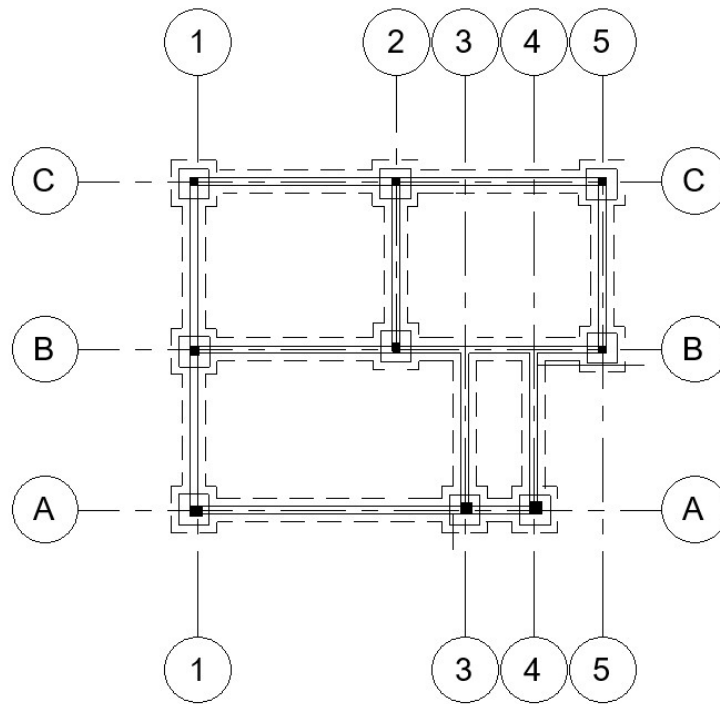
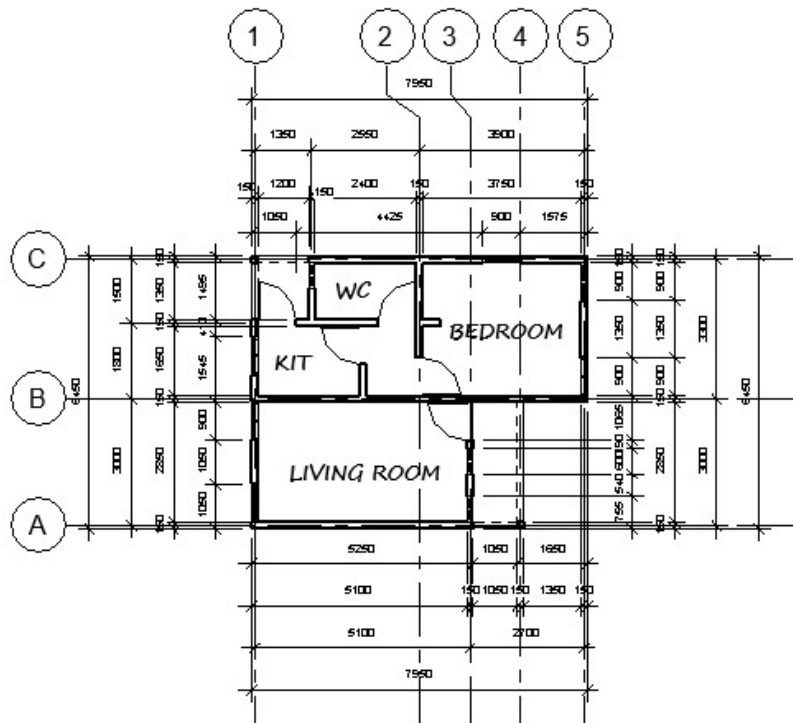


GROUP MEMBERS

- | | |
|-----------------------------|--------------|
| 1. DELIBE NICODEMUS O. | 2017 084 001 |
| 2. MADUBUIKE JUSTICE | 2017 084 002 |
| 3. EKECHI CHIDUBEM C. | 2017 084 003 |
| 4. AKUBUDIKE MARIA-FAUSTINA | 2017 084 004 |
| 5. AKINOKUN LAYIWOLA S. | 2017 084 005 |
| 6. ODIBA TOCHUKWU | 2017 084 006 |
| 7. OKOYE CHUKWUKA G. | 2017 084 007 |
| 8. NDUBUISI IFUNAYAE. | 2017 084 008 |
| 9. OKAFOR CHRISTIAN A. | 2017 084 009 |



FOUNDATION PLAN 1:100MM



GROUND FLOOR PLAN

BILL OF QUANTITIES

	DESCRIPTION	UNIT	QUANTITY	RATE (N)	AMOUNT (N)
1	CLEARING	M ²	71.15	200	14230
2	SETTING OUT				
	Pegs	M	10	60	600
	Purlins	M	10	600	6000
	Rope	M	1	300	300
	Labour	M	27.6	300	8280
	Total Setting Out cost				15,180
3	EXCAVATION	M ³	7.5	500	3750
4	BLINDING				
	Cement	1	12	3600	43200
	Sand	1 trip	2 trips	16000	32000
	Chippings	1 trip	3 trips	18000	54000
	Labour	M ²	12.5	350	4375
	Total				133,575
5	COLUMN BASE				
	Reinforcement				
	Y12mm	1	12	6000	72000
	Y10mm	1	48	4000	192000
	Y8mm	1	10	2000	2000
	Labour	1	12	500	6000
	Total				272,000
6	FOUNDATION FOOTING CASTING				
	Cement	1	36	3600	129600
	Sand	1 trip	3 trips	16000	48000
	Stone	1 trip	4 trips	14000	56000

	Labour	M ²	12.5	600	7500
	Total				241,100
7	FOUNDATION WALLING				
	Cement	1	5	3600	18000
	Sand	1	1 trip	16000	16000
	Block	800	135	3600	108000
	Labour	M ²	12.5	600	7500
	Total				149,500
8	FORMWORK FOR COLUMNS				
	Timber board 25mm x 300mm x 3600m	1	48	500	24000
	Timber section for bracing 50mm x 50mm	1	24	200	4800
	Nail	1	500	10	5000
	Labour	M ²	12	300	3600
	Total				37,400
9	CASTING OF COLUMN				
	Cement	1	24	3600	86400
	Sand	1 trip	2	16000	32,000
	Granite Stones	1 trips	2	14000	28,000
	Water				3000
	Labour	M ³	7.5	750	5625
	Total				155,025
10	BACKFILLING & COMPACTING	M ³	7.5	1000	7500
11	PLACEMENT OF HARDCORE				
	Granite Stones	1 trip	3	18000	54,000
	Labour	M ²	27.6	400	11,040

	Total				65,040
12	PLACEMENT OF DPM				
	Bitumen Sheet	1 bundle	2	900	1800
	Labour	M ²	27.6	100	2760
	Total				4560
13	FORMWORK FOR GROUND FLOOR SLAB				
	Timber board 25mm x 300mm x 3600m	1	8	500	4000
	Nails	1	100	10	1000
	Labour	M ²	27.6	150	4140
	Total				9140
14	CASTING OF GROUND FLOOR SLAB				
	Cement	1	50	3600	180000
	Sand	1 trip	5	16000	80000
	Granite Stone	1 trip	7	14000	98000
	Water				3000
	Labour	M ³	7.5	1200	9000
	Total				370,000
	TOTAL COST				1,478,000

TOTAL COST FOR SUBSTRUCTURE = N 1,478,000

NB:

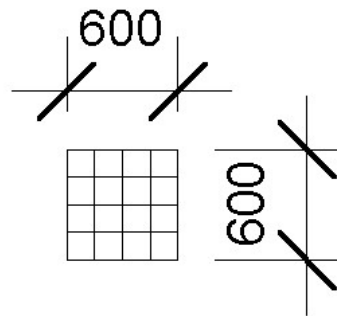
Perimeter of building = 27.6m

Width of foundation Trench = 0.45m

Depth of foundation Trench = 0.60m

Volume of sand to be excavated = $27.6 \times 0.45 \times 0.60 = 7.5$ meter cube

BASKET AREA = $0.60\text{m} \times 0.60\text{m} = 0.36\text{m}^2$



DEPTH OF FOUNDATION:

