KABARNET
132/33KV SUBSTATION
SITE PLAN AND GENERAL LAYOUTS

COVER

REFERENCE DRAWINGS

DRAWING NO.:	TITLE:

☐ APPROVED ☐ APPROVED WITH COMMENTS ☐ NOT APPROVED ☐ FOR INFORMATION

DATE:..... SIGNATURE/STAMP:..... PROJECT CONSULTANT

KETRACO Kenya Electricity Transmission Company Limited — KENYA ELECTRICITY TRANSMISSION COMPANY LTD

COLENCO Imagination. Geo-environmental Advisory — COLENCO CONSULTING LIMITED

PROJECT:
KENYA TRANSMISSION NETWORK IMPROVEMENT PROJECT (KTRNIP).

PROJECT DRAWING NO.:

	NAME:	DATE:
PREPARED:	NIL	
DRAWN:	F.J	15/05/2023
CHECKED:	V.JOSHI	15/05/2023
APPROVED:	S.DESHMUKH	15/05/2023

PROJECT NO.:

KABARNET 132/33kV SUBSTATION

TITLE:

COVER

REVISIONS

NO.	NAME	DATE

SCALE: 1:600 DWG NO.: REV.:

DESIGNATION OF	TITLE	REVISION			
1	COVERING SHEET	0	A		
2	INDEX	0	A		
3	GENERAL NOTES &LEGEND 132kV	0	A		
4	GENERAL NOTES &LEGEND 33kV	0	A		
5	GENERAL LAYOUT (DEMOLITION)	0	A		
6	GENERAL LAYOUT (OVERALL)	0	A		
7	GENERAL LAYOUT (CURRENT SCOPE)	0	A		
8	SECTION DRAWINGS A&B	0	A		
9	SECTION DRAWING C&D	0	A		

LIST OF DRAWINGS

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KENYA ELECTRICITY TRANSMISSION COMPANY LTD

COLENCO
innovation for sustainable future

COLENCO CONSULTING LIMITED

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LIST OF DRAWINGS

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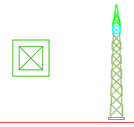
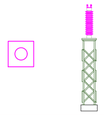
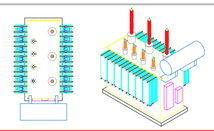
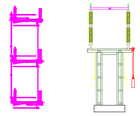
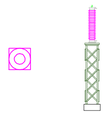
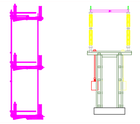
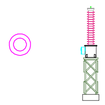
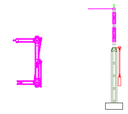
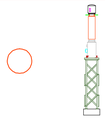
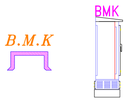
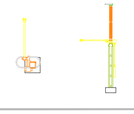
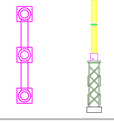
LEGEND

 GANTRY TOWER	 POST INSULATOR	 POWER TRANSFORMER 132/33kV	CABLE TRENCH
 DISCONNECTING SWITCH MOTOR OPERATED WITH TWO EARTH SWITCH MOTOR OPERATED	 LIGHTNING ARRESTER	STRING INSULATOR	ROAD
 DISCONNECTING SWITCH MOTOR OPERATED WITH ONE EARTH SWITCH MOTOR OPERATED	 CAPACITIVE VOLTAGE TRANSFORMER	EARTH MAT	STRANDED CONDUCTOR
 DISCONNECTING SWITCH MOTOR OPERATED	 CURRENT TRANSFORMER	 BAY MARSHALLING KIOSK	SHIELD WIRE
 EARTH SWITCH MOTOR OPERATED	 CIRCUIT BREAKER MOTOR OPERATED		CHAIN–LINK FENCE

MINIMUM AIR CLEARANCES

MINIMUM AIR CLEARANCES	132kV
RATED LIGHTNING IMPULSE WITHSTAND VOLTAGE	650 KV
RATED SWITCHING IMPULSE WITHSTAND VOLTAGE (PHASE–EARTH)	–
RATED SWITCHING IMPULSE WITHSTAND VOLTAGE (PHASE–PHASE)	–
BASIC VALUE (NON–FLASHOVER DISTANCE, INCLUDING SAFETY–MARGIN)	1.52m +10%
MINIMUM CLEARANCE BETWEEN LOWEST LIVE PART AND GROUND (TOTAL SAFETY ZONE)	3.77m
CLEARANCE BETWEEN GROUND AND THE INSULATOR'S BASE	2.5m
VERTICAL CLEARANCE WORKING ZONE	3m
HORIZONTAL CLEARANCE WORKING ZONE	3.27m
CLEARANCE OF CONDUCTORS ABOVE THE MAIN ROADS	8.5m
PHASE SPACING OF RIGID BUSBAR (CENTER LINE TO CENTER LINE)	2.5m
PHASE SPACING OF OVERSPAN (CENTER LINE TO CENTER LINE)	3.5m
PHASE SPACING OF FLEXIBLE CONDUCTOR BETWEEN EQUIPMENT (CENTER LINE TO CENTER LINE)	3.5m
POWER FREQUENCY WITHSTAND VOLTAGE	275kV
VERTICAL CLEARANCE BETWEEN LIVE CONDUCTOR AND SHIELD	3m

ABBREVIATION

ABBR.	EQUIPMENT
CB	CIRCUIT BREAKER
CT	CURRENT TRANSFORMER
CVT	CAPACITIVE VOLTAGE TRANSFORMER
DS	DISCONNECTING SWITCH
DSE	DISCONNECTING SWITCH WITH EARTHING SWITCH
EM	EARTH MAT
ES	EARTH SWITCH
GA	GANTRY TOWER
LA	LIGHTNING ARRESTER
BMK	BAY MARSHALLING KIOSK
PI	POST INSULATOR
SC	SURGE COUNTER
SI	STRING INSULATOR
TW	TOWER

NOTE:

1– ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SPECIFIED.

