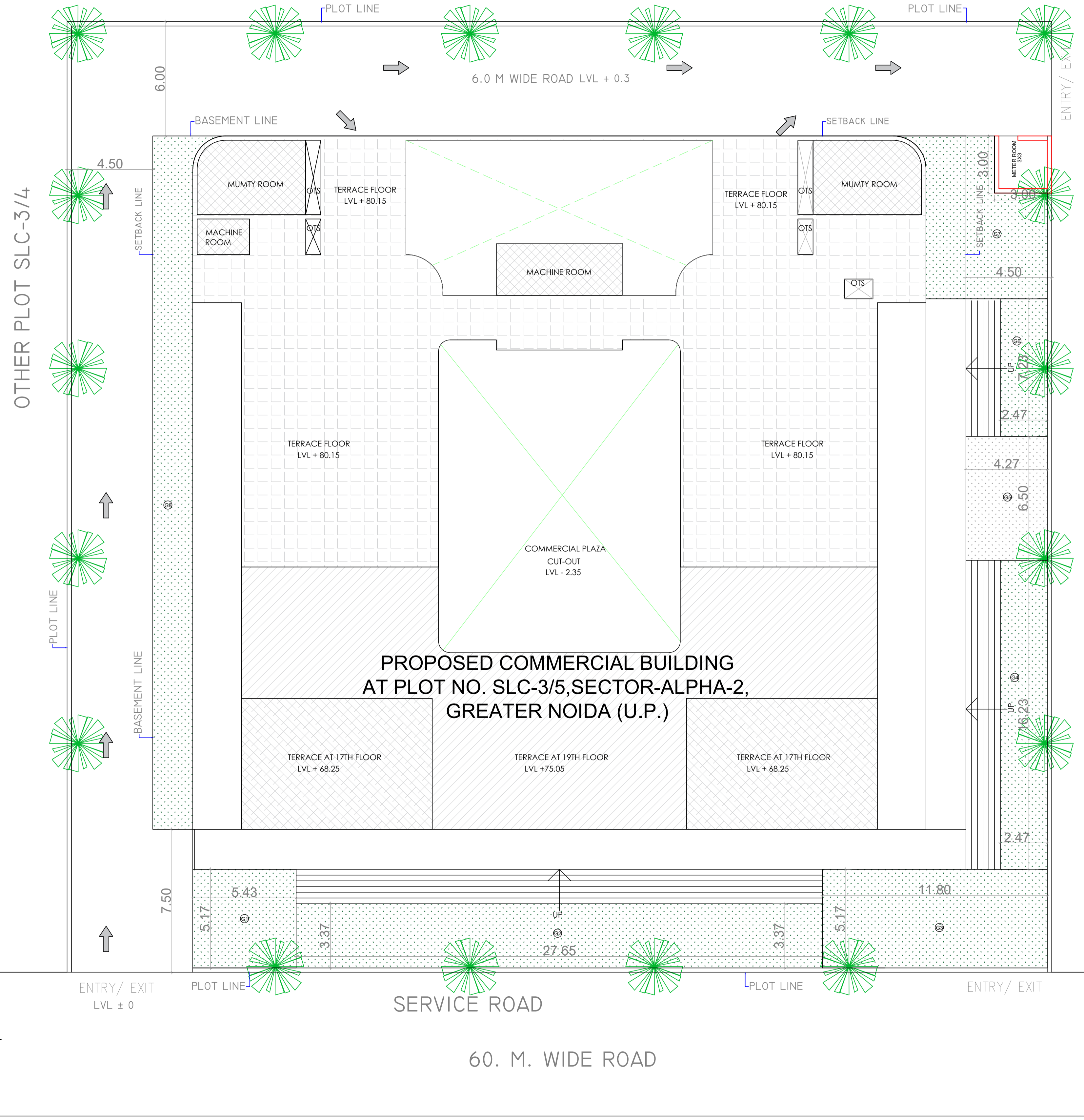


9.0M WIDE ROAD



**GREEN AREA CALCULATIONS:-**

1. REQUIRED GREEN : =25% OF OPEN AREA =25% OF PLOT AREA-GR. COVERAGE =25% OF (2580-1031.932)	386.974
2. PROPOSED GREEN :	420.612
3. REQUIRED NO. OF TREES =1 TREE PER 100 SQM. OF OPEN AREA =(PLOT AREA-GR. COVERAGE)/100	15
4. NO. OF TREES PROPOSED :	19

