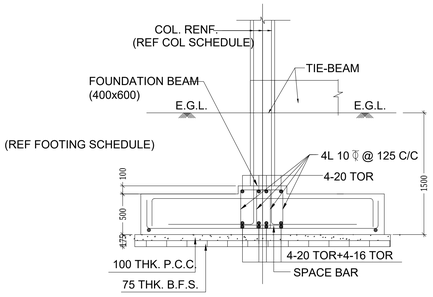
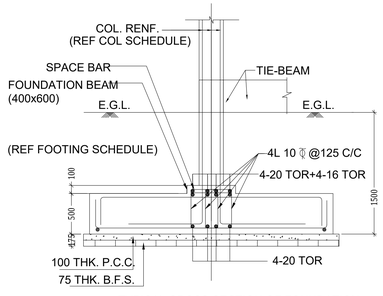
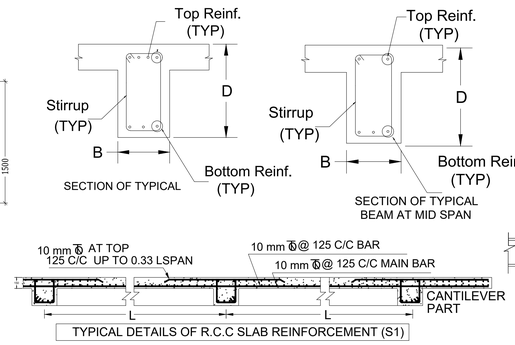


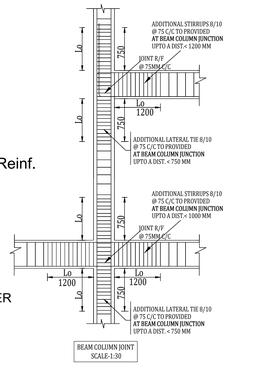
TYPICAL CROSS SECTION OF FOUNDATION AT SUPPORT



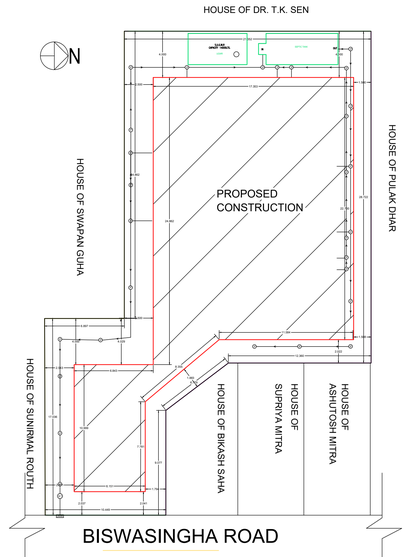
TYPICAL CROSS SECTION OF FOUNDATION AT SPAN & CANTILEVER



TYPICAL DETAILS OF R.C.C SLAB REINFORCEMENT (S1)



BEAM COLUMN JOINT
SCALE-1:30



SITE PLAN
SCALE 1:100

PROJECT DETAILS:

FIVE (G+4) STORIED RESIDENTIAL BUILDING , AT B.S. ROAD
WARD NO. 18 OF COOCHEBHAR MUNICIPALITY,
P.S - KOTWALI, DIST-COOCHBEHAR, PIN- 736101

OWNER
1) MR. PUSHPAYUD SEN,S/O-LATE BIJALI BHUSAN SEN
2) MR. PARTHASARATHI SEN,S/O-LATE INDU BHUSAN SEN
3) MR. TAPAN KUMAR SEN,S/O-LATE BIDHU BHUSAN SEN
4) MR. RIGVED SEN,S/O-LATE BINOY BHUSAN SEN
5) MRS. SHARMISTHA DEB,D/O-LATE INDU BHUSAN SEN
6) MRS. NIBEDITA SEN,W/O-LATE BIJALI BHUSAN SEN

LAND SCHEDULE:

MOUZA : SAHAR COOCHBEHAR J.L. -130
WORD NO: 18 PLOT NO: 10406,10408,10410,10407,10411(L.R.)
KHATIAN NO: 20153,20152,3078,26029,8475,5216 (L.R.)
H.NO: 85/13018
PS:KOTWALI DIST: COOCHBEHAR

AREA CALCULATION:

AREA OF PLOT-	789 SQ.M
GROUND COVERAGE -	477 SQ.M
TYP. FLOOR AREA -	394 SQ.M
TOTAL BUILTUP AREA -	1659 SQ.M
HEIGHT OF THE BUILDING -	15.5 M
INNER WALL THICKNESS- 125 MM ,	OUTER WALL THICKNESS- 250 MM
USER OF SEPTIC TANK - 100	

SCHEDULE OF DOORS & WINDOWS :-

MD:-SINGLE LEAF FULLY PANELED -	1000 X 2100
D1:-SINGLE LEAF FULLY PANELED -	900 X 2100
D2:-HOLLOW CORE FLUSH -	750 X 2100
W1:-FULLY GLAZED WINDOW -	1800 X 1350
W2:-FULLY GLAZED WINDOW -	900 X 1200
F.L.:- FULLY GLAZED FANLIGHT -	750 X 450

GENERAL NOTES:-

1) ALL DIMENSIONS ARE IN METER UNLESS NOTED OTHERWISE.
2) STRUCTURAL CONC SHALL BE OF GRADE M-20 FOR FOUNDATION, COLUMN, BEAM, SLAB
3) ALL LEAN CONC. SHALL BE OF CEMENT CONC. OF MIX 1:4:8 UNLESS NOTED OTHERWISE.
4) ALL REINFORCEMENT SHALL CONFIRM TO IS:1786 - 1985 OF GRADE Fe 512
5) ALL CLEAR COVER TO MAIN REINFORCEMENT SHALL BE 50 MM.

DECLARATION OF OWNER :-

I hereby declare that I am the owner/lessee of the property to be built upon and the copy of the registered deed of the land or other documents in support of ownership/lease of land are submitted herewith. That the aforesaid plot of land is the only plot of vacant land held by me in any of the urban agglomerations covered under the Urban Land (Ceiling and Regulation) Act, 1976 and that extent of that plot is within the ceiling limit on vacant land imposed by the said Act. That I do not hold any other vacant land or any other land with building with a dwelling unit therein in any of the urban agglomerations referred to in the said Act. That in the event of the aforesaid plot of land being declared as excess by the competent authority under the Urban Land (Ceiling and Regulation) Act, 1976, I shall abide by the decision of the competent authority under that Act.

OWNER SIGNATURE

DECLARATION OF ENGINEERS :-

Certified that I have been engaged as Licensed Building Surveyor–I/II/ for the proposed building for planning, designing, supervision and completion of the work as per the West Bengal Municipal (Building) Rules, 2007 (Amended). We undertake to work in close association with each other and will be individually and/or collectively responsible for ensuring the safety of the building as a whole. Certified that the site has been personally inspected while planning the building and/or designing the structural members of foundation and super structure, as well as has taken into account the findings of/or recommendation of stability analysis, Soil Test Report, Load Test Results and other conditions, if any, as and when necessary under these rules including the consideration of bearing capacity and settlement of soil conforming to stipulations of all latest relevant IS Codes of Practice and National Building Code.

SIGNATURE OF L.B.S.

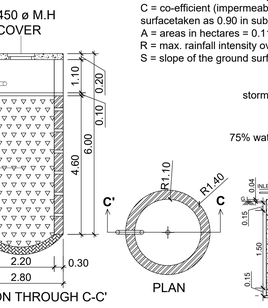
CERTIFICATE OF STRUCTURAL STABILITY:-

I / WE DO HEREBY CERTIFY THAT THE FOUNDATIONS AND SUPERSTRUCTURE OF THE BUILDING PROPSED FOR CONSTRUCTION ON PLOT 72(P),73(P), STREET - 7.80 M WIDE ROAD, WAGRD NO. 42(S.M.C.) UNDER THE JURISDICTION OF SILIGURI MUNICIPAL CORPORATION HAVE BEEN PERSONALLY INSPECTED AND SO DESIGNED BY ME / US WILL MAKE SUCH FOUNDATION AND SUPER STRUCTURE SAFE IN ALL RESPECT INCLUDING THE CONSIDERATION OF BEARING CAPACITY AND SETTLEMENT OF SOIL AND OTHER CONDITIONS, IF ANY, CONFIRMING TO ALL STIPULATIONS OF ALL RELEVANT IS CODE OF PRACTICE AND NATIONAL BUILDING CODE.

SIGN. OF STRUCTURAL ENGINEER | SIGN. OF GEO-TECHNICAL ENGINEER

PREPARED BY: | CHECKDE BY:

IDEAL GEOTECH | TECHNO We Shape your Dream Home



SECTION THROUGH C-C'

PLAN

DETAILS OF SOAK WELL
SCALE - 1:1 (IN DRAWING)
1:175 (IN PRINT)

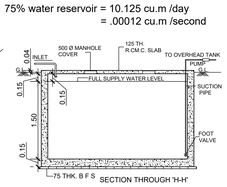
Rainfall runoff drainage design is : $Q = \frac{CAR\sqrt[4]{S/A}}{455}$

Q = run-off in cubic metres per second
C = co-efficient (impermeability factor of the surfacetaken as 0.90 in suburban areas)
A = areas in hectares = 0.115 hectares
R = max. rainfall intensity over the entire area = 200
S = slope of the ground surface in metres per thousand

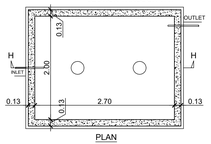
storm water : $Q = \frac{0.9 \times 0.115 \times 200\sqrt[4]{0.001/0.115}}{455}$

= 0.014 cu.m /second

75% water reservoir = 10.125 cu.m /day
= .00012 cu.m /second

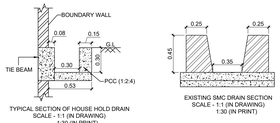


SECTION THROUGH 'H-H'



PLAN

UNDER GROUND WATER RESERVOIR DETAIL
(CAPACITY - 8100 Ltrs.)
SCALE - 1:1 (IN DRAWING)
1:50 (IN PRINT)



TYPICAL SECTION OF HOUSE HOLD DRAIN
SCALE - 1:1 (IN DRAWING)
1:30 (IN PRINT)

EXISTING SMC DRAIN SECTION
SCALE - 1:1 (IN DRAWING)
1:30 (IN PRINT)

SCHEDULE OF FLOOR SLABS

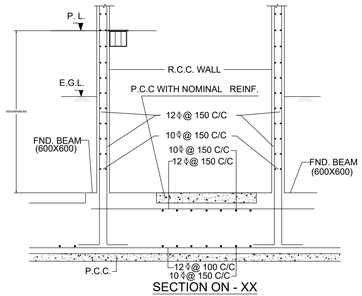
SLAB MKD.	SLAB THK (mm)	REINFORCEMENT					
		ALONG SHORTER DIRECTION(MAIN R/F)			ALONG LONGER DIRECTION(DIST. R/F)		
		DISCON.SUP. (TOP)	SPAN (BOT.)	CONT. SUP. (TOP)	DISCON.SUP. (TOP)	SPAN (BOT.)	CONT. SUP. (TOP)
S1	150	10ø @125 C/C	10ø @125 C/C	10ø@125 C/C	10ø @125 C/C	10ø @125 C/C	10ø @125 C/C

SCHEDULE OF STRIP FOOTINGS

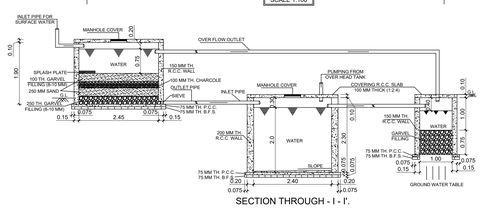
FTG. TYPE	FND. DEPTH	FOOTING SIZE		FOOTING SLAB THICKNESS	FOOTING REINFORCEMENT BOTTOM	
		L (mm)	B (mm)	(D1) (mm)	(Along Long) b1	(Along Short) b2
STRIP	1500	AS/ PLAN	3000	500	10 @ 150 C/C (DIST.)	12 @ 100 C/C (MAIN)

SCHEDULE OF RAFT FOOTING

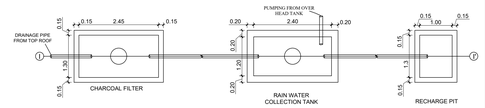
FTG. TYPE	FND. DEPTH	FOOTING SIZE		FOOTING SLAB THICKNESS	FOOTING REINFORCEMENT BOTTOM	
		L (mm)	B (mm)	(D1) (mm)	TOP R/F. bothways	BOT. R/F. bothways
RAFT	1500	AS/ PLAN	AS/ PLAN	300	12 @ 150 C/C (DIST.)	12 @ 150 C/C (MAIN)



SECTION ON - XX
(R.C.C. DET. OF LIFT PIT)
SCALE - 1:25



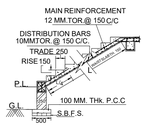
SECTION THROUGH - I - I'.



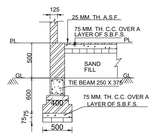
PLAN OF RAIN WATER HARVESTING SYSTEM
SCALE - 1:1 (IN DRAWING)
1:100 (IN PRINT)

SCHEDULE OF TIE BEAM & TYPICAL FLOOR BEAM

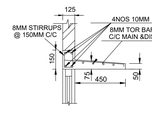
BEAM MKD.	SECTION	SUPPORT R/F		SPAN R/F		STIRRUP	
		TOP	BOTTOM	TOP	BOTTOM	SUPPORT (LETTER LO TO 0.3L)	SPAN
TB(TIE BEAM)	300 X 400	4-16	4-16	4-16	4-16	2L-8 @ 100 C/C	2L-8 @ 100 C/C
BI	300 X 500	4-20 + 3-20	4-20 + 3-20	4-20 + 3-20	4-20 + 3-20	2L-10 @ 100 C/C	2L-10 @ 100 C/C
B2	300 X 450	4-16 + 3-16	4-16 + 3-16	4-16 + 3-16	4-16 + 3-16	2L-8 @ 100 C/C	2L-8 @ 100 C/C
B3	300 X 400	3-16 + 2-16	4-16 + 2-16	3-16 + 2-16	4-16 + 2-16	2L-8 @ 100 C/C	2L-8 @ 100 C/C
B4	300 X 375	3-16 + 2-16	3-16 + 2-16	3-16 + 2-16	3-16 + 2-16	2L-8 @125 C/C	2L-8 @125 C/C



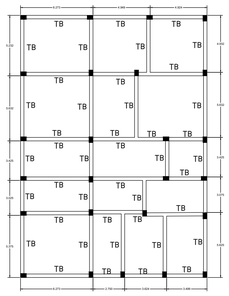
DETAIL OF STAIR REINFORCEMENT
SCALE 1:30



WALL(125) FOUNDATION
SCALE:- 1:30



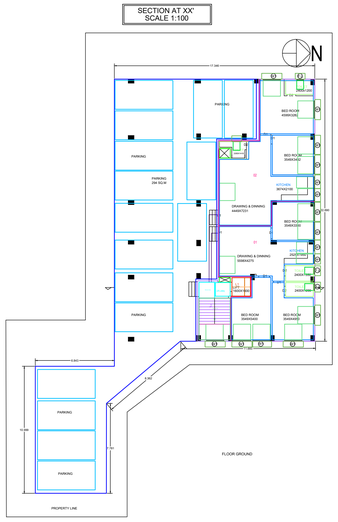
DETAILS OF LINTEL & CHAJJA
SCALE-1:30



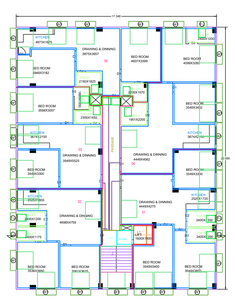
TIE BEAM LAYOUT PLAN
SCALE 1:100

SCHEDULE OF COMBINED FOUNDATION BEAMS

BEAM MKD.	SIZE		REINFORCEMENT								
	WIDTH (mm)	DEPTH (mm)	CANTILEVER		SPAN		CONT. SUPP.		STIRRUPS		
			TOP	BOTT.	TOP	BOTT.	TOP	BOTT.	SUPP.	SPAN	CANTI.
CFB1	600	600	6-20	6-20 + 6-20	6-20 + 6-20	6-20	6-20	6-20 + 6-20	4L-10@ 125 C/C	4L-10@ 125 C/C	4L-10 @ 125 C/C

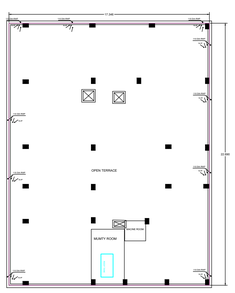


GROUND FLOOR PLAN
SCALE 1:100



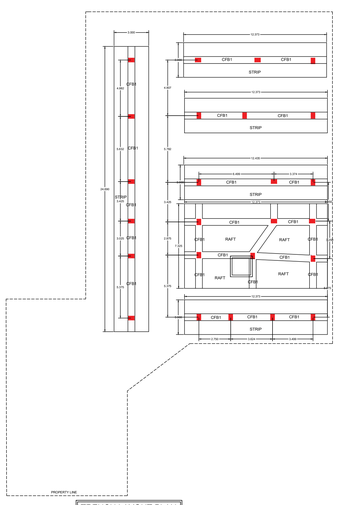
FLOOR01,FLOOR02,FLOOR03,FLOOR04 - TYPICAL
PROPOSED TYPICAL FLOOR PLAN
1ST TO 4TH FLOOR.

TYP. FLOOR PLAN
SCALE 1:100

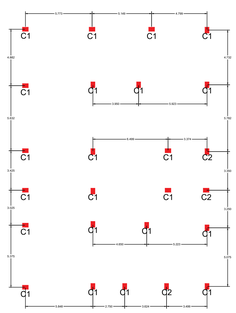


FLOOR-TERRACE

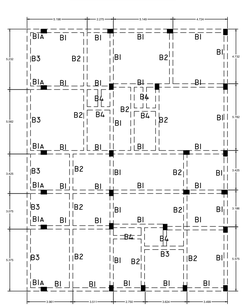
ROOF FLOOR PLAN
SCALE 1:100



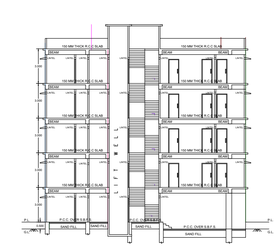
TRENCH LAYOUT PLAN
SCALE 1:100



COLUMN LAYOUT PLAN
SCALE 1:100

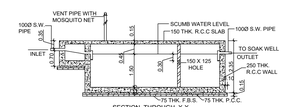


BEAM LAYOUT PLAN
SCALE 1:100

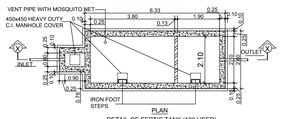


SECTION AT XX'
SCALE 1:100

FRONT ELEVATION
SCALE 1:100



SECTION THROUGH X-X



PLAN
DETAIL OF SEPTIC TANK (100 USER)
SCALE 1:1 (IN DRAWING)
1:100 (IN PRINT)

Signature Not Verified
Digitally signed by
Date: 2025.08.26 18:59:32
IST
Reason: SelfAttested