2– 132kV SWITCHYARD LAYOUT PLAN & SECTION ARE TYPICAL REPRESENTATION & PRELIMINARY.

3– ALL CLEARANCES ARE AS PER IEC GUIDELINES.

4– LOCATION OF MARSHALLING BOX SHOWN IN DRAWING ARE TENTATIVE AND SHALL BE SUITABLY LOCATED CONSIDERING ACTUAL SITE CONDITION.

5– ALL THE EQUIPMENT & BUSES IN THE SOW WILL BE PROTECTED FROM LIGHTNING STRIKE BY MEANS OF SHIELD WIRE.

6– DISCONNECTOR SWITCH WILL HAVE MECHANICAL AND ELECTRICAL INTERLOCK WITH THE RELEVANT EARTH SWITCH.

– 7ELECTRICAL INTERLOCK WILL BE PROVIDED BETWEEN DISCONNECTORS & CIRCUIT BREAKER SUCH THAT DISCONNECTOR WILL BE OPEN AND CLOSED WHEN RESPECTIVE CIRCUIT BREAKER IS IN OFF POSITION.

8– THIS IS CONCEPTUAL DRAWING FOR TENDER PURPOSE. HOWEVER IT IS MANDATORY TO FOLLOW THE REQUIREMENT OF KETRACO STANDARD.

9– ALL CABLE TRENCHES' SIZES AND ROUTES ARE TENTATIVE AND SUBJECTED TO CABLE TRENCH LAYOUT & DETAIL DOCUMENT AND CLIENT/ CONSULTANT'S APPROVAL.

10– CONTRACTOR SHALL VISIT THE SITE AND REQUIRED MODIFICATIONS/ DEMOLITIONS ARE IN THE CONTRACTOR'S RESPONSIBILITY.

11– CONTRACTOR SHALL VISIT THE SITE TO ENSURE THAT SUFFICIENT SPACE IS AVAILABLE FOR EXISTING CABLE TRENCHES TO IMPLEMENT NEW CABLES

12– ALL CLEARANCES WILL BE FINALIZED AFTER APPROVAL OF INSULATION COORDINATION DOCUMENT IN EPC DETAIL DESIGN STAGE.

13– CONSIDERING THE SIGNIFICANT LEVEL DIFFERENCE BETWEEN THE EDGE/ FENCE TO BE DEMOLISHED AND THE COVERING THE NEW SCOPE, THE CONTRACTOR SHALL SELF–APPRAISE ON THIS ASPECT WHICH MAY INFLUENCE DESIGN DECISION ON BUSBAR EXTENSION, EARTHWORKS AND DRAINAGE WORKS.

14– THE CONTRACTOR SHOULD STUDY FOUNDATION DRAWINGS/ SITE CONDITION CAREFULLY BEFORE FIRMING UP ON THE FOUNDATION DESIGN CONSIDERING THE 200mm. THICK CONCRETE RAFT FOUNDATION OVER THE ENTIRE SUBSTATION SWITCHYARD.

15– WHEREVER THE CABLE TRENCH CROSSES THE ROAD, AN UNDER ROAD CONCRETE CABLE DUCT SHALL BE CONSIDERED IN GENERAL LAYOUT, TOGHETHER WITH PROVIDING THE ELABORATE DESIGN DURING EPC DETAIL DESIGN STAGE.

16– THE LIGHTNING PROTECTION IS INDICATIVE ONLY AND THE CONTRACTOR SHALL PROVIDE CALCULATIONS.

17– THE LIGHTNING AND POWER FREQUENCY WITHSTAND VOLTAGE WILL BE GUIDED BY AN INSULATION COORDINATION STUDY IN ACCORDANCE TO IEC.

GENERAL NOTES & LEGENDS OF 132KV EQUIPMENT

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APPROVED:	S.DESHMUKH	15/05/2025

PROJECT NO: KABARNET 132/33kV SUBSTATION

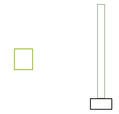
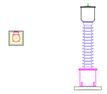
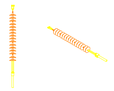
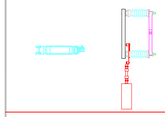
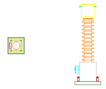
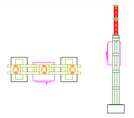
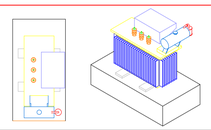
TITLE: GENERAL NOTES & LEGENDS OF 132KV EQUIPMENT

REVISIONS

NO.	NAME	DATE

SCALE: 1:600 DWG NO. REV.:

LEGEND

 GANTRY TOWER	 VOLTAGE TRANSFORMER	 STRING INSULATOR	ROAD
 DISCONNECTING SWITCH MOTOR OPERATED WITH ONE EARTH SWITCH MOTOR OPERATED	 CURRENT TRANSFORMER	BAY MARSHALLING KIOSK	STRANDED CONDUCTOR
DISCONNECTING SWITCH MOTOR OPERATED	 CIRCUIT BREAKER MOTOR OPERATED	CABLE TRENCH	SHIELD WIRE
POST INSULATOR	CUTOFF FUSE		CHAIN–LINK FENCE
LIGHTNING ARRESTER	 AUXILIARY TRANSFORMER		

MINIMUM AIR CLEARANCES

MINIMUM AIR CLEARANCES	33kV
RATED LIGHTNING IMPULSE WITHSTAND VOLTAGE	170 KV
RATED SWITCHING IMPULSE WITHSTAND VOLTAGE (PHASE–EARTH)	–
RATED SWITCHING IMPULSE WITHSTAND VOLTAGE (PHASE–PHASE)	–
BASIC VALUE (NON–FLASHOVER DISTANCE, INCLUDING SAFETY–MARGIN)	0.32m +10%
MINIMUM CLEARANCE BETWEEN LOWEST LIVE PART AND GROUND (TOTAL SAFETY ZONE)	3m
CLEARANCE BETWEEN GROUND AND THE INSULATOR'S BASE	2.5m
VERTICAL CLEARANCE WORKING ZONE	3m
HORIZONTAL CLEARANCE WORKING ZONE	3m
CLEARANCE OF CONDUCTORS ABOVE THE MAIN ROADS	7.5m
PHASE SPACING OF RIGID BUSBAR (CENTER LINE TO CENTER LINE)	1m
PHASE SPACING OF OVERSPAN (CENTER LINE TO CENTER LINE)	1m
PHASE SPACING OF FLEXIBLE CONDUCTOR BETWEEN EQUIPMENT (CENTER LINE TO CENTER LINE)	1m
POWER FREQUENCY WITHSTAND VOLTAGE	70kV
VERTICAL CLEARANCE BETWEEN LIVE CONDUCTOR AND SHIELD	2m

ABBREVIATION

ABBR.	EQUIPMENT
CB	CIRCUIT BREAKER
CT	CURRENT TRANSFORMER
VT	VOLTAGE TRANSFORMER
DS	DISCONNECTING SWITCH
DSE	DISCONNECTING SWITCH WITH EARTHING SWITCH
EM	EARTH MAT
ES	EARTH SWITCH
GA	GANTRY TOWER
LA	LIGHTNING ARRESTER
BMK	BAY MARSHALLING KIOSK
PI	POST INSULATOR
SC	SURGE COUNTER
SI	STRING INSULATOR
TW	TOWER
MH	MANHOLE

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17– THE LIGHTNING AND POWER FREQUENCY WITHSTAND VOLTAGE WILL BE GUIDED BY AN INSULATION COORDINATION STUDY IN ACCORDANCE TO IEC.

18–EXISTING 100kVA AUXILIARY TRANSFORMER HAS TO BE DISASSEMBLED AND DELIVERED TO CLIENT. A NEW 250kVA AUXILIARY TRANSFORMER HAS TO BE REPLACED.

GENERAL NOTES & LEGENDS OF 33KV EQUIPMENT

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APPROVED:	S.DESHMUKH	15/05/2025

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REVISIONS

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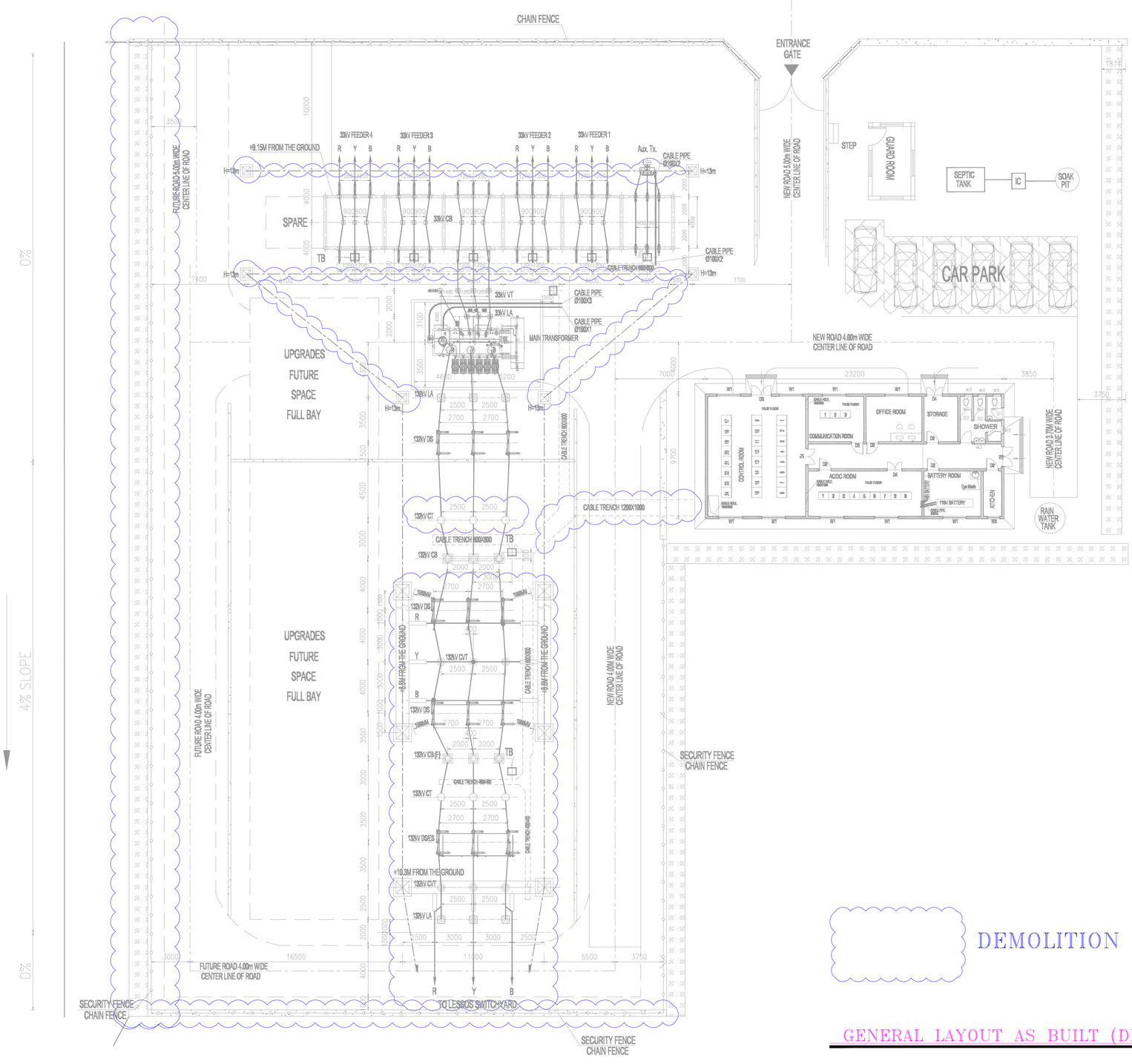

