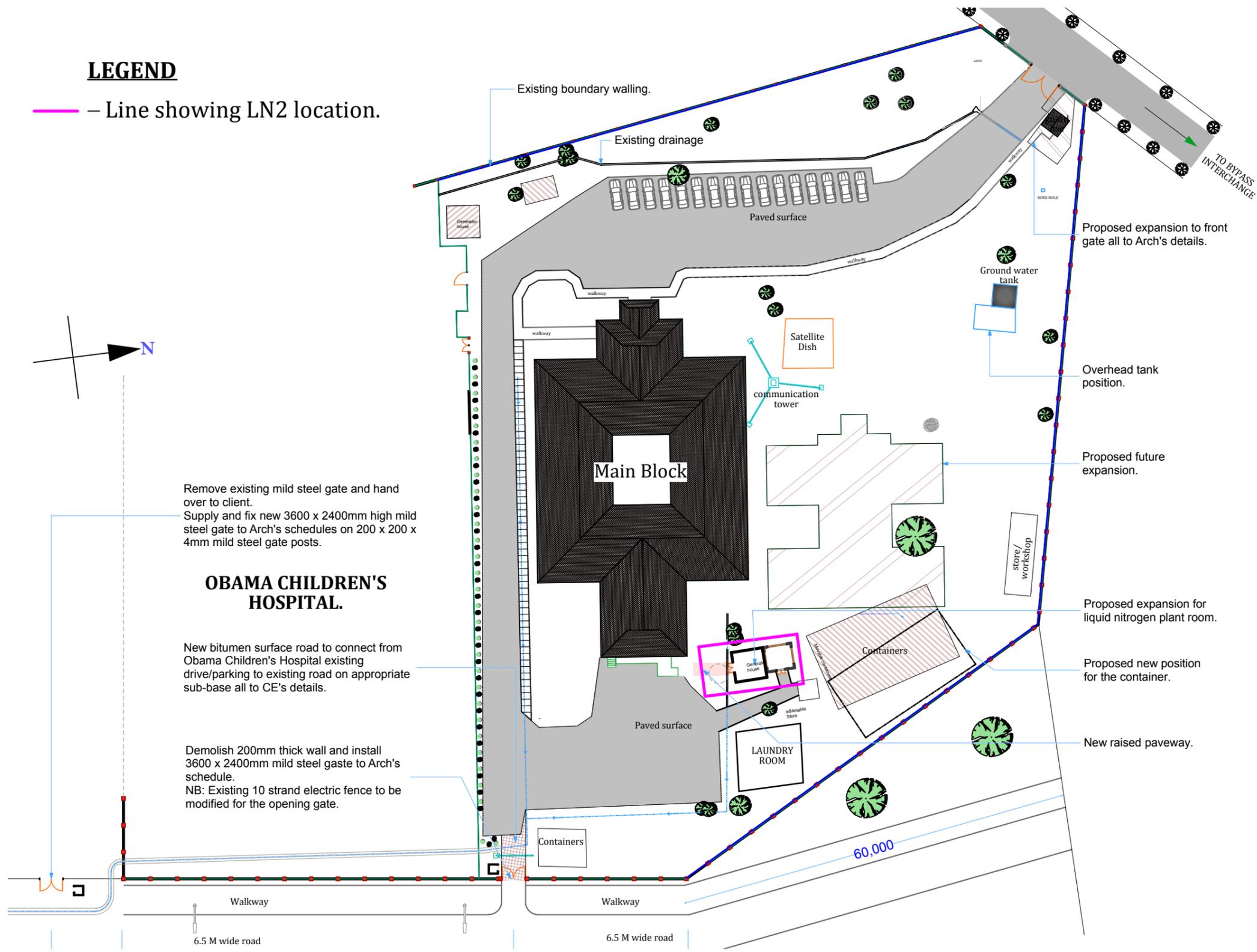


LEGEND

— Line showing LN2 location.



Remove existing mild steel gate and hand over to client.
Supply and fix new 3600 x 2400mm high mild steel gate to Arch's schedules on 200 x 200 x 4mm mild steel gate posts.

OBAMA CHILDREN'S HOSPITAL.

New bitumen surface road to connect from Obama Children's Hospital existing drive/parking to existing road on appropriate sub-base all to CE's details.

Demolish 200mm thick wall and install 3600 x 2400mm mild steel gate to Arch's schedule.
NB: Existing 10 strand electric fence to be modified for the opening gate.

Project
PROPOSED KONDELE RENOVATION WORKS FOR WRP, KISUMU COUNTY.
PR 4924965 MRU LN2 House Construction
DRAWINGS.

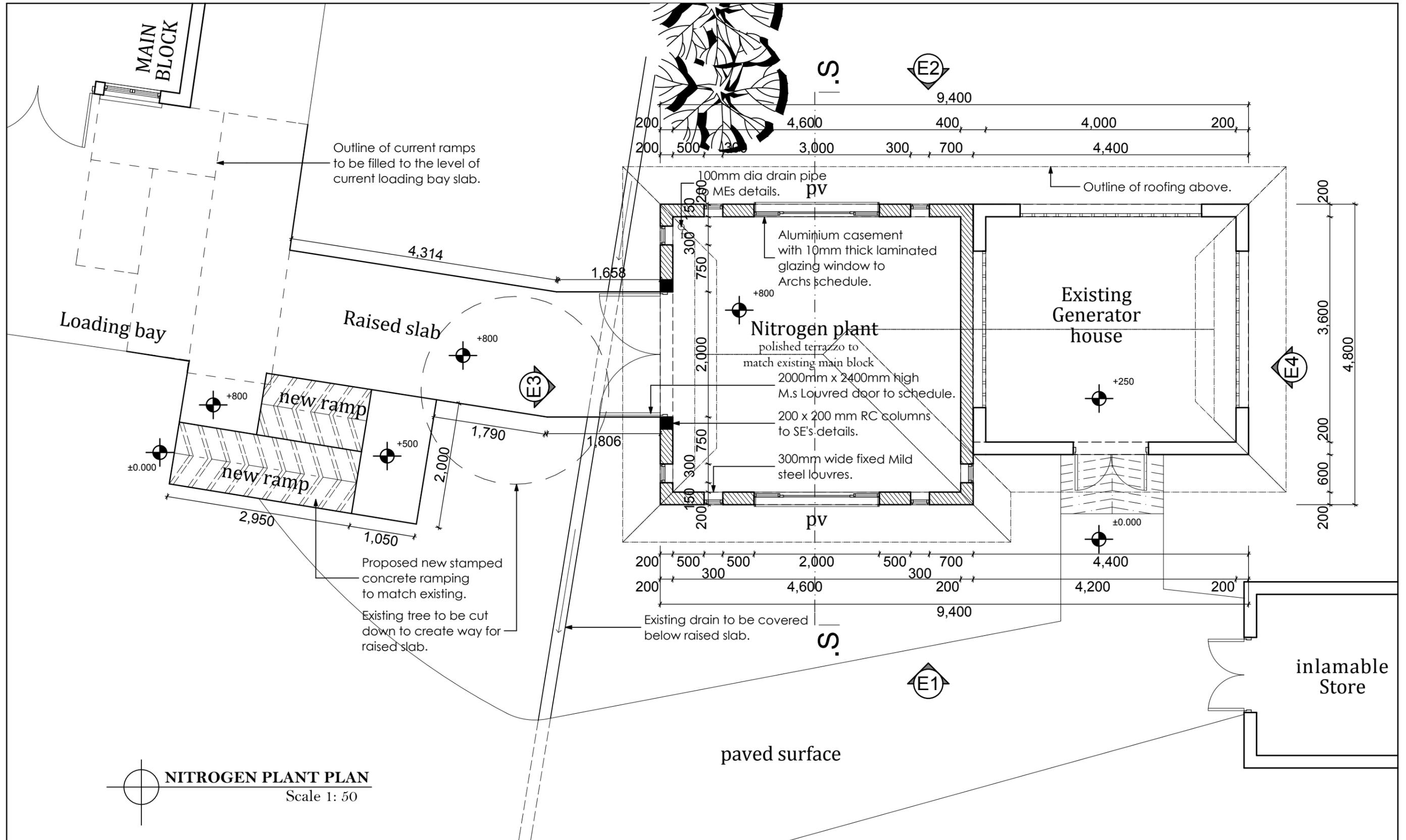
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No.	Revisions	Description

