

GSIHT



Ghana Switzerland Hospital Technicians

St. Anthony's Catholic Hospital Dzodze

Power supply rehabilitation Project

by

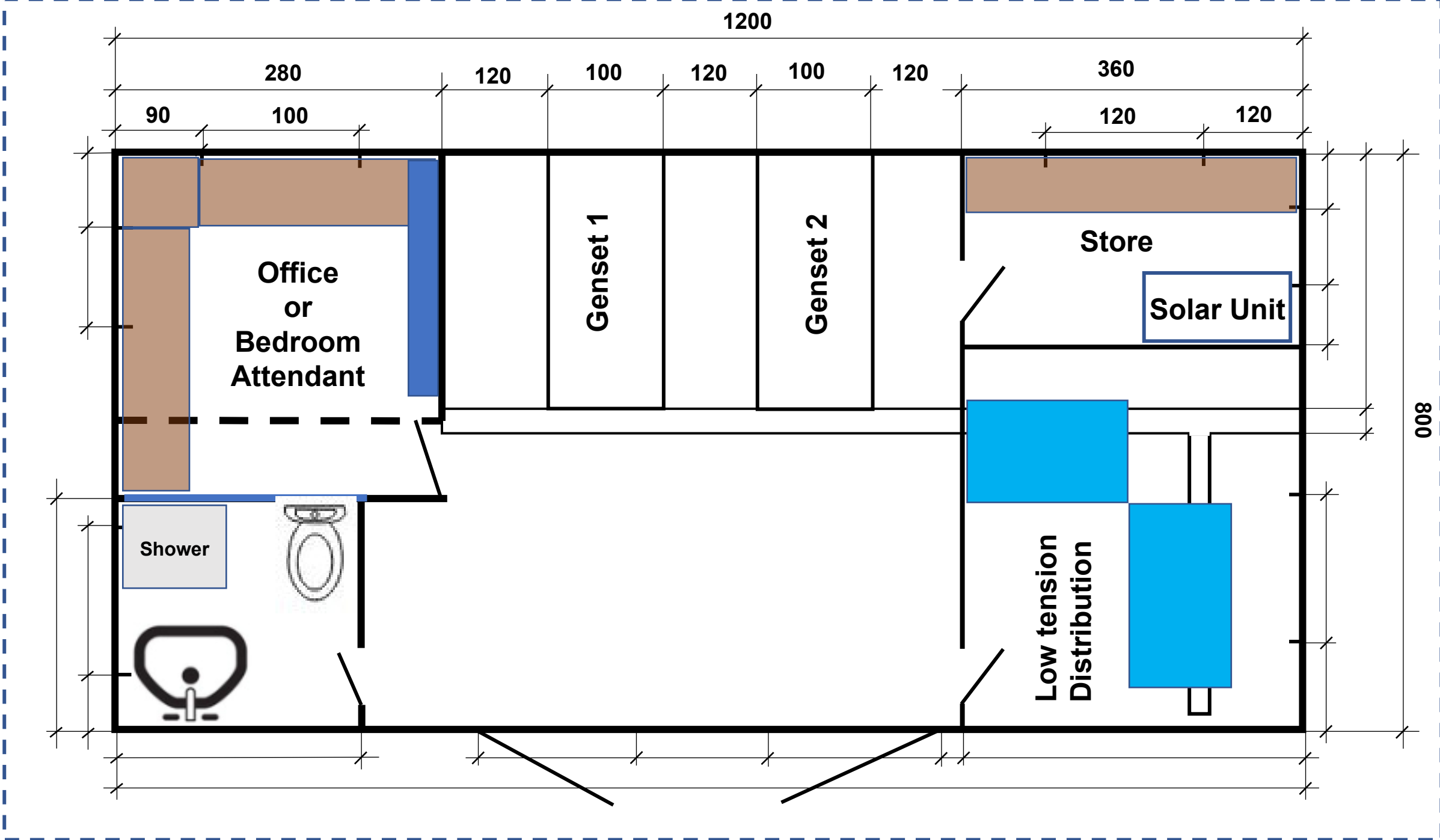
Ghana Switzerland Hospital Technicians

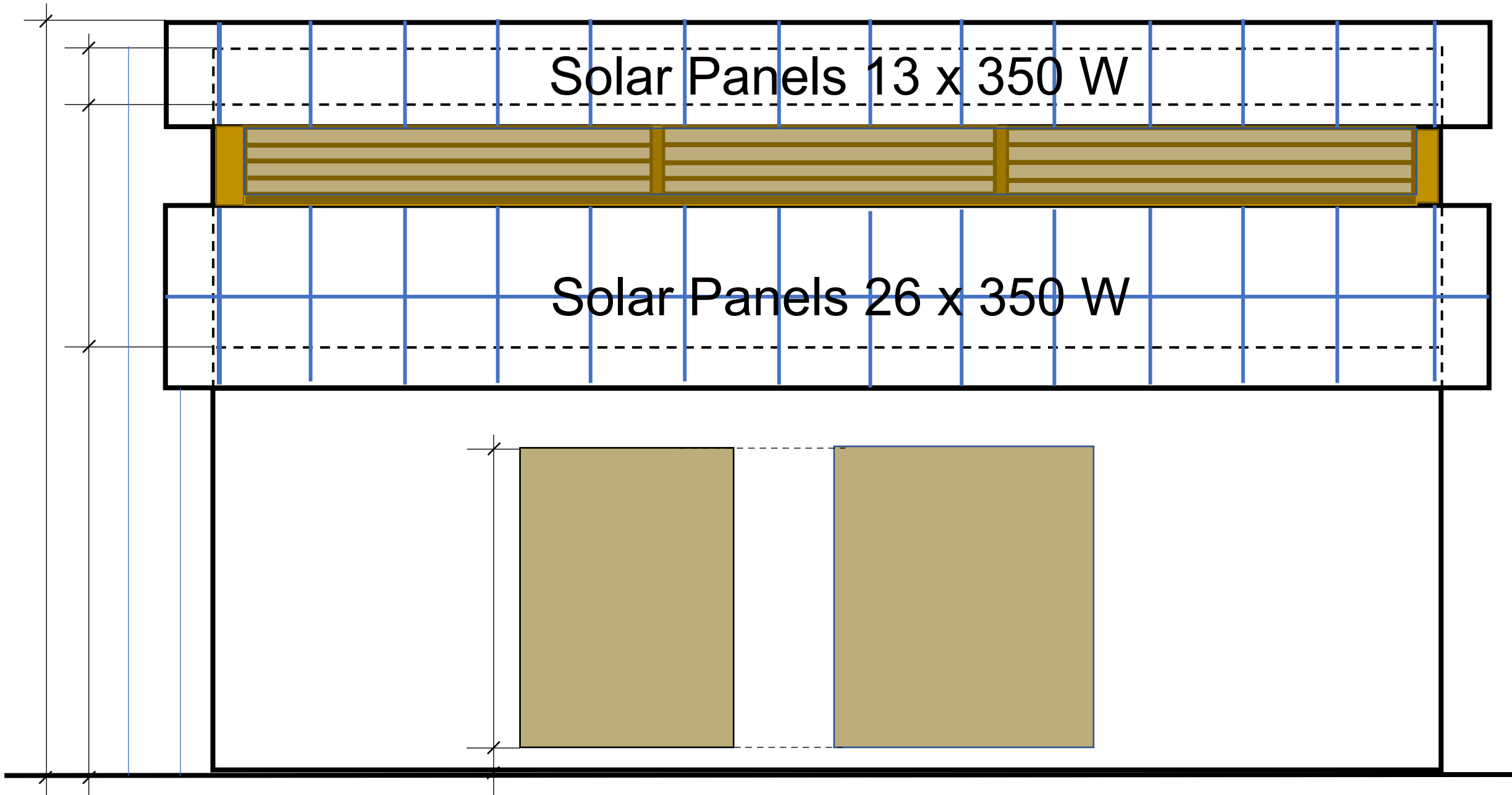
and

SOSSAH

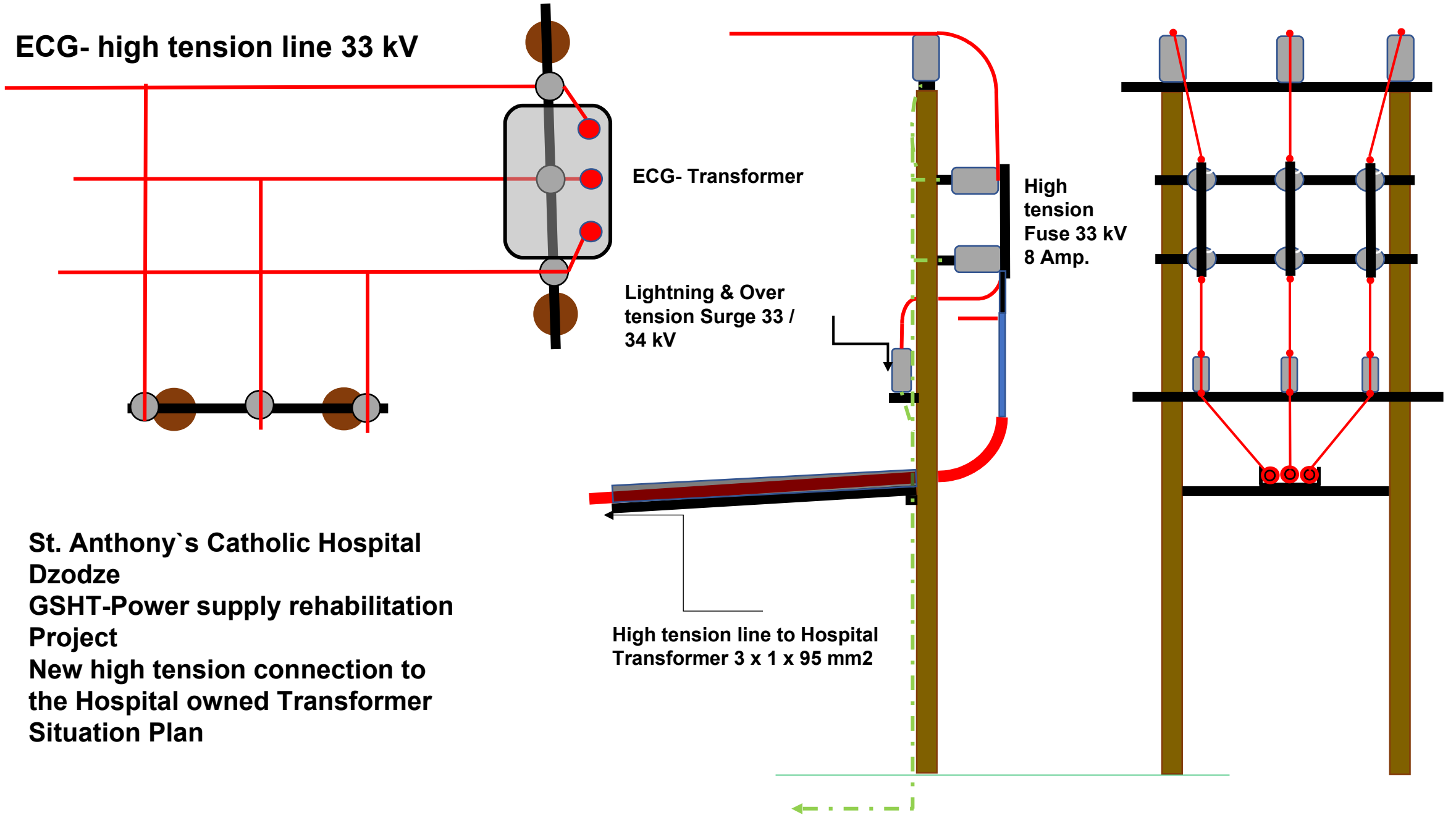
References:

Agogo Hospital, Donkorkrom Hospital, Dormaa Hospital, Eikwe Hospital,
Manso Amenfi Hospital, Battor Hospital, Sogakope Comboni Hospital, Tolla Clinic, Jamasi Hospital,
Assin Praso Hospital, Abetifi University, Basel Mission House Kumasi,





ECG- high tension line 33 kV



St. Anthony`s Catholic Hospital
Dzodze
GSHT-Power supply rehabilitation
Project
New high tension connection to
the Hospital owned Transformer
Situation Plan

TRANSFORMATORE TRIFASE

STOECKLIN

CH-4450 SISSACH

S_N 400 kVA 50.0 Hz

Nr. S134472

DVO-400/CCZ3A0A1FACABAAABBAAA1AAAR1T1

SN EN 60076/SN EN 50588-1