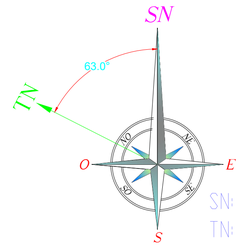

DEMOLITION

GENERAL LAYOUT AS BUILT (DEMOLITION)

REFERENCE DRAWINGS

DRAWINGS NO.:	TITLE:

APPROVED | APPROVED WITH COMMENTS | NOT APPROVED | FOR INFORMATION

DATE:..... SIGNATURE/STAMP:.....
PROJECT CONSULTANT

KENYA ELECTRICITY TRANSMISSION COMPANY LTD

COLENCO CONSULTING LIMITED

PROJECT:

KENYA TRANSMISSION NETWORK IMPROVEMENT PROJECT (KTRNIP).

PROJECT DRAWING NO.			
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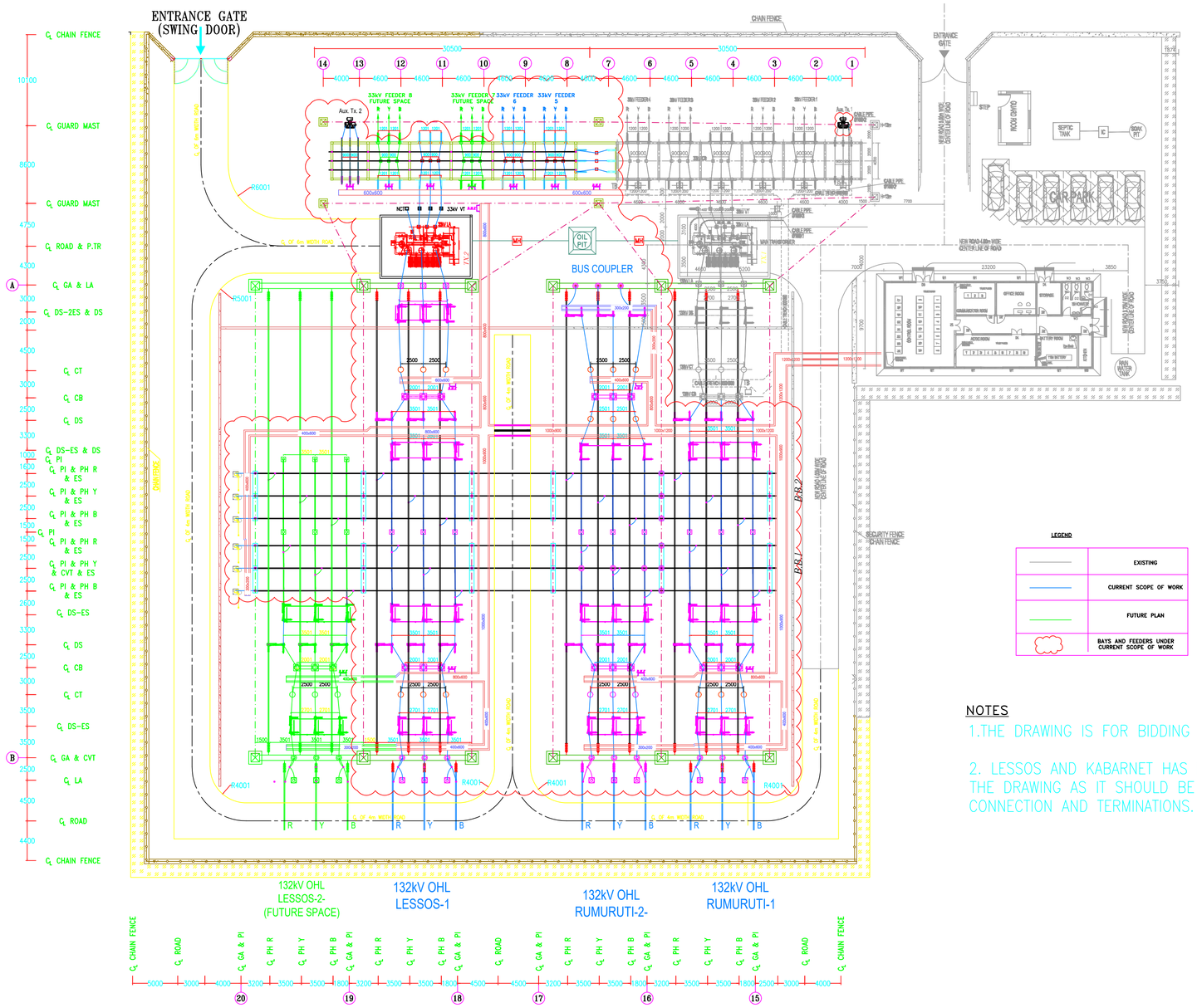
PREPARED:	NIL		KABARNET 132/33kV SUBSTATION
DRAWN:	F.J	15/05/2025	TITLE:
CHECKED:	V.JOSHI	15/05/2025	GENERAL LAYOUT AS BUILT (DEMOLISION)
APPROVED:	S. DESHMUKH	15/05/2025	

