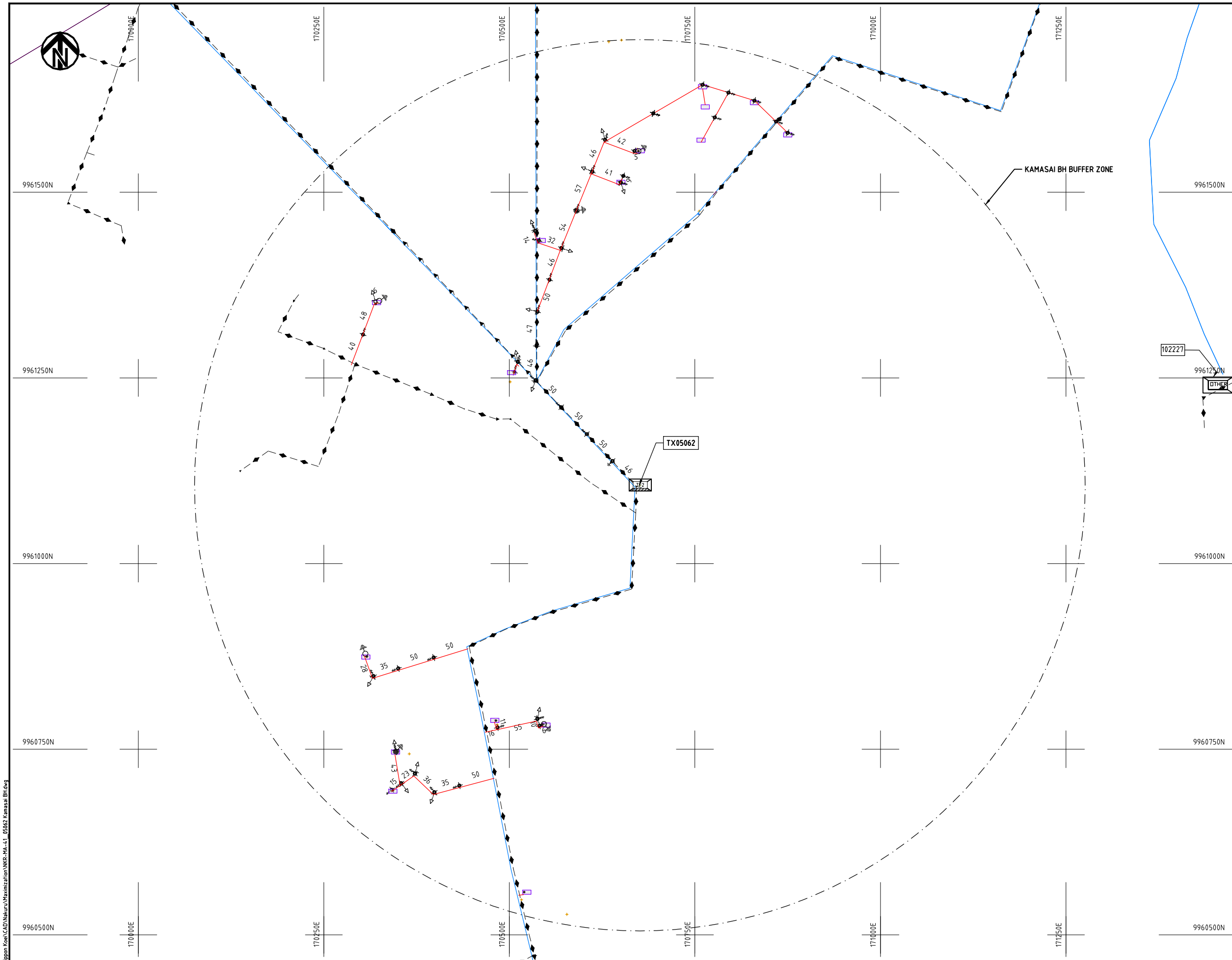


Cad File No. D:\Frank-Proj\2018\Nippon Koei\CAD\Nakuru\Maximization\NKR-MA-39_108840 Naivasha Sub Station (132_33kV).dwg

PROJECT: THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA	DRAWING TITLE		DRAW. NO.	PREPARED BY	A.AKBAR
	COUNTY: NAKURU		NKR-MA-39	CHECKED BY	S.MAETA
	SCHEME: MAXIMIZATION			APPROVED BY	Y.TANAKA
	PROJECT SITE: 108840-Naivasha Sub Station (132__33kV)			DATE	10th SEP 2018



Cad File No. D:\Frank-Proj\2018\Nippon Koei\CAD\Nakuru\Maximization\NKR-MA-41_05062 Kamasai Bldg



NOTES:

1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.
5. POLES NOT SHOWN WHERE PME OR LV EARTH INTERSECT FOR CLARITY.

LEGEND

- HOUSEHOLDS/ BUILDINGS
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- OTHER EXISTING TRANSFORMER
- PP WOODEN ELECTRIC POLES
- CP CONCRETE ELECTRIC POLES
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING
- STAY

SCALE 1: 5000 (A3)

PROJECT:

THE PREPARATORY SURVEY
ON THE PROJECT FOR IMPROVEMENT
OF POWER DISTRIBUTION SYSTEM
IN THE REPUBLIC OF KENYA

DRAWING TITLE

COUNTY: NAKURU
SCHEME: MAXIMIZATION
PROJECT SITE: 05062-KAMASAI BH

DRAW. NO.

NKR-MA-41

PREPARED BY

A.AKBAR

CHECKED BY

S.MAETA

APPROVED BY

Y.TANAKA

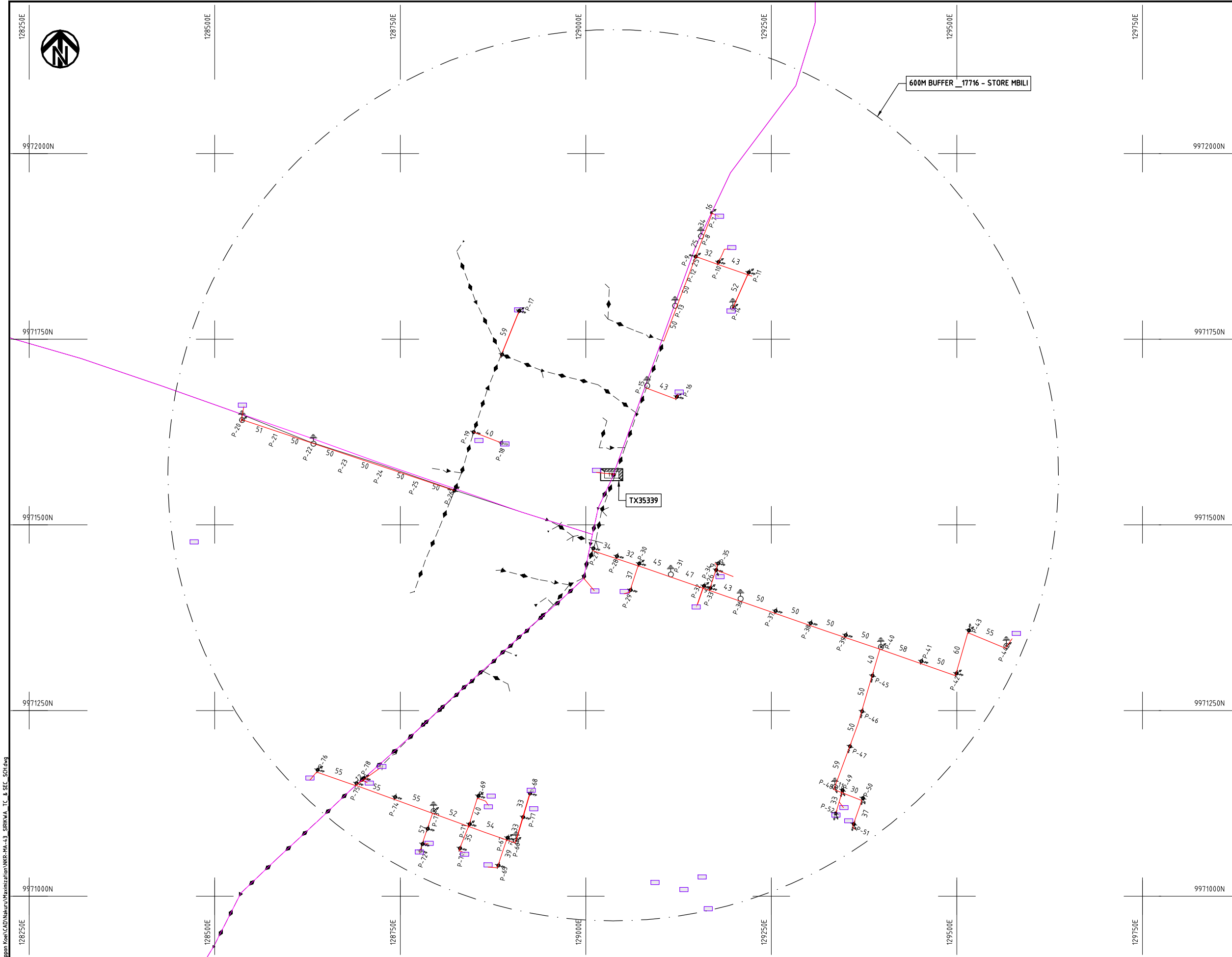
DATE

10th SEP 2018



NIPPON KOEI CO., LTD

Cad File No. D:\Frank-Proj\2018\Nippon Koei\CAD\Nakuru\Maximization\NKR-MA-43_SIRIKWA_TC & SEC_SEC1.dwg



NOTES:

1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.

LEGEND

- HOUSEHOLDS/ BUILDINGS
- PROPOSED 11kV
- PROPOSED 33kV
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- PP WOODEN ELECTRIC POLES
- CP CONCRETE ELECTRIC POLES 12M
- CP CONCRETE ELECTRIC POLES 11M
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING
- STAY

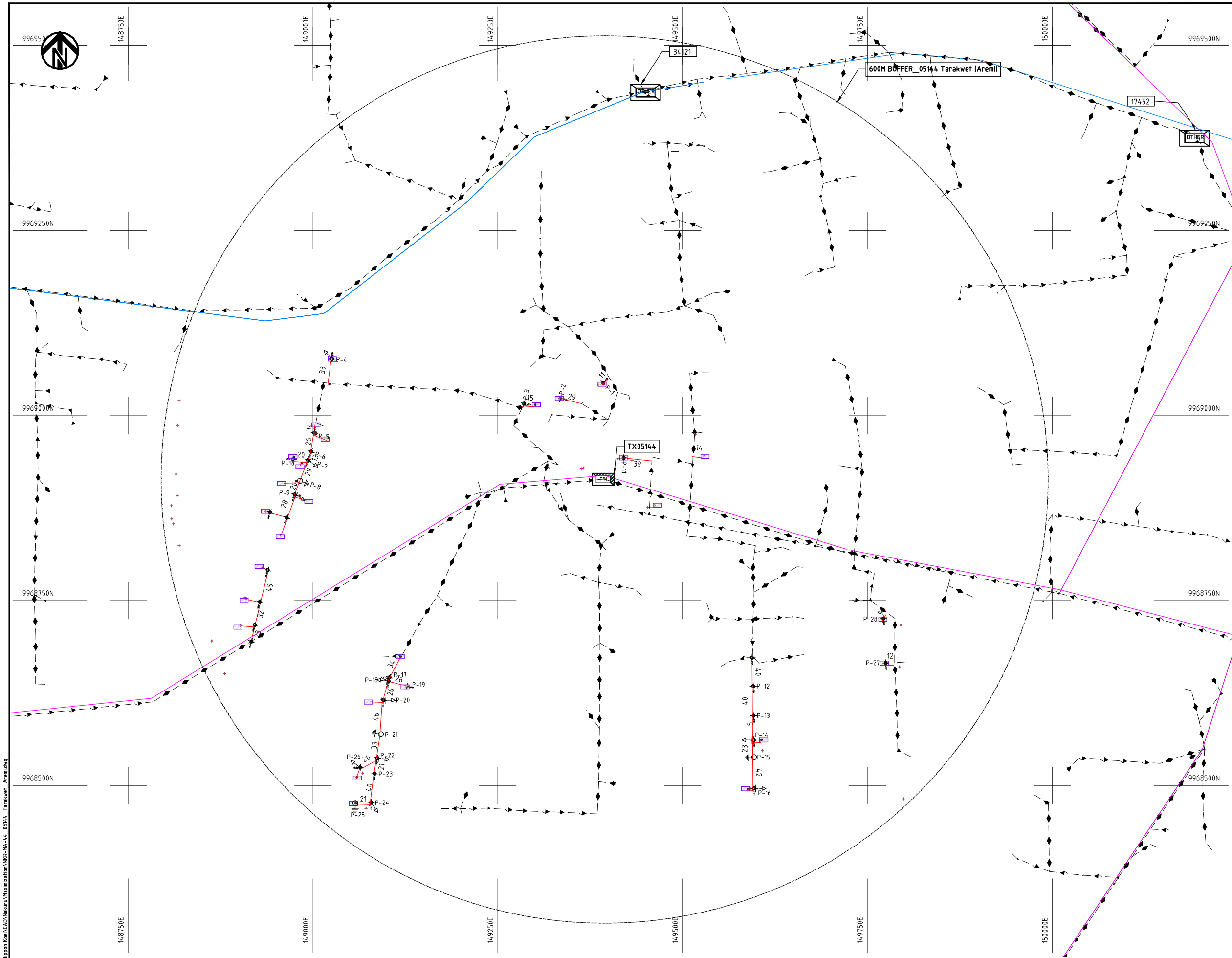
SCALE 1: 5000 (A3)

PROJECT:
**THE PREPARATORY SURVEY
ON THE PROJECT FOR IMPROVEMENT
OF POWER DISTRIBUTION SYSTEM
IN THE REPUBLIC OF KENYA**

DRAWING TITLE
**COUNTY: NAKURU
SCHEME: MAXIMIZATION
PROJECT SITE: 35339-SIRIKWA T/C & SECONDARY SCHOOL**

DRAW. NO.	PREPARED BY	A.AKBAR
NKR-MA-43	CHECKED BY	S.MAETA
	APPROVED BY	Y.TANAKA
	DATE	10th SEP 2018





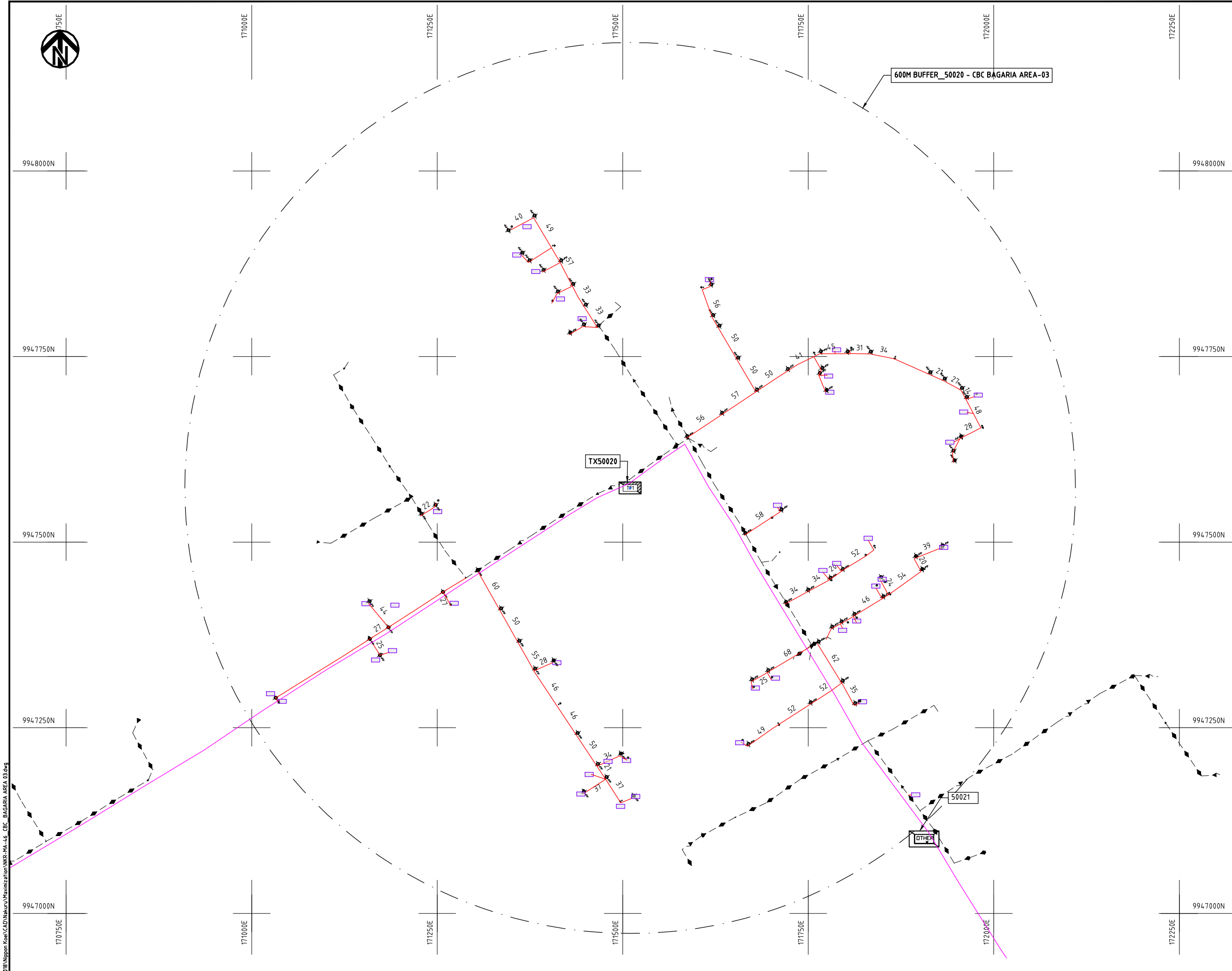
- NOTES:**
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.
 5. POLES NOT SHOWN WHERE PME OR LV EARTH INTERSECT FOR CLARITY.

- LEGEND**
- HOUSEHOLDS/ BUILDINGS
 - PROPOSED DISTRIBUTION LINE
 - EXISTING 11kV LINE
 - EXISTING 33kV LINE
 - EXISTING DISTRIBUTION LINE
 - MAXIMISATION TRANSFORMER
 - EXTENSION TRANSFORMER
 - OTHER EXISTING TRANSFORMER
 - WOODEN ELECTRIC POLES
 - CONCRETE ELECTRIC POLES
 - LV-EARTH
 - PME -PROTECTIVE MULTIPLE EARTHING
 - STAY

SCALE 1: 5000 50 0 50 100 150 200 250m (A3)

Ccd File No: D:\Frank-Proj\	PROJECT: THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA	DRAWING TITLE		DRAW. NO.	PREPARED BY	A.AKBAR
		COUNTY: NAKURU SCHEME: MAXIMIZATION PROJECT SITE: 05144 TARAKWET (AREMI)		NKR-MA-44	CHECKED BY	S.MAETA
					APPROVED BY	Y.TANAKA
					DATE	10th SEP 2018





- NOTES:**
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.

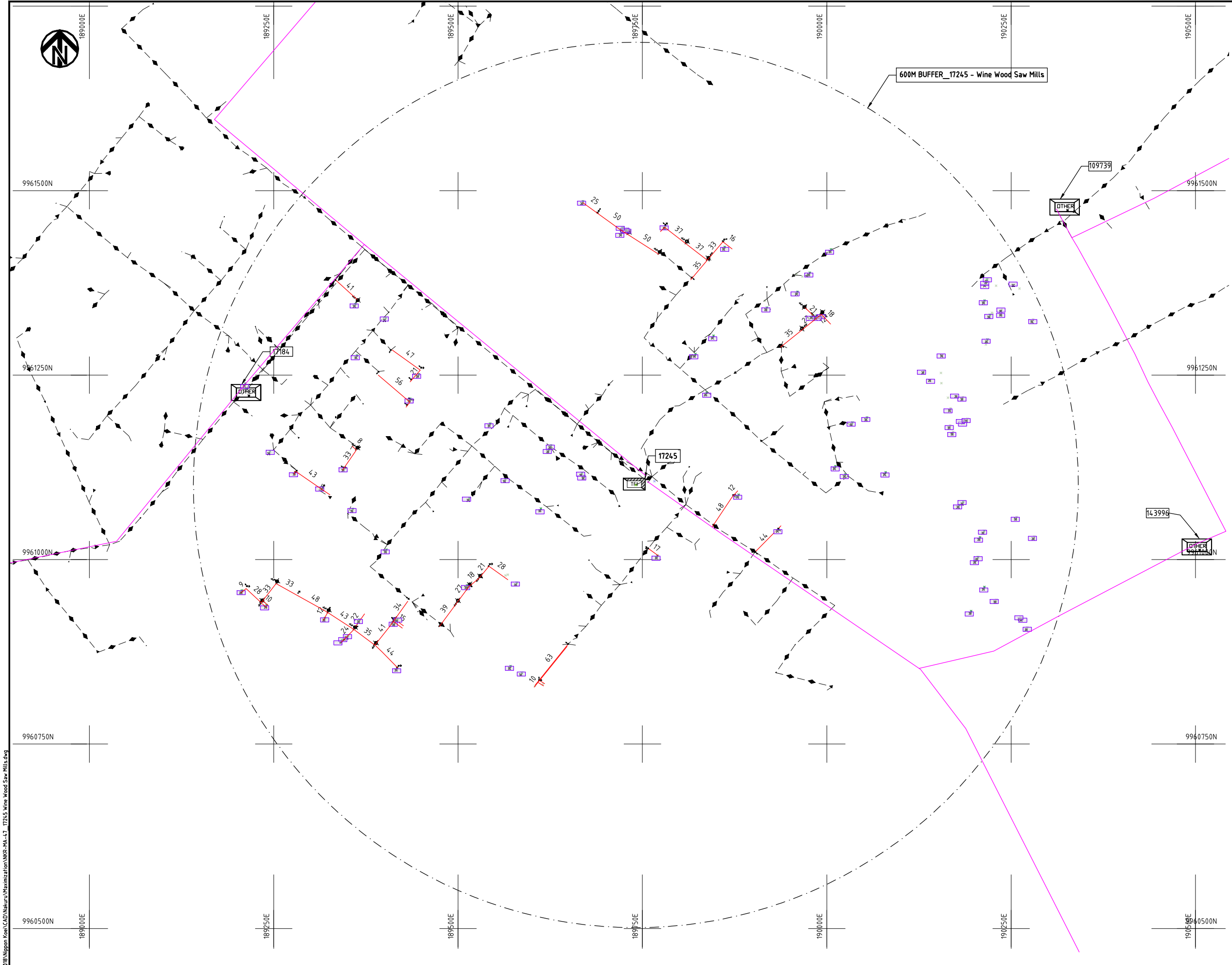
- LEGEND**
- HOUSEHOLDS/ BUILDINGS
 - PROPOSED 11kV
 - PROPOSED 33kV
 - PROPOSED DISTRIBUTION LINE
 - EXISTING 11kV LINE
 - EXISTING 33kV LINE
 - EXISTING DISTRIBUTION LINE
 - MAXIMISATION TRANSFORMER
 - EXTENSION TRANSFORMER
 - WOODEN ELECTRIC POLES
 - CONCRETE ELECTRIC POLES 12M
 - CONCRETE ELECTRIC POLES 11M
 - LV-EARTH
 - PME -PROTECTIVE MULTIPLE EARTHING
 - STAY

SCALE 1: 5000 (A3)

Cad File No. D:\Frank-Proj 2018\Nippon Koei\CAD\Nakuru\Maximization\NKR-MA-46 CBC BAGARIA AREA 03.dwg

PROJECT: THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA	DRAWING TITLE		DRAW. NO.	PREPARED BY	A.AKBAR
	COUNTY: NAKURU SCHEME: MAXIMIZATION PROJECT SITE: 50020-C.B.C BAGARIA AREA 03		NKR-MA-46	CHECKED BY	S.MAETA
				APPROVED BY	Y.TANAKA
				DATE	10th SEP 2018





NOTES:

1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.
5. POLES NOT SHOWN WHERE PME OR LV EARTH INTERSECT FOR CLARITY.

LEGEND

- HOUSEHOLDS/ BUILDINGS
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- OTHER EXISTING TRANSFORMER
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING
- STAY

SCALE 1: 5000 50 0 50 100 150 200 250m (A3)

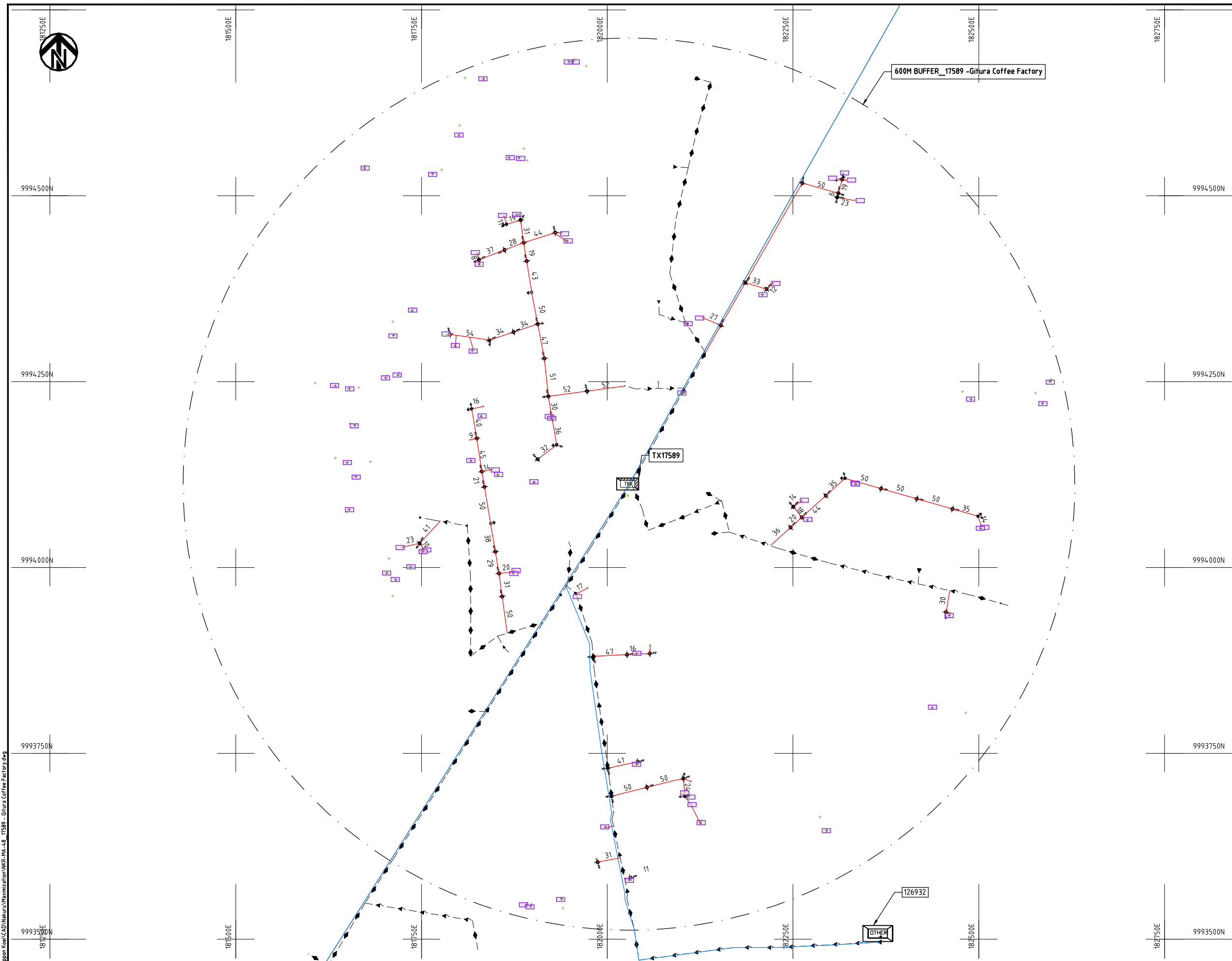
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PROJECT:
THE PREPARATORY SURVEY
ON THE PROJECT FOR IMPROVEMENT
OF POWER DISTRIBUTION SYSTEM
IN THE REPUBLIC OF KENYA

DRAWING TITLE
COUNTY: NAKURU
SCHEME: MAXIMIZATION
PROJECT SITE: 17245-WINE WOOD SAW MILLS

DRAW. NO.	PREPARED BY	A.AKBAR
NKR-MA-47	CHECKED BY	S.MAETA
	APPROVED BY	Y.TANAKA
	DATE	10th SEP 2018





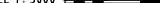
NOTES:

1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.
5. POLES NOT SHOWN WHERE PME OR LV EARTH INTERSECT FOR CLARITY.

LEGEND

- | | |
|---|-----------------------------------|
|  | HOUSEHOLDS/ BUILDINGS |
|  | PROPOSED DISTRIBUTION LINE |
|  | EXISTING 11kV LINE |
|  | EXISTING 33kV LINE |
|  | EXISTING DISTRIBUTION LINE |
|  | MAXIMISATION TRANSFORMER |
|  | EXTENSION TRANSFORMER |
|  | OTHER EXISTING TRANSFORMER |
|  | WOODEN ELECTRIC POLES |
|  | CONCRETE ELECTRIC POLES |
|  | LV-EARTH |
|  | PME -PROTECTIVE MULTIPLE EARTHING |
|  | STAY |

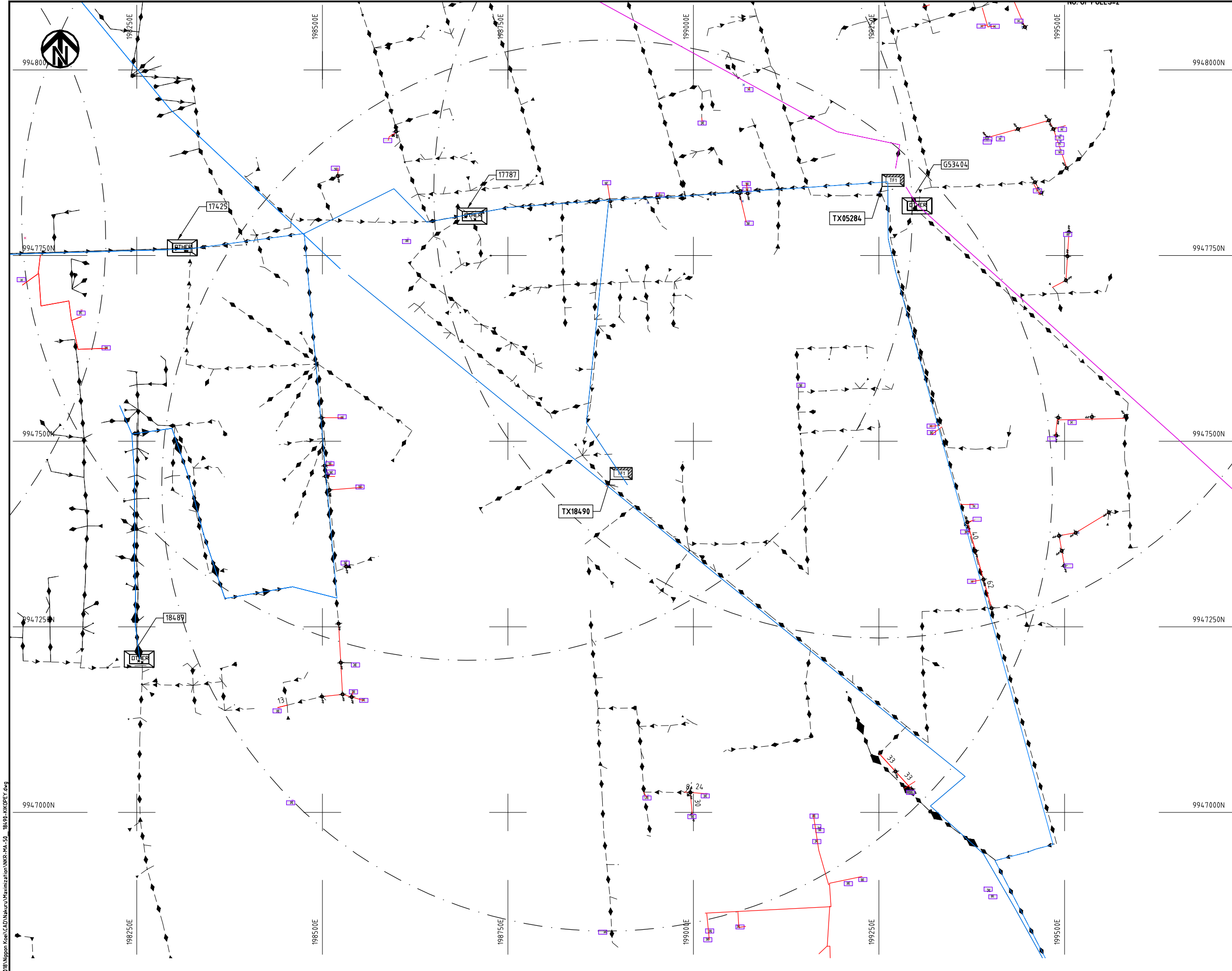
SCALE 1: 5000



(A3)

PROJECT: THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA	DRAWING TITLE		DRAW. NO.	PREPARED BY	A.AKBAR
	COUNTY: NAKURU SCHEME: MAXIMIZATION PROJECT SITE: 17589 - GITURA COFFE FACTORY		NKR-MA-48	CHECKED BY	S.MAETA
				APPROVED BY	Y.TANAKA
				DATE	10th SEP 2018





NOTES:

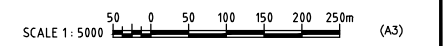
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.
5. POLES NOT SHOWN WHERE PME OR LV EARTH INTERSECT FOR CLARITY.

LOCAL TX_GILGIL S/S
NO NAME
KIKOPEY
KIKOPEY

KEY PLAN

LEGEND

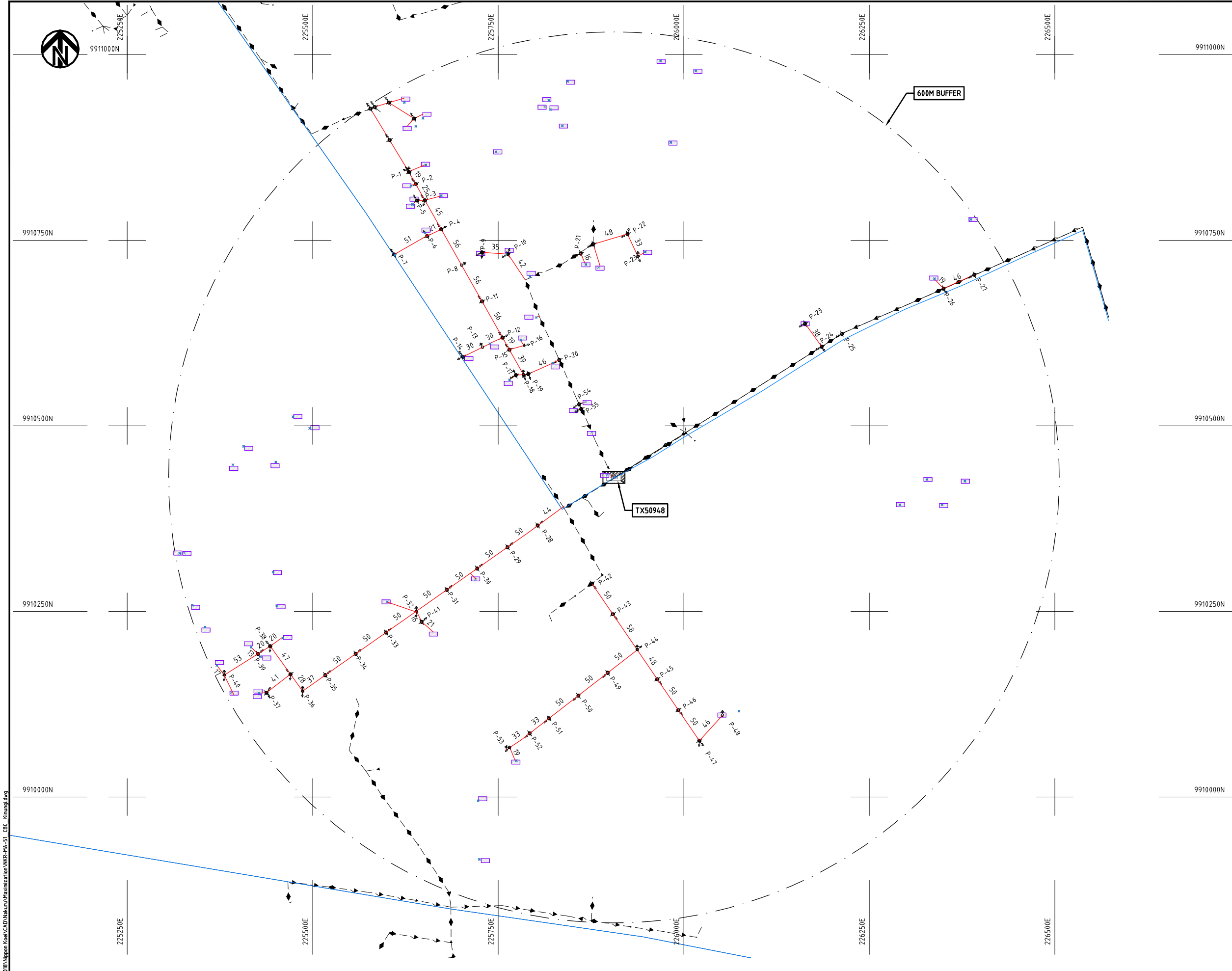
- HOUSEHOLDS/ BUILDINGS
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- OTHER EXISTING TRANSFORMER
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING
- STAY



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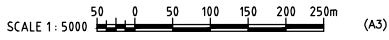
	PROJECT: THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA	DRAWING TITLE		DRAW. NO.	PREPARED BY	A.AKBAR
		COUNTY: NAKURU SCHEME: MAXIMIZATION PROJECT SITE: 18490-KIKOPEY		NKR-MA-50	CHECKED BY	S.MAETA
					APPROVED BY	Y.TANAKA
					DATE	10th SEP 2018





- NOTES:**
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.
 5. POLES NOT SHOWN WHERE PME OR LV EARTH INTERSECT FOR CLARITY.

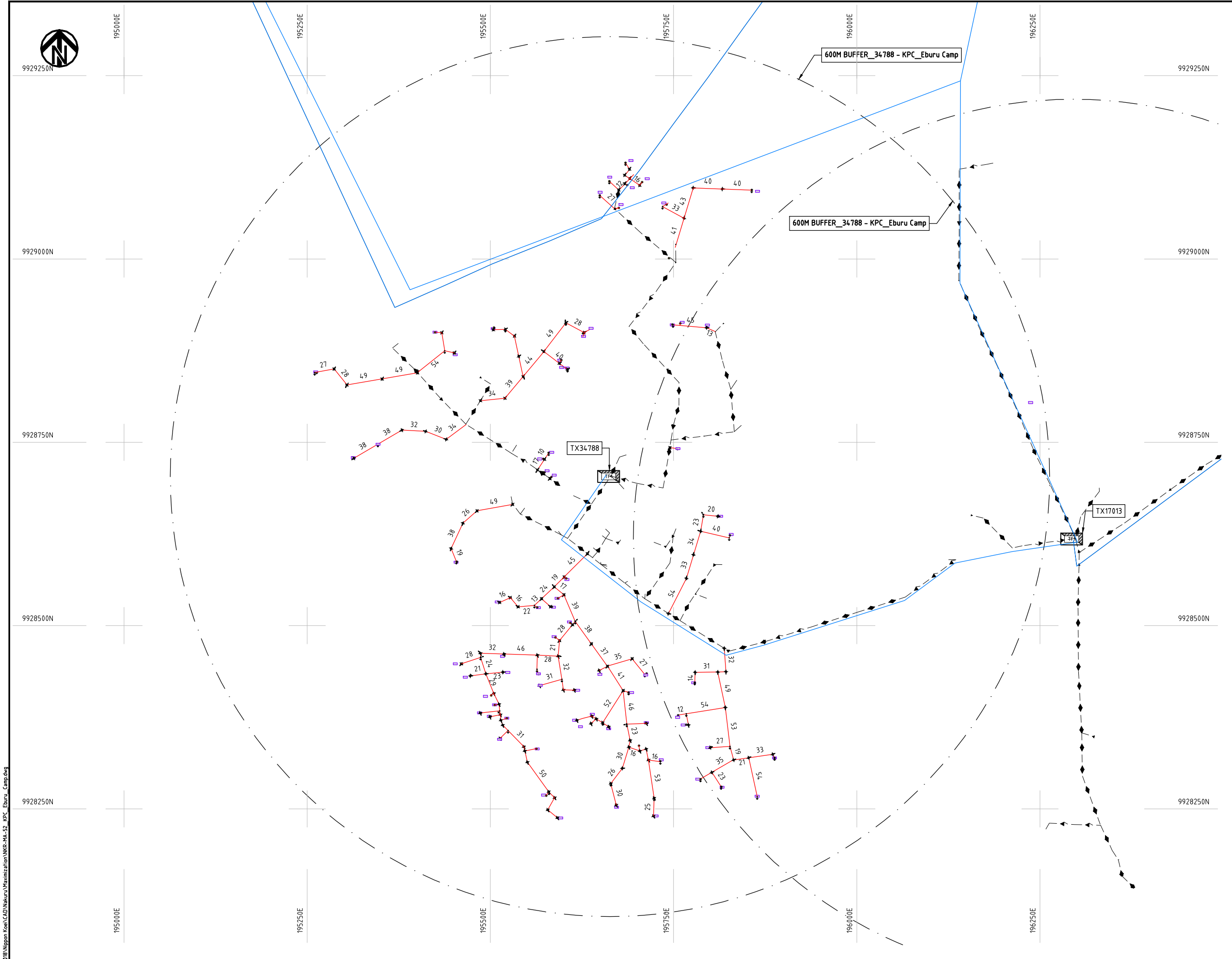
- LEGEND**
- HOUSEHOLDS/ BUILDINGS
 - PROPOSED DISTRIBUTION LINE
 - EXISTING 11kV LINE
 - EXISTING 33kV LINE
 - EXISTING DISTRIBUTION LINE
 - MAXIMISATION TRANSFORMER
 - EXTENSION TRANSFORMER
 - OTHER EXISTING TRANSFORMER
 - WOODEN ELECTRIC POLES
 - CONCRETE ELECTRIC POLES
 - LV-EARTH
 - PME -PROTECTIVE MULTIPLE EARTHING
 - STAY



Cad File No. D:\Frank-Proj 2018\Nippon Koei\CAD\Nakuru\Maximization\NKR-MA-51_CBC_Kinungi.dwg

PROJECT: THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA	DRAWING TITLE		DRAW. NO.	PREPARED BY	A.AKBAR
	COUNTY: NAKURU		NKR-MA-51	CHECKED BY	S.MAETA
	SCHEME: MAXIMIZATION			APPROVED BY	Y.TANAKA
	PROJECT SITE: 50948-CBC KINUNGI			DATE	10th SEP 2018





- NOTES:**
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.

- LEGEND**
- HOUSEHOLDS/ BUILDINGS
 - PROPOSED 11kV
 - PROPOSED 33kV
 - PROPOSED DISTRIBUTION LINE
 - EXISTING 11kV LINE
 - EXISTING 33kV LINE
 - EXISTING DISTRIBUTION LINE
 - MAXIMISATION TRANSFORMER
 - EXTENSION TRANSFORMER
 - WOODEN ELECTRIC POLES
 - CONCRETE ELECTRIC POLES 12M
 - CONCRETE ELECTRIC POLES 11M
 - LV-EARTH
 - PME -PROTECTIVE MULTIPLE EARTHING
 - STAY

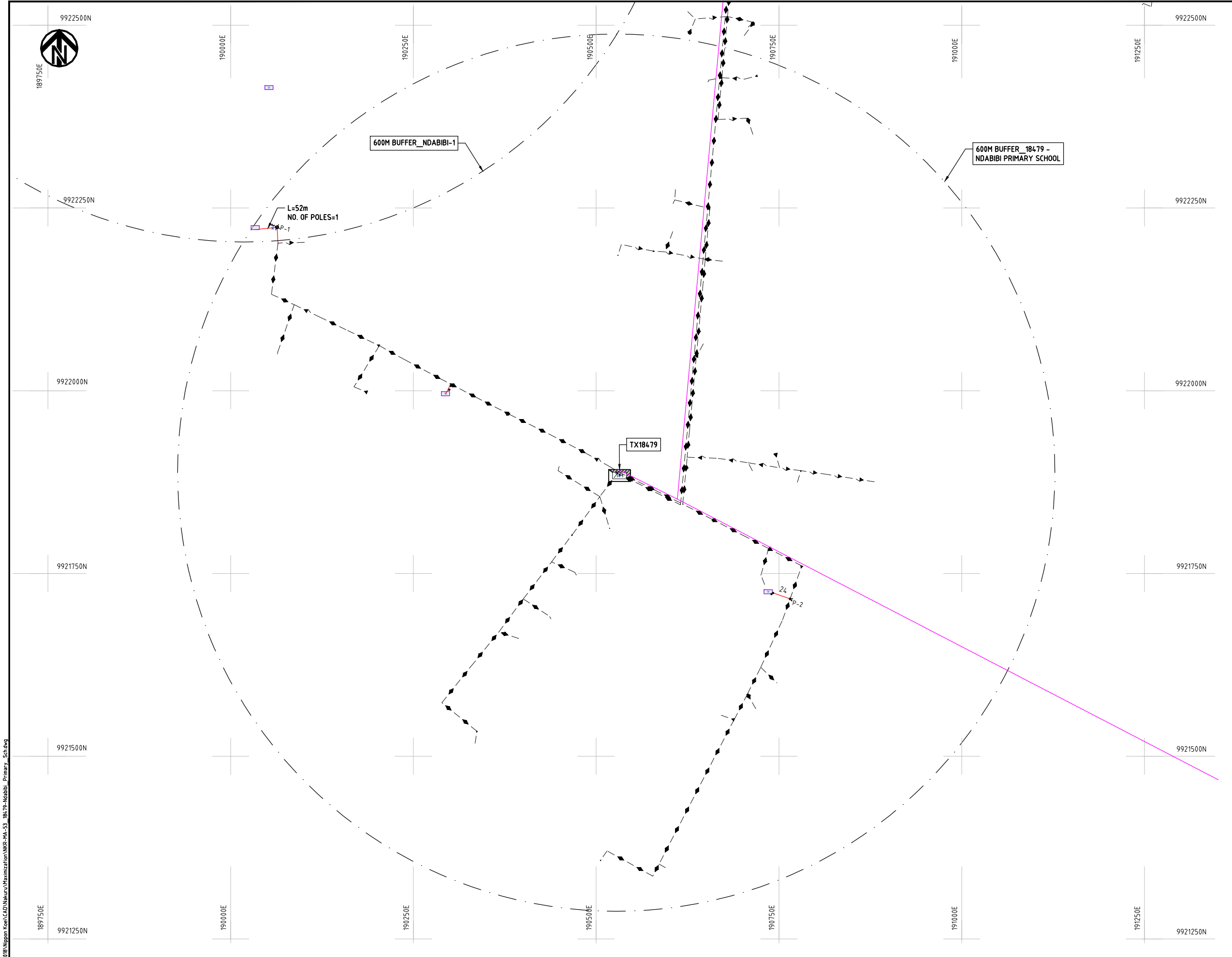
SCALE 1: 5000

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PROJECT:	DRAWING TITLE		DRAW. NO.		PREPARED BY	A.AKBAR
			NKR-MA-52		CHECKED BY	S.MAETA
	COUNTY: NAKURU SCHEME: MAXIMIZATION PROJECT SITE: 34788-K.P.C EBURU CAMP				APPROVED BY	Y.TANAKA
					DATE	10th SEP 2018



Cad File No. D:\Frank-Proj\2018\Nippon Koei\CAD\Nakuru\Maximization\NKR-MA-53_18479-NDabibi_Primary_Sch.dwg



NOTES:

1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.
5. POLES NOT SHOWN WHERE PME OR LV EARTH INTERSECT FOR CLARITY.

LEGEND

- HOUSEHOLDS/ BUILDINGS
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- OTHER EXISTING TRANSFORMER
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING
- STAY

SCALE 1: 5000 50 0 50 100 150 200 250m (A3)

PROJECT:

THE PREPARATORY SURVEY
ON THE PROJECT FOR IMPROVEMENT
OF POWER DISTRIBUTION SYSTEM
IN THE REPUBLIC OF KENYA

DRAWING TITLE

COUNTY: NAKURU
SCHEME: MAXIMIZATION
PROJECT SITE: 18479-NDABIBI PRIMARY SCHOOL

DRAW. NO.

NKR-MA-53

PREPARED BY

A.AKBAR

CHECKED BY

S.MAETA

APPROVED BY

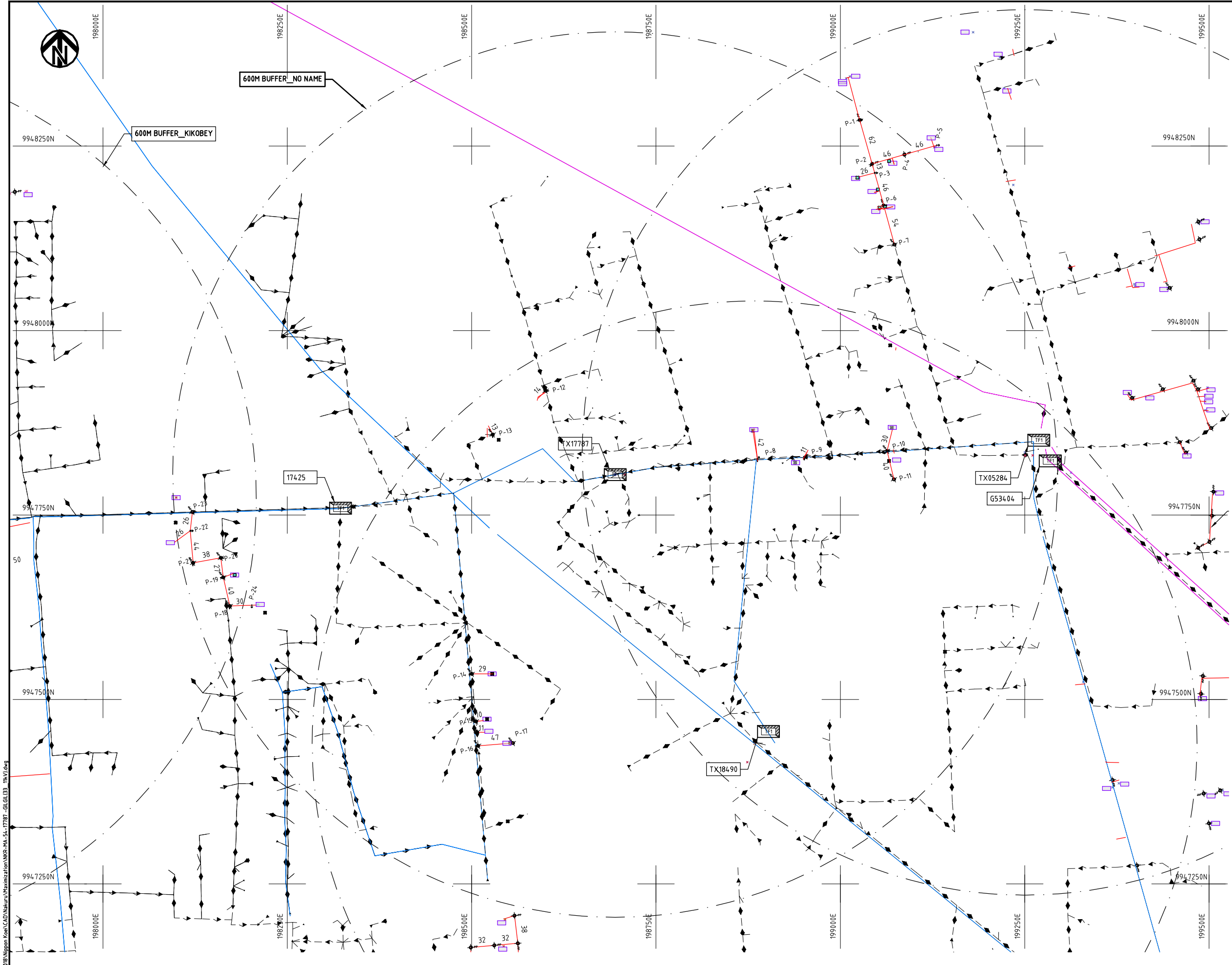
Y.TANAKA

DATE

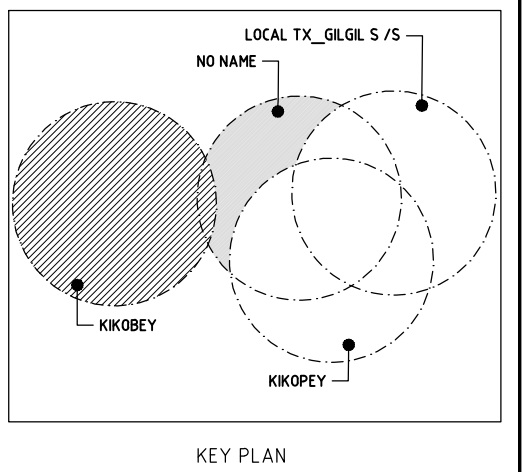
10th SEP 2018



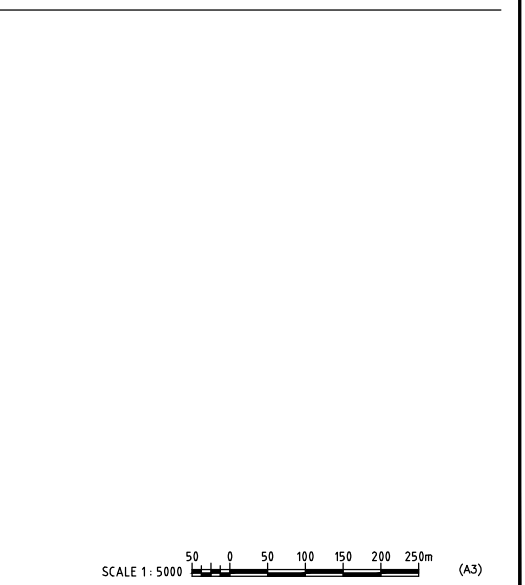
NIPPON KOEI CO., LTD



- NOTES:**
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.



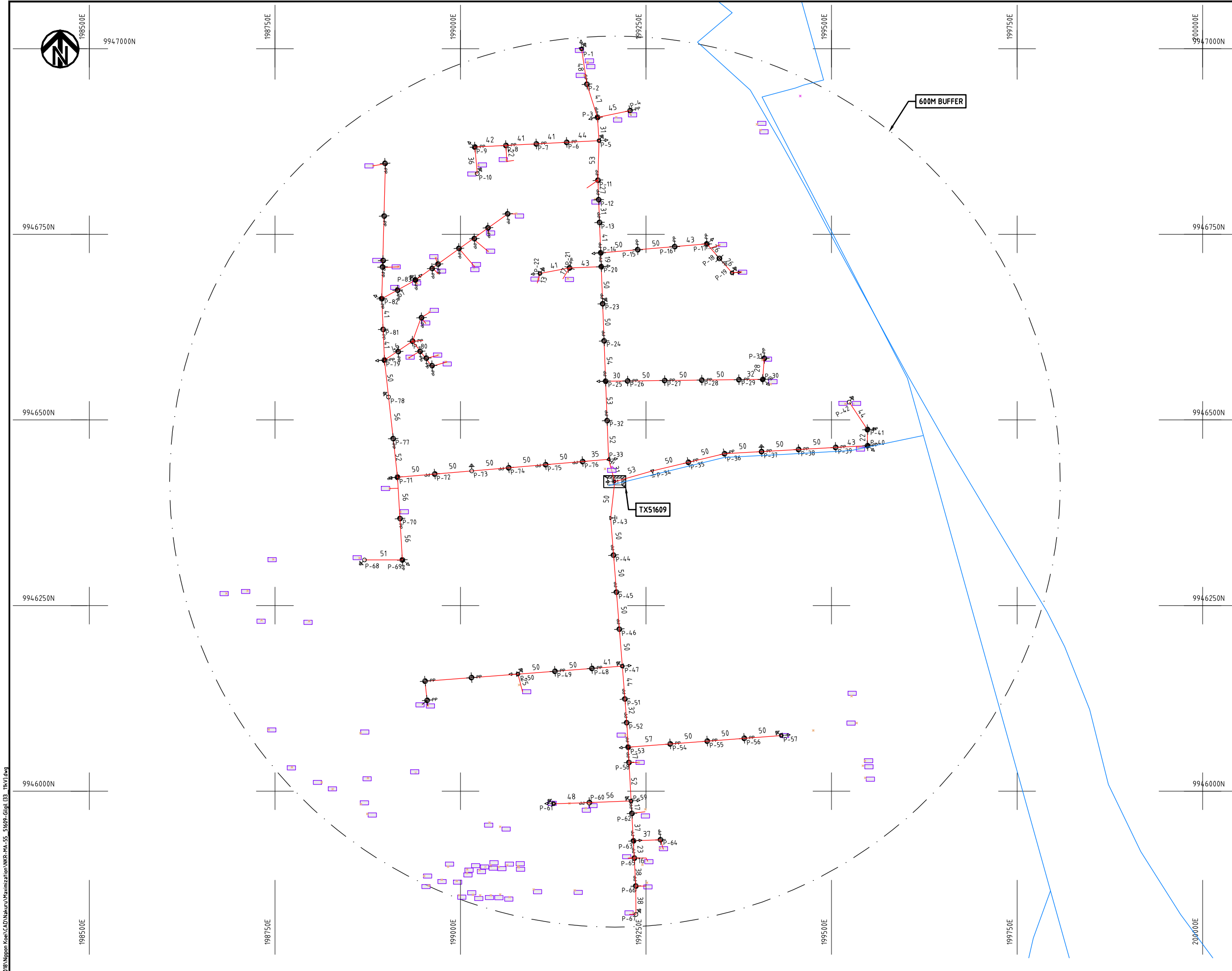
- LEGEND**
- HOUSEHOLDS/ BUILDINGS
 - PROPOSED 11kV
 - PROPOSED 33kV
 - PROPOSED DISTRIBUTION LINE
 - EXISTING 11kV LINE
 - EXISTING 33kV LINE
 - EXISTING DISTRIBUTION LINE
 - MAXIMISATION TRANSFORMER
 - EXTENSION TRANSFORMER
 - WOODEN ELECTRIC POLES
 - CONCRETE ELECTRIC POLES 12M
 - CONCRETE ELECTRIC POLES 11M
 - LV-EARTH
 - PME -PROTECTIVE MULTIPLE EARTHING
 - STAY



Ccd File No. D:\Frank-Proj\201	PROJECT: THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA	DRAWING TITLE		DRAW. NO.	PREPARED BY	A.AKBAR	
		COUNTY: NAKURU SCHEME: MAXIMIZATION PROJECT SITE: 17787-GILGIL (33__11kV)		NKR-MA-54	CHECKED BY	S.MAETA	
					APPROVED BY	Y.TANAKA	
					DATE		10th SEP 2018



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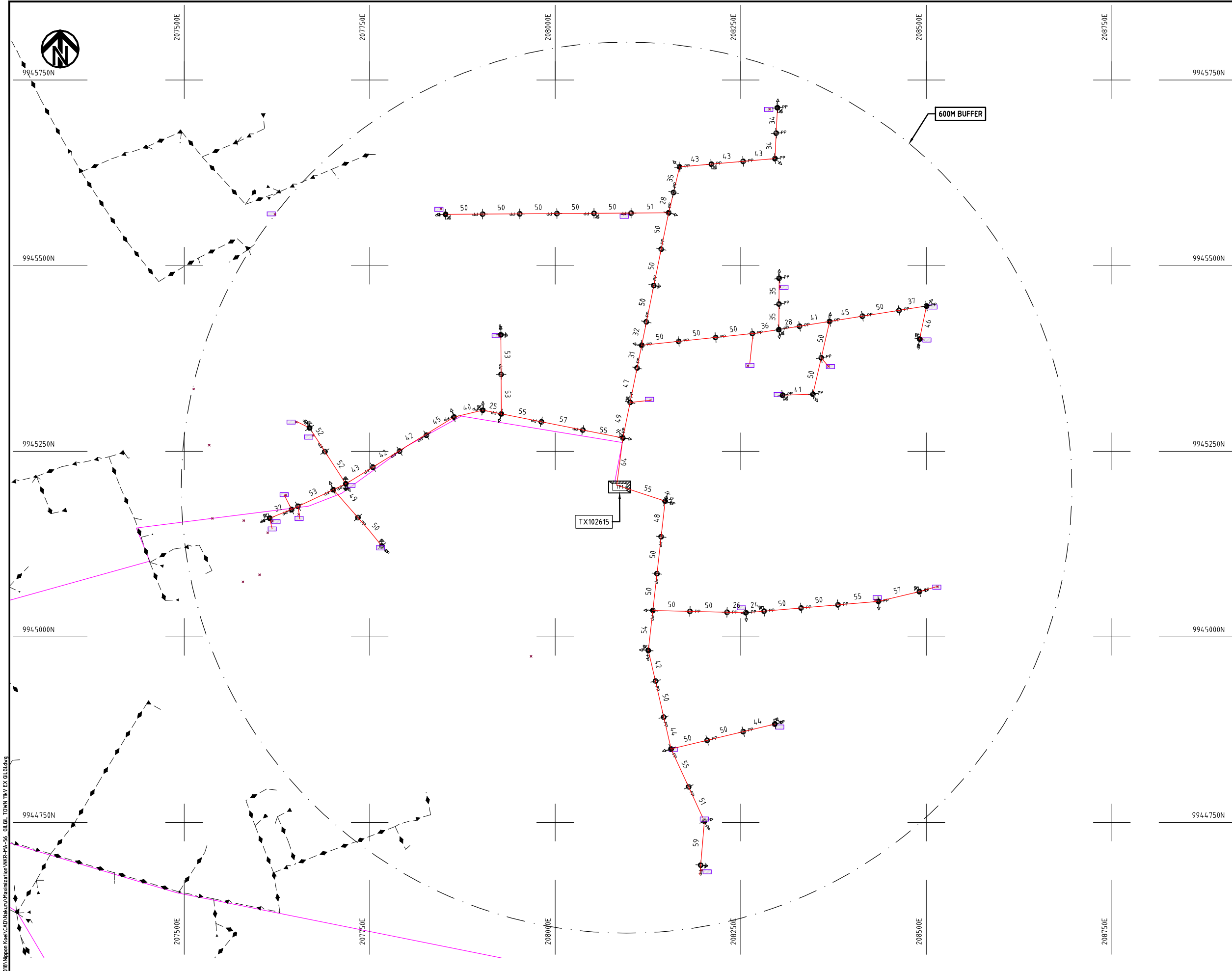
- NOTES:**
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.
 5. POLES NOT SHOWN WHERE PME OR LV EARTH INTERSECT FOR CLARITY.

- LEGEND**
- HOUSEHOLDS/ BUILDINGS
 - PROPOSED DISTRIBUTION LINE
 - EXISTING 11kV LINE
 - EXISTING 33kV LINE
 - EXISTING DISTRIBUTION LINE
 - MAXIMISATION TRANSFORMER
 - EXTENSION TRANSFORMER
 - OTHER EXISTING TRANSFORMER
 - WOODEN ELECTRIC POLES
 - CONCRETE ELECTRIC POLES
 - LV-EARTH
 - PME -PROTECTIVE MULTIPLE EARTHING
 - STAY

Cad File No. D:\Frank-Proj\2018\Nippon Koei\CAD\Nakuru\Maximization\NKR-MA-55_51609-Gilgil_03_11kV.dwg

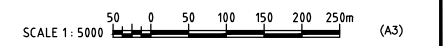
PROJECT: THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA	DRAWING TITLE		DRAW. NO.	PREPARED BY	A.AKBAR
	COUNTY: NAKURU		NKR-MA-55	CHECKED BY	S.MAETA
	SCHEME: MAXIMIZATION			APPROVED BY	Y.TANAKA
	PROJECT SITE: 51609-Gilgil(33__11kV)			DATE	10th SEP 2018





- NOTES:**
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.
 5. POLES NOT SHOWN WHERE PME OR LV EARTH INTERSECT FOR CLARITY.

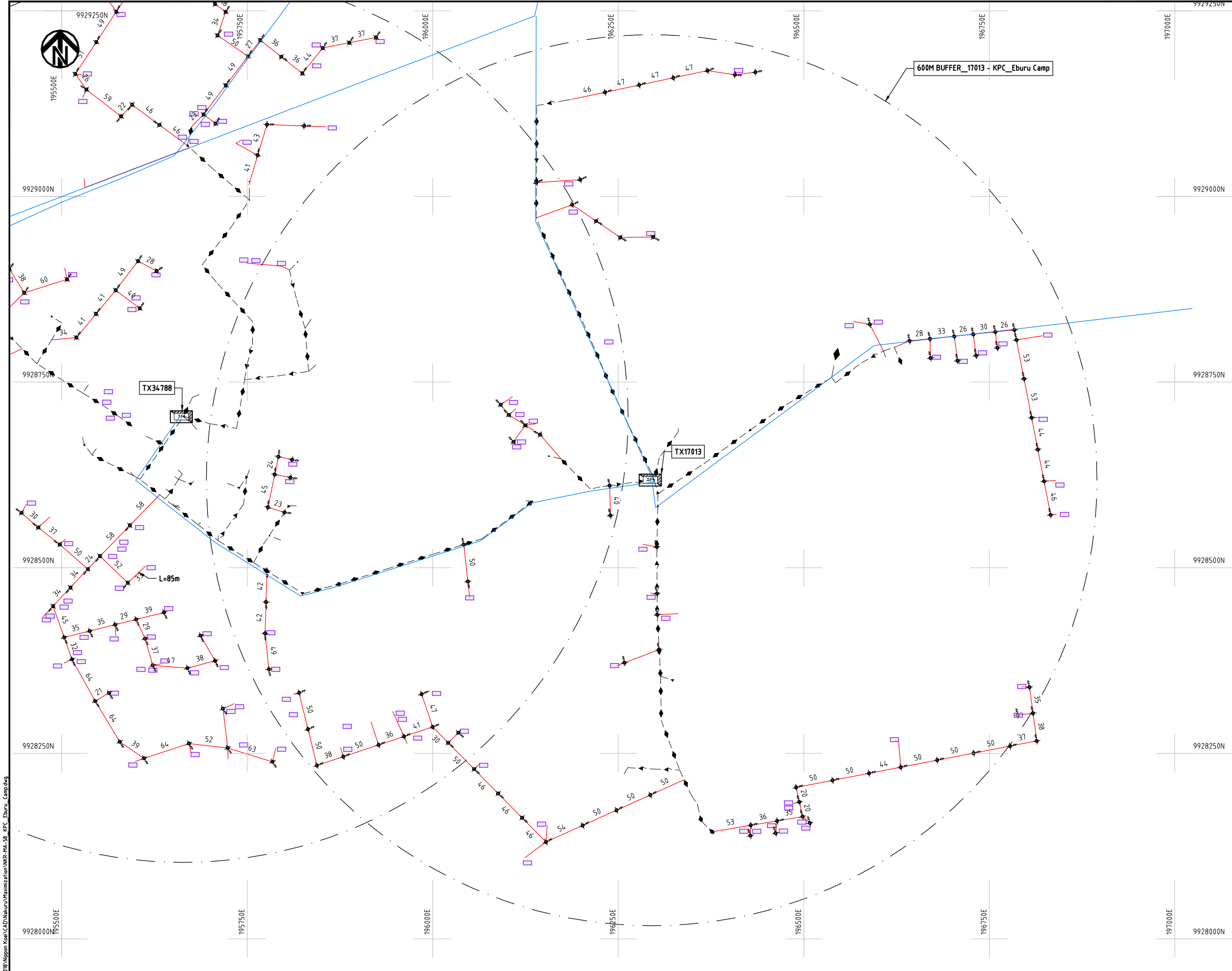
- LEGEND**
- HOUSEHOLDS/ BUILDINGS
 - PROPOSED DISTRIBUTION LINE
 - EXISTING 11kV LINE
 - EXISTING 33kV LINE
 - EXISTING DISTRIBUTION LINE
 - MAXIMISATION TRANSFORMER
 - EXTENSION TRANSFORMER
 - OTHER EXISTING TRANSFORMER
 - WOODEN ELECTRIC POLES
 - CONCRETE ELECTRIC POLES
 - LV-EARTH
 - PME -PROTECTIVE MULTIPLE EARTHING
 - STAY



Cad File No. D:\Frank-Proj\2018\Nippon Koei\CAD\Nakuru\Maximization\NKR-MA-56_GILGIL TOWN 11kV EX GILGI.dwg

PROJECT:	DRAWING TITLE		DRAW. NO.	PREPARED BY	A.AKBAR
	COUNTY: NAKURU SCHEME: MAXIMIZATION PROJECT SITE: 102615-GILGIL TOWN 11kV EX GILGI		NKR-MA-56	CHECKED BY	S.MAETA
THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA				APPROVED BY	Y.TANAKA
				DATE	10th SEP 2018

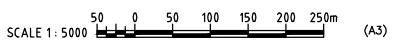




- NOTES:**
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.