Jahr/Année/Anno 2019

Pos. I	U _K 4.47 %
1 33200 V	6.96 A
2 33000 V	7.00 A
3 32700 V	7.06 A
4 32300 V	7.15 A
5 32000 V	7.22 A
V	A
V	A

Pos. II	U _K	%
V		A
V		A
V		A
V		A
V		A
V		A
V		A

420/242 V 550 A

Grp. Dyn 5 ONAN

U_m 36 / 1.1 kV I_K 12.5 kA

OS-US/HT-BT AL - AL

P₀-P_k 420 - 4266 W

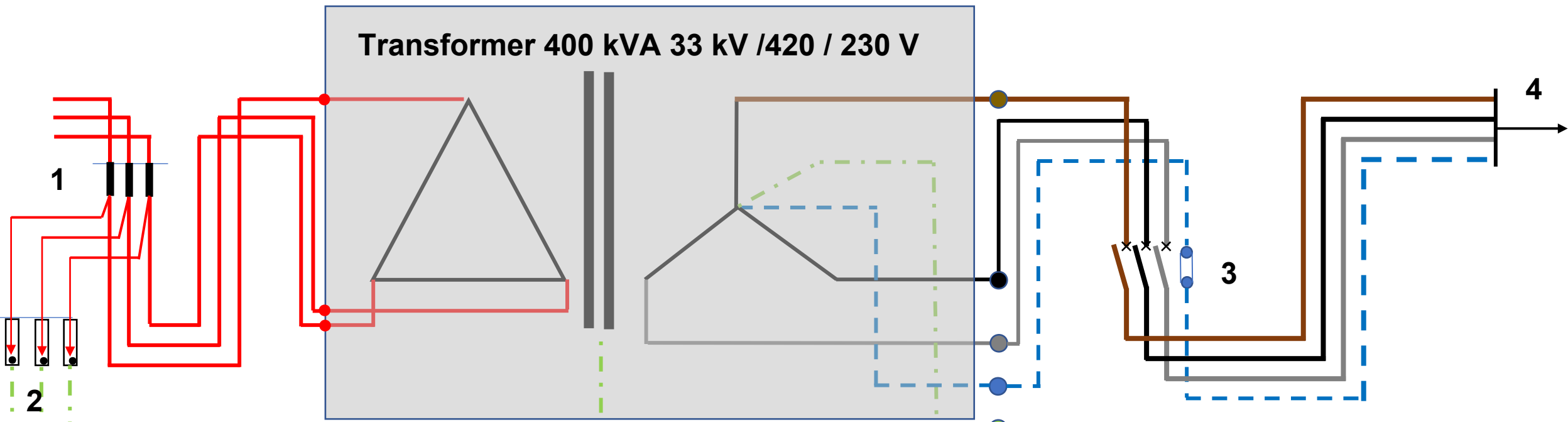
CE

Nynas Nytro Lyra X

Cu 180 kg Fe 750 kg 440 kg 1040 kg 1750 kg

Equal GSHT-system in Sogakope, High tension connection

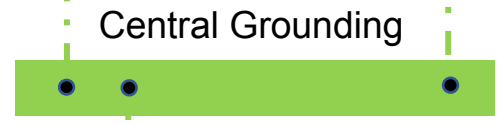




Legend:

- 1. High tension fuses 33 kV / 8 A**
- 2. Lightning and Overtension surges**
- 3. Transformer low tension high current switch**
- 4. Main connection to low tension distribution**

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 New high tension connection to the
 Hospital owed Transformer
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**High- low tension connection
Same GSHT-system as Sogakope**

**Generator – National grid
Change over**



**High tension
Connection
to the
Transformer**



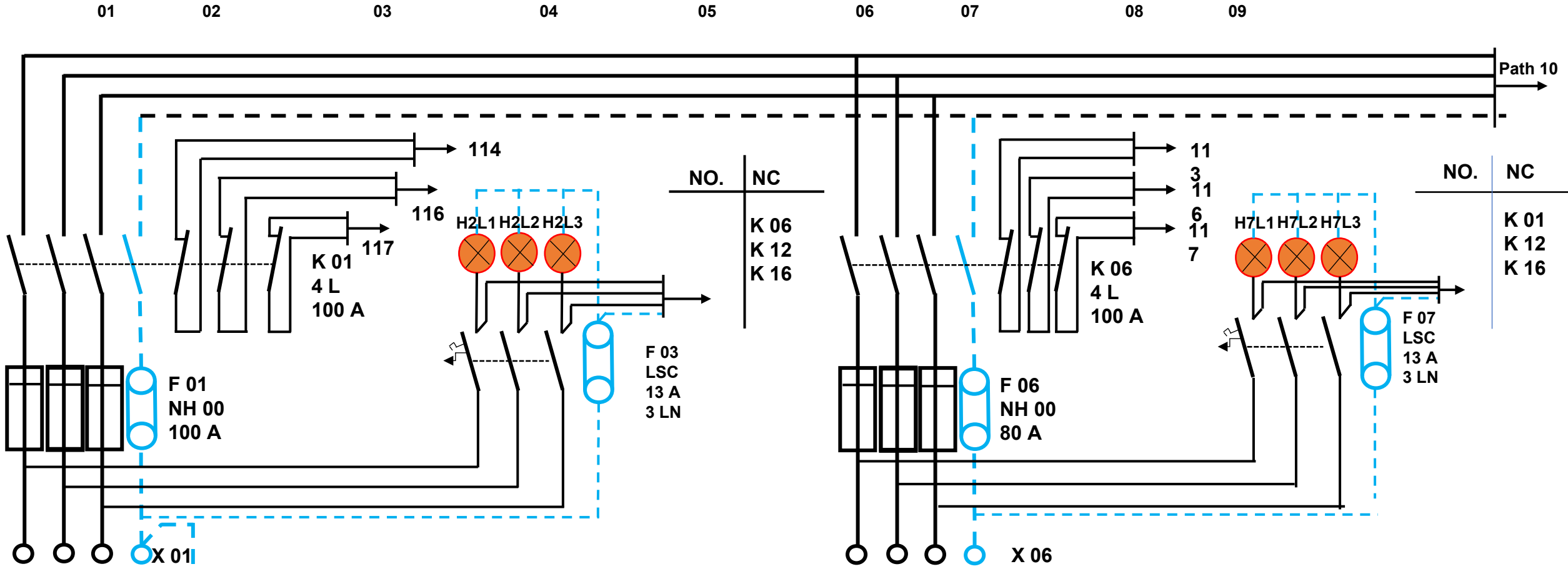
19.06.2020 04:17



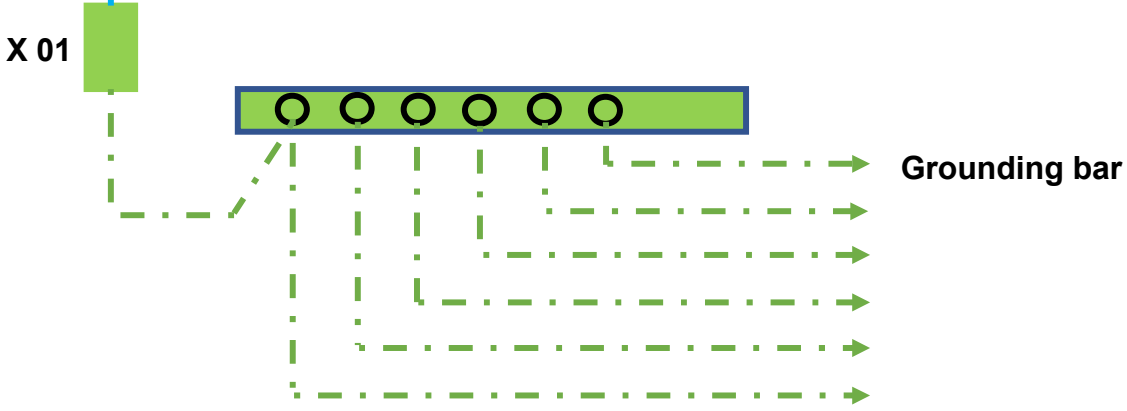
Powerhouse
Low tension
distribution

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HILLTOP FOCUS



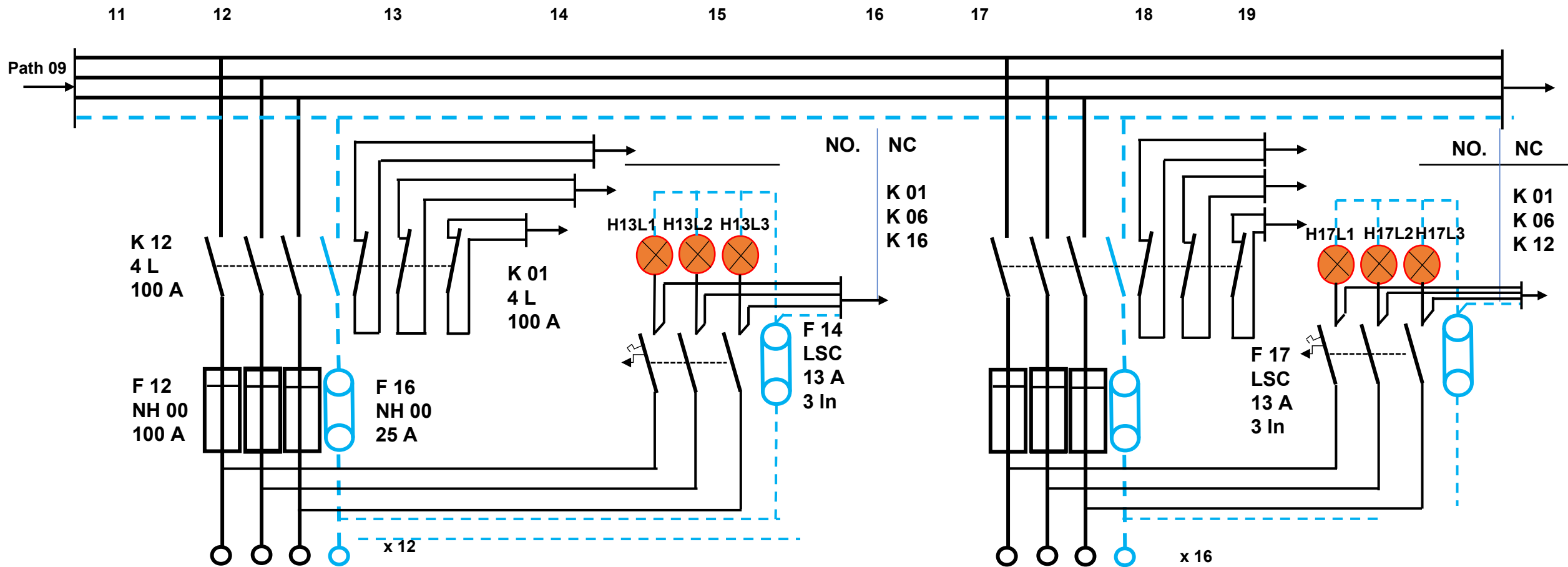
ECG- Grid



**from Genset-
Control Board**

**St. Anthony`s Catholic Hospital,
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Electrical main Supply
Provided by GSHT**

00 - 09

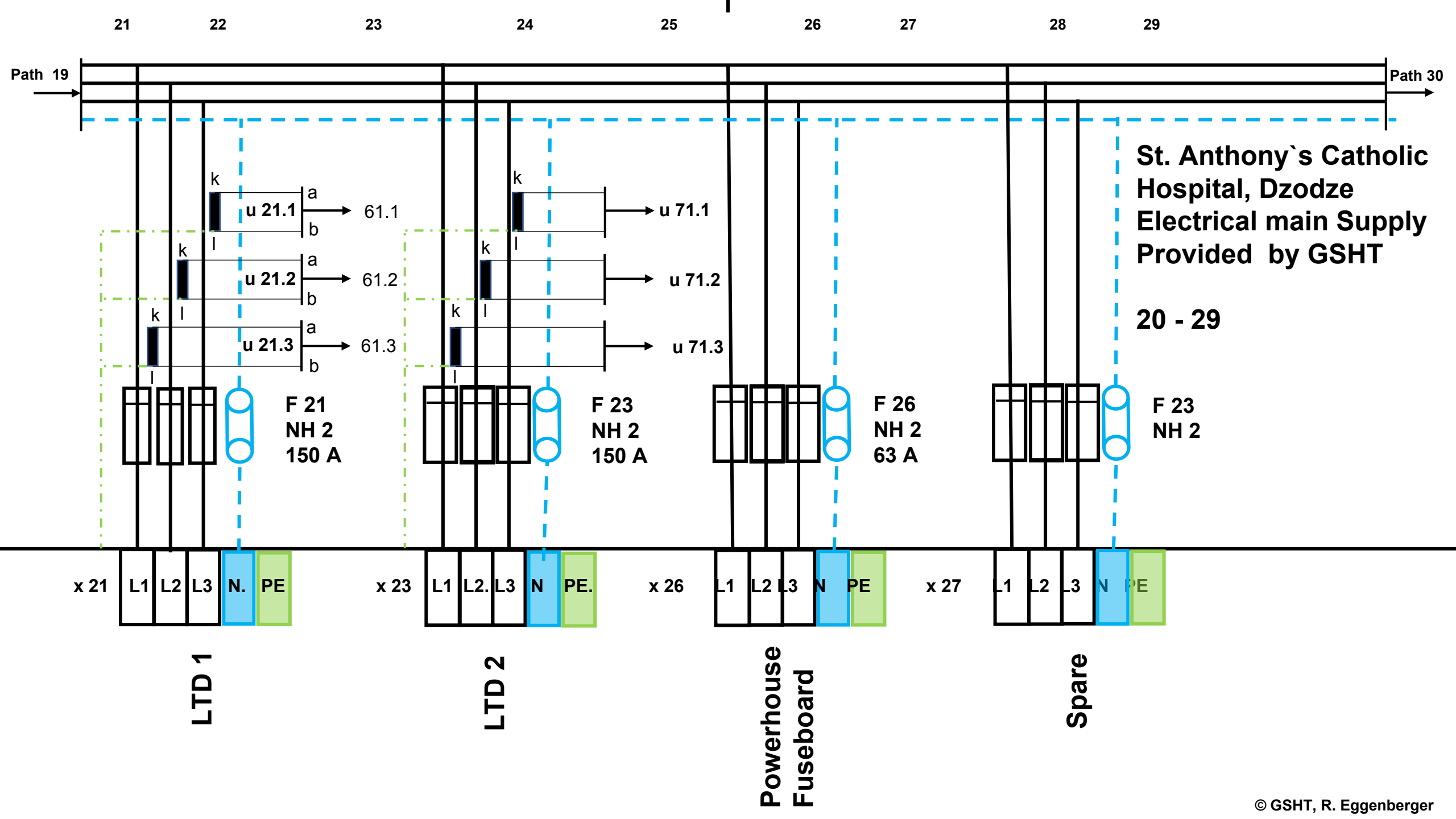


Genset 2

Genset spare

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Electrical main Supply
Provided by GSHT**

10 - 19



21

22

23

24

25

26

27

28

29

Path 19

Path 30

k

u 21.1

a

61.1

k

u 21.2

a

61.2

k

u 21.3

a

61.3

k

u 71.1

u 71.1

k

u 71.2

u 71.2

k

u 71.3

u 71.3

F 21
NH 2
150 A

F 23
NH 2
150 A

F 26
NH 2
63 A

F 23
NH 2

x 21

L1

L2

L3

N.

PE

LTD 1

x 23

L1

L2.

L3

N

PE.

LTD 2

x 26

L1

L2

L3

N

PE

Powerhouse
Fuseboard

x 27

L1

L2

L3

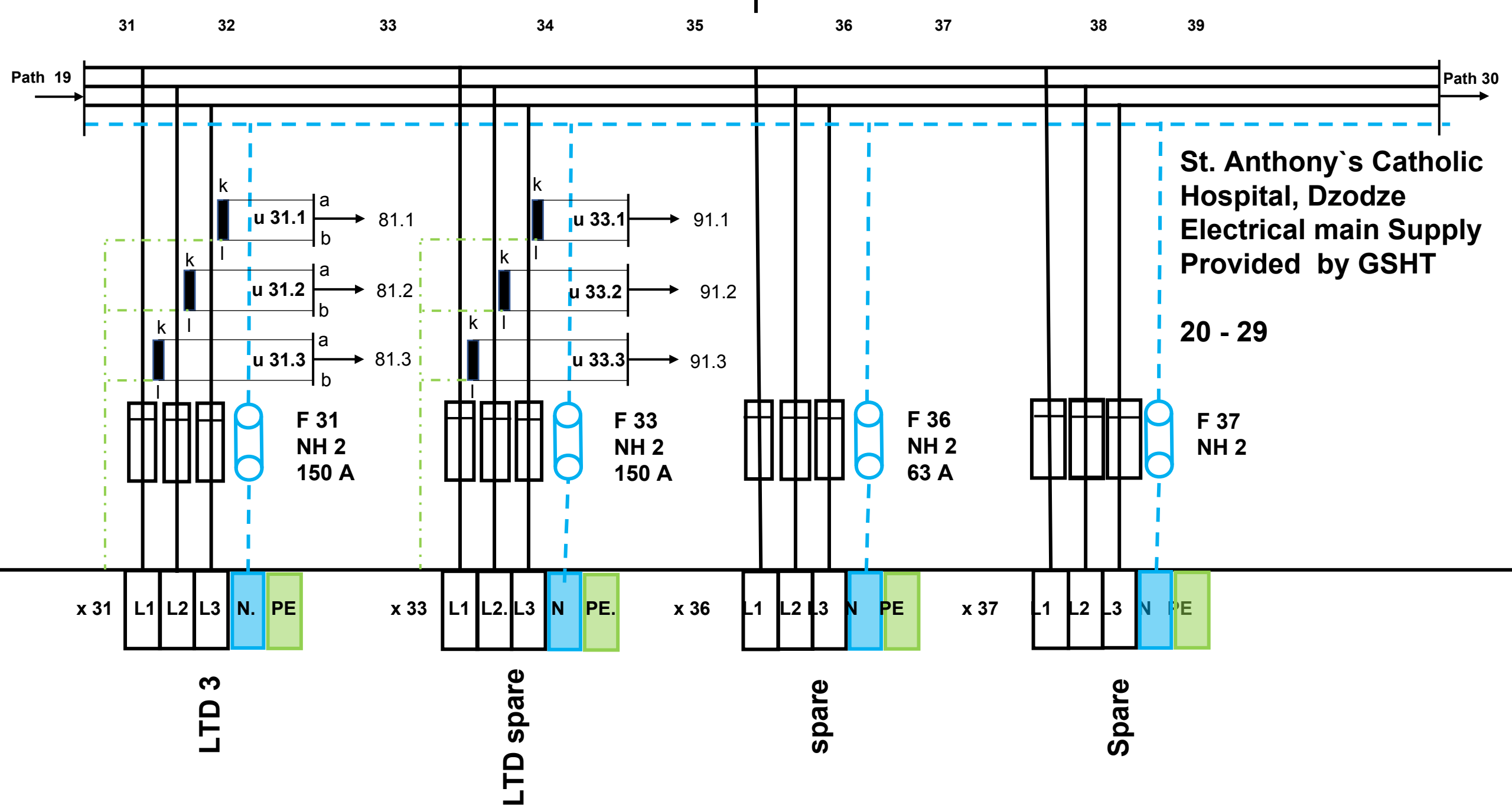
N

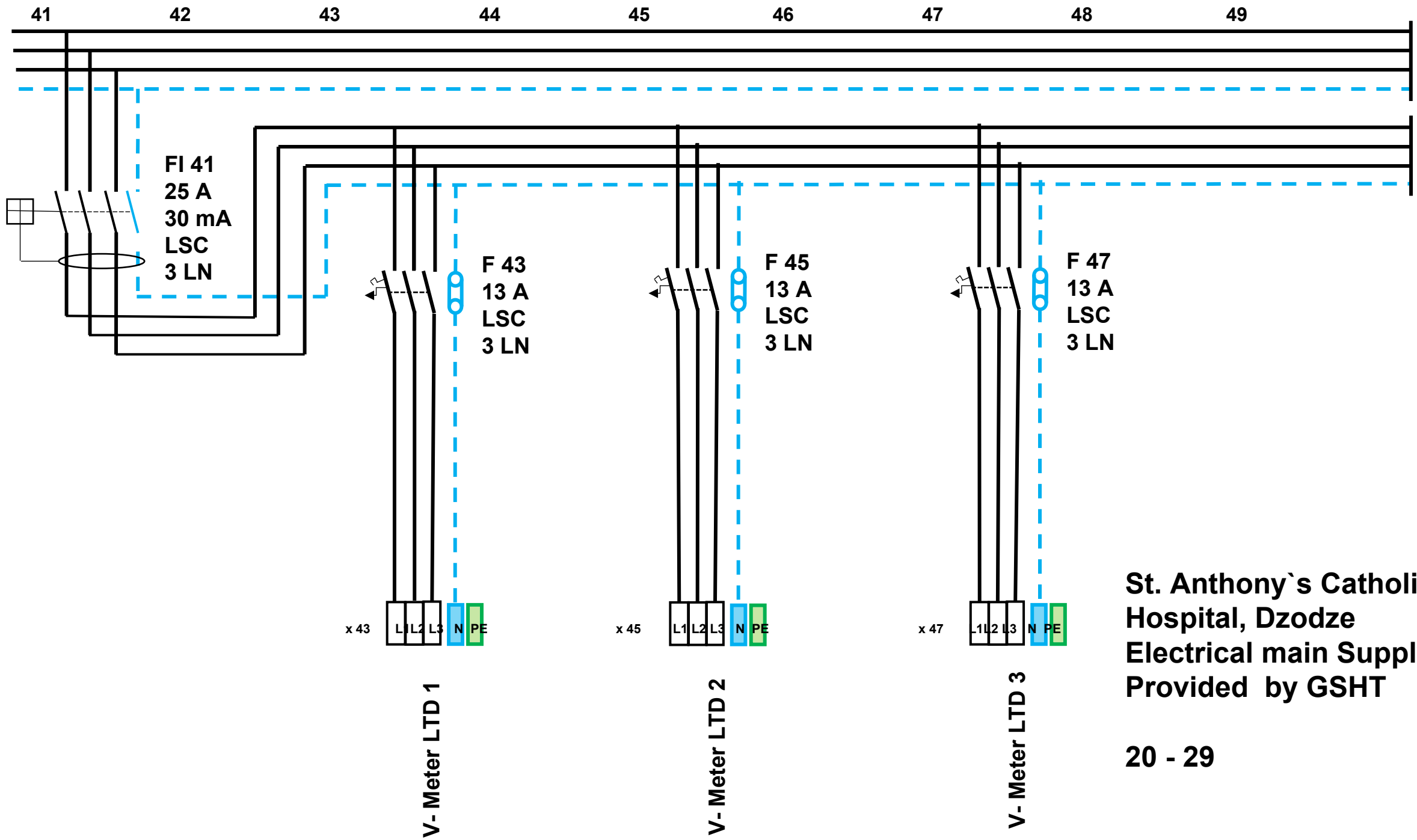
PE

Spare

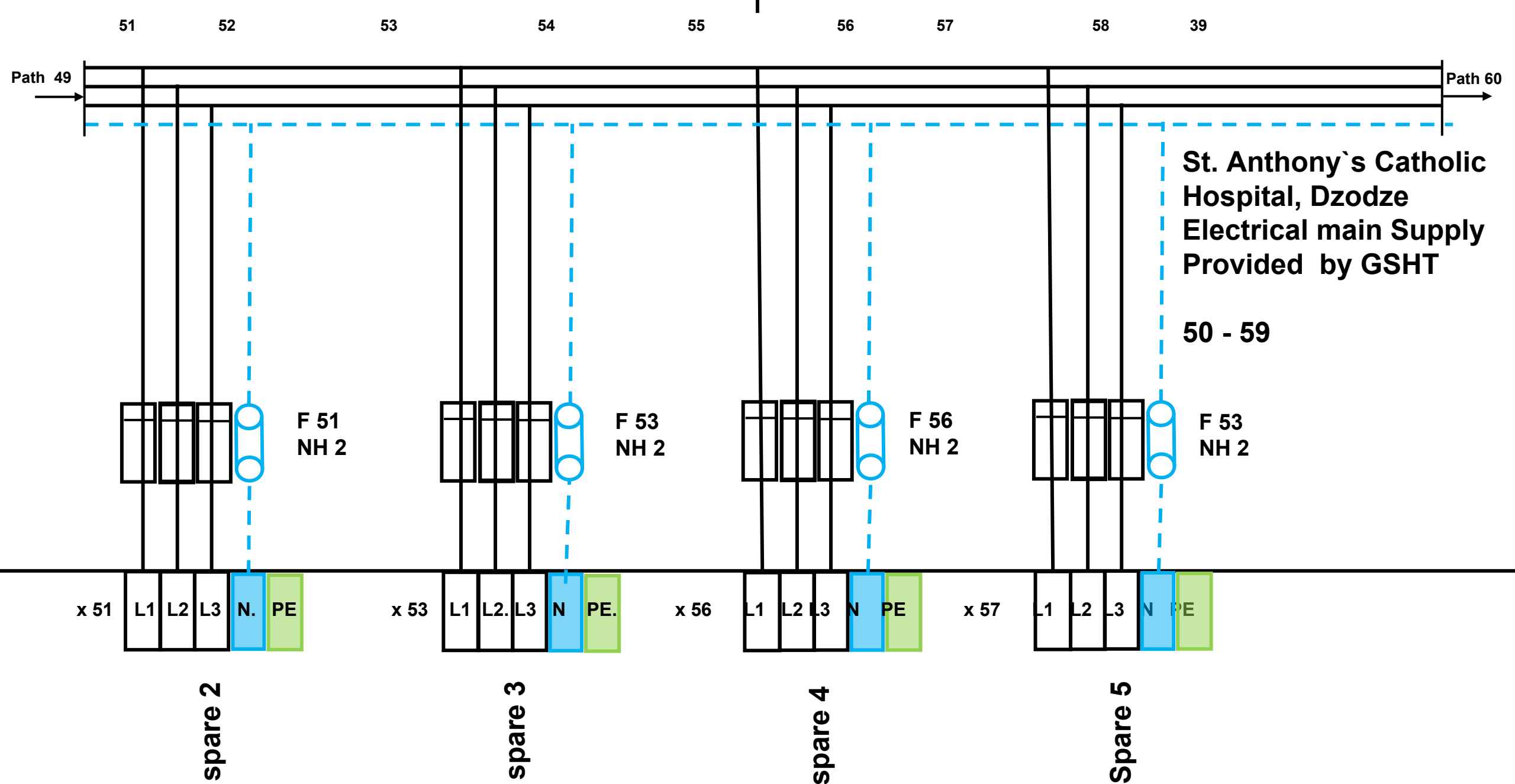
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20 - 29





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50 - 59

**F 51
NH 2**

**F 53
NH 2**

**F 56
NH 2**

**F 53
NH 2**

x 51 L1 L2 L3 N PE

x 53 L1 L2 L3 N PE

x 56 L1 L2 L3 N PE

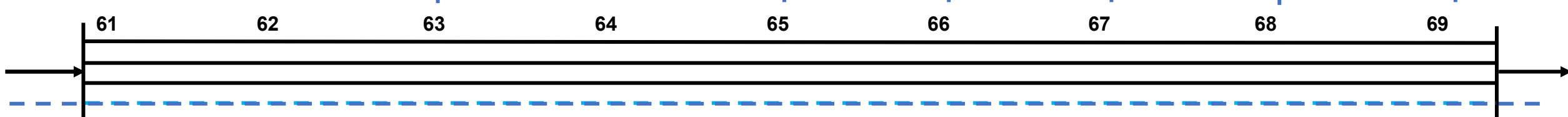
x 57 L1 L2 L3 N PE

spare 2

spare 3

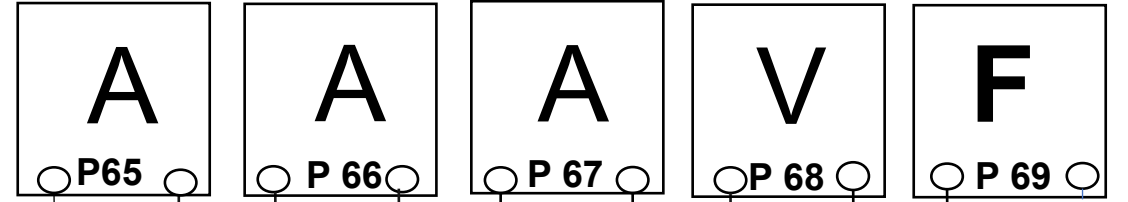
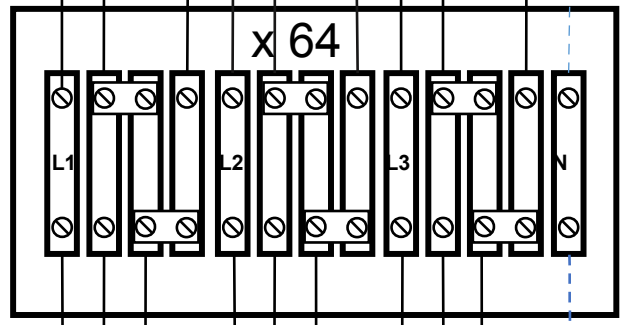
spare 4

Spare 5

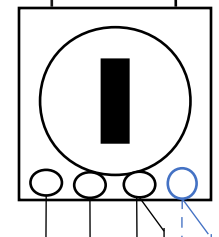


Grid 1 Metering

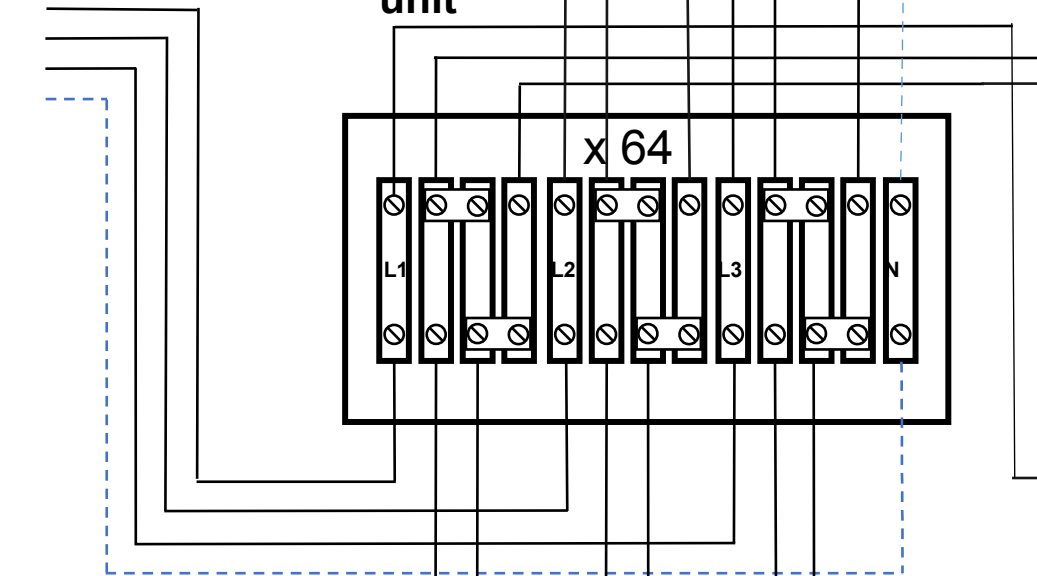
Meter unit



S 68
Volt meter
selector Switch



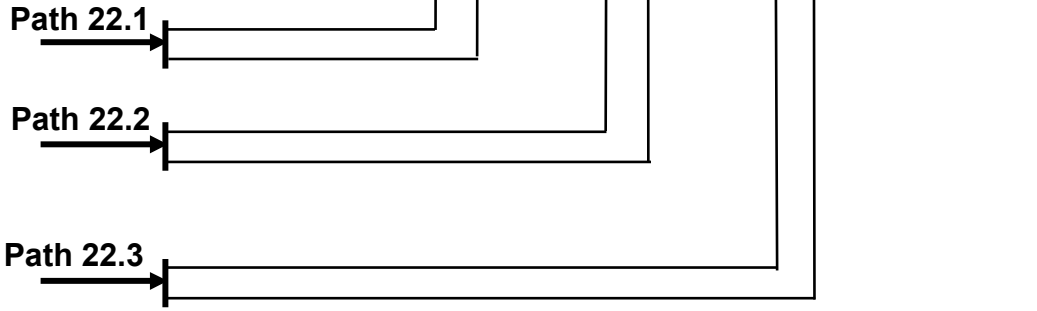
Path 41



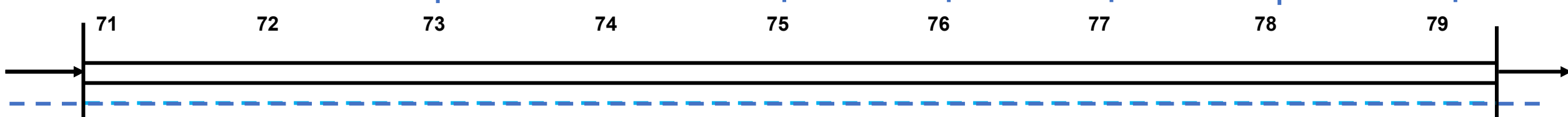
Path 22.1

Path 22.2

Path 22.3

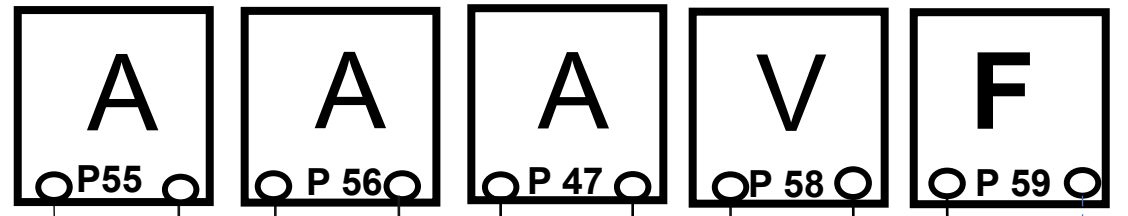
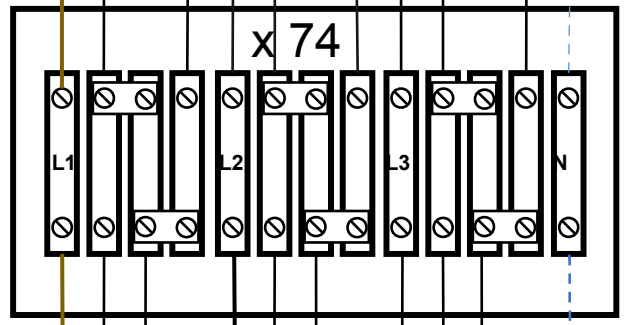


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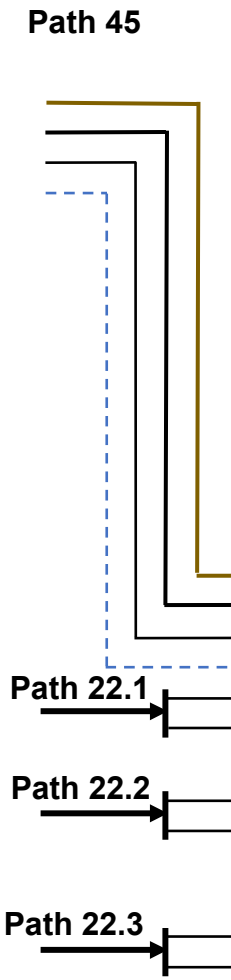
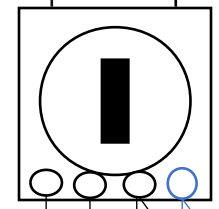


Grid 1 Metering

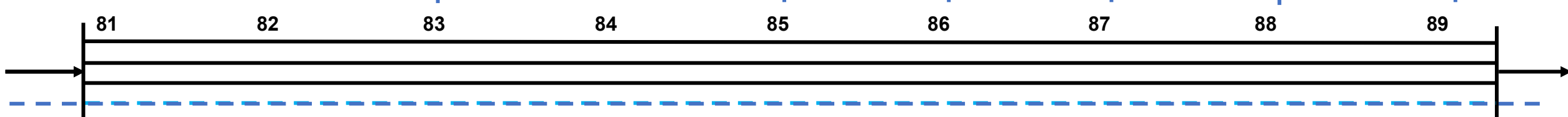
Meter unit



S 78
Volt meter
selector Switch

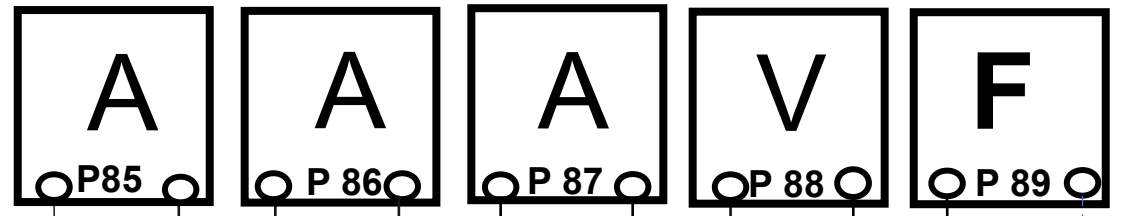
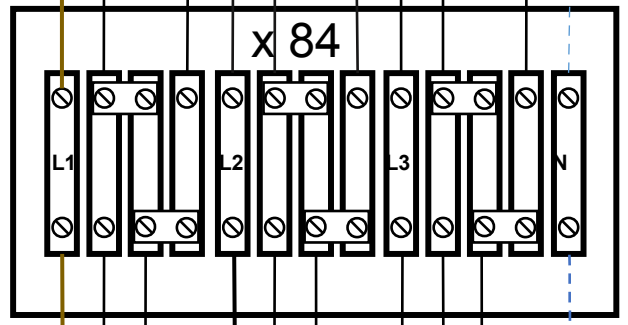


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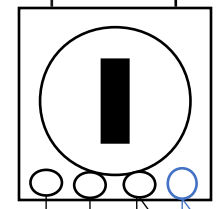