REVISIONS		
NO.	NAME	DATE

SCALE: 1:600 DWG NO. KABARNET-DEMOLITION -002 REV.:


ENTRANCE GATE
(SWING DOOR)
CHAIN FENCE
ENTRANCE GATE
30500
30500
14 13 12 11 10 9 8 7 6 5 4 3 2 1
33kV FEEDER 8
FUTURE SPACE
33kV FEEDER 7
FUTURE SPACE
33kV FEEDER 6
33kV FEEDER 5
33kV FEEDER4
33kV FEEDER3
33kV FEEDER2
33kV FEEDER1
Aux. Tx. 2
Aux. Tx. 1
CABLE PIPE 600mm ø
R6001
R5001
NCTO
33kV VT
33kV LA
OIL PIT
BUS COUPLER
MH
TB
CABLE TRENCH
CABLE PIPE 300mm ø
33kV TR
33kV CB
33kV CT
33kV DS
33kV ES
33kV PI
33kV DS-ES
33kV DS-ES & DS
33kV PI & PH R & ES
33kV PI & PH Y & ES
33kV PI & PH B & ES
33kV DS-ES & PI
33kV PI & PH R & ES
33kV PI & PH Y & CVT & ES
33kV PI & PH B & ES
33kV DS-ES
33kV DS
33kV CB
33kV CT
33kV DS-ES
33kV GA & CVT
33kV LA
33kV ROAD
33kV CHAIN FENCE
CHAIN FENCE
ROAD
GA & PI
PH R
PH Y
PH B
GA & PI
PH R
PH Y
PH B
GA & PI
ROAD
GA & PI
PH R
PH Y
PH B
GA & PI
PH R
PH Y
PH B
GA & PI
ROAD
CHAIN FENCE
5000 3000 4000 3200 3500 3500 800 3200 3500 3500 800 4500 4500 3200 3500 3500 800 3200 3500 3500 800 2500 3000 4000
20 19 18 17 16 15
132kV OHL
LESSOS-2-
(FUTURE SPACE)
132kV OHL
LESSOS-1
132kV OHL
RUMURUTI-2-
132kV OHL
RUMURUTI-1
R Y B R Y B R Y B R Y B
R4001
R4001
R4001
R4001
A
B
A
B
BB1
BB2
SECURITY FENCE
CHAIN FENCE
NEW ROAD 14m WIDE
CENTER LINE OF ROAD
STEP
CAR PARK
SEPTIC TANK
IC
SOAK PIT
OFFICE ROOM
STORE
KITCHEN
WATER ROOM
TOILET
TOILET
WATER TANK
23200
3850
7000
9700
1300x1200
1000x1200
1000x1000
1000x800
1000x600
1000x400
800x800
800x600
800x400
600x600
600x400
400x400
300x300
2500 2500
3501 3501
2201 2201
1500
3000
4600
4000
2700
3200
3700
7700
1200
2000
3100
4500
3300
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1000
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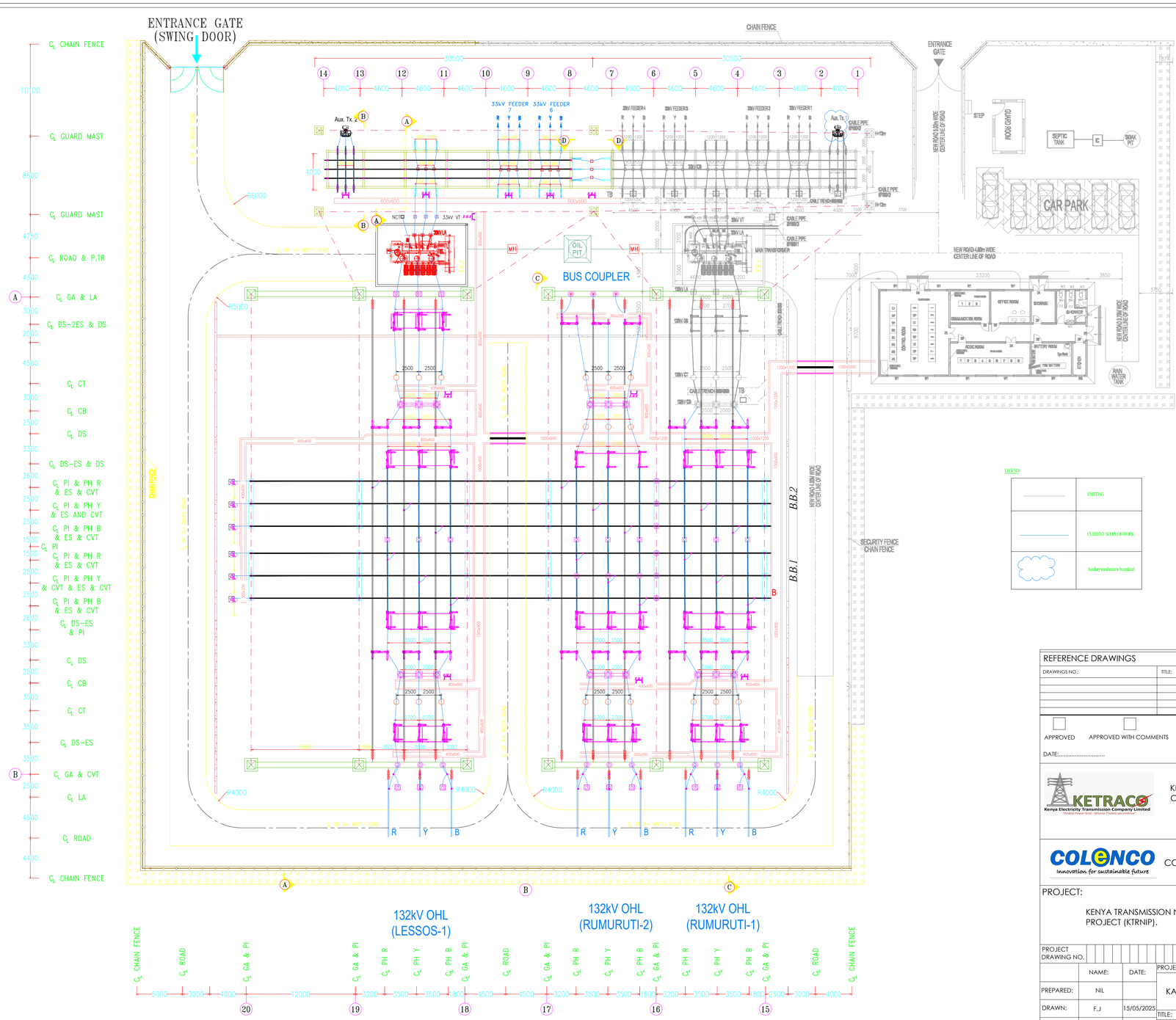