No.	Revisions	Description

Scale: As shown Date: NOVEMBER 2015 Sheet No. A01
Job no.015 - 014/02



NITROGEN PLANT PLAN
Scale 1: 50

Project
PROPOSED KONDELE RENOVATION WORKS FOR WRP, KISUMU COUNTY.
 PR 4924965 MRU LN2 House Construction
 DRAWINGS.

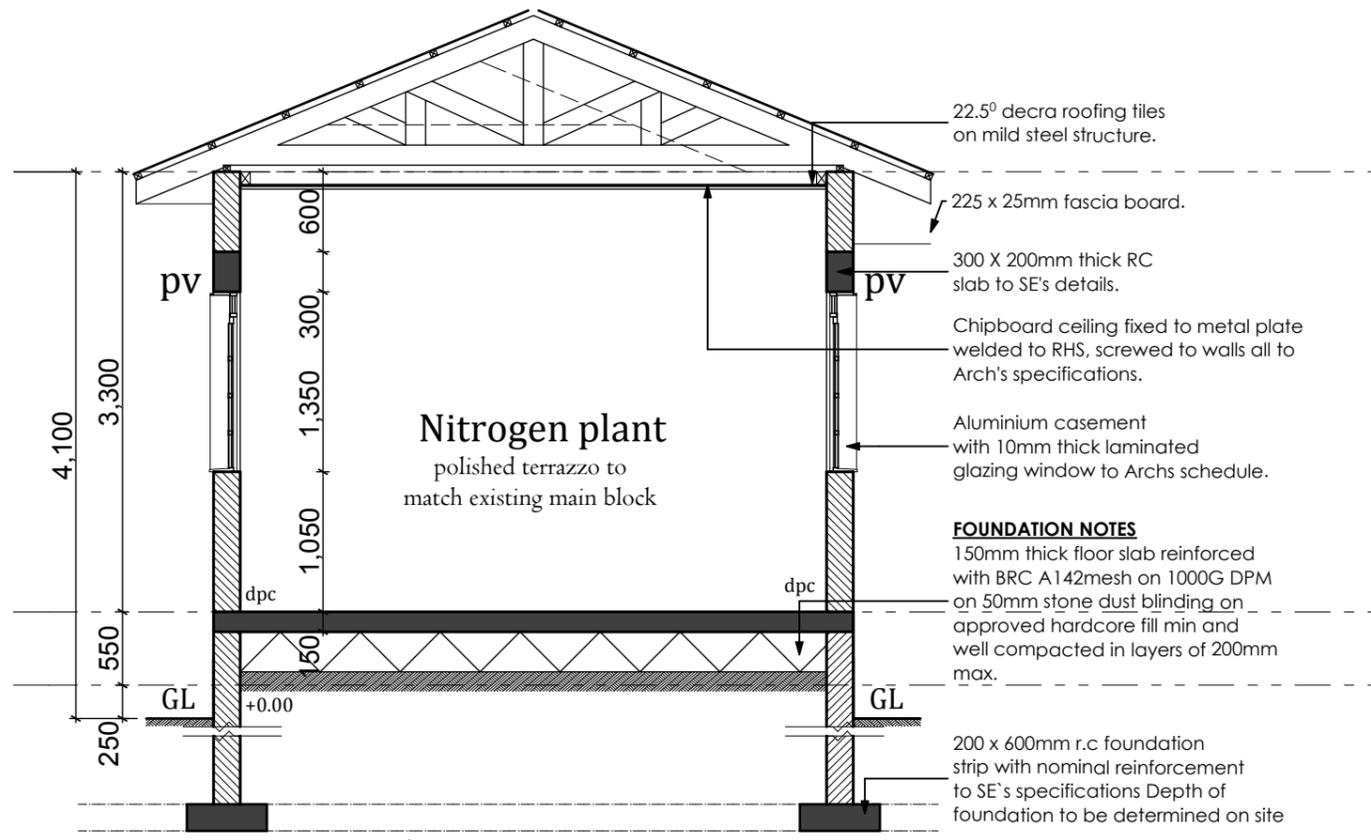
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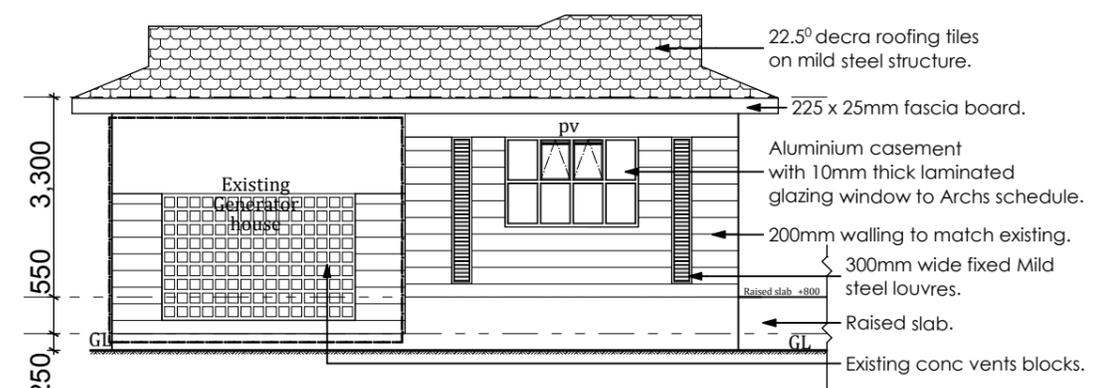
No.	Revisions	Description