Grid 1 Metering

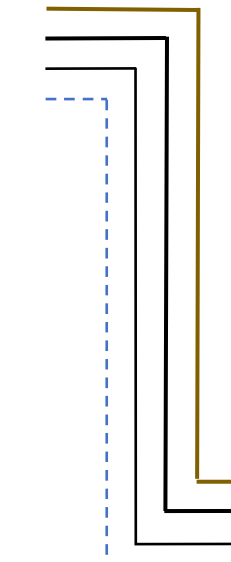
Meter unit



S 68
Volt meter
selector Switch



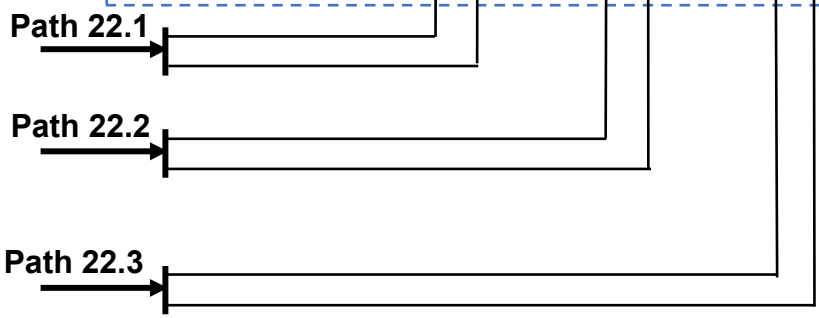
Path 47



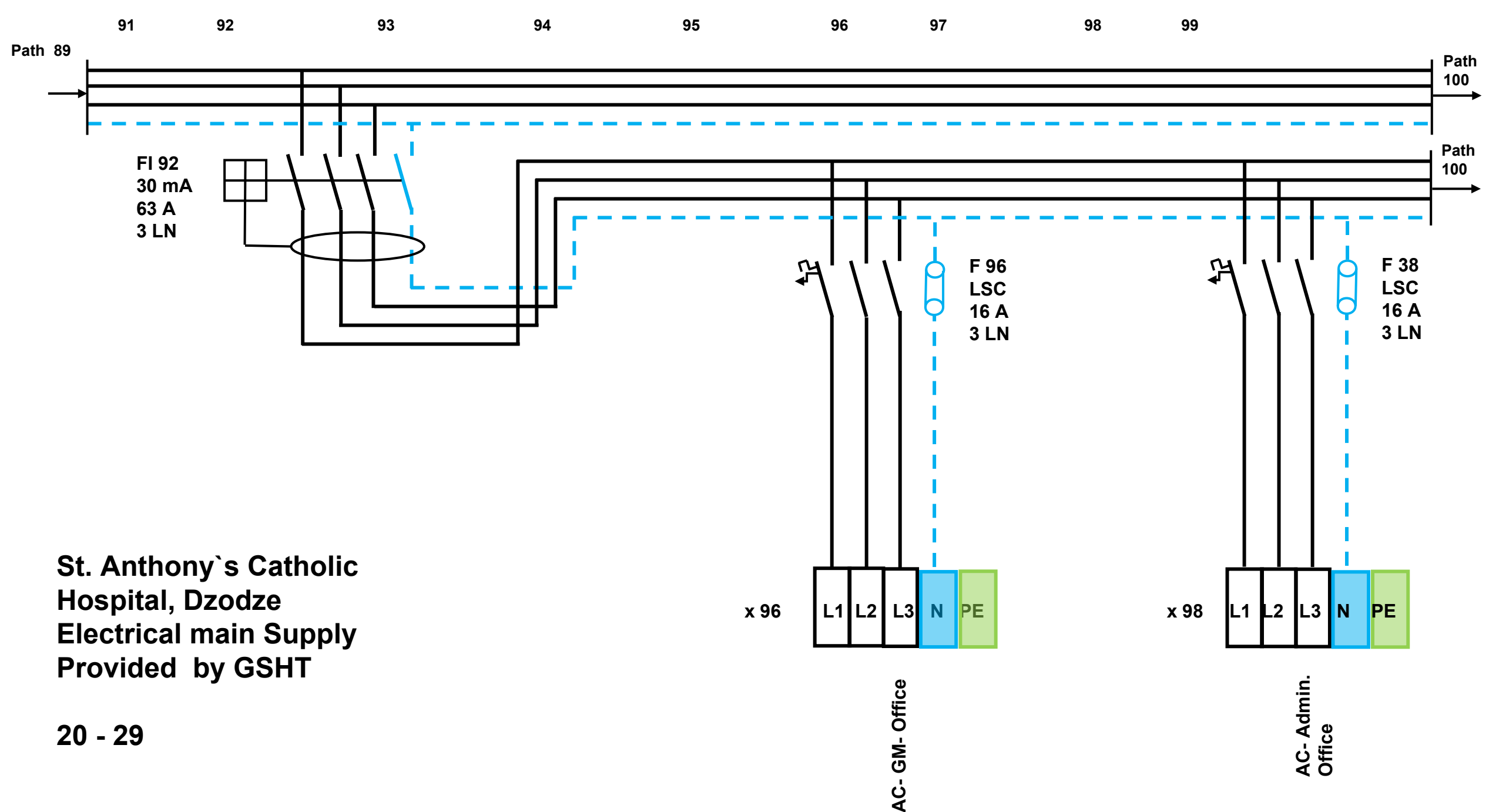
Path 22.1

Path 22.2

Path 22.3

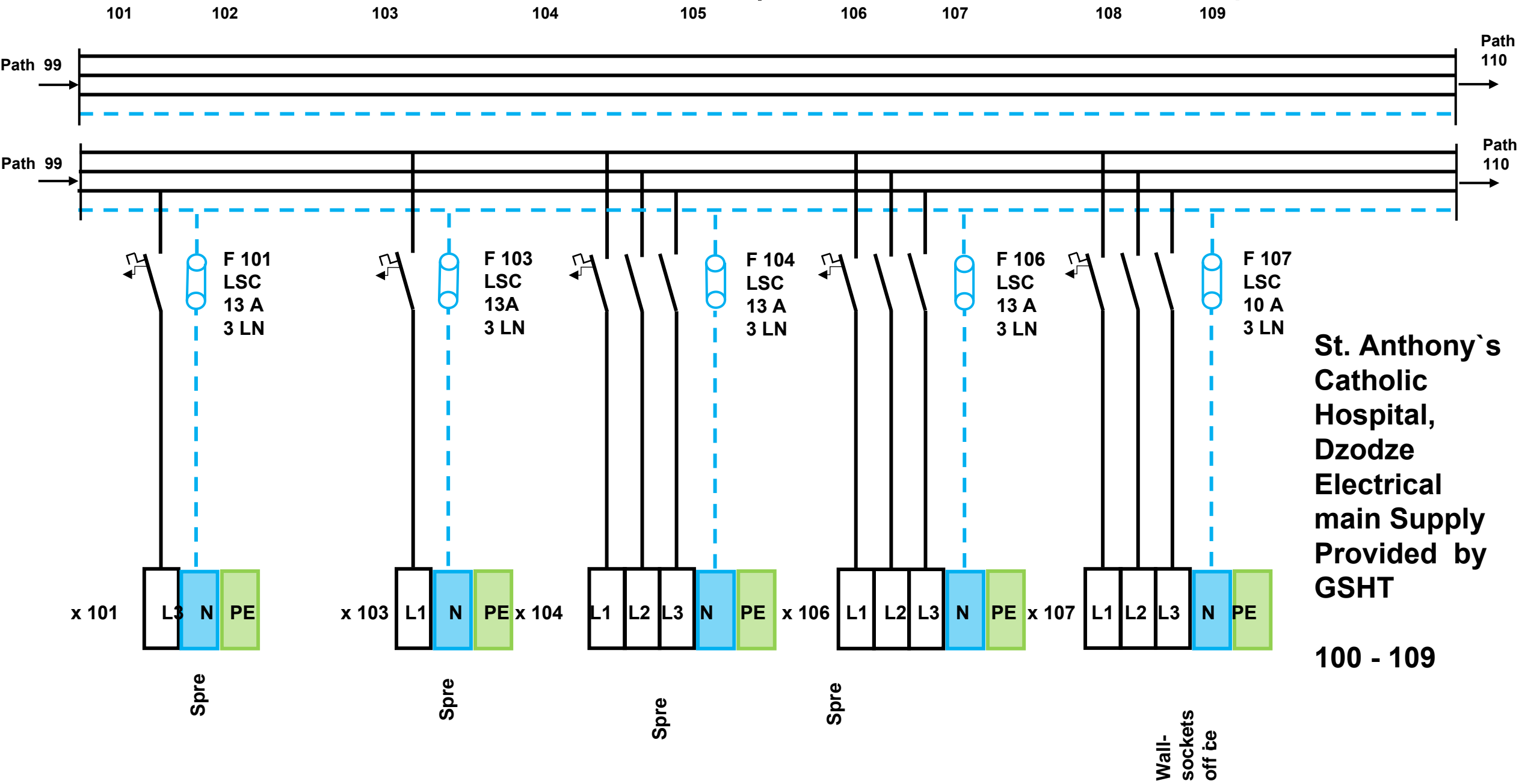


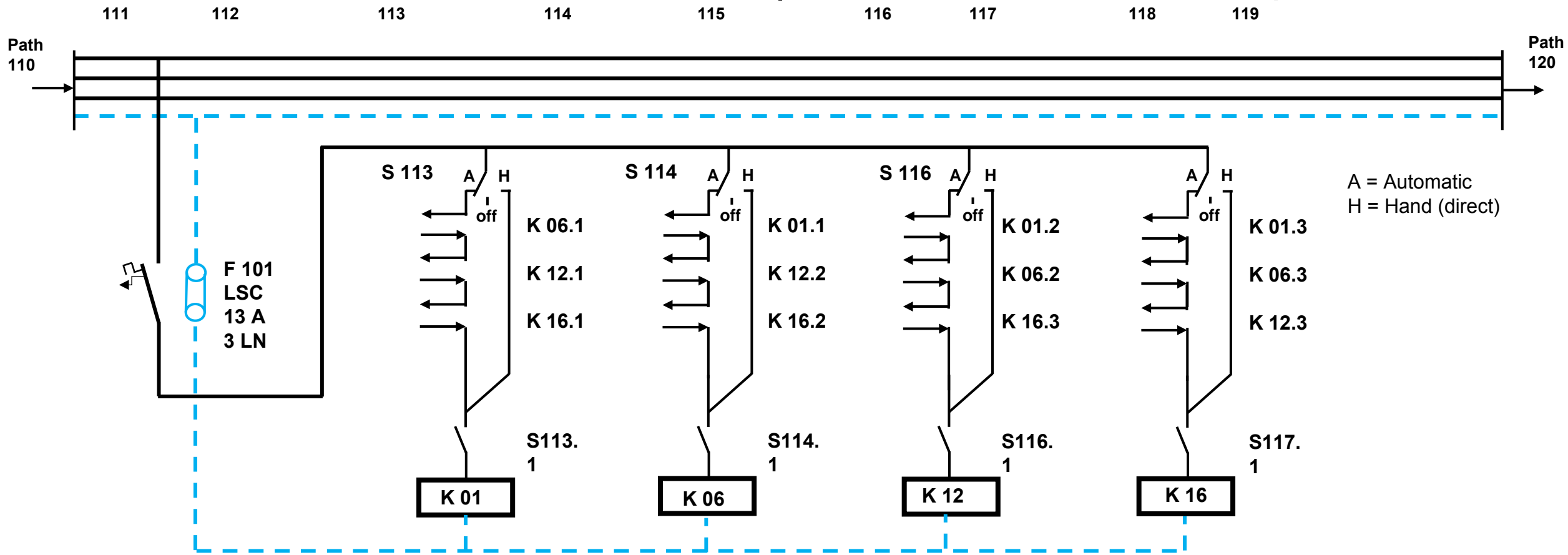
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ECG- Grid

Genset

Solar- Grid

UPS- Grid

121

122

123

124

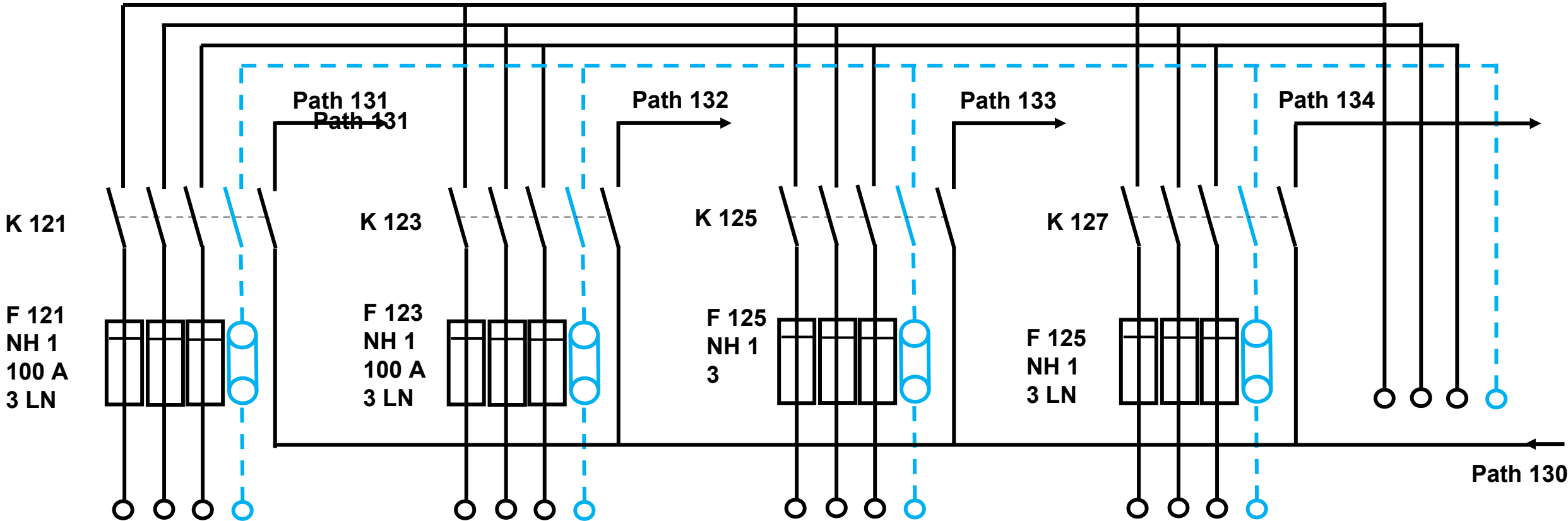
