PROPOSED REHABILITATION OF GALMA RIVER BASIN IRRIGATION SYSTEM

GALMA, ZARIA L.G.A

KADUNA STATE

COOPI-Cooperazionale Internazionale

EFAB ESTATE NO 19 LONDON STREET
KARSANA, GWARIMPA, ABUJA

OCTOBER, 2026

GENERAL CONSTRUCTION NOTES

GENERAL

A0. AREA OF REHABILITATION IS GALMA 3 BELOW BISARA RIVER, AREAS THAT WILL BE AFFECTED BY ACTIVITIES OUTSIDE GALMA 3 WILL BE ADRESSED

A1. ALL CONSTRUCTION DRAWINGS AND SKETCHES MUST BE READ IN CONJUNCTION WITH RELEVANT PROFESSION AND SPECIALIST DRAWINGS. WHERE DISCREPANCIES OCCUR, THESE ARE TO BE BROUGHT TO THE ATTENTION OF THE PROFESSIONAL FOR RESOLUTION PRIOR TO EFFECTING CONSTRUCTION.

A2. WORK TO FIGURED DIMENSIONS ONLY. ALL DIMENSIONS ARE TO BE CHECKED ON SITE.

A3. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.

A4. REER TO PUMP HOUSE DRAWING FOR ALL AVAILABLE DETAILS PERTAINING TO PUMP HOUSE SECURITY HOUSE AND INVERTER ROOM

A5. THE STRUCTURAL ENGINEER SHALL NOT BE HELD LIABLE/RESPONSIBLE FOR ANY DRAWINGS NOT SUPERVISED BY HIM.

REINFORCEMENT AND STEEL

B1. STEEL TO HAVE A MINIMUM YIELD STRESS OF BAR AS DESIGNATED: Y = 410 N/mm2

BARS DESIGNATED "Y" TO BE THE DEFORMED TYPE BARS. ACCORDING TO BS 4449 AND BARS ARE IN MILLIMETER SIZE.

"Y" DENOTES DEFORMED HIGH BOND HOT-ROLLED HIGH YIELD STRESS REINFORCEMENT TO BS 4449 AND 4461.

B2. NOTATIONS USED AS FOLLOWS: 11 - Y10 - 09 - 150 c/c B, IMPLY

11 - NUMBER OF BARS

Y10 - TYPE AND DIAMETER OF BARS

09 - BAR MARK

150 C/C - SPACING OF BARS IN MILLIMETRES

B - LOCATION OF BAR E.G. B - BOTTOM, T - TOP.

B3. WHERE HOLES, FIXING, ETC. ARE REQUIRED, BARS MAY BE DISPLACED SLIGHTLY TO ACCOMODATE THESE BUT THEY MUST NOT BE CUT OR REMOVED.

B4. WHERE TOP REINFORCEMENTS ARE REQUIRED ON SLABS, AND THERE EXISTS NO SPECIFICATIONS ON THE SLAB DETAILS, THE FOLLOWING GUIDES SHALL BE FOLLOWED:

B4.1. FOR MAIN TOP BARS, USE DIA. 12mm BARS SPACED AT 150mm c/c

B4.2. FOR SECONDARY TOP BARS, USE DIA, 12mm BARS SPACED AT 200mm c/c

B5. STRUCTURAL STEEL MEMBERS AND CONNECTION SHALL COMPLY TO GRADE S355

ALL MEMBERS AND CONNECTIONS SHALLL BE INSPECTED AND APPROVED BEFORE ERECTION

FRAMES SHALL BE ALIGNED, LEVELD AND PLUMBED BEFORE FINAL TIGHTNING

NO FRAME SHALL BE LEFT UNSTABLE DURING OR AFTER CONSTRUCTION

STEEL SURFACES SHALL BE PREPARED, DOUBLE COATED AND FINAL WHITE OIL PAINT

B6. ALL BAR MUST BE TNT

CONCRETE

D1. ALL STRUCTURAL CONCRETE TO BE GRADE .....25..... IN FOUNDATIONS.

ALL STRUCTURAL CONCRETE TO BE GRADE .....25..... IN COLUMNS.

ALL STRUCTURAL CONCRETE TO BE GRADE .....25..... IN ALL OTHER SUPERSTRUCTURAL ELEMENTS, UNLESS OTHERWISE STATED.

D2. MINIMUM CEMENT AGGREGATE RATIO TO BE 1:6. MAXIMUM SIZE OF COARSE AGGREGATE TO BE 20MM

D3. ALL AGGREGATE TO BE SUITABLY GRADED AND APPROVED BY THE ENGINEER PRIOR TO USE IN CONSTRUCTION.

D4. ALL CONCRETE TO BE SUITABLY AND FULLY COMPACTED AND CURED IN AN APPROVED MANNER TO THE SATISFACTION OF THE ENGINEER.

D5. MINIMUM CONCRETE COVER TO MAIN REINFORCEMENT TO BE AS FOLLOWS:

FOUNDATION : 50MM,

BEAMS : ..... 25MM, COLUMNS : 25MM,

UNLESS OTHERWISE STATED. SLABS : 20MM,

D6. ALL MASS CONCRETE TO BE 1 : 3 : 6 MIX (1:6); CEMENT - SAND - COARSE AGGREGATE

ALL BLINDING TO BE 1 : 6 MIX (CEMENT- SAND AGGREGATE).

D7. IN WATER-TIGHT CONSTRUCTION, JOINTS IN CONCRETE WORK ARE TO HAVE WATER BAR AND CONTRACTOR IS TO TAKE SPECIAL CARE WITH THE CONCRETE SO AS TO PRODUCE A WATER-TIGHT CONSTRUCTION.

AN ADMIXTURE OF A PROPRIETARY BRAND MAY BE USED IF AGREED BY THE ENGINEER. HOWEVER, IF USED ADEQUATE CARE SHOULD BE EXERCISED THAT IT IS PLACED STRICTLY IN ACCORDANCE WITH THE MANUFACTURERS INSTRUCTIONS.

D8. ALL CONSTRUCTION JOINT POSITIONS ARE TO BE APPROVED BY THE ENGINEER PRIOR TO CASTING WHERE NOT INDICATED ON THE DRAWING. THESE SHOULD NOT EXCEED 10.0m APART.

D9. CONCRETE SHALL NOT BE POURED THROUGH REINFORCING STEEL SO AS TO CAUSE SEGREGATION OF AGGREGATES. HOPPERS, VERTICAL CHUTES OR TRUNKS SHALL BE USED IN SUFFICIENT NUMBERS SO THAT THE FREE UNCONFINED FALL OF CONCRETE SHALL NOT EXCEED 1800mm & TO ENSURE THAT THE CONCRETE IS KEPT LEVEL AT ALL TIMES.

D10. BEFORE FRESH CONCRETE IS POURED AGAINST CONCRETE IN-PLACE, THE CONTACT SURFACES OF CONCRETE IN-PLACE SHALL BE THOROUGHLY CLEANED, ALL LAITANCE SHALL BE REMOVED & THE CONTACT SURFACES SHALL BE THOROUGHLY SLOSHED WITH GROUT CONSISTING OF ONE PART SAND TO ONE PART CEMENT WITH A MINIMUM AMOUNT OF WATER.

D11. CONCRETE CAST ON SLOPED SURFACES SHALL BEGIN AT THE LOWEST ELEVATION & CONTINUE MONOLITHICALLY TOWARD THE HIGHER ELEVATION UNTIL THE INTENDED POUR IS COMPLETED.

D12. ALL FOOT SLABS ARE 100MM IN THICKNESS EXCEPT SPECIFIED OTHERWISE

FOUNDATION

H1. CONFIRMATORY GEOTECHNICAL INVESTIGATION SHALL BE CARRIED OUT PRIOR TO CONSTRUCTION, NOTE THE DESIGNED FOUNDATION IS GENERIC HENCE SHALL BE REVIEWED.

H3. SITE PREPARATION AND TREATMENT TO BE CONFIRMED ON SITE AND APPROVED BY SUPERVISING ENGINEER AT COMMENCEMENT OF FOUNDATION CONSTRUCTION.

H4. RELATIONSHIP OF THE GROUND FLOOR SLAB, EXISTING GROUND LEVEL AND THE FOUNDATION FORMATION LEVEL ARE TO BE CONFIRMED ON SITE AND APPROVED PRIOR TO CONSTRUCTION OF THE FOUNDATION.

BLOCKWORK

E1. CAVITIES OF HOLLOW BLOCKWALLS BELOW GROUND SLAB LEVEL ARE TO BE FILLED WITH MASS CONCRETE. BACKFILLING TO EXCAVATED TRENCHES ARE TO BE CARRIED OUT SIMULTANEOUSLY ON BOTH SIDES OF WALL.

E2. THE WALL THICKNESS OF THE BLOCKS SHOULD NOT BE MORE THAN 225mm.

E3. THE MINIMUM CRUSHING STRENGTH OF THE NON-LOAD BEARING HOLLOW SANDCRETE BLOCKS IS TO BE 2.1 N/mm2 OF THE GROSS AREA OF BLOCK AT 28 DAYS.

E4. BLOCKWORK TIES BETWEEN BLOCKWALLS AND COLUMNS/STANCHIONS ARE TO BE PROVIDED AT EVERY COURSE. TIES TO BE 6mm BAR STRAPS 700mm LONG INTO THE BLOCKWORK.

E5. MAXIMUM POUR HEIGHT FOR ALL FILLED BLOCKWORK TO BE 2 COURSES AT A TIME.

E6. ALL LOAD-BEARING SANDCRETE HOLLOW BLOCKWALLS TO HAVE A MINIMUM STRENGTH OF 2.76 N/MM2 OF NETT AREA OF BLOCKWALL AT 28 DAYS.

E7. ALL BLOCKWORKS ARE LOAD BEARING AND ARE TO BE CONCRETE FILLED TO THE SPECIFIED OR SHOWN LEVEL(S) WITH CONCRETE AS IN D1 WITH 10MM MAXIMUM COARSE AGGREGATE SIZE.

E8. BLOCKWORK INDICATED THUS , ON DRAWINGS ARE LOAD BEARING, CONCRETE FILLED AS IN D1 WITH 10MM MAX. COARSE AGGREGATE SIZE, AND WITH CAVITIES REINFORCED AS SPECIFIED.

E9. CONCRETE FILLED LOAD-BEARING BLOCKWORKS ARE TO ACHIEVE A MINIMUM CRUSHING STRENGTH OF 6.5 N/MM2.

EARTHWORK

G1. CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR SHORING AND BRACING OF THE BUILDING EXCAVATIONS & EMBANKMENTS, INCLUDING EXCAVATION FOR UTILITIES, AND IS ALSO FULLY RESPONSIBLE FOR THE DESIGN & PERFORMANCE OF SHORING AND BRACING DURING CONSTRUCTION.

G2. CONTRACTOR SHALL COORDINATE THE EXTENT OF THE EXCAVATION, SHORING AND BRACING WITH CIVIL DRAWINGS. CONTRACTOR SHALL ALSO REFER TO CIVIL DRAWINGS, SPECIFICATIONS & GEOTECHNICAL REPORT FOR DEWATERING AND RELATED INFORMATION NOT COVERED IN THE STRUCTURAL DRAWINGS.

G3. EARTHWORK COMPACTION SHALL BE IN ACCORDANCE WITH CIVIL DRAWINGS AND SPECIFICATIONS AS WELL AS WITH THE GEOTECHNICAL REPORT.

SITE PREPARATION

J1. REMOVE ALL EXISTING TOPSOIL UNDER SLABS, PROVIDE 150mm WELL RAMMED

J2. WHERE BAD GROUND IS ENCOUNTERED BELOW FOUNDATION LEVEL, THE DIFFERENCE IN LEVEL BETWEEN APPROVED BEARING STRATUM AND ORIGINAL LEVEL IS TO BE MADE UP USING MASS CONCRETE TO THE APPROVAL OF THE SUPERVISING ENGINEER.

TOPOGRAPHICAL MAP



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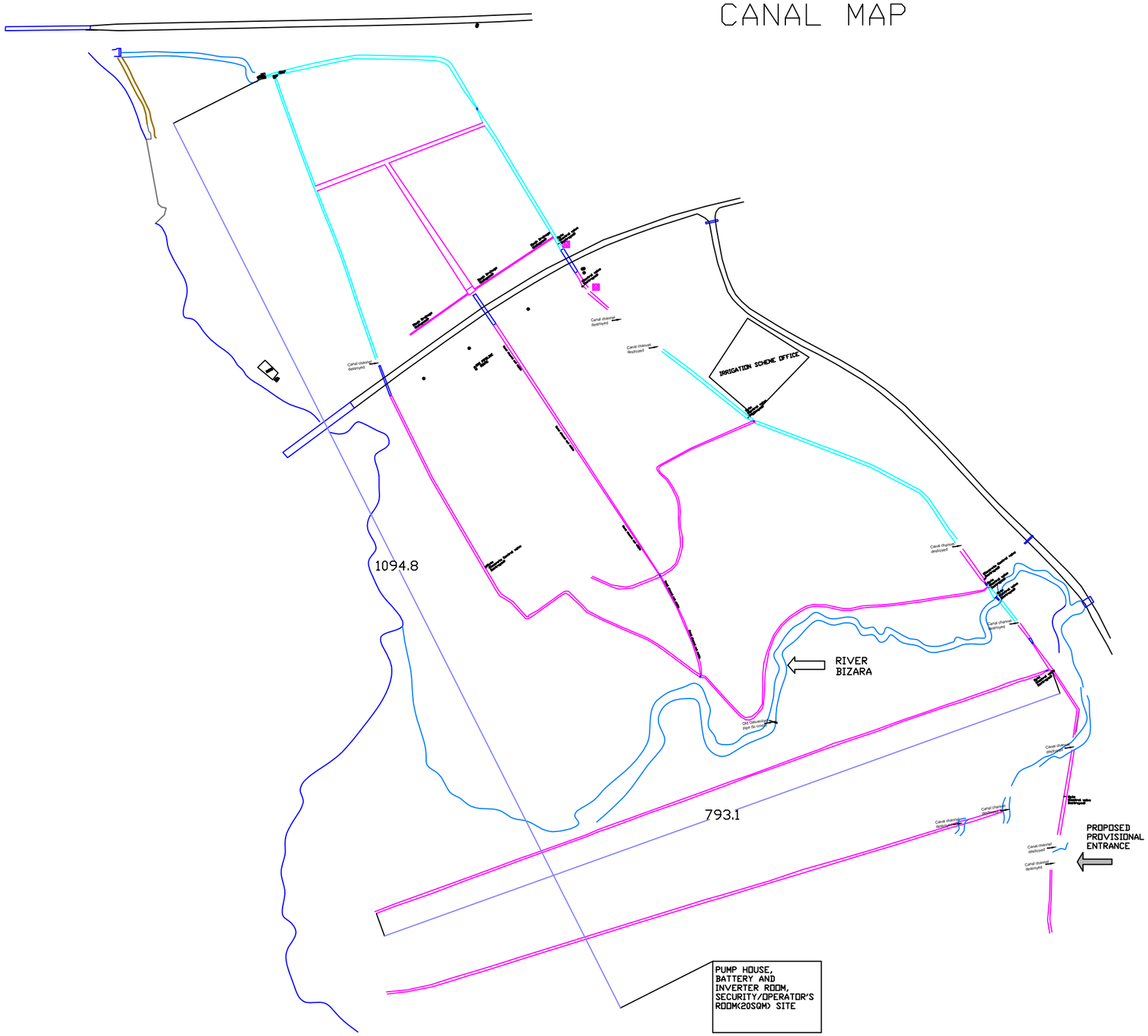
PROJECT; REHABILITATION OF GALMA IRRGATION RIVER BASIN

