

# Mechanical & Electrical Drawings

## GOVERNMENT OF UGANDA



**UGANDA COFFEE DEVELOPMENT AUTHORITY**  
**PLOT 35 JINJA ROAD,**  
**P.O.BOX 7267, KAMPALA, UGANDA**



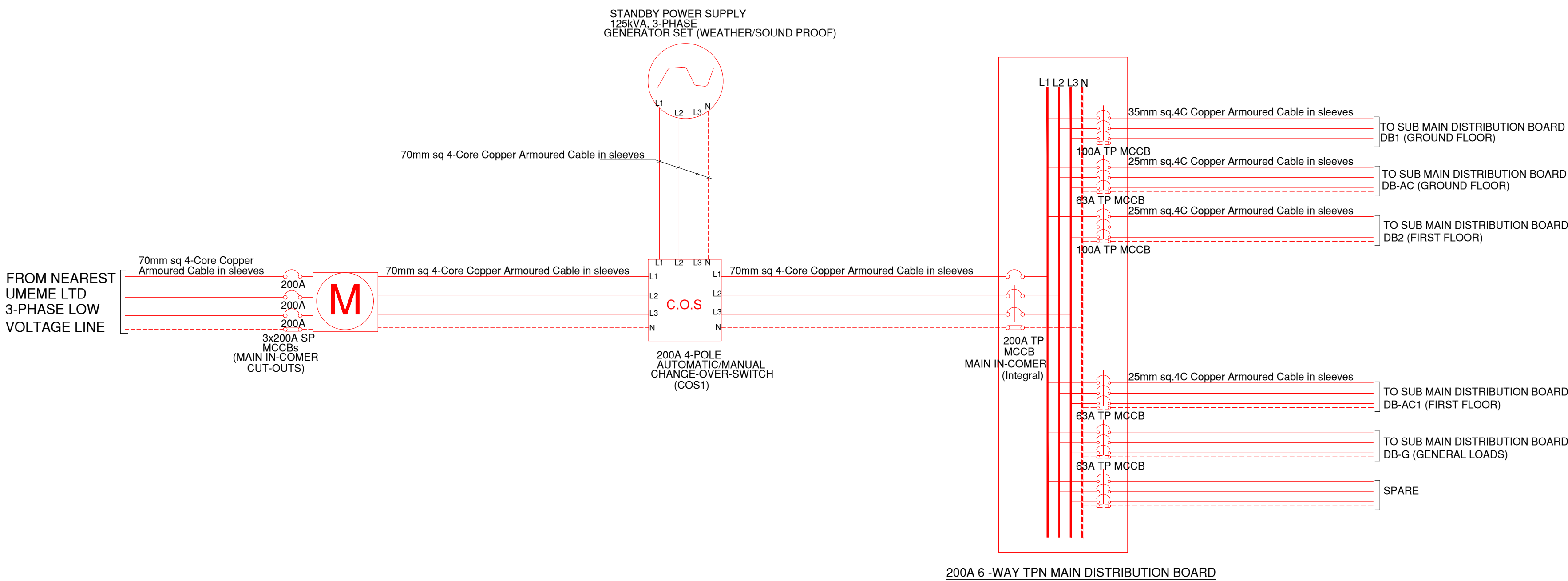