125

126

127

128

129



K 121

K 123

K 125

K 127

F 121
NH 1
100 A
3 LN

F 123
NH 1
100 A
3 LN

F 125
NH 1
3

F 125
NH 1
3 LN

Path 131
Path 131

Path 132

Path 133

Path 134

Path 130

x 121

x 123

x 125

x 127

x 129

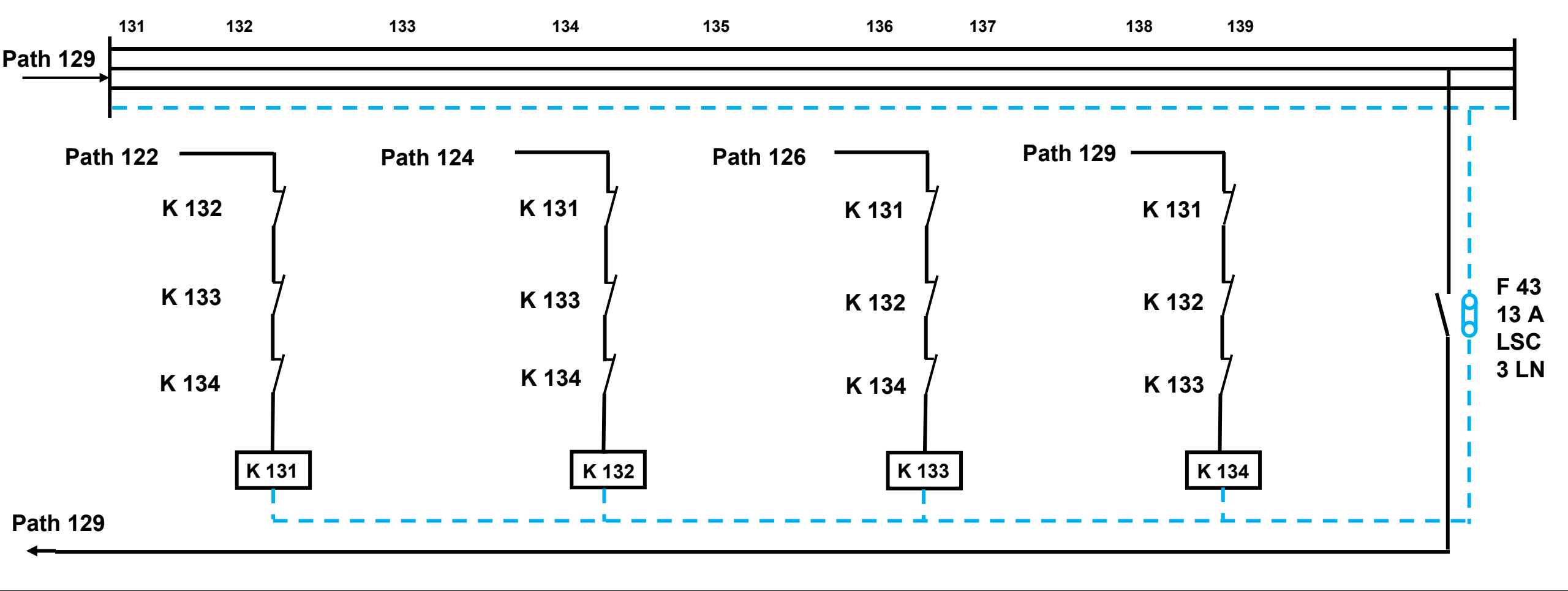
Genset 1

Genset 2

Genset spare

Genset spare

to Genset main



Genset 1

Genset 2

Genset spare 1

Genset spare 2

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130 - 139