**GREEN AREA DETAIL**

S.No.	DESCRIPTION	AREA (IN SQM.)	No.'s	AREA (IN SQM.)
G1	AS PER PLINE	28.047	X 1	28.047
G2	AS PER PLINE	93.180	X 1	93.18
G3	AS PER PLINE	60.980	X 1	60.98
G4	AS PER PLINE	40.075	X 1	40.075
G5	AS PER PLINE	27.755	X 1	27.755
G6	AS PER PLINE	17.598	X 1	17.598
G7	AS PER PLINE	47.432	X 1	47.432
G8	AS PER PLINE	106.578	X 1	106.578
<b>TOTAL GREEN AREA</b>				<b>421.645</b>

**NAMES OF PROPOSED TREES IN LANDSCAPE PLAN**

COMMON NAME	BOTANICAL NAME
GULMOHAR	DELONIX REGIA
AMALTAS	CASSIA FISTULA
JACARANDA	JACARANDA MIMOSAE FOLIA
SILVER OAK	GREVILLEA ROBUSTA
ASHOKA	POLYLETHEA LONGIFOLIA

**NOTE:-**  
 SHRUBS:- NO DENOTED AS SHOWN  
 (1) DIFFERENT TYPES OF SHRUBS ARE- CAESALDANIA PULCHERRIMA, LAGERSTROMIA FLOSREGINAE, EUPHORBIA PULCHERRIMA  
 (2) DIFFERENT VARIETIES OF BOUGAINVILLEA SHALL BE PLANTED ALL ALONG THE BOUNDARY WALL.

SIGNING AUTHORITY

ARCHITECTS SIGN

SUBMISSION DRAWING

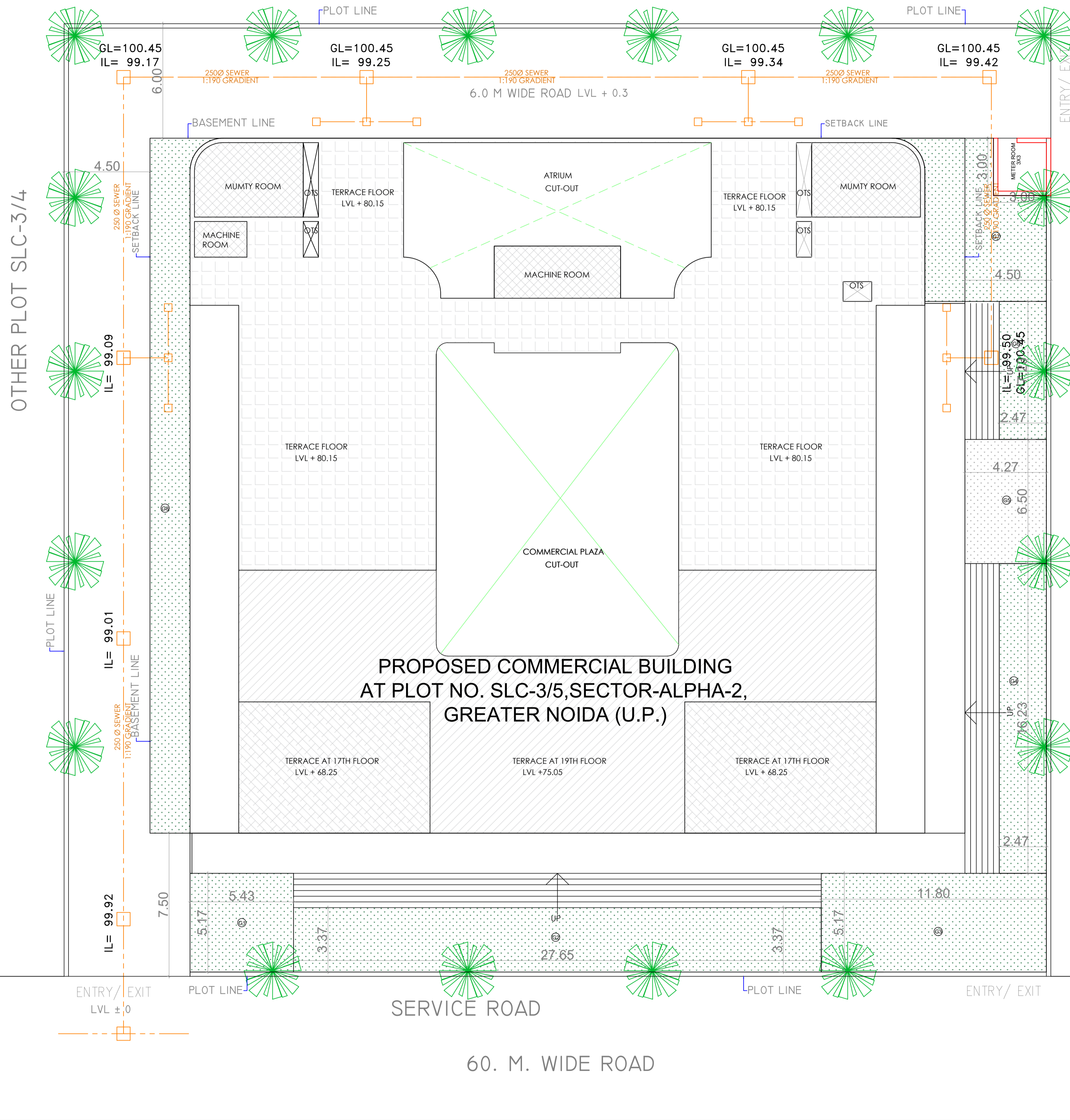
PROJECT:-  
**PROPOSED COMMERCIAL FOR M/s. VINAYAKA EXPO PVT. LTD. AT PLOT No. SLC-3/5 SECTOR-ALPHA-2 G.NOIDA. (U.P.)**

DRG. TITLE:- LANDSCAPE PLAN

SCALE:-1:100      DRG. NO.:RW-01  
 DLT.BY:-      DATE:-23/01/2025

ARCHITECTS:-  
 P. N. ANDLEY    B.ARCH. A.I.I.A.  
**ANDLEYS ASSOCIATES PVT. LTD.**  
 ARCHITECTS    ENGINEERS    PLANNERS  
 39 HOUSING SOCIETY    N.D.S.E-I    NEW DELHI - 110049

9.0M WIDE ROAD



**PROPOSED COMMERCIAL BUILDING  
AT PLOT NO. SLC-3/5, SECTOR-ALPHA-2,  
GREATER NOIDA (U.P.)**

**AREA CALCULATIONS:-**

TOTAL POPULATION = TOTAL F.A.R./10  
= (10318.612)/10  
= 1031.861  
= 1032 PERSON

**NOTE:-**

250 Ø SEWER LINE 1:190 -----  
150 Ø SEWER LINE 1:100 -----  
100 Ø SEWER LINE 1:150 -----

**SEWAGE:-**

TOTAL POPULATION = 1032  
AVG. DISCHARGE @ 45 LIT/HEAD/DAY  
= 1032 X 45 = 46,440 LIT.

PEAK DISCHARGE = 3 X 46,440 = 1,39,320 LIT.

SUBSOIL FILTRATION = 45 X 1032 = 46,440 LIT.

TOTAL = 1,85,760 LIT.

= 1.857 x 10<sup>-3</sup> m /sec.

**CAPACITY OF 250 MM Ø SEWER :-**

$$S = 1:190, m = \frac{2\sqrt{d}}{8} = \frac{d}{4} = 0.25 \text{ m}, n = 0.015$$

$$v = \frac{1}{n} \times m^{2/3} \times 5^{1/2} = \frac{1}{0.015} \times (0.0625)^{2/3} \times \frac{1}{190}^{1/2}$$

$$= 0.76 \text{ m/sec}$$

$$c = \frac{av}{8} = \frac{\sqrt{d}}{8} \times 0.76 = \frac{\sqrt{0.25}}{8} \times 0.76$$

$$= 0.0186 \text{ cu.m/sec.} > 0.00474 \text{ cu.m/sec.}$$

250 mm Ø SEWER PIPE IS O.K.

AREA DETAIL OF SLC-3/5 SECTOR-ALPHA-II							
S.No.	DESCRIPTION	FAR AREA (IN SQ.M.)	COMMERCIAL FAR AREA (IN SQ.M.)	HOTEL FAR AREA (IN SQ.M.)	FACILITY AREA (IN SQ.M.)	NON FAR AREA (IN SQ.M.)	TOTAL B.U.A (IN SQ.M.)
2	BASEMENT					1554.28	1554.280
3	LOWER GROUND FLOOR	740.735	740.735		227.431	0.000	968.166
4	UPPER GROUND FLOOR	916.883	916.883		61.848		978.731
5	1ST FLOOR	851.228	851.228		116.938		968.166
6	2ND FLOOR	851.228	851.228		116.938		968.166
7	3RD FLOOR	913.190	913.190		116.938		1030.128
8	4TH FLOOR	913.190	913.190		116.938		1030.128
9	5TH FLOOR	913.190	913.190		116.938		1030.128
10	6TH FLOOR					1030.128	1030.128
11	7TH FLOOR					1030.128	1030.128
12	8TH FLOOR					1030.128	1030.128
14	9TH FLOOR					1030.128	1030.128
15	10TH FLOOR					1030.128	1030.128
16	11TH FLOOR	905.659	905.659		102.688		1008.347
17	12TH FLOOR					1008.347	1008.347
18	14TH FLOOR	751.898		751.898	85.014		836.912
19	15TH FLOOR	751.898		751.898	85.014		836.912
20	16TH FLOOR	751.898		751.898	85.014		836.912
21	17TH FLOOR	608.904		608.904	85.014		693.918
22	18TH FLOOR					693.918	693.918
23	19TH FLOOR	374.604	374.604		78.595		453.199
24	TERRACE FLOOR					72.518	72.518
25	METER ROOM	9.000	9.000				9.000
26	TOTAL	10253.504	7388.907	2864.597	1467.826	8407.185	20128.515