BBENEFICIARIES; GALMA COMMUNITY, ZARIA, KADUNA STATE.

PROJECT CODE	PROJECT CODE
DATE	OCTOBER 2026
SURVEY BY	OLUWASEUN F., DOGARA JOSEPH
DESIGN BY	WAKAWA BITRUS BATA
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CANAL MAP



Project:
Mapping of
Galma Irrigation Scheme

Location:

GALMA, ZARIA, L. G. A.
KADUNA STATE.

ORIGIN: UTM, ZONE 32N, W.G.S 84 DATUM

Canal in Good Condition

Canal Destroyed/Buried

Bench Mark

High Tension pole (HT)

Dim	Meters
Scale	1:5,000
Date	OCTOBER, 2026.

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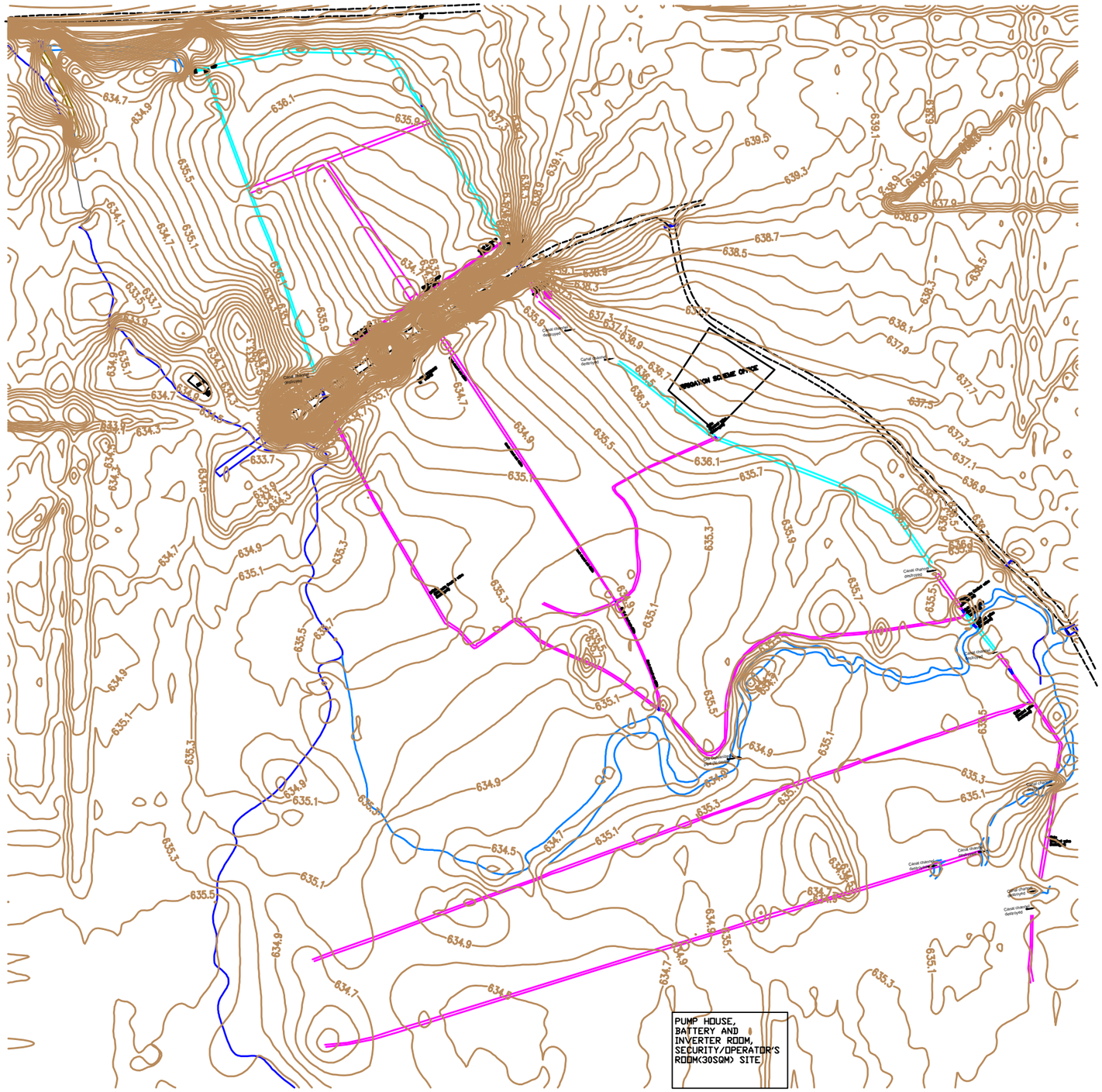
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TOPOGRAPHICAL AND CANAL MAP