No.	Revisions	Description

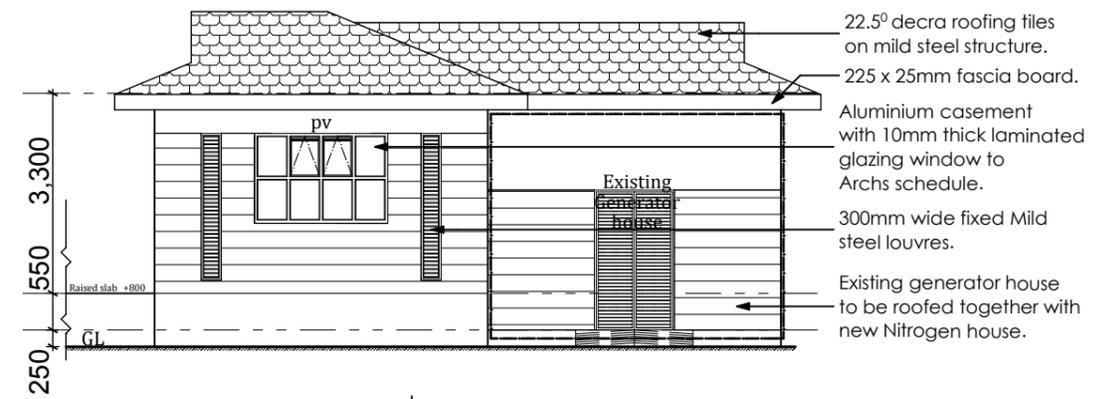
Scale: As shown Date: NOVEMBER 2015 Sheet No. A02
 Job no.015 - 014/02



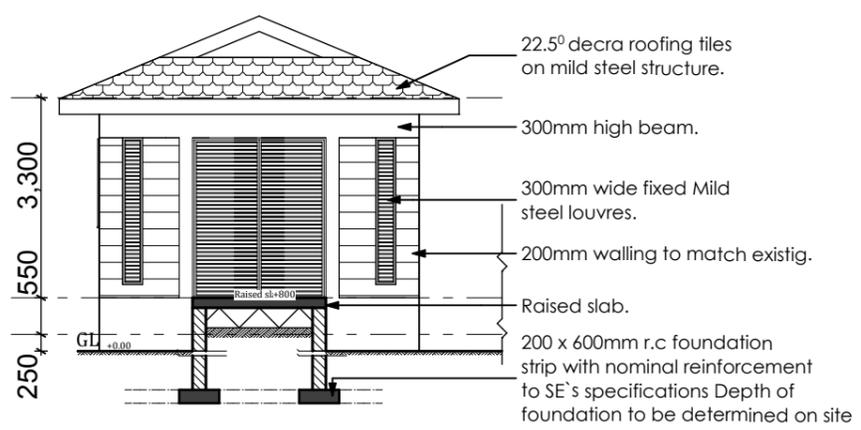
SECTION S - S
Scale 1: 100



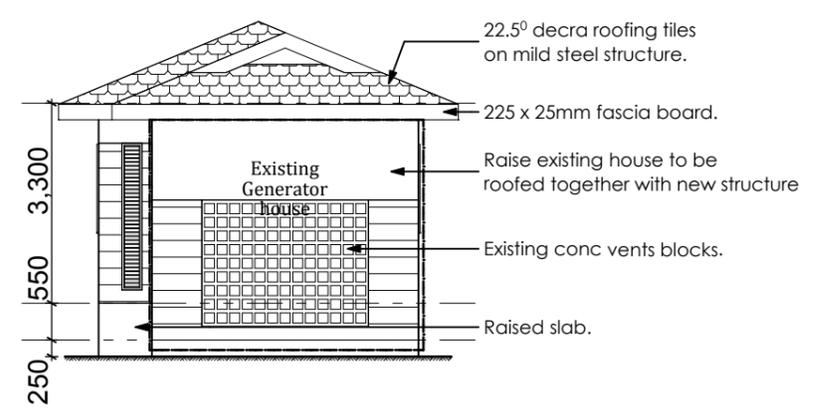
ELEVATION 1
Scale 1: 100



ELEVATION 2
Scale 1: 100



ELEVATION 3
Scale 1: 100



ELEVATION 4
Scale 1: 100

Project
PROPOSED KONDELE RENOVATION
WORKS FOR WRP,
KISUMU COUNTY.
PR 4924965 MRU LN2 House Construction
DRAWINGS.

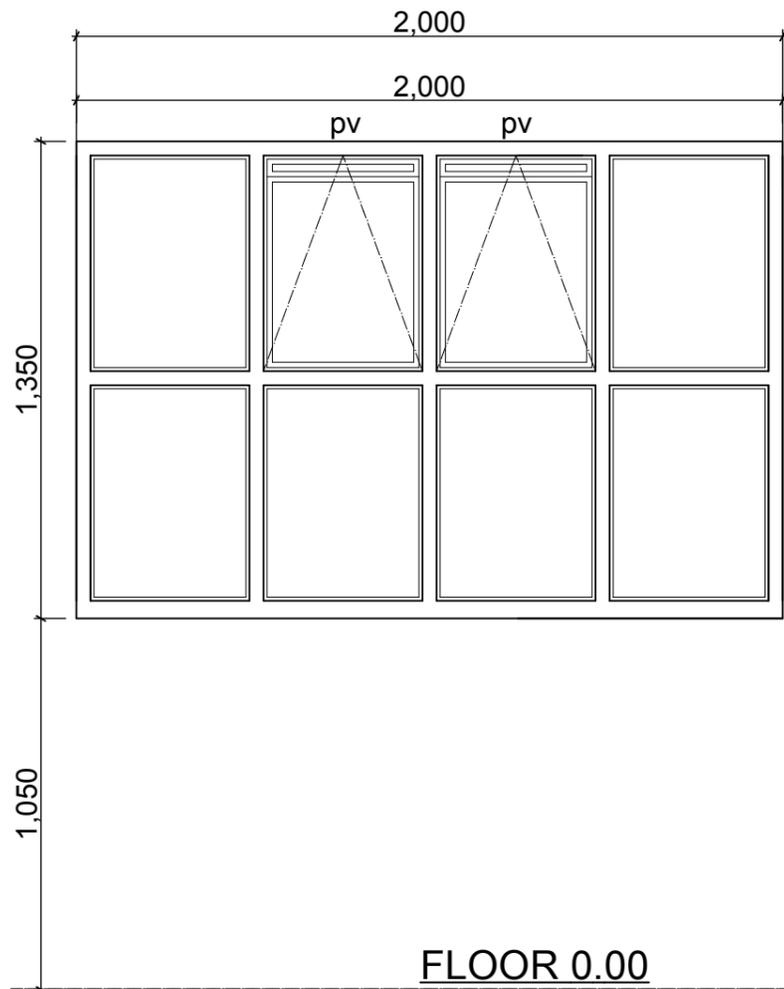
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No.	Revisions	Description