LEGEND

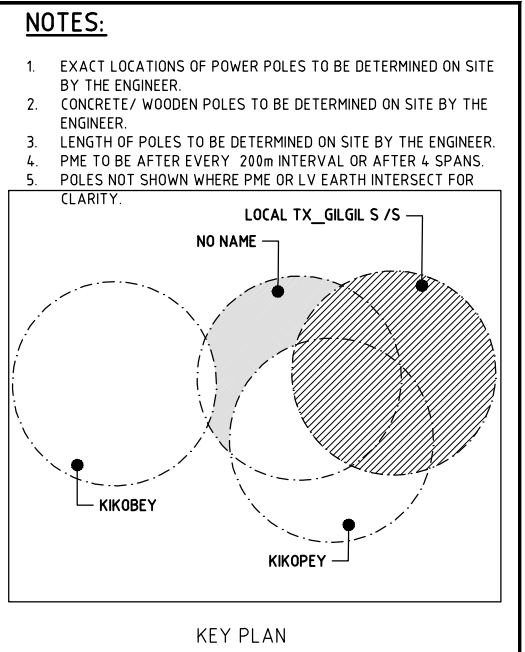
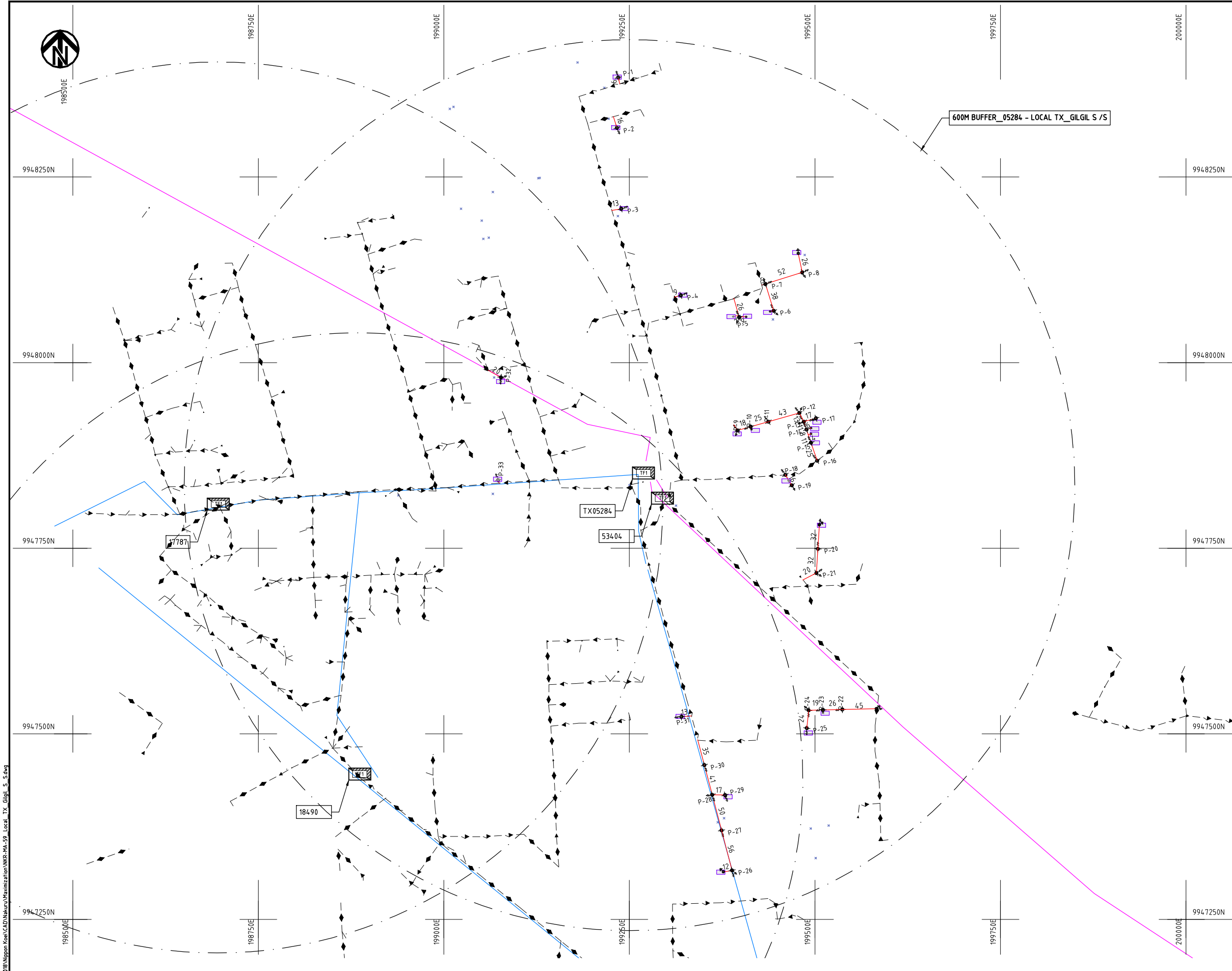
- HOUSEHOLDS/ BUILDINGS
- PROPOSED 11kV
- PROPOSED 33kV
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES 12M
- CONCRETE ELECTRIC POLES 11M
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING
- STAY



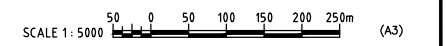
Cd File No. DA/Frank-Proj/2018	PROJECT: THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA	DRAWING TITLE		DRAW. NO.	PREPARED BY	A.AKBAR
		COUNTY: NAKURU SCHEME: MAXIMIZATION PROJECT SITE: 17013-K.P.C EBURU CAMP		NKR-MA-58	CHECKED BY	S.MAETA
					APPROVED BY	Y.TANAKA
					DATE	10th SEP 2018



Cad File No. D:\Frank-Proj 2018\Nippon Koei\CAD\Nakuru\Maximization\NKR-MA-58_KPC_Eburu_Camp.dwg



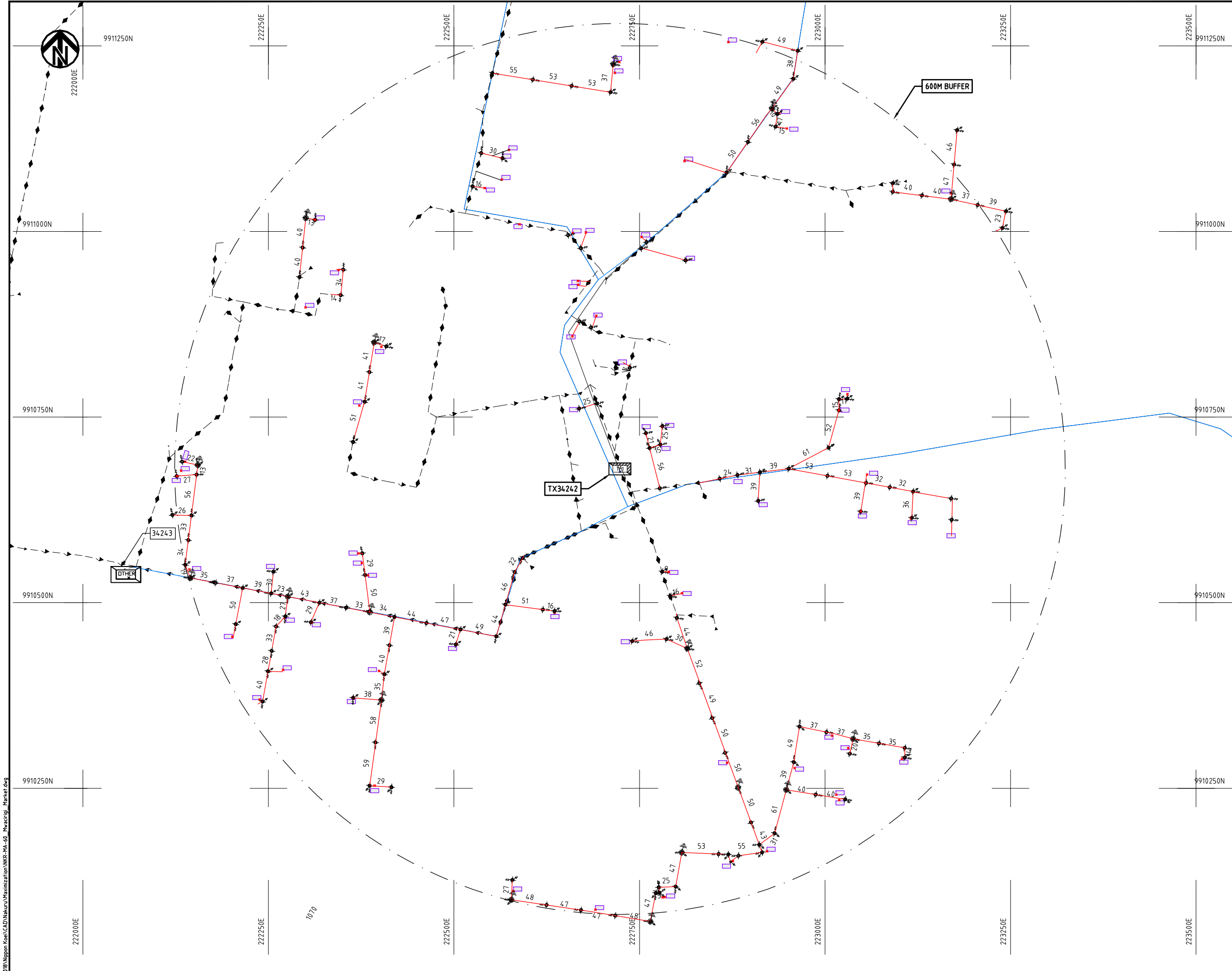
- LEGEND**
- HOUSEHOLDS/ BUILDINGS
 - PROPOSED DISTRIBUTION LINE
 - EXISTING 11kV LINE
 - EXISTING 33kV LINE
 - EXISTING DISTRIBUTION LINE
 - MAXIMISATION TRANSFORMER
 - EXTENSION TRANSFORMER
 - OTHER EXISTING TRANSFORMER
 - WOODEN ELECTRIC POLES
 - CONCRETE ELECTRIC POLES
 - LV-EARTH
 - PME -PROTECTIVE MULTIPLE EARTHING
 - STAY



Cad File No. D:\Frank-Proj\2018\Nippon Koei\CAD\Nakuru\Maximization\NKR-MA-59_Locall_TX_Gilgil_S_S.dwg

PROJECT:	DRAWING TITLE		DRAW. NO.	PREPARED BY	A.AKBAR
	COUNTY: NAKURU SCHEME: MAXIMIZATION PROJECT SITE: 05284 - LOCAL TX_GILGIL S /S		NKR-MA-59	CHECKED BY	S.MAETA
THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA				APPROVED BY	Y.TANAKA
				DATE	10th SEP 2018

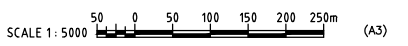




- NOTES:**
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.
 5. POLES NOT SHOWN WHERE PME OR LV EARTH INTERSECT FOR CLARITY.

LEGEND

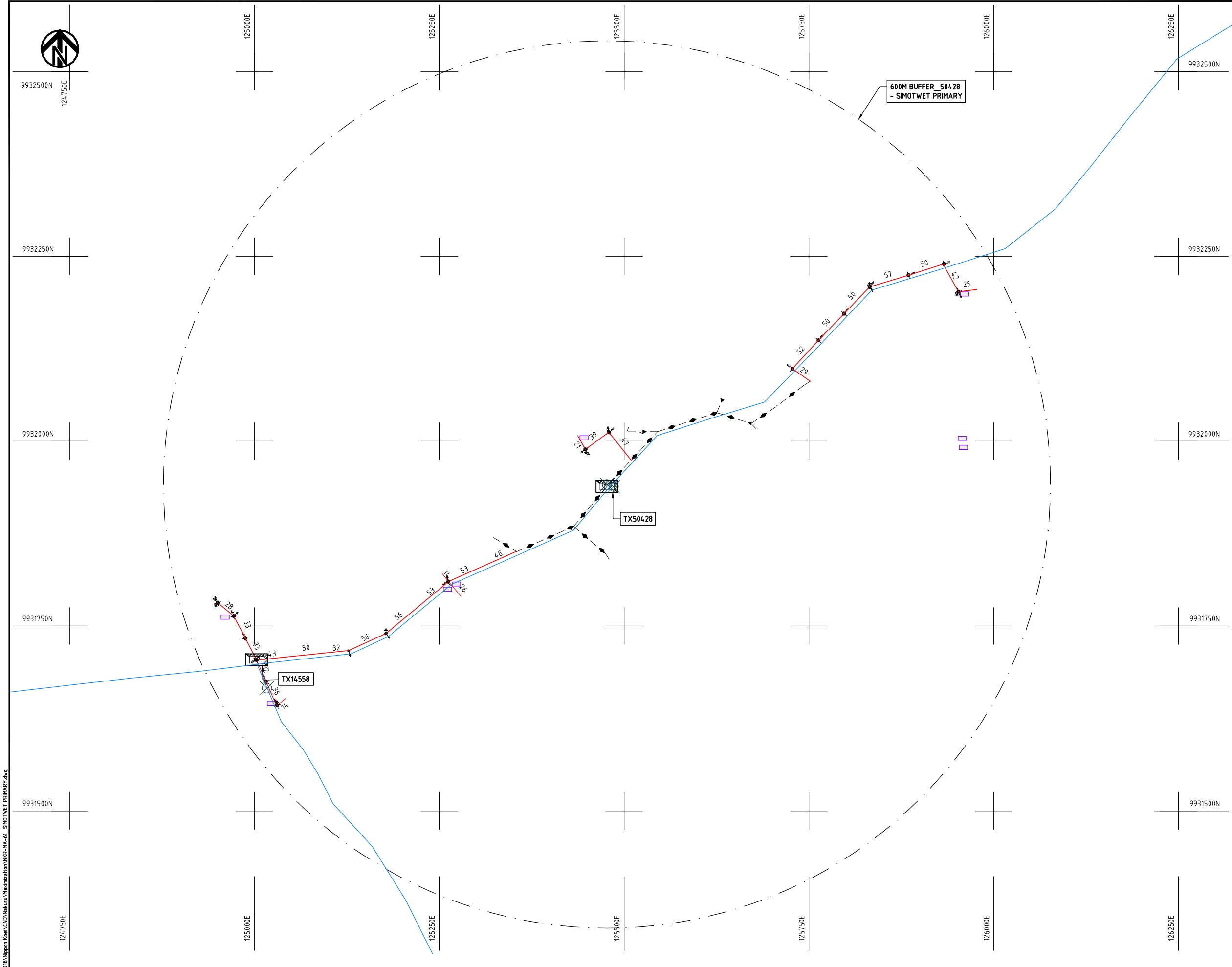
- HOUSEHOLDS/ BUILDINGS
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- OTHER EXISTING TRANSFORMER
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING
- STAY



Ccd File No. D:\Frank-Proj\2017	PROJECT: THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA	DRAWING TITLE		DRAW. NO.	PREPARED BY	A.AKBAR	
		COUNTY: NAKURU SCHEME: MAXIMIZATION PROJECT SITE: 34242-MWICIRIGI MARKET		NKR-MA-60	CHECKED BY	S.MAETA	
					APPROVED BY	Y.TANAKA	
					DATE		10th SEP 2018



Cad File No. D:\Frank-Proj\2018\Nippon Koei\CAD\Nakuru\Maximization\NKR-MA-60_Mwacigiri_Market.dwg



- NOTES:**
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.
 5. POLES NOT SHOWN WHERE PME OR LV EARTH INTERSECT FOR CLARITY.

- LEGEND**
- HOUSEHOLDS/ BUILDINGS
 - PROPOSED DISTRIBUTION LINE
 - EXISTING 11kV LINE
 - EXISTING 33kV LINE
 - EXISTING DISTRIBUTION LINE
 - MAXIMISATION TRANSFORMER
 - EXTENSION TRANSFORMER
 - OTHER EXISTING TRANSFORMER
 - PP WOODEN ELECTRIC POLES
 - CP CONCRETE ELECTRIC POLES
 - LV-EARTH
 - PME -PROTECTIVE MULTIPLE EARTHING
 - STAY

SCALE 1 : 5000 (A3)

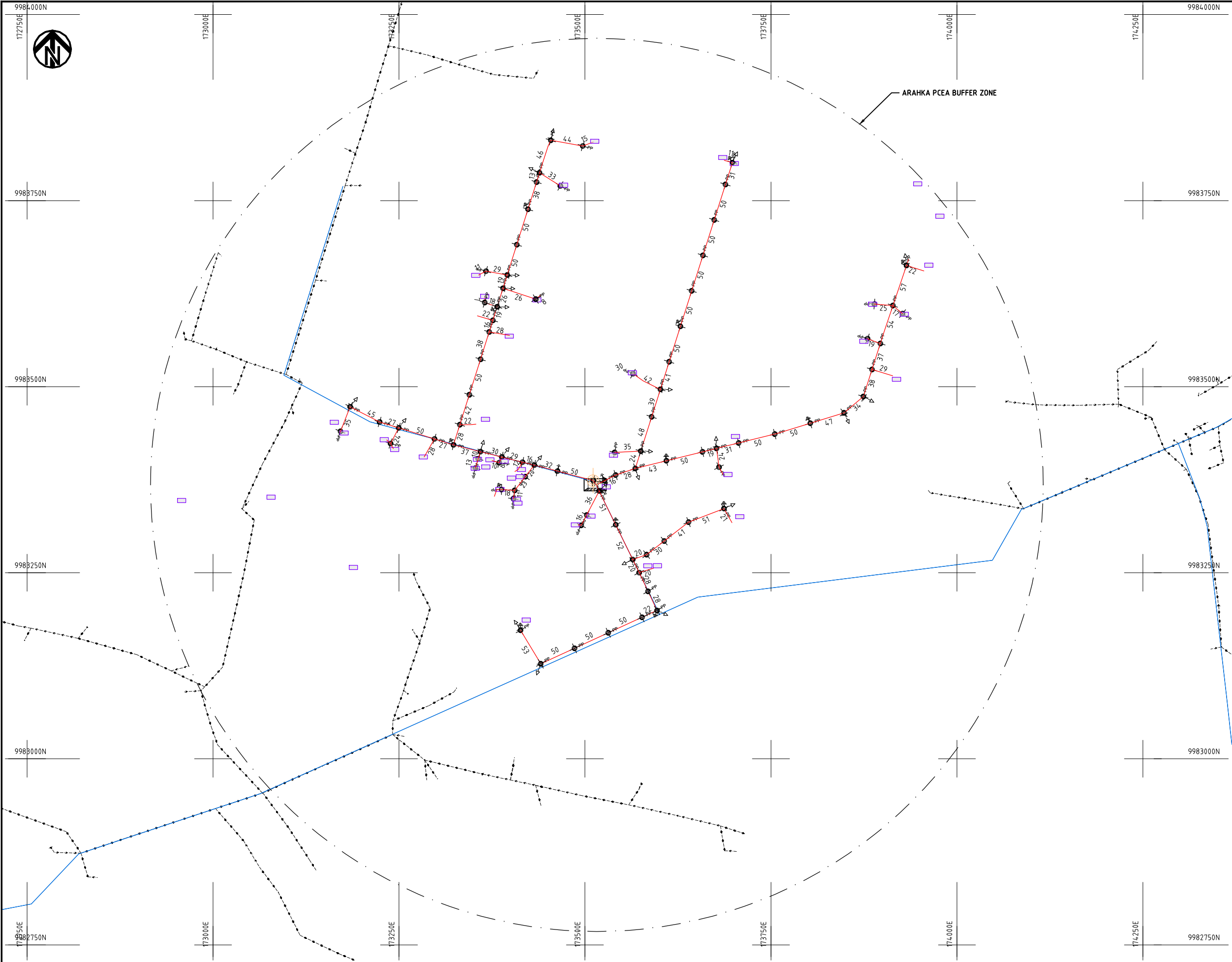
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PROJECT: THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA	DRAWING TITLE		DRAW. NO.	PREPARED BY	A.AKBAR
	COUNTY: NAKURU		NKR-MA-61	CHECKED BY	S.MAETA
	SCHEME: MAXIMIZATION			APPROVED BY	Y.TANAKA
	PROJECT SITE: 50428-SIMOTWET PRI SCHOOL			DATE	10th SEP 2018



ナクル郡

Extension and Maximization



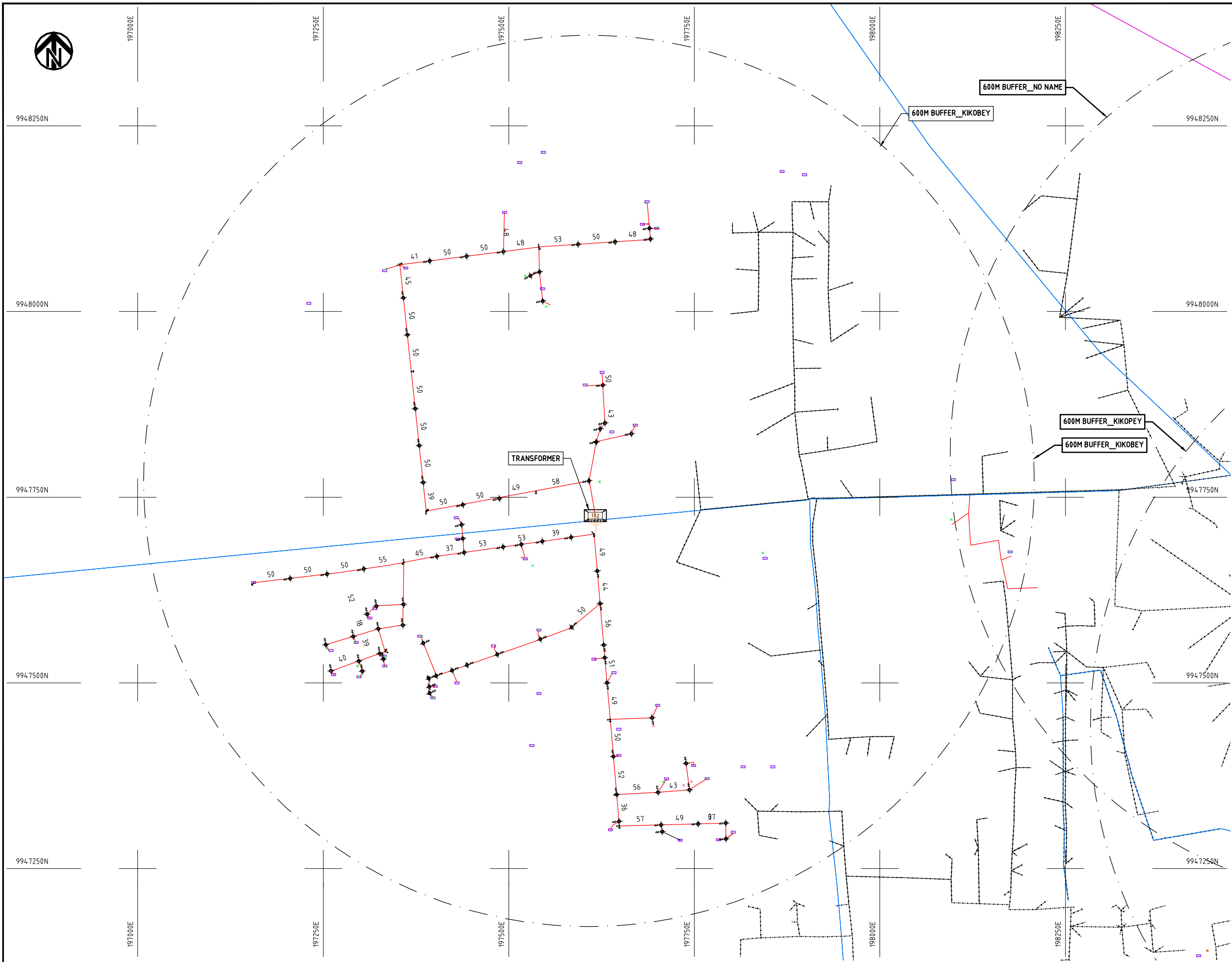
NOTES:

1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.

- HOUSEHOLDS/ BUILDINGS
- PROPOSED 11kV
- Proposed 33kV
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES 12M
- CONCRETE ELECTRIC POLES 11M
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING STAY

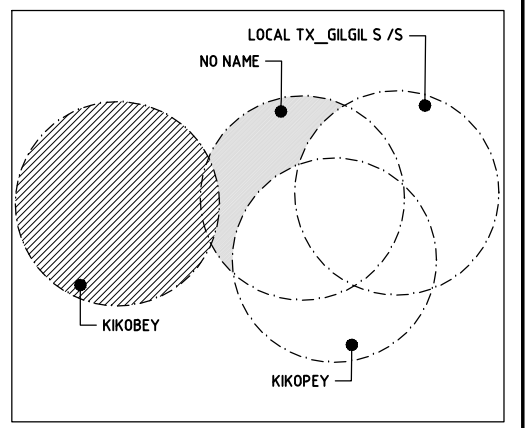
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	PROJECT: THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA	DRAWING TITLE		DRAW. NO.	PREPARED BY	A.AKBAR
		COUNTY: NAKURU SCHEME: EXTENSION PROJECT SITE: ARAHUKA_PCEA		NKR-EX-1	CHECKED BY	S.MAETA
					APPROVED BY	Y.TANAKA
					DATE	10th SEP 2018



NOTES:

1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
2. CONCRETE / WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.

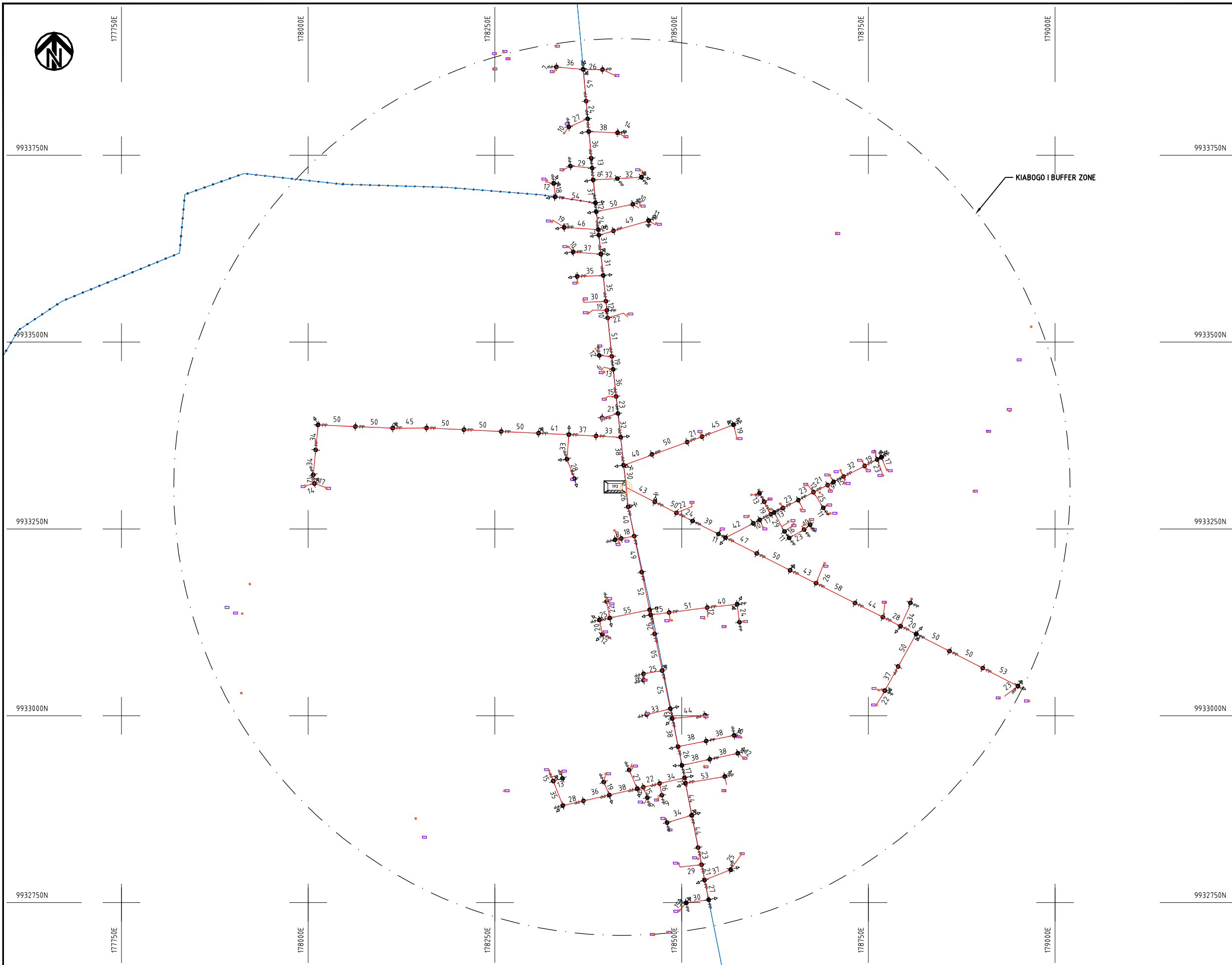


- HOUSEHOLDS/ BUILDINGS
- PROPOSED 11kV
- Proposed 33kV
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES 12M
- CONCRETE ELECTRIC POLES 11M
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING STAY



	PROJECT: THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA	DRAWING TITLE		DRAW. NO.	PREPARED BY	A.AKBAR
		COUNTY: NAKURU SCHEME: EXTENSION PROJECT SITE: KIKOBEY		NKR-EX-2	CHECKED BY	S.MAETA
					APPROVED BY	Y.TANAKA
					DATE	10th SEP 2018

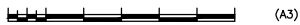




NOTES:

1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.

- HOUSEHOLDS/ BUILDINGS
- PROPOSED 11kV
- Proposed 33kV
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- PP WOODEN ELECTRIC POLES
- CP CONCRETE ELECTRIC POLES 12M
- CP CONCRETE ELECTRIC POLES 11M
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING STAY

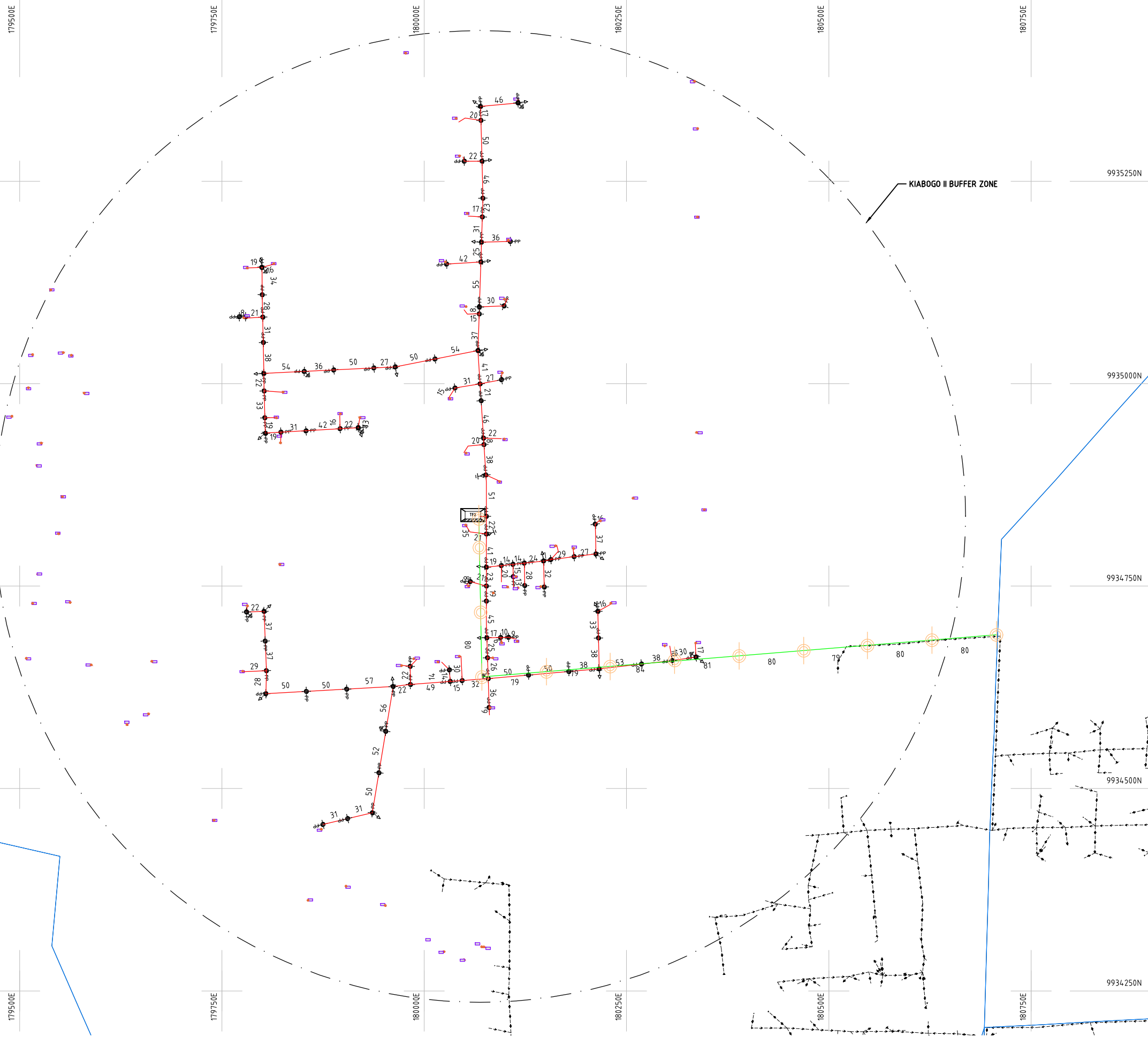


(A3)

	PROJECT: THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA	DRAWING TITLE		DRAW. NO.	PREPARED BY	A.AKBAR
		COUNTY: NAKURU		NKR-EX-3	CHECKED BY	S.MAETA
		SCHEME: EXTENSION			APPROVED BY	Y.TANAKA
		PROJECT SITE: KIAMBOGO I			DATE	10th SEP 2018



NIPPON KOEI CO., LTD



- NOTES:**
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.

- HOUSEHOLDS/ BUILDINGS
- PROPOSED 11kV
- Proposed 33kV
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES 12M
- CONCRETE ELECTRIC POLES 11M
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING STAY



	PROJECT: THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA	DRAWING TITLE		DRAW. NO.	PREPARED BY	A.AKBAR
		COUNTY: NAKURU SCHEME: EXTENSION PROJECT SITE: KIAMBOGO II		NKR-EX-4	CHECKED BY	S.MAETA
					APPROVED BY	Y.TANAKA
					DATE	10th SEP 2018





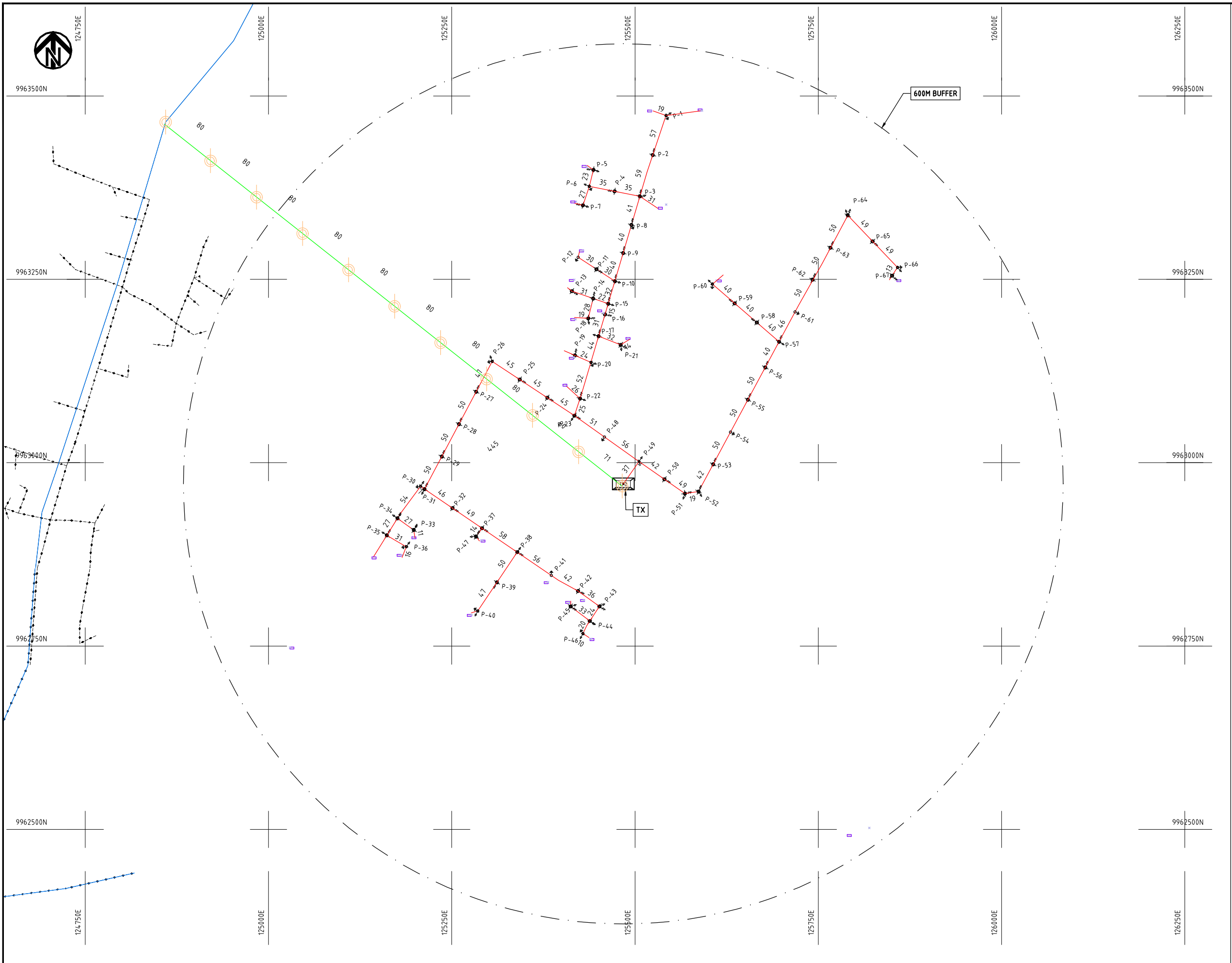
NOTES:

1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.

- HOUSEHOLDS/ BUILDINGS
- PROPOSED 11kV
- Proposed 33kV
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- PP WOODEN ELECTRIC POLES
- CP CONCRETE ELECTRIC POLES 12M
- CP CONCRETE ELECTRIC POLES 11M
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING STAY

1:1000 (A3)

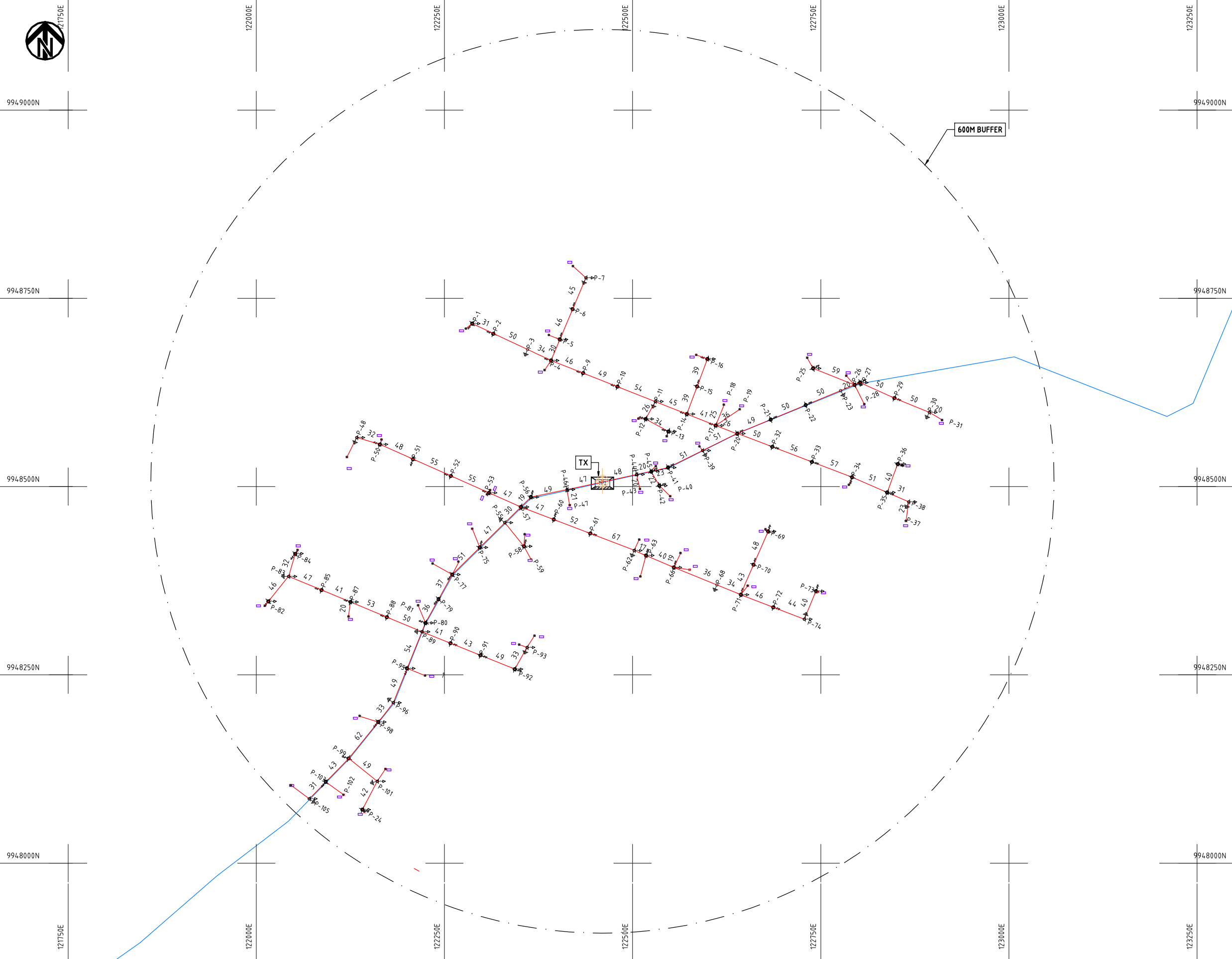
PROJECT: THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA	DRAWING TITLE		DRAW. NO.	PREPARED BY	A.AKBAR	 NIPPON KOEI CO., LTD
	COUNTY: NAKURU SCHEME: EXTENSION PROJECT SITE: KARIRIKANIA		NKR-EX-5	CHECKED BY	S.MAETA	
				APPROVED BY	Y.TANAKA	
				DATE	10th SEP 2018	



- NOTES:**
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.

- HOUSEHOLDS/ BUILDINGS
- PROPOSED 11kV
- Proposed 33kV
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- WOODEN ELECTRIC POLES
- CP CONCRETE ELECTRIC POLES 12M
- CP CONCRETE ELECTRIC POLES 11M
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING STAY

	PROJECT: THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA	DRAWING TITLE		DRAW. NO.	PREPARED BY	A.AKBAR
		COUNTY: NAKURU		NKR-EX-6	CHECKED BY	S.MAETA
		SCHEME: EXTENSION			APPROVED BY	Y.TANAKA
		PROJECT SITE: KENJOKETTY PRY			DATE	10th SEP 2018



NOTES:

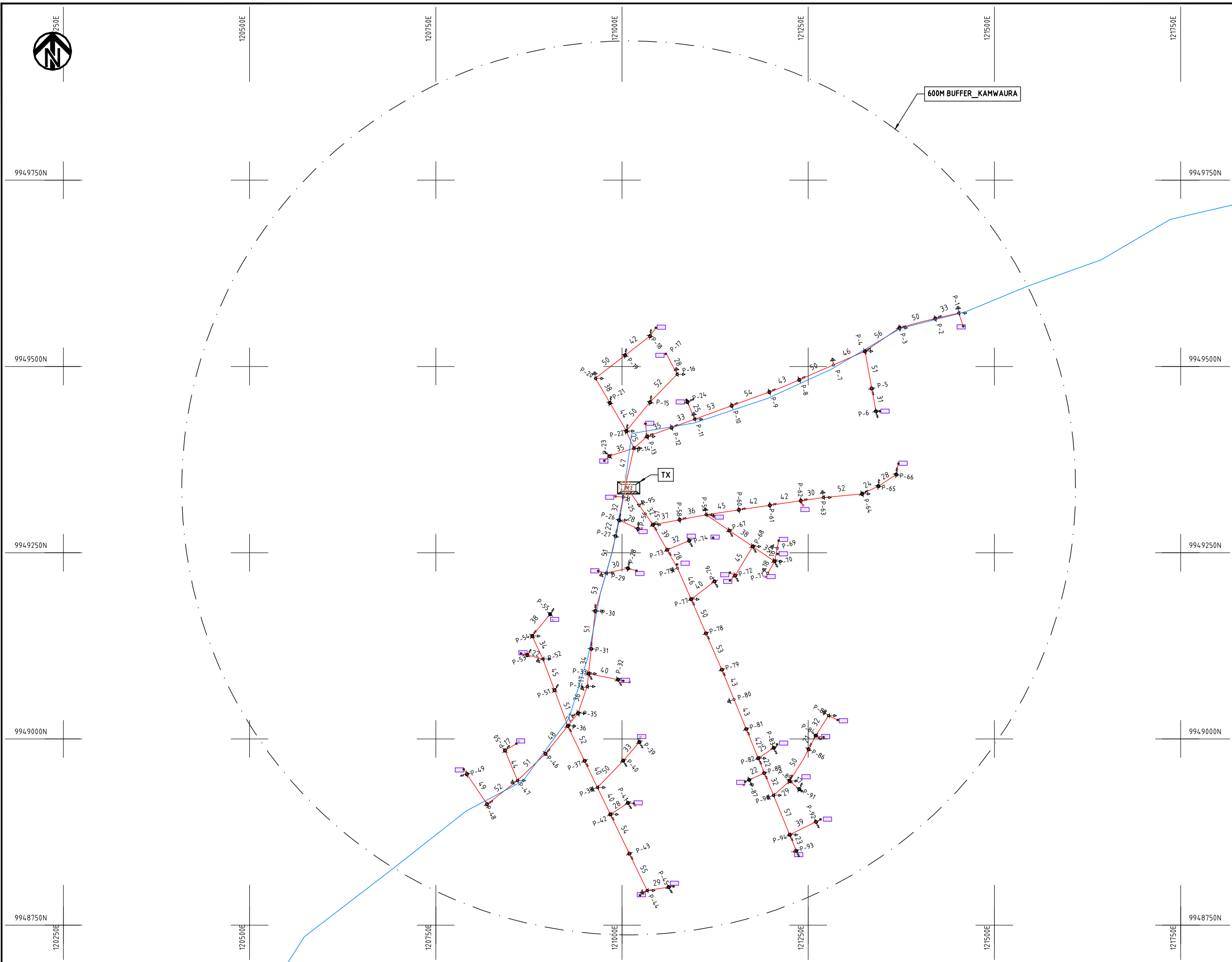
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.

- HOUSEHOLDS/ BUILDINGS
- PROPOSED 11kV
- Proposed 33kV
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- WOODEN ELECTRIC POLES
- CP CONCRETE ELECTRIC POLES 12M
- CP CONCRETE ELECTRIC POLES 11M
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING STAY

Scale bar and (A3) label

	PROJECT: THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA	DRAWING TITLE		DRAW. NO.	PREPARED BY	A.AKBAR
		COUNTY: NAKURU SCHEME: EXTENSION PROJECT SITE: KOITABA	NKR-EX-7	CHECKED BY	S.MAETA	
				APPROVED BY	Y.TANAKA	
				DATE	10th SEP 2018	





NOTES:

1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.

- HOUSEHOLDS/ BUILDINGS
- PROPOSED 11kV
- Proposed 33kV
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- PP WOODEN ELECTRIC POLES
- CP CONCRETE ELECTRIC POLES 12M
- CP CONCRETE ELECTRIC POLES 11M
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING STAY

Scale bar and drawing identifier (A3).

	PROJECT: THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA	DRAWING TITLE		DRAW. NO.	PREPARED BY	A.AKBAR
		COUNTY:	NAKURU	NKR-EX-8	CHECKED BY	S.MAETA
		SCHEME:	EXTENSION		APPROVED BY	Y.TANAKA
		PROJECT SITE:	KAMWAURA		DATE	10th SEP 2018





9952000N

9951750N

9951500N

9951250N

9951000N

120750E

121000E

121250E

121500E

121750E

122000E

600M BUFFER_CHEMANER

9952000N

9951750N

9951500N

9951250N

9951000N

120750E

121000E

121250E

121500E

121750E

122000E

NOTES:

1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.

- HOUSEHOLDS/ BUILDINGS
- PROPOSED 11kV
- Proposed 33kV
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- PP WOODEN ELECTRIC POLES
- CP CONCRETE ELECTRIC POLES 12M
- CP CONCRETE ELECTRIC POLES 11M
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING STAY

(A3)

PROJECT:

THE PREPARATORY SURVEY
ON THE PROJECT FOR IMPROVEMENT
OF POWER DISTRIBUTION SYSTEM
IN THE REPUBLIC OF KENYA

DRAWING TITLE

COUNTY: NAKURU
SCHEME: EXTENSION
PROJECT SITE: CHEMANER

DRAW. NO.

NKR-EX-9

PREPARED BY

A.AKBAR

CHECKED BY

S.MAETA

APPROVED BY

Y.TANAKA

DATE

10th SEP 2018



NIPPON KOEI CO., LTD



122750E

123000E

123250E

123500E

123750E

124000E

124250E

9954000N

9954000N

9953750N

9953750N

9953500N

9953500N

9953250N

9953250N

9953000N

9953000N

122750E

123000E

123250E

123500E

123750E

124000E

124250E

600M BUFFER_CHESIRIKWA

NOTES:

1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.

- HOUSEHOLDS/ BUILDINGS
- PROPOSED 11kV
- Proposed 33kV
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- PP WOODEN ELECTRIC POLES
- CP CONCRETE ELECTRIC POLES 12M
- CP CONCRETE ELECTRIC POLES 11M
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING STAY

(A3)

PROJECT:

THE PREPARATORY SURVEY
ON THE PROJECT FOR IMPROVEMENT
OF POWER DISTRIBUTION SYSTEM
IN THE REPUBLIC OF KENYA

DRAWING TITLE

COUNTY: NAKURU
SCHEME: EXTENSION
PROJECT SITE: CHESIRIKWA

DRAW. NO.

NKR-EX-10

PREPARED BY

A.AKBAR

CHECKED BY

S.MAETA

APPROVED BY

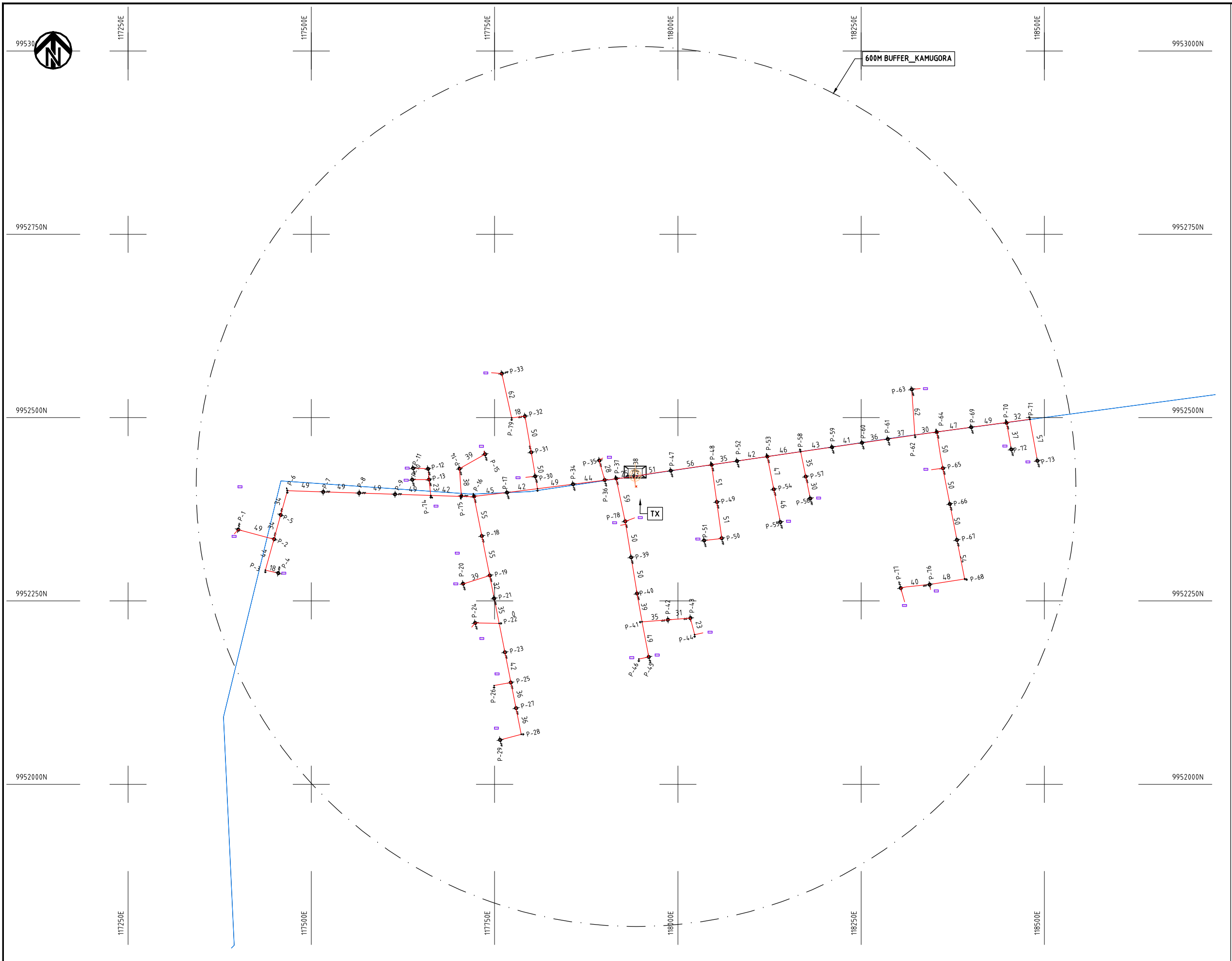
Y.TANAKA

DATE

10th SEP 2018



NIPPON KOEI CO., LTD



- NOTES:**
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.

HOUSEHOLDS/ BUILDINGS

PROPOSED 11kV

Proposed 33kV

PROPOSED DISTRIBUTION LINE

EXISTING 11kV LINE

EXISTING 33kV LINE

EXISTING DISTRIBUTION LINE

MAXIMISATION TRANSFORMER

EXTENSION TRANSFORMER

WOODEN ELECTRIC POLES

CONCRETE ELECTRIC POLES 12M

CONCRETE ELECTRIC POLES 11M

LV-EARTH

PME -PROTECTIVE MULTIPLE EARTHING STAY



PROJECT:	DRAWING TITLE			DRAW. NO.		PREPARED BY		A.AKBAR
						CHECKED BY		S.MAETA
						APPROVED BY		Y.TANAKA
						DATE		10th SEP 2018
THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA			COUNTY: NAKURU SCHEME: EXTENSION PROJECT SITE: KAMUGORA	NKR-EX-11				



124750E

125000E

125250E

125500E

125750E

126000E

126250E

9958000N

9958000N

9957750N

9957750N

9957500N

9957500N

9957250N

9957250N

9957000N

9957000N

124750E

125000E

125250E

125500E

125750E

126000E

126250E

600M BUFFER

NOTES:

1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.

- HOUSEHOLDS/ BUILDINGS
- PROPOSED 11kV
- Proposed 33kV
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- PP WOODEN ELECTRIC POLES
- CP CONCRETE ELECTRIC POLES 12M
- CP CONCRETE ELECTRIC POLES 11M
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING STAY

(A3)

PROJECT:

THE PREPARATORY SURVEY
ON THE PROJECT FOR IMPROVEMENT
OF POWER DISTRIBUTION SYSTEM
IN THE REPUBLIC OF KENYA

DRAWING TITLE

COUNTY: NAKURU
SCHEME: EXTENSION
PROJECT SITE: LAKWENDA

DRAW. NO.

NKR-EX-12

PREPARED BY

A.AKBAR

CHECKED BY

S.MAETA

APPROVED BY

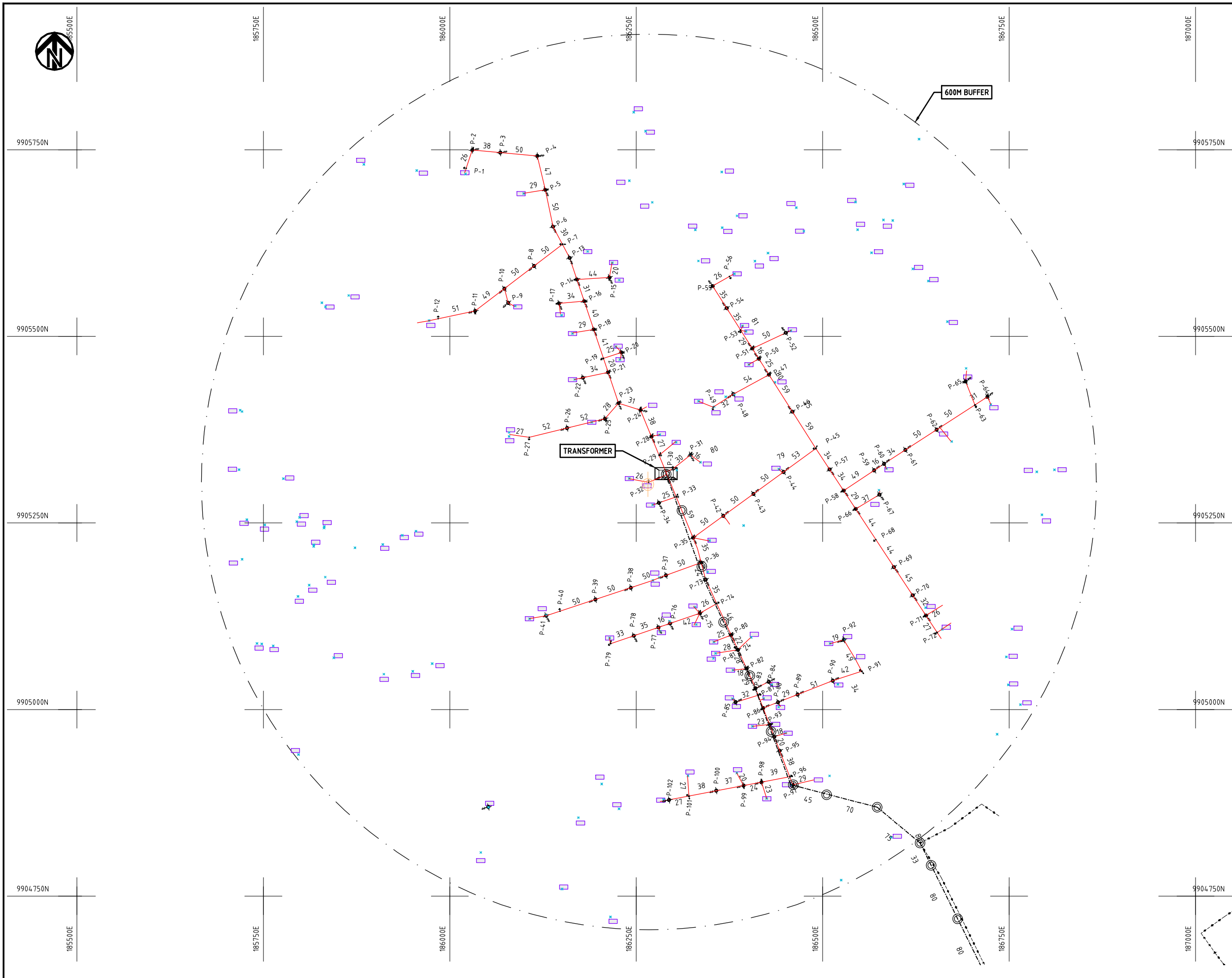
Y.TANAKA

DATE

10th SEP 2018

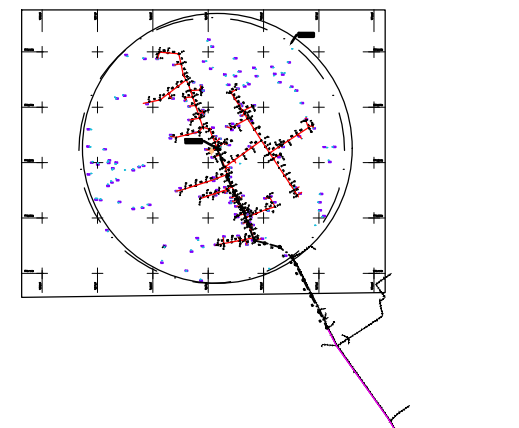


NIPPON KOEI CO., LTD



NOTES:

1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.



- HOUSEHOLDS/ BUILDINGS
- PROPOSED 11kV
- Proposed 33kV
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES 12M
- CONCRETE ELECTRIC POLES 11M
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING STAY

PROJECT:

THE PREPARATORY SURVEY
ON THE PROJECT FOR IMPROVEMENT
OF POWER DISTRIBUTION SYSTEM
IN THE REPUBLIC OF KENYA

DRAWING TITLE

COUNTY: NAKURU
SCHEME: EXTENSION
PROJECT SITE: MAELA

DRAW. NO.

NKR-EX-13

PREPARED BY

A.AKBAR

CHECKED BY

S.MAETA

APPROVED BY

Y.TANAKA

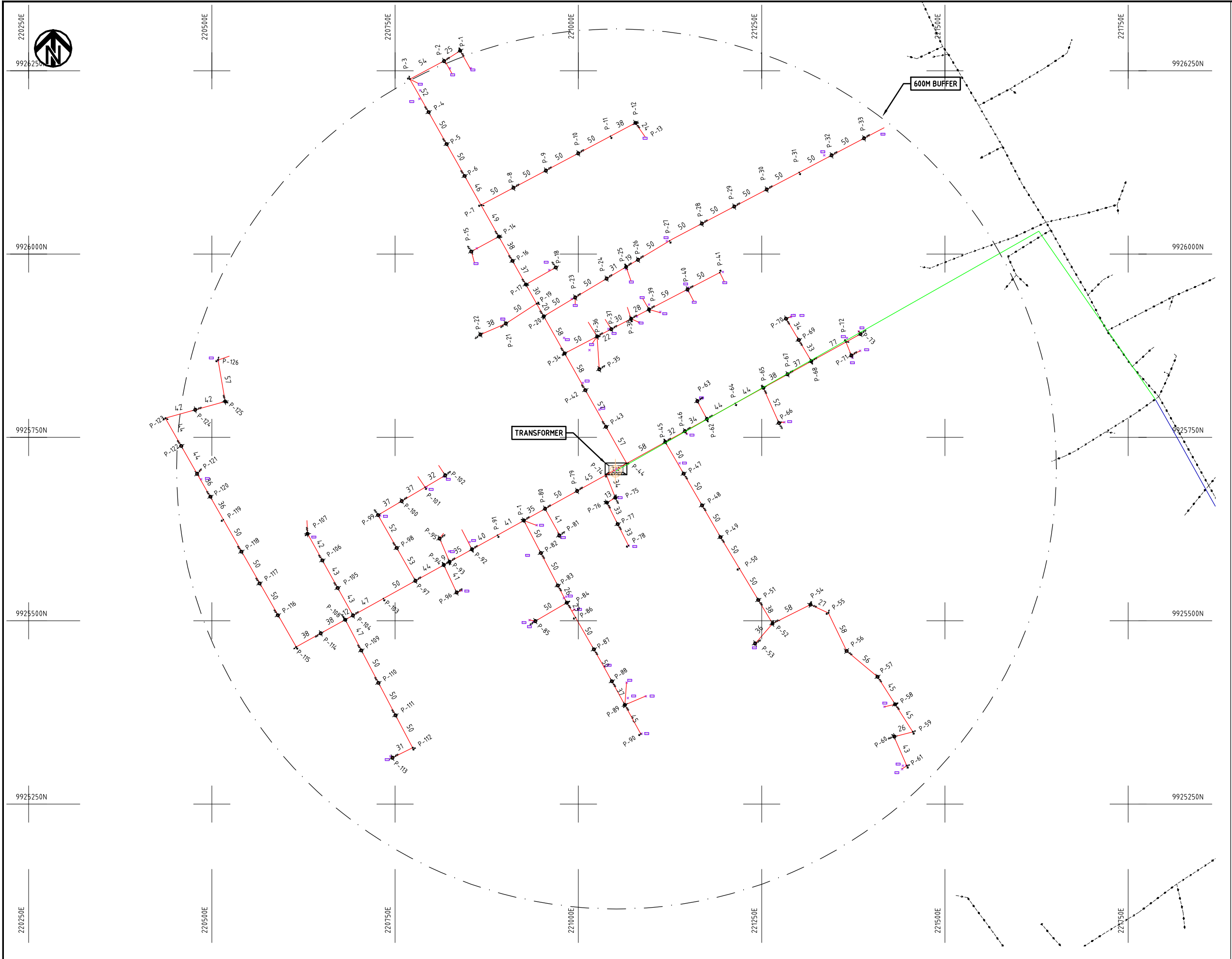
DATE

10th SEP 2018



NIPPON KOEI CO., LTD

(A3)



- NOTES:**
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 2. CONCRETE / WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.

HOUSEHOLDS/ BUILDINGS

PROPOSED 11kV

Proposed 33kV

PROPOSED DISTRIBUTION LINE

EXISTING 11kV LINE

EXISTING 33kV LINE

EXISTING DISTRIBUTION LINE

MAXIMISATION TRANSFORMER

EXTENSION TRANSFORMER

PP WOODEN ELECTRIC POLES

CP CONCRETE ELECTRIC POLES 12M

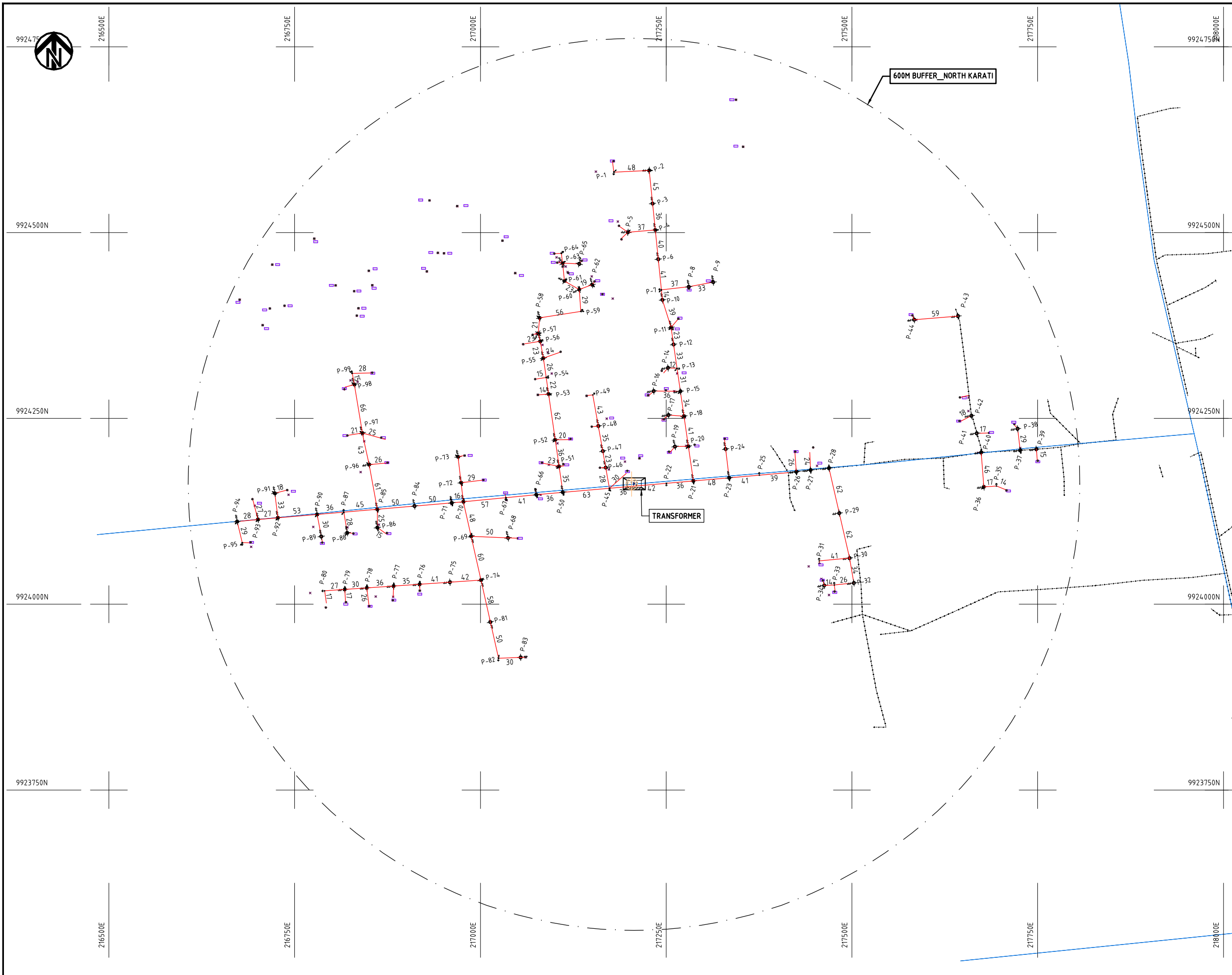
CP CONCRETE ELECTRIC POLES 11M

LV-EARTH

PME -PROTECTIVE MULTIPLE EARTHING STAY



PROJECT:	DRAWING TITLE			DRAW. NO.		PREPARED BY		A.AKBAR
						CHECKED BY		S.MAETA
						APPROVED BY		Y.TANAKA
						DATE		10th SEP 2018
THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA			COUNTY: NAKURU SCHEME: EXTENSION PROJECT SITE: NEW KARATI	NKR-EX-14				



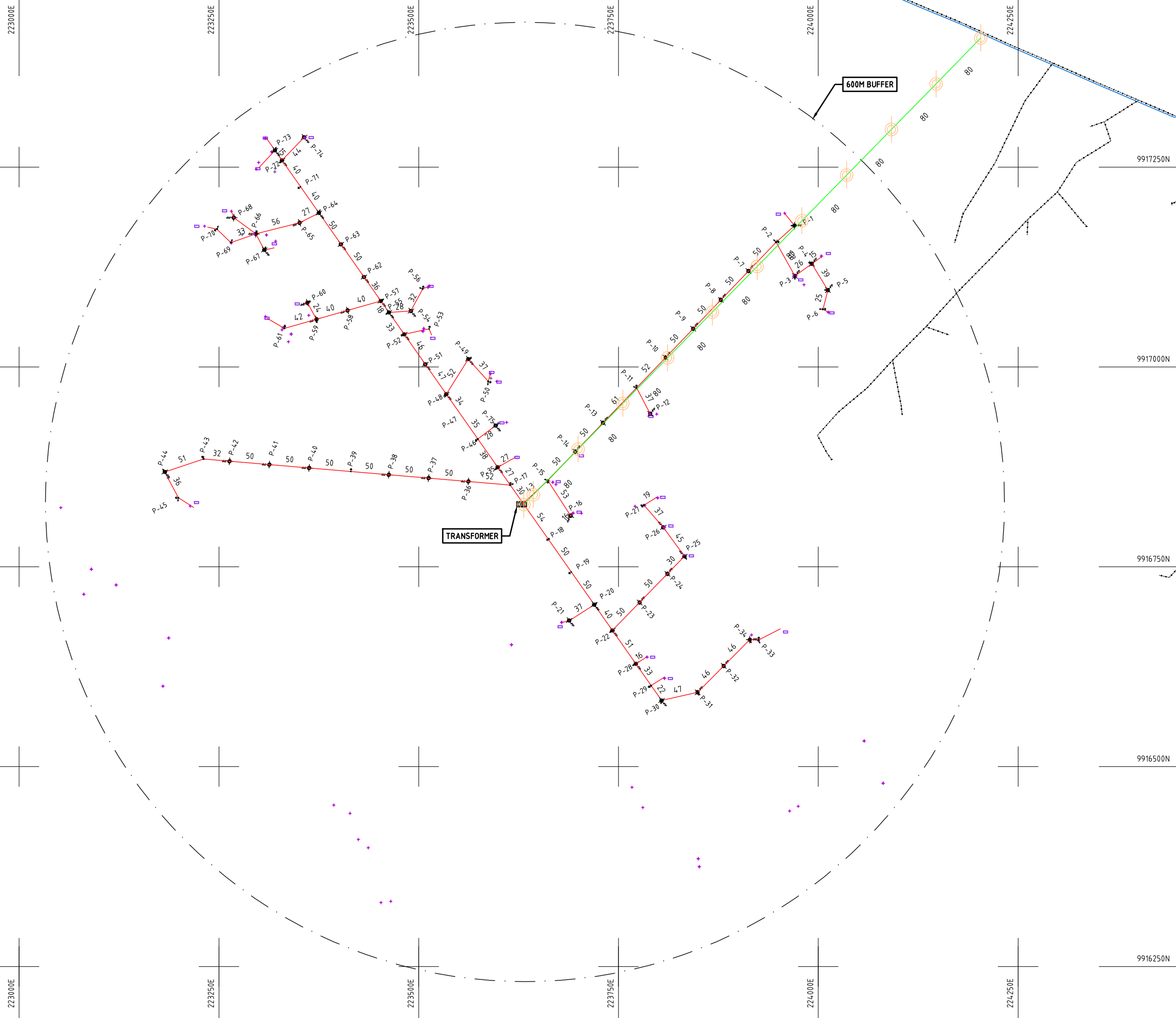
NOTES:

1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.

- HOUSEHOLDS/ BUILDINGS
- PROPOSED 11kV
- Proposed 33kV
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES 12M
- CONCRETE ELECTRIC POLES 11M
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING STAY

(A3)

PROJECT:	DRAWING TITLE			DRAW. NO.		PREPARED BY		A.AKBAR
						CHECKED BY		S.MAETA
						APPROVED BY		Y.TANAKA
						DATE		10th SEP 2018
THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA			COUNTY: NAKURU SCHEME: EXTENSION PROJECT SITE: NORTH KARATI	NKR-EX-15				



NOTES:

1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.

- HOUSEHOLDS/ BUILDINGS
- PROPOSED 11kV
- Proposed 33kV
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- WOODEN ELECTRIC POLES
- CP CONCRETE ELECTRIC POLES 12M
- CP CONCRETE ELECTRIC POLES 11M
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING STAY

1:1000 (A3)

	PROJECT: THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA	DRAWING TITLE		DRAW. NO.	PREPARED BY	A.AKBAR
		COUNTY: NAKURU SCHEME: EXTENSION PROJECT SITE: MARAIGUSHO		NKR-EX-16	CHECKED BY	S.MAETA
					APPROVED BY	Y.TANAKA
					DATE	10th SEP 2018



NIPPON KOEI CO., LTD



221250E

221500E

221750E

222000E

222250E

222500E

222750E

9912250N

9912250N

9912000N

9912000N

9911750N

9911750N

9911500N

9911500N

9911250N

9911250N

221250E

221500E

221750E

222000E

222250E

222500E

222750E

600M BUFFER_136738 - TEACHERS GILGIL

TRANSFORMER

NOTES:

1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.

- HOUSEHOLDS/ BUILDINGS
- PROPOSED 11kV
- Proposed 33kV
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- WOODEN ELECTRIC POLES
- CP CONCRETE ELECTRIC POLES 12M
- CP CONCRETE ELECTRIC POLES 11M
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING STAY

(A3)

PROJECT:

THE PREPARATORY SURVEY
ON THE PROJECT FOR IMPROVEMENT
OF POWER DISTRIBUTION SYSTEM
IN THE REPUBLIC OF KENYA

DRAWING TITLE

COUNTY: NAKURU
SCHEME: EXTENSION
PROJECT SITE: MWICHINGIRI

DRAW. NO.

NKR-EX-17

PREPARED BY

A.AKBAR

CHECKED BY

S.MAETA

APPROVED BY

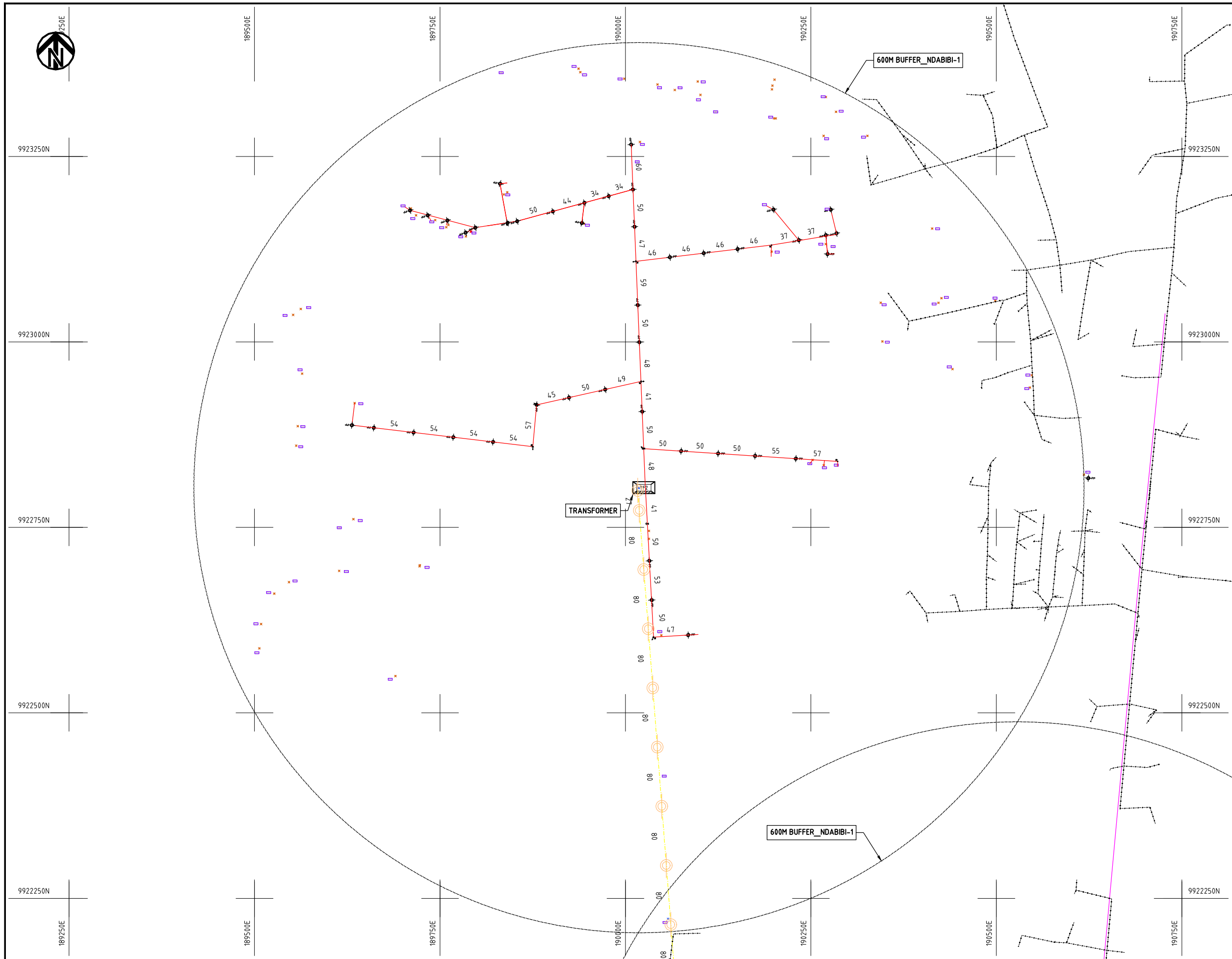
Y.TANAKA

DATE

10th SEP 2018

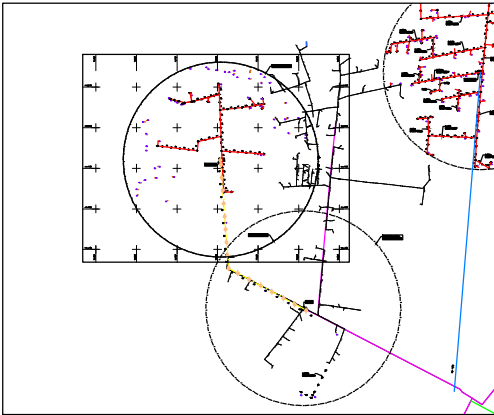


NIPPON KOEI CO., LTD



NOTES:

1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.