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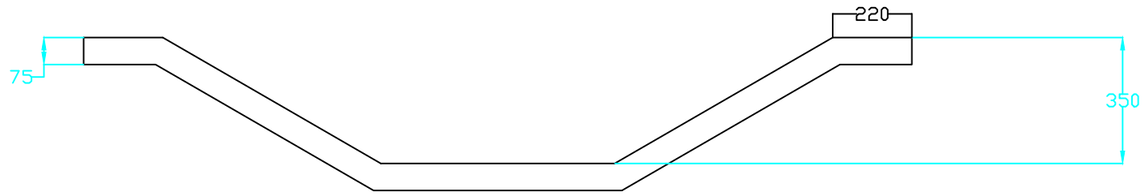
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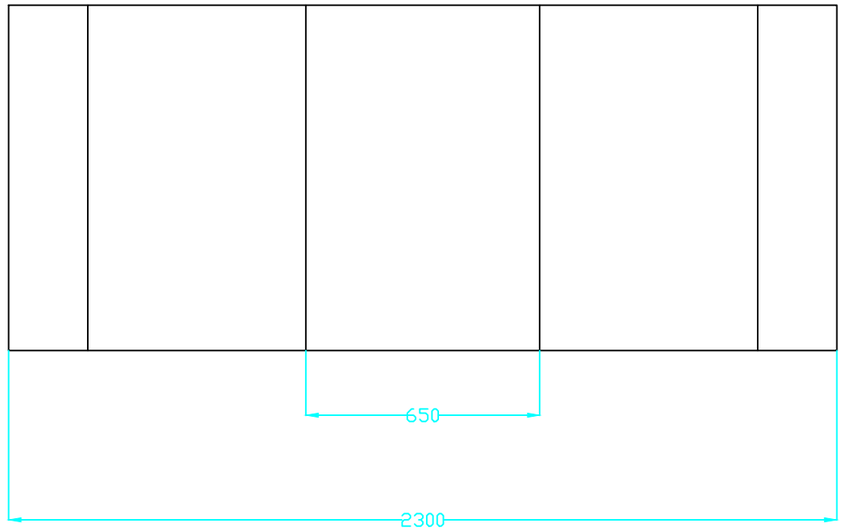
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TYPICAL VIEW OF GALMA 3 CANAL



CROSS SECTION OF CANAL



TOP VIEW OF CANAL

CANA'S LENGTH IS MEASURED ABOUT 4Km.

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SATELITE MAP



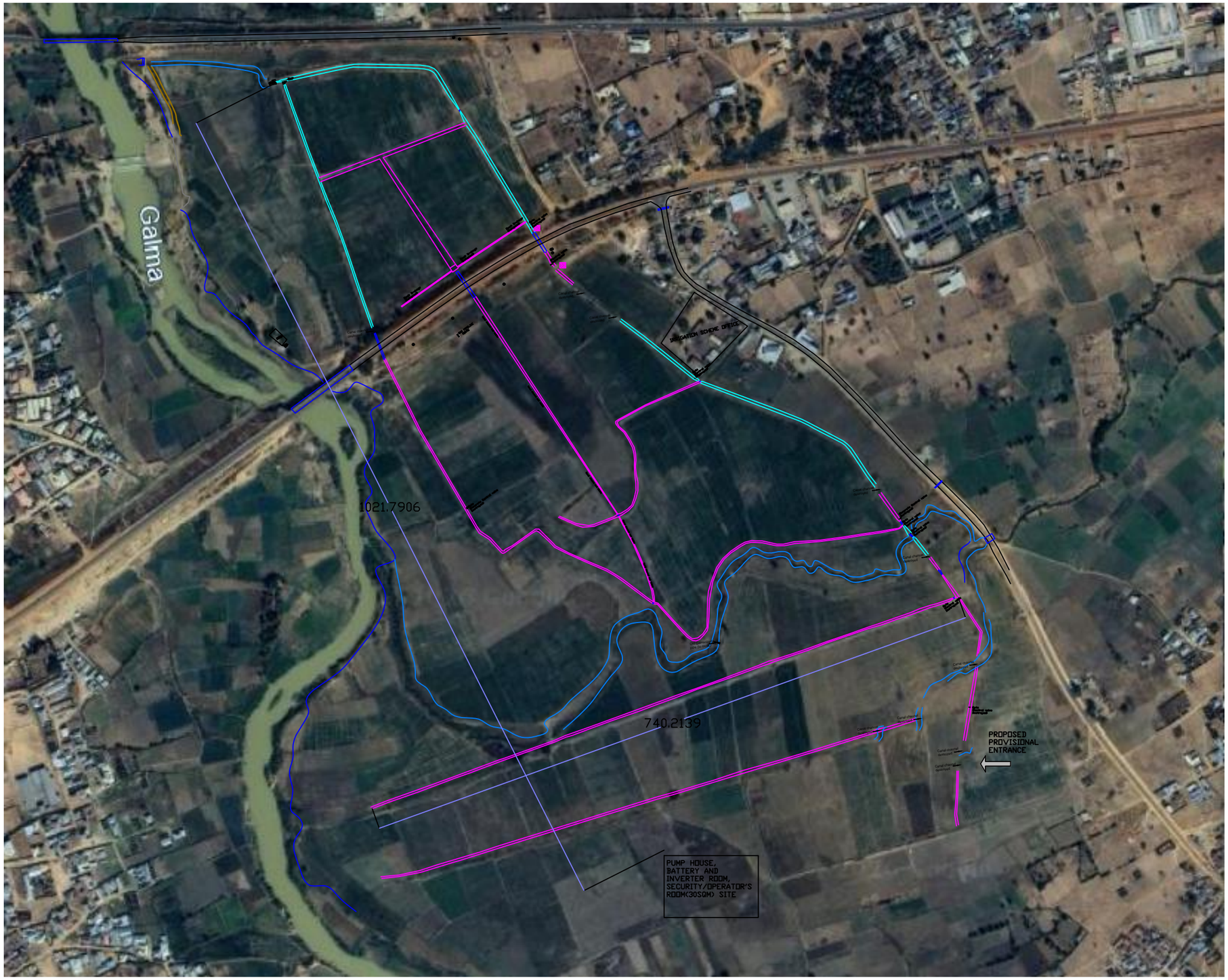
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CANAL MAP ON SATELITE MAP

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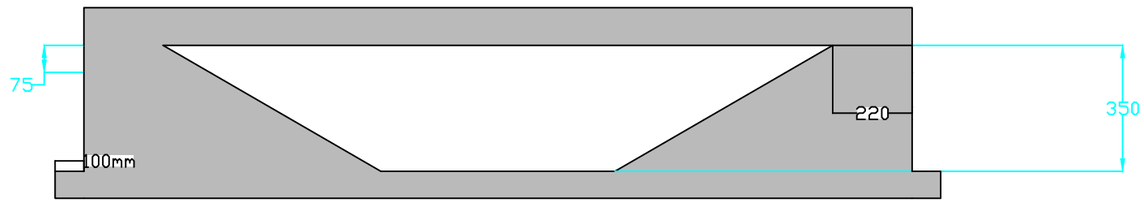
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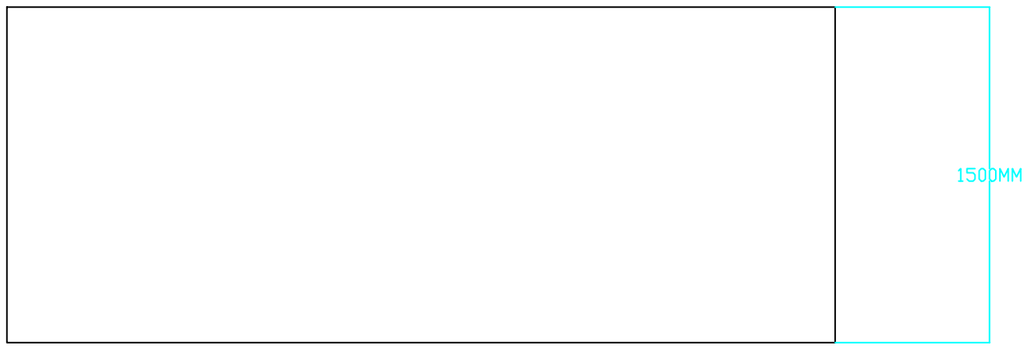
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TYPICAL VIEW OF GALMA 3 CANAL