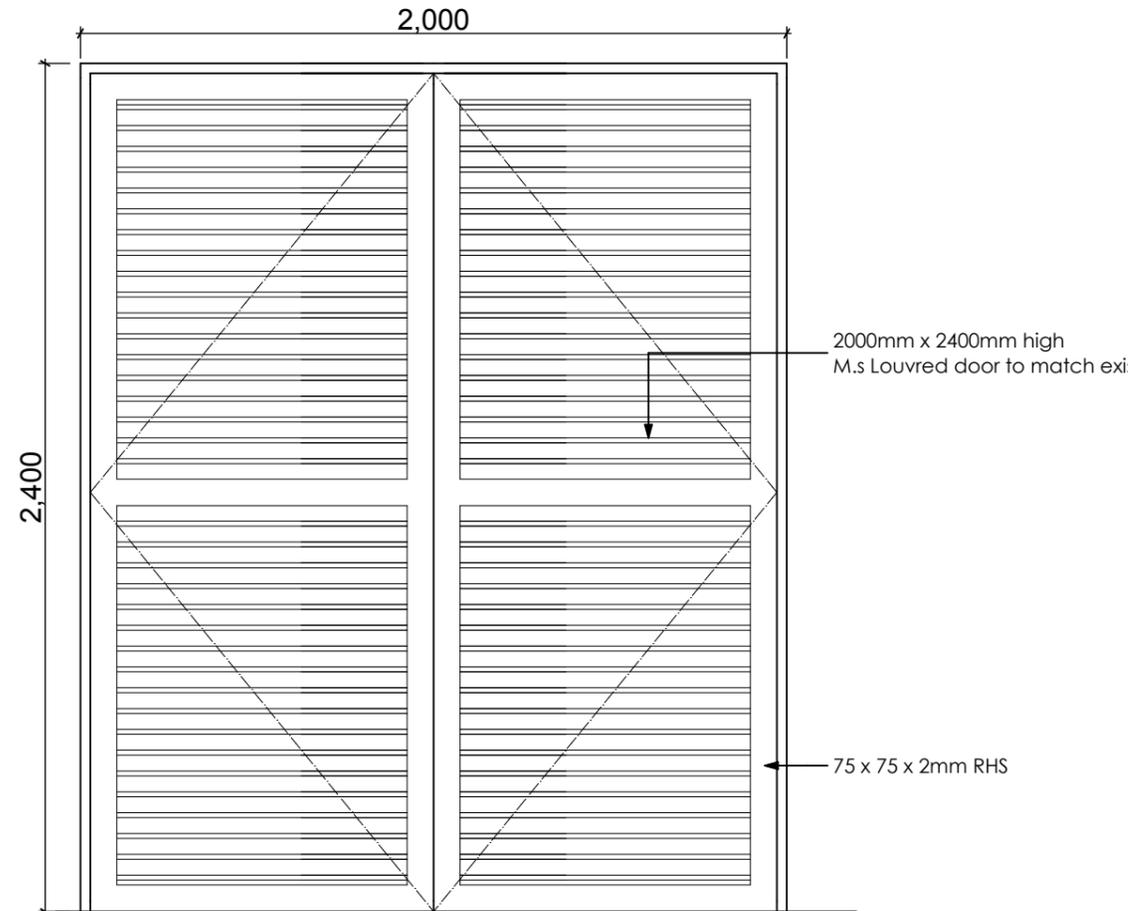
No.	Revisions	Description

Scale: As shown
Date: NOVEMBER 2015
Sheet No. A03
Job no.015 - 014/02

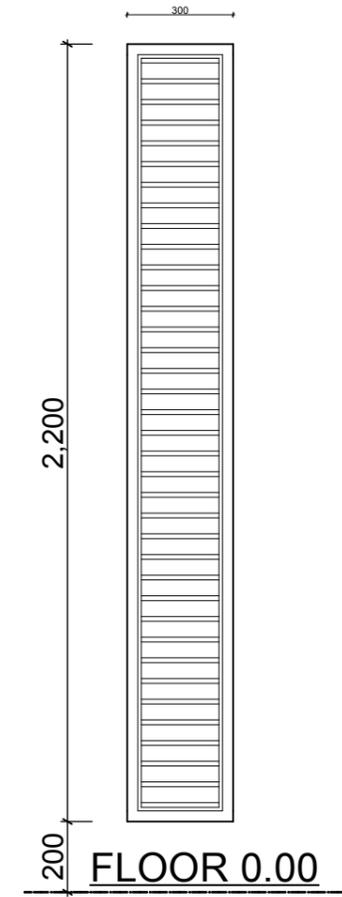


FLOOR 0.00

DESCRIPTION:
1350 x 1500mm wide Aluminium window.
LOCATION:
Nitrogen plant house
QUANTITY:
2 no
GLAZING:
10mm thick clear laminated glass.



DESCRIPTION:
2000mm wide double leafed Louvred door.
LOCATION:
Nitrogen plant house
QUANTITY:
1 no
IRONMONGERY:
100mm mild steel bush hinges - 4 prs
5 levers steel door lock - 1 No.
Padlock hasps - 1 Printernalty.
200mm mild steel tower bolts - 2 No.



FLOOR 0.00

DESCRIPTION:
2200 x 300mm wide MS louvered window.
LOCATION:
Nitrogen plant house
QUANTITY:
7 no

Project
PROPOSED ROOF REPAIR TO
LABORATORY ROOF AT KISIAN
RESEARCH CENTER FOR WRP, KISUMU
COUNTY.
PR 4924965 MRU LN2 House Construction
DRAWINGS.

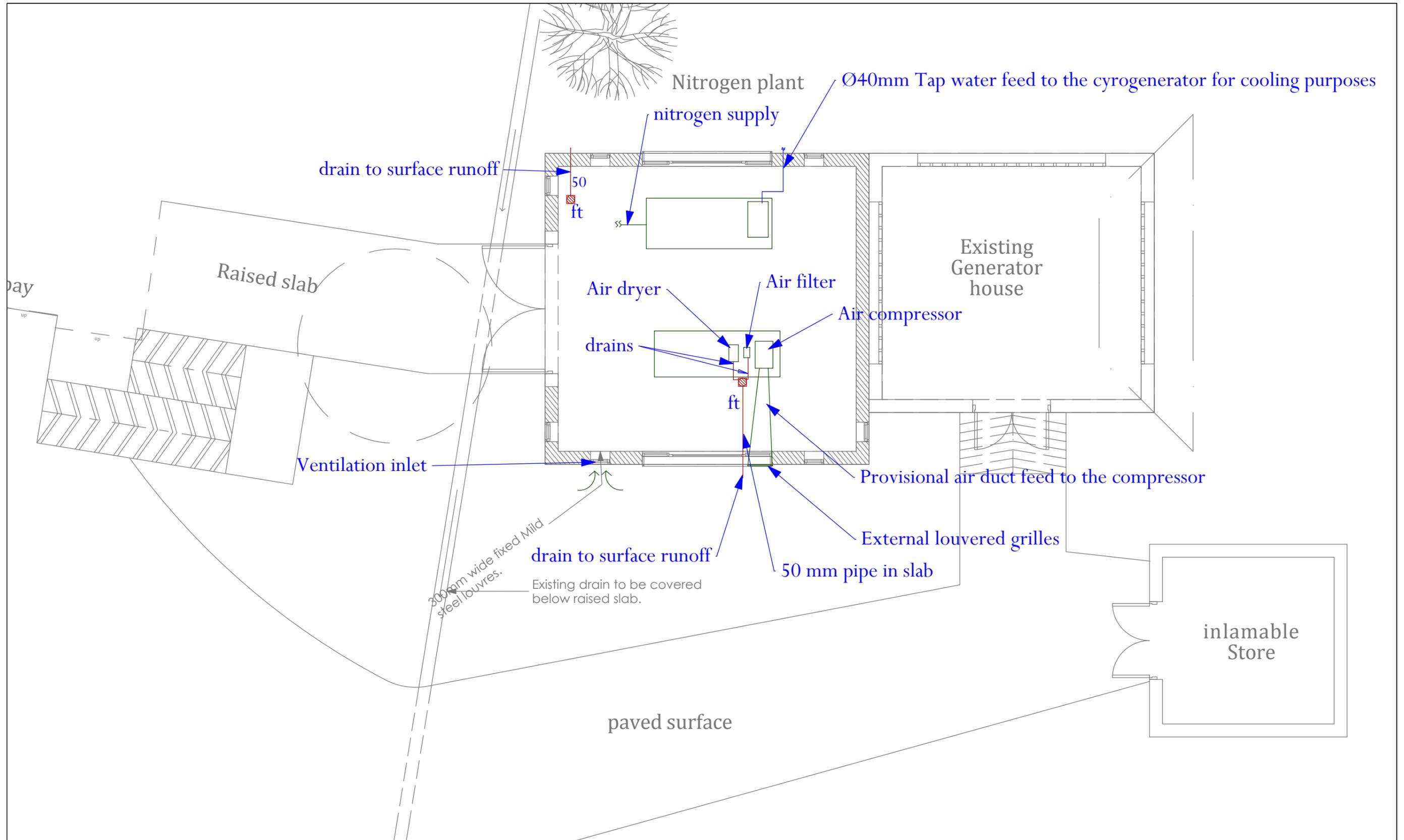
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No.	Revisions	Description