- HOUSEHOLDS/ BUILDINGS
- PROPOSED 11kV
- Proposed 33kV
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES 12M
- CONCRETE ELECTRIC POLES 11M
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING STAY

PROJECT:

THE PREPARATORY SURVEY
ON THE PROJECT FOR IMPROVEMENT
OF POWER DISTRIBUTION SYSTEM
IN THE REPUBLIC OF KENYA

DRAWING TITLE

COUNTY: NAKURU
SCHEME: EXTENSION
PROJECT SITE: NDABIBI 1

DRAW. NO.

NKR-EX-18

PREPARED BY

A.AKBAR

CHECKED BY

S.MAETA

APPROVED BY

Y.TANAKA

DATE

10th SEP 2018



NIPPON KOEI CO., LTD



191000E

191250E

191500E

191750E

192000E

192250E

9923750N

9923500N

9923250N

9923000N

9922750N

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191750E

192000E

192250E

9923750N

9923500N

9923250N

9923000N

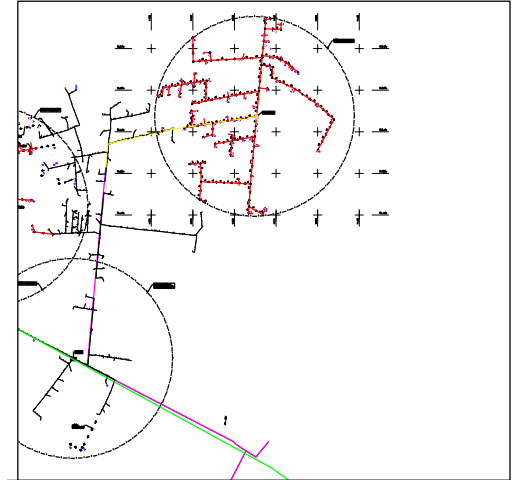
9922750N

600M BUFFER_NDABIBI-2

TRANSFORMER

NOTES:

1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
2. CONCRETE / WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.



- HOUSEHOLDS/ BUILDINGS
- PROPOSED 11kV
- Proposed 33kV
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- WOODEN ELECTRIC POLES
- CP CONCRETE ELECTRIC POLES 12M
- CP CONCRETE ELECTRIC POLES 11M
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING STAY

(A3)

PROJECT:

THE PREPARATORY SURVEY
ON THE PROJECT FOR IMPROVEMENT
OF POWER DISTRIBUTION SYSTEM
IN THE REPUBLIC OF KENYA

DRAWING TITLE

COUNTY: NAKURU
SCHEME: EXTENSION
PROJECT SITE: NDABIBI 2

DRAW. NO.

NKR-EX-19

PREPARED BY

A.AKBAR

CHECKED BY

S.MAETA

APPROVED BY

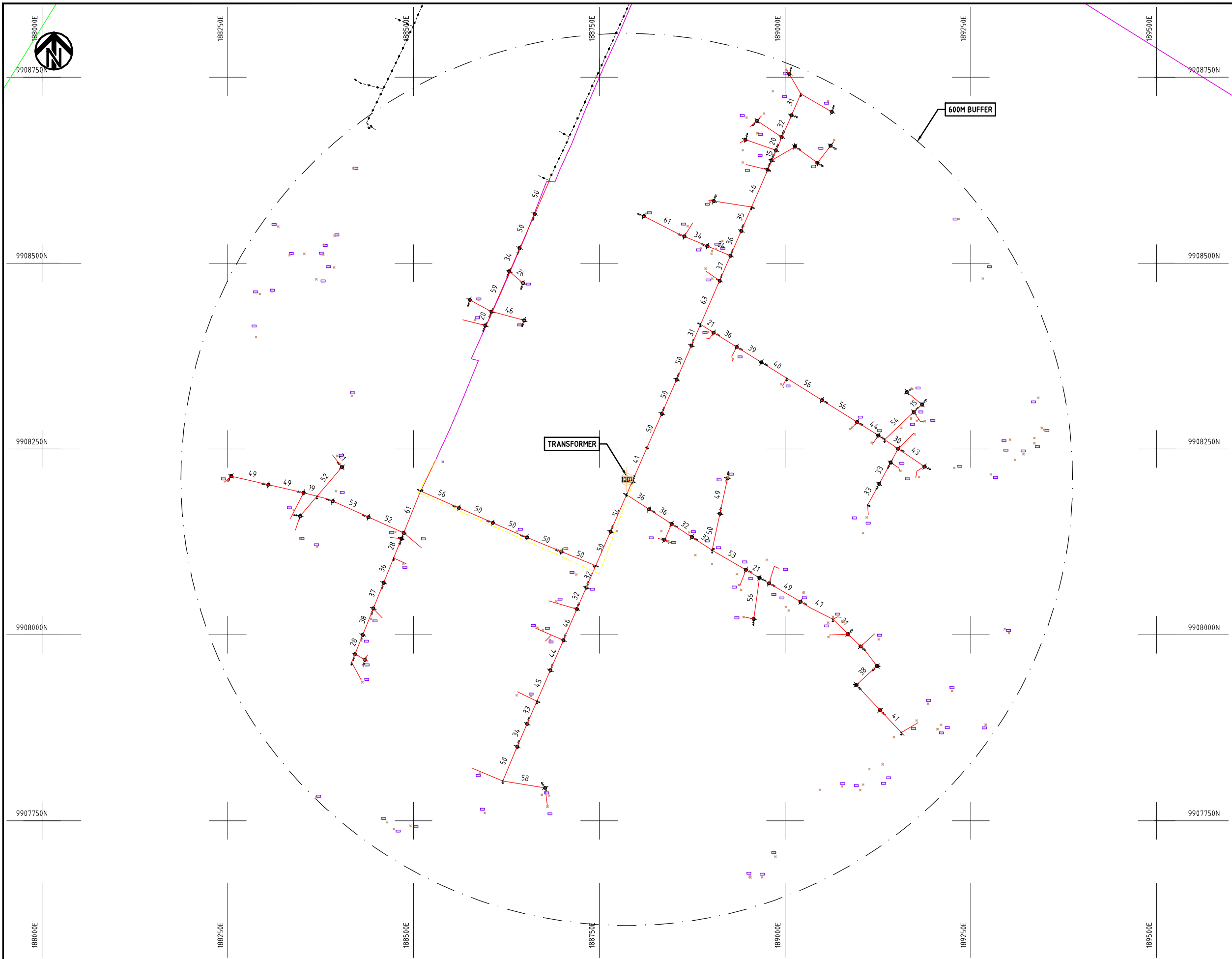
Y.TANAKA

DATE

10th SEP 2018



NIPPON KOEI CO., LTD



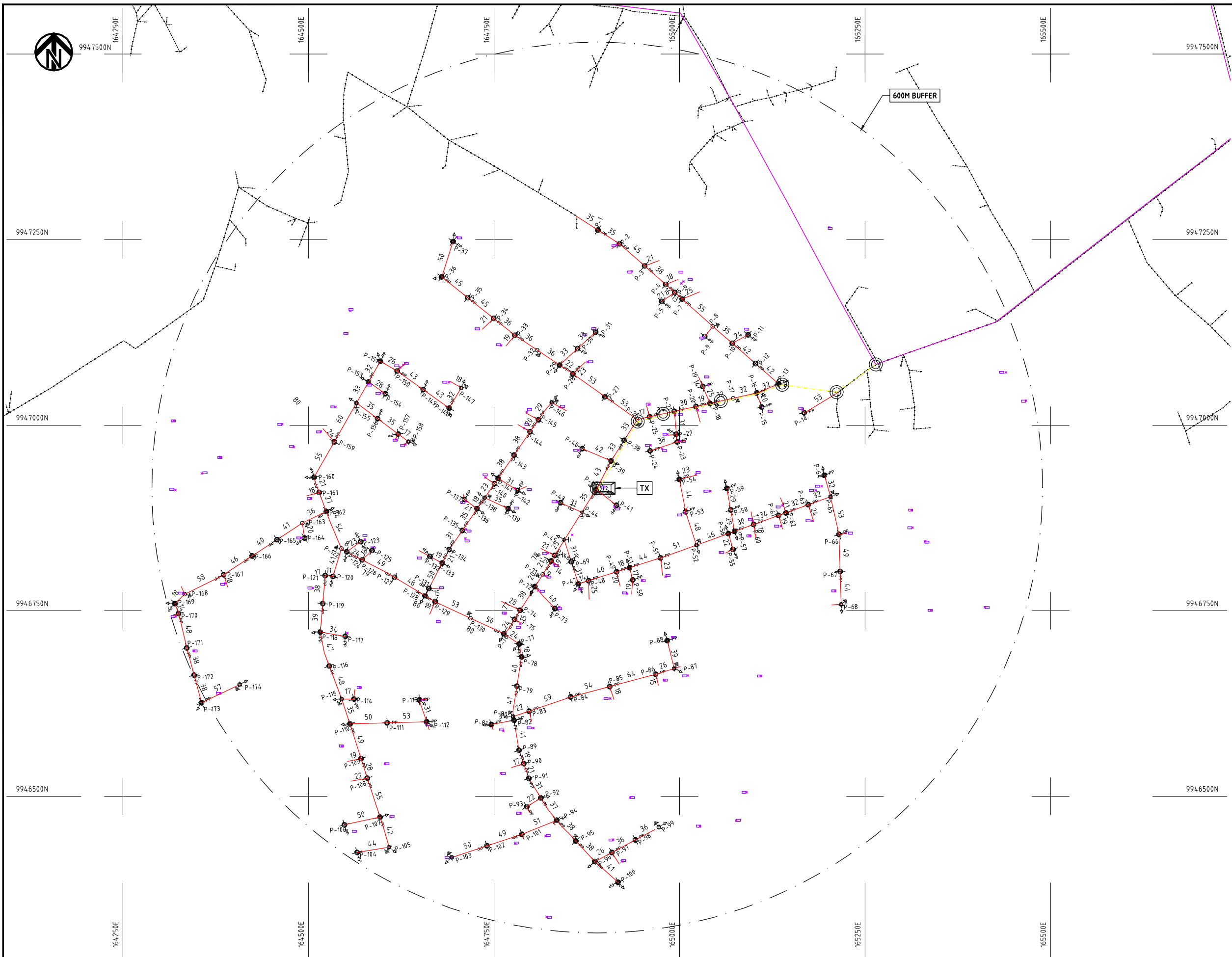
NOTES:

1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.

- HOUSEHOLDS/ BUILDINGS
- PROPOSED 11kV
- Proposed 33kV
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES 12M
- CONCRETE ELECTRIC POLES 11M
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING STAY

(A3)

	PROJECT: THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA	DRAWING TITLE		DRAW. NO.	PREPARED BY	A.AKBAR
		COUNTY: NAKURU SCHEME: EXTENSION PROJECT SITE: NGONDI		NKR-EX-20	CHECKED BY	S.MAETA
					APPROVED BY	Y.TANAKA
					DATE	10th SEP 2018



NOTES:

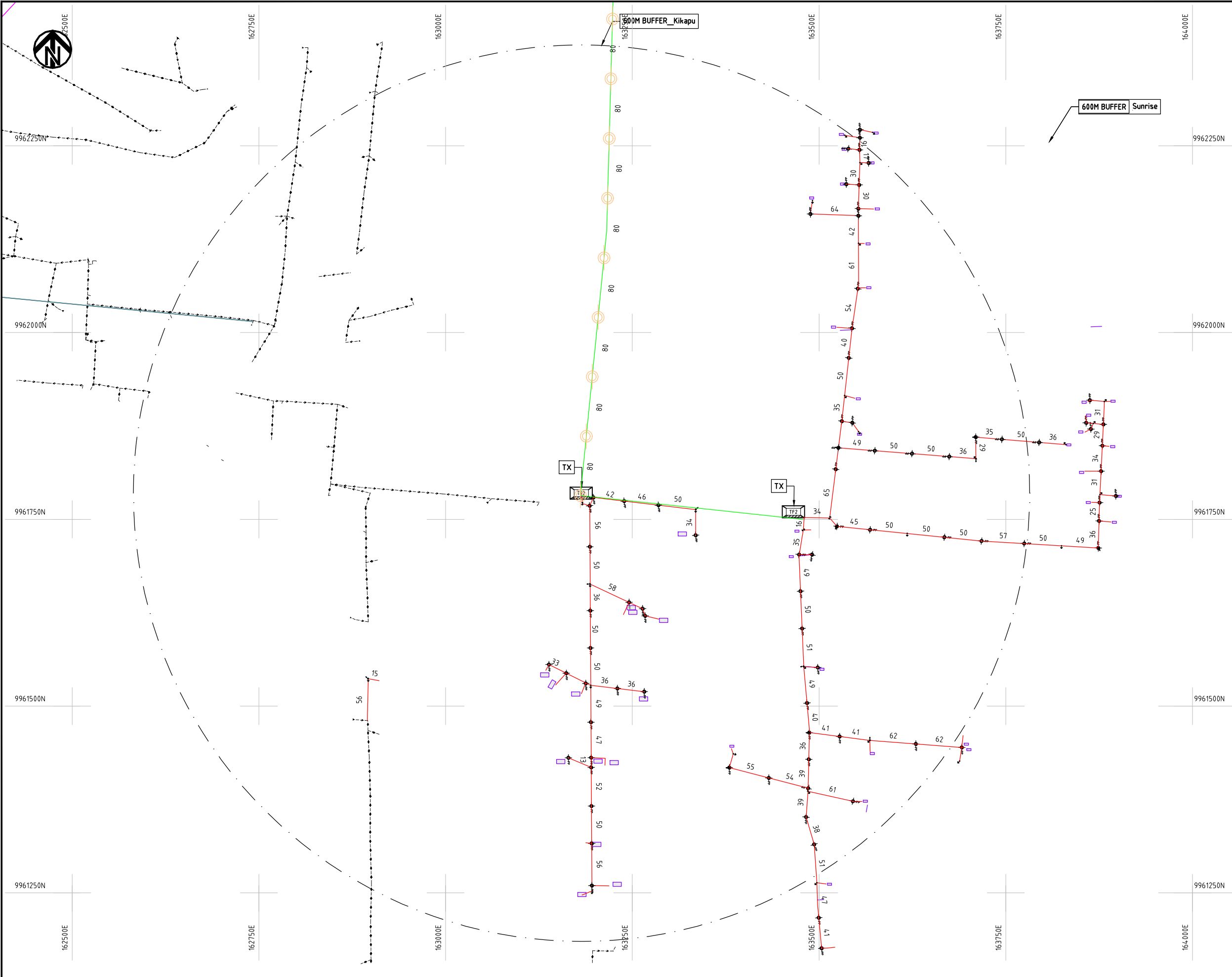
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
2. CONCRETE / WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.

- HOUSEHOLDS/ BUILDINGS
- PROPOSED 11kV
- Proposed 33kV
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- PP WOODEN ELECTRIC POLES
- CP CONCRETE ELECTRIC POLES 12M
- CP CONCRETE ELECTRIC POLES 11M
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING STAY

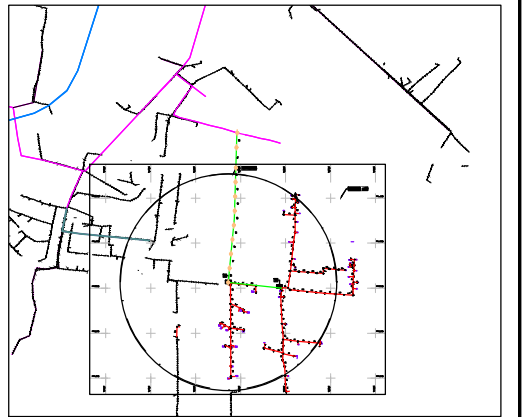
PROJECT:	DRAWING TITLE			DRAW. NO.		PREPARED BY	A.AKBAR
						CHECKED BY	S.MAETA
						APPROVED BY	Y.TANAKA
						DATE	10th SEP 2018
THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA			COUNTY: NAKURU	 NIPPON KOEI CO., LTD			
			SCHEME: EXTENSION				
			PROJECT SITE: KANYANYAINI				



NIPPON KOEI CO., LTD



- NOTES:**
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.

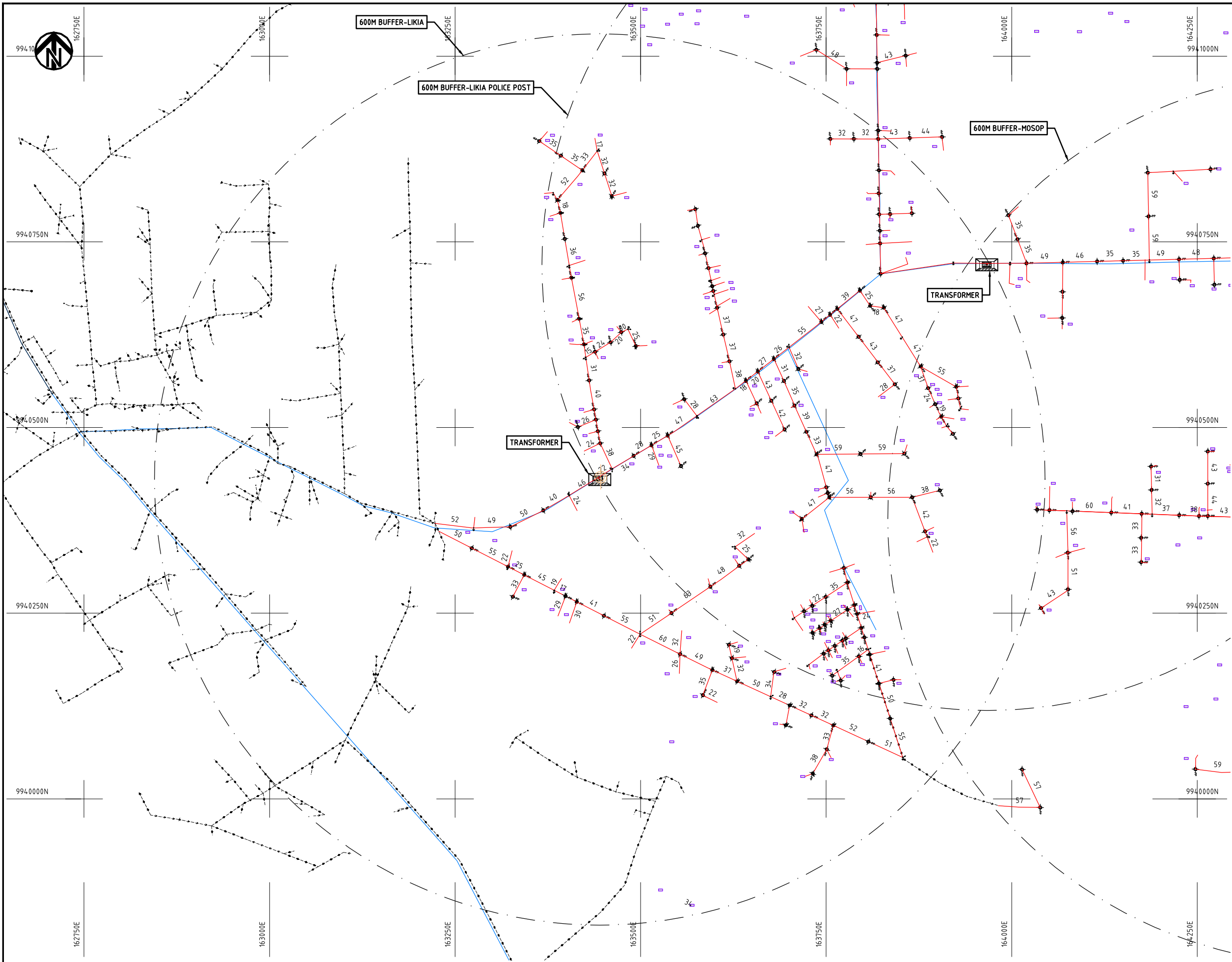


- HOUSEHOLDS/ BUILDINGS
- PROPOSED 11kV
- Proposed 33kV
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES 12M
- CONCRETE ELECTRIC POLES 11M
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING STAY

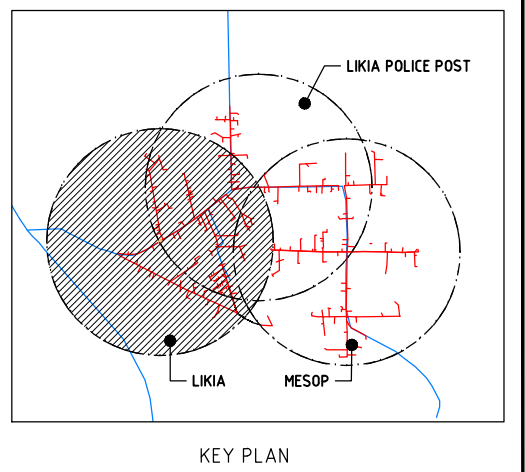


PROJECT:	DRAWING TITLE			DRAW. NO.		PREPARED BY	A.AKBAR
						CHECKED BY	S.MAETA
						APPROVED BY	Y.TANAKA
						DATE	10th SEP 2018
THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA			COUNTY: NAKURU SCHEME: EXTENSION PROJECT SITE: KIKAPU	NKR-EX-22			





- NOTES:**
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 2. CONCRETE / WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.



- HOUSEHOLDS/ BUILDINGS
- PROPOSED 11kV
- Proposed 33kV
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- WOODEN ELECTRIC POLES
- CP CONCRETE ELECTRIC POLES 12M
- CP CONCRETE ELECTRIC POLES 11M
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING STAY

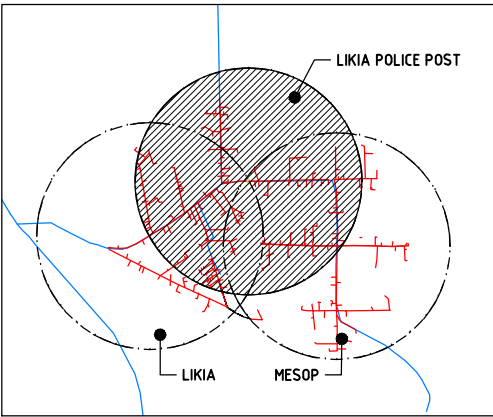


PROJECT:	DRAWING TITLE			DRAW. NO.	PREPARED BY	A.AKBAR
				NKR-EX-23	CHECKED BY	S.MAETA
					APPROVED BY	Y.TANAKA
					DATE	10th SEP 2018
THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA			COUNTY: NAKURU SCHEME: EXTENSION PROJECT SITE: LIKIA			



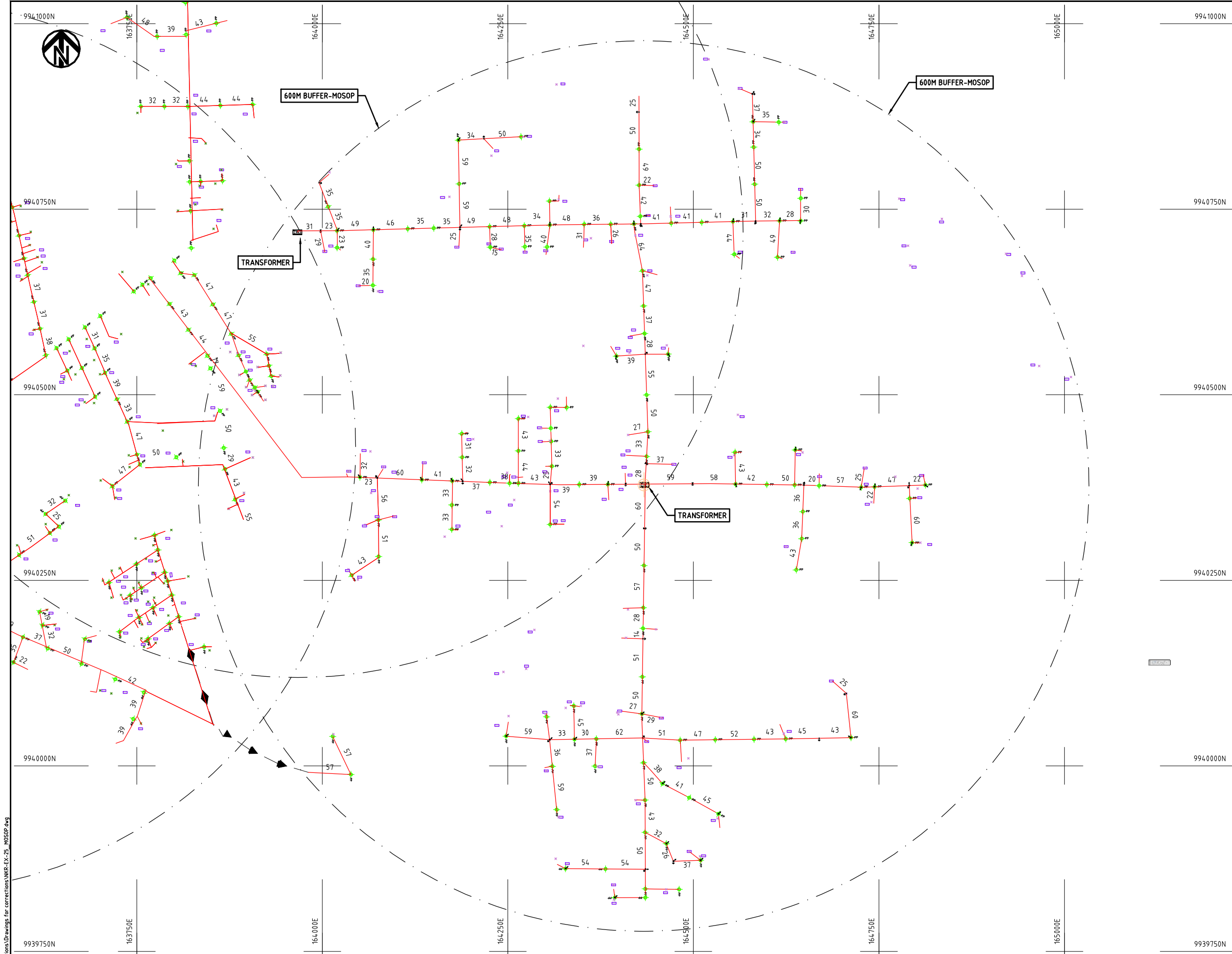


- NOTES:**
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 2. CONCRETE / WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.

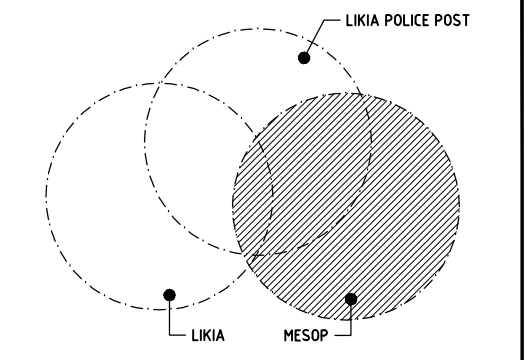


- KEY PLAN
- HOUSEHOLDS/ BUILDINGS
 - PROPOSED 11kV
 - Proposed 33kV
 - PROPOSED DISTRIBUTION LINE
 - EXISTING 11kV LINE
 - EXISTING 33kV LINE
 - EXISTING DISTRIBUTION LINE
 - MAXIMISATION TRANSFORMER
 - EXTENSION TRANSFORMER
 - WOODEN ELECTRIC POLES
 - CP CONCRETE ELECTRIC POLES 12M
 - CP CONCRETE ELECTRIC POLES 11M
 - LV-EARTH
 - PME -PROTECTIVE MULTIPLE EARTHING STAY

	PROJECT: THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA	DRAWING TITLE		DRAW. NO.	PREPARED BY	A.AKBAR
		COUNTY: NAKURU SCHEME: EXTENSION PROJECT SITE: LIKIA POLICE POST		NKR-EX-24	CHECKED BY	S.MAETA
					APPROVED BY	Y.TANAKA
					DATE	10th SEP 2018



- NOTES:**
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 2. CONCRETE / WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.



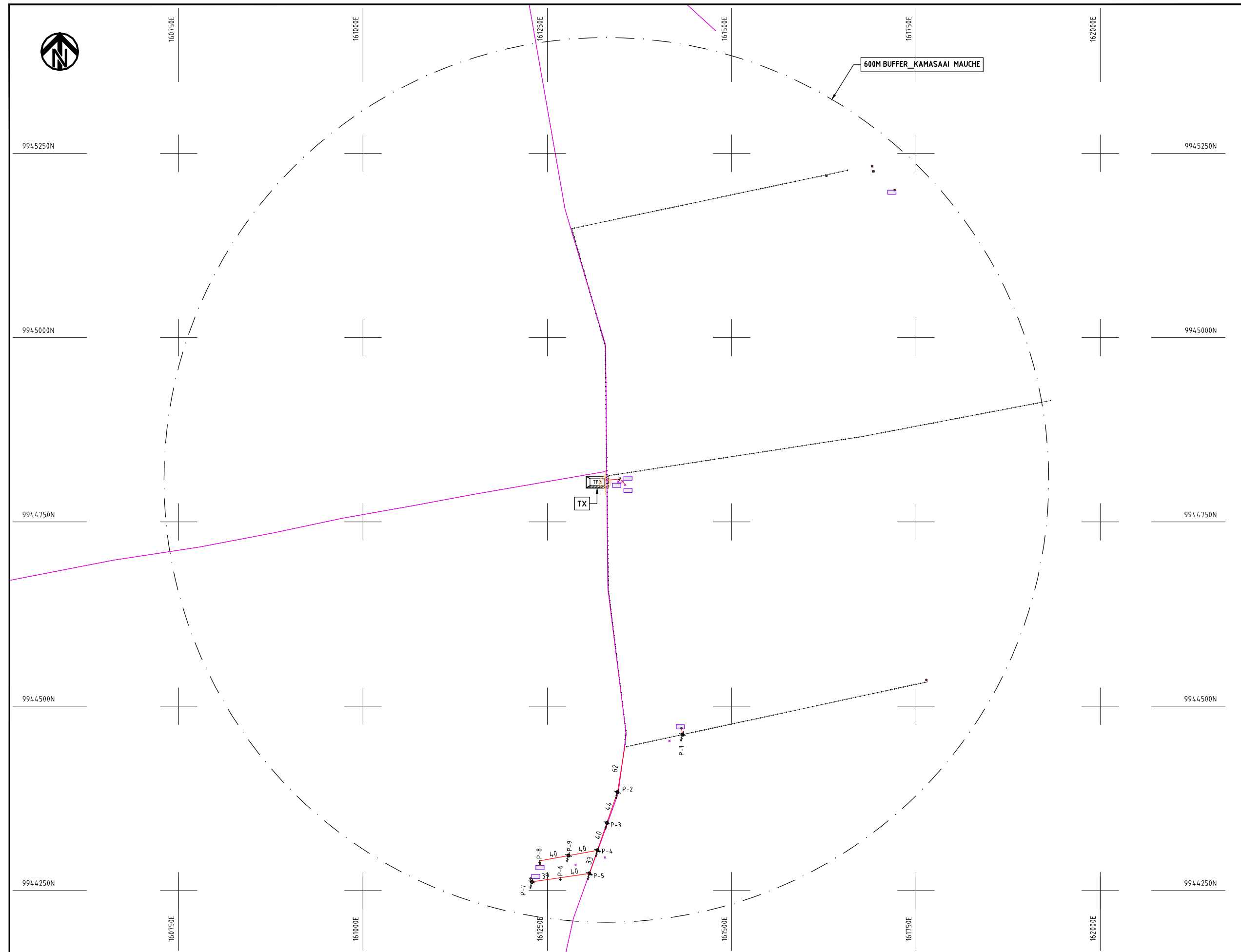
- LEGEND**
- HOUSEHOLDS/ BUILDINGS
 - PROPOSED 11kV
 - PROPOSED 33kV
 - PROPOSED DISTRIBUTION LINE
 - EXISTING 11kV LINE
 - EXISTING 33kV LINE
 - EXISTING DISTRIBUTION LINE
 - MAXIMISATION TRANSFORMER
 - EXTENSION TRANSFORMER
 - WOODEN ELECTRIC POLES
 - CONCRETE ELECTRIC POLES 12M
 - CONCRETE ELECTRIC POLES 11M
 - LV-EARTH
 - PME -PROTECTIVE MULTIPLE EARTHING
 - STAY



Cad File No. G:\Drawings for corrections\NKR-EX-25_MOSOP.dwg

PROJECT: THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA	DRAWING TITLE		DRAW. NO.	PREPARED BY	A.AKBAR
	COUNTY: NAKURU SCHEME: EXTENSION PROJECT SITE: MOSOP		NKR-EX-25	CHECKED BY APPROVED BY DATE	S.MAETA Y.TANAKA 10th SEP 2018





NOTES:

1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.

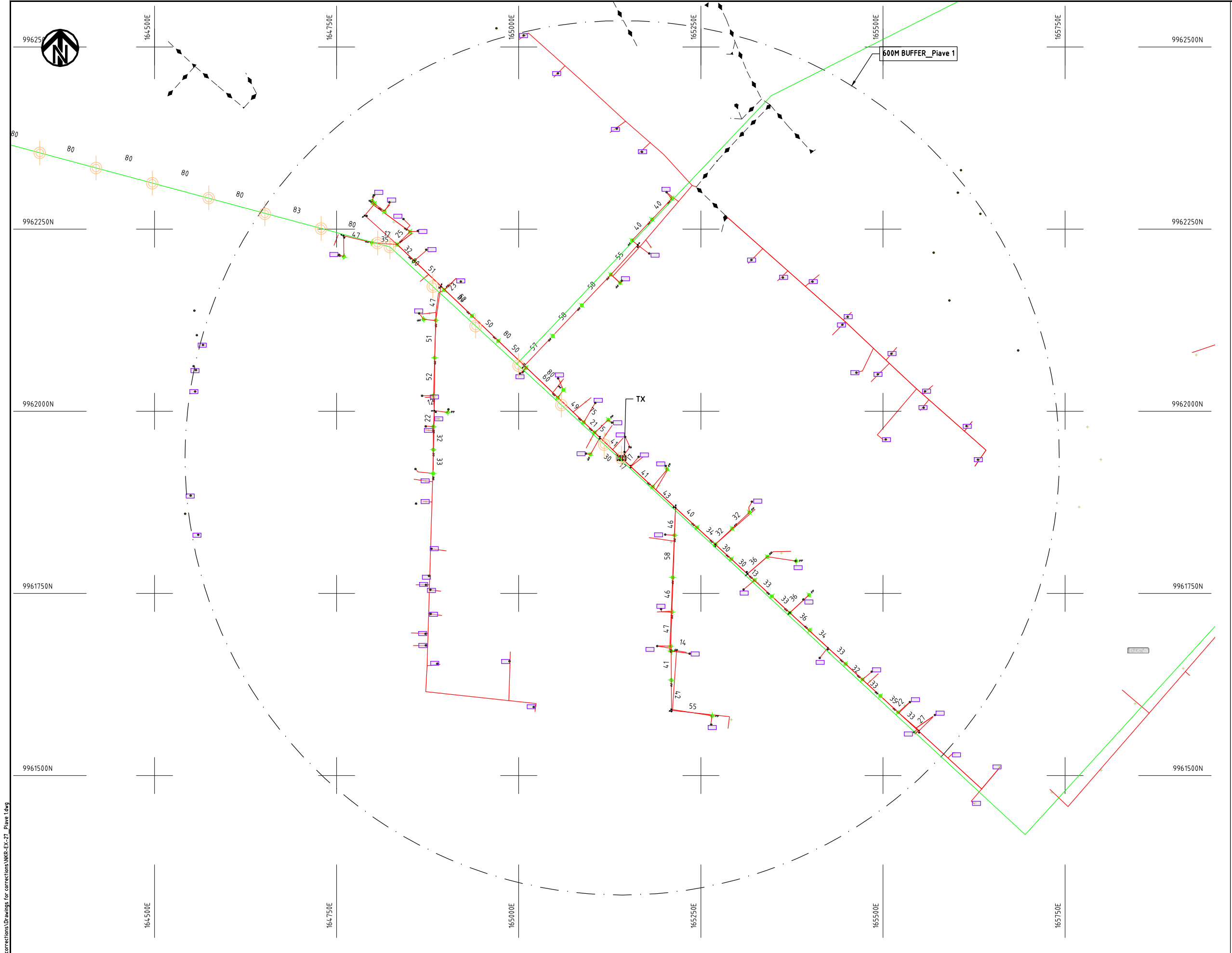
- HOUSEHOLDS/ BUILDINGS
- PROPOSED 11kV
- Proposed 33kV
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- WOODEN ELECTRIC POLES
- CP CONCRETE ELECTRIC POLES 12M
- CP CONCRETE ELECTRIC POLES 11M
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING STAY

1:1000 (A3)

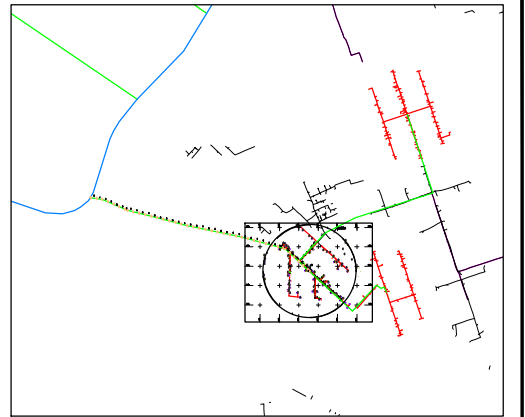
	PROJECT: THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA	DRAWING TITLE		DRAW. NO.	PREPARED BY	A.AKBAR
		COUNTY: NAKURU		NKR-EX-26	CHECKED BY	S.MAETA
		SCHEME: EXTENSION			APPROVED BY	Y.TANAKA
		PROJECT SITE: KAMASAAI MAUCHE			DATE	10th SEP 2018



NIPPON KOEI CO., LTD



- NOTES:**
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.



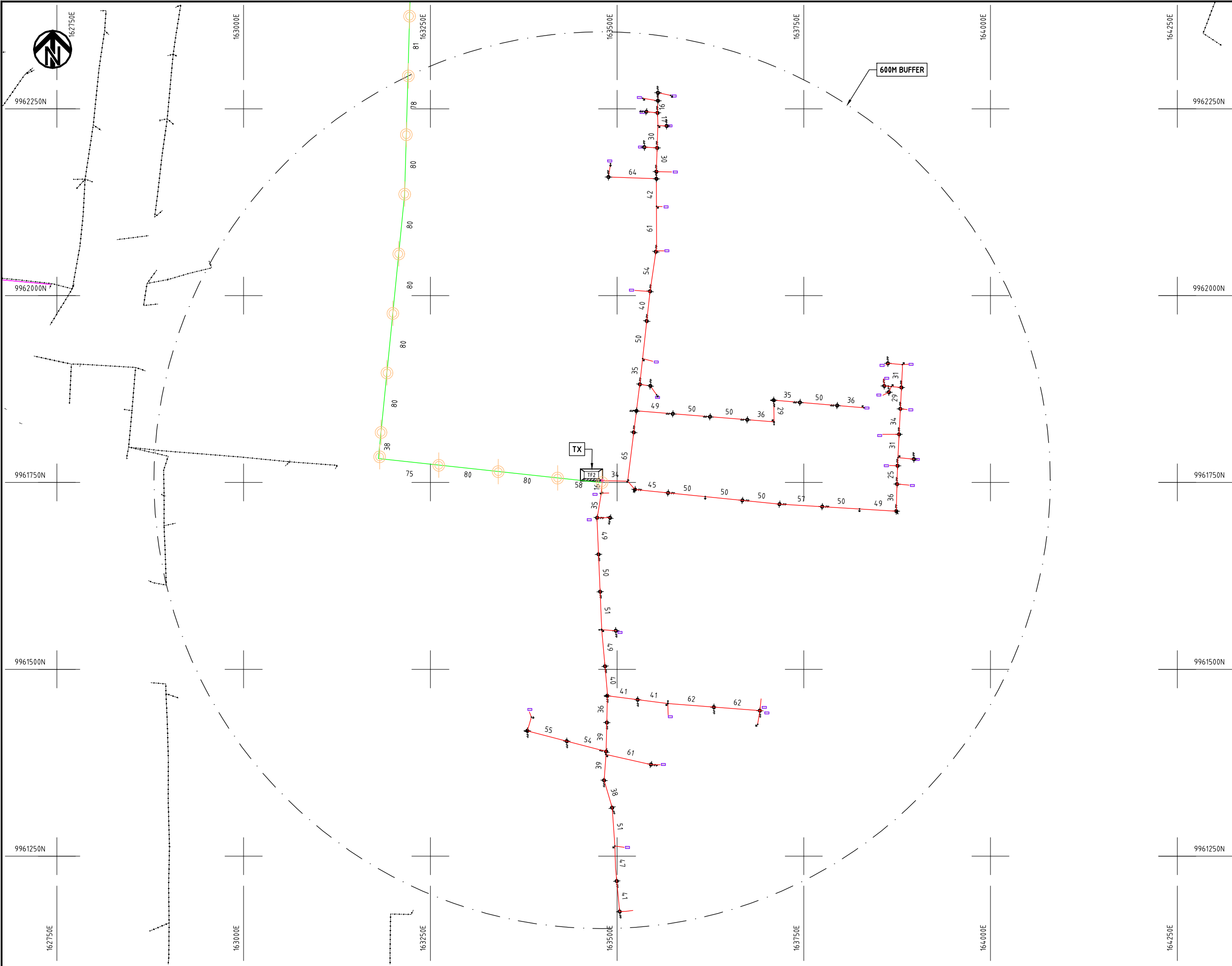
- LEGEND**
- HOUSEHOLDS/ BUILDINGS
 - PROPOSED 11kV
 - PROPOSED 33kV
 - PROPOSED DISTRIBUTION LINE
 - EXISTING 11kV LINE
 - EXISTING 33kV LINE
 - EXISTING DISTRIBUTION LINE
 - MAXIMISATION TRANSFORMER
 - EXTENSION TRANSFORMER
 - WOODEN ELECTRIC POLES
 - CONCRETE ELECTRIC POLES 12M
 - CONCRETE ELECTRIC POLES 11M
 - LV-EARTH
 - PME -PROTECTIVE MULTIPLE EARTHING
 - STAY



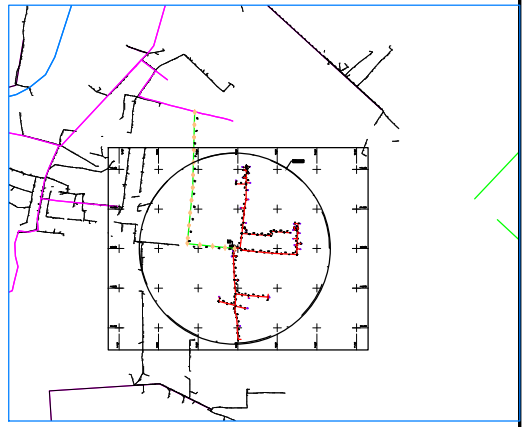
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PROJECT: THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA	DRAWING TITLE		DRAW. NO.	PREPARED BY	A.AKBAR
	COUNTY: NAKURU		NKR-EX-27	CHECKED BY	S.MAETA
	SCHEME: EXTENSION			APPROVED BY	Y.TANAKA
	PROJECT SITE: PIAVE 1			DATE	10th SEP 2018





- NOTES:**
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.

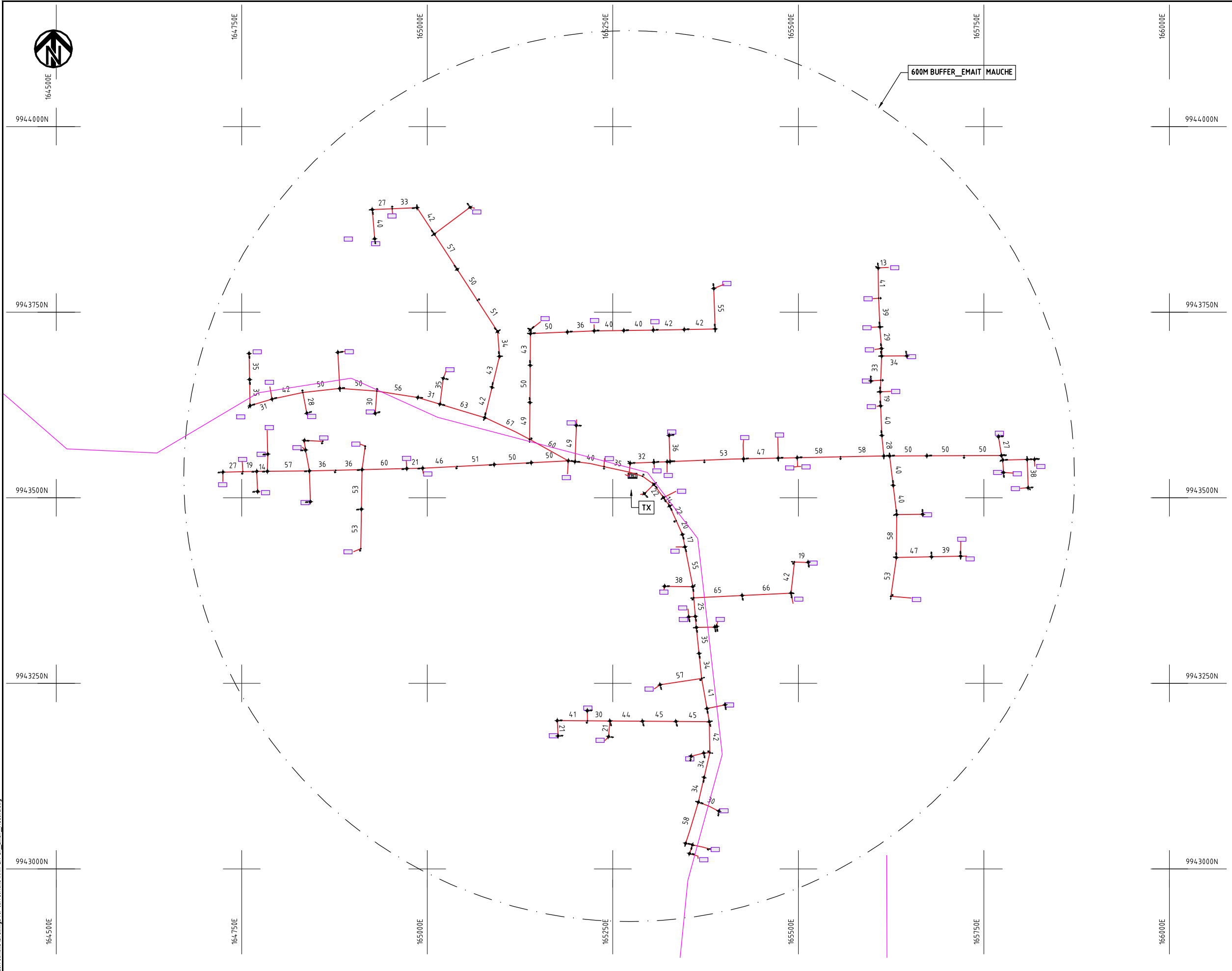


- HOUSEHOLDS/ BUILDINGS
- PROPOSED 11kV
- Proposed 33kV
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- WOODEN ELECTRIC POLES
- CP CONCRETE ELECTRIC POLES 12M
- CP CONCRETE ELECTRIC POLES 11M
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING STAY



	PROJECT: THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA	DRAWING TITLE		DRAW. NO.	PREPARED BY	A.AKBAR
		COUNTY: NAKURU SCHEME: EXTENSION PROJECT SITE: SUNRISE	NKR-EX-28	CHECKED BY	S.MAETA	
				APPROVED BY	Y.TANAKA	
				DATE	10th SEP 2018	





NOTES:

1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.

LEGEND

- HOUSEHOLDS/ BUILDINGS
- PROPOSED 11kV
- PROPOSED 33kV
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES 12M
- CONCRETE ELECTRIC POLES 11M
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING
- STAY

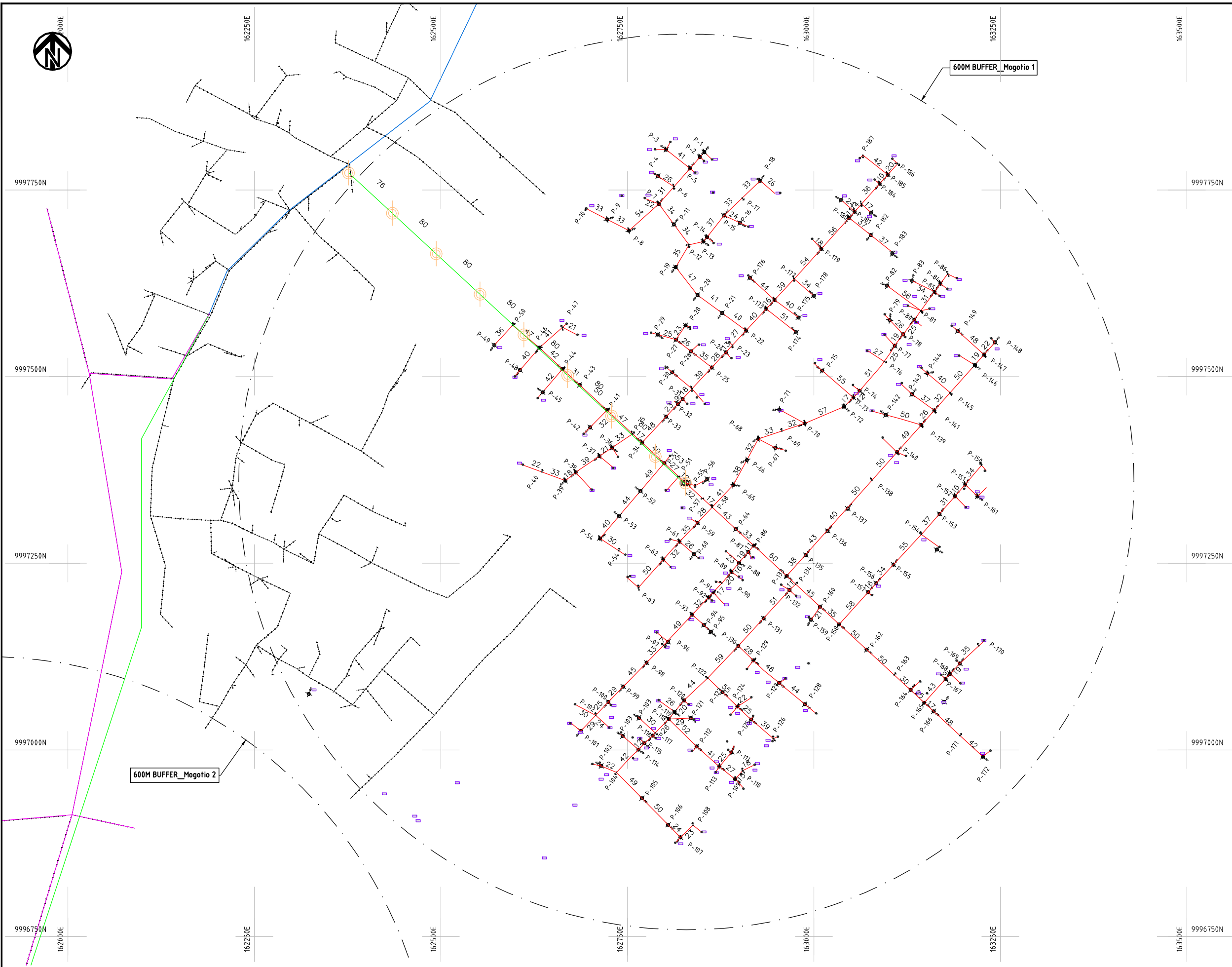
SCALE 1:5000 (A3)

PROJECT:
**THE PREPARATORY SURVEY
ON THE PROJECT FOR IMPROVEMENT
OF POWER DISTRIBUTION SYSTEM
IN THE REPUBLIC OF KENYA**

DRAWING TITLE
**COUNTY: NAKURU
SCHEME: EXTENSION
PROJECT SITE: EMAIT MAUCHE**

DRAW. NO.	PREPARED BY	A.AKBAR
NKR-EX-29	CHECKED BY	S.MAETA
	APPROVED BY	Y.TANAKA
	DATE	10th SEP 2018





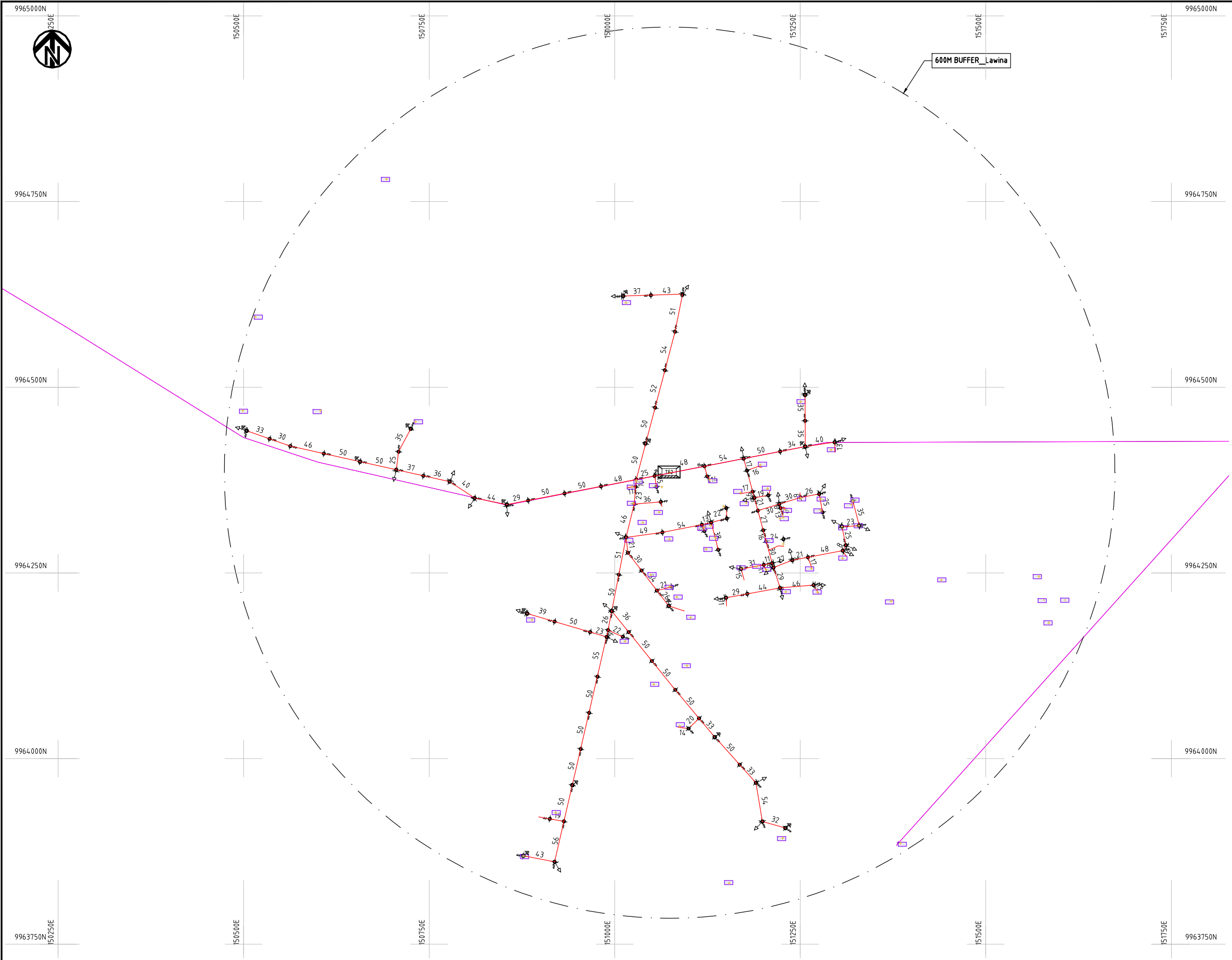
NOTES:

1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.

- HOUSEHOLDS/ BUILDINGS
- PROPOSED 11kV
- Proposed 33kV
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- PP WOODEN ELECTRIC POLES
- CP CONCRETE ELECTRIC POLES 12M
- CP CONCRETE ELECTRIC POLES 11M
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING STAY

(A3)

PROJECT:	DRAWING TITLE			DRAW. NO.		PREPARED BY		A.AKBAR
						CHECKED BY		S.MAETA
						APPROVED BY		Y.TANAKA
						DATE		10th SEP 2018
THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA			COUNTY: NAKURU	NKR-EX-30		 NIPPON KOEI CO., LTD		
			SCHEME: EXTENSION					
			PROJECT SITE: MOGOTIO 1					



NOTES:

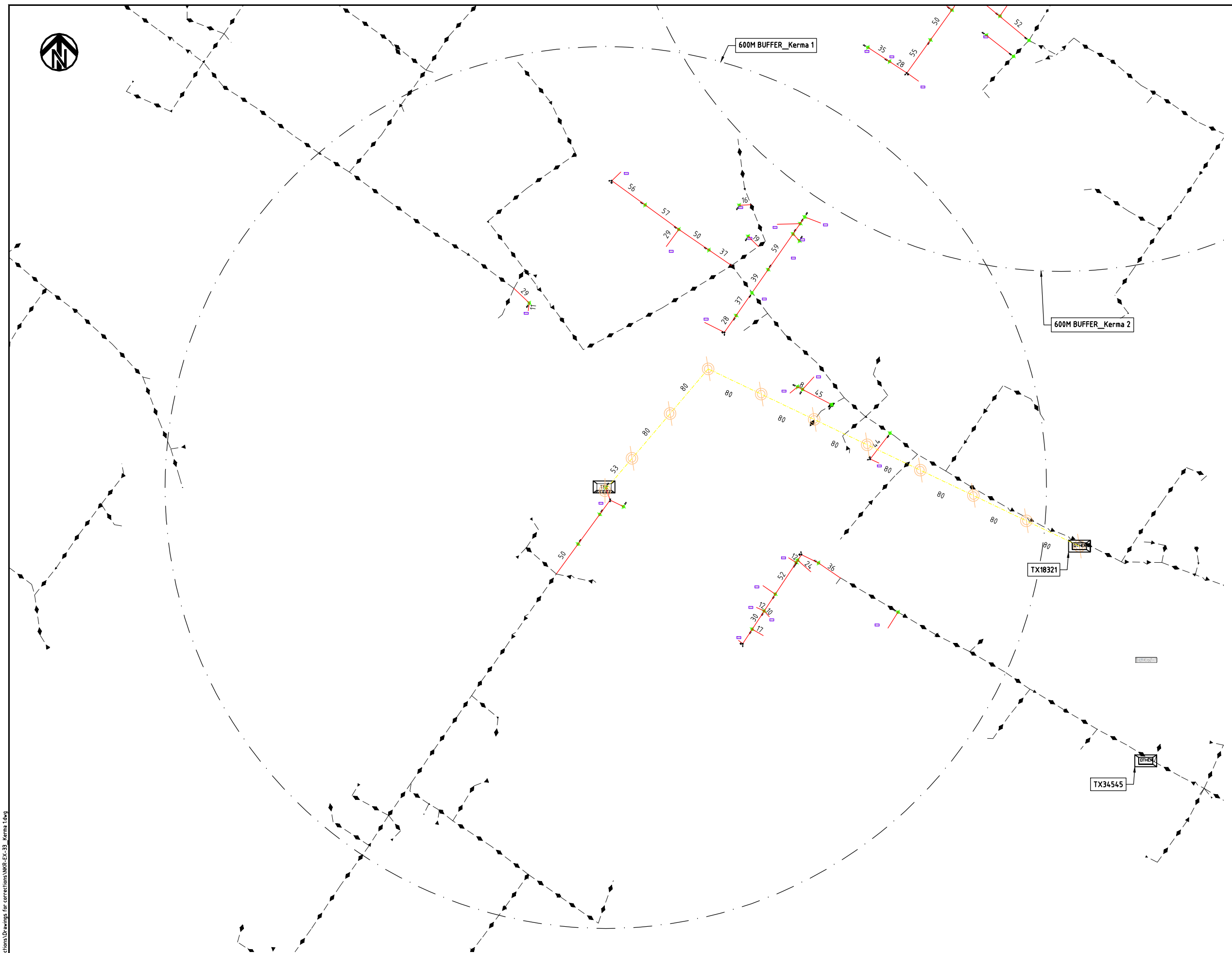
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.

- HOUSEHOLDS/ BUILDINGS
- PROPOSED 11kV
- Proposed 33kV
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- WOODEN ELECTRIC POLES
- CP CONCRETE ELECTRIC POLES 12M
- CP CONCRETE ELECTRIC POLES 11M
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING STAY



	PROJECT: THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA	DRAWING TITLE		DRAW. NO.	PREPARED BY	A.AKBAR
		COUNTY: NAKURU		NKR-EX-32	CHECKED BY	S.MAETA
		SCHEME: EXTENSION			APPROVED BY	Y.TANAKA
		PROJECT SITE: LAWINA			DATE	10th SEP 2018



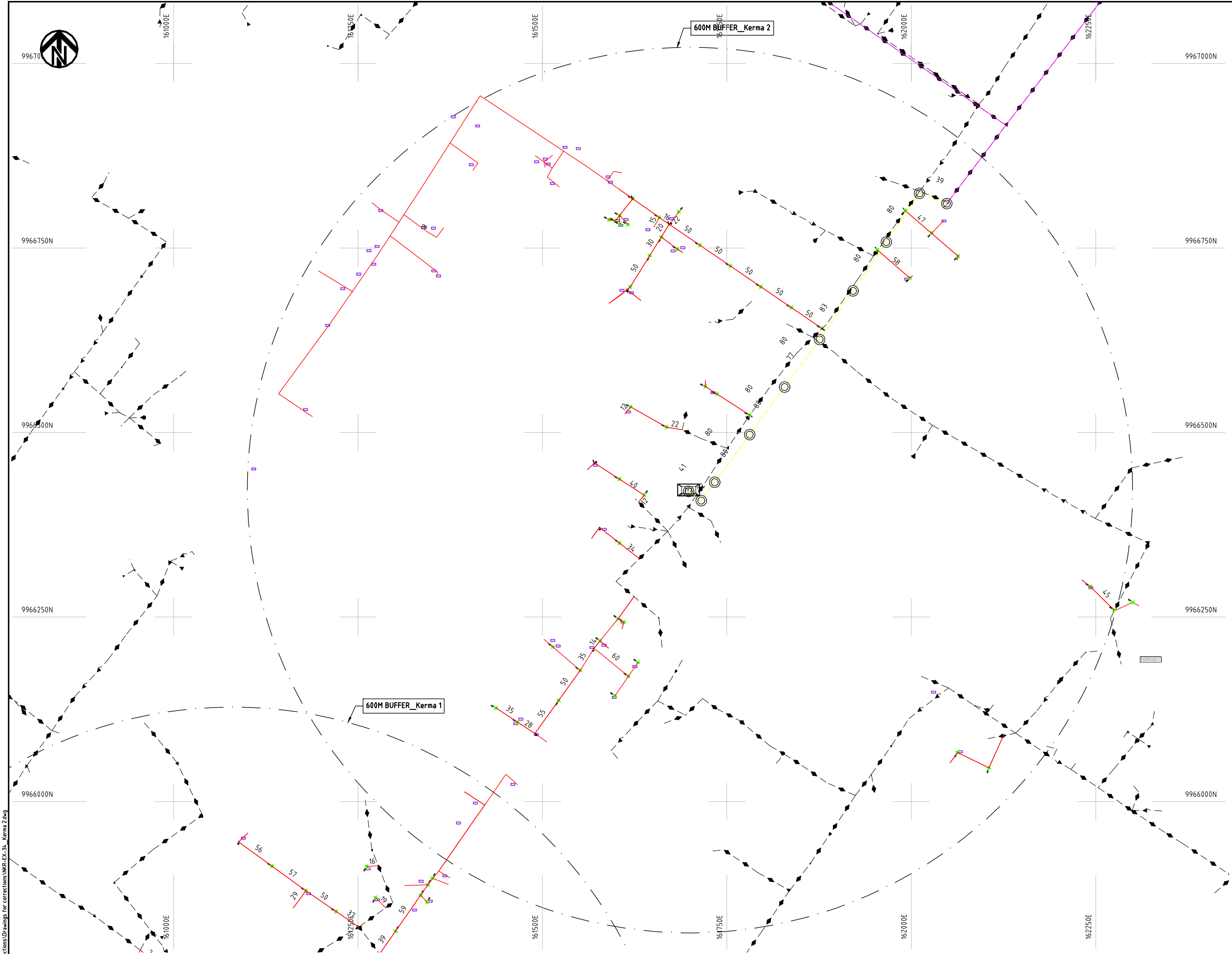


NOTES:

LEGEND

SCALE 1 : 5000  (A3)

PROJECT: THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA	DRAWING TITLE		DRAW. NO.	PREPARED BY	A.AKBAR
	COUNTY:	NAKURU	NKR-EX-33	CHECKED BY	S.MAETA
	SCHEME:	EXTENSION		APPROVED BY	Y.TANAKA
	PROJECT SITE:	KERMA 1		DATE	10th SEP 2018



- NOTES:**
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.

LEGEND

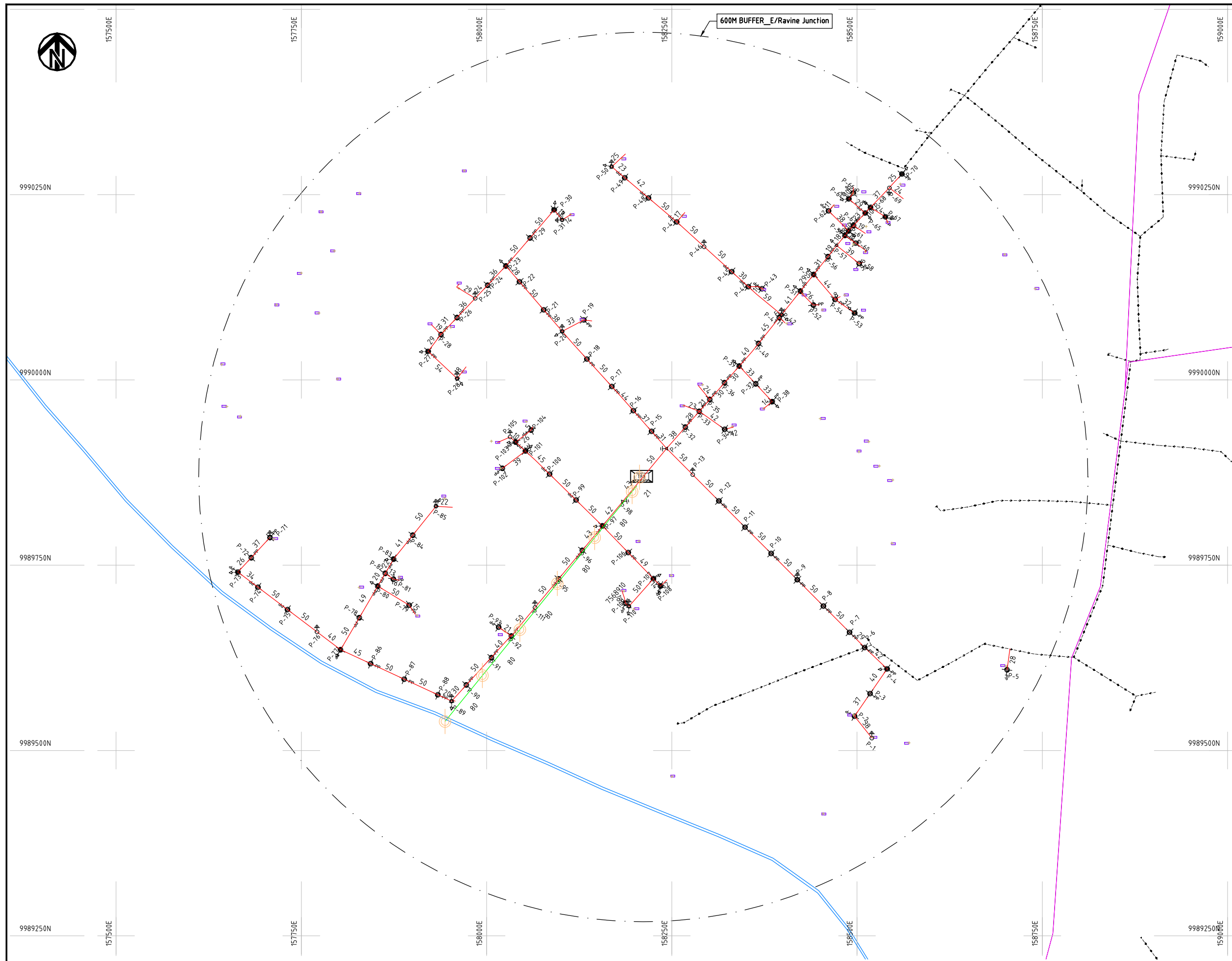
	HOUSEHOLDS/ BUILDINGS
	PROPOSED 11kV
	PROPOSED 33kV
	PROPOSED DISTRIBUTION LINE
	EXISTING 11kV LINE
	EXISTING 33kV LINE
	EXISTING DISTRIBUTION LINE
	MAXIMISATION TRANSFORMER
	EXTENSION TRANSFORMER
	WOODEN ELECTRIC POLES
	CONCRETE ELECTRIC POLES 12M
	CONCRETE ELECTRIC POLES 11M
	LV-EARTH
	PME -PROTECTIVE MULTIPLE EARTHING
	STAY

SCALE 1 : 5000 (A3)

Cad File No. G:\Drawings for corrections\Drawings for corrections\NKR-EX-34_Kerma 2.dwg

Ccd File No. 6\Drawings\2018	PROJECT: THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA	DRAWING TITLE		DRAW. NO.	PREPARED BY	A.AKBAR
		COUNTY: NAKURU SCHEME: EXTENSION PROJECT SITE: KERMA 2	NKR-EX-34	CHECKED BY	S.MAETA	
				APPROVED BY	Y.TANAKA	
				DATE	10th SEP 2018	





NOTES:

1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.

- HOUSEHOLDS/ BUILDINGS
- PROPOSED 11kV
- Proposed 33kV
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- WOODEN ELECTRIC POLES
- CP CONCRETE ELECTRIC POLES 12M
- CP CONCRETE ELECTRIC POLES 11M
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING STAY

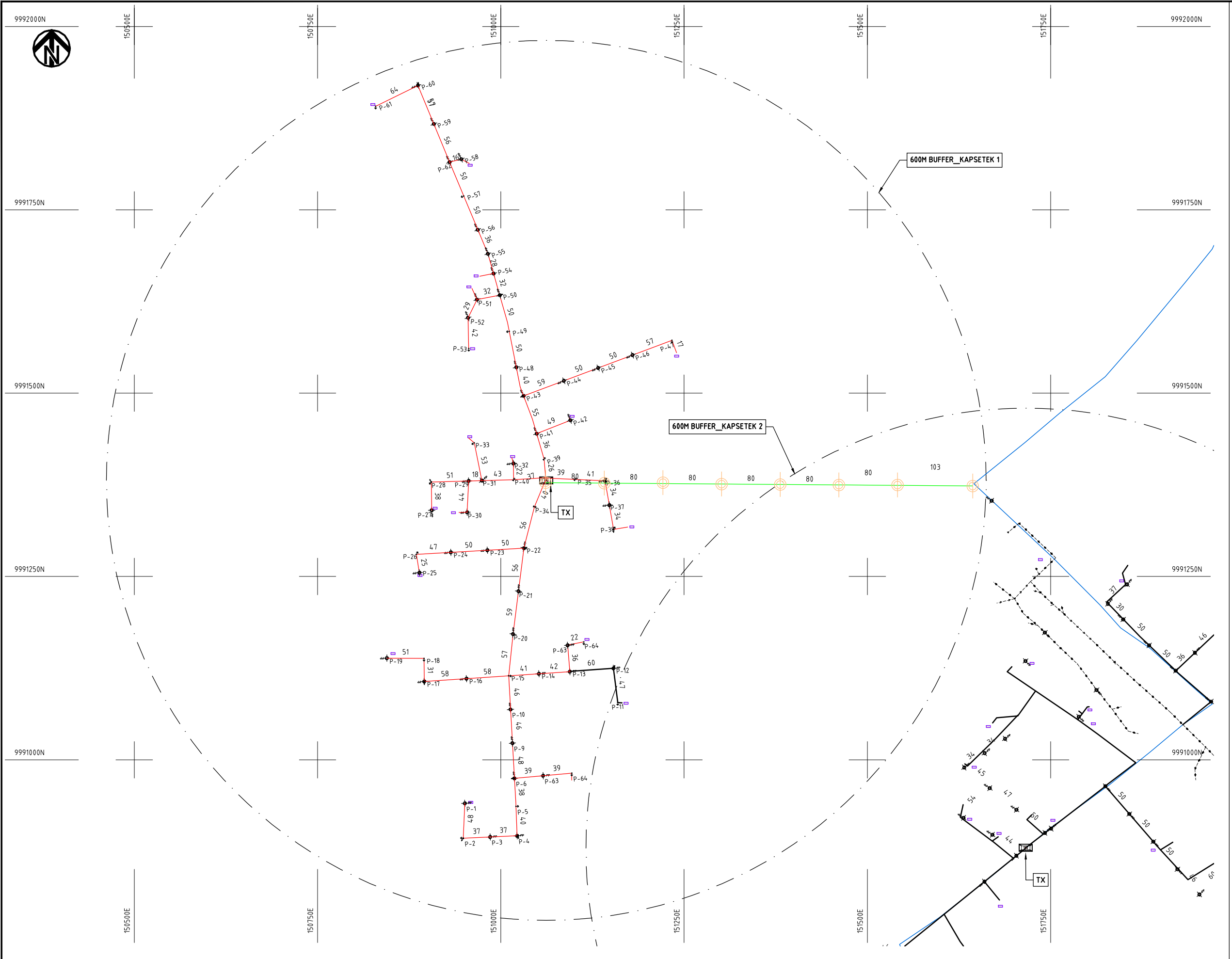
Scale bar and (A3) label.

PROJECT:
THE PREPARATORY SURVEY
ON THE PROJECT FOR IMPROVEMENT
OF POWER DISTRIBUTION SYSTEM
IN THE REPUBLIC OF KENYA

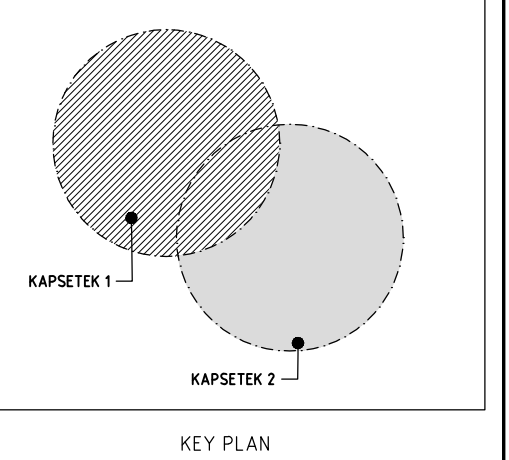
DRAWING TITLE
COUNTY: NAKURU
SCHEME: EXTENSION
PROJECT SITE: E/RAVINE JUNCTION

DRAW. NO.	PREPARED BY	A.AKBAR
NKR-EX-35	CHECKED BY	S.MAETA
	APPROVED BY	Y.TANAKA
	DATE	10th SEP 2018

NIPPON KOEI CO., LTD



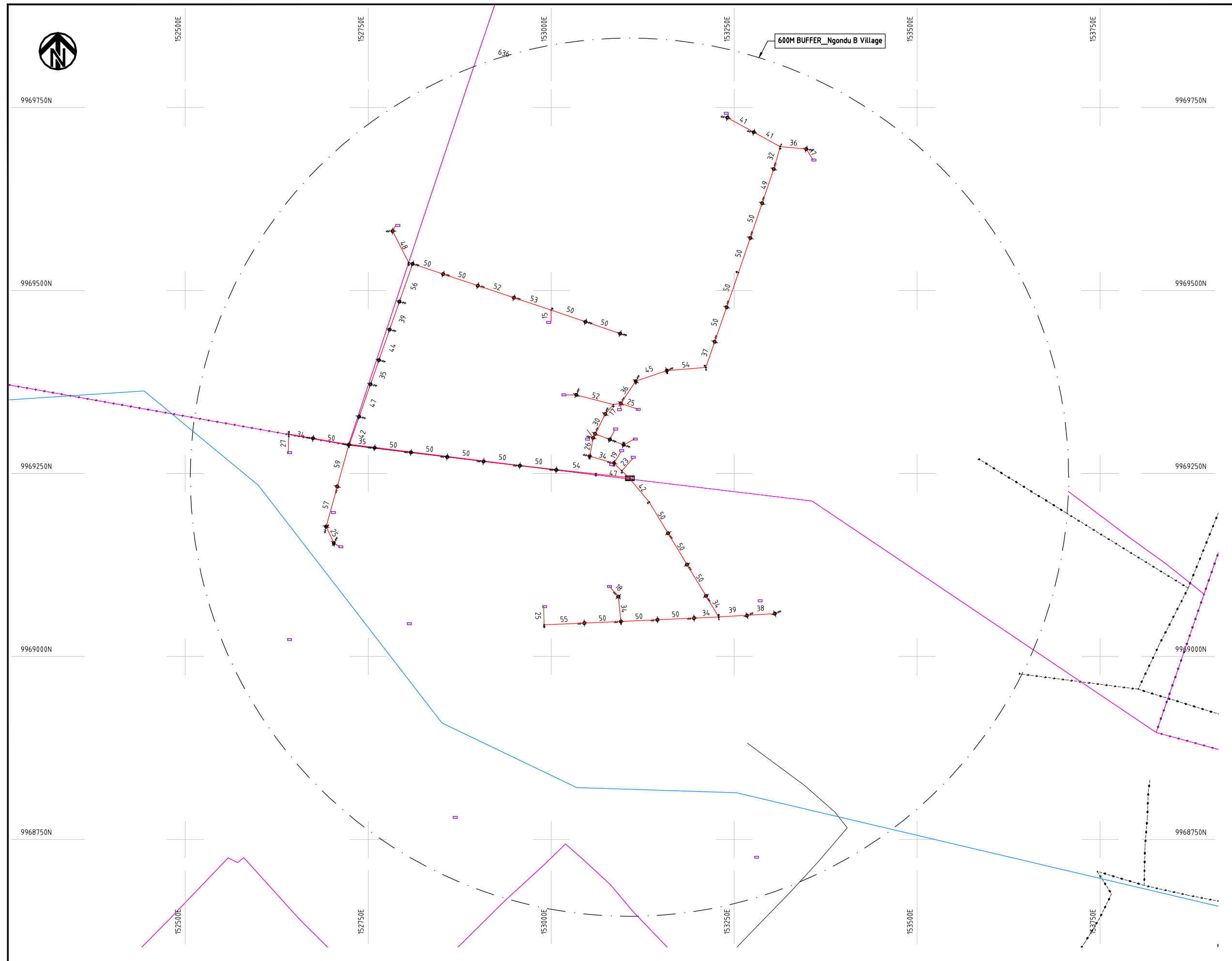
- NOTES:**
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.



- HOUSEHOLDS/ BUILDINGS
- PROPOSED 11kv
- Proposed 33kv
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kv LINE
- EXISTING 33kv LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- WOODEN ELECTRIC POLES
- CP CONCRETE ELECTRIC POLES 12M
- CP CONCRETE ELECTRIC POLES 11M
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING STAY



	PROJECT: THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA	DRAWING TITLE		DRAW. NO.	PREPARED BY	A.AKBAR
		COUNTY: NAKURU SCHEME: EXTENSION PROJECT SITE: KAPSETEK 2		NKR-EX-36	CHECKED BY	S.MAETA
					APPROVED BY	Y.TANAKA
					DATE	10th SEP 2018



1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.

-

THE PREPARATORY SURVEY
ON THE PROJECT FOR IMPROVEMENT
OF POWER DISTRIBUTION SYSTEM
IN THE REPUBLIC OF KENYA

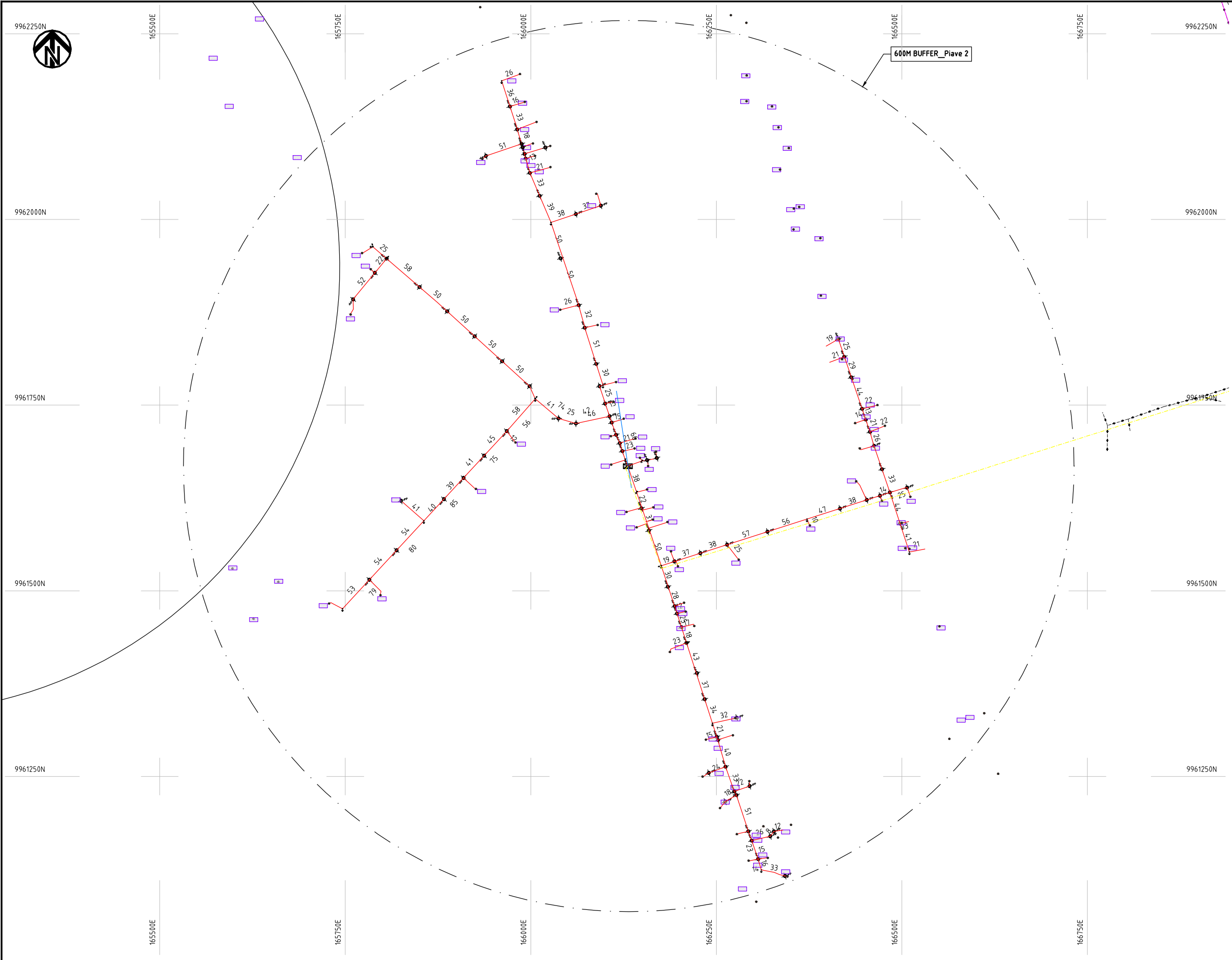
COUNTY: NAKURU
SCHEME: EXTENSION
PROJECT SITE: NGONDU B VILLAGE

NKR-EX-37

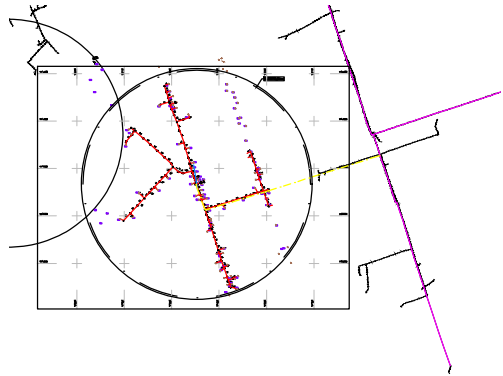
CHECKED BY
APPROVED BY
DATE

S.MAETA
Y.TANAKA
10th SEP 2018





- NOTES:**
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.



- HOUSEHOLDS/ BUILDINGS
- PROPOSED 11kV
- Proposed 33kV
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- WOODEN ELECTRIC POLES
- CP CONCRETE ELECTRIC POLES 12M
- CP CONCRETE ELECTRIC POLES 11M
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING STAY

PROJECT:	DRAWING TITLE			DRAW. NO.		PREPARED BY	A.AKBAR
						CHECKED BY	S.MAETA
	COUNTY: NAKURU SCHEME: EXTENSION PROJECT SITE: PIAVE 2			NKR-EX-38		APPROVED BY	Y.TANAKA
						DATE	10th SEP 2018



9964500N

9964250N

9964000N

9963750N

9963500N

165750E

166000E

166250E

166500E

166750E

167000E

600M BUFFER_Piave 3

9964500N

9964250N

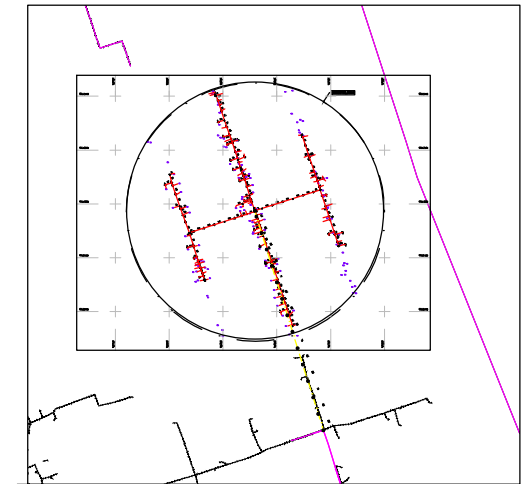
9964000N

9963750N

9963500N

NOTES:

1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.



- HOUSEHOLDS/ BUILDINGS
- PROPOSED 11kV
- Proposed 33kV
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- WOODEN ELECTRIC POLES
- CP CONCRETE ELECTRIC POLES 12M
- CP CONCRETE ELECTRIC POLES 11M
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING STAY

(A3)

PROJECT:

THE PREPARATORY SURVEY
ON THE PROJECT FOR IMPROVEMENT
OF POWER DISTRIBUTION SYSTEM
IN THE REPUBLIC OF KENYA

DRAWING TITLE

COUNTY: NAKURU
SCHEME: EXTENSION
PROJECT SITE: PIAVE 3

DRAW. NO.

NKR-EX-39

PREPARED BY

A.AKBAR

CHECKED BY

S.MAETA

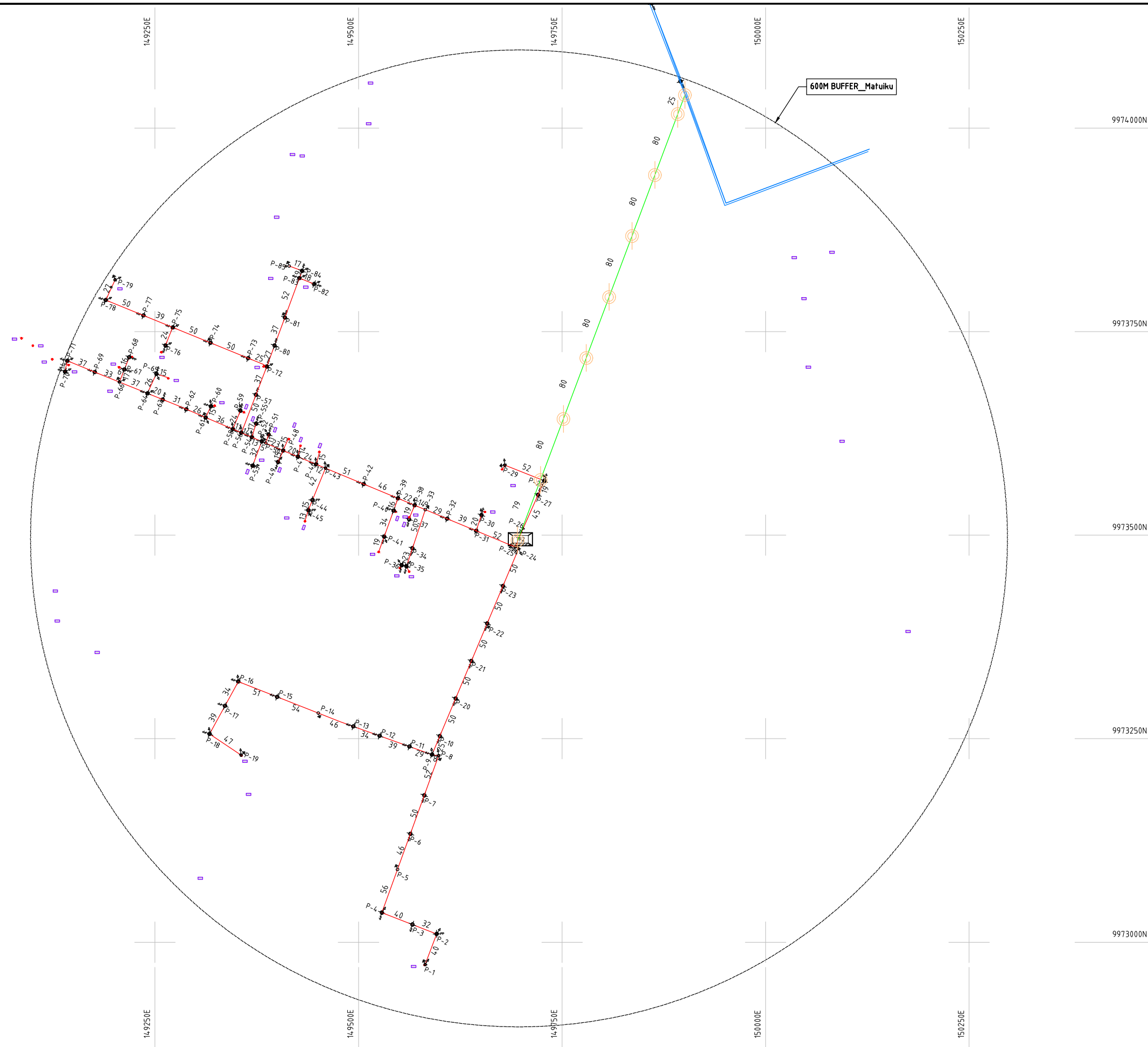
APPROVED BY

Y.TANAKA

DATE

10th SEP 2018

NIPPON KOEI CO., LTD



- NOTES:**
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.

- HOUSEHOLDS/ BUILDINGS
- PROPOSED 11kV
- Proposed 33kV
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- WOODEN ELECTRIC POLES
- CP CONCRETE ELECTRIC POLES 12M
- CP CONCRETE ELECTRIC POLES 11M
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING STAY

1:10000 (A3)

PROJECT:	DRAWING TITLE				DRAW. NO.	PREPARED BY	A.AKBAR
	COUNTY: NAKURU SCHEME: EXTENSION PROJECT SITE: MATUIKU				NKR-EX-41	CHECKED BY	S.MAETA
						APPROVED BY	Y.TANAKA
						DATE	10th SEP 2018





146750E

147000E

147250E

147500E

147750E

148000E

9975250N

9975000N

9974750N

9974500N

9974250N

146750E

147000E

147250E

147500E

147750E

148000E

600M BUFFER_Lelechwet

NOTES:

1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.

- HOUSEHOLDS/ BUILDINGS
- PROPOSED 11kV
- Proposed 33kV
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- WOODEN ELECTRIC POLES
- CP CONCRETE ELECTRIC POLES 12M
- CP CONCRETE ELECTRIC POLES 11M
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING STAY

(A3)

PROJECT:

THE PREPARATORY SURVEY
ON THE PROJECT FOR IMPROVEMENT
OF POWER DISTRIBUTION SYSTEM
IN THE REPUBLIC OF KENYA

DRAWING TITLE

COUNTY: NAKURU
SCHEME: EXTENSION
PROJECT SITE: LELECHWET

DRAW. NO.

NKR-EX-42

PREPARED BY

A.AKBAR

CHECKED BY

S.MAETA

APPROVED BY

Y.TANAKA

DATE

10th SEP 2018



NIPPON KOEI CO., LTD



154250E

154500E

154750E

155000E

155250E

155500E

9977500N

9977500N

9977250N

9977250N

9977000N

9977000N

9976750N

9976750N

9976500N

9976500N

154250E

154500E

154750E

155000E

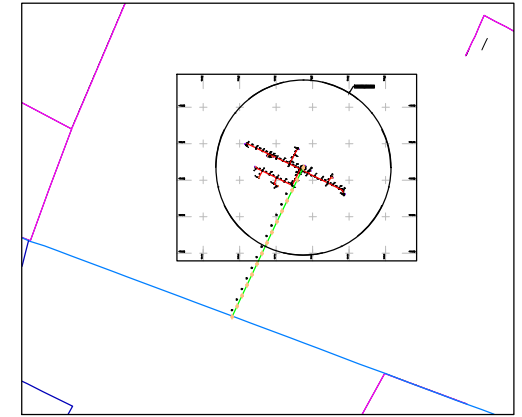
155250E

155500E

600M BUFFER_Gicheha Farm

NOTES:

1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
2. CONCRETE / WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.



- HOUSEHOLDS/ BUILDINGS
- PROPOSED 11kV
- Proposed 33kV
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- PP WOODEN ELECTRIC POLES
- CP CONCRETE ELECTRIC POLES 12M
- CP CONCRETE ELECTRIC POLES 11M
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING STAY

(A3)

PROJECT:

THE PREPARATORY SURVEY
ON THE PROJECT FOR IMPROVEMENT
OF POWER DISTRIBUTION SYSTEM
IN THE REPUBLIC OF KENYA

DRAWING TITLE

COUNTY: NAKURU
SCHEME: EXTENSION
PROJECT SITE: GICHEHA FARM

DRAW. NO.

NKR-EX-43

PREPARED BY

A.AKBAR

CHECKED BY

S.MAETA

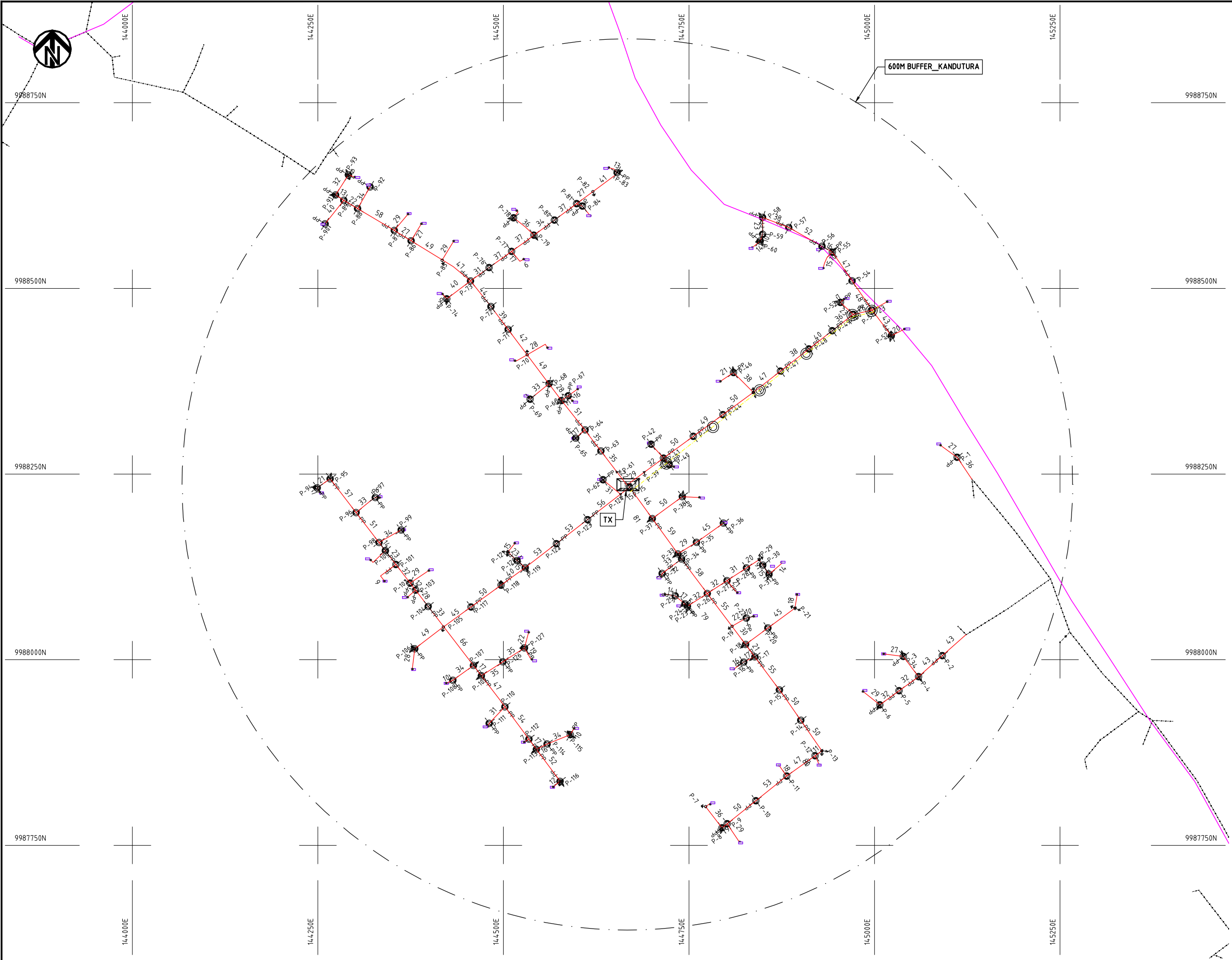
APPROVED BY

Y.TANAKA

DATE

10th SEP 2018

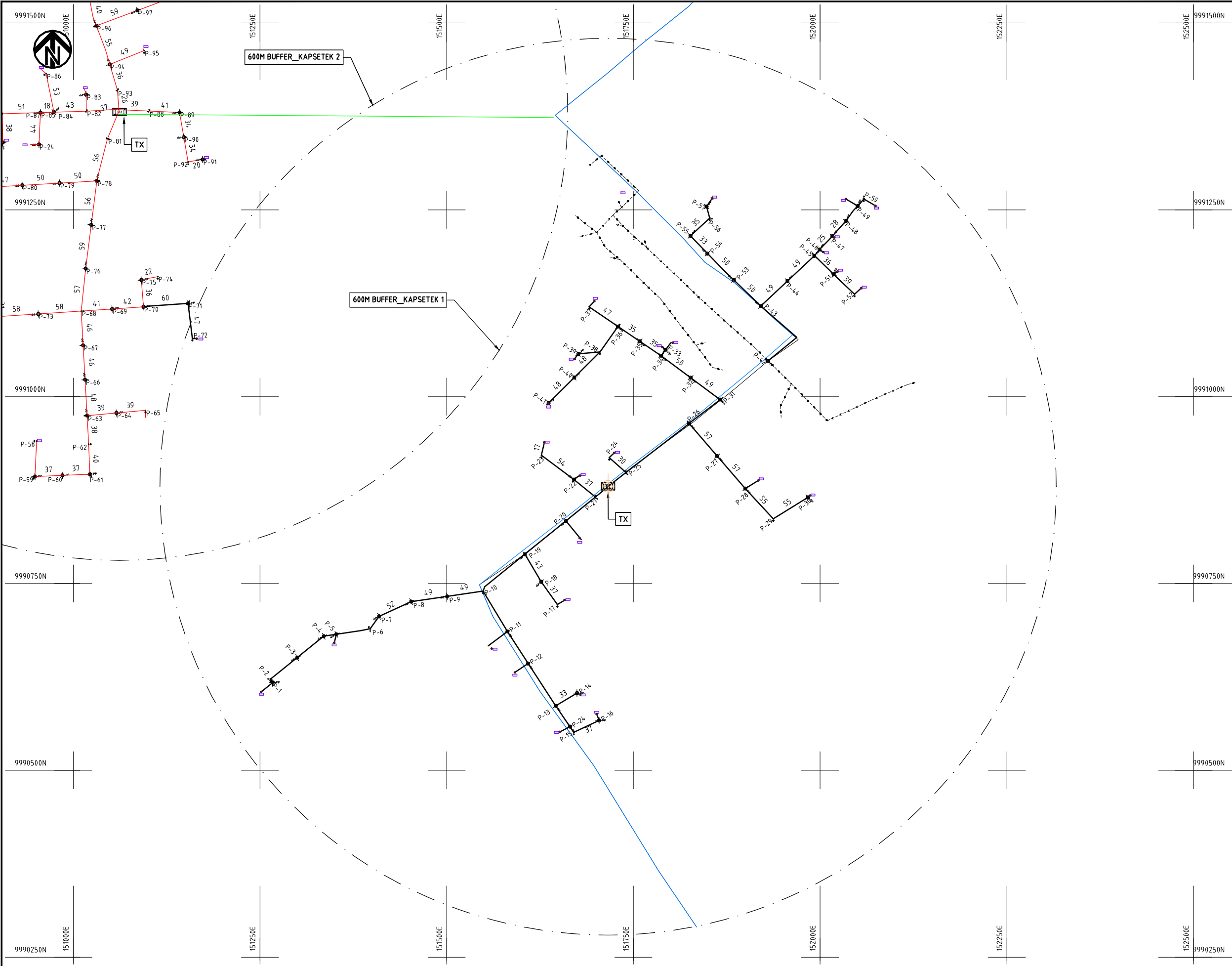
NIPPON KOEI CO., LTD



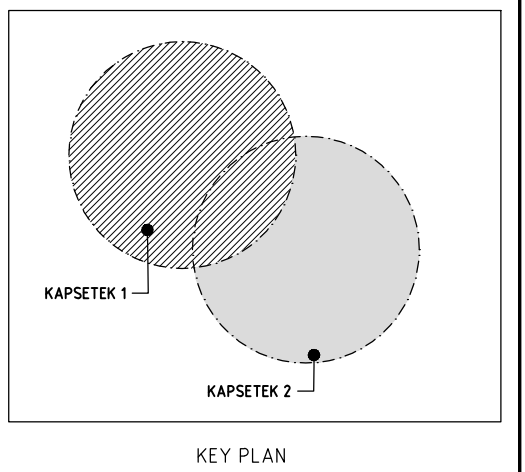
- NOTES:**
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.

- HOUSEHOLDS/ BUILDINGS
- PROPOSED 11kV
- Proposed 33kV
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- WOODEN ELECTRIC POLES
- CP CONCRETE ELECTRIC POLES 12M
- CP CONCRETE ELECTRIC POLES 11M
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING STAY

PROJECT:	DRAWING TITLE			DRAW. NO.		PREPARED BY	A.AKBAR
						CHECKED BY	S.MAETA
						APPROVED BY	Y.TANAKA
						DATE	10th SEP 2018
THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA			COUNTY: NAKURU SCHEME: EXTENSION PROJECT SITE: KANDUTURA	NKR-EX-44			

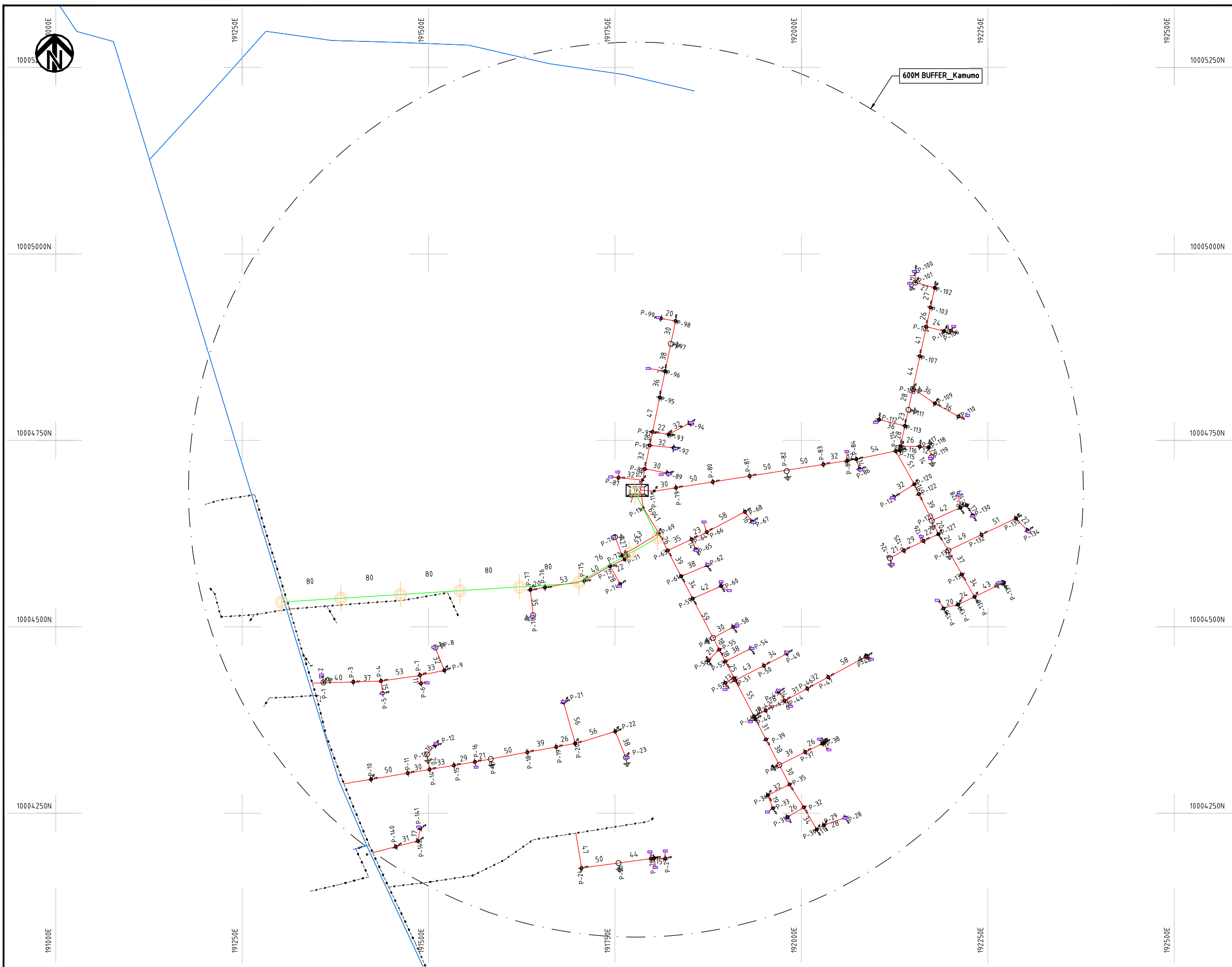


- NOTES:**
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.



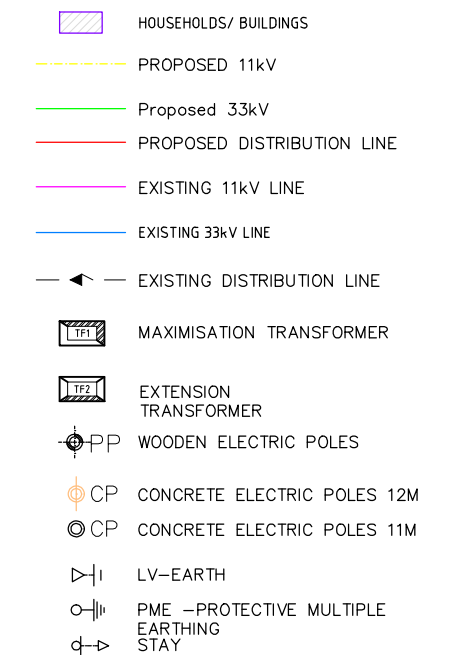
- HOUSEHOLDS/ BUILDINGS
- PROPOSED 11kV
- Proposed 33kV
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES 12M
- CONCRETE ELECTRIC POLES 11M
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING STAY

	PROJECT: THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA	DRAWING TITLE		DRAW. NO.	PREPARED BY	A.AKBAR
		COUNTY: NAKURU SCHEME: EXTENSION PROJECT SITE: KAPSETEK 1		NKR-EX-45	CHECKED BY	S.MAETA
					APPROVED BY	Y.TANAKA
					DATE	10th SEP 2018



NOTES:

1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.



	PROJECT: THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA	DRAWING TITLE		DRAW. NO.	PREPARED BY	A.AKBAR
		COUNTY: NAKURU		NKR-EX-46	CHECKED BY	S.MAETA
		SCHEME: EXTENSION			APPROVED BY	Y.TANAKA
		PROJECT SITE: KAMUMO			DATE	10th SEP 2018





10006500N

10006250N

10006000N

10005750N

10005500N

192000E

192250E

192500E

192750E

193000E

193250E

10006500N

10006250N

10006000N

10005750N

10005500N

192000E

192250E

192500E

192750E

193000E

193250E

600M BUFFER_Mihango

NOTES:

1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.

- HOUSEHOLDS/ BUILDINGS
- PROPOSED 11kV
- Proposed 33kV
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- WOODEN ELECTRIC POLES
- CP CONCRETE ELECTRIC POLES 12M
- CP CONCRETE ELECTRIC POLES 11M
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING STAY

1:10000 (A3)

PROJECT:

THE PREPARATORY SURVEY
ON THE PROJECT FOR IMPROVEMENT
OF POWER DISTRIBUTION SYSTEM
IN THE REPUBLIC OF KENYA

DRAWING TITLE

COUNTY: NAKURU
SCHEME: EXTENSION
PROJECT SITE: MIHANGO

DRAW. NO.

NKR-EX-47

PREPARED BY

A.AKBAR

CHECKED BY

S.MAETA

APPROVED BY

Y.TANAKA

DATE

10th SEP 2018



NIPPON KOEI CO., LTD



191500E

191750E

192000E

192250E

192500E

192750E

10009500N

10009250N

10009000N

10008750N

10008500N

191500E

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192000E

192250E

192500E

192750E

10009500N

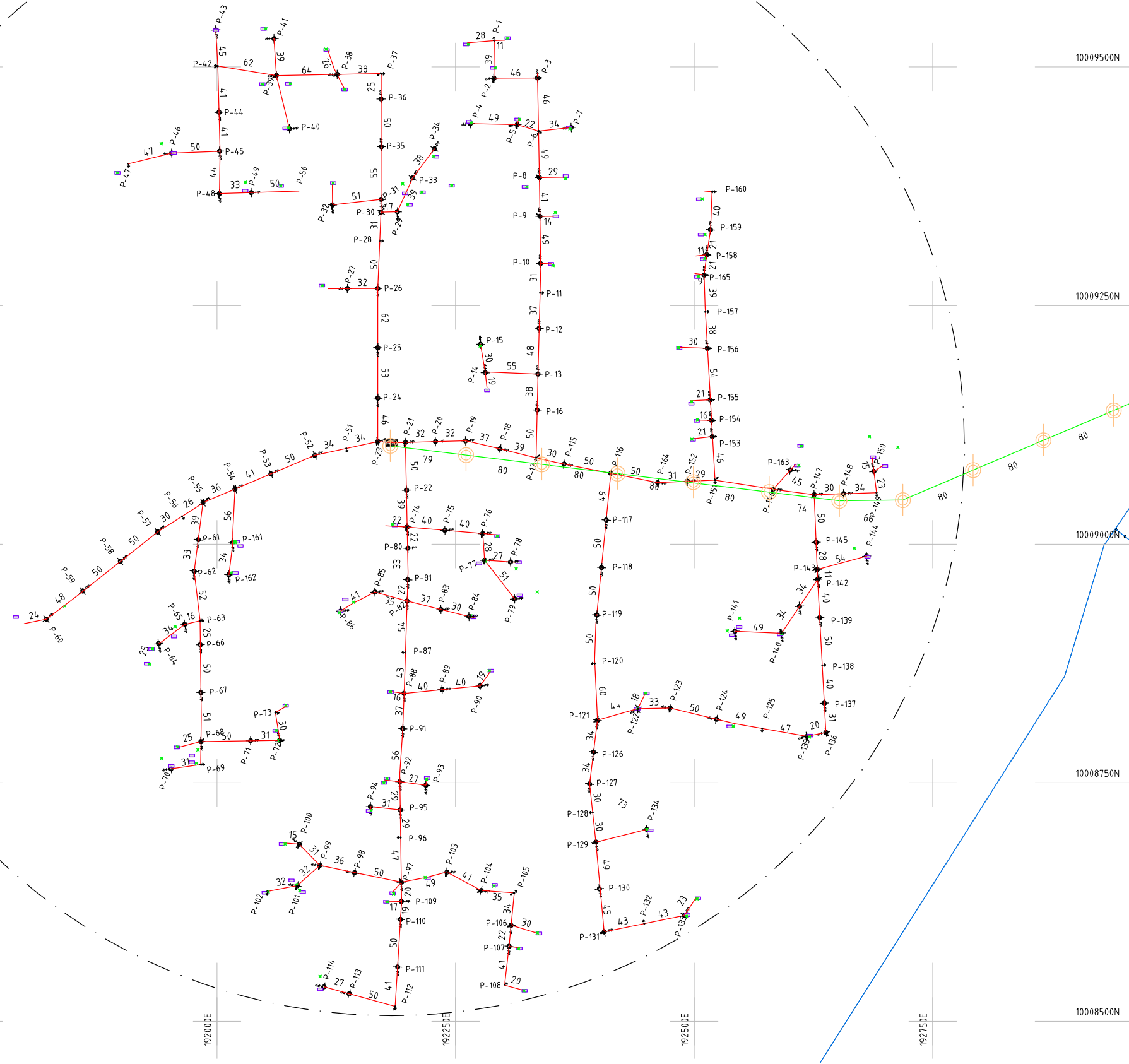
10009250N

10009000N

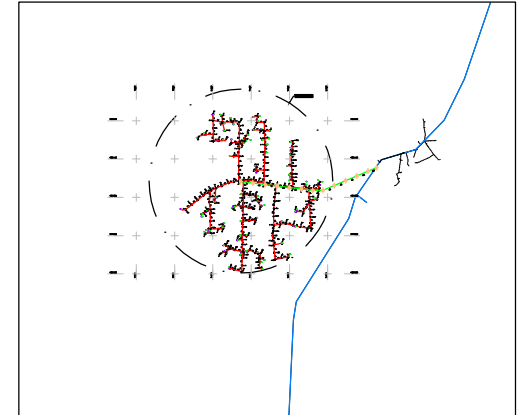
10008750N

10008500N

600M BUFFER_Simboyon

**NOTES:**

1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.



- HOUSEHOLDS/ BUILDINGS
- PROPOSED 11kV
- Proposed 33kV
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- WOODEN ELECTRIC POLES
- CP CONCRETE ELECTRIC POLES 12M
- CP CONCRETE ELECTRIC POLES 11M
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING STAY

(A3)

PROJECT:

THE PREPARATORY SURVEY
ON THE PROJECT FOR IMPROVEMENT
OF POWER DISTRIBUTION SYSTEM
IN THE REPUBLIC OF KENYA

DRAWING TITLE

COUNTY: NAKURU
SCHEME: EXTENSION
PROJECT SITE: SIMBOYON

DRAW. NO.

NKR-EX-48

PREPARED BY

A.AKBAR

CHECKED BY

S.MAETA

APPROVED BY

Y.TANAKA

DATE

10th SEP 2018



NIPPON KOEI CO., LTD



190250E

190500E

190750E

191000E

191250E

191500E

10009000N

10008750N

10008500N

10008250N

10008000N

190250E

190500E

190750E

191000E

191250E

191500E

10008000N

10008250N

10008500N

10008750N

10009000N

600M BUFFER_Kaptarakwa

NOTES:

1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.

- HOUSEHOLDS/ BUILDINGS
- PROPOSED 11kV
- Proposed 33kV
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- PP WOODEN ELECTRIC POLES
- CP CONCRETE ELECTRIC POLES 12M
- CP CONCRETE ELECTRIC POLES 11M
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING STAY

(A3)

PROJECT:

THE PREPARATORY SURVEY
ON THE PROJECT FOR IMPROVEMENT
OF POWER DISTRIBUTION SYSTEM
IN THE REPUBLIC OF KENYA

DRAWING TITLE

COUNTY: NAKURU
SCHEME: EXTENSION
PROJECT SITE: KAPTARAKWA

DRAW. NO.

NKR-EX-49

PREPARED BY

A.AKBAR

CHECKED BY

S.MAETA

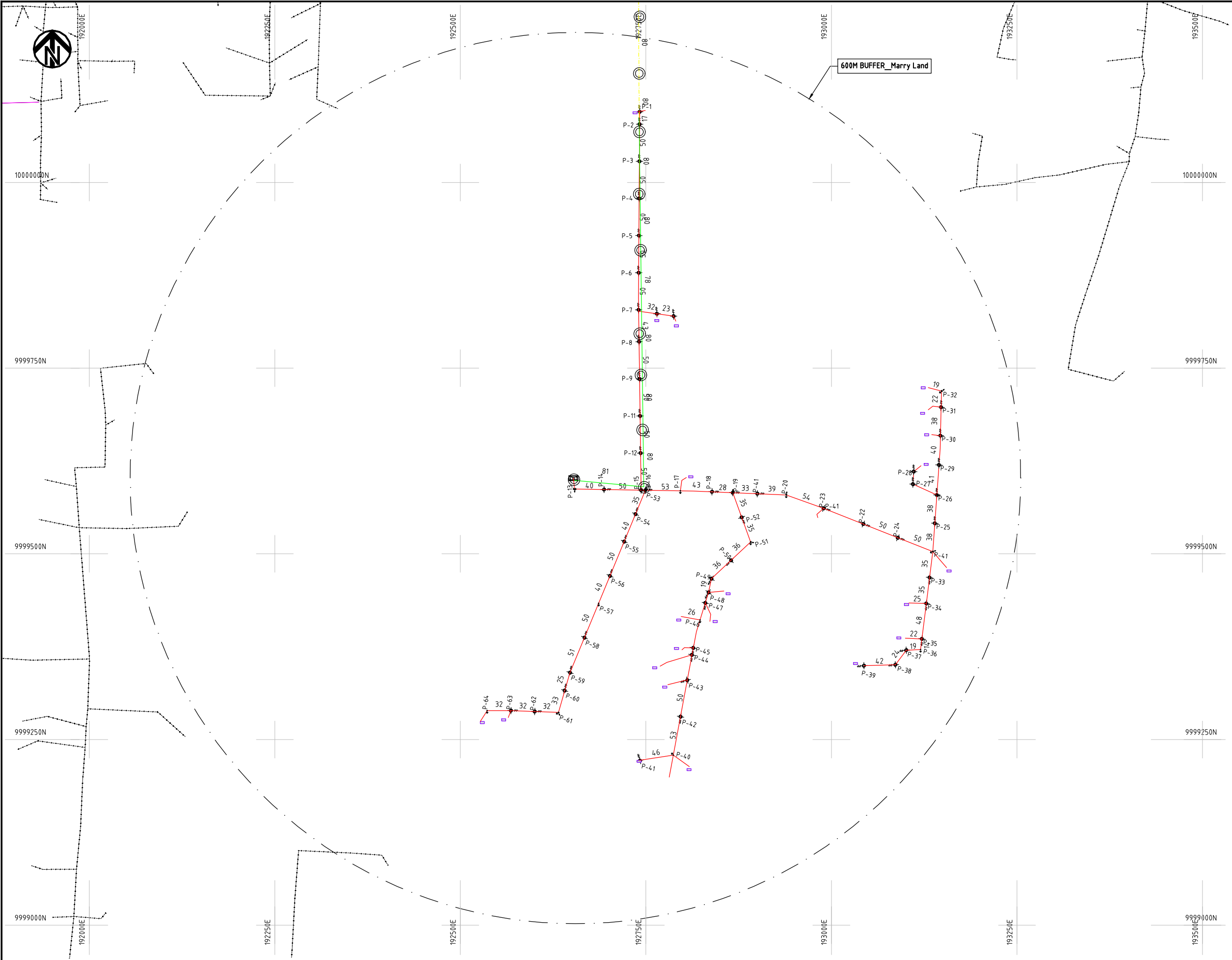
APPROVED BY

Y.TANAKA

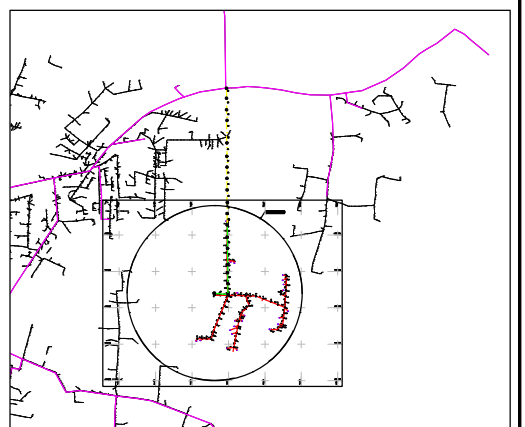
DATE

10th SEP 2018

NIPPON KOEI CO., LTD



- NOTES:**
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.



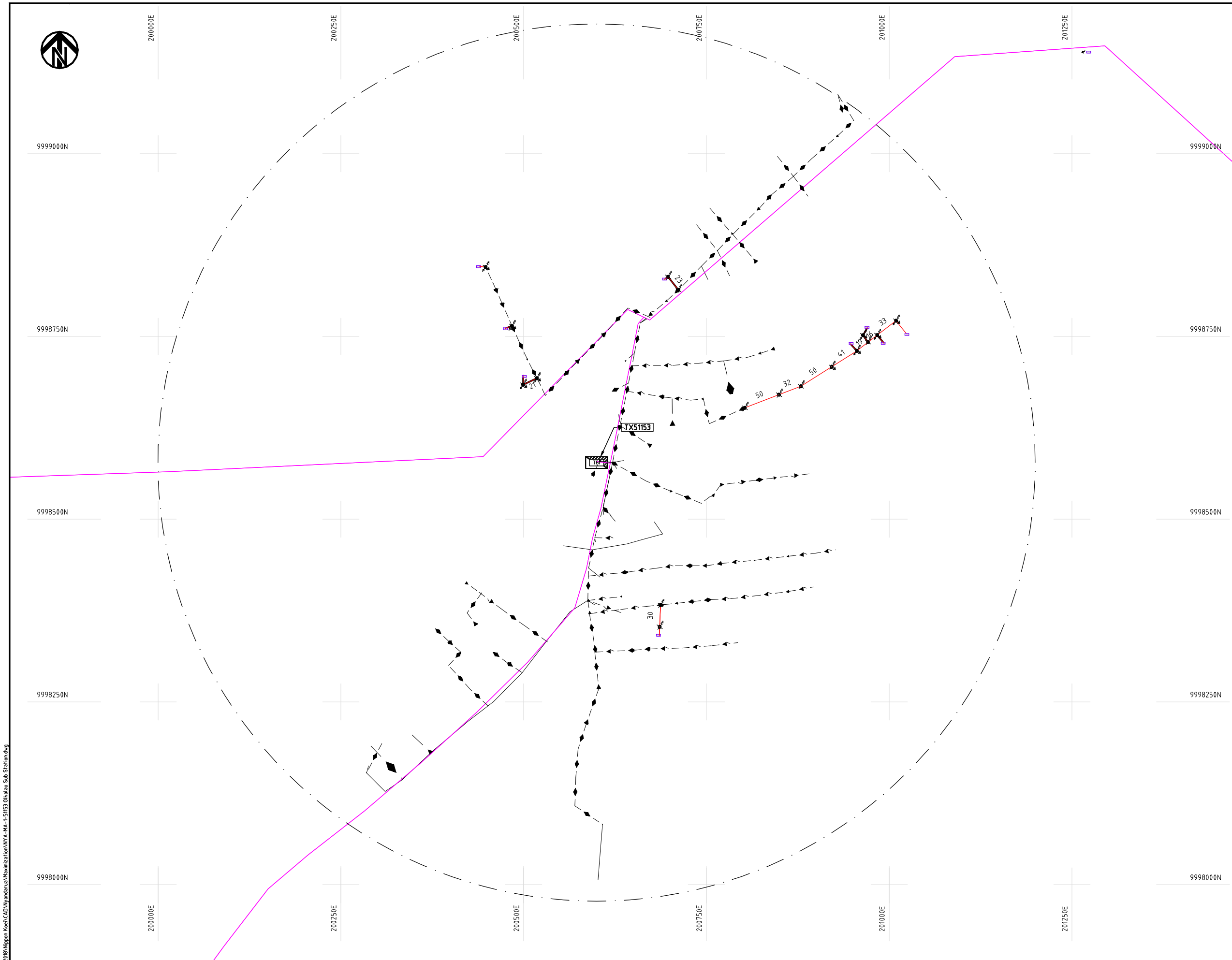
- HOUSEHOLDS/ BUILDINGS
- PROPOSED 11kV
- Proposed 33kV
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES 12M
- CONCRETE ELECTRIC POLES 11M
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING STAY



	PROJECT: THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA	DRAWING TITLE		DRAW. NO.	PREPARED BY	A.AKBAR
		COUNTY: NAKURU SCHEME: EXTENSION PROJECT SITE: MARRY LAND		NKR-EX-50	CHECKED BY	S.MAETA
					APPROVED BY	Y.TANAKA
					DATE	10th SEP 2018

ニャンダルア郡

Maximization



NOTES:

1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
2. CONCRETE / WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.
5. POLES NOT SHOWN WHERE PME OR LV EARTH INTERSECT FOR CLARITY.

LEGEND

- HOUSEHOLDS/ BUILDINGS
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- OTHER EXISTING TRANSFORMER
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING
- STAY

SCALE 1: 5000 (A3)

PROJECT:

THE PREPARATORY SURVEY
ON THE PROJECT FOR IMPROVEMENT
OF POWER DISTRIBUTION SYSTEM
IN THE REPUBLIC OF KENYA

DRAWING TITLE

COUNTY: NYANDARUA
SCHEME: MAXIMIZATION
PROJECT SITE: 51153-0lkalau Substation

DRAW. NO.

NYA-MA-1

PREPARED BY

A.AKBAR

CHECKED BY

S.MAETA

APPROVED BY

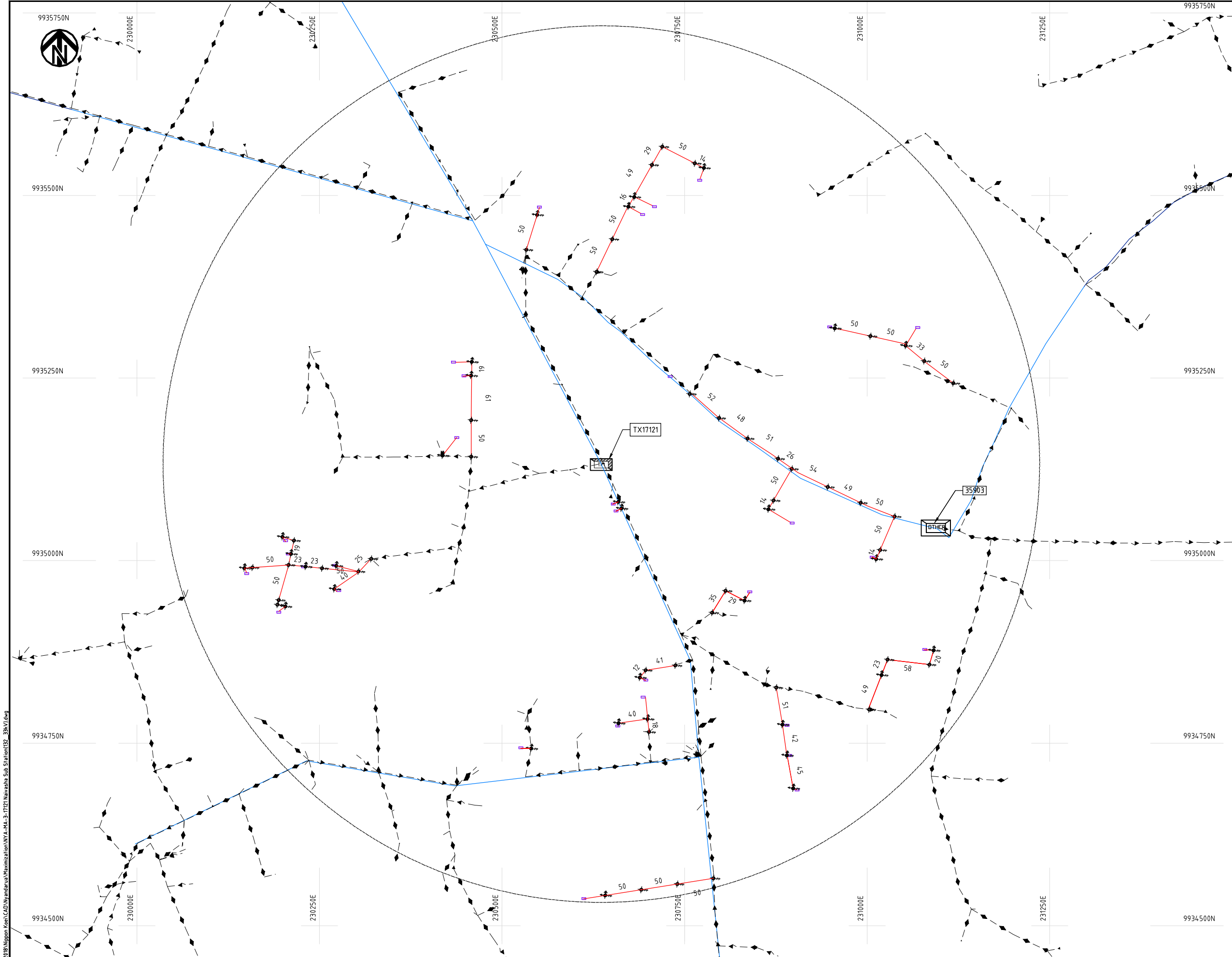
Y.TANAKA

DATE

10th SEP 2018



NIPPON KOEI CO., LTD



- NOTES:**
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.
 5. POLES NOT SHOWN WHERE PME OR LV EARTH INTERSECT FOR CLARITY.

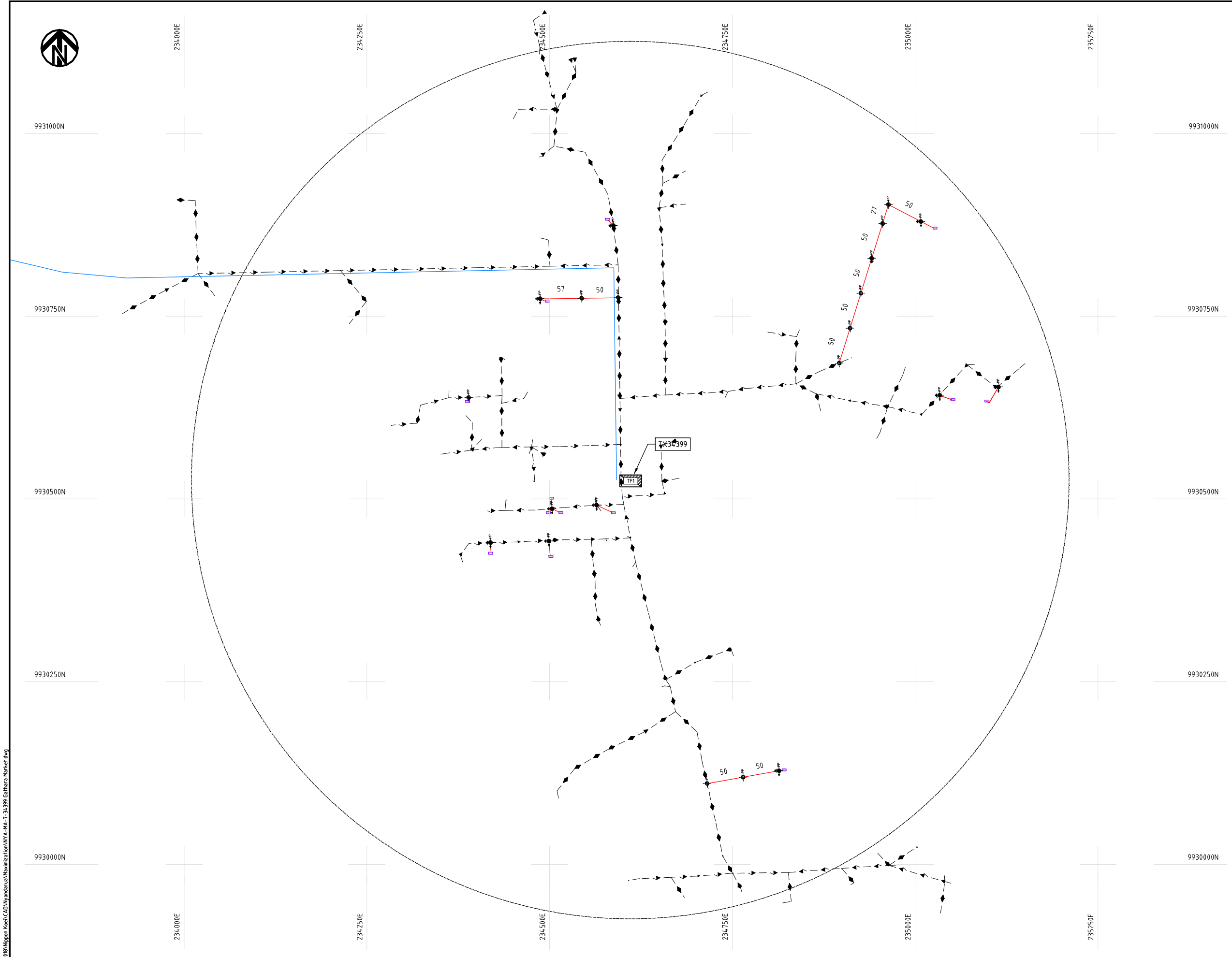
- LEGEND**
- HOUSEHOLDS/ BUILDINGS
 - PROPOSED DISTRIBUTION LINE
 - EXISTING 11kV LINE
 - EXISTING 33kV LINE
 - EXISTING DISTRIBUTION LINE
 - MAXIMISATION TRANSFORMER
 - EXTENSION TRANSFORMER
 - OTHER EXISTING TRANSFORMER
 - WOODEN ELECTRIC POLES
 - CONCRETE ELECTRIC POLES
 - LV-EARTH
 - PME -PROTECTIVE MULTIPLE EARTHING
 - STAY

SCALE 1:5000 50 0 50 100 150 200 250m (A3)

PROJECT:	DRAWING TITLE			DRAW. NO.	PREPARED BY	A.AKBAR
	COUNTY: NYANDARUA SCHEME: MAXIMIZATION PROJECT SITE: 17121-Naivasha Sub Station(132/33kV)			NYA-MA-3	CHECKED BY	S.MAETA
					APPROVED BY	Y.TANAKA
					DATE	10th SEP 2018



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NOTES:

1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
2. CONCRETE / WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.
5. POLES NOT SHOWN WHERE PME OR LV EARTH INTERSECT FOR CLARITY.

LEGEND

- HOUSEHOLDS/ BUILDINGS
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- OTHER EXISTING TRANSFORMER
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING
- STAY

SCALE 1:5000 (A3)

PROJECT:

THE PREPARATORY SURVEY
ON THE PROJECT FOR IMPROVEMENT
OF POWER DISTRIBUTION SYSTEM
IN THE REPUBLIC OF KENYA

DRAWING TITLE

COUNTY: NYANDARUA
SCHEME: MAXIMIZATION
PROJECT SITE: 34399-Gathara Market

DRAW. NO.

NYA-MA-7

PREPARED BY

A.AKBAR

CHECKED BY

S.MAETA

APPROVED BY

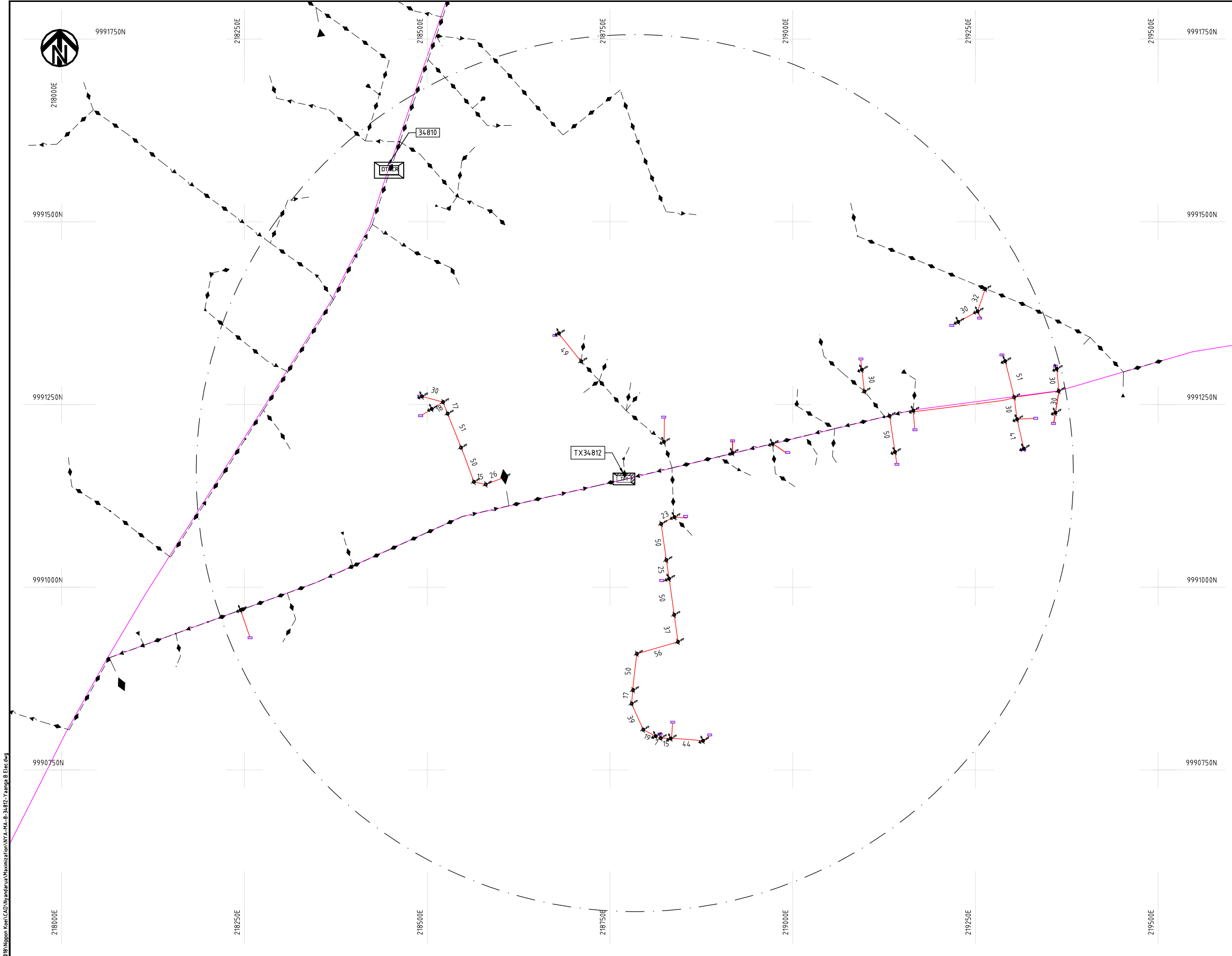
Y.TANAKA

DATE

10th SEP 2018



NIPPON KOEI CO., LTD



NOTES:

1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.
5. POLES NOT SHOWN WHERE PME OR LV EARTH INTERSECT FOR CLARITY.

LEGEND

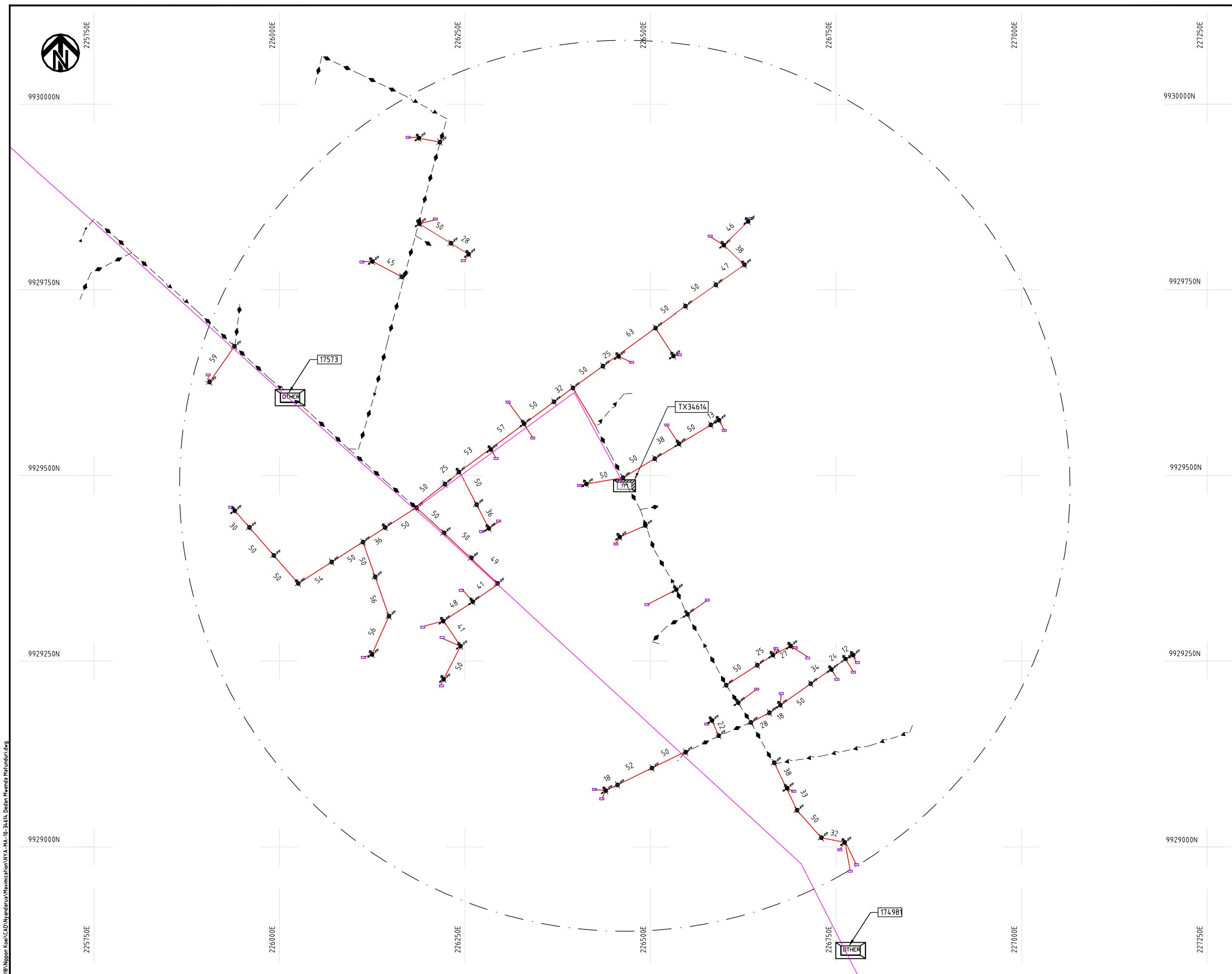
- HOUSEHOLDS/ BUILDINGS
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- OTHER EXISTING TRANSFORMER
- PP WOODEN ELECTRIC POLES
- CP CONCRETE ELECTRIC POLES
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING
- STAY

SCALE 1: 5000 (A3)

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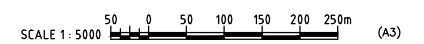
PROJECT: THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA	DRAWING TITLE		DRAW. NO.	PREPARED BY	A.AKBAR
	COUNTY:	NYANDARUA	NYA-MA-8	CHECKED BY	S.MAETA
	SCHEME:	MAXIMIZATION		APPROVED BY	Y.TANAKA
	PROJECT SITE:	34812-Yaanga B Elec		DATE	10th SEP 2018





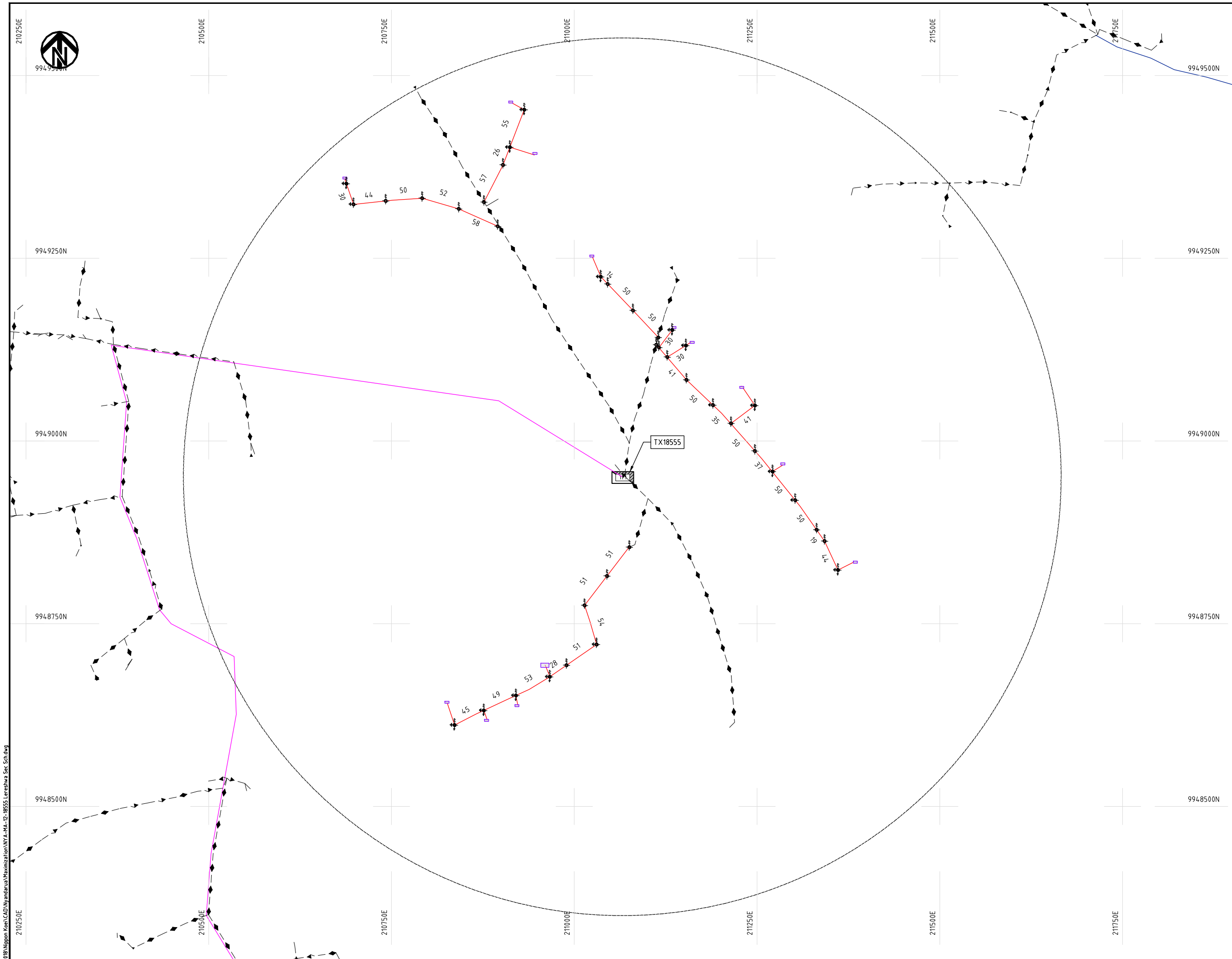
- NOTES:

LEGEND



PROJECT: THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA	DRAWING TITLE		DRAW. NO.	PREPARED BY	A.AKBAR
	COUNTY:	NYANDARUA	NYA-MA-10	CHECKED BY	S.MAETA
	SCHEME:	MAXIMIZATION		APPROVED BY	Y.TANAKA
	PROJECT SITE:	34614-Dedan Mwenda Matunduri		DATE	10th SEP 2018

Cad File No. D:\Frank-Proj\2018\Nippon Koei\CAD\Nyandarua\Maximization\NYA-MA-12-18555 Lereshwa Sec Sch.dwg



NOTES:

1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.
5. POLES NOT SHOWN WHERE PME OR LV EARTH INTERSECT FOR CLARITY.

LEGEND

- HOUSEHOLDS/ BUILDINGS
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- OTHER EXISTING TRANSFORMER
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING
- STAY

SCALE 1:5000 (A3)

PROJECT:
THE PREPARATORY SURVEY
ON THE PROJECT FOR IMPROVEMENT
OF POWER DISTRIBUTION SYSTEM
IN THE REPUBLIC OF KENYA

DRAWING TITLE
COUNTY: NYANDARUA
SCHEME: MAXIMIZATION
PROJECT SITE: 18555-Lereshwa Sec School

DRAW. NO.	PREPARED BY	A.AKBAR
NYA-MA-12	CHECKED BY	S.MAETA
	APPROVED BY	Y.TANAKA
	DATE	10th SEP 2018

NIPPON KOEI CO., LTD



9914250N

9914000N

9913750N

9913500N

9913250N

236750E

237000E

237250E

237500E

237750E

238000E

9914250N

9914000N

9913750N

9913500N

9913250N

236750E

237000E

237250E

237500E

237750E

238000E

NOTES:

1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.
5. POLES NOT SHOWN WHERE PME OR LV EARTH INTERSECT FOR CLARITY.

LEGEND

- HOUSEHOLDS/ BUILDINGS
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- OTHER EXISTING TRANSFORMER
- PP WOODEN ELECTRIC POLES
- CP CONCRETE ELECTRIC POLES
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING
- STAY

SCALE 1:5000 (A3)

PROJECT:

THE PREPARATORY SURVEY
ON THE PROJECT FOR IMPROVEMENT
OF POWER DISTRIBUTION SYSTEM
IN THE REPUBLIC OF KENYA

DRAWING TITLE

COUNTY: NYANDARUA
SCHEME: MAXIMIZATION
PROJECT SITE: 18035-Naivasha Sub Station (132_33kV)

DRAW. NO.

NYA-MA-13

PREPARED BY

A.AKBAR

CHECKED BY

S.MAETA

APPROVED BY

Y.TANAKA

DATE

10th SEP 2018



NIPPON KOEI CO., LTD



9981000N

208000E

208250E

208500E

208750E

209000E

209250E

9981000N

9980750N

9980750N

9980500N

9980500N

9980250N

9980250N

9980000N

9980000N

208000E

208250E

208500E

208750E

209000E

209250E

NOTES:

1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
2. CONCRETE / WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.
5. POLES NOT SHOWN WHERE PME OR LV EARTH INTERSECT FOR CLARITY.

LEGEND

- HOUSEHOLDS/ BUILDINGS
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- OTHER EXISTING TRANSFORMER
- PP WOODEN ELECTRIC POLES
- CP CONCRETE ELECTRIC POLES
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING
- STAY

SCALE 1:5000 (A3)

PROJECT:

THE PREPARATORY SURVEY
ON THE PROJECT FOR IMPROVEMENT
OF POWER DISTRIBUTION SYSTEM
IN THE REPUBLIC OF KENYA

DRAWING TITLE

COUNTY: NYANDARUA
SCHEME: MAXIMIZATION
PROJECT SITE: 17798-Kirima Village

DRAW. NO.

NYA-MA-14

PREPARED BY

A.AKBAR

CHECKED BY

S.MAETA

APPROVED BY

Y.TANAKA

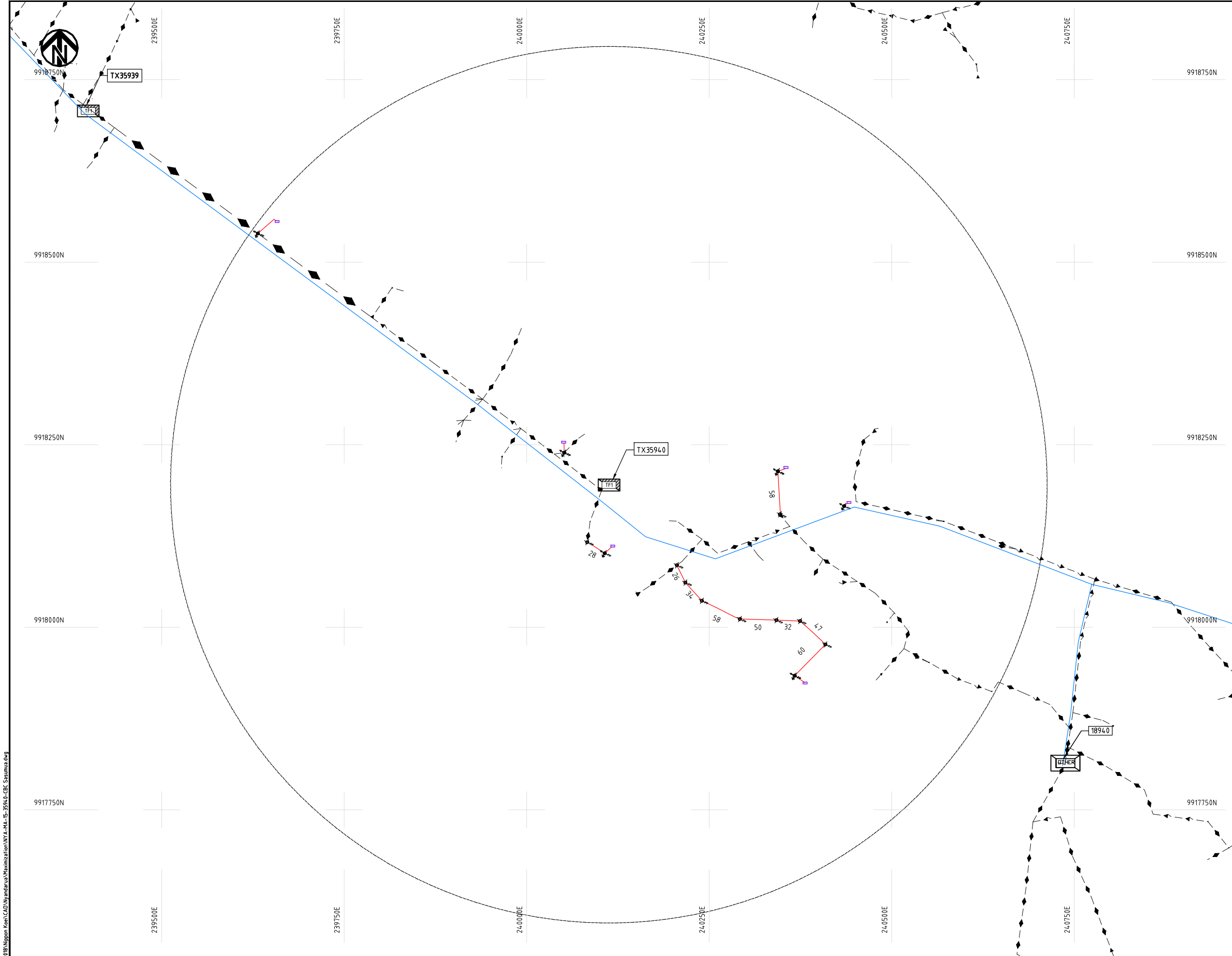
DATE

10th SEP 2018



NIPPON KOEI CO., LTD

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NOTES:

1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.
5. POLES NOT SHOWN WHERE PME OR LV EARTH INTERSECT FOR CLARITY.

LEGEND

- HOUSEHOLDS/ BUILDINGS
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- OTHER EXISTING TRANSFORMER
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING
- STAY

SCALE 1:5000 (A3)

PROJECT:

THE PREPARATORY SURVEY
ON THE PROJECT FOR IMPROVEMENT
OF POWER DISTRIBUTION SYSTEM
IN THE REPUBLIC OF KENYA

DRAWING TITLE

COUNTY: NYANDARUA
SCHEME: MAXIMIZATION
PROJECT SITE: 35940 CBC Sasumua

DRAW. NO.

NYA-MA-15

PREPARED BY

A.AKBAR

CHECKED BY

S.MAETA

APPROVED BY

Y.TANAKA

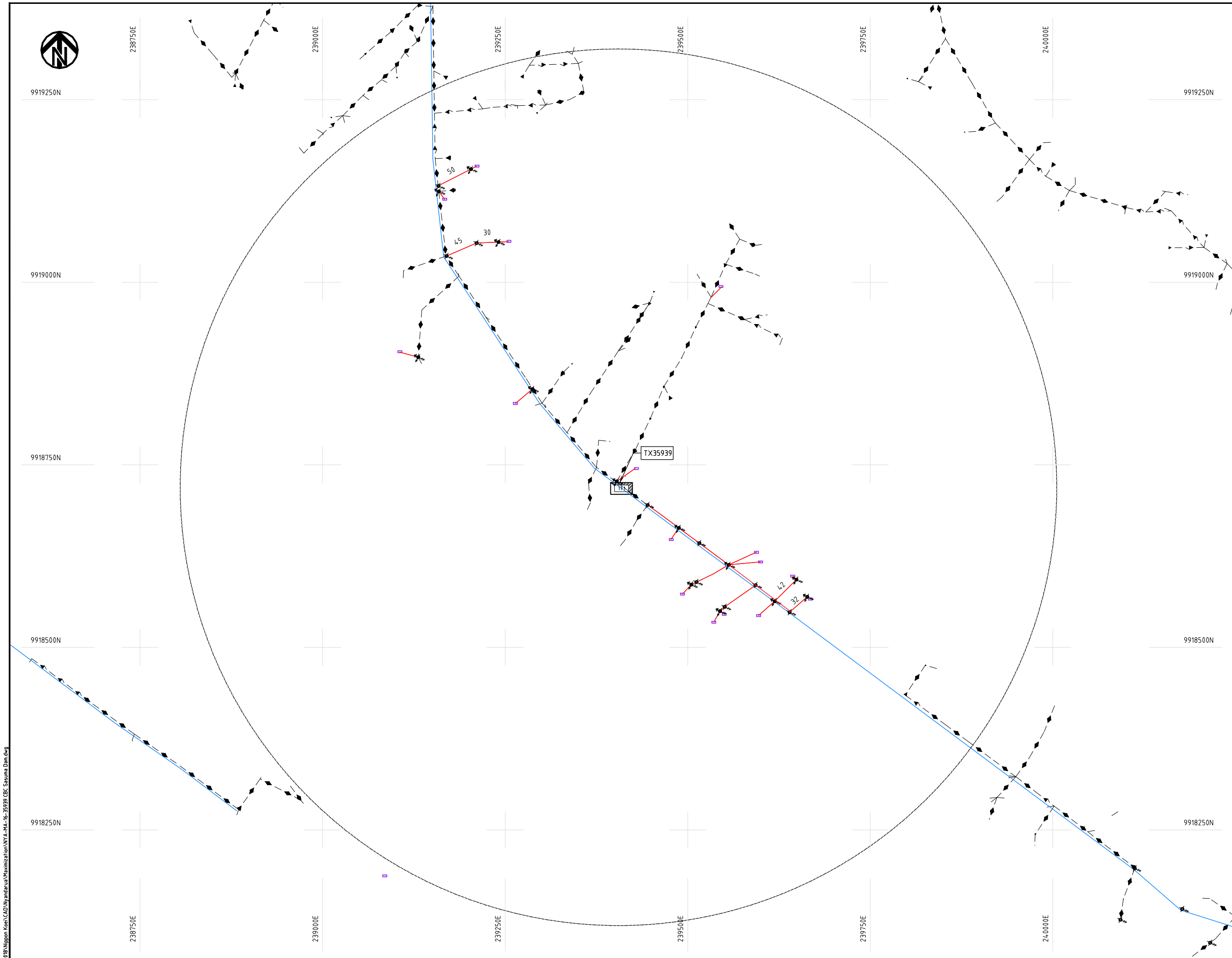
DATE

10th SEP 2018



NIPPON KOEI CO., LTD

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NOTES:

1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.
5. POLES NOT SHOWN WHERE PME OR LV EARTH INTERSECT FOR CLARITY.

LEGEND

- HOUSEHOLDS/ BUILDINGS
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- OTHER EXISTING TRANSFORMER
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING
- STAY

SCALE 1:5000 50 0 50 100 150 200 250m (A3)

PROJECT:

THE PREPARATORY SURVEY
ON THE PROJECT FOR IMPROVEMENT
OF POWER DISTRIBUTION SYSTEM
IN THE REPUBLIC OF KENYA

DRAWING TITLE

COUNTY: NYANDARUA
SCHEME: MAXIMIZATION
PROJECT SITE: 35939-CBC Sasumua Dam

DRAW. NO.

NYA-MA-16

PREPARED BY

A.AKBAR

CHECKED BY

S.MAETA

APPROVED BY

Y.TANAKA

DATE

10th SEP 2018



NIPPON KOEI CO., LTD



9933250N

9933000N

9932750N

9932500N

9932250N

224750E

225000E

225250E

225500E

225750E

226000E

9933250N

9933000N

9932750N

9932500N

9932250N

224750E

225000E

225250E

225500E

225750E

226000E

NOTES:

1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
2. CONCRETE / WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.
5. POLES NOT SHOWN WHERE PME OR LV EARTH INTERSECT FOR CLARITY.

LEGEND

- HOUSEHOLDS/ BUILDINGS
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- OTHER EXISTING TRANSFORMER
- PP WOODEN ELECTRIC POLES
- CP CONCRETE ELECTRIC POLES
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING
- STAY

SCALE 1:5000 (A3)

PROJECT:

THE PREPARATORY SURVEY
ON THE PROJECT FOR IMPROVEMENT
OF POWER DISTRIBUTION SYSTEM
IN THE REPUBLIC OF KENYA

DRAWING TITLE

COUNTY: NYANDARUA
SCHEME: MAXIMIZATION
PROJECT SITE: 35088-Naivasha Sub Station (132_33kV)

DRAW. NO.

NYA-MA-17

PREPARED BY

A.AKBAR

CHECKED BY

S.MAETA

APPROVED BY

Y.TANAKA

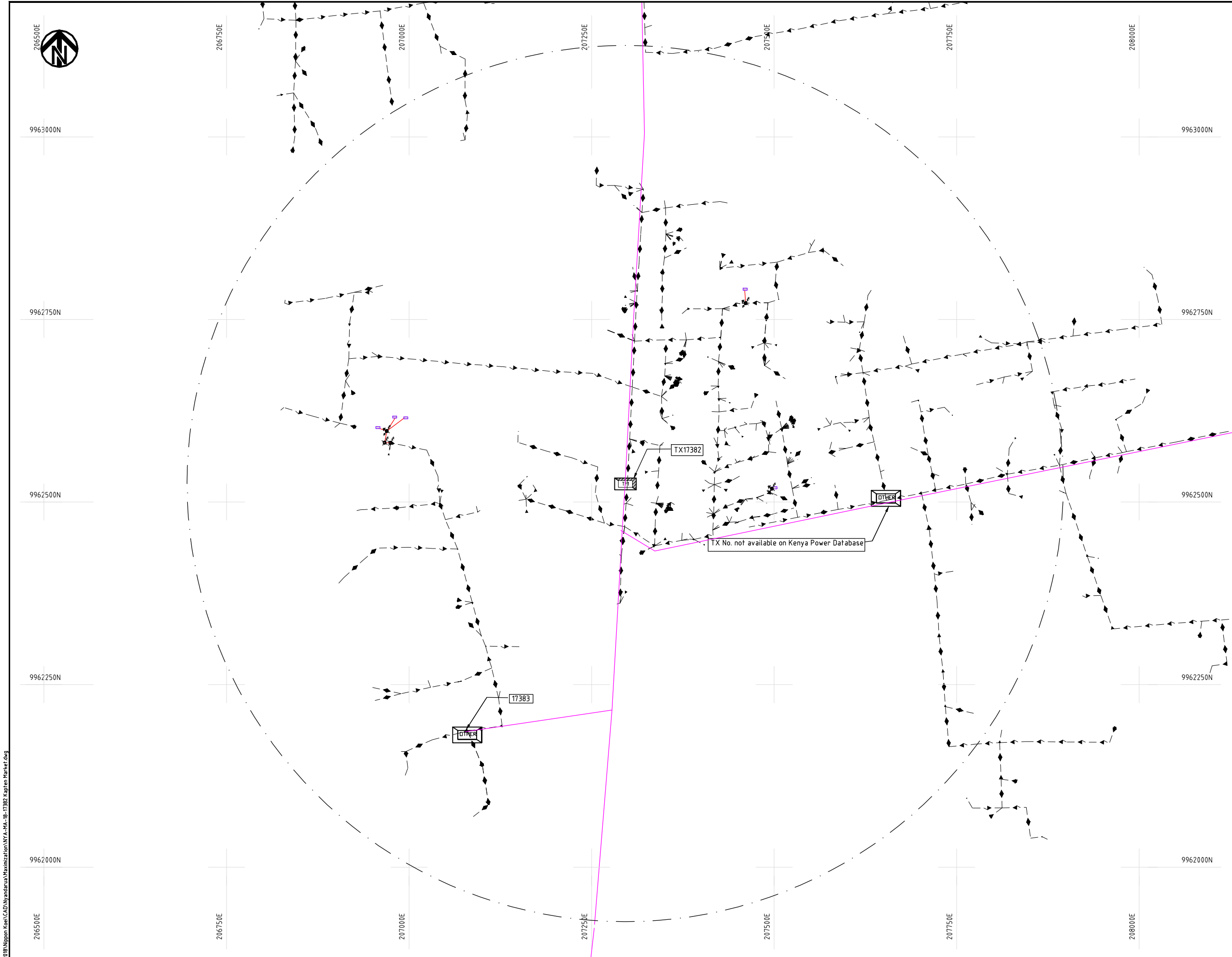
DATE

10th SEP 2018



NIPPON KOEI CO., LTD

Cad File No. D:\Frank-Proj\2018\Nippon Koei\CAD\Nyandarua\Maximization\NYA-MA-18-17382-Kapten Market.dwg



NOTES:

1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
2. CONCRETE / WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.
5. POLES NOT SHOWN WHERE PME OR LV EARTH INTERSECT FOR CLARITY.

LEGEND

- HOUSEHOLDS/ BUILDINGS
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- OTHER EXISTING TRANSFORMER
- PP WOODEN ELECTRIC POLES
- CP CONCRETE ELECTRIC POLES
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING
- STAY

SCALE 1:5000 (A3)

PROJECT:

THE PREPARATORY SURVEY
ON THE PROJECT FOR IMPROVEMENT
OF POWER DISTRIBUTION SYSTEM
IN THE REPUBLIC OF KENYA

DRAWING TITLE

COUNTY: NYANDARUA
SCHEME: MAXIMIZATION
PROJECT SITE: 17382-Kapten Market

DRAW. NO.

NYA-MA-18

PREPARED BY

A.AKBAR

CHECKED BY

S.MAETA

APPROVED BY

Y.TANAKA

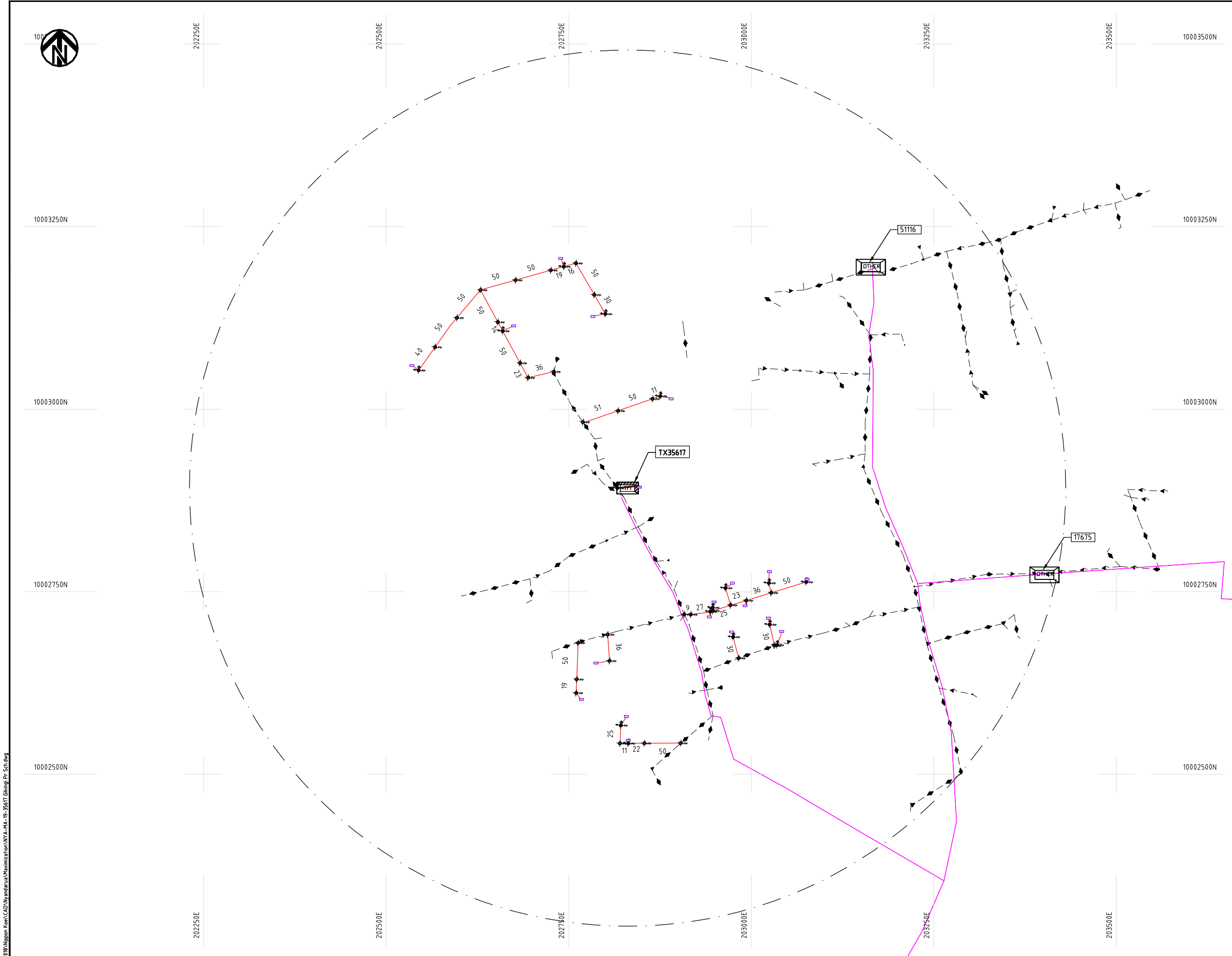
DATE

10th SEP 2018



NIPPON KOEI CO., LTD

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NOTES:

1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
2. CONCRETE / WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.
5. POLES NOT SHOWN WHERE PME OR LV EARTH INTERSECT FOR CLARITY.

LEGEND

- HOUSEHOLDS/ BUILDINGS
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- OTHER EXISTING TRANSFORMER
- PP WOODEN ELECTRIC POLES
- CP CONCRETE ELECTRIC POLES
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING
- STAY

SCALE 1:5000 (A3)

PROJECT:

THE PREPARATORY SURVEY
ON THE PROJECT FOR IMPROVEMENT
OF POWER DISTRIBUTION SYSTEM
IN THE REPUBLIC OF KENYA

DRAWING TITLE

COUNTY: NYANDARUA
SCHEME: MAXIMIZATION
PROJECT SITE: 35617 Gikingi Pri Sch

DRAW. NO.

NYA-MA-19

PREPARED BY

A.AKBAR

CHECKED BY

S.MAETA

APPROVED BY

Y.TANAKA

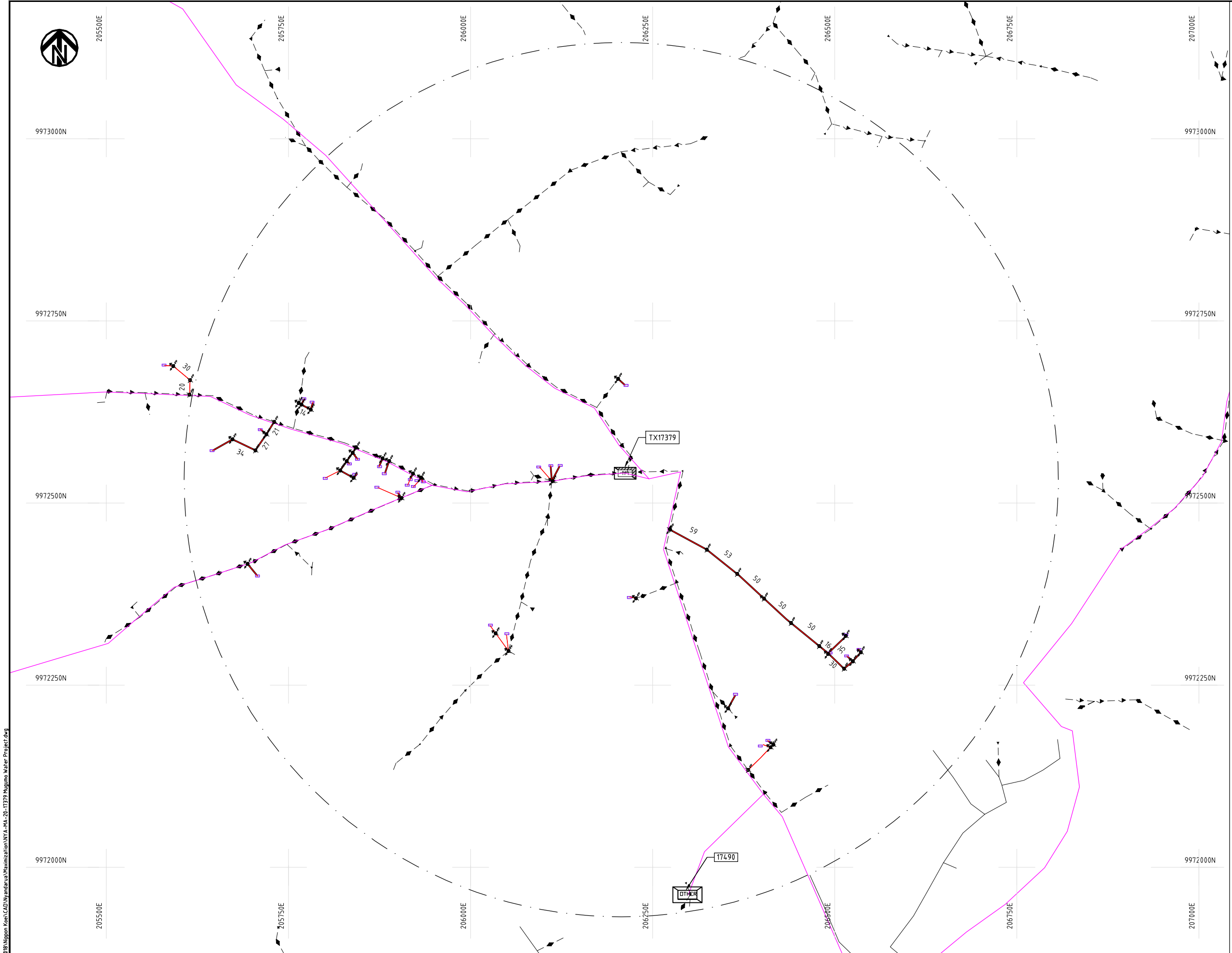
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10th SEP 2018



NIPPON KOEI CO., LTD

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NOTES:

1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.
5. POLES NOT SHOWN WHERE PME OR LV EARTH INTERSECT FOR CLARITY.

LEGEND

- HOUSEHOLDS/ BUILDINGS
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- OTHER EXISTING TRANSFORMER
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING
- STAY

SCALE 1: 5000 (A3)

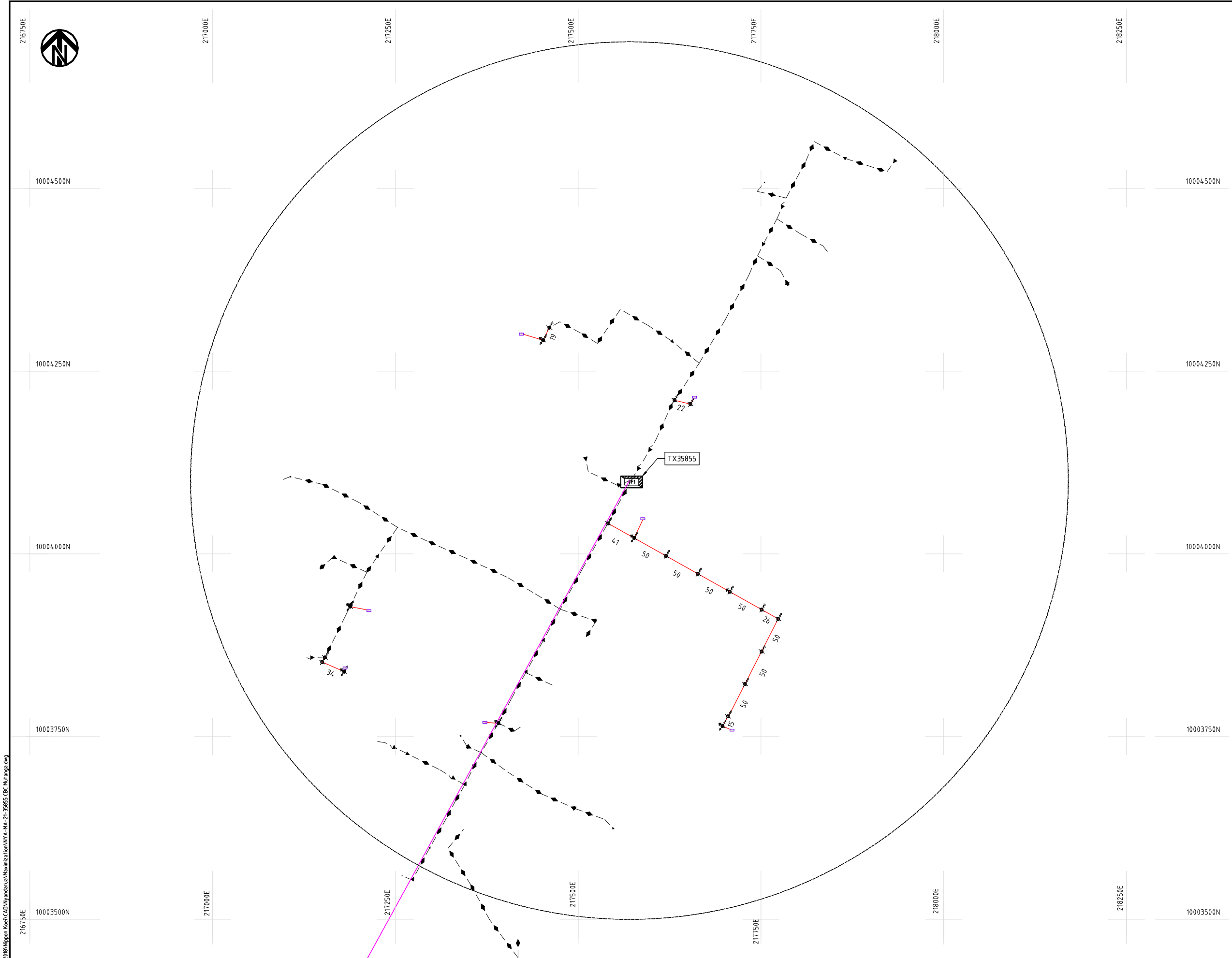
PROJECT:
THE PREPARATORY SURVEY
ON THE PROJECT FOR IMPROVEMENT
OF POWER DISTRIBUTION SYSTEM
IN THE REPUBLIC OF KENYA

DRAWING TITLE
COUNTY: NYANDARUA
SCHEME: MAXIMIZATION
PROJECT SITE: 17379-Mugumo Water Project

DRAW. NO.	PREPARED BY	A.AKBAR
NYA-MA-20	CHECKED BY	S.MAETA
	APPROVED BY	Y.TANAKA
	DATE	10th SEP 2018



Cad File No. D:\Frank-Proj\2018\Nippon Koei\CAD\Nyandarua\Maximization\NYA-MA-21-35855 CBC Mutanga.dwg



- NOTES:**
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 2. CONCRETE / WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.
 5. POLES NOT SHOWN WHERE PME OR LV EARTH INTERSECT FOR CLARITY.

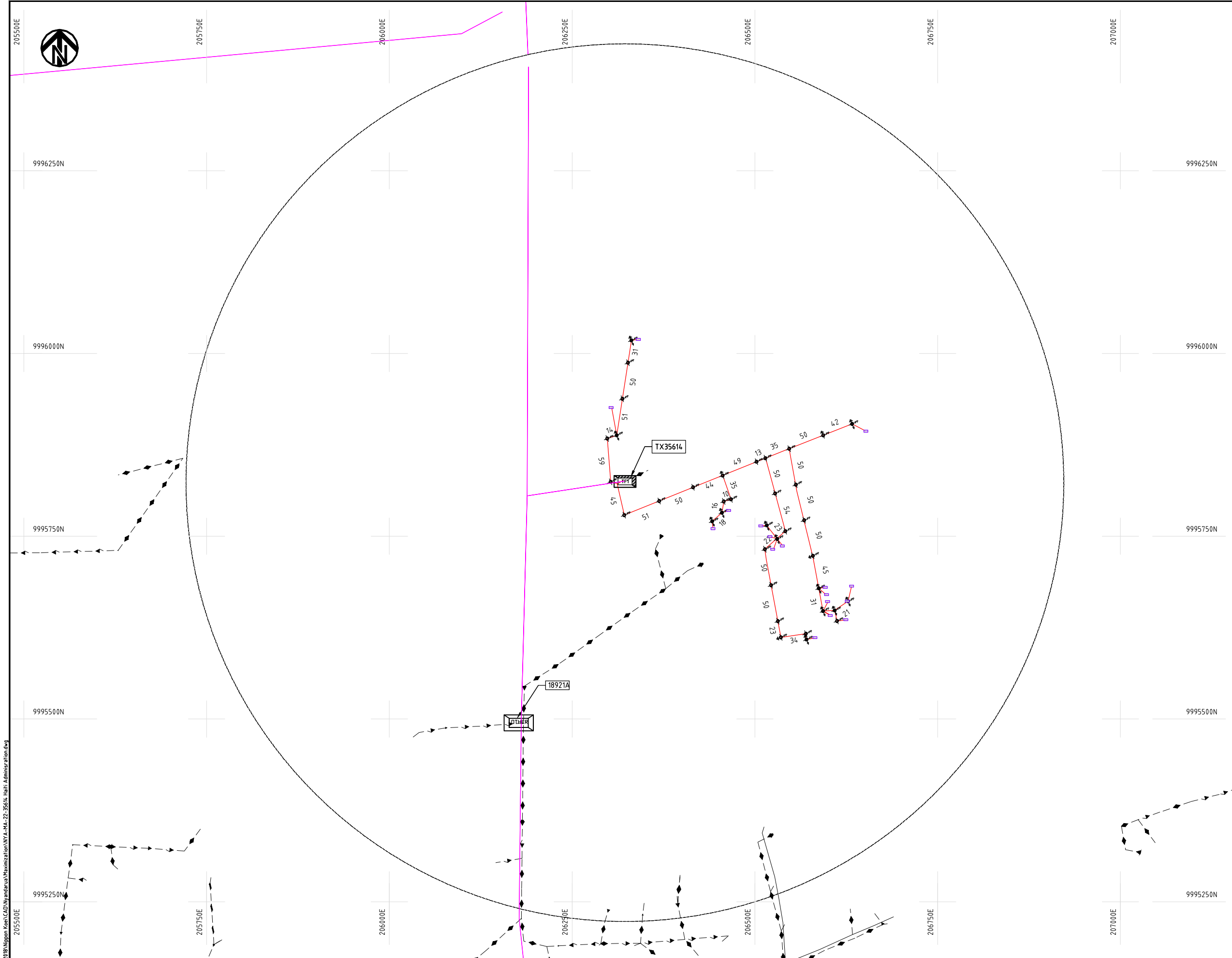
- LEGEND**
- HOUSEHOLDS/ BUILDINGS
 - PROPOSED DISTRIBUTION LINE
 - EXISTING 11kV LINE
 - EXISTING 33kV LINE
 - EXISTING DISTRIBUTION LINE
 - MAXIMISATION TRANSFORMER
 - EXTENSION TRANSFORMER
 - OTHER EXISTING TRANSFORMER
 - PP WOODEN ELECTRIC POLES
 - CP CONCRETE ELECTRIC POLES
 - LV-EARTH
 - PME -PROTECTIVE MULTIPLE EARTHING
 - STAY

SCALE 1:5000 (A3)

PROJECT: THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA	DRAWING TITLE		DRAW. NO.	PREPARED BY	A.AKBAR
	COUNTY:	NYANDARUA	NYA-MA-21	CHECKED BY	S.MAETA
	SCHEME:	MAXIMIZATION		APPROVED BY	Y.TANAKA
	PROJECT SITE:	35855-CBC Mutanga		DATE	10th SEP 2018



Cad File No. D:\Frank-Proj\2018\Nippon Koei\CAD\Nyandarua\Maximization\NYA-MA-22-35614 Haiti Administration.dwg



- NOTES:**
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.
 5. POLES NOT SHOWN WHERE PME OR LV EARTH INTERSECT FOR CLARITY.

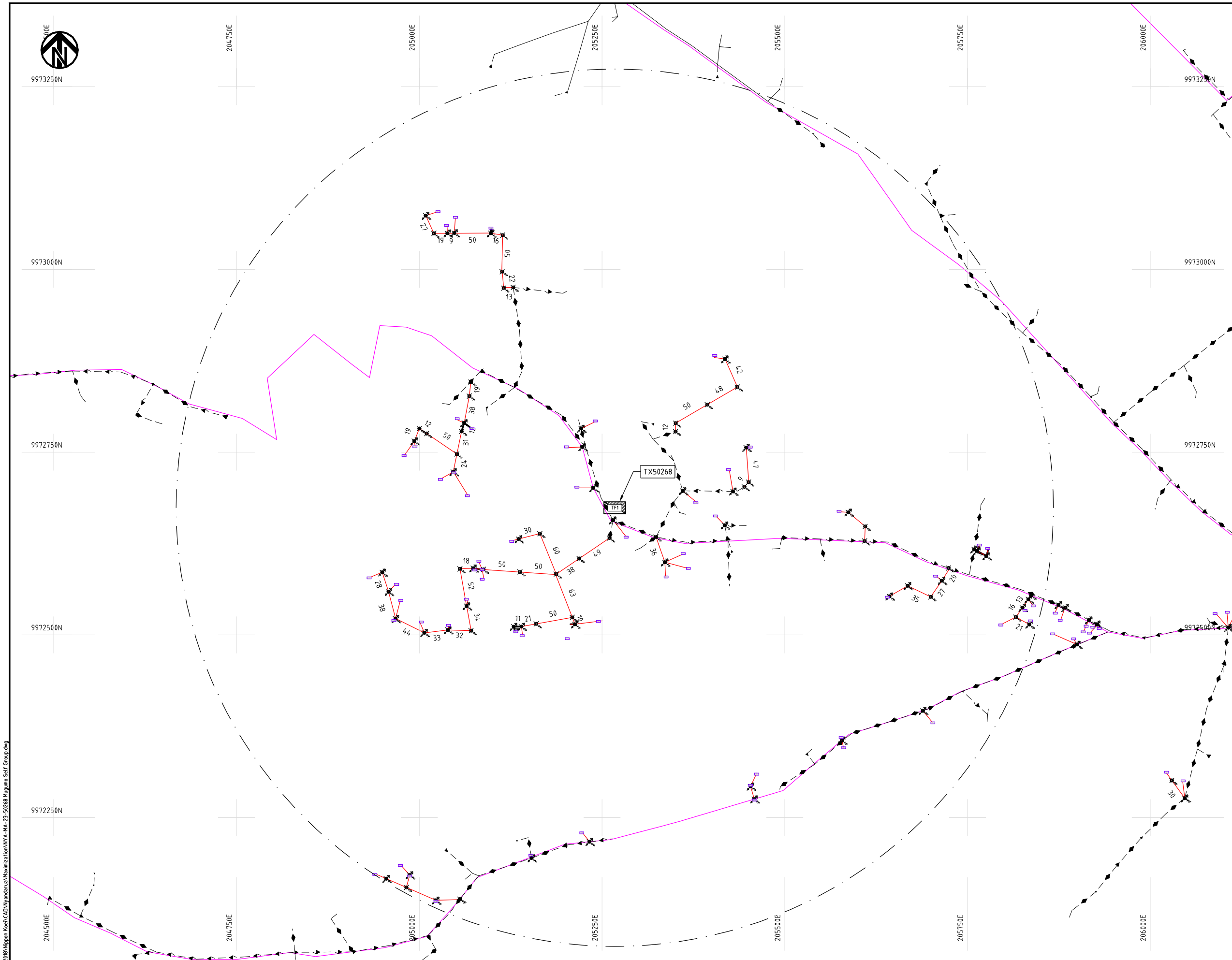
- LEGEND**
- HOUSEHOLDS/ BUILDINGS
 - PROPOSED DISTRIBUTION LINE
 - EXISTING 11kV LINE
 - EXISTING 33kV LINE
 - EXISTING DISTRIBUTION LINE
 - MAXIMISATION TRANSFORMER
 - EXTENSION TRANSFORMER
 - OTHER EXISTING TRANSFORMER
 - WOODEN ELECTRIC POLES
 - CONCRETE ELECTRIC POLES
 - LV-EARTH
 - PME -PROTECTIVE MULTIPLE EARTHING
 - STAY

SCALE 1:5000 50 0 50 100 150 200 250m (A3)

PROJECT:	DRAWING TITLE			DRAW. NO.	PREPARED BY	A.AKBAR
	COUNTY: NYANDARUA SCHEME: MAXIMIZATION PROJECT SITE: 35614-Haiti Administration			NYA-MA-22	CHECKED BY	S.MAETA
					APPROVED BY	Y.TANAKA
					DATE	10th SEP 2018



Cad File No. D:\Frank-Proj\2018\Nippon Koei\CAD\Wyandaru\Maximization\NYA-MA-23-50268 Mugumo Self Group.dwg



NOTES:

1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.
5. POLES NOT SHOWN WHERE PME OR LV EARTH INTERSECT FOR CLARITY.

LEGEND

- HOUSEHOLDS/ BUILDINGS
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- OTHER EXISTING TRANSFORMER
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING
- STAY

SCALE 1:5000 (A3)

PROJECT:

THE PREPARATORY SURVEY
ON THE PROJECT FOR IMPROVEMENT
OF POWER DISTRIBUTION SYSTEM
IN THE REPUBLIC OF KENYA

DRAWING TITLE

COUNTY: NYANDARUA
SCHEME: MAXIMIZATION
PROJECT SITE: 50268-Mugumo Self Group

DRAW. NO.

NYA-MA-23

PREPARED BY

A.AKBAR

CHECKED BY

S.MAETA

APPROVED BY

Y.TANAKA

DATE

10th SEP 2018



NIPPON KOEI CO., LTD

Cad File No. D:\Frank-Proj\2018\Nippon Koei\CAD\Wyandarua\Maximization\NYA-MA-24-35609 Simba Primary School.dwg



206250E

206500E

206750E

207000E

207250E

207500E

207750E

9957500N

9957250N

9957000N

9956750N

9956500N

206250E

206500E

206750E

207000E

207250E

207500E

207750E

9957500N

9957250N

9957000N

9956750N

9956500N

NOTES:

1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
2. CONCRETE / WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.
5. POLES NOT SHOWN WHERE PME OR LV EARTH INTERSECT FOR CLARITY.

LEGEND

- HOUSEHOLDS/ BUILDINGS
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- OTHER EXISTING TRANSFORMER
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING
- STAY

SCALE 1:5000 (A3)

PROJECT:

THE PREPARATORY SURVEY
ON THE PROJECT FOR IMPROVEMENT
OF POWER DISTRIBUTION SYSTEM
IN THE REPUBLIC OF KENYA

DRAWING TITLE

COUNTY: NYANDARUA
SCHEME: MAXIMIZATION
PROJECT SITE: 35609-Simba Primary School

DRAW. NO.

NYA-MA-24

PREPARED BY

A.AKBAR

CHECKED BY

S.MAETA

APPROVED BY

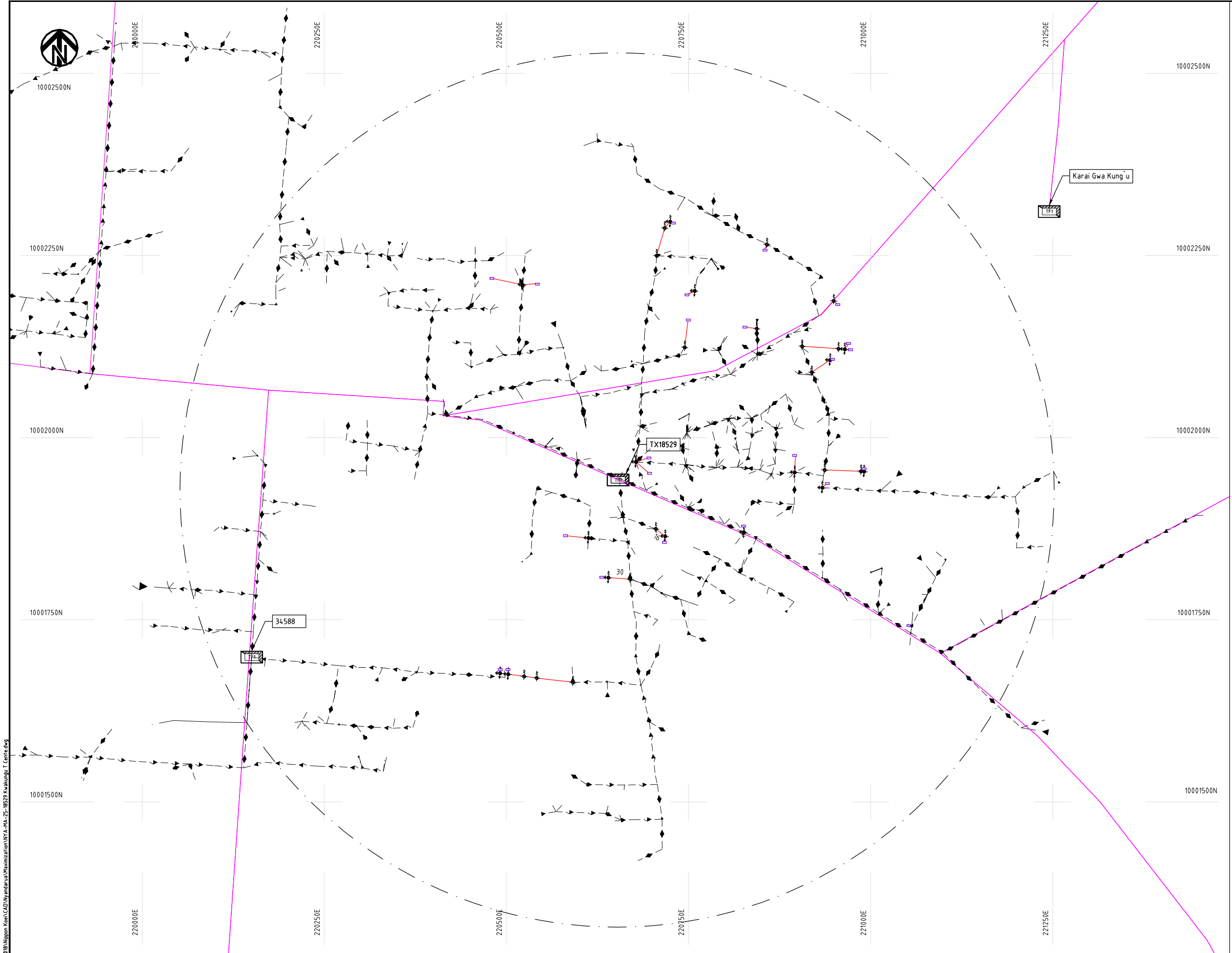
Y.TANAKA

DATE

10th SEP 2018



NIPPON KOEI CO., LTD



NOTES:

1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
2. CONCRETE / WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.
5. POLES NOT SHOWN WHERE PME OR LV EARTH INTERSECT FOR CLARITY.

LEGEND

- HOUSEHOLDS/ BUILDINGS
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- OTHER EXISTING TRANSFORMER
- PP WOODEN ELECTRIC POLES
- CP CONCRETE ELECTRIC POLES
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING
- STAY

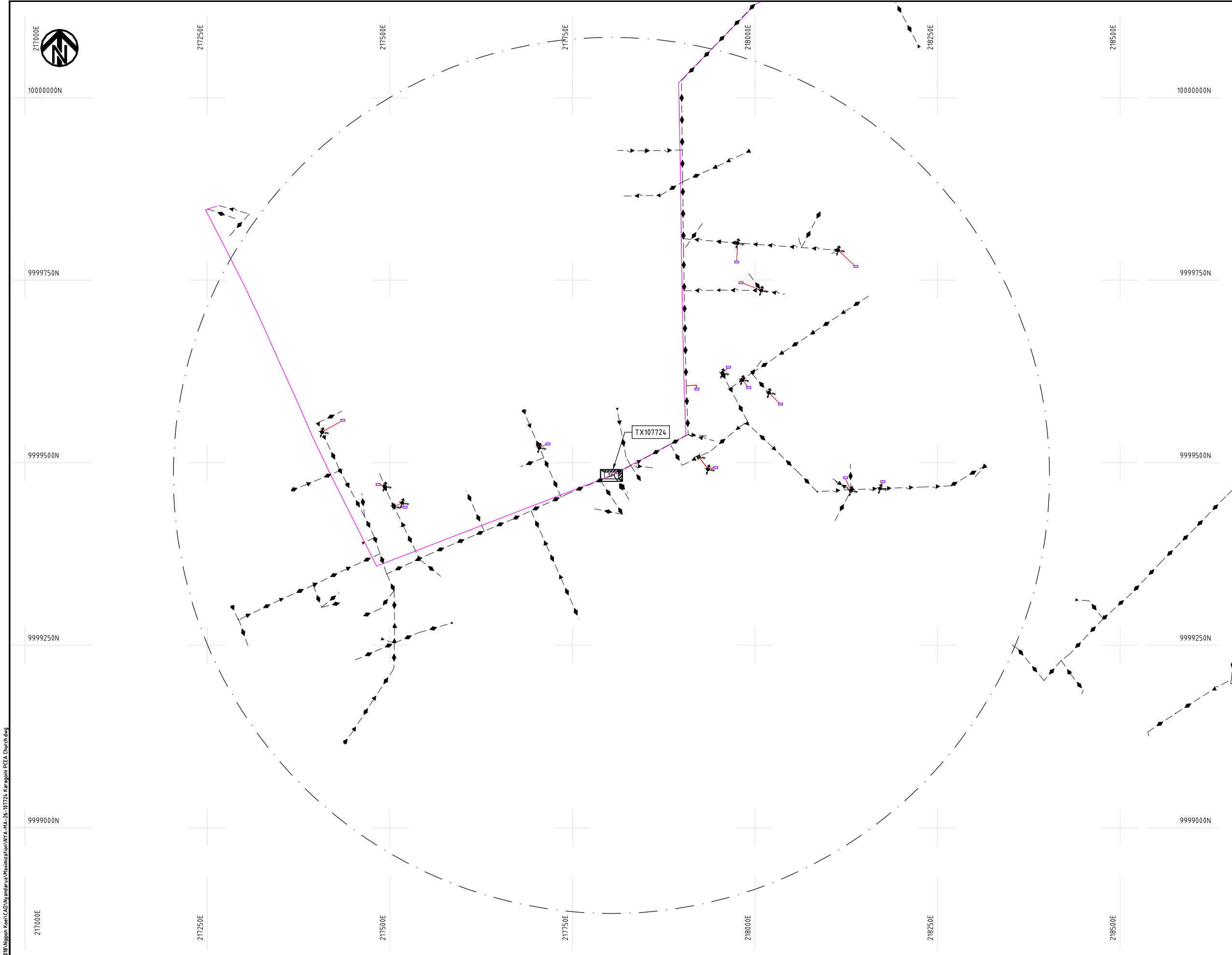
SCALE 1:5000 (A3)

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PROJECT: THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA	DRAWING TITLE		DRAW. NO.	PREPARED BY	A.AKBAR
	COUNTY:	NYANDARUA	NYA-MA-25	CHECKED BY	S.MAETA
	SCHEME:	MAXIMIZATION		APPROVED BY	Y.TANAKA
	PROJECT SITE:	18529-Kwakungu T Centre		DATE	10th SEP 2018



Cad File No. D:\Frank-Proj\2018\Nippon Koei\CAD\Nyandarua\Maximization\NYA-MA-26-107724 Karagoini PCEA Church.dwg



NOTES:

1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
2. CONCRETE / WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.
5. POLES NOT SHOWN WHERE PME OR LV EARTH INTERSECT FOR CLARITY.

LEGEND

- HOUSEHOLDS/ BUILDINGS
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- OTHER EXISTING TRANSFORMER
- PP WOODEN ELECTRIC POLES
- CP CONCRETE ELECTRIC POLES
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING
- STAY

SCALE 1: 5000 (A3)

PROJECT:
THE PREPARATORY SURVEY
ON THE PROJECT FOR IMPROVEMENT
OF POWER DISTRIBUTION SYSTEM
IN THE REPUBLIC OF KENYA

DRAWING TITLE
COUNTY: NYANDARUA
SCHEME: MAXIMIZATION
PROJECT SITE: 107724 Karagoini PCEA Church

DRAW. NO.	PREPARED BY	A.AKBAR
NYA-MA-26	CHECKED BY	S.MAETA
	APPROVED BY	Y.TANAKA
	DATE	10th SEP 2018





9992750N

220250E

9992500N

9992250N

9992000N

9991750N

220250E

220500E

220750E

221000E

221250E

221500E

221750E

9992750N

9992500N

9992250N

9992000N

9991750N

221750E

PROJECT:

THE PREPARATORY SURVEY
ON THE PROJECT FOR IMPROVEMENT
OF POWER DISTRIBUTION SYSTEM
IN THE REPUBLIC OF KENYA

DRAWING TITLE

COUNTY: NYANDARUA
SCHEME: MAXIMIZATION
PROJECT SITE: 34341-Kihara School

DRAW. NO.

NYA-MA-27

PREPARED BY

A.AKBAR

CHECKED BY

S.MAETA

APPROVED BY

Y.TANAKA

DATE

10th SEP 2018

NOTES:

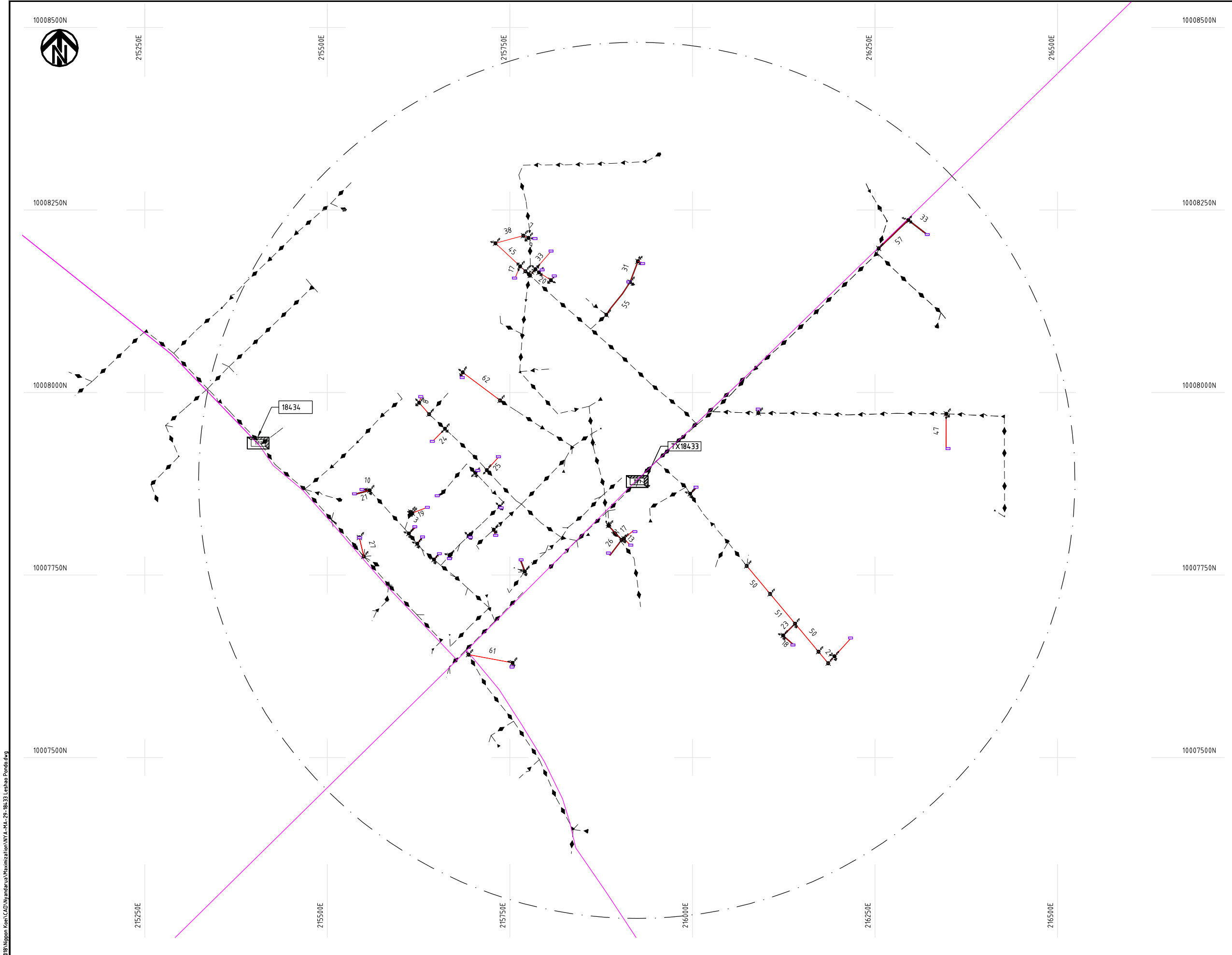
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
2. CONCRETE / WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.
5. POLES NOT SHOWN WHERE PME OR LV EARTH INTERSECT FOR CLARITY.

LEGEND

- HOUSEHOLDS/ BUILDINGS
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- OTHER EXISTING TRANSFORMER
- PP WOODEN ELECTRIC POLES
- CP CONCRETE ELECTRIC POLES
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING
- STAY

SCALE 1:5000 (A3)

NIPPON KOEI CO., LTD



- NOTES:**
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.
 5. POLES NOT SHOWN WHERE PME OR LV EARTH INTERSECT FOR CLARITY.

- LEGEND**
- HOUSEHOLDS/ BUILDINGS
 - PROPOSED DISTRIBUTION LINE
 - EXISTING 11kV LINE
 - EXISTING 33kV LINE
 - EXISTING DISTRIBUTION LINE
 - MAXIMISATION TRANSFORMER
 - EXTENSION TRANSFORMER
 - OTHER EXISTING TRANSFORMER
 - WOODEN ELECTRIC POLES
 - CONCRETE ELECTRIC POLES
 - LV-EARTH
 - PME -PROTECTIVE MULTIPLE EARTHING
 - STAY

SCALE 1: 5000 50 0 50 100 150 200 250m (A3)

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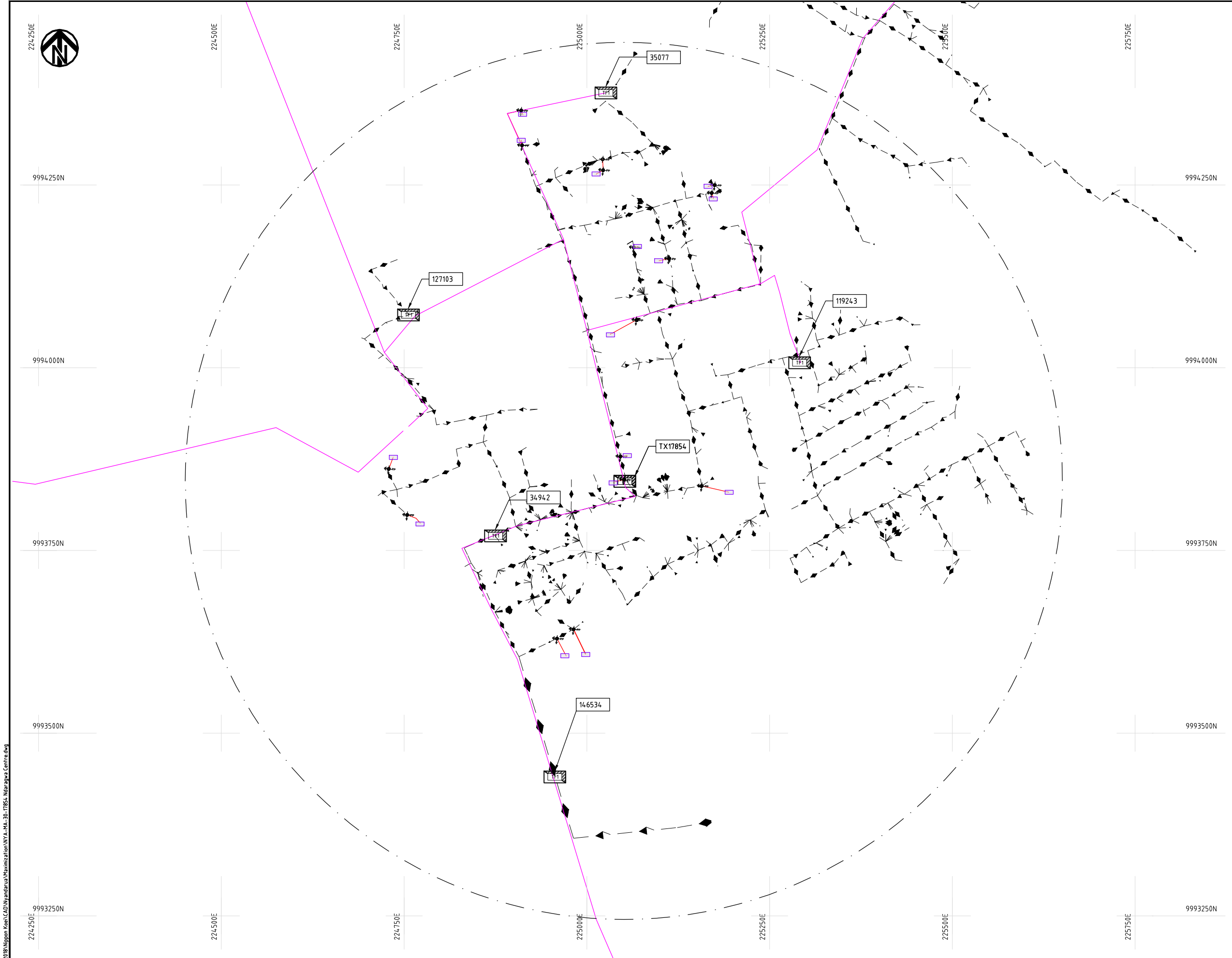
PROJECT:
THE PREPARATORY SURVEY
ON THE PROJECT FOR IMPROVEMENT
OF POWER DISTRIBUTION SYSTEM
IN THE REPUBLIC OF KENYA

DRAWING TITLE
COUNTY: NYANDARUA
SCHEME: MAXIMIZATION
PROJECT SITE: 18433 LESHAO POND0

DRAW. NO.	PREPARED BY	A.AKBAR
NYA-MA-29	CHECKED BY	S.MAETA
	APPROVED BY	Y.TANAKA
	DATE	10th SEP 2018



Cad File No.: D:\Frank-Proj\2018\Nippon Koei\CAD\Nyandarua\Maximization\NYA-MA-30-17854_Ndaragwa Centre.dwg



NOTES:

1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.
5. POLES NOT SHOWN WHERE PME OR LV EARTH INTERSECT FOR CLARITY.

LEGEND

- HOUSEHOLDS/ BUILDINGS
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- OTHER EXISTING TRANSFORMER
- PP WOODEN ELECTRIC POLES
- CP CONCRETE ELECTRIC POLES
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING
- STAY

SCALE 1: 5000 (A3)

PROJECT: THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA	DRAWING TITLE		DRAW. NO.	PREPARED BY	A.AKBAR
	COUNTY:	NYANDARUA	NYA-MA-30	CHECKED BY	S.MAETA
	SCHEME:	MAXIMIZATION		APPROVED BY	Y.TANAKA
	PROJECT SITE:	17854-Ndaragwa Centre		DATE	10th SEP 2018





9979750N

208000E

208250E

208500E

208750E

209000E

209250E

9979750N

9979500N

9979500N

9979250N

9979250N

9979000N

9979000N

9978750N

9978750N

208000E

208250E

208500E

208750E

209000E

209250E

NOTES:

1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.
5. POLES NOT SHOWN WHERE PME OR LV EARTH INTERSECT FOR CLARITY.

LEGEND

- HOUSEHOLDS/ BUILDINGS
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- OTHER EXISTING TRANSFORMER
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING
- STAY

SCALE 1:5000 50 0 50 100 150 200 250m (A3)

PROJECT:

THE PREPARATORY SURVEY
ON THE PROJECT FOR IMPROVEMENT
OF POWER DISTRIBUTION SYSTEM
IN THE REPUBLIC OF KENYA

DRAWING TITLE

COUNTY: NYANDARUA
SCHEME: MAXIMIZATION
PROJECT SITE: 34224-Rurii

DRAW. NO.

NYA-MA-31

PREPARED BY

A.AKBAR

CHECKED BY

S.MAETA

APPROVED BY

Y.TANAKA

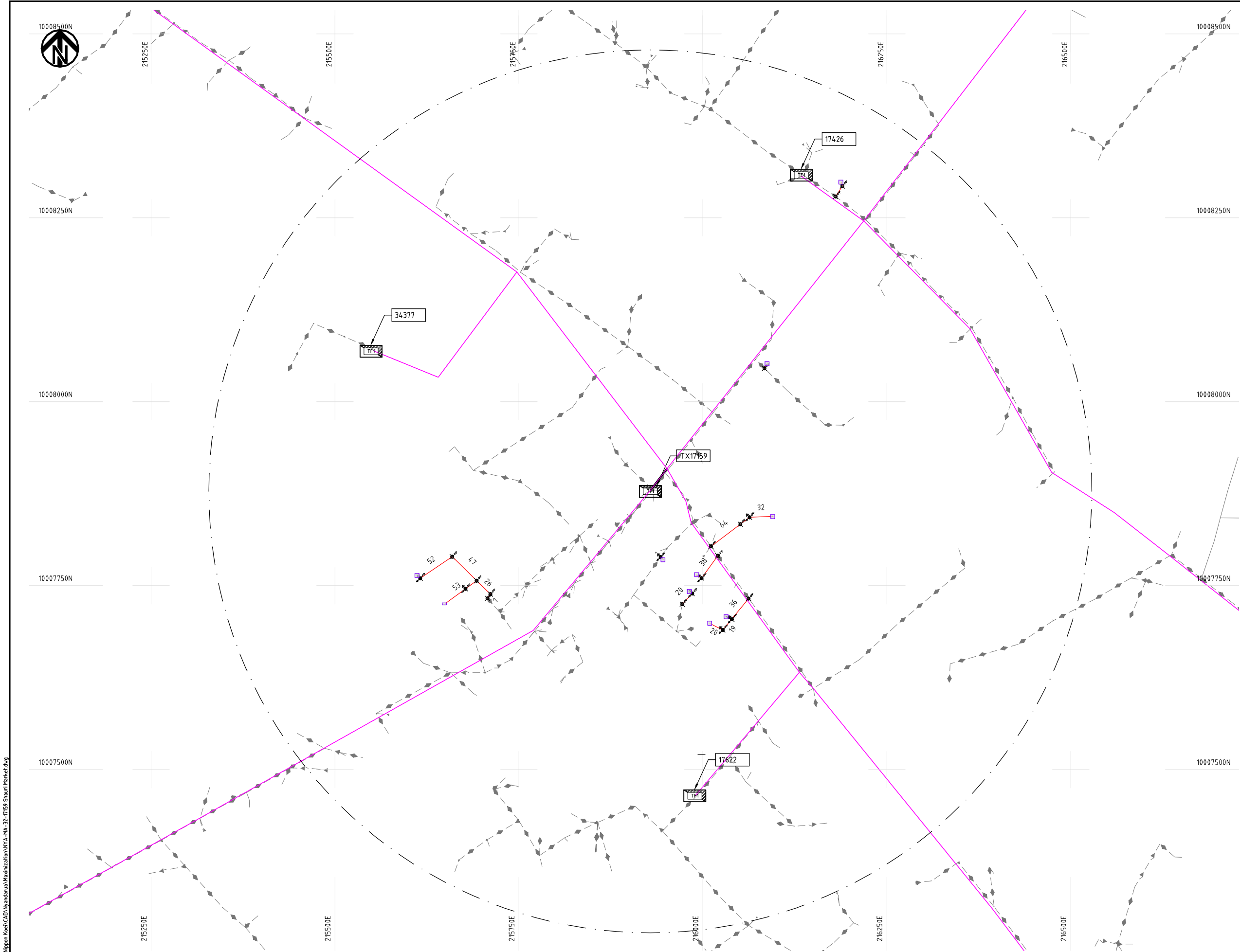
DATE

10th SEP 2018



NIPPON KOEI CO., LTD

Cad File No. D:\Frank-Proj\2018\Nippon Koei\CAD\Nyandarua\Maximization\NYA-MA-32-17159 Shauri Market.dwg



NOTES:

1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.
5. POLES NOT SHOWN WHERE PME OR LV EARTH INTERSECT FOR CLARITY.

LEGEND

- HOUSEHOLDS/ BUILDINGS
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- OTHER EXISTING TRANSFORMER
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING
- STAY

SCALE 1: 5000 (A3)

PROJECT:

THE PREPARATORY SURVEY
ON THE PROJECT FOR IMPROVEMENT
OF POWER DISTRIBUTION SYSTEM
IN THE REPUBLIC OF KENYA

DRAWING TITLE

COUNTY: NYANDARUA
SCHEME: MAXIMIZATION
PROJECT SITE: 17159 SHAURI MARKET

DRAW. NO.

NYA-MA-32

PREPARED BY

A.AKBAR

CHECKED BY

S.MAETA

APPROVED BY

Y.TANAKA

DATE

10th SEP 2018



NIPPON KOEI CO., LTD

Cad File No. D:\Frank-Proj\2018\Nippon Koei\CAD\Nyandarua Maximization\NYA-MA-33-17161 Hon Kimondo Wagura.dwg



NOTES:

1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.
5. POLES NOT SHOWN WHERE PME OR LV EARTH INTERSECT FOR CLARITY.

LEGEND

- HOUSEHOLDS/ BUILDINGS
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- OTHER EXISTING TRANSFORMER
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING
- STAY

SCALE 1:5000 (A3)

PROJECT:

THE PREPARATORY SURVEY
ON THE PROJECT FOR IMPROVEMENT
OF POWER DISTRIBUTION SYSTEM
IN THE REPUBLIC OF KENYA

DRAWING TITLE

COUNTY: NYANDARUA
SCHEME: MAXIMIZATION
PROJECT SITE: 17161 Hon Kimondo Wagura

DRAW. NO.

NYA-MA-33

PREPARED BY

A.AKBAR

CHECKED BY

S.MAETA

APPROVED BY

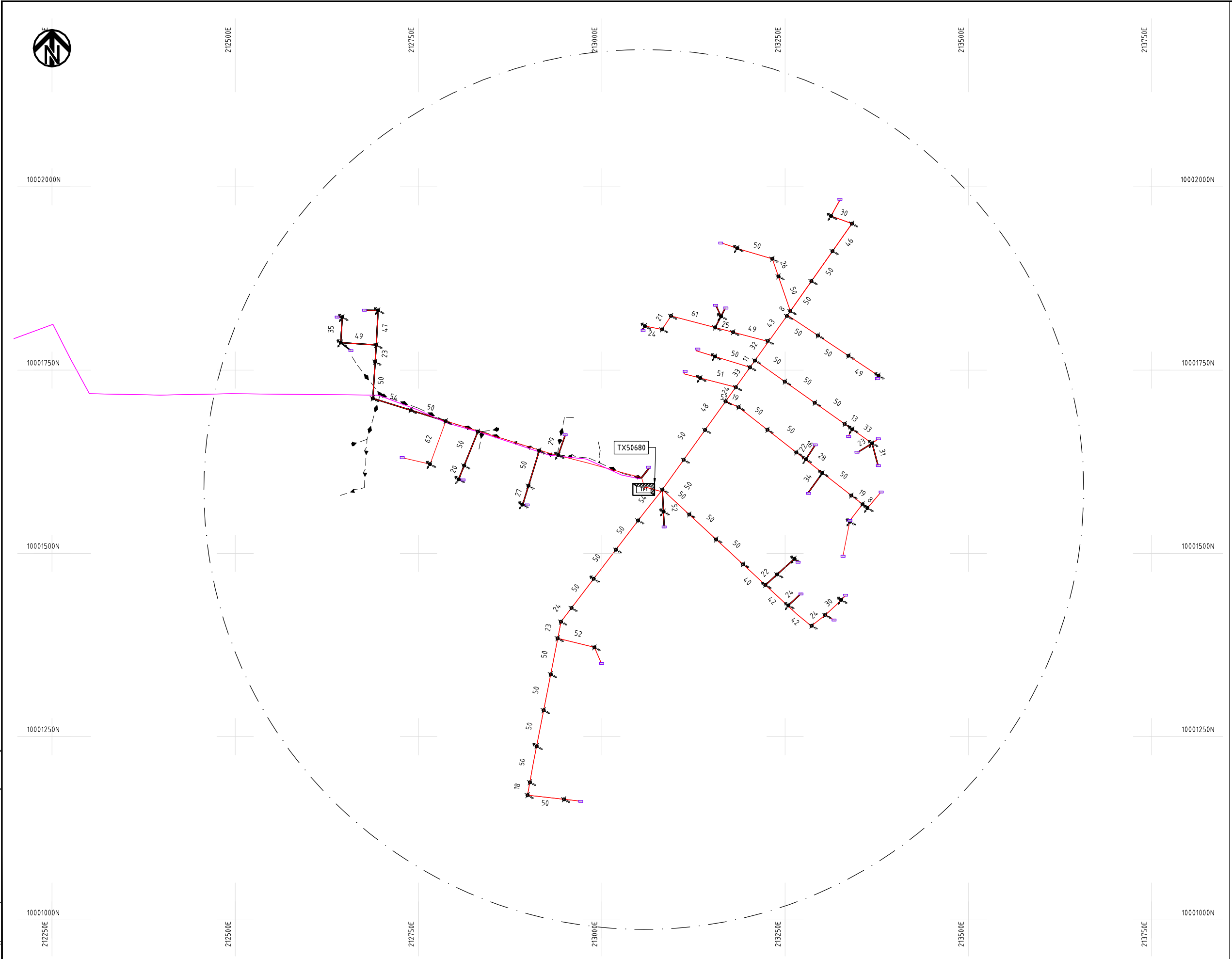
Y.TANAKA

DATE

10th SEP 2018



NIPPON KOEI CO., LTD



NOTES:

- 1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
- 2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
- 3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
- 4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.
- 5. POLES NOT SHOWN WHERE PME OR LV EARTH INTERSECT FOR CLARITY.

LEGEND

- HOUSEHOLDS/ BUILDINGS
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- OTHER EXISTING TRANSFORMER
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING
- STAY

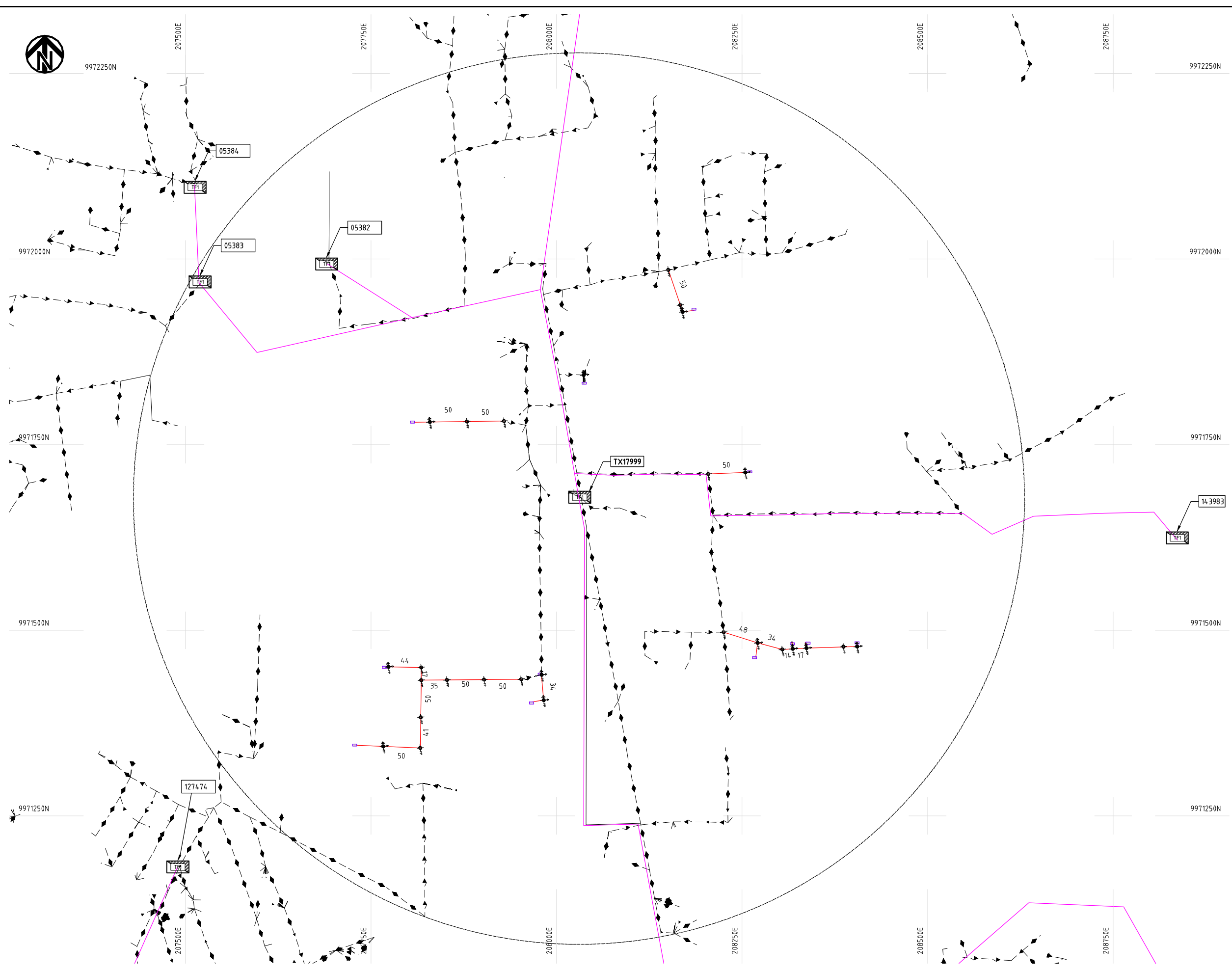
SCALE 1: 5000 (A3)

PROJECT:
THE PREPARATORY SURVEY
ON THE PROJECT FOR IMPROVEMENT
OF POWER DISTRIBUTION SYSTEM
IN THE REPUBLIC OF KENYA

DRAWING TITLE
COUNTY: NYANDARUA
SCHEME: MAXIMIZATION
PROJECT SITE: 50680 Mugetho B/Hole

DRAW. NO. NYA-MA-34	PREPARED BY	A.AKBAR
	CHECKED BY	S.MAETA
	APPROVED BY	Y.TANAKA
	DATE	10th SEP 2018





NOTES:

1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.
5. POLES NOT SHOWN WHERE PME OR LV EARTH INTERSECT FOR CLARITY.

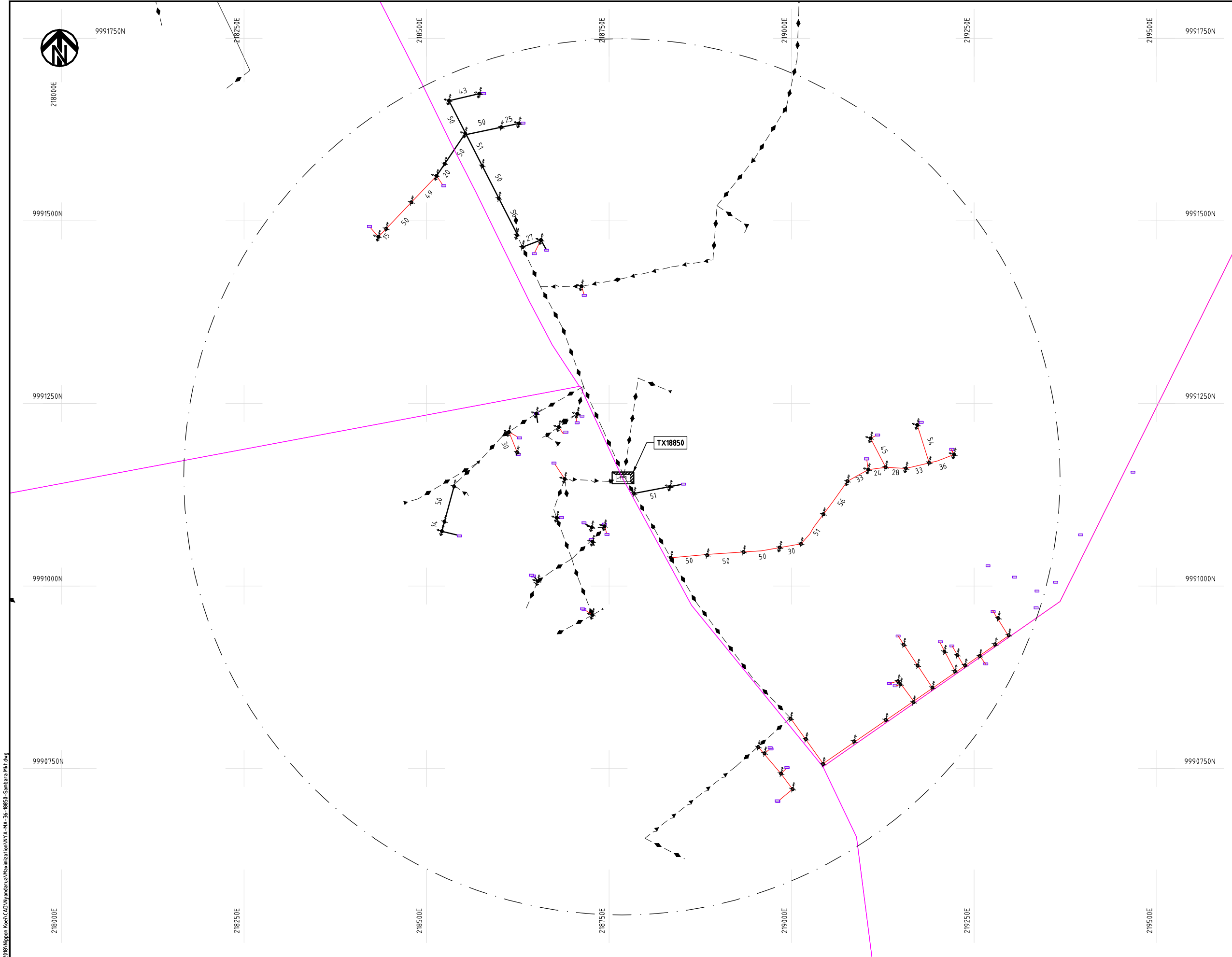
LEGEND

- HOUSEHOLDS/ BUILDINGS
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- OTHER EXISTING TRANSFORMER
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING
- STAY

Cad File No. D:\Frank-Proj\2018\Nippon Koei\CAD\Wyandaru\Maximization\NYA-MA-35-17999 Olkalau Holdings.dwg

PROJECT: THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA	DRAWING TITLE			DRAW. NO.	PREPARED BY	A.AKBAR
	COUNTY: NYANDARUA SCHEME: MAXIMIZATION PROJECT SITE: 17999-Olkalau Holdings			NYA-MA-35	CHECKED BY	S.MAETA
					APPROVED BY	Y.TANAKA
					DATE	10th SEP 2018





- NOTES:**
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
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 5. POLES NOT SHOWN WHERE PME OR LV EARTH INTERSECT FOR CLARITY.

LEGEND

- HOUSEHOLDS/ BUILDINGS
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- OTHER EXISTING TRANSFORMER
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING
- STAY



PROJECT:	DRAWING TITLE			DRAW. NO.		PREPARED BY	A.AKBAR
						CHECKED BY	S.MAETA
	COUNTY: NYANDARUA SCHEME: MAXIMIZATION PROJECT SITE: 18850-Sambara Market			NYA-MA-36		APPROVED BY	Y.TANAKA
						DATE	10th SEP 2018



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9988250N

9988000N

9987750N

9987500N

9987250N

216500E

216750E

217000E

217250E

217500E

217750E

218000E

216500E

216750E

217000E

217250E

217500E

217750E

218000E

NOTES:

1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
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5. POLES NOT SHOWN WHERE PME OR LV EARTH INTERSECT FOR CLARITY.

LEGEND

- HOUSEHOLDS/ BUILDINGS
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- OTHER EXISTING TRANSFORMER
- PP WOODEN ELECTRIC POLES
- CP CONCRETE ELECTRIC POLES
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING
- STAY

SCALE 1:5000 (A3)

PROJECT:

THE PREPARATORY SURVEY
ON THE PROJECT FOR IMPROVEMENT
OF POWER DISTRIBUTION SYSTEM
IN THE REPUBLIC OF KENYA

DRAWING TITLE

COUNTY: NYANDARUA
SCHEME: MAXIMIZATION
PROJECT SITE: 34343-Subuk Township

DRAW. NO.

NYA-MA-37

PREPARED BY

A.AKBAR

CHECKED BY

S.MAETA

APPROVED BY

Y.TANAKA

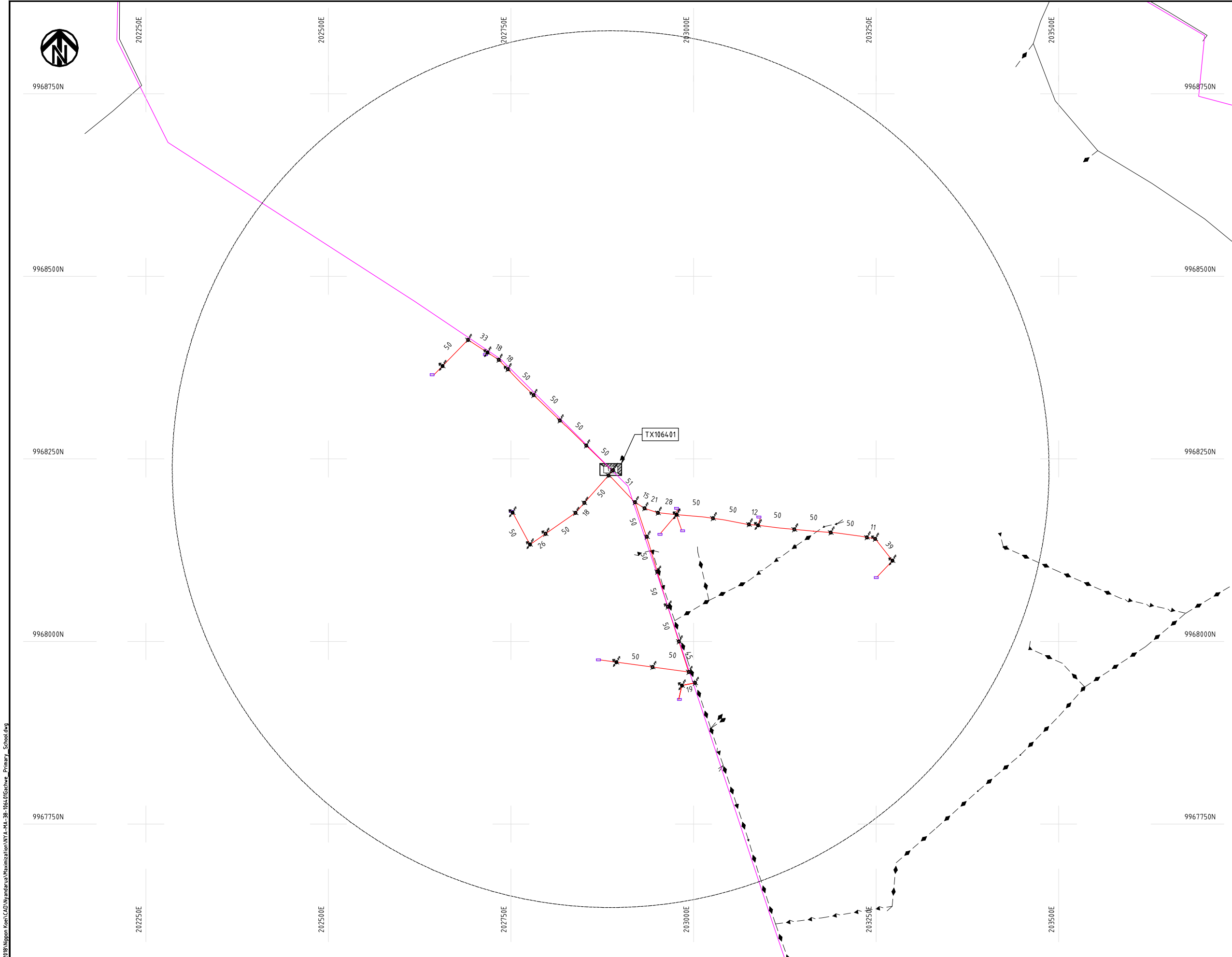
DATE

10th SEP 2018



NIPPON KOEI CO., LTD

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NOTES:

1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.
5. POLES NOT SHOWN WHERE PME OR LV EARTH INTERSECT FOR CLARITY.

LEGEND

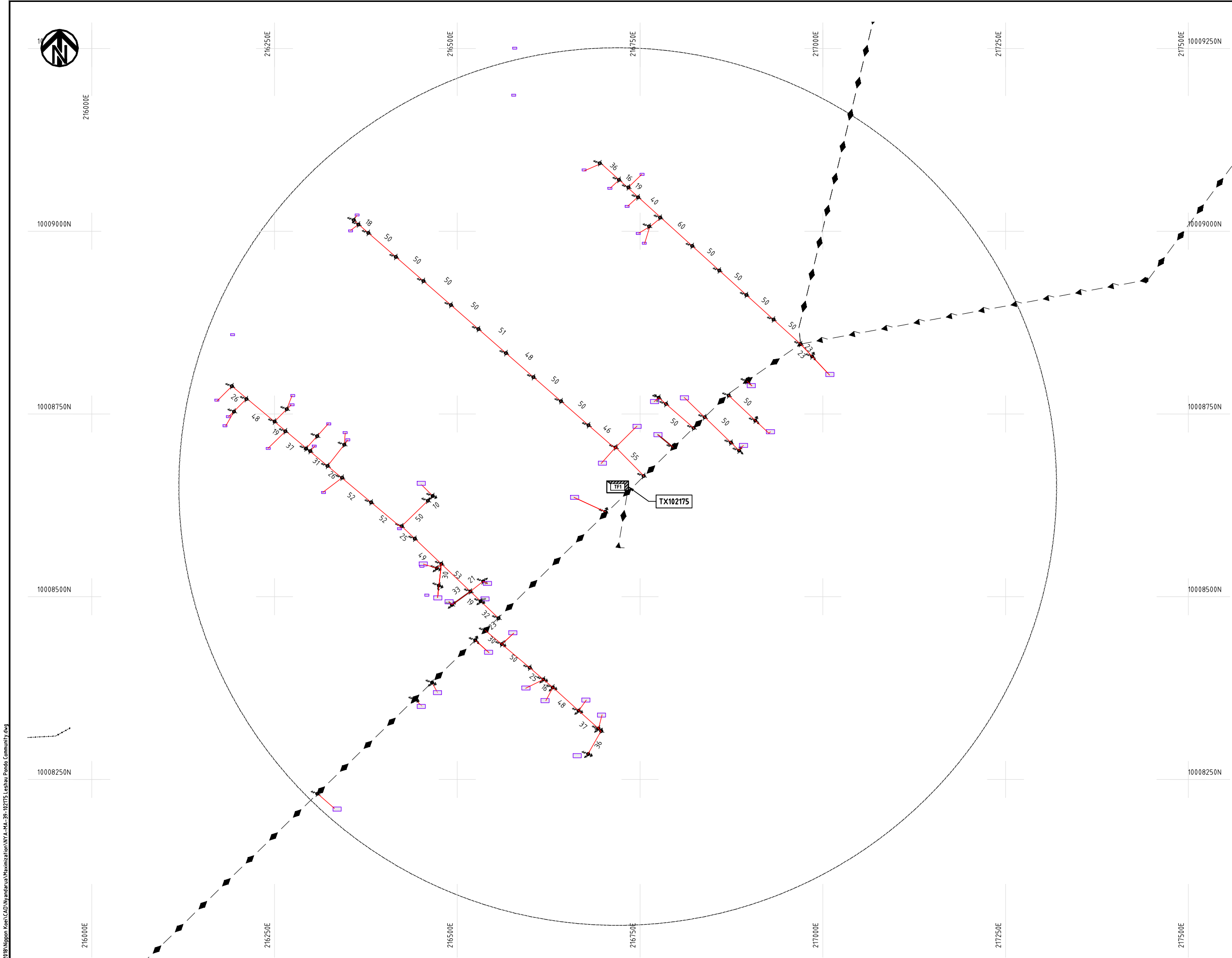
- HOUSEHOLDS/ BUILDINGS
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- OTHER EXISTING TRANSFORMER
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING
- STAY

SCALE 1: 5000 50 0 50 100 150 200 250m (A3)

PROJECT: THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA	DRAWING TITLE		DRAW. NO.	PREPARED BY	A.AKBAR
	COUNTY:	NYANDARUA	NYA-MA-38	CHECKED BY	S.MAETA
	SCHEME:	MAXIMIZATION		APPROVED BY	Y.TANAKA
	PROJECT SITE:	1064.01-Gachwe Pimary School		DATE	10th SEP 2018



Cad File No. D:\Frank-Proj\2018\Nippon Koei\CAD\Wyandarua\Maximization\NYA-MA-39-102175 Leshau Pondo Community.dwg



NOTES:

1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
2. CONCRETE / WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.
5. POLES NOT SHOWN WHERE PME OR LV EARTH INTERSECT FOR CLARITY.

LEGEND

- HOUSEHOLDS/ BUILDINGS
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- OTHER EXISTING TRANSFORMER
- PP WOODEN ELECTRIC POLES
- CP CONCRETE ELECTRIC POLES
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING
- STAY

SCALE 1 : 5000 (A3)

PROJECT:

THE PREPARATORY SURVEY
ON THE PROJECT FOR IMPROVEMENT
OF POWER DISTRIBUTION SYSTEM
IN THE REPUBLIC OF KENYA

DRAWING TITLE

COUNTY: NYANDARUA
SCHEME: MAXIMIZATION
PROJECT SITE: 102175 LESHAU PONDO COMMUNITY

DRAW. NO.

NYA-MA-39

PREPARED BY

A.AKBAR

CHECKED BY

S.MAETA

APPROVED BY

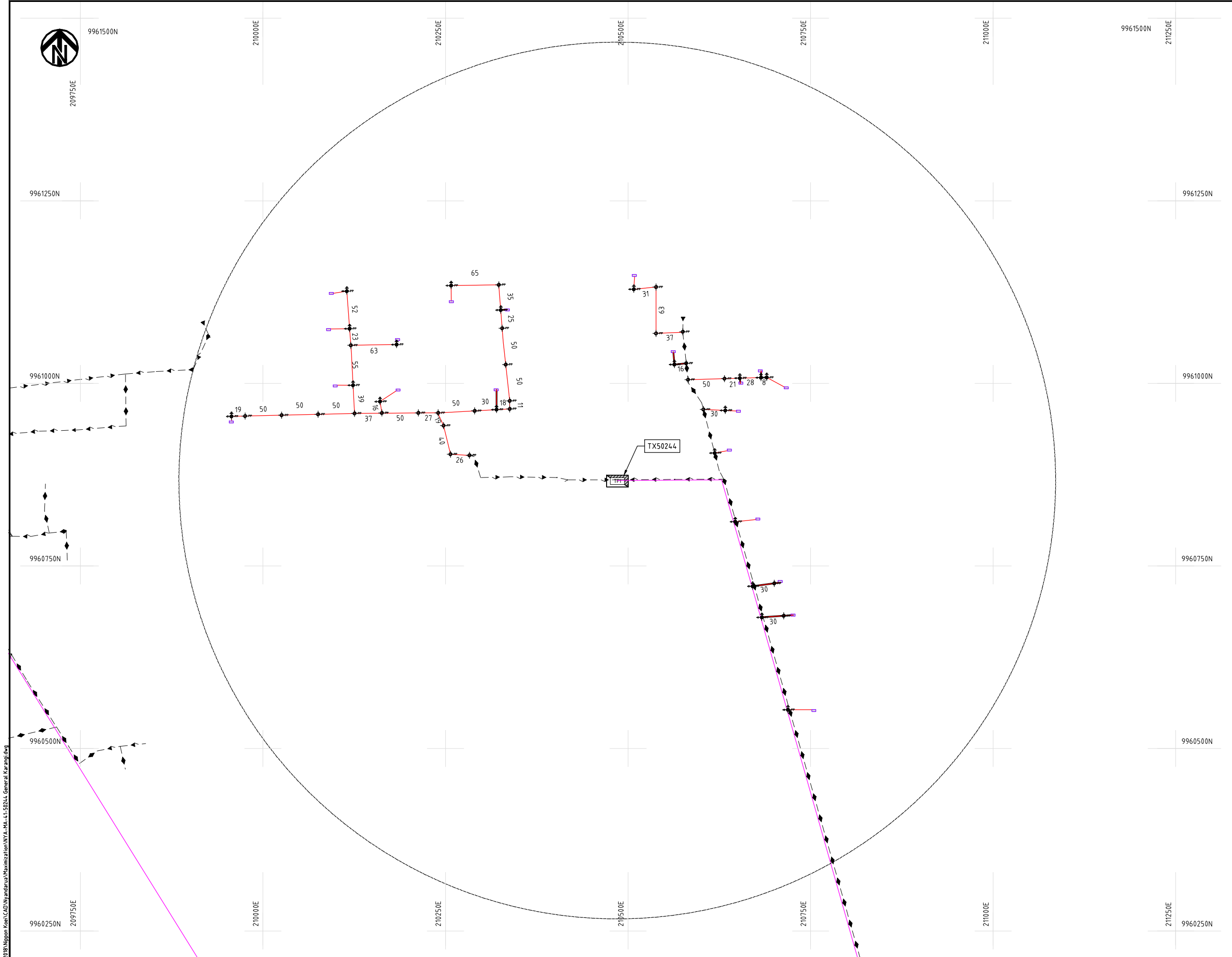
Y.TANAKA

DATE

10th SEP 2018



NIPPON KOEI CO., LTD



NOTES:

1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.
5. POLES NOT SHOWN WHERE PME OR LV EARTH INTERSECT FOR CLARITY.

LEGEND

- HOUSEHOLDS/ BUILDINGS
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- OTHER EXISTING TRANSFORMER
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING
- STAY

SCALE 1 : 5000 (A3)

Cad File No. : D:\Frank-Proj\2018\Nippon Koei\CAD\Wyandarua\Maximization\NYA-MA-41-50244_General Karangi.dwg

PROJECT: THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA	DRAWING TITLE		DRAW. NO.	PREPARED BY	A.AKBAR
	COUNTY:	NYANDARUA	NYA-MA-41	CHECKED BY	S.MAETA
	SCHEME:	MAXIMIZATION		APPROVED BY	Y.TANAKA
	PROJECT SITE:	50244-General Karangi Julius		DATE	10th SEP 2018





10009250N

10009000N

10008750N

214250E

214500E

214500E

214750E

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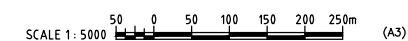
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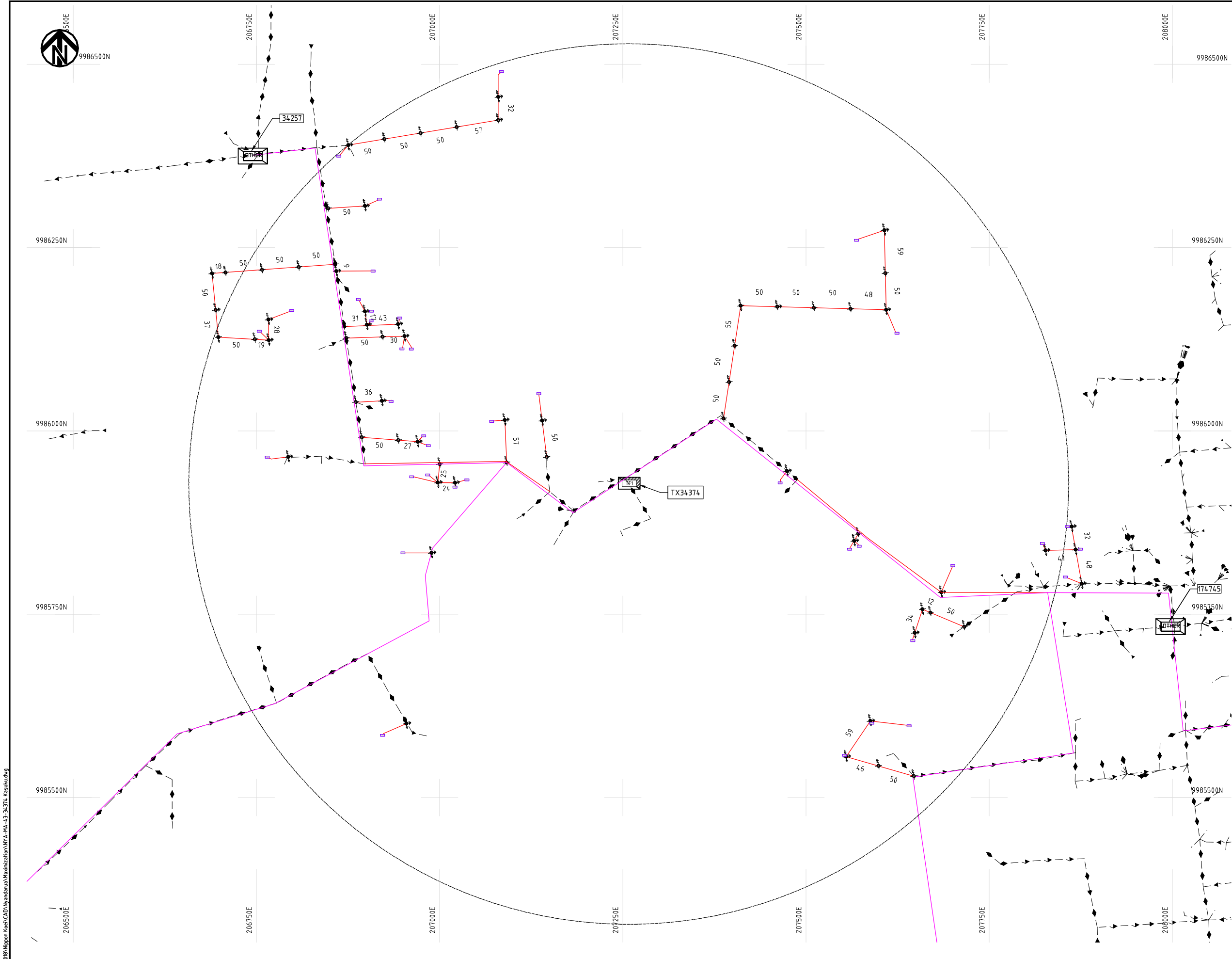
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1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.

	HOUSEHOLDS/ BUILDINGS
	PROPOSED 11kV
	PROPOSED 33kV
	PROPOSED DISTRIBUTION LINE
	EXISTING 11kV LINE
	EXISTING 33kV LINE
	EXISTING DISTRIBUTION LINE
	MAXIMISATION TRANSFORMER
	EXTENSION TRANSFORMER
	WOODEN ELECTRIC POLES
	CP CONCRETE ELECTRIC POLES 12M
	CP CONCRETE ELECTRIC POLES 11M
	LV-EARTH
	PME -PROTECTIVE MULTIPLE EARTHING
	STAY



 NIPPON KOEI CO., LTD



- NOTES:**
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.
 5. POLES NOT SHOWN WHERE PME OR LV EARTH INTERSECT FOR CLARITY.

- LEGEND**
- HOUSEHOLDS/ BUILDINGS
 - PROPOSED DISTRIBUTION LINE
 - EXISTING 11kV LINE
 - EXISTING 33kV LINE
 - EXISTING DISTRIBUTION LINE
 - MAXIMISATION TRANSFORMER
 - EXTENSION TRANSFORMER
 - OTHER EXISTING TRANSFORMER
 - PP WOODEN ELECTRIC POLES
 - CP CONCRETE ELECTRIC POLES
 - LV-EARTH
 - PME -PROTECTIVE MULTIPLE EARTHING
 - STAY

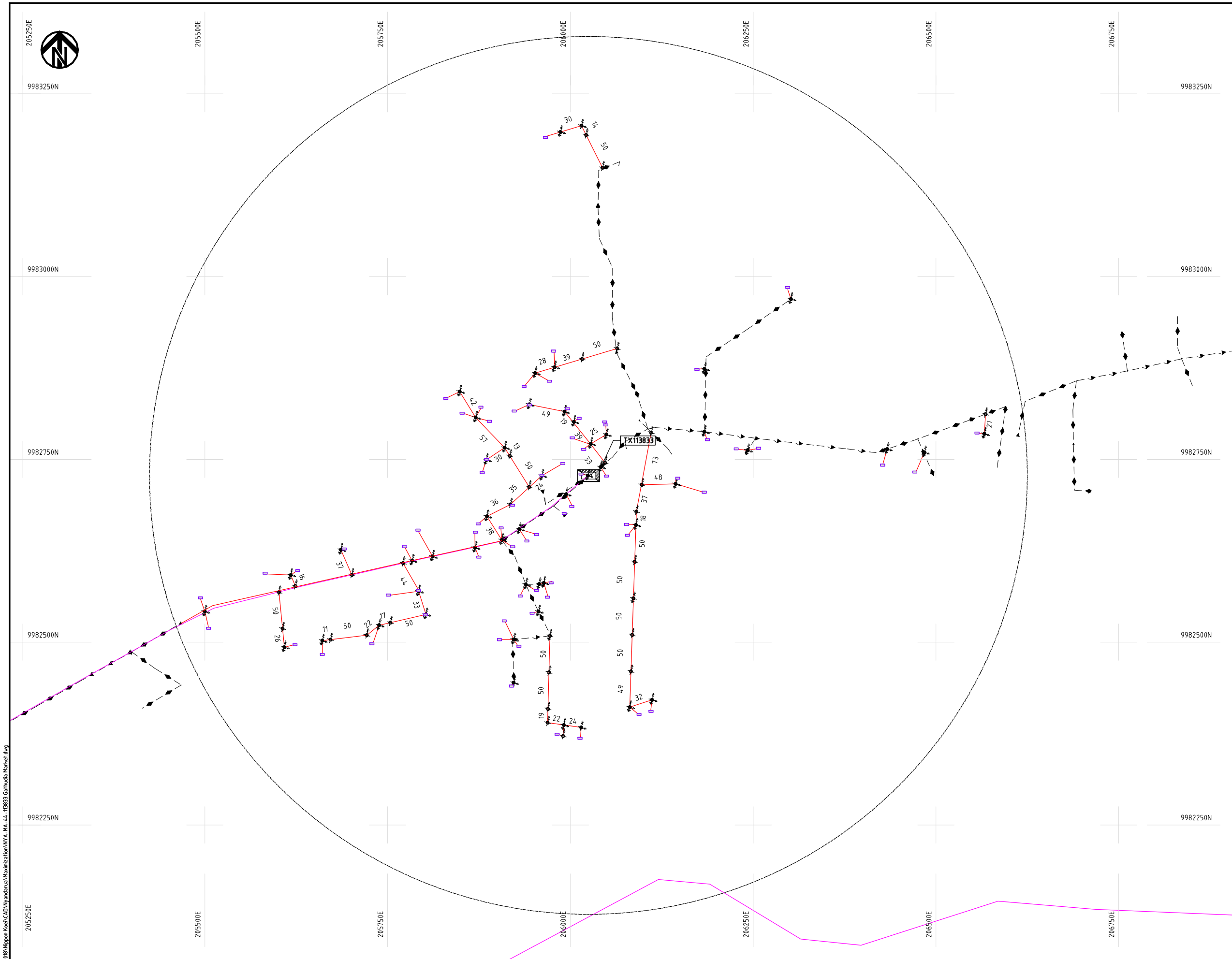


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PROJECT: THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA	DRAWING TITLE		DRAW. NO.	PREPARED BY	A.AKBAR
	COUNTY: NYANDARUA SCHEME: MAXIMIZATION PROJECT SITE: 34374-Kasuku		NYA-MA-43	CHECKED BY	S.MAETA
				APPROVED BY	Y.TANAKA
				DATE	10th SEP 2018



Cad File No.: D:\Frank-Proj\2018\Nippon Koei\CAD\Wyandara\Maximization\NYA-MA-44-113833 Gathudia Market.dwg



NOTES:

1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.
5. POLES NOT SHOWN WHERE PME OR LV EARTH INTERSECT FOR CLARITY.

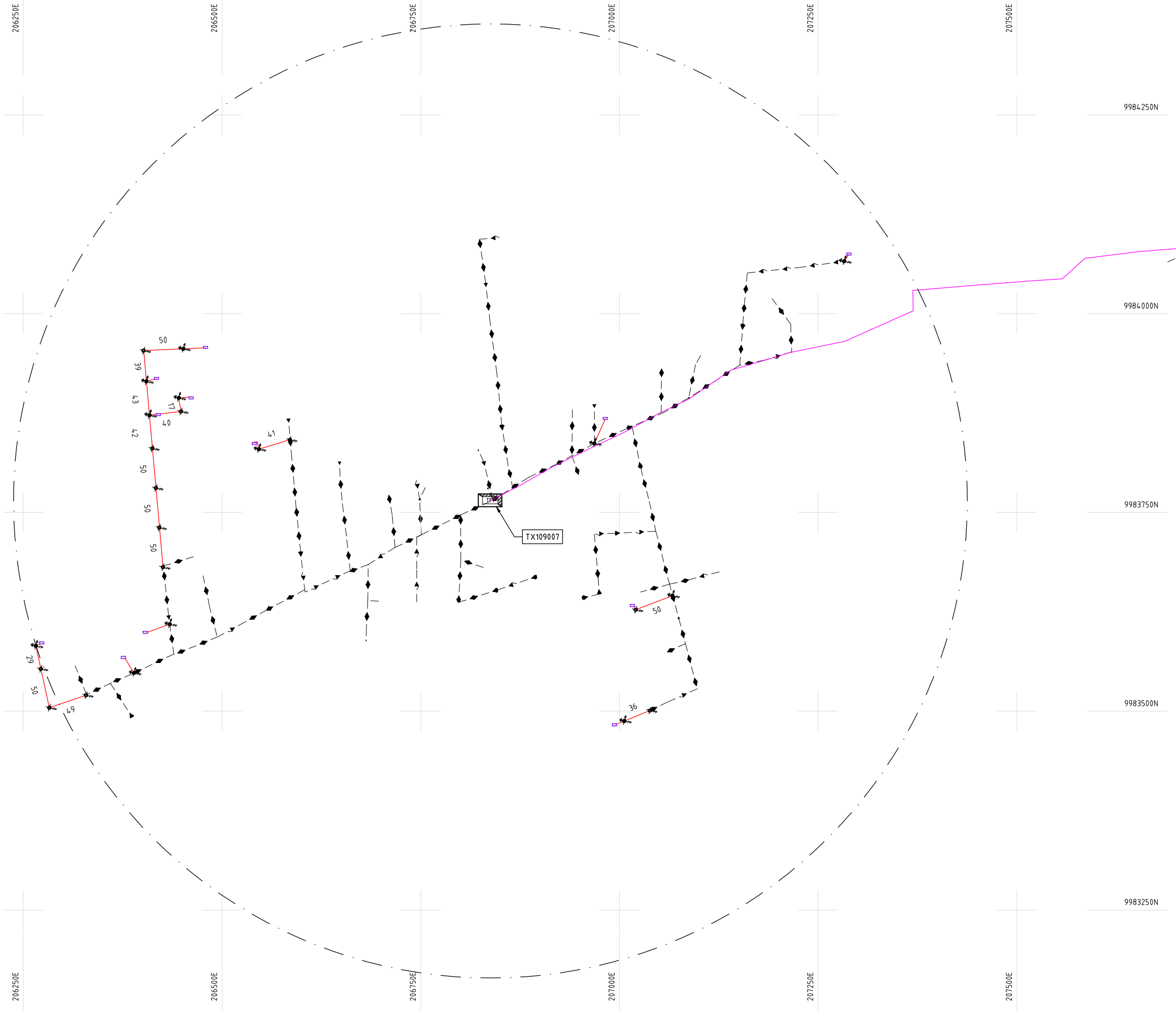
LEGEND

- HOUSEHOLDS/ BUILDINGS
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- OTHER EXISTING TRANSFORMER
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING
- STAY

SCALE 1: 5000 (A3)

PROJECT:		DRAWING TITLE		DRAW. NO.	PREPARED BY	A.AKBAR
THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA		COUNTY: NYANDARUA SCHEME: MAXIMIZATION PROJECT SITE: 113833-Gathudia Market		NYA-MA-44	CHECKED BY	S.MAETA
					APPROVED BY	Y.TANAKA
					DATE	10th SEP 2018

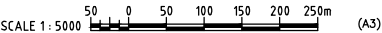




- NOTES:**
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 2. CONCRETE / WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.
 5. POLES NOT SHOWN WHERE PME OR LV EARTH INTERSECT FOR CLARITY.

LEGEND

	HOUSEHOLDS/ BUILDINGS
	PROPOSED DISTRIBUTION LINE
	EXISTING 11kV LINE
	EXISTING 33kV LINE
	EXISTING DISTRIBUTION LINE
	MAXIMISATION TRANSFORMER
	EXTENSION TRANSFORMER
	OTHER EXISTING TRANSFORMER
	WOODEN ELECTRIC POLES
	CONCRETE ELECTRIC POLES
	LV-EARTH
	PME -PROTECTIVE MULTIPLE EARTHING
	STAY



Cad File No. D:\Frank-Proj\2018\Nippon Koei\CAD\Nyandarua Maximization\NYA-MA-45-109007 Olkalau 11kV Ex Nyahururu.dwg

PROJECT:	DRAWING TITLE		DRAW. NO.	PREPARED BY	A.AKBAR
			NYA-MA-45	CHECKED BY	S.MAETA
	COUNTY: NYANDARUA SCHEME: MAXIMIZATION PROJECT SITE: 109007-Olkalau 11kV Ex Nyahururu			APPROVED BY	Y.TANAKA
				DATE	10th SEP 2018





9984.250N

9984.000N

9983.750N

9983.500N

9983.250N

208750E

209000E

209250E

209500E

209750E

210000E

9984.250N

9984.000N

9983.750N

9983.500N

9983.250N

208750E

209000E

209250E

209500E

209750E

210000E

NOTES:

1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
2. CONCRETE / WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.
5. POLES NOT SHOWN WHERE PME OR LV EARTH INTERSECT FOR CLARITY.

LEGEND

- HOUSEHOLDS/ BUILDINGS
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- OTHER EXISTING TRANSFORMER
- PP WOODEN ELECTRIC POLES
- CP CONCRETE ELECTRIC POLES
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING
- STAY

SCALE 1:5000 (A3)

PROJECT:

THE PREPARATORY SURVEY
ON THE PROJECT FOR IMPROVEMENT
OF POWER DISTRIBUTION SYSTEM
IN THE REPUBLIC OF KENYA

DRAWING TITLE

COUNTY: NYANDARUA
SCHEME: MAXIMIZATION
PROJECT SITE: 35394-0lkalau 11kV Ex Nyahururu

DRAW. NO.

NYA-MA-46

PREPARED BY

A.AKBAR

CHECKED BY

S.MAETA

APPROVED BY

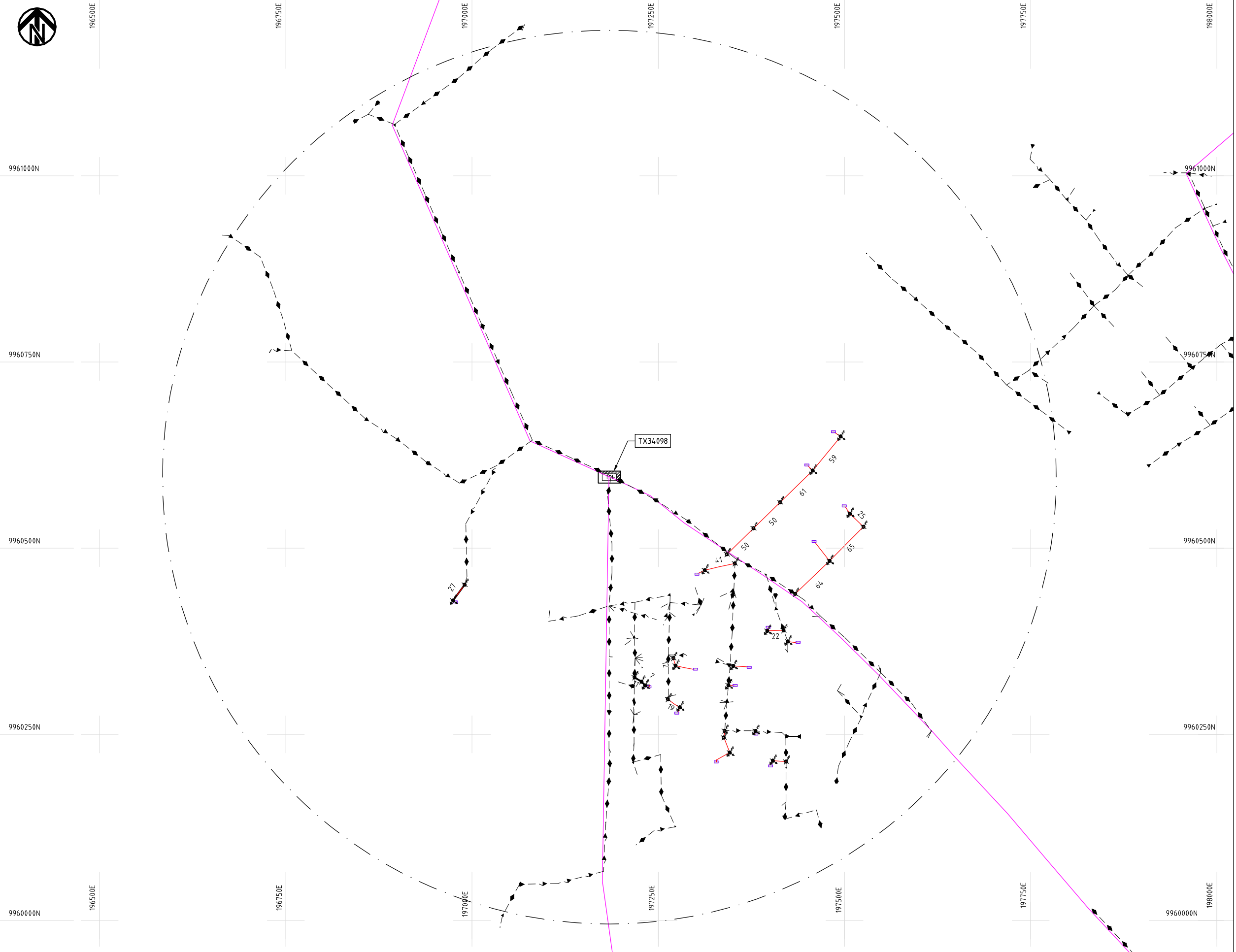
Y.TANAKA

DATE

10th SEP 2018



NIPPON KOEI CO., LTD



NOTES:

1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
2. CONCRETE / WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.
5. POLES NOT SHOWN WHERE PME OR LV EARTH INTERSECT FOR CLARITY.

LEGEND

- HOUSEHOLDS/ BUILDINGS
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- OTHER EXISTING TRANSFORMER
- PP WOODEN ELECTRIC POLES
- CP CONCRETE ELECTRIC POLES
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING
- STAY

SCALE 1:5000 (A3)

PROJECT:
THE PREPARATORY SURVEY
ON THE PROJECT FOR IMPROVEMENT
OF POWER DISTRIBUTION SYSTEM
IN THE REPUBLIC OF KENYA

DRAWING TITLE
COUNTY: NYANDARUA
SCHEME: MAXIMIZATION
PROJECT SITE: 34098-Kanjui Sec School

DRAW. NO.	PREPARED BY	A.AKBAR
NYA-MA-47	CHECKED BY	S.MAETA
	APPROVED BY	Y.TANAKA
	DATE	10th SEP 2018





9941750N

9941500N

9941250N

9941000N

9940750N

217000E

217250E

217500E

217750E

218000E

218250E

9941750N

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217000E

217250E

217500E

217750E

218000E

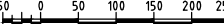
218250E

NOTES:

1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
2. CONCRETE / WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
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5. POLES NOT SHOWN WHERE PME OR LV EARTH INTERSECT FOR CLARITY.

LEGEND

-  HOUSEHOLDS/ BUILDINGS
-  PROPOSED DISTRIBUTION LINE
-  EXISTING 11kV LINE
-  EXISTING 33kV LINE
-  EXISTING DISTRIBUTION LINE
-  MAXIMISATION TRANSFORMER
-  EXTENSION TRANSFORMER
-  OTHER EXISTING TRANSFORMER
-  WOODEN ELECTRIC POLES
-  CONCRETE ELECTRIC POLES
-  LV-EARTH
-  PME -PROTECTIVE MULTIPLE EARTHING
-  STAY

SCALE 1:5000  (A3)

PROJECT:

THE PREPARATORY SURVEY
ON THE PROJECT FOR IMPROVEMENT
OF POWER DISTRIBUTION SYSTEM
IN THE REPUBLIC OF KENYA

DRAWING TITLE

COUNTY: NYANDARUA
SCHEME: MAXIMIZATION
PROJECT SITE: 35805 Kihumbu School

DRAW. NO.

NYA-MA-48

PREPARED BY

A.AKBAR

CHECKED BY

S.MAETA

APPROVED BY

Y.TANAKA

DATE

10th SEP 2018



NIPPON KOEI CO., LTD



9928750N

233000E

233250E

233500E

233750E

234000E

234250E

234500E

9928500N

9928750N

9928250N

9928500N

9928000N

9928250N

9927750N

9928000N

233000E

233250E

233500E

233750E

234000E

234250E

234500E

NOTES:

1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
2. CONCRETE / WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.
5. POLES NOT SHOWN WHERE PME OR LV EARTH INTERSECT FOR CLARITY.

LEGEND

- HOUSEHOLDS/ BUILDINGS
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- OTHER EXISTING TRANSFORMER
- PP WOODEN ELECTRIC POLES
- CP CONCRETE ELECTRIC POLES
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING
- STAY

SCALE 1:5000 (A3)

PROJECT:

THE PREPARATORY SURVEY
ON THE PROJECT FOR IMPROVEMENT
OF POWER DISTRIBUTION SYSTEM
IN THE REPUBLIC OF KENYA

DRAWING TITLE

COUNTY: NYANDARUA
SCHEME: MAXIMIZATION
PROJECT SITE: 50966-Tulaga Line Moja

DRAW. NO.

NYA-MA-49

PREPARED BY

A.AKBAR

CHECKED BY

S.MAETA

APPROVED BY

Y.TANAKA

DATE

10th SEP 2018

NIPPON KOEI CO., LTD



9932250N

9932000N

9931750N

9931500N

9931250N

228500E

228750E

229000E

229250E

229500E

229750E

9932250N

9932000N

9931750N

9931500N

9931250N

228500E

228750E

229000E

229250E

229500E

229750E

PROJECT:

THE PREPARATORY SURVEY
ON THE PROJECT FOR IMPROVEMENT
OF POWER DISTRIBUTION SYSTEM
IN THE REPUBLIC OF KENYA

DRAWING TITLE

COUNTY: NYANDARUA
SCHEME: MAXIMIZATION
PROJECT SITE: 18527-Engineer TC

DRAW. NO.

NYA-MA-50

PREPARED BY

A.AKBAR

CHECKED BY

S.MAETA

APPROVED BY

Y.TANAKA

DATE

10th SEP 2018

NOTES:

1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
2. CONCRETE / WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.
5. POLES NOT SHOWN WHERE PME OR LV EARTH INTERSECT FOR CLARITY.

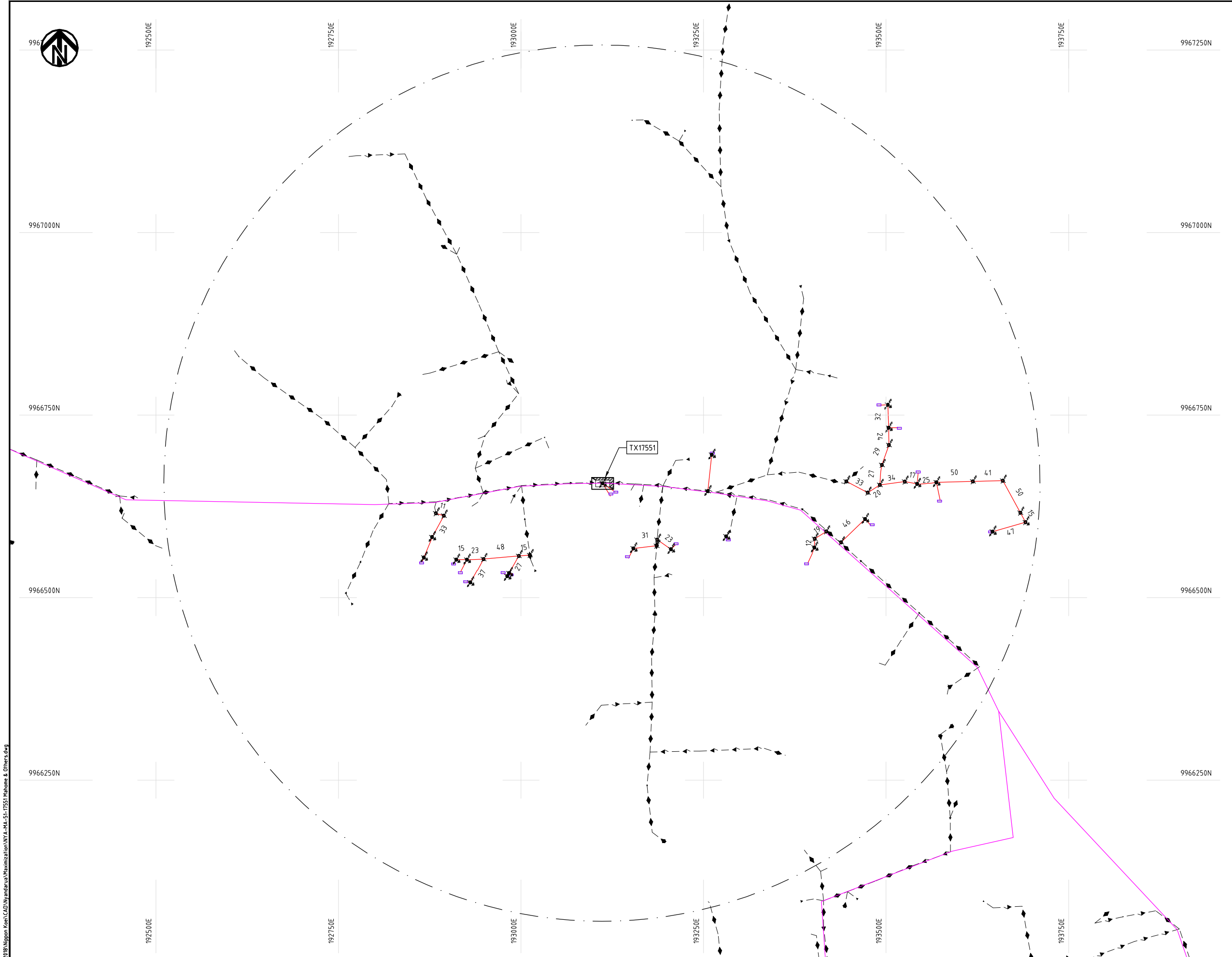
LEGEND

- HOUSEHOLDS/ BUILDINGS
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- OTHER EXISTING TRANSFORMER
- PP WOODEN ELECTRIC POLES
- CP CONCRETE ELECTRIC POLES
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING
- STAY

SCALE 1:5000 (A3)



NIPPON KOEI CO., LTD



- NOTES:**
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
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- LEGEND**
- HOUSEHOLDS/ BUILDINGS
 - PROPOSED DISTRIBUTION LINE
 - EXISTING 11kV LINE
 - EXISTING 33kV LINE
 - EXISTING DISTRIBUTION LINE
 - MAXIMISATION TRANSFORMER
 - EXTENSION TRANSFORMER
 - OTHER EXISTING TRANSFORMER
 - WOODEN ELECTRIC POLES
 - CONCRETE ELECTRIC POLES
 - LV-EARTH
 - PME -PROTECTIVE MULTIPLE EARTHING
 - STAY

SCALE 1: 5000 50 0 50 100 150 200 250m (A3)

Cad File No. D:\Frank-Proj\2018\Nippon Koei\CAD\Wandaru\Maximization\NYA-MA-51-17551 Mahome & Others.dwg

	PROJECT: THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA	DRAWING TITLE		DRAW. NO.	PREPARED BY	A.AKBAR
		COUNTY: NYANDARUA SCHEME: MAXIMIZATION PROJECT SITE: 17551-Mahome & Others	NYA-MA-51	CHECKED BY	S.MAETA	
				APPROVED BY	Y.TANAKA	
				DATE	10th SEP 2018	





202500E

202750E

203000E

203250E

203750E

9984250N

9984250N

9984000N

9984000N

9983750N

9983750N

9983500N

9983500N

9983250N

9983250N

202500E

202750E

203000E

203250E

203500E

203750E

NOTES:

1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
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5. POLES NOT SHOWN WHERE PME OR LV EARTH INTERSECT FOR CLARITY.

LEGEND

- HOUSEHOLDS/ BUILDINGS
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- OTHER EXISTING TRANSFORMER
- PP WOODEN ELECTRIC POLES
- CP CONCRETE ELECTRIC POLES
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING
- STAY

SCALE 1:5000 (A3)

PROJECT:

THE PREPARATORY SURVEY
ON THE PROJECT FOR IMPROVEMENT
OF POWER DISTRIBUTION SYSTEM
IN THE REPUBLIC OF KENYA

DRAWING TITLE

COUNTY: NYANDARUA
SCHEME: MAXIMIZATION
PROJECT SITE: 35090-Kirimangai Mkt

DRAW. NO.

NYA-MA-52

PREPARED BY

A.AKBAR

CHECKED BY

S.MAETA

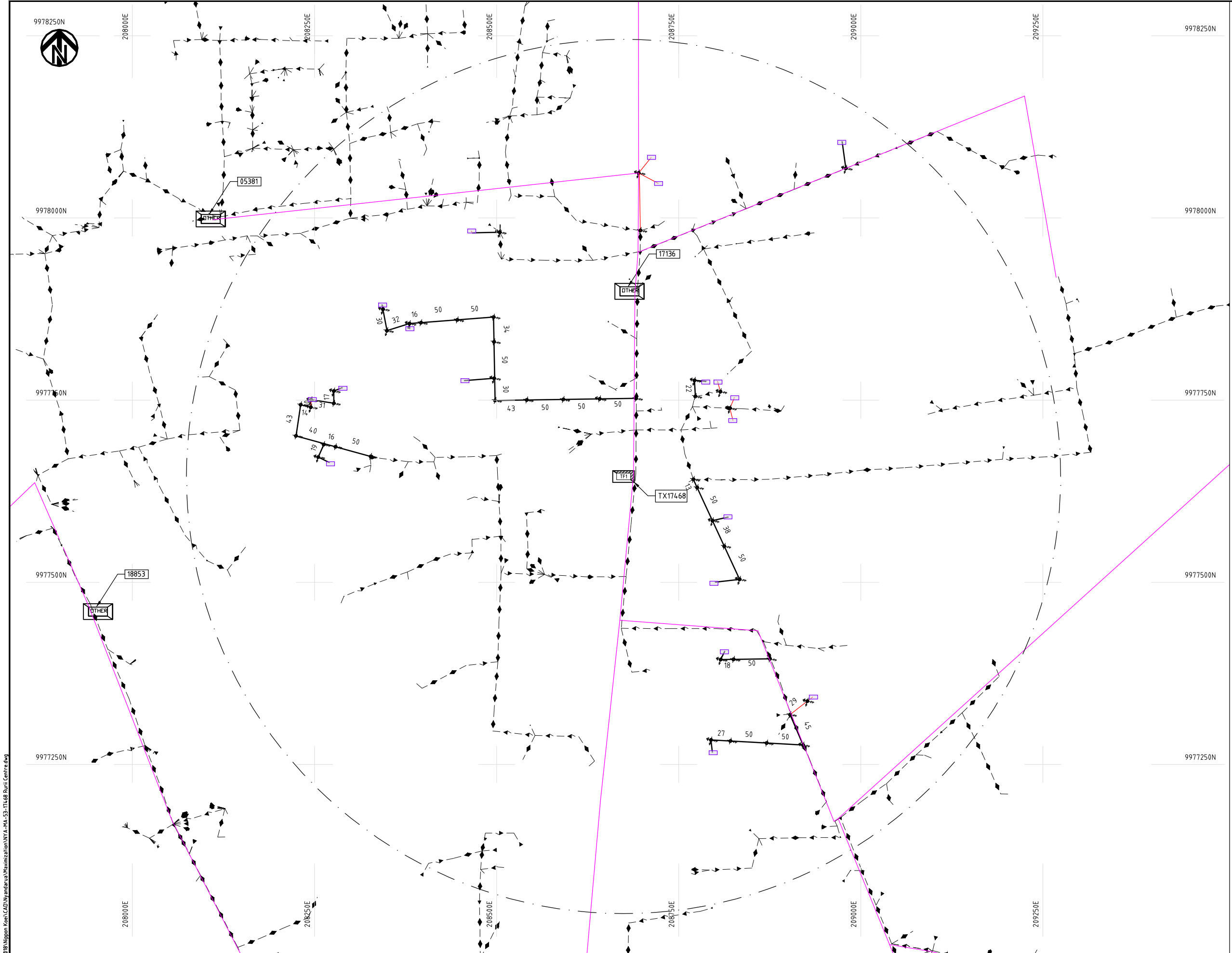
APPROVED BY

Y.TANAKA

DATE

10th SEP 2018

NIPPON KOEI CO., LTD



NOTES:

1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
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5. POLES NOT SHOWN WHERE PME OR LV EARTH INTERSECT FOR CLARITY.

LEGEND

- HOUSEHOLDS/ BUILDINGS
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- OTHER EXISTING TRANSFORMER
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING
- STAY

SCALE 1:5000 50 0 50 100 150 200 250m (A3)

Cad File No. D:\Frank-Proj\2018\Nippon Koei\CAD\Nyandarua\Maximization\NYA-MA-53-17468 Rurii Centre.dwg

PROJECT:	DRAWING TITLE			DRAW. NO.	PREPARED BY	A.AKBAR
	COUNTY: NYANDARUA SCHEME: MAXIMIZATION PROJECT SITE: 17468-Rurii Centre			NYA-MA-53	CHECKED BY	S.MAETA
					APPROVED BY	Y.TANAKA
					DATE	10th SEP 2018



Cad File No. D:\Frank-Proj\2018\Nippon Koei\CAD\Wyandarua\Maximization\NYA-MA-54-3432-KANYAGIA.dwg



9991750N

218000E

9991500N

9991250N

9991000N

9990750N

218000E

218250E

218250E

218500E

218500E

218750E

218750E

219000E

219250E

219250E

219500E

219500E

9991750N

9991500N

9991250N

9991000N

9990750N

NOTES:

1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
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3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.
5. POLES NOT SHOWN WHERE PME OR LV EARTH INTERSECT FOR CLARITY.

LEGEND

- HOUSEHOLDS/ BUILDINGS
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- OTHER EXISTING TRANSFORMER
- PP WOODEN ELECTRIC POLES
- CP CONCRETE ELECTRIC POLES
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING
- STAY

SCALE 1:5000 (A3)

PROJECT:

THE PREPARATORY SURVEY
ON THE PROJECT FOR IMPROVEMENT
OF POWER DISTRIBUTION SYSTEM
IN THE REPUBLIC OF KENYA

DRAWING TITLE

COUNTY: NYANDARUA
SCHEME: MAXIMIZATION
PROJECT SITE: 34342-KANYAGIA CENTRE

DRAW. NO.

NYA-MA-54

PREPARED BY

A.AKBAR

CHECKED BY

S.MAETA

APPROVED BY

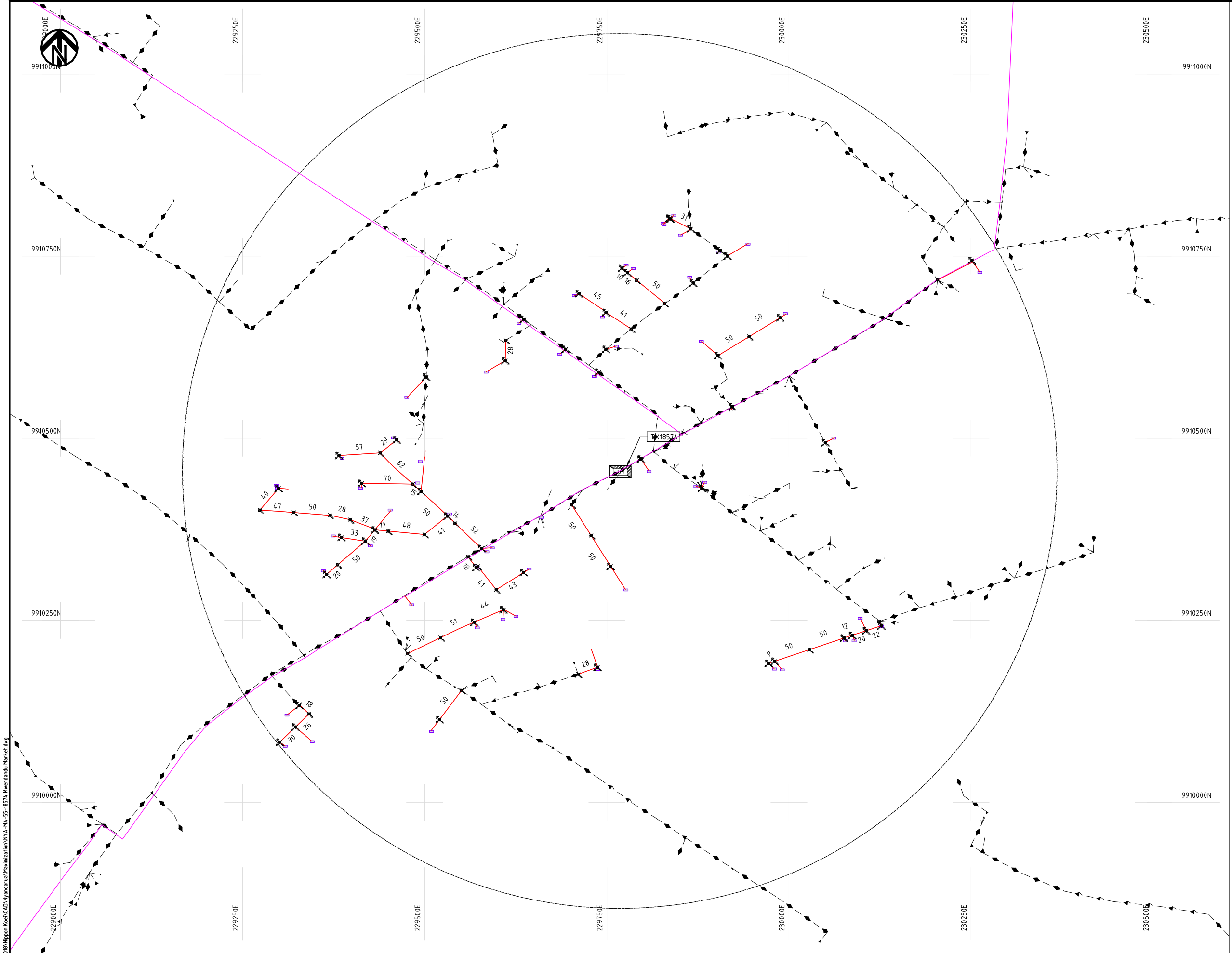
Y.TANAKA

DATE

10th SEP 2018



NIPPON KOEI CO., LTD



- NOTES:**
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.
 5. POLES NOT SHOWN WHERE PME OR LV EARTH INTERSECT FOR CLARITY.

- LEGEND**
- HOUSEHOLDS/ BUILDINGS
 - PROPOSED DISTRIBUTION LINE
 - EXISTING 11kV LINE
 - EXISTING 33kV LINE
 - EXISTING DISTRIBUTION LINE
 - MAXIMISATION TRANSFORMER
 - EXTENSION TRANSFORMER
 - OTHER EXISTING TRANSFORMER
 - WOODEN ELECTRIC POLES
 - CONCRETE ELECTRIC POLES
 - LV-EARTH
 - PME -PROTECTIVE MULTIPLE EARTHING
 - STAY



Cad File No. D:\Frank-Proj\2018\Nippon Koei\CAD\Nyandarua\Maximization\NYA-MA-55-18574_Mwendandu Market.dwg

PROJECT: THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA	DRAWING TITLE		DRAW. NO.	PREPARED BY	A.AKBAR
	COUNTY: NYANDARUA SCHEME: MAXIMIZATION PROJECT SITE: 18574-Mwendandu Market		NYA-MA-55	CHECKED BY	S.MAETA
				APPROVED BY	Y.TANAKA
				DATE	10th SEP 2018





9934.750N

220250E

9934.500N

9934.250N

9934.000N

9933.750N

220250E

220500E

220500E

220750E

220750E

221000E

221000E

221250E

221250E

221500E

221500E

221750E

9934.750N

9934.500N

9934.250N

9934.000N

9933.750N

NOTES:

1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
2. CONCRETE / WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.
5. POLES NOT SHOWN WHERE PME OR LV EARTH INTERSECT FOR CLARITY.

LEGEND

- HOUSEHOLDS/ BUILDINGS
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- OTHER EXISTING TRANSFORMER
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING
- STAY

SCALE 1:5000 50 0 50 100 150 200 250m (A3)

PROJECT:

THE PREPARATORY SURVEY
ON THE PROJECT FOR IMPROVEMENT
OF POWER DISTRIBUTION SYSTEM
IN THE REPUBLIC OF KENYA

DRAWING TITLE

COUNTY: NYANDARUA
SCHEME: MAXIMIZATION
PROJECT SITE: 17267-Murungaru Centre

DRAW. NO.

NYA-MA-56

PREPARED BY

A.AKBAR

CHECKED BY

S.MAETA

APPROVED BY

Y.TANAKA

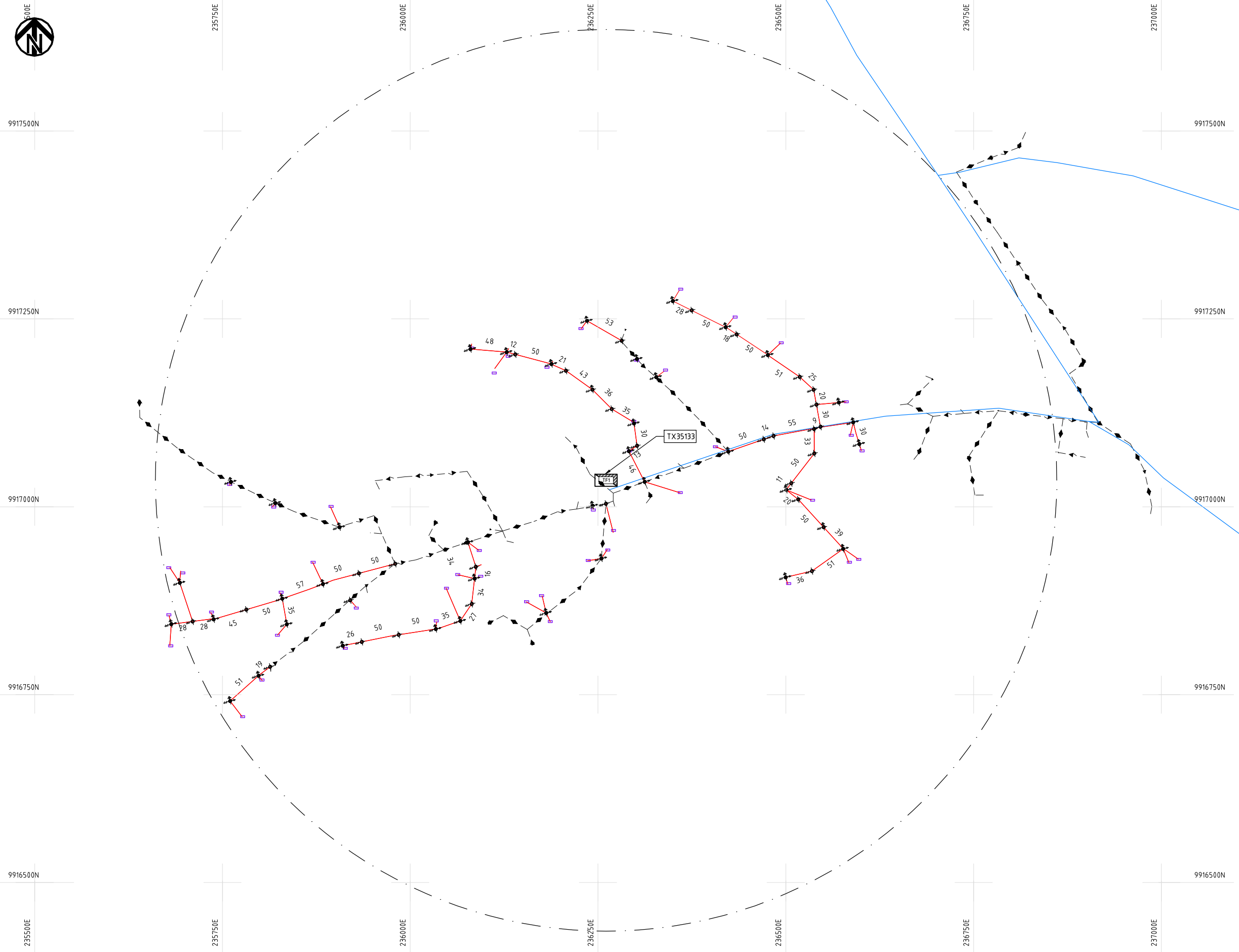
DATE

10th SEP 2018



NIPPON KOEI CO., LTD

Cad File No. D:\Frank-Proj\2018\Nippon Koei\CAD\Wyangdarua\Maximization\NYA-MA-57-35133 Yaanga Pri Sec School.dwg



NOTES:

1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.
5. POLES NOT SHOWN WHERE PME OR LV EARTH INTERSECT FOR CLARITY.

LEGEND

- HOUSEHOLDS/ BUILDINGS
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- OTHER EXISTING TRANSFORMER
- PP WOODEN ELECTRIC POLES
- CP CONCRETE ELECTRIC POLES
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING
- STAY

SCALE 1: 5000 (A3)

PROJECT:

THE PREPARATORY SURVEY
ON THE PROJECT FOR IMPROVEMENT
OF POWER DISTRIBUTION SYSTEM
IN THE REPUBLIC OF KENYA

DRAWING TITLE

COUNTY: NYANDARUA
SCHEME: MAXIMIZATION
PROJECT SITE: 35133-Yaanga Pri Sec School

DRAW. NO.

NYA-MA-57

PREPARED BY

A.AKBAR

CHECKED BY

S.MAETA

APPROVED BY

Y.TANAKA

DATE

10th SEP 2018



NIPPON KOEI CO., LTD



200250E

200500E

200750E

201000E

201250E

201500E

201750E

9980500N

9980250N

9980000N

9979750N

9979500N

9980500N

9980250N

9980000N

9979750N

9979500N

PROJECT:

THE PREPARATORY SURVEY
ON THE PROJECT FOR IMPROVEMENT
OF POWER DISTRIBUTION SYSTEM
IN THE REPUBLIC OF KENYA

DRAWING TITLE

COUNTY: NYANDARUA
SCHEME: MAXIMIZATION
PROJECT SITE: 50801-Passenga Area

DRAW. NO.

NYA-MA-58

PREPARED BY

CHECKED BY

APPROVED BY

DATE

A.AKBAR

S.MAETA

Y.TANAKA

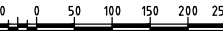
10th SEP 2018

NOTES:

1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
2. CONCRETE / WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.
5. POLES NOT SHOWN WHERE PME OR LV EARTH INTERSECT FOR CLARITY.

LEGEND

-  HOUSEHOLDS/ BUILDINGS
-  PROPOSED DISTRIBUTION LINE
-  EXISTING 11kV LINE
-  EXISTING 33kV LINE
-  EXISTING DISTRIBUTION LINE
-  MAXIMISATION TRANSFORMER
-  EXTENSION TRANSFORMER
-  OTHER EXISTING TRANSFORMER
-  WOODEN ELECTRIC POLES
-  CONCRETE ELECTRIC POLES
-  LV-EARTH
-  PME -PROTECTIVE MULTIPLE EARTHING
-  STAY

SCALE 1:5000  (A3)

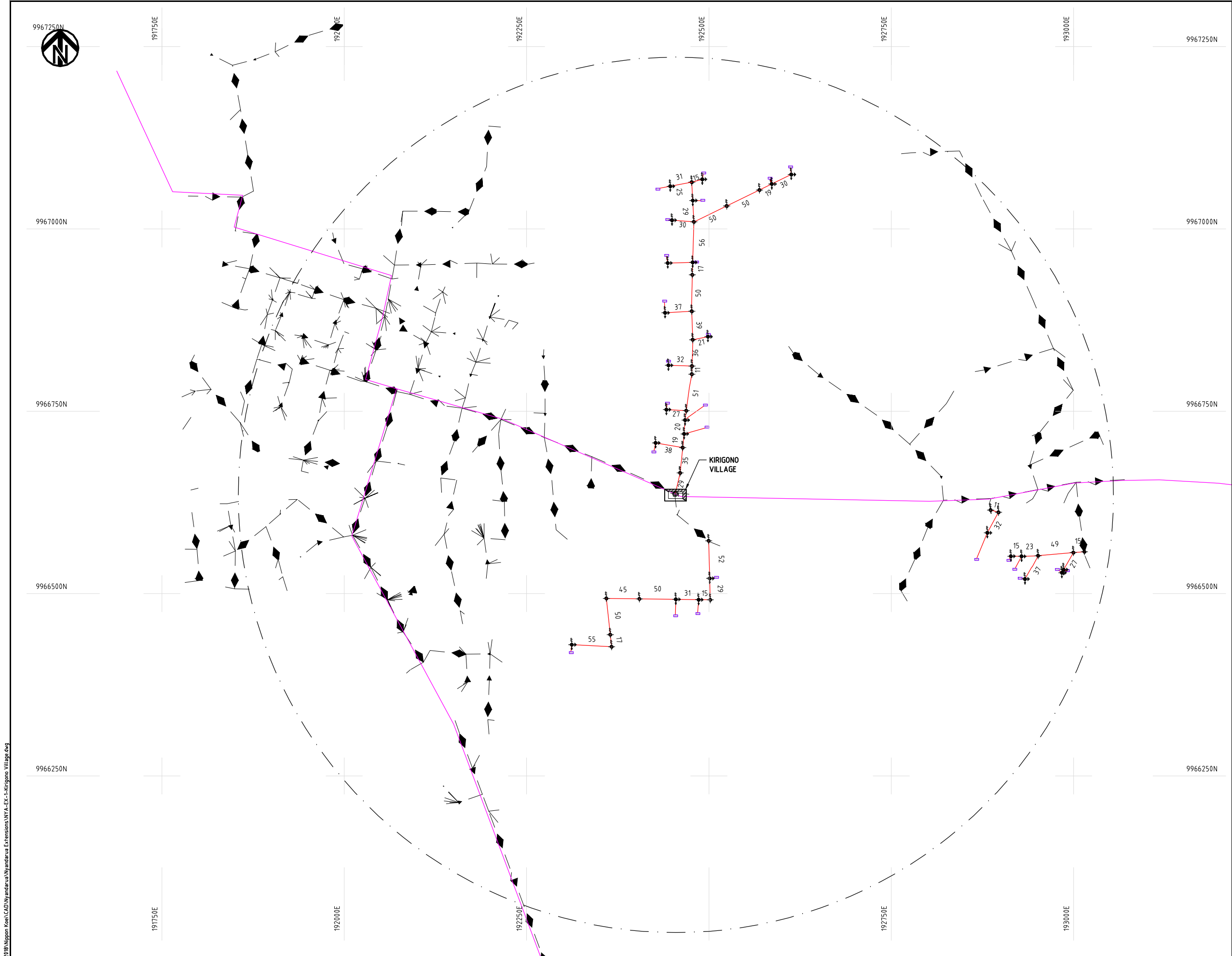


NIPPON KOEI CO., LTD

ニャンダルア郡

Extension and Maximization

Cad File No. D:\Frank-Proj\2018\Nippon Koei\CAD\Nyandarua Extensions\NYA-EX-1-Kirigono Village.dwg



NOTES:

1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.

LEGEND

- HOUSEHOLDS/ BUILDINGS
- PROPOSED 11kV
- PROPOSED 33kV
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- PP WOODEN ELECTRIC POLES
- CP CONCRETE ELECTRIC POLES 12M
- CP CONCRETE ELECTRIC POLES 11M
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING
- STAY

SCALE 1:5000 (A3)

PROJECT:

THE PREPARATORY SURVEY
ON THE PROJECT FOR IMPROVEMENT
OF POWER DISTRIBUTION SYSTEM
IN THE REPUBLIC OF KENYA

DRAWING TITLE

COUNTY: NYANDARUA
SCHEME: EXTENSION
PROJECT SITE: Kirigono Village

DRAW. NO.

NYA-EX-1

PREPARED BY

A.AKBAR

CHECKED BY

S.MAETA

APPROVED BY

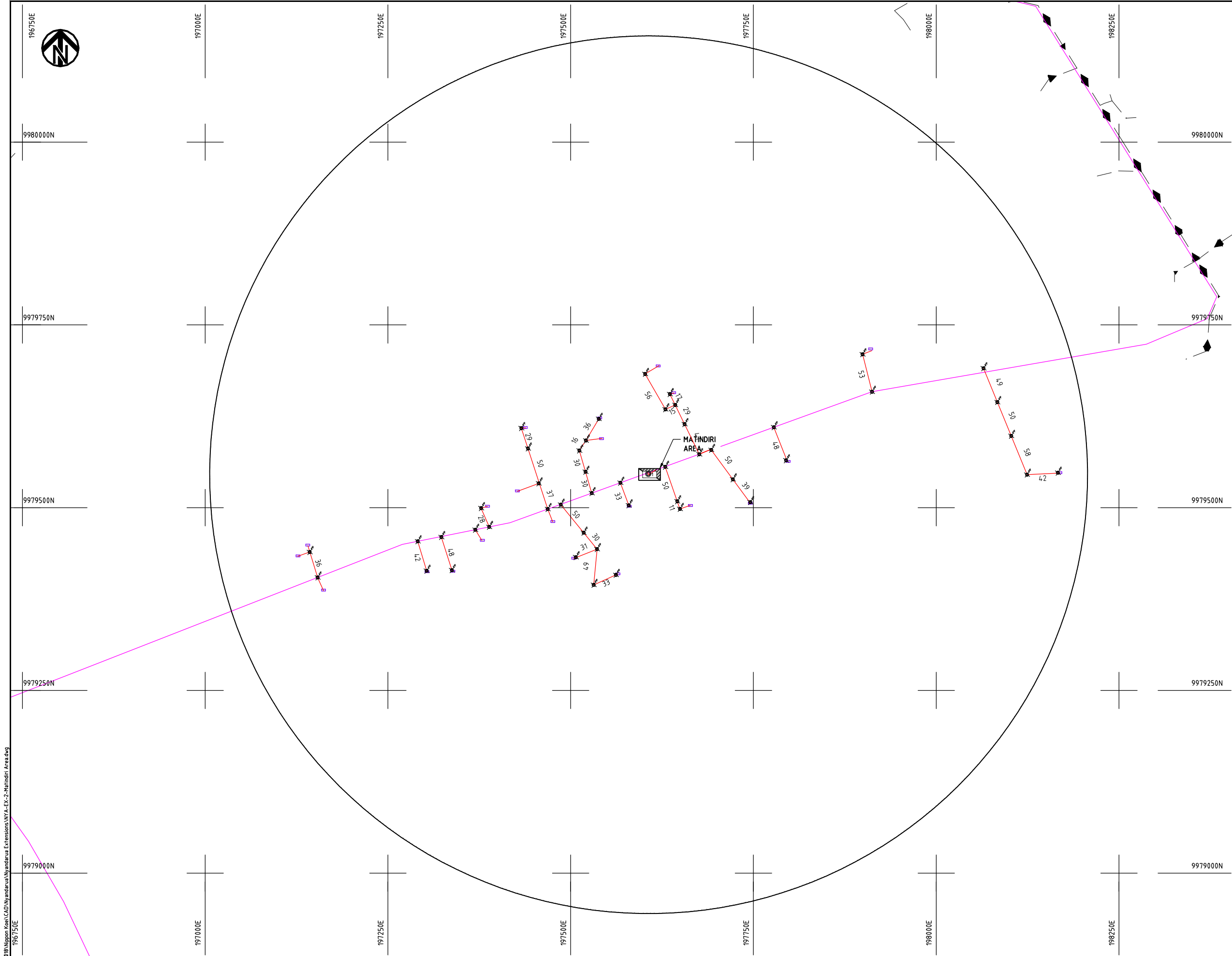
Y.TANAKA

DATE

10th SEP 2018



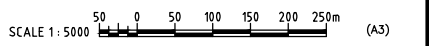
NIPPON KOEI CO., LTD



- NOTES:**
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.

LEGEND

- HOUSEHOLDS/ BUILDINGS
- PROPOSED 11kV
- PROPOSED 33kV
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- PP WOODEN ELECTRIC POLES
- CP CONCRETE ELECTRIC POLES 12M
- CP CONCRETE ELECTRIC POLES 11M
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING
- STAY

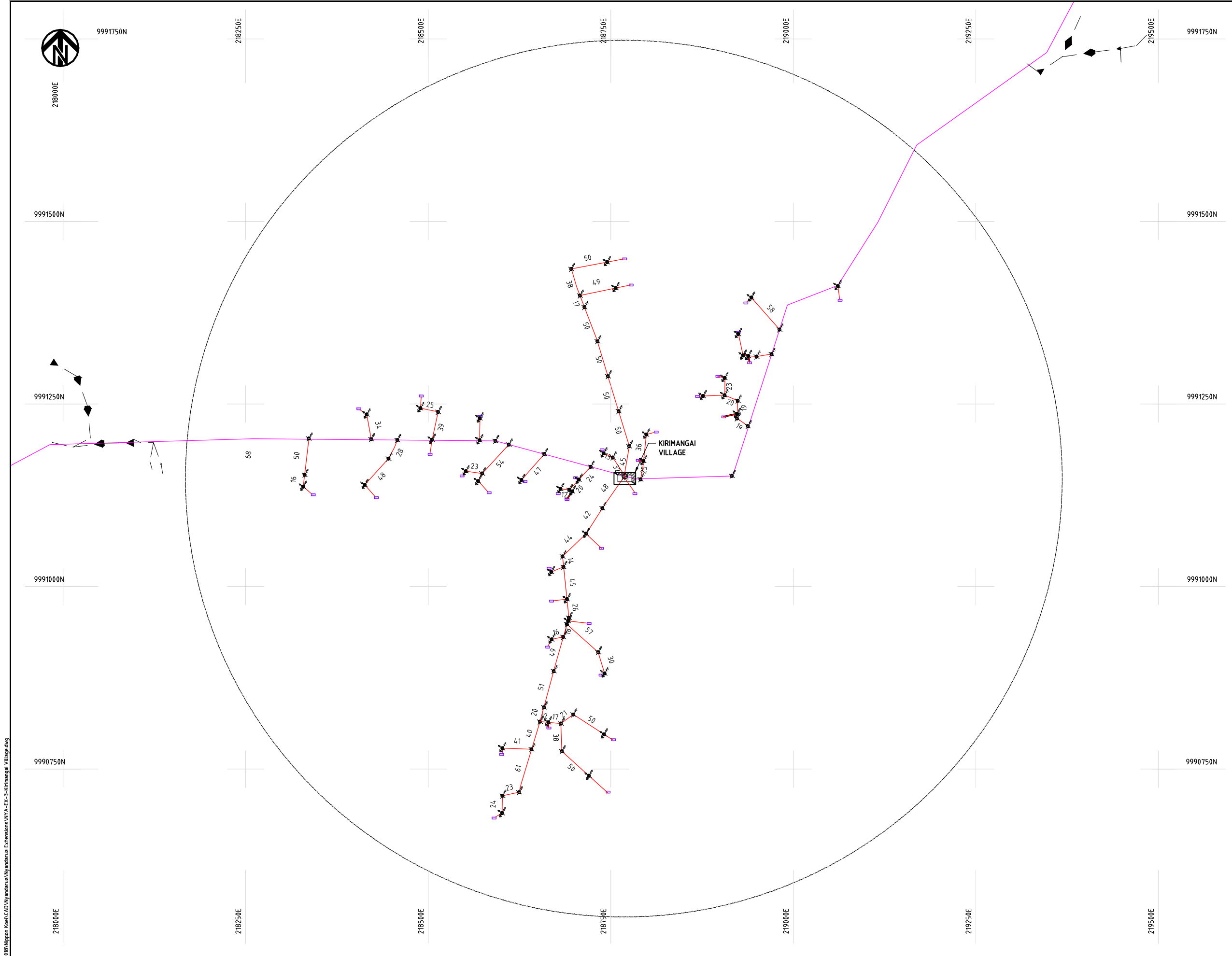


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	PROJECT: THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA	DRAWING TITLE		DRAW. NO.	PREPARED BY	A.AKBAR	
		COUNTY: NYANDARUA SCHEME: EXTENSION PROJECT SITE: MATINDIRI		NYA-EX-2	CHECKED BY	S.MAETA	
					APPROVED BY	Y.TANAKA	
					DATE		10th SEP 2018



Cad File No. D:\Frank-Proj\2018\Nippon Koei\CAD\Nyandarua\Nyandarua Extensions\NYA-EX-3-Kirimangai Village.dwg



NOTES:

1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.

LEGEND

- HOUSEHOLDS/ BUILDINGS
- PROPOSED 11kV
- PROPOSED 33kV
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- PP WOODEN ELECTRIC POLES
- CP CONCRETE ELECTRIC POLES 12M
- CP CONCRETE ELECTRIC POLES 11M
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING
- STAY

SCALE 1:5000 (A3)

PROJECT:

THE PREPARATORY SURVEY
ON THE PROJECT FOR IMPROVEMENT
OF POWER DISTRIBUTION SYSTEM
IN THE REPUBLIC OF KENYA

DRAWING TITLE

COUNTY: NYANDARUA
SCHEME: EXTENSION
PROJECT SITE: Kirimangai Village

DRAW. NO.

NYA-EX-3

PREPARED BY

A.AKBAR

CHECKED BY

S.MAETA

APPROVED BY

Y.TANAKA

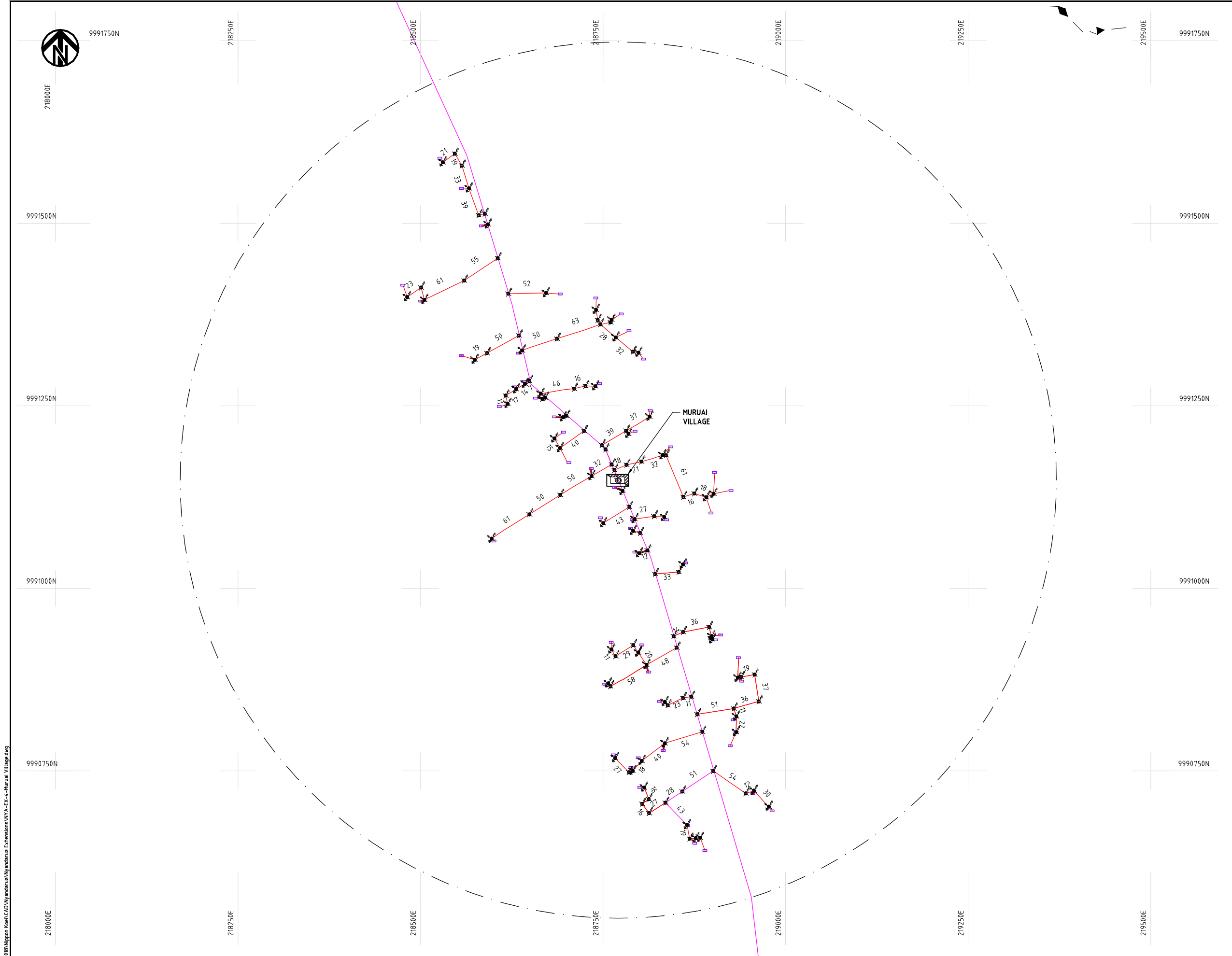
DATE

10th SEP 2018



NIPPON KOEI CO., LTD

Cad File No. D:\Frank-Proj\2018\Nippon Koei\CAD\Nyandarua Extensions\NYA-EX-4-Muruai Village.dwg



NOTES:

1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.

LEGEND

- HOUSEHOLDS/ BUILDINGS
- PROPOSED 11kV
- PROPOSED 33kV
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES 12M
- CONCRETE ELECTRIC POLES 11M
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING
- STAY

SCALE 1:5000 (A3)

PROJECT:

THE PREPARATORY SURVEY
ON THE PROJECT FOR IMPROVEMENT
OF POWER DISTRIBUTION SYSTEM
IN THE REPUBLIC OF KENYA

DRAWING TITLE

COUNTY: NYANDARUA
SCHEME: EXTENSION
PROJECT SITE: Muruai Village

DRAW. NO.

NYA-EX-4

PREPARED BY

A.AKBAR

CHECKED BY

S.MAETA

APPROVED BY

Y.TANAKA

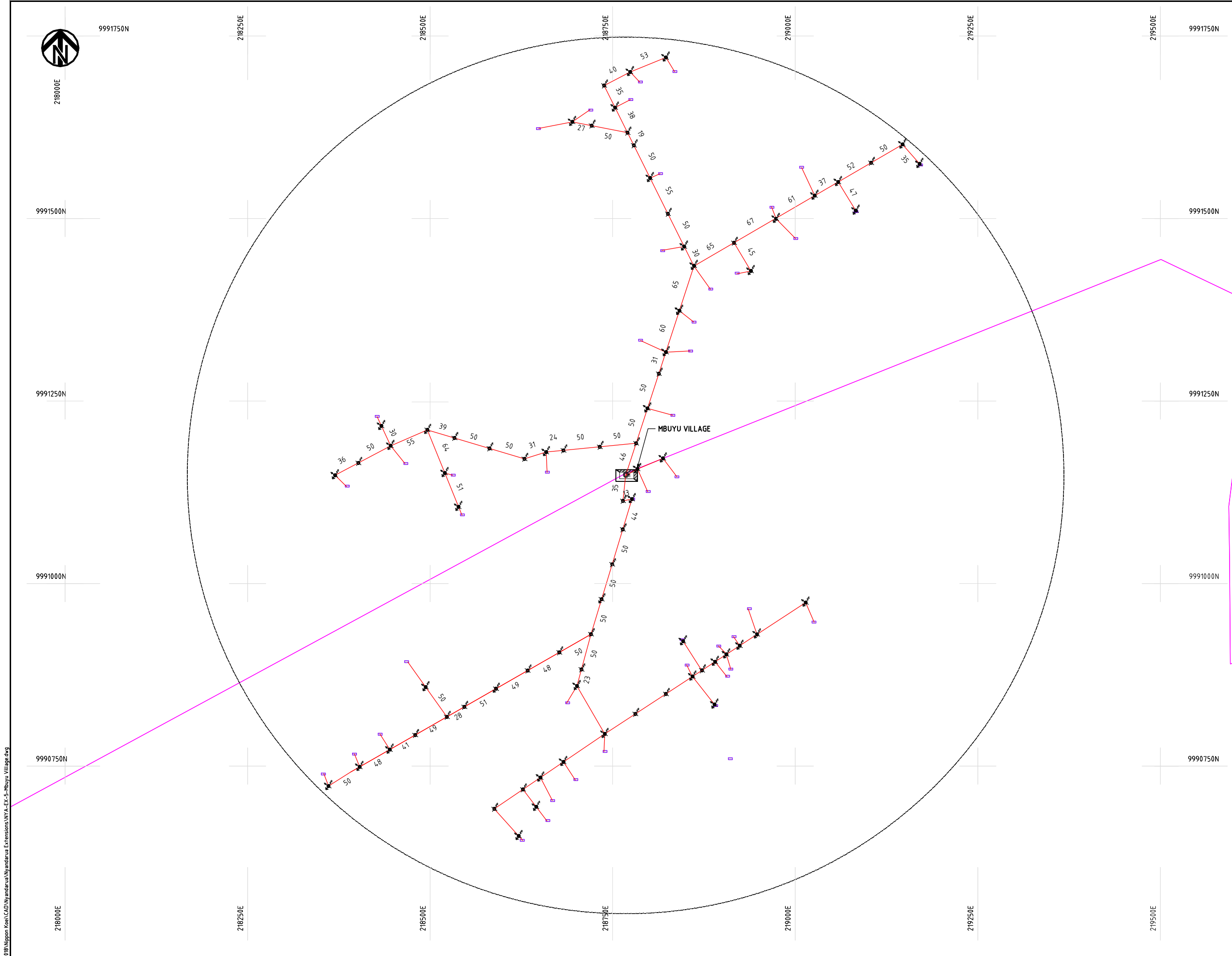
DATE

10th SEP 2018



NIPPON KOEI CO., LTD

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NOTES:

1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.

LEGEND

- HOUSEHOLDS/ BUILDINGS
- PROPOSED 11kV
- PROPOSED 33kV
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES 12M
- CONCRETE ELECTRIC POLES 11M
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING
- STAY

SCALE 1:5000 (A3)

PROJECT:

THE PREPARATORY SURVEY
ON THE PROJECT FOR IMPROVEMENT
OF POWER DISTRIBUTION SYSTEM
IN THE REPUBLIC OF KENYA

DRAWING TITLE

COUNTY: NYANDARUA
SCHEME: EXTENSION
PROJECT SITE: Mbuyu Vilage

DRAW. NO.

NYA-EX-5

PREPARED BY

A.AKBAR

CHECKED BY

S.MAETA

APPROVED BY

Y.TANAKA

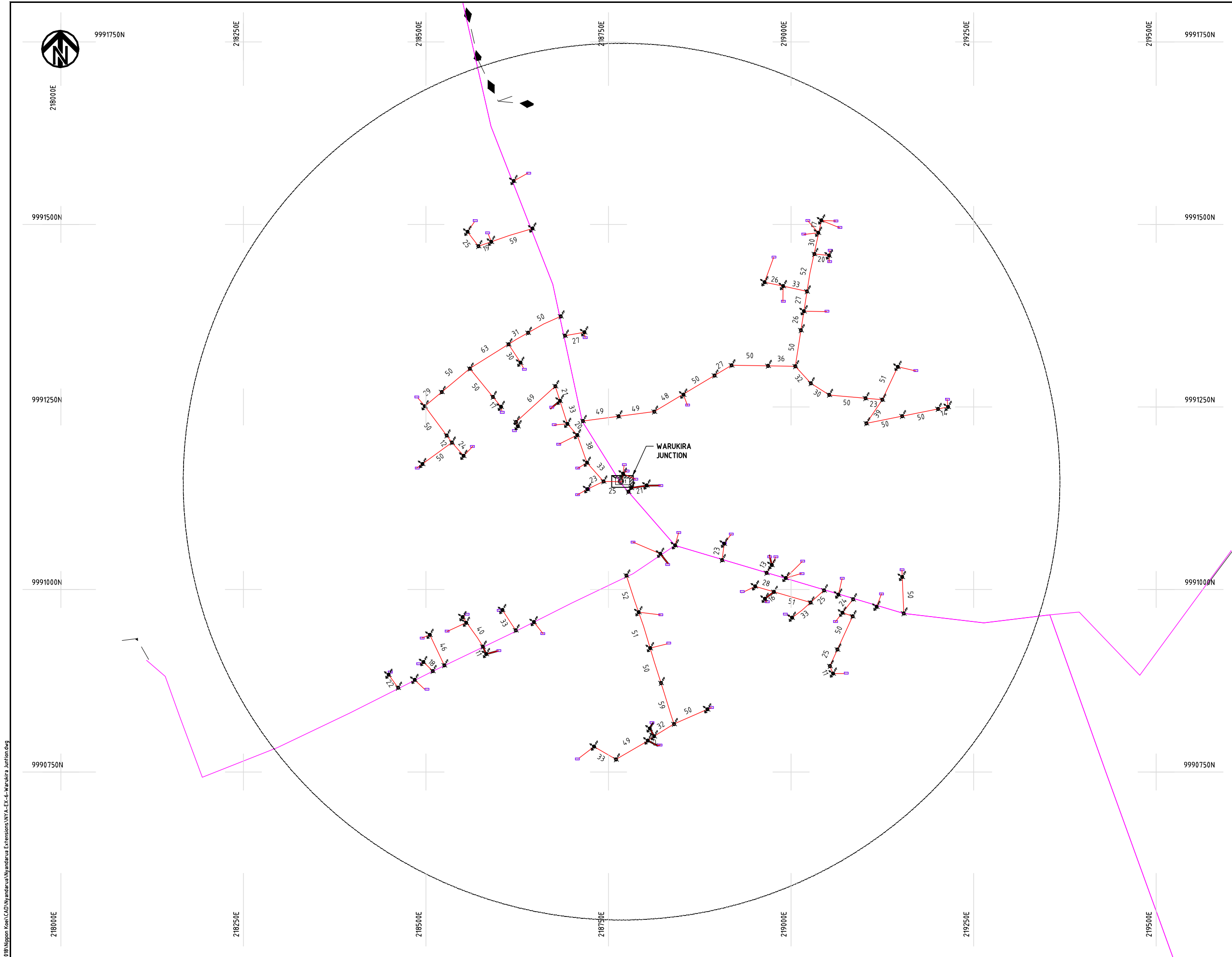
DATE

10th SEP 2018



NIPPON KOEI CO., LTD

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NOTES:

1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.

LEGEND

- HOUSEHOLDS/ BUILDINGS
- PROPOSED 11kV
- PROPOSED 33kV
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- PP WOODEN ELECTRIC POLES
- CP CONCRETE ELECTRIC POLES 12M
- CP CONCRETE ELECTRIC POLES 11M
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING
- STAY

SCALE 1:5000 (A3)

PROJECT:

THE PREPARATORY SURVEY
ON THE PROJECT FOR IMPROVEMENT
OF POWER DISTRIBUTION SYSTEM
IN THE REPUBLIC OF KENYA

DRAWING TITLE

COUNTY: NYANDARUA
SCHEME: EXTENSION
PROJECT SITE: Warukira Junction

DRAW. NO.

NYA-EX-6

PREPARED BY

A.AKBAR

CHECKED BY

S.MAETA

APPROVED BY

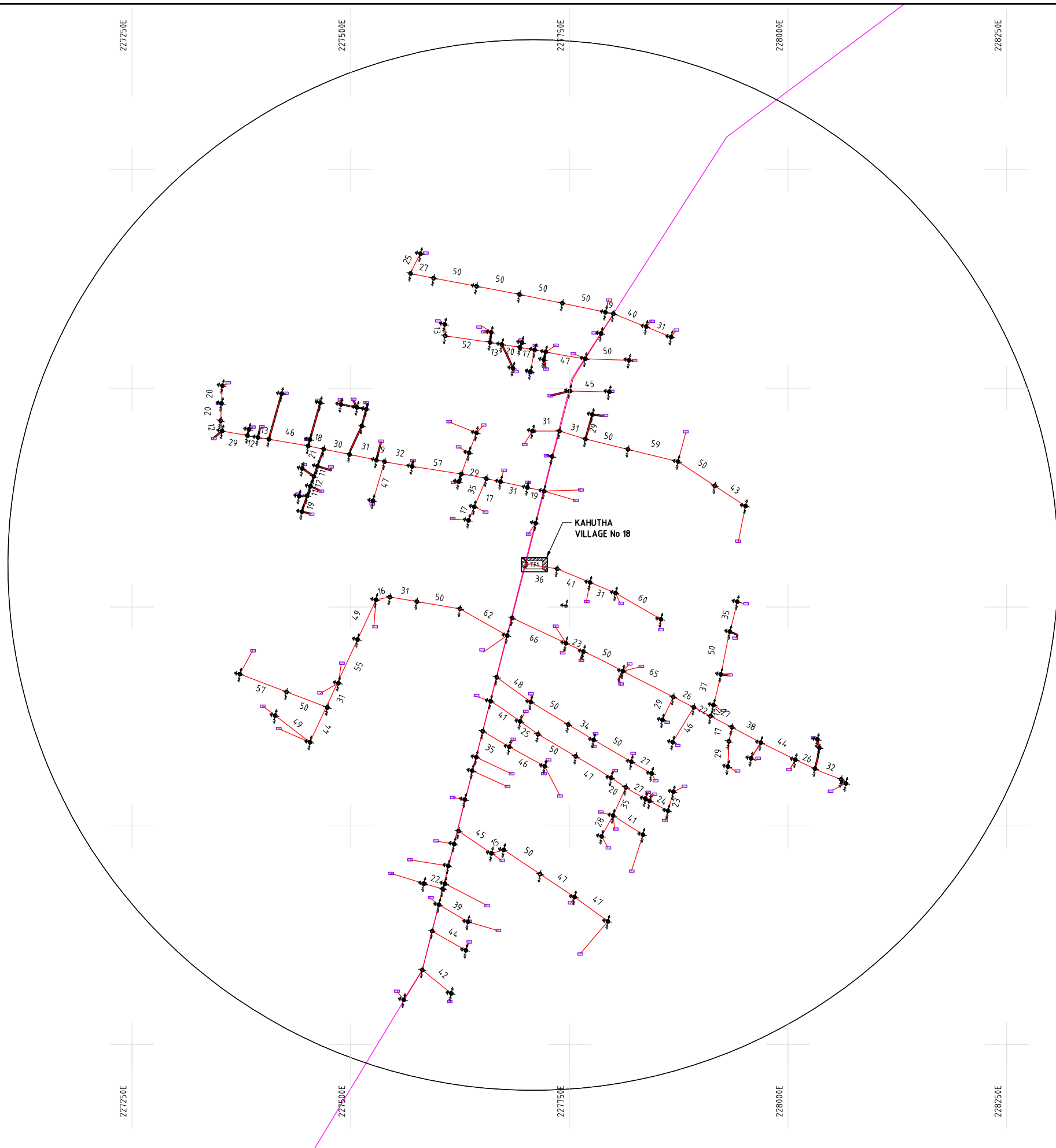
Y.TANAKA

DATE

10th SEP 2018



NIPPON KOEI CO., LTD



NOTES:

1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.

LEGEND

- HOUSEHOLDS/ BUILDINGS
- PROPOSED 11kV
- PROPOSED 33kV
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- PP WOODEN ELECTRIC POLES
- CP CONCRETE ELECTRIC POLES 12M
- CP CONCRETE ELECTRIC POLES 11M
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING
- STAY

SCALE 1:5000 (A3)

PROJECT:

THE PREPARATORY SURVEY
ON THE PROJECT FOR IMPROVEMENT
OF POWER DISTRIBUTION SYSTEM
IN THE REPUBLIC OF KENYA

DRAWING TITLE

COUNTY: NYANDARUA
SCHEME: EXTENSION
PROJECT SITE: Kahutha Village No 18

DRAW. NO.

NYA-EX-8

PREPARED BY

A.AKBAR

CHECKED BY

S.MAETA

APPROVED BY

Y.TANAKA

DATE

10th SEP 2018



NIPPON KOEI CO., LTD



9985000N

9984750N

9984500N

9984250N

9984000N

199500E

199750E

200000E

200250E

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199750E

200000E

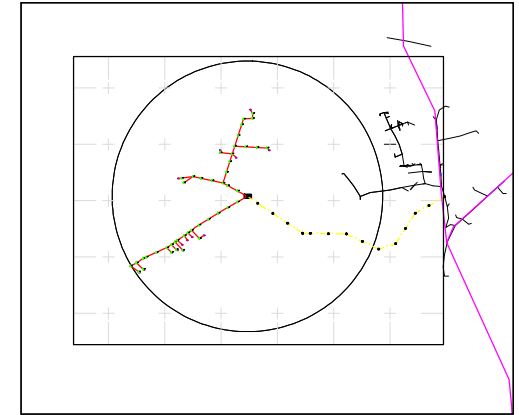
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200500E

200750E

NOTES:

1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
2. CONCRETE / WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.



KEY PLAN

LEGEND

- HOUSEHOLDS/ BUILDINGS
- PROPOSED 11kV
- PROPOSED 33kV
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- WOODEN ELECTRIC POLES
- CP CONCRETE ELECTRIC POLES 12M
- CP CONCRETE ELECTRIC POLES 11M
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING
- STAY

SCALE 1:5000 (A3)

PROJECT:

THE PREPARATORY SURVEY
ON THE PROJECT FOR IMPROVEMENT
OF POWER DISTRIBUTION SYSTEM
IN THE REPUBLIC OF KENYA

DRAWING TITLE

COUNTY: NYANDARUA
SCHEME: EXTENSION
PROJECT SITE: Fredrick Karanja S/L 85258

DRAW. NO.

NYA-EX-9

PREPARED BY

A.AKBAR

CHECKED BY

S.MAETA

APPROVED BY

Y.TANAKA

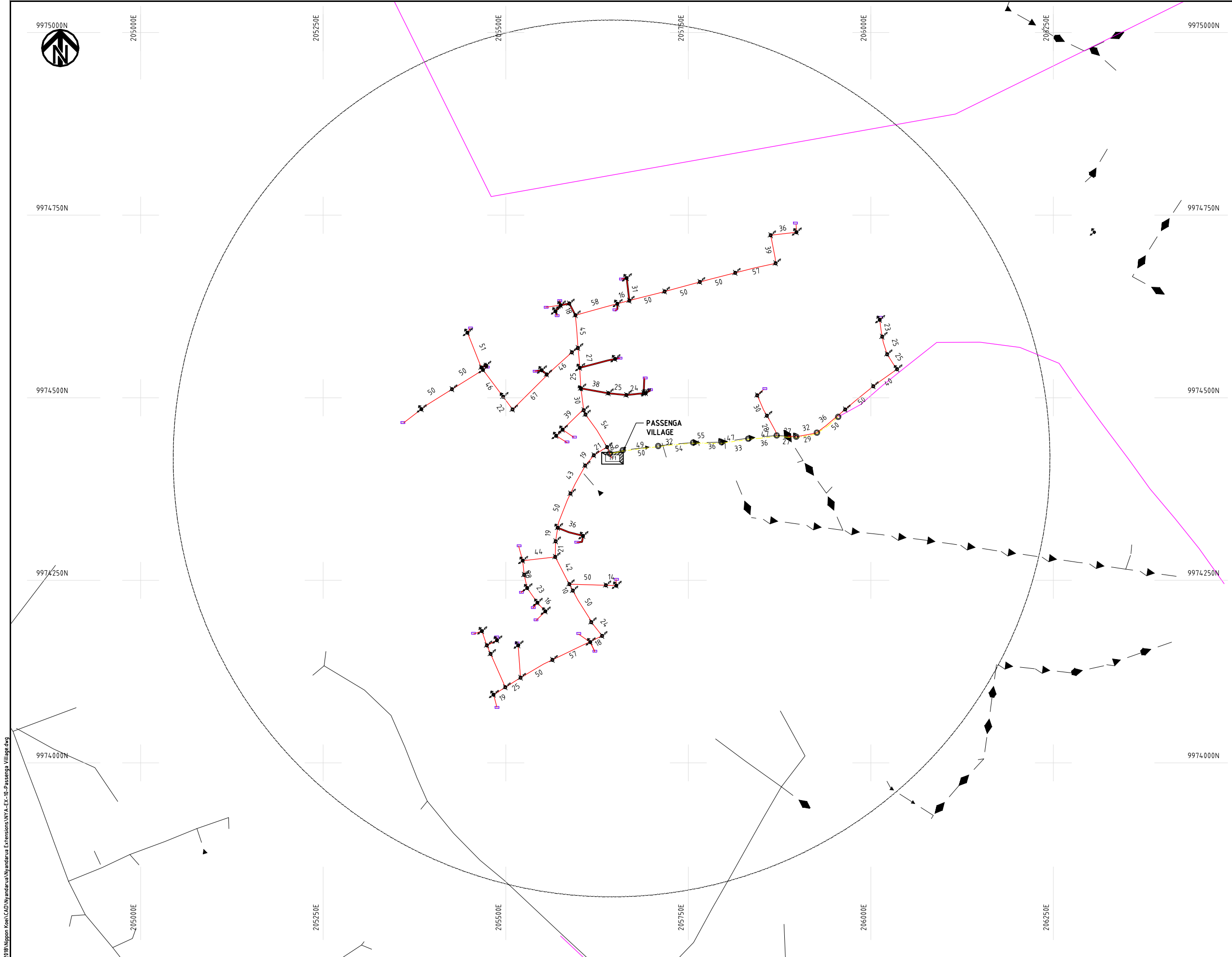
DATE

10th SEP 2018



NIPPON KOEI CO., LTD

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NOTES:

1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
2. CONCRETE / WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.

LEGEND

- HOUSEHOLDS/ BUILDINGS
- PROPOSED 11kV
- PROPOSED 33kV
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- PP WOODEN ELECTRIC POLES
- CP CONCRETE ELECTRIC POLES 12M
- CP CONCRETE ELECTRIC POLES 11M
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING
- STAY

SCALE 1:5000 (A3)

PROJECT:

THE PREPARATORY SURVEY
ON THE PROJECT FOR IMPROVEMENT
OF POWER DISTRIBUTION SYSTEM
IN THE REPUBLIC OF KENYA

DRAWING TITLE

COUNTY: NYANDARUA
SCHEME: EXTENSION
PROJECT SITE: Passenga Village

DRAW. NO.

NYA-EX-10

PREPARED BY

A.AKBAR

CHECKED BY

S.MAETA

APPROVED BY

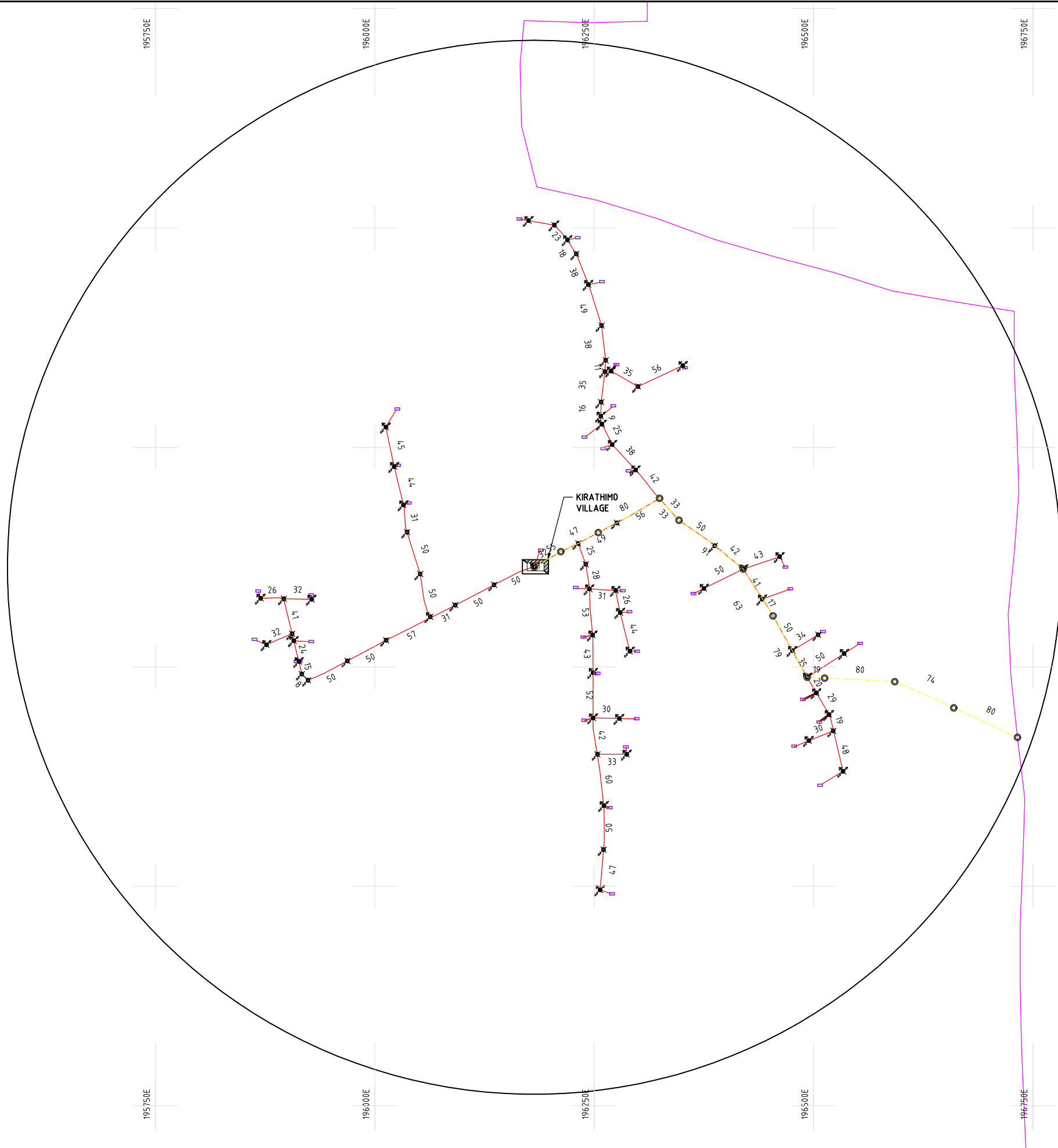
Y.TANAKA

DATE

10th SEP 2018



NIPPON KOEI CO., LTD



NOTES:

1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.

LEGEND

- HOUSEHOLDS/ BUILDINGS
- PROPOSED 11kV
- PROPOSED 33kV
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- PP WOODEN ELECTRIC POLES
- CP CONCRETE ELECTRIC POLES 12M
- CP CONCRETE ELECTRIC POLES 11M
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING
- STAY

SCALE 1:5000 (A3)

PROJECT:

THE PREPARATORY SURVEY
ON THE PROJECT FOR IMPROVEMENT
OF POWER DISTRIBUTION SYSTEM
IN THE REPUBLIC OF KENYA

DRAWING TITLE

COUNTY: NYANDARUA
SCHEME: EXTENSION
PROJECT SITE: Karathimo Village

DRAW. NO.

NYA-EX-11

PREPARED BY

A.AKBAR

CHECKED BY

S.MAETA

APPROVED BY

Y.TANAKA

DATE

10th SEP 2018



NIPPON KOEI CO., LTD



198250E

198500E

198750E

199000E

199250E

199500E

9968750N

9968500N

9968250N

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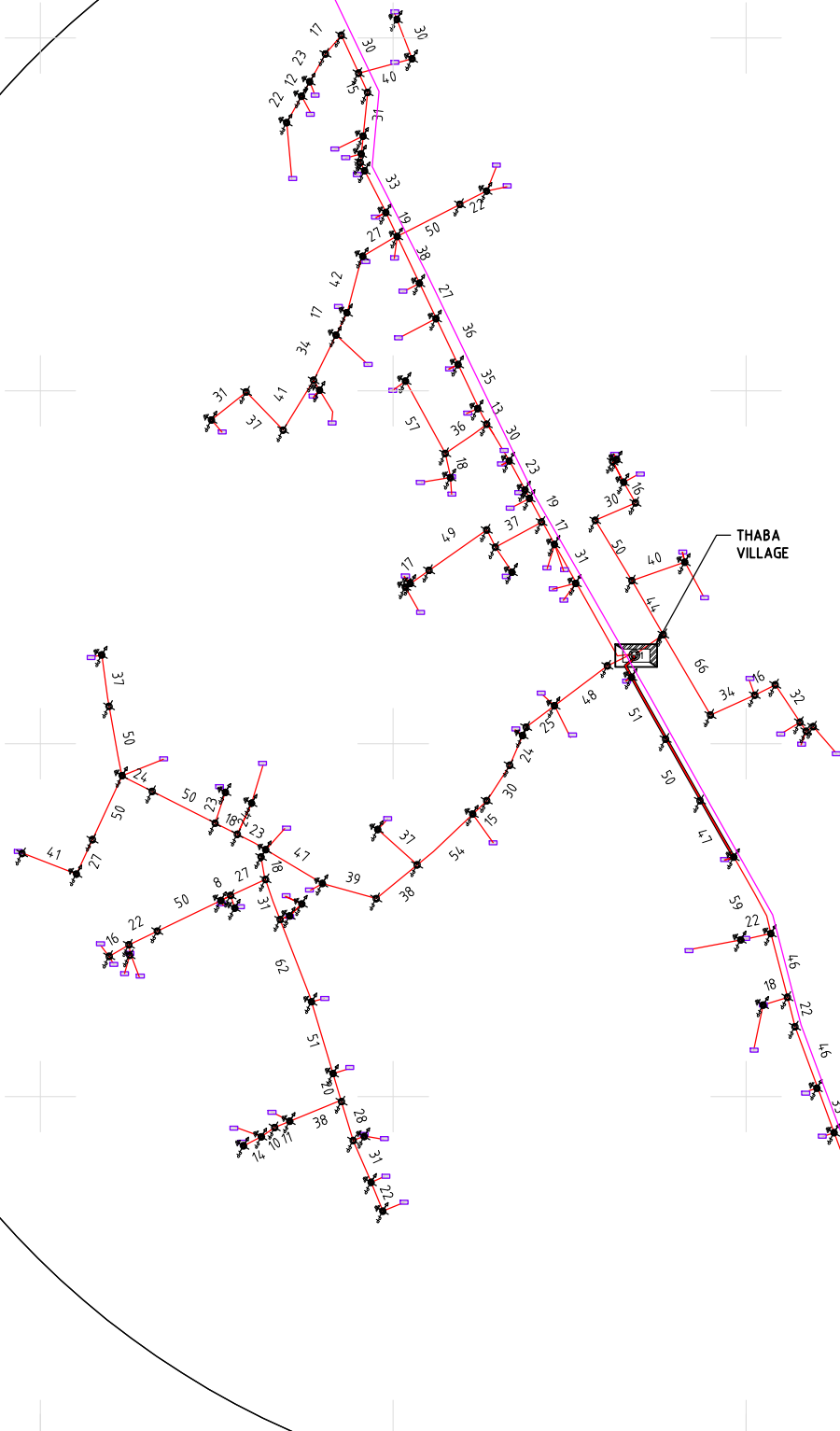
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9968250N

9968000N

9967750N

**NOTES:**

1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.

LEGEND

- HOUSEHOLDS/ BUILDINGS
- PROPOSED 11kV
- PROPOSED 33kV
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- PP WOODEN ELECTRIC POLES
- CP CONCRETE ELECTRIC POLES 12M
- CP CONCRETE ELECTRIC POLES 11M
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING
- STAY

SCALE 1:5000 (A3)

PROJECT:

THE PREPARATORY SURVEY
ON THE PROJECT FOR IMPROVEMENT
OF POWER DISTRIBUTION SYSTEM
IN THE REPUBLIC OF KENYA

DRAWING TITLE

COUNTY: NYANDARUA
SCHEME: EXTENSION
PROJECT SITE: Thaba Village

DRAW. NO.

NYA-EX-12

PREPARED BY

A.AKBAR

CHECKED BY

S.MAETA

APPROVED BY

Y.TANAKA

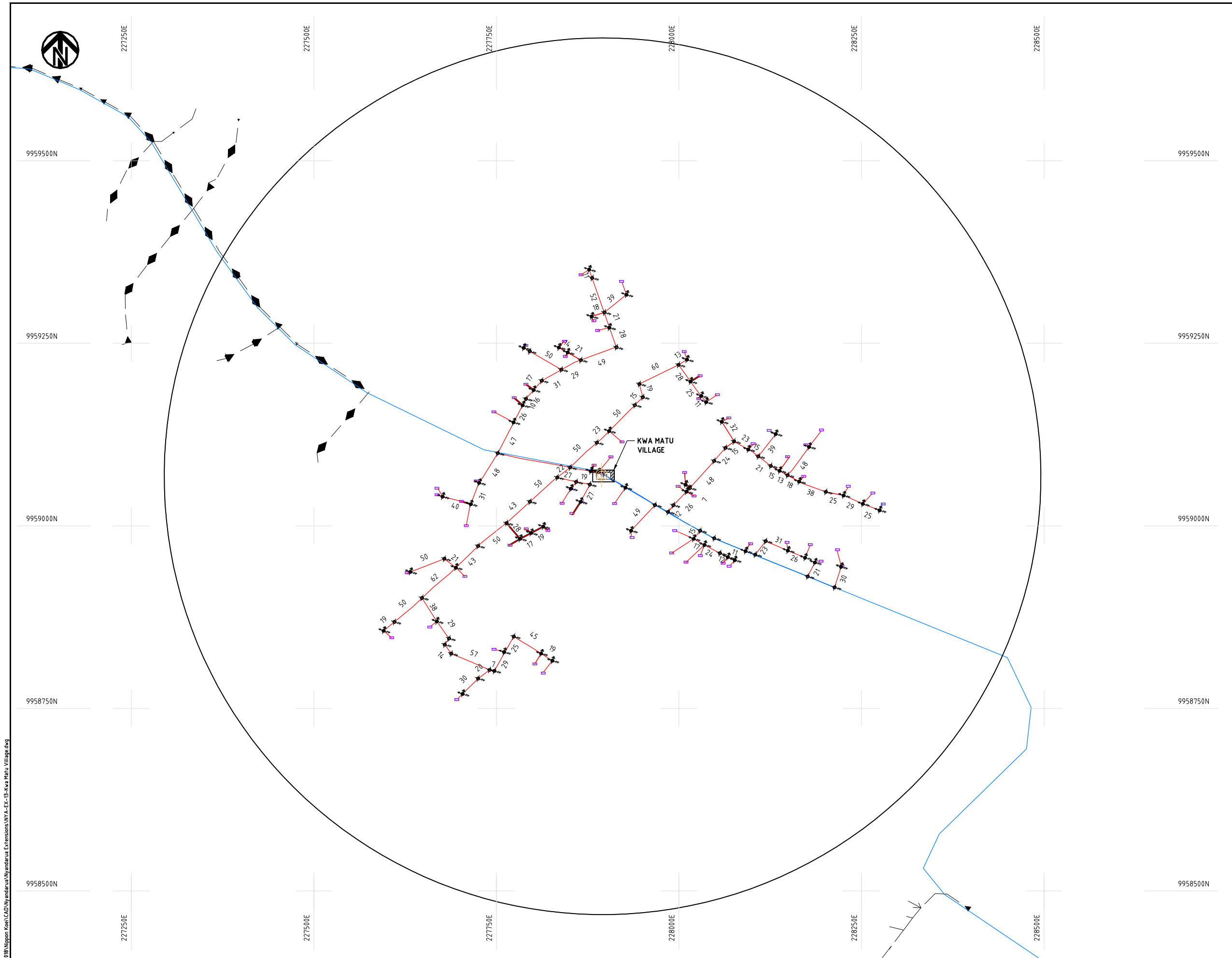
DATE

10th SEP 2018



NIPPON KOEI CO., LTD

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NOTES:

1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.

LEGEND

- HOUSEHOLDS/ BUILDINGS
- PROPOSED 11kV
- PROPOSED 33kV
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES 12M
- CONCRETE ELECTRIC POLES 11M
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING
- STAY

SCALE 1:5000 50 0 50 100 150 200 250m (A3)

PROJECT:

THE PREPARATORY SURVEY
ON THE PROJECT FOR IMPROVEMENT
OF POWER DISTRIBUTION SYSTEM
IN THE REPUBLIC OF KENYA

DRAWING TITLE

COUNTY: NYANDARUA
SCHEME: EXTENSION
PROJECT SITE: Kwa Matu Village

DRAW. NO.

NYA-EX-13

PREPARED BY

A.AKBAR

CHECKED BY

S.MAETA

APPROVED BY

Y.TANAKA

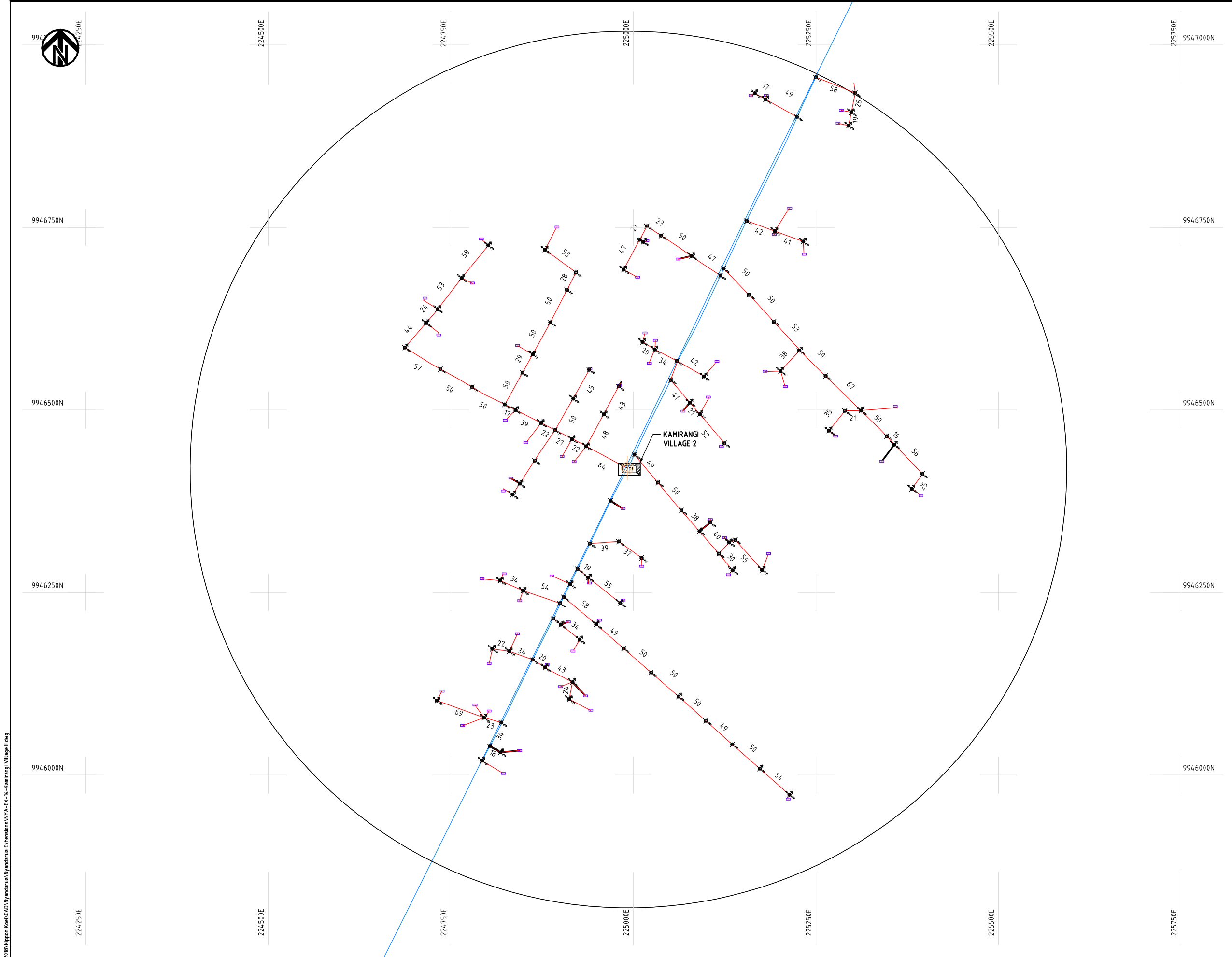
DATE

10th SEP 2018



NIPPON KOEI CO., LTD

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NOTES:

1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
2. CONCRETE / WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.

LEGEND

- HOUSEHOLDS/ BUILDINGS
- PROPOSED 11kV
- PROPOSED 33kV
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- PP WOODEN ELECTRIC POLES
- CP CONCRETE ELECTRIC POLES 12M
- CP CONCRETE ELECTRIC POLES 11M
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING
- STAY

SCALE 1:5000 (A3)

PROJECT:

THE PREPARATORY SURVEY
ON THE PROJECT FOR IMPROVEMENT
OF POWER DISTRIBUTION SYSTEM
IN THE REPUBLIC OF KENYA

DRAWING TITLE

COUNTY: NYANDARUA
SCHEME: EXTENSION
PROJECT SITE: Kimirangi Village 2

DRAW. NO.

NYA-EX-14

PREPARED BY

A.AKBAR

CHECKED BY

S.MAETA

APPROVED BY

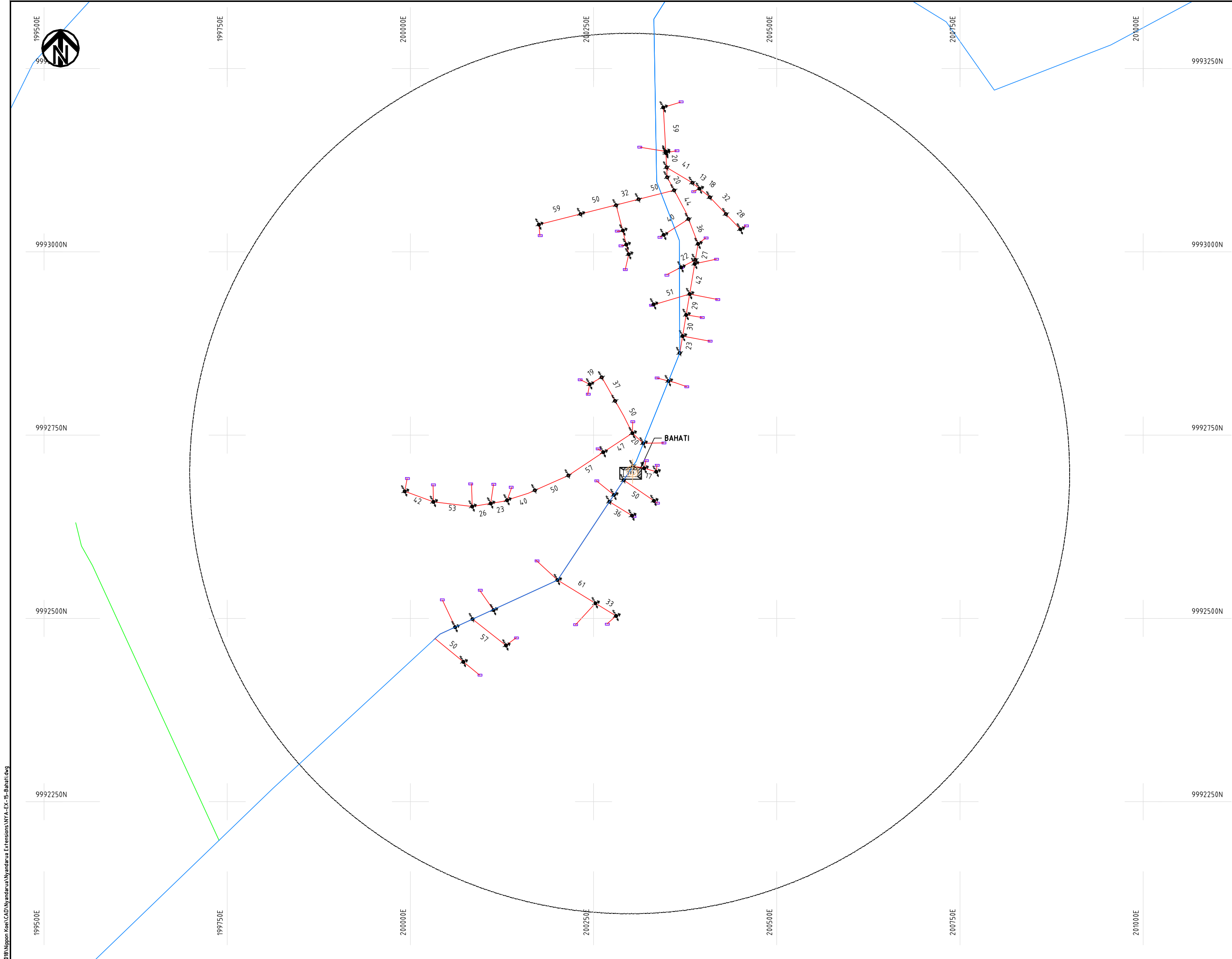
Y.TANAKA

DATE

10th SEP 2018



NIPPON KOEI CO., LTD



- NOTES:**
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.

- LEGEND**
- HOUSEHOLDS/ BUILDINGS
 - PROPOSED 11kV
 - PROPOSED 33kV
 - PROPOSED DISTRIBUTION LINE
 - EXISTING 11kV LINE
 - EXISTING 33kV LINE
 - EXISTING DISTRIBUTION LINE
 - MAXIMISATION TRANSFORMER
 - EXTENSION TRANSFORMER
 - WOODEN ELECTRIC POLES
 - CONCRETE ELECTRIC POLES 12M
 - CONCRETE ELECTRIC POLES 11M
 - LV-EARTH
 - PME -PROTECTIVE MULTIPLE EARTHING
 - STAY

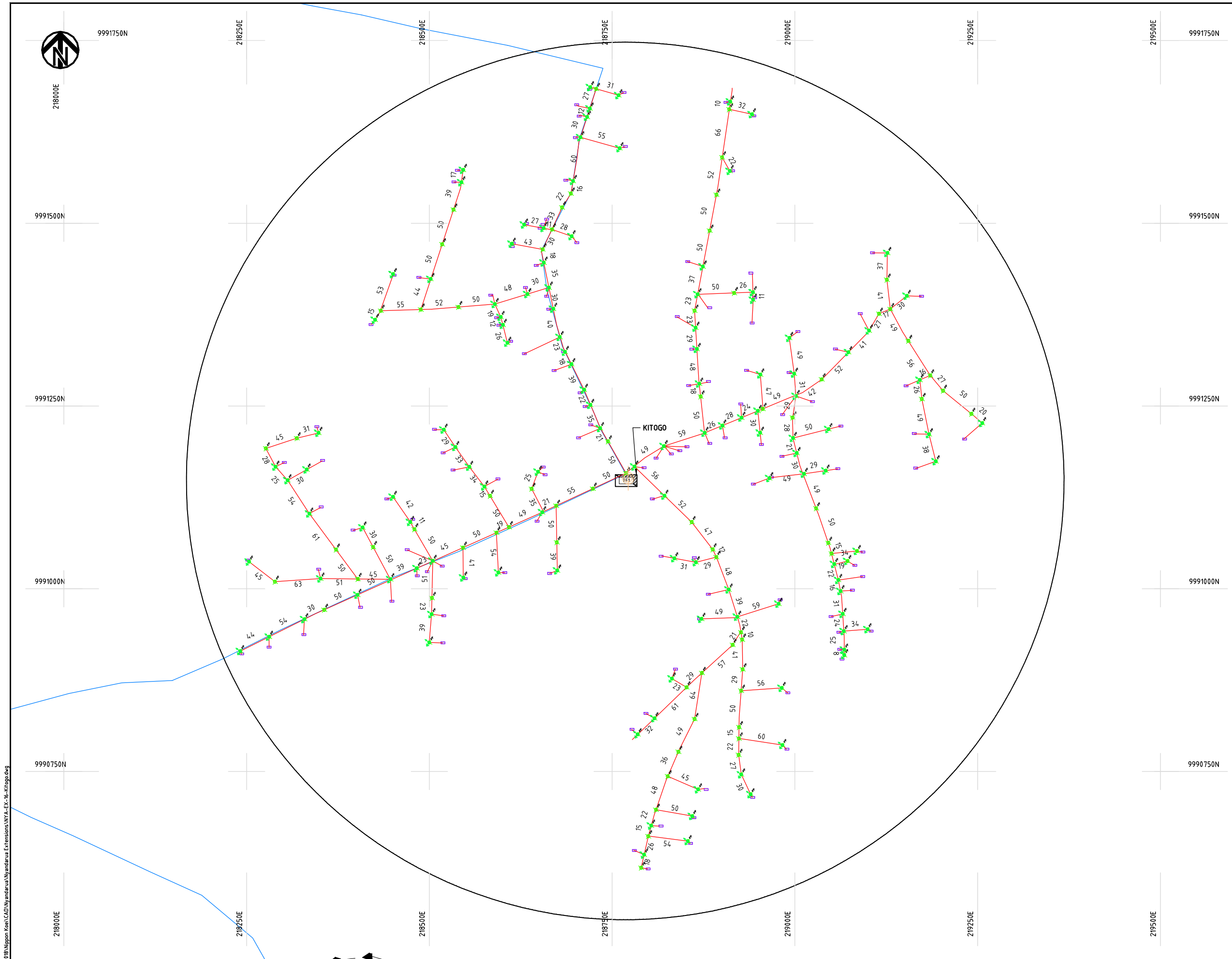
SCALE 1:5000 (A3)

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PROJECT: THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA	DRAWING TITLE		DRAW. NO.	PREPARED BY	A.AKBAR
	COUNTY:	NYANDARUA	NYA-EX-15	CHECKED BY	S.MAETA
	SCHEME:	EXTENSION		APPROVED BY	Y.TANAKA
	PROJECT SITE:	Bahati		DATE	10th SEP 2018



Cad File No. D:\Frank-Proj\2018\Nippon Koei\CAD\Nyandarua Extensions\NYA-EX-16-Kitogo.dwg



NOTES:

1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
2. CONCRETE / WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.

LEGEND

- HOUSEHOLDS/ BUILDINGS
- PROPOSED 11kV
- PROPOSED 33kV
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- PP WOODEN ELECTRIC POLES
- CP CONCRETE ELECTRIC POLES 12M
- CP CONCRETE ELECTRIC POLES 11M
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING
- STAY

SCALE 1:5000 (A3)

PROJECT:

THE PREPARATORY SURVEY
ON THE PROJECT FOR IMPROVEMENT
OF POWER DISTRIBUTION SYSTEM
IN THE REPUBLIC OF KENYA

DRAWING TITLE

COUNTY: NYANDARUA
SCHEME: EXTENSION
PROJECT SITE: Kitogo

DRAW. NO.

NYA-EX-16

PREPARED BY

A.AKBAR

CHECKED BY

S.MAETA

APPROVED BY

Y.TANAKA

DATE

10th SEP 2018



NIPPON KOEI CO., LTD

Cad File No. D:\Frank-Proj\2018\Nippon Koei\CAD\Nyandarua\Nyandarua Extensions\NYA-EX-T1-Nyakio Village.dwg



9991750N

218000E

9991500N

9991250N

9991000N

9990750N

218250E

218500E

218750E

219000E

219250E

219500E

9991750N

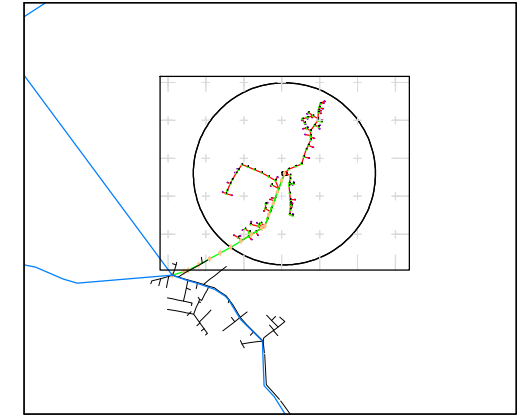
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NOTES:

1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.



KEY PLAN

LEGEND

- HOUSEHOLDS/ BUILDINGS
- PROPOSED 11kV
- PROPOSED 33kV
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- PP WOODEN ELECTRIC POLES
- CP CONCRETE ELECTRIC POLES 12M
- CP CONCRETE ELECTRIC POLES 11M
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING
- STAY

SCALE 1:5000 (A3)

PROJECT:

THE PREPARATORY SURVEY
ON THE PROJECT FOR IMPROVEMENT
OF POWER DISTRIBUTION SYSTEM
IN THE REPUBLIC OF KENYA

DRAWING TITLE

COUNTY: NYANDARUA
SCHEME: EXTENSION
PROJECT SITE: Nyakio Village

DRAW. NO.

NYA-EX-17

PREPARED BY

A.AKBAR

CHECKED BY

S.MAETA

APPROVED BY

Y.TANAKA

DATE

10th SEP 2018



NIPPON KOEI CO., LTD

Cad File No. D:\Frank-Proj\2018\Nippon Koei\CAD\Nyandarua Extensions\NYA-EX-18-Charagita.dwg



9991750N

218000E

9991500N

9991250N

9991000N

9990750N

218000E

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219000E

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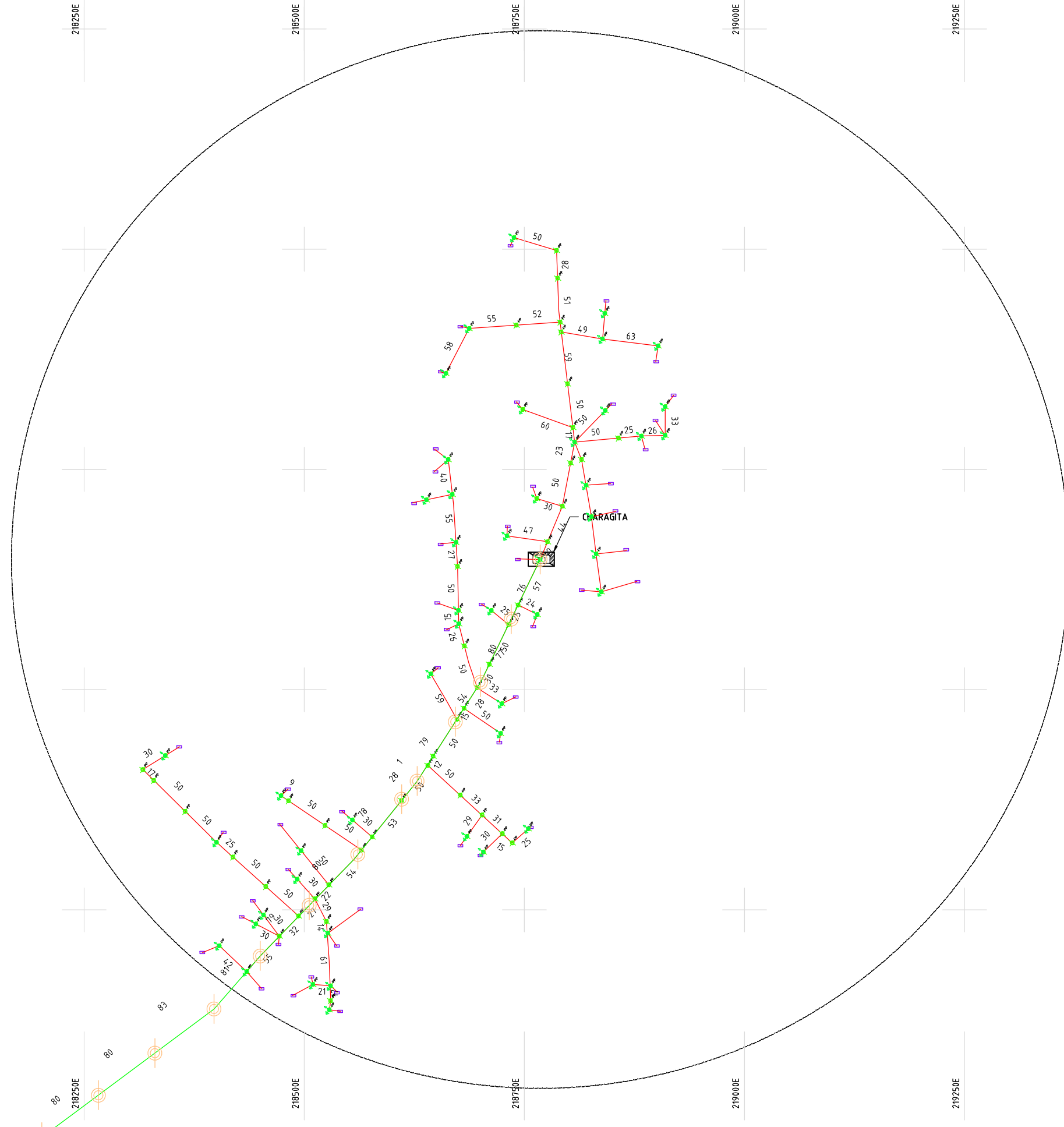
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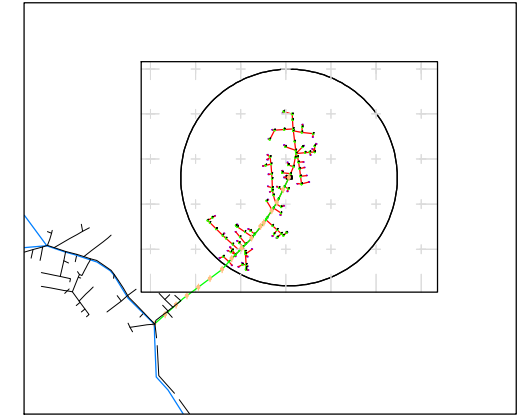
9990750N

219500E



NOTES:

1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.