NOTES

1. THE DRAWING IS FOR BIDDING PURPOSE ONLY

2. LESSOS AND KABARNET HAS BEEN SWAPPED IN THE DRAWING AS IT SHOULD BE DURING THE CONNECTION AND LINE TERMINATIONS.

GENERAL LAYOUT (SCOPE OF WORK)

REFERENCE DRAWINGS

DRAWINGS NO.:	TITLE:

☐ APPROVED ☐ APPROVED WITH COMMENTS ☐ NOT APPROVED ☐ FOR INFORMATION

DATE:..... SIGNATURE/STAMP:.....PROJECT CONSULTANT

KENYA ELECTRICITY TRANSMISSION COMPANY LTD

COLENCO CONSULTING LIMITED

PROJECT:

KENYA TRANSMISSION NETWORK IMPROVEMENT PROJECT (KTRNIP).

	NAME:	DATE:
PREPARED:	NIL	
DRAWN:	F.J	15/05/2025
CHECKED:	V.JOSHI	15/05/2025
APPROVED:	S. DESHMIKH	15/05/2025

PROJECT DRAWING NO.

PROJECT NO:

KABARNET 132/33kV SUBSTATION

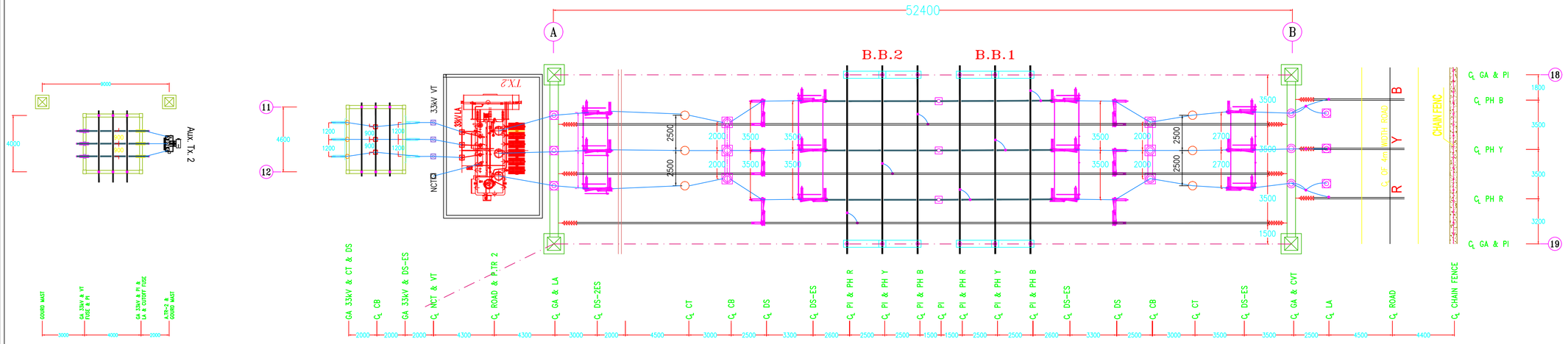
TITLE:

GENERAL LAYOUT (SCOPE OF WORK)

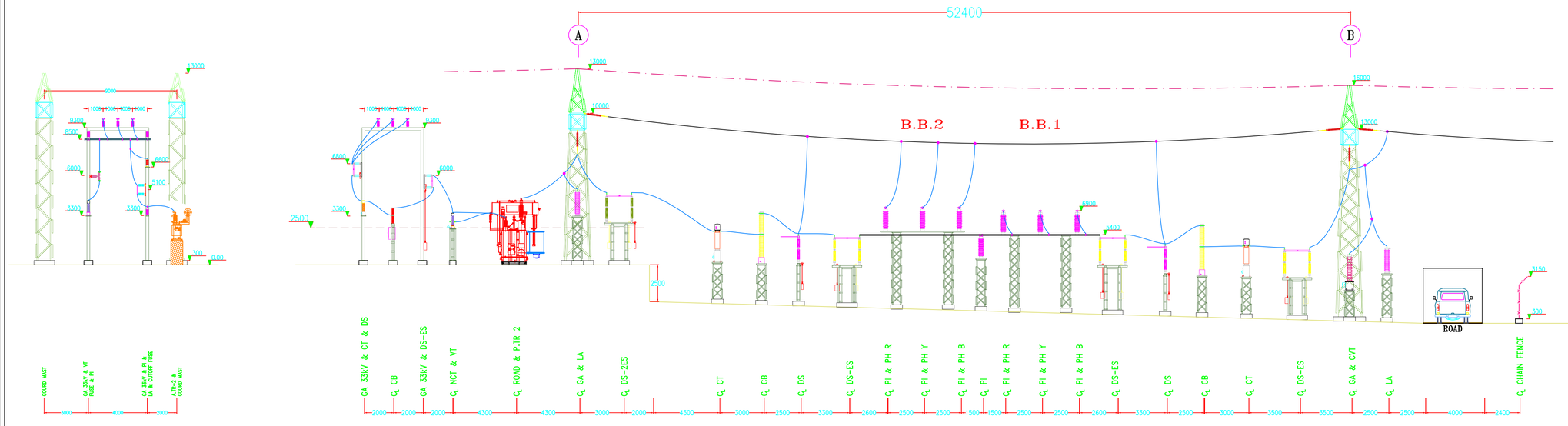
REVISIONS

NO.	NAME	DATE

SCALE: 1:600 DWG NO. KABARNET-LAYOUT-SW-002 REV.:



SECTION 'B–B'



SECTION 'A–A'

REFERENCE DRAWINGS	
DRAWINGS NO.:	TITLE:

☐ APPROVED ☐ APPROVED WITH COMMENTS ☐ NOT APPROVED ☐ FOR INFORMATION

DATE:..... SIGNATURE/STAMP:..... PROJECT CONSULTANT

KETRACO — Kenya Electricity Transmission Company Limited

KENYA ELECTRICITY TRANSMISSION COMPANY LTD

COLENCO — innovation for sustainable future

COLENCO CONSULTING LIMITED

PROJECT:

KENYA TRANSMISSION NETWORK IMPROVEMENT PROJECT (KTRNIP).

PROJECT DRAWING NO.

	NAME:	DATE:
PREPARED:	NIL	
DRAWN:	F.J	15/05/2025
CHECKED:	V.JOSHI	15/05/2025
APPROVED:	S.DESHMUKH	15/05/2025

PROJECT NO:

KABARNET 132/33kV SUBSTATION

TITLE:

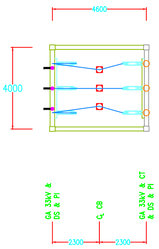
SECTION 'A–A' & 'B–B'