No.	Revisions	Description

Scale: As shown
Date: NOVEMBER 2015
Sheet No. A04
Job no.015 - 014/02



Project
**PROPOSED KONDELE RENOVATION
 WORKS FOR WRP,
 KISUMU COUNTY.**
 PR 4924965 MRU LN2 House Construction
 DRAWINGS.

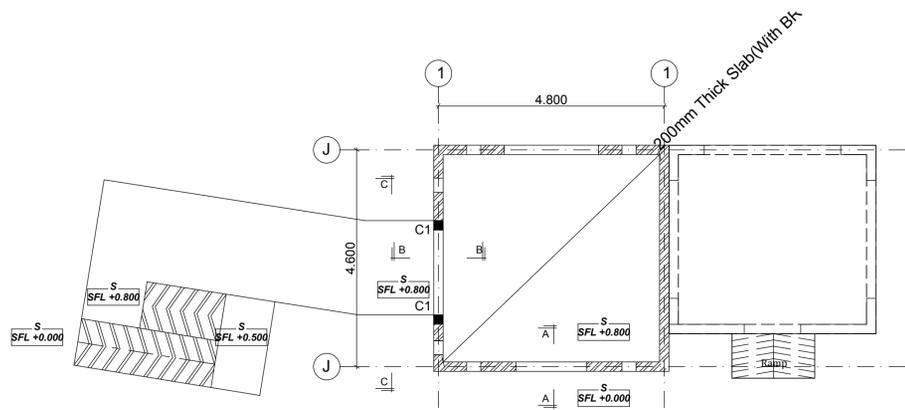
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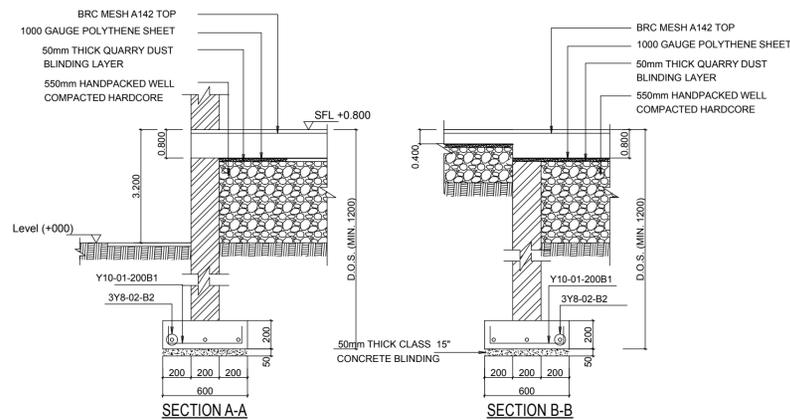
No.	Revisions	Description

No.	Revisions	Description

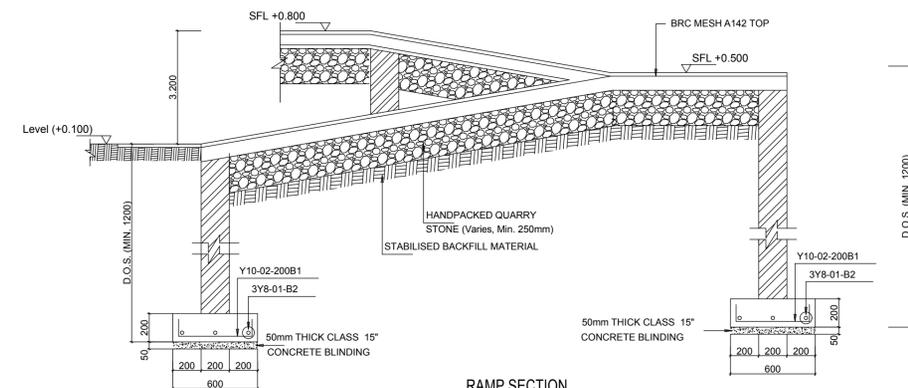
Scale: As shown Date: NOVEMBER 2015 Sheet No. M01
 Job no.015 - 014/02



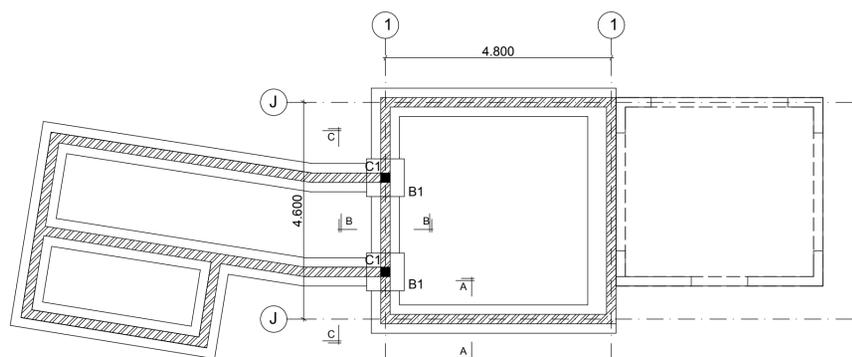
GROUND FLOOR SLAB LAYOUT
(200mm Thick Slab, Unless otherwise shown - With BRC Mesh A142 on top)
Scale: 1:75



