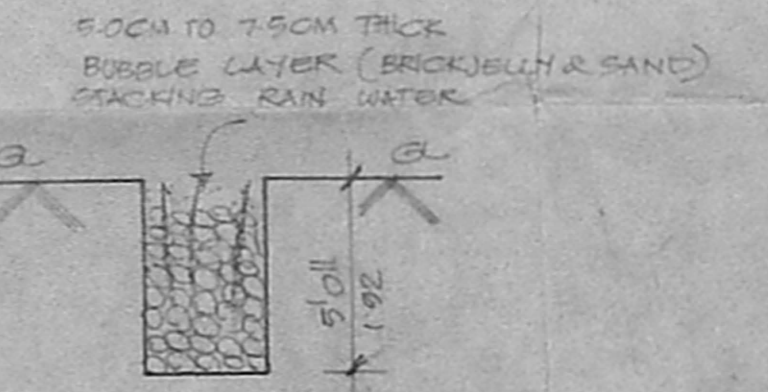
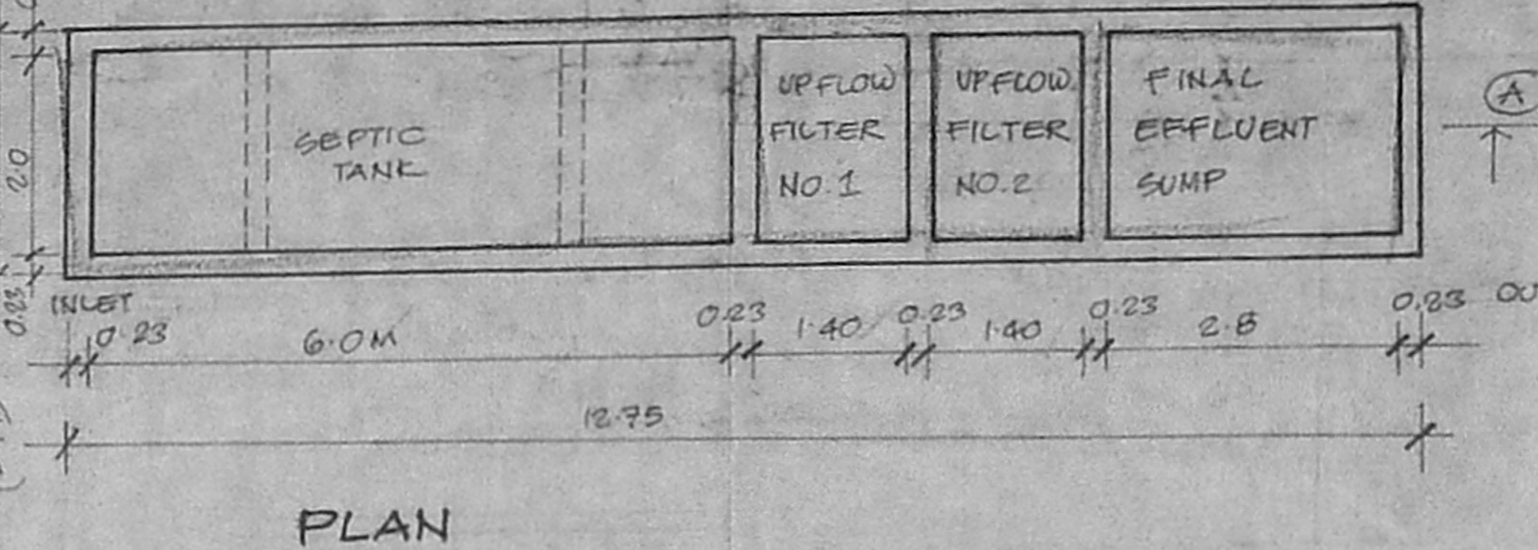