CROSS SECTION OF PEDESTAL

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PROPOSED POWER HOUSE FOR IRRIGATION REHABILITATION

CDEL PROJECT

ZARIA LGA, KADUNA STATE

DRAFT DESIGN DRAWING

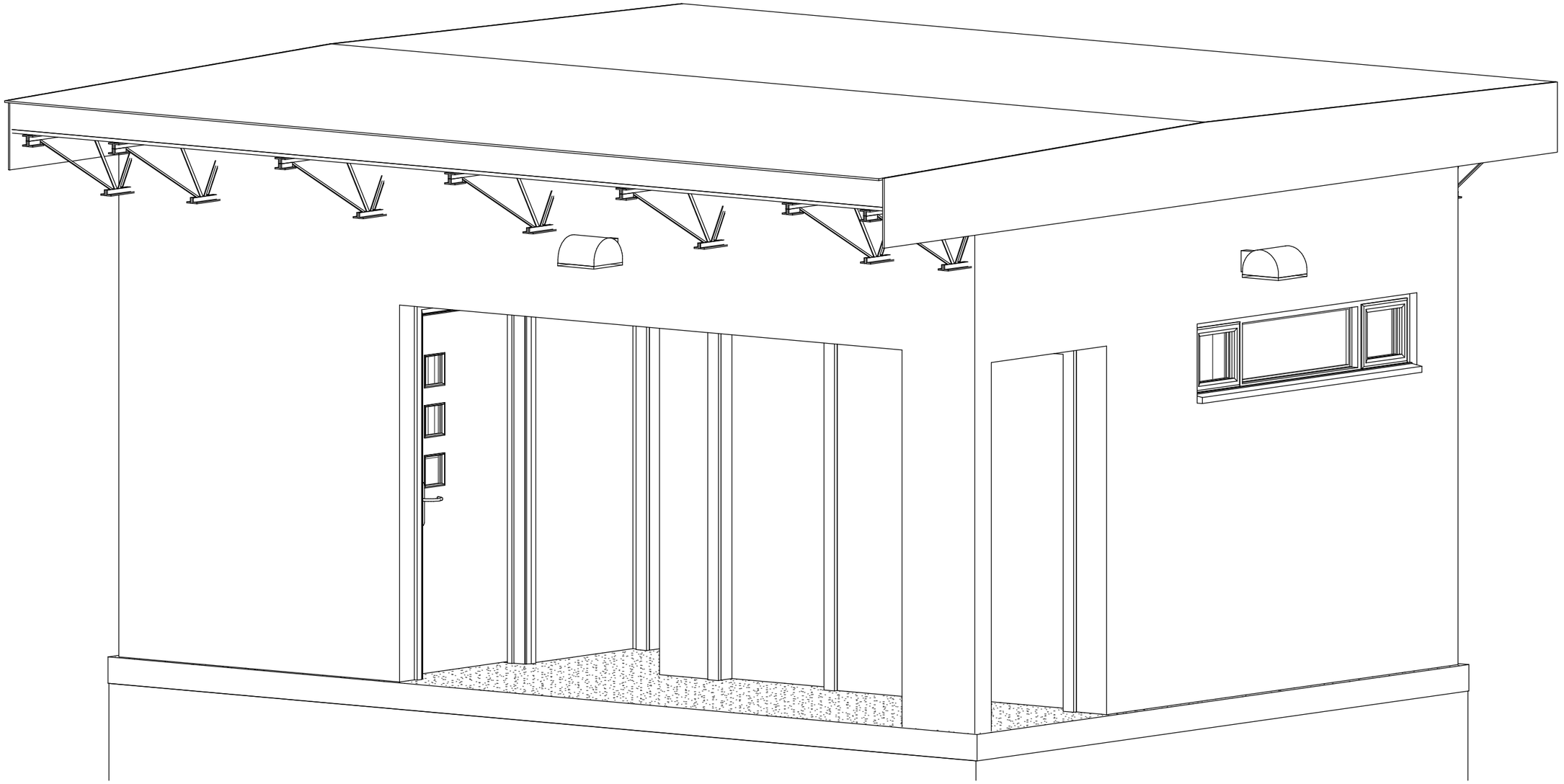
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Status	Review	Version
Discipline	Common	V1-A01

General Notes

All dimensions are in milimeters except specified.
All specifications to be used as provided.

No.	Description	Date

Beneficiaries:
Zaria LGA, Kaduna State

Project:
Proposed Power House

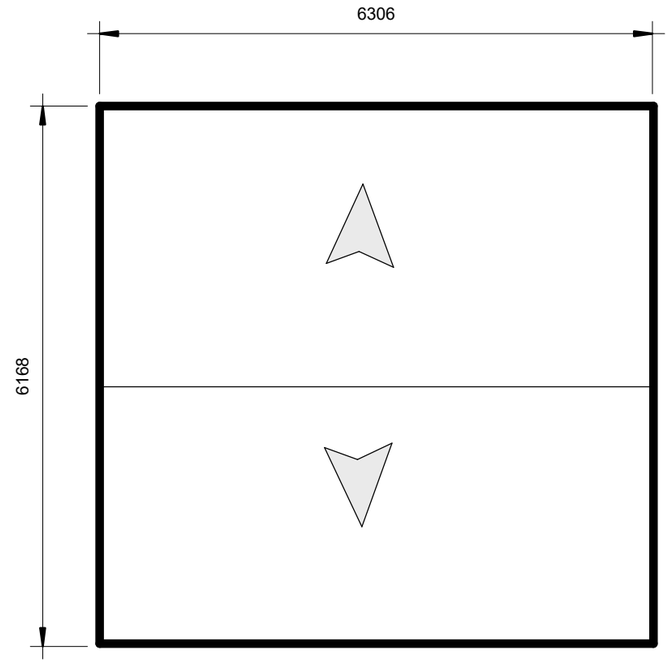
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Project number	CDEL/KT/APP-01
Date	October, 2026
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Rev. by	A. A. Kantoma