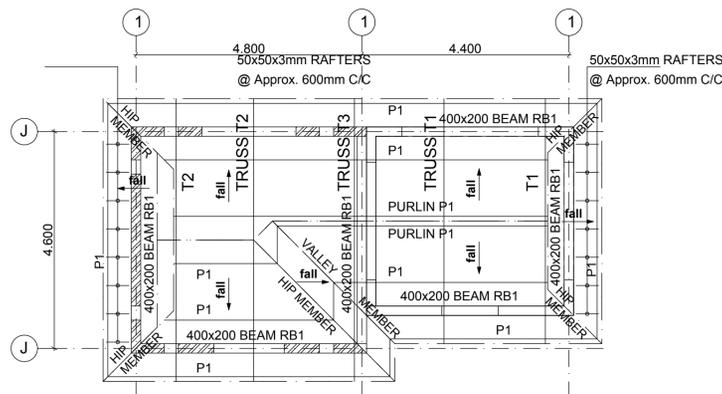
SECTION A-A **SECTION B-B**



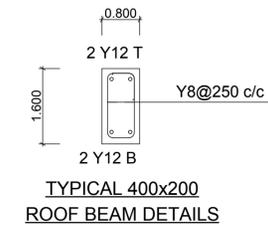
RAMP SECTION



FOUNDATION LAYOUT
Scale: 1:75



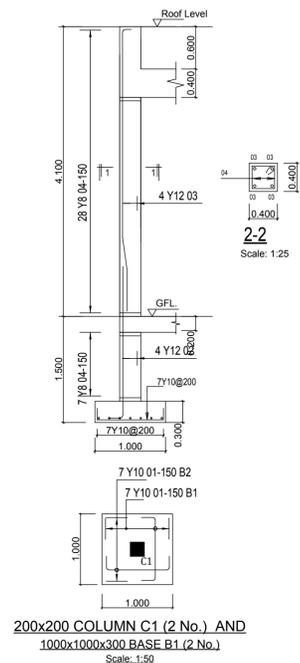
ROOF TRUSS LAYOUT
Scale: 1:100



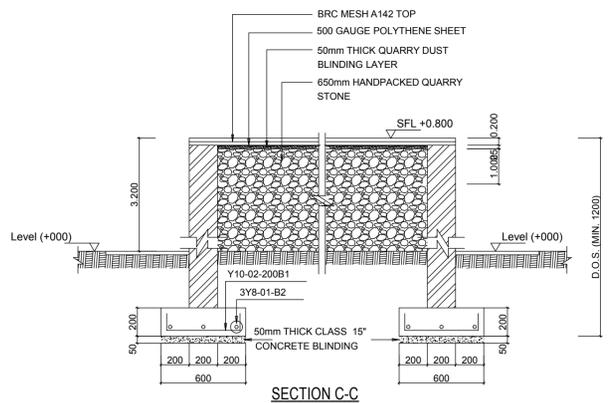
TYPICAL 400x200 ROOF BEAM DETAILS

STRUCTURAL STEEL

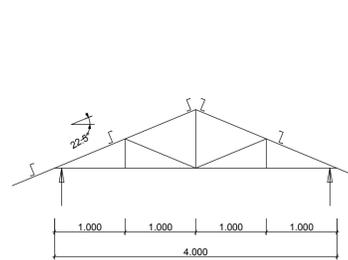
1. ALL WELDS TO BE FREE FROM SLAG SPUTTER TO A TOTAL LEG LENGTH OF 6mm.
2. ALL STRUCTURAL STEEL TO BE PAINTED WITH TWO COATS OF ZINC CHROMATE PRIMER, ONE AFTER FABRICATION AND ONE AFTER ERECTION.
3. ALL BOLTS TO BE GRADE 8.8 BOLTS TO B. S 4190, COMPLETE WITH NUTS AND WASHERS
4. MINIMUM BOLT EDGE DISTANCE - 1.75x Ø
MINIMUM BOLT CENTERS - 2.5 x Ø
4. PURLIN P1 - ZP 40 (75x50x2mm)
4. RAFTERS - 50x50x3mm SHS



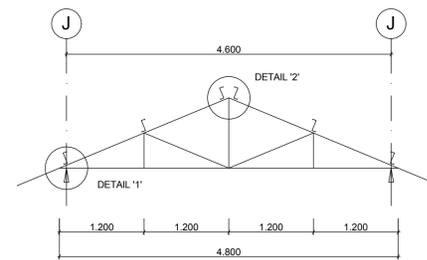
200x200 COLUMN C1 (2 No.) AND 1000x1000x300 BASE B1 (2 No.)
Scale: 1:50



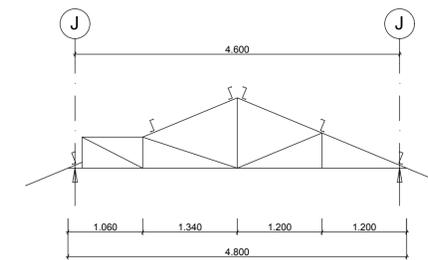
SECTION C-C



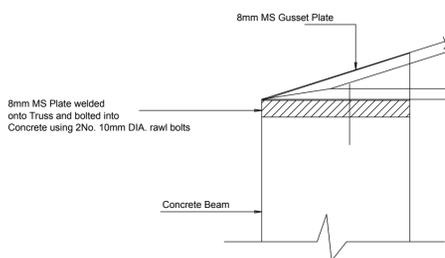
TRUSS T1 (2 No.)
EXTERNAL MEMBERS 75x75x3mm SHS
INTERNAL MEMBERS 50x50x3mm SHS
ALL STEEL PURLINS - ZP 40 (75x50x2mm)



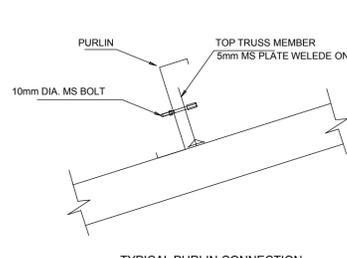
TRUSS T1 (2 No.)
EXTERNAL MEMBERS 75x75x3mm SHS
INTERNAL MEMBERS 50x50x3mm SHS
ALL STEEL PURLINS - ZP 40 (75x50x2mm)



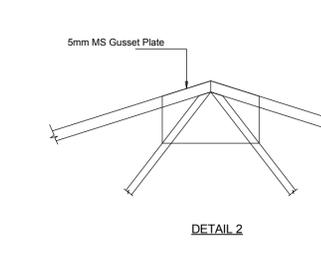
TRUSS T3 (1 No.)
EXTERNAL MEMBERS 75x75x3mm SHS
INTERNAL MEMBERS 50x50x3mm SHS
ALL STEEL PURLINS - ZP 40 (75x50x2mm)



DETAIL 1



TYPICAL PURLIN CONNECTION



DETAIL 2

Project
PROPOSED LIQUID NITROGEN PLANT AT KONDELE RESEARCH CENTER FOR WRP, KISUMU COUNTY.
PR 4924965 MRU LN2 House Construction
DRAWINGS.

