

MODEL MARKET 2



CLIENT:

**MINISTRY OF LOCAL GOVERNMENT ,
CHIEFTAINCY & RELIGIOUS AFFAIRS**

PROJECT:

**PROPOSED 24-HOUR ECONOMY MARKET
&
COMMERCIAL CENTRE**



LOCATION :



BLOCK C

LOCKABLE SHOPS, POLICE POST, MINI MALL & WOMEN'S BANK

STRUCTURAL DRAWINGS

PROPOSED 24-HOUR ECONOMY MARKET & COMMERCIAL CENTRE — MODEL MARKET 2

DRAWING SCHEDULE

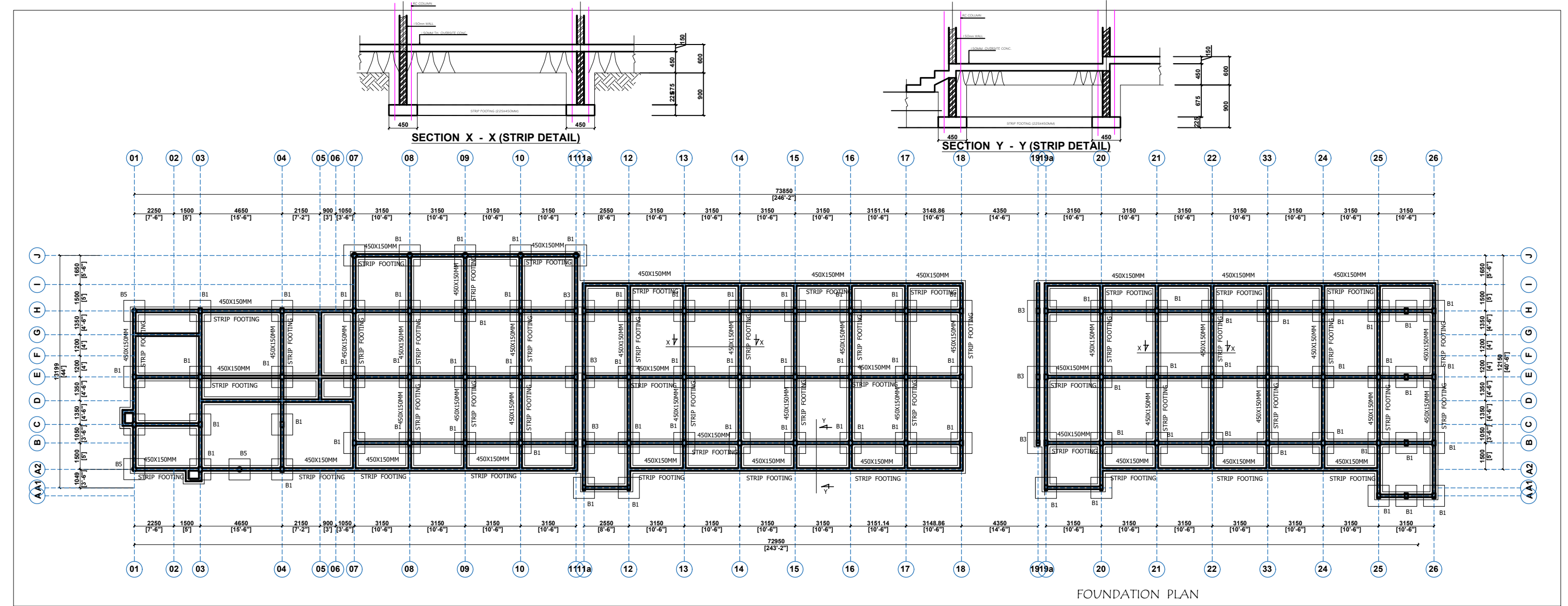
Foundations · Beam & Column Arrangements · Slabs · Roof Carcass · Stairs & Ramps

Client: Ministry of Local Government,
Chieftaincy & Religious Affairs
Eco-Planners & Engineering Consult

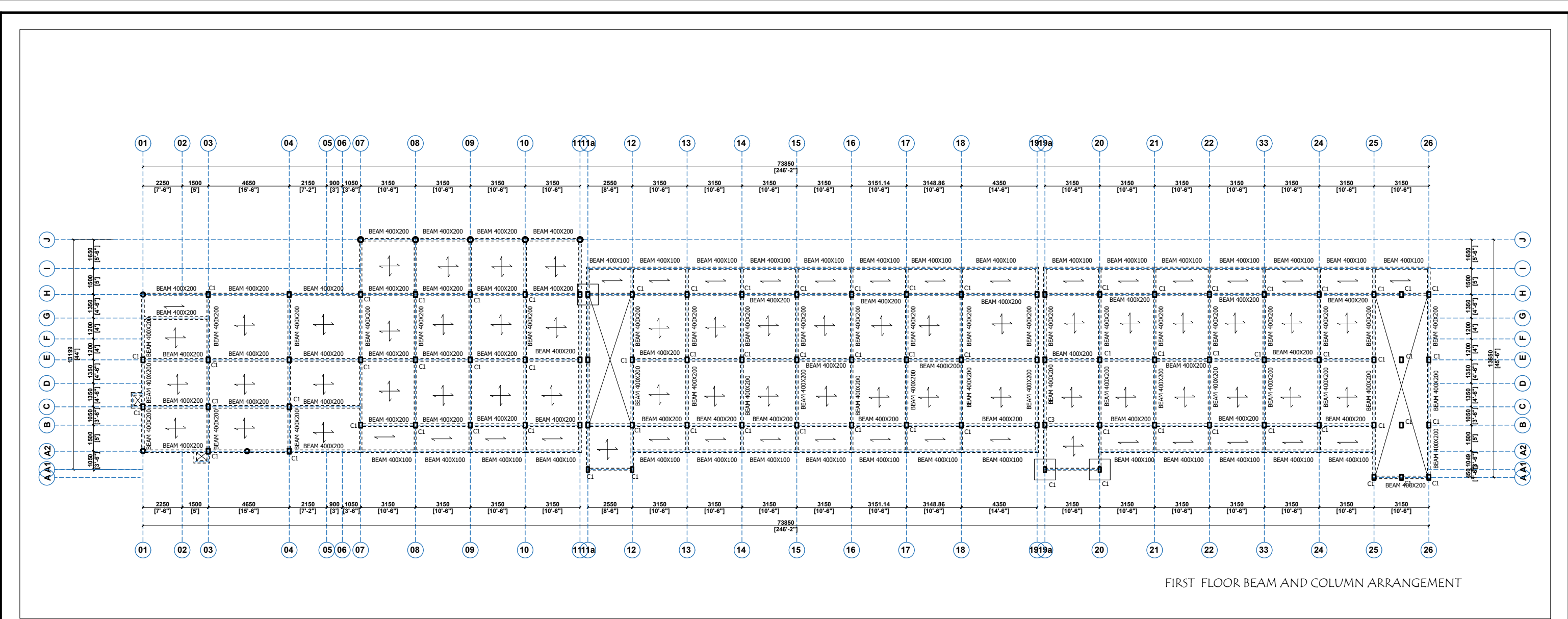
SHEET	DRAWING TITLE	PAGE IN ORIGINAL SET
1	Structural Drawings — Section Cover	p. 70
2	Block C (Section Cover)	p. 96
3	Foundation Plan (Blk 'C') with Strip Details X-X & Y-Y	p. 97
4	First Floor Beam & Column Arrangement (Blk 'C')	p. 98
5	Roof Beam General Arrangement (Blk 'C')	p. 99
6	First Floor Slab Detail (Blk 'C')	p. 100
7	Beams (Blk 'C')	p. 101
8	Roof Plan — Carcass Arrangement (Blk 'C')	p. 102
9	Column (1 of 2) — Bases & Bending Schedule	p. 103
10	Column (2 of 2)	p. 104
11	Stair Type 2	p. 105
12	Ramp Type 2 (1 of 2)	p. 106
13	Ramp Type 2 (2 of 2)	p. 107

STRUCTURAL DRAWINGS

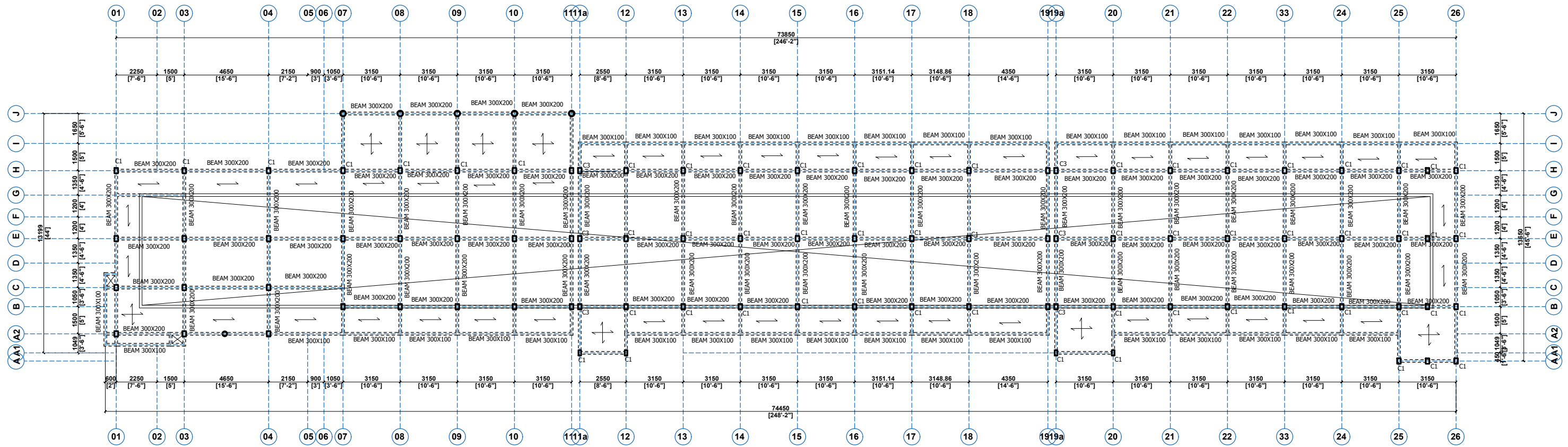
BLOCK C



CLIENT:	MINISTRY OF LOCAL GOVERNMENT, CHIEFTAINCY & RELIGIOUS AFFAIRS	PROJECT :	PROPOSED 24-HOUR ECONOMY MARKET & COMMERCIAL CENTRE	SCALE:	1 : 100	DRG NO.: ST01
DRAWING TITLE:	FOUNDATION PLAN (BLK 'C')			DESIGNED BY:	ECO - PLANNERS & ENGINEERING CONSULT	
DATE:	OCTOBER, 2025	NOTE :	- DIRECT MEASUREMENT IS NOT ALLOWED - FOR ANY CLARIFICATION CONTACT (" +233 247 898" 540 OR +233 242 316 175") ECO-PLANNERS AND ENGINEERING CONSULT	DRAWN BY:	C. O. ABOARH & A. FRANK	



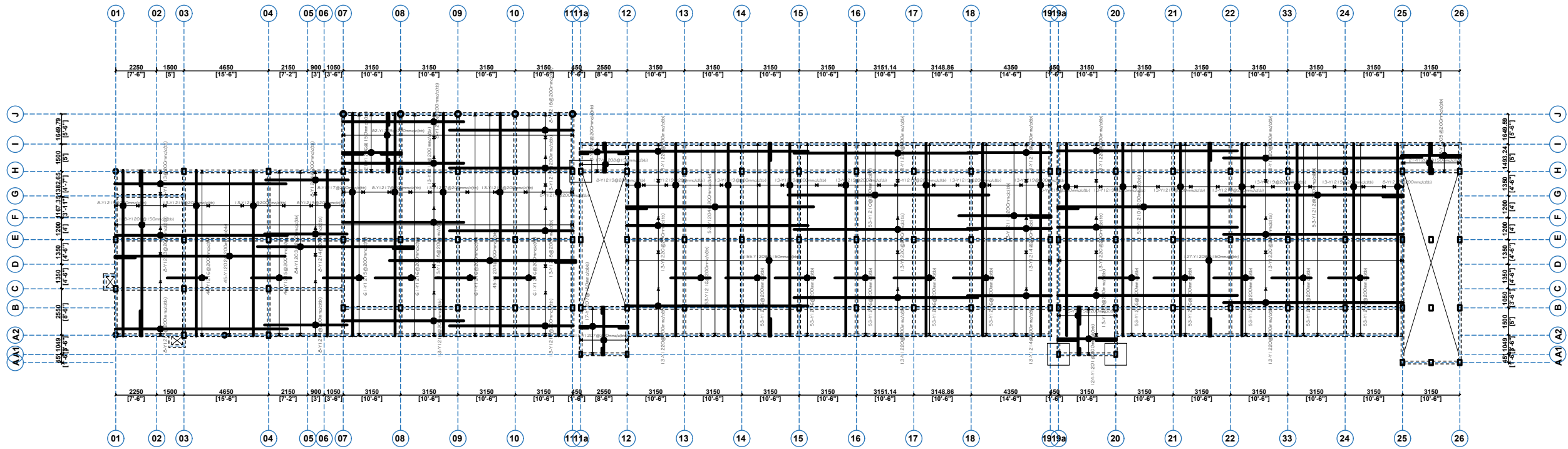
 ECO-PLANNERS & ENGINEERING CONSULT	CLIENT:	MINISTRY OF LOCAL GOVERNMENT , CHIEFTAINCY & RELIGIOUS AFFAIRS	PROJECT : PROPOSED 24-HOUR ECONOMY MARKET & COMMERCIAL CENTRE 	SCALE:	1 : 100	DRG NO.: ST02
	DRAWING TITLE:	FIRST FLOOR BEAM & COLUMN ARRANGEMENT (BLK 'C')		DESIGNED BY:	ECO - PLANNERS & ENGINEERING CONSULT	
	DATE:	OCTOBER, 2025	NOTE : - DIRECT MEASUREMENT IS NOT ALLOWED - FOR ANY CLARIFICATION CONTACT ("+233 247 898" 540 OR +233 242 316 175") ECO-PLANNERS AND ENGINEERING CONSULT	DRAWN BY:	C. O. ABOARH & A. FRANK	



ROOF FLOOR BEAM ARRANGEMENT



CLIENT:	MINISTRY OF LOCAL GOVERNMENT , CHIEFTAINCY & RELIGIOUS AFFAIRS	PROJECT : PROPOSED 24-HOUR ECONOMY MARKET & COMMERCIAL CENTRE		SCALE:	1 : 100	DRG NO.: ST03
DRAWING TITLE:	ROOF BEAM GENERAL ARRANGEMENT (BLK 'C')			DESIGNED BY:	ECO - PLANNERS & ENGINEERING CONSULT	
DATE:	OCTOBER, 2025			DRAWN BY:	C. O. ABOARH & A. FRANK	
		NOTE : - DIRECT MEASUREMENT IS NOT ALLOWED - FOR ANY CLARIFICATION CONTACT (" +233 247 898" 540 OR +233 242 316 175") ECO-PLANNERS AND ENGINEERING CONSULT				



FIRST FLOOR SLAB DETAIL

BENDING SCHEDULE					
LOC.	BAR NO	DIA	QTY	LENGTH	SHAPE
R. C. FOR FIRST SLAB DETAILS	Y1201bb	12	168	10050	
	Y1202bb	12	45	10275	
	Y1203bb	12	45	9775	
	Y1204bb	12	96	11475	
	Y1205bb	12	82	3850	
	Y1206bb	12	29	3250	
	Y1207bb	12	40	2150	
	Y1208bb	12	38	11150	
	Y1209bb	12	262	11250	
	Y1210bb	12	106	10200	STRAIGHT
	Y1211bb	12	53	6275	
	Y1212bb	12	53	11275	
	Y1213bb	12	24	9400	STRAIGHT
	Y1214bb	12	63	4500	STRAIGHT
	Y1215bb	12	42	9100	STRAIGHT
	Y1216bb	12	971	2100	STRAIGHT
	Y1217bb	12	50	12000	STRAIGHT
	Y1218bb	12	94	6600	STRAIGHT
	Y1219bb	12	180	10500	STRAIGHT
	Y1220bb	12	156	10000	STRAIGHT



CLIENT:

MINISTRY OF LOCAL GOVERNMENT ,
CHIEFTAINCY & RELIGIOUS AFFAIRS

DRAWING
TITLE:

FIRST FLOOR SLAB DETAIL (BLK 'C')

DATE:

OCTOBER, 2025

PROJECT :

PROPOSED 24-HOUR
ECONOMY MARKET
&
COMMERCIAL CENTRE



NOTE :

- DIRECT MEASUREMENT IS NOT ALLOWED
- FOR ANY CLARIFICATION CONTACT (" +233 247 898" 540 OR +233 242 316 175") ECO-PLANNERS AND ENGINEERING CONSULT

SCALE:

1 : 100

DESIGNED BY:

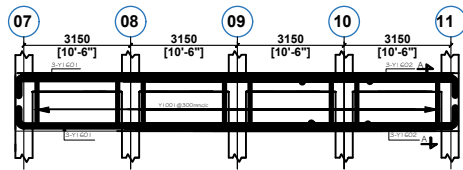
ECO - PLANNERS &
ENGINEERING CONSULT

DRAWN BY:

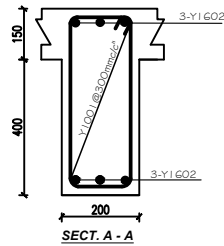
C. O. ABOARH & A. FRANK

DRG NO.:

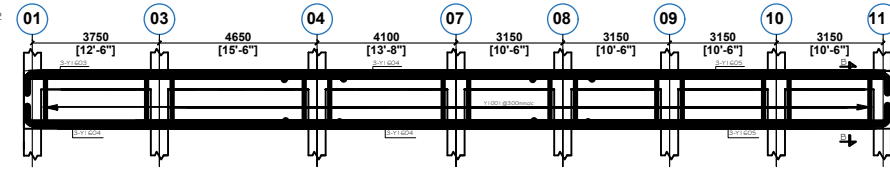
ST04



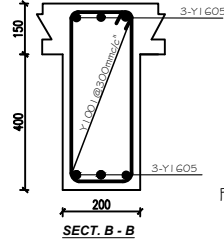
FLOOR BEAM ON G.L. J (1 NO)



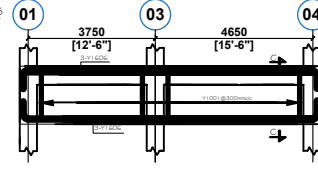
SECT. A - A



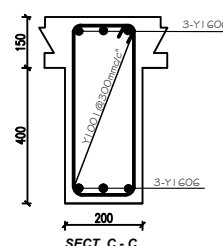
FLOOR BEAM ON G.L. E & H (2 NO)



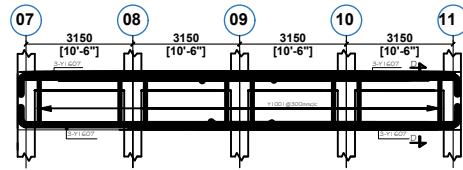
SECT. B - B



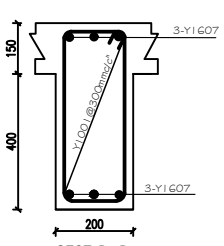
FLOOR BEAM ON G.L. A1 & C (2 NO)



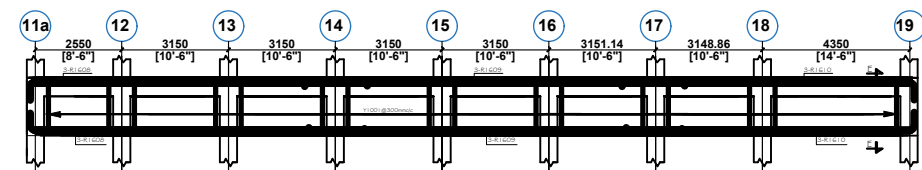
SECT. C - C



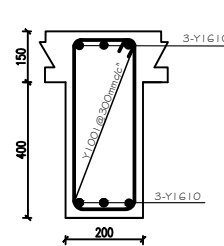
FLOOR BEAM ON G.L. B (1 NO)



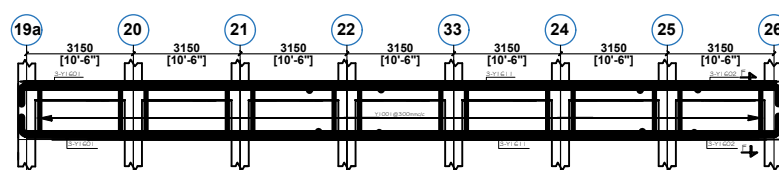
SECT. D - D



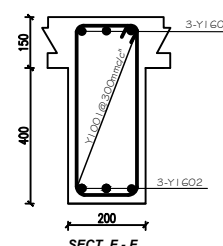
FLOOR BEAM ON G.L. B, E & H (3 NO)



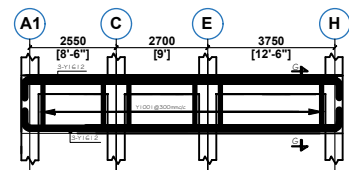
SECT. E - E



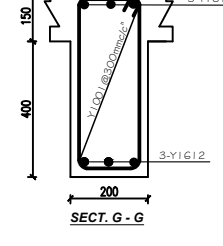
FLOOR BEAM ON G.L. B, E & H (3 NO)



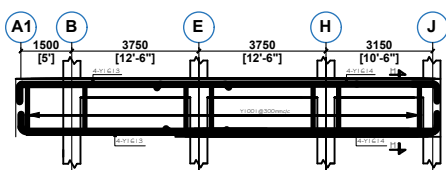
SECT. F - F



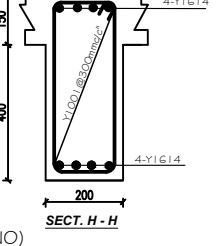
FLOOR BEAM ON G.L. O1, O3 & O4 (3 NO)



SECT. G - G

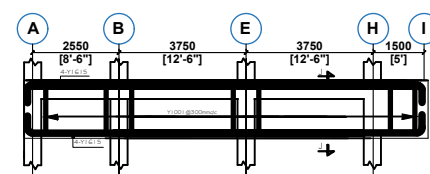


FLOOR BEAM ON G.L. O1, O7, O9, O10 & O11 (5 NO)

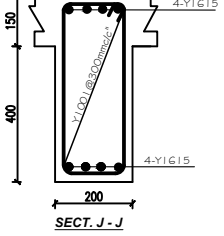


SECT. H - H

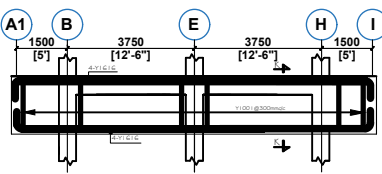
BENDING SCHEDULE FOR FIRST & SECOND FLOOR					
LOC.	BAR NO	DIA	QTY	LENGTH	SHAPE
TYPICAL BEAMS DETAILS	Y1601	16	24	10375	10200
	Y1602	16	24	4475	4300
	Y1603	16	12	9275	9100
	Y1604	16	12	8800	STRAIGHT
	Y1605	16	12	10375	10200
	Y1606	16	12	8750	8600
	Y1607	16	12	7375	7200
	Y1608	16	18	9475	9700
	Y1609	16	18	11000	STRAIGHT
	Y1610	16	18	8475	8300
	Y1611	16	18	11400	STRAIGHT
	Y1612	16	18	9350	9200
	Y1613	16	40	6175	6000
	Y1614	16	40	8175	8000
	Y1615	16	48	11850	11600
	Y1616	16	80	10850	10600
	Y1001	10	1617	1500	1500



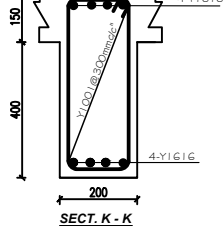
FLOOR BEAM ON G.L. 11a, 12, 19a, 20, 25 & 26 (6 NO)



SECT. J - J



FLOOR BEAM ON G.L. 13, 14, 15, 16, 17, 18, 21, 22, 23 & 24 (10 NO)



SECT. K - K



CLIENT:

DRAWING
TITLE:

DATE:

MINISTRY OF LOCAL GOVERNMENT ,
CHIEFTAINCY & RELIGIOUS AFFAIRS

BEAMS (BLK 'C')

OCTOBER, 2025

PROJECT :

PROPOSED 24-HOUR
ECONOMY MARKET
&
COMMERCIAL CENTRE



NOTE :

- DIRECT MEASUREMENT IS NOT ALLOWED
- FOR ANY CLARIFICATION CONTACT (" +233 247 898" 540 OR +233 242 316 175) ECO-PLANNERS AND ENGINEERING CONSULT

SCALE:

1 : 100

DESIGNED BY:

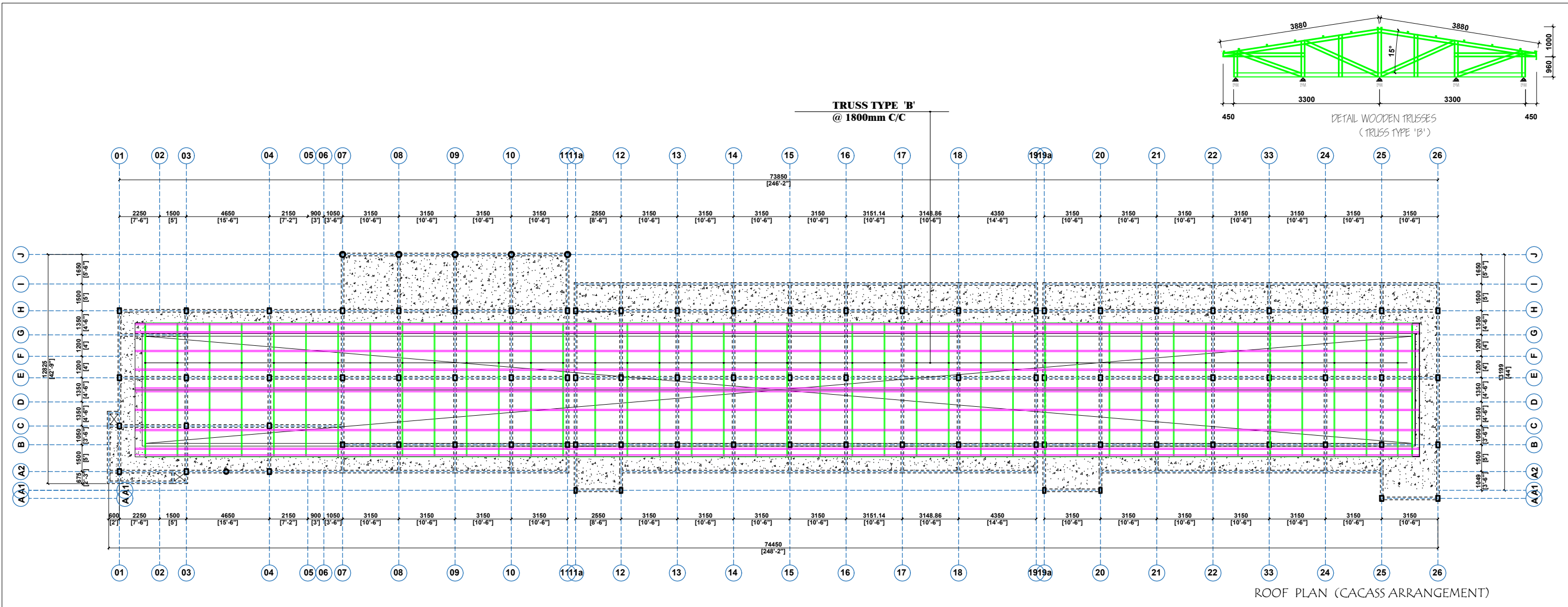
ECO - PLANNERS &
ENGINEERING CONSULT

DRAWN BY:

C. O. ABOARH & A. FRANK

DRG NO.:

ST05



CLIENT:

DRAWING TITLE:

DATE:

MINISTRY OF LOCAL GOVERNMENT,
CHIEFTAINCY & RELIGIOUS AFFAIRS

ROOF PLAN (CACASS ARRANGEMENT - BLK 'C')

OCTOBER, 2025

PROJECT : **PROPOSED 24-HOUR
ECONOMY MARKET
&
COMMERCIAL CENTRE**

NOTE :

- DIRECT MEASUREMENT IS NOT ALLOWED
- FOR ANY CLARIFICATION CONTACT (" +233 247 898" 540 OR +233 242 316 175") ECO-PLANNERS AND ENGINEERING CONSULT



SCALE:

DESIGNED BY:

DRAWN BY:

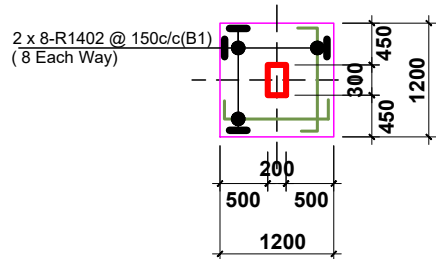
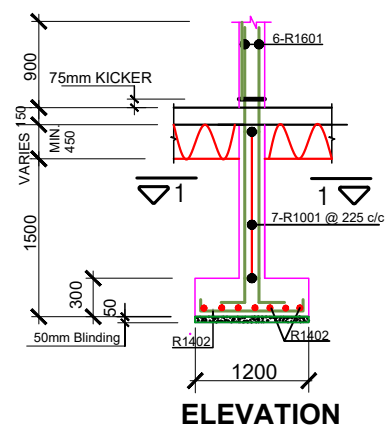
1 : 100

**ECO - PLANNERS &
ENGINEERING CONSULT**

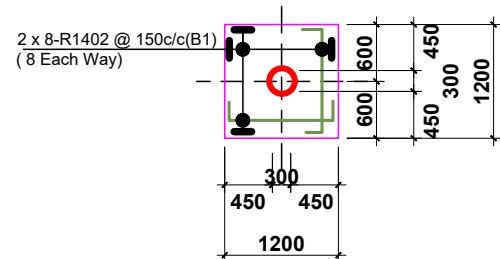
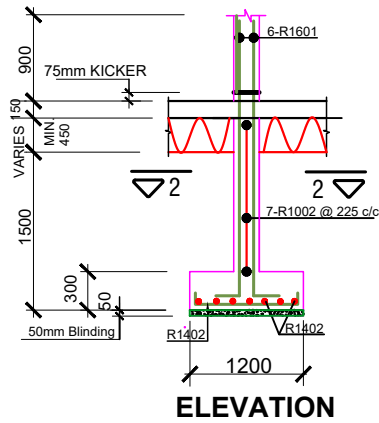
C. O. ABOARH & A. FRANK

DRG NO.:

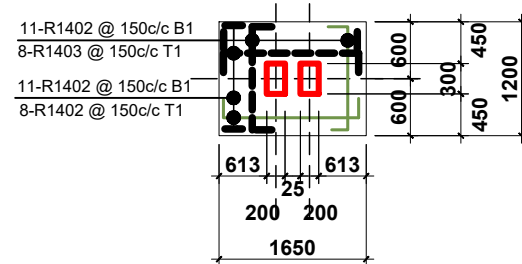
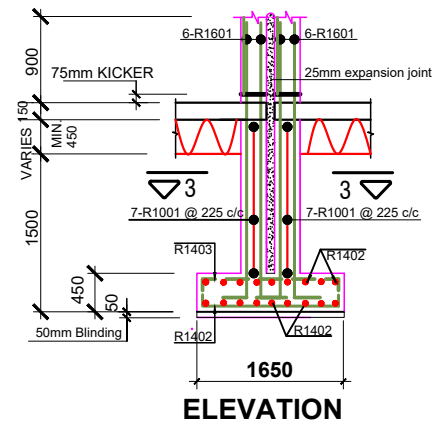
ST06



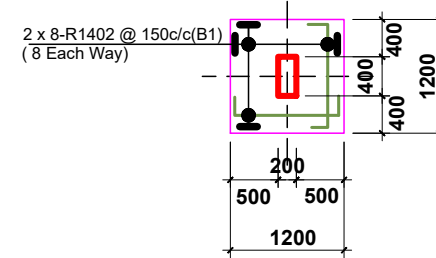
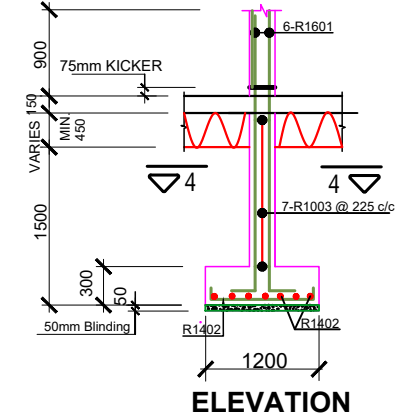
COL. BASE TYPE 'B1' (71 No. THUS)



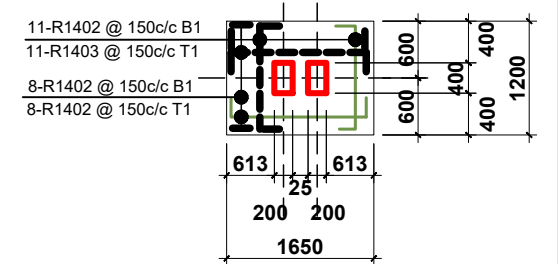
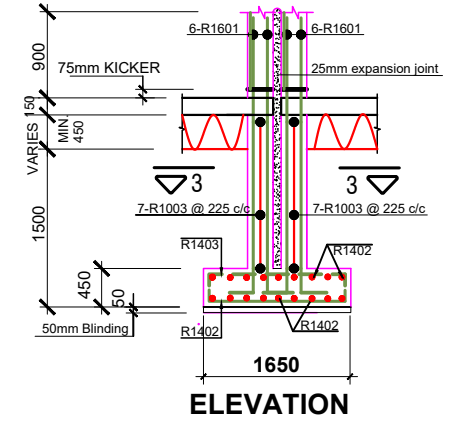
COL. BASE TYPE 'B2' (10 No. THUS)



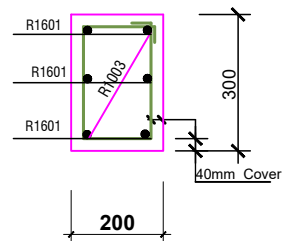
COL. BASE TYPE 'B3' (7 No. THUS)



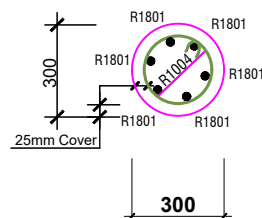
COL. BASE TYPE 'B4' (34 No. THUS)



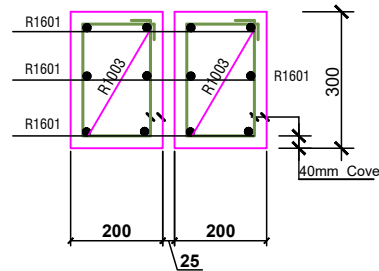
COL. BASE TYPE 'B5' (5 No. THUS)



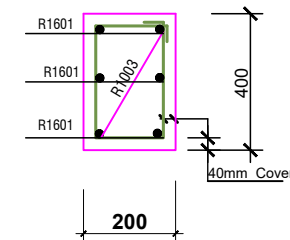
SECTION 1 - 1



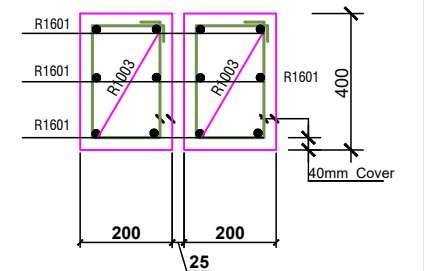
SECTION 2 - 2



SECTION 3 - 3



SECTION 4 - 4



SECTION 5 - 5

BENDING SCHEDULE						
LOCA.	BAR MARK	DIA mm	No EACH	TOTAL No	LENGTH mm	BENDING SKETCH
BASE TYPE 'B1' (144 No THUS)	R1801	16	6	864	3200	200 VARIES 3000 min.
	R1402	14	16	2304	1400	150 1100 150
	R1001	10	7	1008	900	50 250 150
BASE TYPE 'B2' (20 No ONLY)	R1601	16	6	120	3200	200 VARIES 3000 min.
	R1402	14	16	320	1400	150 1100 150
	R1002	10	7	140	700X(2)	CIRC. 600 50

BENDING SCHEDULE						
LOCA.	BAR MARK	DIA mm	No EACH	TOTAL No	LENGTH mm	BENDING SKETCH
BASE TYPE 'B3' (14 No ONLY)	R1601	16	12	168	3200	200 VARIES 3000 min.
	R1402	14	22	308	1800	150 1500 150
	R1403	14	16	40	2100	150 1100 150
	R1001	10	14	196	900X(2)	AS R1001 ABOVE
	R1002	10	7	98	700X(2)	CIRC. 600 50
BASE TYPE 'B4' (99 No THUS)	R1601	16	6	594	3200	200 VARIES 3000 min.
	R1402	14	16	1584	1200	150 1100 150
	R1003	10	7	693	1050	50 325 150

BENDING SCHEDULE						
LOCA.	BAR MARK	DIA mm	No EACH	TOTAL No	LENGTH mm	BENDING SKETCH
BASE TYPE 'B5' (3 No ONLY)	R1601	16	12	36	3200	200 VARIES 3000 min.
	R1402	14	22	66	1800	150 1500 150
	R1403	14	16	48	2100	150 1100 150
	R1003	10	14	42	1050X(2)	AS R1003 ABOVE



CLIENT:

DRAWING TITLE:

DATE:

MINISTRY OF LOCAL GOVERNMENT ,
CHIEFTAINCY & RELIGIOUS AFFAIRS

COLUMN (1 of 2)

OCTOBER, 2025

PROJECT : **PROPOSED 24-HOUR
ECONOMY MARKET
&
COMMERCIAL CENTRE**



NOTE : - DIRECT MEASUREMENT IS NOT ALLOWED
FOR ANY CLARIFICATION CONTACT (" +233 247 898" 540 OR
"+233 242 316 175" or "+233 271 010 146") ECO PLANNERS &
ENGINEERING CONSULT

SCALE:

DESIGNED BY:

DRAWN BY:

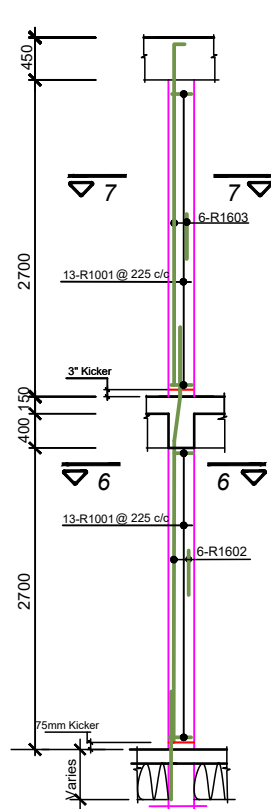
1 : 100

**ECO - PLANNERS &
ENGINEERING CONSULT**

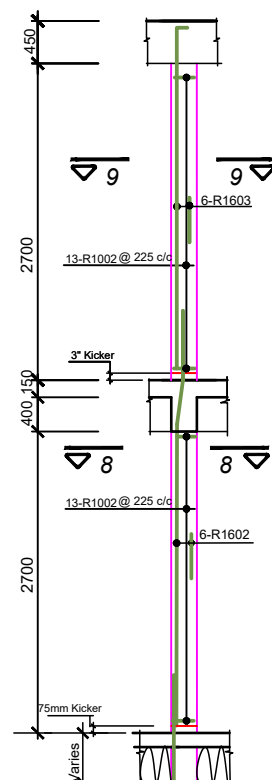
C. O. ABOARH & A. FRANK

DRG NO.:

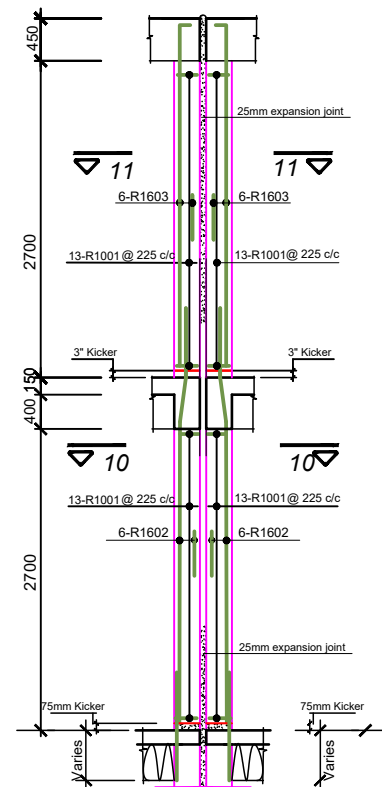
ST07



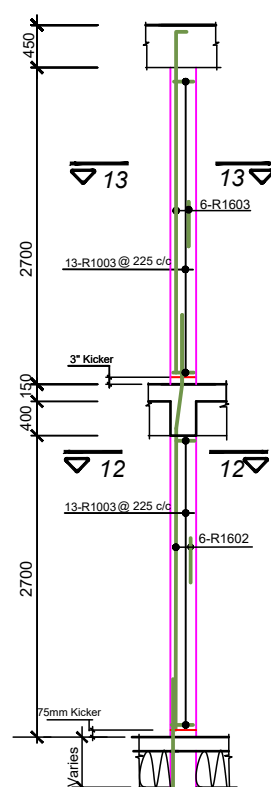
COLUMN TYPE 'C1' (54 No. THUS)



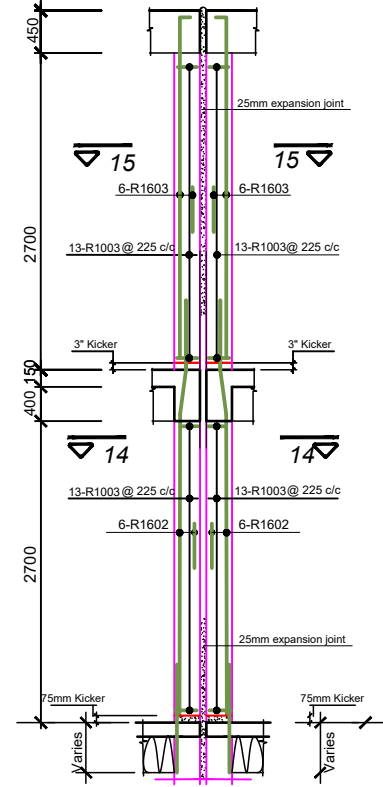
COLUMN TYPE 'C2' (54 No. THUS)



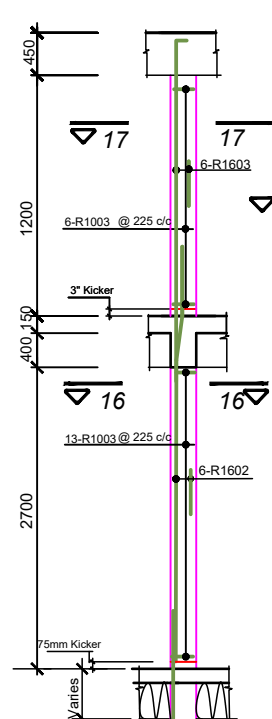
COLUMN TYPE 'C3' (5 No. THUS)



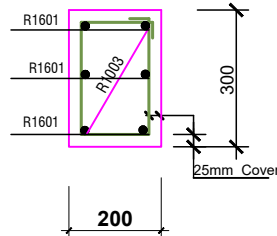
COLUMN TYPE 'C4' (54 No. THUS)



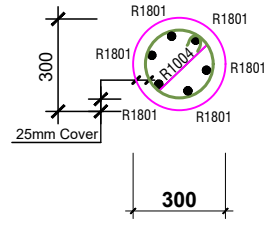
COLUMN TYPE 'C5' (5 No. THUS)



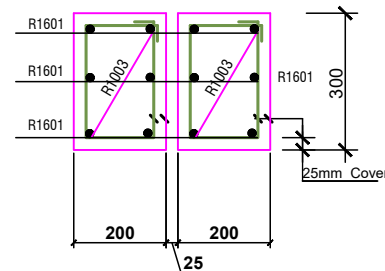
COLUMN TYPE 'C6' (30 No. THUS)



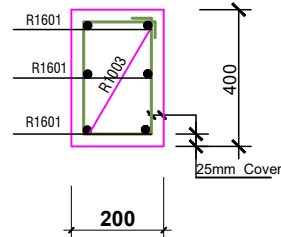
SECTION 6-6/7-7



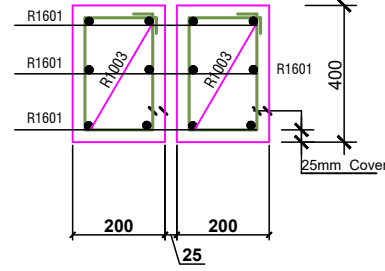
SECTION 8-8/9-9



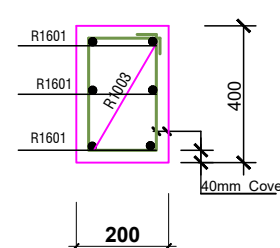
SECTION 10-10/11-11



SECTION 12-12/13-13



SECTION 14-14/15-15



SECTION 16-16/17-17

BENDING SCHEDULE						
LOC.	BAR MARK	DIA mm	No EACH	TOTAL No	LENGTH mm	BENDING SKETCH
COL. TYPE C1 (144 No. THUS)	R1602	16	6	864	4050	2850 300 900
	R1603	16	6	864	3050	2900 150
	R1001	10	26	3744	900	500 250 150
COL. TYPE C2 (20 No. THUS)	R1602	16	6	120	4050	2850 300 900
	R1603	16	6	120	3050	2900 150
	R1002	10	26	520	800	CIRC. 600 50
COL. TYPE C3 (14 No. THUS)	R1602	16	12	168	4050	2850 300 900
	R1603	16	12	168	3050	2900 150
	R1001	10	52	728	900x(2)	AS R1001 ABOVE
COL. TYPE C4 (99 No. THUS)	R1602	16	6	594	4050	2850 300 900
	R1603	16	6	594	3050	2900 150
	R1003	10	52	2574	1050x(2)	500 325 150
COL. TYPE C5 (3 No. THUS)	R1602	16	12	36	4050	2850 300 900
	R1603	16	12	36	3050	2900 150
	R1003	10	52	156	1050x(2)	500 325 150
COL. TYPE C6 (30 No. THUS)	R1602	16	6	180	4050	2850 300 900
	R1603	16	6	180	1350	1200 150
	R1003	10	26	780	1050x(2)	500 325 150



CLIENT:

DRAWING
TITLE:

DATE:

MINISTRY OF LOCAL GOVERNMENT ,
CHIEFTAINCY & RELIGIOUS AFFAIRS

COLUMN (2 of 2)

OCTOBER, 2025

PROJECT : **PROPOSED 24-HOUR
ECONOMY MARKET
&
COMMERCIAL CENTRE**



NOTE : - DIRECT MEASUREMENT IS NOT ALLOWED
FOR ANY CLARIFICATION CONTACT (" +233 247 898" 540 OR
" +233 242 316 175" or " +233 271 010 146") ECO PLANNERS &
ENGINEERING CONSULT

SCALE:

DESIGNED BY:

DRAWN BY:

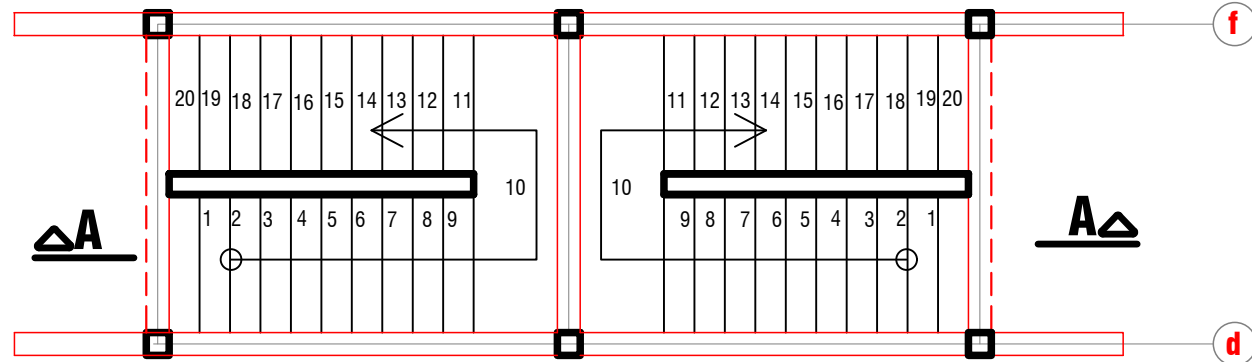
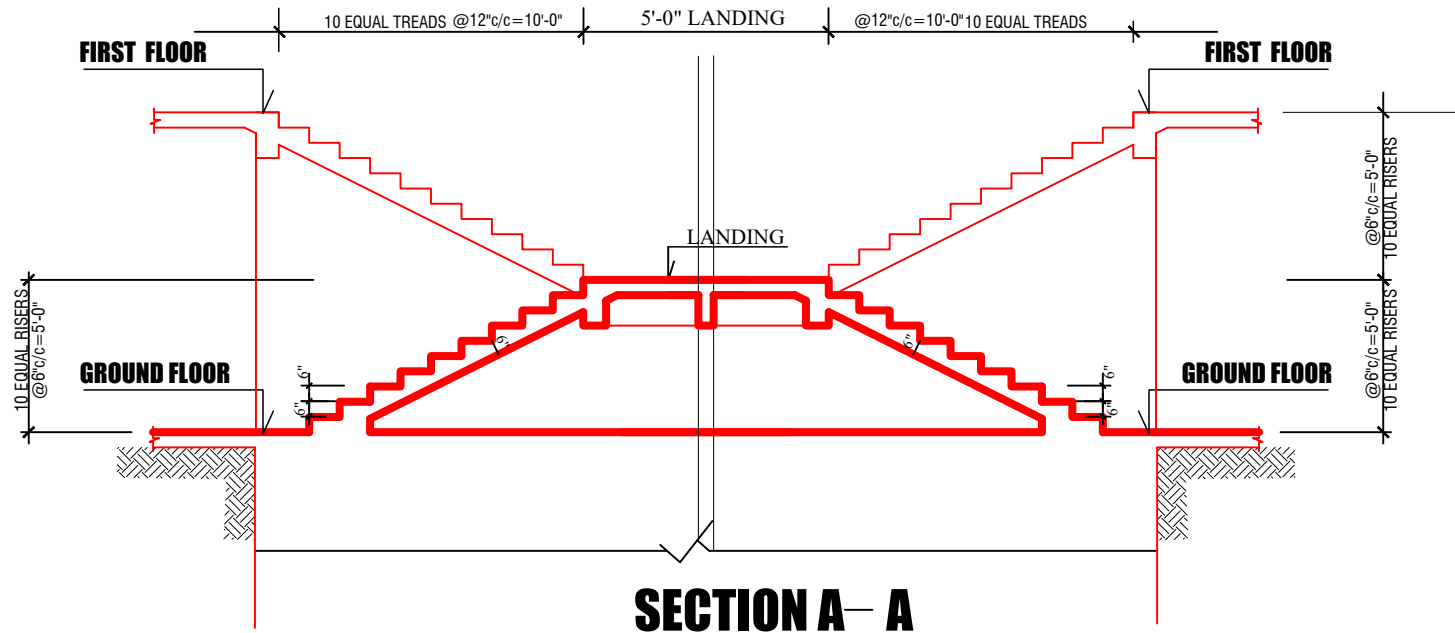
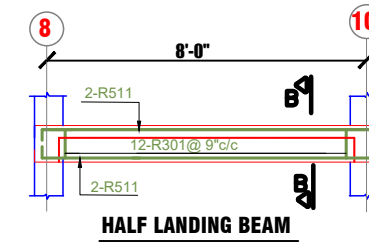
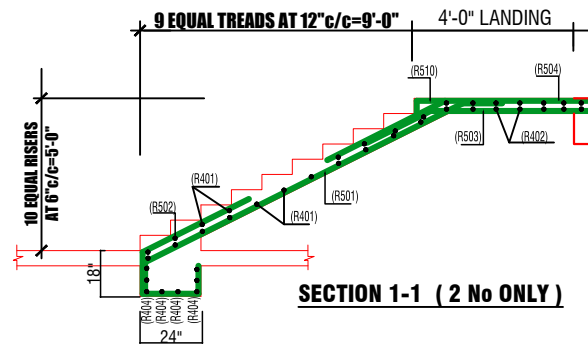
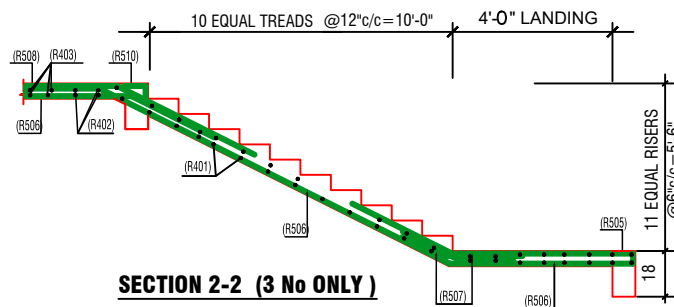
1 : 100

**ECO - PLANNERS &
ENGINEERING CONSULT**

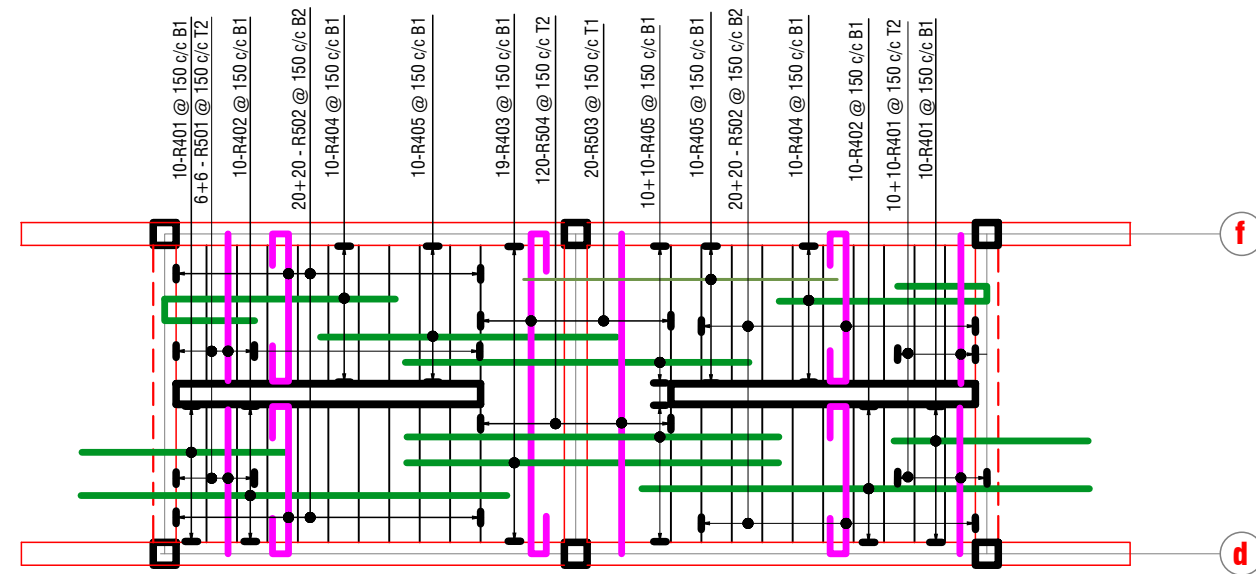
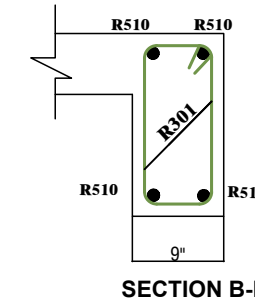
C. O. ABOARH & A. FRANK

DRG NO.:

ST08



G.A. STAIRCASE FROM GROUND FLOOR TO FIRST FLOOR



R.C STAIRCASE DETAILS FROM GROUND FLOOR TO FIRST FLOOR

BENDING SCHEDULE									
LOCAL	BAR MARK	DIA mm	No EACH	TOTAL No	LENGTH mm	BENDING SKETCH			
STAIRCASE DETAILS	R401	16	10	40	1650				
	R402	16	10	40	4800				
	R403	16	19	76	3300				
	R404	16	10	40	3500				
	R405	12	10	40	4800				
	R501	12	6	12	1400	STRAIGHT			
	R502	12	20	80	2800				
	R503	12	20	20	4400				
	R504	12	10	20	1900				
	R506	16	10	20	5550				
HALF LANDING BEAM DETAILS	R507	16	10	20	3750				
	R508	5/8"	10	20	3600				
	R509	5/8"	10	20	1300				
	R510	5/8"	10	20	1650				
	R301	3/8"	13	26	4'-2"				



CLIENT:

DRAWING TITLE:

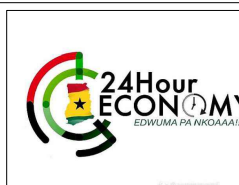
DATE:

MINISTRY OF LOCAL GOVERNMENT ,
CHIEFTAINCY & RELIGIOUS AFFAIRS

STAIR TYPE 2

OCTOBER, 2025

PROJECT : **PROPOSED 24-HOUR
ECONOMY MARKET
&
COMMERCIAL CENTRE**



NOTE : - DIRECT MEASUREMENT IS NOT ALLOWED
- FOR ANY CLARIFICATION CONTACT (" +233 247 898" 540 OR
" +233 242 316 175" or " +233 271 010 146") ECO PLANNERS &
ENGINEERING CONSULT

SCALE:

DESIGNED BY:

DRAWN BY:

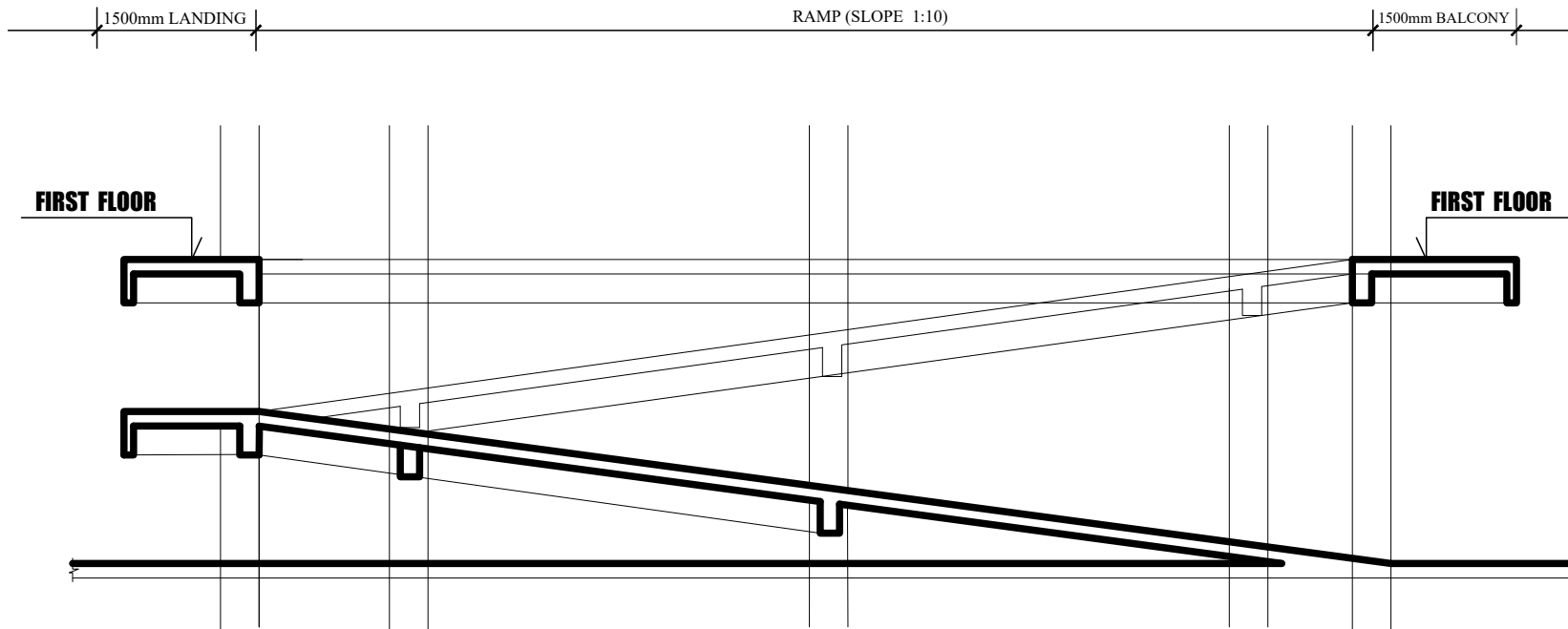
1 : 100

**ECO - PLANNERS &
ENGINEERING CONSULT**

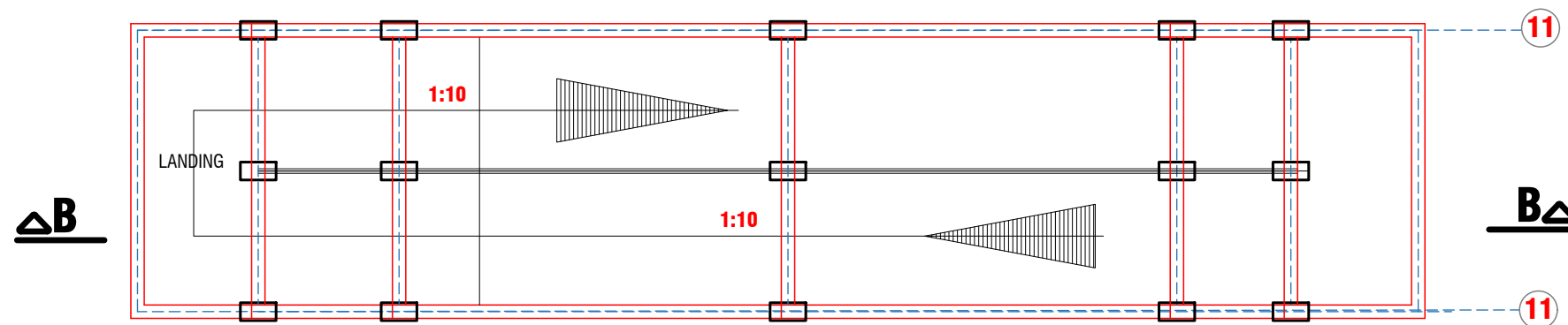
C. O. ABOARH & A. FRANK

DRG NO.:

ST09



 **SECTION B - B**
SCALE : 1 : 100



G.A. RAMP FROM GROUND FLOOR TO FIRST FLOOR (type 2)



CLIENT:

MINISTRY OF LOCAL GOVERNMENT ,
CHIEFTAINCY & RELIGIOUS AFFAIRS

**DRAWING
TITLE:**

RAMP TYPE 2 (1 of 2)

DATE:

OCTOBER, 2025

PROJECT : **PROPOSED 24-HOUR
ECONOMY MARKET
&
COMMERCIAL CENTRE**



NOTE : - DIRECT MEASUREMENT IS NOT ALLOWED
FOR ANY CLARIFICATION CONTACT (" +233 247 898" 540 OR
"+233 242 316 175" or "+233 271 010 146") ECO PLANNERS &
ENGINEERING CONSULT

SCALE:

1 : 100

DESIGNED BY:

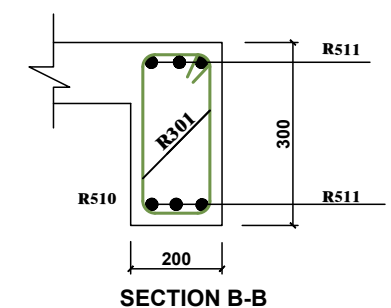
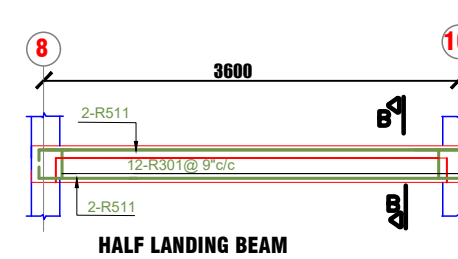
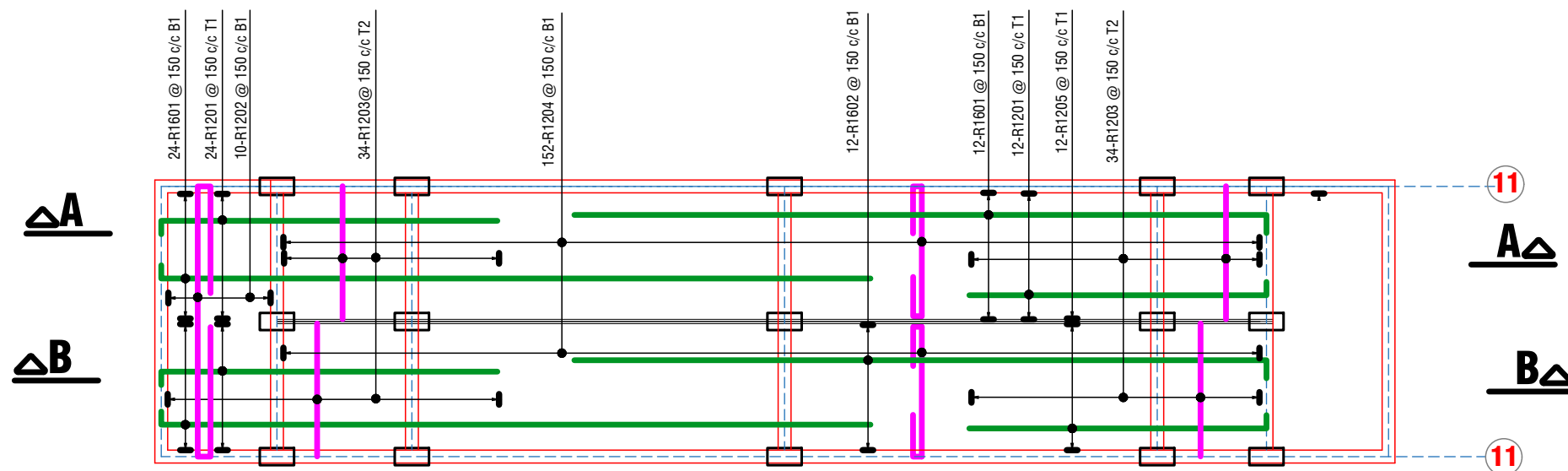
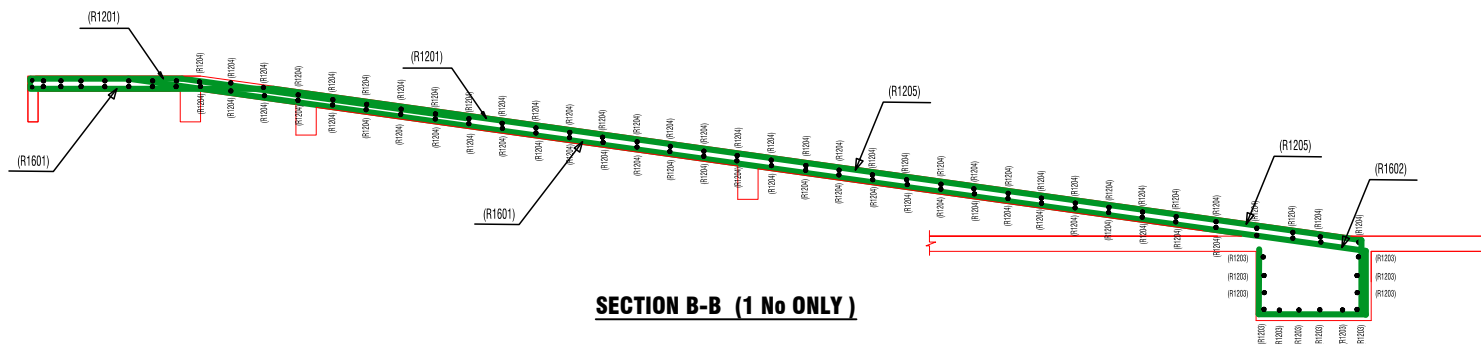
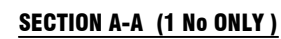
**ECO - PLANNERS &
ENGINEERING CONSULT**

DRAWN BY:

C. O. ABOARH & A. FRANK

DRG NO.:

ST10



BENDING SCHEDULE						
LOCAL	BAR MARK	DIA mm	No EACH	TOTAL No	LENGTH mm	BENDING SKETCH
RAMP DETAILS	R1601	16	48	48	8350	
	R1201	12	96	96	4000	
	R1202	12	10	10	5650	
	R1203	12	136	136	1550	STRAIGHT
	R1204	12	304	304	2750	
	R1602	16	12	12	8900	
	R1205	12	12	12	4750	
HALF LANDING BEAM DETAILS	R301	10	16	16	1250	
	R511	16	6	6	3900	

G.A. RAMP FROM GROUND FLOOR TO FIRST FLOOR (type 2)



DATE:

OCTOBER, 2025

NOTE: - DIRECT MEASUREMENT IS NOT ALLOWED
- FOR ANY CLARIFICATION CONTACT ("233 247 898" 540 OR "233 242 316 175" or "233 271 010 146") ECO PLANNERS & ENGINEERING CONSULT



DRAWN BY:

C. O. ABOARH & A. FRANK

ST11