

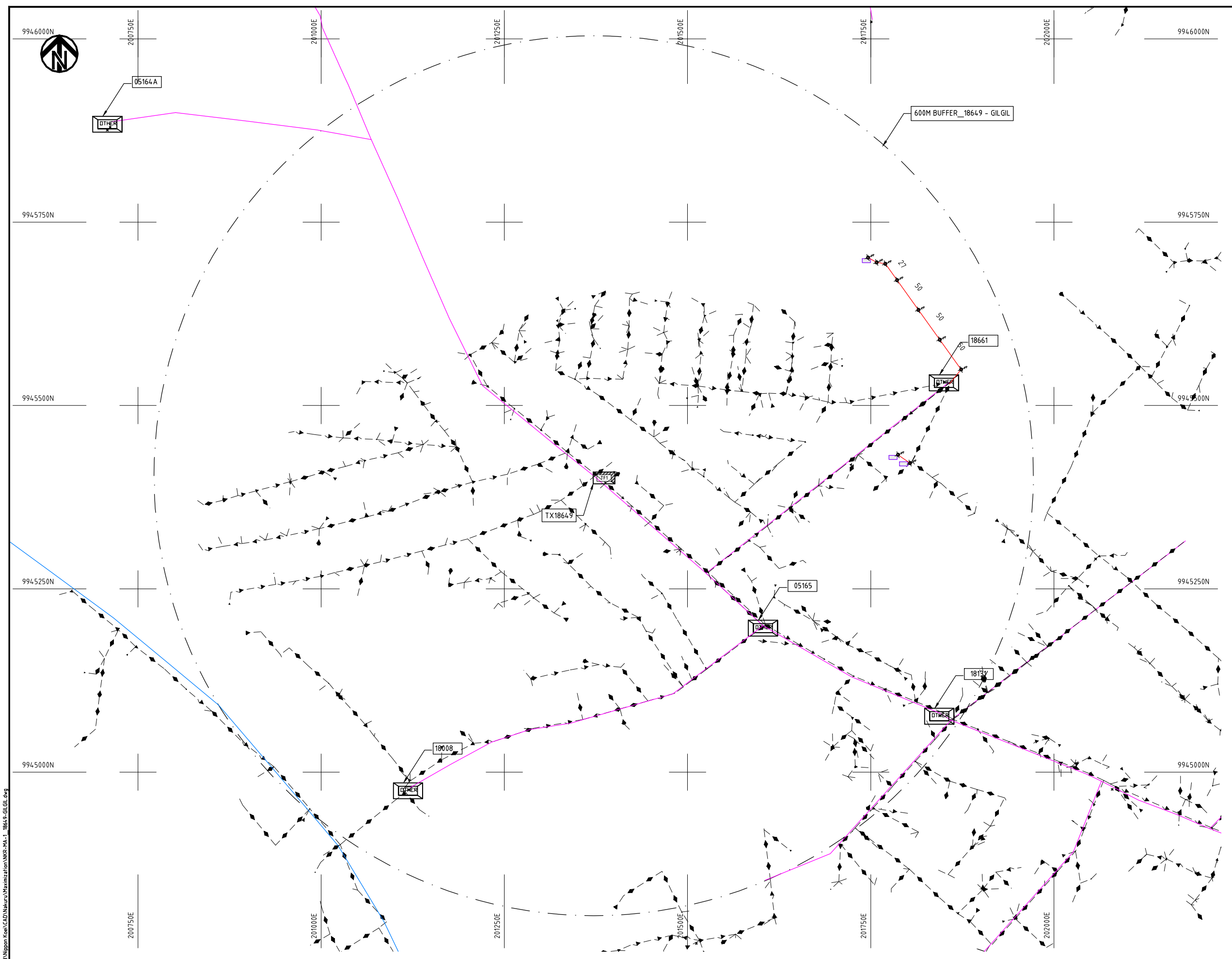
資料-8

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 |

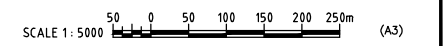
ナクル郡

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



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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: 18649-GILGIL | | NKR-MA-1 | CHECKED BY | S.MAETA |
| | | | | APPROVED BY | Y.TANAKA |
| | | | | DATE | 10th SEP 2018 |



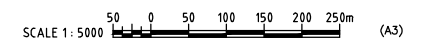


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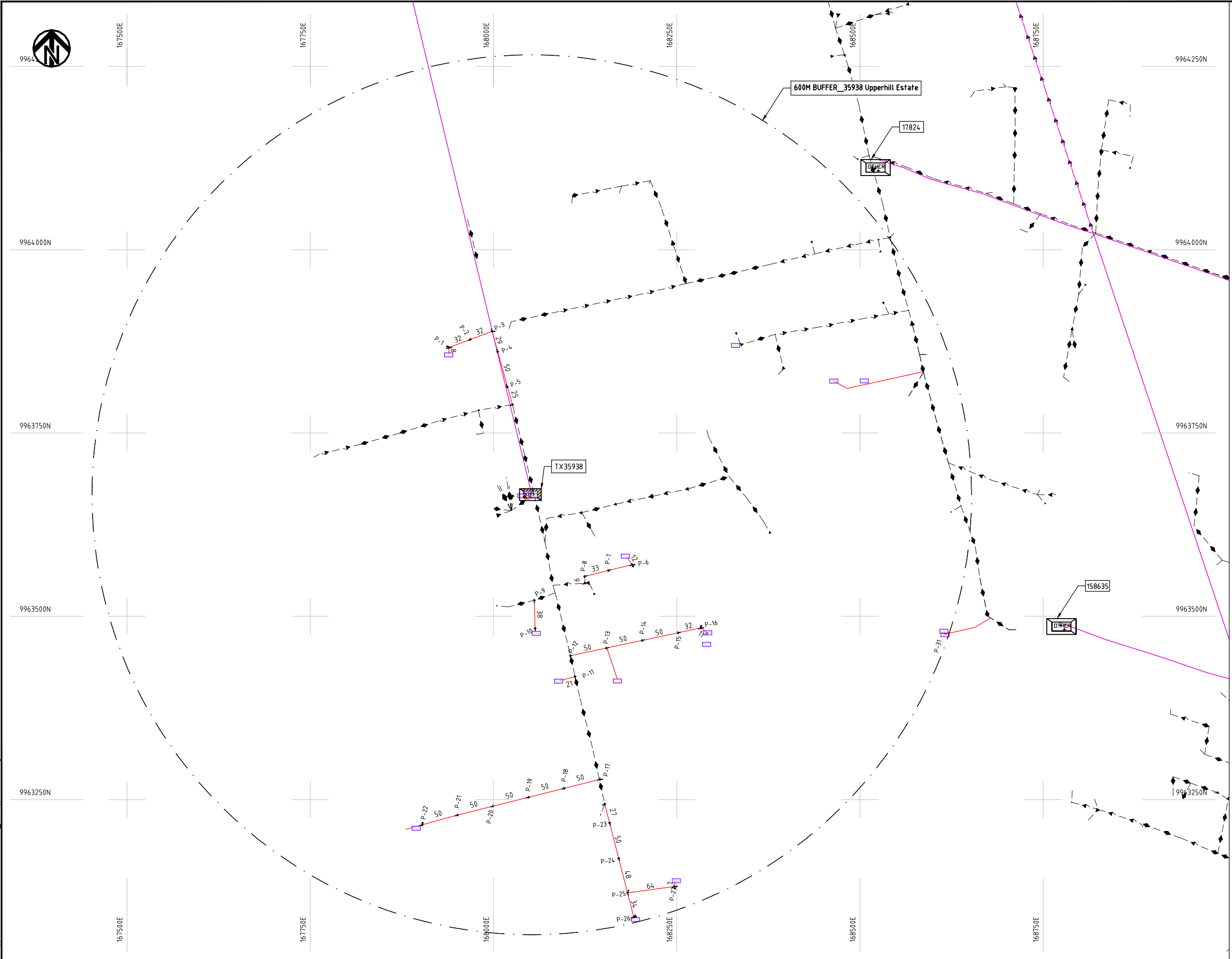
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.
5. POLES NOT SHOWN WHERE PME OR LV EARTH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

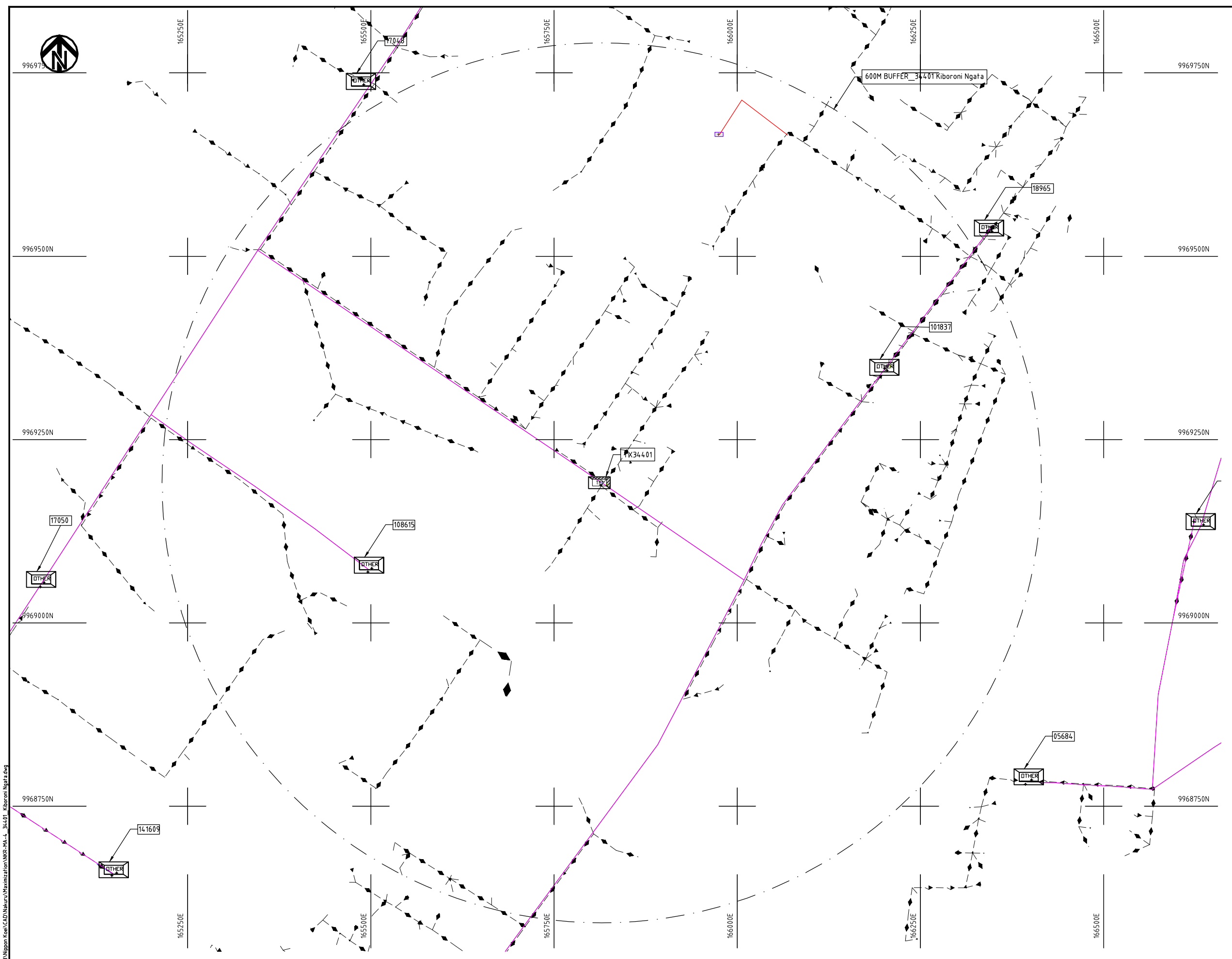


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| PROJECT: THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA | DRAWING TITLE | | DRAW. NO. | PREPARED BY | A.AKBAR |
| | COUNTY: NAKURU SCHEME: MAXIMIZATION PROJECT SITE: 35938 - UPPERHILL ESTATE | | 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.

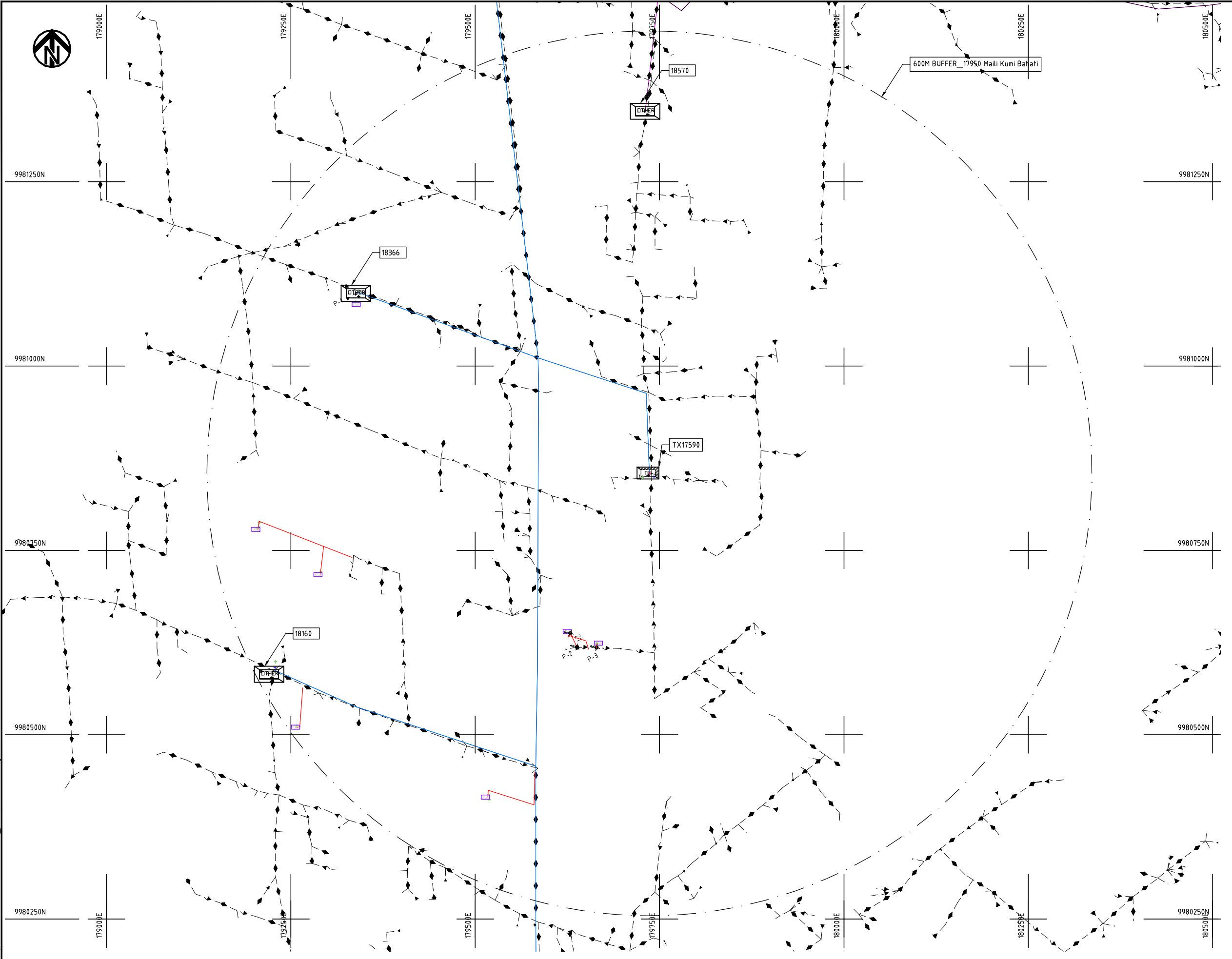
- LEGEND**
- HOUSEHOLDS/ BUILDINGS
 - PROPOSED DISTRIBUTION LINE
 - EXISTING 11kV LINE
 - EXISTING 33kV LINE
 - EXISTING DISTRIBUTION LINE
 - MAXIMISATION TRANSFORMER
 - EXTENSION TRANSFORMER
 - OTHER EXISTING TRANSFORMER
 - WOODEN ELECTRIC POLES
 - CONCRETE ELECTRIC POLES
 - LV-EARTH
 - PME -PROTECTIVE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

SCALE 1: 5000 (A3)

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

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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-4 | CHECKED BY | S.MAETA |
| SCHEME: MAXIMIZATION | | APPROVED BY | | Y.TANAKA | |
| PROJECT SITE: 344.01 - KIROBONI NGATA | | DATE | | 10th SEP 2018 | |



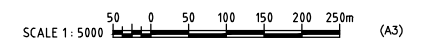


NOTES:

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



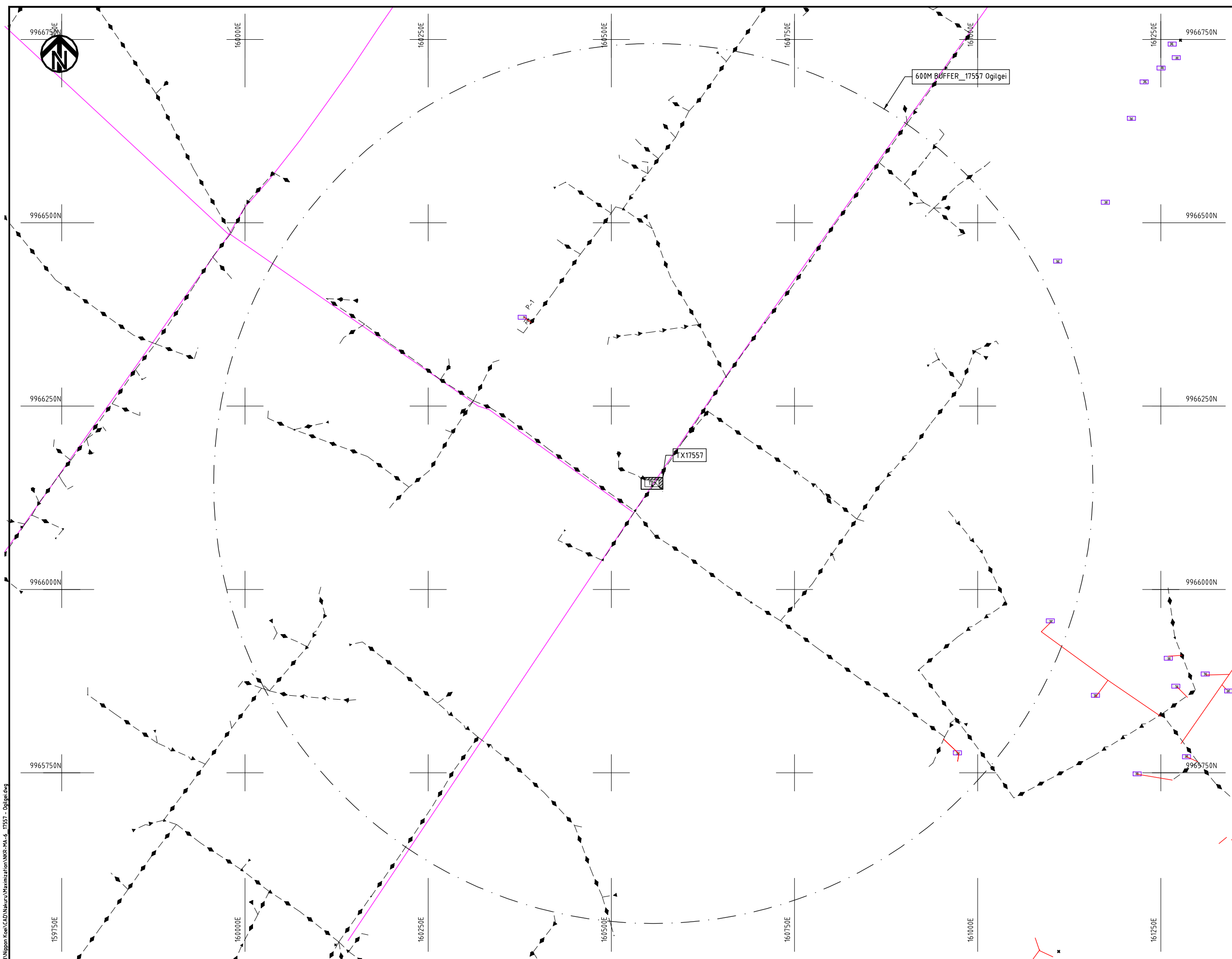
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PROJECT:
**THE PREPARATORY SURVEY
 ON THE PROJECT FOR IMPROVEMENT
 OF POWER DISTRIBUTION SYSTEM
 IN THE REPUBLIC OF KENYA**

DRAWING TITLE
 COUNTY: NAKURU
 SCHEME: MAXIMIZATION
 PROJECT SITE: 17590-Maili Kumi Bahati

| | | |
|-----------------------|-------------|---------------|
| DRAW. NO. NKR-MA-5 | PREPARED BY | A.AKBAR |
| | CHECKED BY | S.MAETA |
| | APPROVED BY | Y.TANAKA |
| | DATE | 10th SEP 2018 |

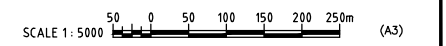




- NOTES:**
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.

LEGEND

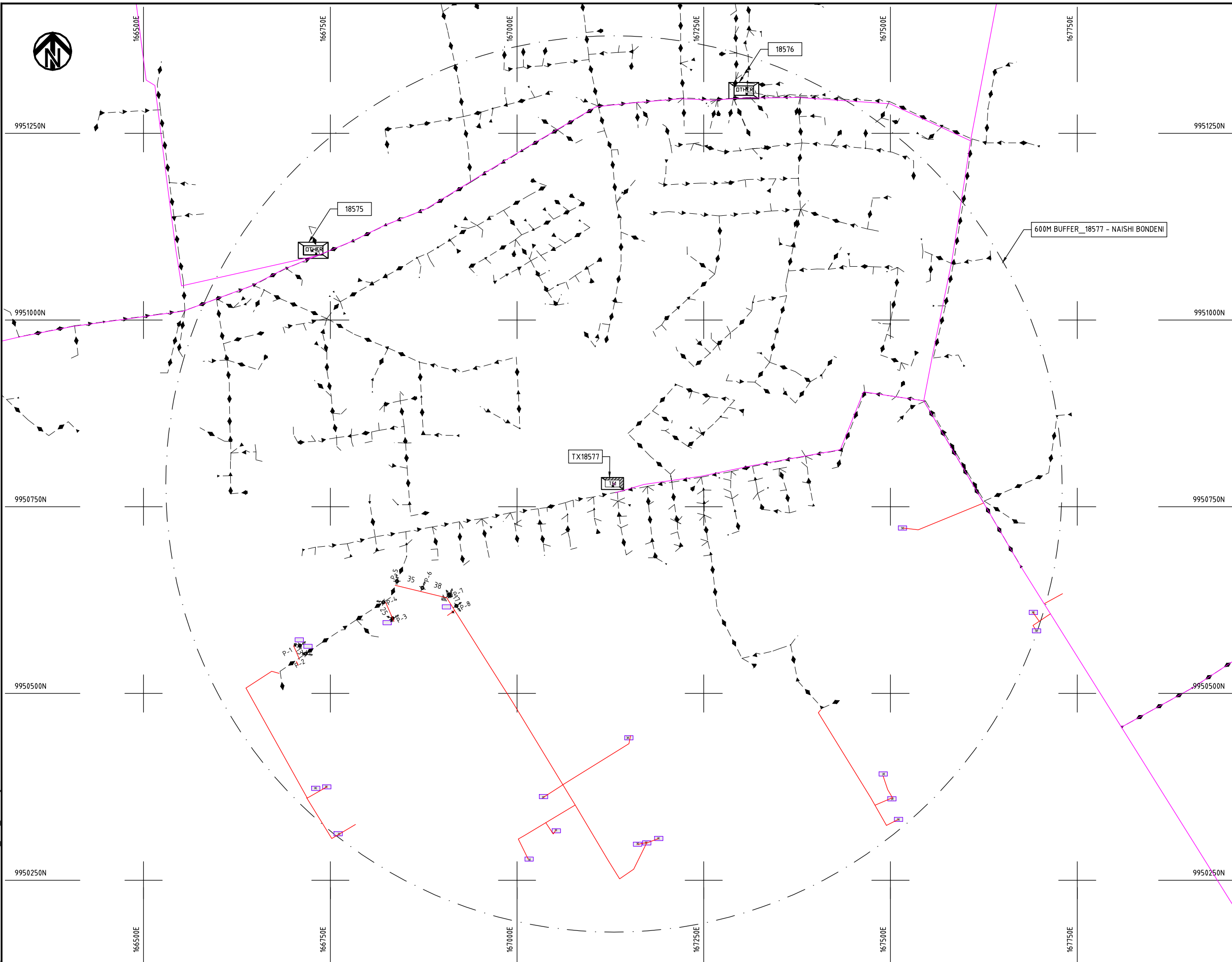
- HOUSEHOLDS/ BUILDINGS
- PROPOSED 11kV
- PROPOSED 33kV
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES 12M
- CONCRETE ELECTRIC POLES 11M
- LV-EARTH
- 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 SCHEME: MAXIMIZATION PROJECT SITE: 17557-OGILGEI | NKR-MA-6 | CHECKED BY | S.MAETA |
| | | | | APPROVED BY | Y.TANAKA |
| | | | | DATE | 10th SEP 2018 |



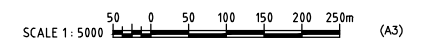


NOTES:

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

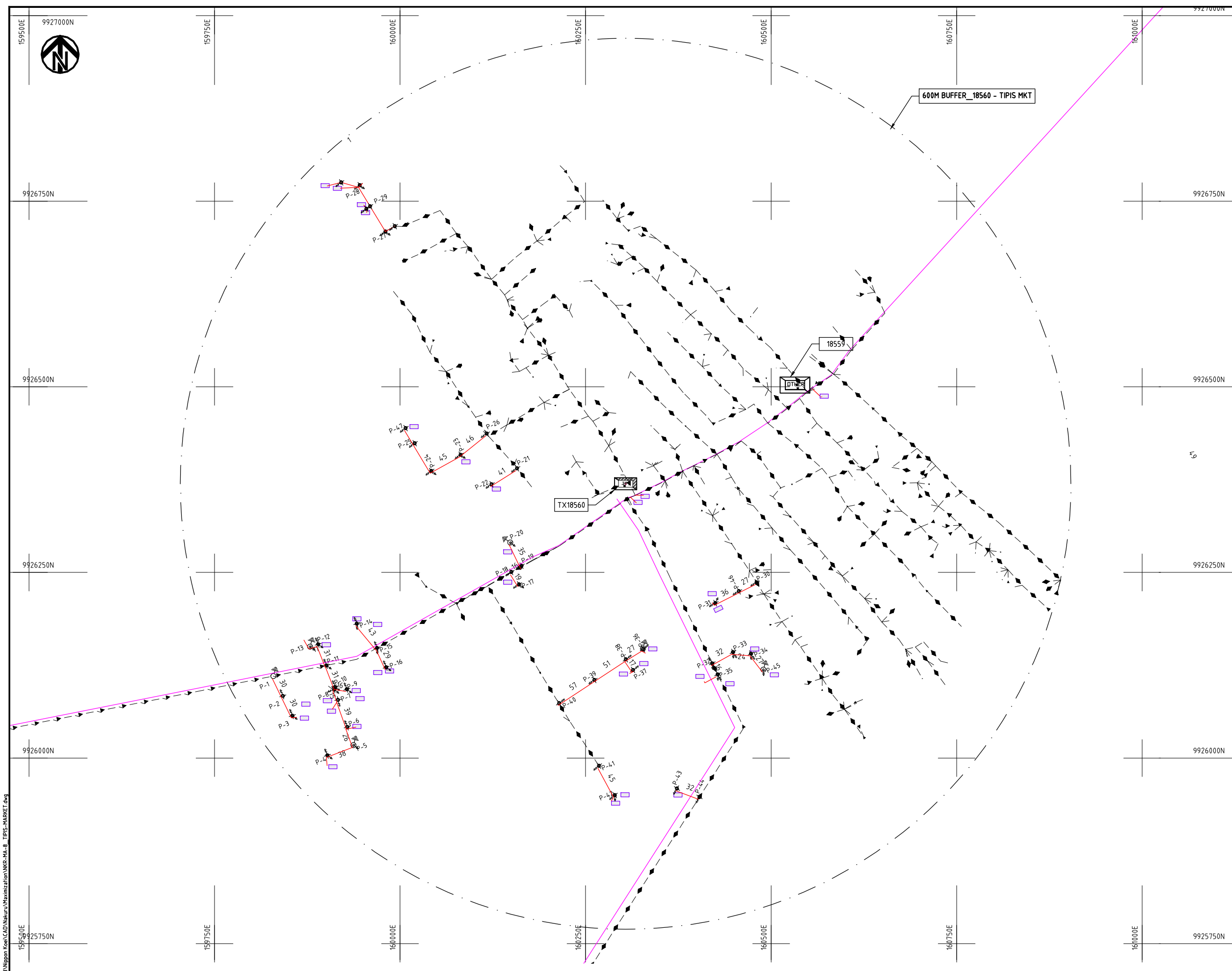
- HOUSEHOLDS/ BUILDINGS
- PROPOSED 11kV
- PROPOSED 33kV
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES 12M
- CONCRETE ELECTRIC POLES 11M
- LV-EARTH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



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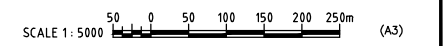
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| PROJECT: THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA | DRAWING TITLE COUNTY: NAKURU SCHEME: MAXIMIZATION PROJECT SITE: 18577-NAISHI BONDENI | DRAW. NO. NKR-MA-7 | PREPARED BY A.AKBAR | 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.

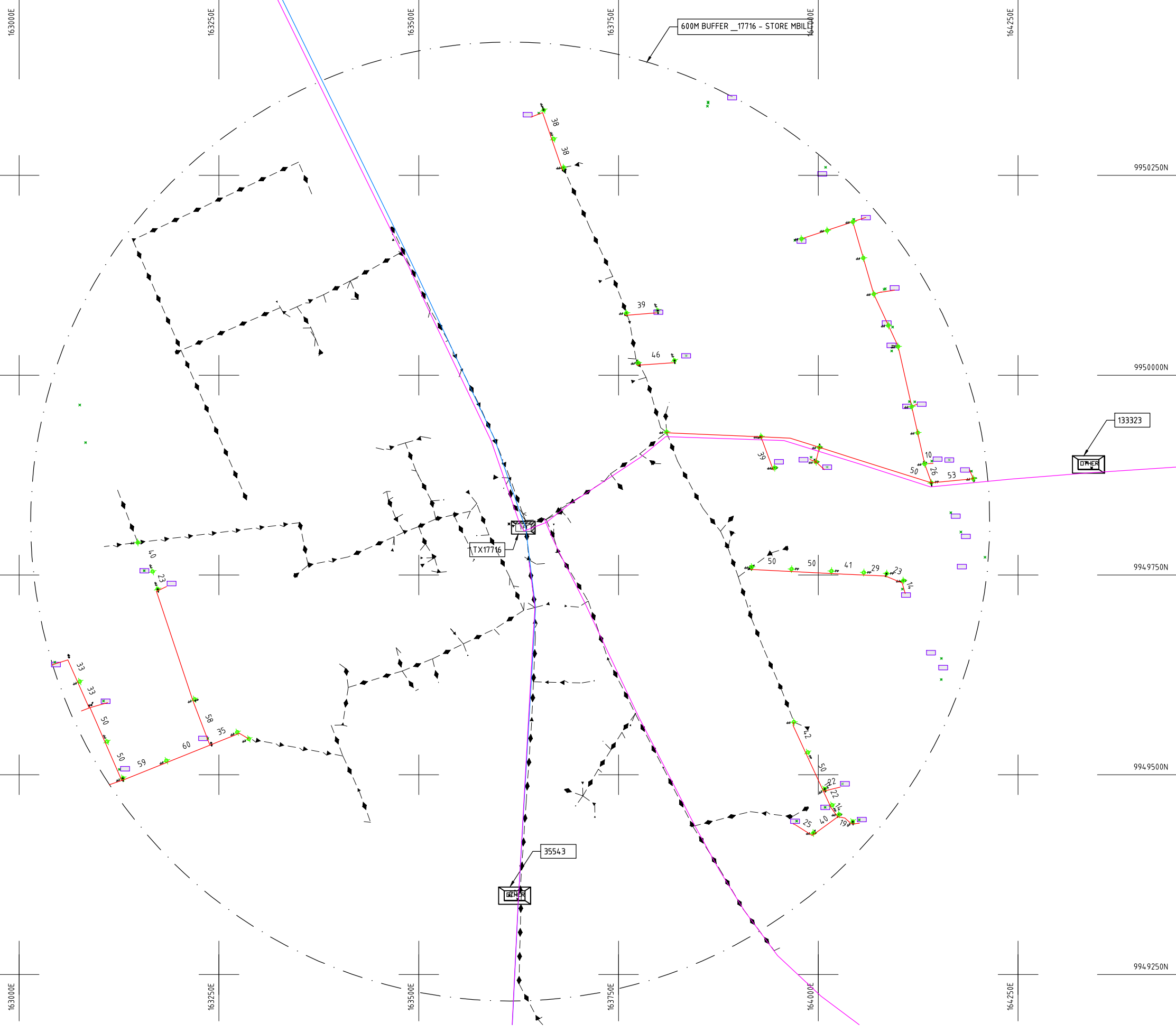
- LEGEND**
- HOUSEHOLDS/ BUILDINGS
 - PROPOSED DISTRIBUTION LINE
 - EXISTING 11kV LINE
 - EXISTING 33kV LINE
 - EXISTING DISTRIBUTION LINE
 - MAXIMISATION TRANSFORMER
 - EXTENSION TRANSFORMER
 - OTHER EXISTING TRANSFORMER
 - WOODEN ELECTRIC POLES
 - CONCRETE ELECTRIC POLES
 - LV-EARTH
 - PME -PROTECTIVE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



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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: 18560-TIPIS MARKET | | NKR-MA-8 | CHECKED BY | S.MAETA |
| | | | | APPROVED BY | Y.TANAKA |
| | | | | DATE | 10th SEP 2018 |

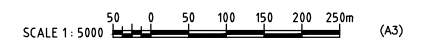


**NOTES:**

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

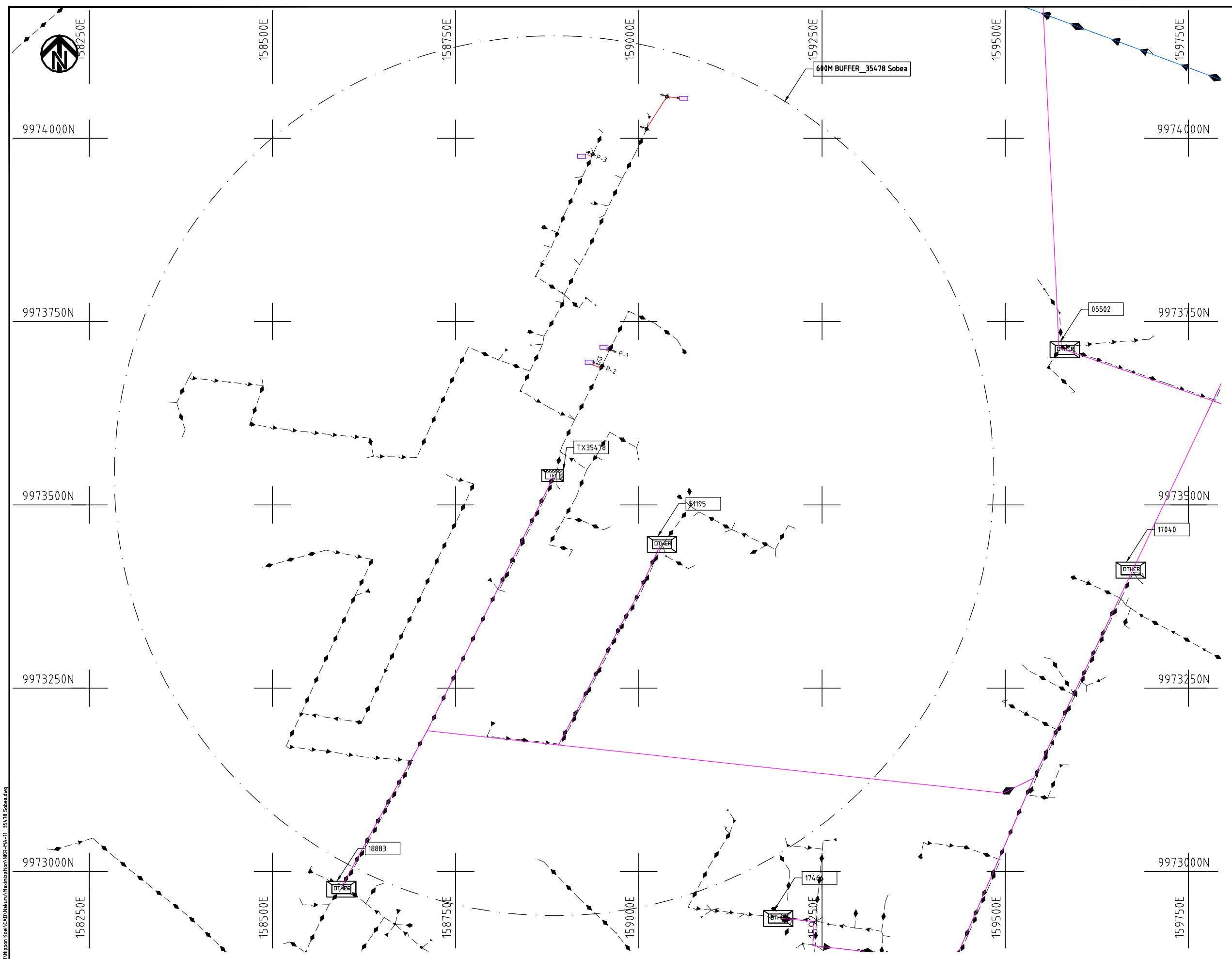
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- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- OTHER EXISTING TRANSFORMER
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES
- LV-EARTH
- PME -PROTECTIVE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



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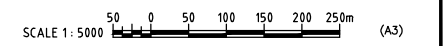
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| PROJECT: THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA | DRAWING TITLE COUNTY: NAKURU SCHEME: MAXIMIZATION PROJECT SITE: 17716 - STORE MBILI | DRAW. NO. NKR-MA-9 | PREPARED BY A.AKBAR 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.
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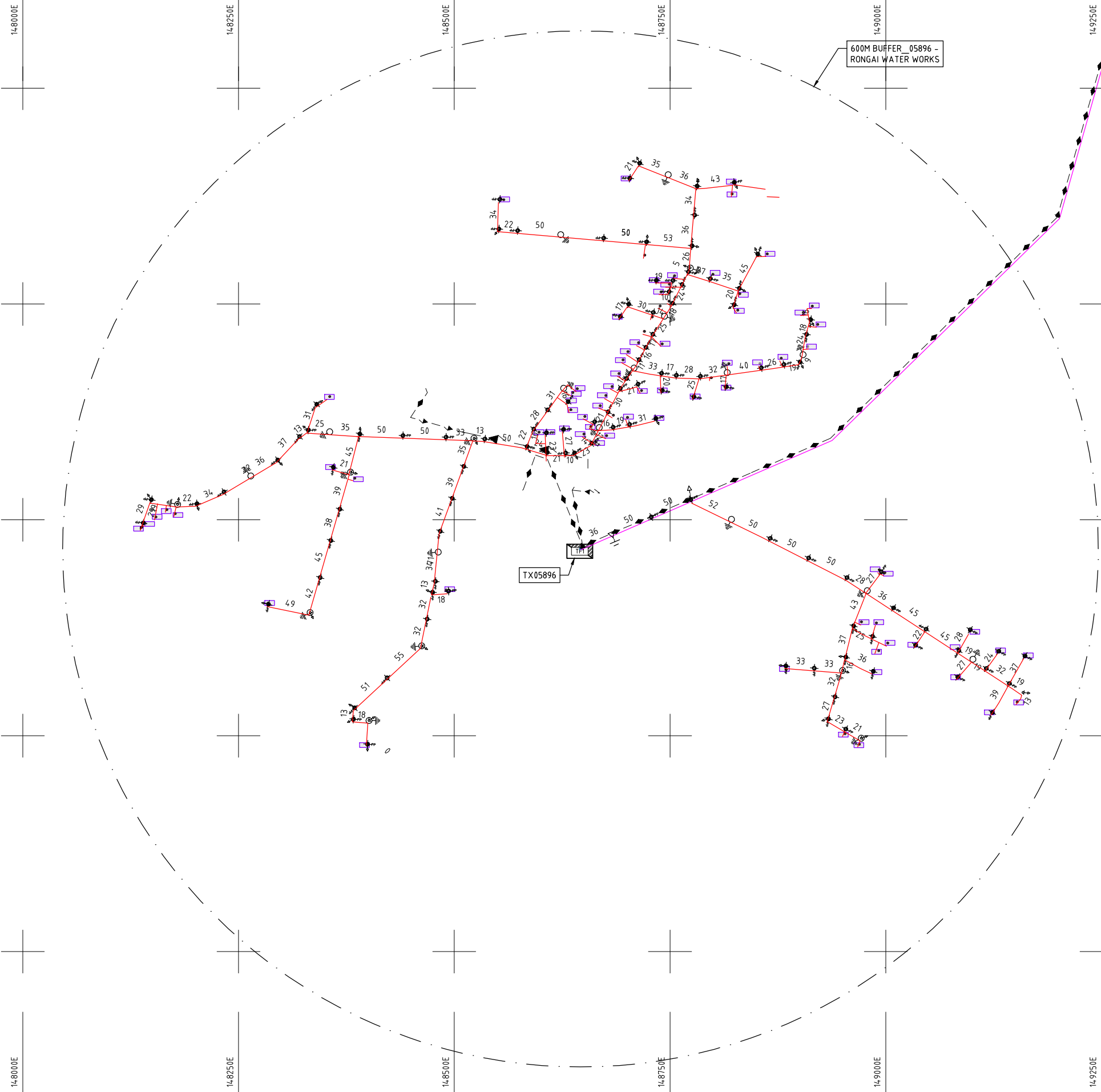
- LEGEND**
- HOUSEHOLDS/ BUILDINGS
 - PROPOSED DISTRIBUTION LINE
 - EXISTING 11kV LINE
 - EXISTING 33kV LINE
 - EXISTING DISTRIBUTION LINE
 - MAXIMISATION TRANSFORMER
 - EXTENSION TRANSFORMER
 - OTHER EXISTING TRANSFORMER
 - WOODEN ELECTRIC POLES
 - CONCRETE ELECTRIC POLES
 - LV-EARTH
 - PME -PROTECTIVE MULTIPLE EARTHING
 - STAY



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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: 35478 SOBEA | | NKR-MA-11 | CHECKED BY | S.MAETA |
| | | | | APPROVED BY | Y.TANAKA |
| | | | | DATE | 10th SEP 2018 |



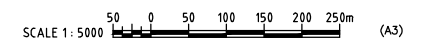


NOTES:

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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

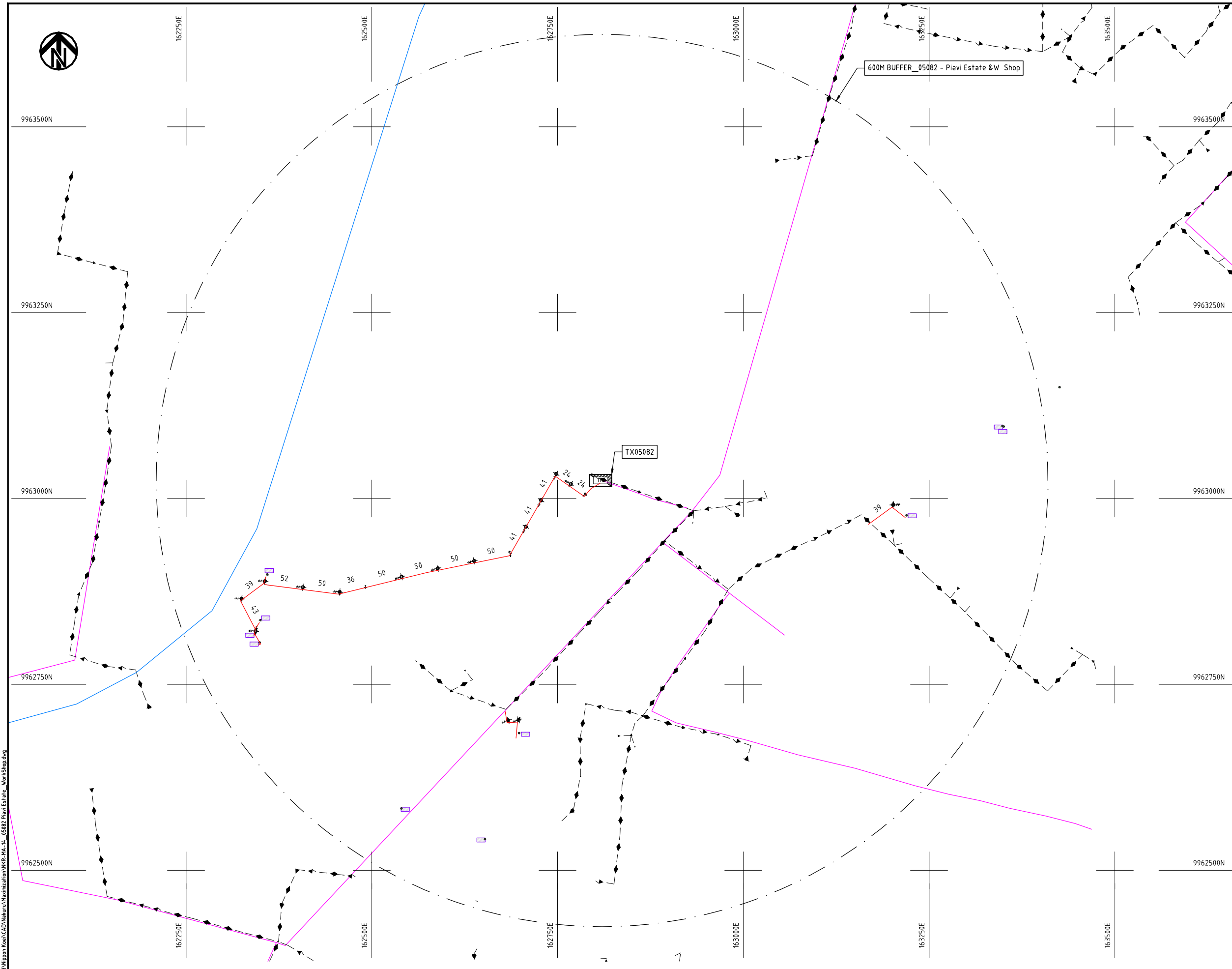
- HOUSEHOLDS/ BUILDINGS
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- OTHER EXISTING TRANSFORMER
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING
- 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: 05896-RONGAI WATER WORKS | | NKR-MA-13 | CHECKED BY | S.MAETA |
| | | | | APPROVED BY | Y.TANAKA |
| | | | | DATE | 10th SEP 2018 |



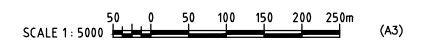


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1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
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4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.
5. POLES NOT SHOWN WHERE PME OR LV EARTH INTERSECT FOR CLARITY.

LEGEND

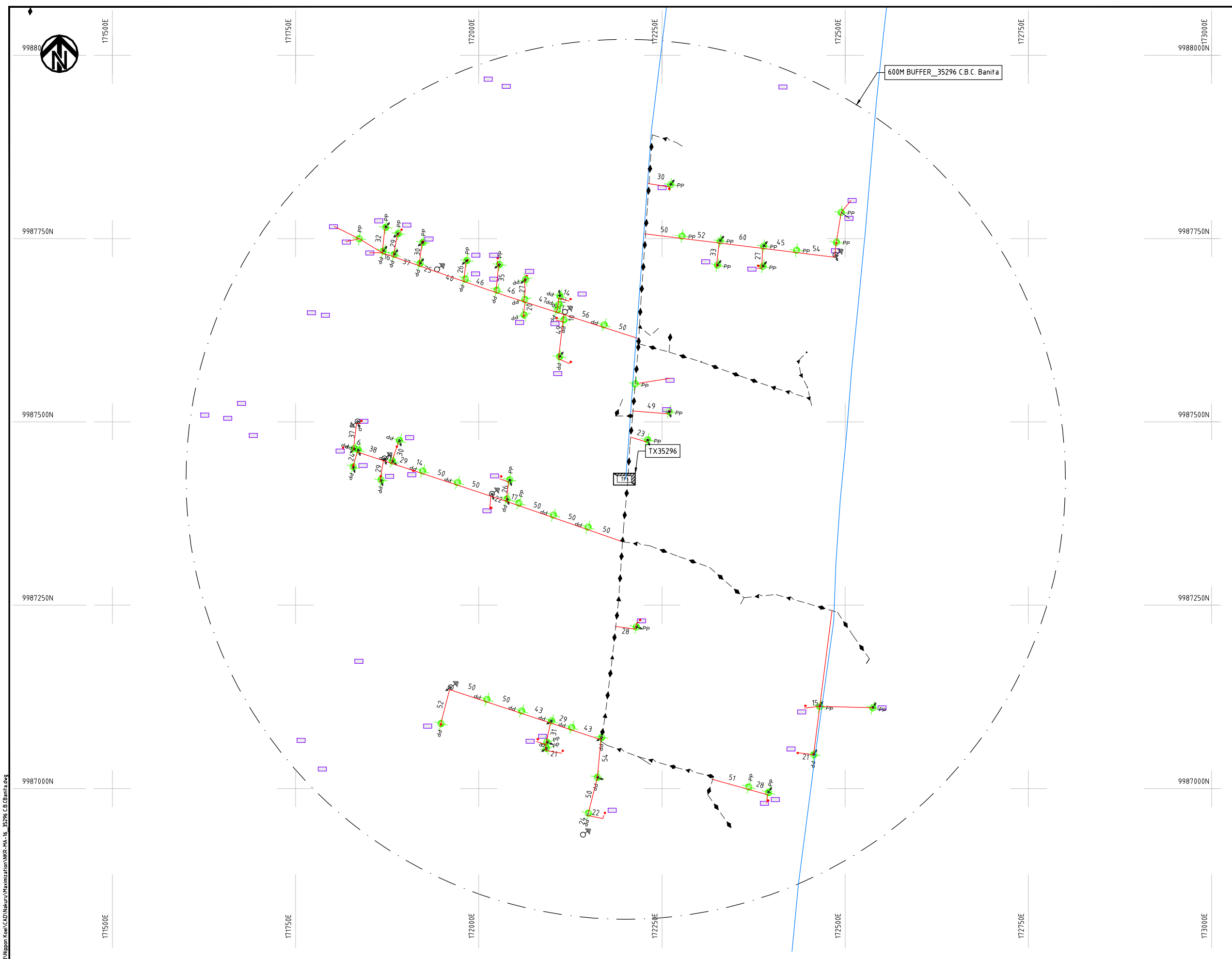
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- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- OTHER EXISTING TRANSFORMER
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES
- LV-EARTH
- PME -PROTECTIVE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



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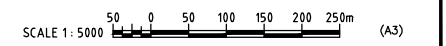
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| PROJECT: THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA | DRAWING TITLE | | DRAW. NO. | PREPARED BY | A.AKBAR |
| | COUNTY: NAKURU SCHEME: MAXIMIZATION PROJECT SITE: 05082 PIAVI ESTATE 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.

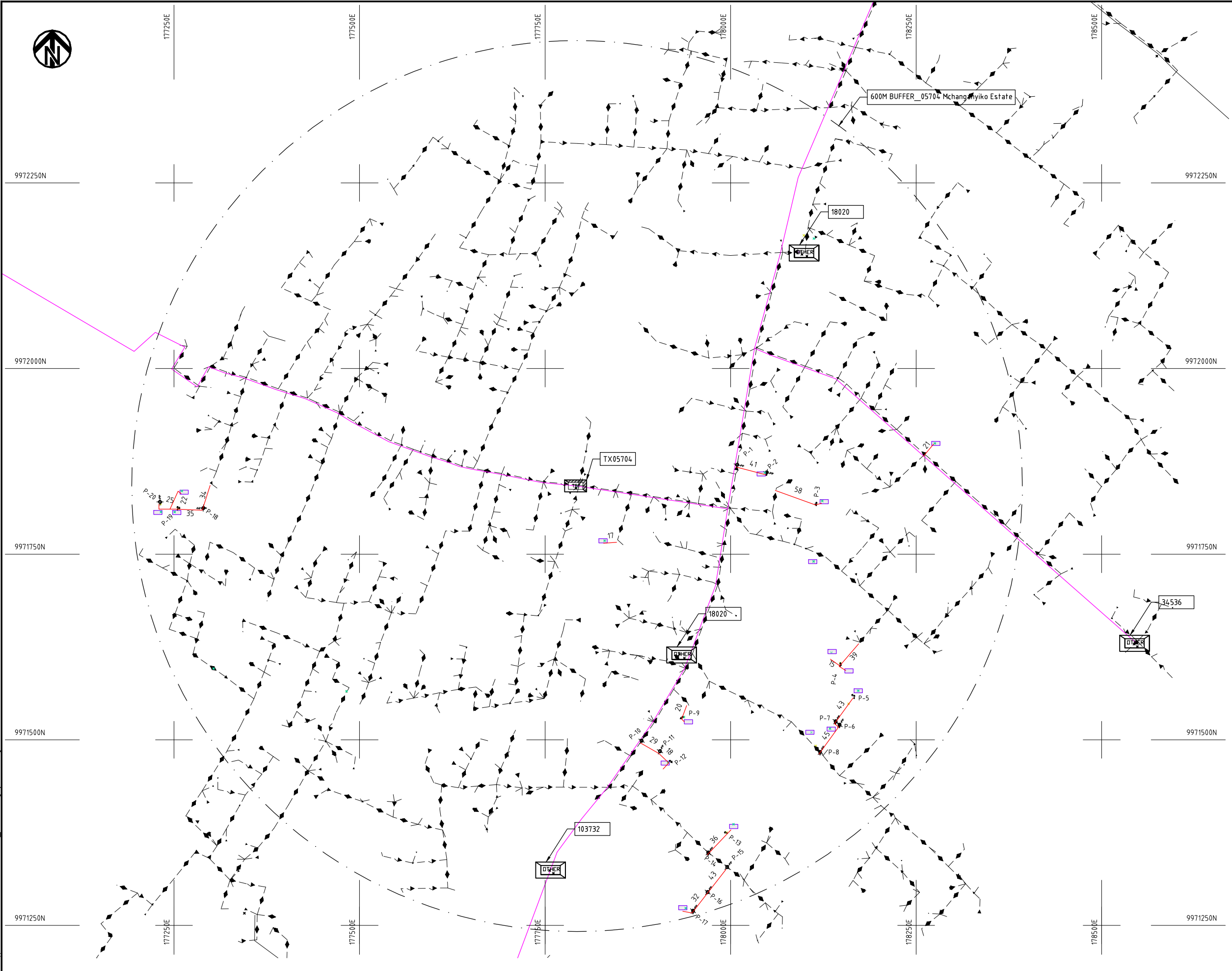
- LEGEND**
- HOUSEHOLDS/ BUILDINGS
 - PROPOSED DISTRIBUTION LINE
 - EXISTING 11kV LINE
 - EXISTING 33kV LINE
 - EXISTING DISTRIBUTION LINE
 - MAXIMISATION TRANSFORMER
 - EXTENSION TRANSFORMER
 - OTHER EXISTING TRANSFORMER
 - PP WOODEN ELECTRIC POLES
 - CP CONCRETE ELECTRIC POLES
 - LV-EARTH
 - PME -PROTECTIVE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



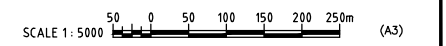
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|--|----------------------------------|--|-----------|-------------|---------------|
| PROJECT: THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA | DRAWING TITLE | | DRAW. NO. | PREPARED BY | A.AKBAR |
| | COUNTY: 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 |





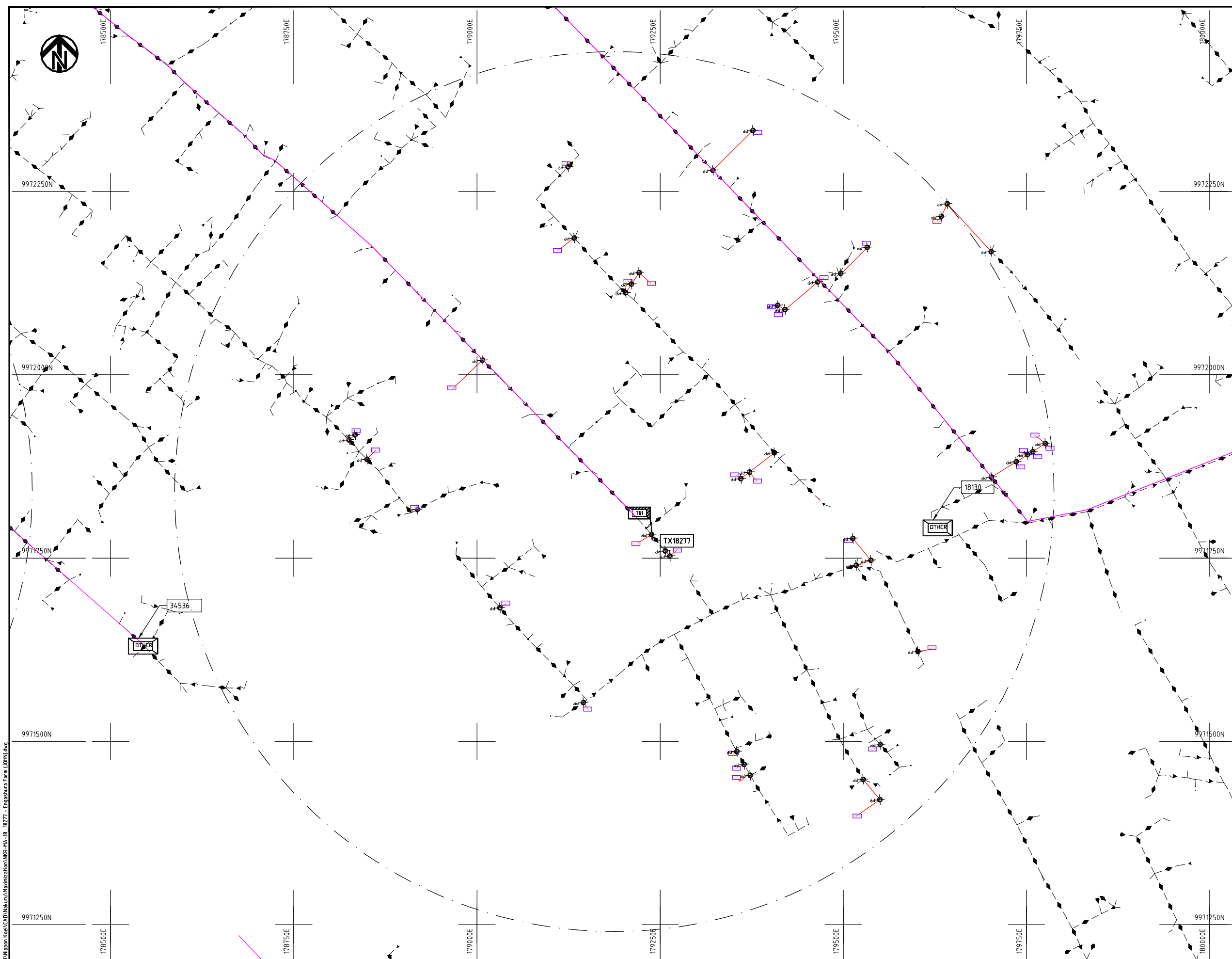
- LEGEND**
- HOUSEHOLDS/ BUILDINGS
 - PROPOSED DISTRIBUTION LINE
 - EXISTING 11kV LINE
 - EXISTING 33kV LINE
 - EXISTING DISTRIBUTION LINE
 - MAXIMISATION TRANSFORMER
 - EXTENSION TRANSFORMER
 - OTHER EXISTING TRANSFORMER
 - PP WOODEN ELECTRIC POLES
 - CP CONCRETE ELECTRIC POLES
 - LV-EARTH
 - PME -PROTECTIVE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



Caf File No. D:\Frank-Proj\2018\Nippon Koei\CAD\Nakuru\Maximization\NKR-MA-17_05704 - Mchanganyiko Estate.dwg

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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-17 | CHECKED BY | S.MAETA |
| | SCHEME: MAXIMIZATION | | | APPROVED BY | Y.TANAKA |
| | PROJECT SITE: 05704 - MCHANGANYIKO ESTATE | | | 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

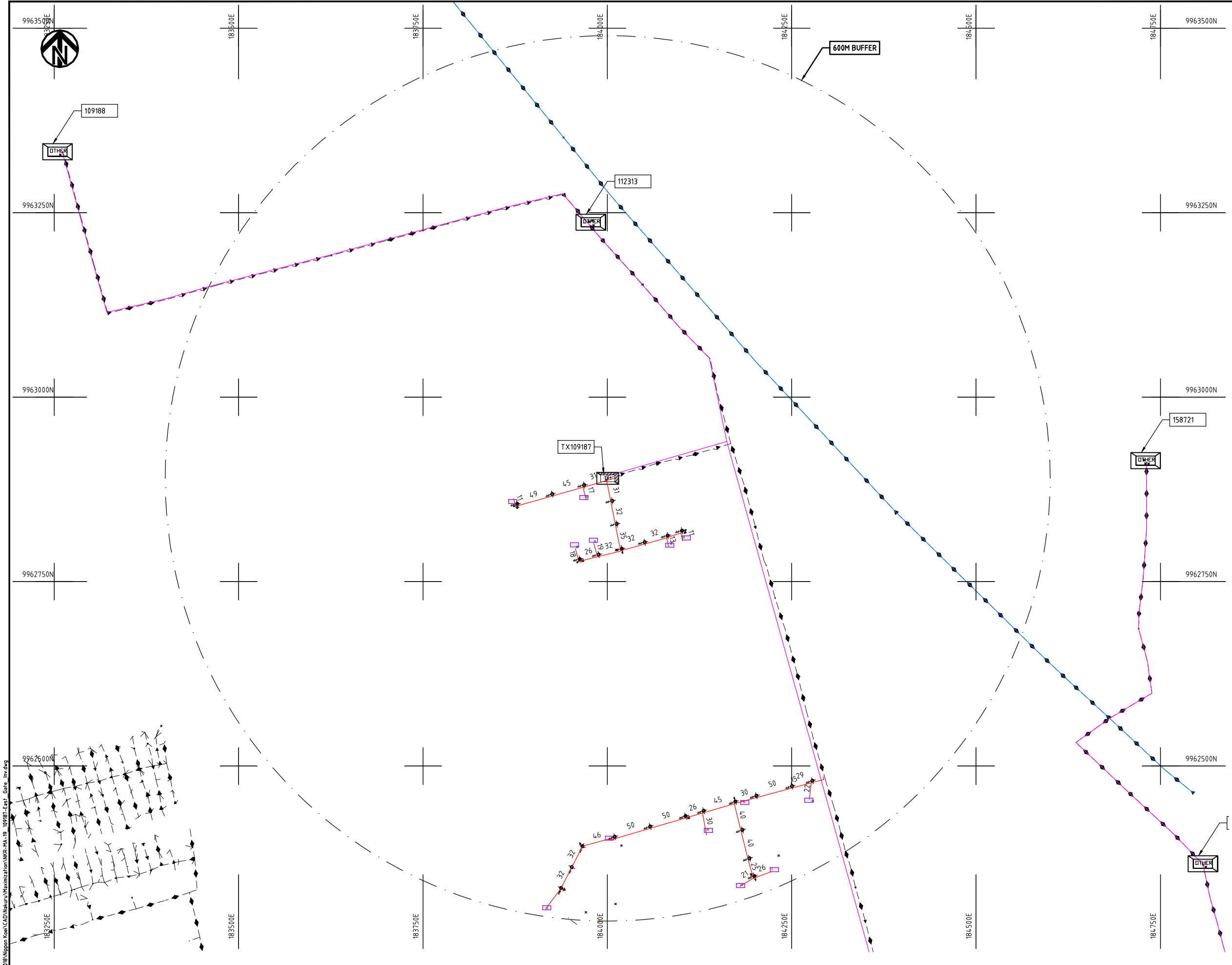
- HOUSEHOLDS/ BUILDINGS
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- OTHER EXISTING TRANSFORMER
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING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

SCALE 1: 5000 (A3)

Caf File No. D:\Frank-Proj\2018\Nippon Coe\CAD\Nakuru\Maximization\NKR-MA-18_18277 - Engashura Farm (JOHN).dwg

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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: 18277_Engashura Farm(JOHN) | NKR-MA-18 | CHECKED BY | S.MAETA |
| | | | | APPROVED BY | Y.TANAKA |
| | | | | DATE | 10th SEP 2018 |

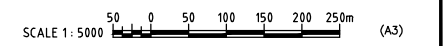




- NOTES:**
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.

LEGEND

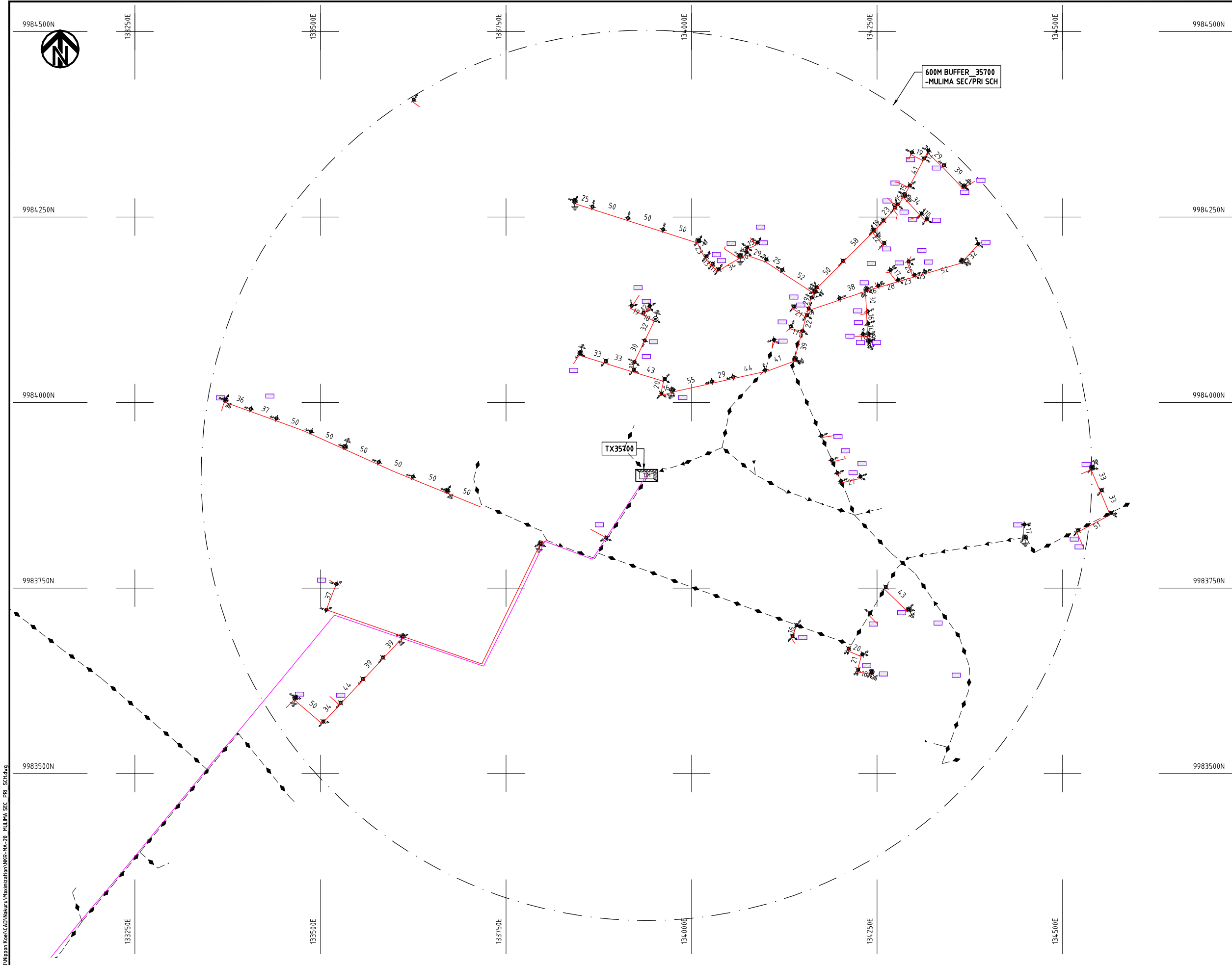
- HOUSEHOLDS/ BUILDINGS
- PROPOSED 11kV
- PROPOSED 33kV
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES 12M
- CONCRETE ELECTRIC POLES 11M
- LV-EARTH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



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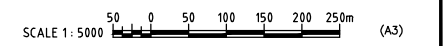
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|--|---|--|-----------|-------------|---------------|
| PROJECT: THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA | DRAWING TITLE | | DRAW. NO. | PREPARED BY | A.AKBAR |
| | COUNTY: NAKURU SCHEME: MAXIMIZATION PROJECT SITE: 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.

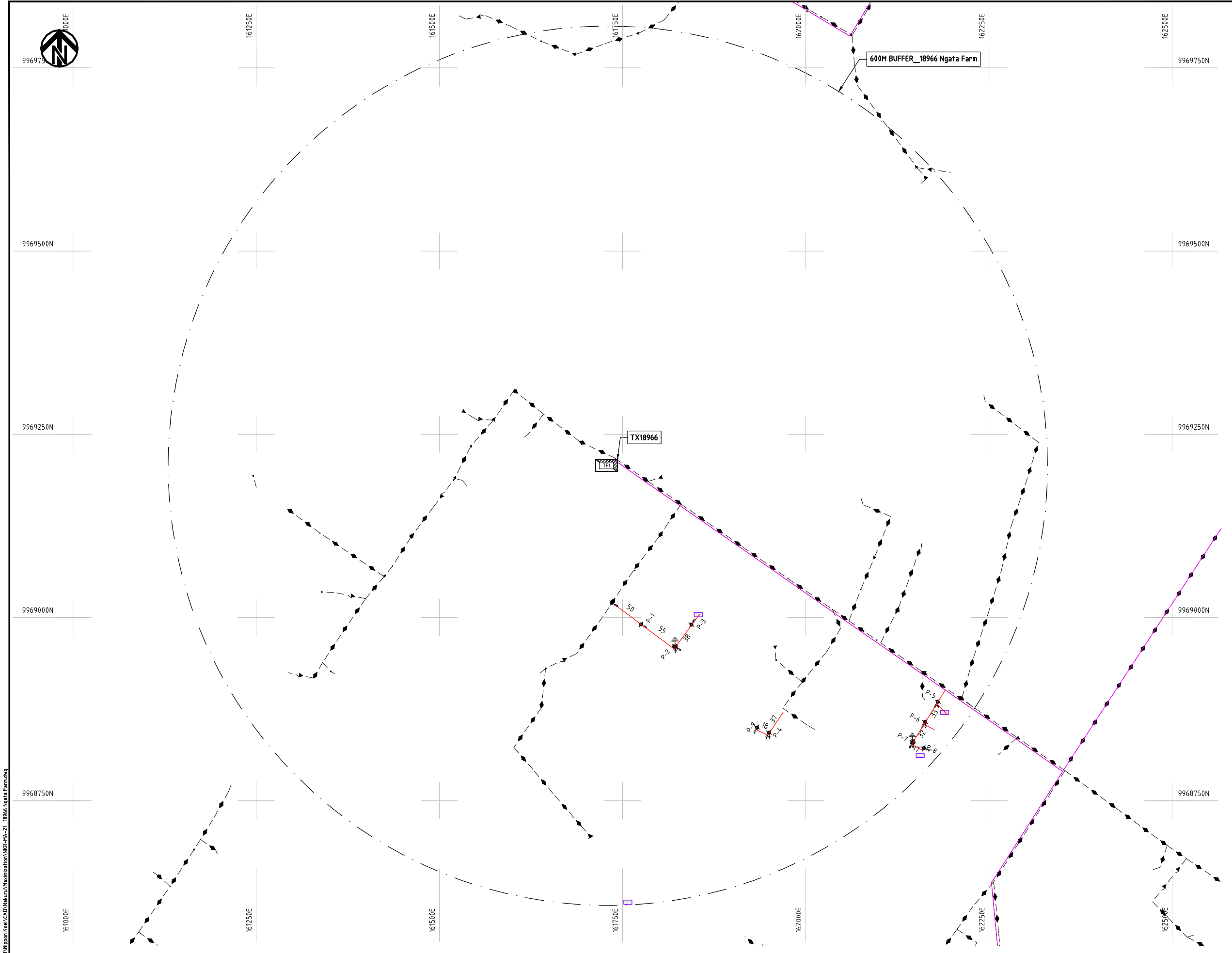
- LEGEND**
- HOUSEHOLDS/ BUILDINGS
 - PROPOSED DISTRIBUTION LINE
 - EXISTING 11kV LINE
 - EXISTING 33kV LINE
 - EXISTING DISTRIBUTION LINE
 - MAXIMISATION TRANSFORMER
 - EXTENSION TRANSFORMER
 - OTHER EXISTING TRANSFORMER
 - WOODEN ELECTRIC POLES
 - CONCRETE ELECTRIC POLES
 - LV-EARTH
 - PME -PROTECTIVE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



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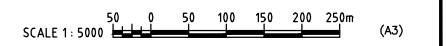
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|--|---|--|-----------|-------------|---------------|
| PROJECT: THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA | DRAWING TITLE | | DRAW. NO. | PREPARED BY | A.AKBAR |
| | COUNTY: NAKURU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





- 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



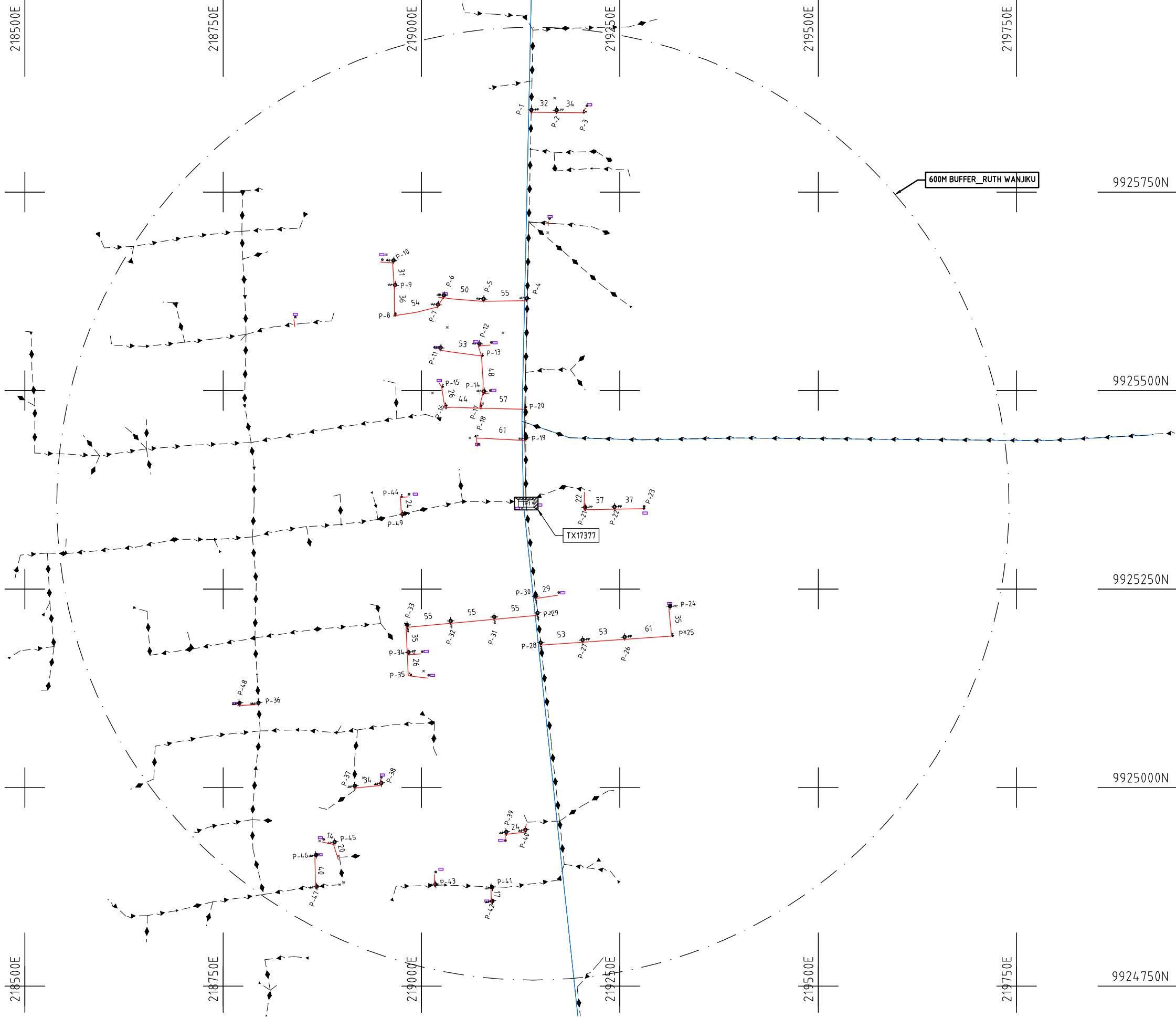
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PROJECT:
**THE PREPARATORY SURVEY
 ON THE PROJECT FOR IMPROVEMENT
 OF POWER DISTRIBUTION SYSTEM
 IN THE REPUBLIC OF KENYA**

DRAWING TITLE
 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 |

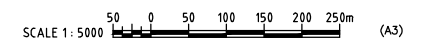


**NOTES:**

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



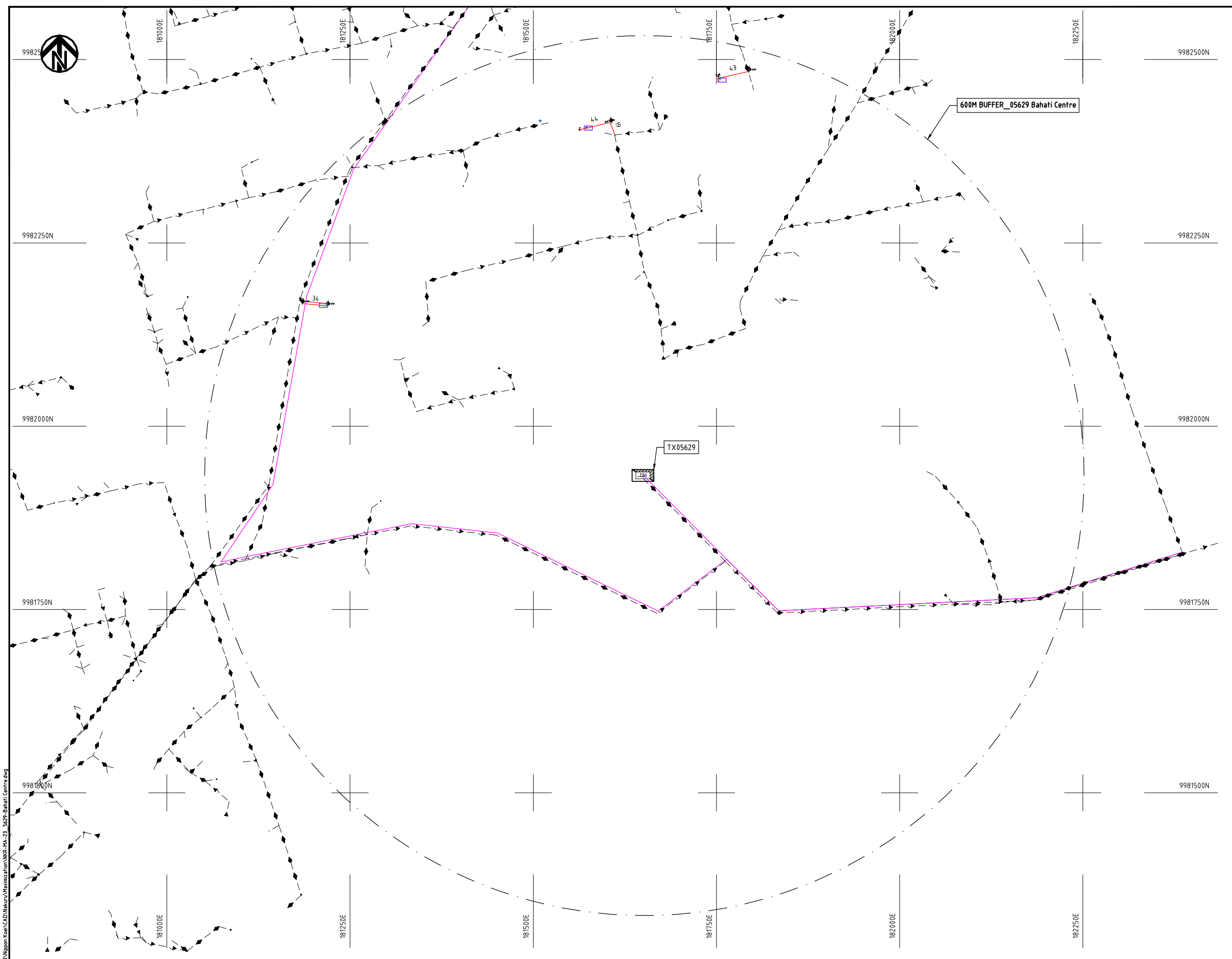
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PROJECT:
**THE PREPARATORY SURVEY
 ON THE PROJECT FOR IMPROVEMENT
 OF POWER DISTRIBUTION SYSTEM
 IN THE REPUBLIC OF KENYA**

DRAWING TITLE
 COUNTY: NAKURU
 SCHEME: MAXIMIZATION
 PROJECT SITE: 17377 RUTH WANJIKU

| | | |
|-----------|-------------|---------------|
| DRAW. NO. | PREPARED BY | A.AKBAR |
| 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

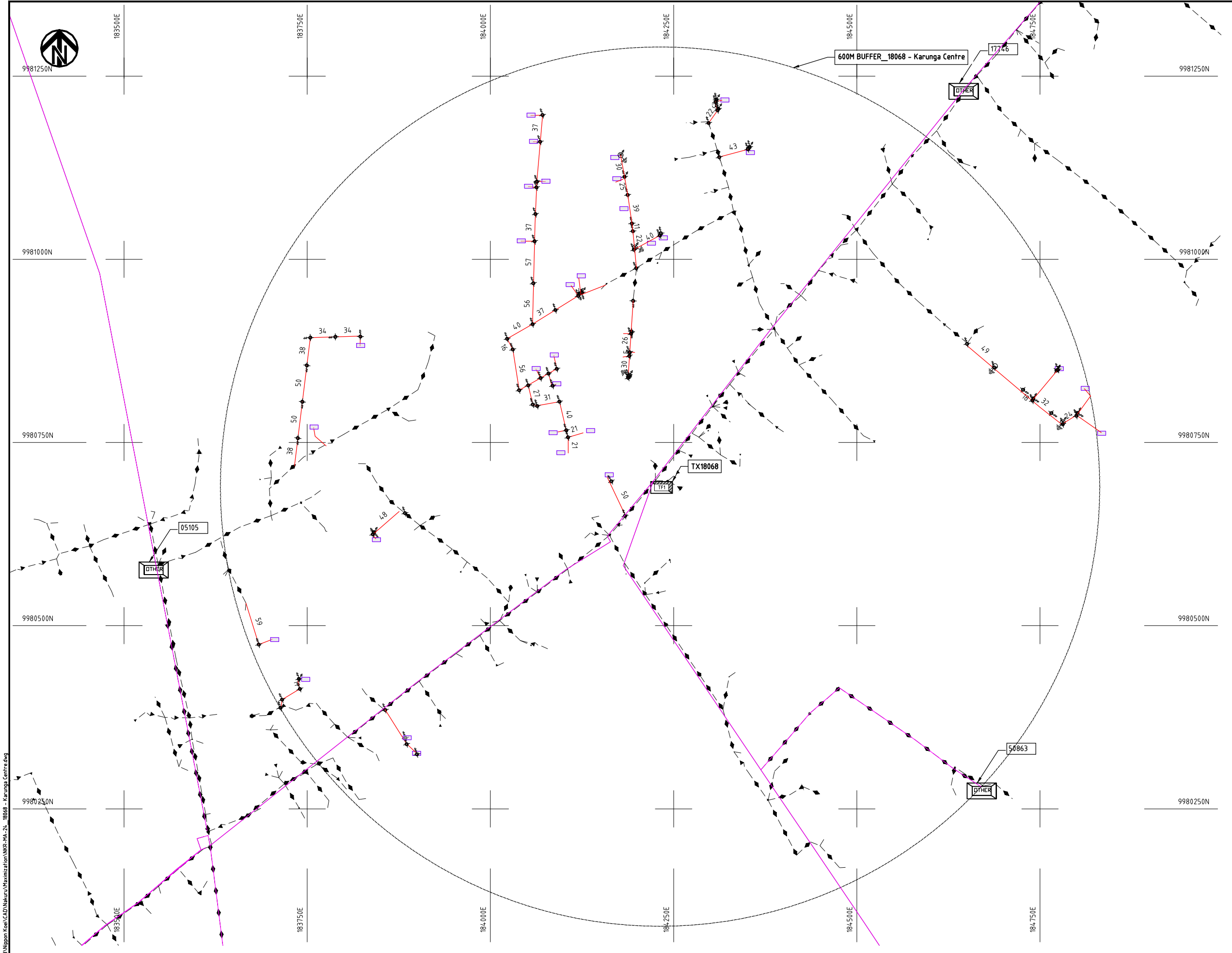
- HOUSEHOLDS/ BUILDINGS
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- OTHER EXISTING TRANSFORMER
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING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

SCALE 1: 5000 (A3)

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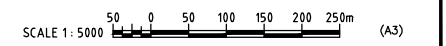
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|--|----------------|-------------|-----------|---------------|---------|
| PROJECT: THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA | DRAWING TITLE | | DRAW. NO. | PREPARED BY | A.AKBAR |
| | COUNTY: NAKURU | | NKR-MA-23 | CHECKED BY | S.MAETA |
| SCHEME: MAXIMIZATION | | APPROVED BY | | Y.TANAKA | |
| PROJECT SITE: 05629-BAHATI CENTRE | | 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.