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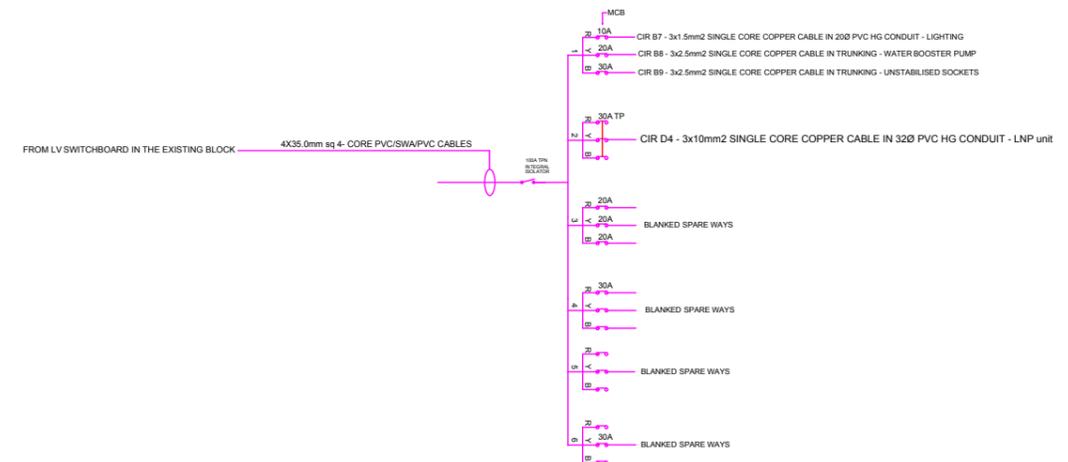
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No.	Revisions	Description

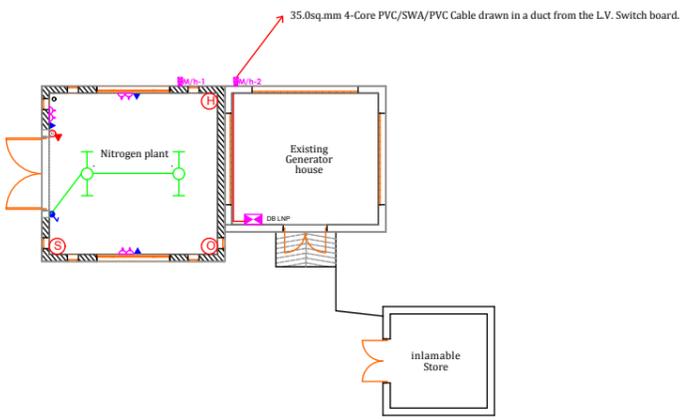
No.	Revisions	Description

Scale: As shown Date: NOVEMBER 2015 Sheet No. S01 Job no. 015 - 014/02

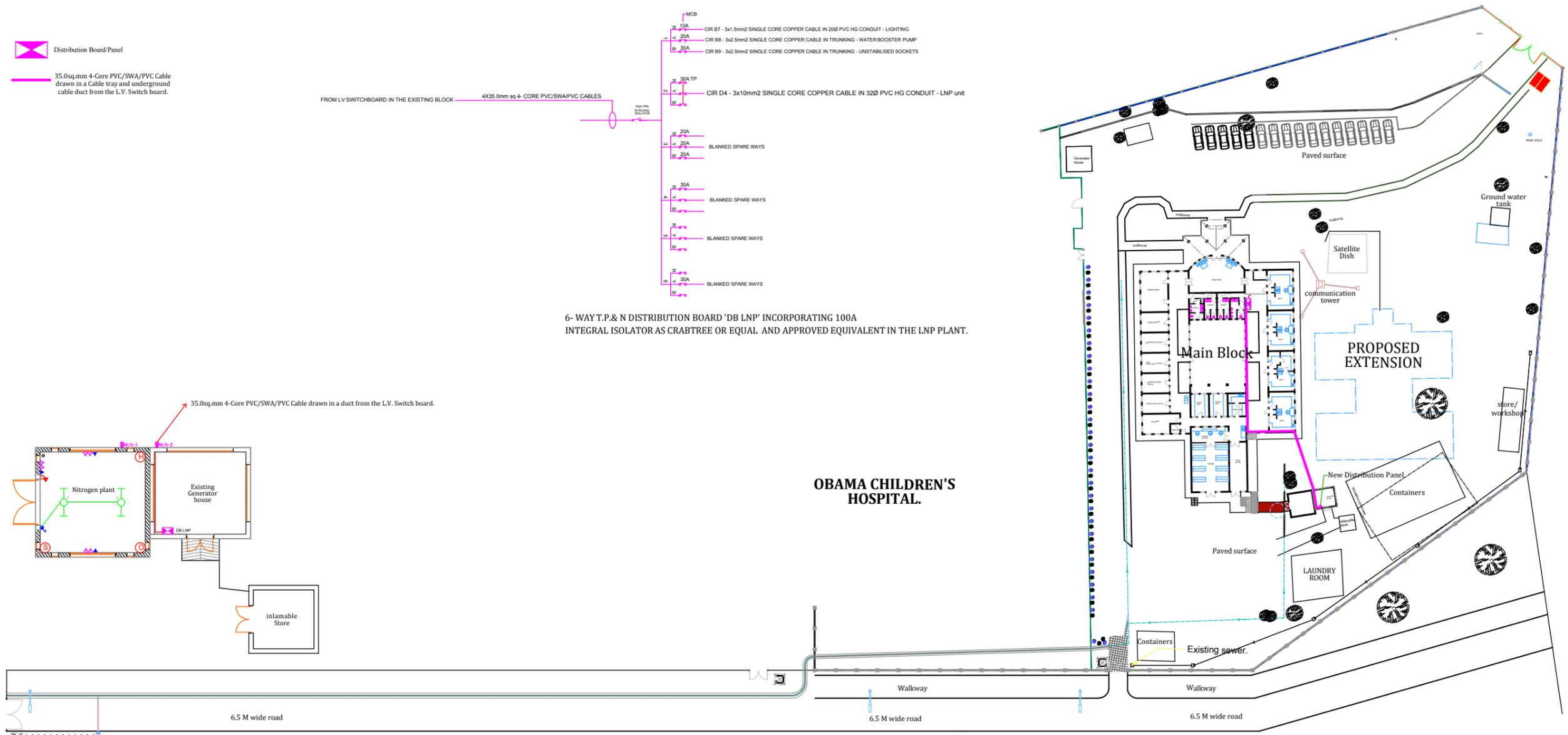
 Distribution Board/Panel
 35.0sq.mm 4-Core PVC/SWA/PVC Cable drawn in a Cable tray and underground cable duct from the L.V. Switch board.



6- WAY T.P. & N DISTRIBUTION BOARD 'DB LNP' INCORPORATING 100A INTEGRAL ISOLATOR AS CRABTREE OR EQUAL AND APPROVED EQUIVALENT IN THE LNP PLANT.



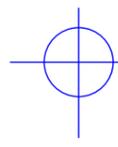
OBAMA CHILDREN'S HOSPITAL.



ALL DIMENSIONS AND LEVELS ARE TO BE VERIFIED ON SITE BY THE CONTRACTOR BEFORE COMMENCING ANY WORK.