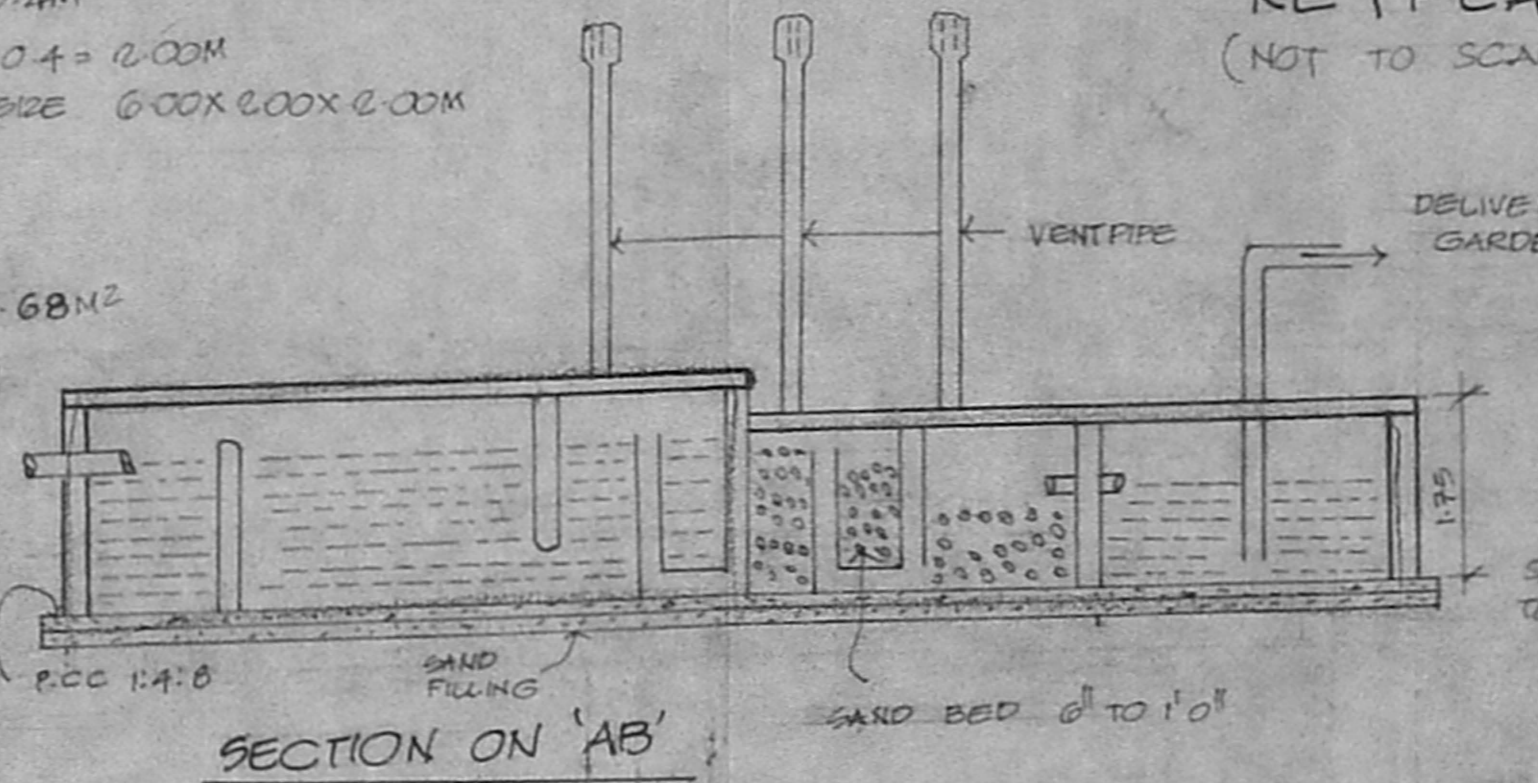
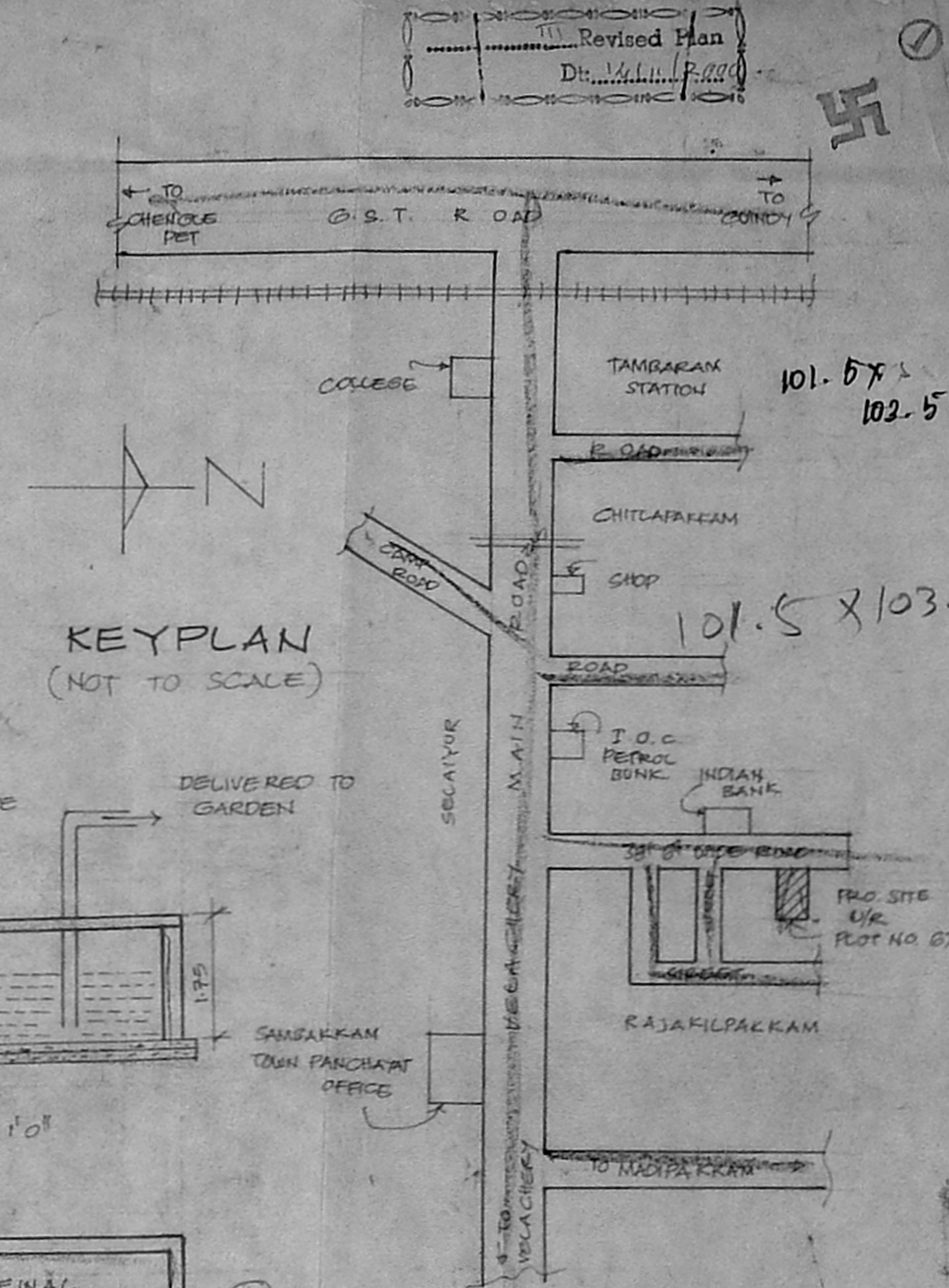