A01

Scale

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ROOF PLAN

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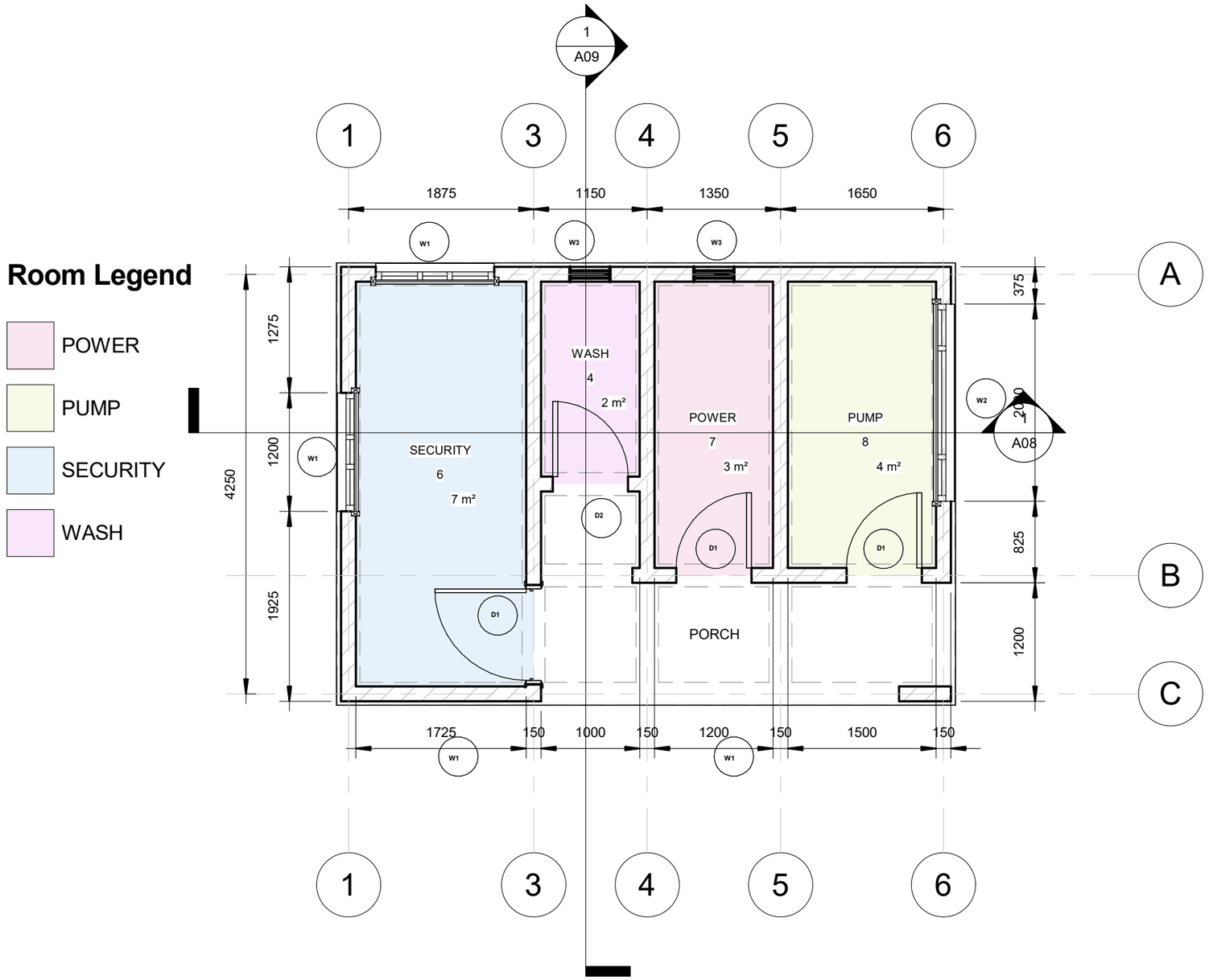
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A02

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Room Legend

- POWER
- PUMP
- SECURITY
- WASH

FLOOR PLAN

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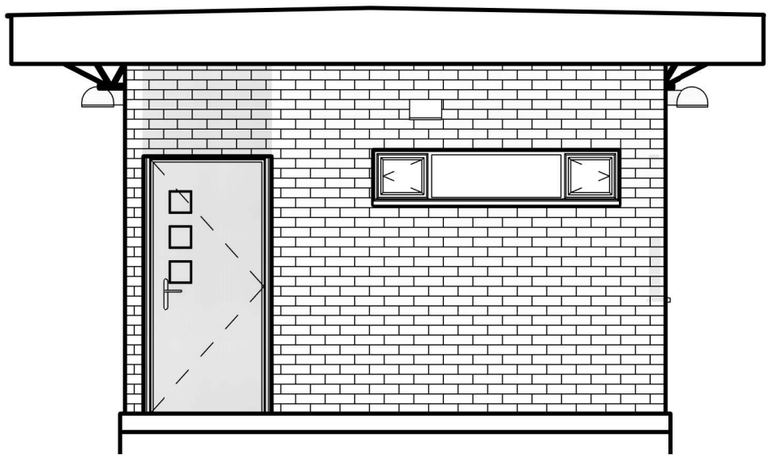
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A03

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RIGHT ELEVATION

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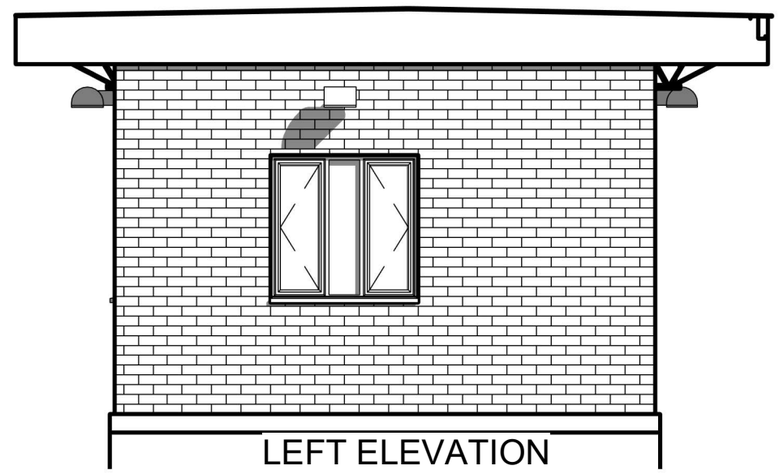
Project:
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Sheet ID | **RIGHT ELEVATION**

Project number	CDEL/KT/APP-01
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A04

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LEFT ELEVATION

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COOPI COOPERAZIONE INTERNAZIONALE

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Status	Review	Version
Discipline	Common	V1-A05

General Notes

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No.	Description	Date

Beneficiaries:

Zaria LGA, Kaduna State

Project:

Proposed Power House

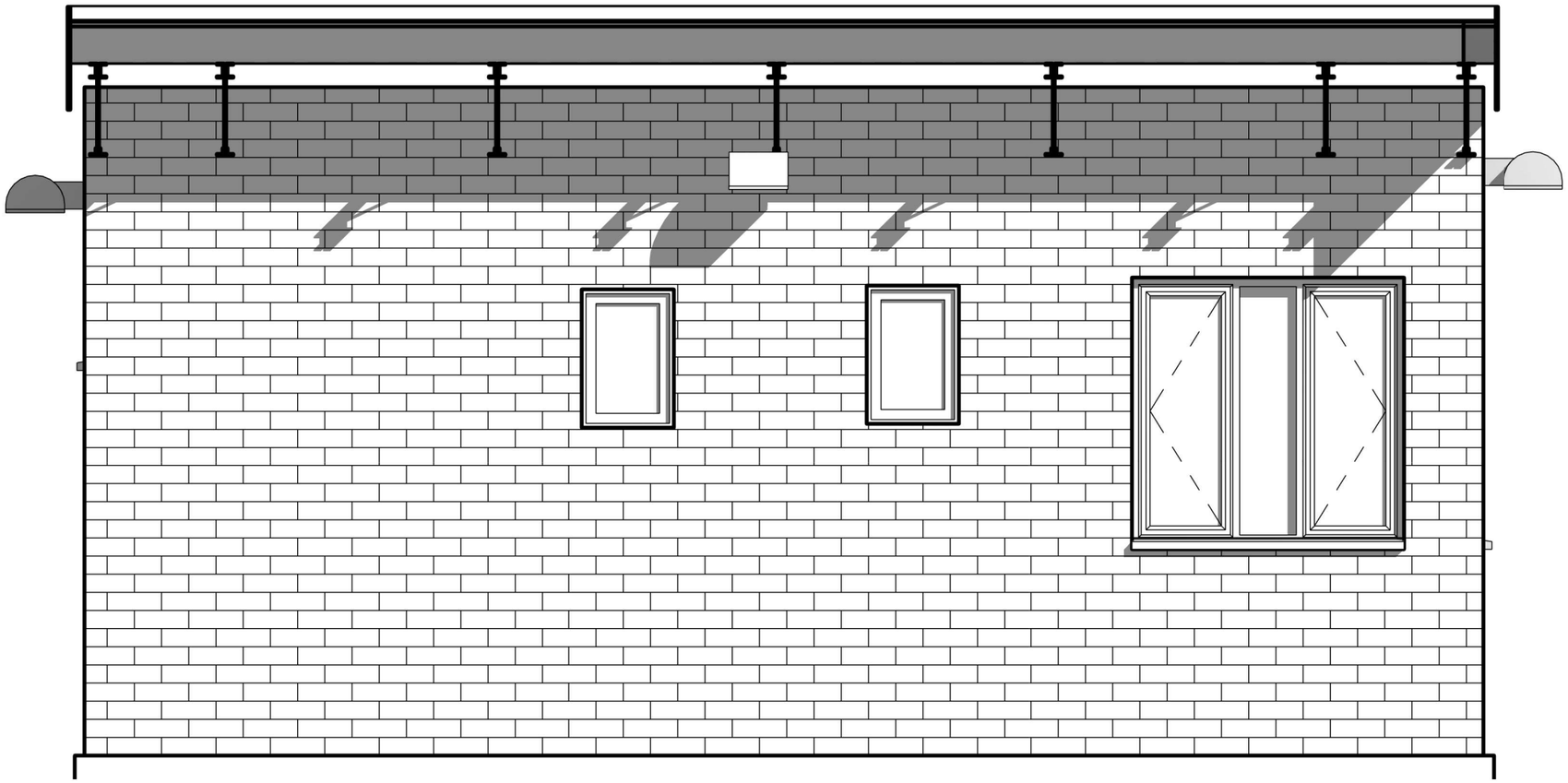
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Project number	CDEL/KT/APP-01
Date	October, 2026
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A05

Scale 1 : 50

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REAR ELEVATION

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Karsana, Gwarimpa, Abuja

Status	Review	Version
Discipline	Common	V1-A06

General Notes

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Beneficiaries:
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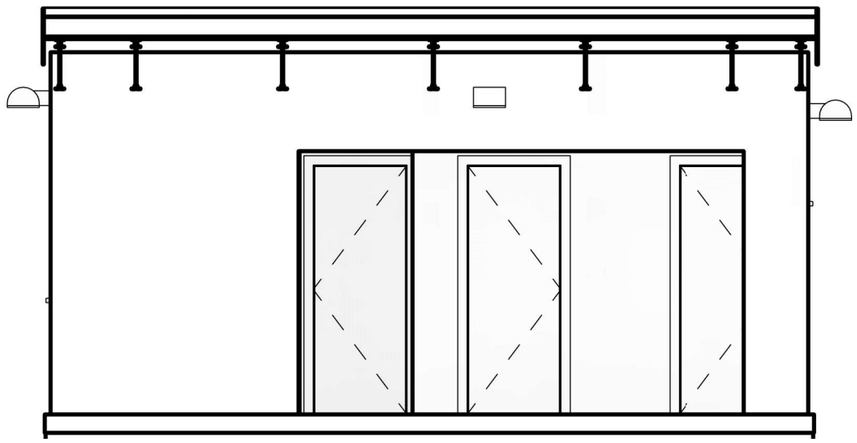
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A06

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RIGHT ELEVATION

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Status	Review	Version
Discipline	Common	V1-A07

General Notes

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Beneficiaries:
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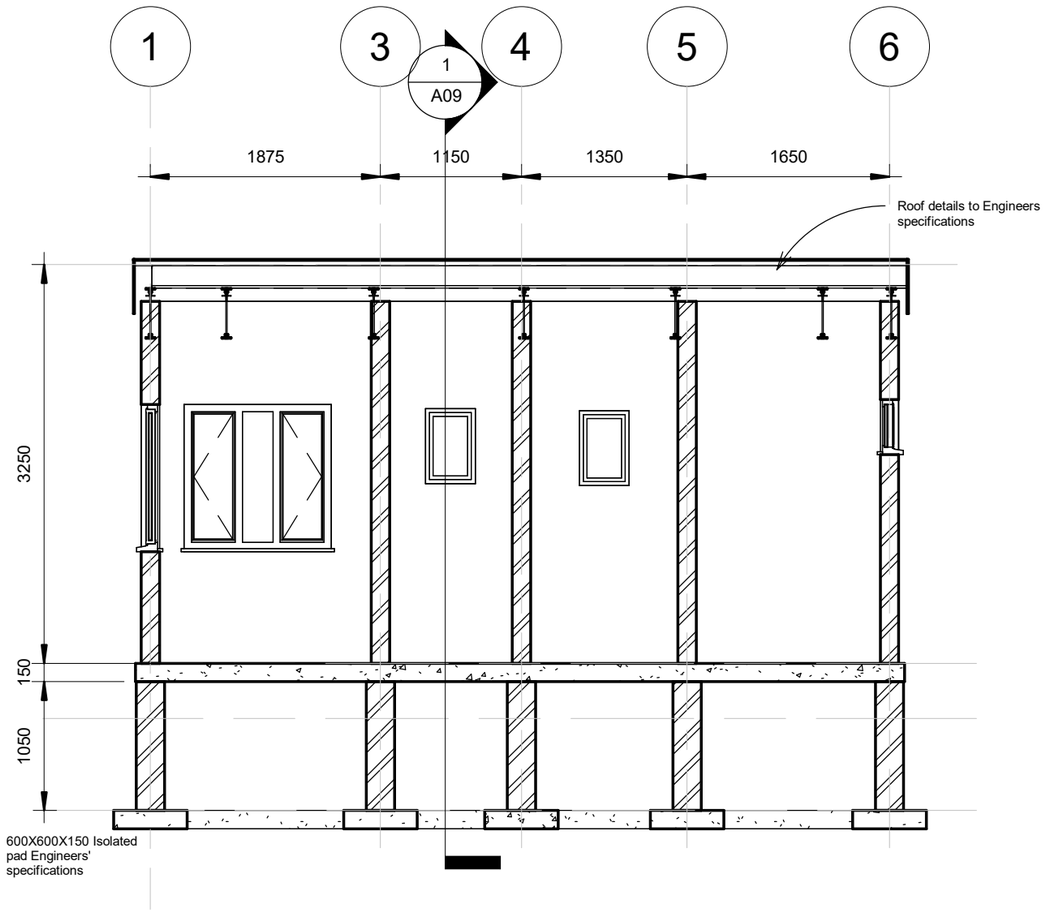
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A07

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SECTION Y-Y

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Beneficiaries:
Zaria LGA, Kaduna State

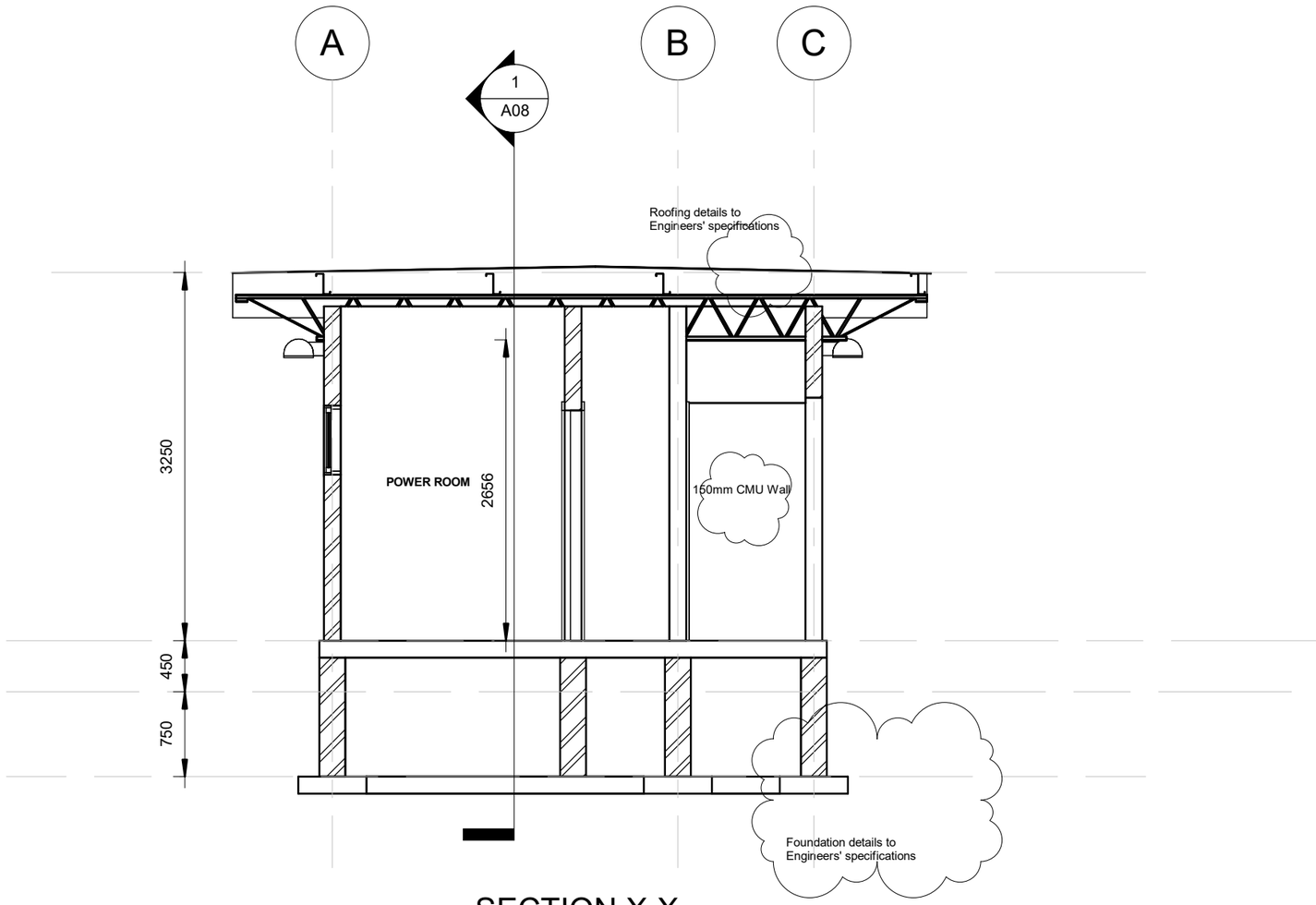
Project:
Proposed Power House

Sheet ID SECTION Y-Y

Project number	CDEL/KT/APP-01
Date	October, 2026
Drawn by	Bitrus Wakawa
Rev. by	A. A. Kantoma
Scale	1 : 50

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SECTION X-X

UK International Development
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COOPI
COOPERAZIONE INTERNAZIONALE

COOPI-Cooperazionale Internazionale
EFAB Estate No. 19, Londo Street
Karsana, Gwarimpa, Abuja

Status	Review	Version
Discipline	Common	V1-A09

General Notes

All dimensions are in milimeters except specified.
All specifications to be used as provided.

No.	Description	Date
1	Revision 1	Date 1

Beneficiaries:
Zaria LGA, Kaduna State

Project:
Proposed Power House

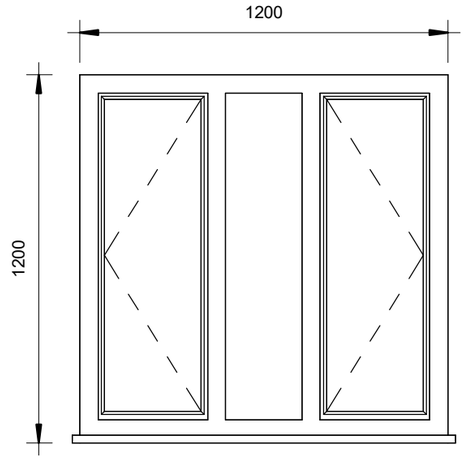
Sheet ID SECTION X-X

Project number	CDEL/KT/APP-01
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Scale	1 : 50

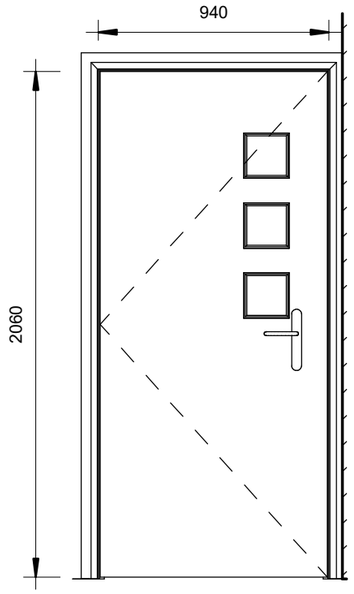
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Window Schedule					
Type	Height	Width	Count	Area	Total Area
0406 x 0610mm	0.6	0.4	2	0.2 m²	0.5 m²
Casement	1.2	1.2	2	1.4 m²	2.9 m²
Industrial casement 450mmx2000mm	0.5	2.0	1	0.9 m²	0.9 m²



Door Schedule					
Family and Type	Height	Width	Count	Area	Total Area
M_Single-Flush: 0762 x 2032mm	2032	762	3	1.5 m²	4.6 m²
IntSgl (4): 1010 x 2110mm	2110	1010	1	2.1 m²	2.1 m²



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COOPI-Cooperazionale Internazionale
EFAB Estate No. 19, Londo Street
Karsana, Gwarimpa, Abuja

Status	Review	Version
Discipline	Common	V1-A10

General Notes

All dimensions are in milimeters except specified.
All specifications to be used as provided.

No.	Description	Date

Beneficiaries:
Zaria LGA, Kaduna State

Project:
Proposed Power House

Sheet ID SCHEDULE

Project number	CDEL/KT/APP-01
Date	October, 2026
Drawn by	Bitrus Wakawa
Rev. by	A. A. Kantoma
Scale	As indicated

A10

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