- NOTES:**
1. All dimensions are in mm unless otherwise stated.
 2. All lighting switches shall be mounted at the height of 1350mm aff unless otherwise stated.
 3. All socket outlets shall be mounted at the height of 300mm a.f.f.l unless otherwise stated.
 4. All distribution boards and consumer units shall be mounted at the height of 1800mm a.f.f.l unless tated otherwise.
 5. All lighting circuits shall be 2X1.5 sq. mm PVC SC + 1.5 mm e.c.c copper cables unless otherwise specified.
 6. All ring mains circuits shall be 2X2.5 sq. mm PVC SC + 2.5 mm e.c.c copper cables unless otherwise specified.
 7. The copyright of this drawing is vested in the Engineers and it must not be used or reproduced without their express authority.
 8. This drawing shall be read in conjunction with the architects drawing. any discrepancies MUST be reported to the Engineers.
 9. This drawing must be checked against existing site conditions and any discrepancy reported to the Engineers.
 10. All instant showers to be fully wired.

KEMRI GROUNDS.


KONDELE SITE LAYOUT
 Scale 1: 1000

Project
PROPOSED KONDELE RENOVATION WORKS FOR WRP, KISUMU COUNTY.
 PR 4924965 MRU LN2 House Construction
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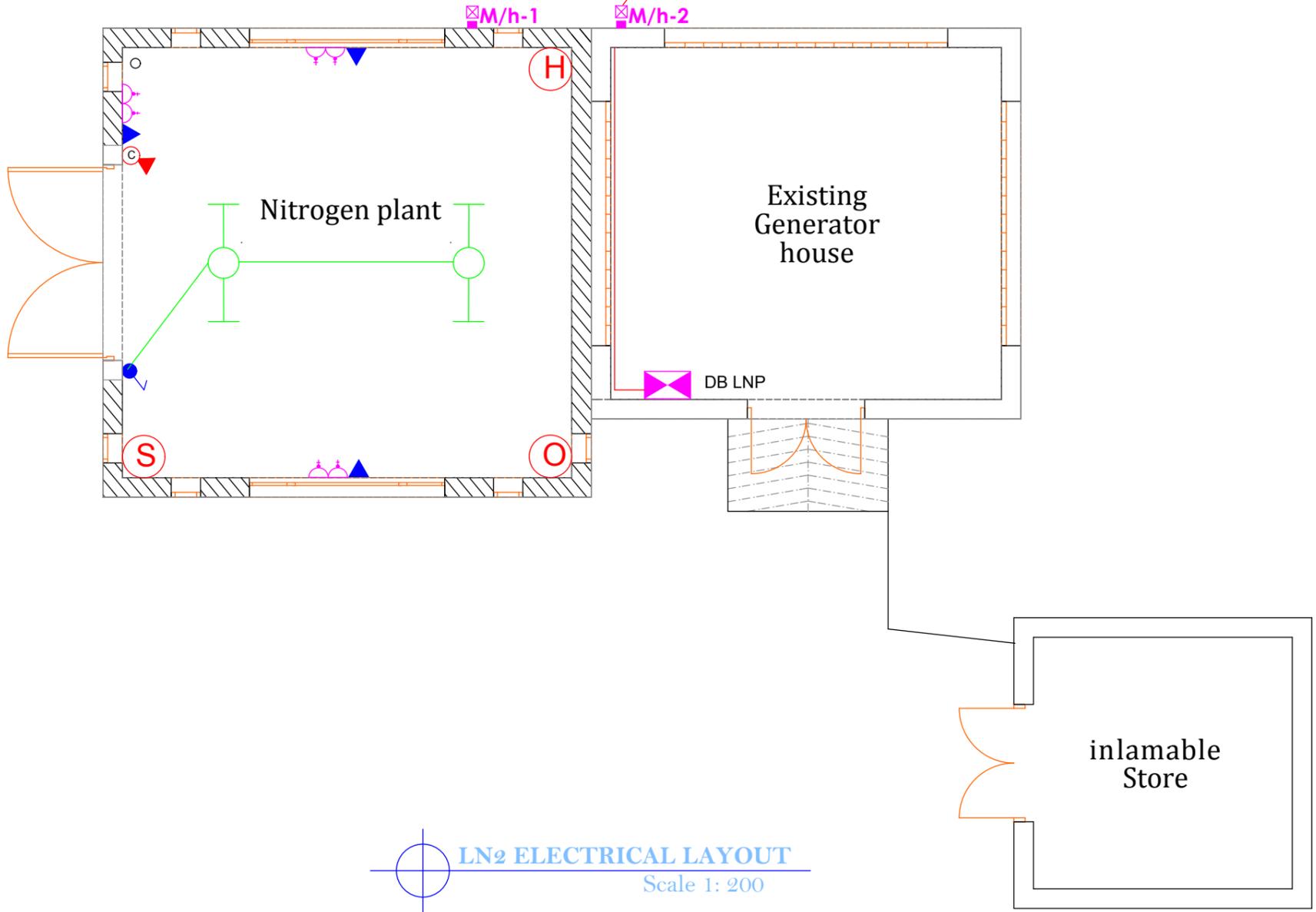
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Scale: As shown
 Date: NOVEMBER 2015
 Sheet No. E01
 Job no.015 - 014/02

35.0sq.mm 4-Core PVC/SWA/PVC Cable drawn in a duct from the L.V. Switch board.



LN₂ ELECTRICAL LAYOUT
Scale 1: 200

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PROPOSED KONDELE RENOVATION WORKS FOR WRP, KISUMU COUNTY.
 PR 4924965 MRU LN2 House Construction
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No.	Revisions	Description

No.	Revisions	Description

Scale: As shown Date: NOVEMBER 2015 Sheet No. E02
 Job no.015 - 014/02

LEGEND:

	9M galvanized street lighting column with a 1.5m arm for side entry lighting fitting complete with housing for 2No. Batteries, power control box, support mechanism for 2No. PV solar panels and all necessary accessories, as manufactured by Power Technics Ltd or other equal and approved.
	5 Metres, Top Post entry, Galvanised steel security lighting posts complete with Top Post lantern.
	1200mm, 1 x 36w Aquaproof Fluorescent batten fitting of slim crosssection. As Thorn Popular Pack Batten.
	CLOSED CIRCUIT CAMERA
	Television Outlet Point
	20A DP Switch With Pilot Light
	Consumer Unit / Distribution Board
	13A Twin Switched Socket Outlet/13A Twin Switched Waterproof Socket Outlet
	10A, one/two/intermediate way one/two/three gang switches with screw covers.
	3-Phase Isolator point
	Cable loop-in Box
	
	
	20A DP Switch With Pilot Light
	SMOKE DETECTOR
	HEAT DETECTOR
	OXYGEN SENSOR
	COMPUTER/TELEPHONE OUTLET POINT AND PLATE.
	6 WAY TPN DISTRIBUTION BOARD.

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TENDER DRAWING

Project
PROPOSED KONDELE RENOVATION
WORKS FOR WRP,
KISUMU COUNTY.

PR 4924965 MRU LN2 House Construction

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No.	Revisions	Description

Scale: As shown Date: NOVEMBER 2015 Sheet No. E03
Job no.015 - 014/02