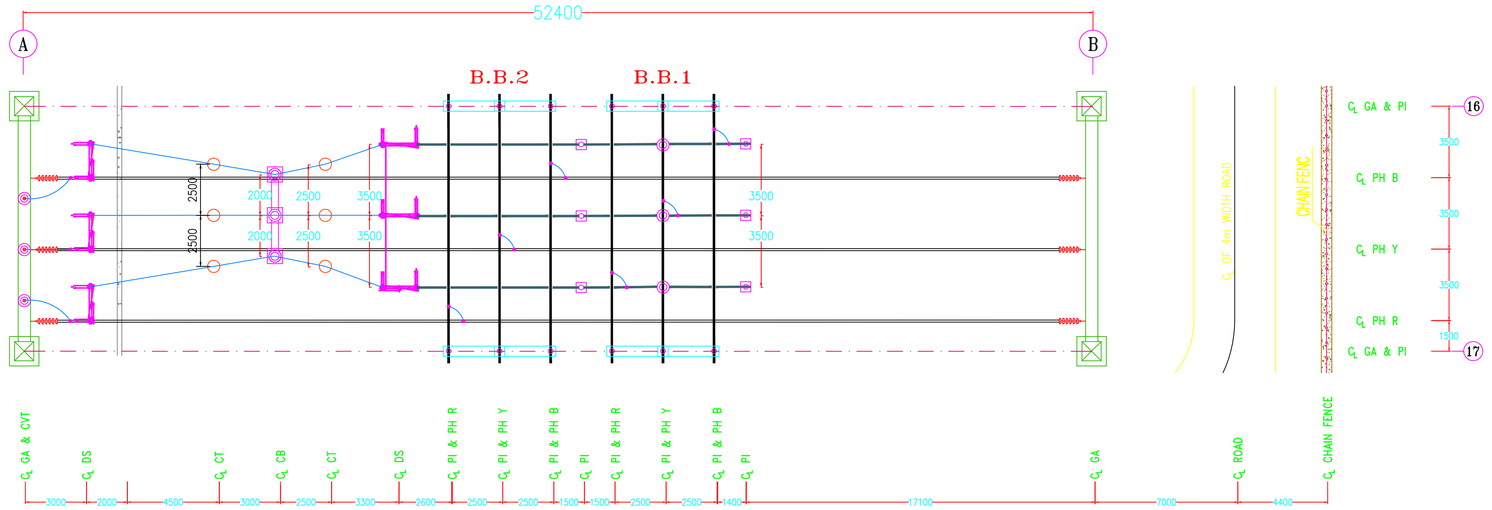
REVISIONS

NO.	NAME	DATE

SCALE: 1:600 DWG NO. REV.:

1:150 A1





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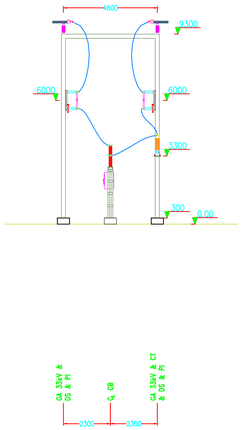

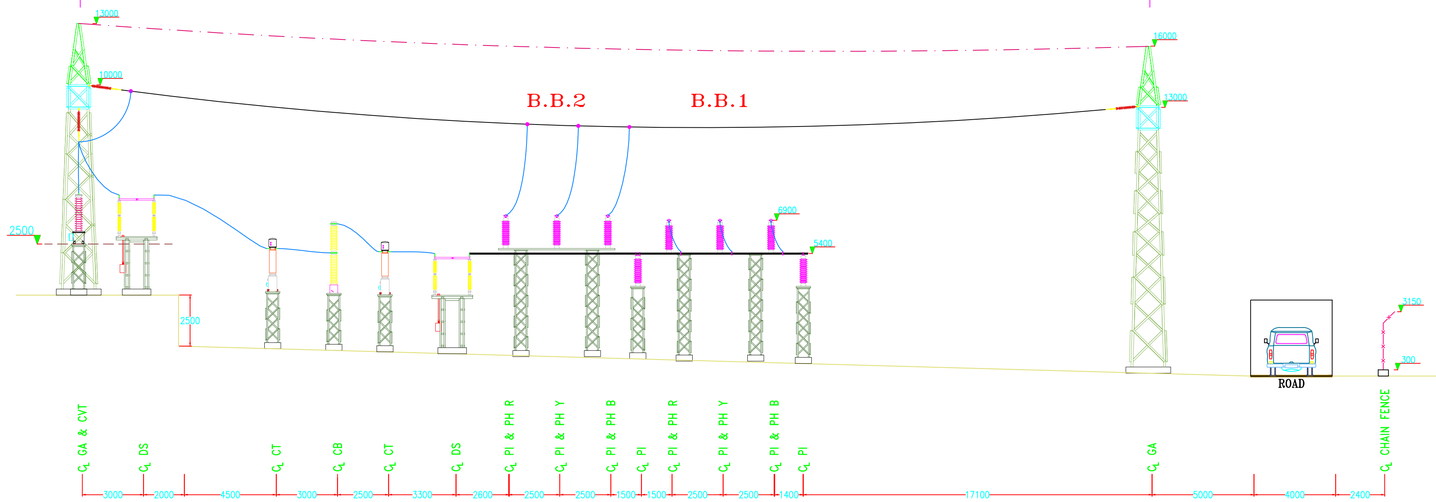

SECTION 'C–C'

SECTION 'C–C' & 'D–D'

1:150 A1

11

REFERENCE DRAWINGS

DRAWINGS NO.:	TITLE:

☐ APPROVED ☐ APPROVED WITH COMMENTS ☐ NOT APPROVED ☐ FOR INFORMATION

DATE:..... SIGNATURE/STAMP:..... PROJECT CONSULTANT

KETRACO Kenya Electricity Transmission Company Limited "Stronger Power Grid" "Mfumo wa Stima Imara"

KENYA ELECTRICITY TRANSMISSION COMPANY LTD

COLENCO Innovation for sustainable future

COLENCO CONSULTING LIMITED

PROJECT:

KENYA TRANSMISSION NETWORK IMPROVEMENT PROJECT (KTRNIP).

PROJECT DRAWING NO.

	NAME:	DATE:
PREPARED:	NIL	
DRAWN:	F.J	15/05/2025
CHECKED:	V.JOSHI	15/05/2025
APPROVED:	S.DESHMUKH	15/05/2025

PROJECT NO: KABARNET 132/33kV SUBSTATION

TITLE: SECTION 'C–C' & 'D–D'

REVISIONS NO.	NAME	DATE

SCALE: 1:600 DWG NO. REV.: