

Plan No. PPNR/12/22.00/91.0  
25/1/2020  
New  
A/E

**DESIGN OF SEPTIC TANK WITH TWO UP FLOW FILTERS.**

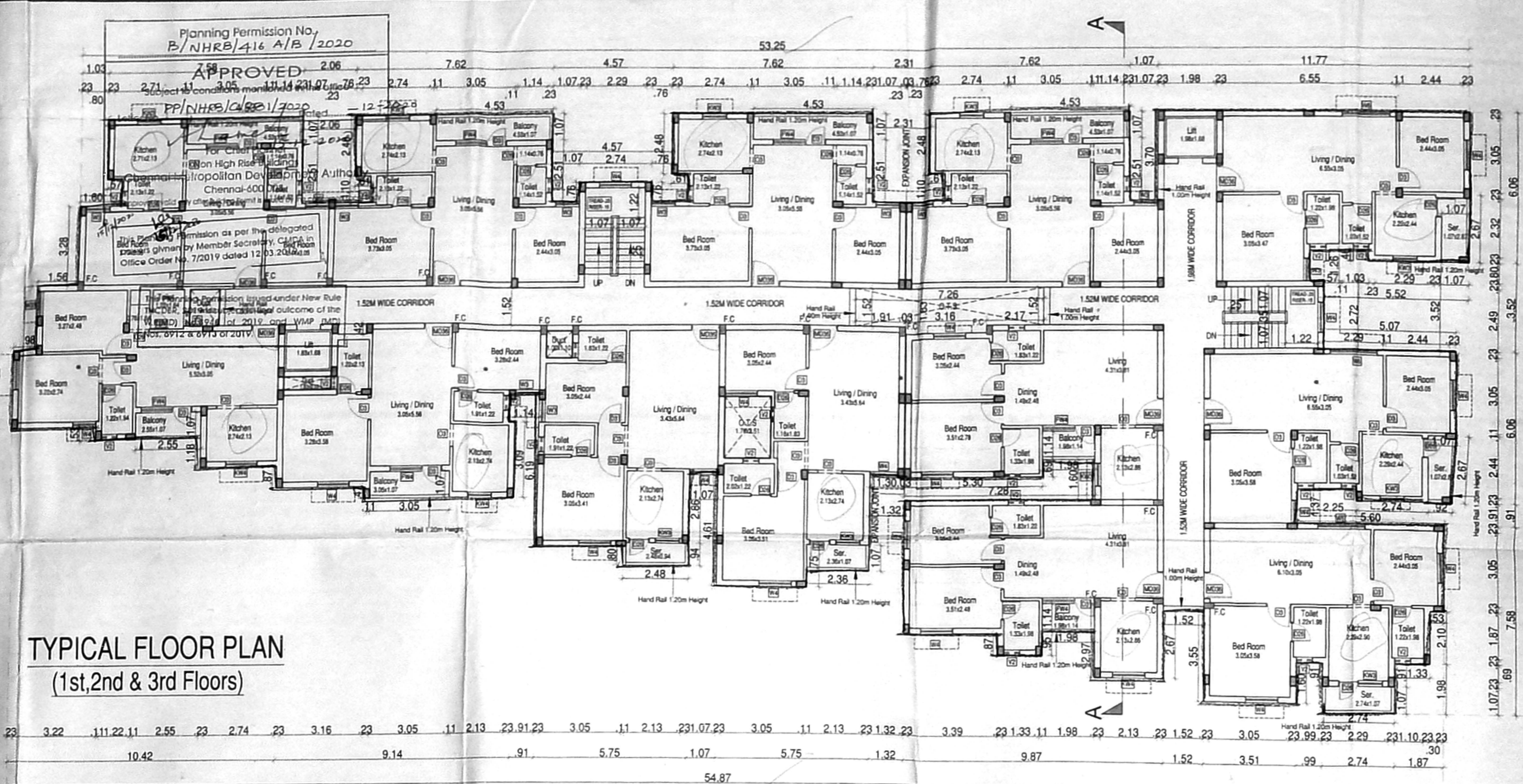
No. of dwellings - 39 units  
 No. of Users - 5X39 = 195nos.  
 Rate of water supply is - 75 LPH/Day.  
 Then flow of sewage per day - 195x75 = 14,625 Lts./Day.  
 Detention period is - 18 Hrs.  
 Tank capacity - 14625x18 = 1096.875 Lts.  
 24