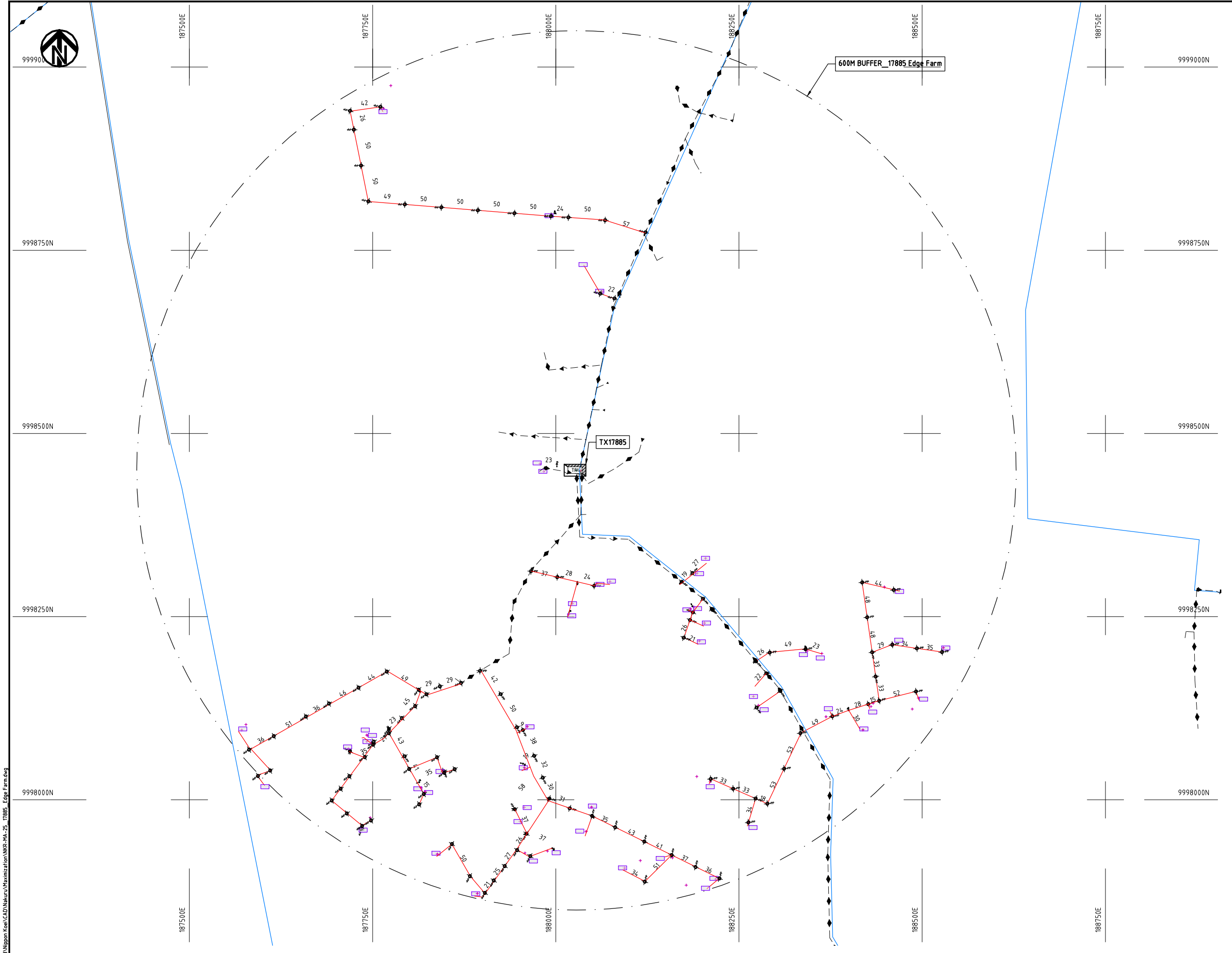
- LEGEND**
- HOUSEHOLDS/ BUILDINGS
 - PROPOSED DISTRIBUTION LINE
 - EXISTING 11kV LINE
 - EXISTING 33kV LINE
 - EXISTING DISTRIBUTION LINE
 - MAXIMISATION TRANSFORMER
 - EXTENSION TRANSFORMER
 - OTHER EXISTING TRANSFORMER
 - WOODEN ELECTRIC POLES
 - CONCRETE ELECTRIC POLES
 - LV-EARTH
 - PME -PROTECTIVE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



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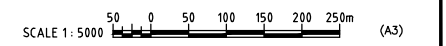
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|--|--|--|-----------|-------------|---------------|
| PROJECT: THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA | DRAWING TITLE | | DRAW. NO. | PREPARED BY | A.AKBAR |
| | COUNTY: NAKURU SCHEME: MAXIMIZATION PROJECT SITE: 18068 - KARUNGA CENTRE | | NKR-MA-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.
 5. POLES NOT SHOWN WHERE PME OR LV EARTH INTERSECT FOR CLARITY.

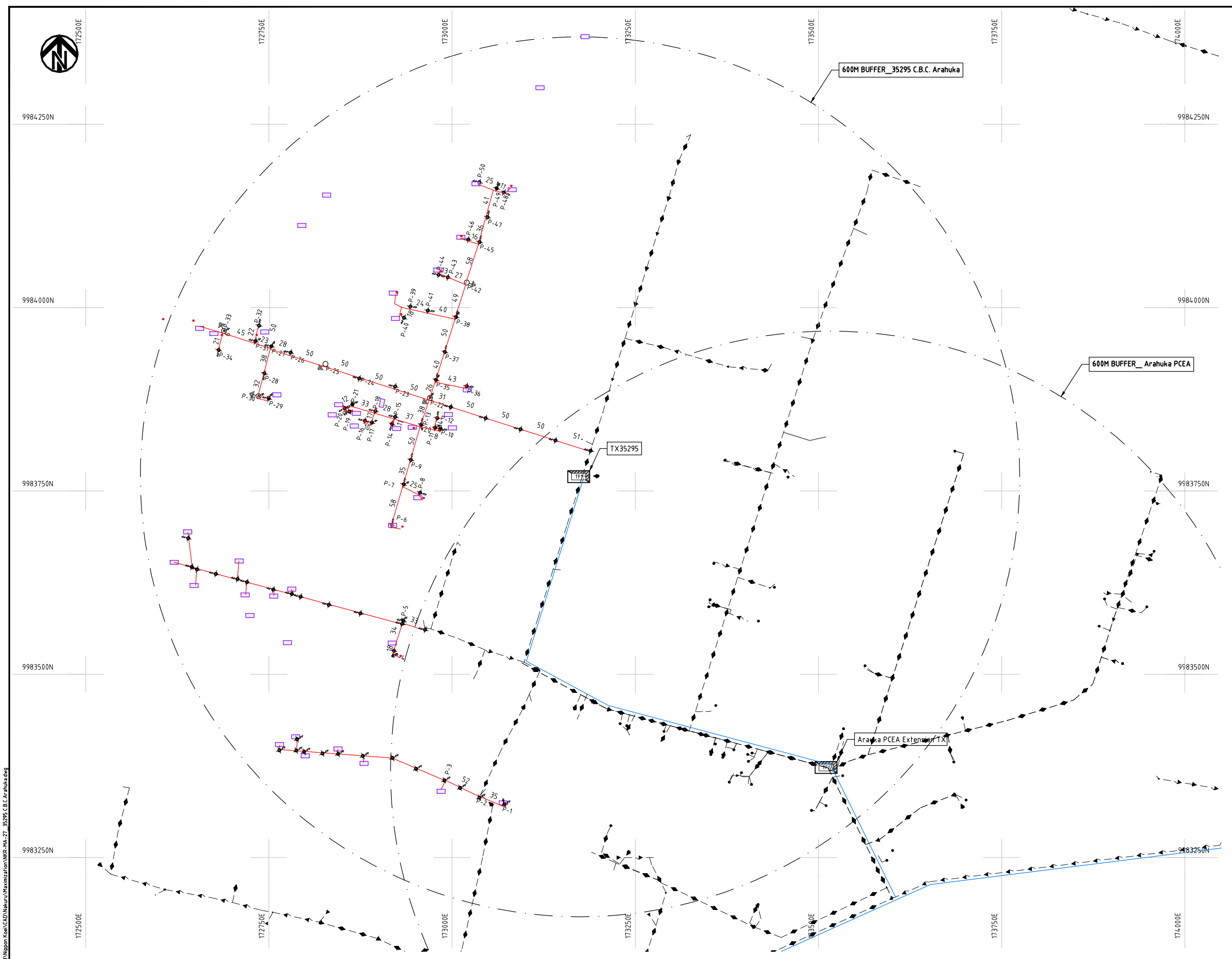
- LEGEND**
- HOUSEHOLDS/ BUILDINGS
 - PROPOSED DISTRIBUTION LINE
 - EXISTING 11kV LINE
 - EXISTING 33kV LINE
 - EXISTING DISTRIBUTION LINE
 - MAXIMISATION TRANSFORMER
 - EXTENSION TRANSFORMER
 - OTHER EXISTING TRANSFORMER
 - WOODEN ELECTRIC POLES
 - CONCRETE ELECTRIC POLES
 - LV-EARTH
 - PME -PROTECTIVE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



Csd File No. D:\Frank-Proj\2018\Nippon Koei\CAD\Nakuru\Maximization\NKR-MA-25_17885_Edge Farm.dwg

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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: 17885_EDGE FARM | | NKR-MA-25 | CHECKED BY | S.MAETA |
| | | | | APPROVED BY | Y.TANAKA |
| | | | | DATE | 10th SEP 2018 |



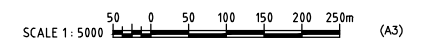


NOTES:

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



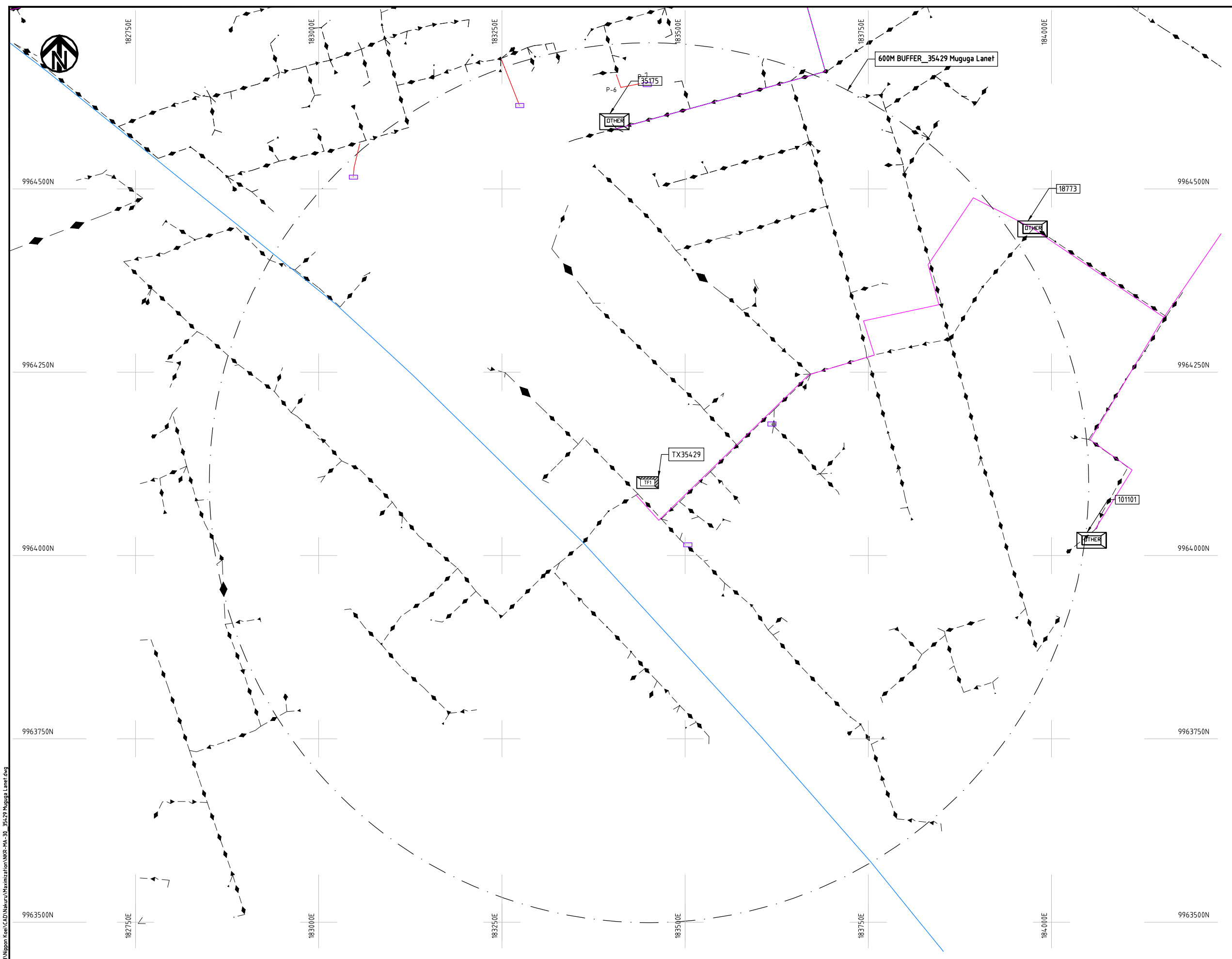
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PROJECT:
**THE PREPARATORY SURVEY
 ON THE PROJECT FOR IMPROVEMENT
 OF POWER DISTRIBUTION SYSTEM
 IN THE REPUBLIC OF KENYA**

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

| | | |
|-----------|-------------|---------------|
| DRAW. NO. | 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

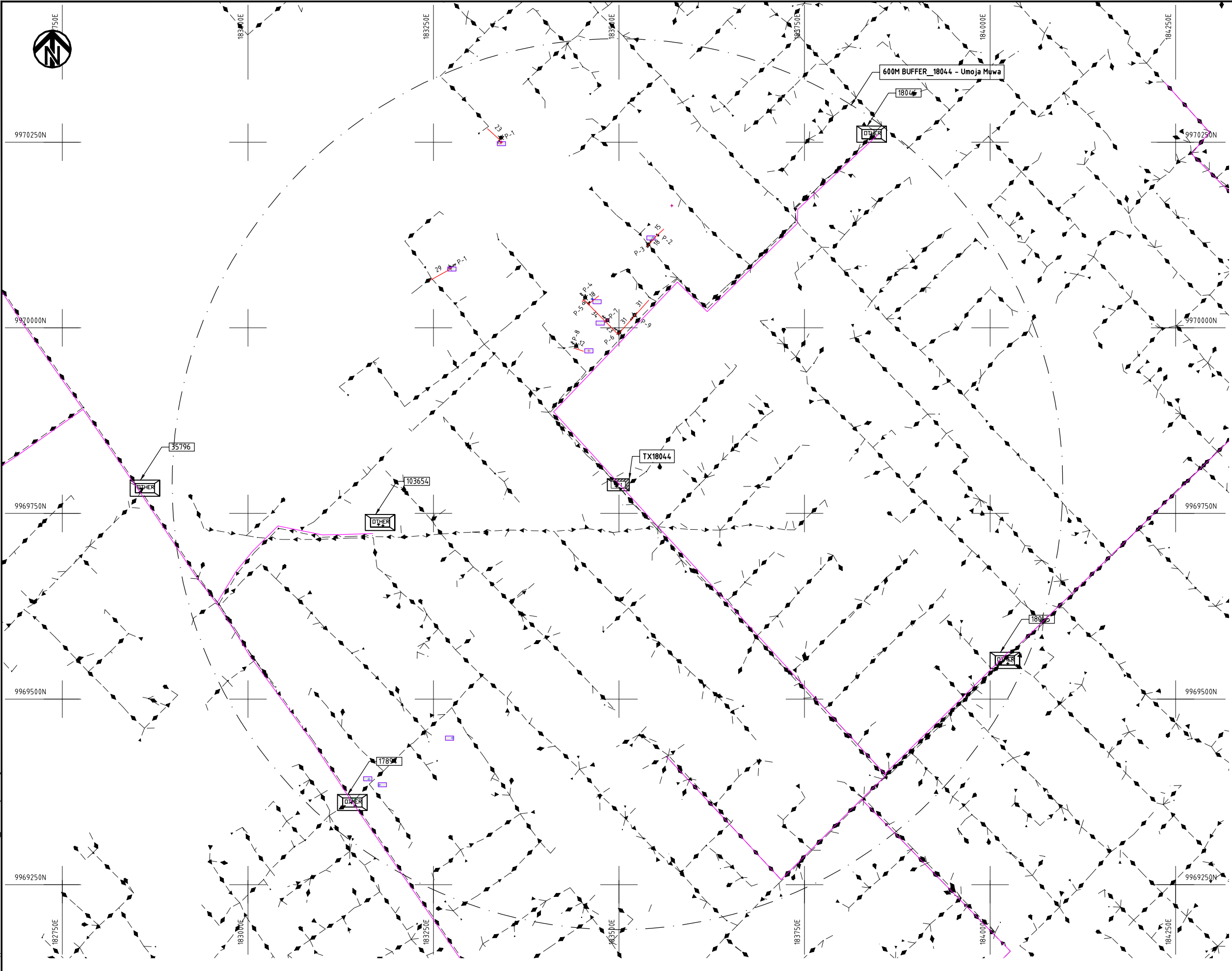
- HOUSEHOLDS/ BUILDINGS
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- OTHER EXISTING TRANSFORMER
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING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

SCALE 1: 5000 (A3)

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

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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-30 | CHECKED BY | S.MAETA |
| SCHEME: MAXIMIZATION | | APPROVED BY | | Y.TANAKA | |
| PROJECT SITE: 35429 MUGUGA LANET | | | DATE | 10th SEP 2018 | |





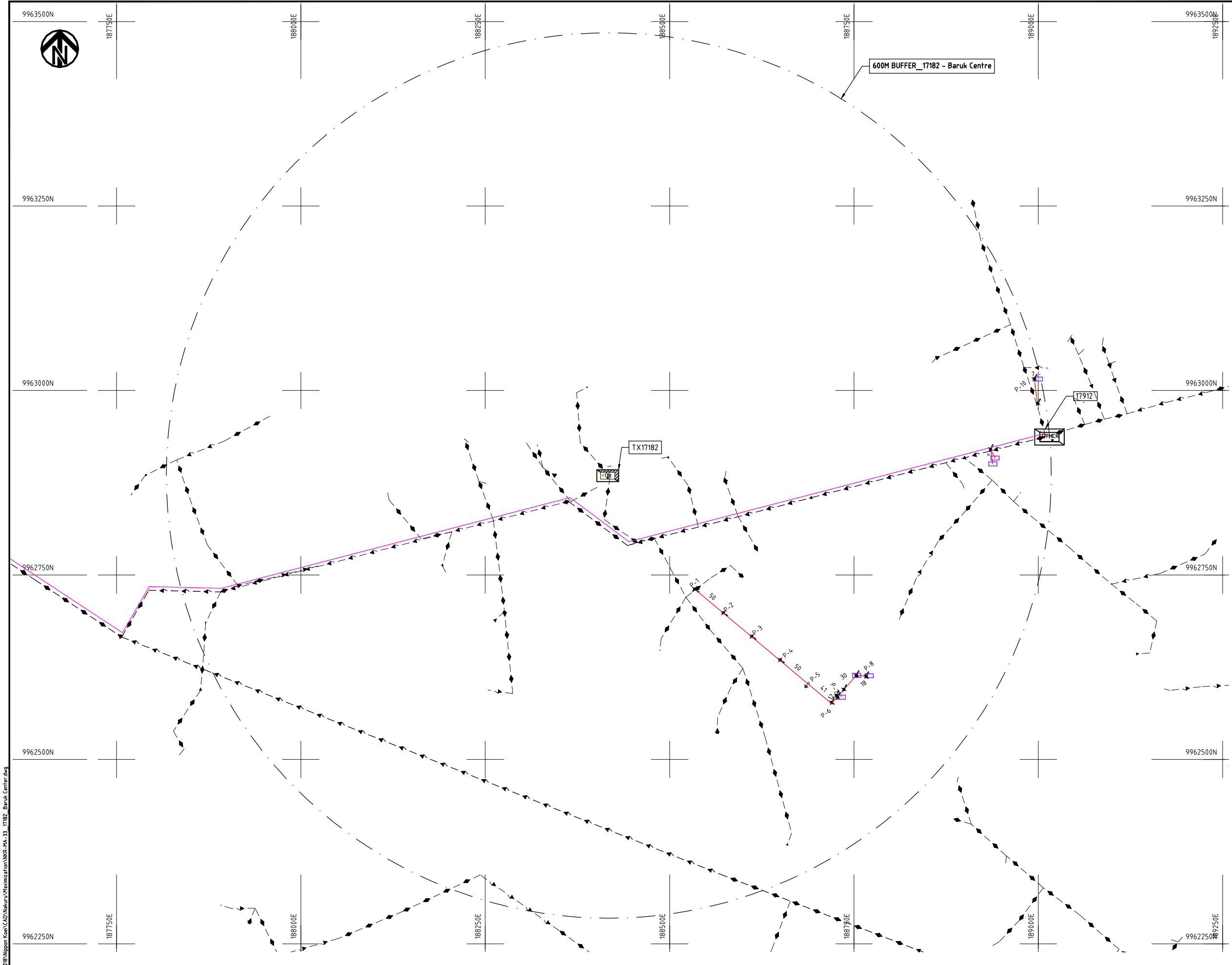
- NOTES:**
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.
 5. POLES NOT SHOWN WHERE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

Cadd 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 |

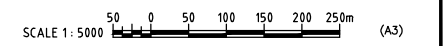




- NOTES:**
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.
 5. POLES NOT SHOWN WHERE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

LEGEND

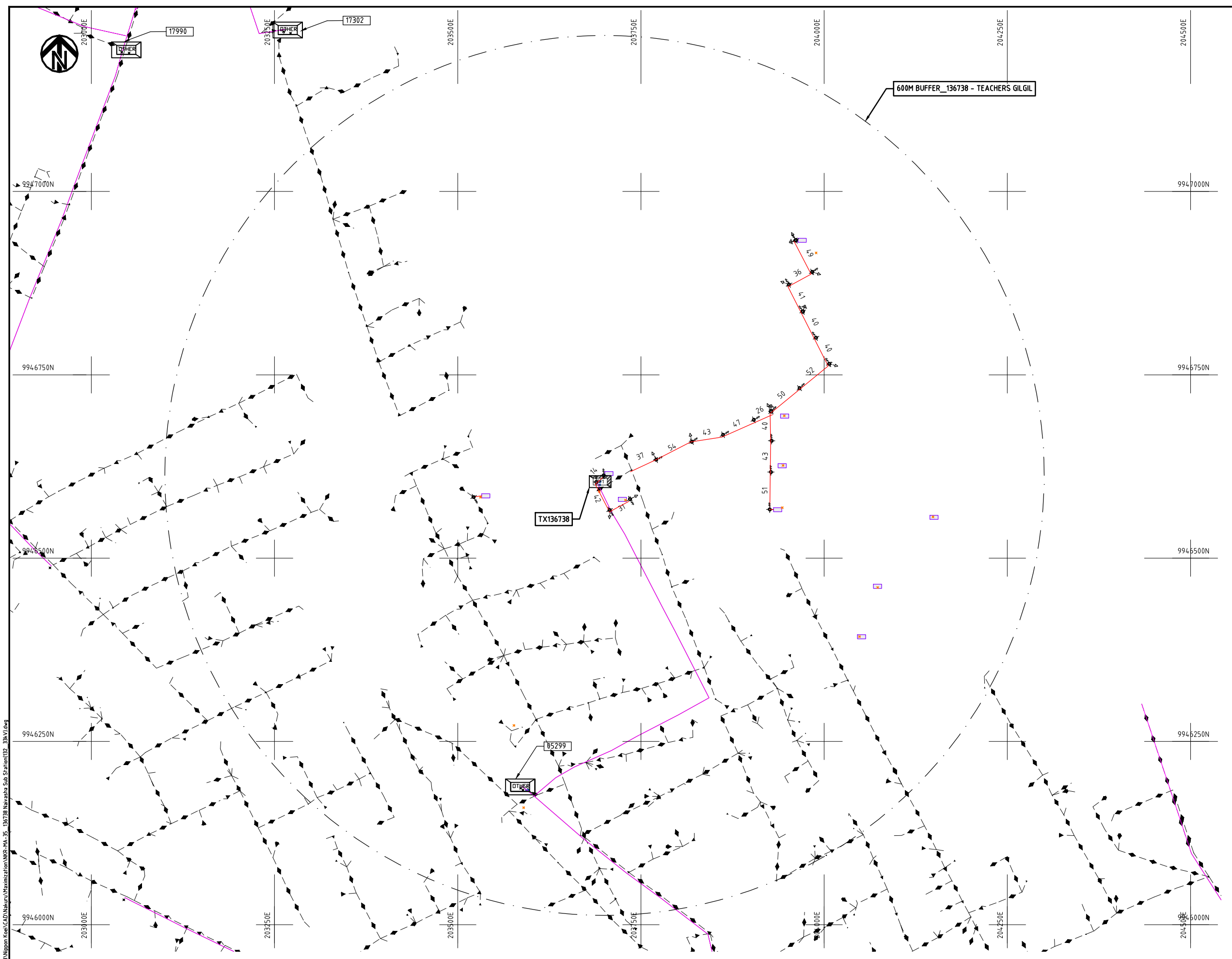
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|--|-----------------------------------|
| | HOUSEHOLDS/ BUILDINGS |
| | PROPOSED DISTRIBUTION LINE |
| | EXISTING 11kV LINE |
| | EXISTING 33kV LINE |
| | EXISTING DISTRIBUTION LINE |
| | MAXIMISATION TRANSFORMER |
| | EXTENSION TRANSFORMER |
| |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



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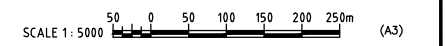
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|--|--|--|-----------|-------------|---------------|
| PROJECT: THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA | DRAWING TITLE | | DRAW. NO. | PREPARED BY | A.AKBAR |
| | COUNTY: NAKURU SCHEME: MAXIMIZATION PROJECT SITE: 17182-BARUK CENTRE | | NKR-MA-33 | 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



Caf File No. D:\Frank-Proj\2018\Nippon Coe\CAD\Nakuru\Maximization\NKR-MA-35_136738 Naivasha Sub Station\13_33kV.dwg

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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-35 | CHECKED BY | S.MAETA |
| SCHEME: MAXIMIZATION | | APPROVED BY | | Y.TANAKA | |
| PROJECT SITE: 136738- Naivasha Sub Station (132_33kV) | | | DATE | 10th SEP 2018 | |



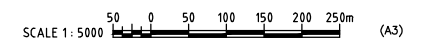


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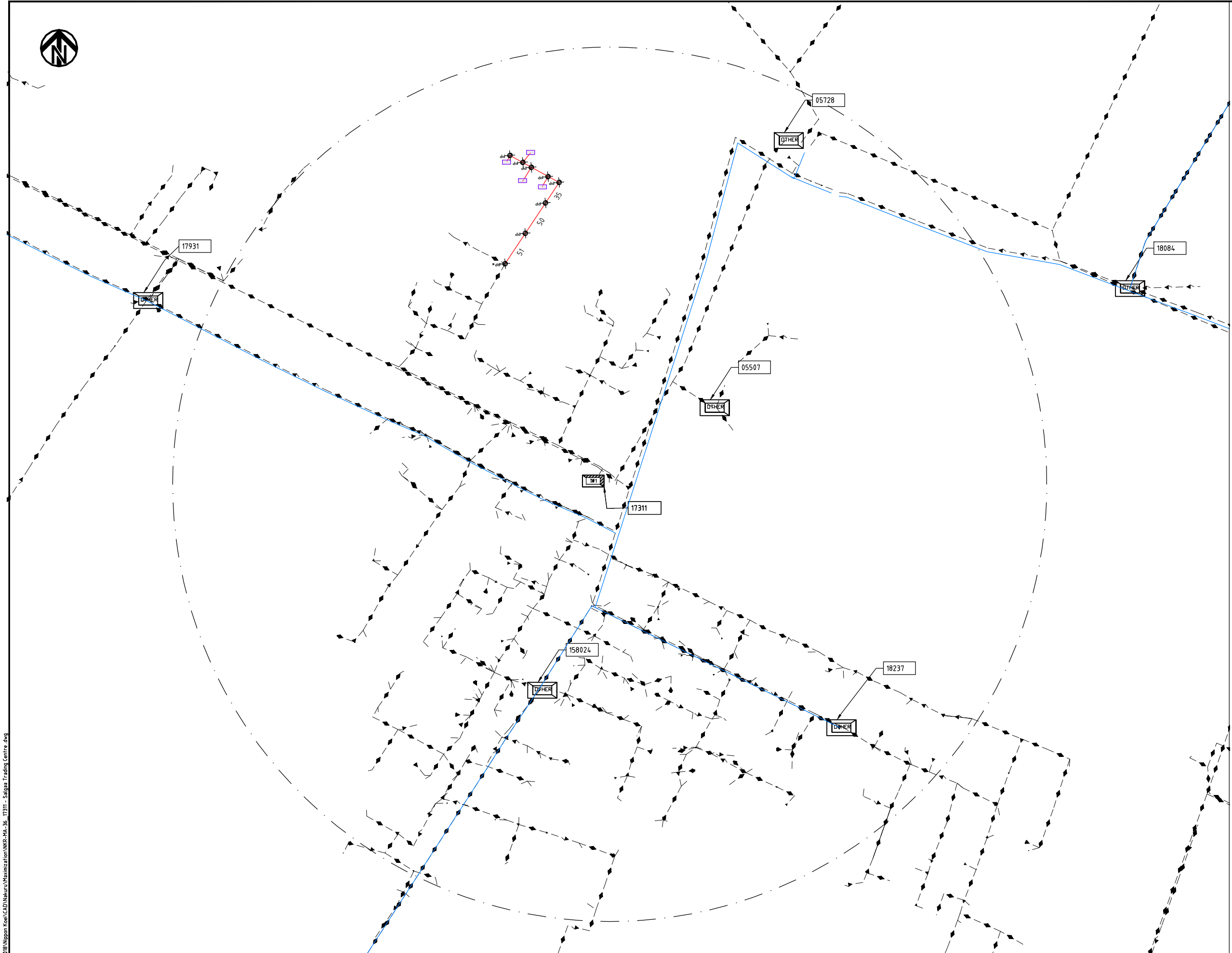
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.
5. POLES NOT SHOWN WHERE PME OR LV EARTH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

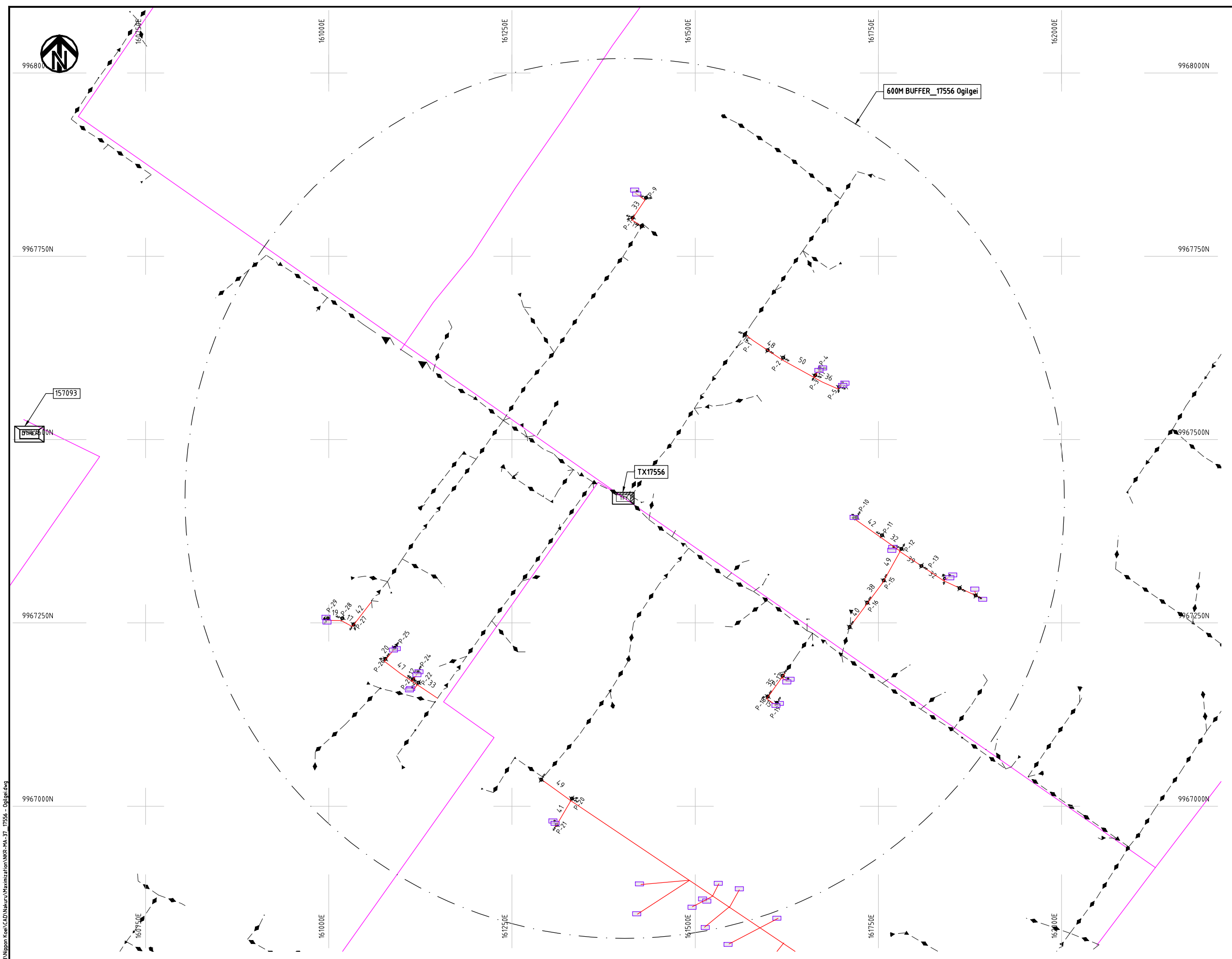


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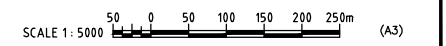
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|--|---|--|-----------|-------------|---------------|
| PROJECT: THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA | DRAWING TITLE | | DRAW. NO. | PREPARED BY | A.AKBAR |
| | COUNTY: NAKURU SCHEME: MAXIMIZATION PROJECT SITE: 17311-SALGAA TRADING CENTRE | | NKR-MA-36 | 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.

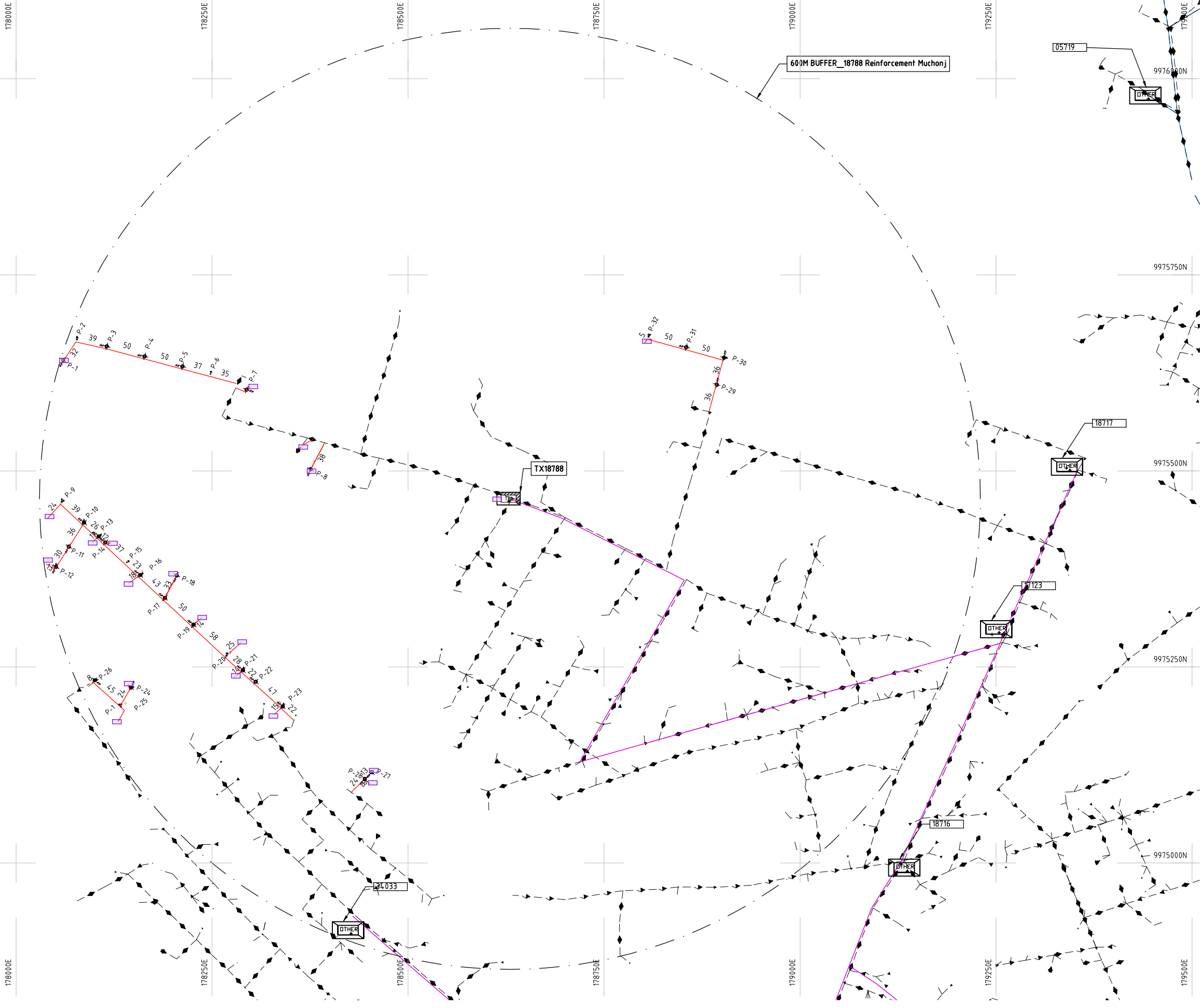
- LEGEND**
- HOUSEHOLDS/ BUILDINGS
 - PROPOSED DISTRIBUTION LINE
 - EXISTING 11kV LINE
 - EXISTING 33kV LINE
 - EXISTING DISTRIBUTION LINE
 - MAXIMISATION TRANSFORMER
 - EXTENSION TRANSFORMER
 - OTHER EXISTING TRANSFORMER
 - WOODEN ELECTRIC POLES
 - CONCRETE ELECTRIC POLES
 - LV-EARTH
 - PME -PROTECTIVE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



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

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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: 17556 - OLGILGEI | | NKR-MA-37 | CHECKED BY | S.MAETA |
| | | | | APPROVED BY | Y.TANAKA |
| | | | | DATE | 10th SEP 2018 |



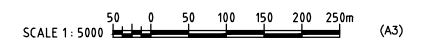


NOTES:

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



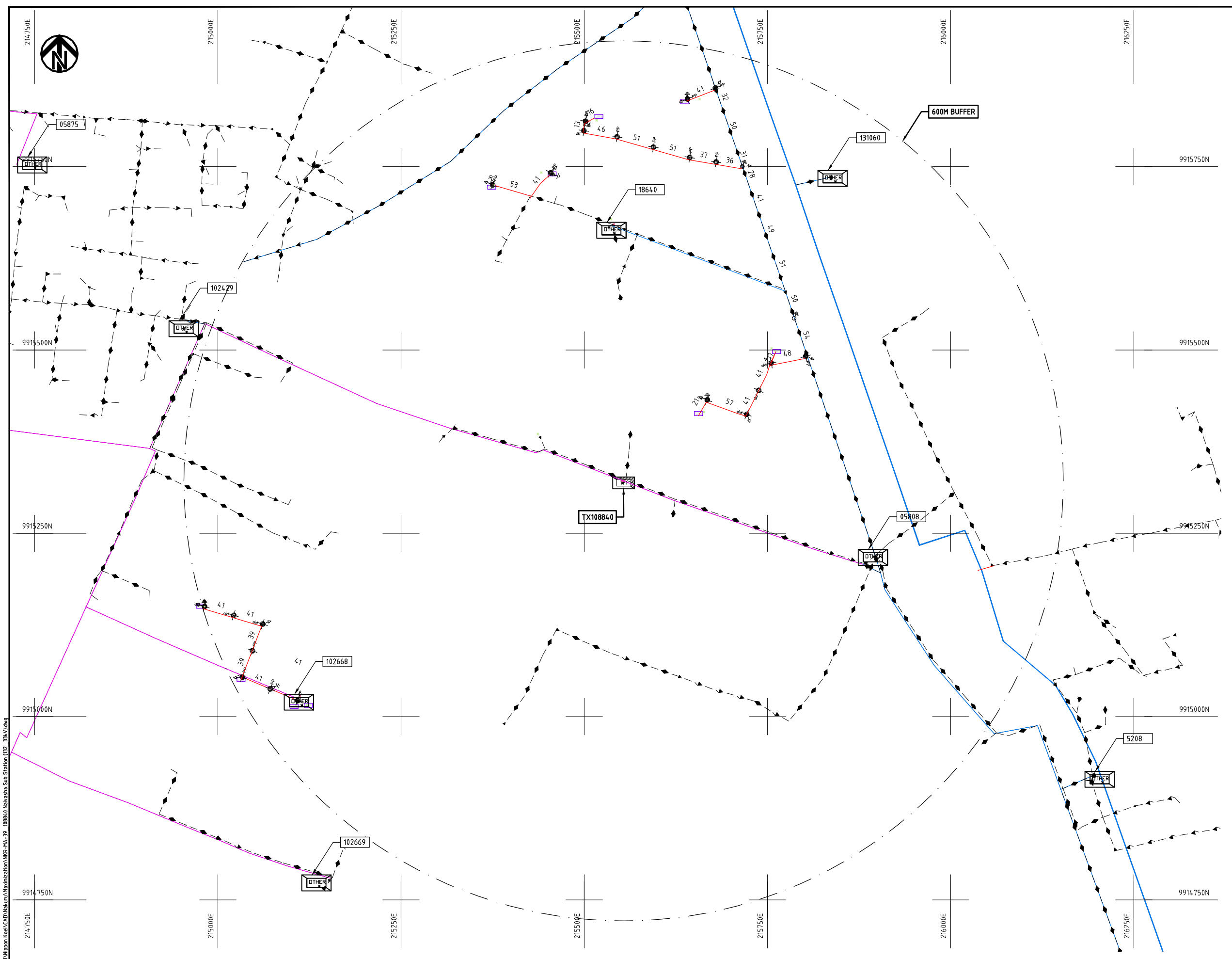
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PROJECT:
**THE PREPARATORY SURVEY
 ON THE PROJECT FOR IMPROVEMENT
 OF POWER DISTRIBUTION SYSTEM
 IN THE REPUBLIC OF KENYA**

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

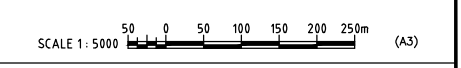
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|-----------|-------------|---------------|
| DRAW. NO. | PREPARED BY | A.AKBAR |
| | CHECKED BY | S.MAETA |
| | APPROVED BY | Y.TANAKA |
| | DATE | 10th SEP 2018 |





- 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.

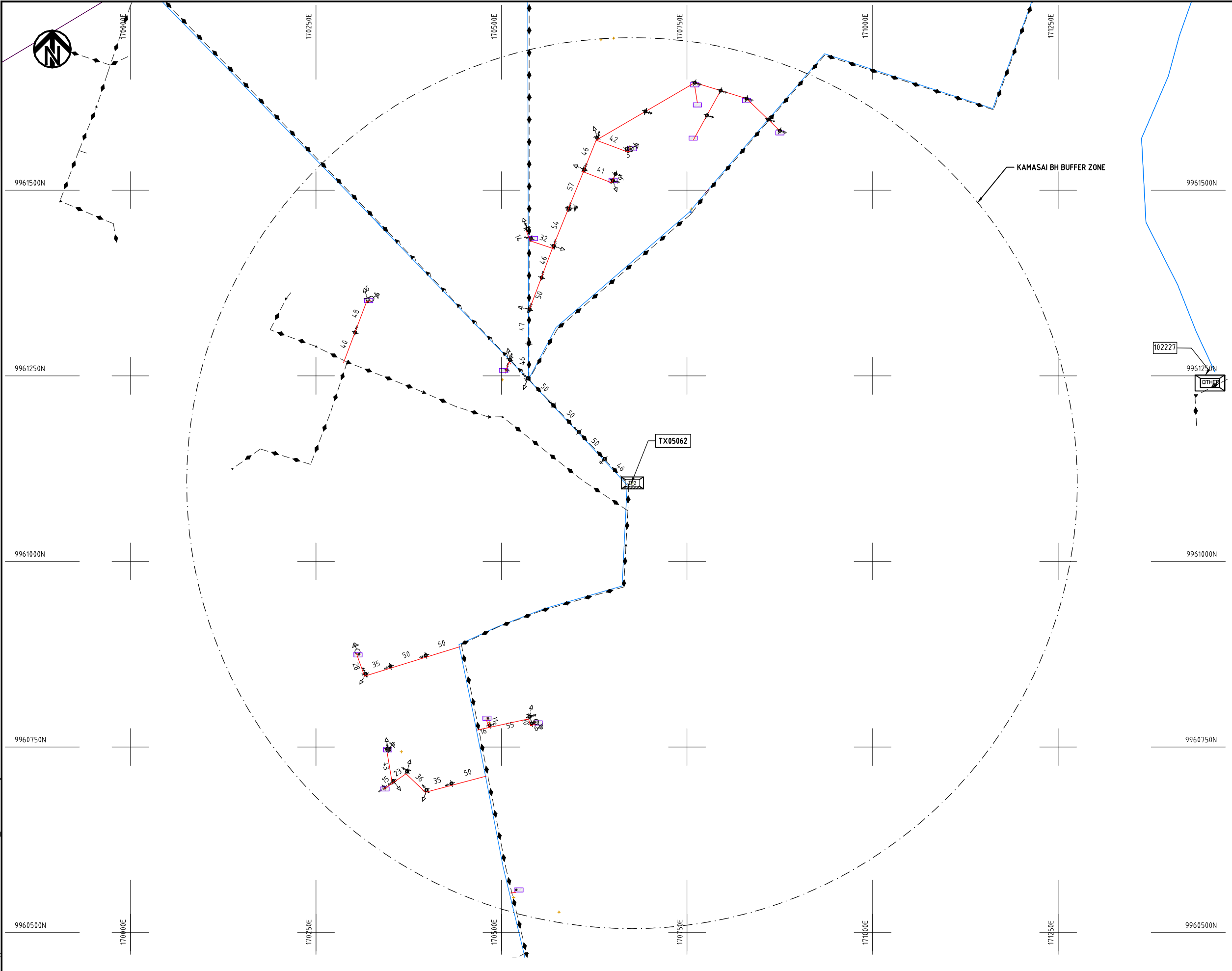
- LEGEND**
- HOUSEHOLDS/ BUILDINGS
 - PROPOSED DISTRIBUTION LINE
 - EXISTING 11kV LINE
 - EXISTING 33kV LINE
 - EXISTING DISTRIBUTION LINE
 - MAXIMISATION TRANSFORMER
 - EXTENSION TRANSFORMER
 - OTHER EXISTING TRANSFORMER
 - WOODEN ELECTRIC POLES
 - CONCRETE ELECTRIC POLES
 - LV-EARTH
 - PME -PROTECTIVE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



Caf File No. D:\Frank-Proj 2018\Nippon Coe\CAD\Nakuru\Maximization\NKR-MA-39-108840-Naivasha Sub Station (132_33kV).dwg

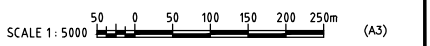
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| PROJECT: THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA | DRAWING TITLE | | DRAW. NO. | PREPARED BY | A.AKBAR |
| | COUNTY: NAKURU SCHEME: MAXIMIZATION PROJECT SITE: 108840-Naivasha Sub Station (132_33kV) | | NKR-MA-39 | 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.

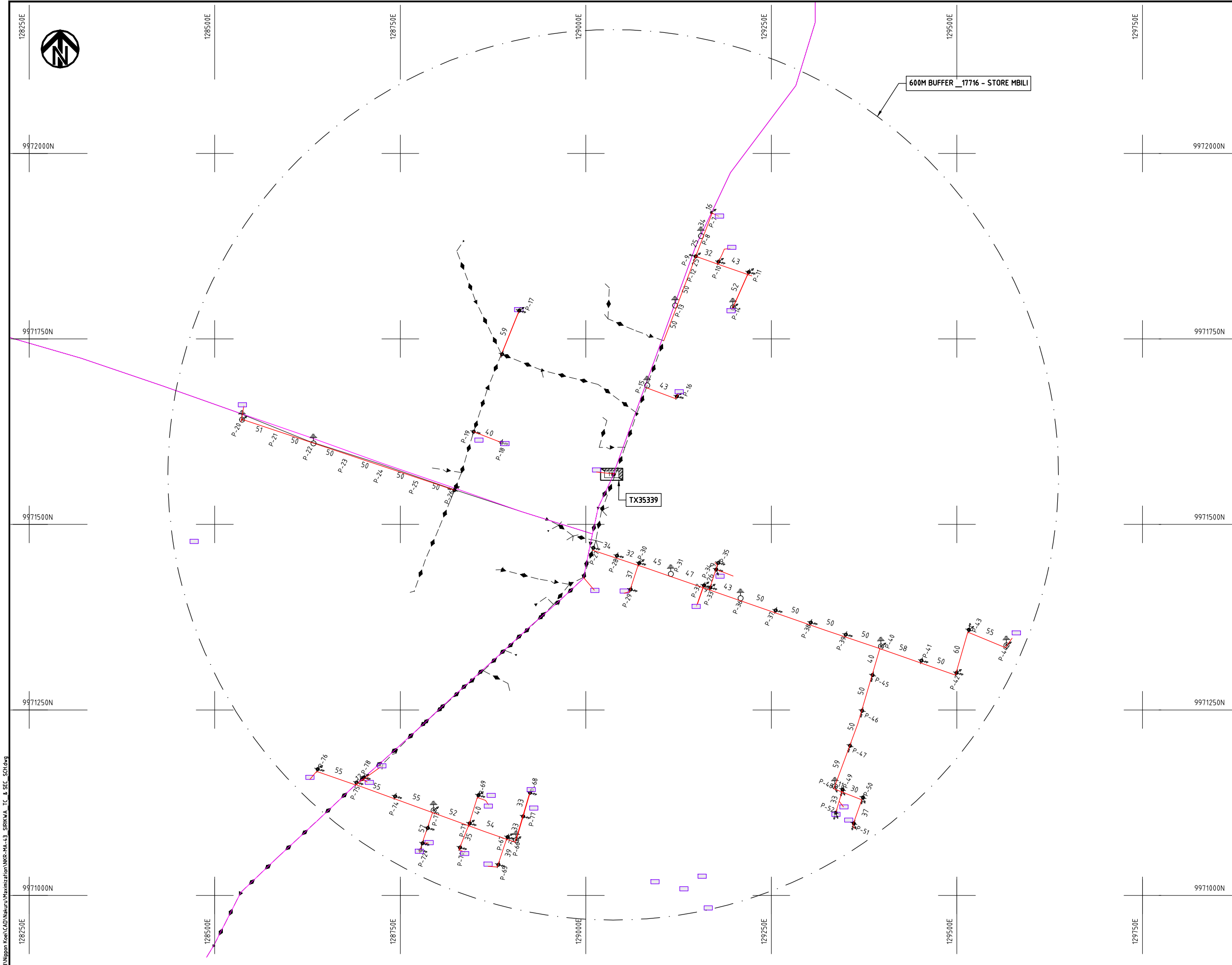
- LEGEND**
- HOUSEHOLDS/ BUILDINGS
 - PROPOSED DISTRIBUTION LINE
 - EXISTING 11kV LINE
 - EXISTING 33kV LINE
 - EXISTING DISTRIBUTION LINE
 - MAXIMISATION TRANSFORMER
 - EXTENSION TRANSFORMER
 - OTHER EXISTING TRANSFORMER
 - PP WOODEN ELECTRIC POLES
 - CP CONCRETE ELECTRIC POLES
 - LV-EARTH
 - PME -PROTECTIVE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



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

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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: 05062-KAMASAI BH | | NKR-MA-41 | CHECKED BY | S.MAETA |
| | | | | APPROVED BY | Y.TANAKA |
| | | | | DATE | 10th SEP 2018 |

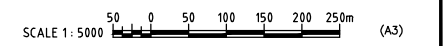




- NOTES:**
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.

LEGEND

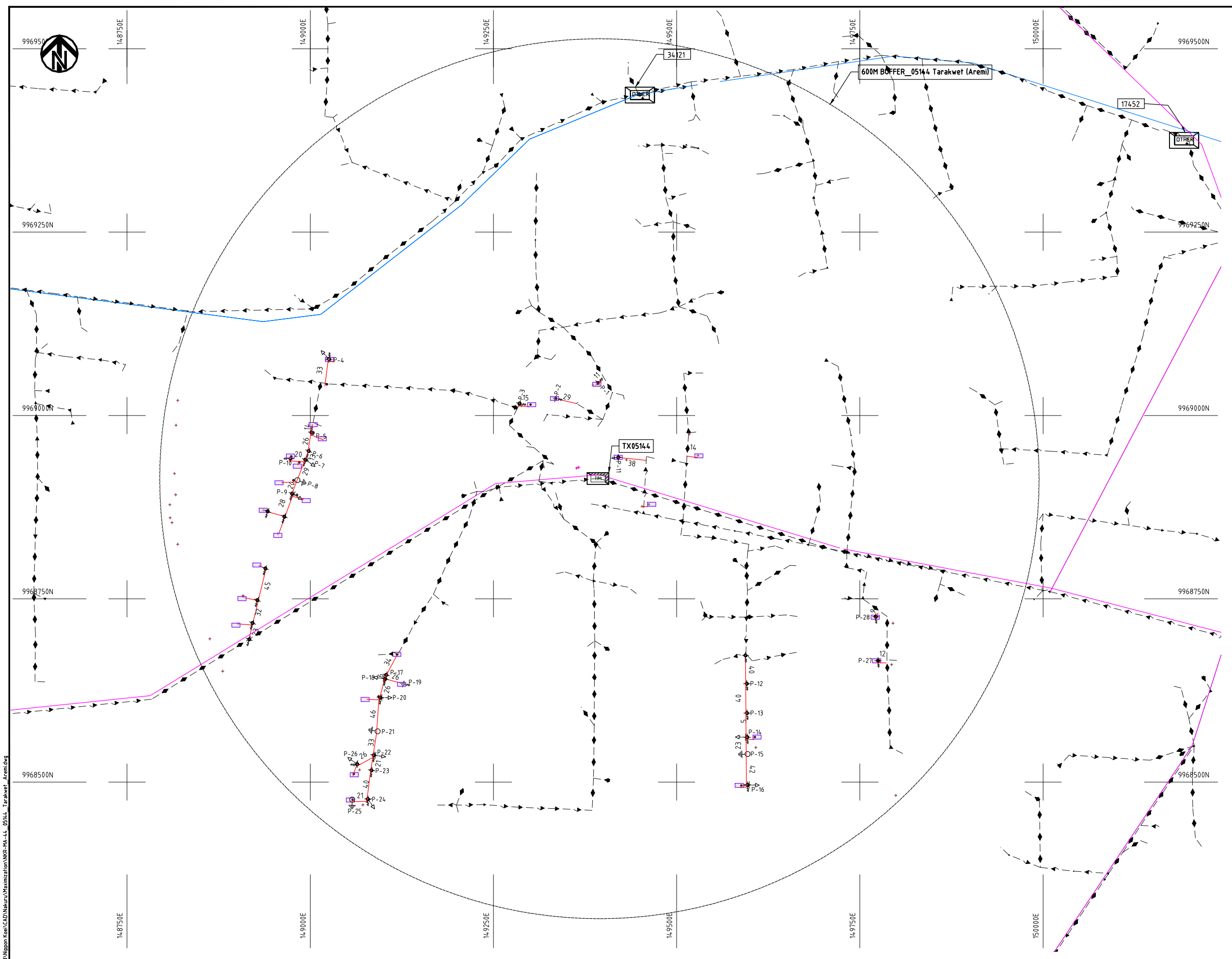
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|--|-----------------------------------|
| | HOUSEHOLDS/ BUILDINGS |
| | PROPOSED 11kV |
| | PROPOSED 33kV |
| | PROPOSED DISTRIBUTION LINE |
| | EXISTING 11kV LINE |
| | EXISTING 33kV LINE |
| | EXISTING DISTRIBUTION LINE |
| | MAXIMISATION TRANSFORMER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



Csd File No. D:\Frank-Proj\2018\Nippon Koei\CAD\Nakuru\Maximization\NKR-MA-43_SIRIKWA_T/C & SEC_SEC1.dwg

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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: 35339-SIRIKWA T/C & SECONDARY SCHOOL | | NKR-MA-43 | CHECKED BY | S.MAETA |
| | | | | APPROVED BY | Y.TANAKA |
| | | | | DATE | 10th SEP 2018 |



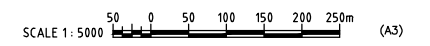


NOTES:

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

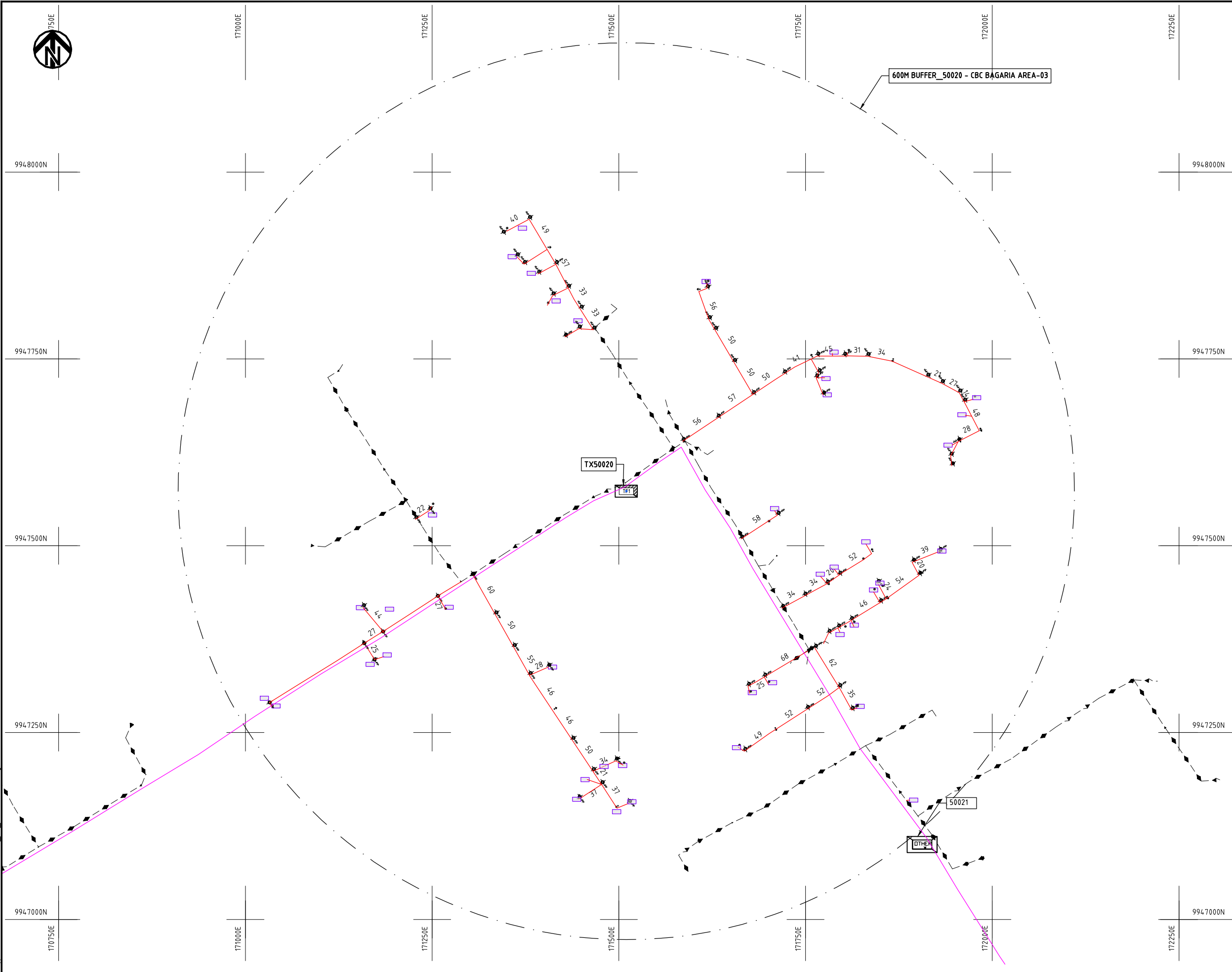
- HOUSEHOLDS/ BUILDINGS
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- OTHER EXISTING TRANSFORMER
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING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



Csd File No. D:\Frank-Proj\2018\Nippon Koei\CAD\Nakuru\Maximization\NKR-MA-44_05144_Tarakwet_Aremi.dwg

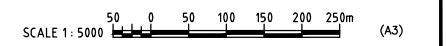
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| PROJECT: THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA | DRAWING TITLE COUNTY: NAKURU SCHEME: MAXIMIZATION PROJECT SITE: 05144 TARAKWET (AREMI) | DRAW. NO. NKR-MA-44 | PREPARED BY A.AKBAR | 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.

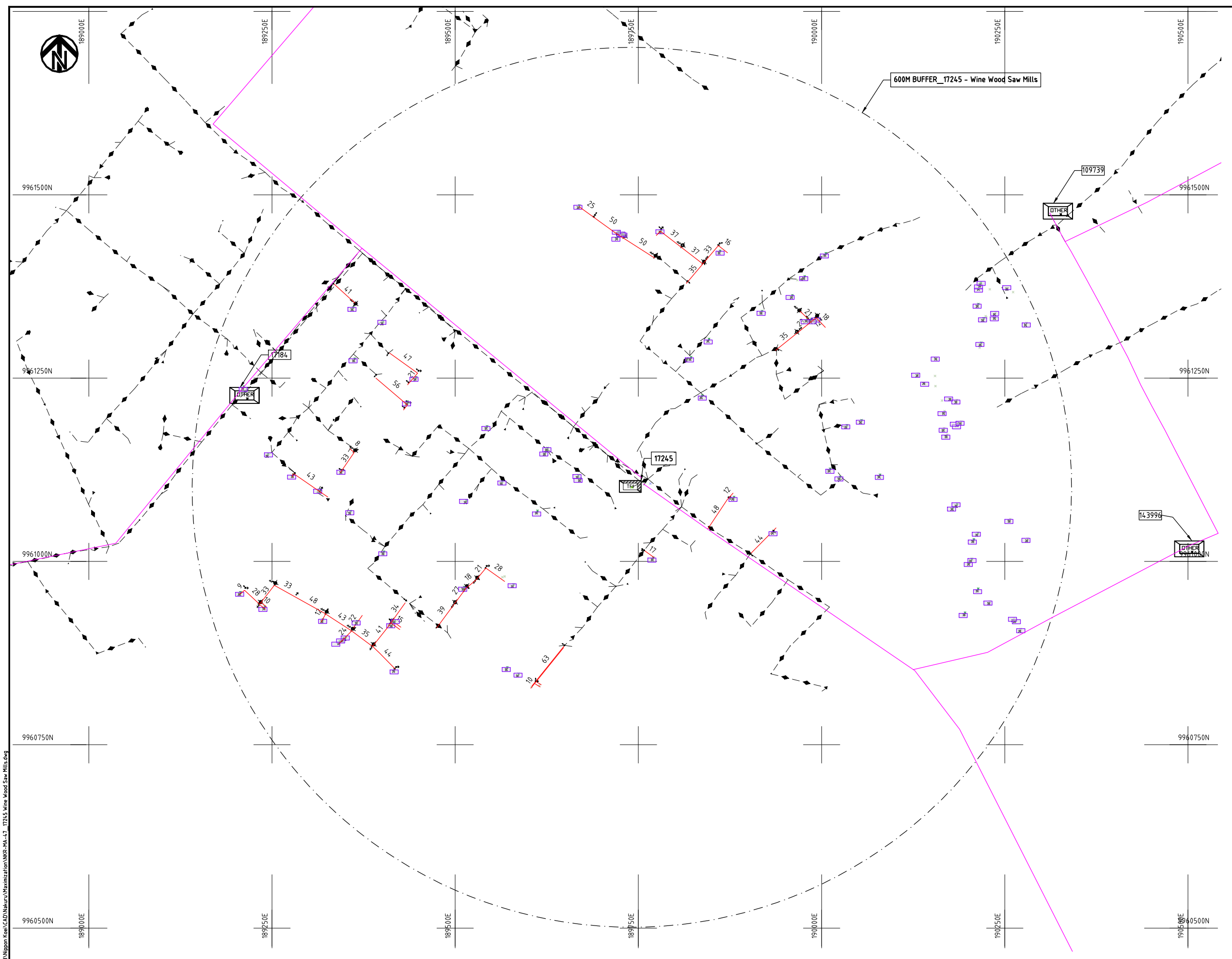
- LEGEND**
- HOUSEHOLDS/ BUILDINGS
 - PROPOSED 11kV
 - PROPOSED 33kV
 - PROPOSED DISTRIBUTION LINE
 - EXISTING 11kV LINE
 - EXISTING 33kV LINE
 - EXISTING DISTRIBUTION LINE
 - MAXIMISATION TRANSFORMER
 - EXTENSION TRANSFORMER
 - WOODEN ELECTRIC POLES
 - CONCRETE ELECTRIC POLES 12M
 - CONCRETE ELECTRIC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



Cadd File No. D:\Frank-Prop\2018\Nippon Koei\CAD\Nakuru\Maximization\NKR-MA-46_CBC_BAGARIA AREA 03.dwg

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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: 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.

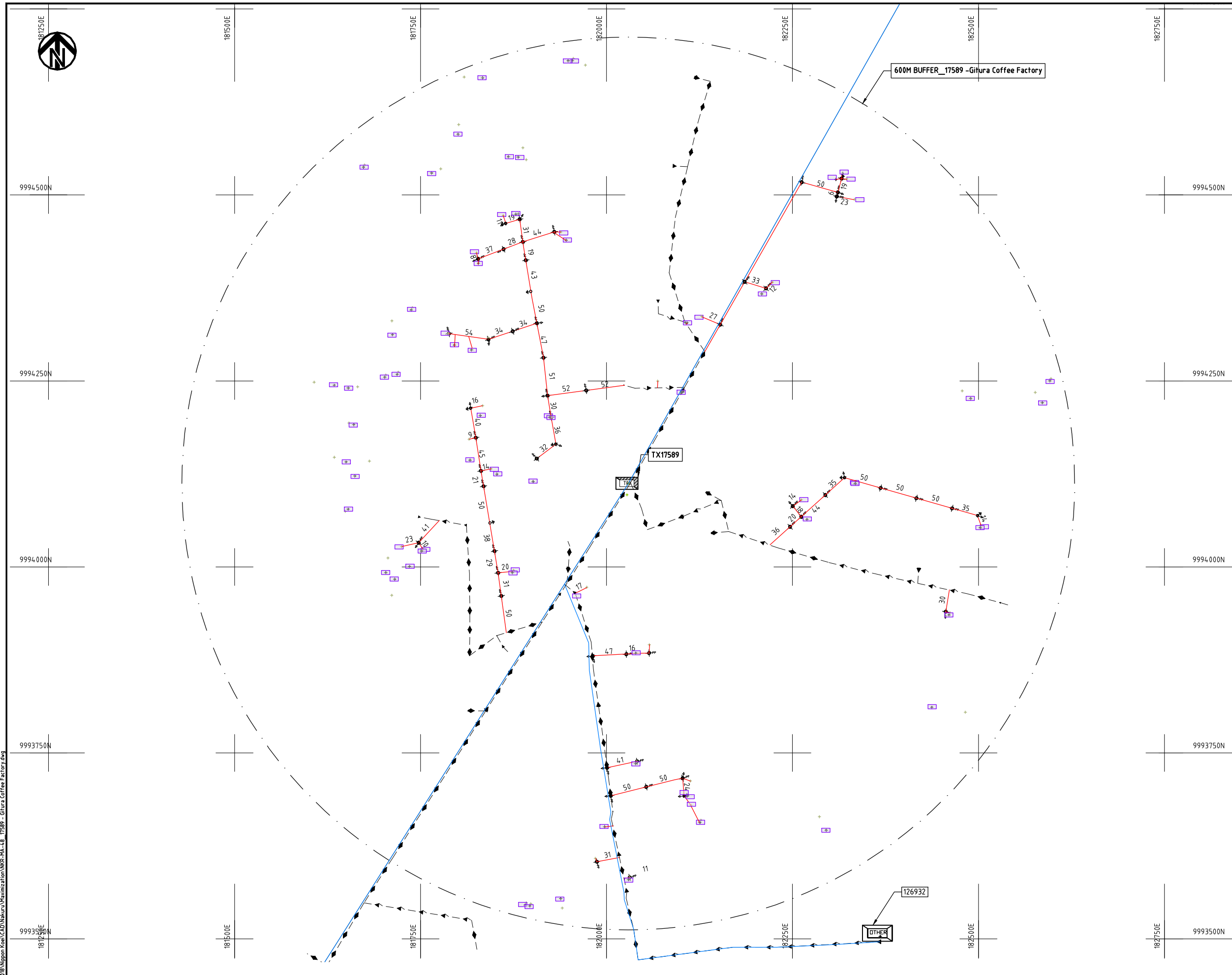
- LEGEND**
- HOUSEHOLDS/ BUILDINGS
 - PROPOSED DISTRIBUTION LINE
 - EXISTING 11kV LINE
 - EXISTING 33kV LINE
 - EXISTING DISTRIBUTION LINE
 - MAXIMISATION TRANSFORMER
 - EXTENSION TRANSFORMER
 - OTHER EXISTING TRANSFORMER
 - WOODEN ELECTRIC POLES
 - CONCRETE ELECTRIC POLES
 - LV-EARTH
 - PME -PROTECTIVE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

SCALE 1: 5000 (A3)

Csd File No. D:\Frank-Proj\2018\Nippon Koei\CAD\Nakuru\Maximization\NKR-MA-47_17245 Wine Wood Saw Mills.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: 17245-WINE WOOD SAW MILLS | | NKR-MA-47 | CHECKED BY | S.MAETA |
| | | | | APPROVED BY | Y.TANAKA |
| | | | | DATE | 10th SEP 2018 |



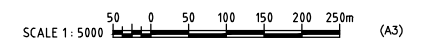


NOTES:

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.

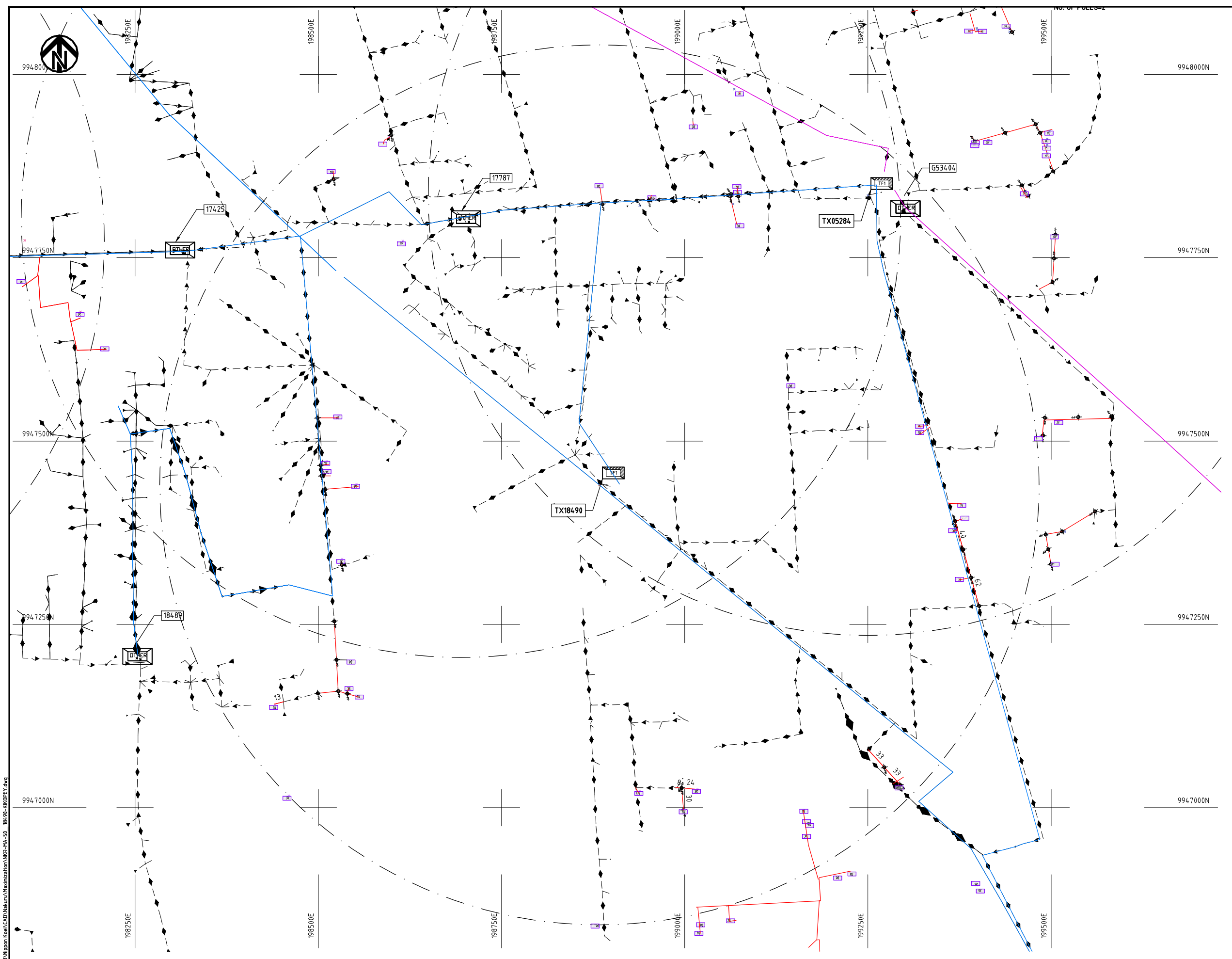
LEGEND

- 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

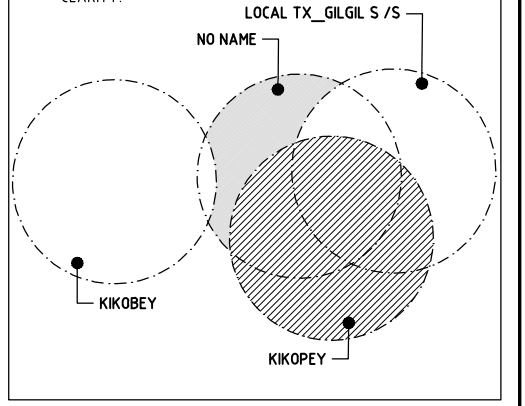


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|--|--|--|-----------|-------------|---------------|
| PROJECT: THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA | DRAWING TITLE | | DRAW. NO. | PREPARED BY | A.AKBAR |
| | COUNTY: NAKURU SCHEME: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

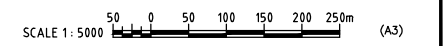




- NOTES:**
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 2. CONCRETE / WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.
 5. POLES NOT SHOWN WHERE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



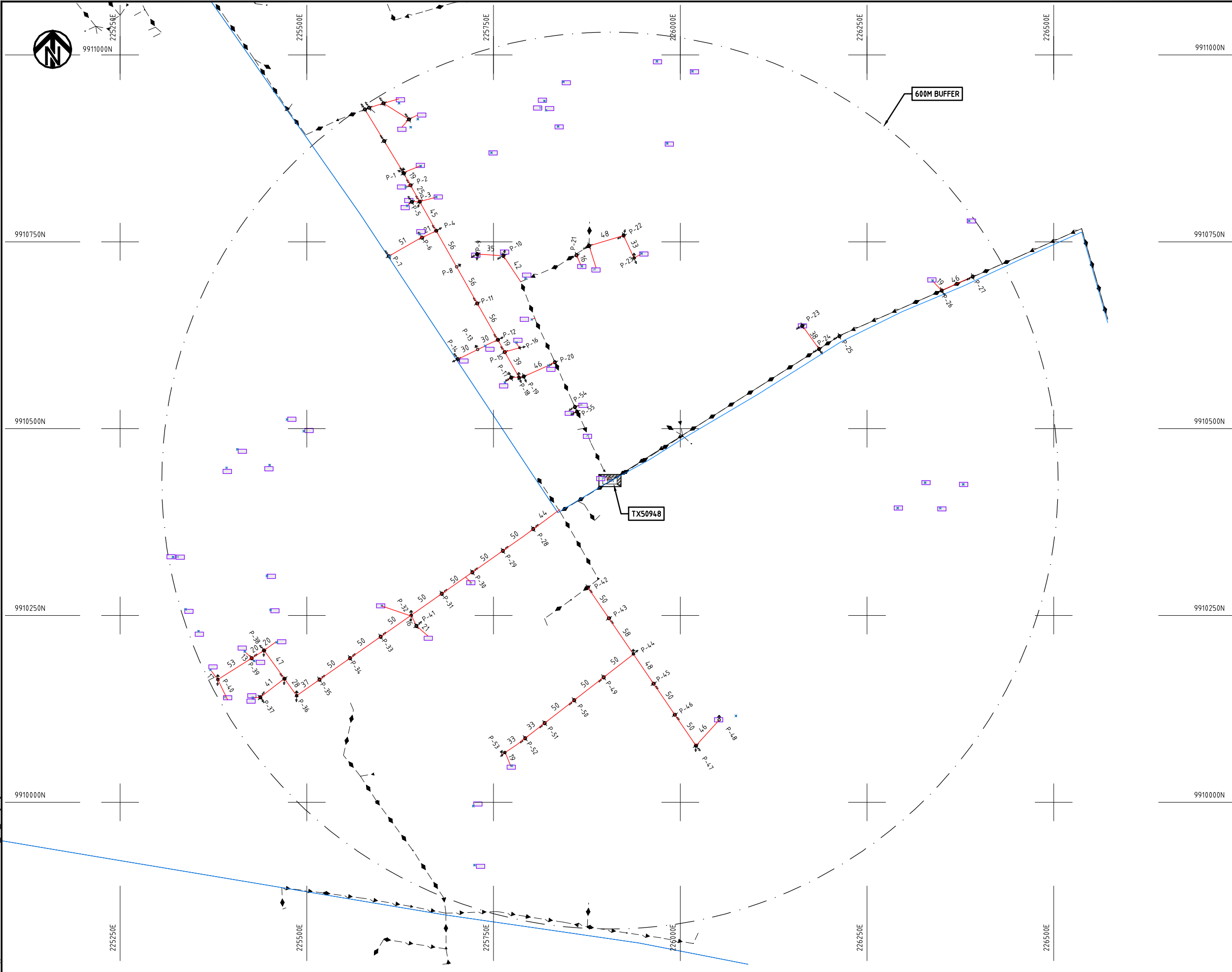
- LEGEND**
- HOUSEHOLDS/ BUILDINGS
 - PROPOSED DISTRIBUTION LINE
 - EXISTING 11kV LINE
 - EXISTING 33kV LINE
 - EXISTING DISTRIBUTION LINE
 - MAXIMISATION TRANSFORMER
 - EXTENSION TRANSFORMER
 - OTHER EXISTING TRANSFORMER
 - WOODEN ELECTRIC POLES
 - CONCRETE ELECTRIC POLES
 - LV-EARTH
 - PME -PROTECTIVE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



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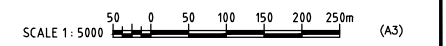
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| PROJECT: THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA | DRAWING TITLE | | DRAW. NO. | PREPARED BY | A.AKBAR |
| | COUNTY: NAKURU SCHEME: MAXIMIZATION PROJECT SITE: 18490-KIKOPEY | | NKR-MA-50 | 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



Csd File No. D:\Frank-Prop\2018\Nippon Koei\CAD\Nakuru\Maximization\NKR-MA-51_CBE_Kinungi.dwg

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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-51 | CHECKED BY | S.MAETA |
| | SCHEME: MAXIMIZATION | | | APPROVED BY | Y.TANAKA |
| | PROJECT SITE: 50948-CBC KINUNGI | | | DATE | 10th SEP 2018 |



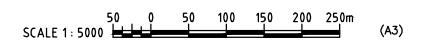


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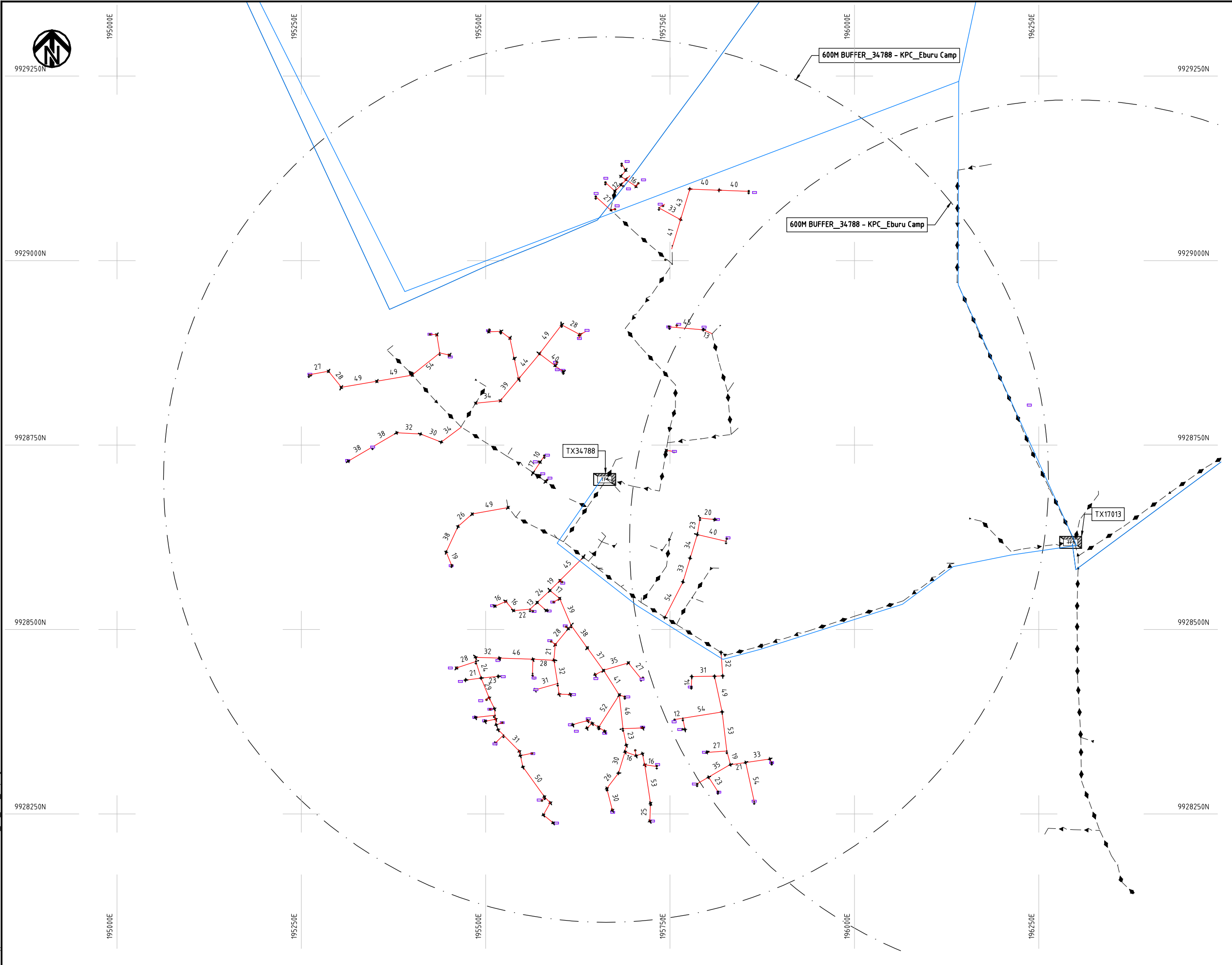
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
2. CONCRETE / WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.

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

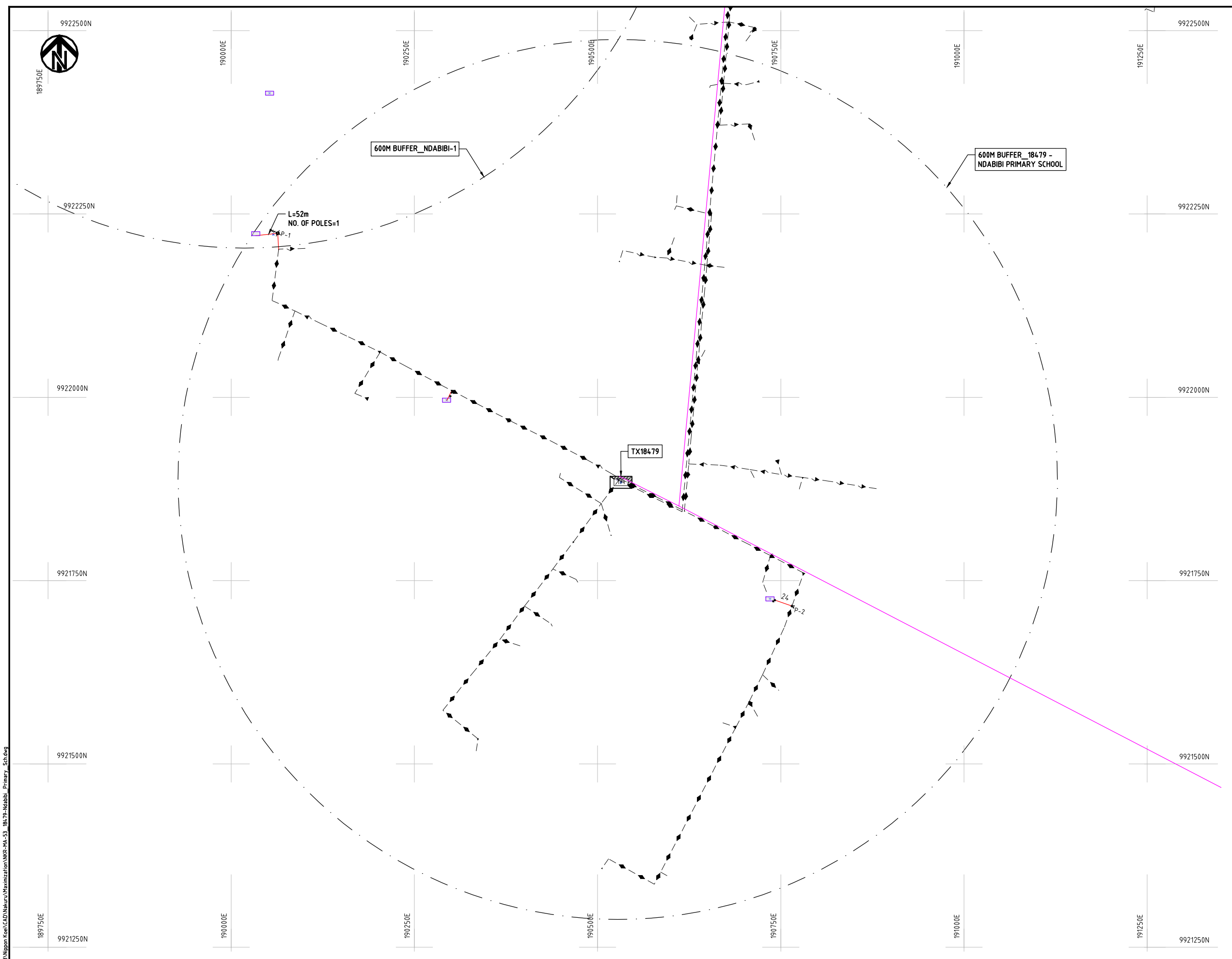


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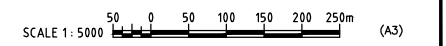
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| PROJECT: THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA | DRAWING TITLE | | DRAW. NO. | PREPARED BY | A.AKBAR |
| | COUNTY: NAKURU | | NKR-MA-52 | CHECKED BY | S.MAETA |
| SCHEME: MAXIMIZATION | | APPROVED BY | | Y.TANAKA | |
| PROJECT SITE: 34788-K.P.C EBURU CAMP | | 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.

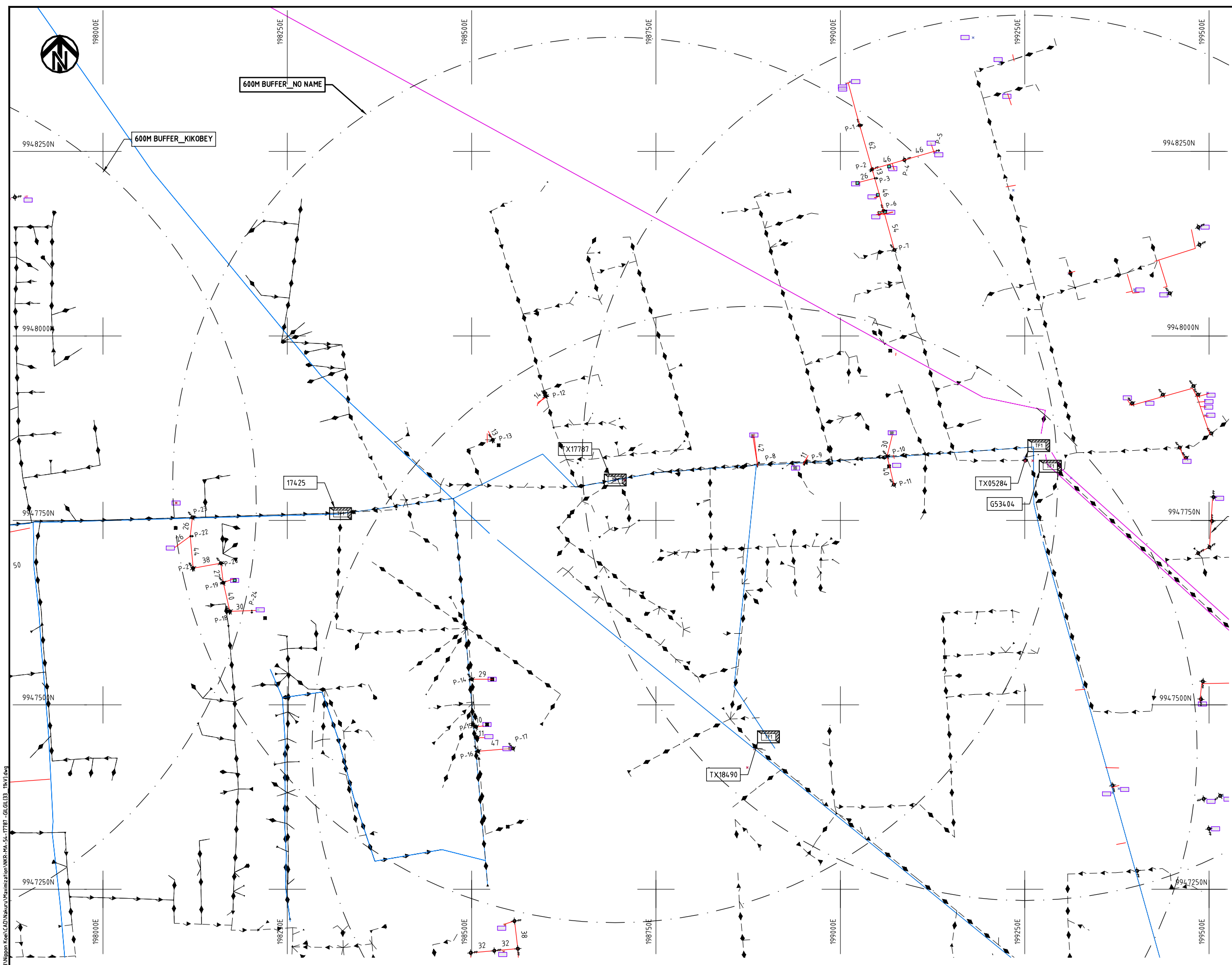
- LEGEND**
- HOUSEHOLDS/ BUILDINGS
 - PROPOSED DISTRIBUTION LINE
 - EXISTING 11kV LINE
 - EXISTING 33kV LINE
 - EXISTING DISTRIBUTION LINE
 - MAXIMISATION TRANSFORMER
 - EXTENSION TRANSFORMER
 - OTHER EXISTING TRANSFORMER
 - WOODEN ELECTRIC POLES
 - CONCRETE ELECTRIC POLES
 - LV-EARTH
 - PME -PROTECTIVE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



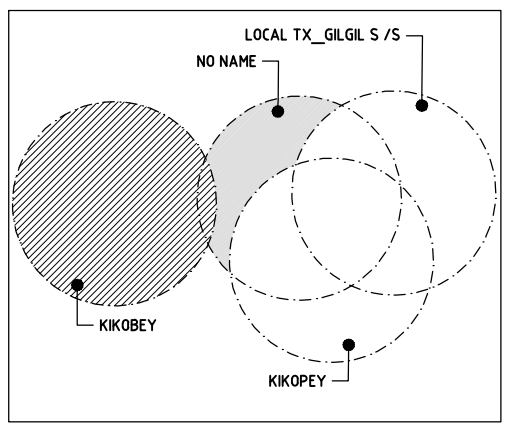
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|--|--|--|-----------|-------------|---------------|
| PROJECT: THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA | DRAWING TITLE | | DRAW. NO. | PREPARED BY | A.AKBAR |
| | COUNTY: NAKURU | | NKR-MA-53 | CHECKED BY | S.MAETA |
| | SCHEME: MAXIMIZATION | | | APPROVED BY | Y.TANAKA |
| | PROJECT SITE: 18479-NDABIBI PRIMARY SCHOOL | | | DATE | 10th SEP 2018 |



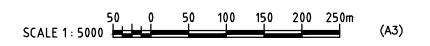


- NOTES:**
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.



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



Caf File No. D:\Frank-Proj\2018\Nakuru\Koei\CAD\Nakuru\Maximization\NKR-MA-54-17787-GILGIL(33_11kV).dwg

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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-54 | CHECKED BY | S.MAETA |
| | SCHEME: MAXIMIZATION | | | APPROVED BY | Y.TANAKA |
| | PROJECT SITE: 17787-GILGIL (33_11kV) | | | DATE | 10th SEP 2018 |





9947000N

198750E

199000E

199250E

199500E

199750E

200000E

9946750N

9946500N

9946250N

9946000N

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199250E

199500E

199750E

200000E














600M BUFFER

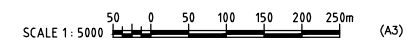
TX51609

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



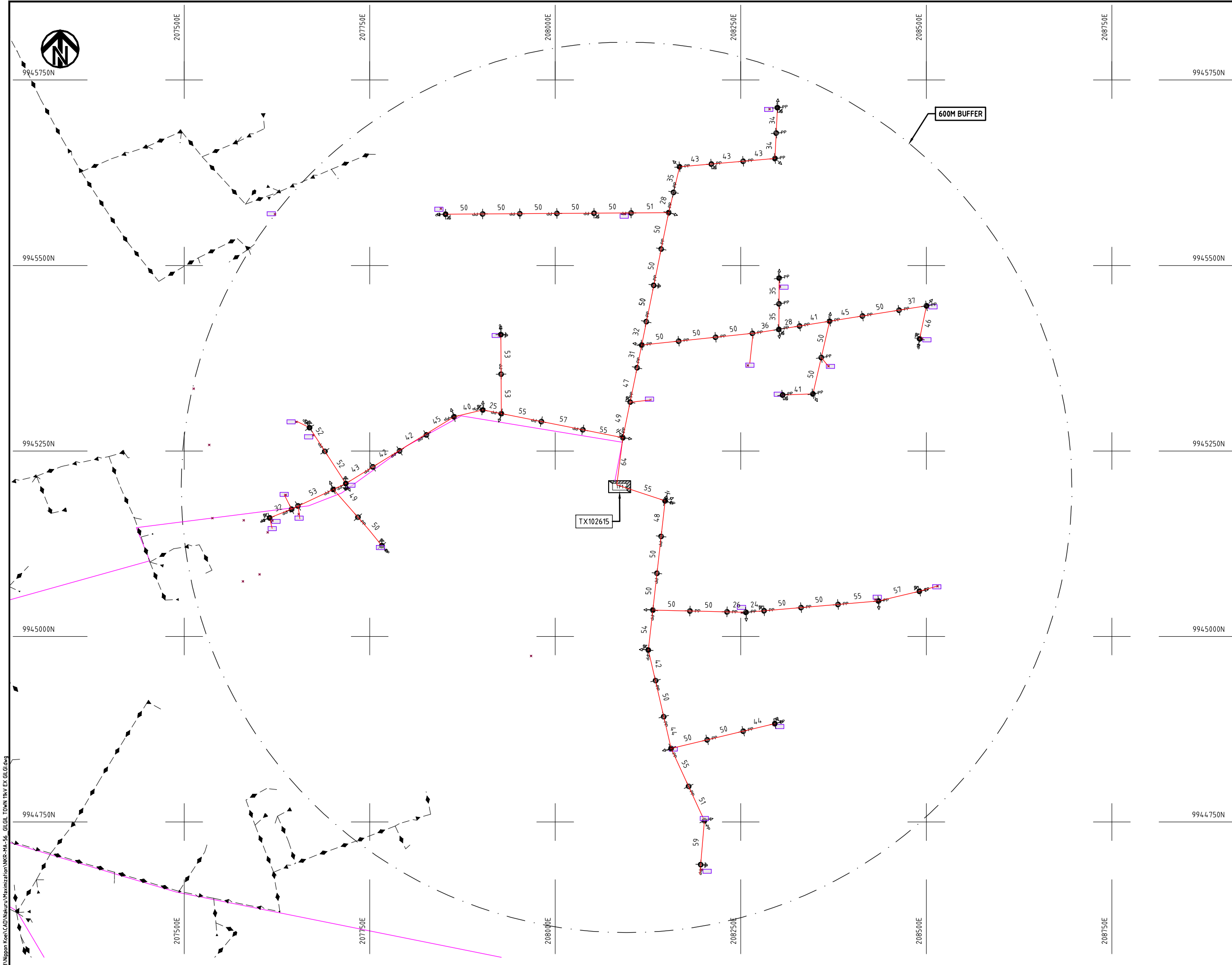
PROJECT:
**THE PREPARATORY SURVEY
 ON THE PROJECT FOR IMPROVEMENT
 OF POWER DISTRIBUTION SYSTEM
 IN THE REPUBLIC OF KENYA**

DRAWING TITLE
**COUNTY: NAKURU
 SCHEME: MAXIMIZATION
 PROJECT SITE: 51609-Gilgil(33_11kV)**

| | | |
|-----------|-------------|---------------|
| DRAW. NO. | PREPARED BY | A.AKBAR |
| NKR-MA-55 | CHECKED BY | S.MAETA |
| | APPROVED BY | Y.TANAKA |
| | DATE | 10th SEP 2018 |

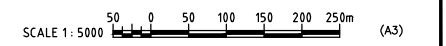


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- NOTES:**
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 4. PME TO BE AFTER EVERY 200m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

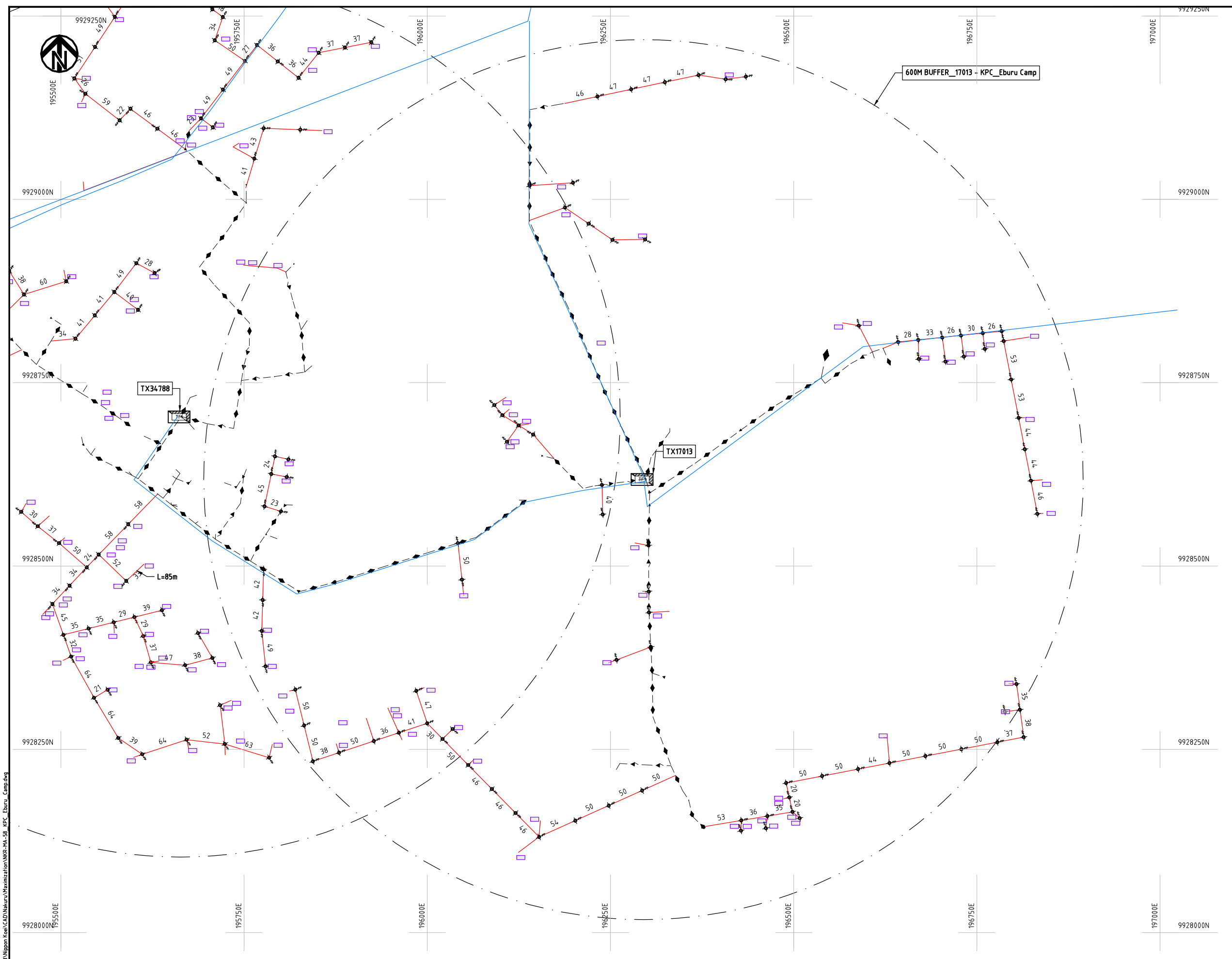
- LEGEND**
- HOUSEHOLDS/ BUILDINGS
 - PROPOSED DISTRIBUTION LINE
 - EXISTING 11kV LINE
 - EXISTING 33kV LINE
 - EXISTING DISTRIBUTION LINE
 - MAXIMISATION TRANSFORMER
 - EXTENSION TRANSFORMER
 - OTHER EXISTING TRANSFORMER
 - WOODEN ELECTRIC POLES
 - CONCRETE ELECTRIC POLES
 - LV-EARTH
 - PME -PROTECTIVE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



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

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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: 102615-GILGIL TOWN 11kV EX GILGI | | NKR-MA-56 | CHECKED BY | S.MAETA |
| | | | | APPROVED BY | Y.TANAKA |
| | | | | DATE | 10th SEP 2018 |

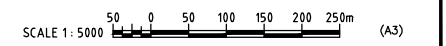




- NOTES:**
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.

LEGEND

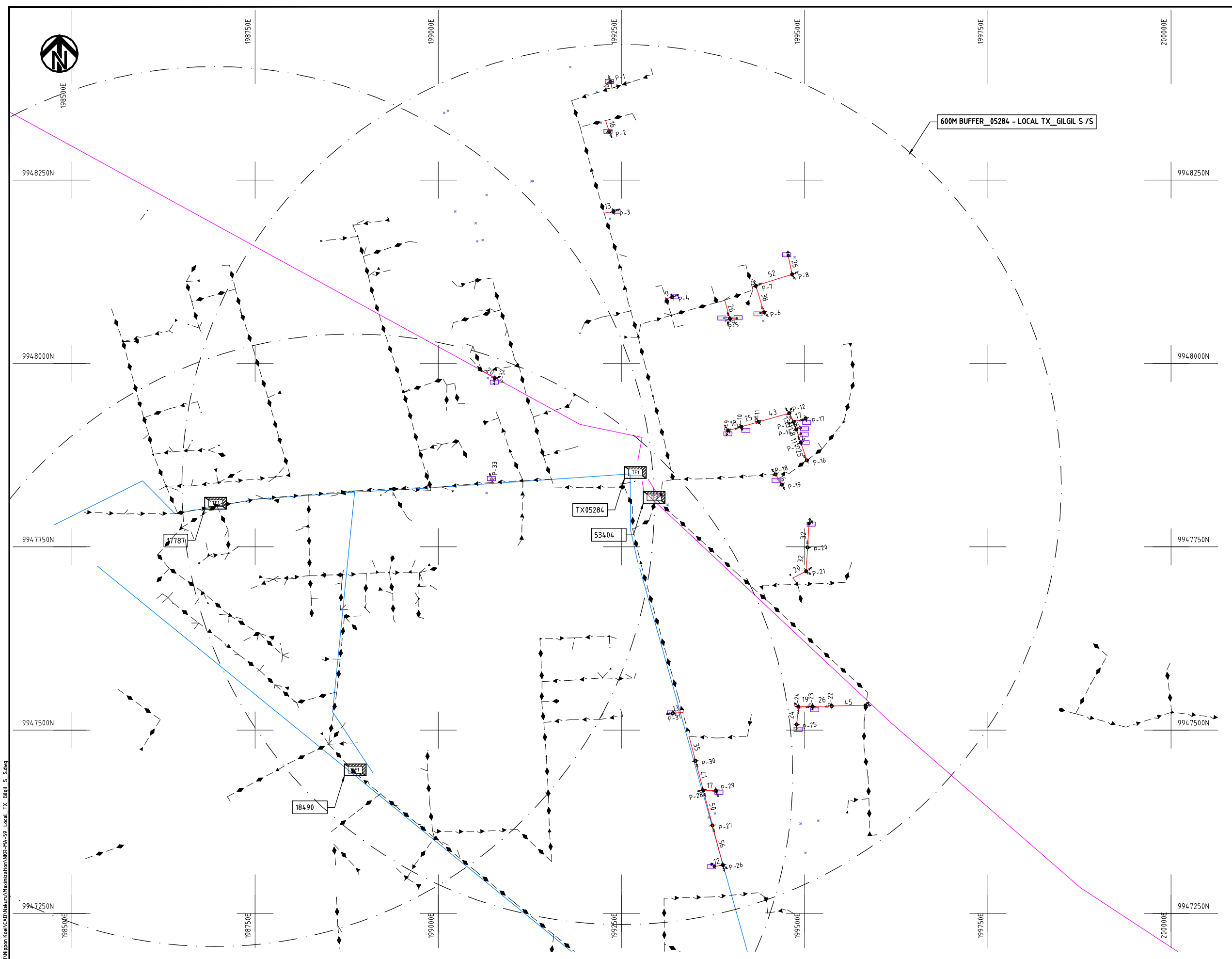
- HOUSEHOLDS/ BUILDINGS
- PROPOSED 11kV
- PROPOSED 33kV
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- PP WOODEN ELECTRIC POLES
- CP CONCRETE ELECTRIC POLES 12M
- CP CONCRETE ELECTRIC POLES 11M
-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



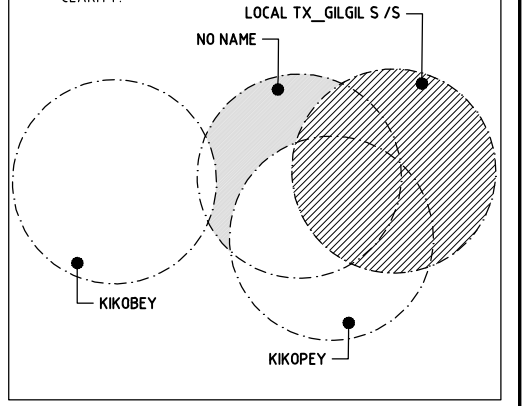
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| | | | | | |
|--|--|--|-----------|-------------|---------------|
| PROJECT: THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA | DRAWING TITLE | | DRAW. NO. | PREPARED BY | A.AKBAR |
| | COUNTY: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



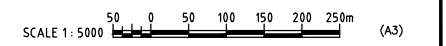


- NOTES:**
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 2. CONCRETE / WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.
 5. POLES NOT SHOWN WHERE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



KEY PLAN

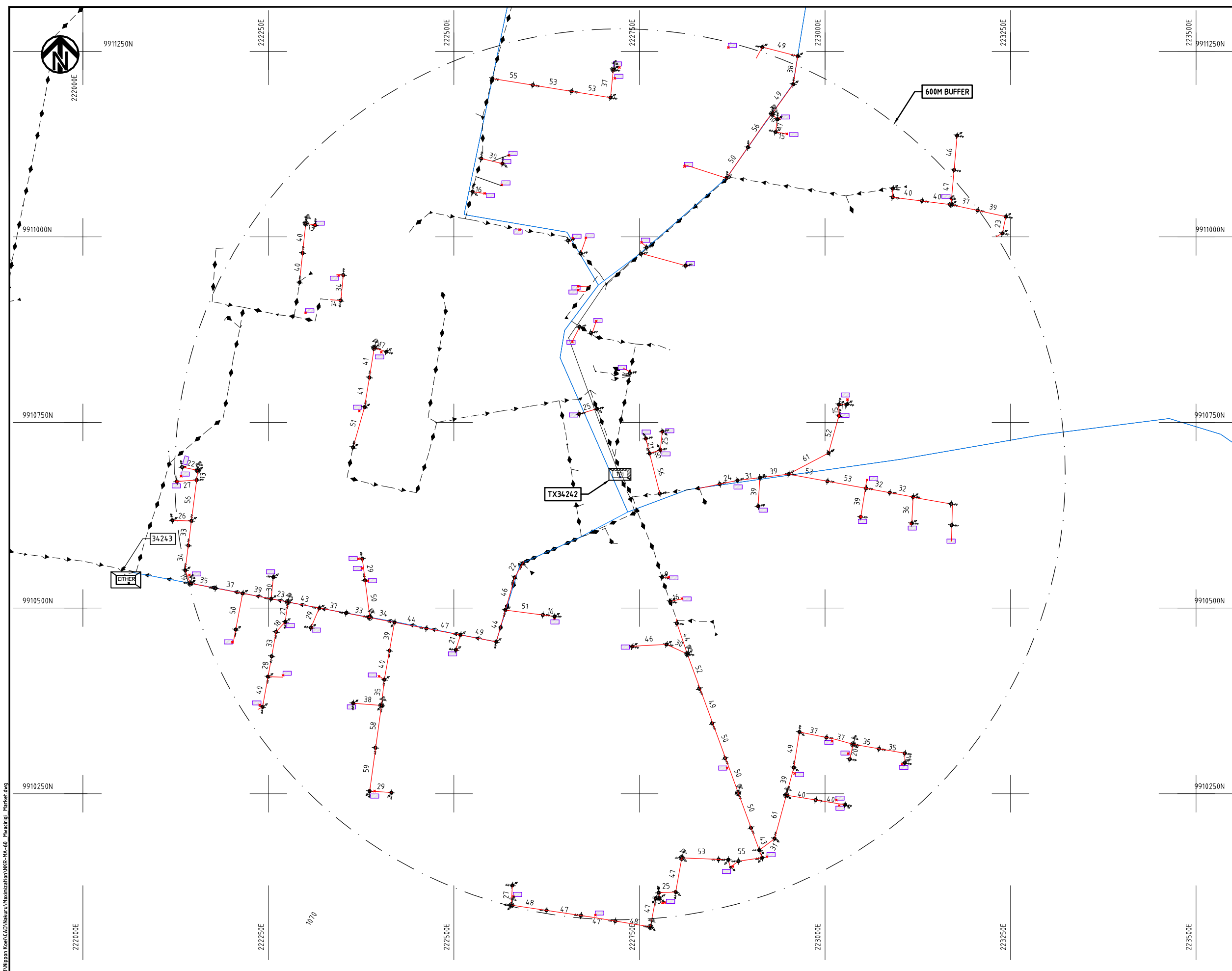
- LEGEND**
- HOUSEHOLDS/ BUILDINGS
 - PROPOSED DISTRIBUTION LINE
 - EXISTING 11kV LINE
 - EXISTING 33kV LINE
 - EXISTING DISTRIBUTION LINE
 - MAXIMISATION TRANSFORMER
 - EXTENSION TRANSFORMER
 - OTHER EXISTING TRANSFORMER
 - WOODEN ELECTRIC POLES
 - CONCRETE ELECTRIC POLES
 - LV-EARTH
 - PME -PROTECTIVE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



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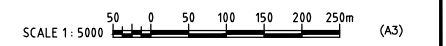
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|--|--|--|-----------|-------------|---------------|
| PROJECT: THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA | DRAWING TITLE | | DRAW. NO. | PREPARED BY | A.AKBAR |
| | COUNTY: NAKURU SCHEME: MAXIMIZATION PROJECT SITE: 05284 - LOCAL TX_GILGIL S /S | | NKR-MA-59 | 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



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

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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: 34242-MWICIRIGI MARKET | | NKR-MA-60 | CHECKED BY | S.MAETA |
| | | | | APPROVED BY | Y.TANAKA |
| | | | | DATE | 10th SEP 2018 |





9932500N
124.750E

125000E

125250E

125500E

125750E

126000E

126250E

9932250N

9932250N

9932000N

9932000N

9931750N

9931750N

9931500N

9931500N

124.750E

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125250E

125500E

125750E

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126250E

600M BUFFER_50428
- SIMOTWET PRIMARY

TX50428

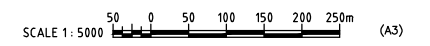
TX14558

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



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: 50428-SIMOTWET PRI SCHOOL

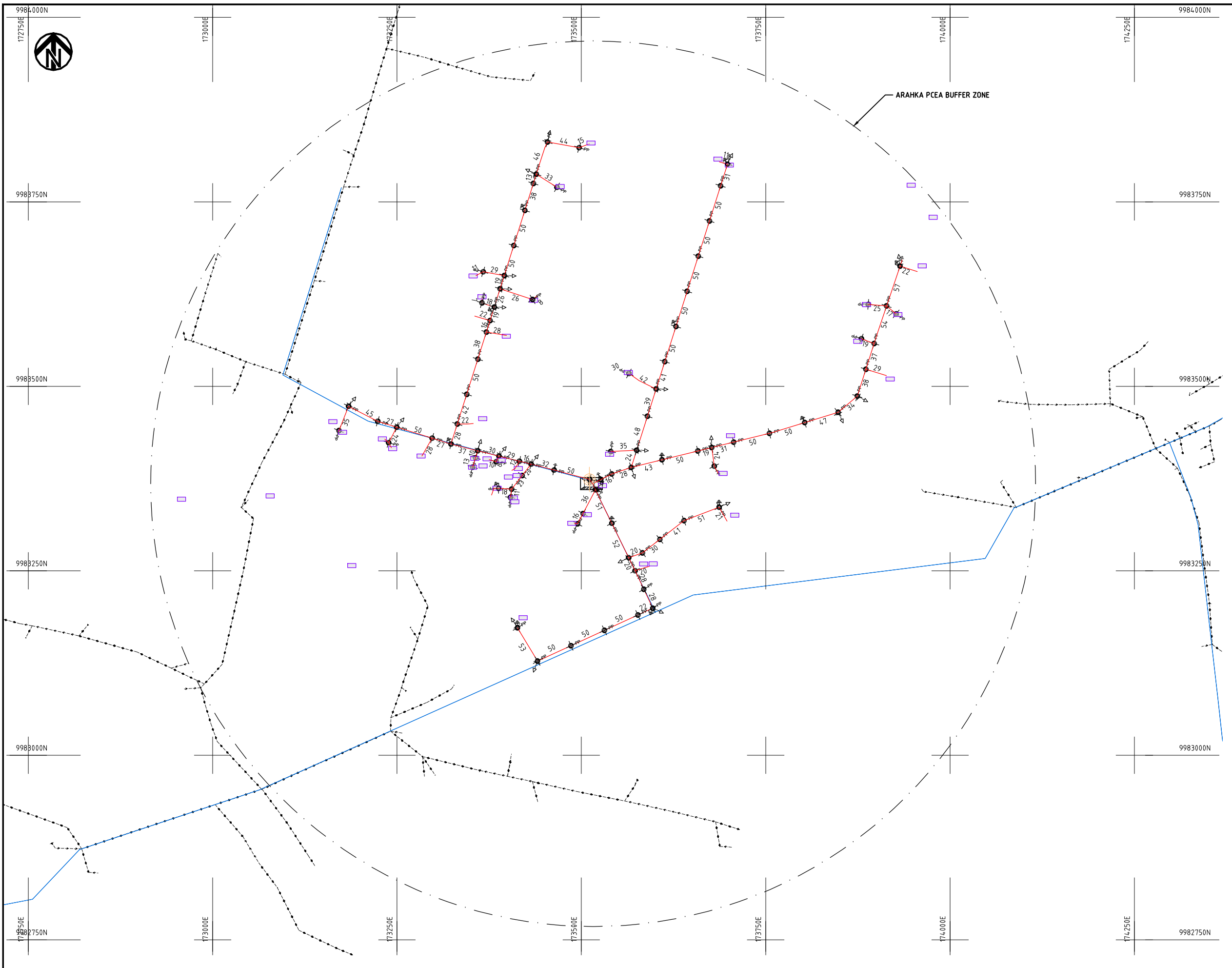
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| DRAW. NO. | PREPARED BY | A.AKBAR |
| NKR-MA-61 | CHECKED BY | S.MAETA |
| | APPROVED BY | Y.TANAKA |
| | DATE | 10th SEP 2018 |



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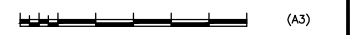
ナクル郡

Extension and Maximization



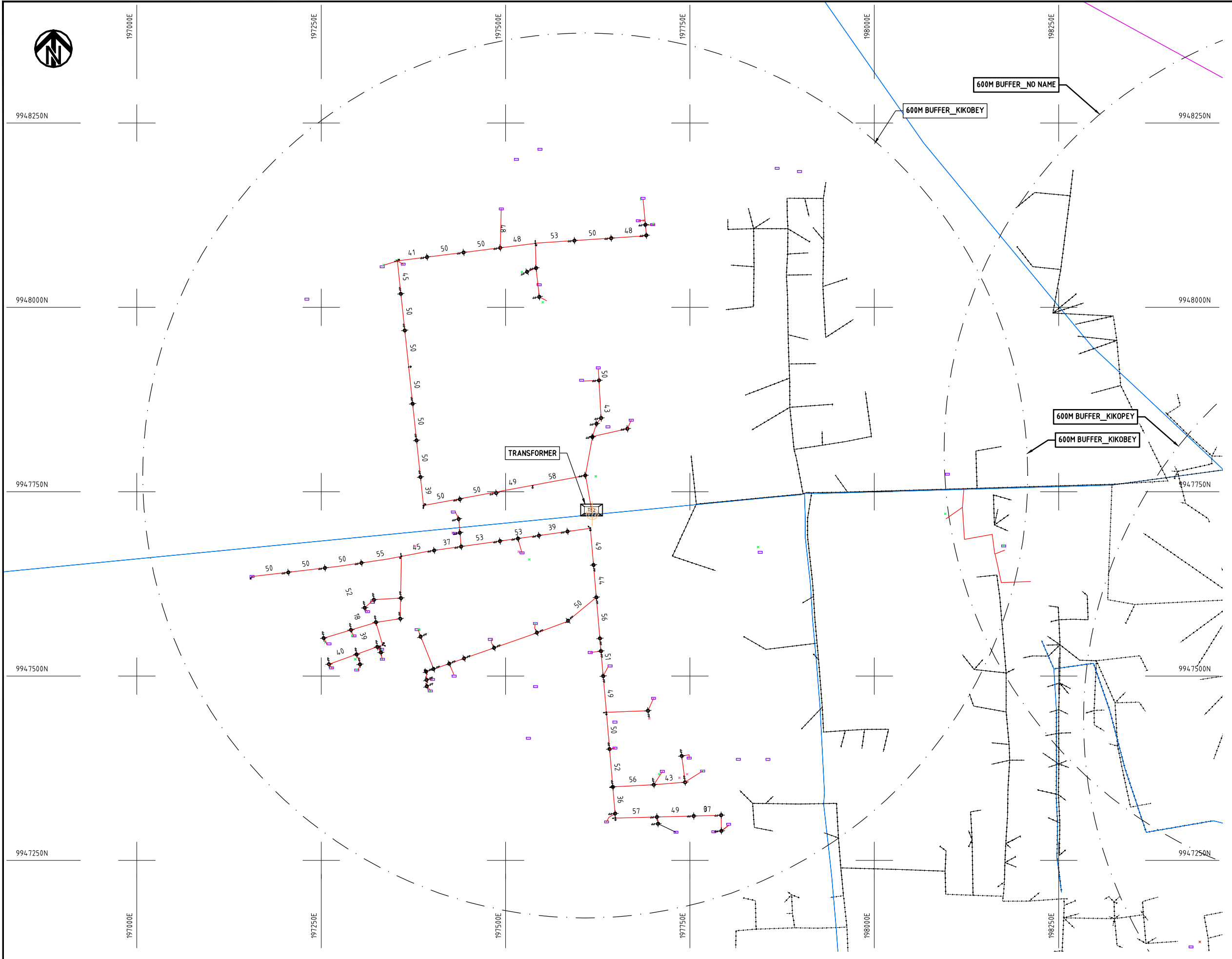
- NOTES:**
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.

| | |
|--|--|
| | 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 |
| | CP CONCRETE ELECTRIC POLES 12M |
| | CP CONCRETE ELECTRIC POLES 11M |
| | LV-EARTH |
| | PME -PROTECTIVE MULTIPLE EARTHING STAY |



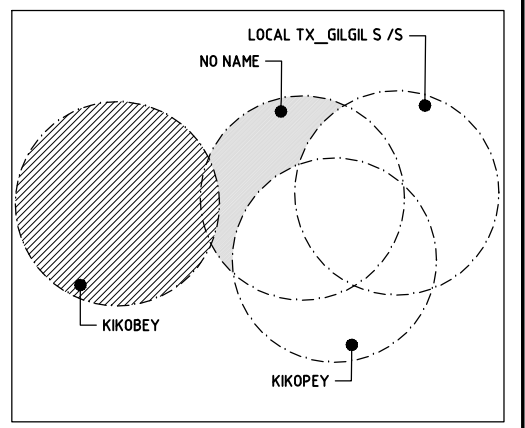
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| PROJECT: THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA | DRAWING TITLE | | DRAW. NO. | PREPARED BY | A.AKBAR |
| | COUNTY: NAKURU | | NKR-EX-1 | CHECKED BY | S.MAETA |
| SCHEME: EXTENSION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



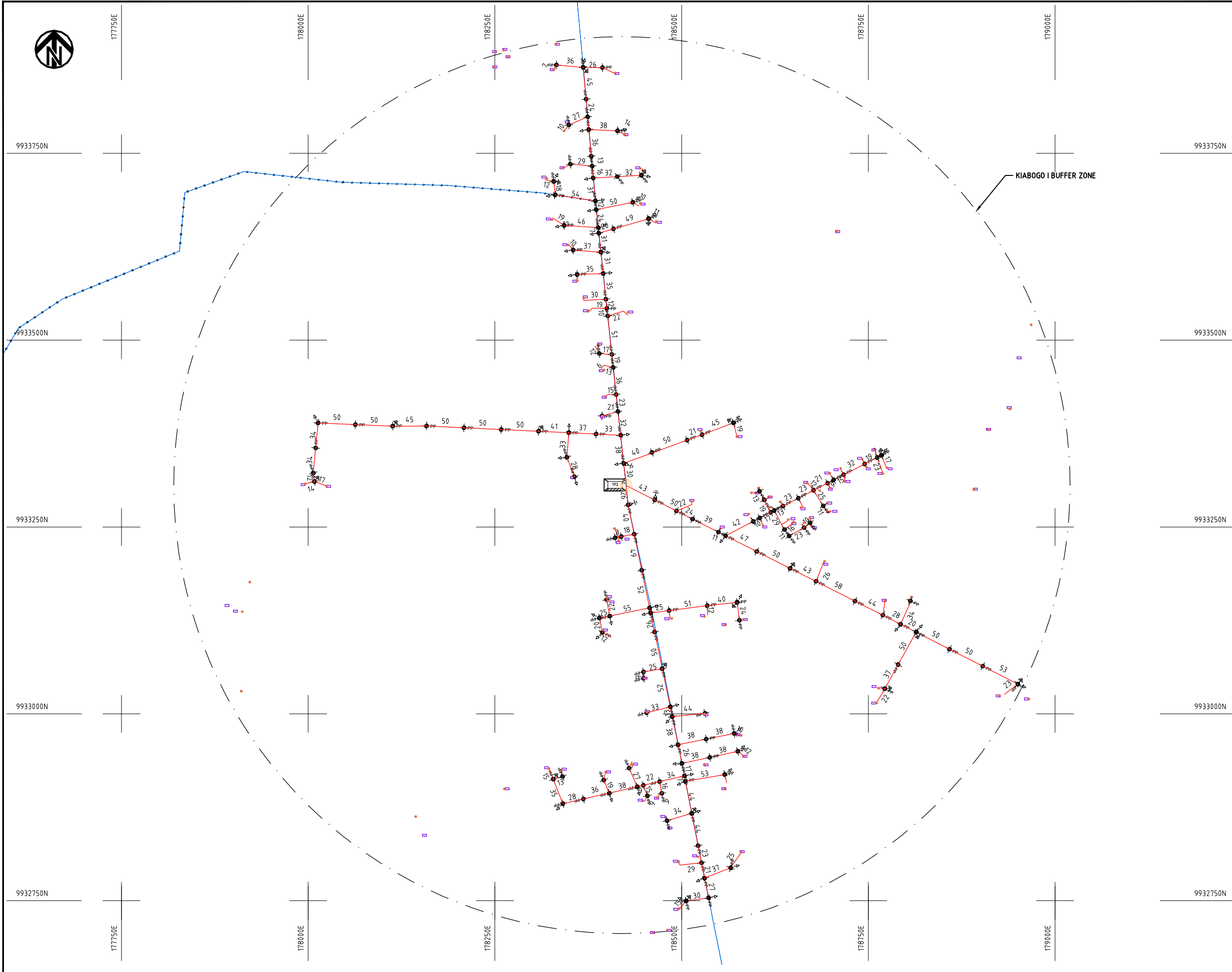
KEY PLAN

- 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
- 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:

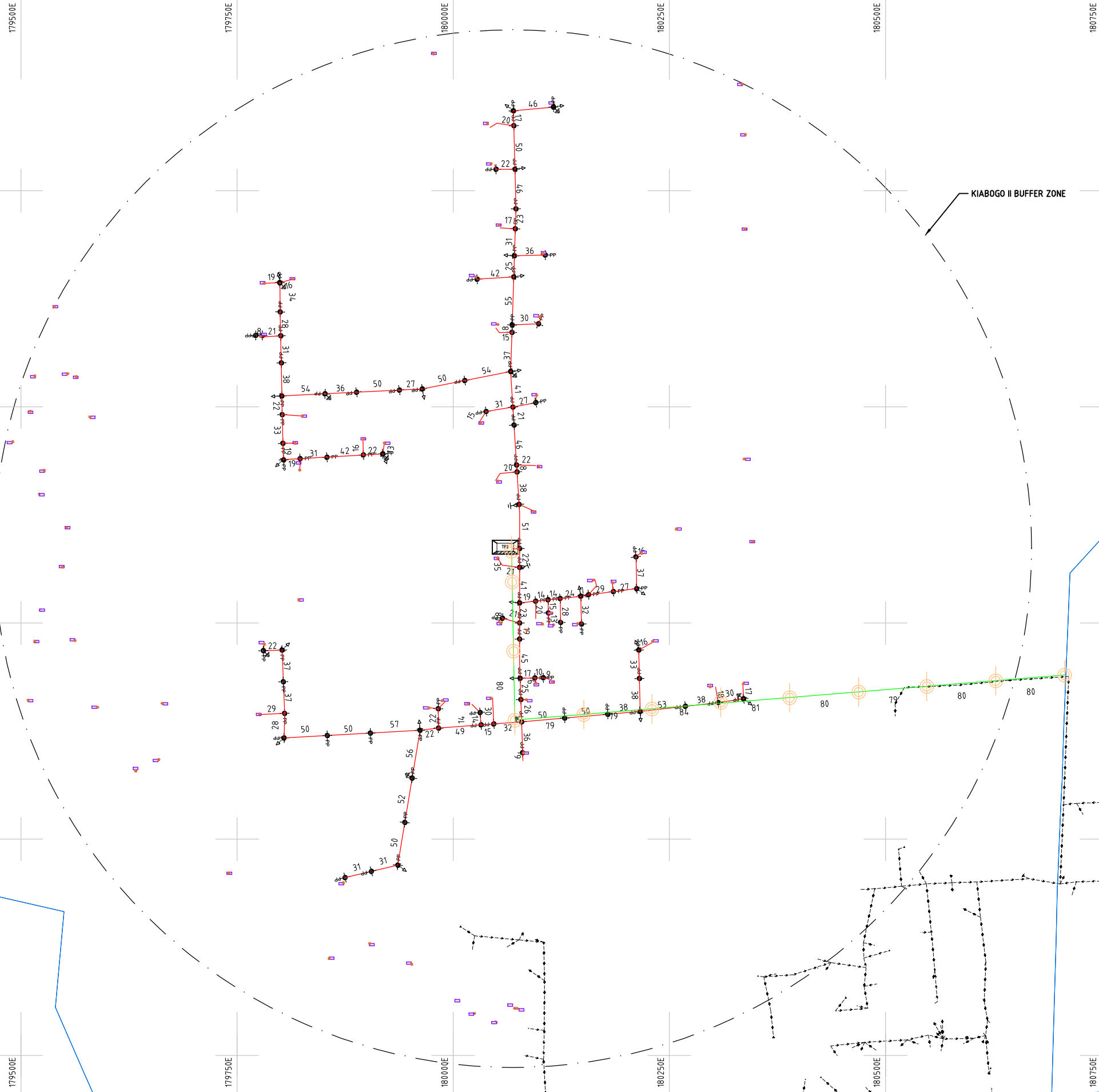
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
2. CONCRETE / WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.

| | |
|--|--|
| | HOUSEHOLDS/ BUILDINGS |
| | PROPOSED 11kV |
| | Proposed 33kV |
| | PROPOSED DISTRIBUTION LINE |
| | EXISTING 11kV LINE |
| | EXISTING 33kV LINE |
| | EXISTING DISTRIBUTION LINE |
| | MAXIMISATION TRANSFORMER |
| | EXTENSION TRANSFORMER |
| | 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 | | NKR-EX-3 | CHECKED BY | S.MAETA |
| SCHEME: EXTENSION | | APPROVED BY | | Y.TANAKA | |
| PROJECT SITE: KIAMBOGO I | | 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
 COUNTY: NAKURU
 SCHEME: EXTENSION
 PROJECT SITE: KIABOGO II

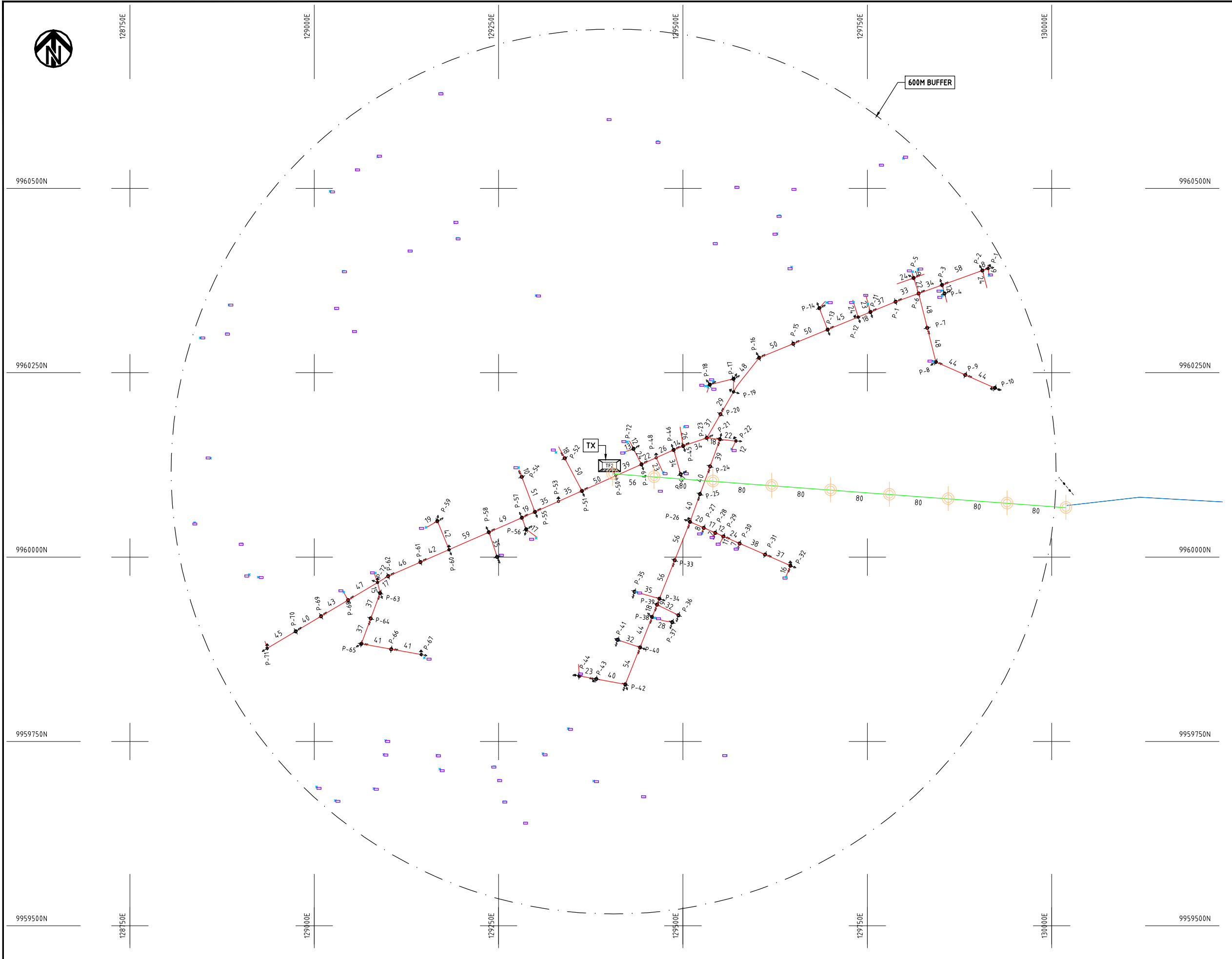
DRAW. NO. NKR-EX-4
 PREPARED BY A.AKBAR
 CHECKED BY S.MAETA
 APPROVED BY Y.TANAKA
 DATE 10th SEP 2018

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.

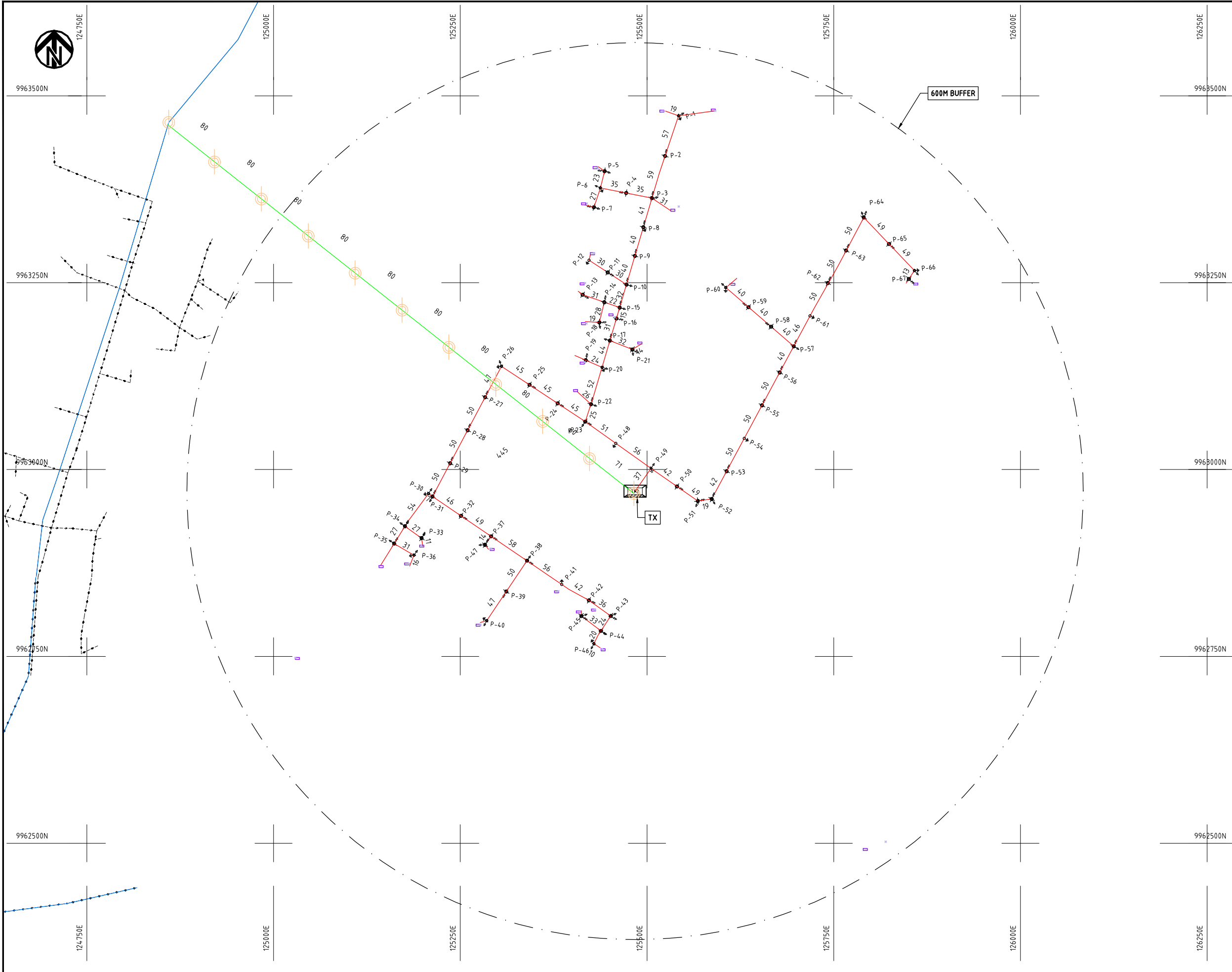


| | |
|--|--|
| | HOUSEHOLDS/ BUILDINGS |
| | PROPOSED 11kV |
| | Proposed 33kV |
| | PROPOSED DISTRIBUTION LINE |
| | EXISTING 11kV LINE |
| | EXISTING 33kV LINE |
| | EXISTING DISTRIBUTION LINE |
| | MAXIMISATION TRANSFORMER |
| | EXTENSION TRANSFORMER |
| | WOODEN ELECTRIC POLES |
| | CONCRETE ELECTRIC 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: KARIRIKANIA | | NKR-EX-5 | CHECKED BY | S.MAETA |
| | | | | APPROVED BY | Y.TANAKA |
| | | | | DATE | 10th SEP 2018 |





NOTES:

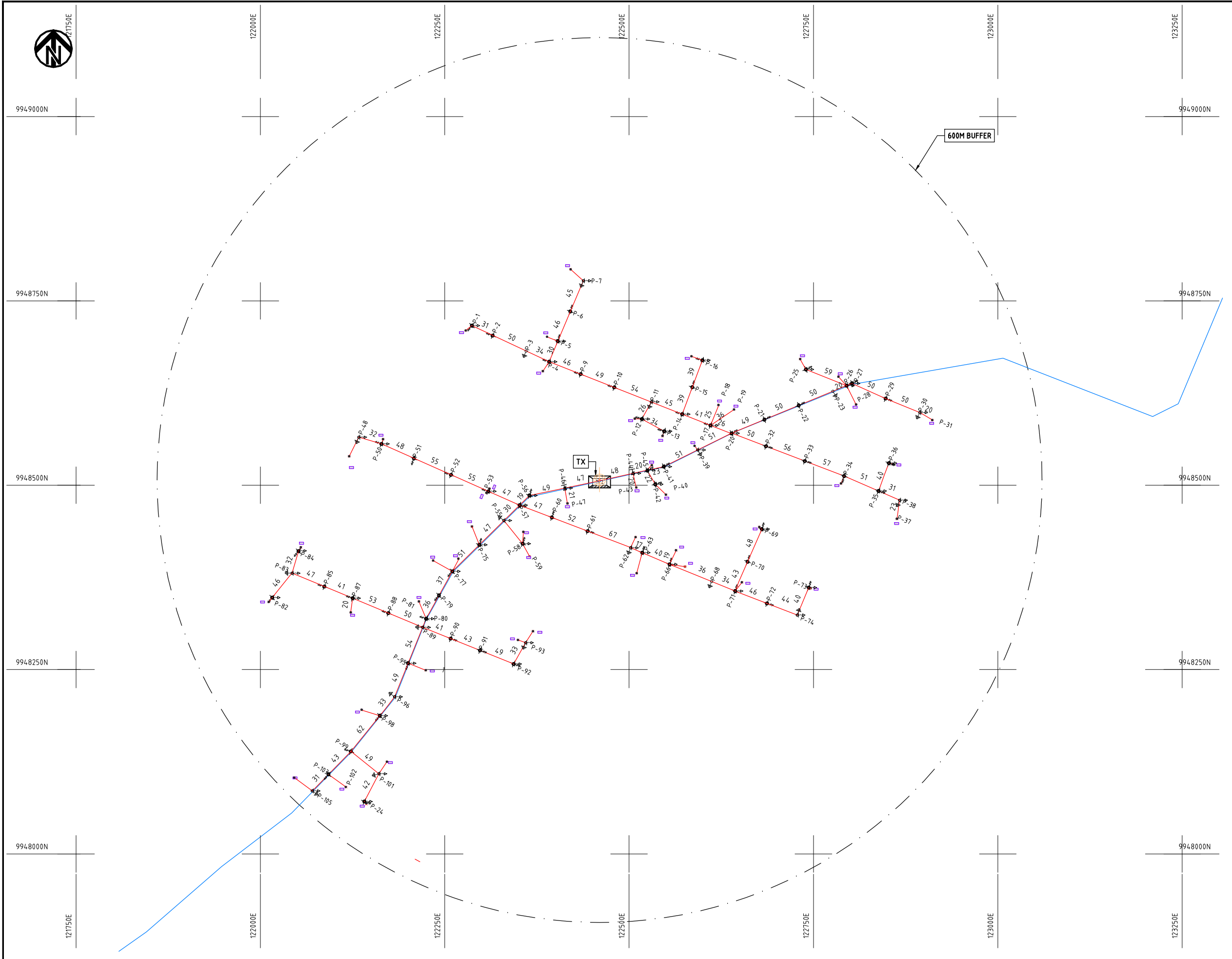
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
2. CONCRETE / WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.

| | |
|--|--|
| | 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 |
| | CONCRETE ELECTRIC POLES 12M |
| | CONCRETE ELECTRIC POLES 11M |
| | LV-EARTH |
| | PME -PROTECTIVE MULTIPLE EARTHING STAY |



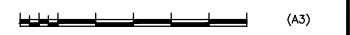
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|--|------------------------------|--|-----------|-------------|---------------|
| PROJECT: THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA | DRAWING TITLE | | DRAW. NO. | PREPARED BY | A.AKBAR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





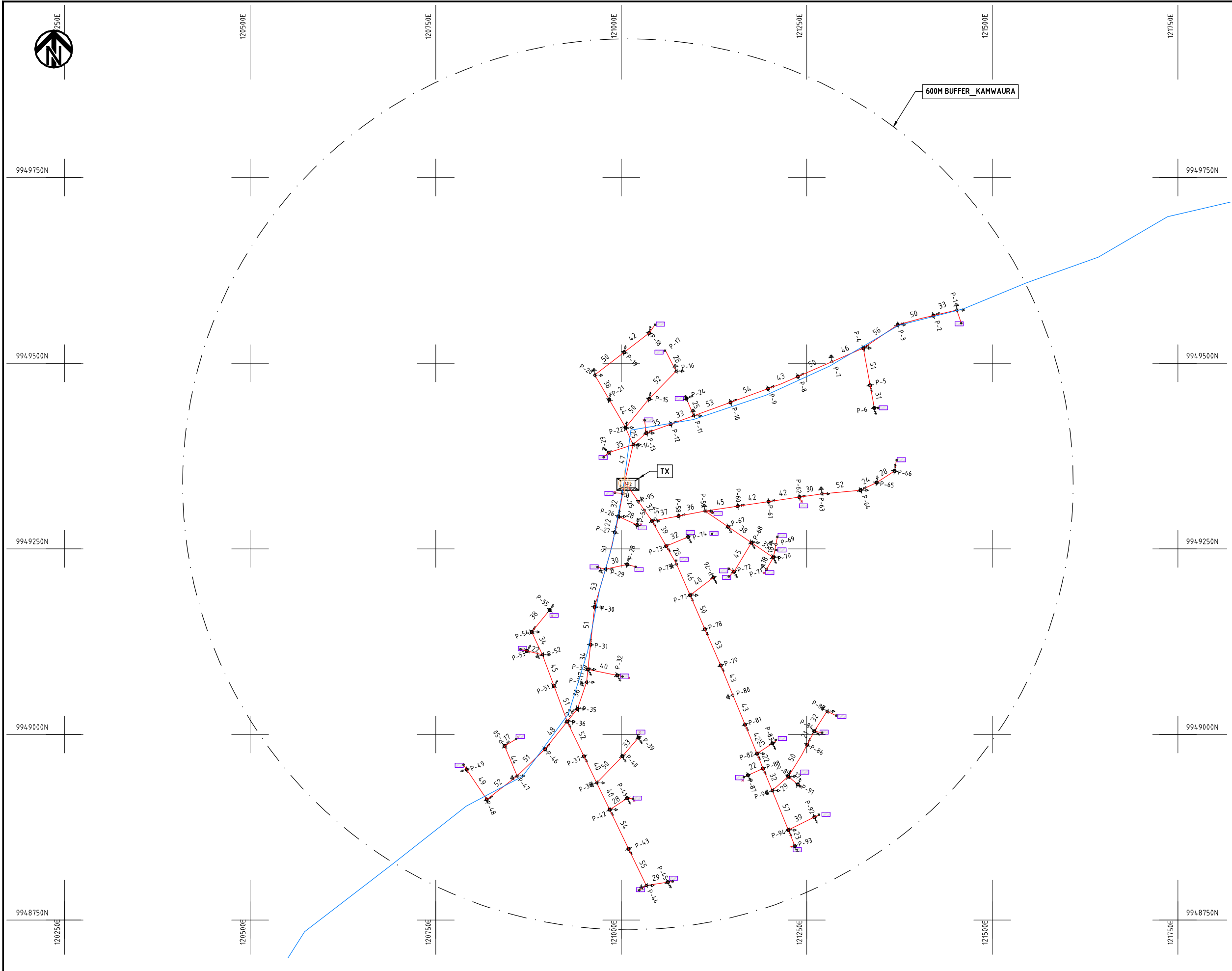
- NOTES:**
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.

| | |
|--|--|
| | 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 |
| | 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: KOITABA | | NKR-EX-7 | CHECKED BY | S.MAETA |
| | | | | APPROVED BY | Y.TANAKA |
| | | | | DATE | 10th SEP 2018 |

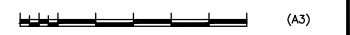




NOTES:

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 |
| | 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: KAMWAURA | | NKR-EX-8 | CHECKED BY | S.MAETA |
| | | | | APPROVED BY | Y.TANAKA |
| | | | | DATE | 10th SEP 2018 |





9952000N

9951750N

9951500N

9951250N

9951000N

120750E

121000E

121250E

121500E

121750E

122000E

600M BUFFER_CHEMANER

9952000N

9951750N

9951500N

9951250N

9951000N

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: CHEMANER

| | | |
|-----------|-------------|---------------|
| DRAW. NO. | PREPARED BY | A.AKBAR |
| NKR-EX-9 | CHECKED BY | S.MAETA |
| | APPROVED BY | Y.TANAKA |
| | DATE | 10th SEP 2018 |





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
- 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

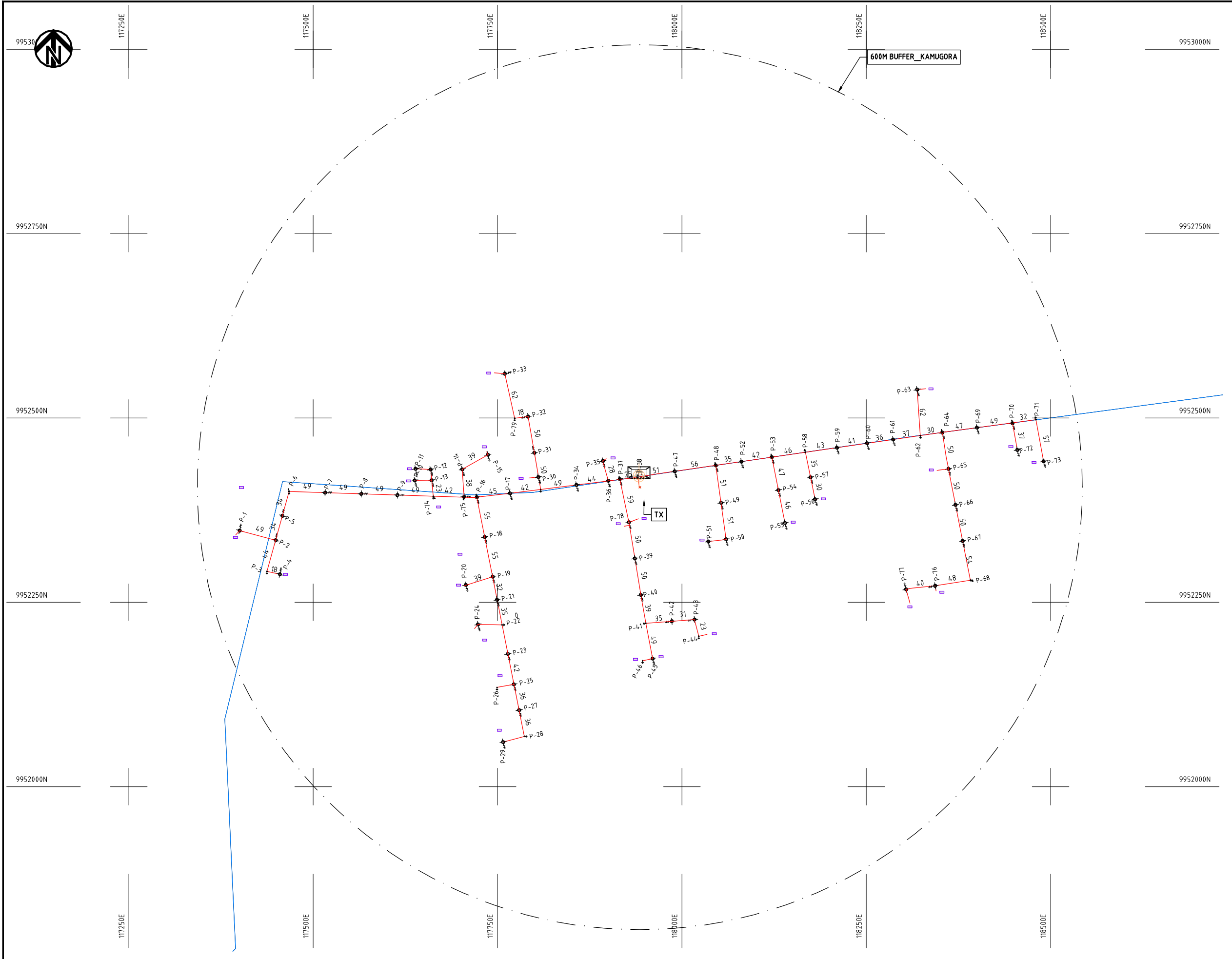
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|-----------|-------------|---------------|
| DRAW. NO. | PREPARED BY | A.AKBAR |
| NKR-EX-10 | CHECKED BY | S.MAETA |
| | APPROVED BY | Y.TANAKA |
| | DATE | 10th SEP 2018 |





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.



| | |
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| | 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: KAMUGORA | | NKR-EX-11 | CHECKED BY | S.MAETA |
| | | | | APPROVED BY | Y.TANAKA |
| | | | | DATE | 10th SEP 2018 |





124750E

125000E

125250E

125500E

125750E

126000E

126250E

9958000N

9958000N

9957750N

9957750N

9957500N

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9957000N

124750E

125000E

125250E

125500E

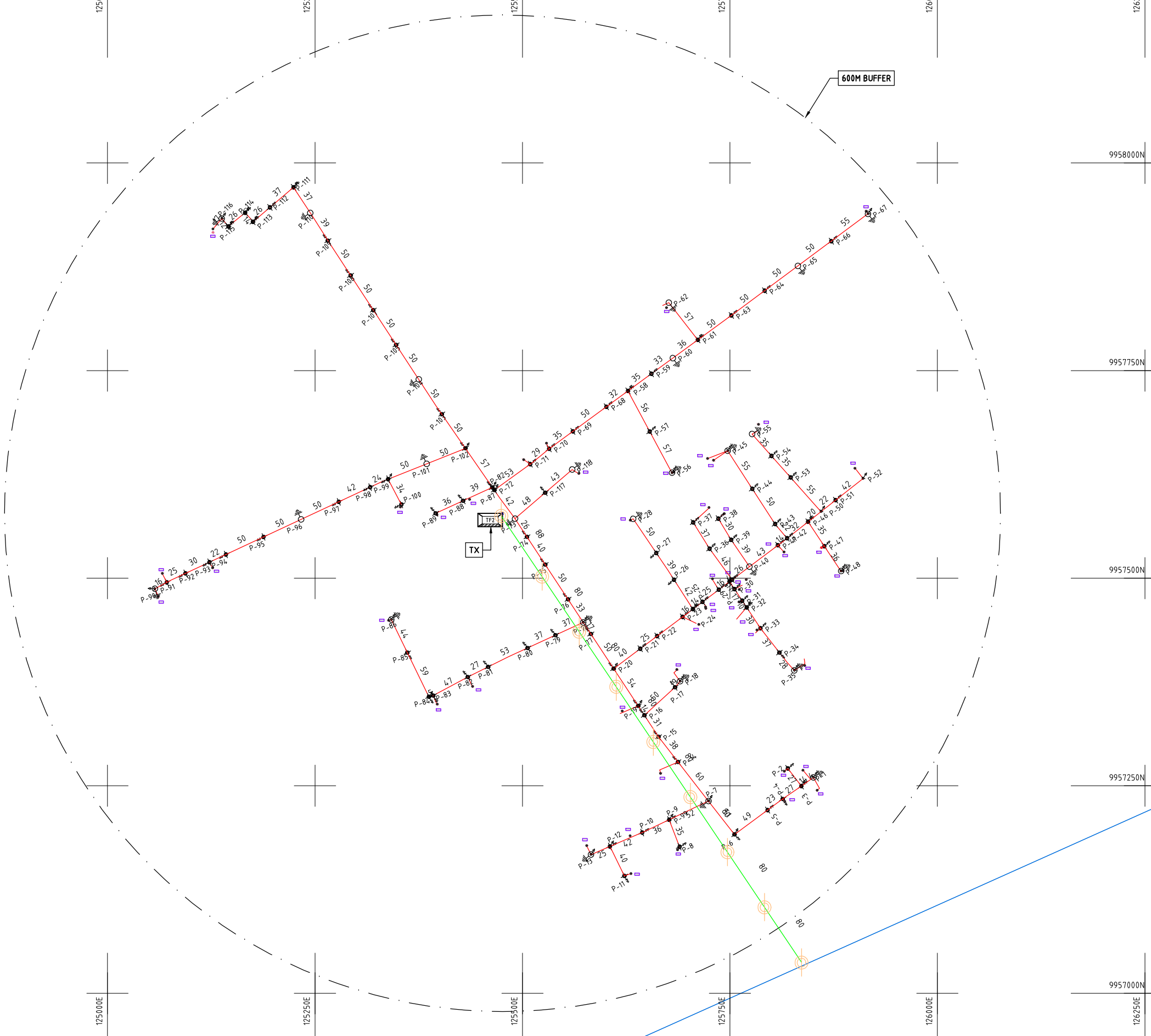
125750E

126000E

126250E

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

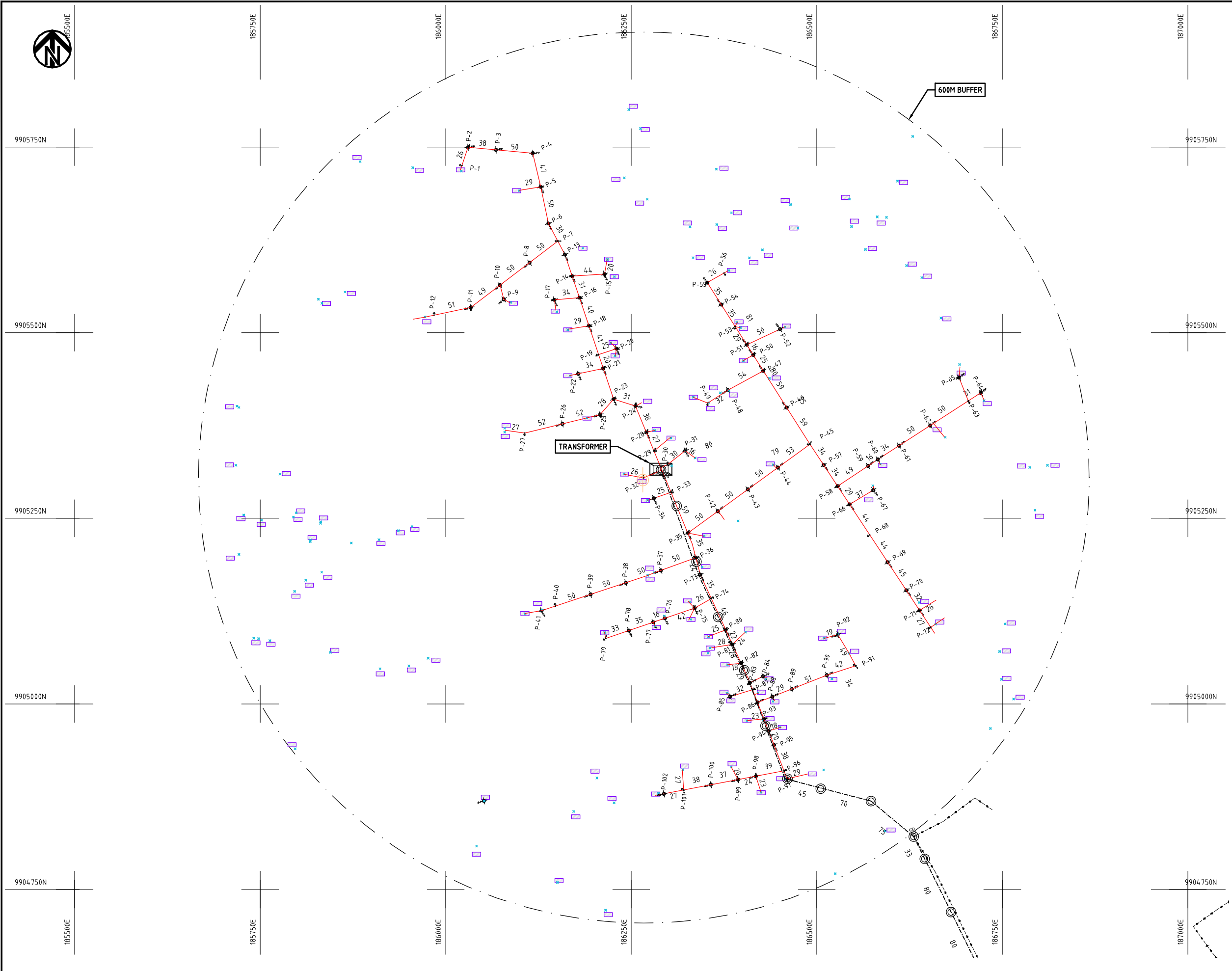


PROJECT:
**THE PREPARATORY SURVEY
 ON THE PROJECT FOR IMPROVEMENT
 OF POWER DISTRIBUTION SYSTEM
 IN THE REPUBLIC OF KENYA**

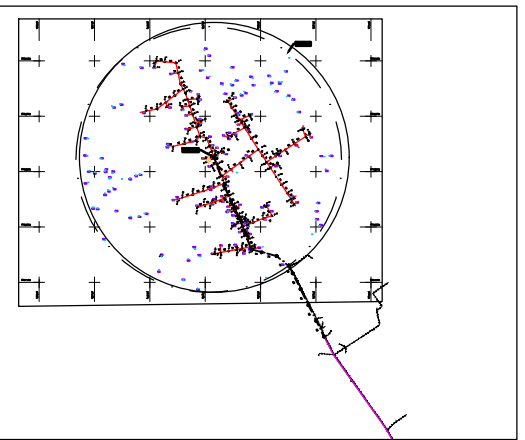
DRAWING TITLE
 COUNTY: NAKURU
 SCHEME: EXTENSION
 PROJECT SITE: LAKWENDA

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

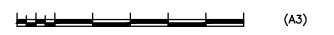




- NOTES:**
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.



- 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

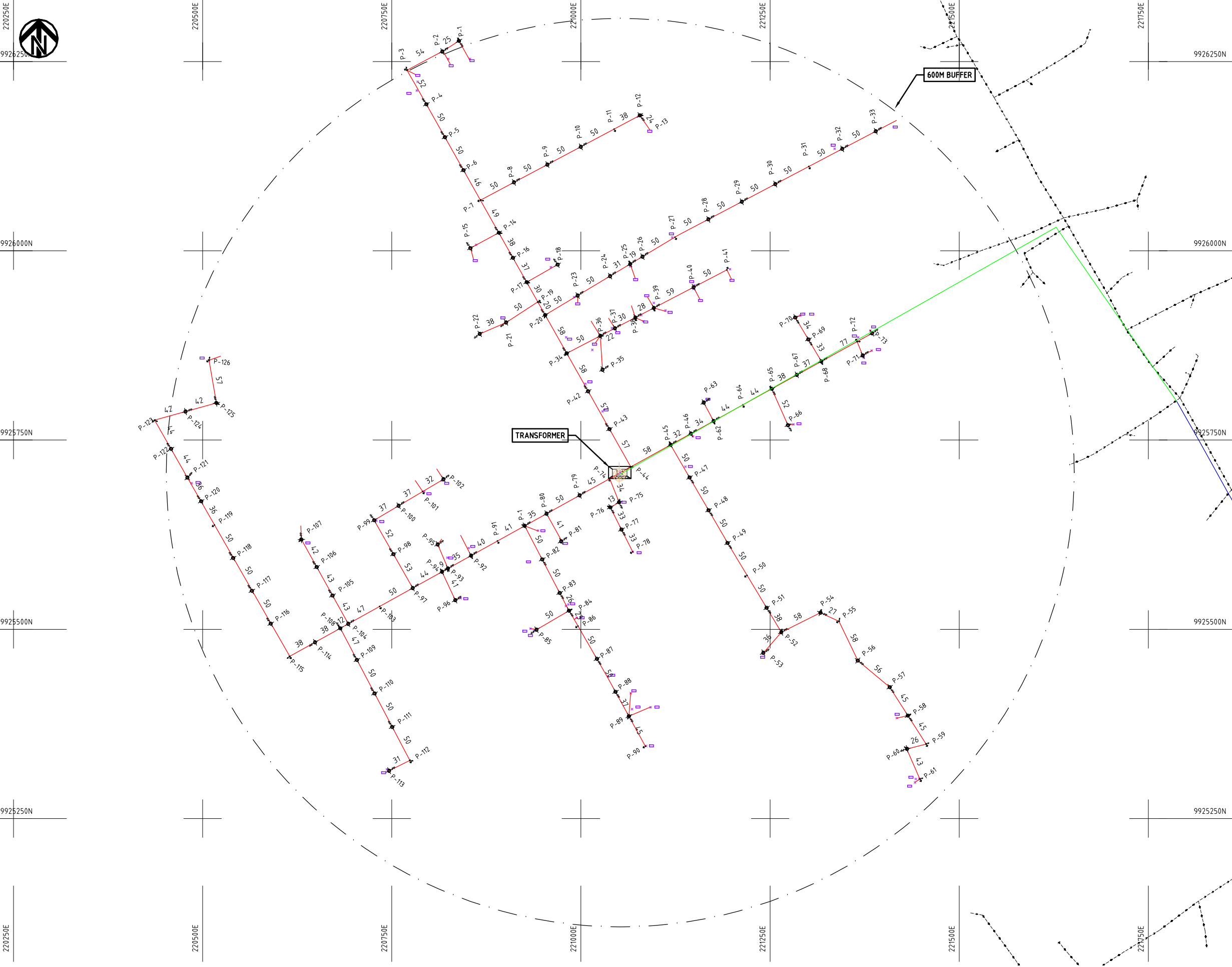


PROJECT:
**THE PREPARATORY SURVEY
 ON THE PROJECT FOR IMPROVEMENT
 OF POWER DISTRIBUTION SYSTEM
 IN THE REPUBLIC OF KENYA**

DRAWING TITLE
 COUNTY: NAKURU
 SCHEME: EXTENSION
 PROJECT SITE: MAELA

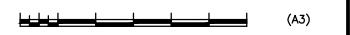
DRAW. NO. NKR-EX-13
 PREPARED BY A.AKBAR
 CHECKED BY S.MAETA
 APPROVED BY Y.TANAKA
 DATE 10th SEP 2018





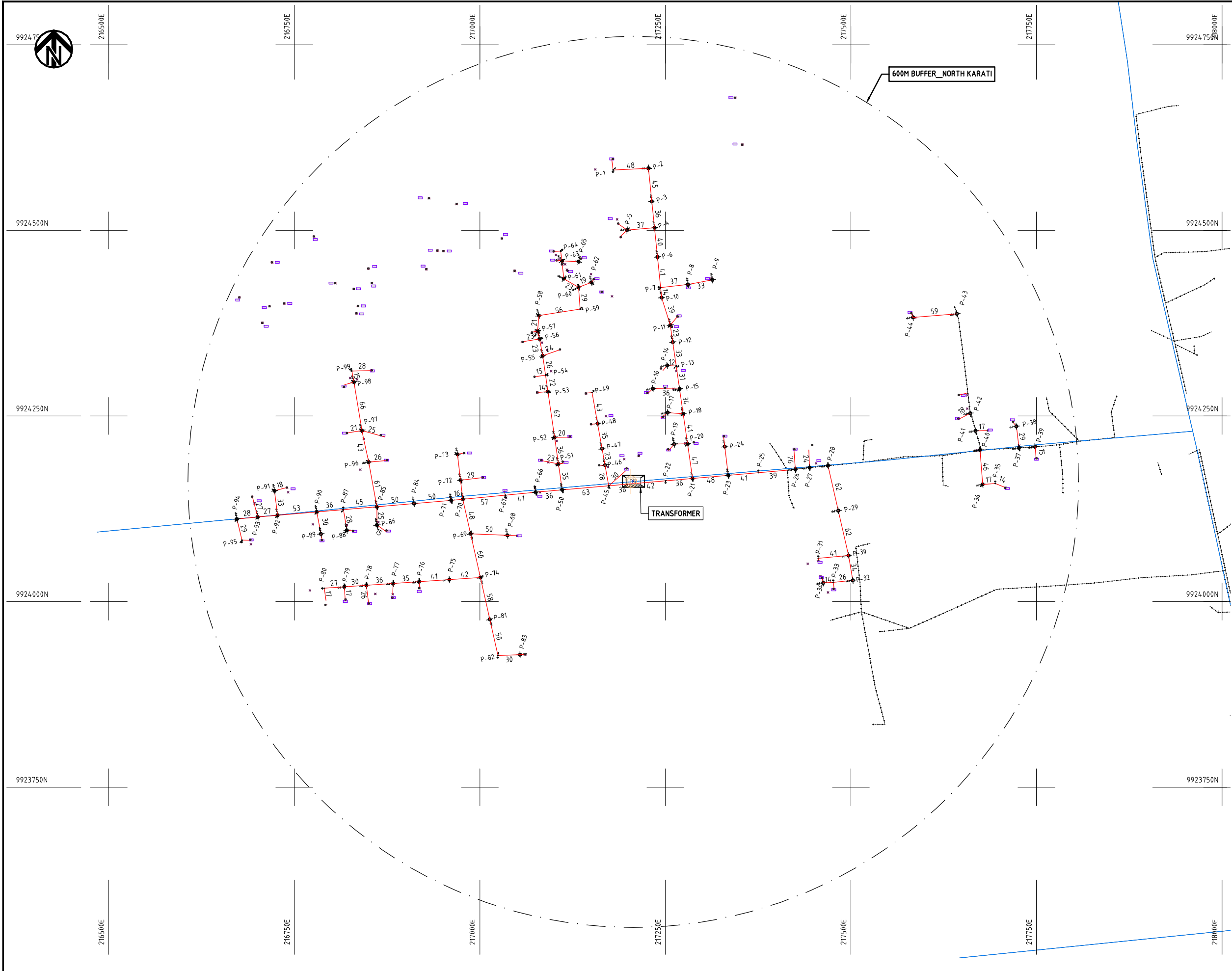
- NOTES:**
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.

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





600M BUFFER NORTH KARATI

TRANSFORMER

NOTES:

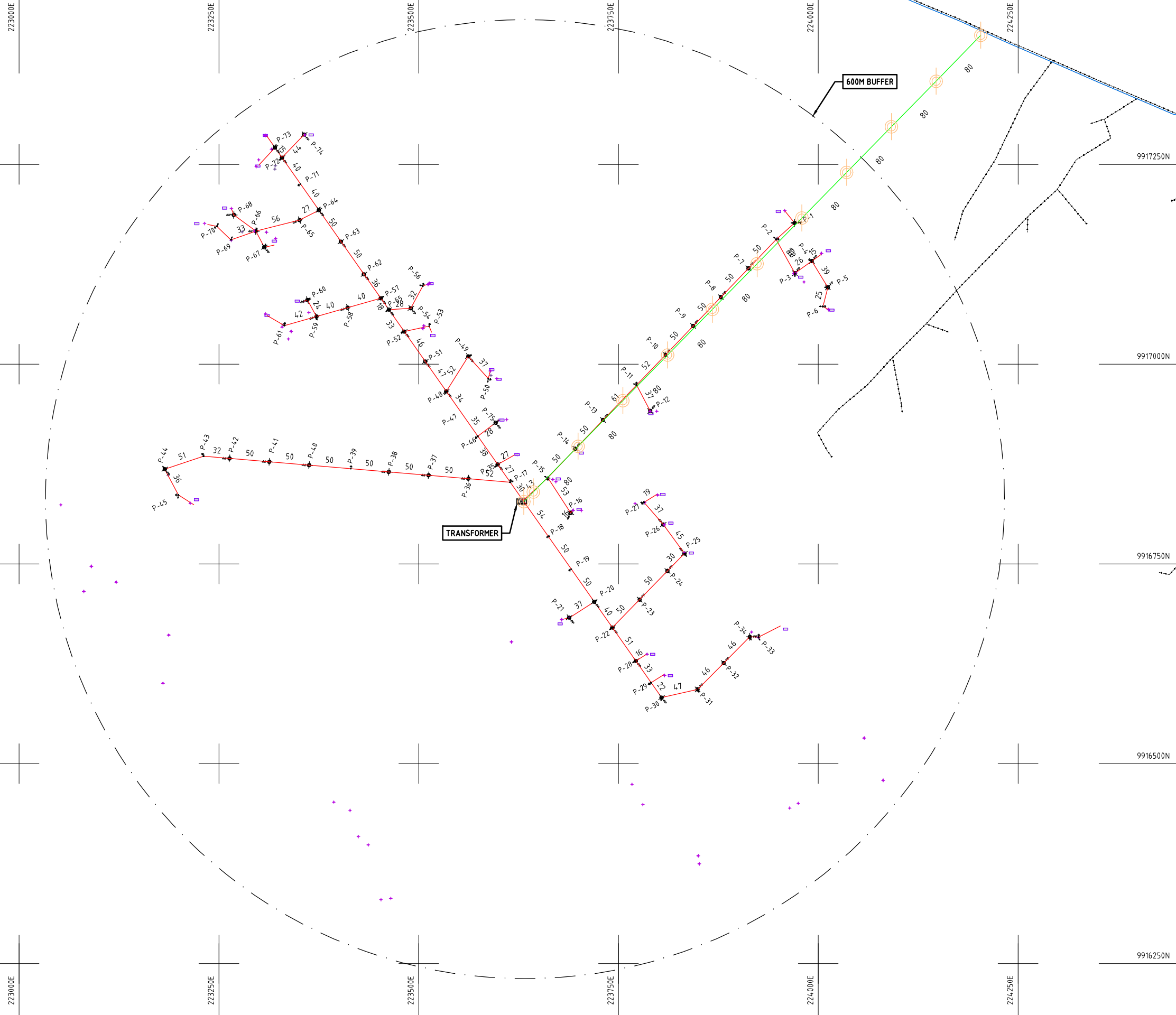
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.

- 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



| | | | | | |
|--|---|--|-----------|-------------|---------------|
| 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: NORTH KARATI | | NKR-EX-15 | CHECKED BY | S.MAETA |
| | | | | APPROVED BY | Y.TANAKA |
| | | | | DATE | 10th SEP 2018 |

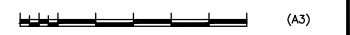




NOTES:

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 COUNTY: NAKURU SCHEME: EXTENSION PROJECT SITE: MARAIGUSHO | DRAW. NO. NKR-EX-16 | PREPARED BY A.AKBAR | CHECKED BY S.MAETA | APPROVED BY Y.TANAKA | DATE 10th SEP 2018 |
|--|---|------------------------|------------------------|-----------------------|-------------------------|-----------------------|





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

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

COUNTY: NAKURU
SCHEME: EXTENSION
PROJECT SITE: MWICHINGIRI

DRAW. NO.

NKR-EX-17

PREPARED BY

A.AKBAR

CHECKED BY

S.MAETA

APPROVED BY

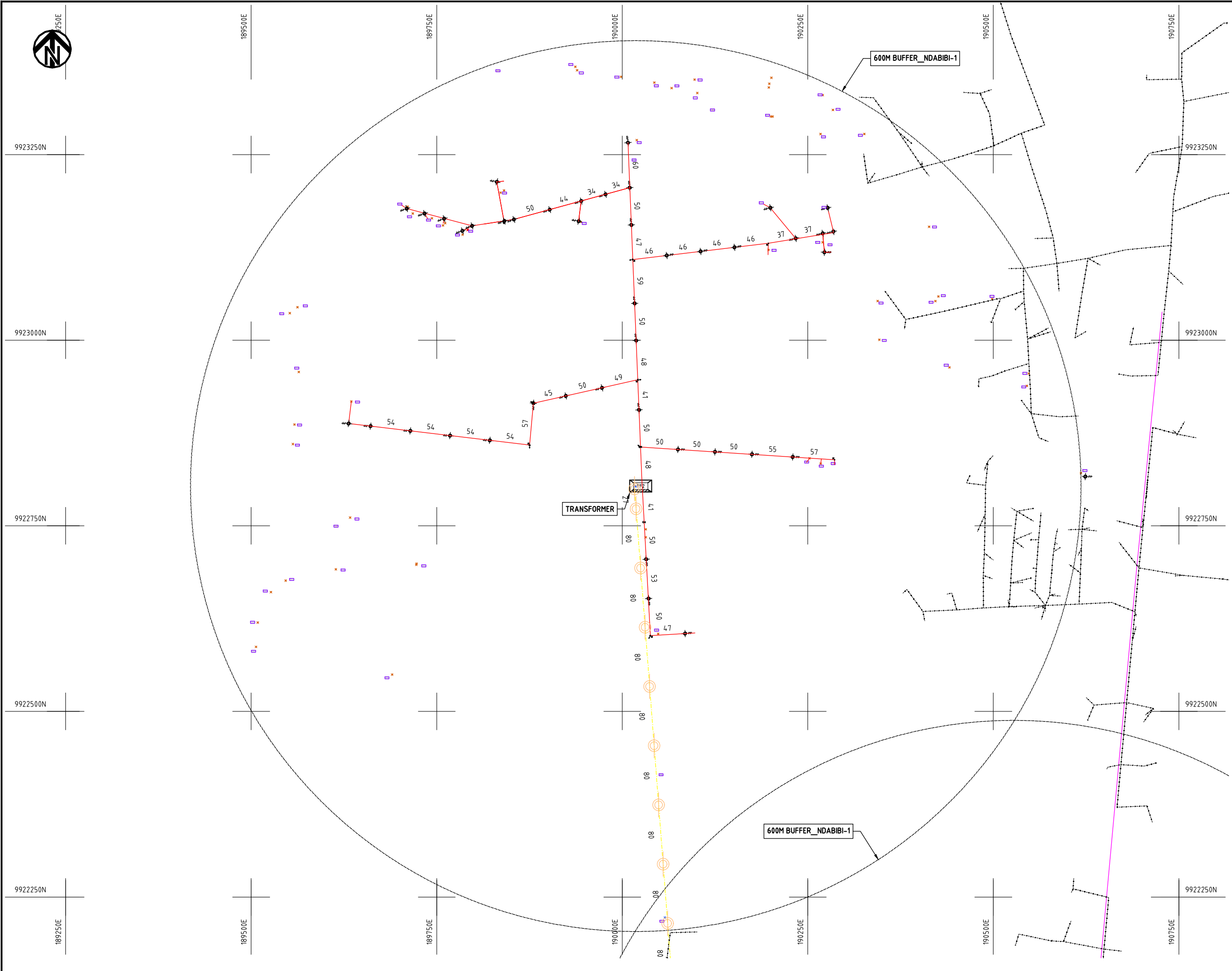
Y.TANAKA

DATE

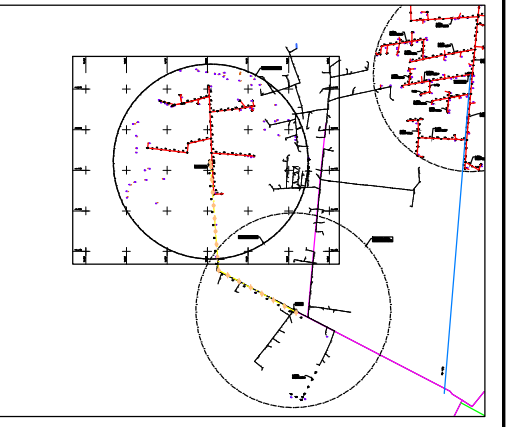
10th SEP 2018



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
- 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-18 | CHECKED BY | S.MAETA |
| SCHEME: EXTENSION | | APPROVED BY | | Y.TANAKA | |
| PROJECT SITE: NDABIBI 1 | | | DATE | 10th SEP 2018 | |





191000E

191250E

191500E

191750E

192000E

192250E

9923750N

9923500N

9923250N

9923000N

9922750N

191000E

191250E

191500E

191750E

192000E

192250E

9923750N

9923500N

9923250N

9923000N

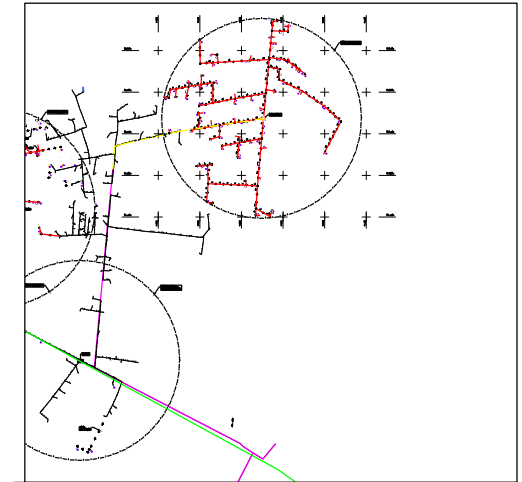
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600M BUFFER_NDABIBI-2

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
- 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

COUNTY: NAKURU
SCHEME: EXTENSION
PROJECT SITE: NDABIBI 2

DRAW. NO.

NKR-EX-19

PREPARED BY

A.AKBAR

CHECKED BY

S.MAETA

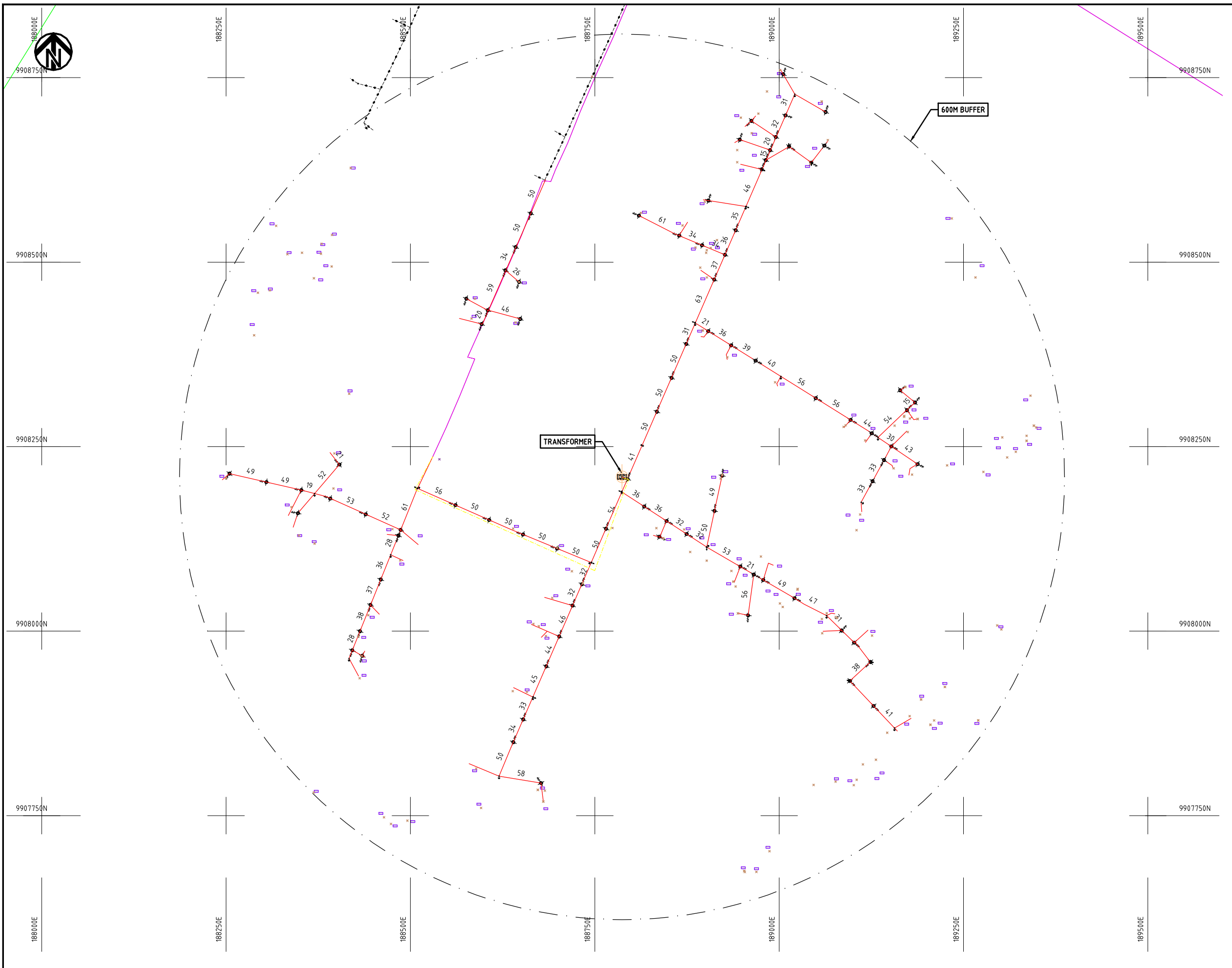
APPROVED BY

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.

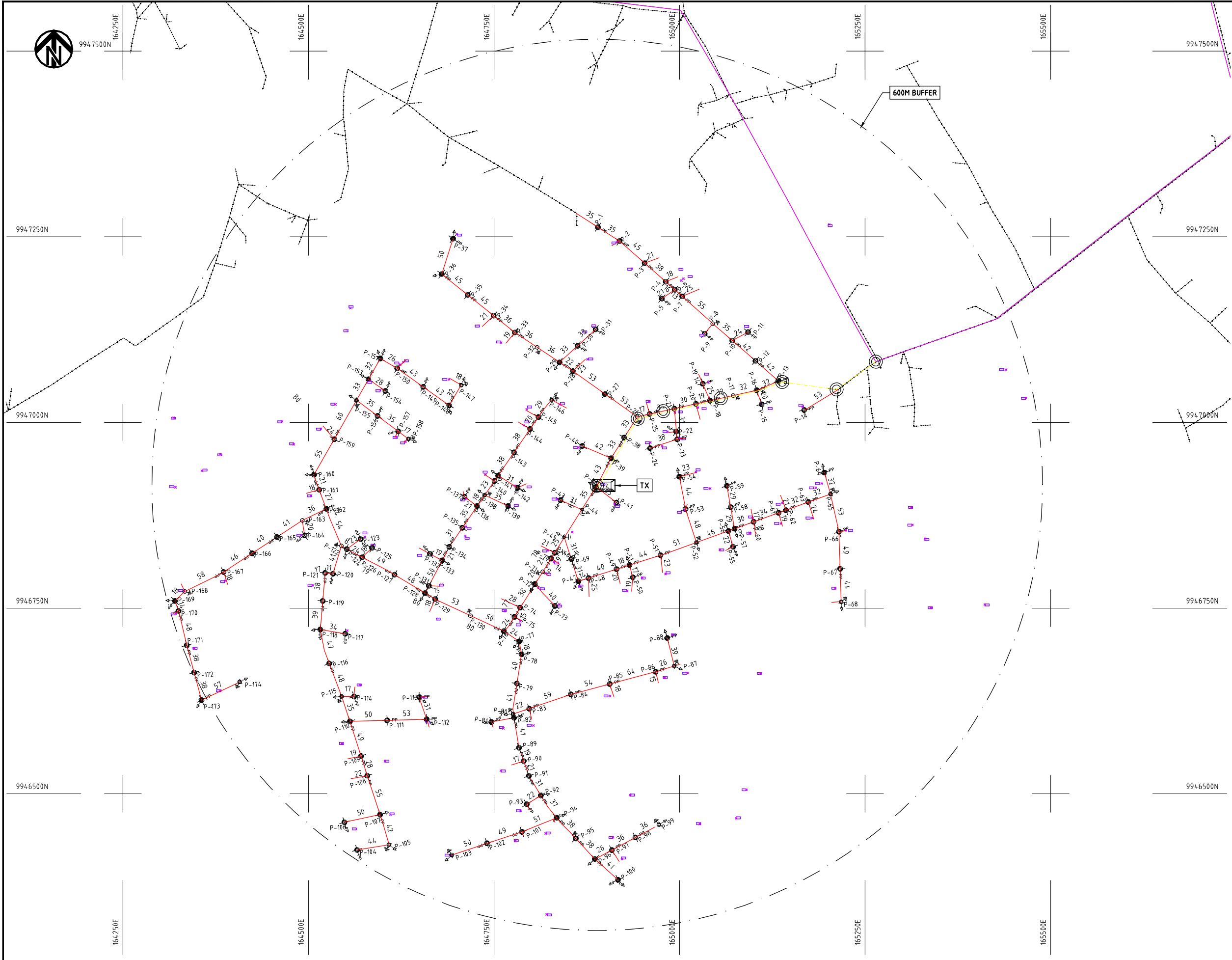
- HOUSEHOLDS/ BUILDINGS
- PROPOSED 11kV
- Proposed 33kV
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES 12M
- CONCRETE ELECTRIC POLES 11M
- LV-EARTH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



| | | | | | |
|--|---|---------------|-----------|-------------|---------|
| 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: NGONDI | | DRAW. NO. | PREPARED BY | A.AKBAR |
| | | | NKR-EX-20 | CHECKED BY | S.MAETA |
| | APPROVED BY | Y.TANAKA | | | |
| | DATE | 10th SEP 2018 | | | |

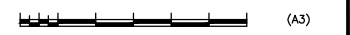


(A3)



- 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
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES 12M
- CONCRETE ELECTRIC POLES 11M
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING STAY

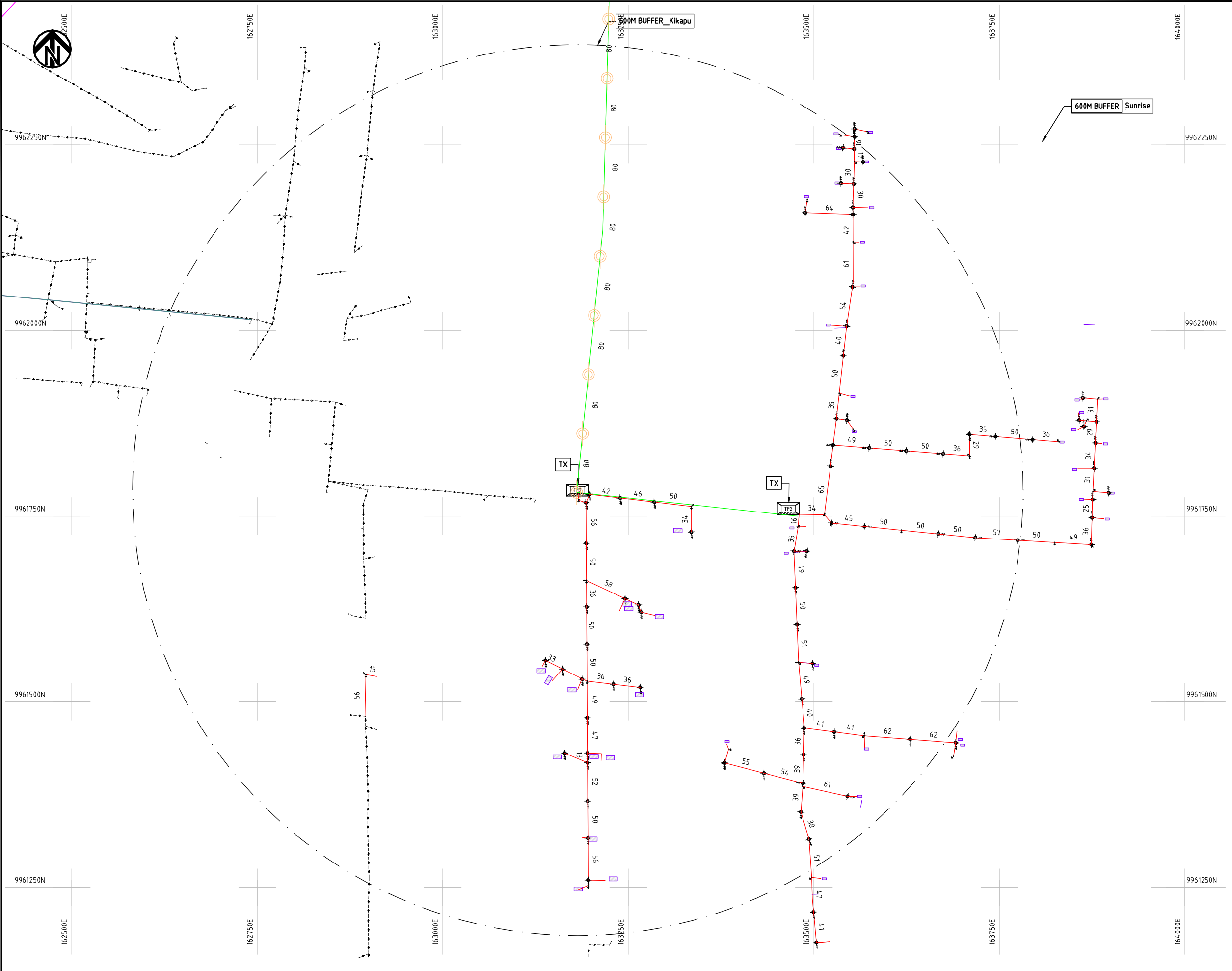


PROJECT:
**THE PREPARATORY SURVEY
 ON THE PROJECT FOR IMPROVEMENT
 OF POWER DISTRIBUTION SYSTEM
 IN THE REPUBLIC OF KENYA**

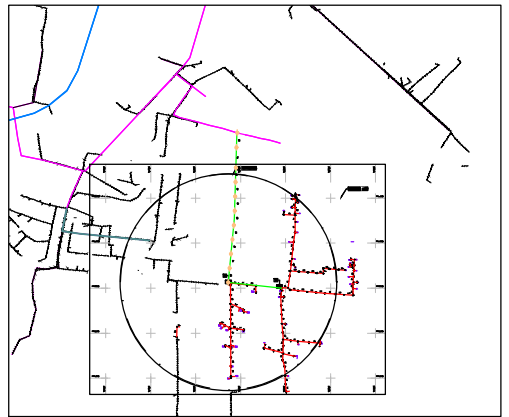
DRAWING TITLE
 COUNTY: NAKURU
 SCHEME: EXTENSION
 PROJECT SITE: KANYANYAINI

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

NIPPON KOEI CO., LTD



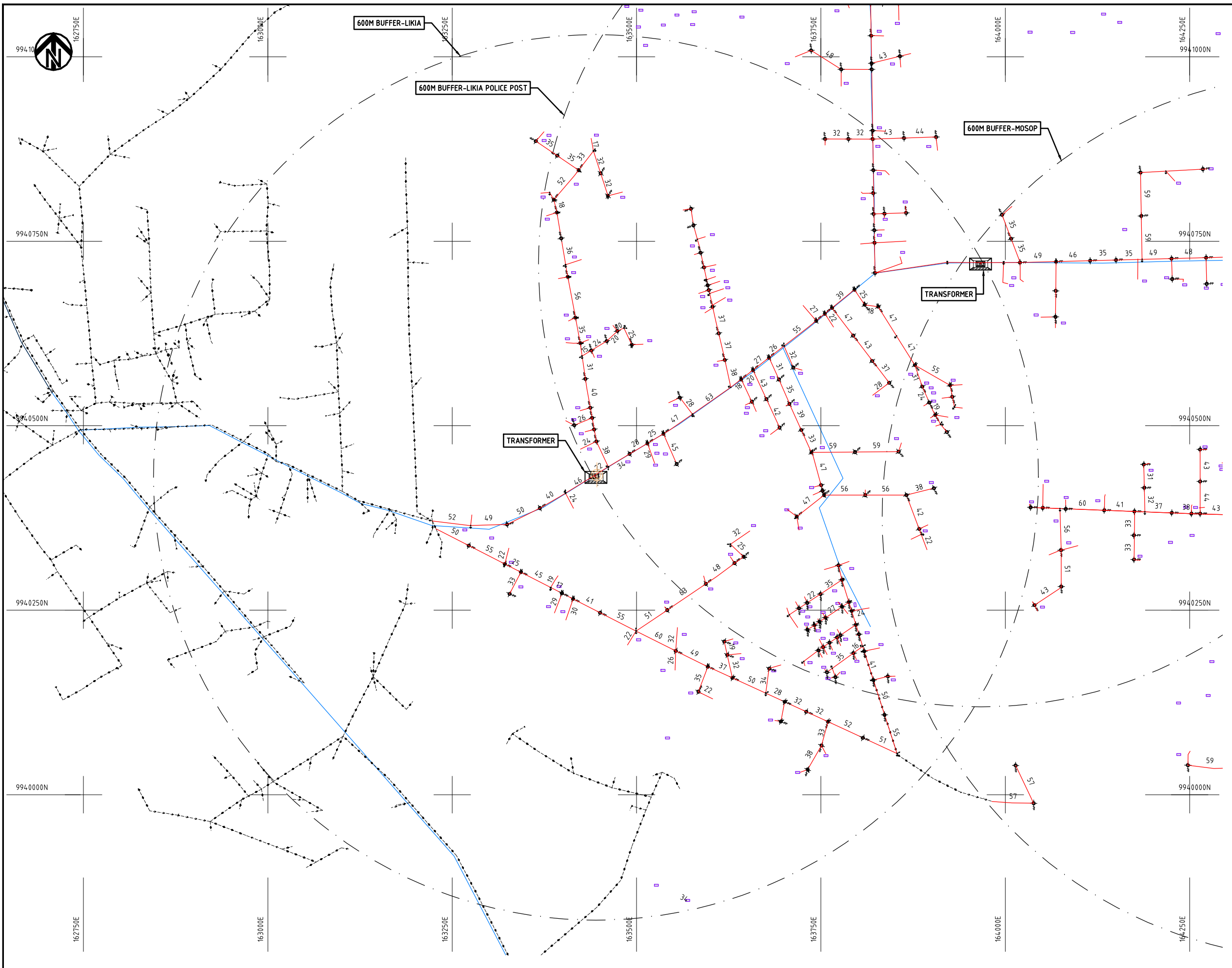
- NOTES:**
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.



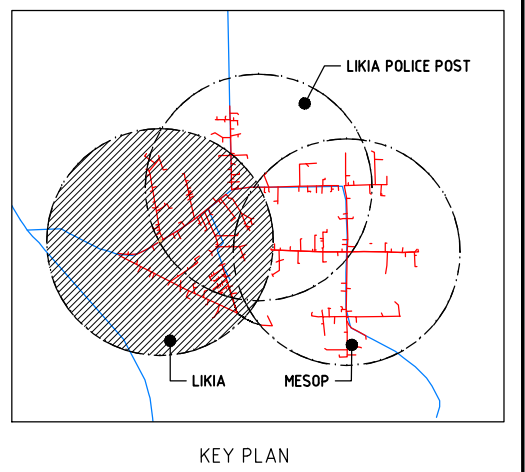
- HOUSEHOLDS/ BUILDINGS
- PROPOSED 11kV
- Proposed 33kV
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES 12M
- CONCRETE ELECTRIC POLES 11M
- LV-EARTH
- 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: KIKAPU | NKR-EX-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.



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





994.1250N

994.1250N

994.1000N

994.1000N

994.0750N

994.0750N

994.0500N

994.0500N

994.0250N

994.0250N

163250E

163500E

163750E

164000E

164250E

164500E

163250E

163500E

163750E

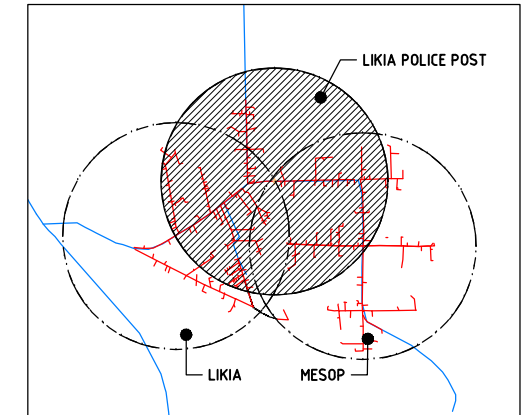
164000E

164250E

164500E

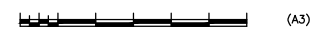
NOTES:

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
- CONCRETE ELECTRIC POLES 12M
- CONCRETE ELECTRIC POLES 11M
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING STAY



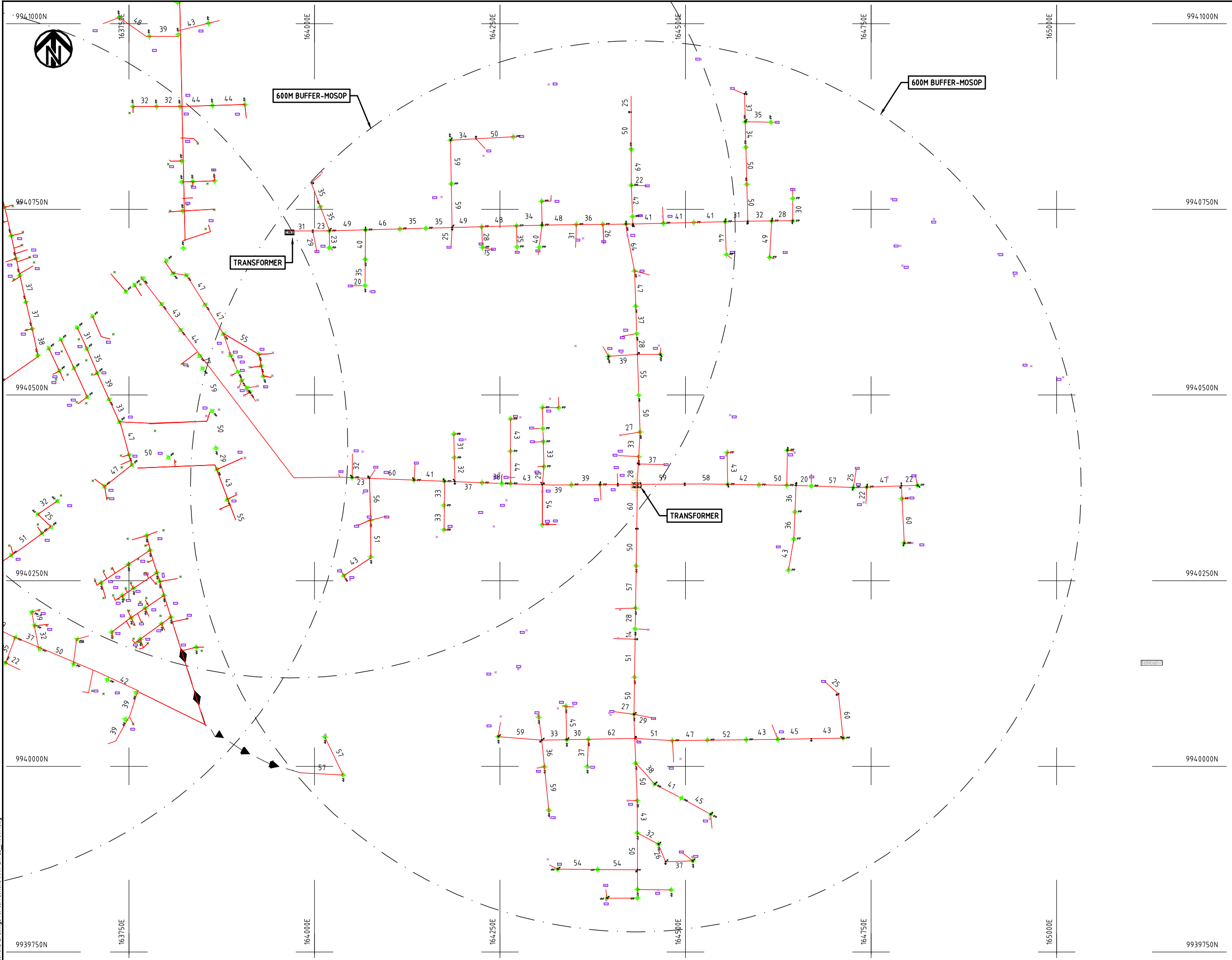
(A3)

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

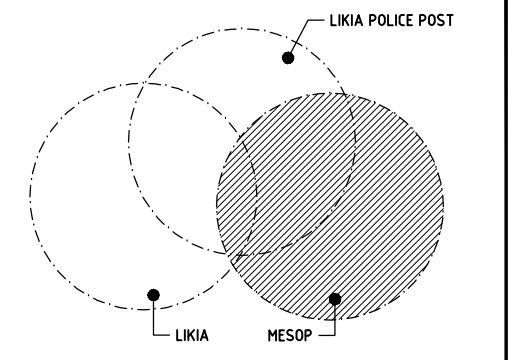
DRAWING TITLE
 COUNTY: NAKURU
 SCHEME: EXTENSION
 PROJECT SITE: LIKIA POLICE POST

| | | |
|-----------|-------------|---------------|
| DRAW. NO. | PREPARED BY | A.AKBAR |
| 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.



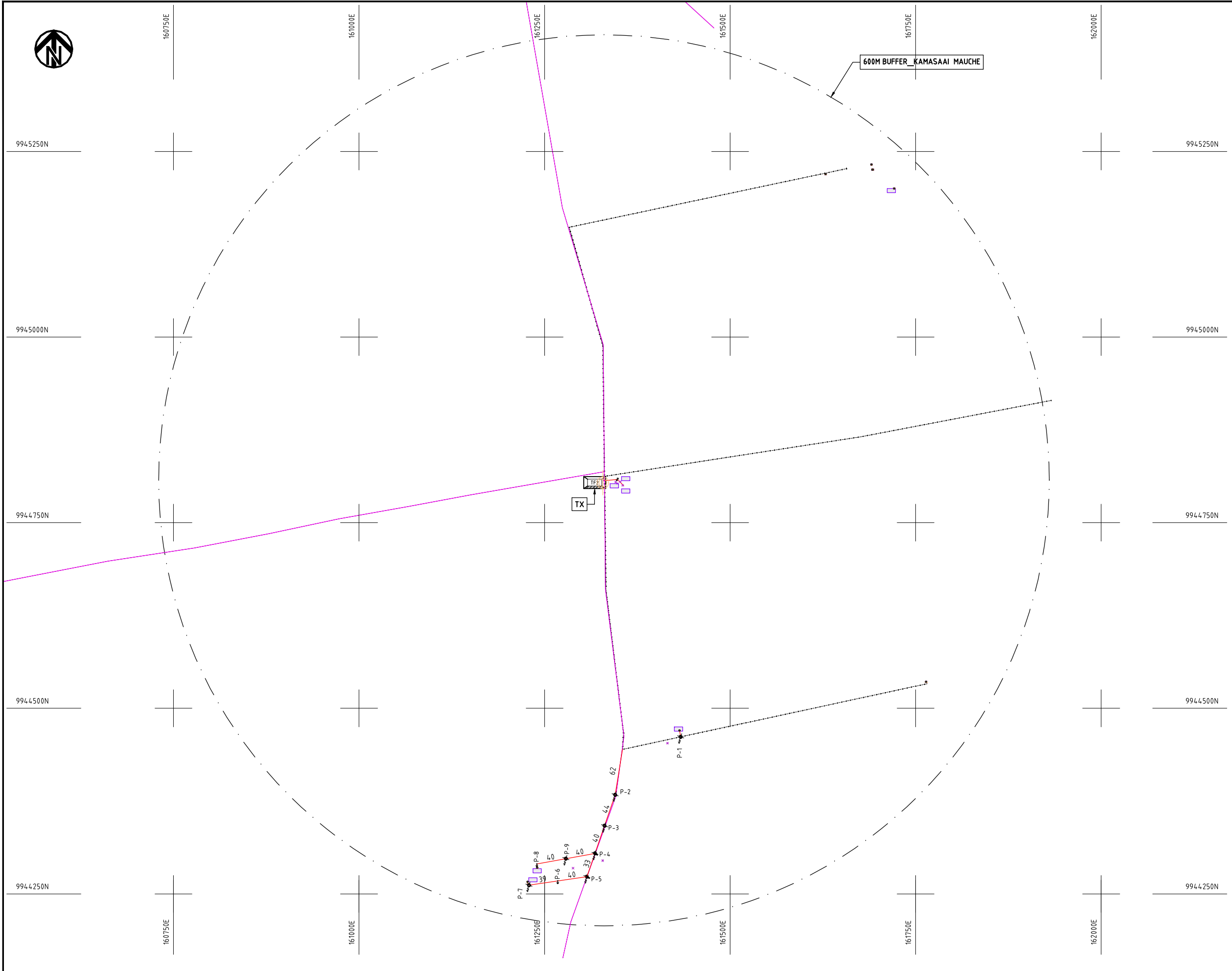
- LEGEND**
- HOUSEHOLDS/ BUILDINGS
 - PROPOSED 11kV
 - PROPOSED 33kV
 - PROPOSED DISTRIBUTION LINE
 - EXISTING 11kV LINE
 - EXISTING 33kV LINE
 - EXISTING DISTRIBUTION LINE
 - MAXIMISATION TRANSFORMER
 - EXTENSION TRANSFORMER
 - WOODEN ELECTRIC POLES
 - CONCRETE ELECTRIC POLES 12M
 - CONCRETE ELECTRIC 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 | 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



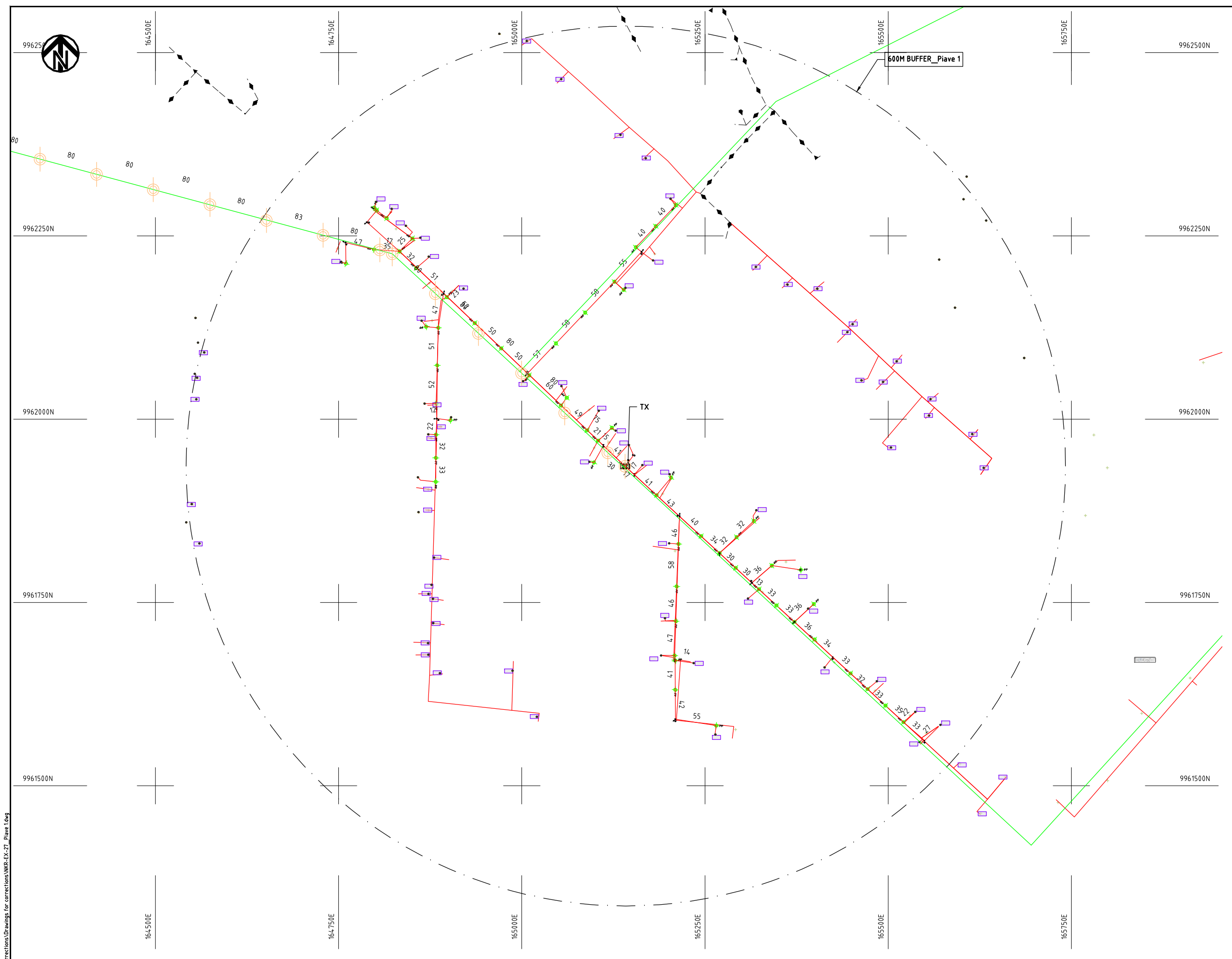
PROJECT:
**THE PREPARATORY SURVEY
 ON THE PROJECT FOR IMPROVEMENT
 OF POWER DISTRIBUTION SYSTEM
 IN THE REPUBLIC OF KENYA**

DRAWING TITLE
 COUNTY: NAKURU
 SCHEME: EXTENSION
 PROJECT SITE: KAMASAAI MAUCHE

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

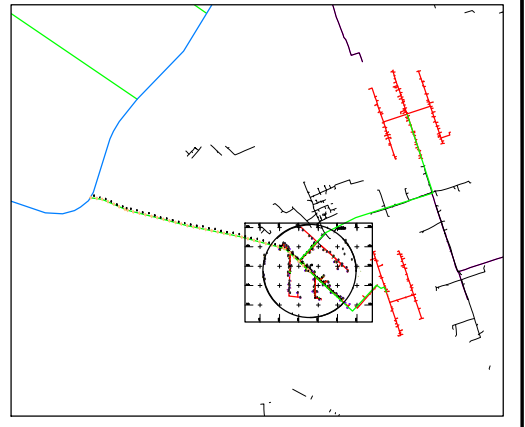
(A3)





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.



LEGEND

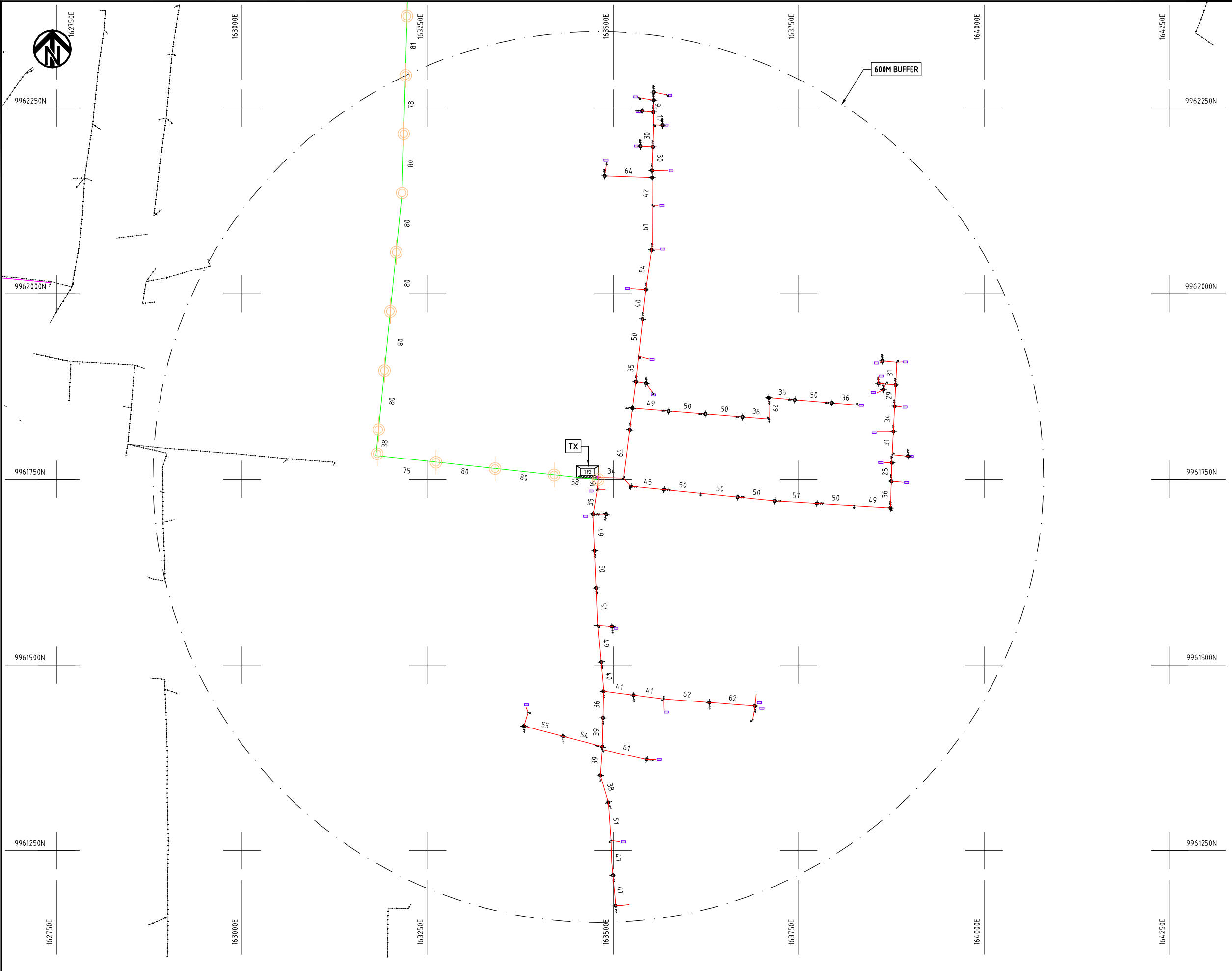
- HOUSEHOLDS/ BUILDINGS
- PROPOSED 11kV
- PROPOSED 33kV
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES 12M
- CONCRETE ELECTRIC POLES 11M
- LV-EARTH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



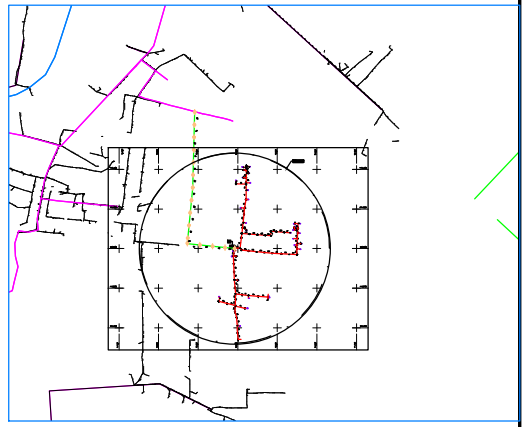
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| | | | |
|--|--|-----------------------------------|---|
| PROJECT: THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA | DRAWING TITLE COUNTY: NAKURU SCHEME: EXTENSION PROJECT SITE: PIAVE 1 | DRAW. NO. NKR-EX-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.



- 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-28 | CHECKED BY | S.MAETA |
| | SCHEME: EXTENSION | | | APPROVED BY | Y.TANAKA |
| | PROJECT SITE: SUNRISE | | | DATE | 10th SEP 2018 |
| | | NIPPON KOEI CO., LTD | | | |



164500E

9944000N

164750E

165000E

165250E

165500E

165750E

166000E

9943750N

9943750N

9943500N

9943500N

9943250N

9943250N

9943000N

9943000N

164500E

164750E

165000E

165250E

165500E

165750E

166000E

600M BUFFER_EMAIT MAUCHE

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



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.

NKR-EX-29

PREPARED BY

A.AKBAR

CHECKED BY

S.MAETA

APPROVED BY

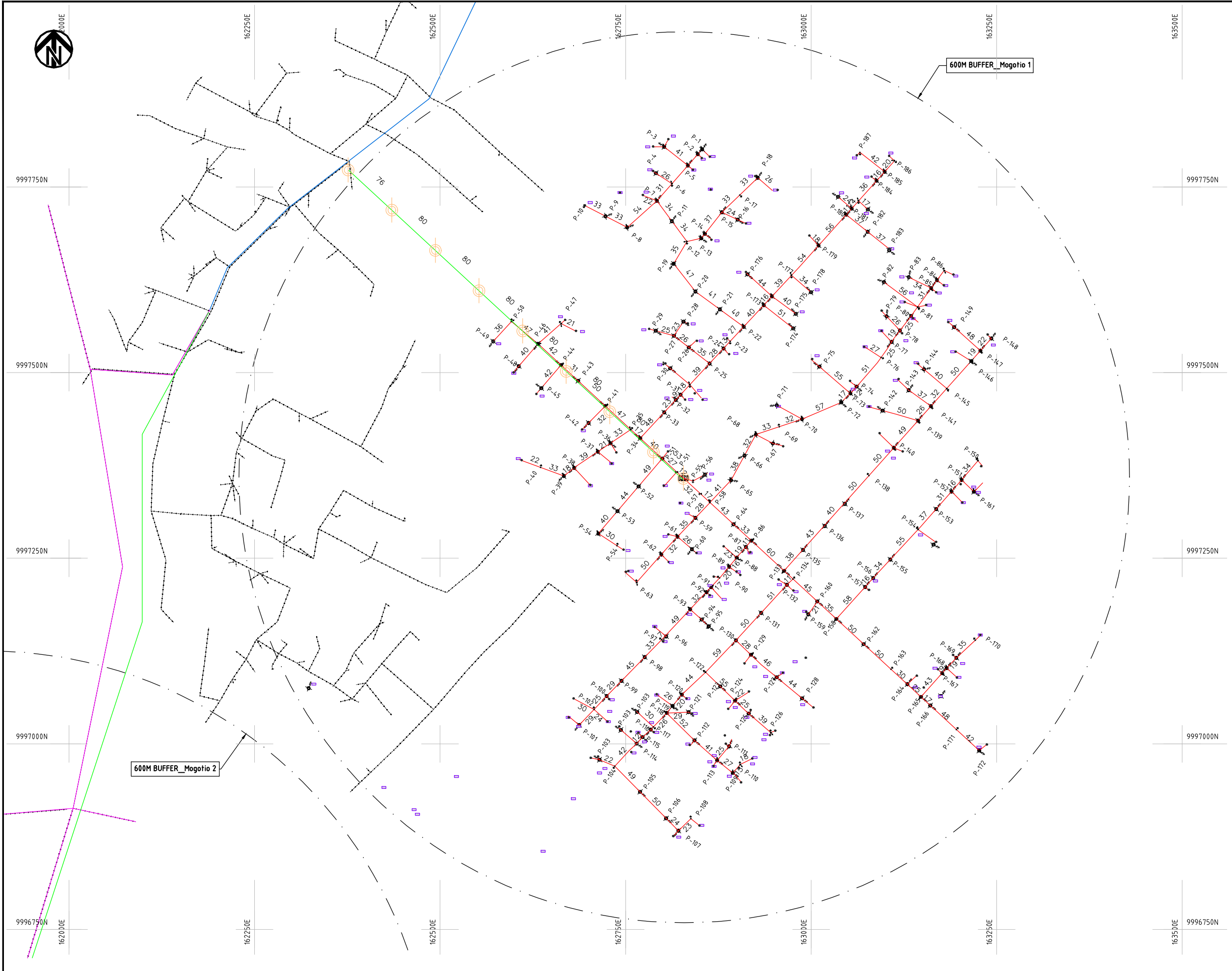
Y.TANAKA

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

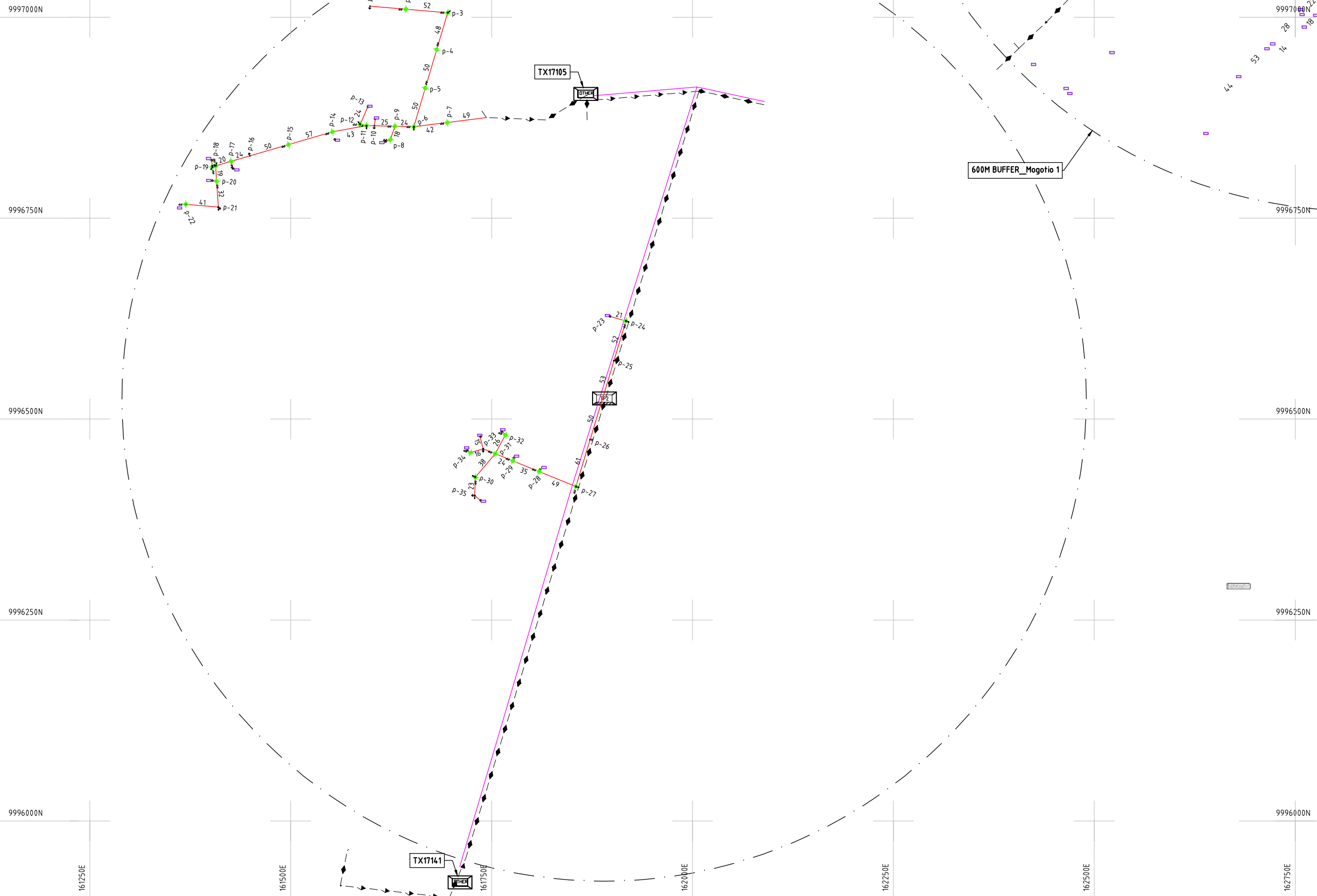


| | | | | | | |
|----------|--|-------------------------|---------------|-------------|---------------|---------|
| PROJECT: | THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA | | DRAWING TITLE | DRAW. NO. | PREPARED BY | A.AKBAR |
| | COUNTY: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





161250E
161500E
161750E
162000E
162250E
162500E
162750E



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)

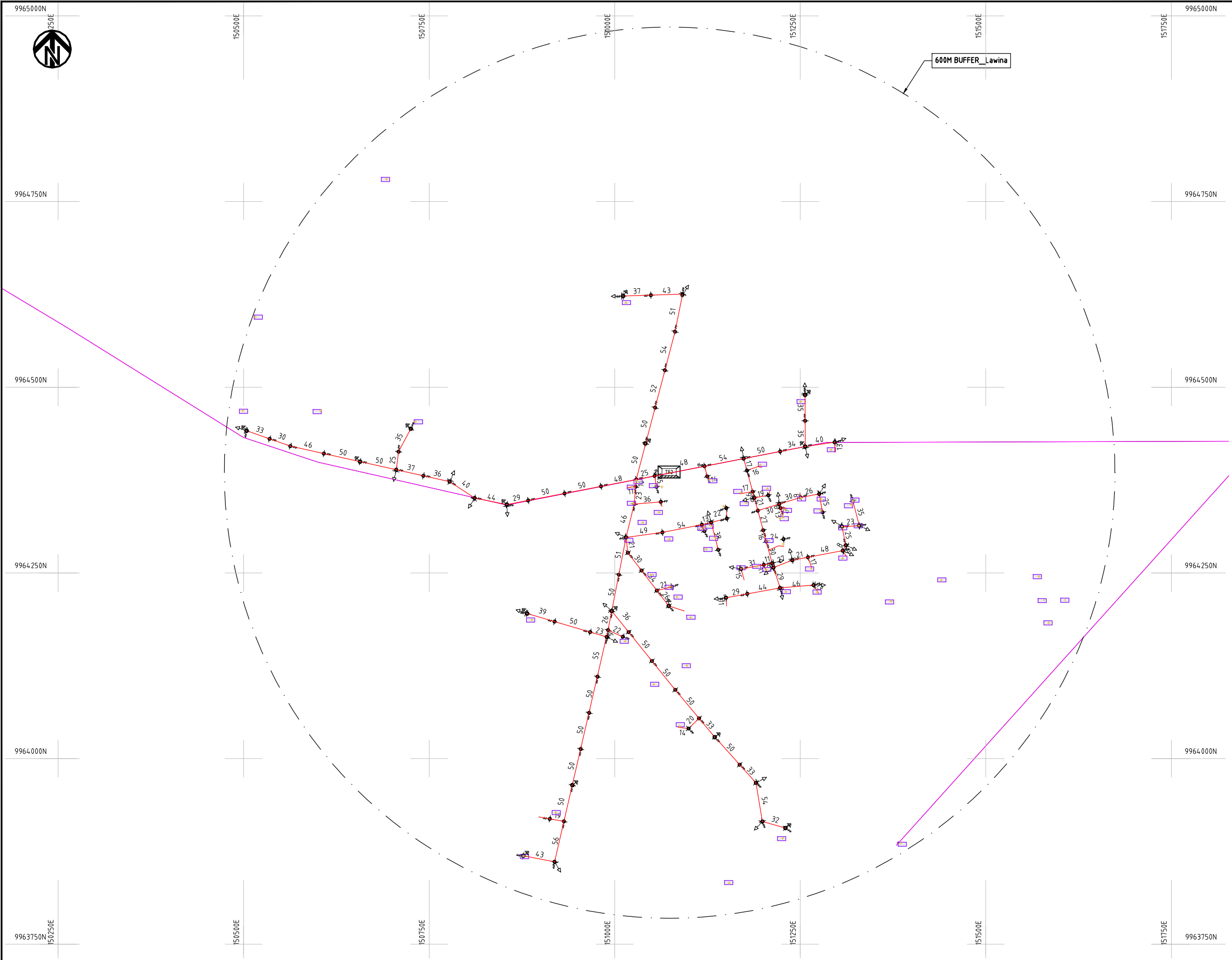
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PROJECT:
**THE PREPARATORY SURVEY
ON THE PROJECT FOR IMPROVEMENT
OF POWER DISTRIBUTION SYSTEM
IN THE REPUBLIC OF KENYA**

DRAWING TITLE
COUNTY: NAKURU
SCHEME: EXTENSION
PROJECT SITE: MOGOTIO 2

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





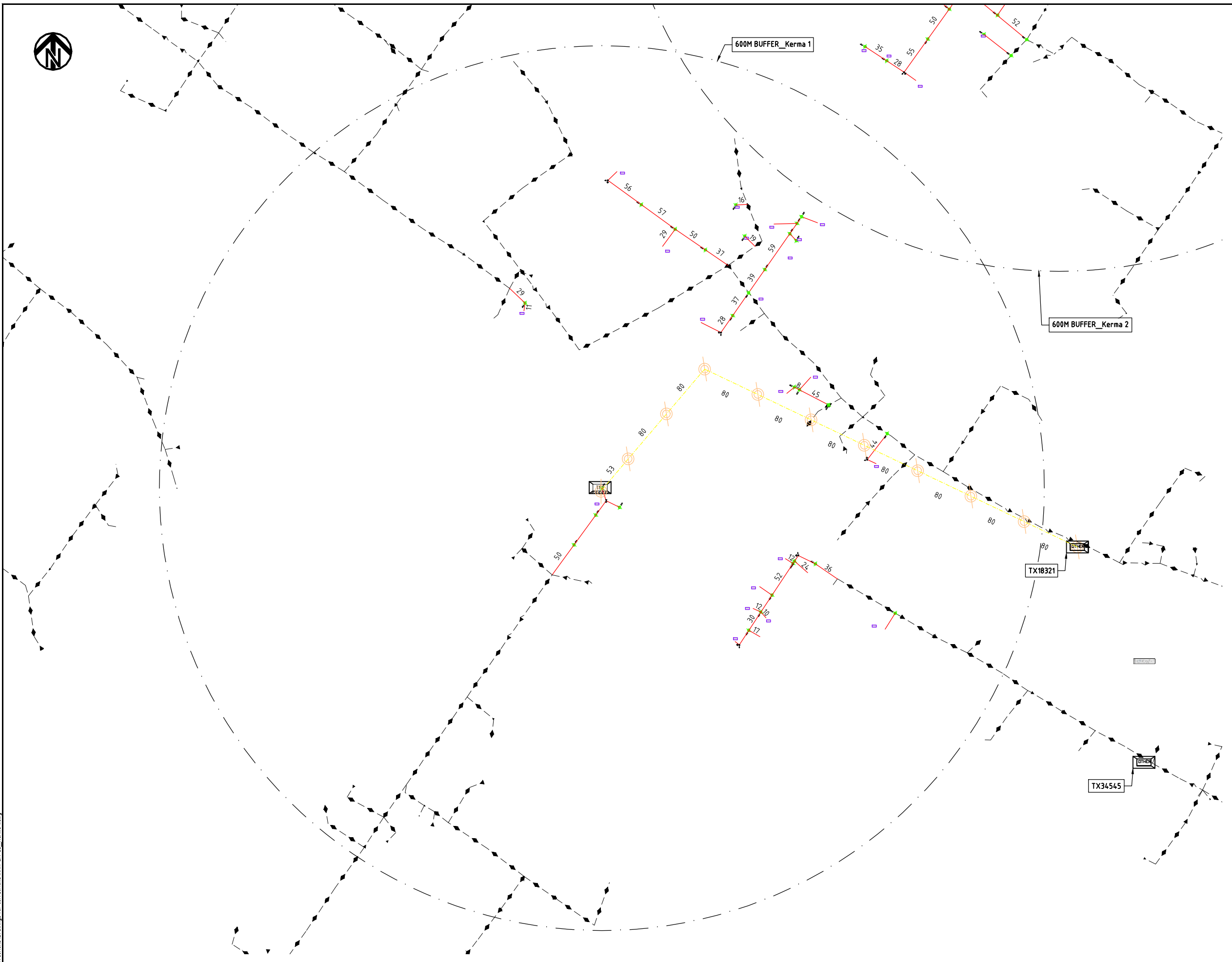
- NOTES:**
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.

| | |
|--|--|
| | 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: LAWINA | | NKR-EX-32 | 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)

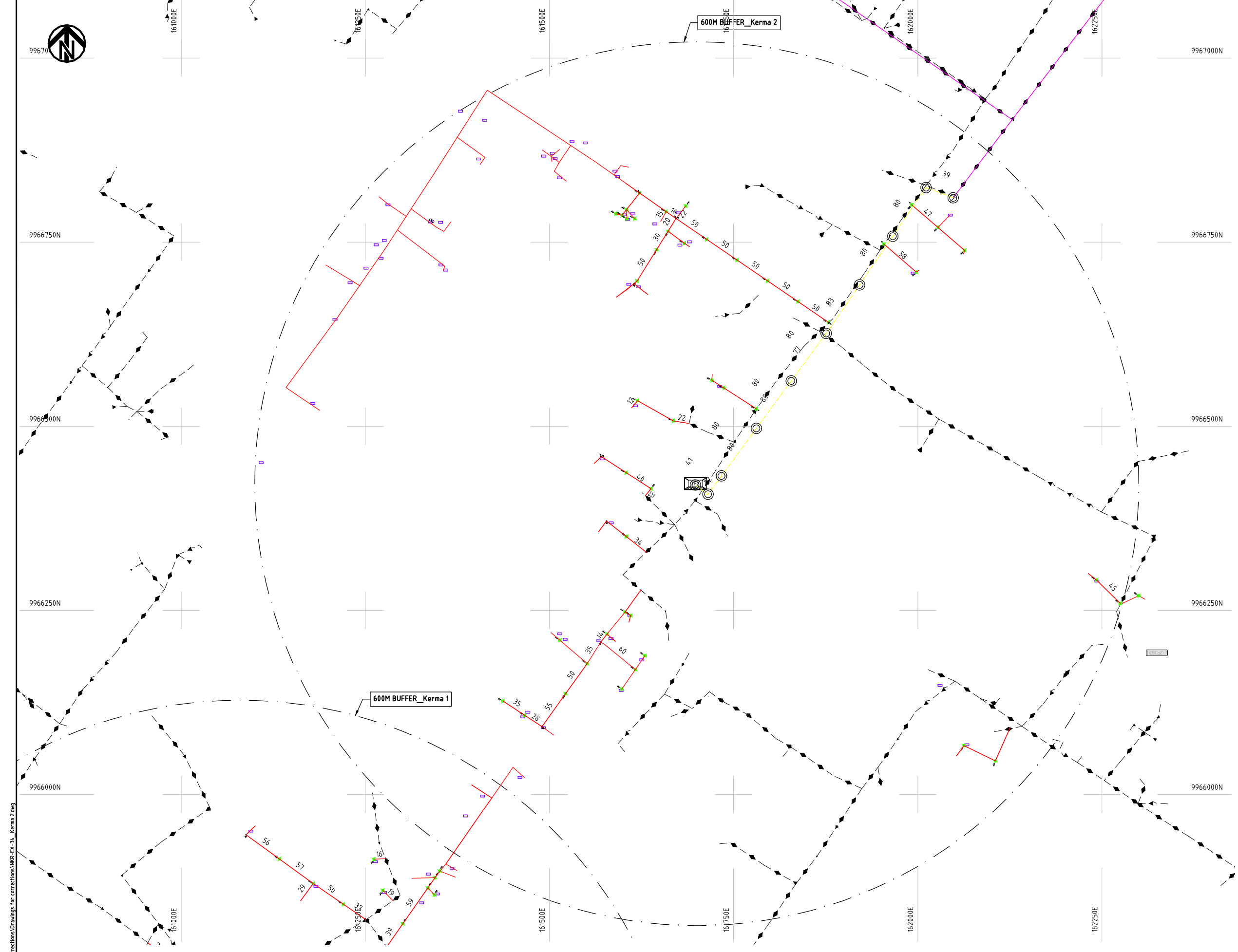
PROJECT:
**THE PREPARATORY SURVEY
 ON THE PROJECT FOR IMPROVEMENT
 OF POWER DISTRIBUTION SYSTEM
 IN THE REPUBLIC OF KENYA**

DRAWING TITLE
 COUNTY: NAKURU
 SCHEME: EXTENSION
 PROJECT SITE: KERMA 1

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

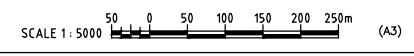


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- NOTES:**
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 4. PME TO BE AFTER EVERY 200m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

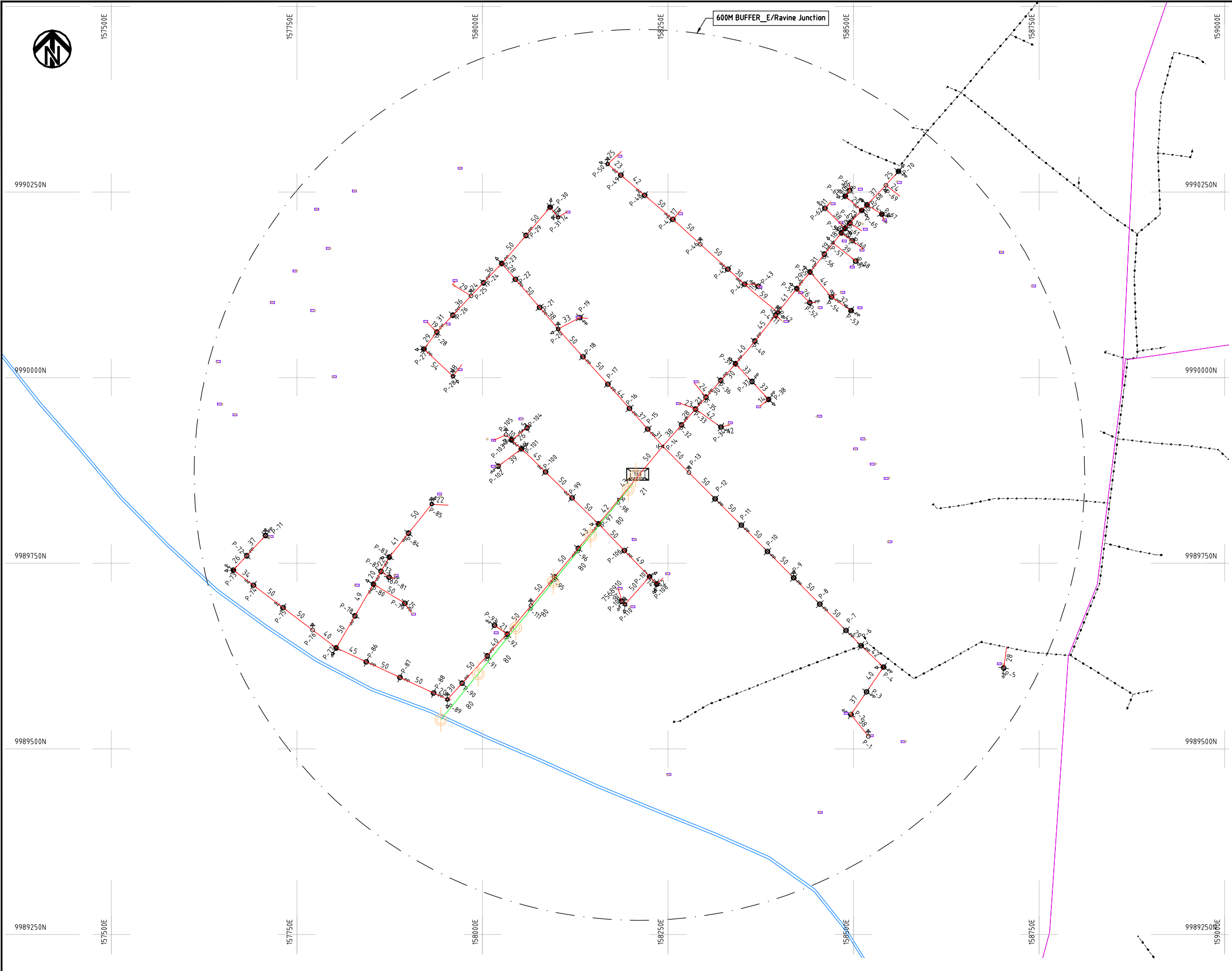
- LEGEND**
- HOUSEHOLDS/ BUILDINGS
 - PROPOSED 11kV
 - PROPOSED 33kV
 - PROPOSED DISTRIBUTION LINE
 - EXISTING 11kV LINE
 - EXISTING 33kV LINE
 - EXISTING DISTRIBUTION LINE
 - MAXIMISATION TRANSFORMER
 - EXTENSION TRANSFORMER
 - WOODEN ELECTRIC POLES
 - CONCRETE ELECTRIC POLES 12M
 - CONCRETE ELECTRIC 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 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



| | | | | | |
|--|----------------|-------------|-----------|---------------|---------|
| 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-35 | CHECKED BY | S.MAETA |
| SCHEME: EXTENSION | | APPROVED BY | | Y.TANAKA | |
| PROJECT SITE: E/RAVINE JUNCTION | | | DATE | 10th SEP 2018 | |



9992000N



150500E

150750E

151000E

151250E

151500E

151750E

9992000N

9991750N

9991750N

9991500N

9991500N

9991250N

9991250N

9991000N

9991000N

150500E

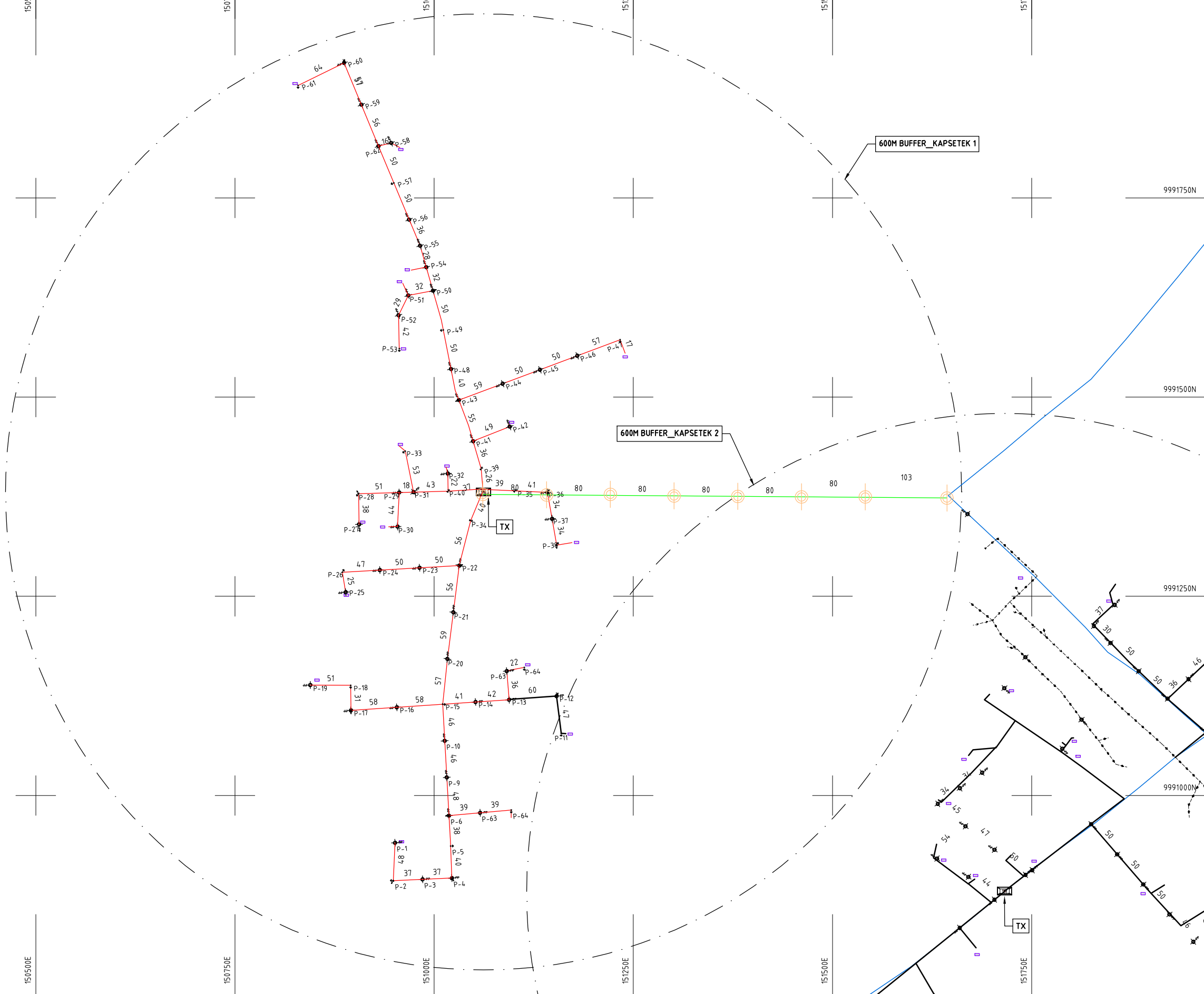
150750E

151000E

151250E

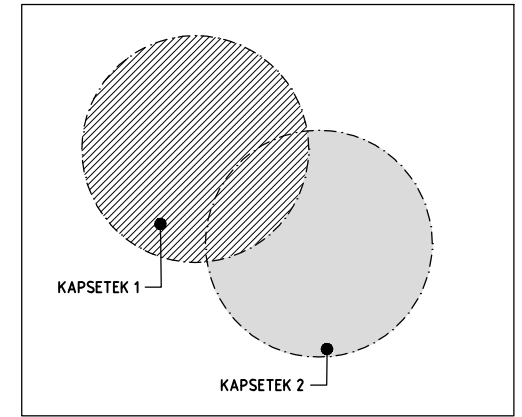
151500E

151750E



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
- CONCRETE ELECTRIC POLES 12M
- CONCRETE ELECTRIC POLES 11M
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING STAY

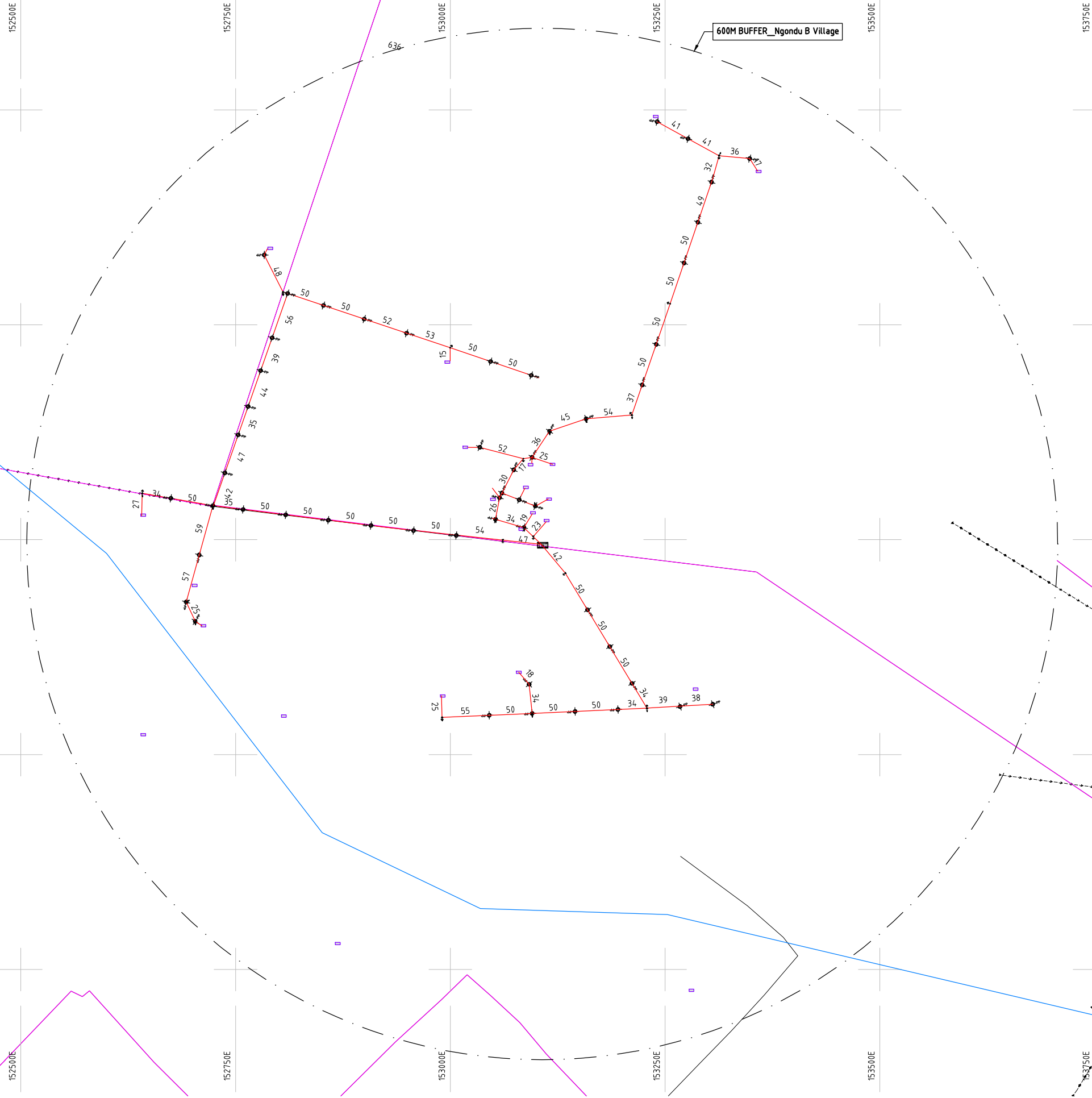
Scale bar and (A3)

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: KAPSETEK 2

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





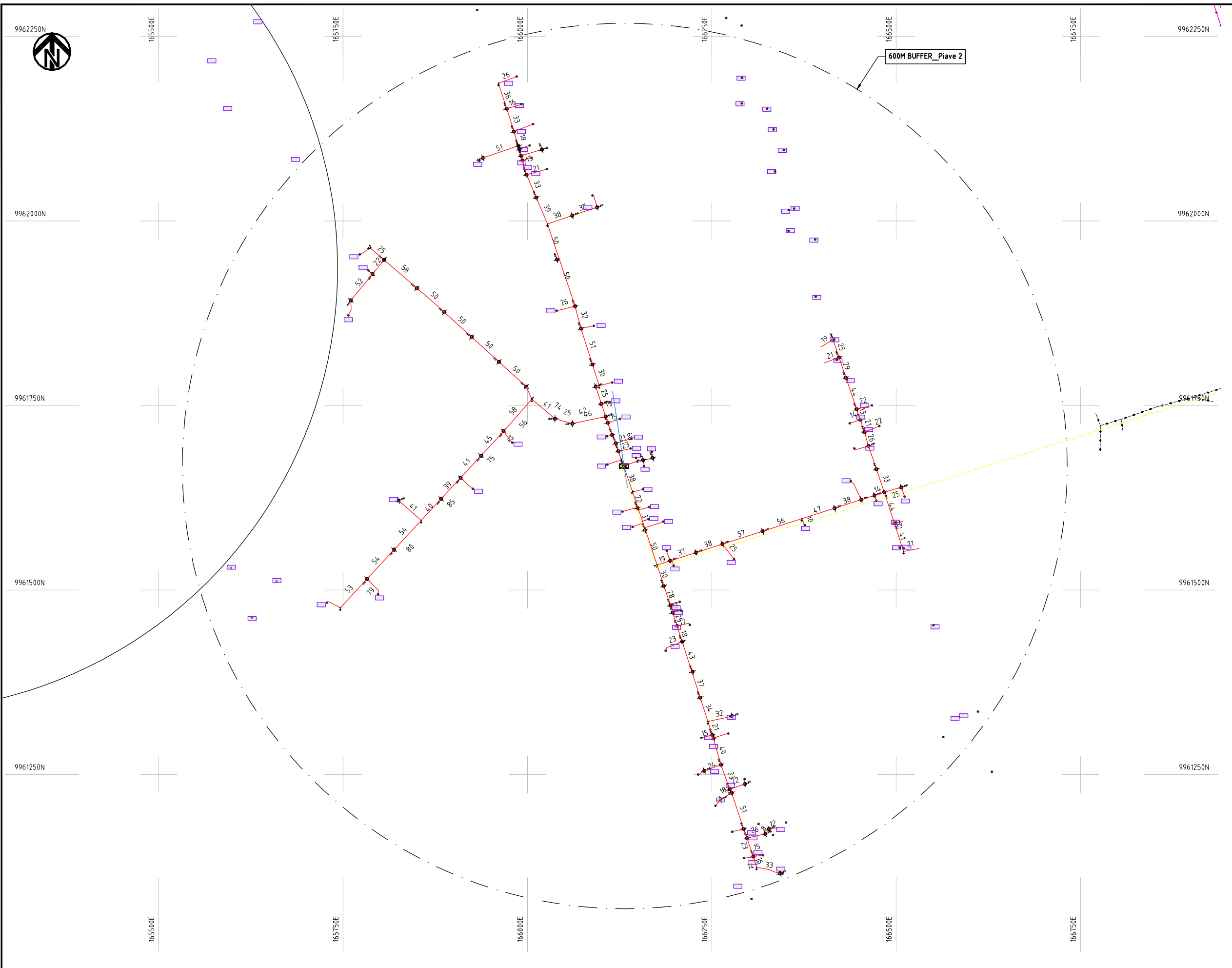
NOTES:

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.

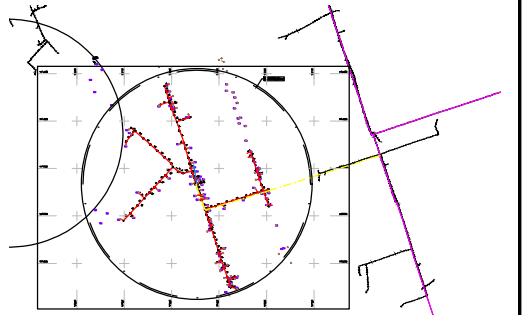
| | |
|--|--|
| | HOUSEHOLDS/ BUILDINGS |
| | PROPOSED 11kV |
| | Proposed 33kV |
| | PROPOSED DISTRIBUTION LINE |
| | EXISTING 11kV LINE |
| | EXISTING 33kV LINE |
| | EXISTING DISTRIBUTION LINE |
| | MAXIMISATION TRANSFORMER |
| | EXTENSION TRANSFORMER |
| | WOODEN ELECTRIC POLES |
| | CP CONCRETE 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 COUNTY: NAKURU SCHEME: EXTENSION PROJECT SITE: NGONDU B VILLAGE | DRAW. NO. NKR-EX-37 | 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

Scale bar and drawing reference (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-38 | CHECKED BY | S.MAETA |
| SCHEME: EXTENSION | | APPROVED BY | | Y.TANAKA | |
| PROJECT SITE: PIAVE 2 | | | DATE | 10th SEP 2018 | |





9964500N

165750E

166000E

166250E

166500E

166750E

167000E

9964250N

9964000N

9963750N

9963500N

165750E

166000E

166250E

166500E

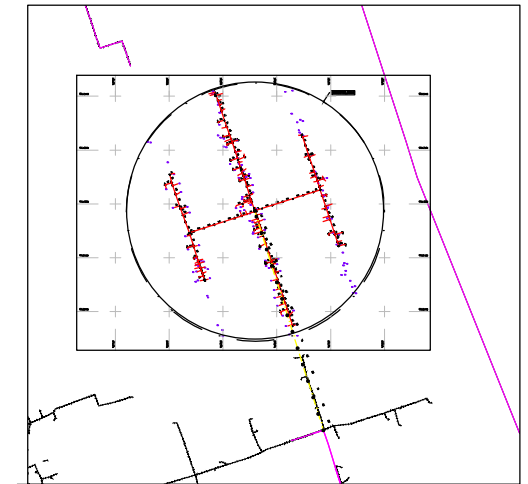
166750E

167000E

600M BUFFER_Piave 3

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

COUNTY: NAKURU
SCHEME: EXTENSION
PROJECT SITE: PIAVE 3

DRAW. NO.

NKR-EX-39

PREPARED BY

A.AKBAR

CHECKED BY

S.MAETA

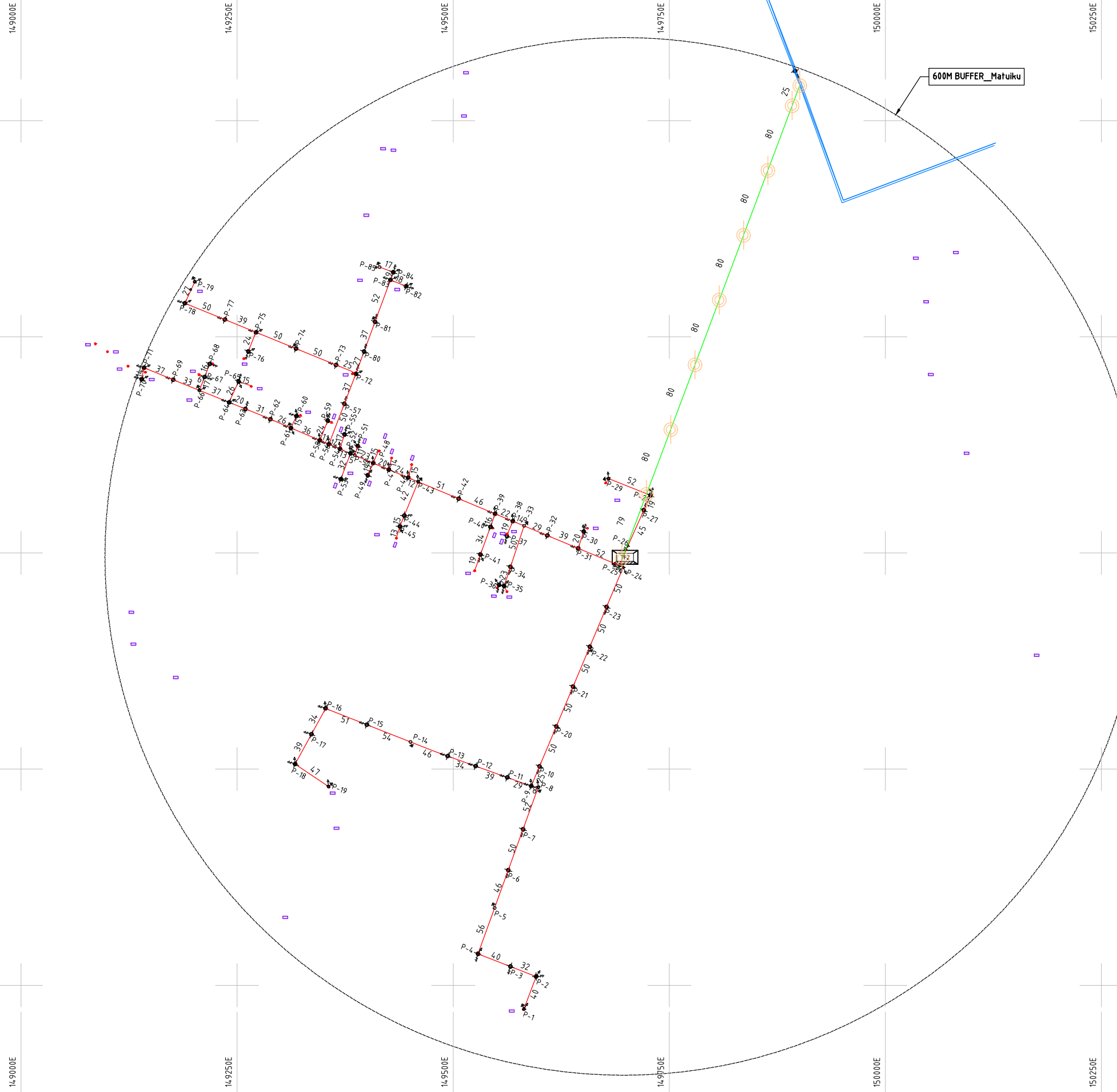
APPROVED BY

Y.TANAKA

DATE

10th SEP 2018

NIPPON KOEI CO., LTD



NOTES:

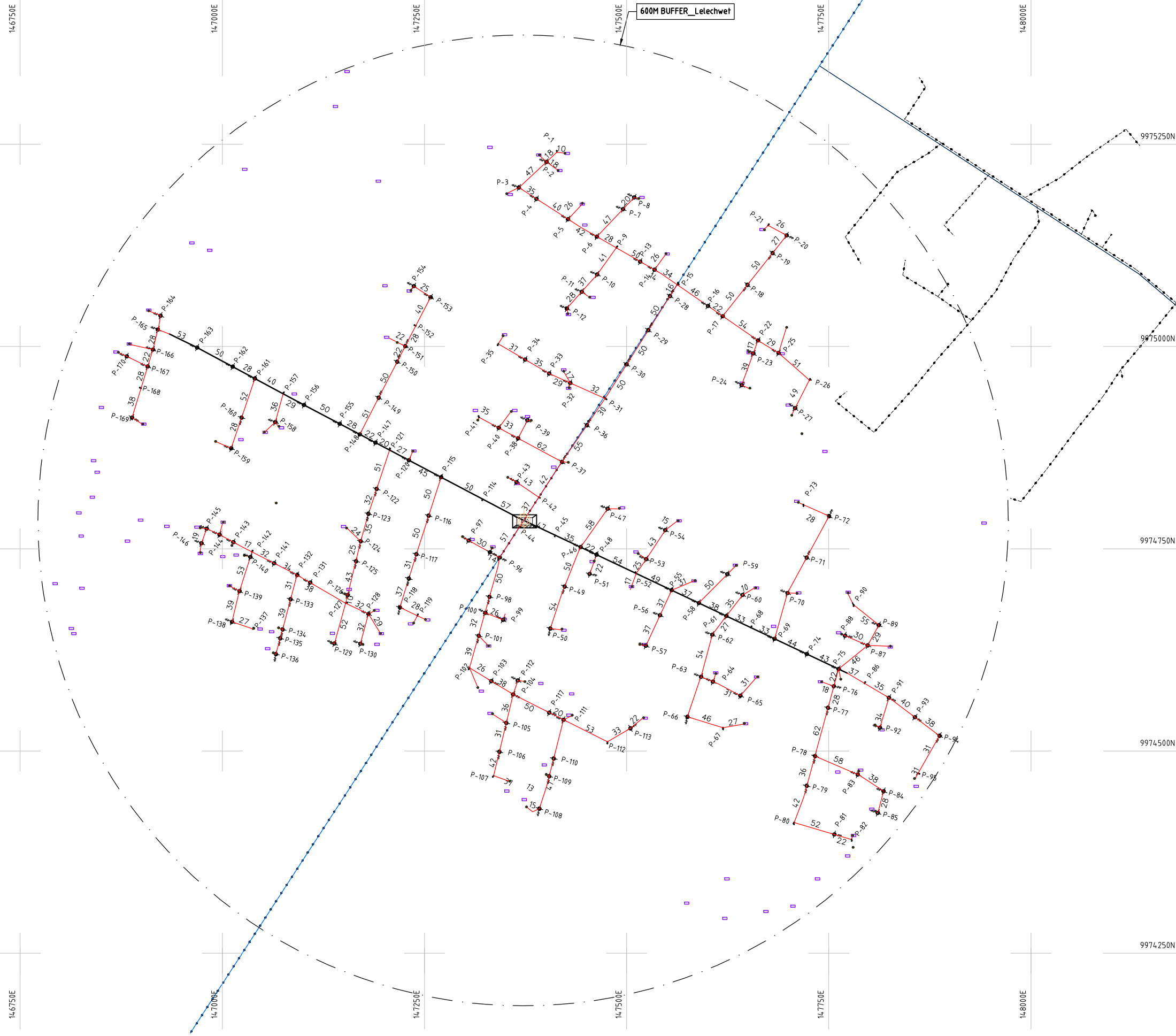
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.

- 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



| | | | | | |
|--|--|--|-----------|-------------|---------------|
| 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: MATUIKU | | NKR-EX-41 | 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-42 | CHECKED BY | S.MAETA |
| | SCHEME: EXTENSION | | | APPROVED BY | Y.TANAKA |
| | PROJECT SITE: LELECHWET | | | DATE | 10th SEP 2018 |





154250E

154500E

154750E

155000E

155250E

155500E

9977500N

9977500N

9977250N

9977250N

9977000N

9977000N

9976750N

9976750N

9976500N

9976500N

154250E

154500E

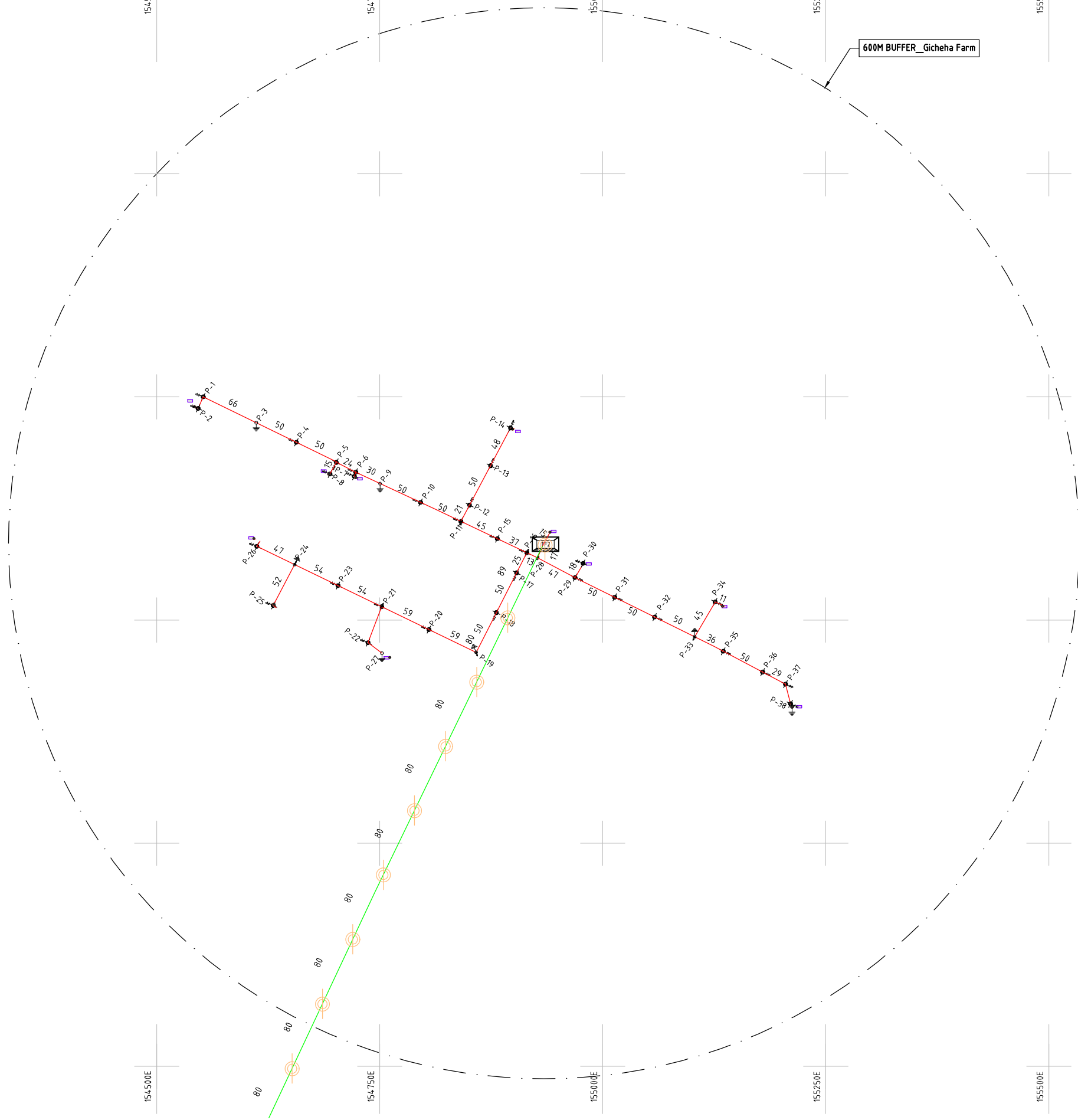
154750E

155000E

155250E

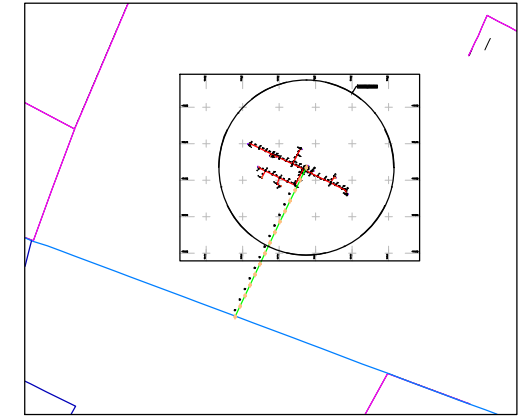
155500E

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
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES 12M
- CONCRETE ELECTRIC POLES 11M
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING STAY

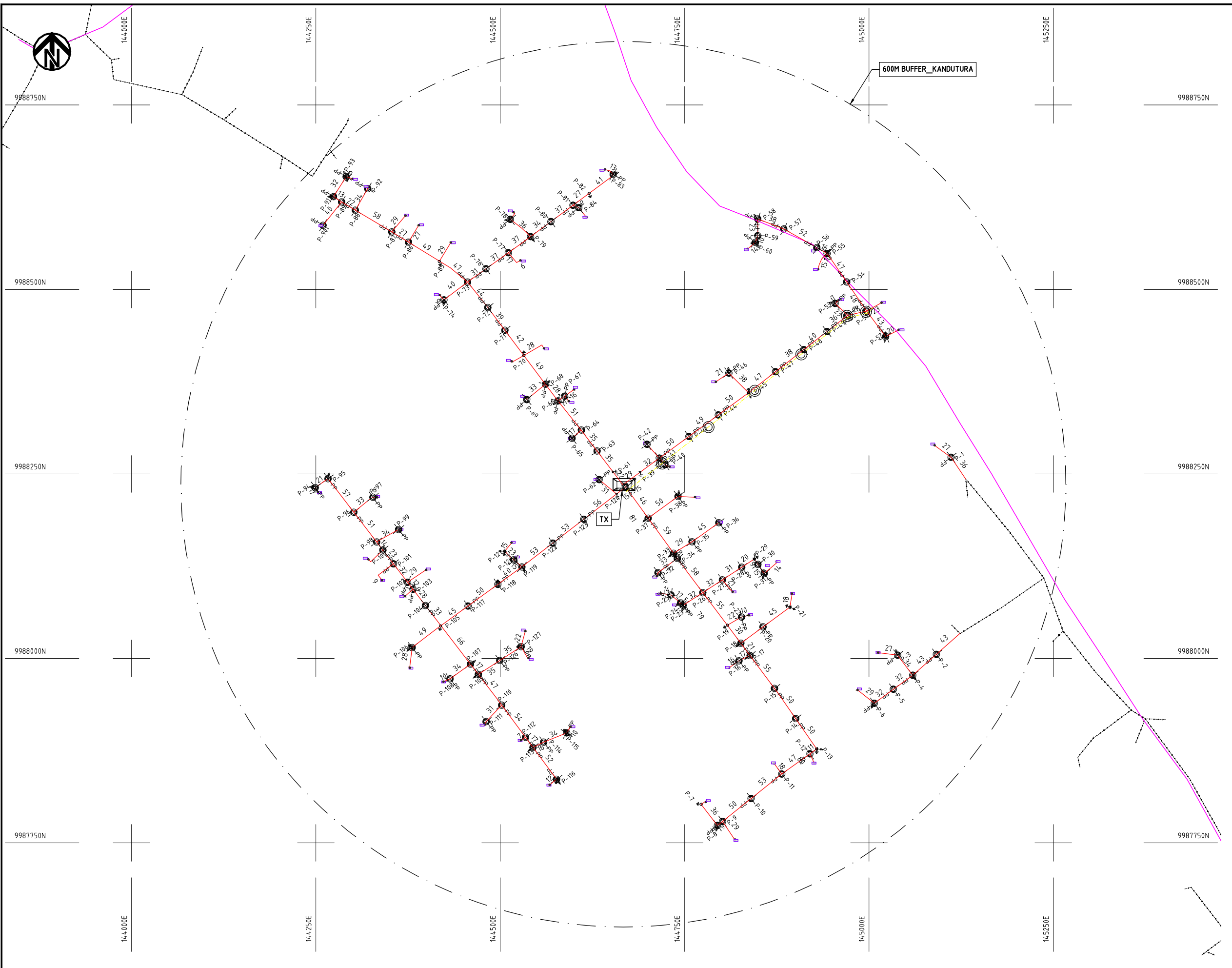


PROJECT:
**THE PREPARATORY SURVEY
 ON THE PROJECT FOR IMPROVEMENT
 OF POWER DISTRIBUTION SYSTEM
 IN THE REPUBLIC OF KENYA**

DRAWING TITLE
 COUNTY: NAKURU
 SCHEME: EXTENSION
 PROJECT SITE: GICHEHA FARM

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





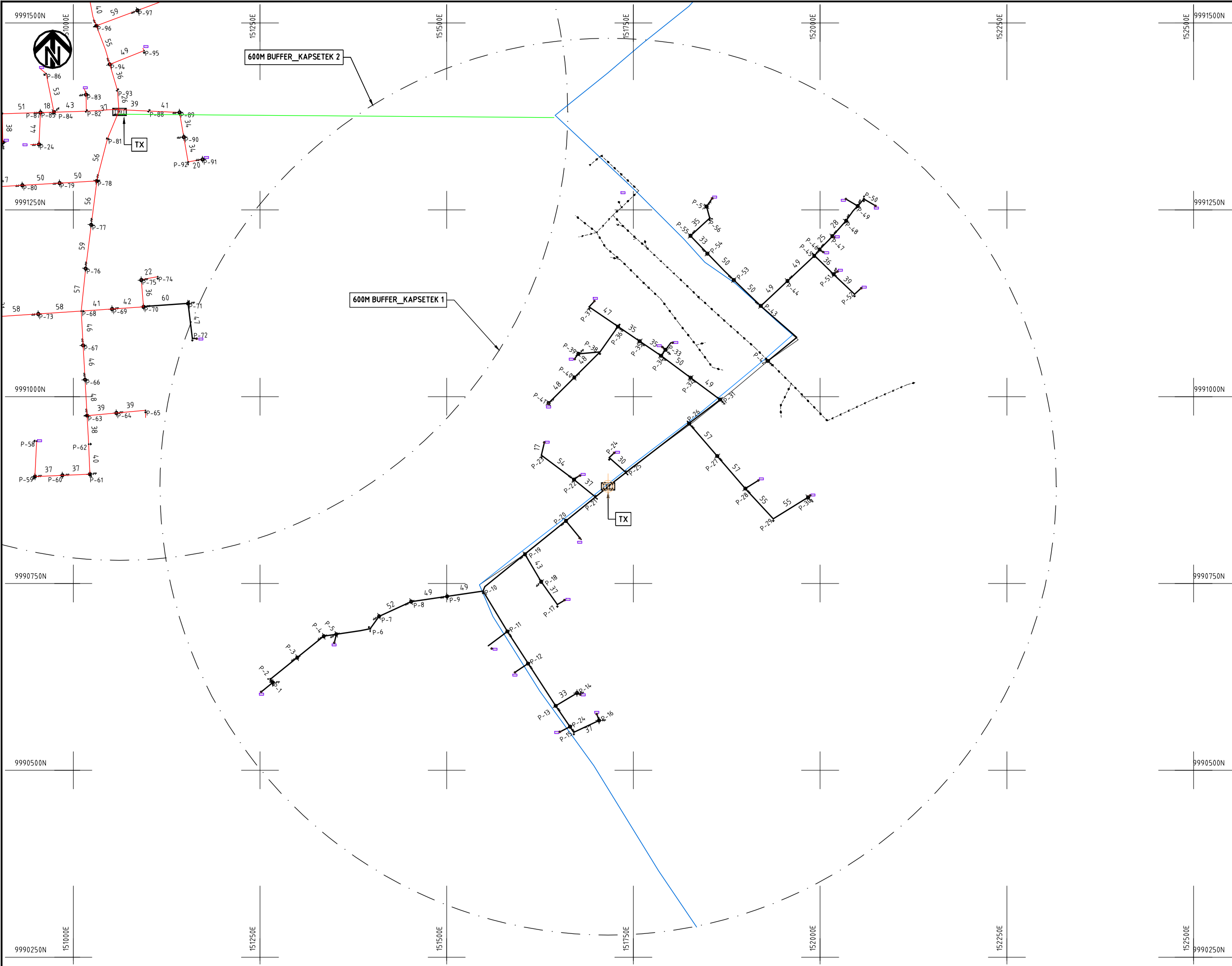
- NOTES:**
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 2. CONCRETE / WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.

- 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

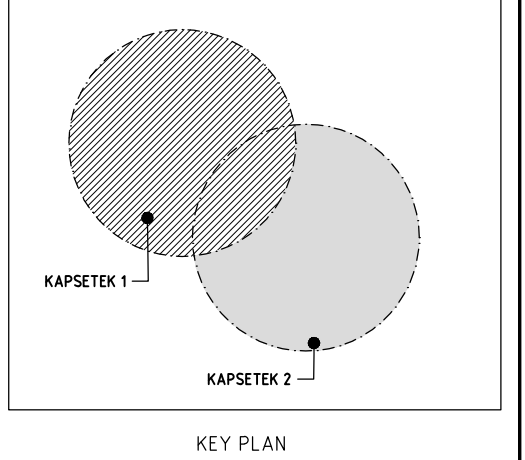


| | | | | | | |
|----------|--|----------------|-------------------|-----------|-------------|---------------|
| PROJECT: | THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA | DRAWING TITLE | | DRAW. NO. | PREPARED BY | A.AKBAR |
| | | COUNTY: NAKURU | Scheme: EXTENSION | NKR-EX-44 | CHECKED BY | S.MAETA |
| | PROJECT SITE: KANDUTURA | | | | 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.

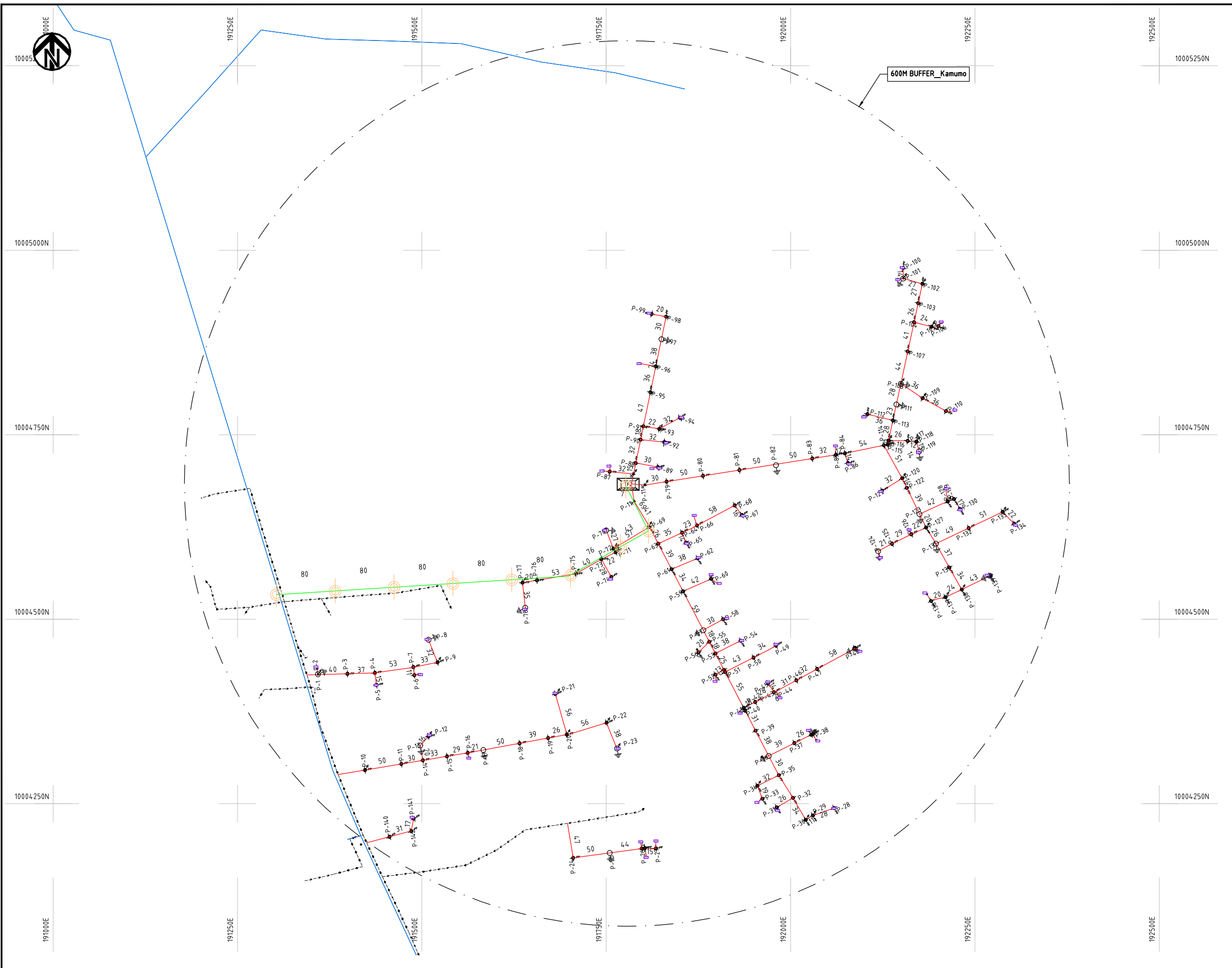


- HOUSEHOLDS/ BUILDINGS
- PROPOSED 11kV
- Proposed 33kV
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- WOODEN ELECTRIC POLES
- CP CONCRETE ELECTRIC POLES 12M
- CP CONCRETE ELECTRIC POLES 11M
- LV-EARTH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

- 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 |
| | THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA | | COUNTY: NAKURU SCHEME: EXTENSION PROJECT SITE: KAMUMO | CHECKED BY APPROVED BY DATE | S.MAETA Y.TANAKA 10th SEP 2018 |





192000E

192250E

192500E

192750E

193000E

193250E

192000E

192250E

192500E

192750E

193000E

193250E

10006500N

10006250N

10006000N

10005750N

10005500N

10006500N

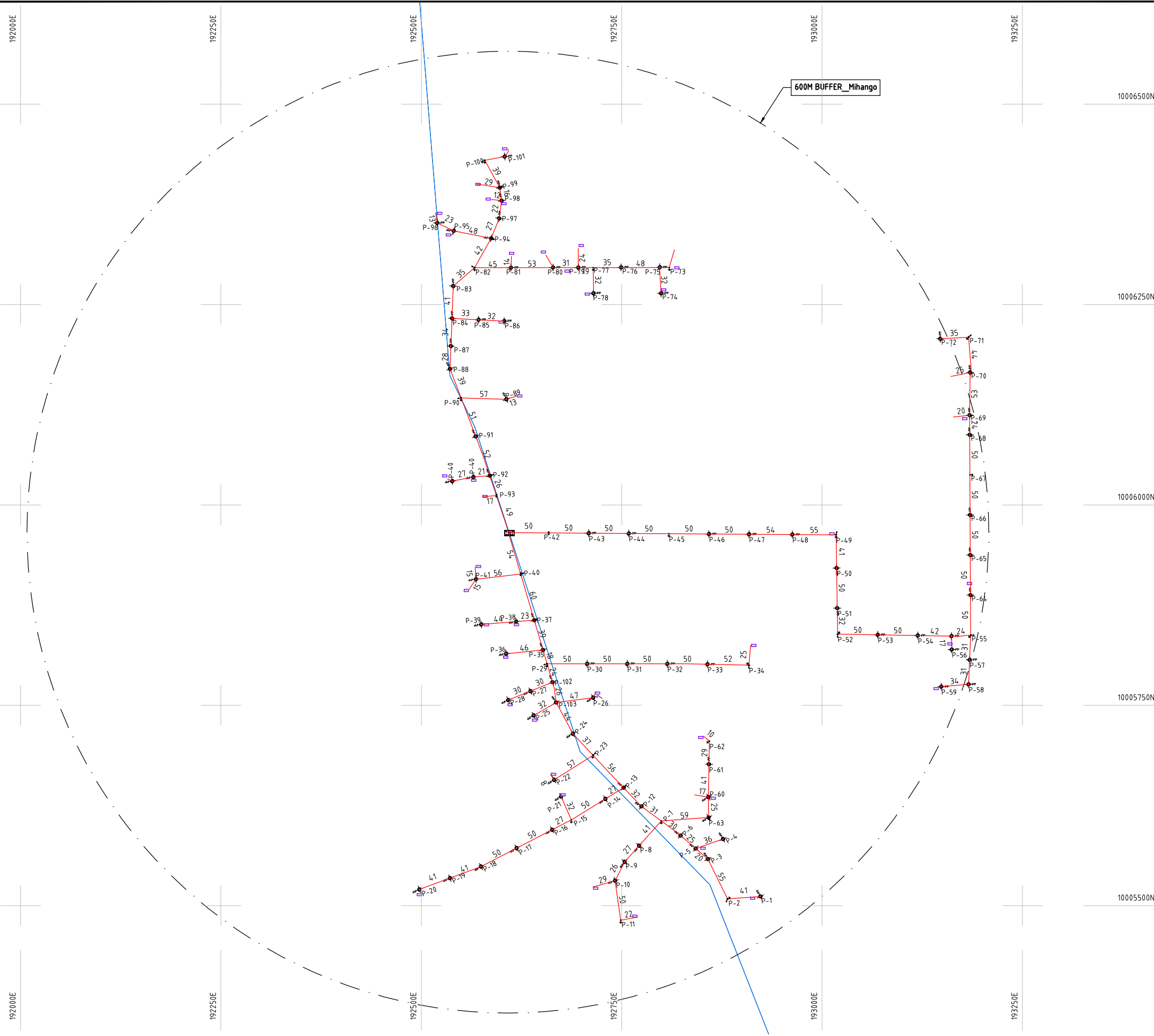
10006250N

10006000N

10005750N

10005500N

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 |



| | | | | | |
|--|-----------------------|--|----------------------|-------------|---------------|
| 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-47 | CHECKED BY | S.MAETA |
| | SCHEME: EXTENSION | | | APPROVED BY | Y.TANAKA |
| | PROJECT SITE: MIHANGO | | | DATE | 10th SEP 2018 |
| | | | NIPPON KOEI CO., LTD | | |



191500E

191750E

192000E

192250E

192500E

192750E

10009500N

10009500N

10009250N

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10009000N

10009000N

10008750N

10008750N

10008500N

10008500N

191500E

191750E

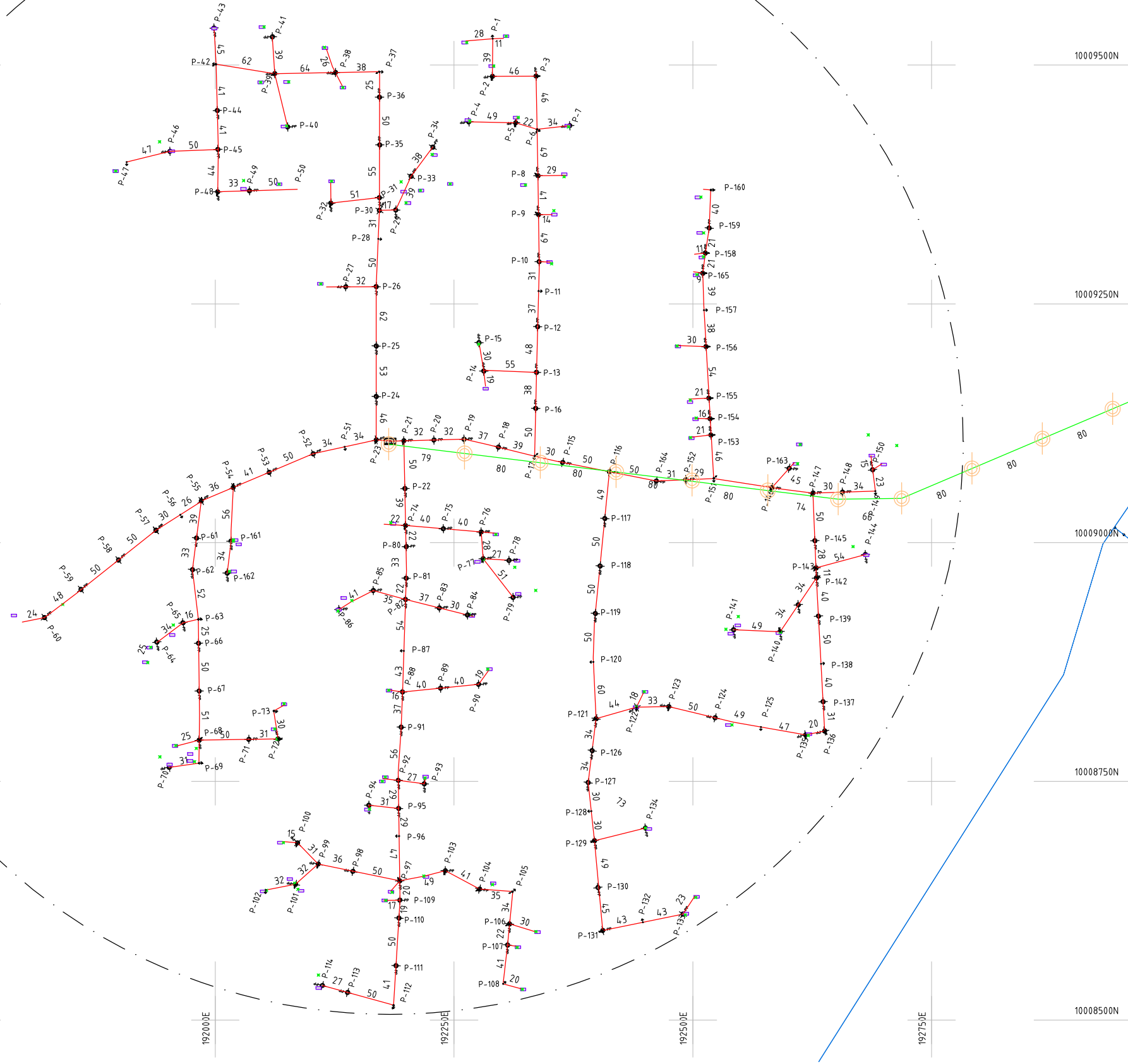
192000E

192250E

192500E

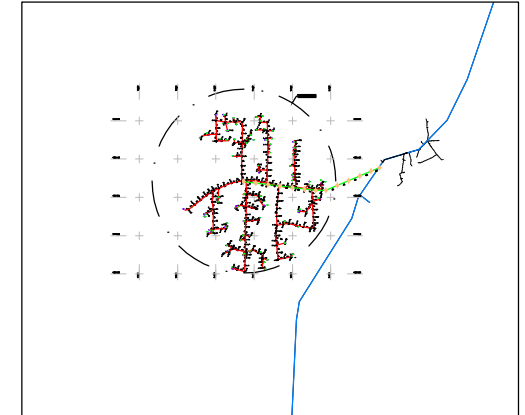
192750E

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

190250E

190500E

190750E

191000E

191250E

191500E

10009000N

10008750N

10008500N

10008250N

10008000N

10009000N

10008750N

10008500N

10008250N

10008000N

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
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES 12M
- CONCRETE ELECTRIC POLES 11M
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING STAY

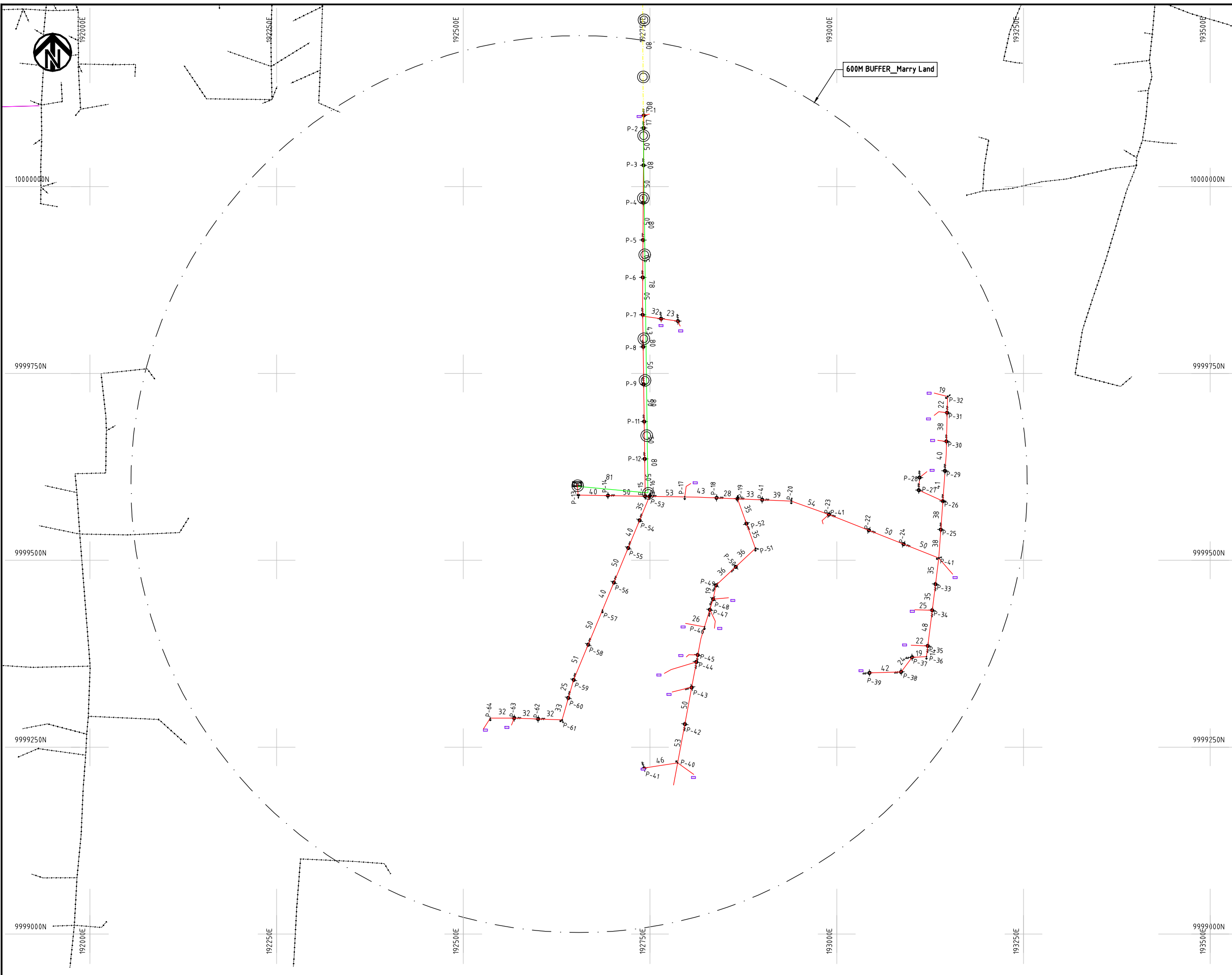


PROJECT:
**THE PREPARATORY SURVEY
 ON THE PROJECT FOR IMPROVEMENT
 OF POWER DISTRIBUTION SYSTEM
 IN THE REPUBLIC OF KENYA**

DRAWING TITLE
 COUNTY: NAKURU
 SCHEME: EXTENSION
 PROJECT SITE: KAPTARAKWA

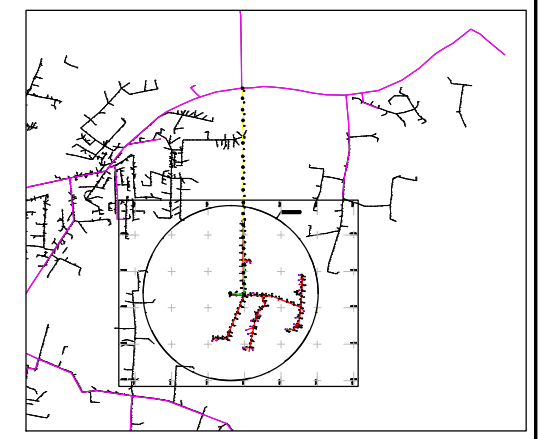
| | | |
|-----------|-------------|---------------|
| DRAW. NO. | PREPARED BY | A.AKBAR |
| NKR-EX-49 | CHECKED BY | S.MAETA |
| | APPROVED BY | Y.TANAKA |
| | DATE | 10th SEP 2018 |





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.



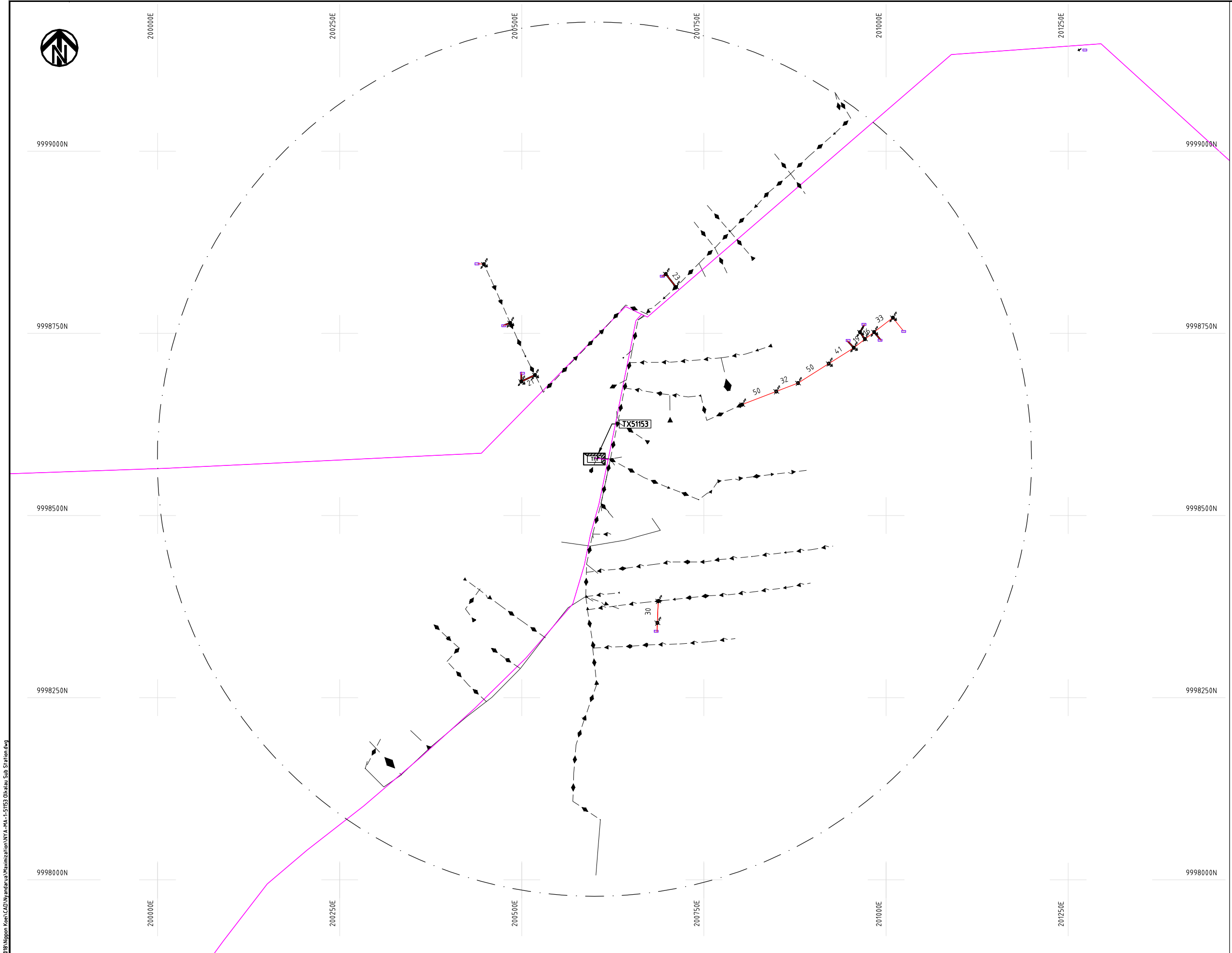
- HOUSEHOLDS/ BUILDINGS
- PROPOSED 11kV
- Proposed 33kV
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- WOODEN ELECTRIC POLES
- CP CONCRETE ELECTRIC POLES 12M
- CP CONCRETE ELECTRIC POLES 11M
- LV-EARTH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

| | | | | | |
|----------|---|--|-----------|-------------|---------------|
| PROJECT: | <p>THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA</p> | DRAWING TITLE | DRAW. NO. | PREPARED BY | A.AKBAR |
| | | <p>COUNTY: NAKURU SCHEME: EXTENSION PROJECT SITE: MARRY LAND</p> | 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.

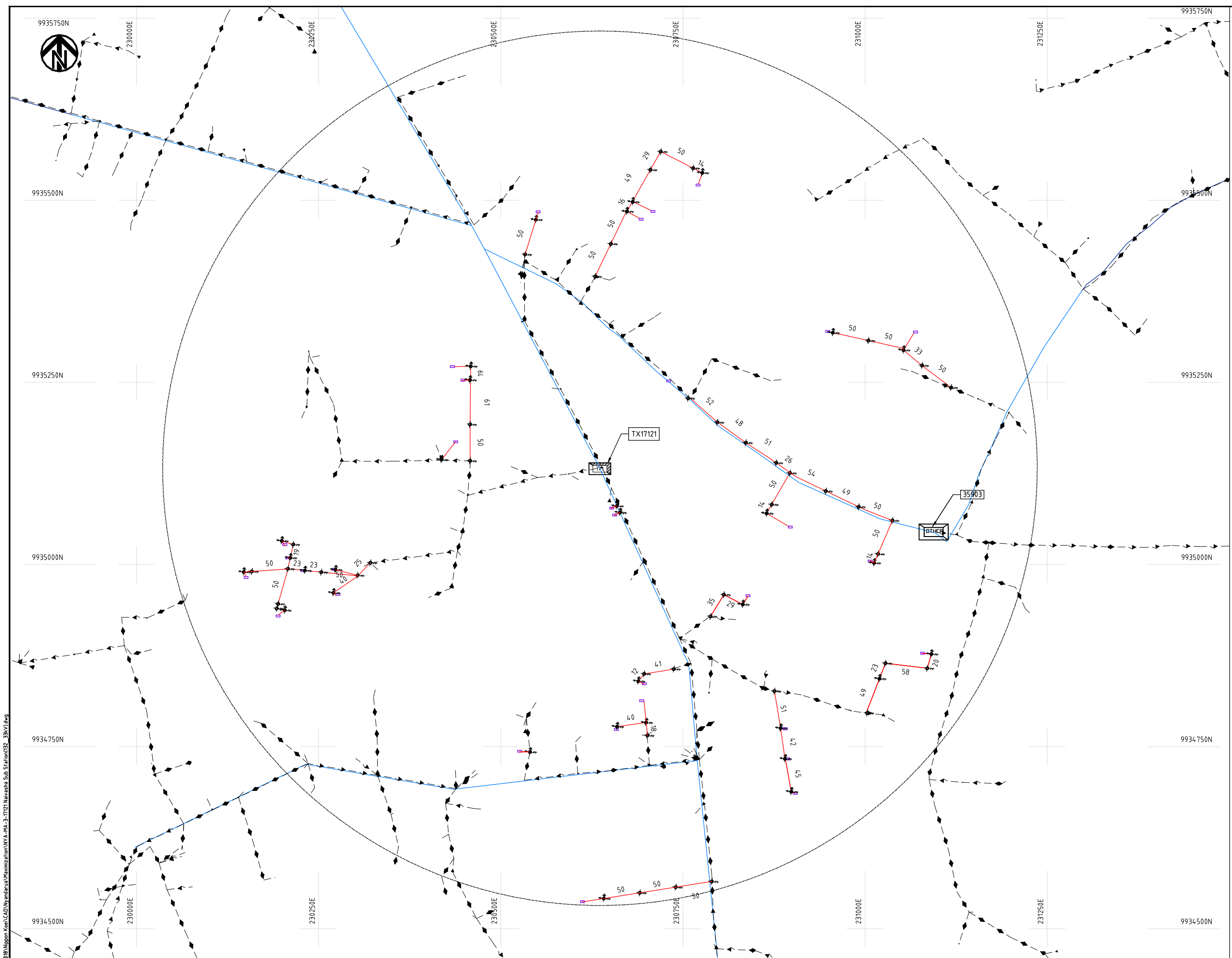
LEGEND

- 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

Cad File No. D:\Frank-Proj\2018\Nippon Koei\CAD\Nyandarua\Maximization\NYA-MA-1-51153-01kalau Sub Station.dwg

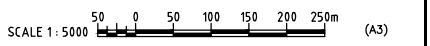
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|----------|--|---|-----------|-------------|---------------|
| PROJECT: | THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA | DRAWING TITLE | DRAW. NO. | PREPARED BY | A.AKBAR |
| | | COUNTY: NYANDARUA SCHEME: MAXIMIZATION PROJECT SITE: 51153-01kalau Substation | NYA-MA-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.
 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-3-17121 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: NYANDARUA | | NYA-MA-3 | CHECKED BY | S.MAETA |
| | SCHEME: MAXIMIZATION | | | APPROVED BY | Y.TANAKA |
| | PROJECT SITE: 17121-Naivasha Sub Station(132/33kV) | | | DATE | 10th SEP 2018 |





234.000E

234.250E

234.500E

234.750E

235.000E

235.250E

9931000N

9931000N

9930750N

9930750N

9930500N

9930500N

9930250N

9930250N

9930000N

9930000N

234.000E

234.250E

234.500E

234.750E

235.000E

235.250E

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: 34.399-Gathara Market

DRAW. NO.

NYA-MA-7

PREPARED BY

A.AKBAR

CHECKED BY

S.MAETA

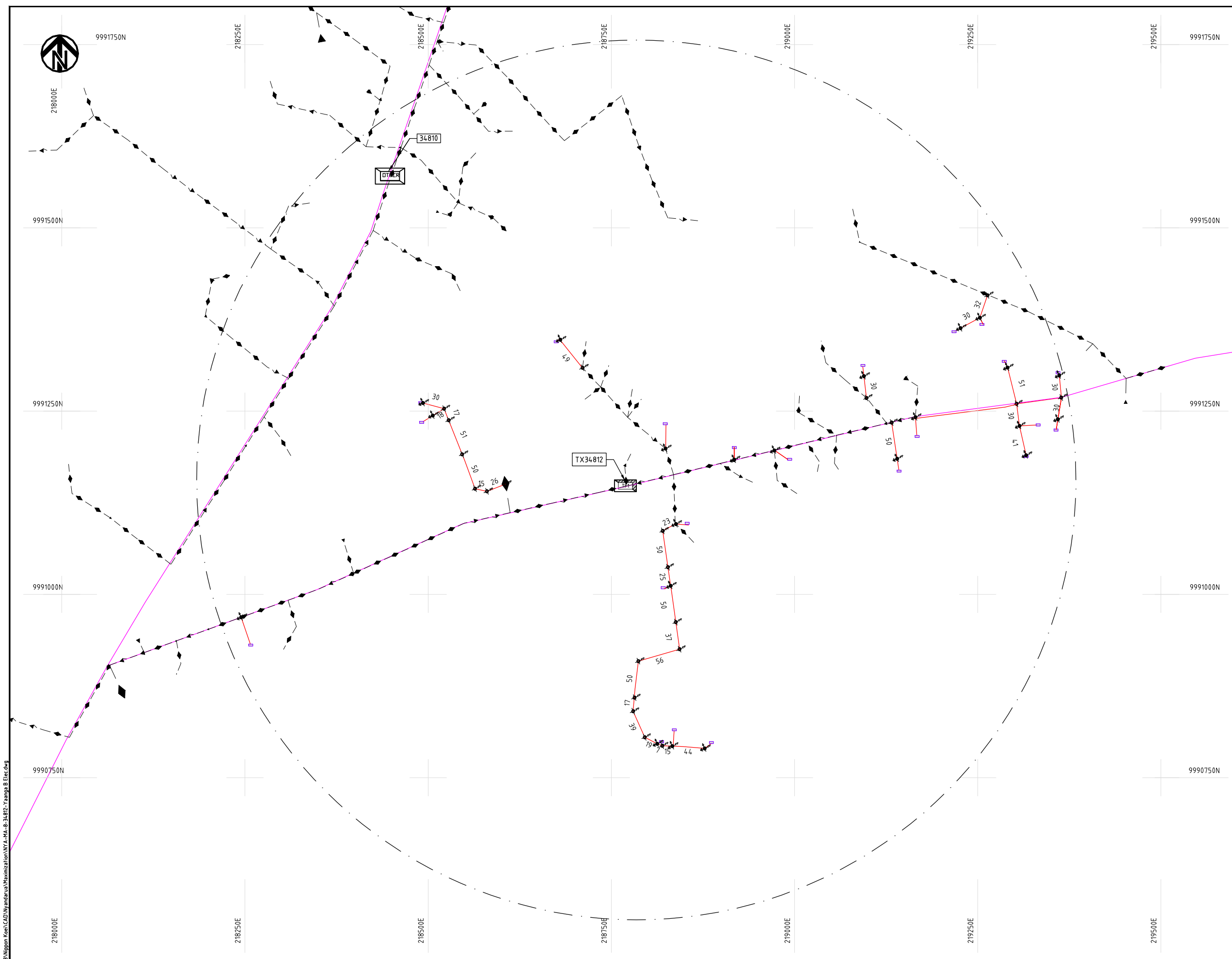
APPROVED BY

Y.TANAKA

DATE

10th SEP 2018

NIPPON KOEI CO., LTD

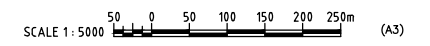


NOTES:

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

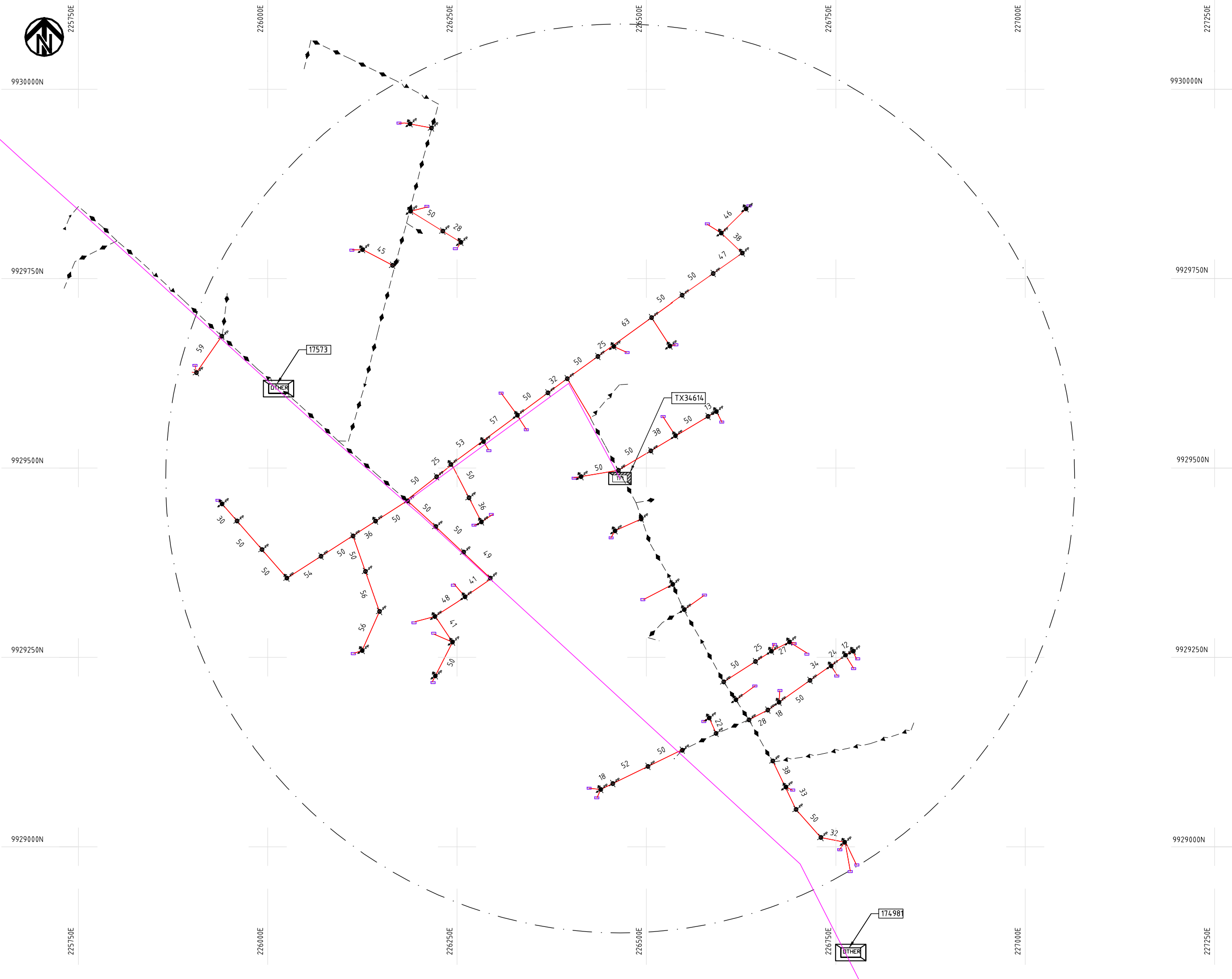
- HOUSEHOLDS/ BUILDINGS
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- OTHER EXISTING TRANSFORMER
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING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



Cad File No. D:\Frank-Proj\2018\Nippon Koei\CAD\Nyandarua\Maximization\NYA-MA-8-34812-Yaanga B Elec.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: 34812-Yaanga B Elec | NYA-MA-8 | 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)

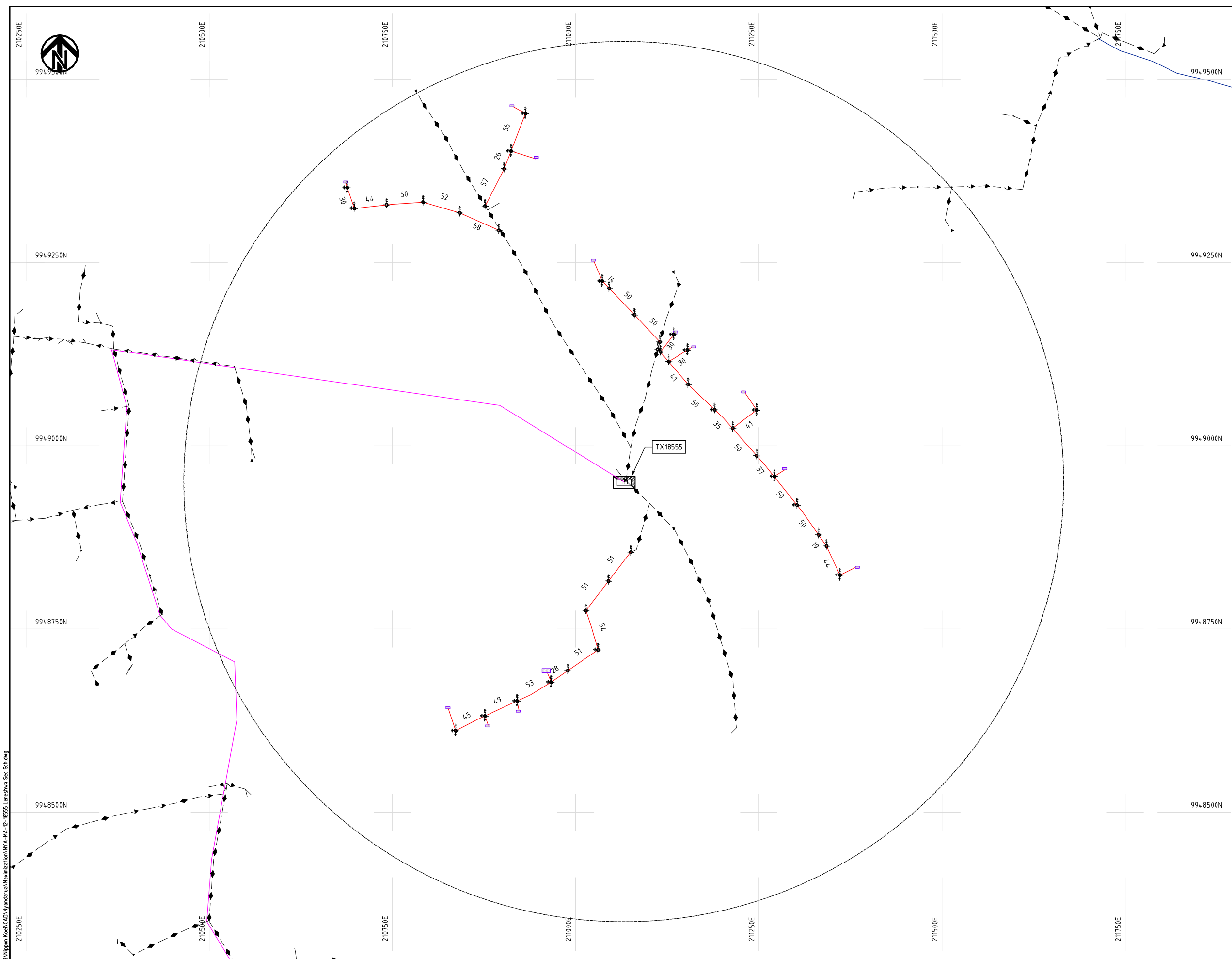
PROJECT:
**THE PREPARATORY SURVEY
 ON THE PROJECT FOR IMPROVEMENT
 OF POWER DISTRIBUTION SYSTEM
 IN THE REPUBLIC OF KENYA**

DRAWING TITLE
 COUNTY: NYANDARUA
 SCHEME: MAXIMIZATION
 PROJECT SITE: 34614 -Dedan Mwenda Matunduri

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



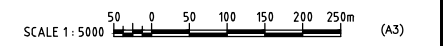
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- NOTES:**
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 2. CONCRETE / WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 4. PME TO BE AFTER EVERY 200m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

LEGEND

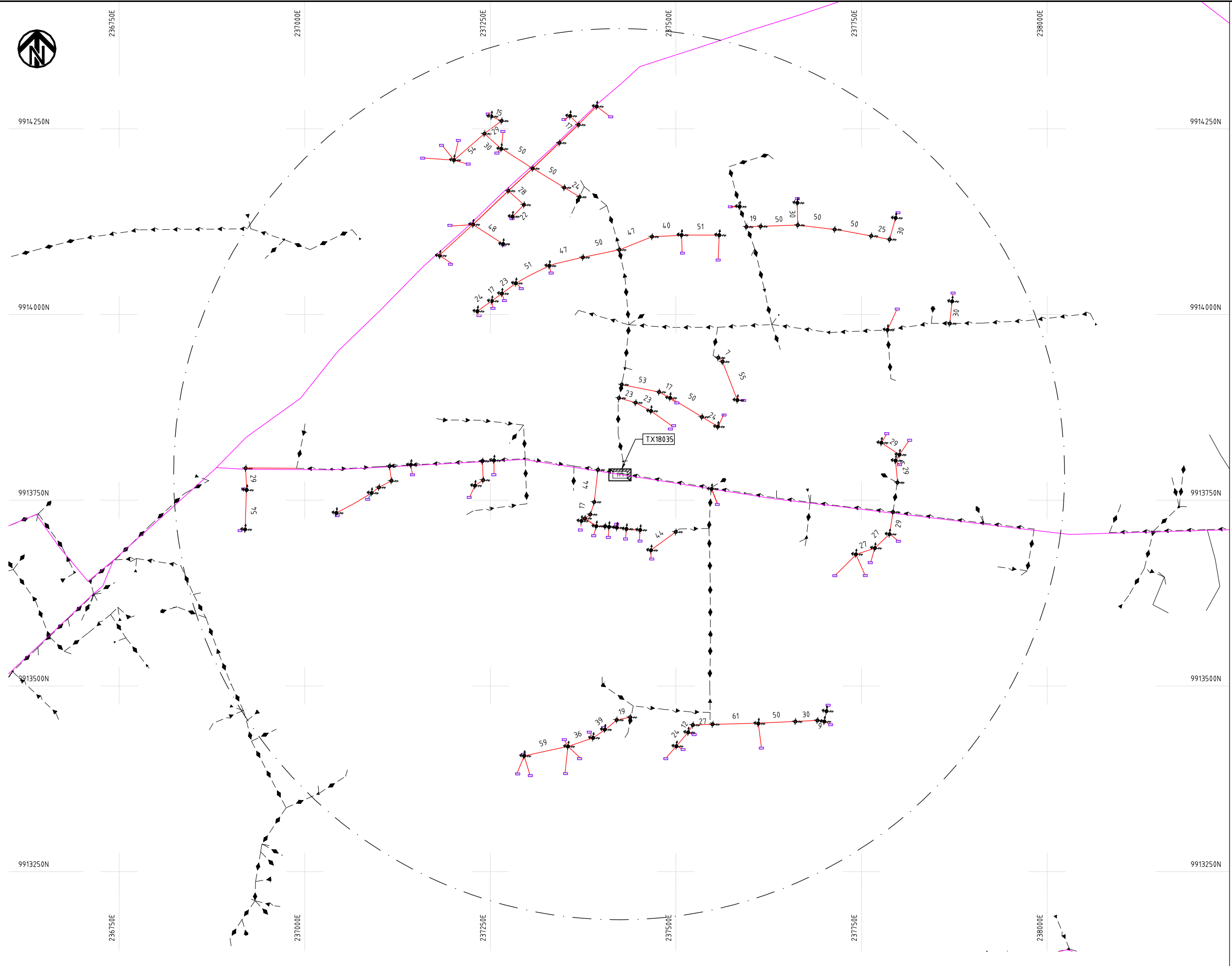
- HOUSEHOLDS/ BUILDINGS
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- OTHER EXISTING TRANSFORMER
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING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



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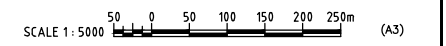
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|--|--|--|-------------|---------------|---------|
| PROJECT: THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA | DRAWING TITLE COUNTY: NYANDARUA SCHEME: MAXIMIZATION PROJECT SITE: 18555-Lereshwa Sec School | | DRAW. NO. | PREPARED BY | A.AKBAR |
| | | | NYA-MA-12 | CHECKED BY | S.MAETA |
| | | | APPROVED BY | Y.TANAKA | |
| | | | DATE | 10th SEP 2018 | |





- 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-13-18035-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: NYANDARUA | | NYA-MA-13 | CHECKED BY | S.MAETA |
| | SCHEME: MAXIMIZATION | | | APPROVED BY | Y.TANAKA |
| | PROJECT SITE: 18035-Naivasha Sub Station (132_33kV) | | | DATE | 10th SEP 2018 |





208000E

208250E

208500E

208750E

209000E

209250E

9981000N

9981000N

9980750N

9980750N

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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
-  WOODEN ELECTRIC POLES
-  CONCRETE ELECTRIC POLES
-  LV-EARTH
-  PME -PROTECTIVE MULTIPLE EARTHING
-  STAY



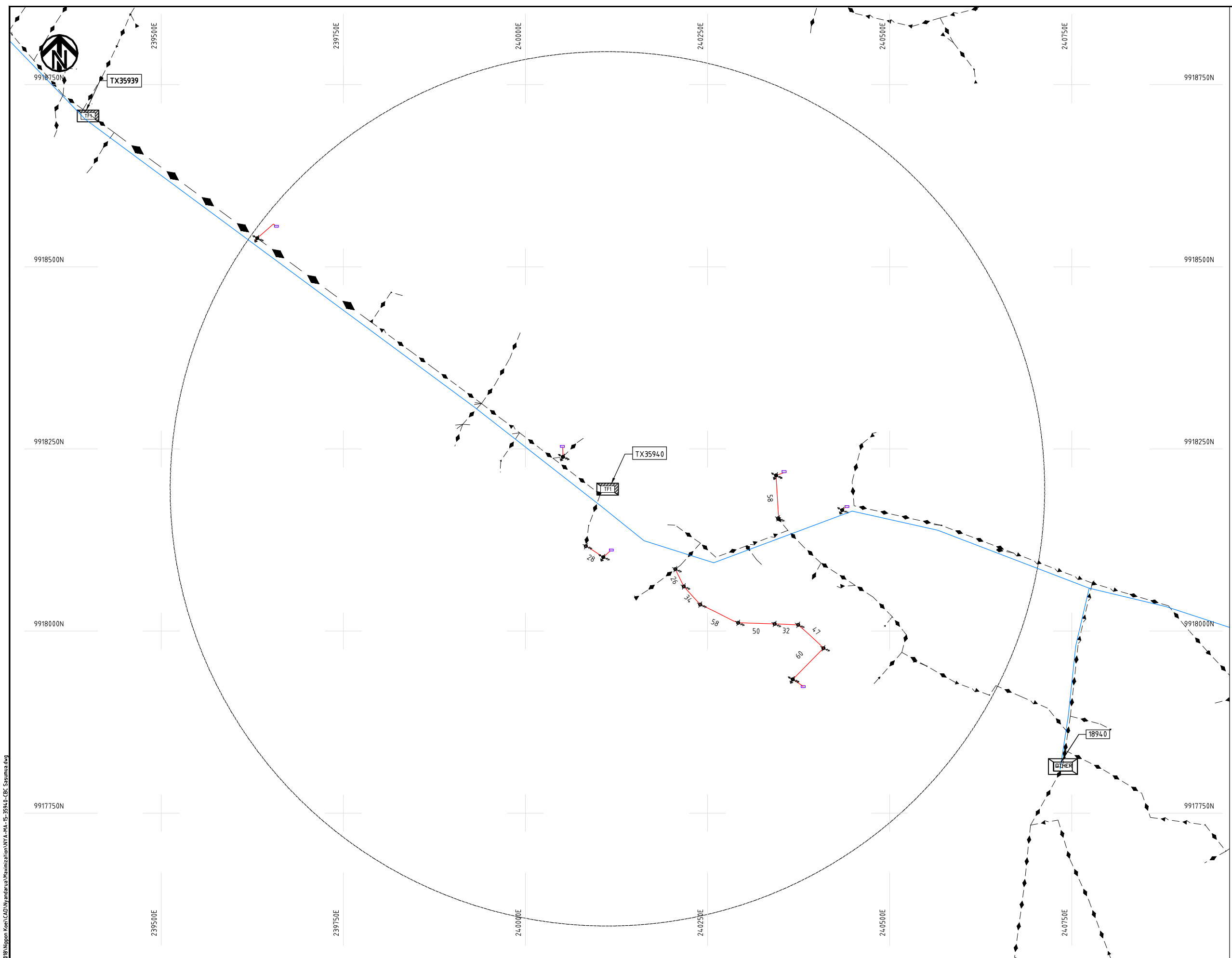
PROJECT:
 THE PREPARATORY SURVEY
 ON THE PROJECT FOR IMPROVEMENT
 OF POWER DISTRIBUTION SYSTEM
 IN THE REPUBLIC OF KENYA

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

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

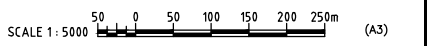


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- NOTES:**
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.
 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\Nyandarua\Maximization\NYA-MA-15-35940-CBC Sasumua.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 | NYA-MA-15 | CHECKED BY | S.MAETA |
| PROJECT SITE: 35940 CBC Sasumua | | | | APPROVED BY | Y.TANAKA |
| | | | | DATE | 10th SEP 2018 |





9919250N

9919000N

9918750N

9918500N

9918250N

9919250N

9919000N

9918750N

9918500N

9918250N

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240000E

238750E

239000E

239250E

239500E

239750E

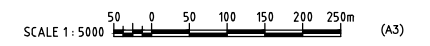
240000E

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



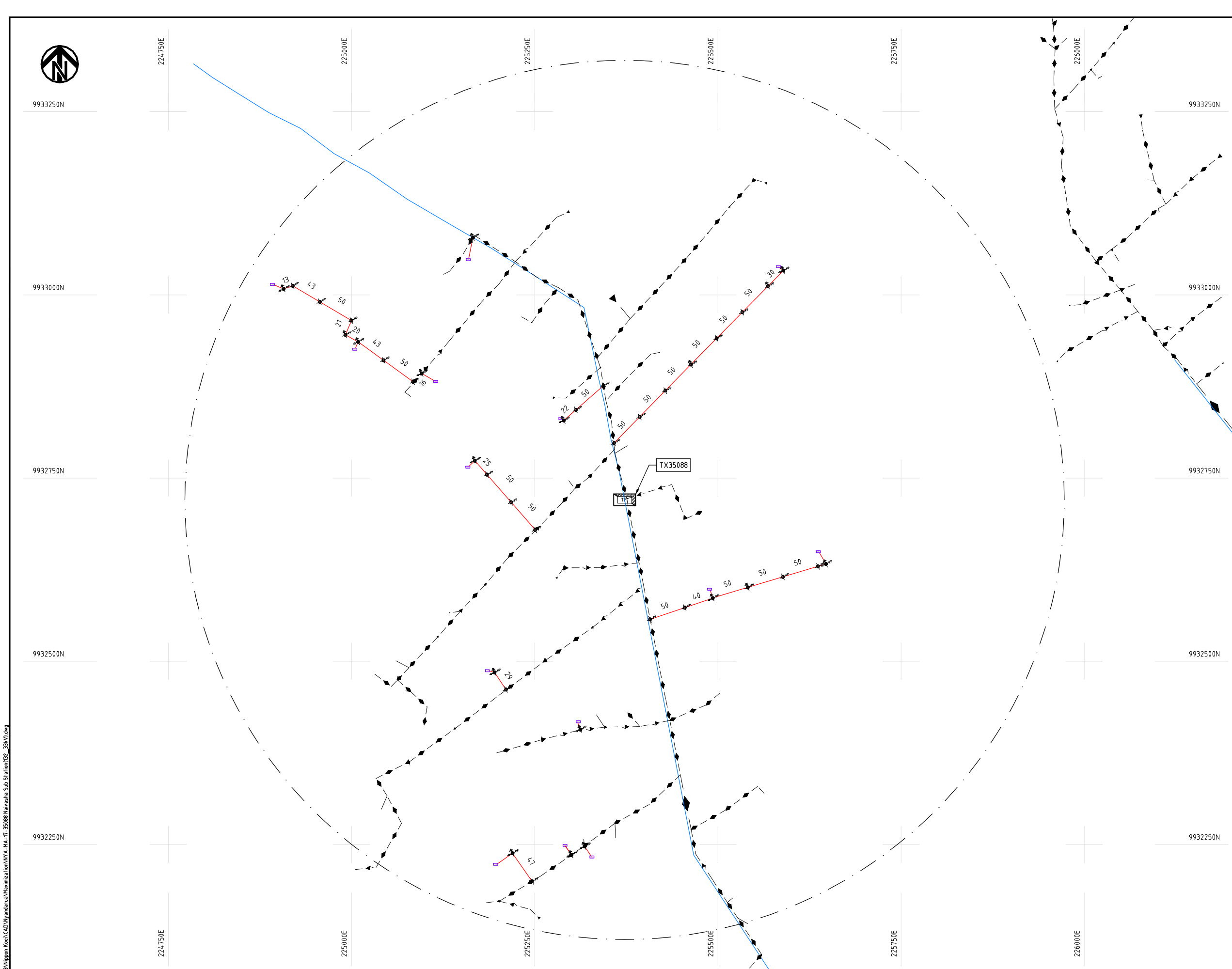
PROJECT:
**THE PREPARATORY SURVEY
 ON THE PROJECT FOR IMPROVEMENT
 OF POWER DISTRIBUTION SYSTEM
 IN THE REPUBLIC OF KENYA**

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

| | | |
|-----------|-------------|---------------|
| DRAW. NO. | PREPARED BY | A.AKBAR |
| | 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-16-35939-CBC Sasumua Dam.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

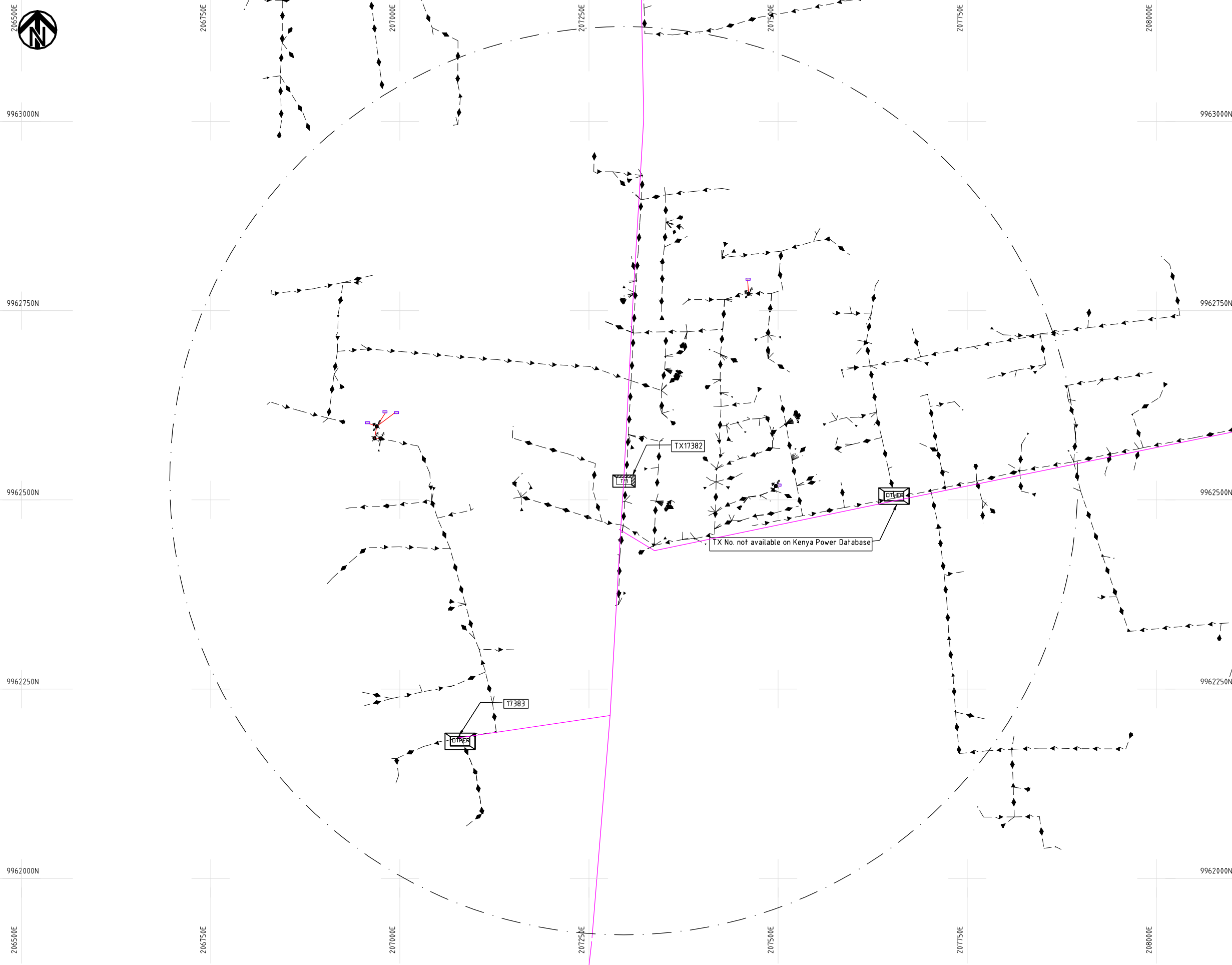
- HOUSEHOLDS/ BUILDINGS
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- OTHER EXISTING TRANSFORMER
- PP WOODEN ELECTRIC POLES
- CP CONCRETE ELECTRIC POLES
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING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



Cad File No. D:\Frank-Proj\2018\Nippon Koei\CAD\Nyandarua\Maximization\NYA-MA-TI-35088-Naivasha Sub Station\132_33kV.dwg
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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-17 | CHECKED BY | S.MAETA |
| | SCHEME: MAXIMIZATION | | | APPROVED BY | Y.TANAKA |
| | PROJECT SITE: 35088-Naivasha Sub Station (132_33kV) | | | DATE | 10th SEP 2018 |



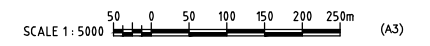


NOTES:

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



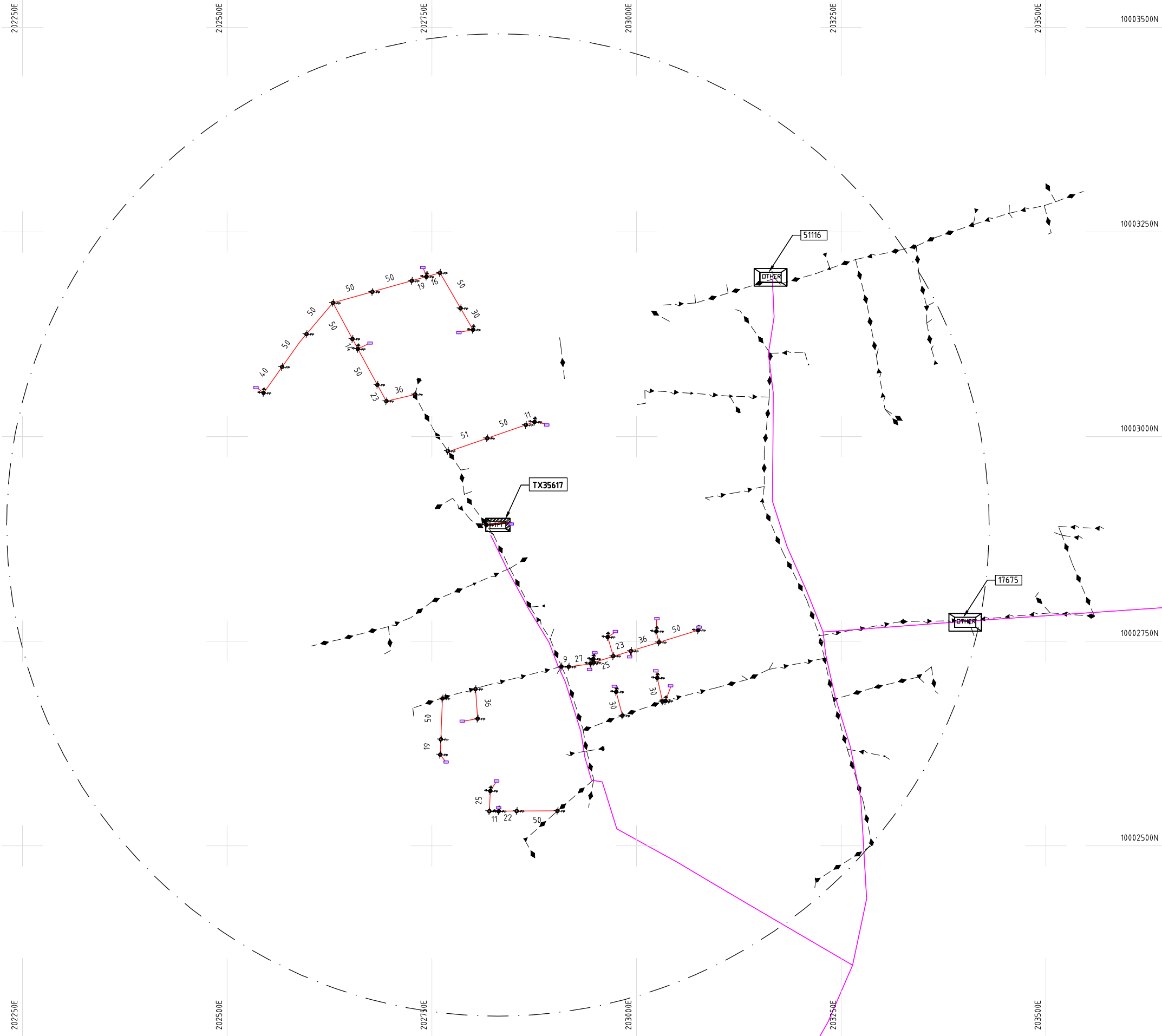
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PROJECT:
**THE PREPARATORY SURVEY
 ON THE PROJECT FOR IMPROVEMENT
 OF POWER DISTRIBUTION SYSTEM
 IN THE REPUBLIC OF KENYA**

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

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



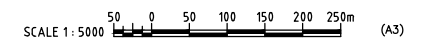


NOTES:

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.
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



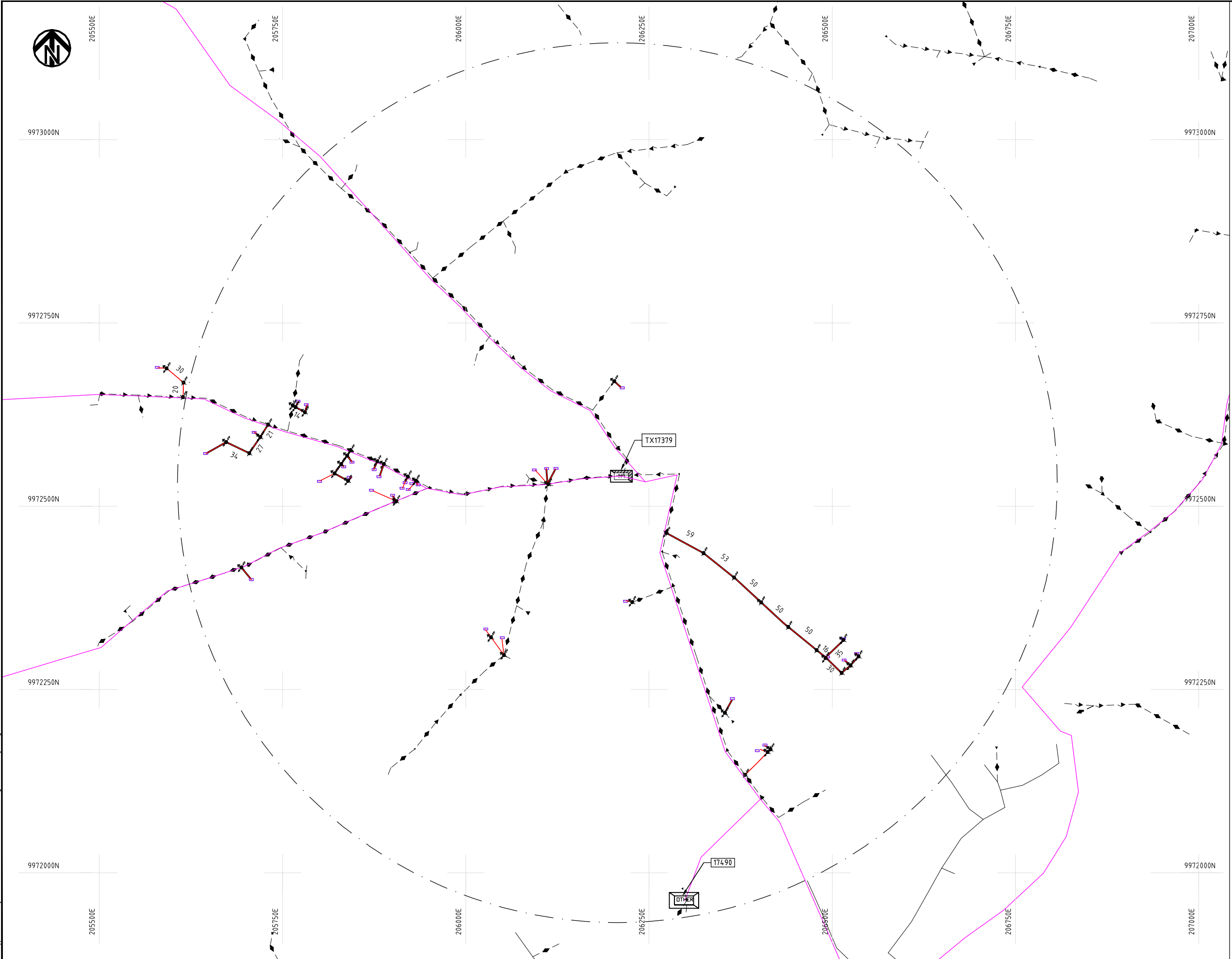
PROJECT:
 THE PREPARATORY SURVEY
 ON THE PROJECT FOR IMPROVEMENT
 OF POWER DISTRIBUTION SYSTEM
 IN THE REPUBLIC OF KENYA

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

| | | |
|-----------|-------------|---------------|
| DRAW. NO. | PREPARED BY | A.AKBAR |
| NYA-MA-19 | CHECKED BY | S.MAETA |
| | APPROVED BY | Y.TANAKA |
| | DATE | 10th SEP 2018 |

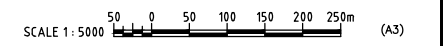


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- NOTES:**
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 2. CONCRETE / WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
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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

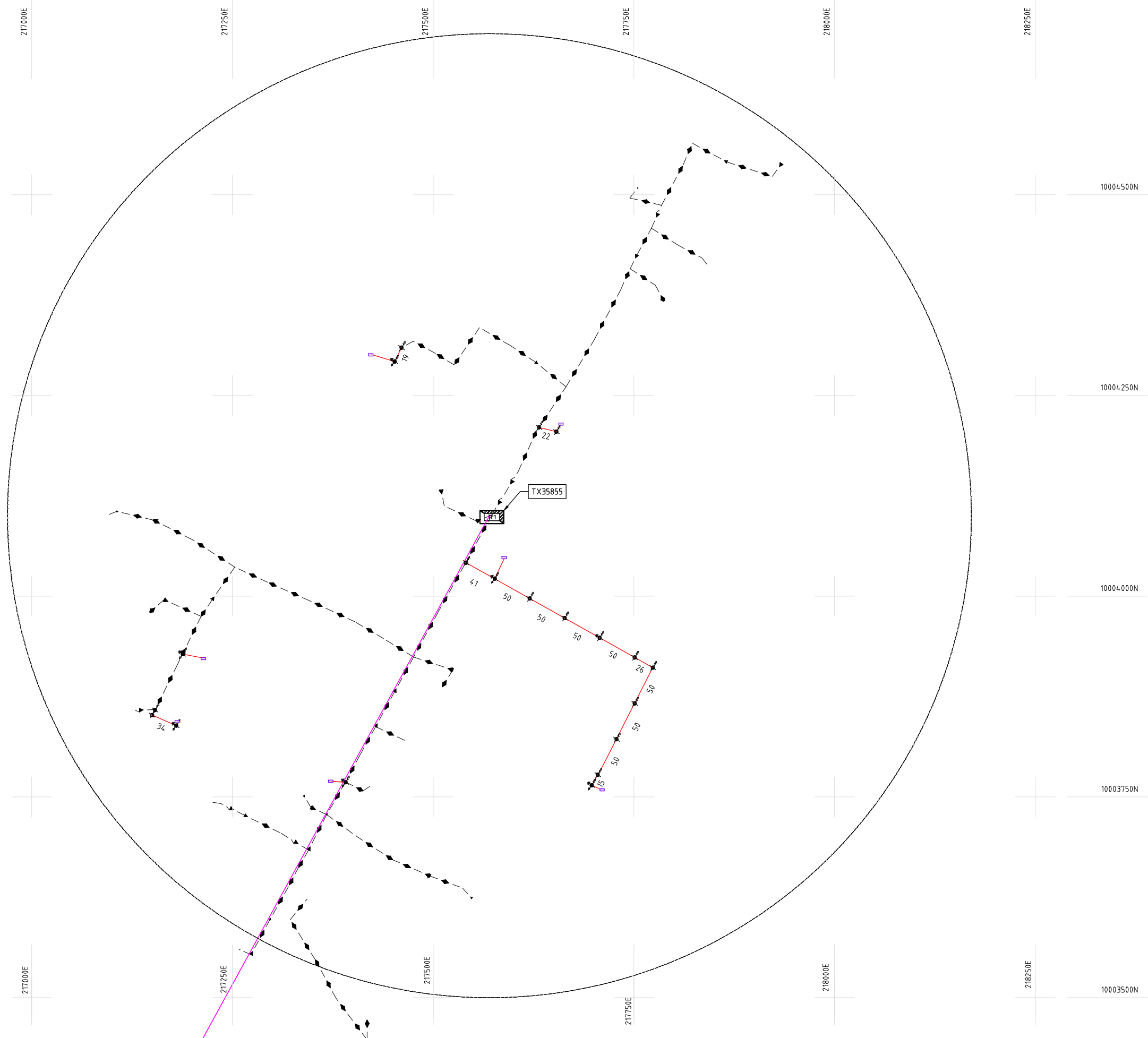
- LEGEND**
- HOUSEHOLDS/ BUILDINGS
 - PROPOSED DISTRIBUTION LINE
 - EXISTING 11kV LINE
 - EXISTING 33kV LINE
 - EXISTING DISTRIBUTION LINE
 - MAXIMISATION TRANSFORMER
 - EXTENSION TRANSFORMER
 - OTHER EXISTING TRANSFORMER
 - WOODEN ELECTRIC POLES
 - CONCRETE ELECTRIC POLES
 - LV-EARTH
 - PME -PROTECTIVE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



Cad File No. D:\Frank-Proj\2018\Nippon Koei\CAD\Nyandarua\Maximization\NYA-MA-20-17379 Mugumo Water Project.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-20 | CHECKED BY | S.MAETA |
| SCHEME: MAXIMIZATION | | APPROVED BY | | Y.TANAKA | |
| PROJECT SITE: 17379-Mugumo Water Project | | | DATE | 10th SEP 2018 | |



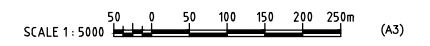


NOTES:

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

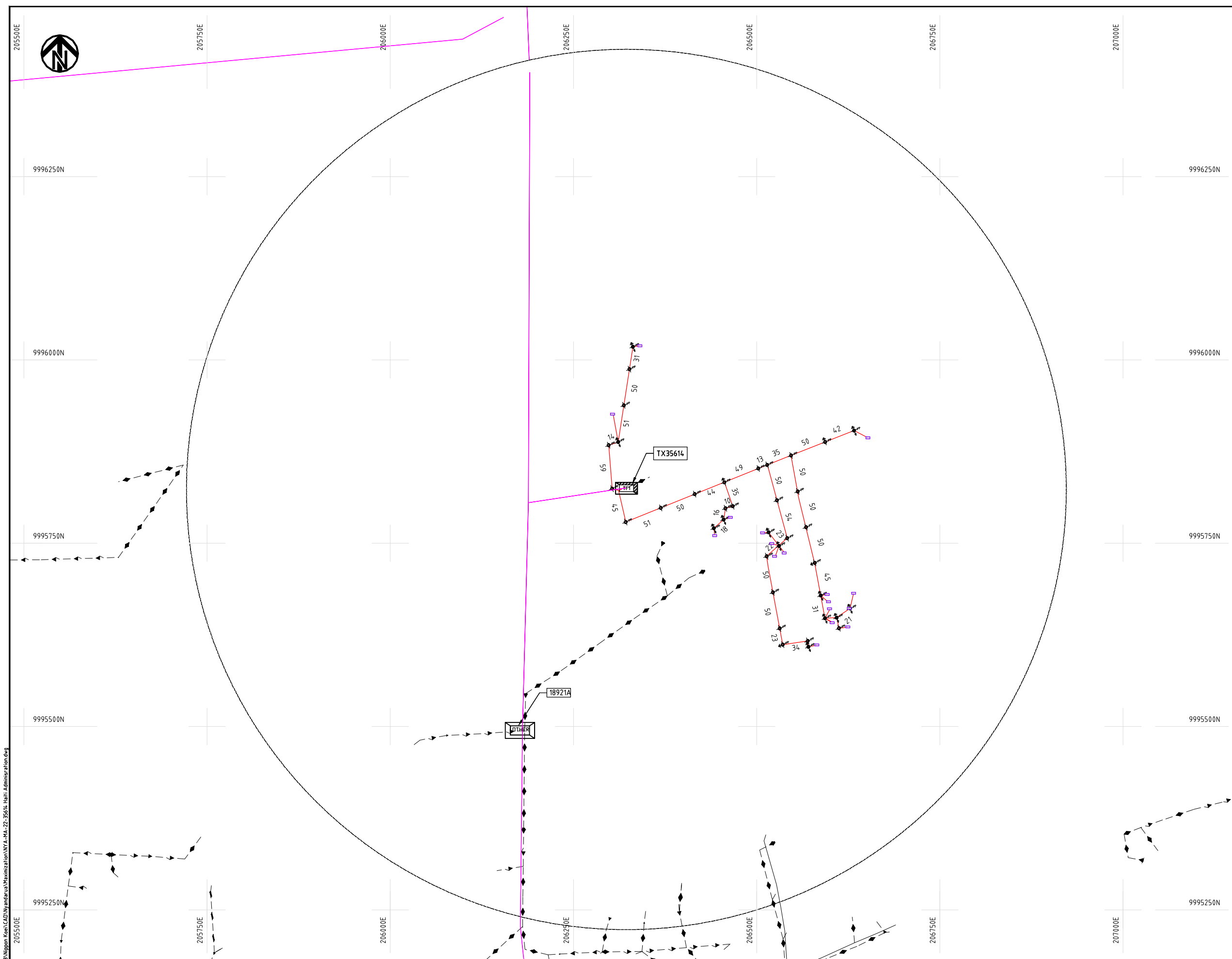
- HOUSEHOLDS/ BUILDINGS
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- OTHER EXISTING TRANSFORMER
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING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



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

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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: 35855-CBC Mutanga | NYA-MA-21 | CHECKED BY | S.MAETA |
| | | | | APPROVED BY | Y.TANAKA |
| | | | | DATE | 10th SEP 2018 |



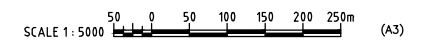


NOTES:

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.
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-22-35614-Haiti Administration.dwg

| | | | | | |
|--|---|--|-------------|---------------|---------|
| 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: 35614-Haiti Administration | | DRAW. NO. | PREPARED BY | A.AKBAR |
| | | | NYA-MA-22 | CHECKED BY | S.MAETA |
| | | | APPROVED BY | Y.TANAKA | |
| | | | DATE | 10th SEP 2018 | |





9973250N

204750E

205000E

205250E

205500E

205750E

206000E

9973000N

9973000N

9972750N

9972750N

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205250E

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205750E

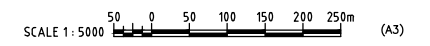
206000E

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



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



206250E

206500E

206750E

207000E

207250E

207500E

207750E

9957500N

9957500N

9957250N

9957250N

9957000N

9957000N

9956750N

9956750N

9956500N

9956500N

206250E

206500E

206750E

207000E

207250E














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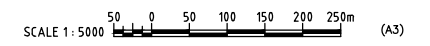
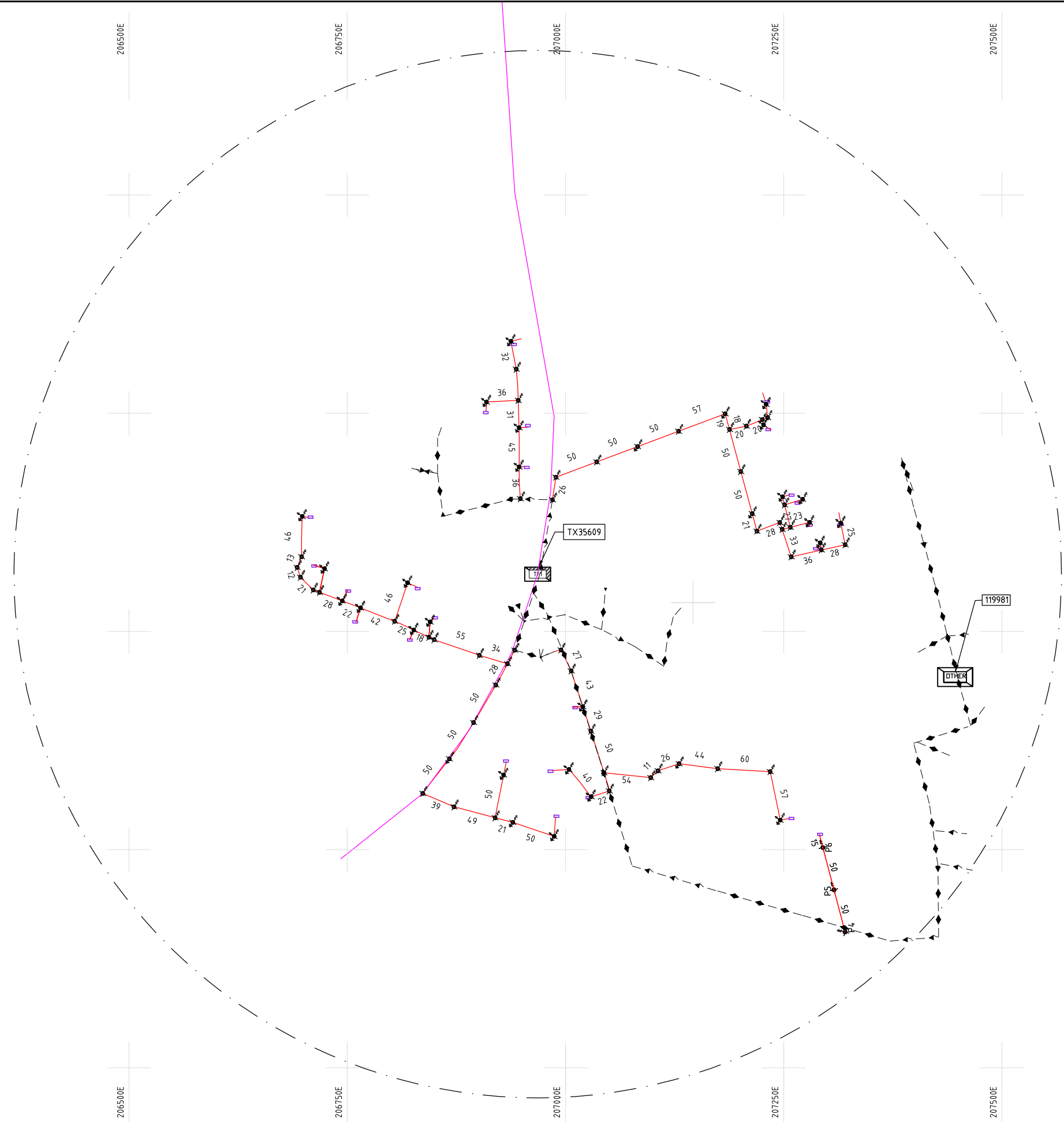
207750E

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



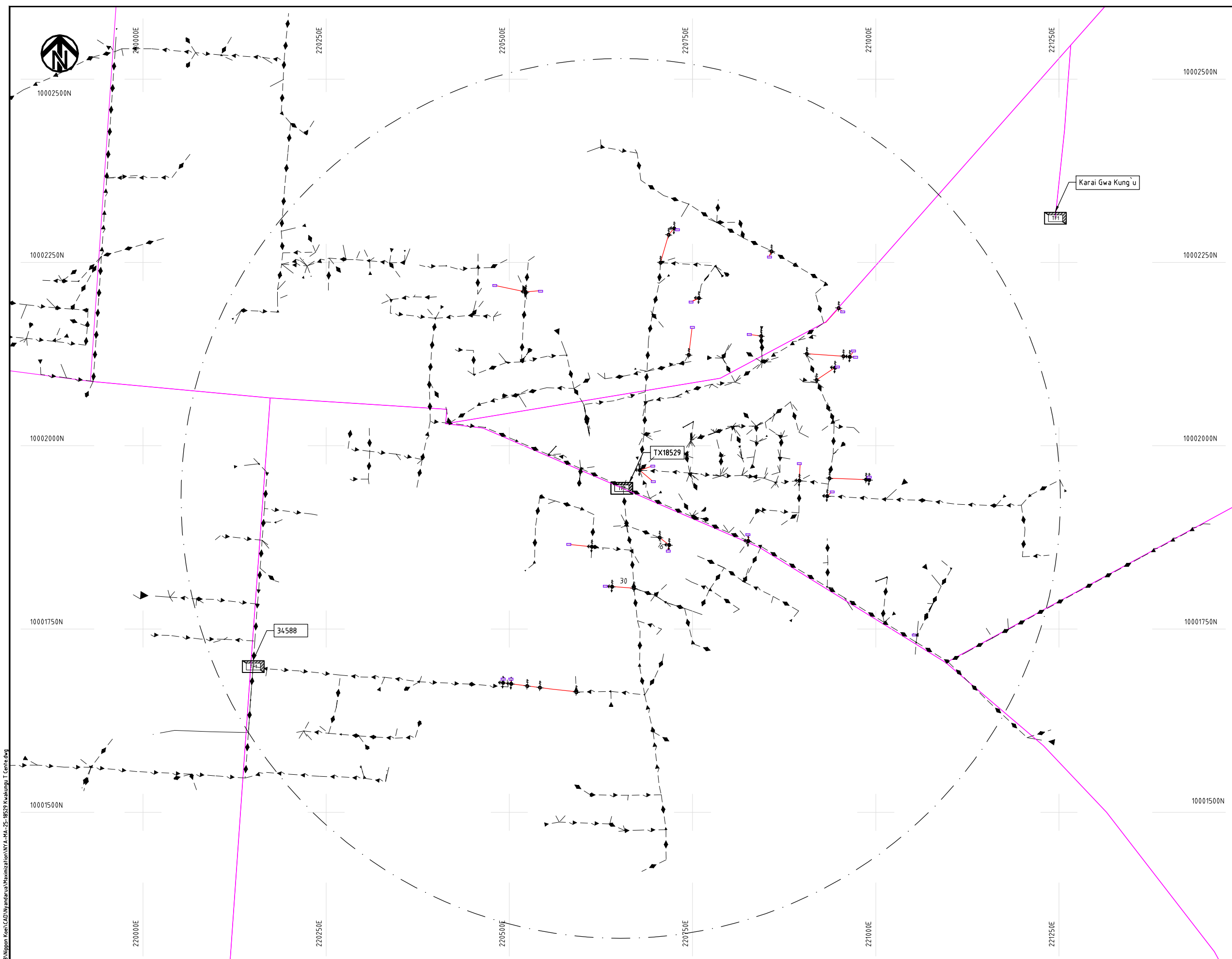
PROJECT:
**THE PREPARATORY SURVEY
 ON THE PROJECT FOR IMPROVEMENT
 OF POWER DISTRIBUTION SYSTEM
 IN THE REPUBLIC OF KENYA**

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

| | | |
|-----------|-------------|---------------|
| DRAW. NO. | PREPARED BY | A.AKBAR |
| NYA-MA-24 | 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-24-35609 Simba Primary School.dwg
 Oct 17, 2018 - 12:50pm

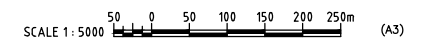


NOTES:

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\Wysandaru\Maximization\NYA-MA-25-18529 Kwakungu T Centre.dwg

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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: 18529-Kwakungu T Centre | NYA-MA-25 | CHECKED BY | S.MAETA |
| | | | | APPROVED BY | Y.TANAKA |
| | | | | DATE | 10th SEP 2018 |





10000000N

9999750N

9999500N

9999250N

9999000N

217000E

217250E

217500E

217750E

218000E

218250E

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9999500N

9999250N

9999000N

217250E

217500E

217750E

218000E














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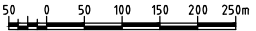
218500E

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: 107724 Karagoini PCEA Church

DRAW. NO.

NYA-MA-26

PREPARED BY

A.AKBAR

CHECKED BY

S.MAETA

APPROVED BY

Y.TANAKA

DATE

10th SEP 2018





9992750N

220250E

9992500N

9992250N

9992000N

9991750N

220500E

220500E

220750E

220750E

221000E

221000E

221250E

221250E

221500E

221500E

221750E

221750E

9992750N

9992500N

9992250N

9992000N

9991750N

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: 34341-Kihara School

DRAW. NO.

NYA-MA-27

PREPARED BY

A.AKBAR

CHECKED BY

S.MAETA

APPROVED BY

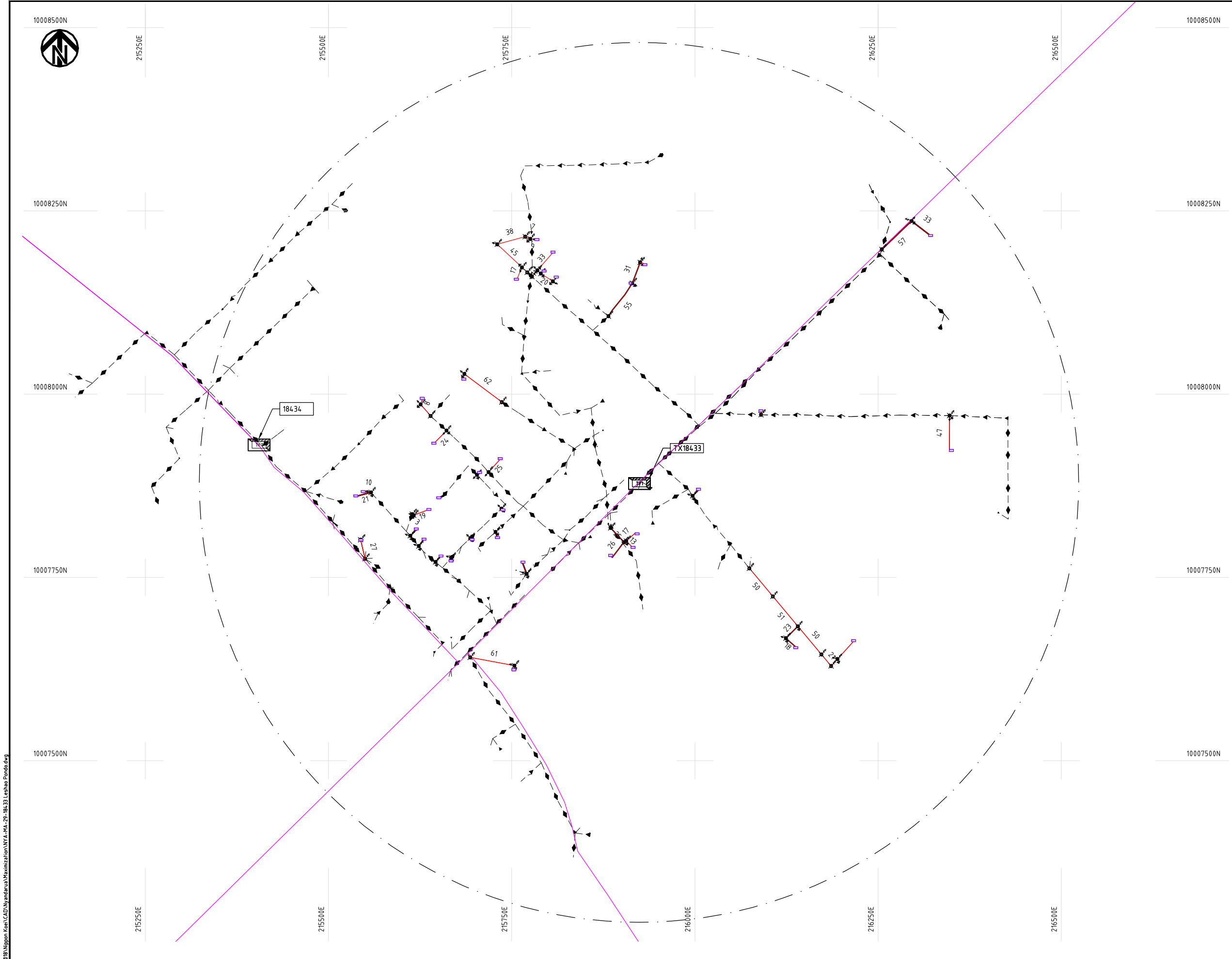
Y.TANAKA

DATE

10th SEP 2018



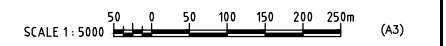
NIPPON KOEI CO., LTD



- 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

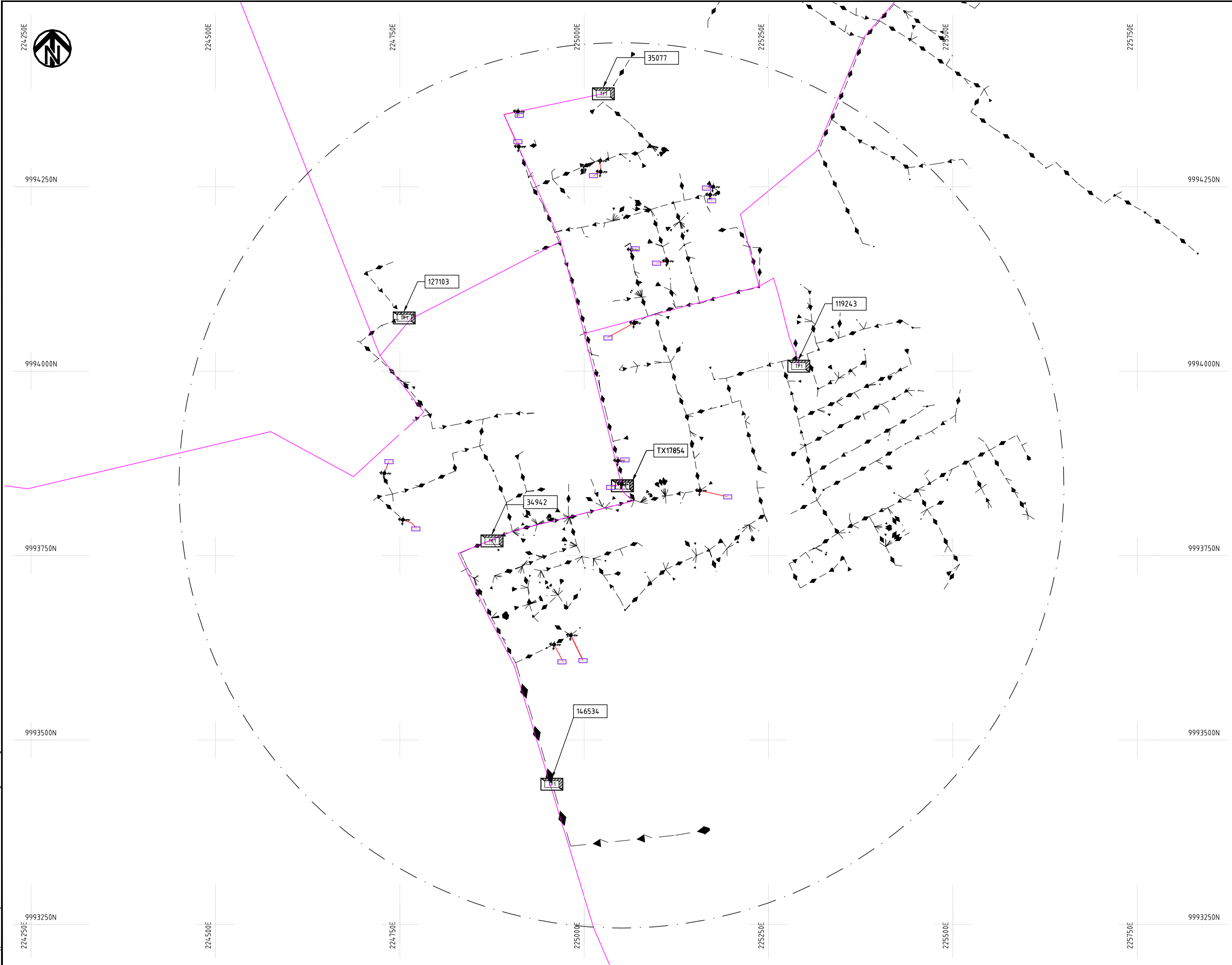
- HOUSEHOLDS/ BUILDINGS
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- OTHER EXISTING TRANSFORMER
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING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



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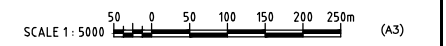
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| PROJECT: THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA | DRAWING TITLE | | DRAW. NO. | PREPARED BY | A.AKBAR |
| | COUNTY: NYANDARUA | | NYA-MA-29 | CHECKED BY | S.MAETA |
| SCHEME: MAXIMIZATION | | APPROVED BY | | Y.TANAKA | |
| PROJECT SITE: 18433 LESHAO PONDO | | 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-3-17854-Ndaragwa Centre.dwg

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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-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

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208000E

208250E

208500E

208750E

209000E

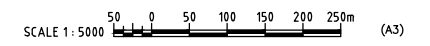
209250E

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



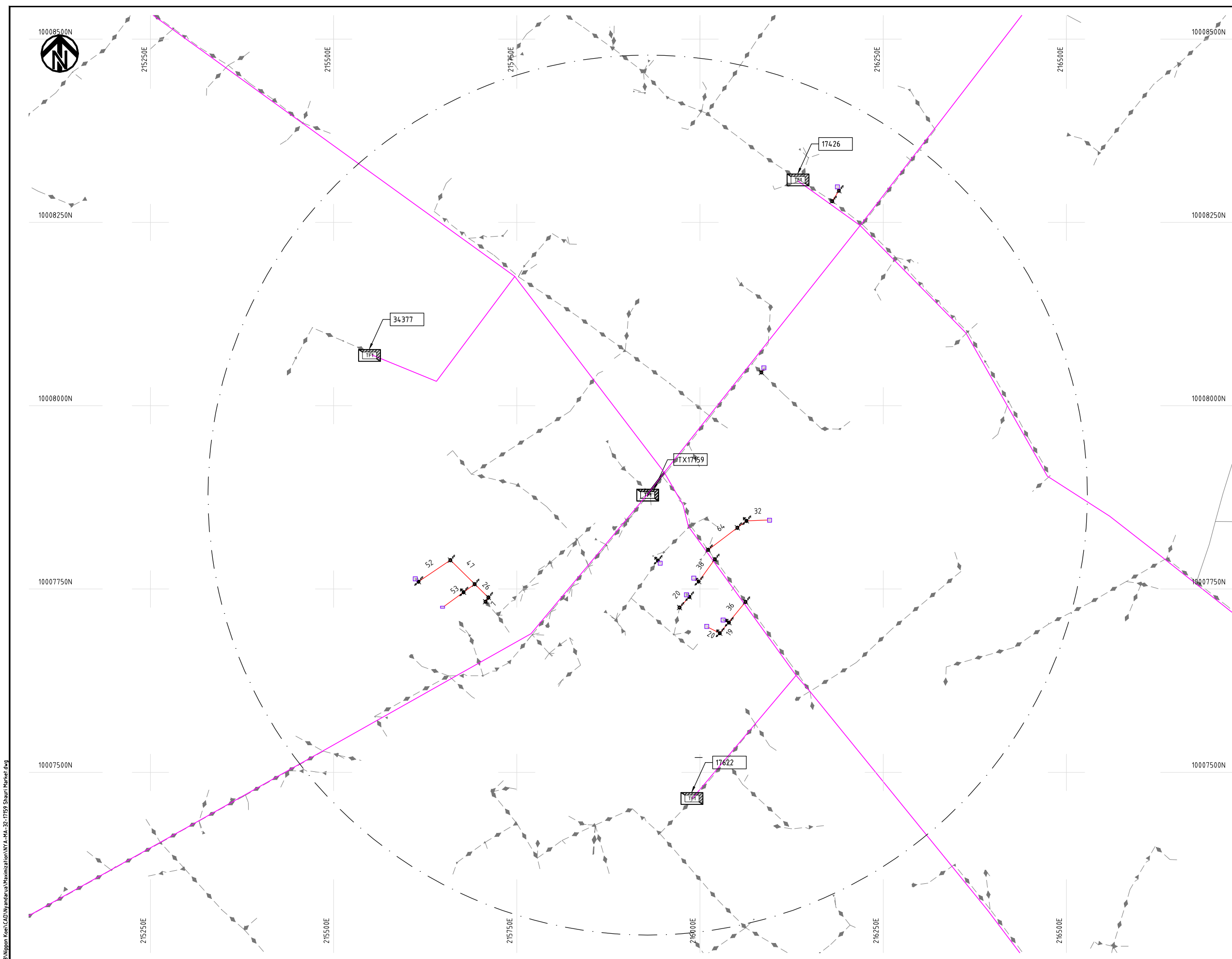
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PROJECT:
**THE PREPARATORY SURVEY
 ON THE PROJECT FOR IMPROVEMENT
 OF POWER DISTRIBUTION SYSTEM
 IN THE REPUBLIC OF KENYA**

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

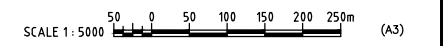
| | | |
|-----------|-------------|---------------|
| DRAW. NO. | PREPARED BY | A.AKBAR |
| | CHECKED BY | S.MAETA |
| | APPROVED BY | Y.TANAKA |
| | DATE | 10th SEP 2018 |





- 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\Nyandarua\Maximization\NYA-MA-32-1759 Shauri Market.dwg

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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-32 | CHECKED BY | S.MAETA |
| | SCHEME: MAXIMIZATION | | | APPROVED BY | Y.TANAKA |
| | PROJECT SITE: 17159 SHAURI MARKET | | | DATE | 10th SEP 2018 |

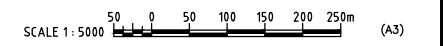




- NOTES:**
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 2. CONCRETE / WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.
 5. POLES NOT SHOWN WHERE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

LEGEND

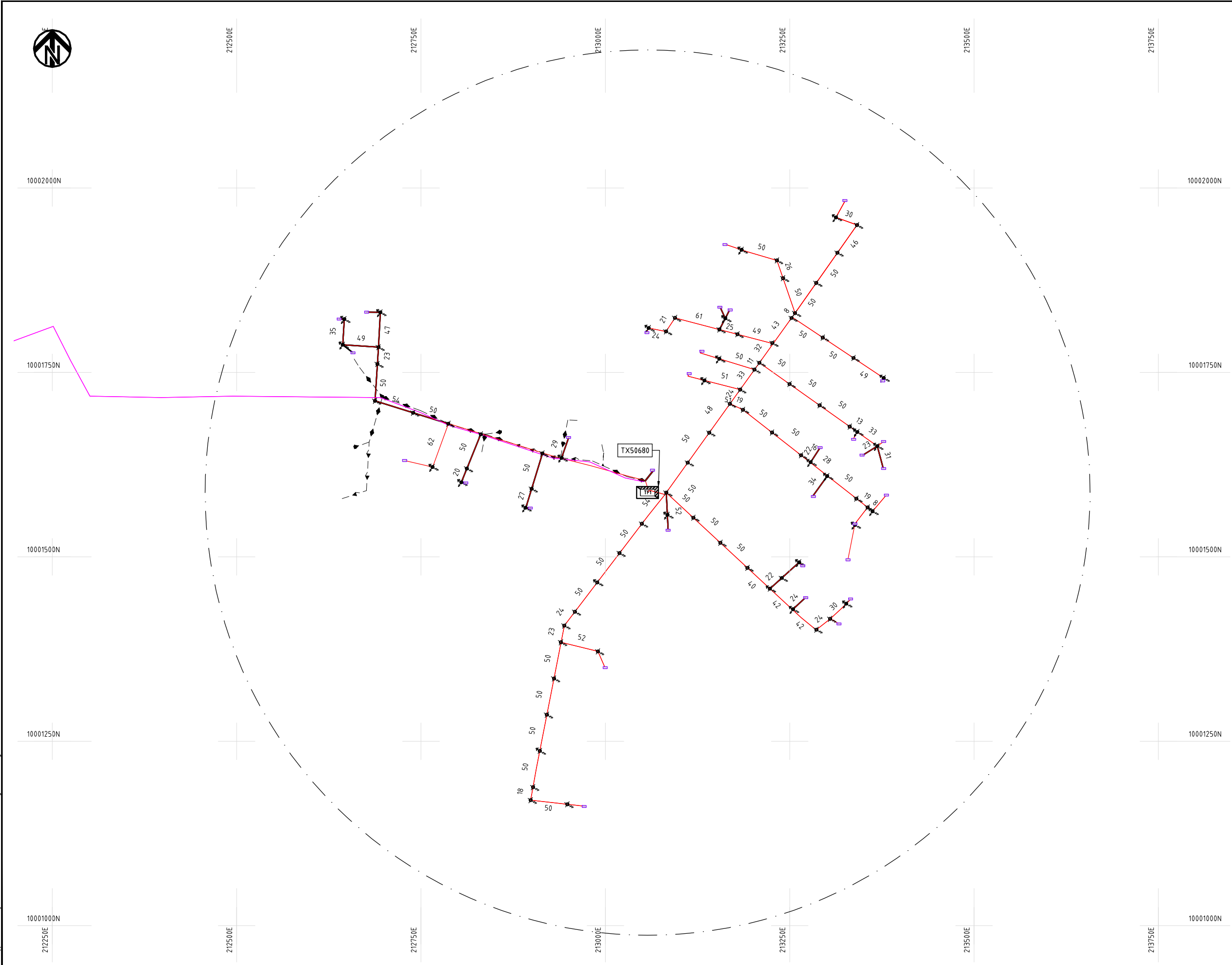
- HOUSEHOLDS/ BUILDINGS
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- OTHER EXISTING TRANSFORMER
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING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



Cad File No. D:\Frank-Proj\2018\Nippon Koei\CAD\Nyandarua\Maximization\NYA-MA-33-17161 Hon Kimondo Wagura.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-33 | CHECKED BY | S.MAETA |
| | SCHEME: MAXIMIZATION | | | APPROVED BY | Y.TANAKA |
| | PROJECT SITE: 17161 Hon Kimondo Wagura | | | DATE | 10th SEP 2018 |

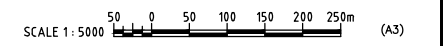




- NOTES:**
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 2. CONCRETE / WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.
 5. POLES NOT SHOWN WHERE 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-Prj\2018\Nippon Koei\CAD\Nyandarua\Maximization\NYA-MA-34-50680 Mugetho B Hole.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-34 | CHECKED BY | S.MAETA |
| SCHEME: MAXIMIZATION | | APPROVED BY | | Y.TANAKA | |
| PROJECT SITE: 50680 Mugetho B/Hole | | DATE | | 10th SEP 2018 | |





9972250N

207500E

207750E

208000E

208250E

208500E

208750E

9972250N

9972000N

05384

05383

05382

9972000N

9971750N

TX17999

50

9971750N

143983

9971500N

9971500N

9971250N

127474

9971250N

207500E

207500E

208000E

208250E

208500E

208750E

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



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: 17999-01kalau Holdings

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



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9991750N

218000E

9991500N

9991250N

9991000N

9990750N

218000E

218250E

218500E

218750E

219000E

219250E

219500E

9991750N

9991500N

9991250N

9991000N

9990750N

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: 18850-Sambara Market

DRAW. NO.

NYA-MA-36

PREPARED BY

A.AKBAR

CHECKED BY

S.MAETA

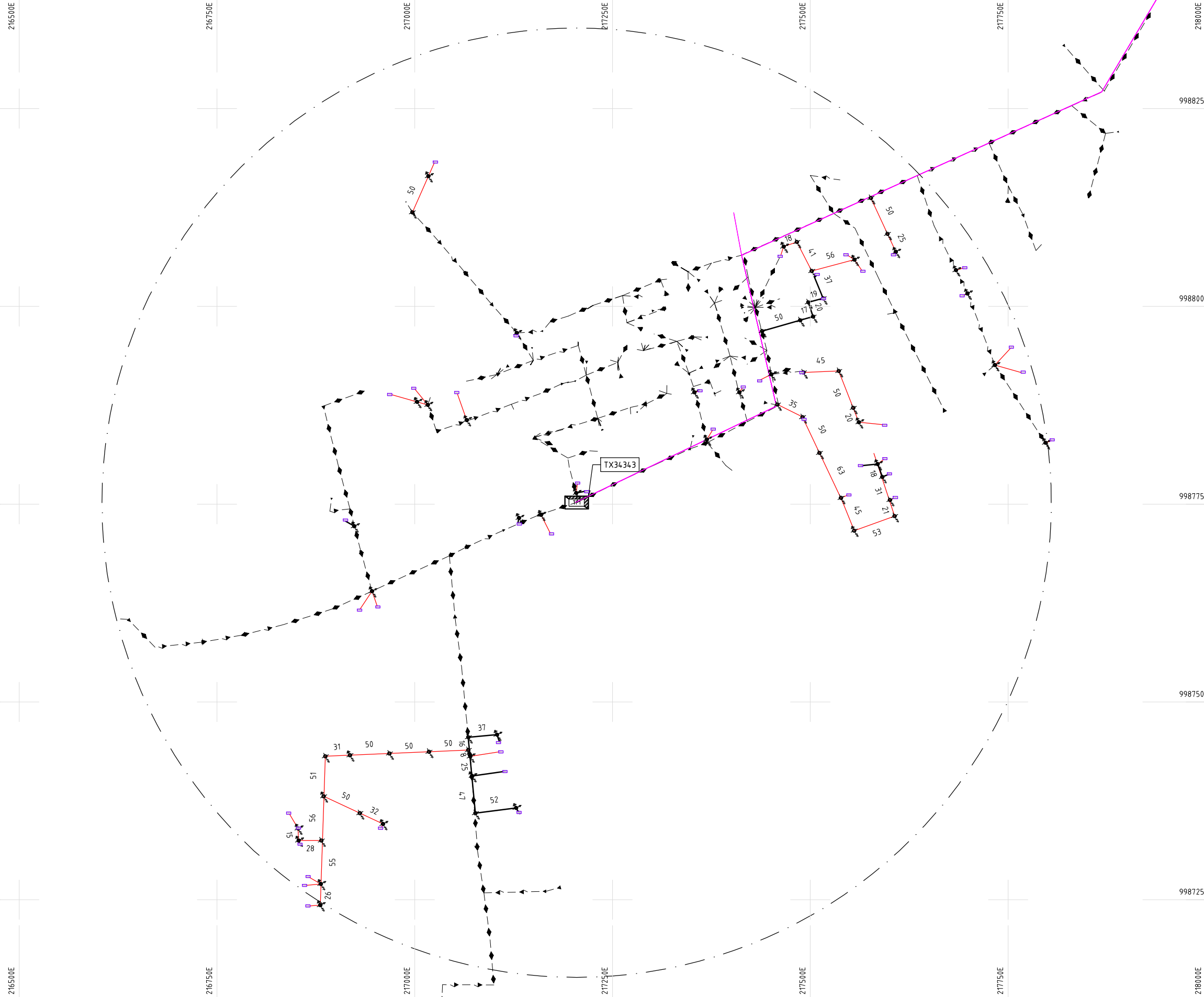
APPROVED BY

Y.TANAKA

DATE

10th SEP 2018



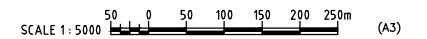


NOTES:

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



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. | PREPARED BY | A.AKBAR |
| NYA-MA-37 | CHECKED BY | S.MAETA |
| | APPROVED BY | Y.TANAKA |
| | DATE | 10th SEP 2018 |





9968750N

9968500N

9968250N

9968000N

9967750N

202250E

202500E

202750E

203000E

203250E

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9967750N

202250E

202500E

202750E

203000E














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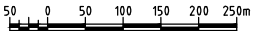
203500E

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: 1064.01-Gachwe Pimary School

DRAW. NO.

NYA-MA-38

PREPARED BY

A.AKBAR

CHECKED BY

S.MAETA

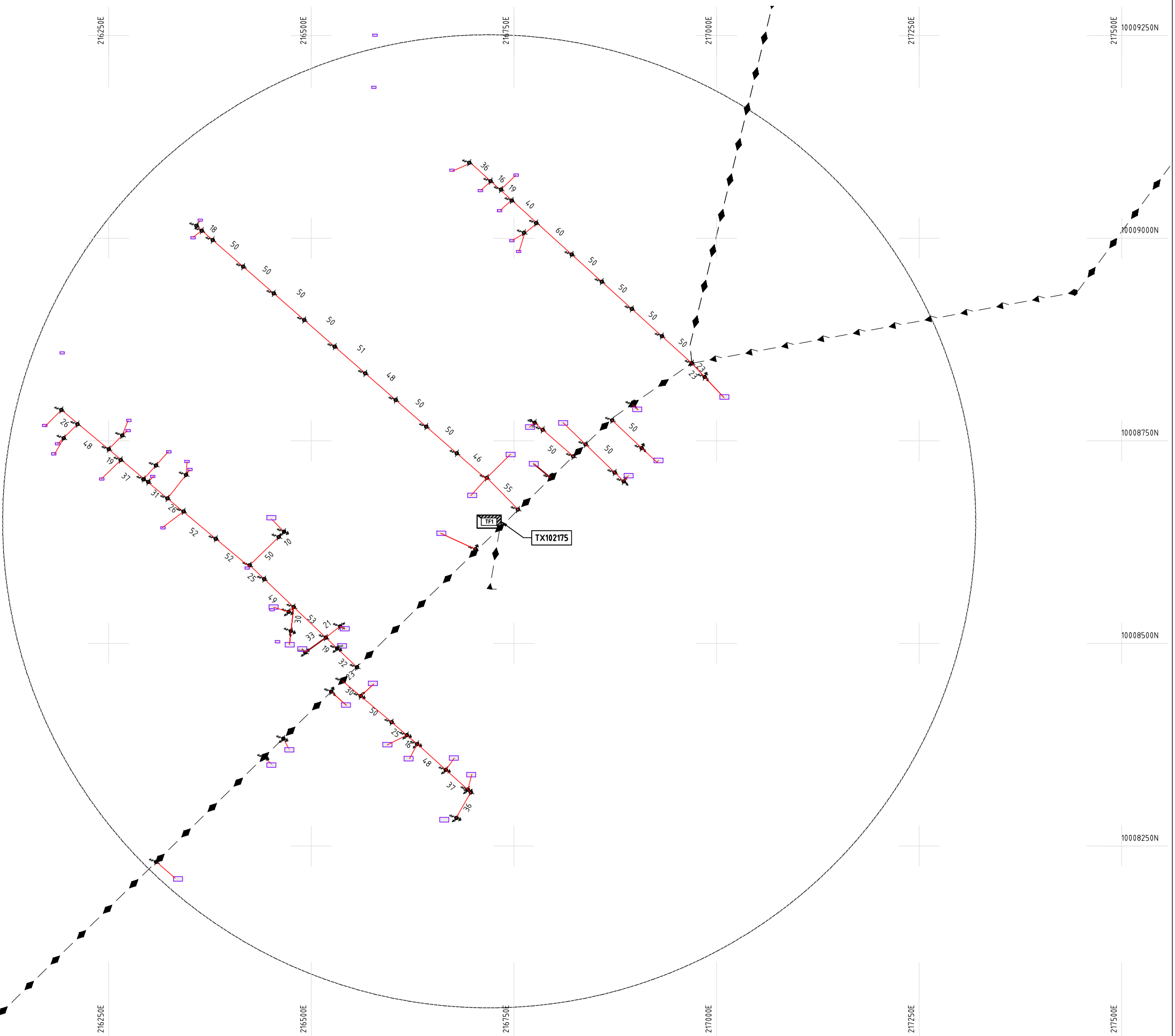
APPROVED BY

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-Prj\2018\Nippon Koei\CAD\Wysandaru\Maximization\NYA-MA-39-102175 Leshau Pondo Community.dwg

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. | PREPARED BY | A.AKBAR |
| NYA-MA-39 | CHECKED BY | S.MAETA |
| | APPROVED BY | Y.TANAKA |
| | DATE | 10th SEP 2018 |





9961500N

209750E

210000E

210250E

210500E

210750E

211000E

9961500N

211250E

9961250N

9961250N

9961000N

9961000N

9960750N

9960750N

9960500N

9960500N

9960250N

9960250N

210000E

210250E

210500E

210750E

211000E

211250E

Cad File No.: D:\Frank-Proj\2018\Nippon Koei\CAD\Wysandarua\Maximization\NYA-MA-41-50244-General Karangi.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: 50244-General Karangi Julius

DRAW. NO.

NYA-MA-41

PREPARED BY

A.AKBAR

CHECKED BY

S.MAETA

APPROVED BY

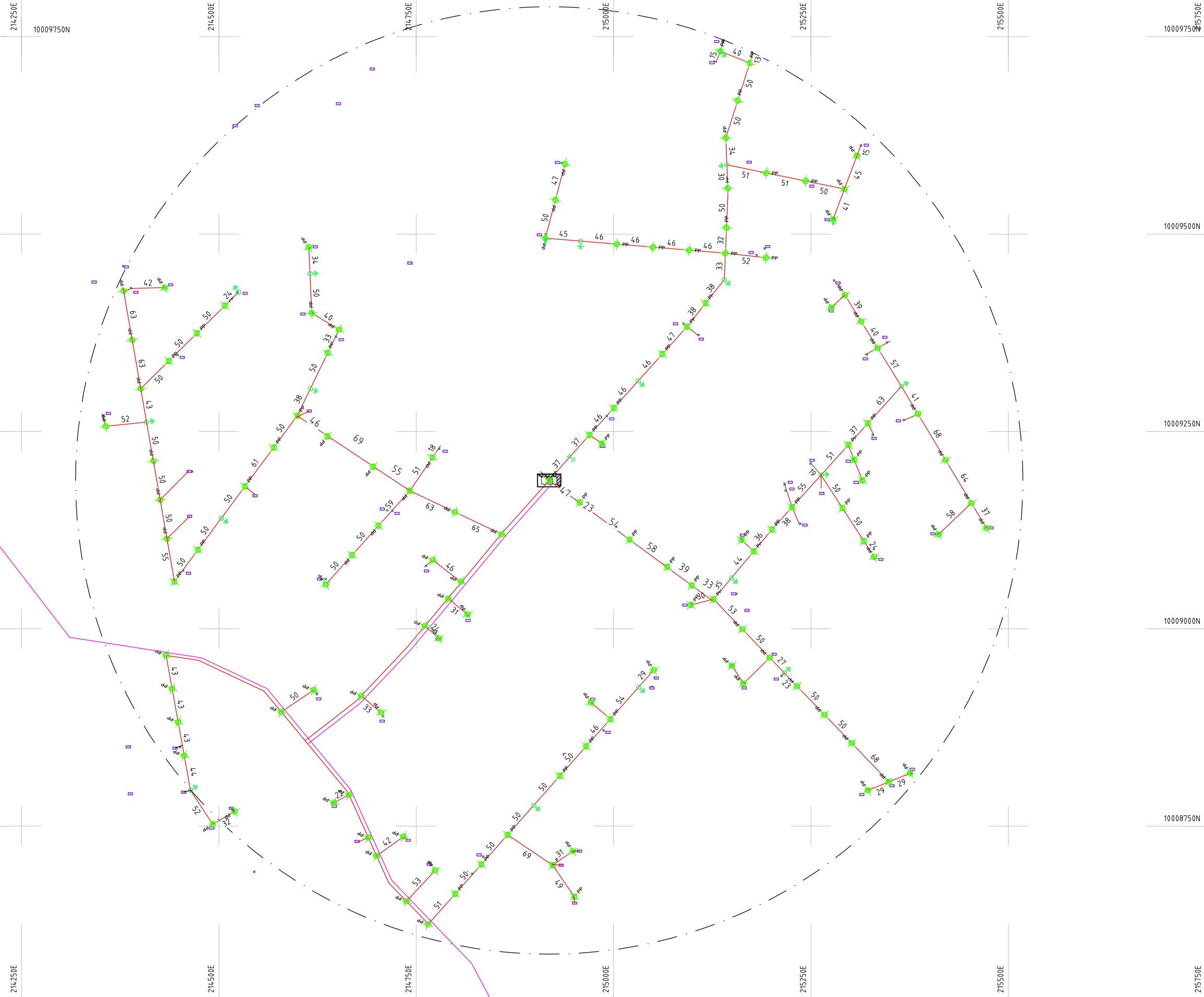
Y.TANAKA

DATE

10th SEP 2018



NIPPON KOEI CO., LTD

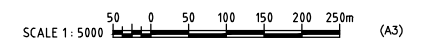


NOTES:

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

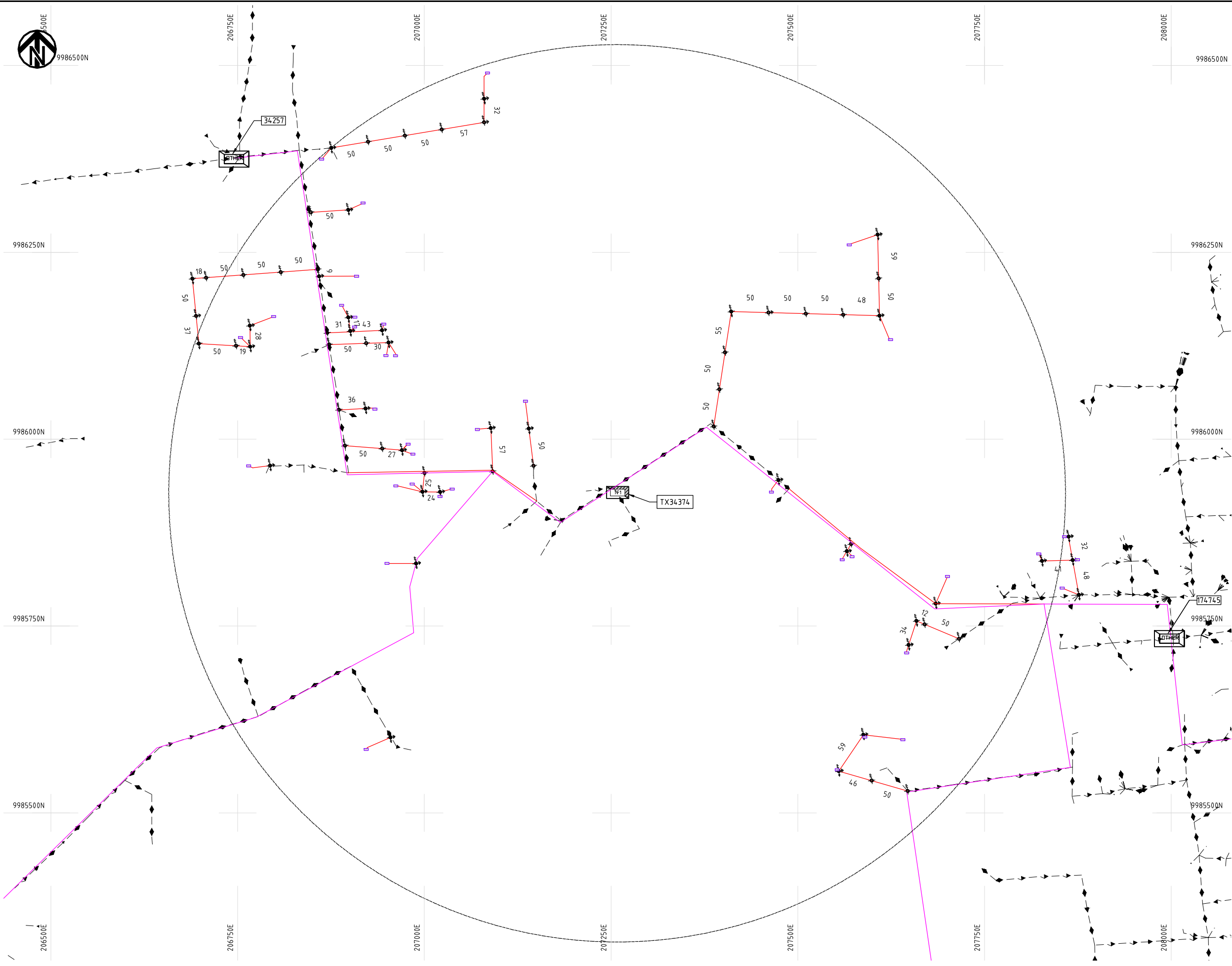
- HOUSEHOLDS/ BUILDINGS
- PROPOSED 11kV
- PROPOSED 33kV
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES 12M
- CONCRETE ELECTRIC POLES 11M
- LV-EARTH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



Csd File No. D:\Frank-Proj\2018\Nippon Koei\CAD\Nyandarua\Maximization\NYA-MA-42_50394_Nyahururu 11kV Ex Nyahuru.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: 50394 Nyahururu 11kV Ex Nyahuru | | NYA-MA-42 | 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\Wysdarua\Maximization\NYA-MA-43-34374_Kasuku.dwg

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: 34374-Kasuku

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



205250E

205500E

205750E

206000E

206250E

206500E

206750E

9983250N

9983250N

9983000N

9983000N

9982750N

9982750N

9982500N

9982500N

9982250N

9982250N

205250E

205500E

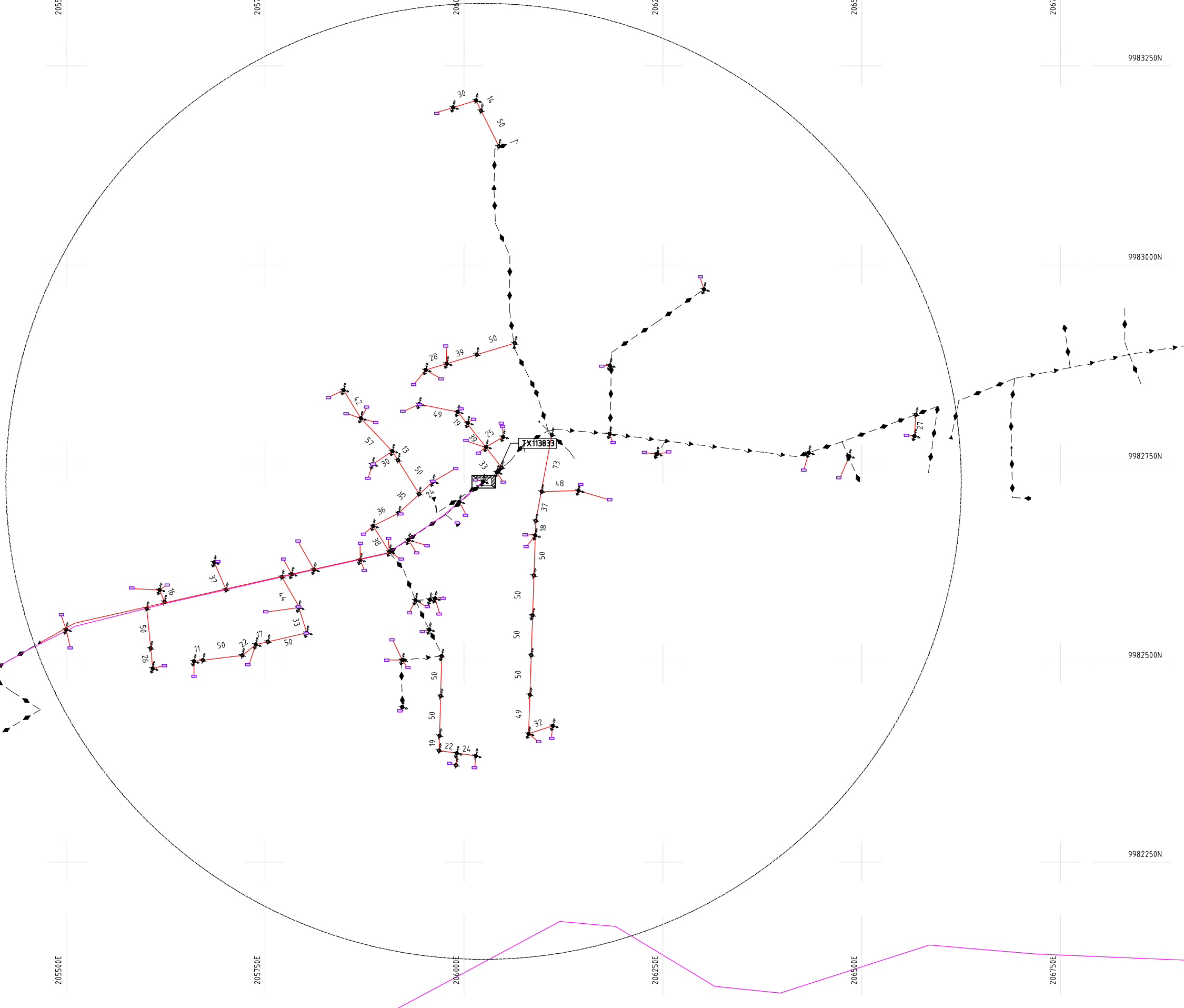
205750E

206000E

206250E

206500E

206750E



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: 113833-Gathudia Market

DRAW. NO.