KEY PLAN

LEGEND

- HOUSEHOLDS/ BUILDINGS
- PROPOSED 11kV
- PROPOSED 33kV
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- PP WOODEN ELECTRIC POLES
- CP CONCRETE ELECTRIC POLES 12M
- CP CONCRETE ELECTRIC POLES 11M
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING
- STAY

SCALE 1:5000 (A3)

PROJECT:

THE PREPARATORY SURVEY
ON THE PROJECT FOR IMPROVEMENT
OF POWER DISTRIBUTION SYSTEM
IN THE REPUBLIC OF KENYA

DRAWING TITLE

COUNTY: NYANDARUA
SCHEME: EXTENSION
PROJECT SITE: Charagita

DRAW. NO.

NYA-EX-18

PREPARED BY

A.AKBAR

CHECKED BY

S.MAETA

APPROVED BY

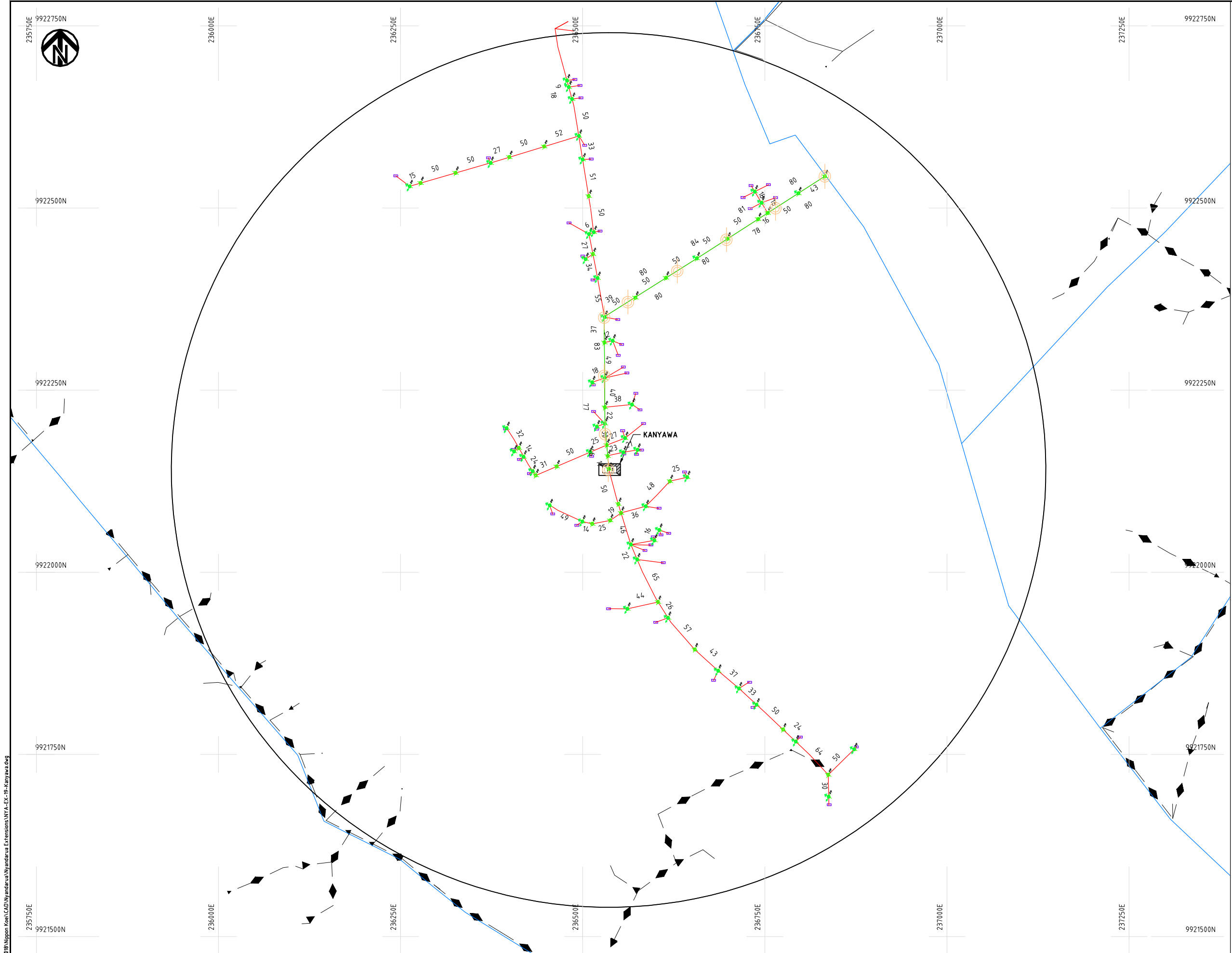
Y.TANAKA

DATE

10th SEP 2018



NIPPON KOEI CO., LTD



NOTES:

1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.

LEGEND

- HOUSEHOLDS/ BUILDINGS
- PROPOSED 11kV
- PROPOSED 33kV
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES 12M
- CONCRETE ELECTRIC POLES 11M
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING
- STAY

SCALE 1:5000 (A3)

PROJECT:

THE PREPARATORY SURVEY
ON THE PROJECT FOR IMPROVEMENT
OF POWER DISTRIBUTION SYSTEM
IN THE REPUBLIC OF KENYA

DRAWING TITLE

COUNTY: NYANDARUA
SCHEME: EXTENSION
PROJECT SITE: Kanyawa

DRAW. NO.

NYA-EX-19

PREPARED BY

A.AKBAR

CHECKED BY

S.MAETA

APPROVED BY

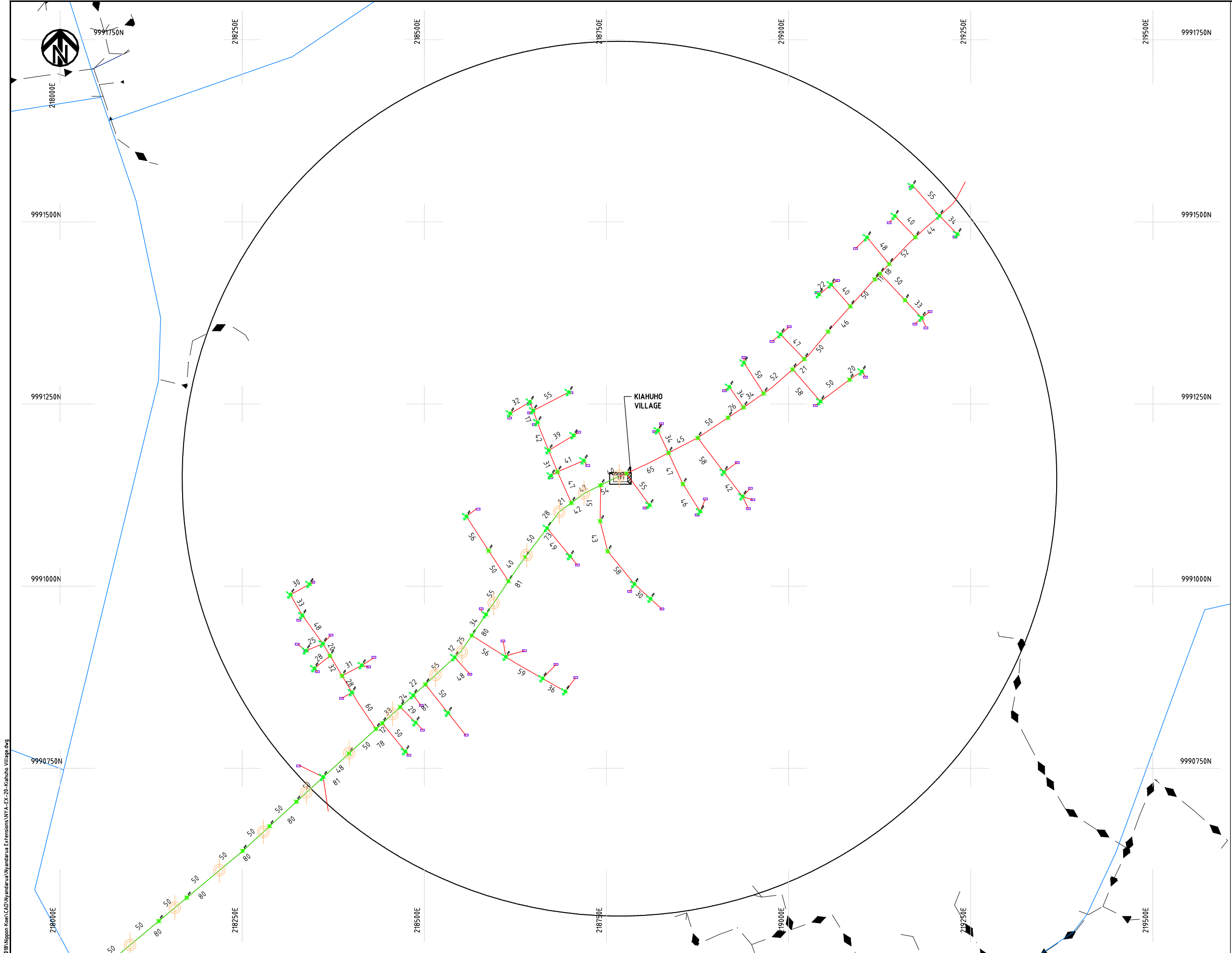
Y.TANAKA

DATE

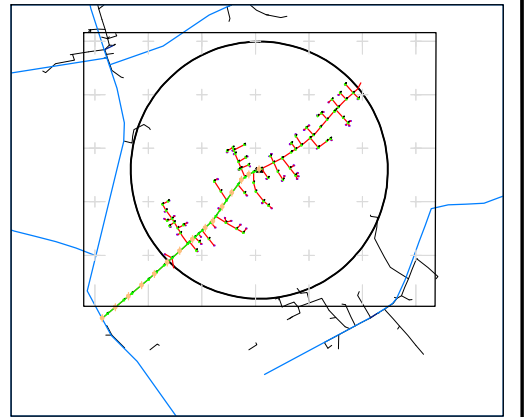
10th SEP 2018



NIPPON KOEI CO., LTD



- NOTES:**
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.



- LEGEND**
- HOUSEHOLDS/ BUILDINGS
 - PROPOSED 11kV
 - PROPOSED 33kV
 - PROPOSED DISTRIBUTION LINE
 - EXISTING 11kV LINE
 - EXISTING 33kV LINE
 - EXISTING DISTRIBUTION LINE
 - MAXIMISATION TRANSFORMER
 - EXTENSION TRANSFORMER
 - WOODEN ELECTRIC POLES
 - CONCRETE ELECTRIC POLES 12M
 - CONCRETE ELECTRIC POLES 11M
 - LV-EARTH
 - PME -PROTECTIVE MULTIPLE EARTHING
 - STAY

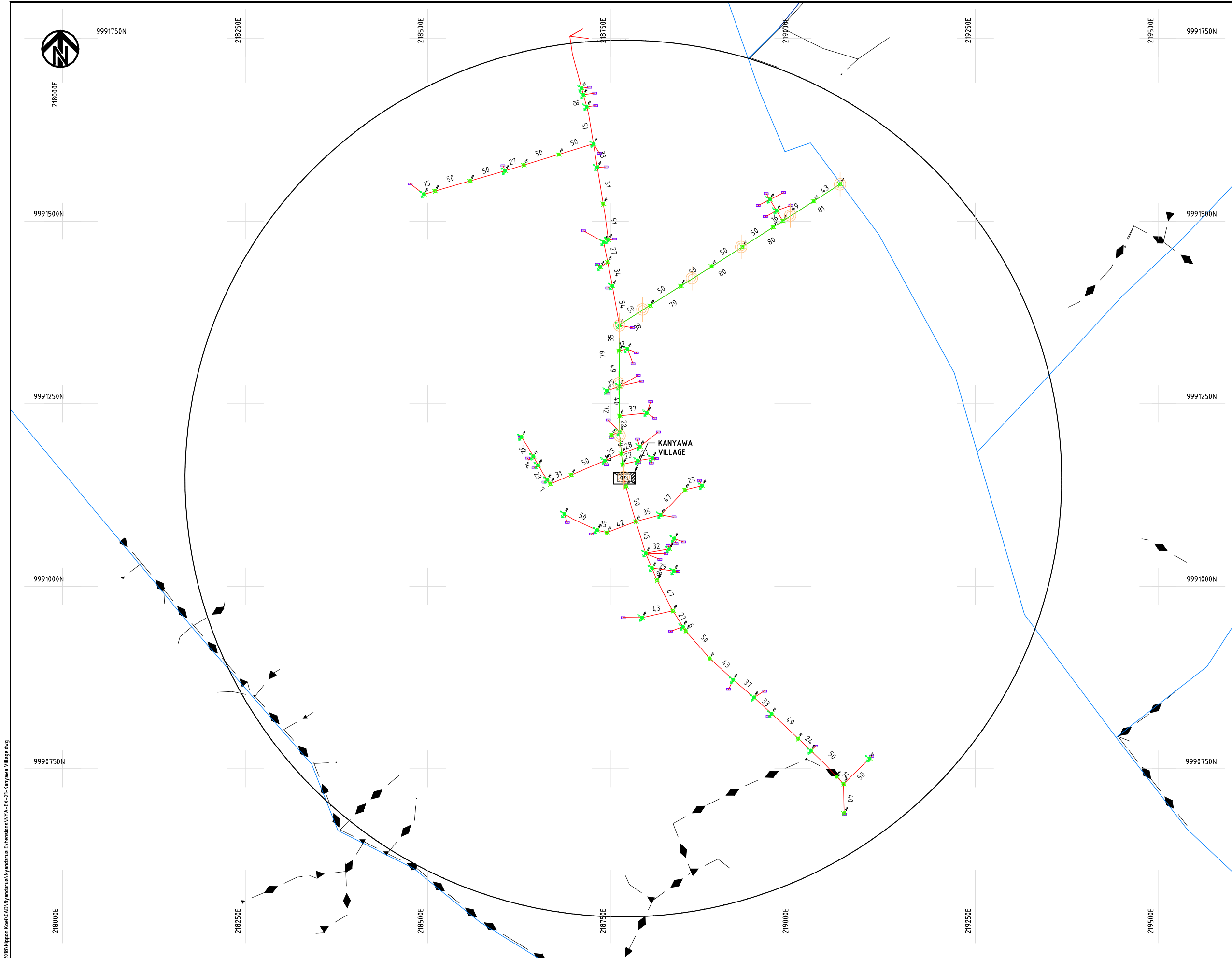


Cdr File No. DA/Frank-Proj(2)	PROJECT: THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA	DRAWING TITLE		DRAW. NO.	PREPARED BY	A.AKBAR
		COUNTY: NYANDARUA		NYA-EX-20	CHECKED BY	S.MAETA
		SCHEME: EXTENSION			APPROVED BY	Y.TANAKA
		PROJECT SITE: Kiahuho Village			DATE	10th SEP 2018



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Cad File No. D:\Frank-Proj\2018\Nippon Koei\CAD\Nyandarua\Nyandarua Extensions\NYA-EX-21-Kinyawa Village.dwg



NOTES:

1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.

LEGEND

- HOUSEHOLDS/ BUILDINGS
- PROPOSED 11kV
- PROPOSED 33kV
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- PP WOODEN ELECTRIC POLES
- CP CONCRETE ELECTRIC POLES 12M
- CP CONCRETE ELECTRIC POLES 11M
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING
- STAY

SCALE 1:5000 (A3)

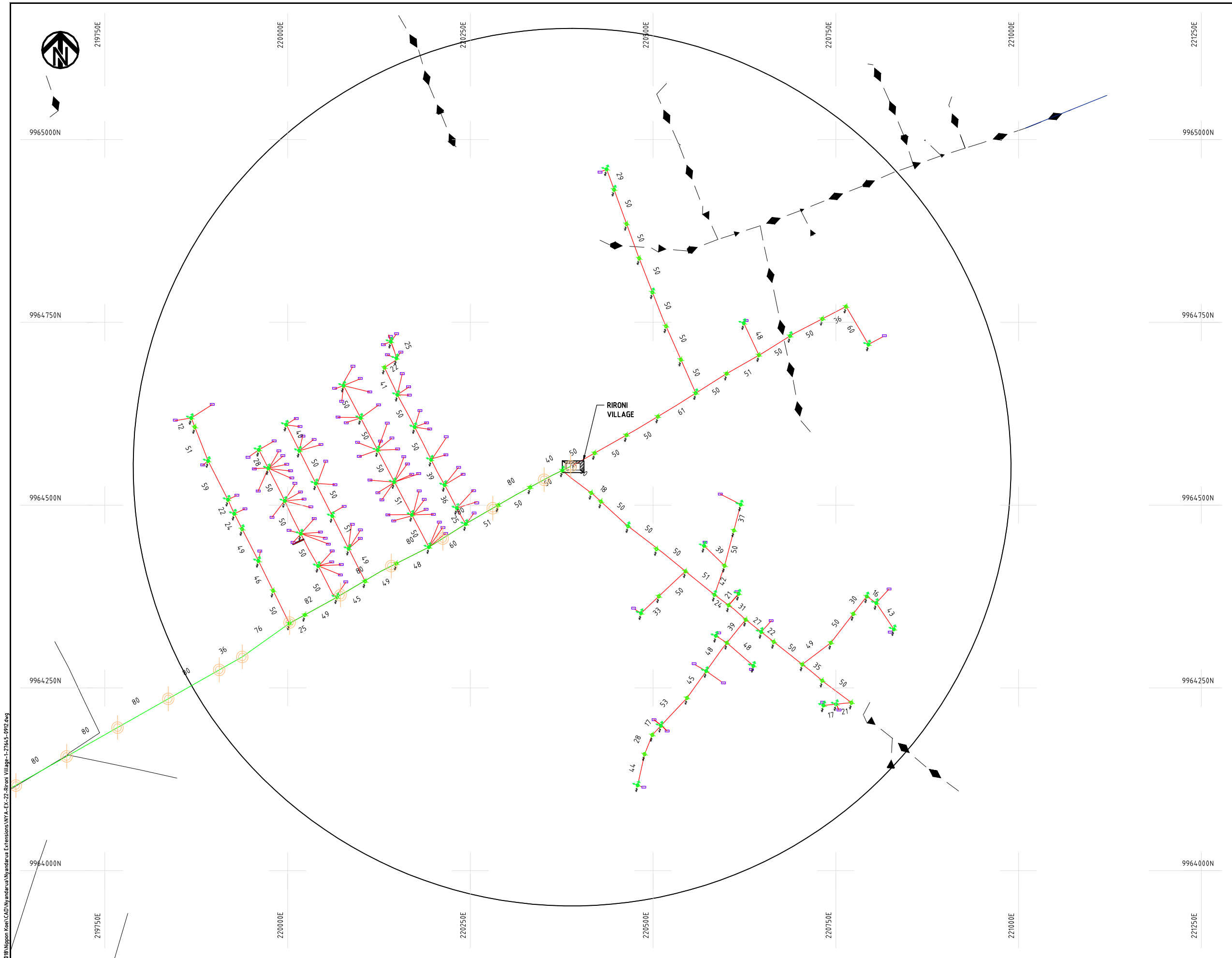
PROJECT:
**THE PREPARATORY SURVEY
ON THE PROJECT FOR IMPROVEMENT
OF POWER DISTRIBUTION SYSTEM
IN THE REPUBLIC OF KENYA**

DRAWING TITLE
**COUNTY: NYANDARUA
SCHEME: EXTENSION
PROJECT SITE: Kinyawa Village**

DRAW. NO. NYA-EX-21	PREPARED BY	A.AKBAR
	CHECKED BY	S.MAETA
	APPROVED BY	Y.TANAKA
	DATE	10th SEP 2018

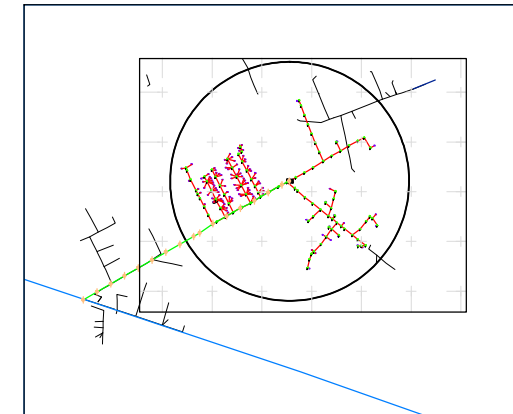


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NOTES:

1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.



KEY PLAN

LEGEND

- HOUSEHOLDS/ BUILDINGS
- PROPOSED 11kV
- PROPOSED 33kV
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES 12M
- CONCRETE ELECTRIC POLES 11M
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING
- STAY

SCALE 1:5000 50 0 50 100 150 200 250m (A3)

PROJECT:		DRAWING TITLE		DRAW. NO.	PREPARED BY	A.AKBAR
THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA		COUNTY: NYANDARUA SCHEME: EXTENSION PROJECT SITE: Ririni Village		NYA-EX-22	CHECKED BY	S.MAETA
					APPROVED BY	Y.TANAKA
					DATE	10th SEP 2018





9948500N

9948250N

9948000N

9947750N

9947500N

221250E

221500E

221750E

222000E

222250E

222500E

221250E

221500E

221750E

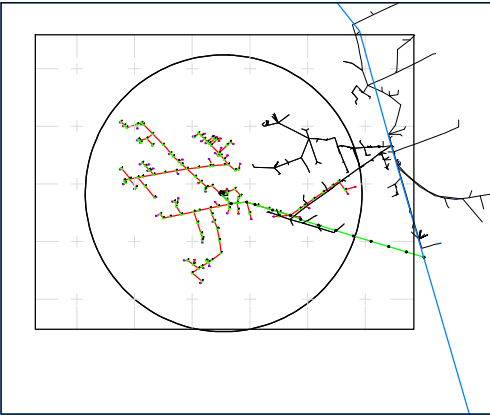
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222250E

222500E

NOTES:

1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.



KEY PLAN

LEGEND

- HOUSEHOLDS/ BUILDINGS
- PROPOSED 11kV
- PROPOSED 33kV
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES 12M
- CONCRETE ELECTRIC POLES 11M
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING
- STAY

SCALE 1:5000 50 0 50 100 150 200 250m (A3)

PROJECT:

THE PREPARATORY SURVEY
ON THE PROJECT FOR IMPROVEMENT
OF POWER DISTRIBUTION SYSTEM
IN THE REPUBLIC OF KENYA

DRAWING TITLE

COUNTY: NYANDARUA
SCHEME: EXTENSION
PROJECT SITE: Mawingu Village

DRAW. NO.

NYA-EX-23

PREPARED BY

A.AKBAR

CHECKED BY

S.MAETA

APPROVED BY

Y.TANAKA

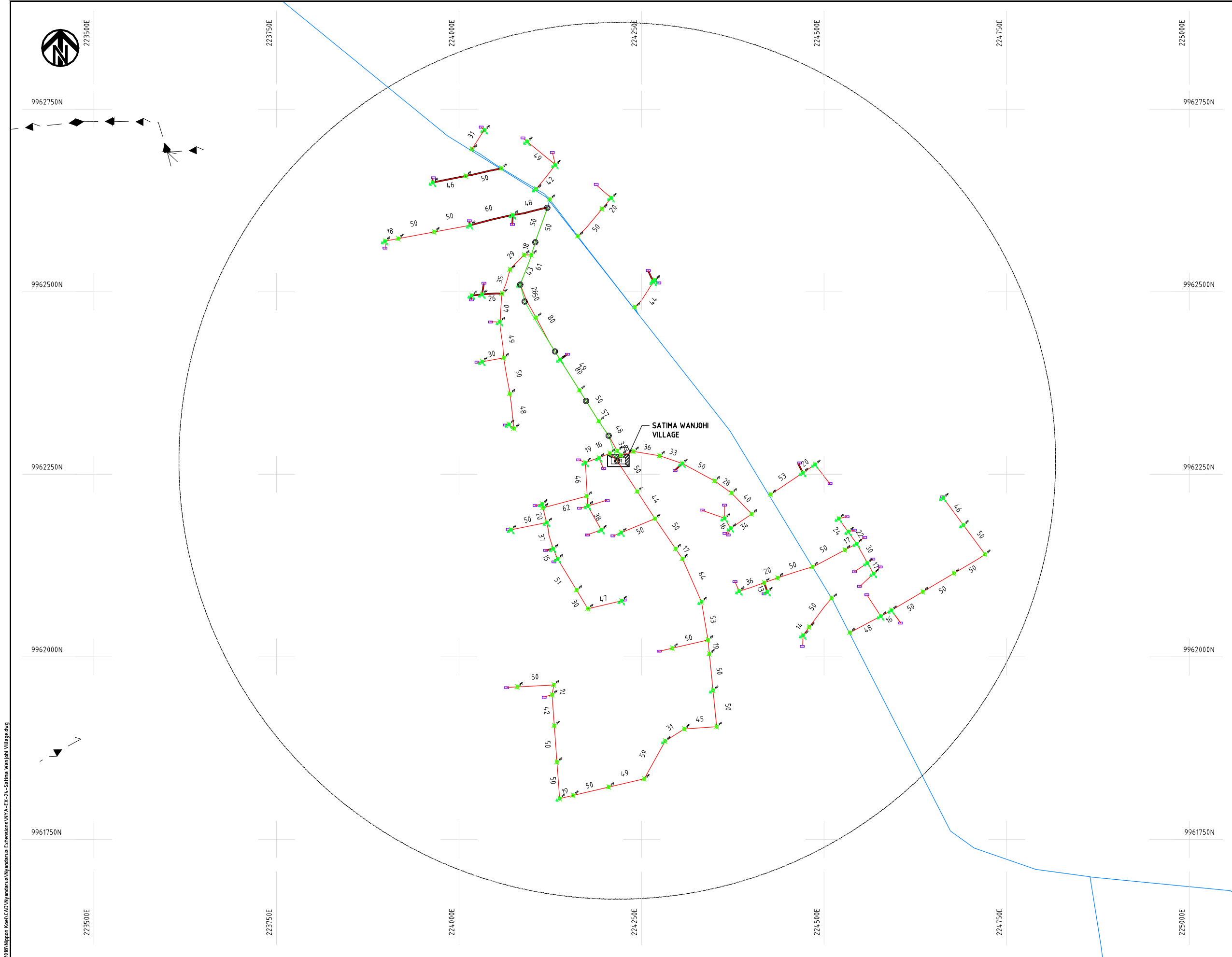
DATE

10th SEP 2018



NIPPON KOEI CO., LTD

Cad File No. D:\Frank-Proj\2018\Nippon Koei\CAD\Nyandarua\Nyandarua Extensions\NYA-EX-24-Satima Wanjohi Village.dwg



NOTES:

1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.

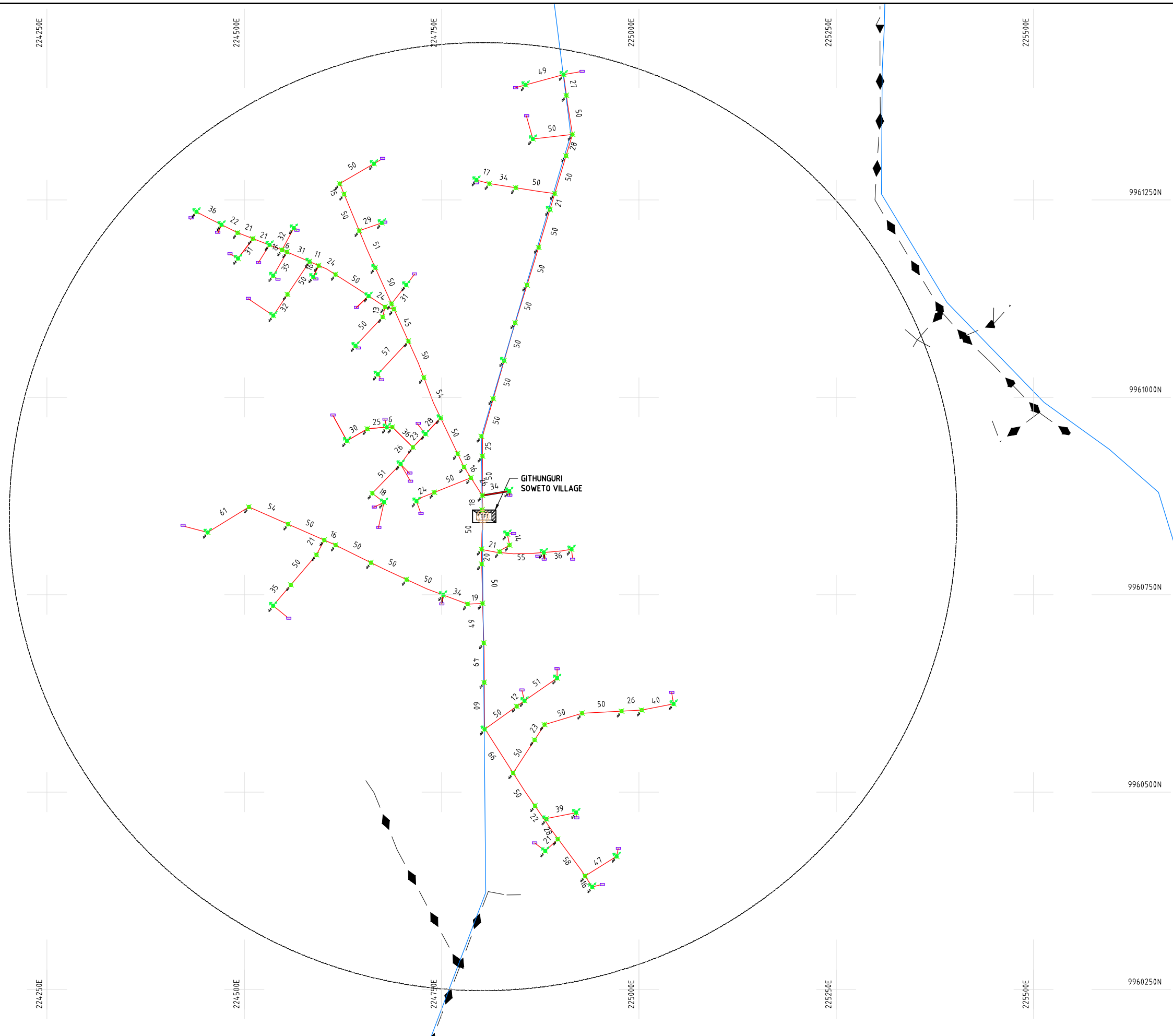
LEGEND

- HOUSEHOLDS/ BUILDINGS
- PROPOSED 11kV
- PROPOSED 33kV
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- PP WOODEN ELECTRIC POLES
- CP CONCRETE ELECTRIC POLES 12M
- CP CONCRETE ELECTRIC POLES 11M
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING
- STAY

SCALE 1:5000 (A3)

PROJECT: THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA	DRAWING TITLE		DRAW. NO.	PREPARED BY	A.AKBAR
	COUNTY:	NYANDARUA	NYA-EX-24	CHECKED BY	S.MAETA
	SCHEME:	EXTENSION		APPROVED BY	Y.TANAKA
	PROJECT SITE:	Satima Wanjohi Village		DATE	10th SEP 2018





NOTES:

1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.

LEGEND

- HOUSEHOLDS/ BUILDINGS
- PROPOSED 11kV
- PROPOSED 33kV
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES 12M
- CONCRETE ELECTRIC POLES 11M
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING
- STAY

SCALE 1:5000 (A3)

PROJECT:

THE PREPARATORY SURVEY
ON THE PROJECT FOR IMPROVEMENT
OF POWER DISTRIBUTION SYSTEM
IN THE REPUBLIC OF KENYA

DRAWING TITLE

COUNTY: NYANDARUA
SCHEME: EXTENSION
PROJECT SITE: Githunguri Soweto Village

DRAW. NO.

NYA-EX-25

PREPARED BY

A.AKBAR

CHECKED BY

S.MAETA

APPROVED BY

Y.TANAKA

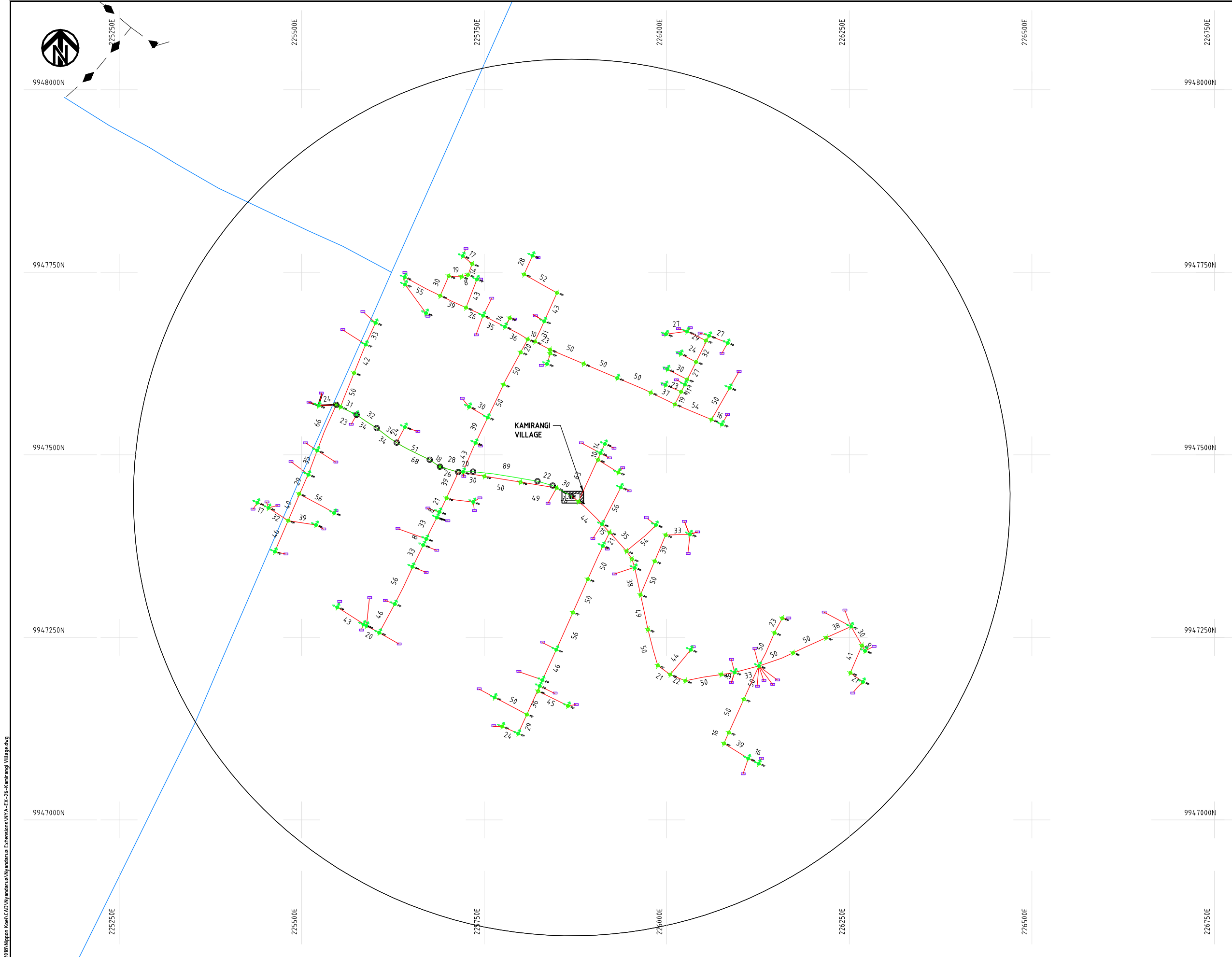
DATE

10th SEP 2018



NIPPON KOEI CO., LTD

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NOTES:

1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.

LEGEND

- HOUSEHOLDS/ BUILDINGS
- PROPOSED 11kV
- PROPOSED 33kV
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- PP WOODEN ELECTRIC POLES
- CP CONCRETE ELECTRIC POLES 12M
- CP CONCRETE ELECTRIC POLES 11M
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING
- STAY

SCALE 1:5000 (A3)

PROJECT:

THE PREPARATORY SURVEY
ON THE PROJECT FOR IMPROVEMENT
OF POWER DISTRIBUTION SYSTEM
IN THE REPUBLIC OF KENYA

DRAWING TITLE

COUNTY: NYANDARUA
SCHEME: EXTENSION
PROJECT SITE: Kamirangi Village

DRAW. NO.

NYA-EX-26

PREPARED BY

A.AKBAR

CHECKED BY

S.MAETA

APPROVED BY

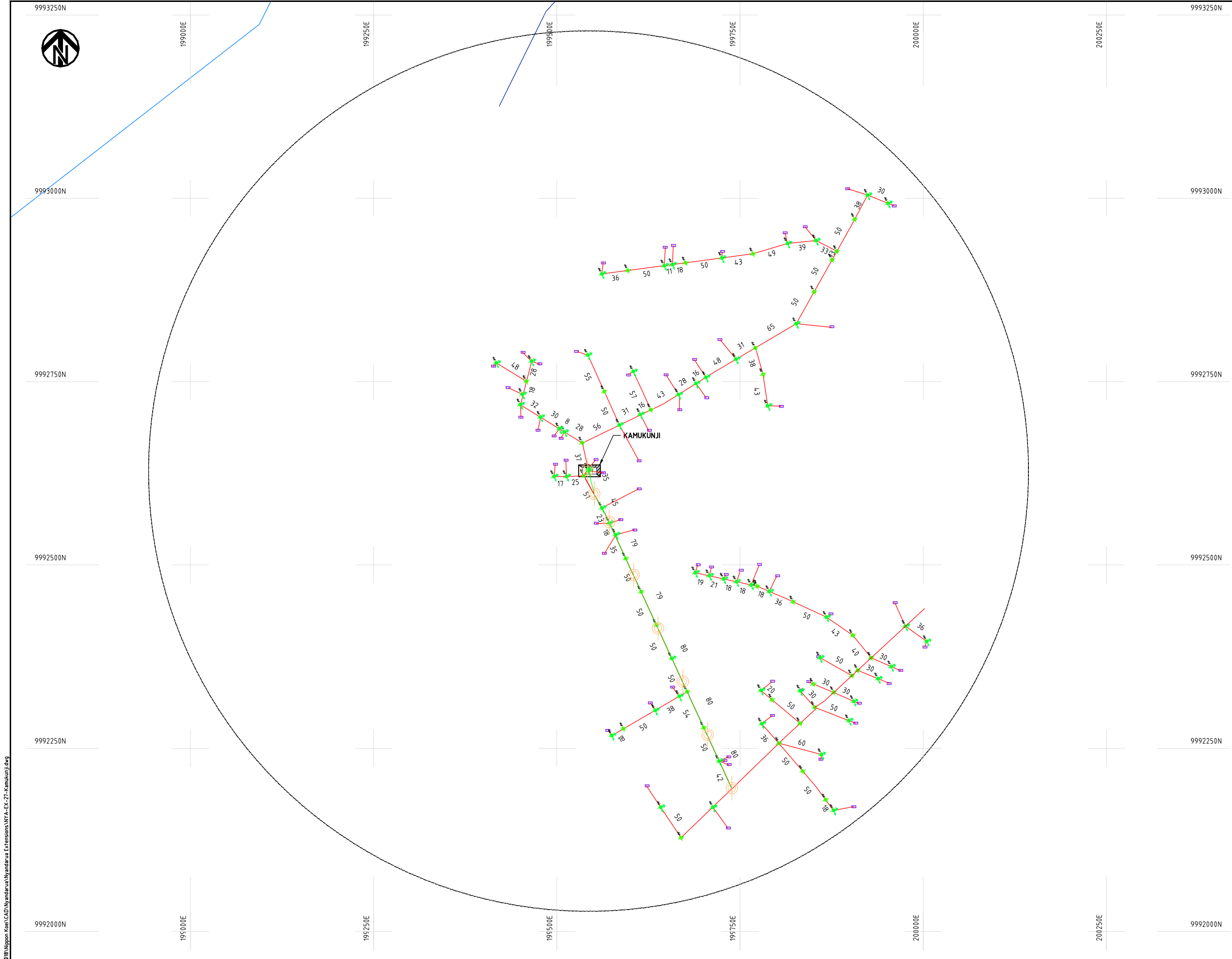
Y.TANAKA

DATE

10th SEP 2018



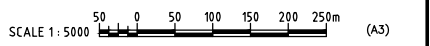
NIPPON KOEI CO., LTD



- NOTES:**
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 2. CONCRETE / WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.

LEGEND

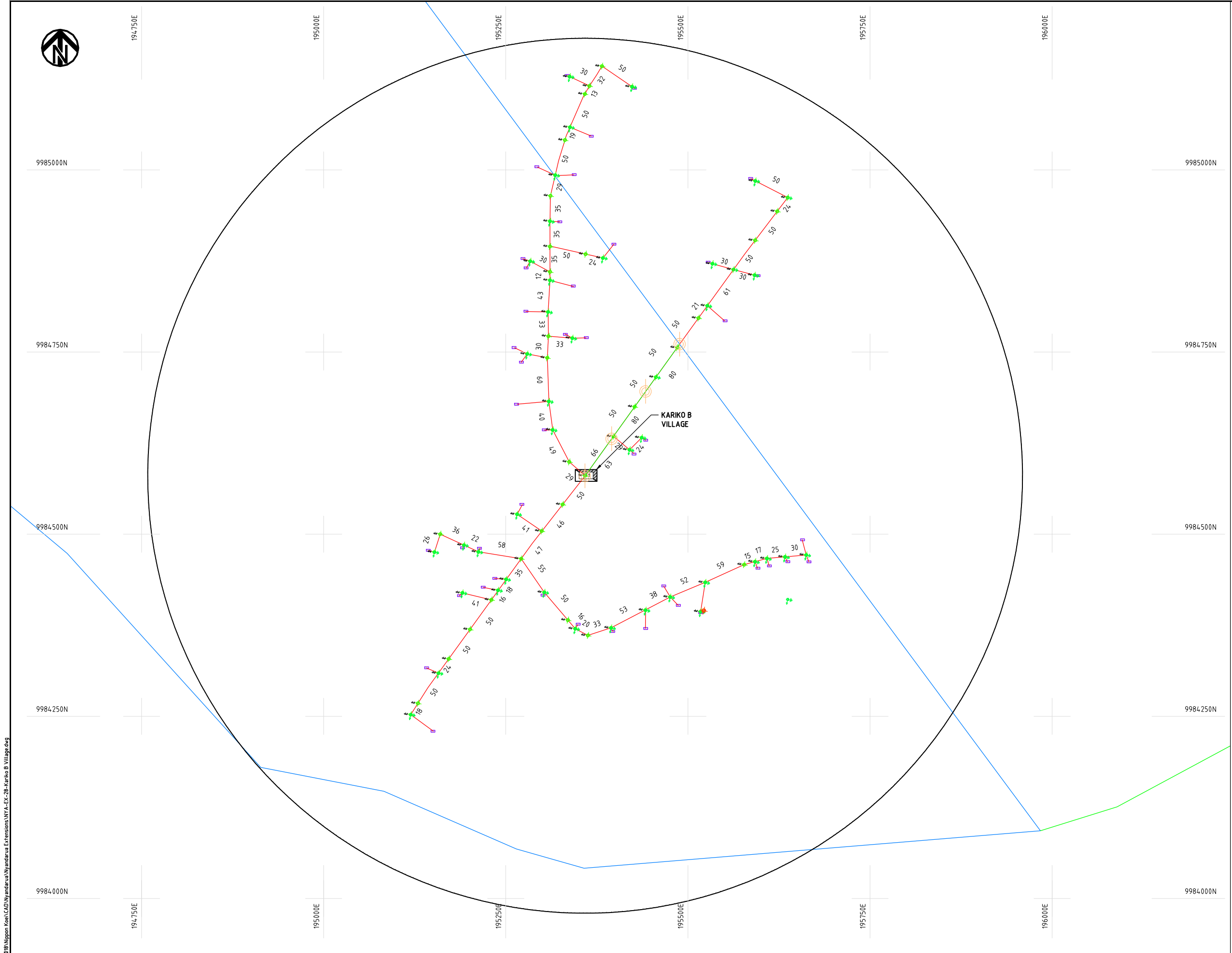
- HOUSEHOLDS/ BUILDINGS
- PROPOSED 11kV
- PROPOSED 33kV
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES 12M
- CONCRETE ELECTRIC POLES 11M
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING
- STAY



Cad File No. D:\Frank-Proj\2018\Nippon Koei\CAD\Nyandarua Extensions\NYA-EX-27-Kamukunji.dwg

PROJECT:	DRAWING TITLE			DRAW. NO.		PREPARED BY	A.AKBAR
						CHECKED BY	S.MAETA
	COUNTY: NYANDARUA SCHEME: EXTENSION PROJECT SITE: Kamukunji			NYA-EX-27		APPROVED BY	Y.TANAKA
						DATE	10th SEP 2018





NOTES:

1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.

LEGEND

- HOUSEHOLDS/ BUILDINGS
- PROPOSED 11kV
- PROPOSED 33kV
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES 12M
- CONCRETE ELECTRIC POLES 11M
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING
- STAY

SCALE 1:5000 (A3)

PROJECT:
THE PREPARATORY SURVEY
ON THE PROJECT FOR IMPROVEMENT
OF POWER DISTRIBUTION SYSTEM
IN THE REPUBLIC OF KENYA

DRAWING TITLE
COUNTY: NYANDARUA
SCHEME: EXTENSION
PROJECT SITE: Kariko B Village

DRAW. NO.	PREPARED BY	A.AKBAR
NYA-EX-28	CHECKED BY	S.MAETA
	APPROVED BY	Y.TANAKA
	DATE	10th SEP 2018





9925250N

9925000N

9924750N

9924500N

9924250N

236000E

236250E

236500E

236750E

237000E

237250E

9925250N

9925000N

9924750N

9924500N

9924250N

236000E

236250E

236500E

236750E

237000E

237250E

NOTES:

1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
2. CONCRETE / WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.

LEGEND

- HOUSEHOLDS/ BUILDINGS
- PROPOSED 11kV
- PROPOSED 33kV
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- PP WOODEN ELECTRIC POLES
- CP CONCRETE ELECTRIC POLES 12M
- CP CONCRETE ELECTRIC POLES 11M
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING
- STAY

SCALE 1:5000 (A3)

PROJECT:

THE PREPARATORY SURVEY
ON THE PROJECT FOR IMPROVEMENT
OF POWER DISTRIBUTION SYSTEM
IN THE REPUBLIC OF KENYA

DRAWING TITLE

COUNTY: NYANDARUA
SCHEME: EXTENSION
PROJECT SITE: Kiriahu Village

DRAW. NO.

NYA-EX-29

PREPARED BY

A.AKBAR

CHECKED BY

S.MAETA

APPROVED BY

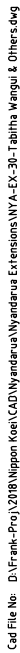
Y.TANAKA

DATE

10th SEP 2018



NIPPON KOEI CO., LTD



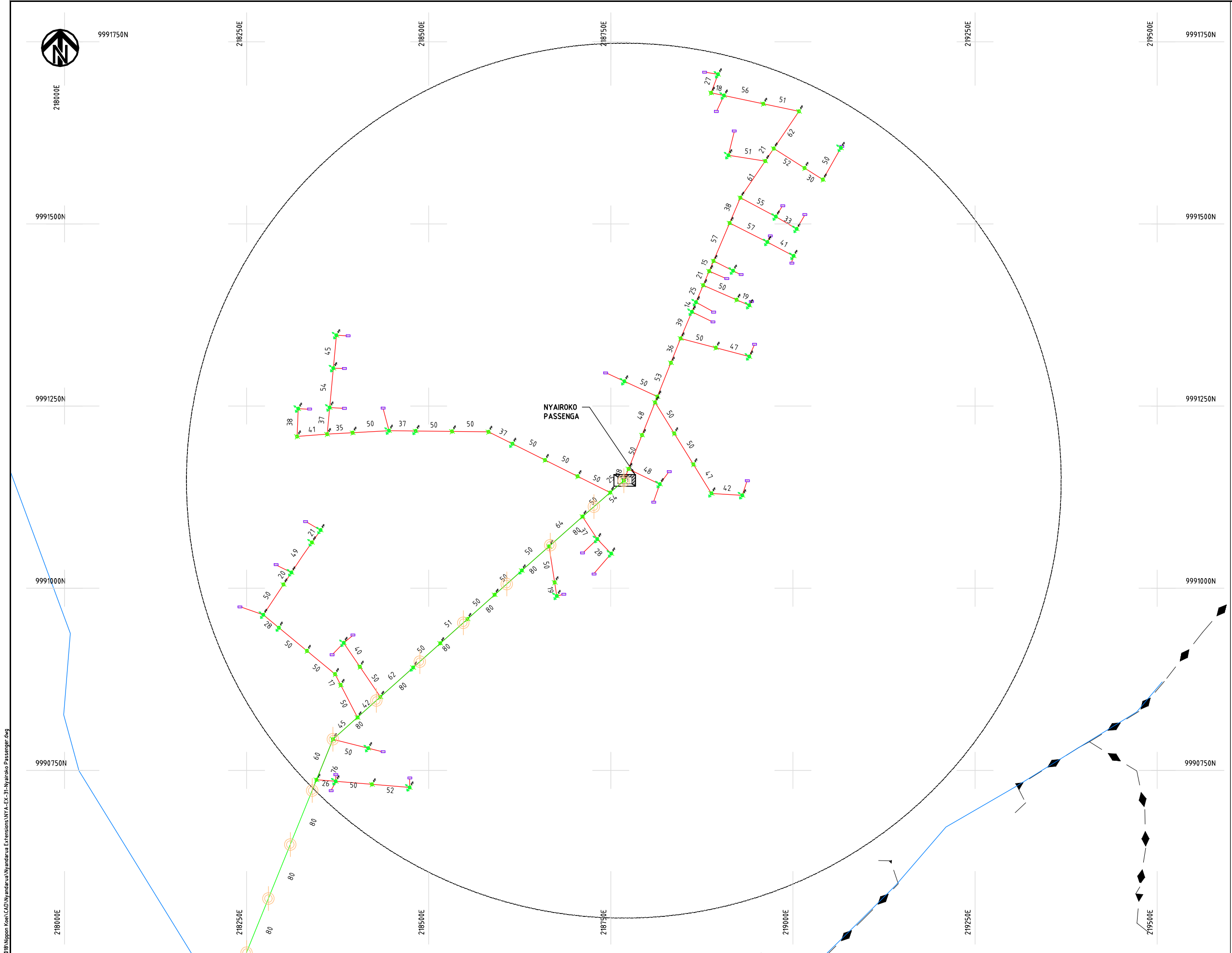
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2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.

	HOUSEHOLDS/ BUILDINGS
	PROPOSED 11kV
	PROPOSED 33kV
	PROPOSED DISTRIBUTION LINE
	EXISTING 11kV LINE
	EXISTING 33kV LINE
	EXISTING DISTRIBUTION LINE
	MAXIMISATION TRANSFORMER
	EXTENSION TRANSFORMER
	WOODEN ELECTRIC POLES
	CONCRETE ELECTRIC POLES 12M
	CONCRETE ELECTRIC POLES 11M
	LV-EARTH
	PME -PROTECTIVE MULTIPLE EARTHING
	STAY



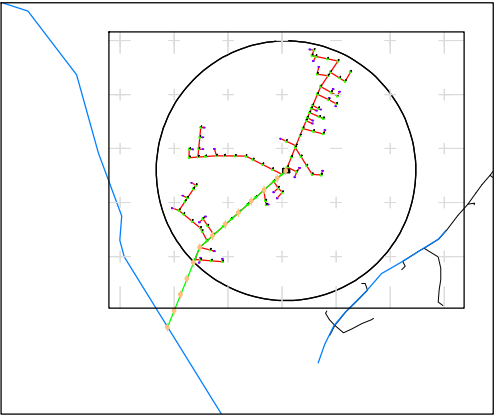
Oct 28, 2018 - 6:48pm

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NOTES:

1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.



KEY PLAN

LEGEND

- HOUSEHOLDS/ BUILDINGS
- PROPOSED 11kV
- PROPOSED 33kV
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES 12M
- CONCRETE ELECTRIC POLES 11M
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING
- STAY

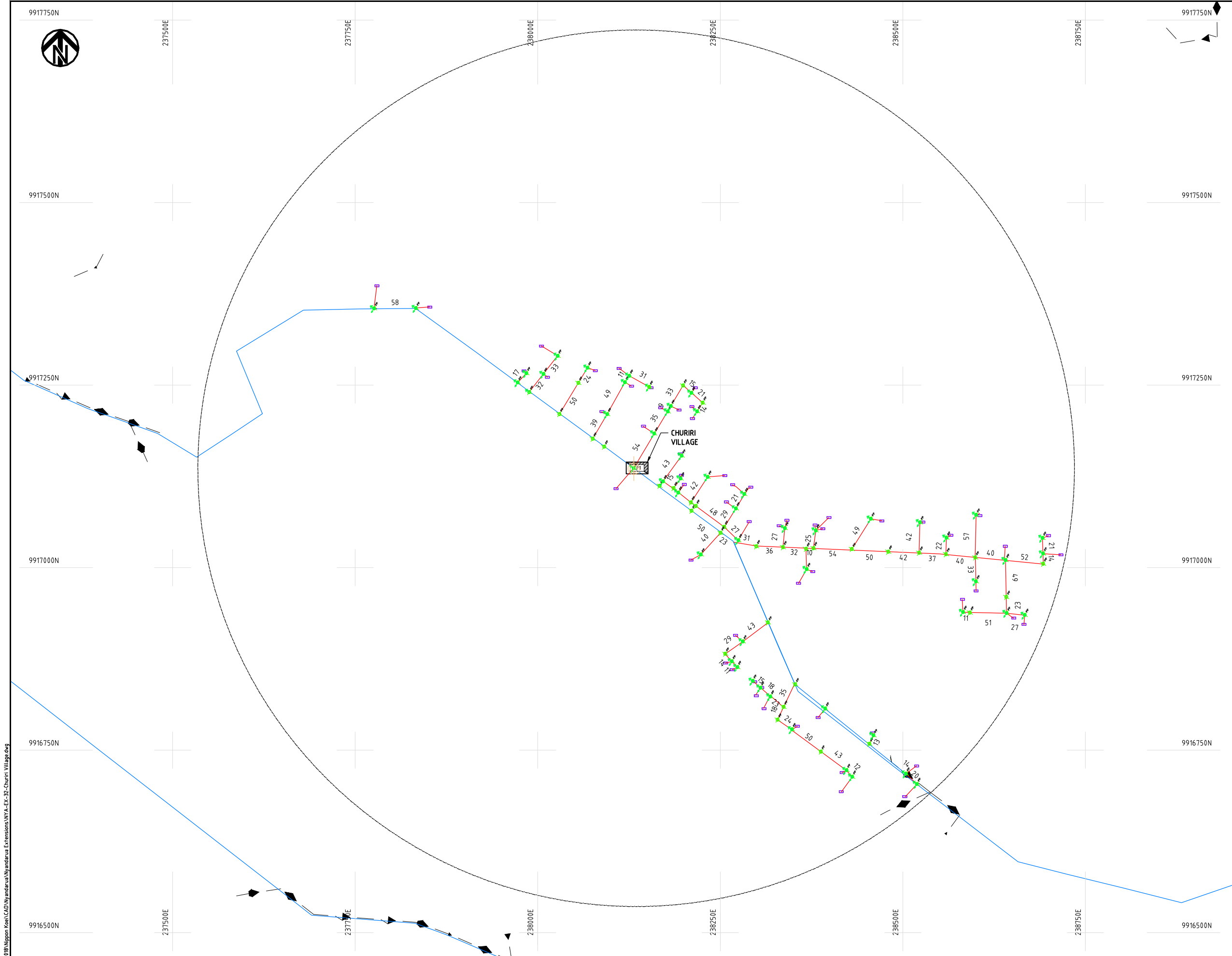
SCALE 1:5000 50 0 50 100 150 200 250m (A3)

PROJECT:
THE PREPARATORY SURVEY
ON THE PROJECT FOR IMPROVEMENT
OF POWER DISTRIBUTION SYSTEM
IN THE REPUBLIC OF KENYA

DRAWING TITLE
COUNTY: NYANDARUA
SCHEME: EXTENSION
PROJECT SITE: Nyairoko Passenga

DRAW. NO.	PREPARED BY	A.AKBAR
NYA-EX-31	CHECKED BY	S.MAETA
	APPROVED BY	Y.TANAKA
	DATE	10th SEP 2018





NOTES:

1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.

LEGEND

- HOUSEHOLDS/ BUILDINGS
- PROPOSED 11kV
- PROPOSED 33kV
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES 12M
- CONCRETE ELECTRIC POLES 11M
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING
- STAY

SCALE 1: 5000 (A3)

PROJECT:

THE PREPARATORY SURVEY
ON THE PROJECT FOR IMPROVEMENT
OF POWER DISTRIBUTION SYSTEM
IN THE REPUBLIC OF KENYA

DRAWING TITLE

COUNTY: NYANDARUA
SCHEME: EXTENSION
PROJECT SITE: Chuchiri Village

DRAW. NO.

NYA-EX-32

PREPARED BY

A.AKBAR

CHECKED BY

S.MAETA

APPROVED BY

Y.TANAKA

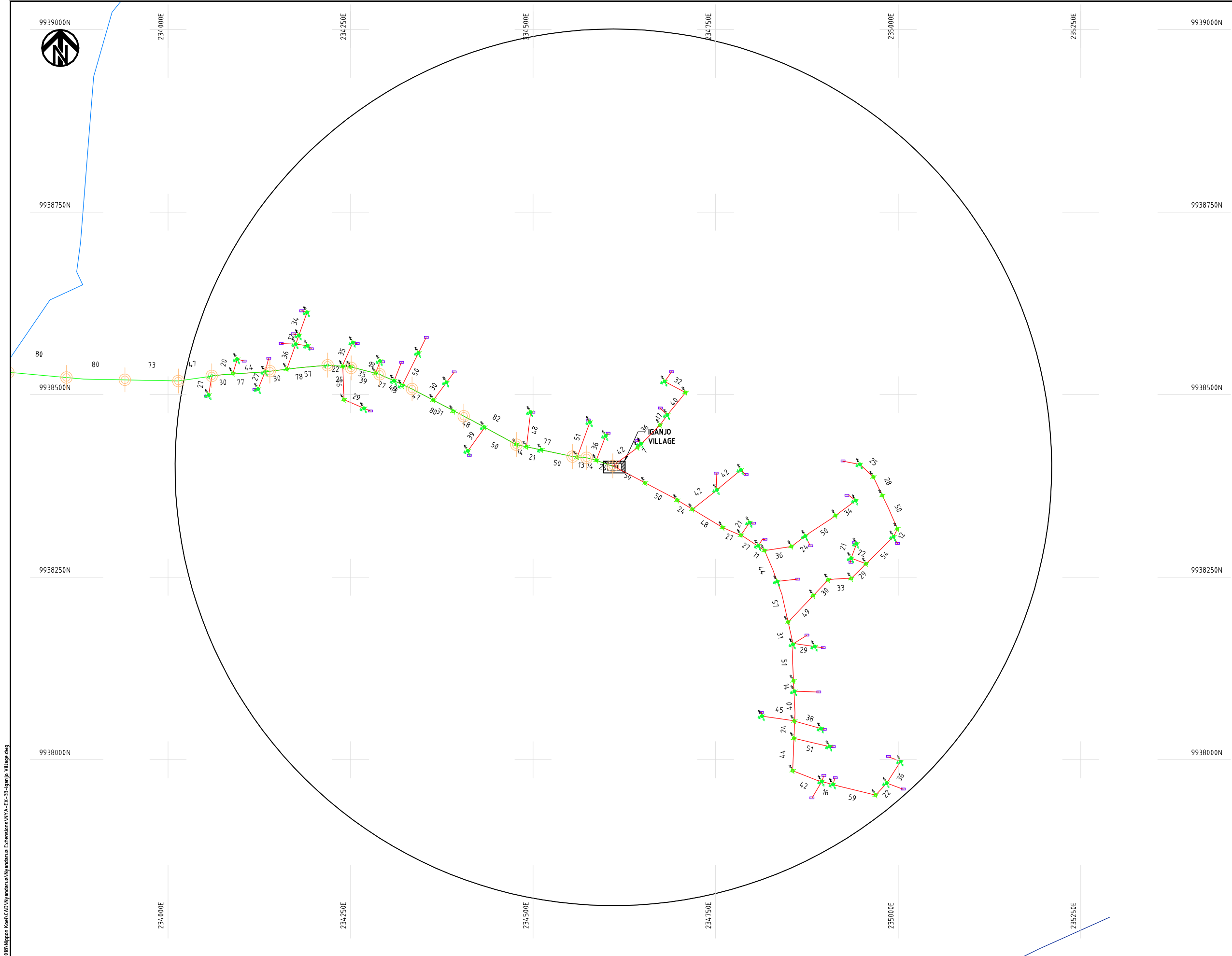
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10th SEP 2018



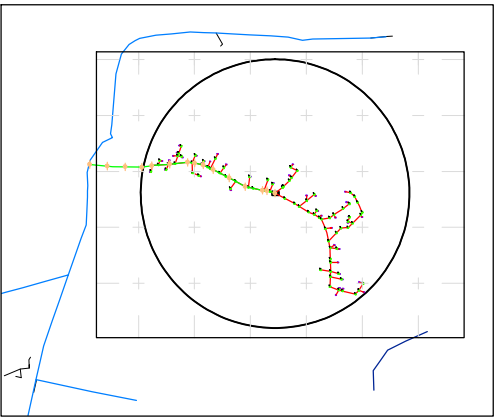
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NOTES:

1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.



LEGEND

- HOUSEHOLDS/ BUILDINGS
- PROPOSED 11kV
- PROPOSED 33kV
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES 12M
- CONCRETE ELECTRIC POLES 11M
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING
- STAY

SCALE 1:5000 (A3)

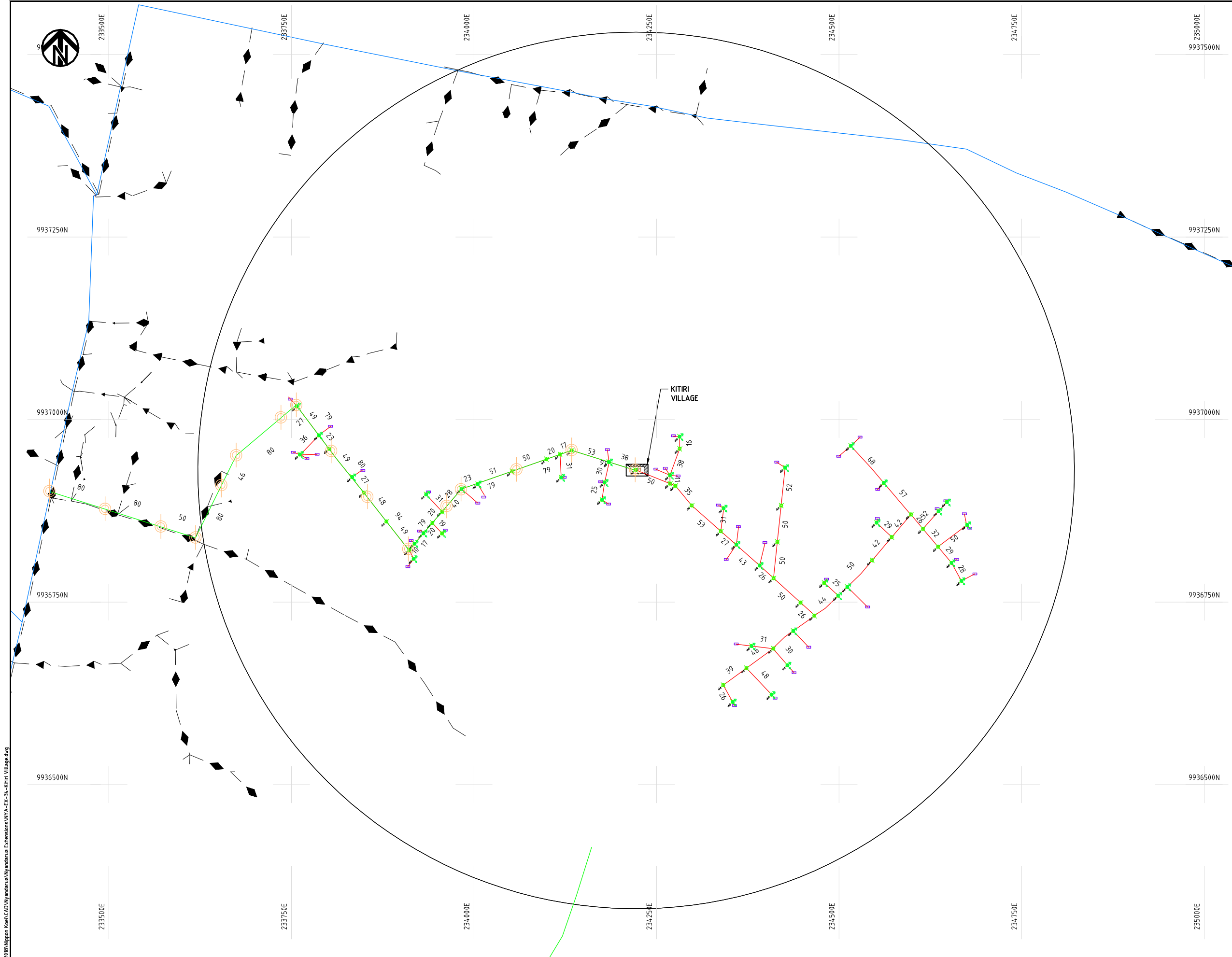
PROJECT:
THE PREPARATORY SURVEY
ON THE PROJECT FOR IMPROVEMENT
OF POWER DISTRIBUTION SYSTEM
IN THE REPUBLIC OF KENYA

DRAWING TITLE
COUNTY: NYANDARUA
SCHEME: EXTENSION
PROJECT SITE: Iganjo Village

DRAW. NO.	PREPARED BY	A.AKBAR
NYA-EX-33	CHECKED BY	S.MAETA
	APPROVED BY	Y.TANAKA
	DATE	10th SEP 2018



Cad File No. D:\Frank-Proj\2018\Nippon Koei\CAD\Nyandarua\Nyandarua Extensions\NYA-EX-34-Kitiri Village.dwg



NOTES:

1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.

LEGEND

- HOUSEHOLDS/ BUILDINGS
- PROPOSED 11kV
- PROPOSED 33kV
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES 12M
- CONCRETE ELECTRIC POLES 11M
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING
- STAY

SCALE 1:5000 50 0 50 100 150 200 250m (A3)

PROJECT:

THE PREPARATORY SURVEY
ON THE PROJECT FOR IMPROVEMENT
OF POWER DISTRIBUTION SYSTEM
IN THE REPUBLIC OF KENYA

DRAWING TITLE

COUNTY: NYANDARUA
SCHEME: EXTENSION
PROJECT SITE: Kitiri Village

DRAW. NO.

NYA-EX-34

PREPARED BY

A.AKBAR

CHECKED BY

S.MAETA

APPROVED BY

Y.TANAKA

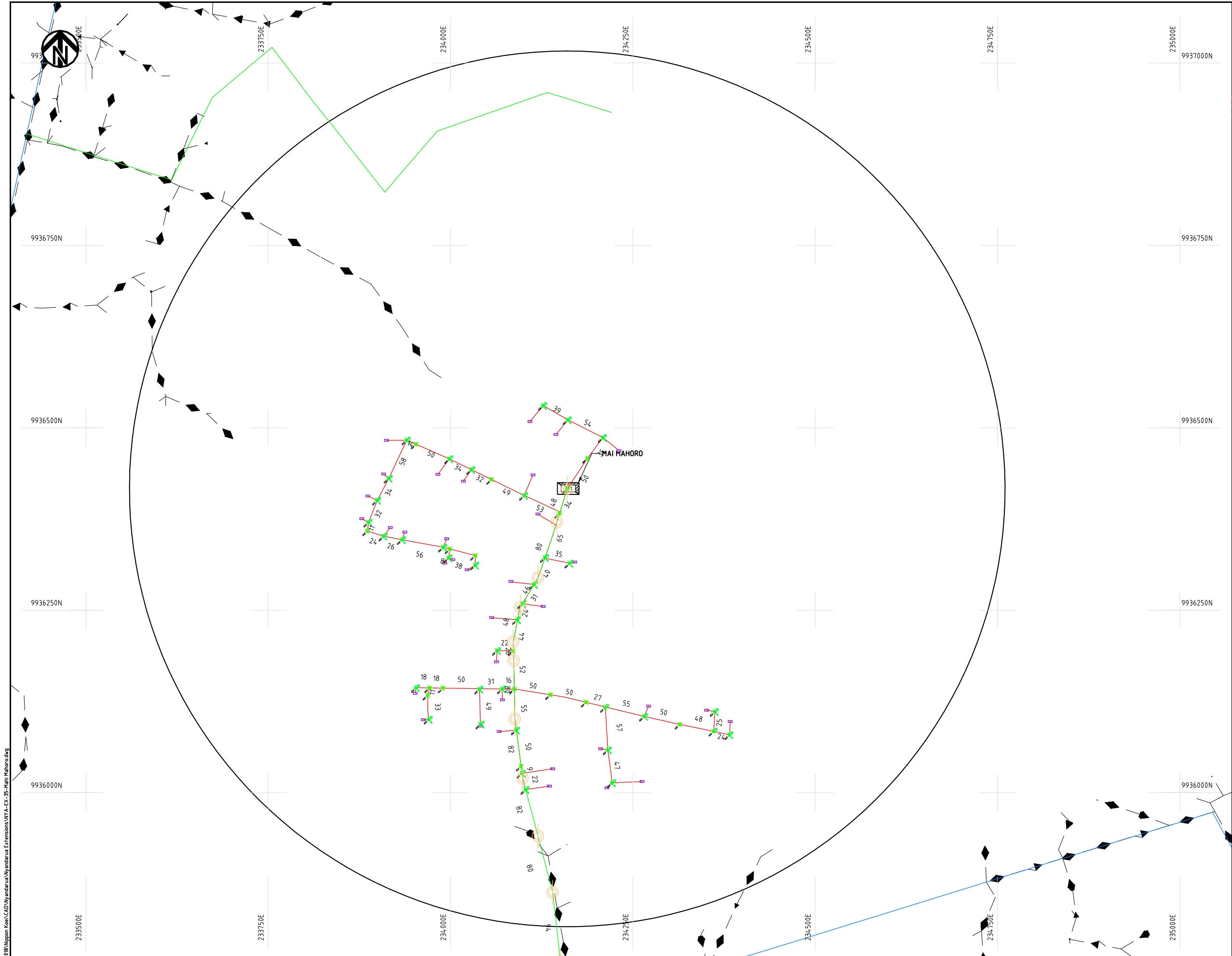
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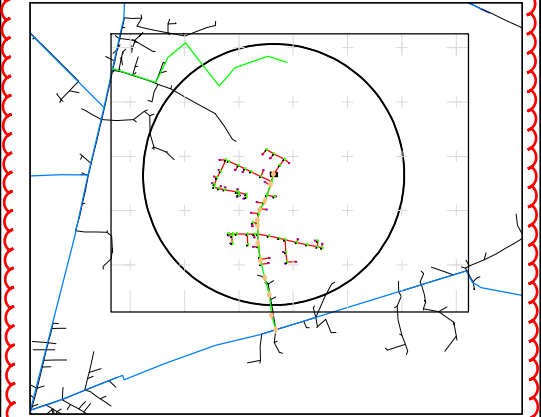
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NOTES:

1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
2. CONCRETE / WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.



KEY PLAN

LEGEND

- HOUSEHOLDS/ BUILDINGS
- PROPOSED 11kV
- PROPOSED 33kV
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES 12M
- CONCRETE ELECTRIC POLES 11M
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING
- STAY

SCALE 1: 5000 50 0 50 100 150 200 250m (A3)

PROJECT:

THE PREPARATORY SURVEY
ON THE PROJECT FOR IMPROVEMENT
OF POWER DISTRIBUTION SYSTEM
IN THE REPUBLIC OF KENYA

DRAWING TITLE

COUNTY: NYANDARUA
SCHEME: EXTENSION
PROJECT SITE: Mai Mahoro

DRAW. NO.

NYA-EX-35

PREPARED BY

A.AKBAR

CHECKED BY

S.MAETA

APPROVED BY

Y.TANAKA

DATE

10th SEP 2018



NIPPON KOEI CO., LTD