The tank is to be cleared every year. So the sludge storage capacity at the rate of 15Lts./person/year.  
 - 195x15 = 2925  
 - 14625+2925 = 17550

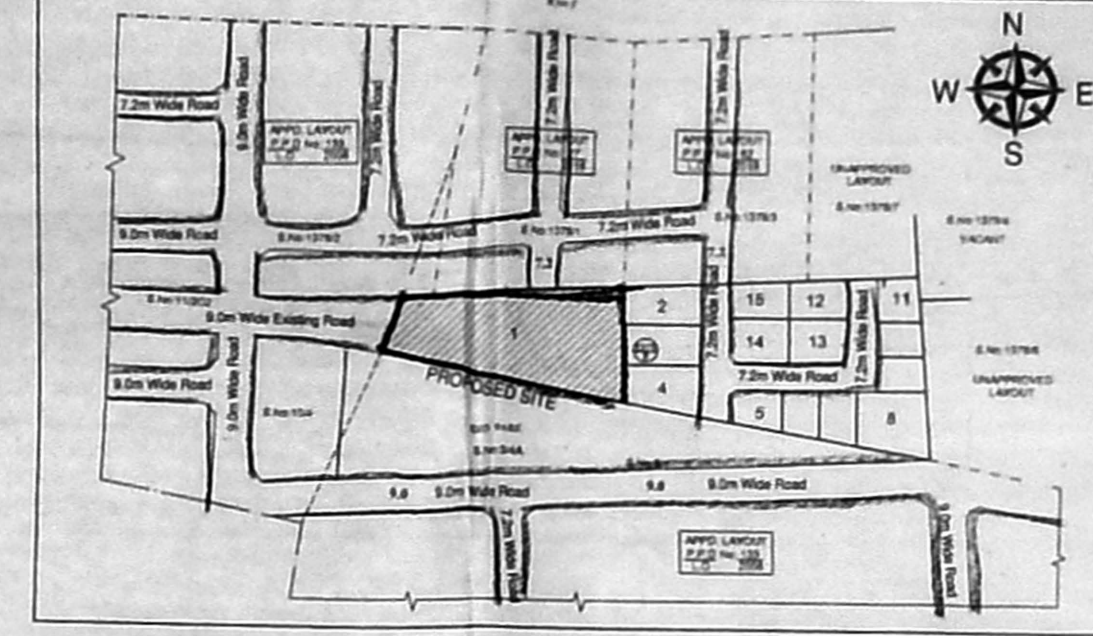
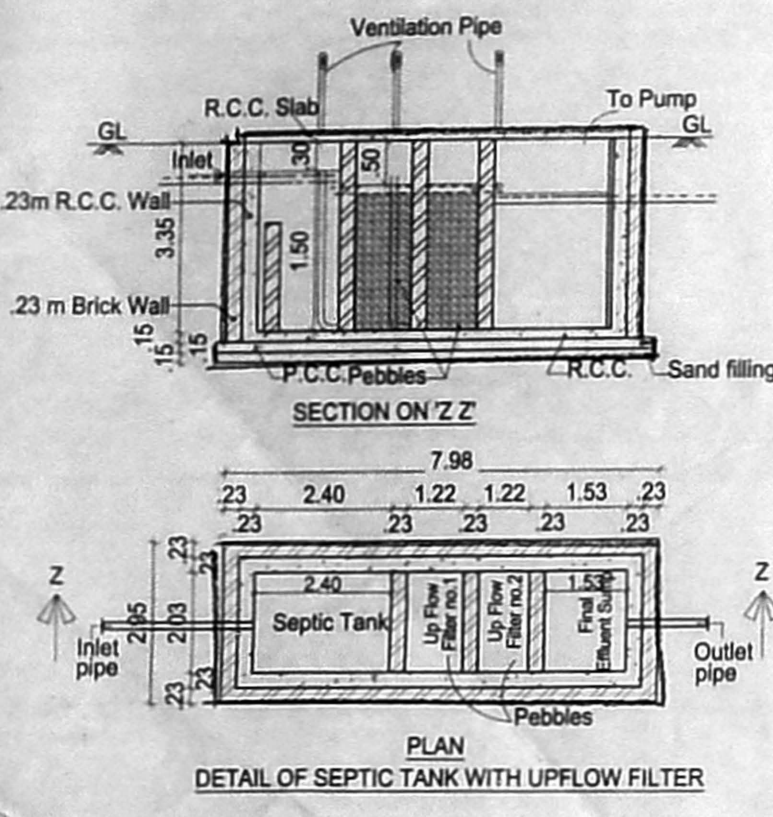
With provision for future expansion let the total capacity be 18,000 lts. approximately taken as 18 m<sup>3</sup>  
 Septic tank having the capacity of - 18m<sup>3</sup>  
 Depth of liquid as - 3.05  
 Plan of the Tank - 1.9 x 5.90  
 Breadth of the Tank - 2.95  
 Length of the Tank - 2.95  
 Free board of the Tank - 0.30  
 Total depth of the Tank - 3.05+0.30 = 3.35  
 PROVIDE SEPTIC TANK OF THE SIZE - 2.40 x 2.03 x 3.35

**UP FLOW FILTERS**  
 Discharge for 3 persons - 14625 Lts.  
 Volume - 3.00x0.98x2.94  
 Depth - 1.80m-0.50m = 1.30  
 Plan area required - 2.94 = 2.26 m<sup>2</sup>  
 2.70

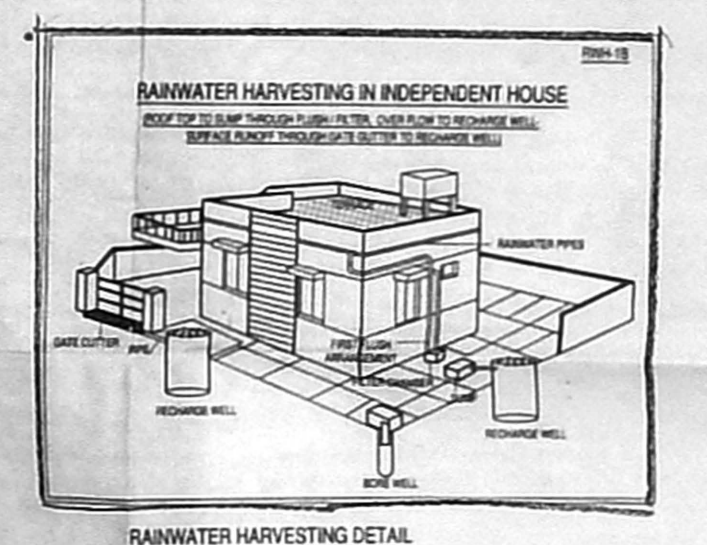
SIZE OF THE FINAL EFFLUENT SUMP - 1.53x2.95x3.35  
 UP FLOW FILTER NO 1 - 1.22x2.03x3.35  
 UP FLOW FILTER NO 2 - 1.22x2.03x3.35



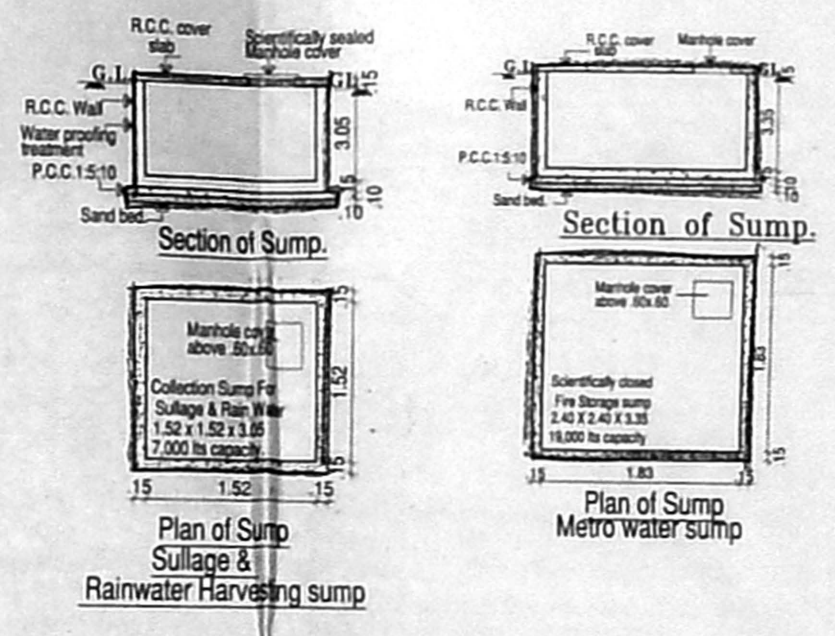
TYPICAL FLOOR PLAN (1st, 2nd & 3rd Floors)



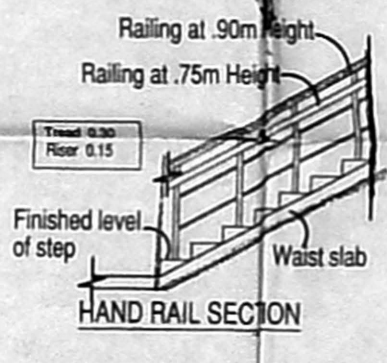
KEY PLAN (N.T.S.)



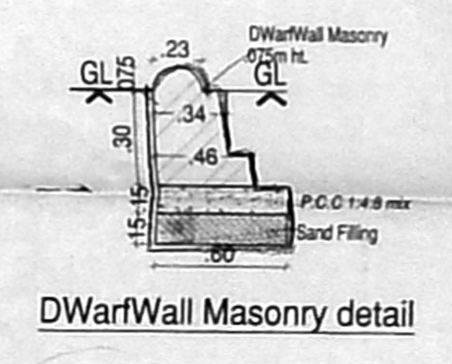
RAINWATER HARVESTING DETAIL



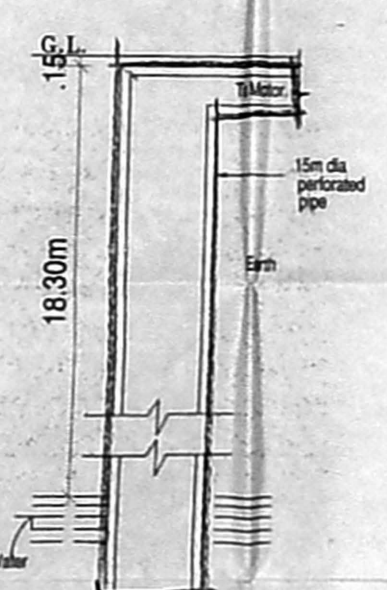
Section of Sump, Plan of Sump Metro water sump



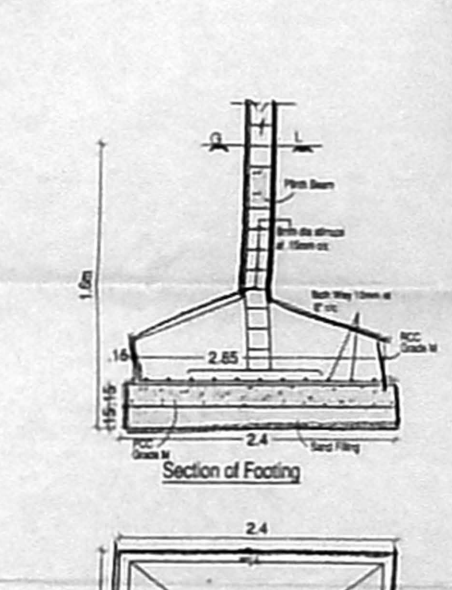
HAND RAIL SECTION



Dwarf Wall Masonry detail



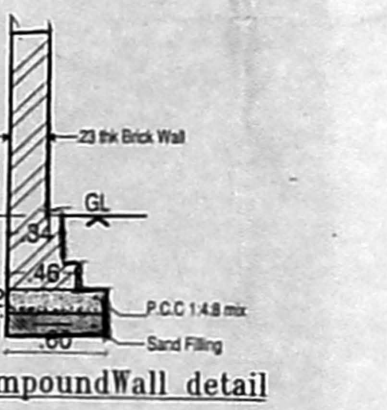
Bore Well Detail



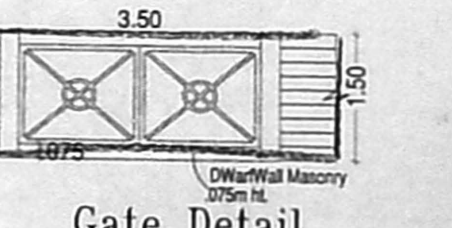
Section of Footing



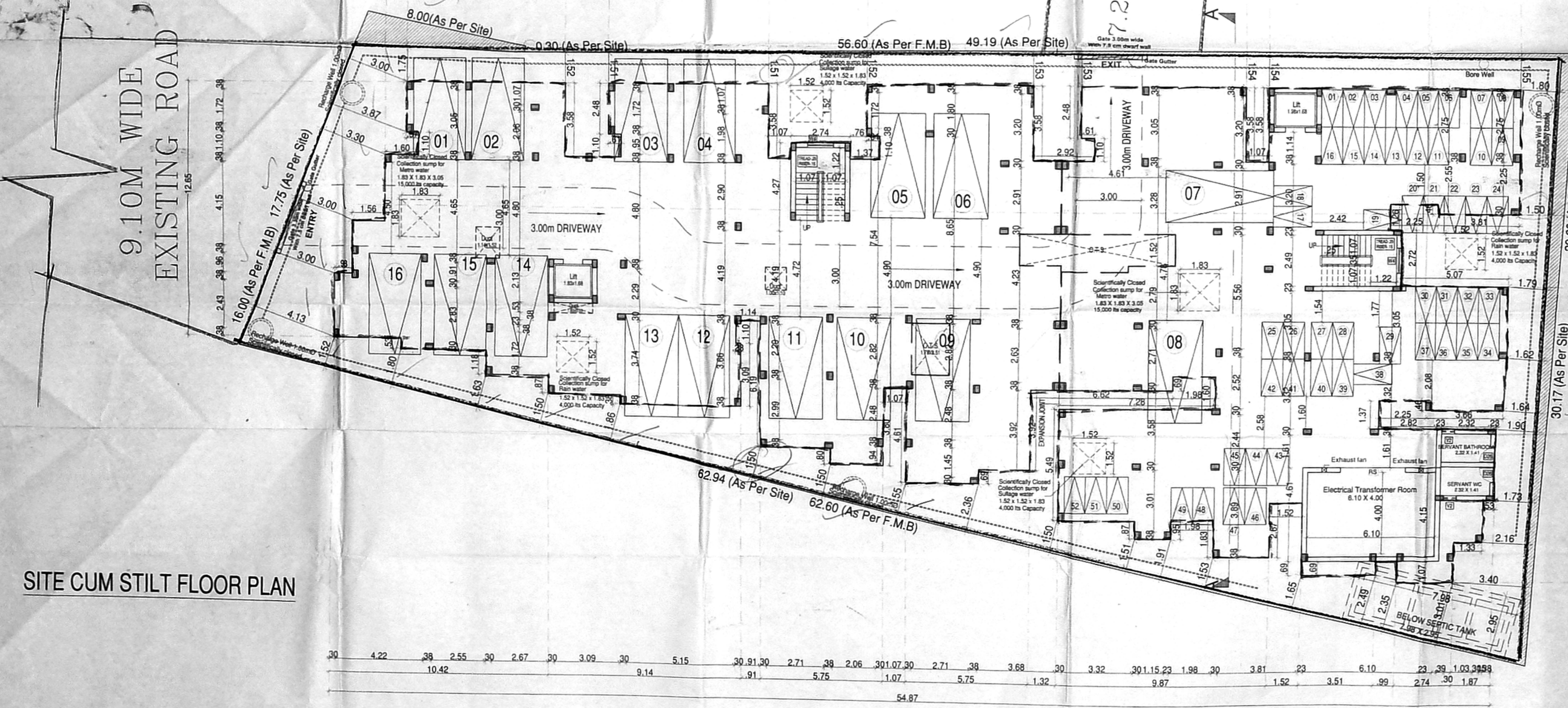
Column Foundation detail Plan of Footing



Compound Wall detail



Gate Detail



SITE CUM STILT FLOOR PLAN

SITE CUM STILT FLOOR PLAN & TYPICAL FLOOR PLAN (1st, 2nd & 3rd Floors)  
 PLAN SHOWING THE PROPOSED CONSTRUCTION OF STILT + 3 FLOORS RESIDENTIAL BUILDING WITH 39 DWELLING UNITS AT PLOT NO -1, VINAYAGAM AVENUE, KUNDRATHUR, CHENNAI. (CMDA APPROVED LAYOUT PPD/L.O.NO.29/2019) COMPRISED IN S.NO - 1378 / 8A OF KUNDRATHUR VILLAGE, PREVIOUSLY PALLAVARAM TALUK, NOW KUNDRATHUR TALUK, KANCHEEPURAM DISTRICT. KUNDRATHUR TOWN PANCHAYAT LIMIT.

**Specification:**  
 Foundation: R.C.C Column footing grade of Concrete M20  
 R.C.C Work: For lintel, Beams, sunshade, Roof, etc., with required thickness cement concrete used M-25 grade  
 Super Structure: B.W in C.M 1:5  
 Flooring: Vitrified Tiles  
 Joinery: Best Indian Country Wood  
 Finishes: Exterior & interior painted with cement paint.  
 Weathering course: Brick jelly lime conc. below the weathering tiles

**Schedule of Joineries:**  
 MD 1.07 X 2.13 Sliding Door  
 D3 0.91 X 2.13 Panellled Door  
 D26 0.76 X 2.13 Panellled Door  
 W6 1.83 X 1.37 window  
 W4 1.22 X 1.37 window  
 W3 0.91 X 1.37 window  
 FW4 1.22 X 1.98 French window  
 FW3 0.91 X 1.98 French window  
 KW3 0.91 X 1.07 Kitchen window  
 KW4 1.22 X 1.07 Kitchen window  
 V2 0.61 X 0.61 Ventilator

**AREA STATEMENT**

PLOT AREA AS PER PATTA	1366.00 Sq.m
PLOT AREA AS PER DOCUMENT	1365.72 Sq.m

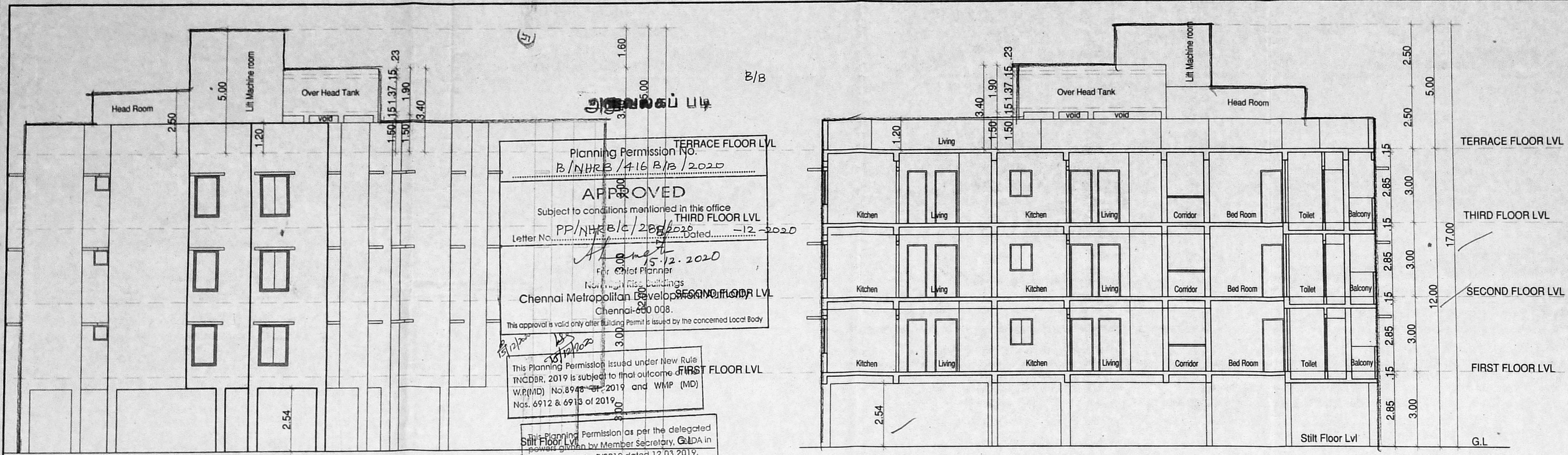
FLOOR	F.S.I (Sq.m)	F.S.I Achieved
STILT FLOOR	29.21	1.982
FIRST FLOOR	892.33	Car Parking Provided - 16 Nos
SECOND FLOOR	892.33	T.W Parking Provided - 52 Nos
THIRD FLOOR	892.33	
TOTAL	2706.2	

ALL DIMENSIONS ARE IN METRES  
 SCALE 1: 100  
 LEGEND:  
 PROPOSED SHOWN IN [Symbol]  
 BOUNDARY SHOWN IN [Symbol]  
 ROAD SHOWN IN [Symbol]

OWNER'S SIGNATURE

ARCHITECT SIGNATURE

H. SATHYANARAYAN, B. Arch  
 Regd. No. CA/2015/67618  
 Plot No. 91, Krishnapuram Extn.,  
 Manthapuram Nagar, 1st Street,  
 Ambattur, Chennai - 600 063.



**TERRACE FLOOR PLAN, ELEVATION & SECTION 'A-A'** SHEET NO- 2/2

PLAN SHOWING THE PROPOSED CONSTRUCTION OF STILT + 3 FLOORS RESIDENTIAL BUILDING WITH 39 DWELLING UNITS AT PLOT NO-1, VINAYAGAM AVENUE, KUNDRATHUR, CHENNAI (CMDA APPROVED LAYOUT PPD/LD NO 29/2019) COMPRISED IN S.NO - 1378 / 8A OF KUNDRATHUR VILLAGE, PREVIOUSLY PALLAVARAM TALUK, NOW KUNDRATHUR TALUK, KANCHEEPURAM DISTRICT. KUDRATHUR TOWN PANCHAYAT LIMIT.

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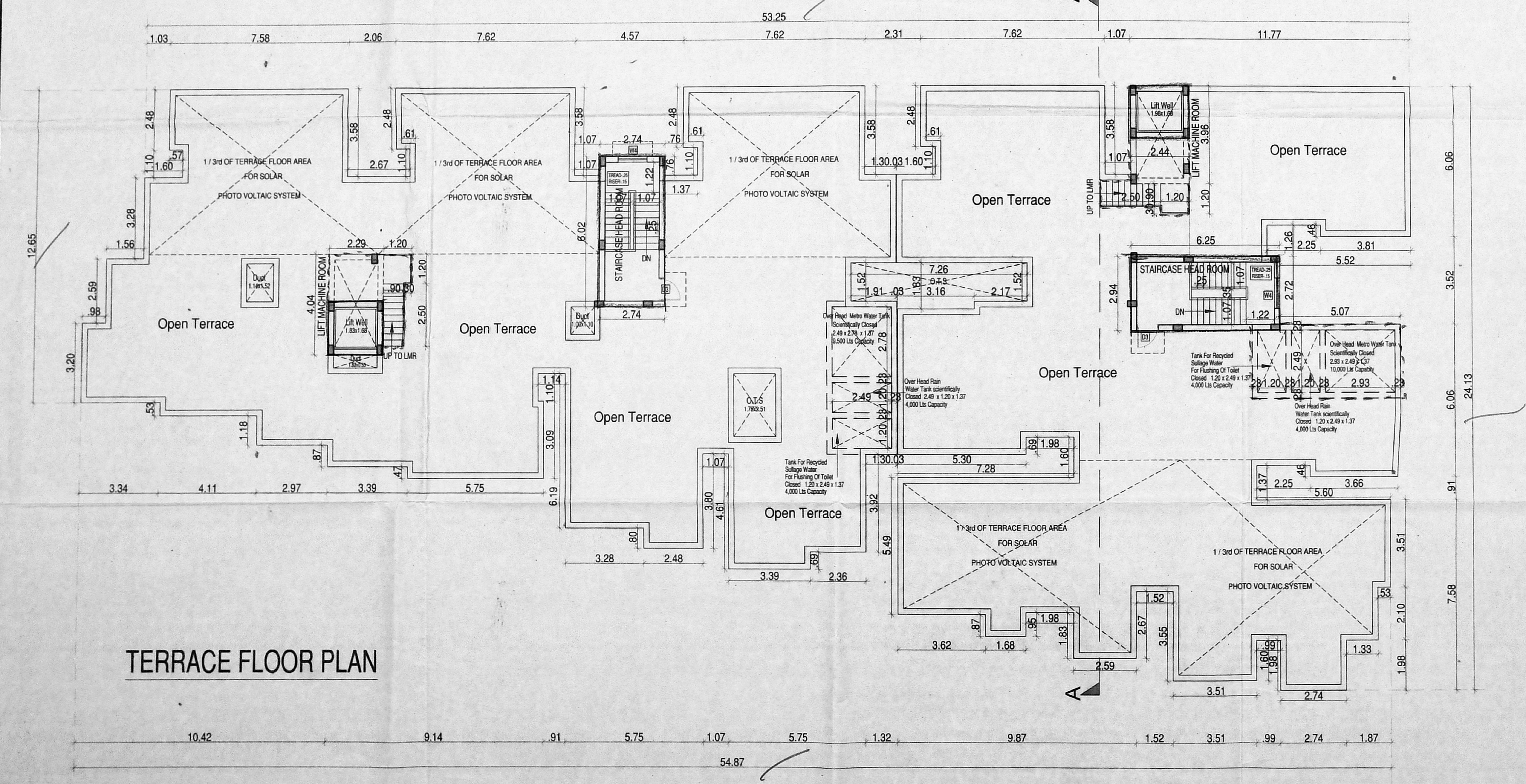
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R.C.C.Work :For Lintel, Beams, sunshade, Roof, etc., with required thickness cement concrete used M-25 grade  
Super Structure :B.W in C.M 1:5  
Flooring :Vitrified Tiles  
Joinery :Best Indian Country Wood  
Finishes :Exterior & interior painted with cement paint.  
Weathering course :Brick jelly lime conc. below

ALL DIMENSIONS ARE IN METRES NORTH POINT

SCALE 1: 100

LEGEND:

PROPOSED SHOWN IN [Symbol]  
BOUNDARY SHOWN IN [Symbol]  
ROAD SHOWN IN [Symbol]



OWNER'S SIGNATURE

For MP DEVELOPERS

ARCHITECT SIGNATURE

H. SATHARU ROOHI, B.Arch  
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Manthapu Nagar, 1st Street,  
Ambattur, Chennai - 600 053.