NYA-MA-44

PREPARED BY

A.AKBAR

CHECKED BY

S.MAETA

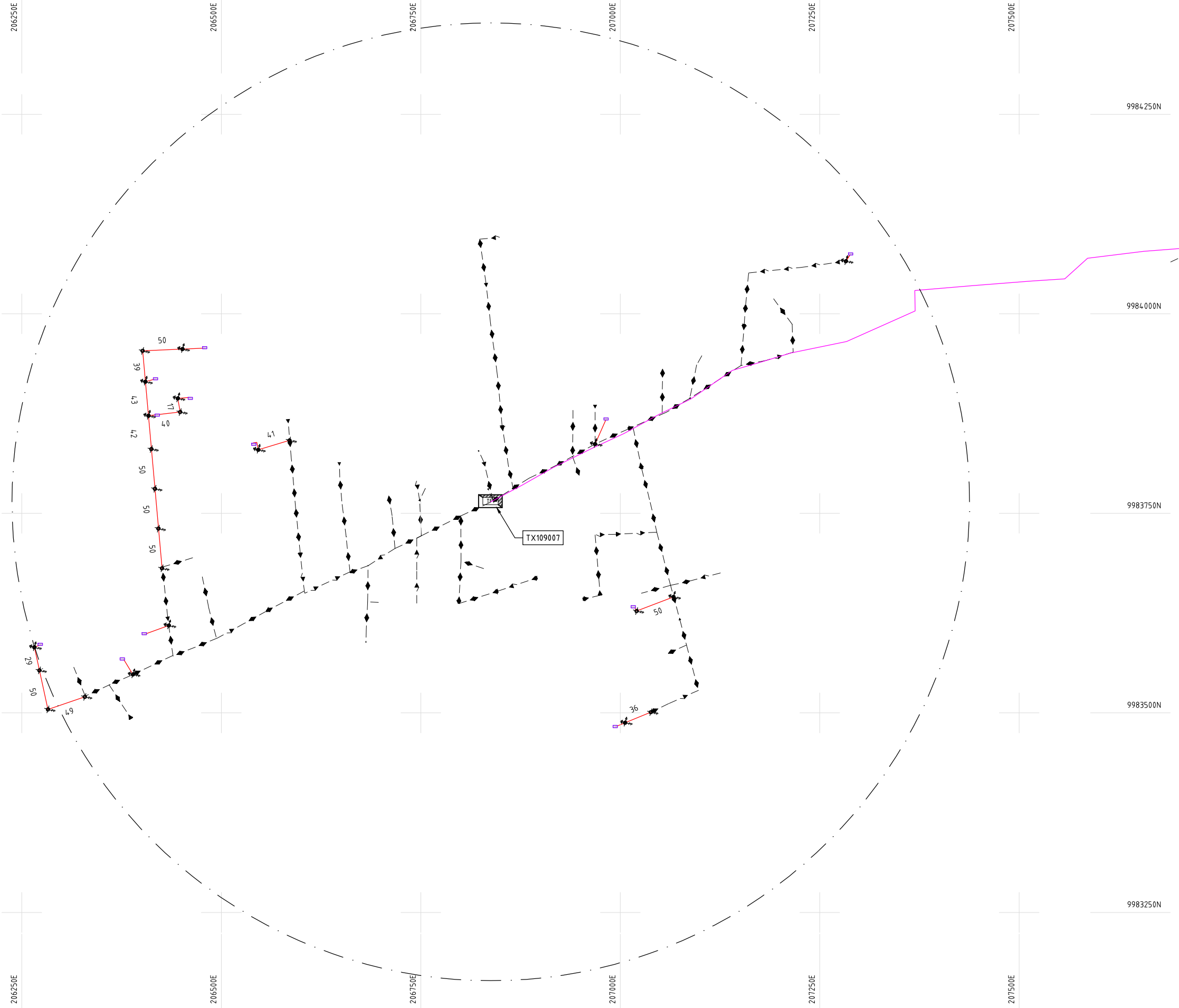
APPROVED BY

Y.TANAKA

DATE

10th SEP 2018



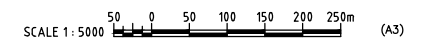


NOTES:

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



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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: | 109007-01\kalau 11kV Ex Nyahururu |

| | |
|-------------|---------------|
| DRAW. NO. | NYA-MA-45 |
| PREPARED BY | A.AKBAR |
| CHECKED BY | S.MAETA |
| APPROVED BY | Y.TANAKA |
| DATE | 10th SEP 2018 |





208750E

209000E

209250E

209500E

209750E

210000E

9984250N

9984250N

9984000N

9984000N

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9983250N

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
-  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: 35394-01kalau 11kV Ex Nyahururu

DRAW. NO.

NYA-MA-46

PREPARED BY

A.AKBAR

CHECKED BY

S.MAETA

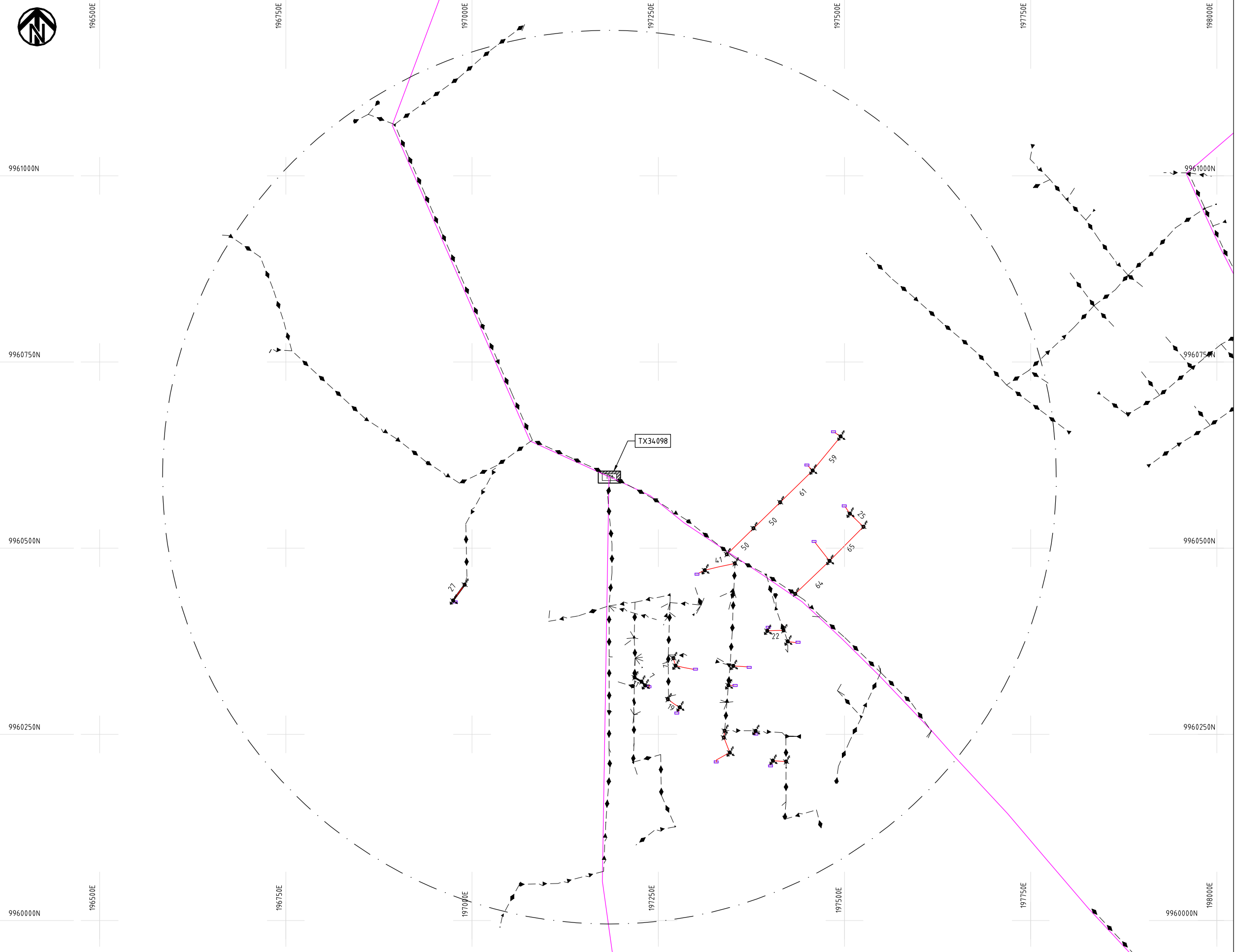
APPROVED BY

Y.TANAKA

DATE

10th SEP 2018

 NIPPON KOEI CO., LTD

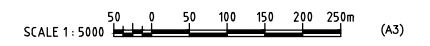


NOTES:

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
- 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: NYANDARUA | | NYA-MA-47 | CHECKED BY | S.MAETA |
| SCHEME: MAXIMIZATION | | APPROVED BY | | Y.TANAKA | |
| PROJECT SITE: 34.098-Kanjuri Sec School | | DATE | | 10th SEP 2018 | |





994.17

217000E

217250E

217750E

218000E

218250E

994.1750N

994.1500N

994.1500N

994.1250N

994.1250N

994.1000N

994.1000N

994.0750N

994.0750N

217000E

217250E

217500E

217750E














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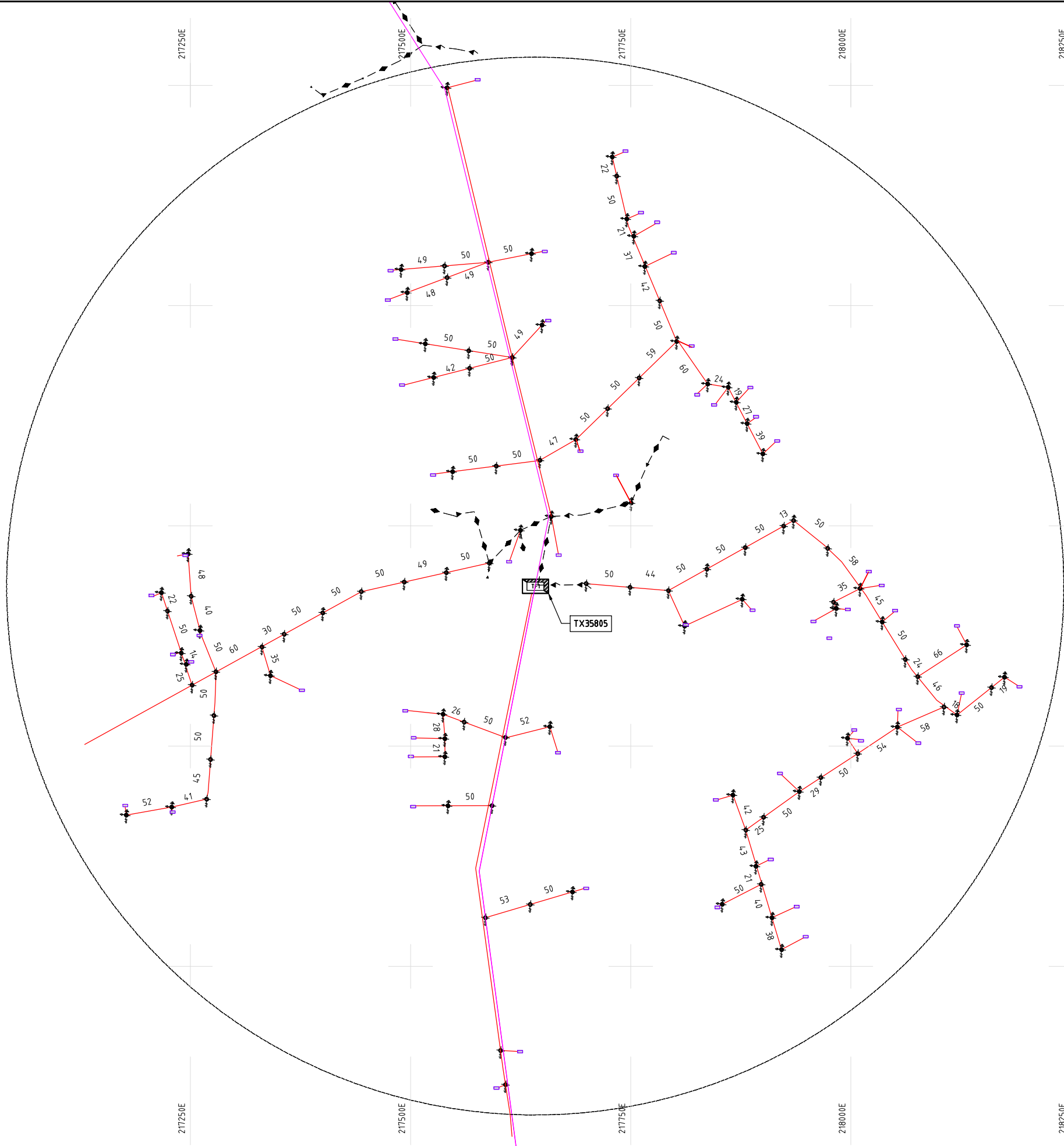
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NOTES:

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.
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:
**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. | PREPARED BY | A.AKBAR |
| | 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-48-35805 Kihumbu School.dwg



9928750N

233000E

233250E

233500E

233750E

234000E

234250E

234500E

9928500N

9928500N

9928250N

9928250N

9928000N

9928000N

9927750N

9927750N

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

228500E

228750E

229000E

229250E

229500E

229750E

9932250N

9932000N

9932000N

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9931500N

9931250N

9931250N

228500E

228750E

229000E

229250E














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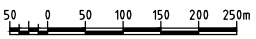
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NOTES:

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.
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: 18527-Engineer TC

DRAW. NO.

NYA-MA-50

PREPARED BY

A.AKBAR

CHECKED BY

S.MAETA

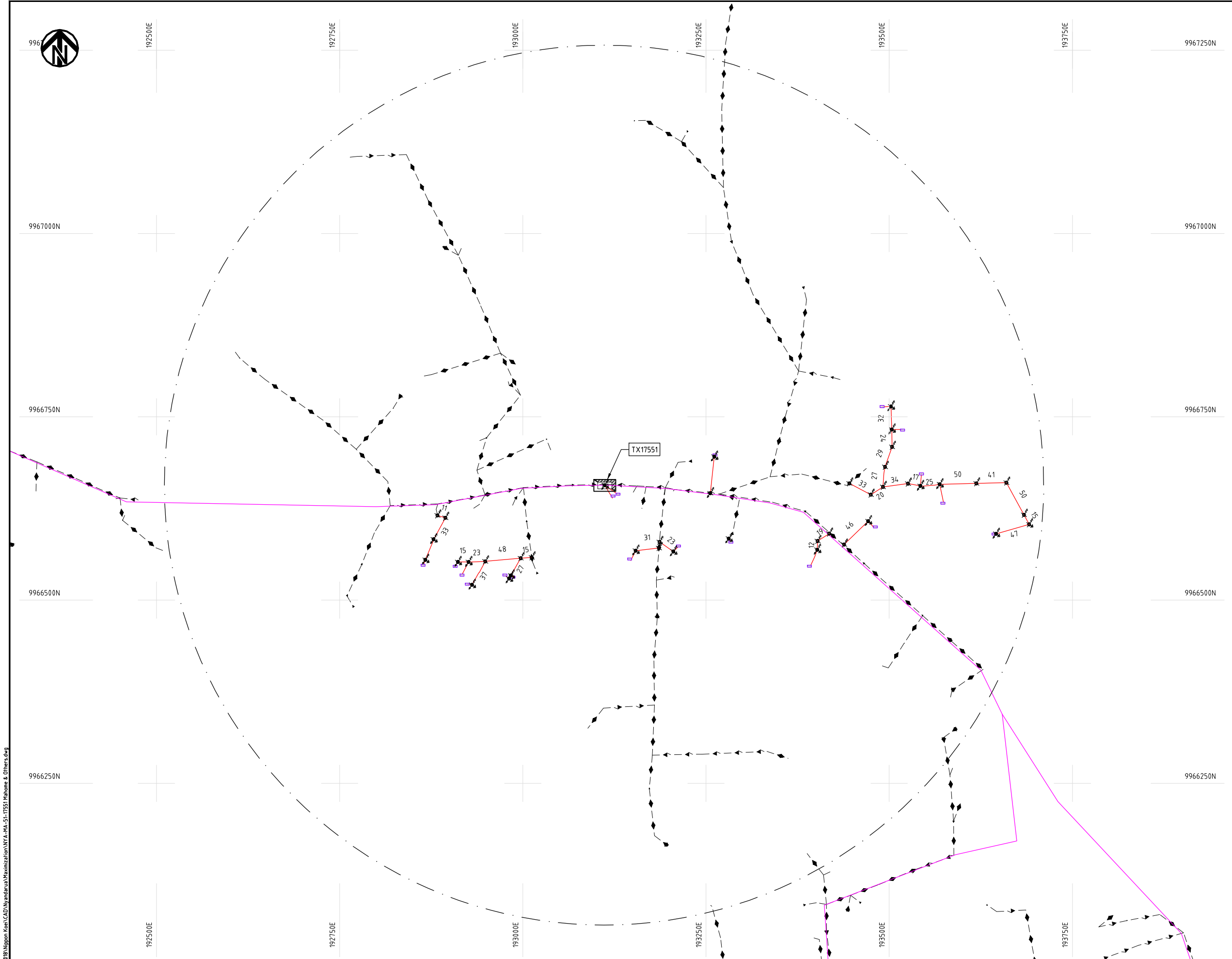
APPROVED BY

Y.TANAKA

DATE

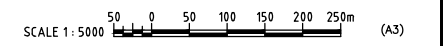
10th SEP 2018

 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.

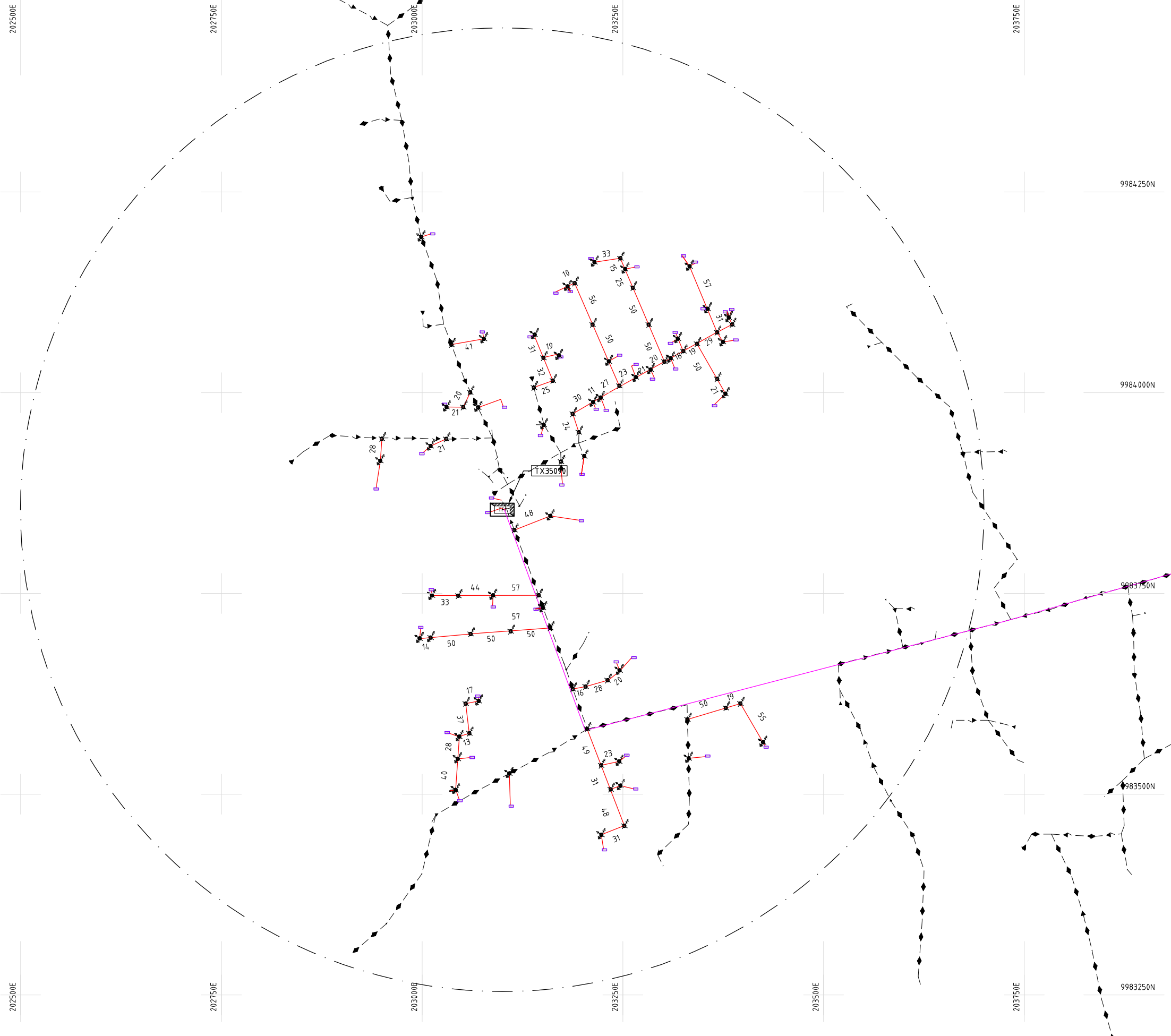
- LEGEND**
- HOUSEHOLDS/ BUILDINGS
 - PROPOSED DISTRIBUTION LINE
 - EXISTING 11kV LINE
 - EXISTING 33kV LINE
 - EXISTING DISTRIBUTION LINE
 - MAXIMISATION TRANSFORMER
 - EXTENSION TRANSFORMER
 - OTHER EXISTING TRANSFORMER
 - PP WOODEN ELECTRIC POLES
 - CP CONCRETE ELECTRIC POLES
 - LV-EARTH
 - PME -PROTECTIVE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



Cad File No. D:\Frank-Proj\2018\Nippon Koei\CAD\Wandarua\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 | | NYA-MA-51 | CHECKED BY | S.MAETA |
| | SCHEME: MAXIMIZATION | | | APPROVED BY | Y.TANAKA |
| | PROJECT SITE: 17551-Mahome & Others | | | DATE | 10th SEP 2018 |



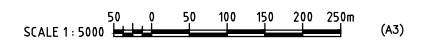


NOTES:

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

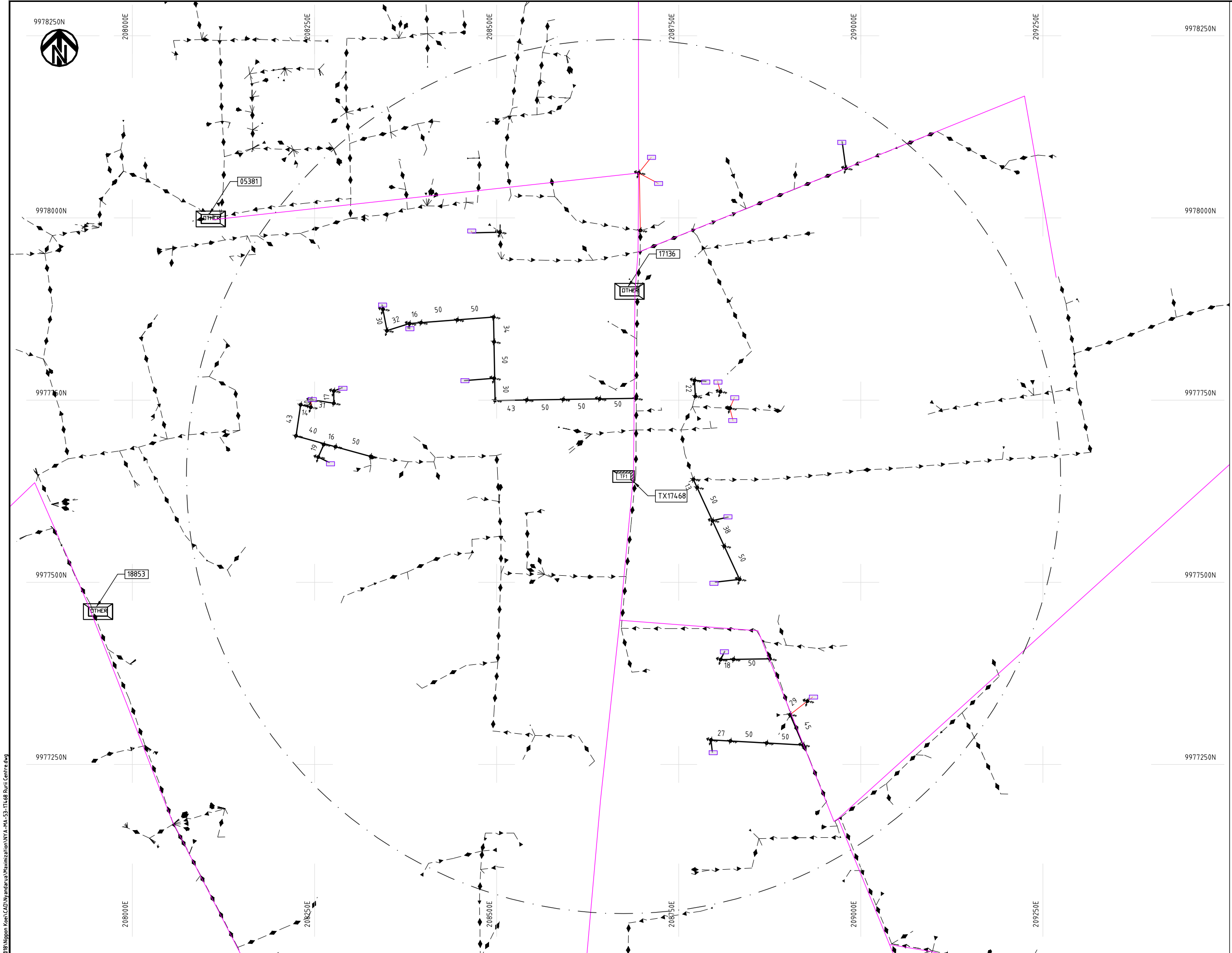
- HOUSEHOLDS/ BUILDINGS
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- OTHER EXISTING TRANSFORMER
- PP WOODEN ELECTRIC POLES
- CP CONCRETE ELECTRIC POLES
- LV-EARTH
- PME -PROTECTIVE MULTIPLE EARTHING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



| | | | | | |
|--|------------------------------------|--|-----------|-------------|---------------|
| 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-52 | CHECKED BY | S.MAETA |
| | SCHEME: MAXIMIZATION | | | APPROVED BY | Y.TANAKA |
| | PROJECT SITE: 35090-Kirimangai Mkt | | | DATE | 10th SEP 2018 |

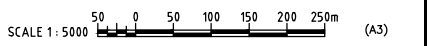


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- NOTES:**
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 2. CONCRETE / WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 4. PME TO BE AFTER EVERY 200m 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\Nyandarua\Maximization\NYA-MA-53-17468 Rurii Centre.dwg

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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-53 | CHECKED BY | S.MAETA |
| | SCHEME: MAXIMIZATION | | | APPROVED BY | Y.TANAKA |
| | PROJECT SITE: 17468-Rurii Centre | | | DATE | 10th SEP 2018 |





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.
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: 34342-KANYAGIA CENTRE

DRAW. NO.

NYA-MA-54

PREPARED BY

A.AKBAR

CHECKED BY

S.MAETA

APPROVED BY

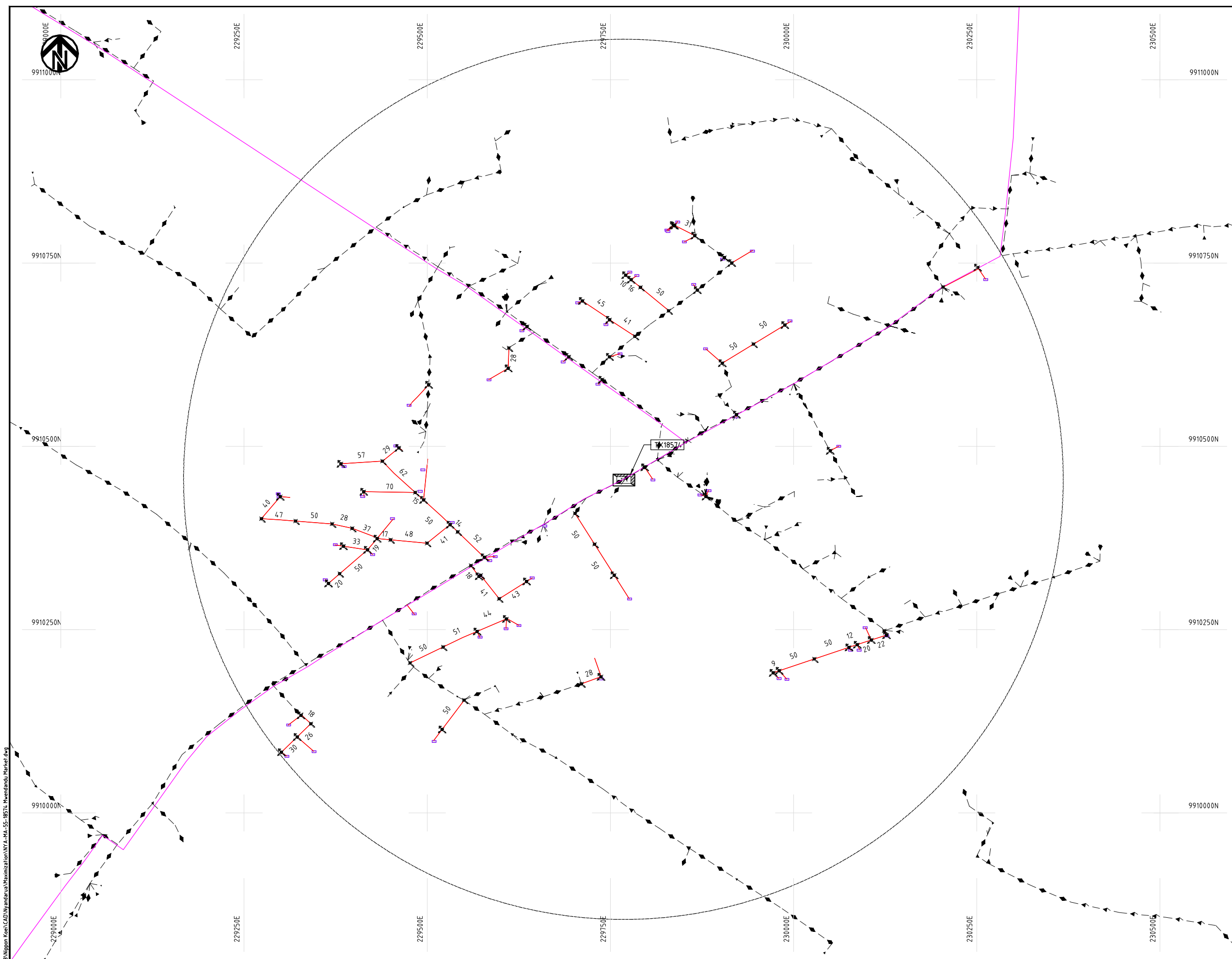
Y.TANAKA

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

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 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

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221250E

221250E

221500E

221500E

221750E

221750E

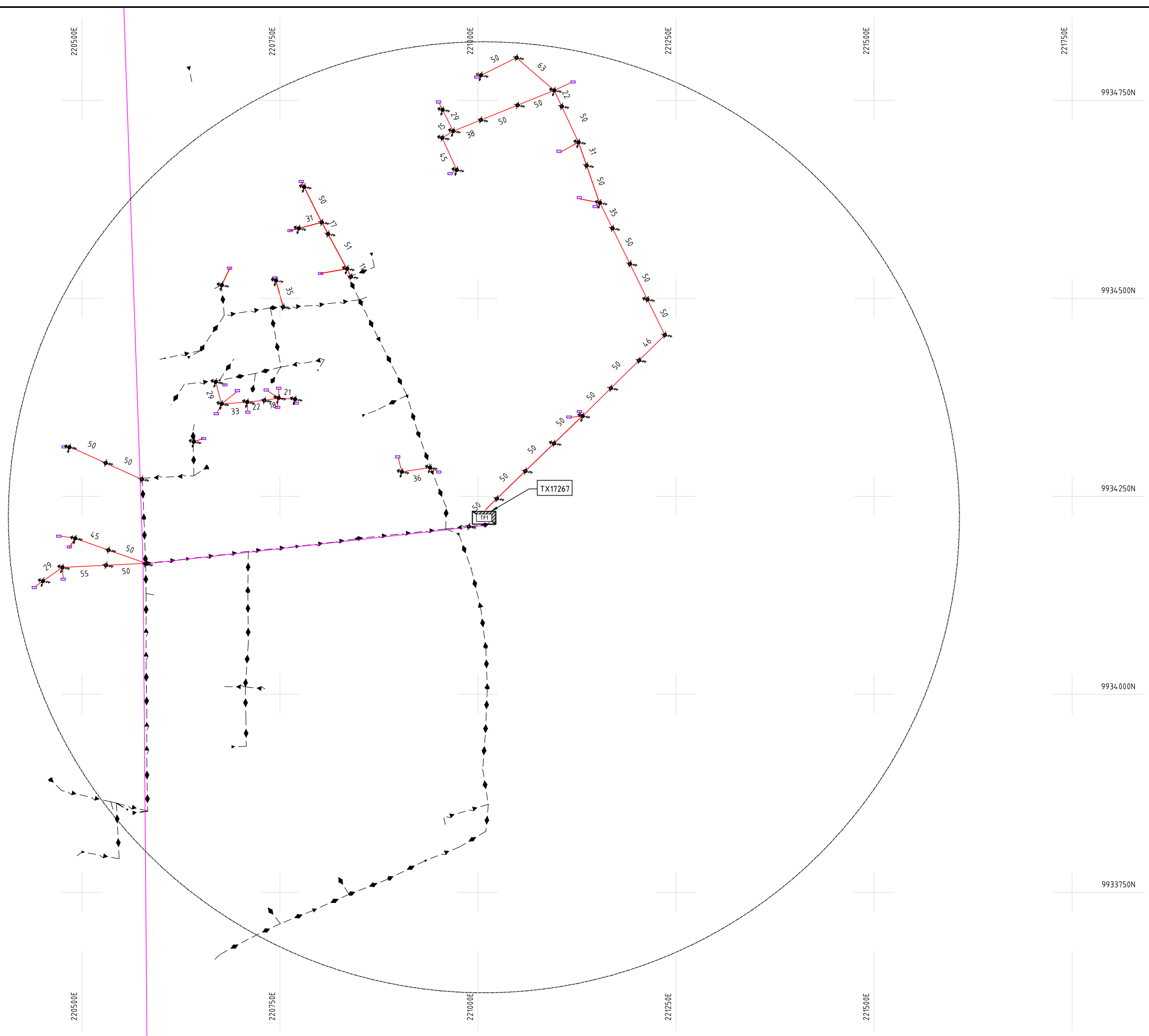
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9934.500N

9934.250N

9934.000N

9933.750N

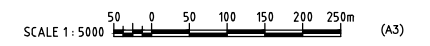


NOTES:

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



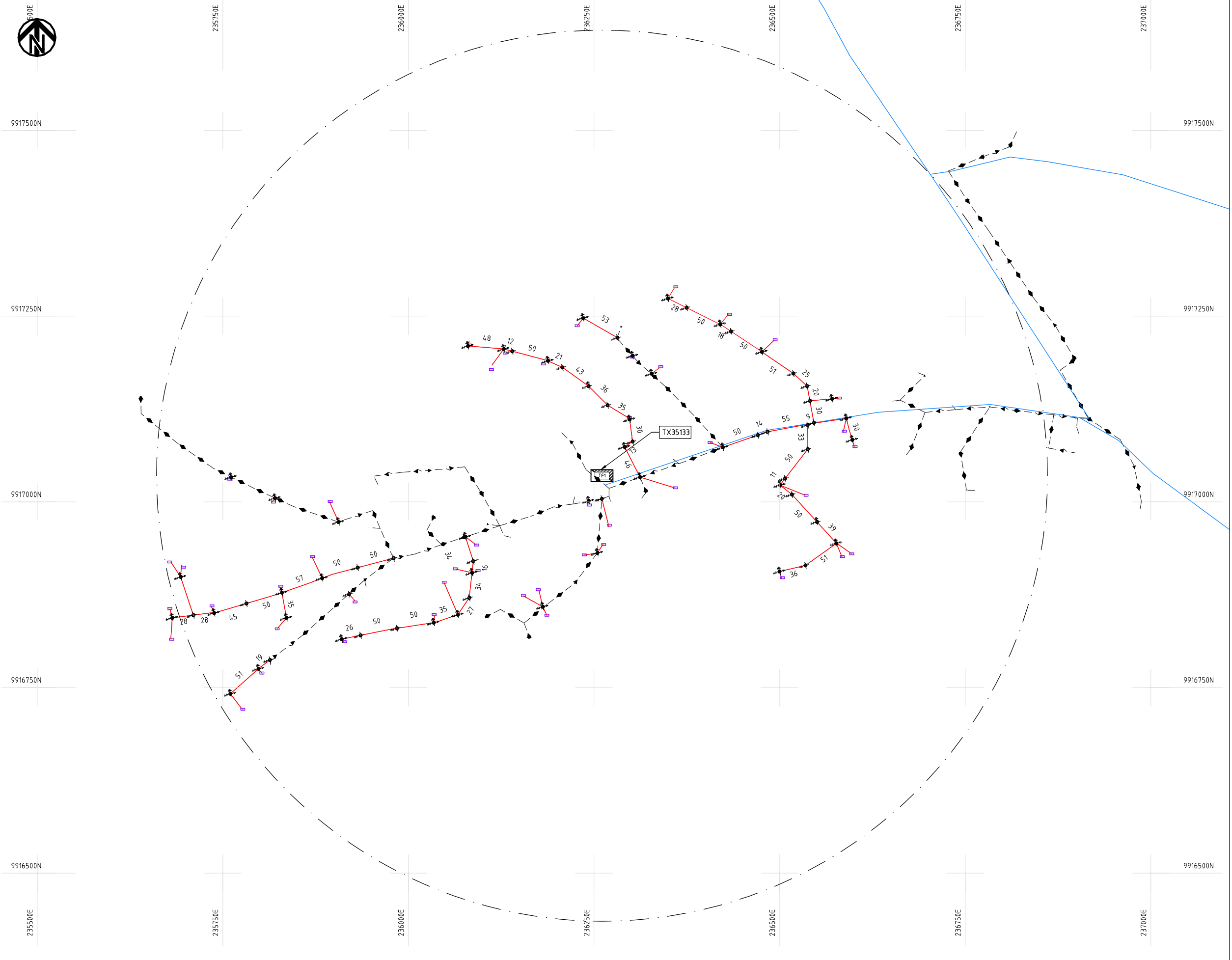
PROJECT:
**THE PREPARATORY SURVEY
 ON THE PROJECT FOR IMPROVEMENT
 OF POWER DISTRIBUTION SYSTEM
 IN THE REPUBLIC OF KENYA**

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

| | | |
|-----------|-------------|---------------|
| DRAW. NO. | PREPARED BY | A.AKBAR |
| | CHECKED BY | S.MAETA |
| NYA-MA-56 | APPROVED BY | Y.TANAKA |
| | DATE | 10th SEP 2018 |



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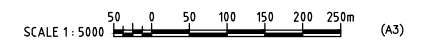


NOTES:

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



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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: 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 |





200250E

200500E

200750E

201000E

201250E

201500E

201750E

9980500N

9980500N

9980250N

9980250N

9980000N

9980000N

9979750N

9979750N

9979500N

9979500N

200250E

200500E

200750E

201000E

201250E

201500E

201750E

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

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

SCALE 1:5000  (A3)



NIPPON KOEI CO., LTD

ニャンダルア郡

Extension and Maximization



NOTES:

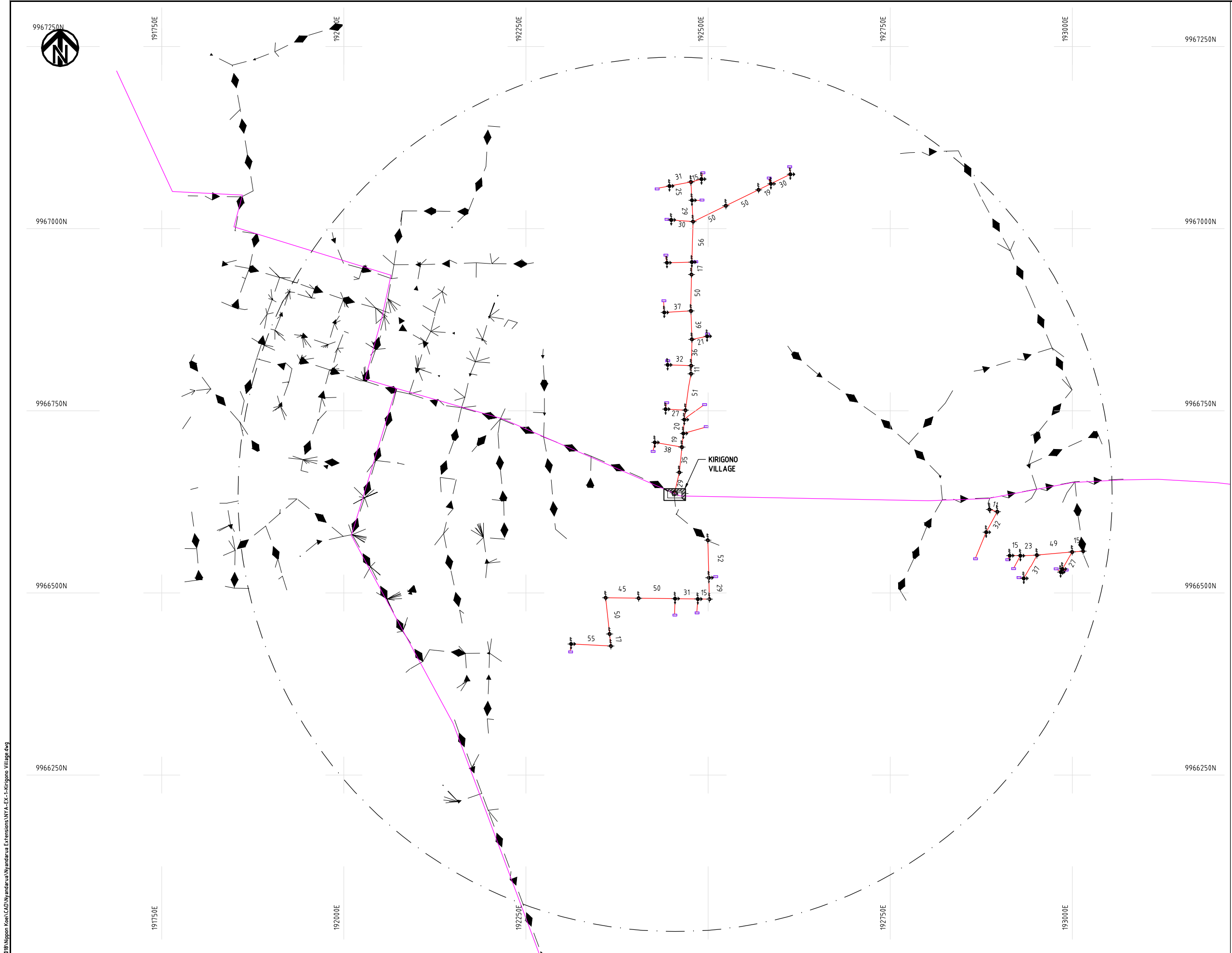
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.

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

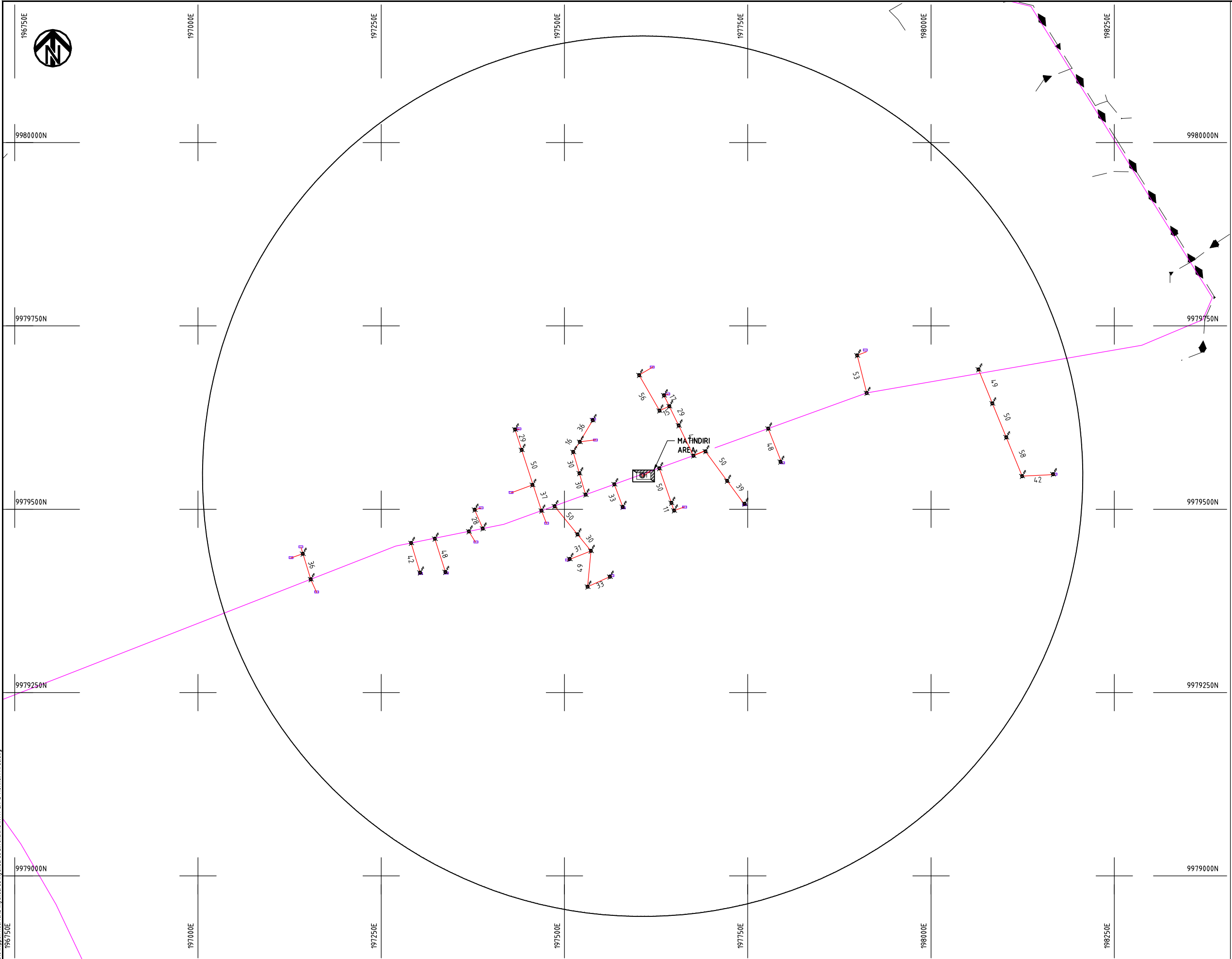


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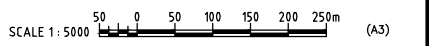
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|--|-------------------|------|---------------|-------------|---------|
| PROJECT: THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA | DRAWING TITLE | | DRAW. NO. | PREPARED BY | A.AKBAR |
| | COUNTY: NYANDARUA | DATE | NYA-EX-1 | CHECKED BY | S.MAETA |
| SCHEME: EXTENSION | APPROVED BY | | Y.TANAKA | | |
| PROJECT SITE: Kirigono 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



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 196750E

| | | | | | |
|--|---|--|-----------|-------------|---------------|
| 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 |





9991750N

218000E

218250E

218500E

218750E

219000E

219250E

219500E

9991750N

9991500N

9991500N

9991250N

9991250N

9991000N

9991000N

9990750N

9990750N

218000E

218250E

218500E

218750E

219000E

219250E

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.

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: Kirimangai Village

| | | |
|-----------|-------------|---------------|
| DRAW. NO. | PREPARED BY | A.AKBAR |
| NYA-EX-3 | CHECKED BY | S.MAETA |
| | APPROVED BY | Y.TANAKA |
| | DATE | 10th SEP 2018 |



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9991750N

218000E

218250E

218500E

218750E

219000E

219250E

219500E

9991500N

9991500N

9991250N

9991250N

9991000N

9991000N

9990750N

9990750N

218000E

218250E

218500E

218750E

219000E

219250E

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.

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





9991750N

218000E

218250E

218500E

218750E

219000E

219250E

219500E

9991750N

9991500N

9991500N

9991250N

9991250N

9991000N

9991000N

9990750N

9990750N

218000E

218250E

218500E

218750E

219000E

219250E

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.

LEGEND

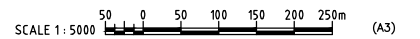
- HOUSEHOLDS/ BUILDINGS
- PROPOSED 11kV
- PROPOSED 33kV
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES 12M
- CONCRETE ELECTRIC POLES 11M
- LV-EARTH
- 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 | |
| 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 |





9991750N

218000E

218250E

218500E

218750E

219000E

219250E

219500E

9991750N

9991500N

9991500N

9991250N

9991250N

9991000N

9991000N

9990750N

9990750N

218000E

218250E

218500E

218750E

219000E

219250E

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.

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: 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



9991750N

218000E

9991500N

9991250N

9991000N

9990750N

218000E

218250E

218500E

218750E

219000E

219250E

219500E

9991750N

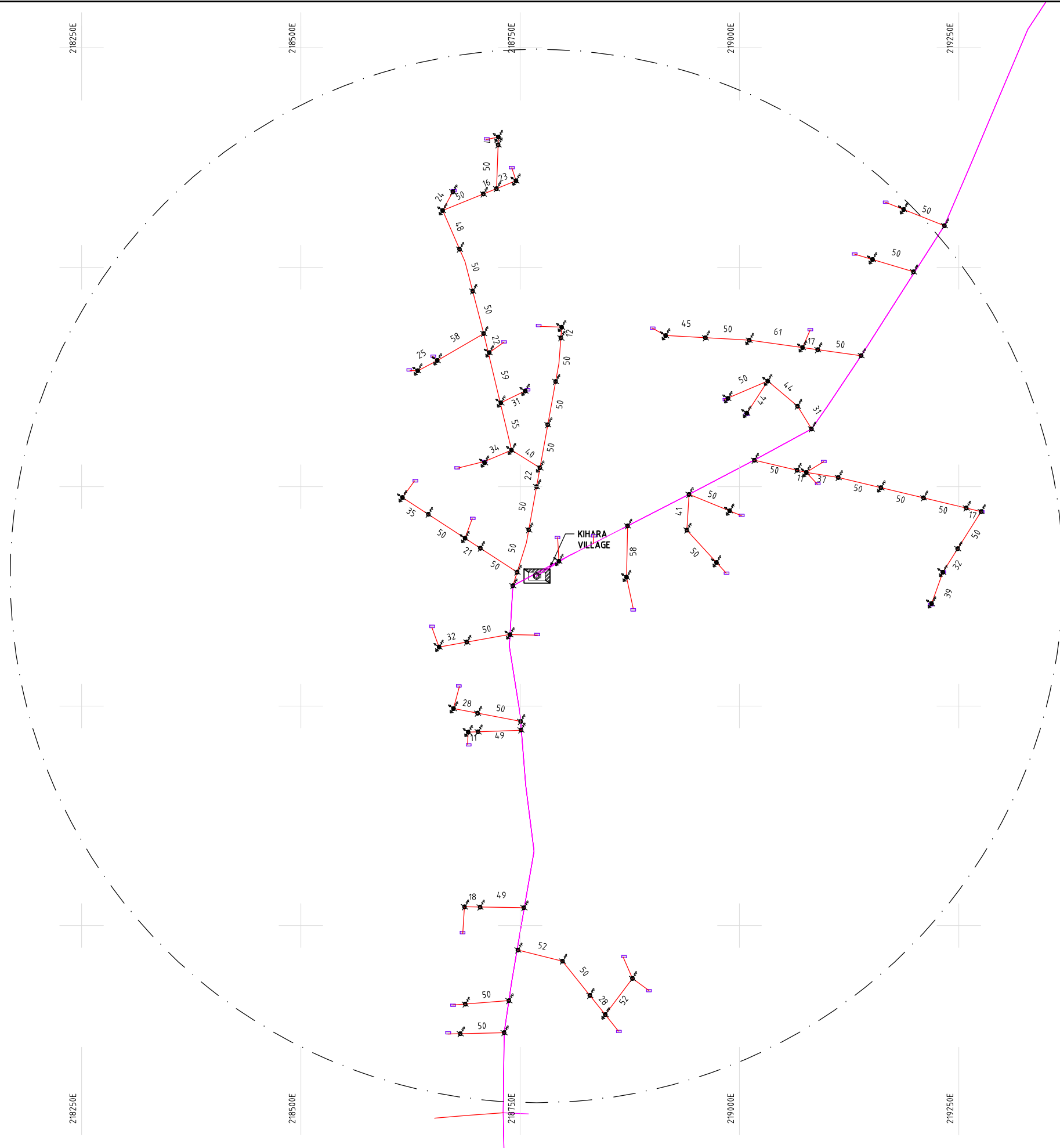
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9991250N

9991000N

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.

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



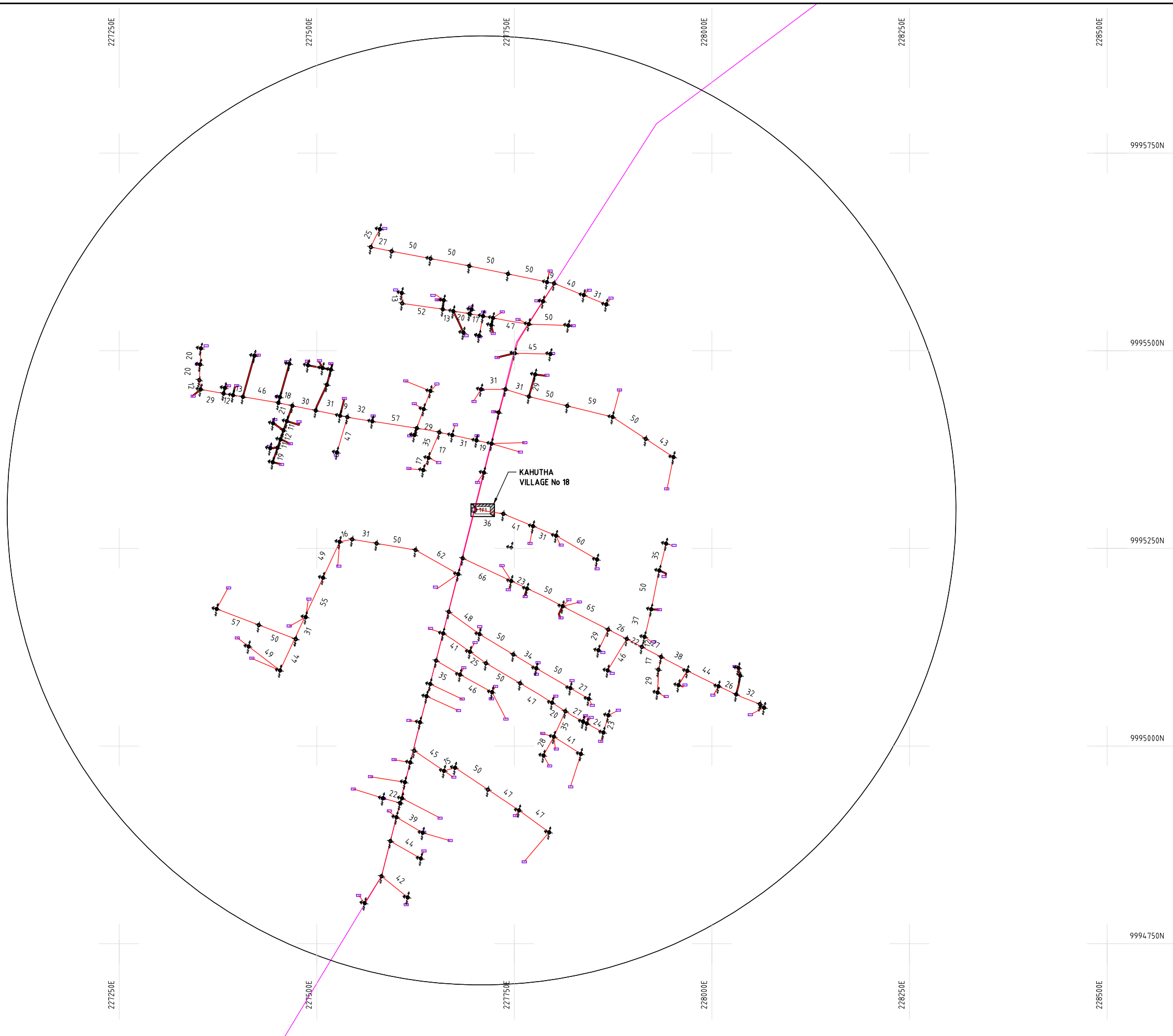
PROJECT:
**THE PREPARATORY SURVEY
 ON THE PROJECT FOR IMPROVEMENT
 OF POWER DISTRIBUTION SYSTEM
 IN THE REPUBLIC OF KENYA**

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

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



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 2018/10/28 14:10:00



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



| | | | | | |
|--|-------------------|-------------|-----------|---------------|---------|
| 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-8 | CHECKED BY | S.MAETA |
| SCHEME: EXTENSION | | APPROVED BY | | Y.TANAKA | |
| PROJECT SITE: Kahutha Village No 18 | | DATE | | 10th SEP 2018 | |





199500E

199750E

200000E

200250E

200500E

200750E

9985000N

9985000N

9984750N

9984750N

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9984250N

9984000N

9984000N

199500E

199750E

200000E

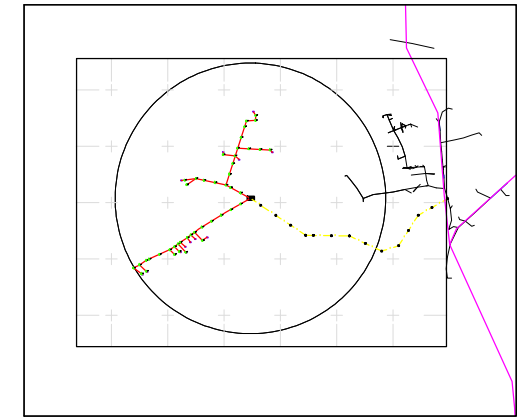
200250E

200500E

200750E

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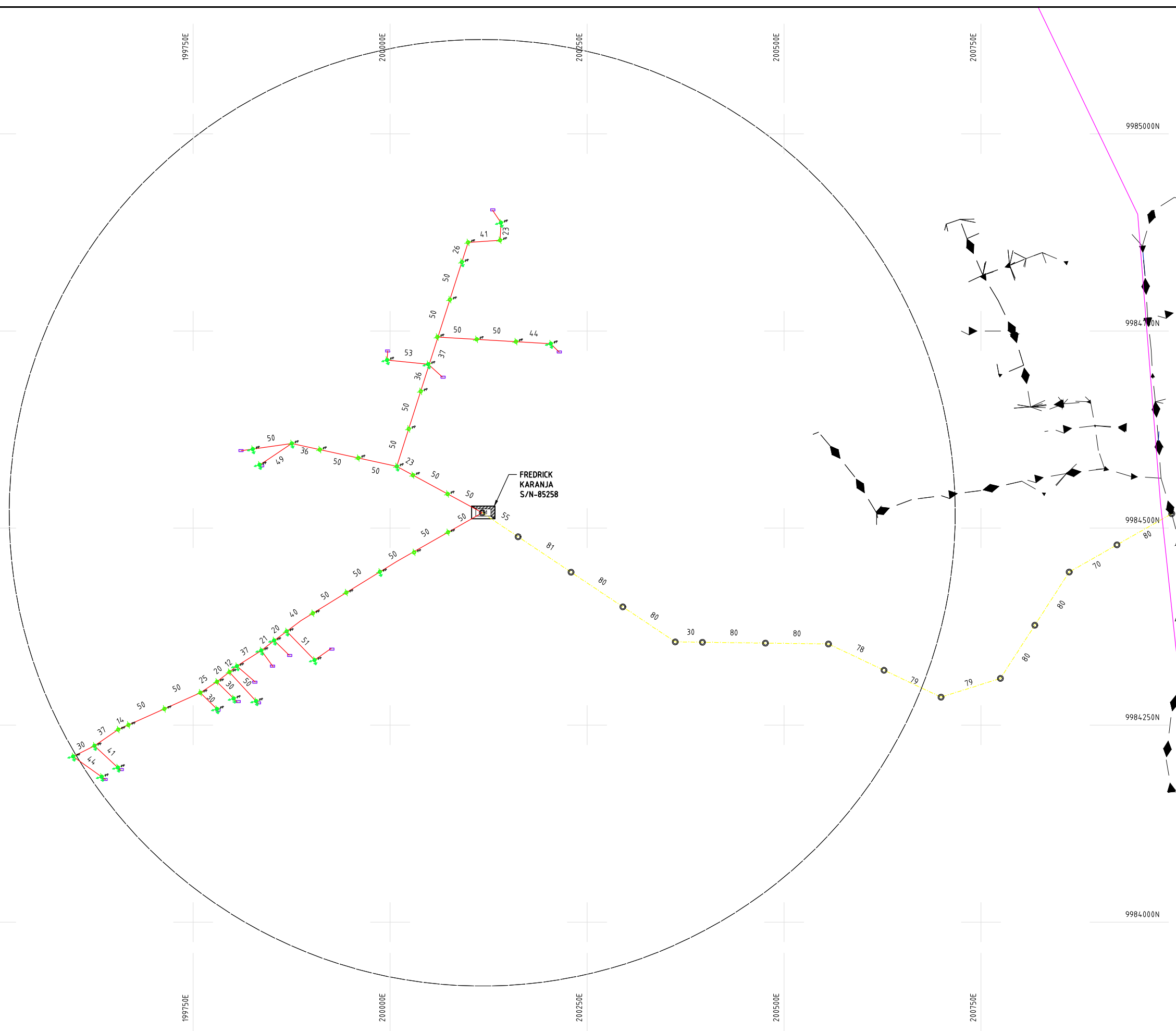
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.



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



FREDRICK KARANJA S/N-85258



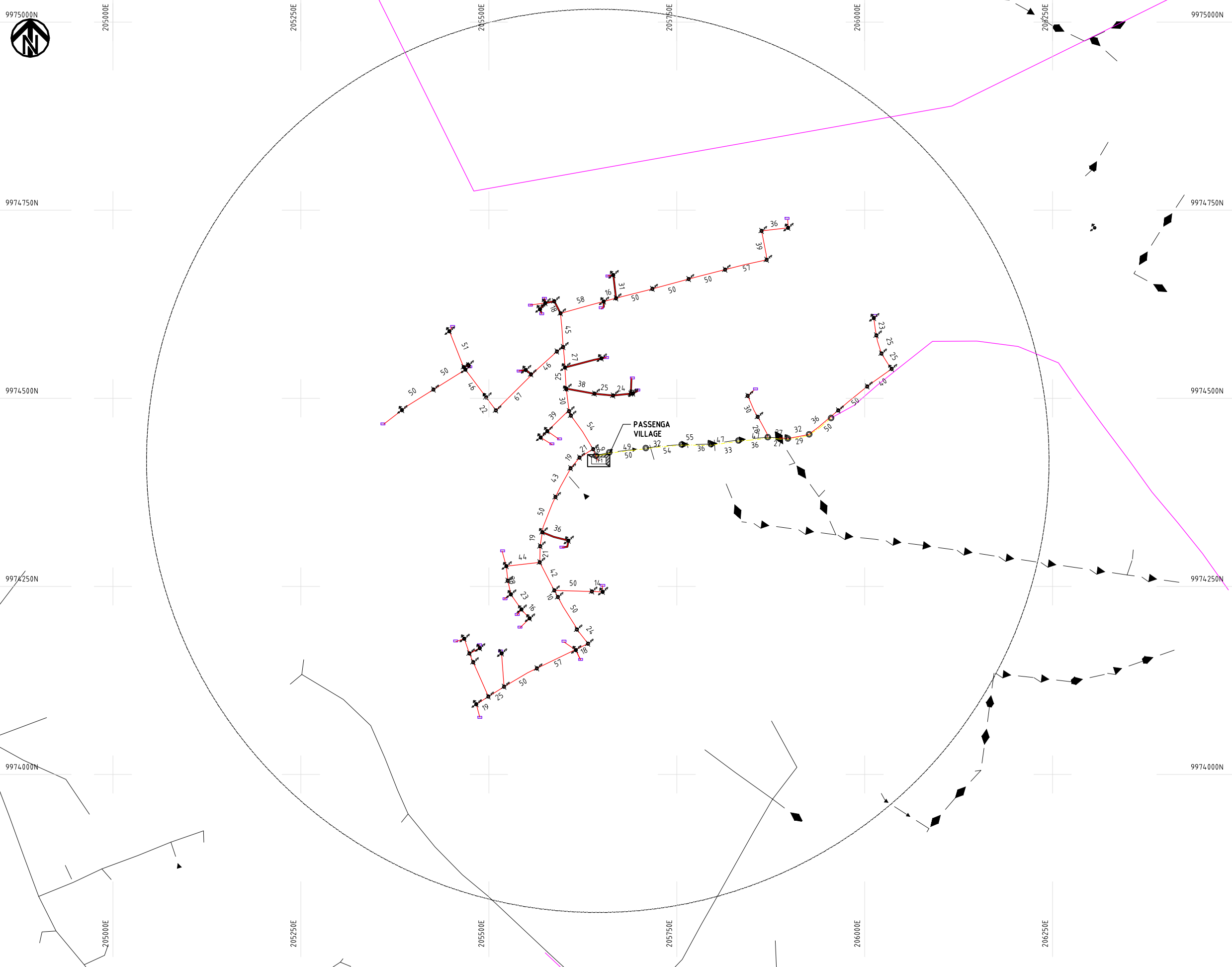
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PROJECT:
**THE PREPARATORY SURVEY
 ON THE PROJECT FOR IMPROVEMENT
 OF POWER DISTRIBUTION SYSTEM
 IN THE REPUBLIC OF KENYA**

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

| | | |
|-----------|-------------|---------------|
| DRAW. NO. | PREPARED BY | A.AKBAR |
| NYA-EX-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.

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: NYANDARUA SCHEME: EXTENSION PROJECT SITE: Passenga Village | | NYA-EX-10 | CHECKED BY | S.MAETA |
| | | | | APPROVED BY | Y.TANAKA |
| | | | | DATE | 10th SEP 2018 |





195500E

195750E

196000E

196250E

196500E

196750E

197000E

9965500N

9965500N

9965250N

9965250N

9965000N

9965000N

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9964500N

195500E

195750E

196000E

196250E

196500E

196750E

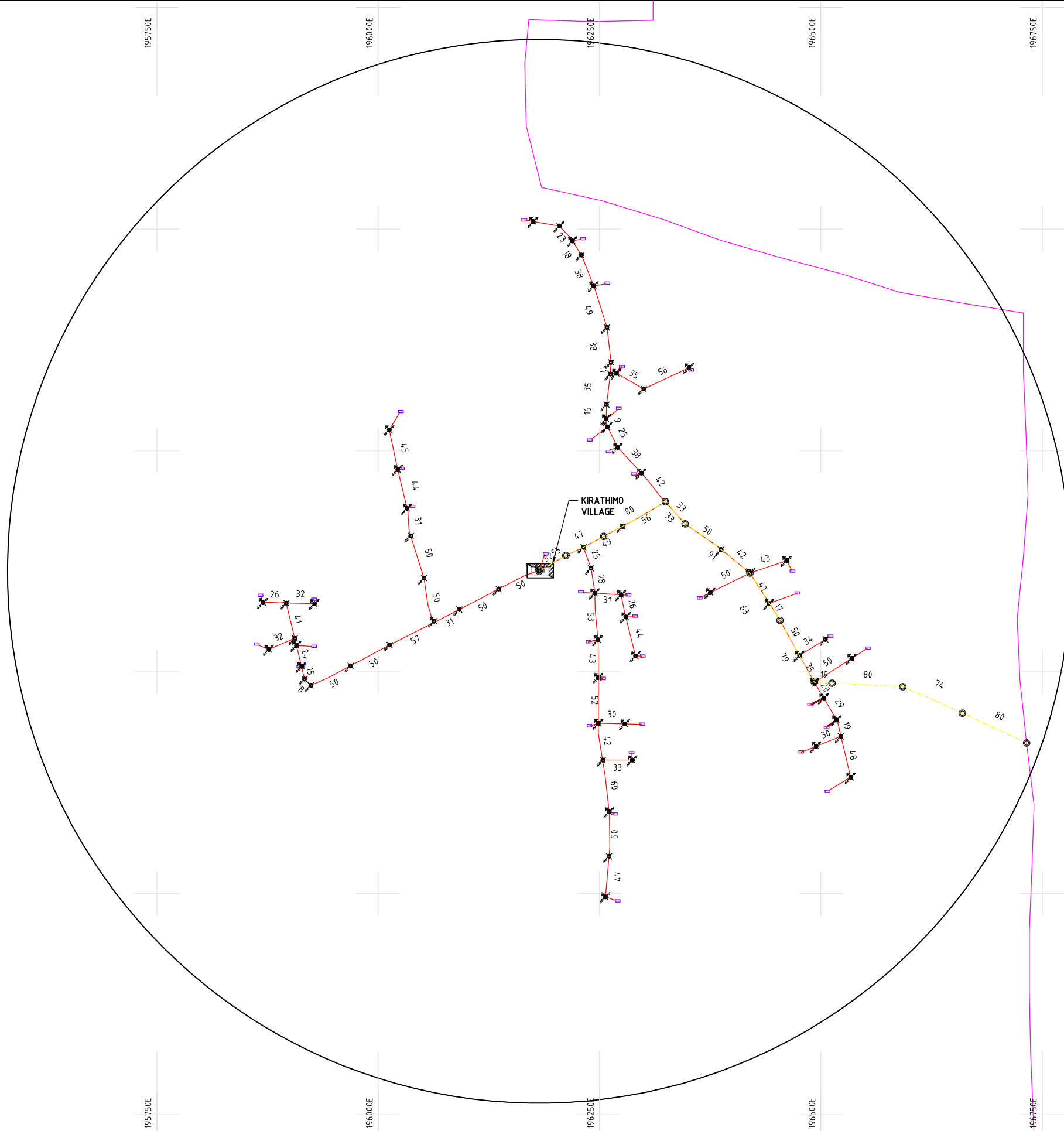
197000E

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



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. | PREPARED BY | A.AKBAR |
| NYA-EX-11 | CHECKED BY | S.MAETA |
| | APPROVED BY | Y.TANAKA |
| | DATE | 10th SEP 2018 |



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 Oct 28, 2018 - 4:21pm



198250E

198500E

198750E

199000E

199250E

199500E

9968750N

9968750N

9968500N

9968500N

9968250N

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198250E

198500E

198750E

199000E

199250E

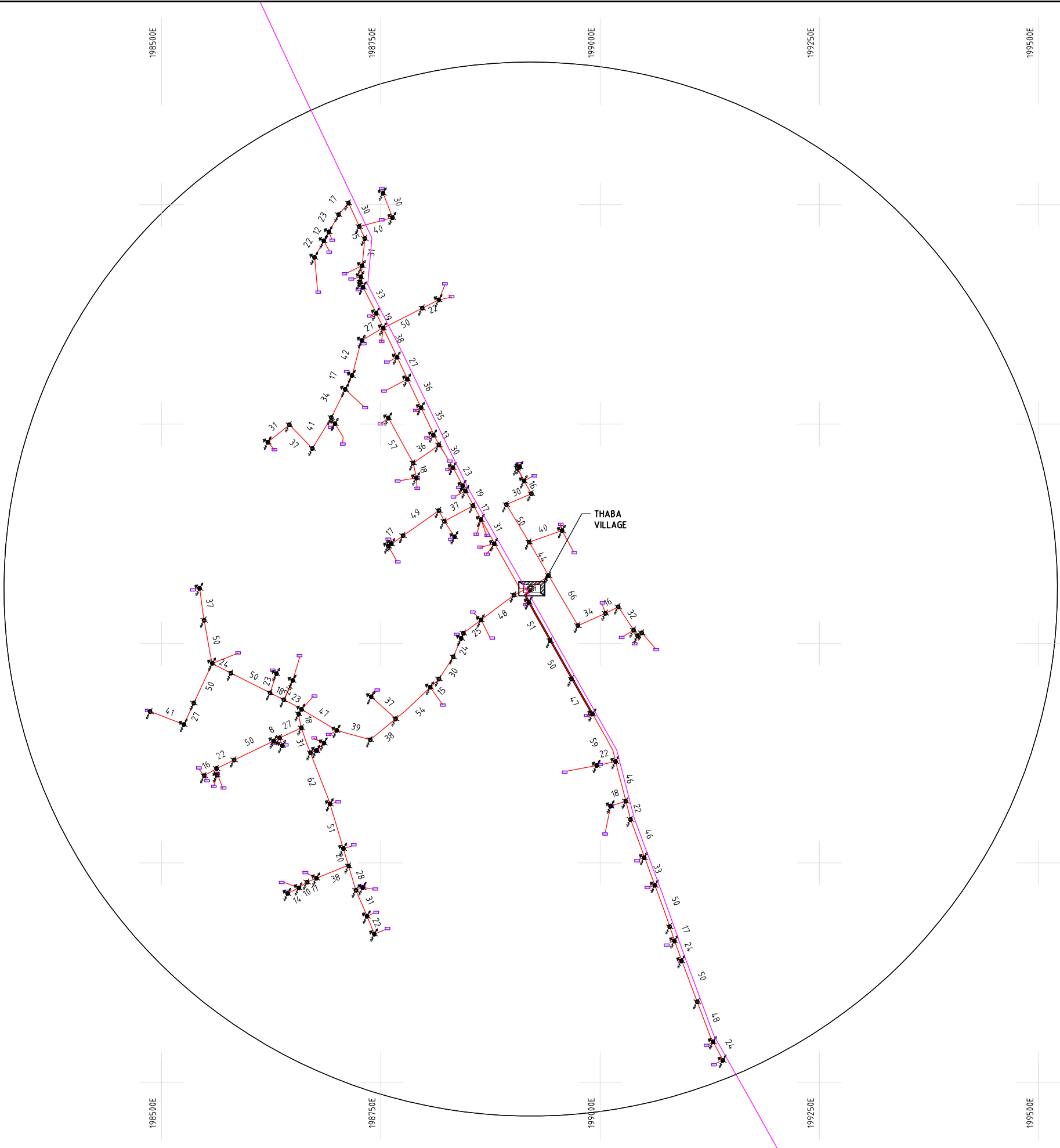
199500E

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.

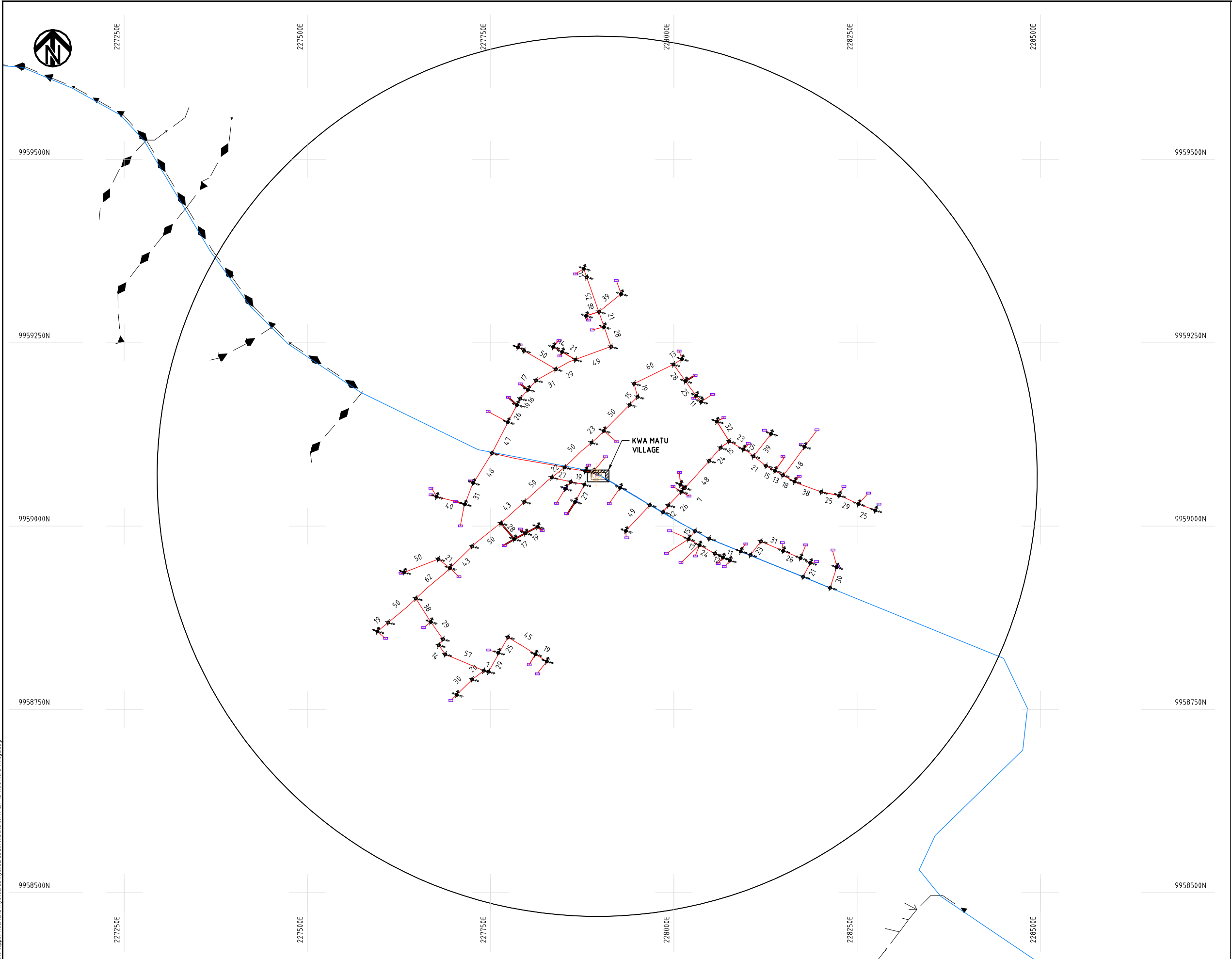
LEGEND

- 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



| | | | | | |
|--|---|--|-----------|-------------|---------------|
| 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: Thaba Village | | NYA-EX-12 | CHECKED BY | S.MAETA |
| | | | | APPROVED BY | Y.TANAKA |
| | | | | DATE | 10th SEP 2018 |

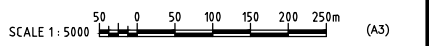




- NOTES:**
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.