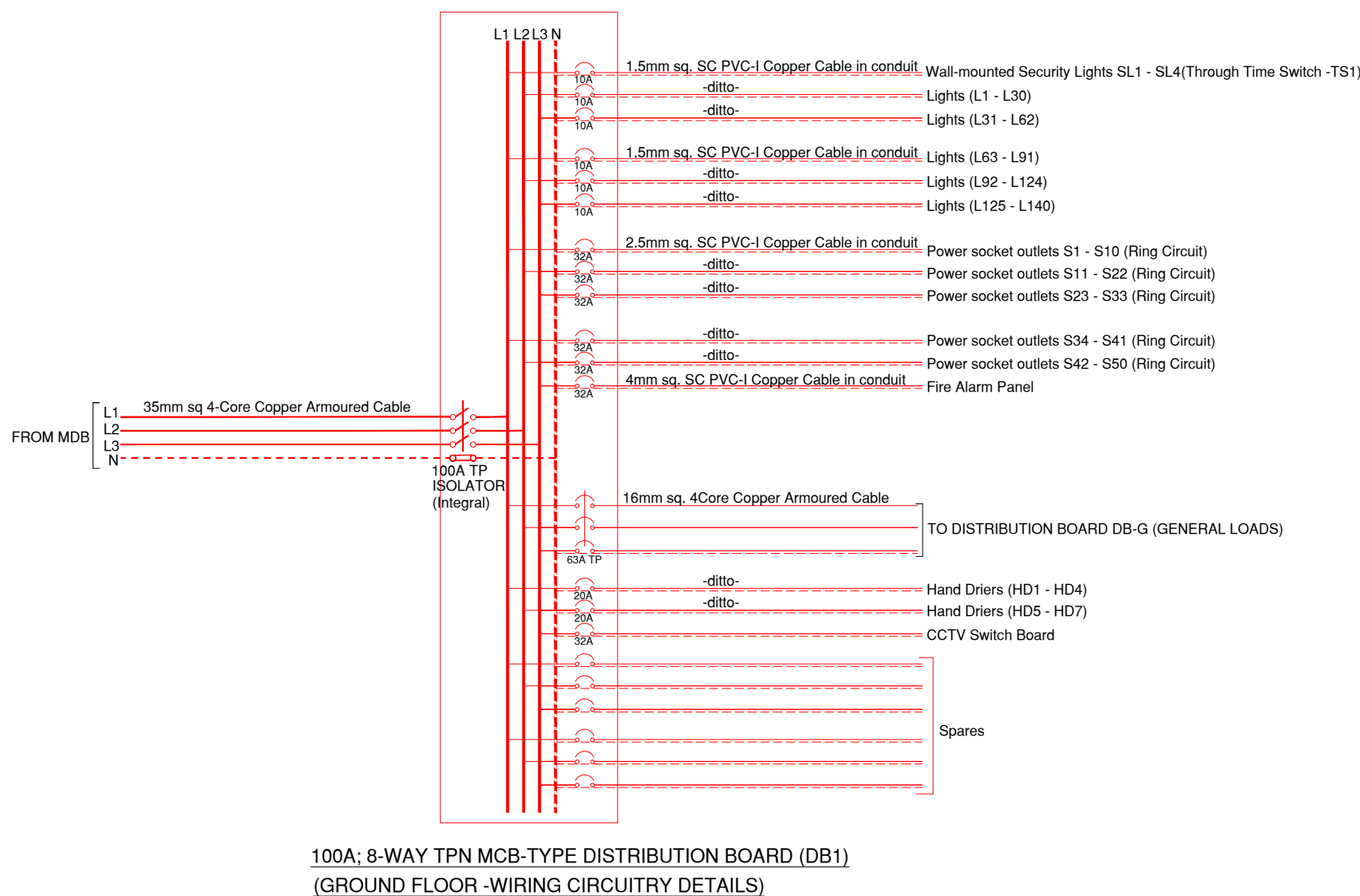
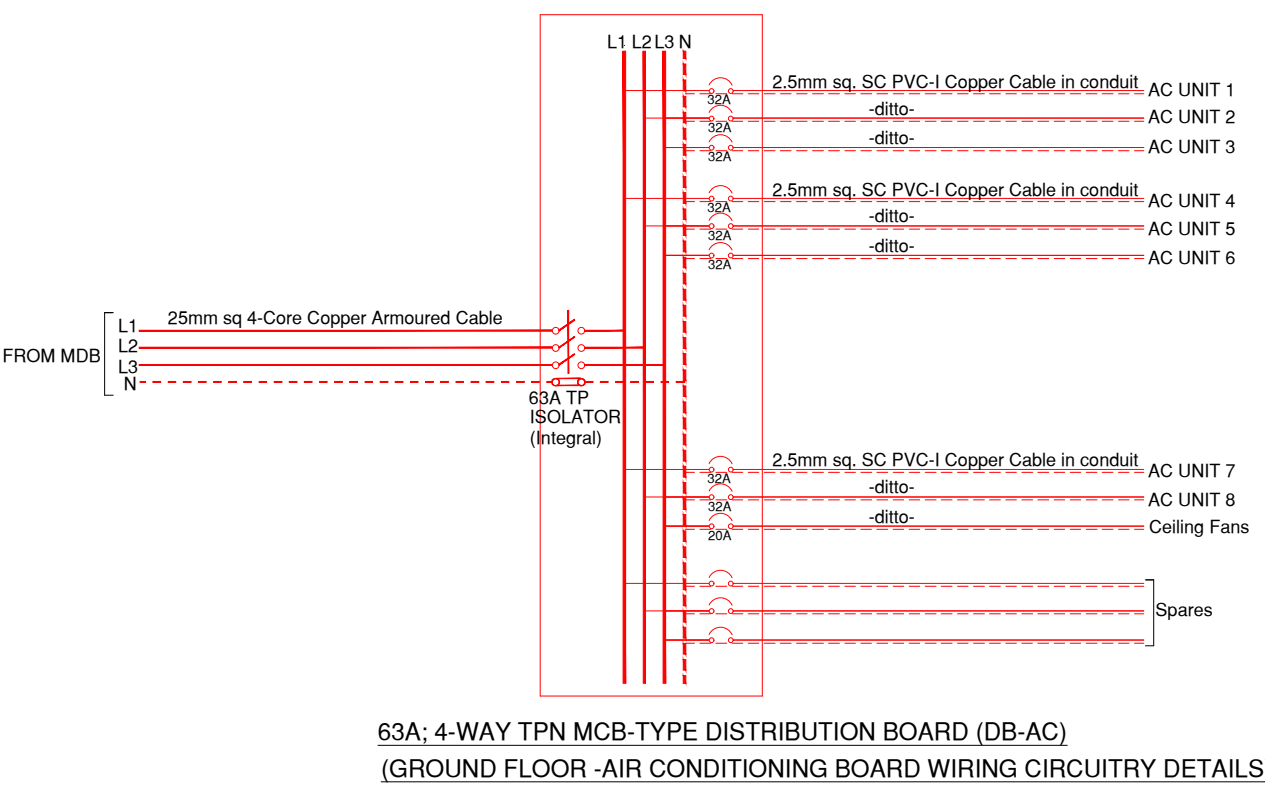
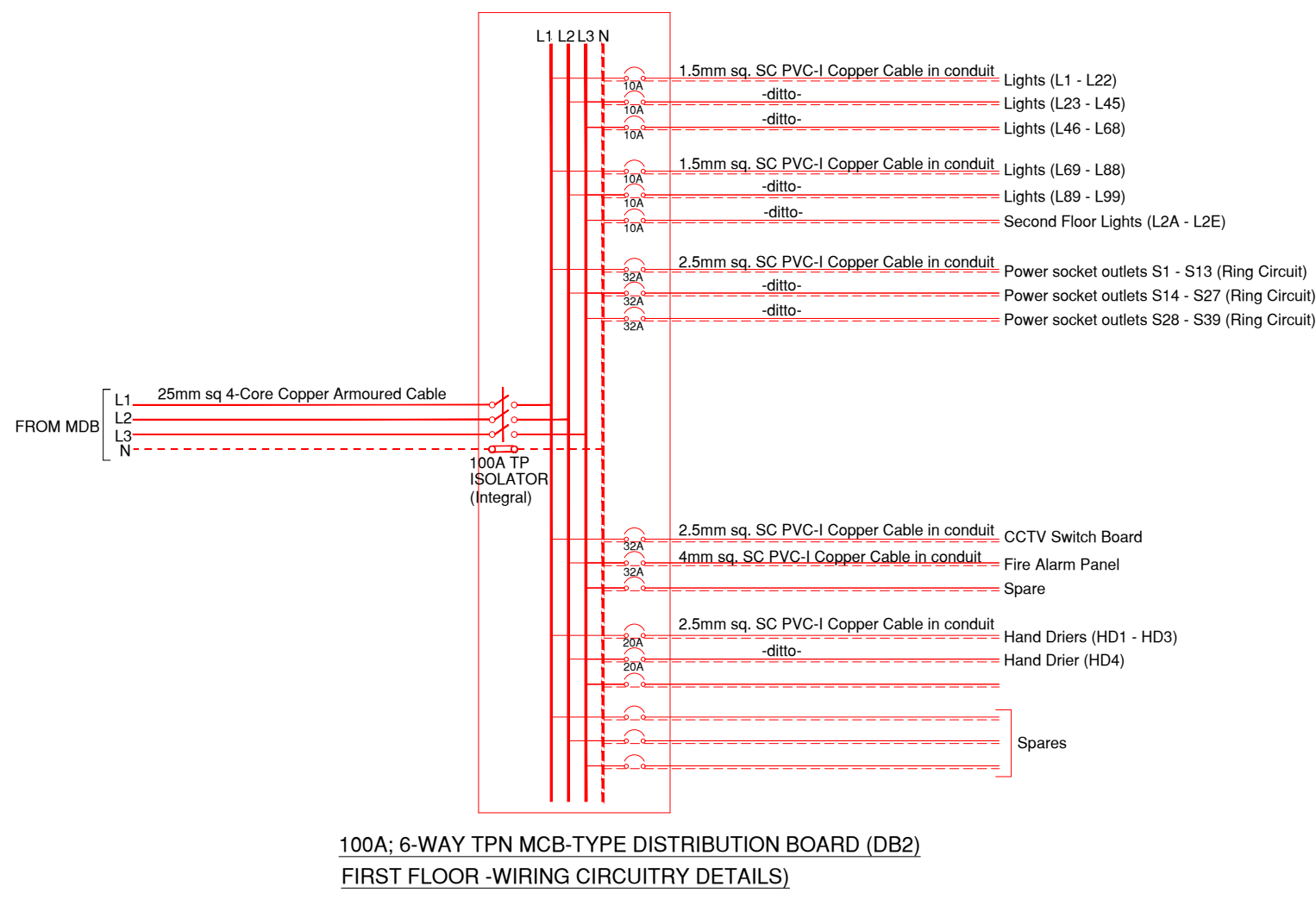
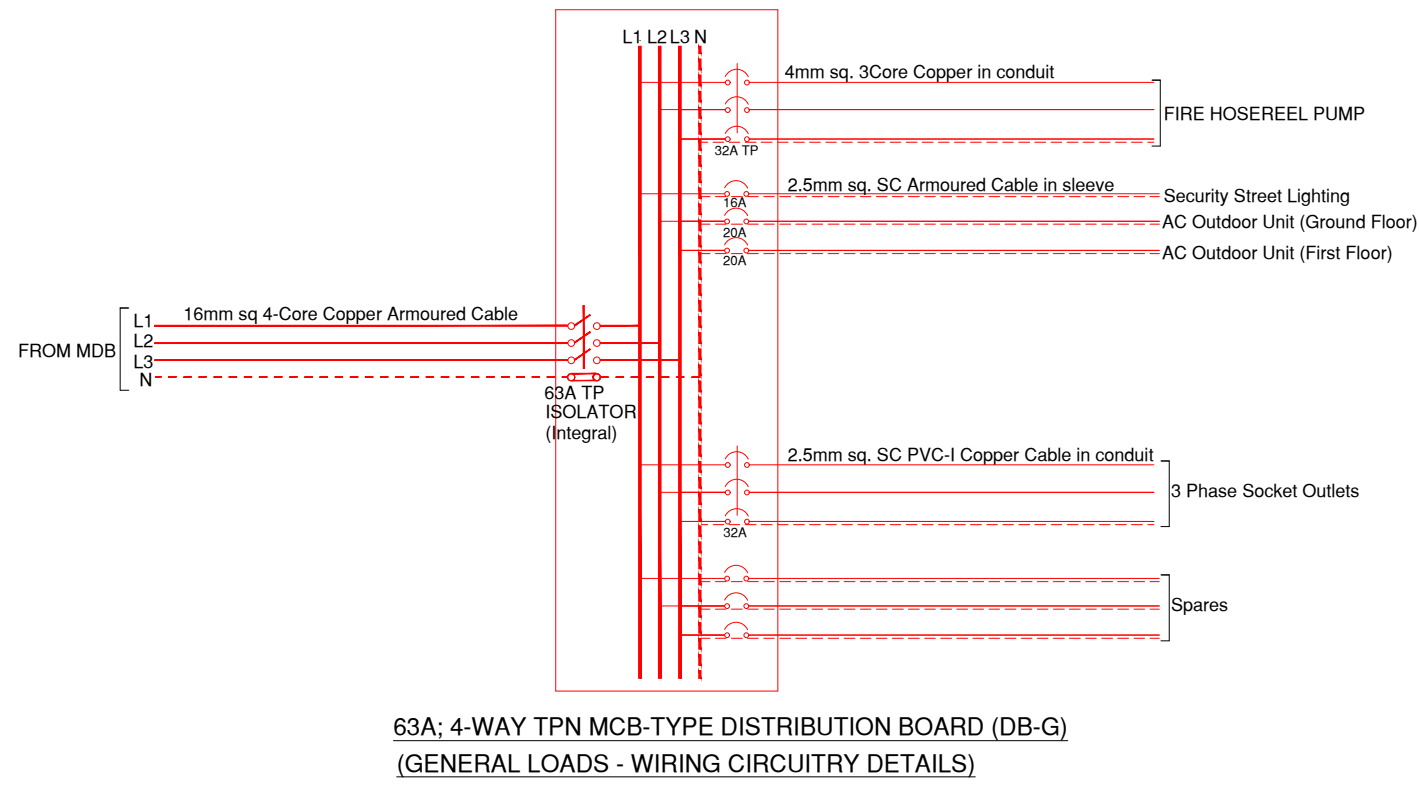
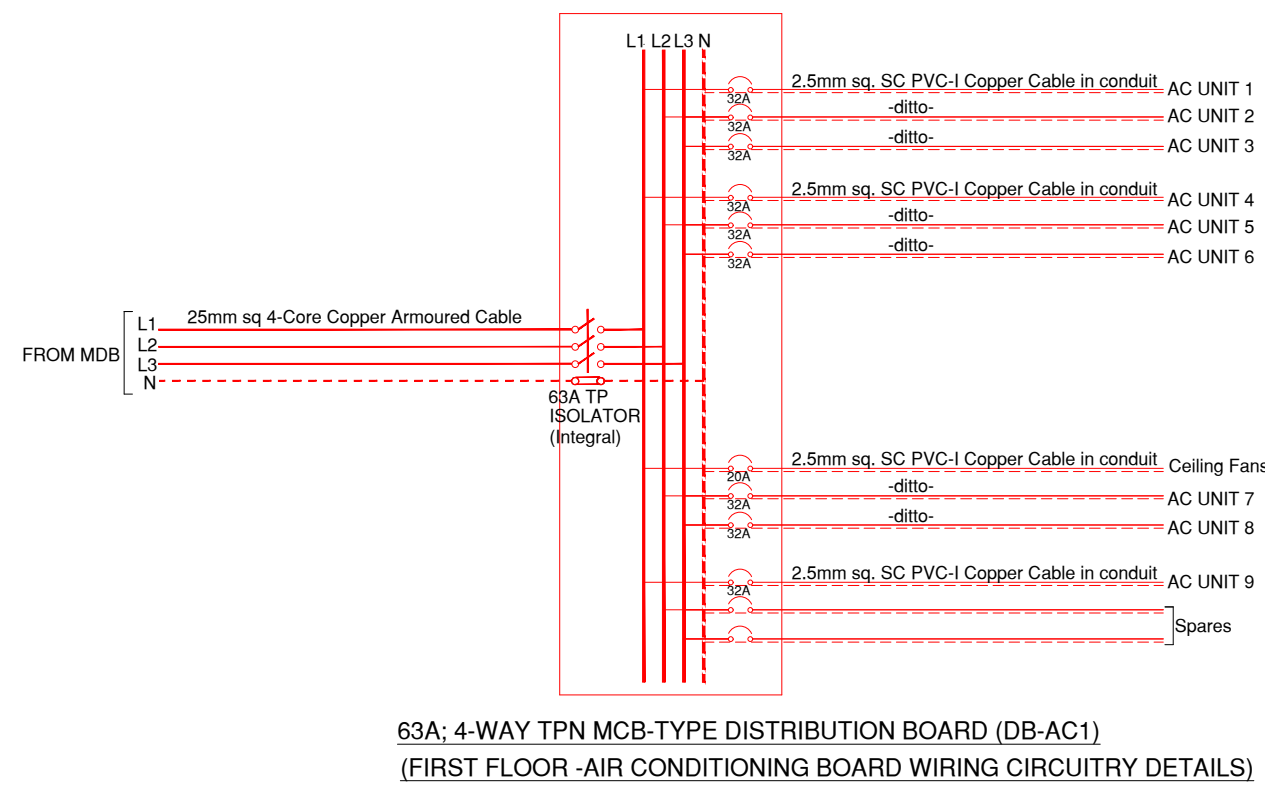
December 2022