DESIGN OF SEPTIC TANK WITH TWO UPFLOW FILTERS

NO. OF DWELLINGS 1800
 NO. OF UNITS 1800
 RATE OF WATER SUPPLY 100 LPH/DAY
 DAILY FLOW OF WASTE PER DAY 1800 x 100 = 180,000 LITRES
 DETENTION PERIOD 18 HRS
 TANK CAPACITY 18000 x 18/24 = 1,35,000 LITRES
 THE TANK IS TO BE CLEANED EVERY YEAR. SO PROVIDE STORAGE CAPACITY AT THE RATE OF 60 LTRS FOR PERSON PER YEAR
 1800 x 60 = 1,08,000 LTRS
 1,35,000 + 1,08,000 = 2,43,000 LTRS

FOR PROVISION FOR FUTURE EXPANSION, LET THE TOTAL TANK CAPACITY BE 30,000 LTRS (OR) 30M³
 SEPTIC TANK HAVING A CAPACITY OF 30M³
 DEPTH OF TANK AS 1.80M
 PLAN AREA OF THE TANK = 30/1.80 = 16.67 M²
 THE RATIO OF LENGTH TO WIDTH OF TANK AS 3
 LENGTH X BREADTH X 3
 BREADTH OF TANK = 1/3 x 3 = 1.452 SAY 2.0M
 LENGTH OF TANK = 2.3 x 3 = 6.9M
 FREE BOARD OF THE TANK = 0.4M
 TOTAL DEPTH OF THE TANK 1.80 + 0.4 = 2.20M
 PROVIDE ONE SEPTIC TANK OF THE SIZE 6.00 X 2.00 X 2.20M

UPFLOW FILTERS
 DISCHARGE OR 75,000 LTRS
 VOLUME 6.00 X 2.00 X 2.15 = 2.58 M³
 DEPTH 2.15 M
 PLAN AREA REQUIRED 2.15 / 0.80 = 2.68 M²
 SIZE OF FINAL EFFLUENT TANK 2.00 X 2.00 X 1.50
 FILTER NO.1 1.00 X 0.80 X 0.8
 UPFLOW FILTER NO.2 1.00 X 0.80 X 0.8



PLAN SHOWING THE PROPOSED CONSTRUCTION OF A RESIDENTIAL BUILDING IN PLOT NO. 67 (67C, 67D, AND NORTHERN PORTION OF 67E) IN RANGACOLONY, S.NO. 120/A/1A/1B, 120/37 AND 120/38 OF SEMBARKAM VILLAGE, TAMBARAM TALUK, KANCHEEPURAM DIST. SCALE: 1 INCH = 8 FEET OR 1/100

JOINERY

| D | DOOR | 3'3" x 7'0" | 1.00 x 2.44 |
|------|--------|--------------|-------------|
| D1 | DOOR | 3'0" x 7'0" | 0.81 x 2.44 |
| D2 | DOOR | 2'6" x 7'0" | 0.76 x 2.44 |
| D3 | DOOR | 2'4" x 7'0" | 0.64 x 2.44 |
| W | WINDOW | 6'0" x 4'0" | 1.83 x 1.27 |
| W1 | WINDOW | 4'6" x 4'0" | 1.37 x 1.27 |
| W2 | WINDOW | 3'6" x 4'0" | 1.00 x 1.27 |
| W3 | WINDOW | 2'6" x 4'0" | 0.64 x 1.27 |
| W4 | WINDOW | 2'11" x 4'0" | 0.61 x 1.27 |
| W5 | WINDOW | 2'0" x 4'0" | 0.61 x 1.27 |
| W6 | WINDOW | 2'0" x 4'0" | 0.61 x 1.27 |
| W7 | WINDOW | 2'0" x 4'0" | 0.61 x 1.27 |
| W8 | WINDOW | 2'0" x 4'0" | 0.61 x 1.27 |
| W9 | WINDOW | 2'0" x 4'0" | 0.61 x 1.27 |
| W10 | WINDOW | 2'0" x 4'0" | 0.61 x 1.27 |
| W11 | WINDOW | 2'0" x 4'0" | 0.61 x 1.27 |
| W12 | WINDOW | 2'0" x 4'0" | 0.61 x 1.27 |
| W13 | WINDOW | 2'0" x 4'0" | 0.61 x 1.27 |
| W14 | WINDOW | 2'0" x 4'0" | 0.61 x 1.27 |
| W15 | WINDOW | 2'0" x 4'0" | 0.61 x 1.27 |
| W16 | WINDOW | 2'0" x 4'0" | 0.61 x 1.27 |
| W17 | WINDOW | 2'0" x 4'0" | 0.61 x 1.27 |
| W18 | WINDOW | 2'0" x 4'0" | 0.61 x 1.27 |
| W19 | WINDOW | 2'0" x 4'0" | 0.61 x 1.27 |
| W20 | WINDOW | 2'0" x 4'0" | 0.61 x 1.27 |
| W21 | WINDOW | 2'0" x 4'0" | 0.61 x 1.27 |
| W22 | WINDOW | 2'0" x 4'0" | 0.61 x 1.27 |
| W23 | WINDOW | 2'0" x 4'0" | 0.61 x 1.27 |
| W24 | WINDOW | 2'0" x 4'0" | 0.61 x 1.27 |
| W25 | WINDOW | 2'0" x 4'0" | 0.61 x 1.27 |
| W26 | WINDOW | 2'0" x 4'0" | 0.61 x 1.27 |
| W27 | WINDOW | 2'0" x 4'0" | 0.61 x 1.27 |
| W28 | WINDOW | 2'0" x 4'0" | 0.61 x 1.27 |
| W29 | WINDOW | 2'0" x 4'0" | 0.61 x 1.27 |
| W30 | WINDOW | 2'0" x 4'0" | 0.61 x 1.27 |
| W31 | WINDOW | 2'0" x 4'0" | 0.61 x 1.27 |
| W32 | WINDOW | 2'0" x 4'0" | 0.61 x 1.27 |
| W33 | WINDOW | 2'0" x 4'0" | 0.61 x 1.27 |
| W34 | WINDOW | 2'0" x 4'0" | 0.61 x 1.27 |
| W35 | WINDOW | 2'0" x 4'0" | 0.61 x 1.27 |
| W36 | WINDOW | 2'0" x 4'0" | 0.61 x 1.27 |
| W37 | WINDOW | 2'0" x 4'0" | 0.61 x 1.27 |
| W38 | WINDOW | 2'0" x 4'0" | 0.61 x 1.27 |
| W39 | WINDOW | 2'0" x 4'0" | 0.61 x 1.27 |
| W40 | WINDOW | 2'0" x 4'0" | 0.61 x 1.27 |
| W41 | WINDOW | 2'0" x 4'0" | 0.61 x 1.27 |
| W42 | WINDOW | 2'0" x 4'0" | 0.61 x 1.27 |
| W43 | WINDOW | 2'0" x 4'0" | 0.61 x 1.27 |
| W44 | WINDOW | 2'0" x 4'0" | 0.61 x 1.27 |
| W45 | WINDOW | 2'0" x 4'0" | 0.61 x 1.27 |
| W46 | WINDOW | 2'0" x 4'0" | 0.61 x 1.27 |
| W47 | WINDOW | 2'0" x 4'0" | 0.61 x 1.27 |
| W48 | WINDOW | 2'0" x 4'0" | 0.61 x 1.27 |
| W49 | WINDOW | 2'0" x 4'0" | 0.61 x 1.27 |
| W50 | WINDOW | 2'0" x 4'0" | 0.61 x 1.27 |
| W51 | WINDOW | 2'0" x 4'0" | 0.61 x 1.27 |
| W52 | WINDOW | 2'0" x 4'0" | 0.61 x 1.27 |
| W53 | WINDOW | 2'0" x 4'0" | 0.61 x 1.27 |
| W54 | WINDOW | 2'0" x 4'0" | 0.61 x 1.27 |
| W55 | WINDOW | 2'0" x 4'0" | 0.61 x 1.27 |
| W56 | WINDOW | 2'0" x 4'0" | 0.61 x 1.27 |
| W57 | WINDOW | 2'0" x 4'0" | 0.61 x 1.27 |
| W58 | WINDOW | 2'0" x 4'0" | 0.61 x 1.27 |
| W59 | WINDOW | 2'0" x 4'0" | 0.61 x 1.27 |
| W60 | WINDOW | 2'0" x 4'0" | 0.61 x 1.27 |
| W61 | WINDOW | 2'0" x 4'0" | 0.61 x 1.27 |
| W62 | WINDOW | 2'0" x 4'0" | 0.61 x 1.27 |
| W63 | WINDOW | 2'0" x 4'0" | 0.61 x 1.27 |
| W64 | WINDOW | 2'0" x 4'0" | 0.61 x 1.27 |
| W65 | WINDOW | 2'0" x 4'0" | 0.61 x 1.27 |
| W66 | WINDOW | 2'0" x 4'0" | 0.61 x 1.27 |
| W67 | WINDOW | 2'0" x 4'0" | 0.61 x 1.27 |
| W68 | WINDOW | 2'0" x 4'0" | 0.61 x 1.27 |
| W69 | WINDOW | 2'0" x 4'0" | 0.61 x 1.27 |
| W70 | WINDOW | 2'0" x 4'0" | 0.61 x 1.27 |
| W71 | WINDOW | 2'0" x 4'0" | 0.61 x 1.27 |
| W72 | WINDOW | 2'0" x 4'0" | 0.61 x 1.27 |
| W73 | WINDOW | 2'0" x 4'0" | 0.61 x 1.27 |
| W74 | WINDOW | 2'0" x 4'0" | 0.61 x 1.27 |
| W75 | WINDOW | 2'0" x 4'0" | 0.61 x 1.27 |
| W76 | WINDOW | 2'0" x 4'0" | 0.61 x 1.27 |
| W77 | WINDOW | 2'0" x 4'0" | 0.61 x 1.27 |
| W78 | WINDOW | 2'0" x 4'0" | 0.61 x 1.27 |
| W79 | WINDOW | 2'0" x 4'0" | 0.61 x 1.27 |
| W80 | WINDOW | 2'0" x 4'0" | 0.61 x 1.27 |
| W81 | WINDOW | 2'0" x 4'0" | 0.61 x 1.27 |
| W82 | WINDOW | 2'0" x 4'0" | 0.61 x 1.27 |
| W83 | WINDOW | 2'0" x 4'0" | 0.61 x 1.27 |
| W84 | WINDOW | 2'0" x 4'0" | 0.61 x 1.27 |
| W85 | WINDOW | 2'0" x 4'0" | 0.61 x 1.27 |
| W86 | WINDOW | 2'0" x 4'0" | 0.61 x 1.27 |
| W87 | WINDOW | 2'0" x 4'0" | 0.61 x 1.27 |
| W88 | WINDOW | 2'0" x 4'0" | 0.61 x 1.27 |
| W89 | WINDOW | 2'0" x 4'0" | 0.61 x 1.27 |
| W90 | WINDOW | 2'0" x 4'0" | 0.61 x 1.27 |
| W91 | WINDOW | 2'0" x 4'0" | 0.61 x 1.27 |
| W92 | WINDOW | 2'0" x 4'0" | 0.61 x 1.27 |
| W93 | WINDOW | 2'0" x 4'0" | 0.61 x 1.27 |
| W94 | WINDOW | 2'0" x 4'0" | 0.61 x 1.27 |
| W95 | WINDOW | 2'0" x 4'0" | 0.61 x 1.27 |
| W96 | WINDOW | 2'0" x 4'0" | 0.61 x 1.27 |
| W97 | WINDOW | 2'0" x 4'0" | 0.61 x 1.27 |
| W98 | WINDOW | 2'0" x 4'0" | 0.61 x 1.27 |
| W99 | WINDOW | 2'0" x 4'0" | 0.61 x 1.27 |
| W100 | WINDOW | 2'0" x 4'0" | 0.61 x 1.27 |

AREA DETAIL

PLOT AREA AS PER DATA 12,379 SQ.FT (OR) 1,140.00 M²
 AS PER RECORDS 12,379 SQ.FT (OR) 1,140.00 M²
 AS ON SITE 12,379 SQ.FT (OR) 1,140.00 M²
 PRO. COV. AREA: 3745 SQ.FT (OR) 34.8 BMR
 F.F. AREA: 4702 SQ.FT (OR) 43.6 BMR
 G.F. AREA: 4702 SQ.FT (OR) 43.6 BMR
 T.F. AREA: 4767 SQ.FT (OR) 44.2 BMR
 TOTAL AREA: 17,916 SQ.FT (OR) 1,664.4 M²
 COVERAGE: 38.5%
 P.S. 1: 1.44

COLOUR INDEX

RED AS SHOWN
 ROAD AS SHOWN
 SITE BOUNDARY AS SHOWN

CMDA (B) No. 1
 C No. B/2, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100

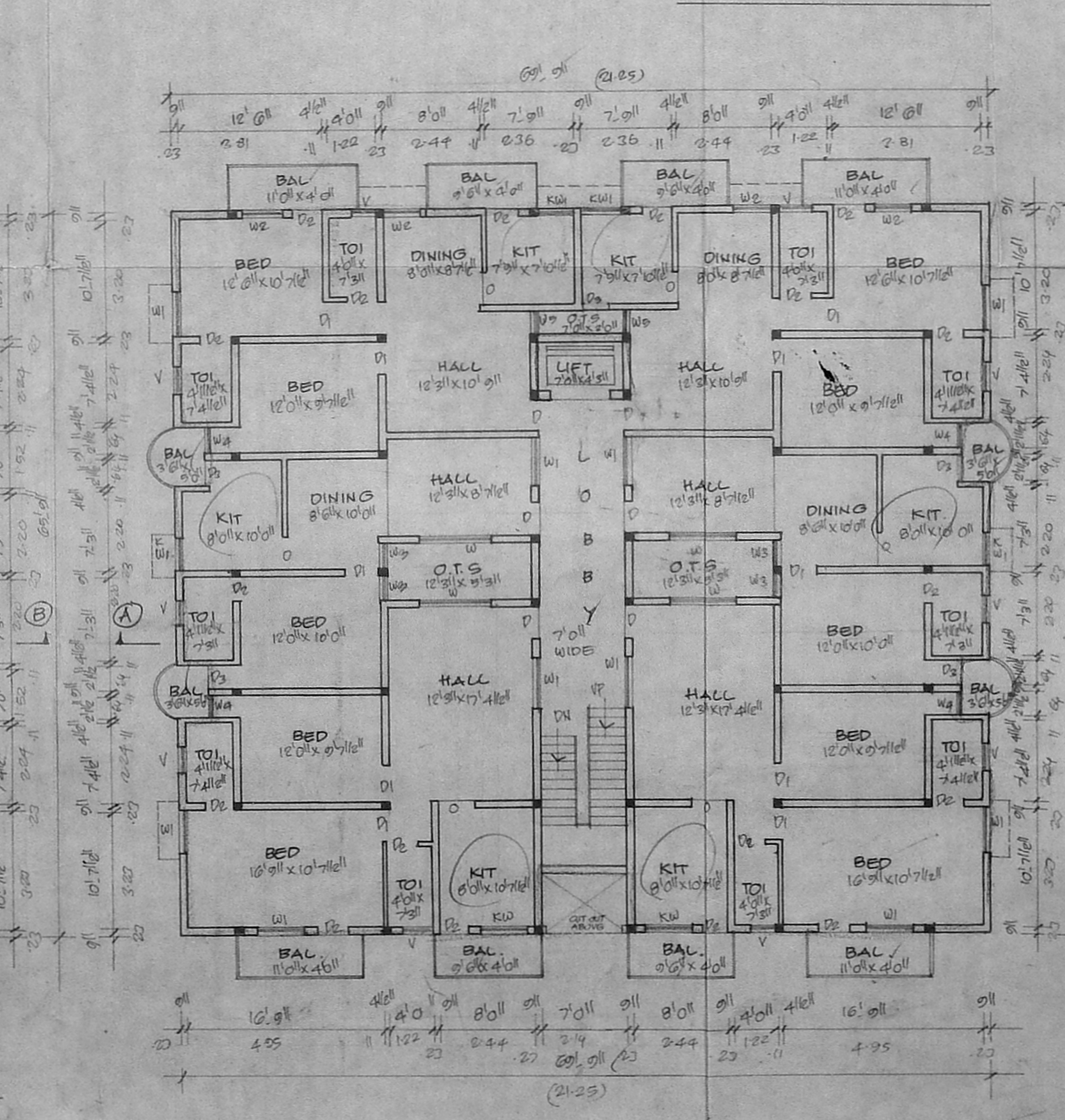
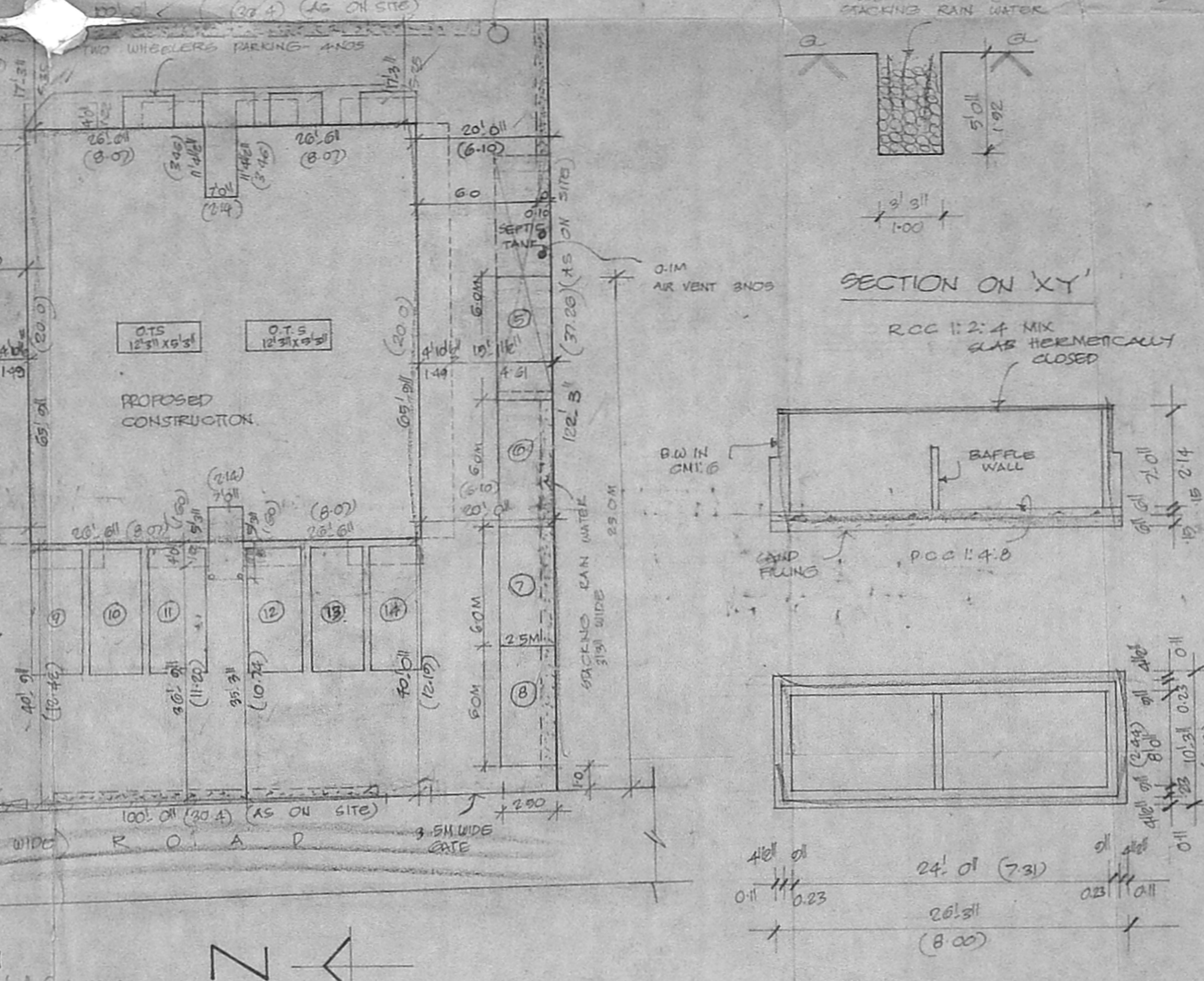
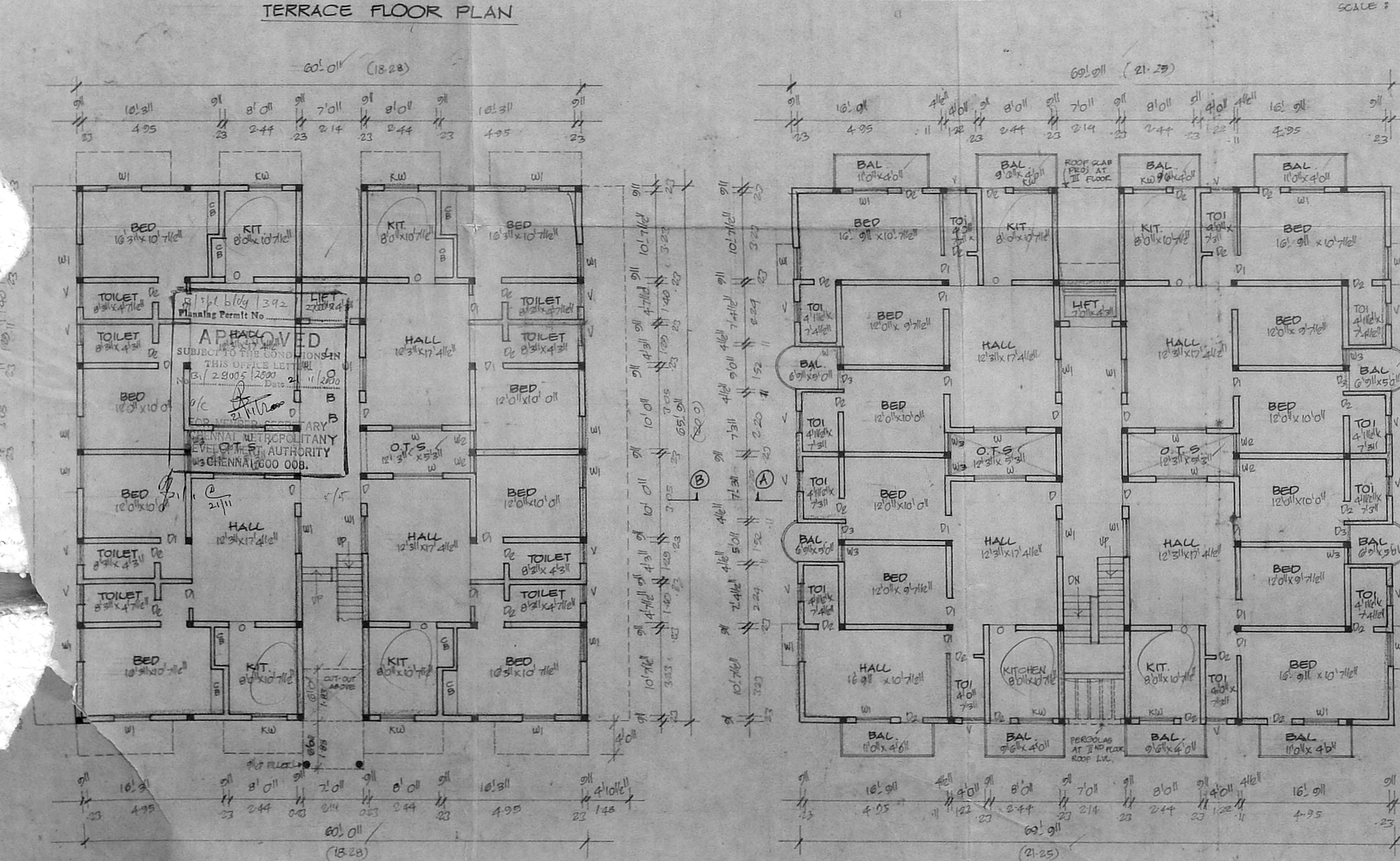
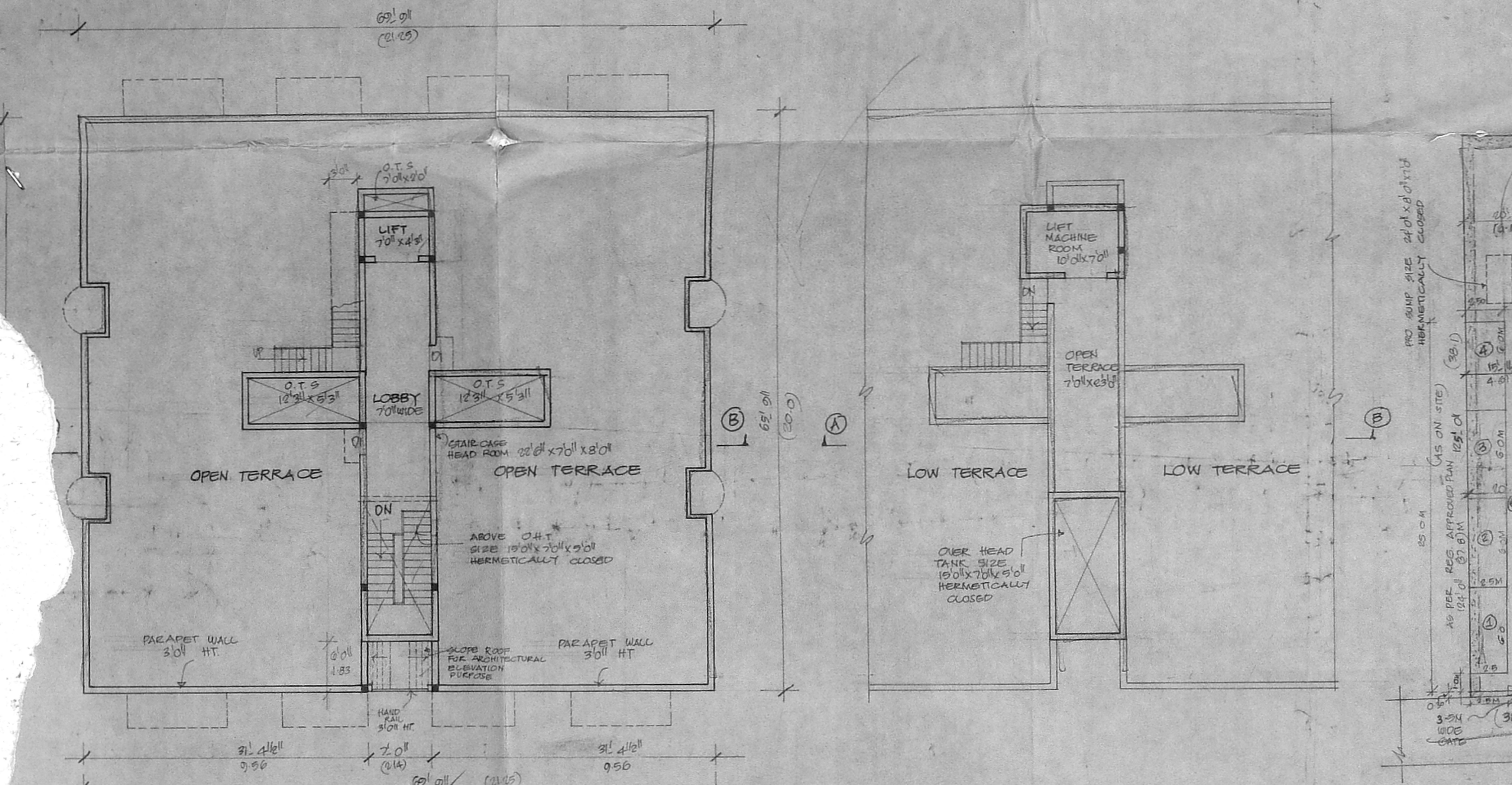
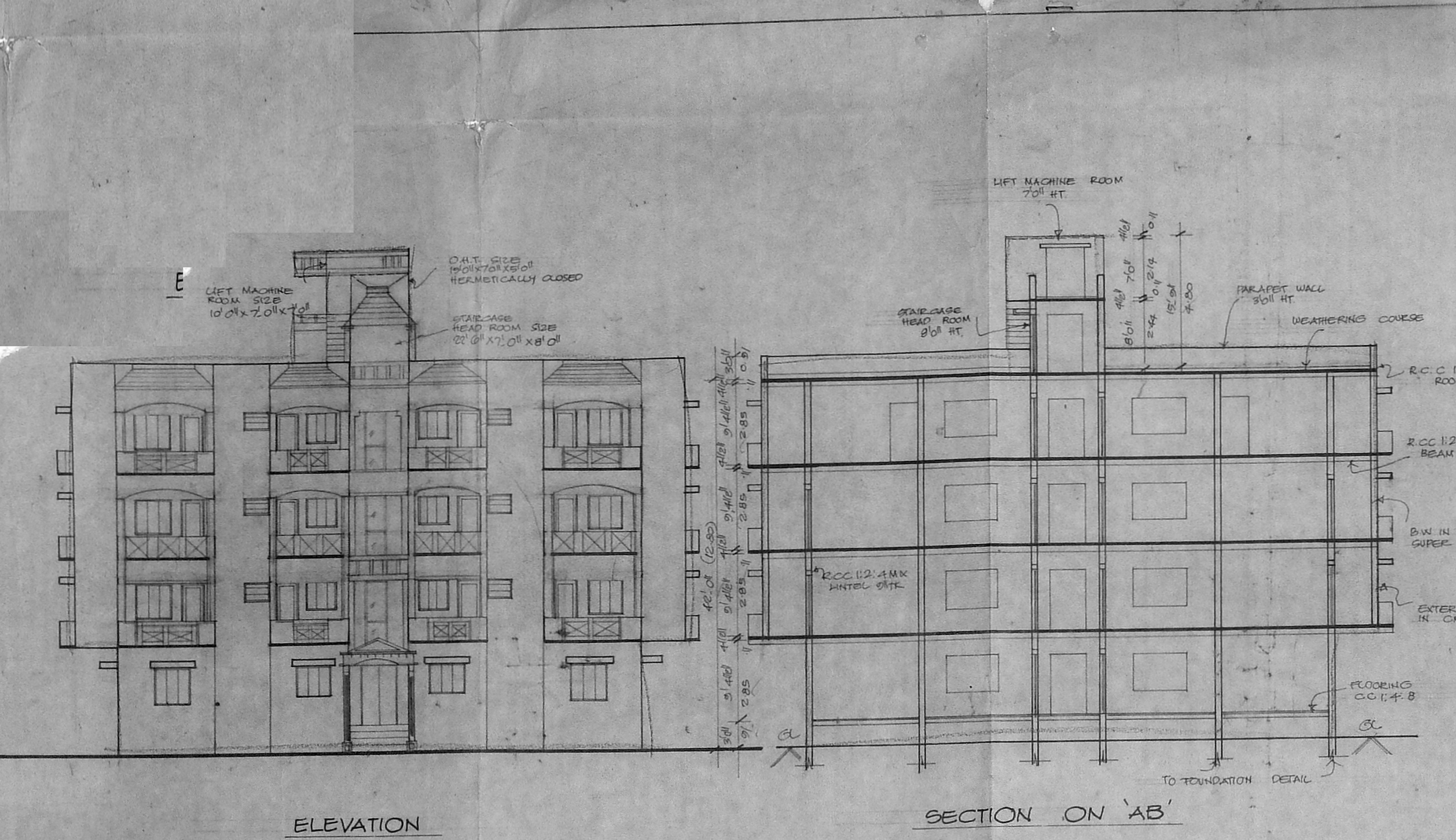
OWNER

[Signature]

CONSULTANT

K. SELVAMURUGAN
 Consulting Civil Engineer, Chartered Engineer
 Approved Valuer & Licensed Surveyor,
 Class-I Reg. No. 12,000,000000
 Corporation of Chennai
 No. 118, Meppan Road,
 CHENNAI-600 008,
 P. 660104

REGISTERED SURVEYOR



ELEVATION **SECTION ON 'AB'** **FOUNDATION DETAIL** **KEYPLAN (NOT TO SCALE)** **SECTION ON 'AB'** **PLAN UPFLOW FILTER DETAILS** **SCALE: 1:100** **TERRACE FLOOR PLAN** **LIFT MACHINE ROOM PLAN** **SITE PLAN SCALE: 1:100** **DETAIL OF SUMP** **GROUND FLOOR PLAN** **FIRST AND SECOND FLOOR PLAN** **THIRD FLOOR PLAN**