LEGEND

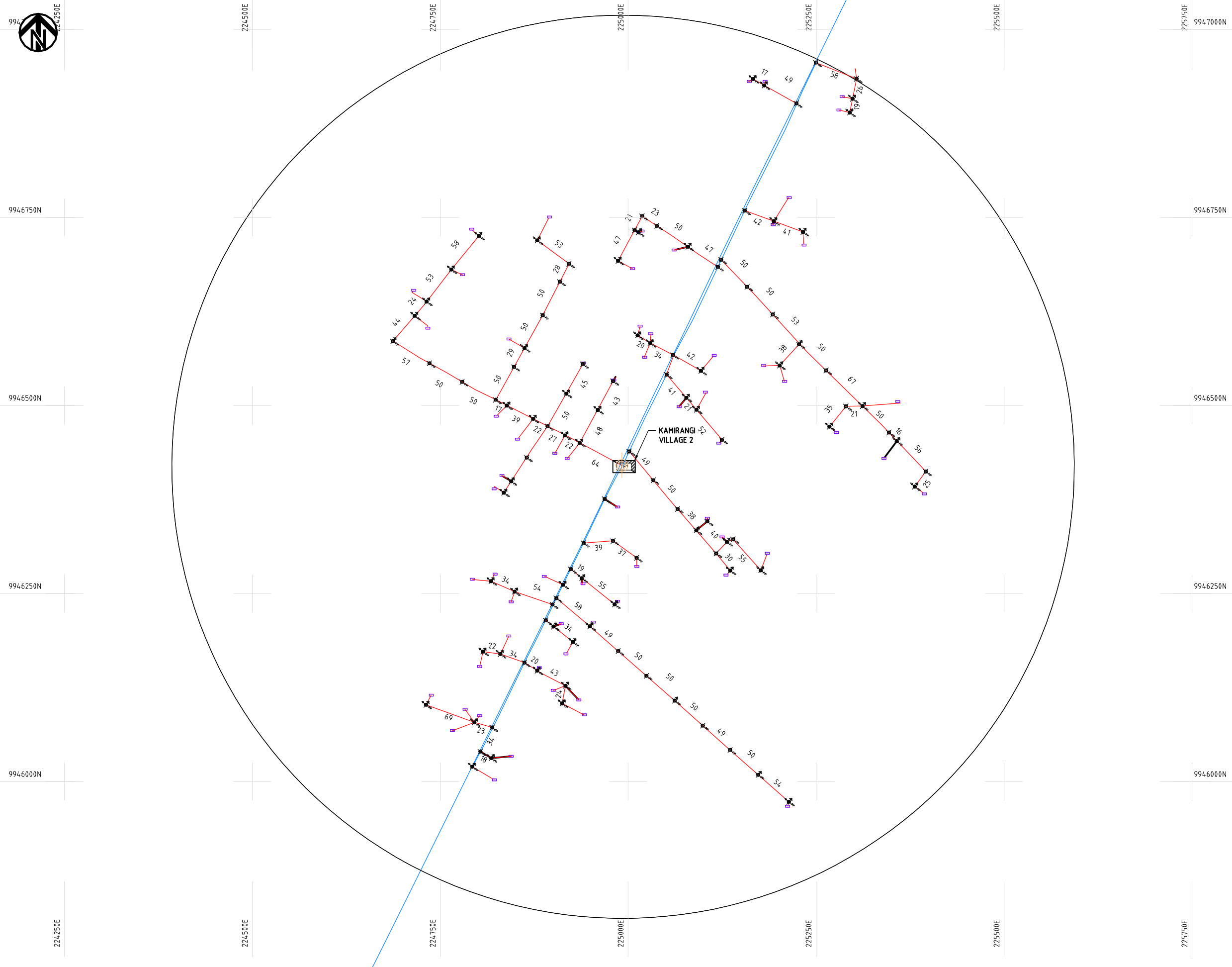
- HOUSEHOLDS/ BUILDINGS
- PROPOSED 11kV
- PROPOSED 33kV
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES 12M
- CONCRETE ELECTRIC POLES 11M
- LV-EARTH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



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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-13 | CHECKED BY | S.MAETA |
| | SCHEME: EXTENSION | | | APPROVED BY | Y.TANAKA |
| | PROJECT SITE: Kwa Matu 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

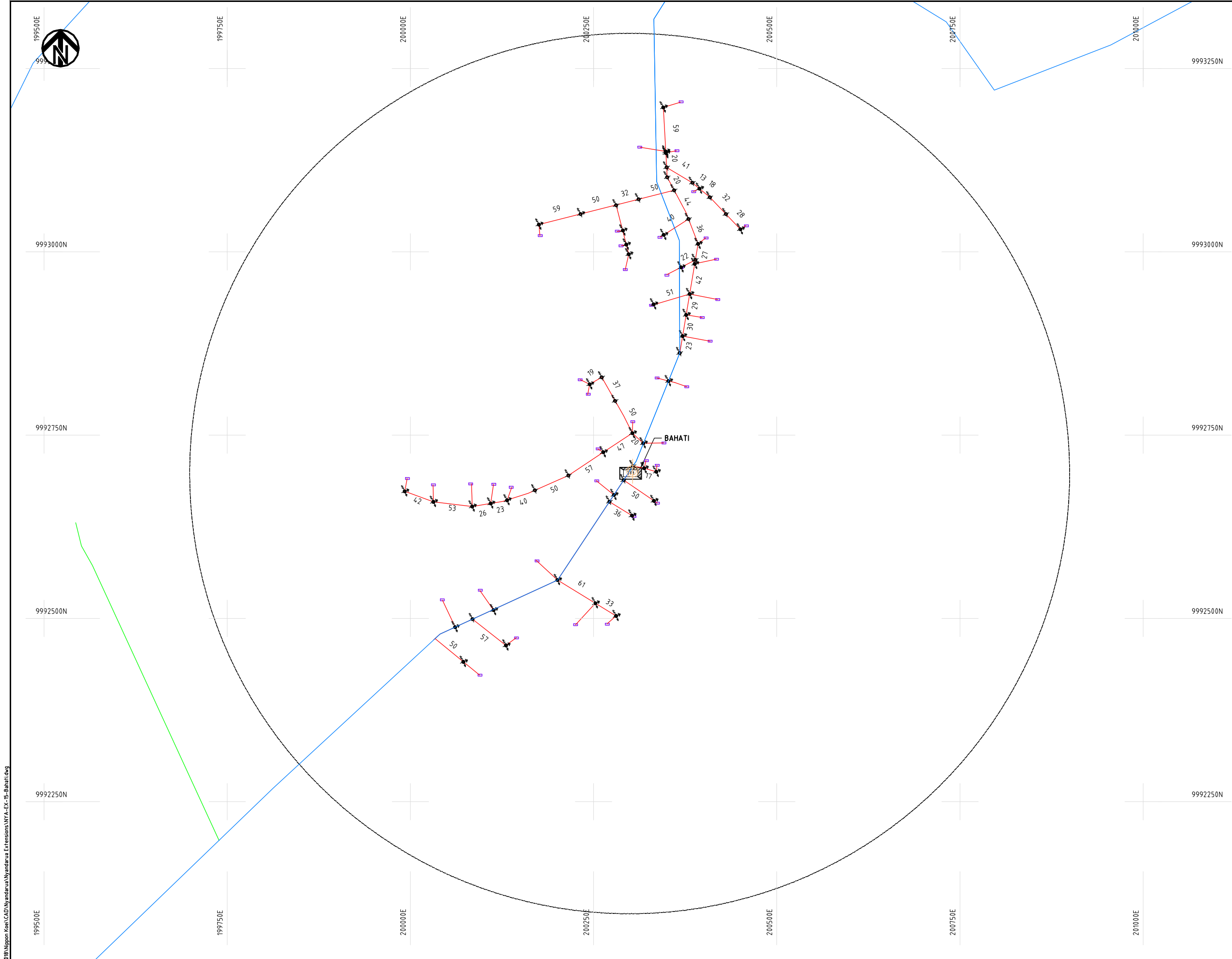
- HOUSEHOLDS/ BUILDINGS
- PROPOSED 11kV
- PROPOSED 33kV
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES 12M
- CONCRETE ELECTRIC POLES 11M
- LV-EARTH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



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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-14 | | CHECKED BY | S.MAETA |
| | SCHEME: EXTENSION | | | APPROVED BY | Y.TANAKA |
| | PROJECT SITE: Kimirangi Village 2 | | | 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\Nyandarua\Nyandarua Extensions\NYA-EX-15-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: NYANDARUA SCHEME: EXTENSION PROJECT SITE: Bahati | | NYA-EX-15 | CHECKED BY | S.MAETA |
| | | | | APPROVED BY | Y.TANAKA |
| | | | | DATE | 10th SEP 2018 |





9991750N

218250E

218500E

218750E

219000E

219250E

219500E

9991750N

9991500N

9991500N

9991250N

9991250N

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218000E

218250E

218500E

218750E

219000E

219250E

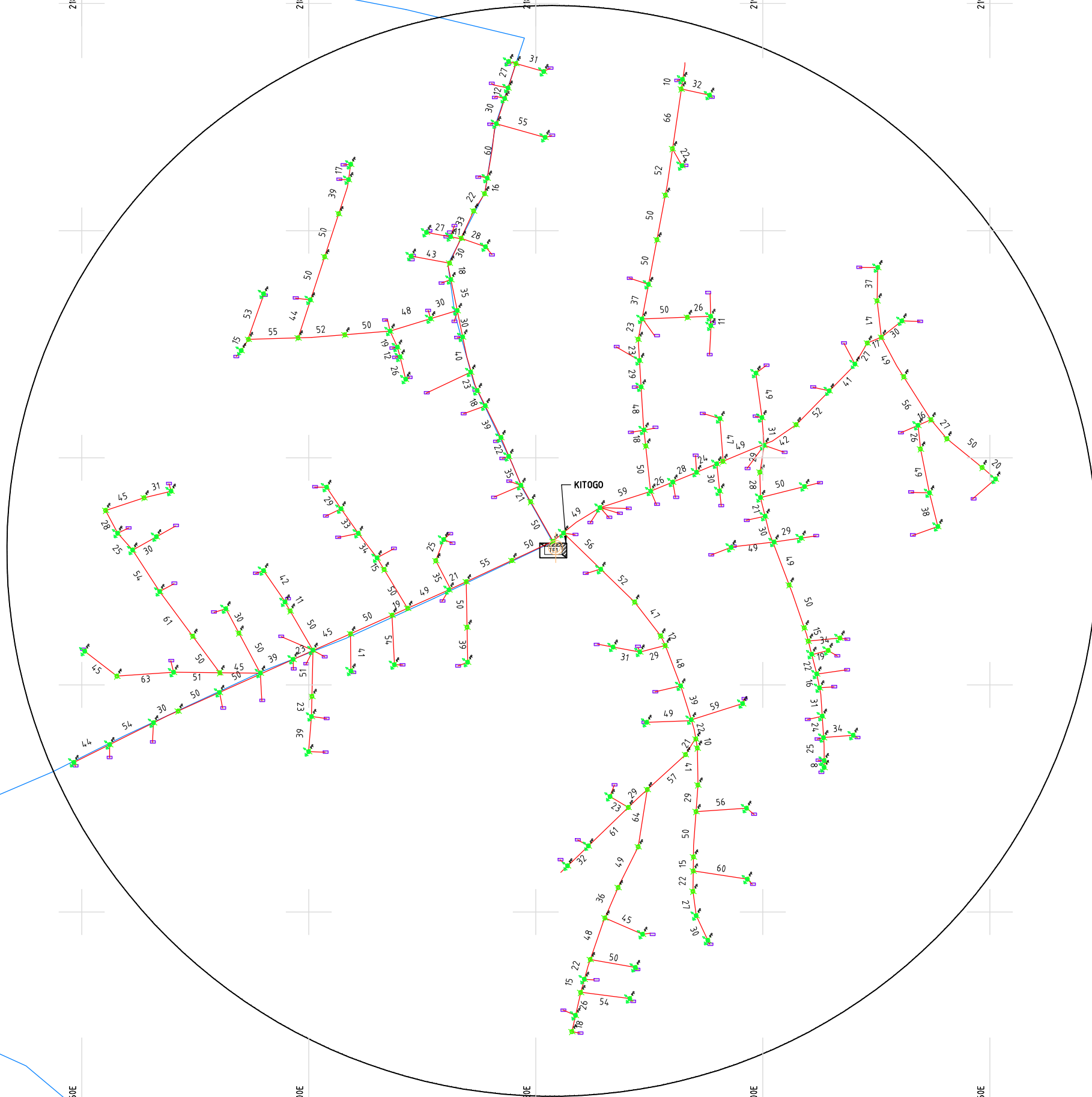
219500E

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.

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



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

SCALE 1:5000 (A3)



9991750N

218000E

218250E

218500E

218750E

219000E

219250E

219500E

9991750N

9991500N

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9990750N

9990750N

218000E

218250E

218500E

218750E

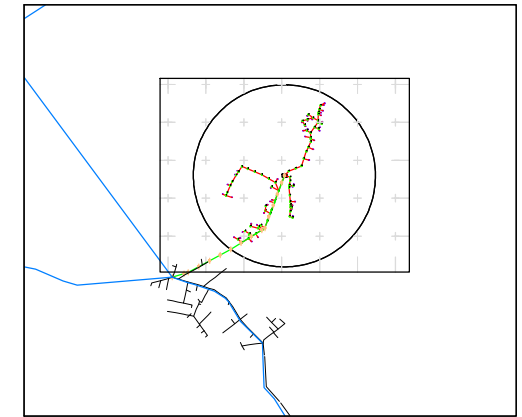
219000E

219250E

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
- 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: 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



9991750N

218250E

218500E

218750E

219000E

219250E

219500E

9991750N

218000E

9991500N

9991250N

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9990750N

218000E

218250E

218500E

218750E

219000E

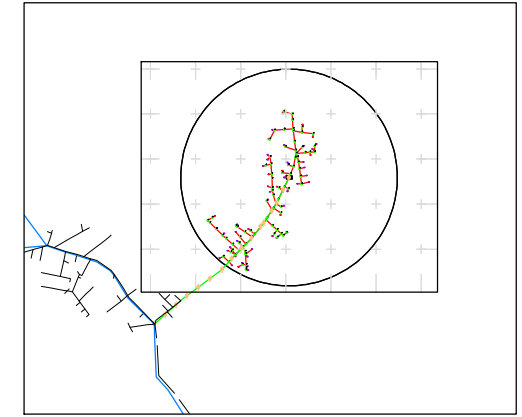
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219500E

9990750N

NOTES:

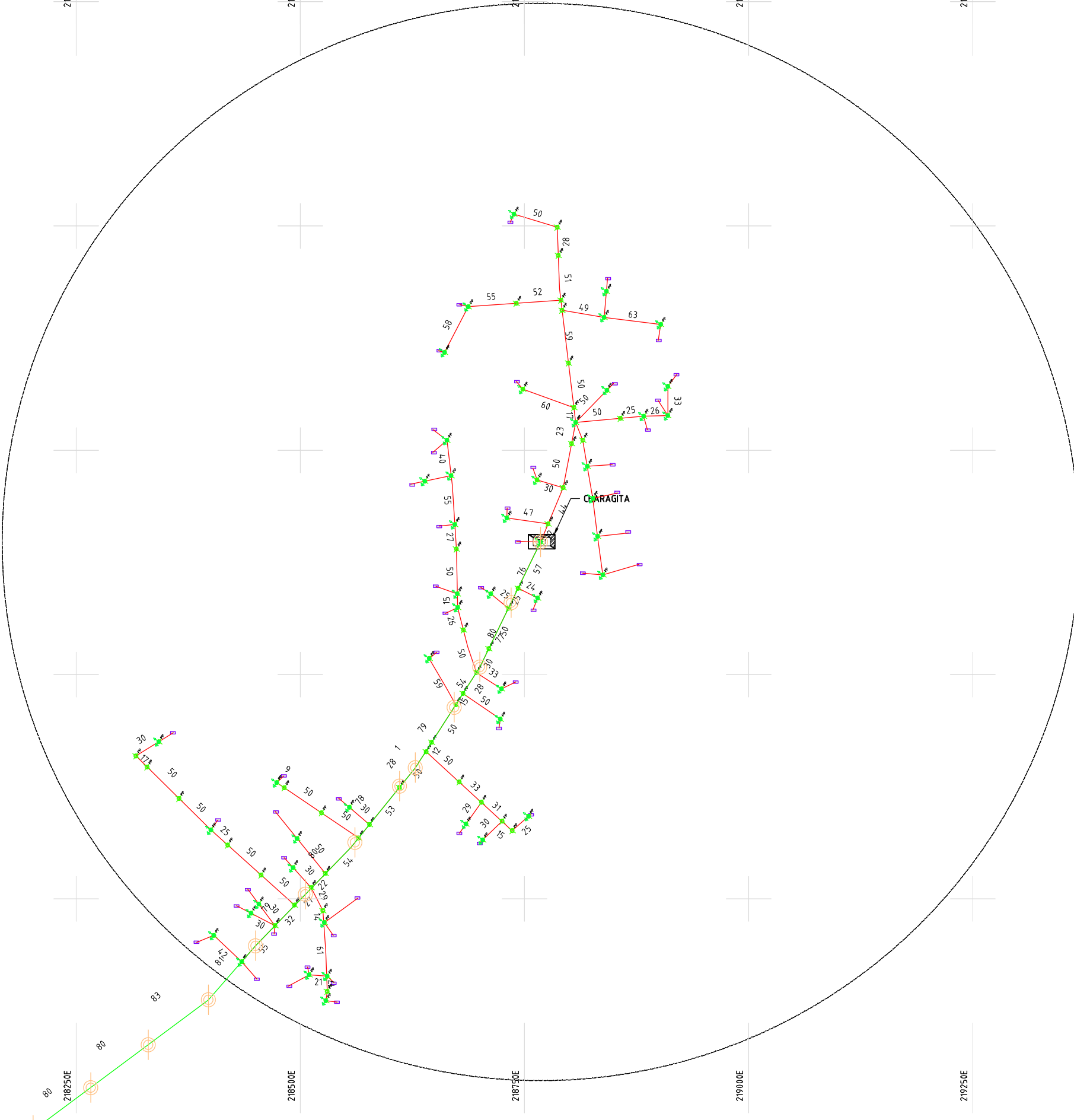
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.



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



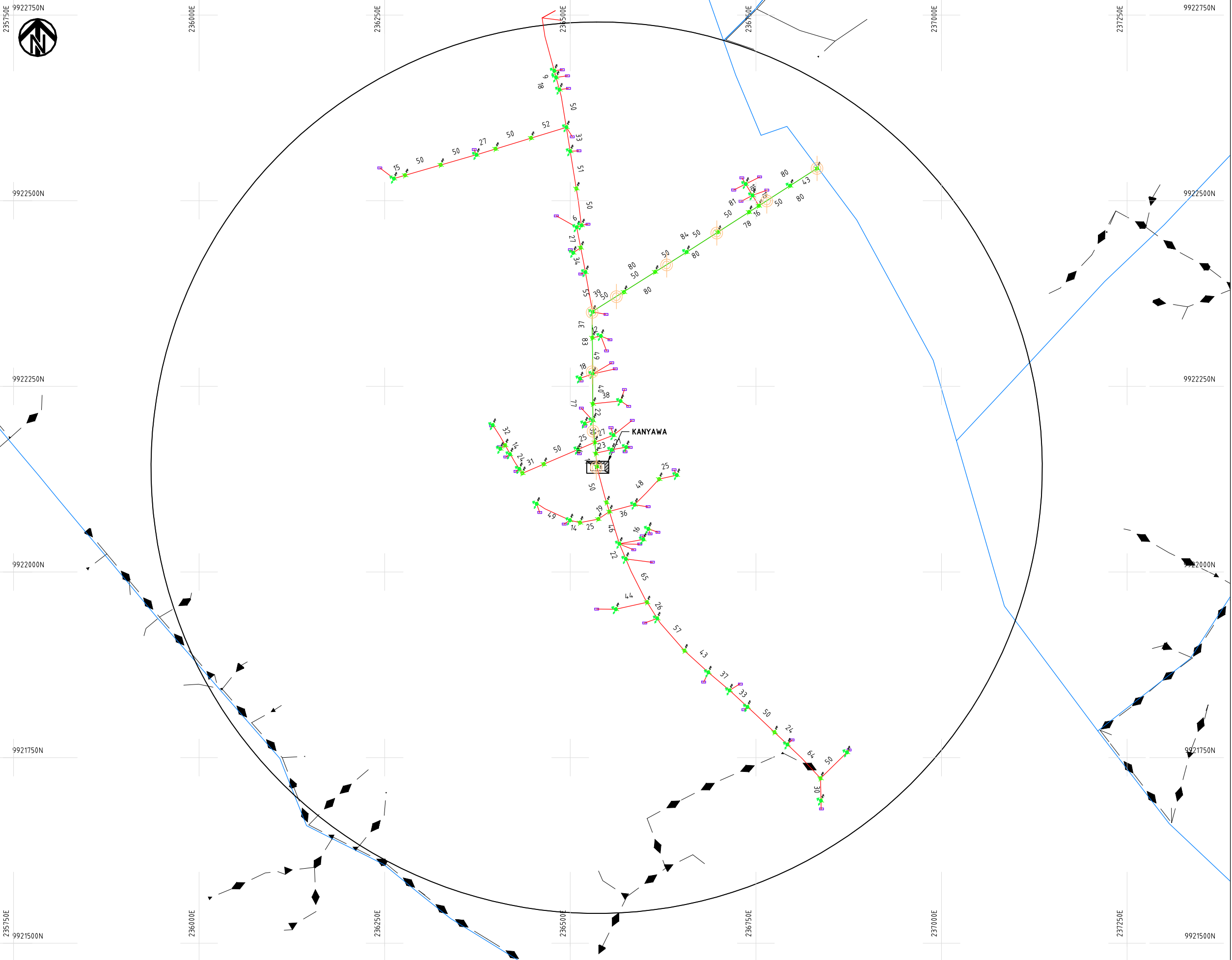
PROJECT:
**THE PREPARATORY SURVEY
 ON THE PROJECT FOR IMPROVEMENT
 OF POWER DISTRIBUTION SYSTEM
 IN THE REPUBLIC OF KENYA**

DRAWING TITLE
 COUNTY: NYANDARUA
 SCHEME: EXTENSION
 PROJECT SITE: Charagita

| | | |
|-----------|-------------|---------------|
| DRAW. NO. | 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.

LEGEND

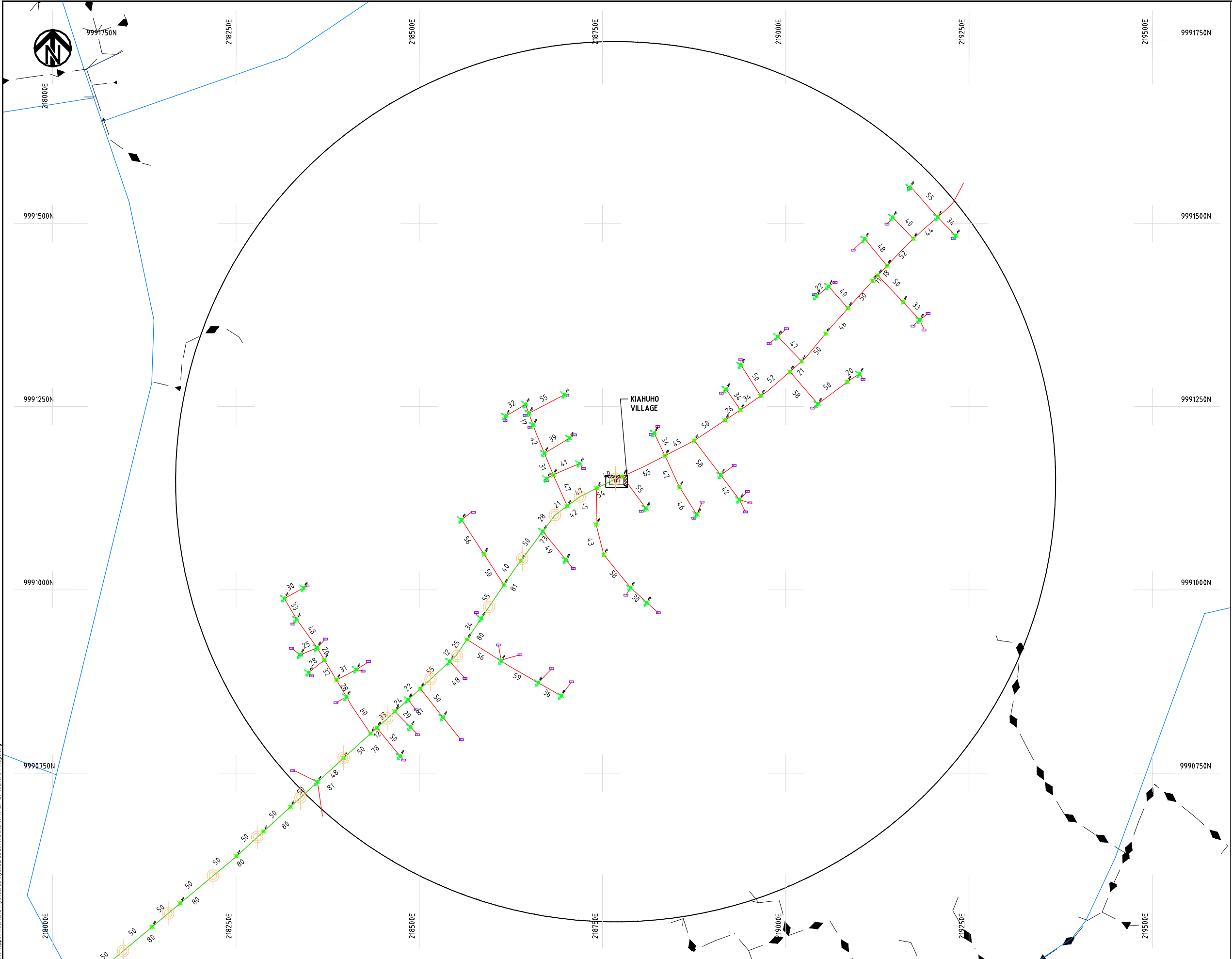
- HOUSEHOLDS/ BUILDINGS
- PROPOSED 11kV
- PROPOSED 33kV
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES 12M
- CONCRETE ELECTRIC POLES 11M
- LV-EARTH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



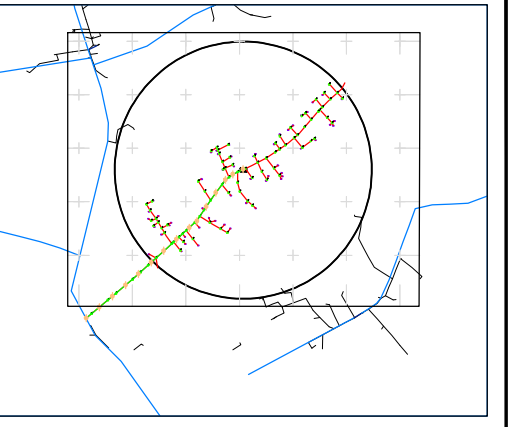
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| | | | | | |
|--|---|----------|-----------|-------------|---------------|
| PROJECT: THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA | DRAWING TITLE COUNTY: NYANDARUA SCHEME: EXTENSION PROJECT SITE: Kanyawa | | DRAW. NO. | PREPARED BY | A.AKBAR |
| | | | NYA-EX-19 | CHECKED BY | S.MAETA |
| | APPROVED BY | Y.TANAKA | | DATE | 10th SEP 2018 |
| | | | | | |

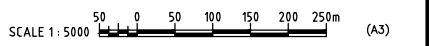




- NOTES:**
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
 4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.



- 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\Nyandarua Extension\NYA-EX-20-Kiahuho Village.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: EXTENSION PROJECT SITE: Kiahuho Village | | NYA-EX-20 | CHECKED BY | S.MAETA |
| | | | | APPROVED BY | Y.TANAKA |
| | | | | DATE | 10th SEP 2018 |





9991750N

218000E

9991500N

9991250N

9991000N

9990750N

218000E

218250E

218500E

218750E

219000E

219250E

219500E

9991750N

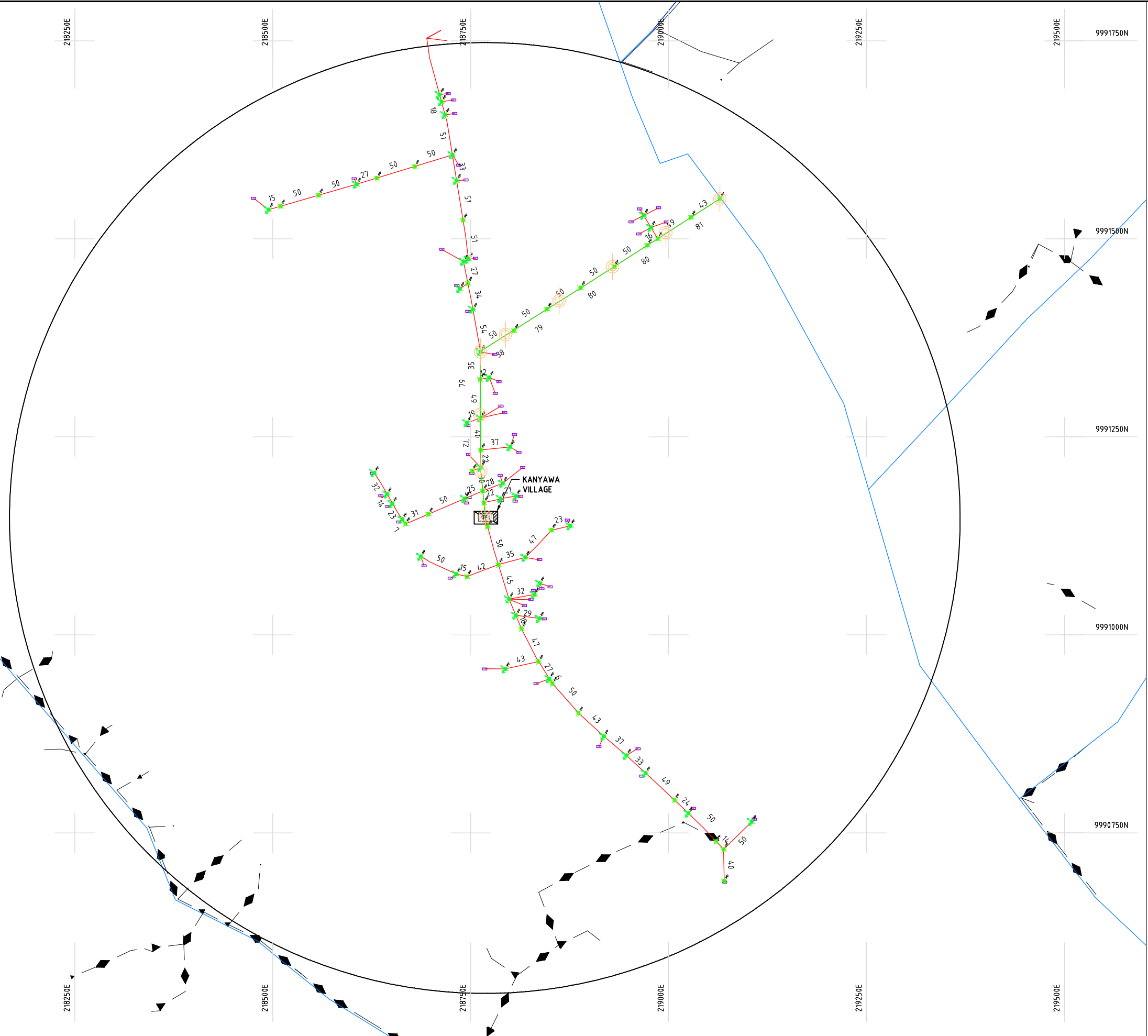
9991500N

9991250N

9991000N

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.

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: Kinyawa Village

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



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



219750E

220000E

220250E

220500E

220750E

221000E

221250E

9965000N

9964750N

9964500N

9964250N

9964000N

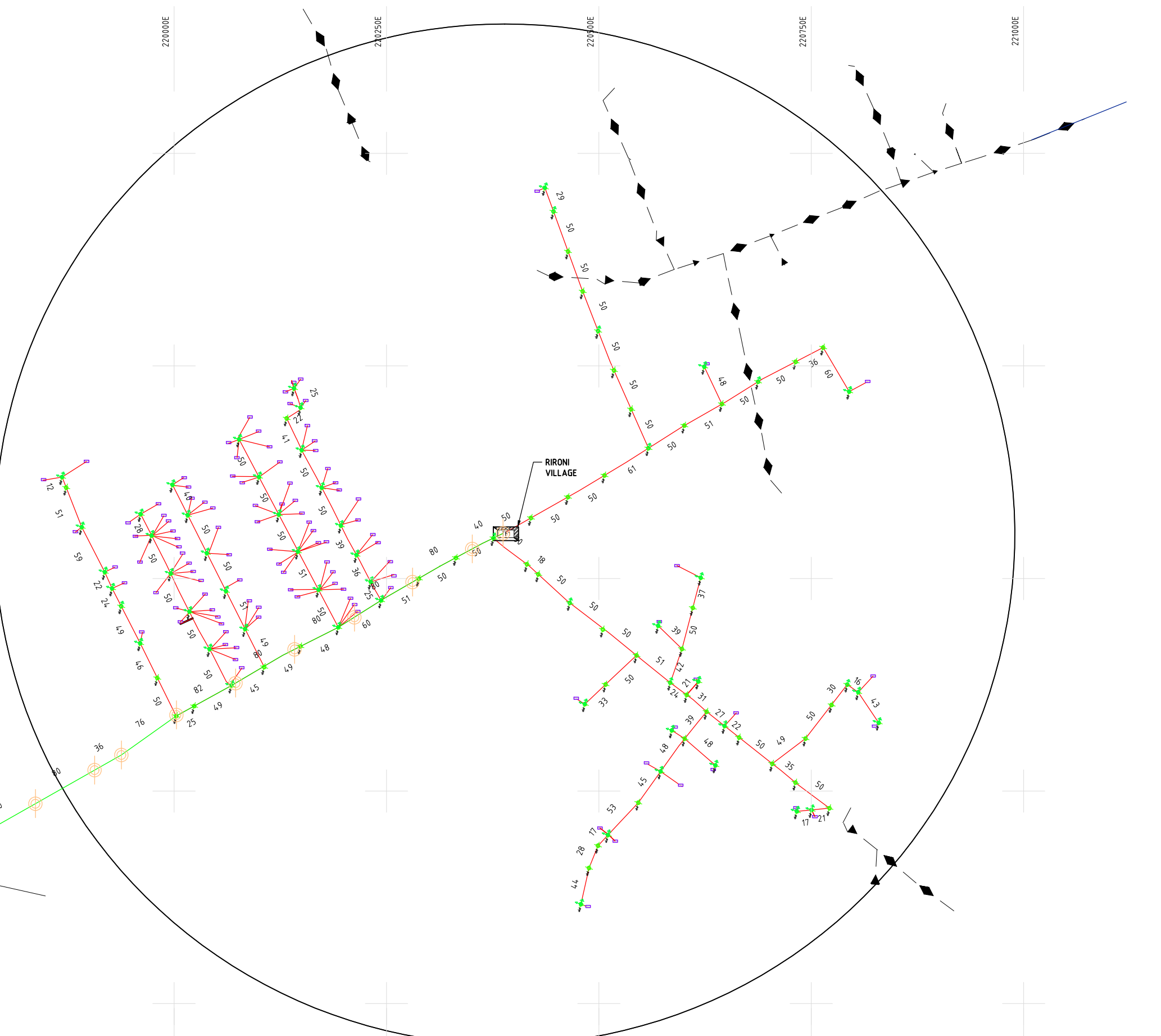
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9964750N

9964500N

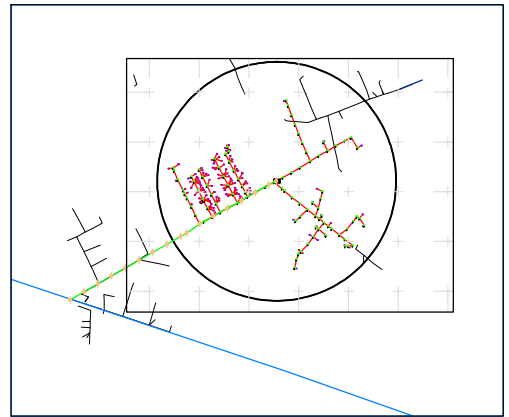
9964250N

9964000N



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 (A3)

Cad File No. D:\Frank-Proj\2018\Nippon Koei\CAD\Nyandarua Extension\NYA-EX-22-Ririni Village-1-21645-1912.dwg

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: Ririni Village

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





221250E

221500E

221750E

222000E

222250E

222500E

9948500N

9948250N

9948000N

9947750N

9947500N

221250E

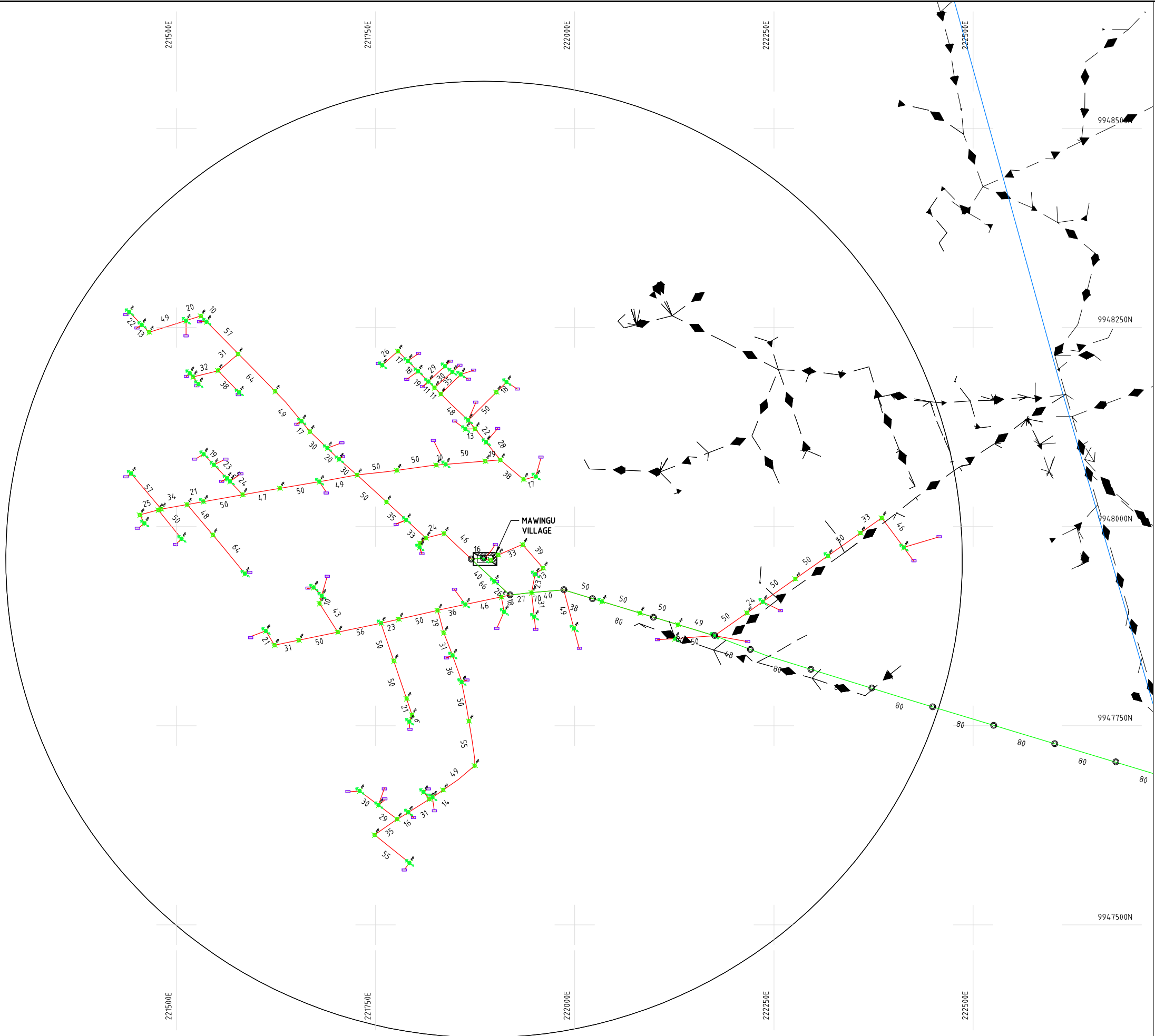
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221750E

222000E

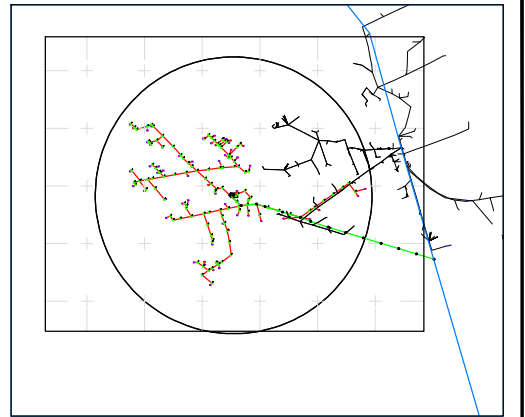
222250E

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 (A3)

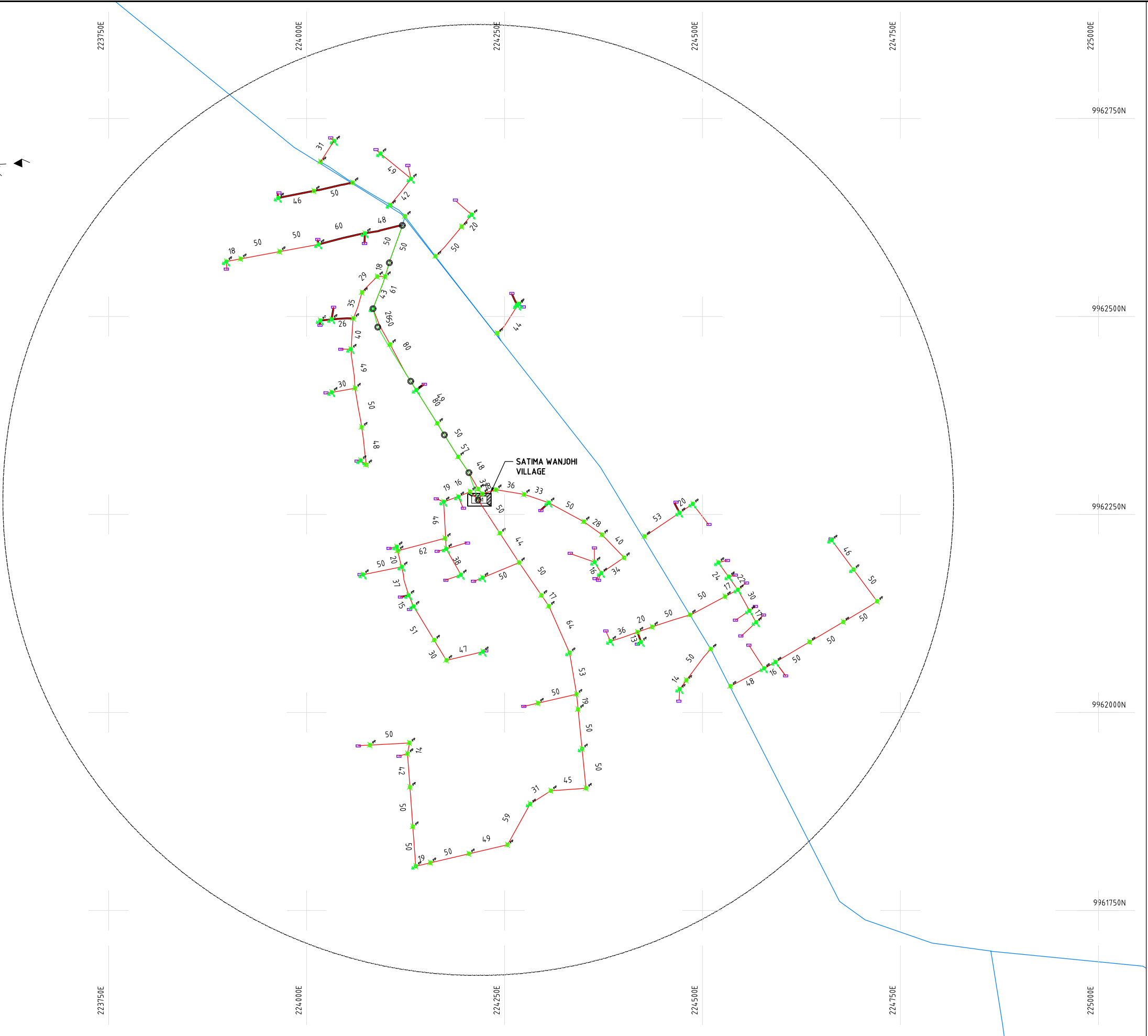
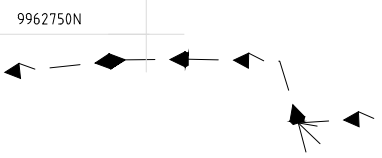
PROJECT:
**THE PREPARATORY SURVEY
 ON THE PROJECT FOR IMPROVEMENT
 OF POWER DISTRIBUTION SYSTEM
 IN THE REPUBLIC OF KENYA**

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

| | | |
|-----------|-------------|---------------|
| DRAW. NO. | PREPARED BY | A.AKBAR |
| NYA-EX-23 | CHECKED BY | S.MAETA |
| | APPROVED BY | Y.TANAKA |
| | DATE | 10th SEP 2018 |



Cad File No. D:\Frank-Proj\2018\Nippon Koei\CAD\Nyandarua\Nyandarua Extension\NYA-EX-23-Mawingu 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



Cad File No. D:\Frank-Proj\2018\Nippon Koei\CAD\Nyandarua Extensions\NYA-EX-24-Satima Wanjohi Village.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-EX-24 | CHECKED BY | S.MAETA |
| SCHEME: EXTENSION | | APPROVED BY | | Y.TANAKA | |
| PROJECT SITE: Satima Wanjohi Village | | DATE | | 10th SEP 2018 | |





224250E

224500E

224750E

225000E

225250E

225500E

9961250N

9961250N

9961000N

9961000N

9960750N

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9960250N

224250E

224500E

224750E

225000E

225250E

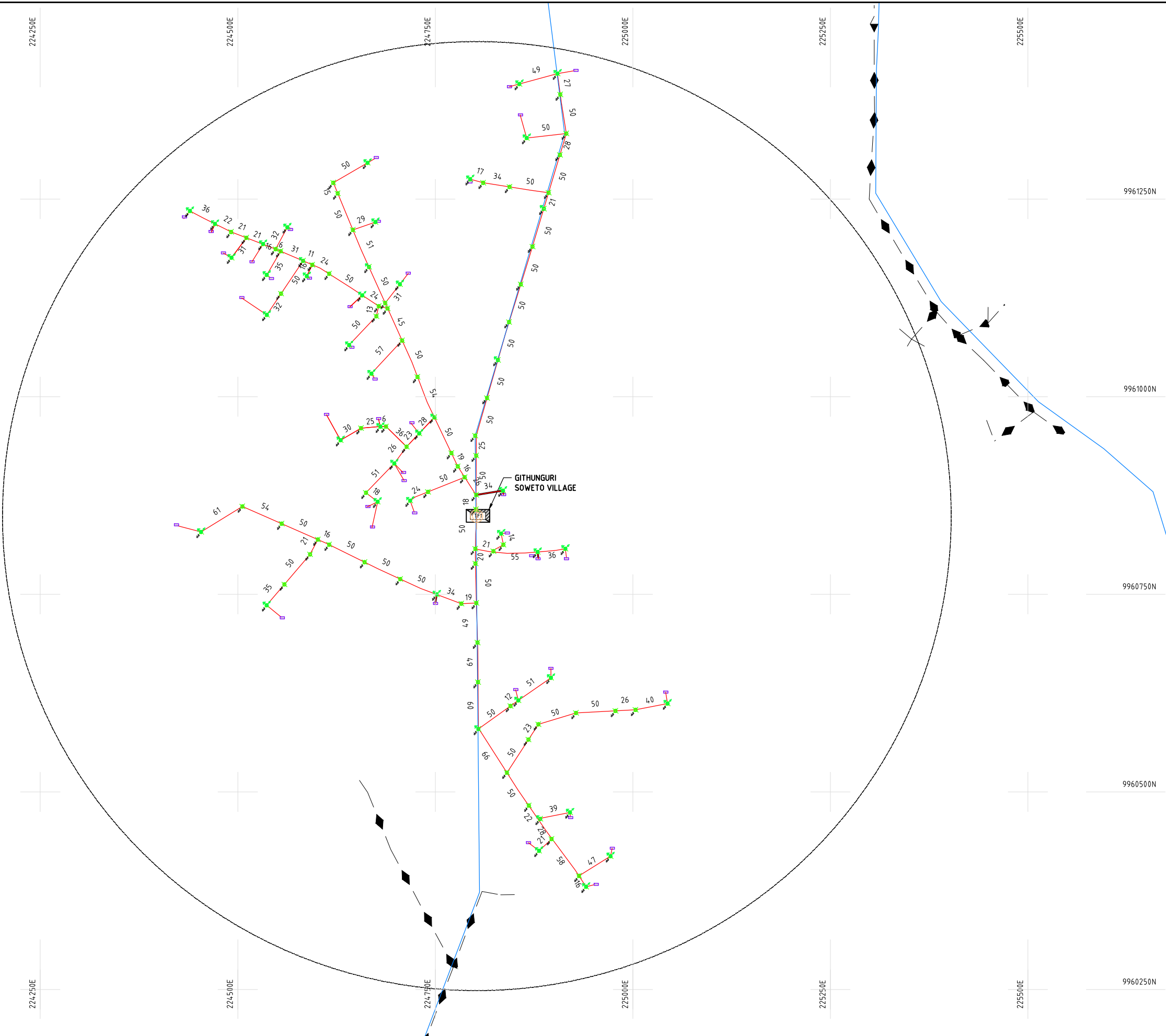
225500E

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



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. | PREPARED BY | A.AKBAR |
| | CHECKED BY | S.MAETA |
| | APPROVED BY | Y.TANAKA |
| | DATE | 10th SEP 2018 |



SCALE 1:5000 (A3)



994.8000N

225250E

225500E

225750E

226000E

226250E

226500E

226750E

994.7750N

994.7750N

994.7500N

994.7500N

994.7250N

994.7250N

994.7000N

994.7000N

225250E

225500E

225750E

226000E

226250E

226500E

226750E

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)

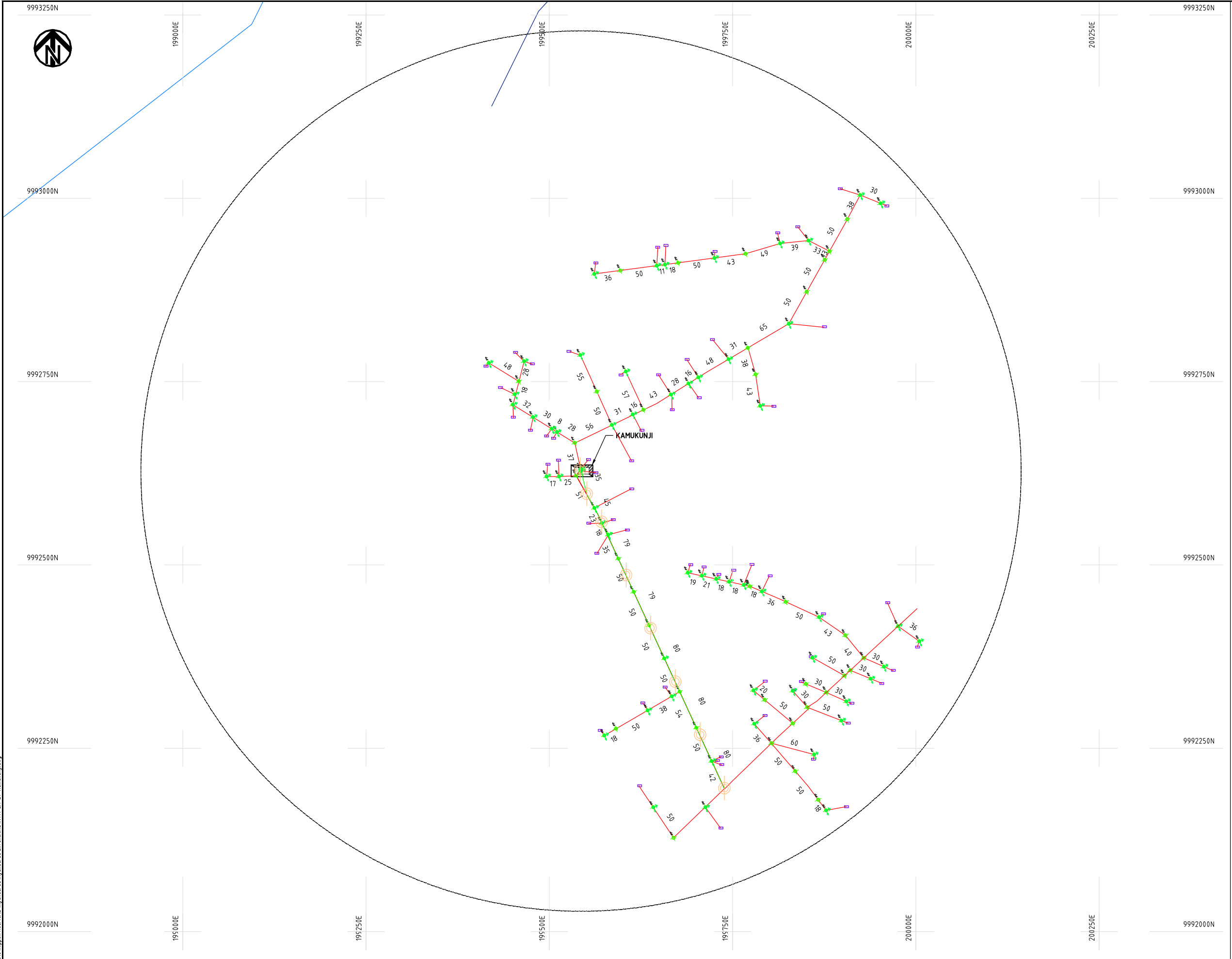
PROJECT:
**THE PREPARATORY SURVEY
 ON THE PROJECT FOR IMPROVEMENT
 OF POWER DISTRIBUTION SYSTEM
 IN THE REPUBLIC OF KENYA**

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

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



Cad File No. D:\Frank-Proj\2018\Nippon Koei\CAD\Nyandarua Extension\NYA-EX-26-Kamirangi 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



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

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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-27 | CHECKED BY | S.MAETA |
| | SCHEME: EXTENSION | | | APPROVED BY | Y.TANAKA |
| | PROJECT SITE: Kamukunji | | | DATE | 10th SEP 2018 |





194750E

195000E

195250E

195500E

195750E

196000E

9985000N

9985000N

9984750N

9984750N

9984500N

9984500N

9984250N

9984250N

9984000N

9984000N

194750E

195000E

195250E

195500E

195750E

196000E

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 Extension\NYA-EX-28-Kariko B Village.dwg

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 |
| | CHECKED BY | S.MAETA |
| | APPROVED BY | Y.TANAKA |
| | DATE | 10th SEP 2018 |





9925250N

236000E

9925000N

236250E

9924750N

236500E

9924500N

236750E

9924250N

236000E

236250E

236500E

236750E

237000E

237250E

9925250N

9925000N

9924750N

9924500N

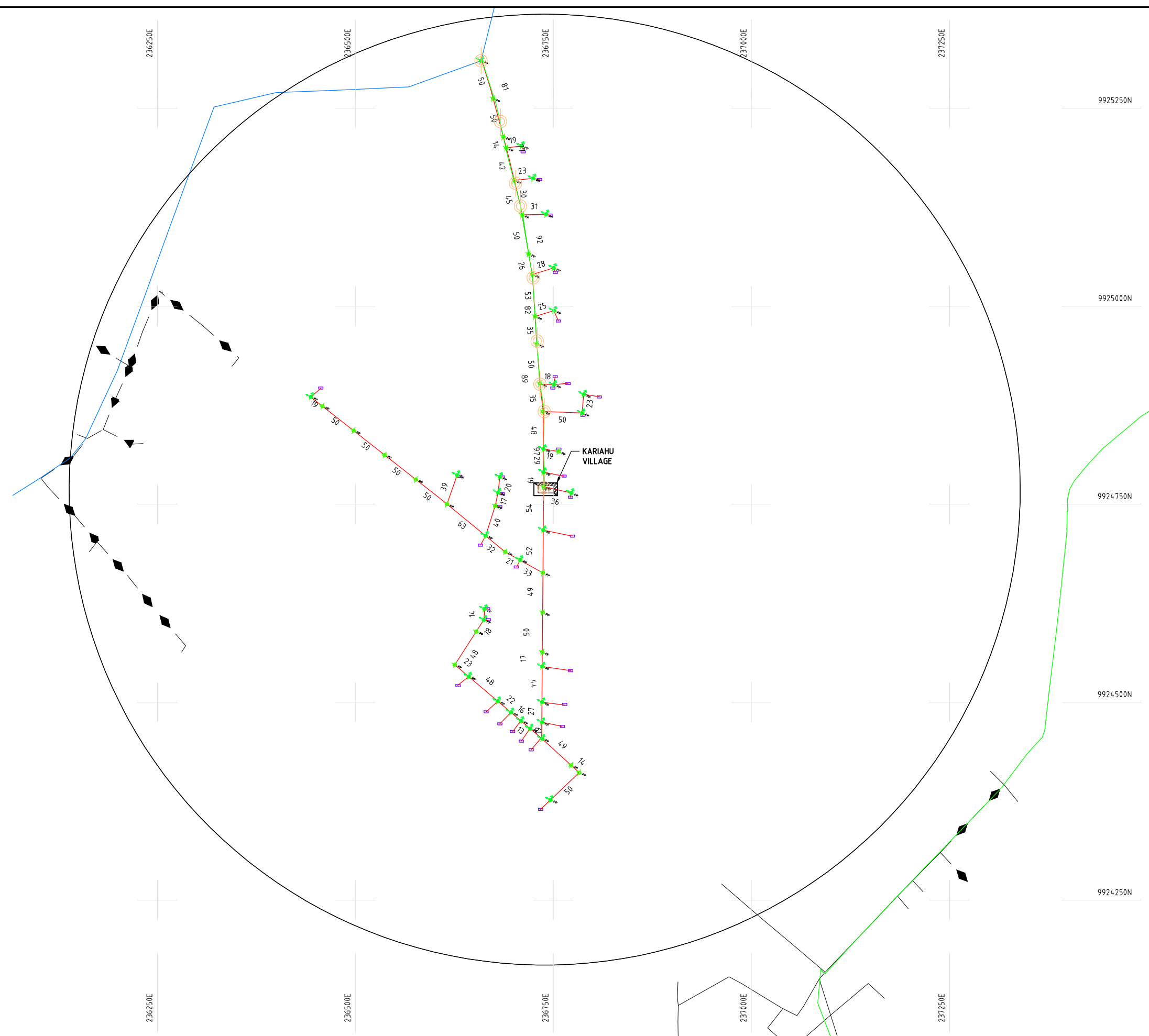
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NOTES:

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



KARIAHU VILLAGE



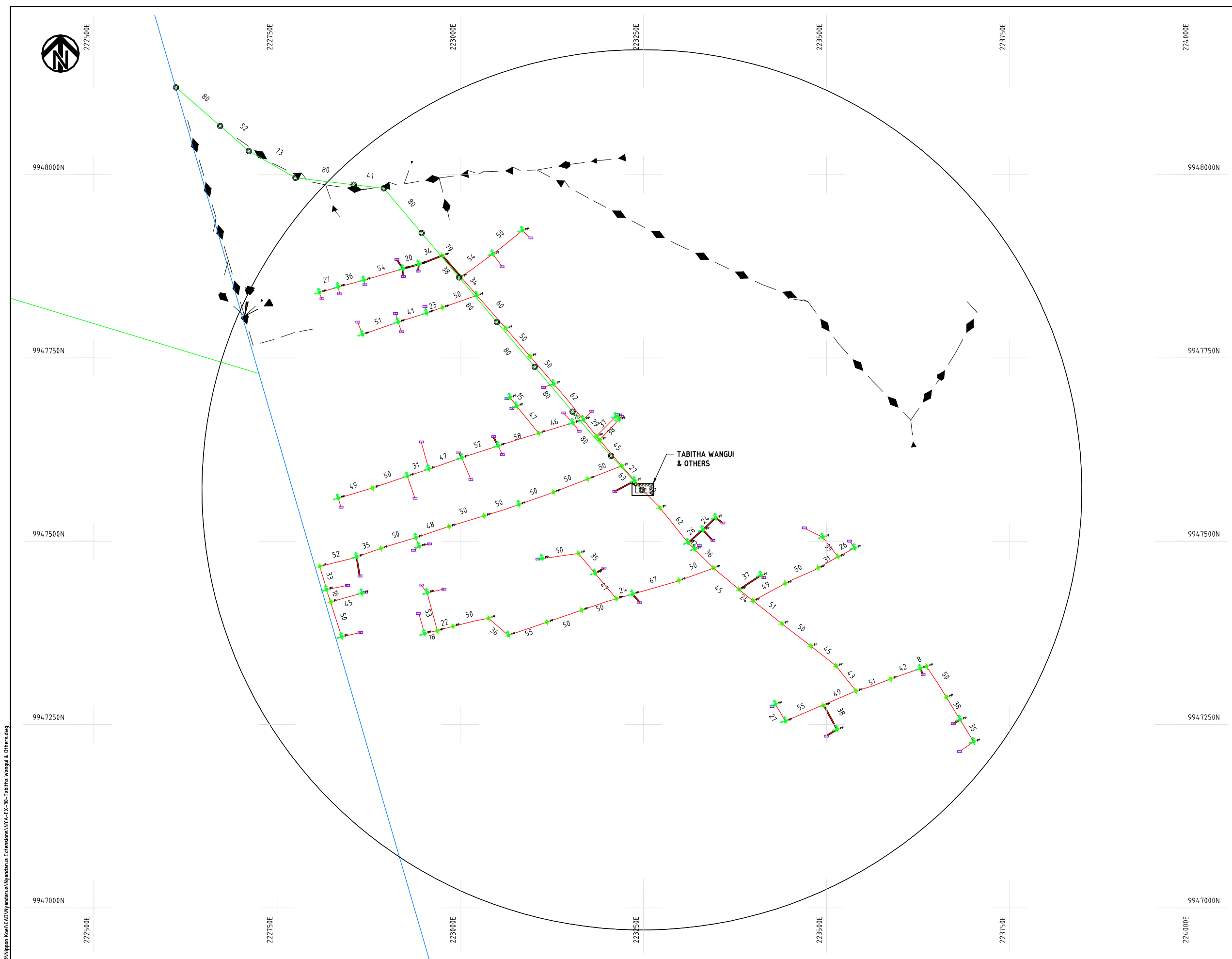
PROJECT:
**THE PREPARATORY SURVEY
 ON THE PROJECT FOR IMPROVEMENT
 OF POWER DISTRIBUTION SYSTEM
 IN THE REPUBLIC OF KENYA**

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

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



Cad File No.: D:\Frank-Proj\2018\Nippon Koei\CAD\Nyandarua Extension\NYA-EX-29-Kiriahu.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



Cad File No. D:\Frank-Proj\2018\Nippon Koei\CAD\Nyandarua Extensions\NYA-EX-30-Tabitha Wangui & Others.dwg

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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: EXTENSION PROJECT SITE: Tabitha Wangui & Others | DRAW. NO. NYA-EX-30 | PREPARED BY A.AKBAR | CHECKED BY S.MAETA | APPROVED BY Y.TANAKA | DATE 10th SEP 2018 |
|--|---|------------------------|------------------------|-----------------------|-------------------------|-----------------------|





9991750N

218250E

218500E

218750E

219250E

219500E

9991750N

9991500N

9991500N

9991250N

9991250N

9991000N

9991000N

9990750N

9990750N

218000E

218250E

218500E

218750E

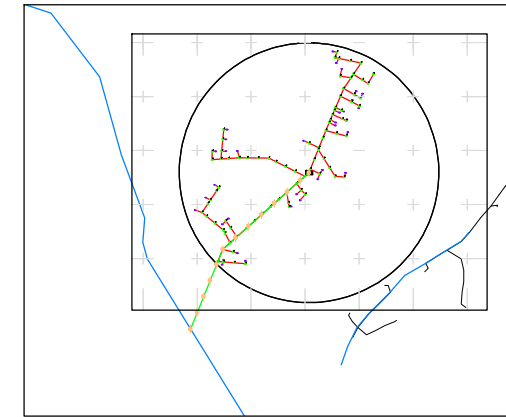
219000E

219250E

219500E

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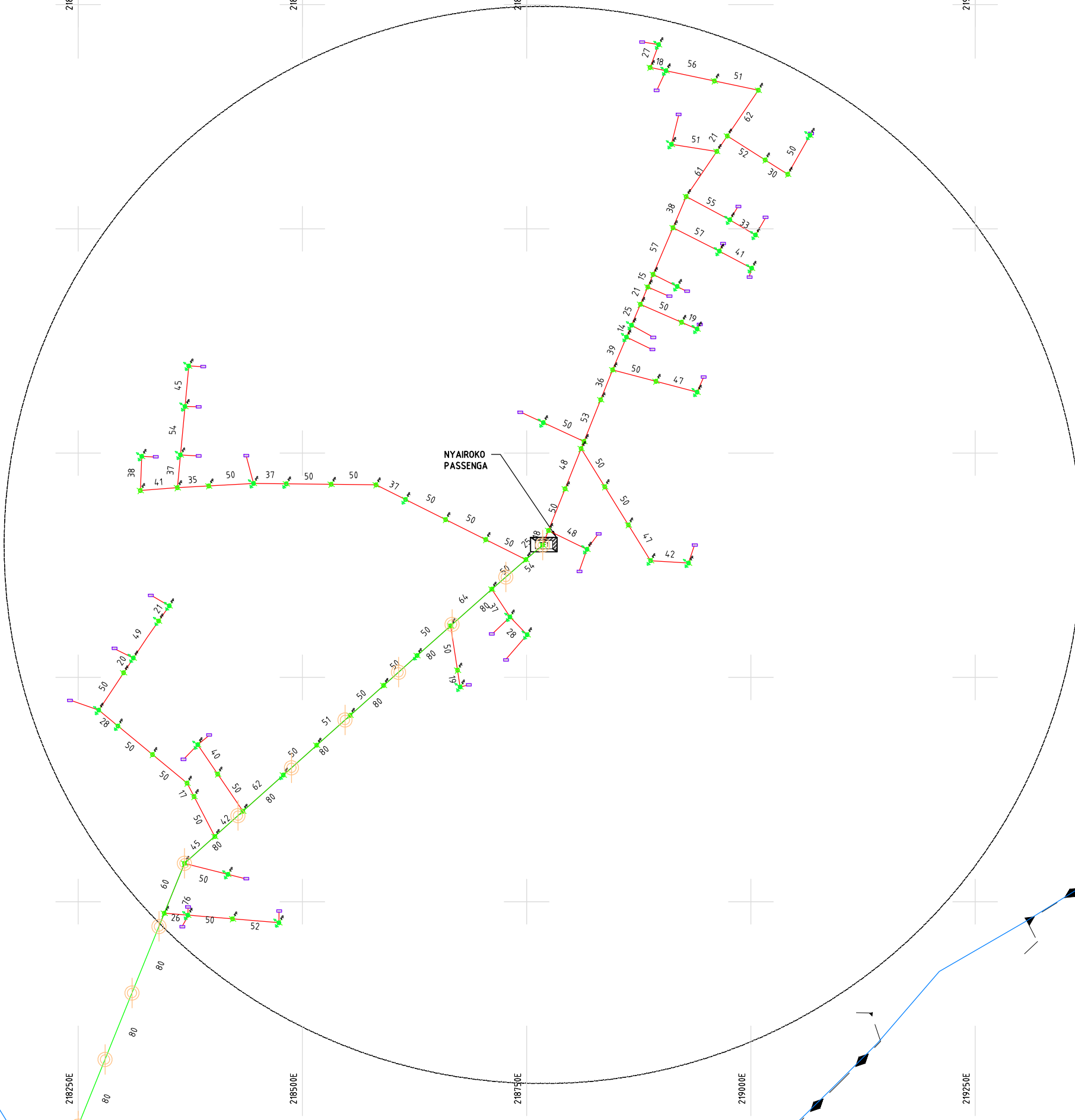
1. EXACT LOCATIONS OF POWER POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
2. CONCRETE/ WOODEN POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
3. LENGTH OF POLES TO BE DETERMINED ON SITE BY THE ENGINEER.
4. PME TO BE AFTER EVERY 200m INTERVAL OR AFTER 4 SPANS.



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



NYAIROKO PASSENGA



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

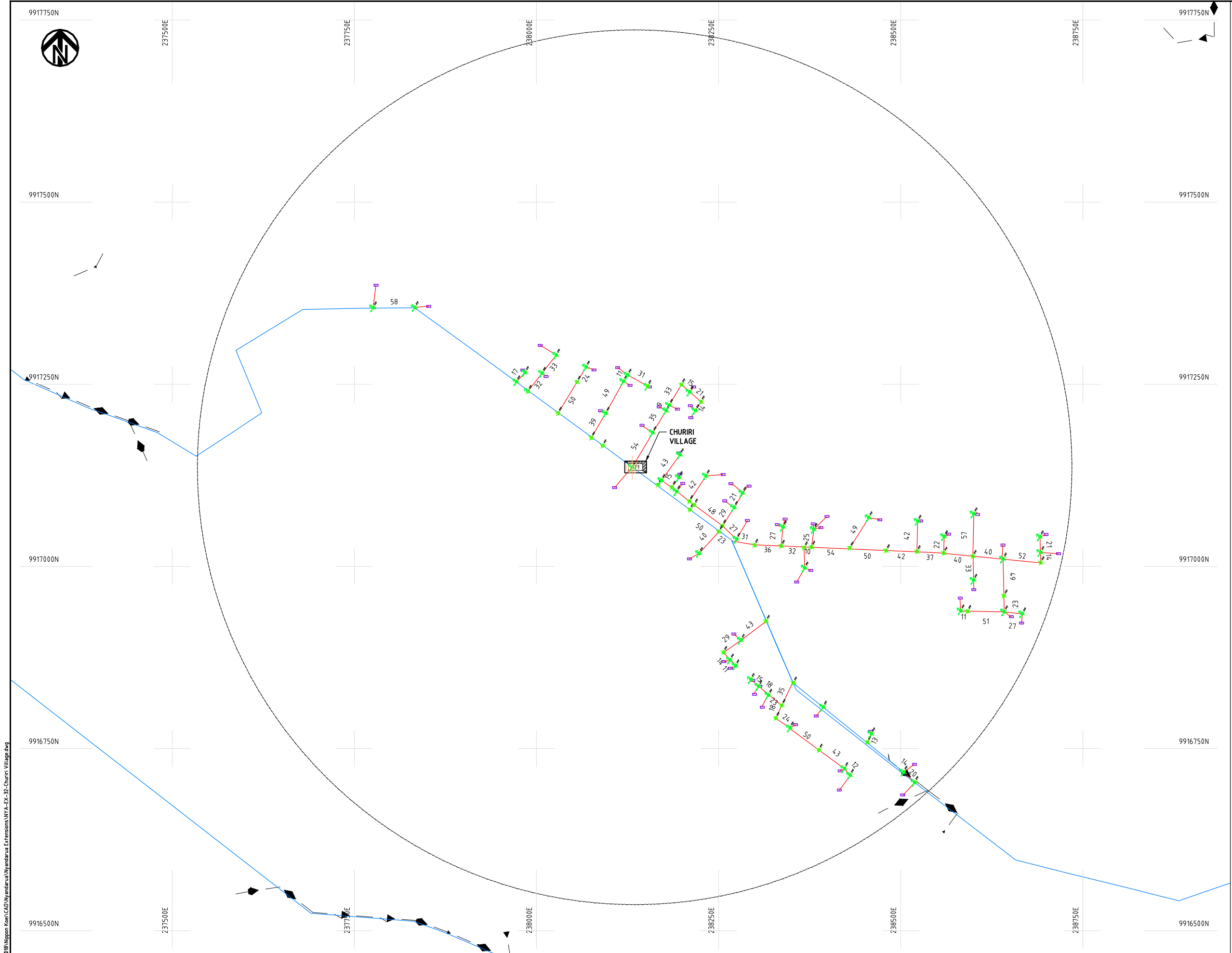
DRAWING TITLE

COUNTY: NYANDARUA
 SCHEME: EXTENSION
 PROJECT SITE: Nyairoko Passenga

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



Cad File No.: D:\Frank-Proj\2018\Nippon Koei\CAD\Nyandarua Extensions\NYA-EX-31-Nyairoko Passenger.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

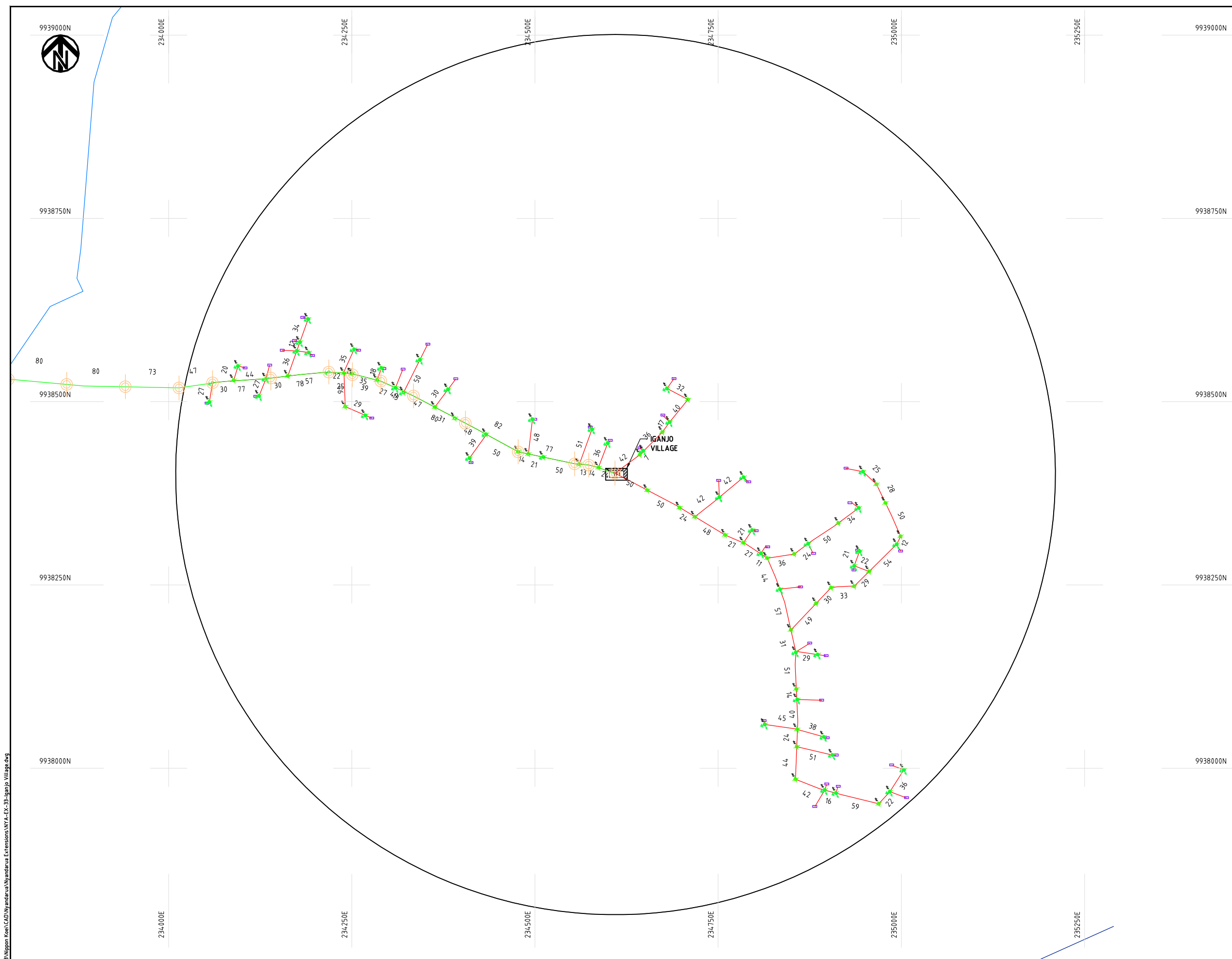
- HOUSEHOLDS/ BUILDINGS
- PROPOSED 11kV
- PROPOSED 33kV
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES 12M
- CONCRETE ELECTRIC POLES 11M
- LV-EARTH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



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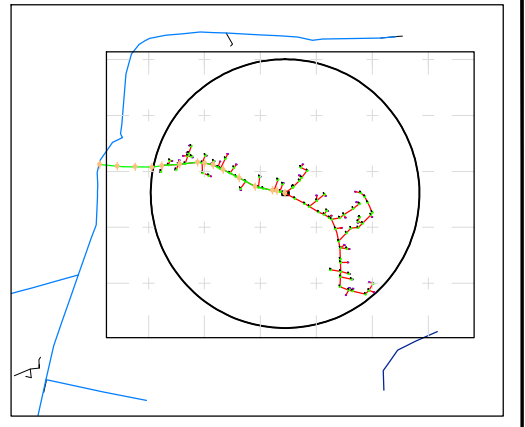
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|--|-------------------|-------------------|-----------|-------------|---------------|
| PROJECT: THE PREPARATORY SURVEY ON THE PROJECT FOR IMPROVEMENT OF POWER DISTRIBUTION SYSTEM IN THE REPUBLIC OF KENYA | DRAWING TITLE | | DRAW. NO. | PREPARED BY | A.AKBAR |
| | COUNTY: NYANDARUA | Scheme: EXTENSION | NYA-EX-32 | CHECKED BY | S.MAETA |
| PROJECT SITE: Chuchiri Village | | | | 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

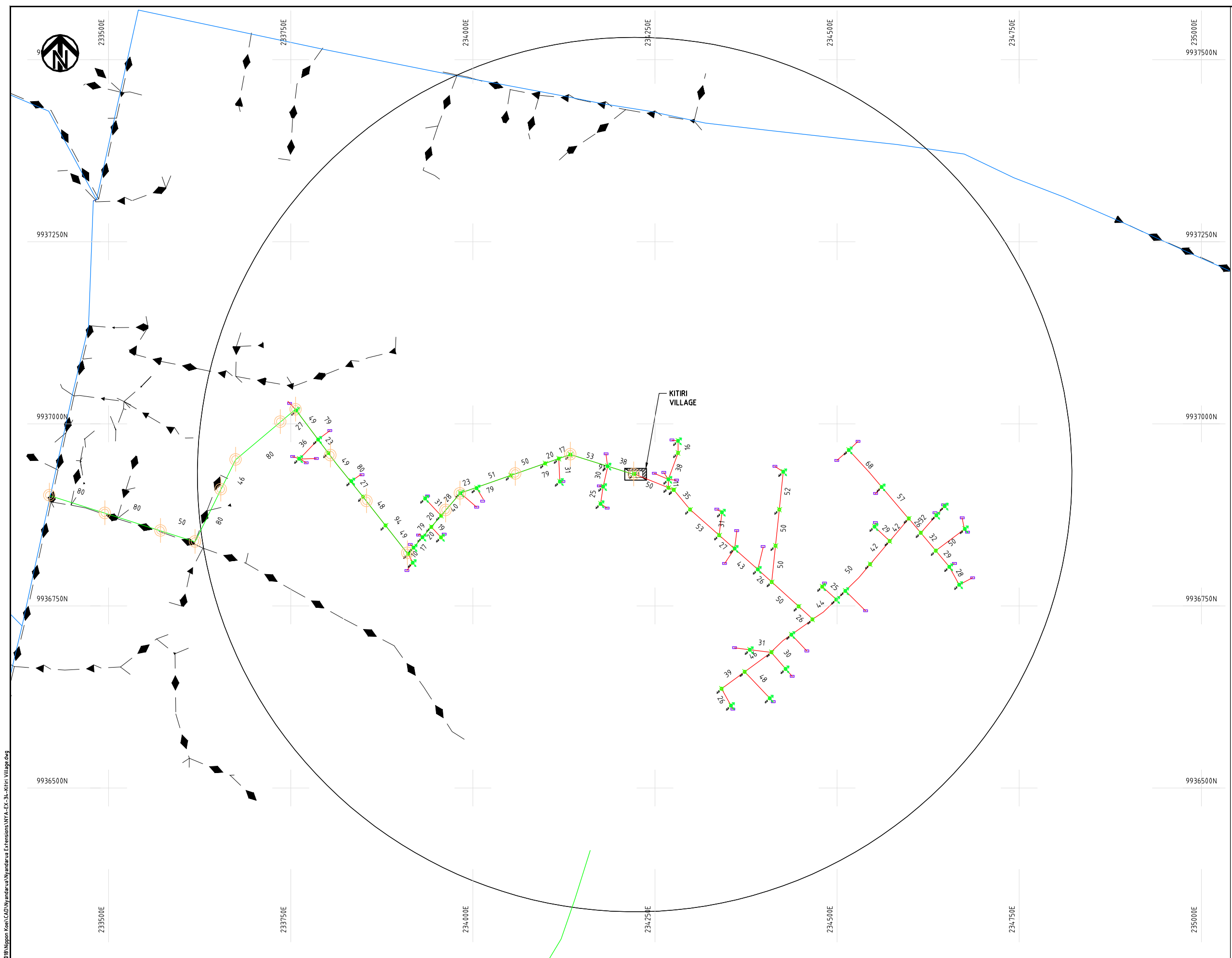
- HOUSEHOLDS/ BUILDINGS
- PROPOSED 11kV
- PROPOSED 33kV
- PROPOSED DISTRIBUTION LINE
- EXISTING 11kV LINE
- EXISTING 33kV LINE
- EXISTING DISTRIBUTION LINE
- MAXIMISATION TRANSFORMER
- EXTENSION TRANSFORMER
- WOODEN ELECTRIC POLES
- CONCRETE ELECTRIC POLES 12M
- CONCRETE ELECTRIC POLES 11M
- LV-EARTH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



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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: Iganjo Village | | NYA-EX-33 | 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)

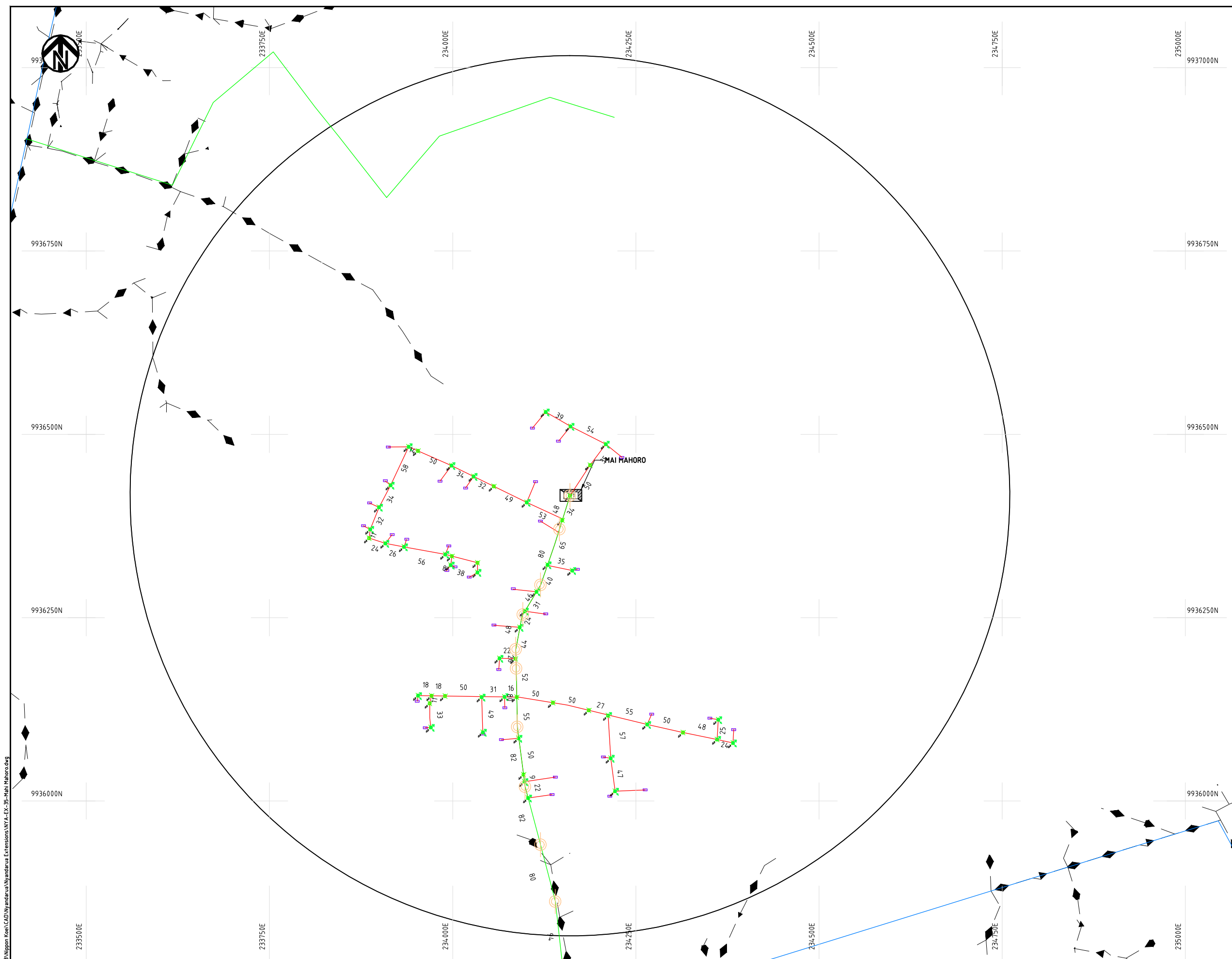
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PROJECT:
**THE PREPARATORY SURVEY
 ON THE PROJECT FOR IMPROVEMENT
 OF POWER DISTRIBUTION SYSTEM
 IN THE REPUBLIC OF KENYA**

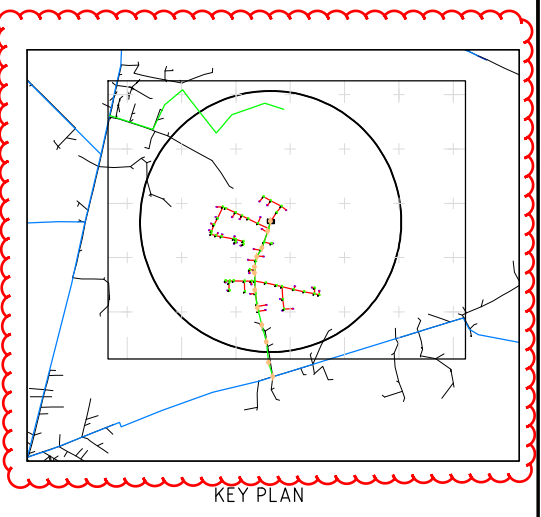
DRAWING TITLE
 COUNTY: NYANDARUA
 SCHEME: EXTENSION
 PROJECT SITE: Kitiri Village

| | | |
|-----------|-------------|---------------|
| DRAW. NO. | 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.



- 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: NYANDARUA SCHEME: EXTENSION PROJECT SITE: Mai Mahoro | | NYA-EX-35 | CHECKED BY | S.MAETA |
| | | | | APPROVED BY | Y.TANAKA |
| | | | | DATE | 10th SEP 2018 |