**SANDHBOLT LIMITED**

P.O BOX 1224 KAMPALA, UGANDA  
Email: [info@sandhbolt.com](mailto:info@sandhbolt.com)

*Time Cost & Quality*





(MAINS/STANDBY POWER SCHEMATIC WIRING DETAILS)

				Client:	GOVERNMENT OF UGANDA UGANDA COFFEE DEVELOPMENT AUTHORITY PLOT 35 JINJA ROAD, P.O.BOX 7267, KAMPALA, UGANDA	Consultants : SANDHBOLT LIMITED P.O BOX 1224 KAMPALA, UGANDA Email: info@sandhbolt.com Time Cost & Quality	Project : CONSULTANCY SERVICES FOR THE DETAILED ENGINEERING DESIGN OF THE PROPOSED REGIONAL OFFICES (RWENZORI) AND MODERN COFFEE ANALYTICAL LABORATORY FOR UGANDA COFFEE DEVELOPMENT AUTHORITY.	Drawn by : NK
							Drawing Title: POWER SCHEMATICS WIRING DETAILS - ELECTRICAL INSTALLATIONS	Checked by : CM
								Approved by : CM
								Scale : 1:1000
								Drawing no.: SB22/UCDA/E01
Index	Description of amendment	Date	Name					Date : September 2022





LEGEND

Symbols	Descriptions
	13A Twin switched Socket Outlet (Raw Power)
	Telephone /Data Outlet
	Television Outlet
	3 Compartment Trunking
	Automatic Hand Drier
	Distribution Board
	Floor Box
	13A One gang socket outlet and data outlet for Wifi outlets in the ceiling

Index	Description of amendment	Date	Name

Client:



GOVERNMENT OF UGANDA

UGANDA COFFEE DEVELOPMENT AUTHORITY

PLOT 35 JINJA ROAD,

P.O.BOX 7267,KAMPALA, UGANDA

Consultants :

SANDHBOLT LIMITED

P.O BOX 1224 KAMPALA, UGANDA

Email: info@sandhbolt.com

Time Cost & Quality



Project :

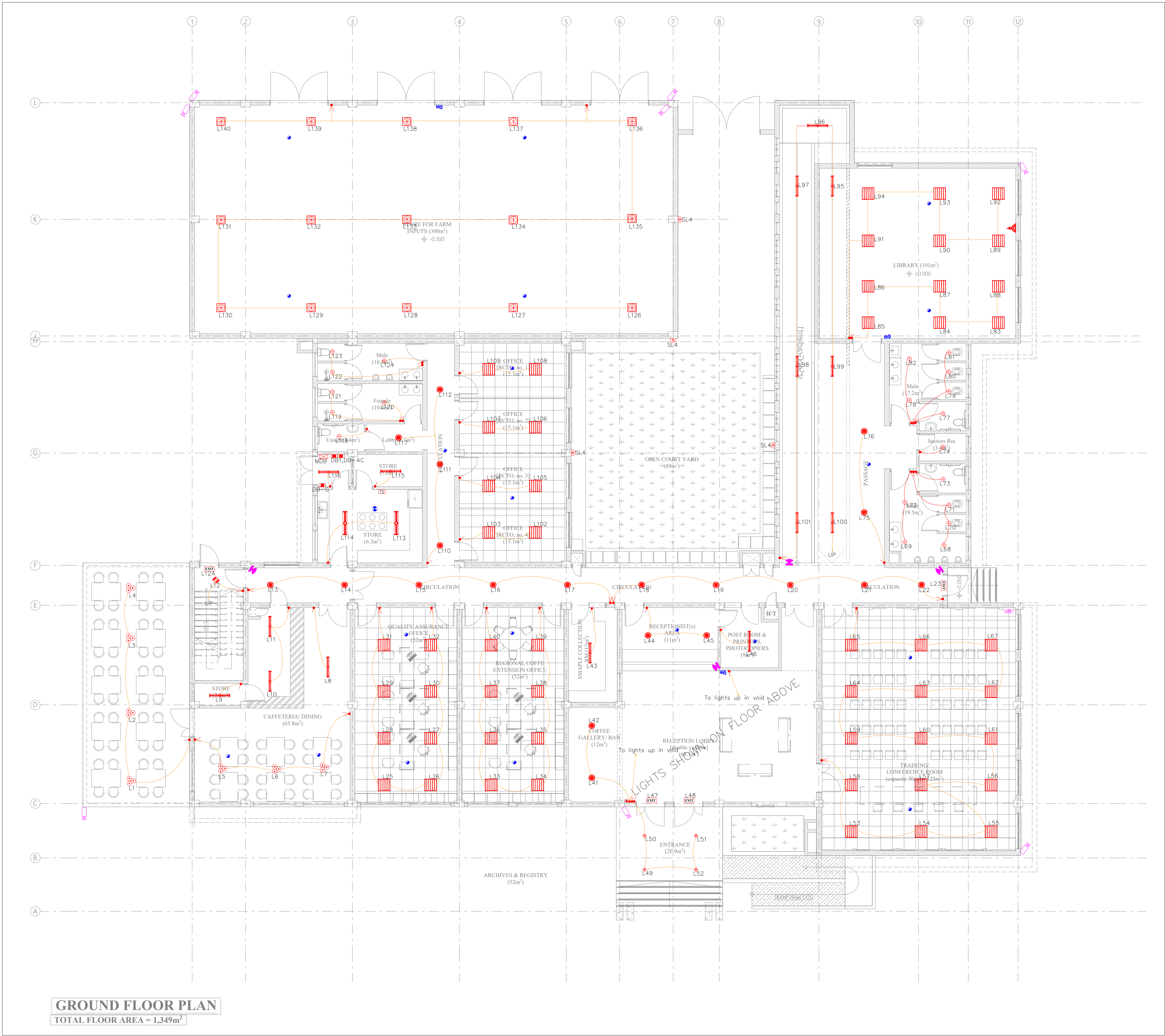
CONSULTANCY SERVICES FOR THE DETAILED ENGINEERING DESIGN OF THE PROPOSED REGIONAL OFFICES (RWENZORI) AND MODERN COFFEE ANALYTICAL LABORATORY FOR UGANDA COFFEE DEVELOPMENT AUTHORITY.

Drawing Title:

GROUND FLOOR - SMALL POWER LAYOUT



Drawn by : NK	Drawing no.:
Checked by : CM	SB22/UCDA/E02
Approved by : CM	
Scale : 1:1000	
Date : September 2022	



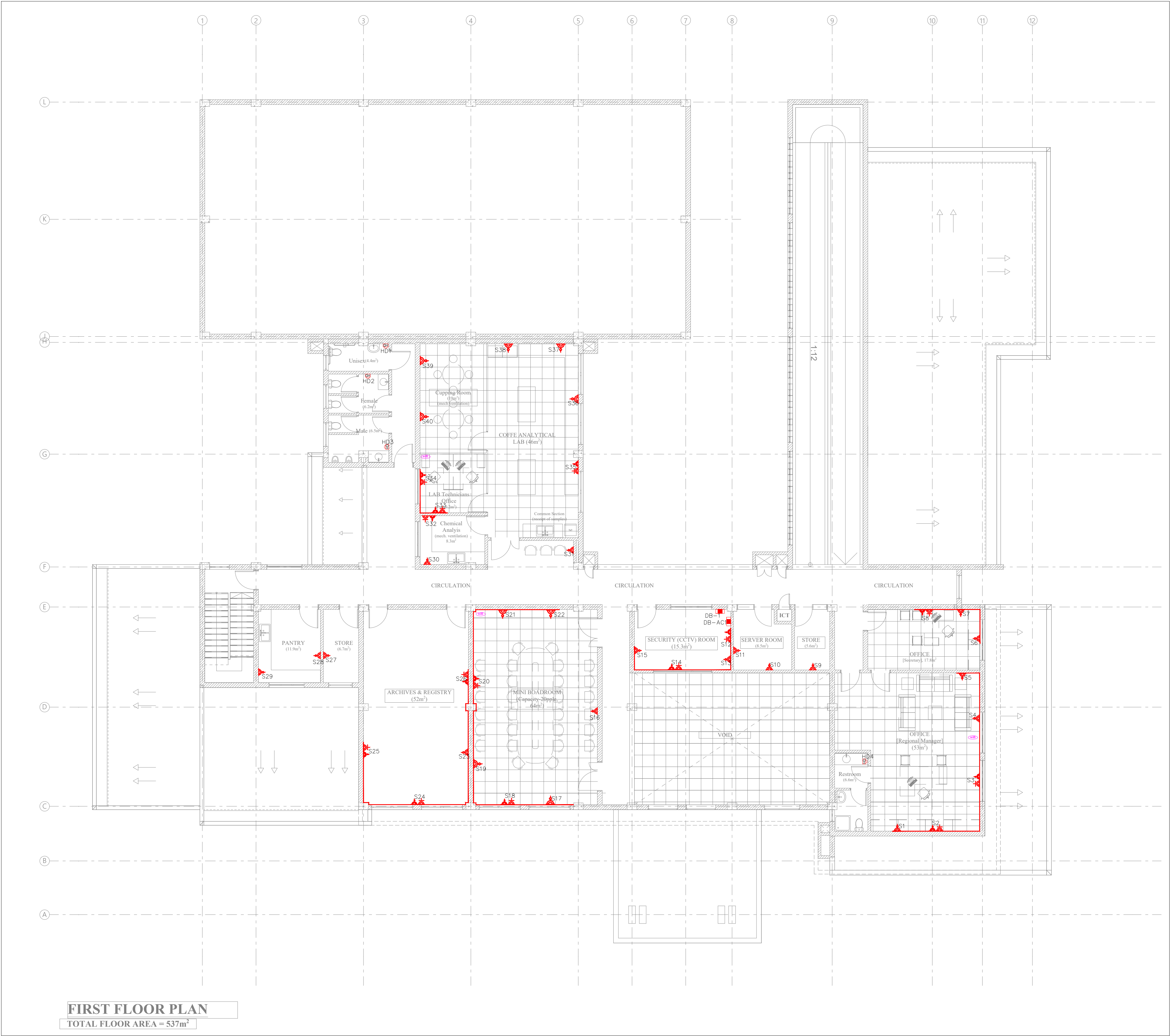


LEGEND	
Symbols	
	10A 1-gang 1-way Switch
	10A 1-gang 2-way switch
	10A 2-gang 1-way switch
	600x600 LED Panel Light
	1x18W LED Fluorescent Lighting
	2x18W LED Fluorescent Lighting
	Ceiling Recessed Corridor Bulkheads
	Ceiling Recessed DownLight
	Ceiling mounted LED Bulkhead
	Emergency Exit Signage Light
	600x600 LED Panel Light
	Smoke Detector
	Heat Detector
	Alarm Bell
	Breakglass call point
	Fire Alarm Panel
	CCTV Dome Camera
	CCTV Bullet Camera

Index	Description of amendment	Date	Name

Client:		Consultants :		Project :		Drawn by : NK					
				<b>GOVERNMENT OF UGANDA</b> <b>UGANDA COFFEE DEVELOPMENT AUTHORITY</b> <b>PLOT 35 JINJA ROAD,</b> <b>P.O.BOX 7267,KAMPALA, UGANDA</b>		<b>SANDHBOLT LIMITED</b> P.O BOX 1224 KAMPALA, UGANDA Email: info@sandhbolt.com <i>Time Cost &amp; Quality</i>		CONSULTANCY SERVICES FOR THE DETAILED ENGINEERING DESIGN OF THE PROPOSED REGIONAL OFFICES (RWENZORI) AND MODERN COFFEE ANALYTICAL LABORATORY FOR UGANDA COFFEE DEVELOPMENT AUTHORITY.		Checked by : CM	
				Drawing Title:		Approved by : CM					
				<b>GROUND FLOOR - LIGHTING, FIRE DETECTION, CCTV LAYOUT</b>		Scale : 1:1000		Drawing no.:			
						Date : September 2022		<b>SB22/UCDA/E03</b>			





LEGEND	
Symbols	Descriptions
	13A Twin switched Socket Outlet (Raw Power)
	Telephone /Data Outlet
	Television Outlet
	3 Compartment Trunking
	Automatic Hand Drier
	Distribution Board
	Floor Box
	13A One gang socket outlet and data outlet for Wifi outlets in the ceiling

Index	Description of amendment	Date	Name

Client:



GOVERNMENT OF UGANDA

UGANDA COFFEE DEVELOPMENT AUTHORITY

PLOT 35 JINJA ROAD,

P.O.BOX 7267,KAMPALA, UGANDA



Consultants :

SANDBOLT LIMITED

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Email: info@sandbolt.com

Time Cost & Quality



Project :

CONSULTANCY SERVICES FOR THE DETAILED ENGINEERING DESIGN OF THE PROPOSED REGIONAL OFFICES (RWENZORI) AND MODERN COFFEE ANALYTICAL LABORATORY FOR UGANDA COFFEE DEVELOPMENT AUTHORITY.

Drawing Title:

FIRST FLOOR - SMALL POWER LAYOUT

Drawn by : NK

Checked by : CM

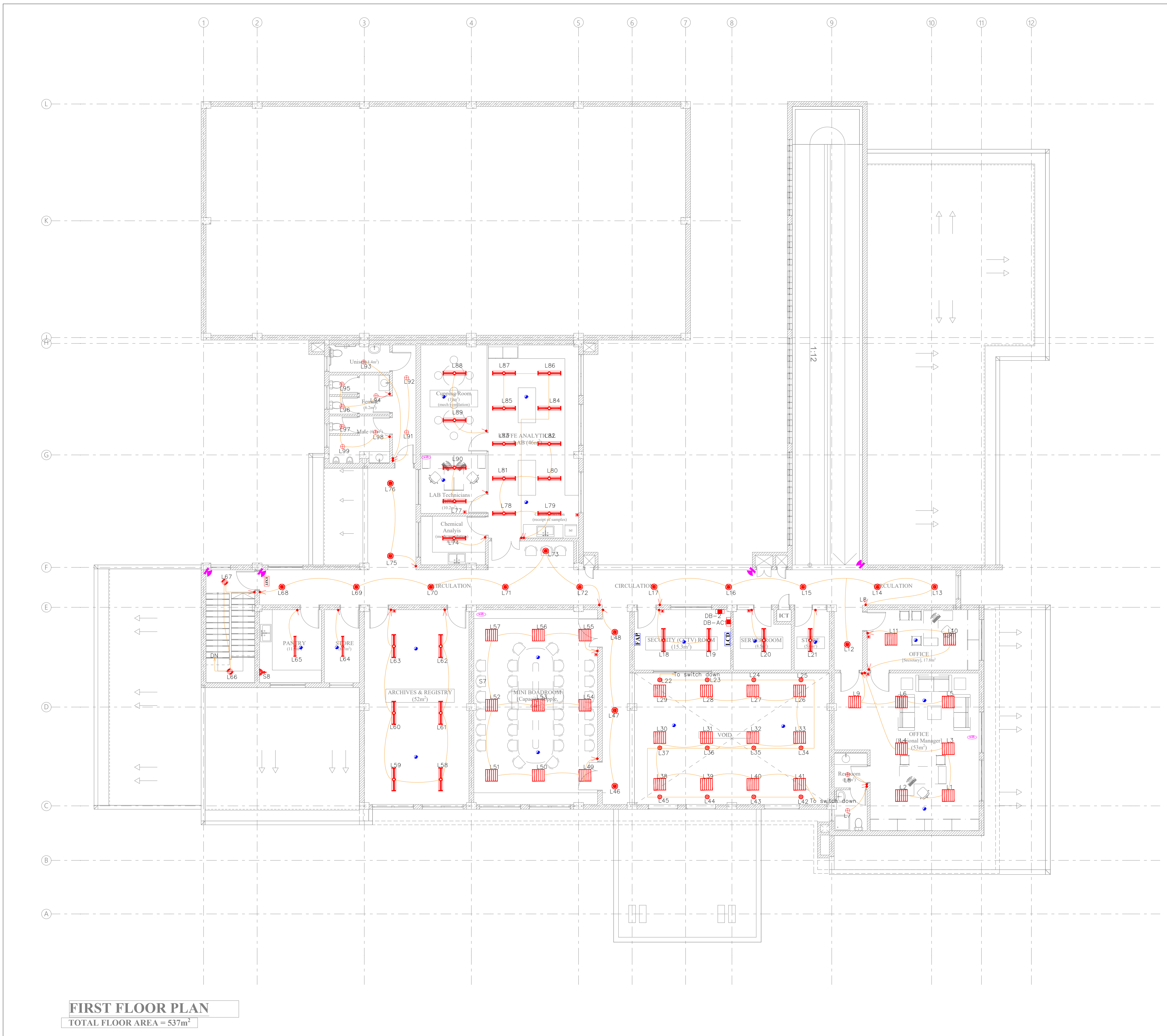
Approved by : CM

Scale : 1:1000

Date : September 2022

Drawing no.:


SB22/UCDA/E04



LEGEND	
Symbols	
	10A 1-gang 1-way Switch
	10A 1-gang 2-way switch
	10A 2-gang 1-way switch
	600x600 LED Panel Light
	1x18W LED Flourescent Lighting
	2x18W LED Flourescent Lighting
	Ceiling Recessed Corridor Bulkheads
	Ceiling Recessed DownLight
	Ceiling mounted LED Bulkhead
	Emergency Exit Signage Light
	600x600 LED Panel Light
	Smoke Detector
	Heat Detector
	Alarm Bell
	Breakglass call point
	Fire Alarm Panel
	CCTV Dome Camera
	CCTV Bullet Camera
	Display Flat Screen
	Wireless Internet Point

Index	Description of amendment	Date	Name

Client:



GOVERNMENT OF UGANDA

UGANDA COFFEE DEVELOPMENT AUTHORITY

PLOT 35 JINJA ROAD,

P.O.BOX 7267,KAMPALA, UGANDA



Consultants :

SANDBOLT LIMITED

P.O BOX 1224 KAMPALA, UGANDA

Email: info@sandbolt.com

Time Cost & Quality



Project :

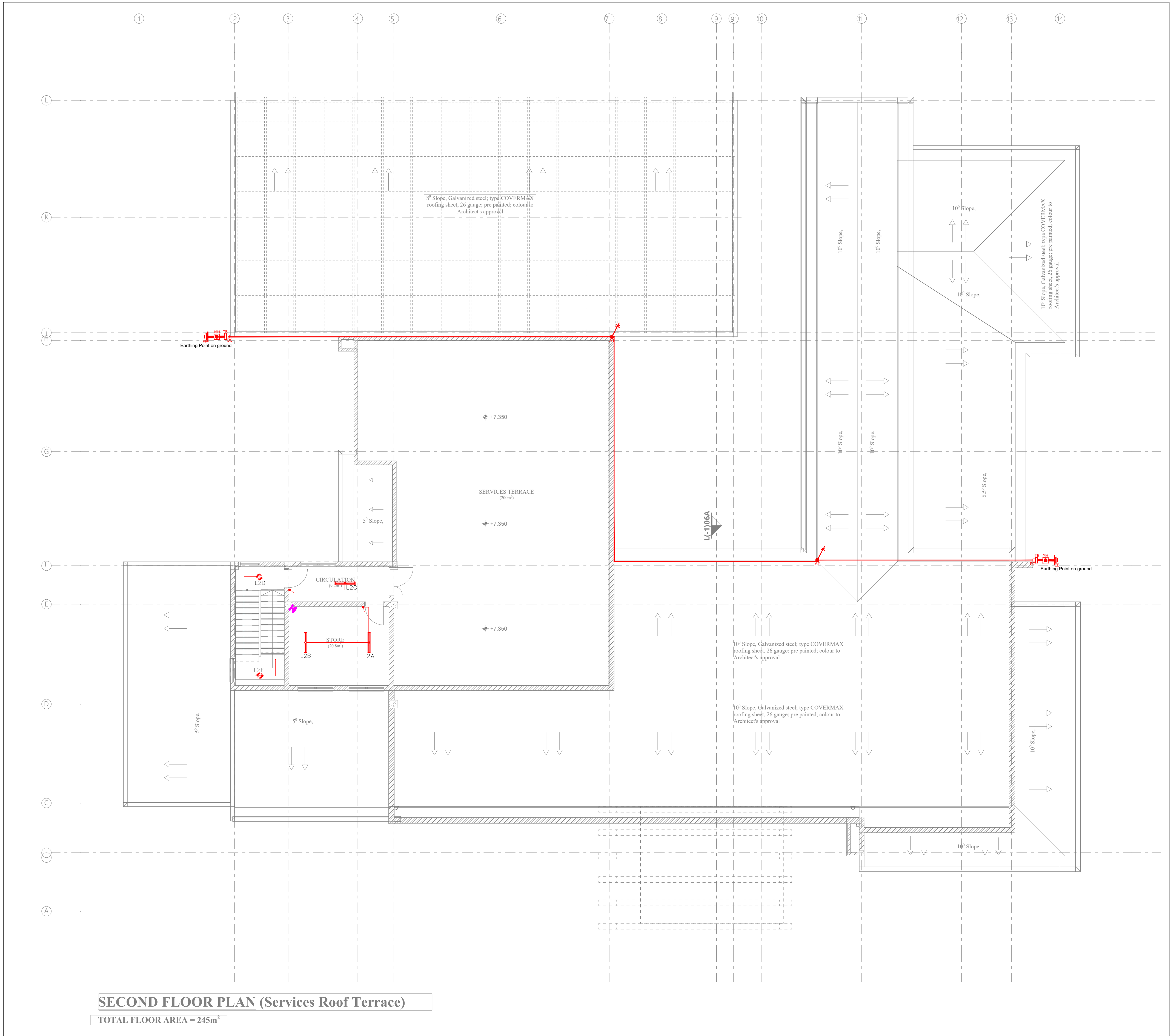
CONSULTANCY SERVICES FOR THE DETAILED ENGINEERING DESIGN OF THE PROPOSED REGIONAL OFFICES (RWENZORI) AND MODERN COFFEE ANALYTICAL LABORATORY FOR UGANDA COFFEE DEVELOPMENT AUTHORITY.

Drawing Title:

FIRST FLOOR - LIGHTING, FIRE DETECTION, CCTV LAYOUT

Drawn by : NK	
Checked by : CM	
Approved by : CM	
Scale : 1:1000	Drawing no.: SB22/UCDA/E05
Date : September 2022	





LEGEND	
Symbols	
	10A 1-GANG 1-WAY SWITCH
	EARTH ELECTRODE
	TEST CLAMP
	AIR TERMINAL
	INSPECTION MANHOLE
	HORIZONTAL CONDUCTOR
	DOWN CONDUCTOR
	1x18W LED FLOURESCENT FITTING
	CCTV DOME CAMERA

				Client:		Consultants :		Project :		Drawn by : NK	
				GOVERNMENT OF UGANDA		SANDHBOLT LIMITED		CONSULTANCY SERVICES FOR THE DETAILED ENGINEERING DESIGN OF THE PROPOSED REGIONAL OFFICES (RWENZORI) AND MODERN COFFEE ANALYTICAL LABORATORY FOR UGANDA COFFEE DEVELOPMENT AUTHORITY.		Checked by : CM	
				UGANDA COFFEE DEVELOPMENT AUTHORITY		P.O BOX 1224 KAMPALA, UGANDA		Drawing Title:		Approved by : CM	
				PLOT 35 JINJA ROAD,		Email: info@sandhbold.com		SECOND FLOOR/SERVICES TERRACE - LIGHTING, CCTV, LIGHTNING PROTECTION LAYOUT		Scale : 1:1000	
				P.O.BOX 7267,KAMPALA, UGANDA		Time Cost & Quality				Date : September 2022	
										Drawing no.: SB22/UCDA/E06	
Index	Description of amendment	Date	Name								





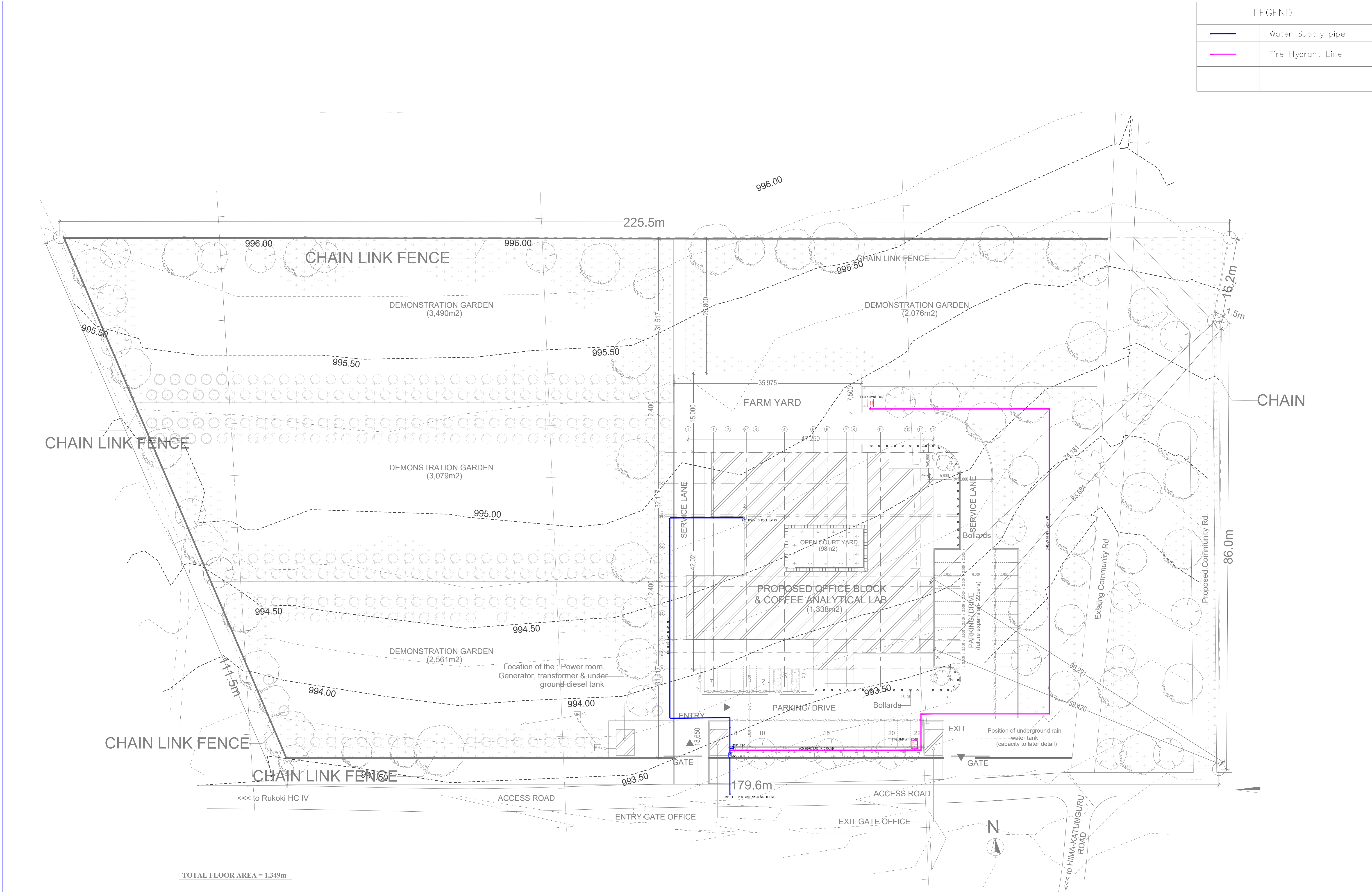









LEGEND	
	Water Supply pipe
	Fire Hydrant Line




Index	Description of amendment	Date	Name

Client:



**GOVERNMENT OF UGANDA**  
**UGANDA COFFEE DEVELOPMENT AUTHORITY**  
PLOT 35 JINJA ROAD,  
P.O.BOX 7267,KAMPALA, UGANDA



Uganda Coffee Development Authority

Consultants :

**SANDHBOLT LIMITED**  
P.O BOX 1224 KAMPALA, UGANDA  
Email: info@sandhbolt.com  
*Time Cost & Quality*



Sandhbolt  
Time, Cost & Quality

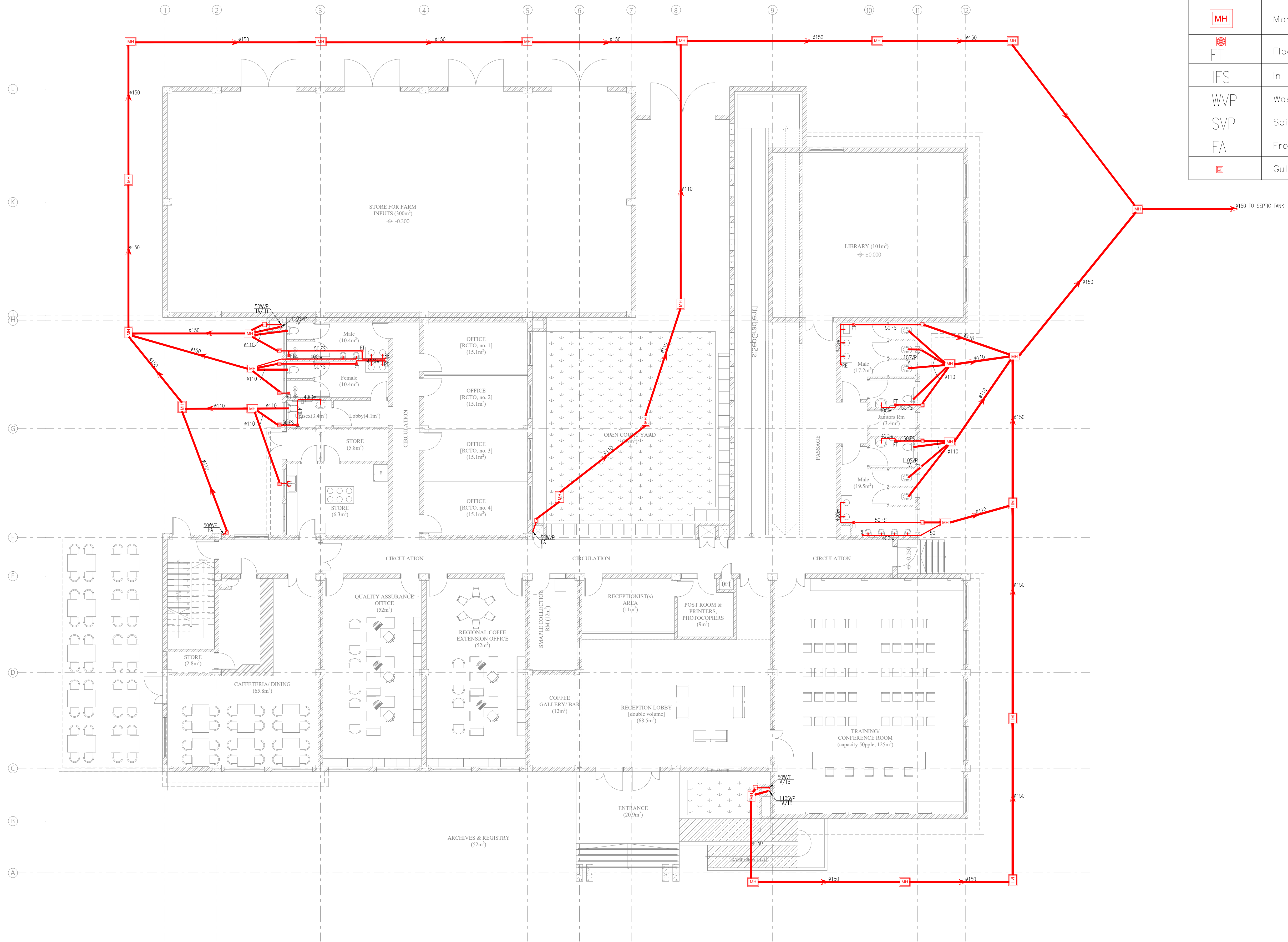
Project : **CONSULTANCY SERVICES FOR THE DETAILED ENGINEERING DESIGN OF THE PROPOSED REGIONAL OFFICES (RWENZORI) AND MODERN COFFEE ANALYTICAL LABORATORY FOR UGANDA COFFEE DEVELOPMENT AUTHORITY.**

Drawing Title: **SITE PLAN - WATER SUPPLY LAYOUT**




Drawn by : **NK**  
Checked by : **TM**  
Approved by : **TM**  
Scale : **1:1000**  
Date : **September 2022**

Drawing no.: **SB22/UCDA/M02**






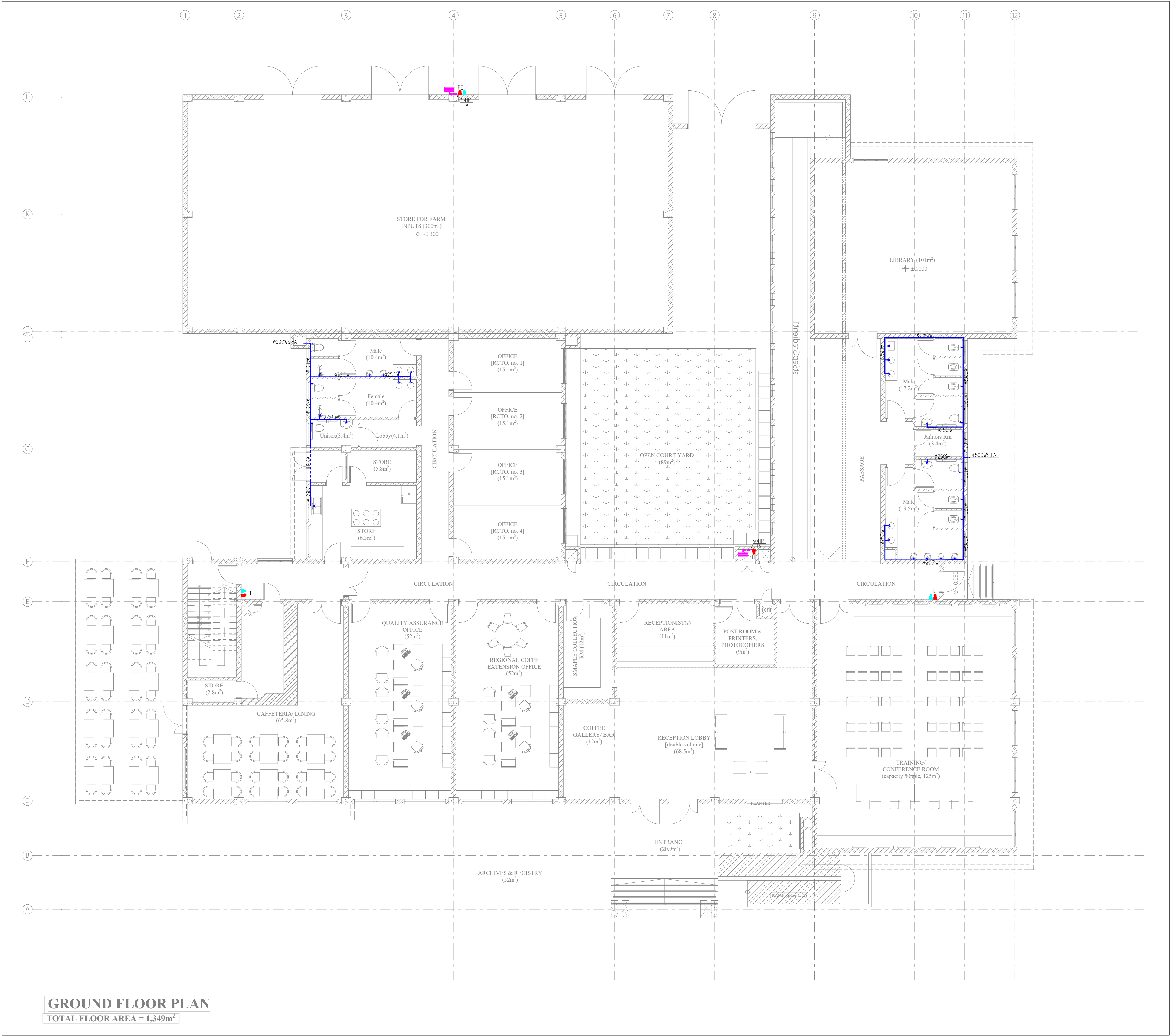


**GROUND FLOOR PLAN**  
TOTAL FLOOR AREA = 1,349m<sup>2</sup>

				Client:		Consultants :		Project :	CONSULTANCY SERVICES FOR THE DETAILED ENGINEERING DESIGN OF THE PROPOSED REGIONAL OFFICES (RWENZORI) AND MODERN COFFEE ANALYTICAL LABORATORY FOR UGANDA COFFEE DEVELOPMENT AUTHORITY.		Drawn by : NK	
				 <div>GOVERNMENT OF UGANDA UGANDA COFFEE DEVELOPMENT AUTHORITY PLOT 35 JINJA ROAD, P.O.BOX 7267,KAMPALA, UGANDA</div>	 <div>SANDHBOLT LIMITED P.O BOX 1224 KAMPALA, UGANDA Email: info@sandhbolt.com <i>Time Cost &amp; Quality</i></div>	 <div>Project :  Drawing Title:  GROUND FLOOR - DRAINAGE LAYOUT</div>					Checked by : CM	
Approved by : CM												
Scale : 1:1000	Drawing no.: SB22/UCDA/M03											
Date : September 2022												
Index	Description of amendment	Date	Name									

LEGEND

Symbols	Description
	Cold water supply pipe
CWS	Cold water supply
Ciw	Chased in Wall
TB	To below
	Fire Hosereel
	Portable Fire Extinguishers



Index	Description of amendment	Date	Name

Client:



GOVERNMENT OF UGANDA

UGANDA COFFEE DEVELOPMENT AUTHORITY

PLOT 35 JINJA ROAD,

P.O.BOX 7267,KAMPALA, UGANDA



Consultants :

SANDBOLT LIMITED

P.O BOX 1224 KAMPALA, UGANDA

Email: info@sandbolt.com

Time Cost & Quality



Project :

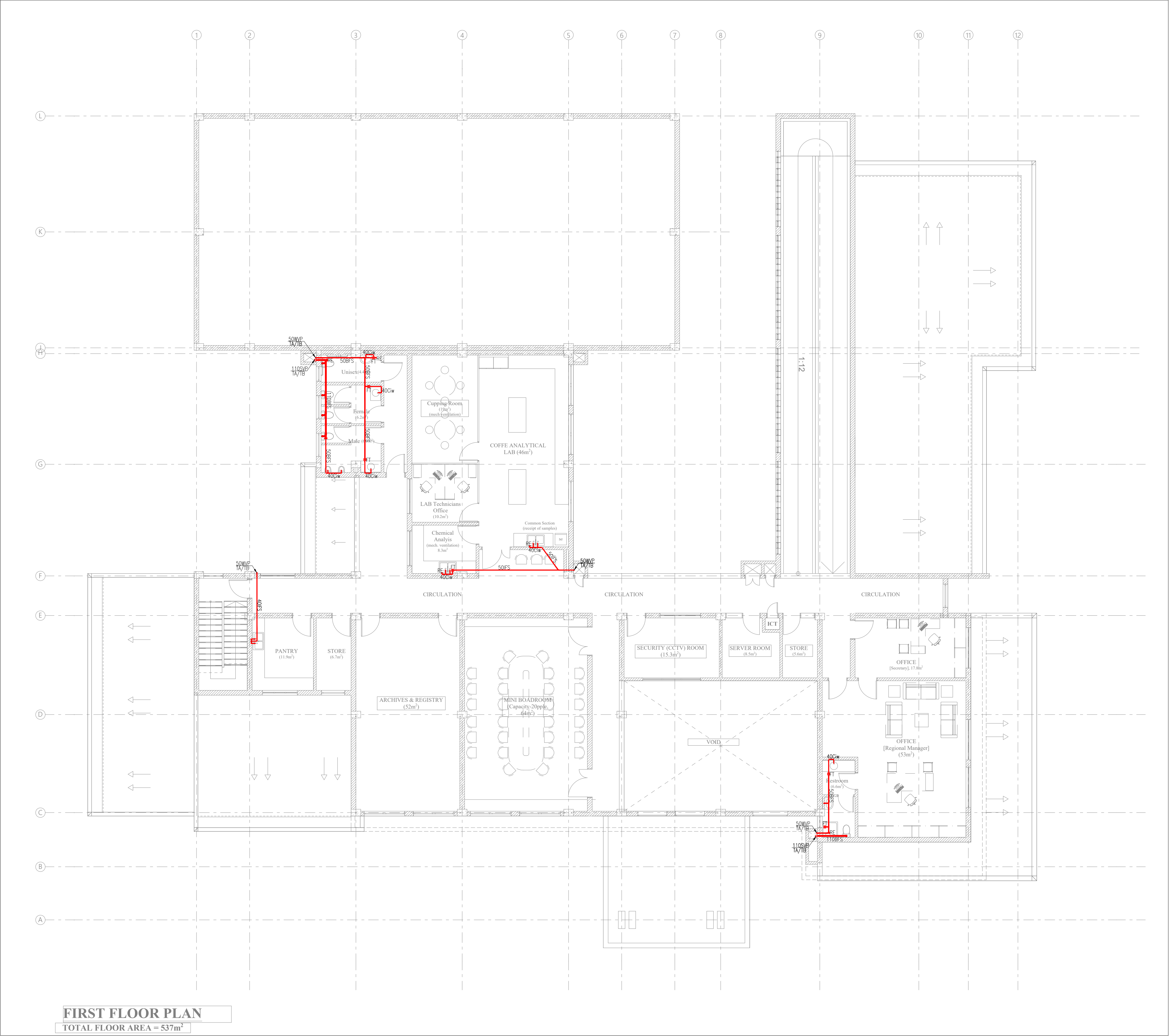
CONSULTANCY SERVICES FOR THE DETAILED ENGINEERING DESIGN OF THE PROPOSED REGIONAL OFFICES (RWENZORI) AND MODERN COFFEE ANALYTICAL LABORATORY FOR UGANDA COFFEE DEVELOPMENT AUTHORITY.

Drawing Title:

GROUND FLOOR - WATER SUPPLY LAYOUT

Drawn by : NK	Drawing no.:
Checked by : CM	SB22/UCDA/M04
Approved by : CM	
Scale : 1:1000	
Date : September 2022	






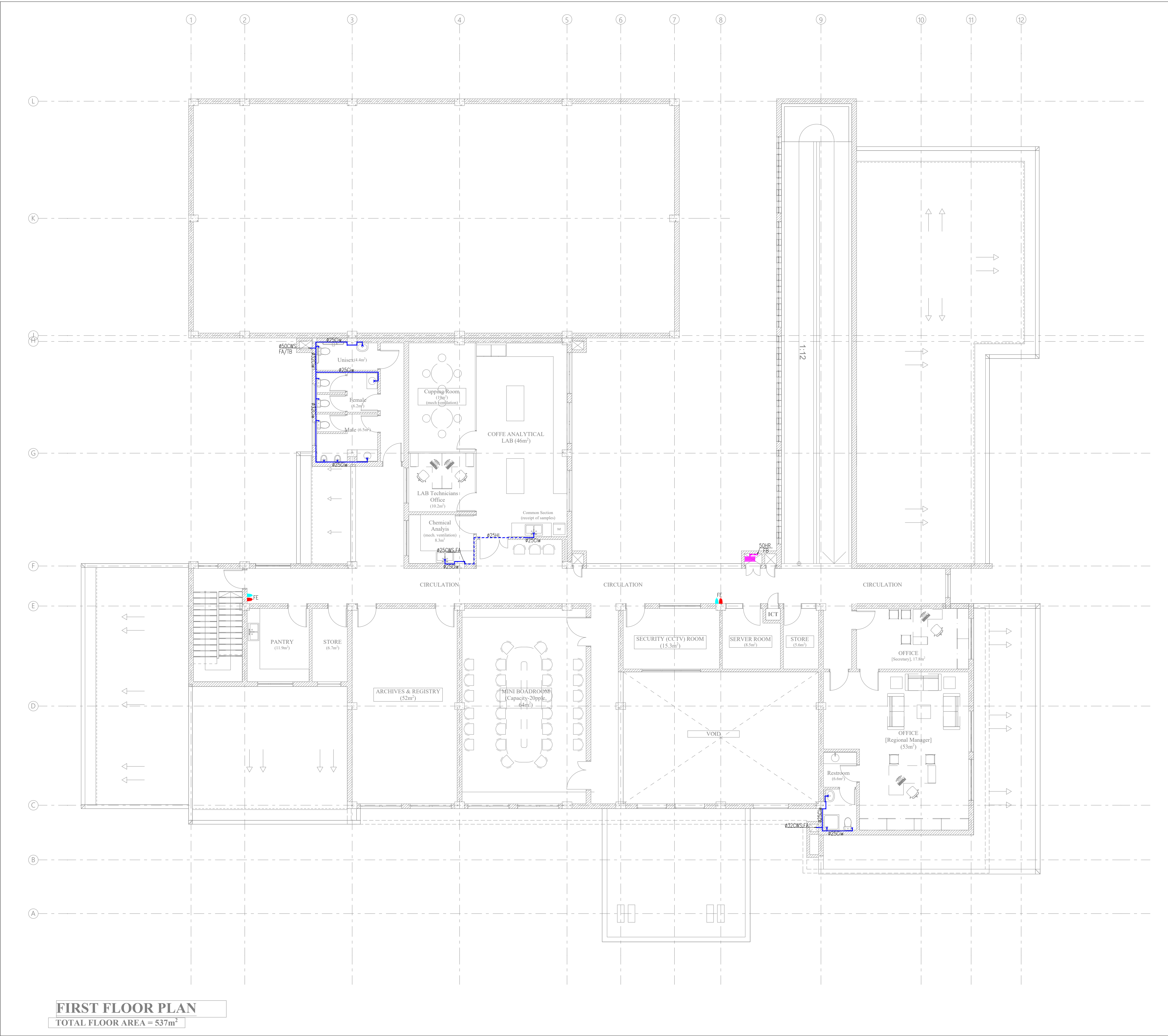


LEGEND	
	Drainage pipe
	Floor Trap
IFS	In Floor Slab
WVP	Waste Vent Pipe
SVP	Soil Vent Pipe
FA	From Above

				Client:				Consultants :				Project :				Drawn by : NK			
																Checked by : CM			
				GOVERNMENT OF UGANDA				SANDHBOLT LIMITED				CONSULTANCY SERVICES FOR THE DETAILED ENGINEERING DESIGN OF THE PROPOSED REGIONAL OFFICES (RWENZORI) AND MODERN COFFEE ANALYTICAL LABORATORY FOR UGANDA COFFEE DEVELOPMENT AUTHORITY.				Approved by : CM			
				UGANDA COFFEE DEVELOPMENT AUTHORITY				P.O BOX 1224 KAMPALA, UGANDA				Drawing Title:				Scale : 1:1000			
				PLOT 35 JINJA ROAD,				Email: info@sandbolt.com				FIRST FLOOR - DRAINAGE LAYOUT				Date : September 2022			
				P.O.BOX 7267,KAMPALA, UGANDA				Time Cost & Quality								Drawing no.:			
																SB22/UCDA/M05			
Index	Description of amendment	Date	Name																

LEGEND

Symbols	Description
	Cold water supply pipe
CWS	Cold water supply
Ciw	Chased in Wall
TB	To below
	Fire Hosereel
 FE	Portable Fire Extinguishers



Index	Description of amendment	Date	Name

Client:



GOVERNMENT OF UGANDA  
UGANDA COFFEE DEVELOPMENT AUTHORITY  
PLOT 35 JINJA ROAD,  
P.O.BOX 7267,KAMPALA, UGANDA



Consultants :

**SANDBOLT LIMITED**  
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Email: [info@sandbolt.com](mailto:info@sandbolt.com)  
*Time Cost & Quality*



Project :

**CONSULTANCY SERVICES FOR THE DETAILED ENGINEERING DESIGN OF THE PROPOSED REGIONAL OFFICES (RWENZORI) AND MODERN COFFEE ANALYTICAL LABORATORY FOR UGANDA COFFEE DEVELOPMENT AUTHORITY.**

Drawing Title:

**FIRST FLOOR - WATER SUPPLY LAYOUT**

Drawn by : **NK**

Checked by : **CM**

Approved by : **CM**

Scale : **1:1000**




Date : **September 2022**

Drawing no.:

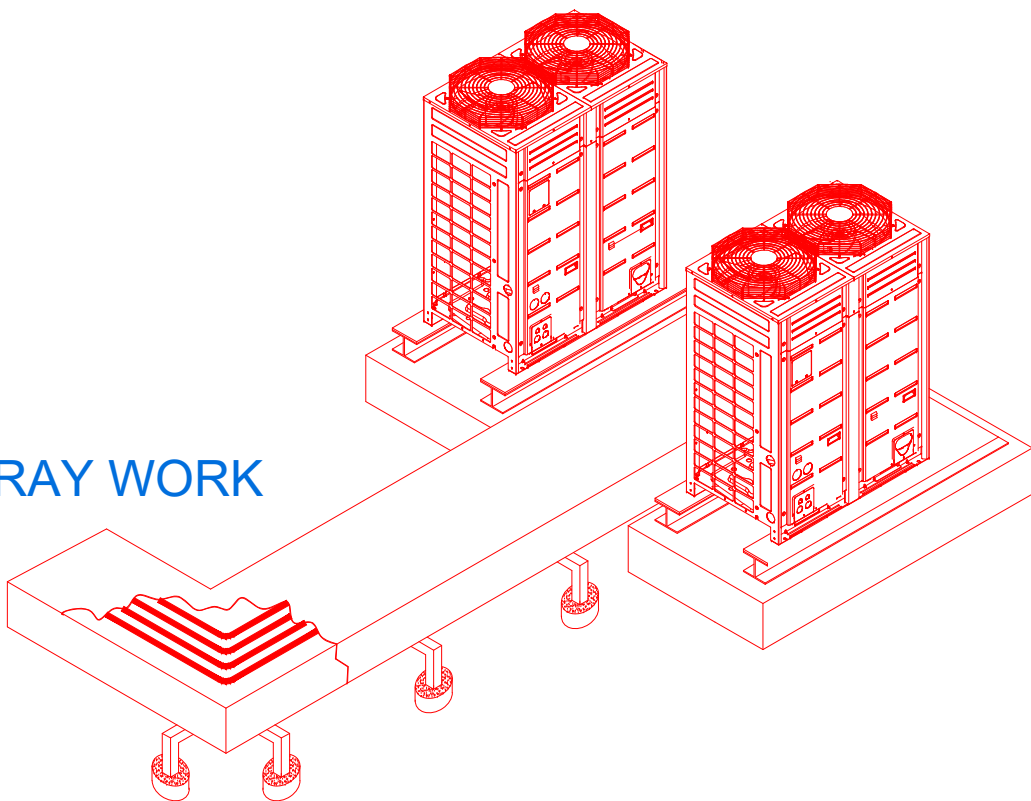
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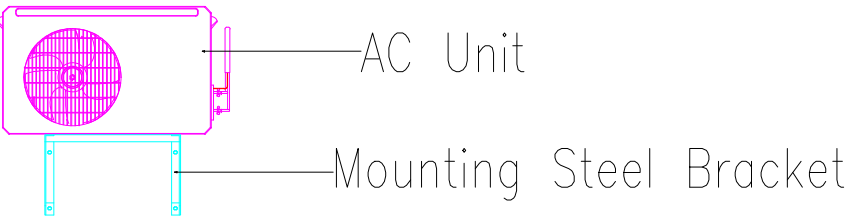
LEGEND

Symbols	Description
	Cold water supply pipe
	GI Fire Fighting Pipe
	Control Valve
TB	To below

PIPING TRAY WORK



Outdoor AC Unit Mounting Details at Roof Terrace



Outdoor AC Split Unit Mounting Details

SECOND FLOOR PLAN (Services Roof Terrace)

TOTAL FLOOR AREA = 245m<sup>2</sup>

Index	Description of amendment	Date	Name

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Email: info@sandbolt.com  
Time Cost & Quality



Project :

CONSULTANCY SERVICES FOR THE DETAILED ENGINEERING DESIGN OF THE PROPOSED REGIONAL OFFICES (RWENZORI) AND MODERN COFFEE ANALYTICAL LABORATORY FOR UGANDA COFFEE DEVELOPMENT AUTHORITY.

Drawing Title:

SECOND FLOOR/ ROOF TERRACE - WATER STORAGE, HVAC OUTDOOR LAYOUT

Drawn by : NK








Checked by : CM

Approved by : CM

Scale : 1:1000  
Date : September 2022

Drawing no.:  
SB22/UCDA/M07

LEGEND

Symbols	Descriptions
	Indoor 4 way Ceiling Cassette
	Drainage Pipe
	Refrigerant Copper Pipe
	Ceiling Fan
	DP Switch
	Refnet Joint
	Indoor wall mounted AC Unit



Index	Description of amendment	Date	Name

Client:



**GOVERNMENT OF UGANDA**  
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PLOT 35 JINJA ROAD,  
P.O.BOX 7267,KAMPALA, UGANDA



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**SANDHBOLT LIMITED**  
P.O BOX 1224 KAMPALA, UGANDA  
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*Time Cost & Quality*



Project :

**CONSULTANCY SERVICES FOR THE DETAILED ENGINEERING DESIGN OF THE PROPOSED REGIONAL OFFICES (RWENZORI) AND MODERN COFFEE ANALYTICAL LABORATORY FOR UGANDA COFFEE DEVELOPMENT AUTHORITY.**

Drawing Title:

**GROUND FLOOR - AIR CONDITIONING & VENTILATION LAYOUT**

Drawn by : **NK**

Checked by : **CM**

Approved by : **CM**

Scale : **1:1000**







Date : **September 2022**

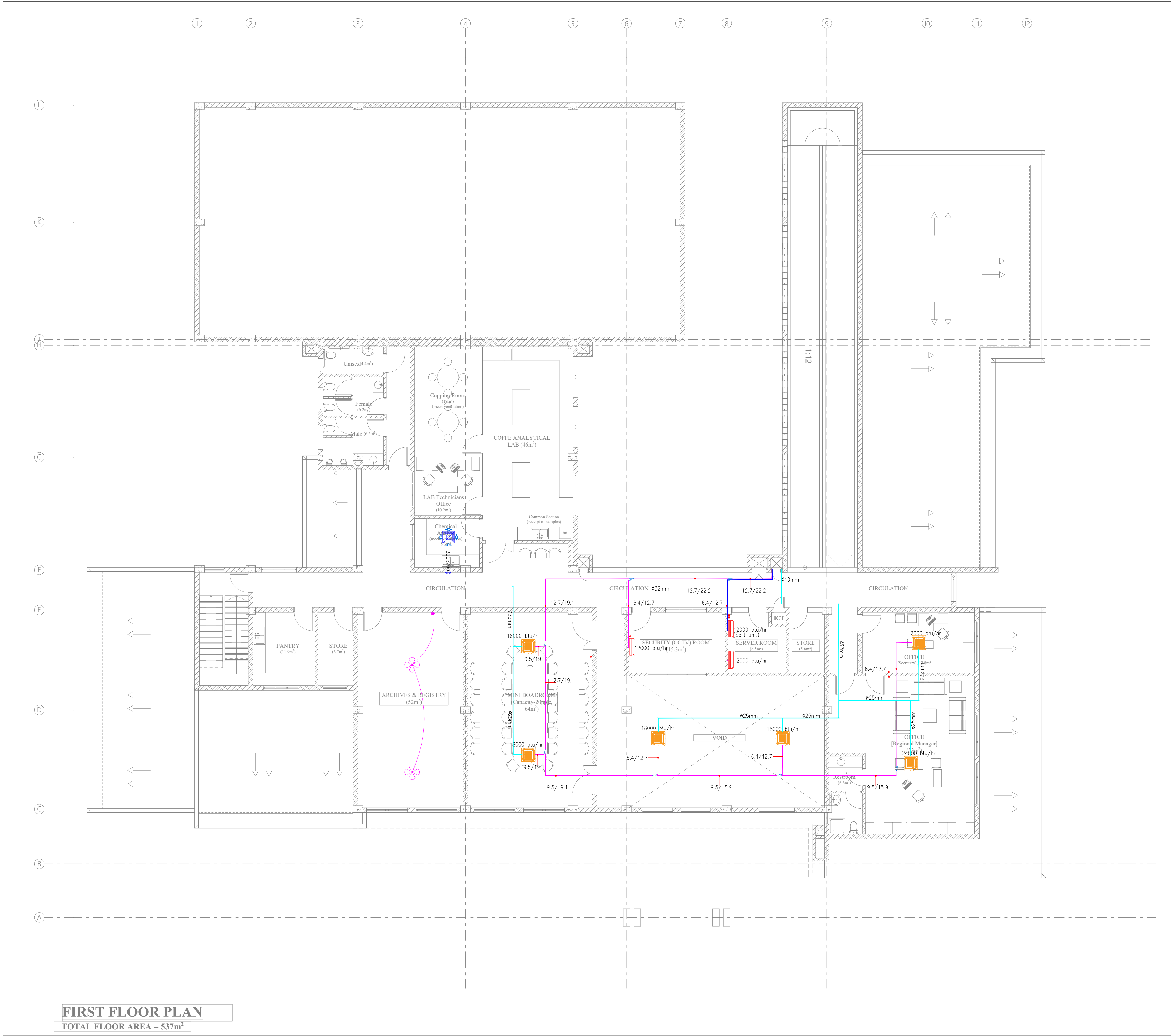
Drawing no.:

**SB22/UCDA/AC01**



LEGEND

Symbols	Descriptions
	Indoor 4-way Ceiling Cassette
	Drainage Pipe
	Refrigerant Copper Pipe
	Ceiling Fan
	DP Switch
	Refnet Joint
	Indoor wall mounted AC Unit



Index	Description of amendment	Date	Name

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Time Cost & Quality



Project :

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Drawing Title:

FIRST FLOOR - AIR CONDITIONING & VENTILATION LAYOUT

Drawn by : NK

Checked by : CM

Approved by : CM

Scale : 1:1000

Date : September 2022

Drawing no.:

SB22/UCDA/AC02