SIGNING AUTHORITY

ARCHITECT'S SIGN

SUBMISSION DRAWING

PROJECT:-  
**PROPOSED COMMERCIAL FOR  
M/s. VINAYAKA EXPO PVT. LTD.  
AT PLOT No. SLC-3/5  
SECTOR-ALPHA-2 G.NOIDA. (U.P.)**

DRG. TITLE:- **SERVICE PLAN  
(SHOWING SEWER LINE)**

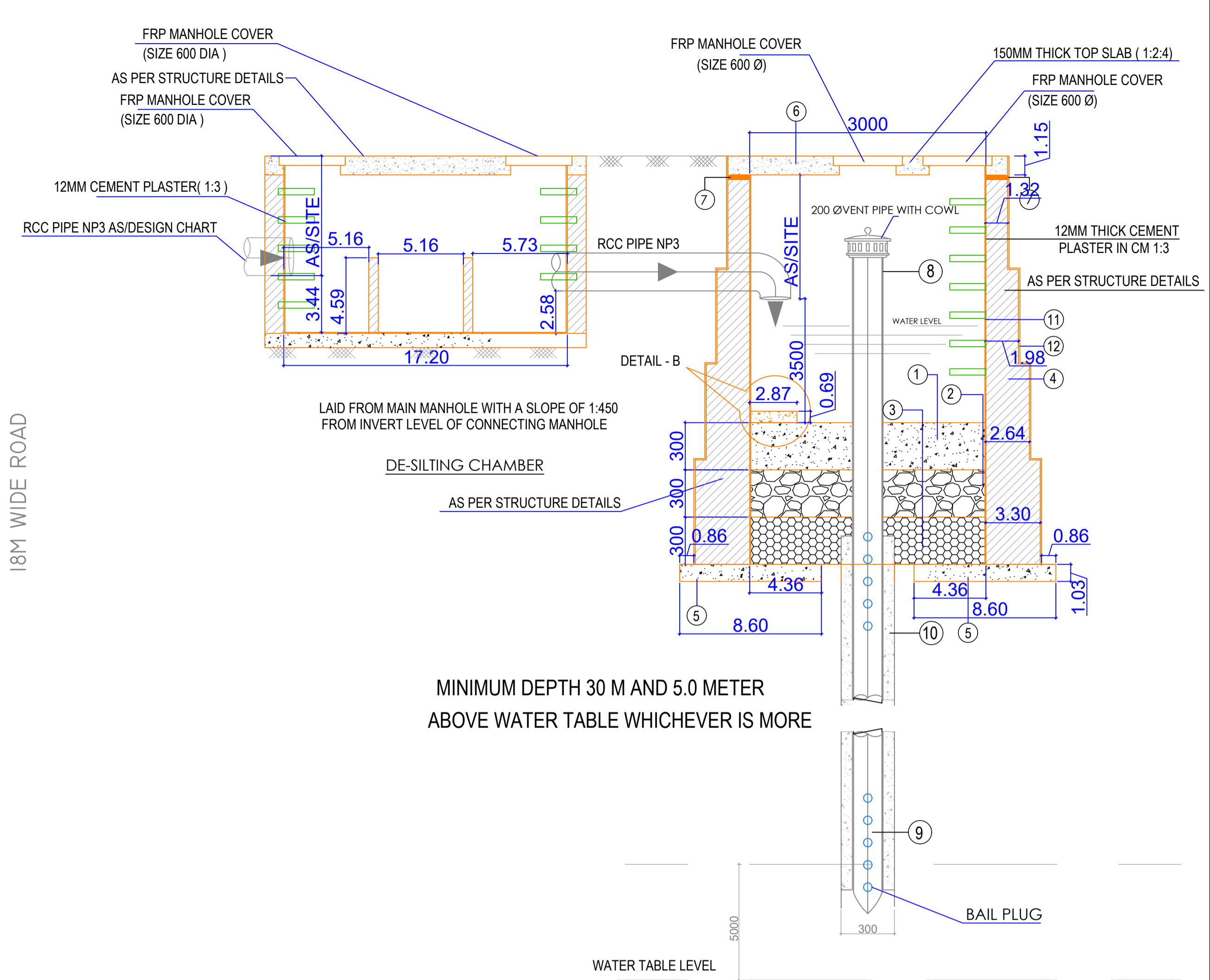
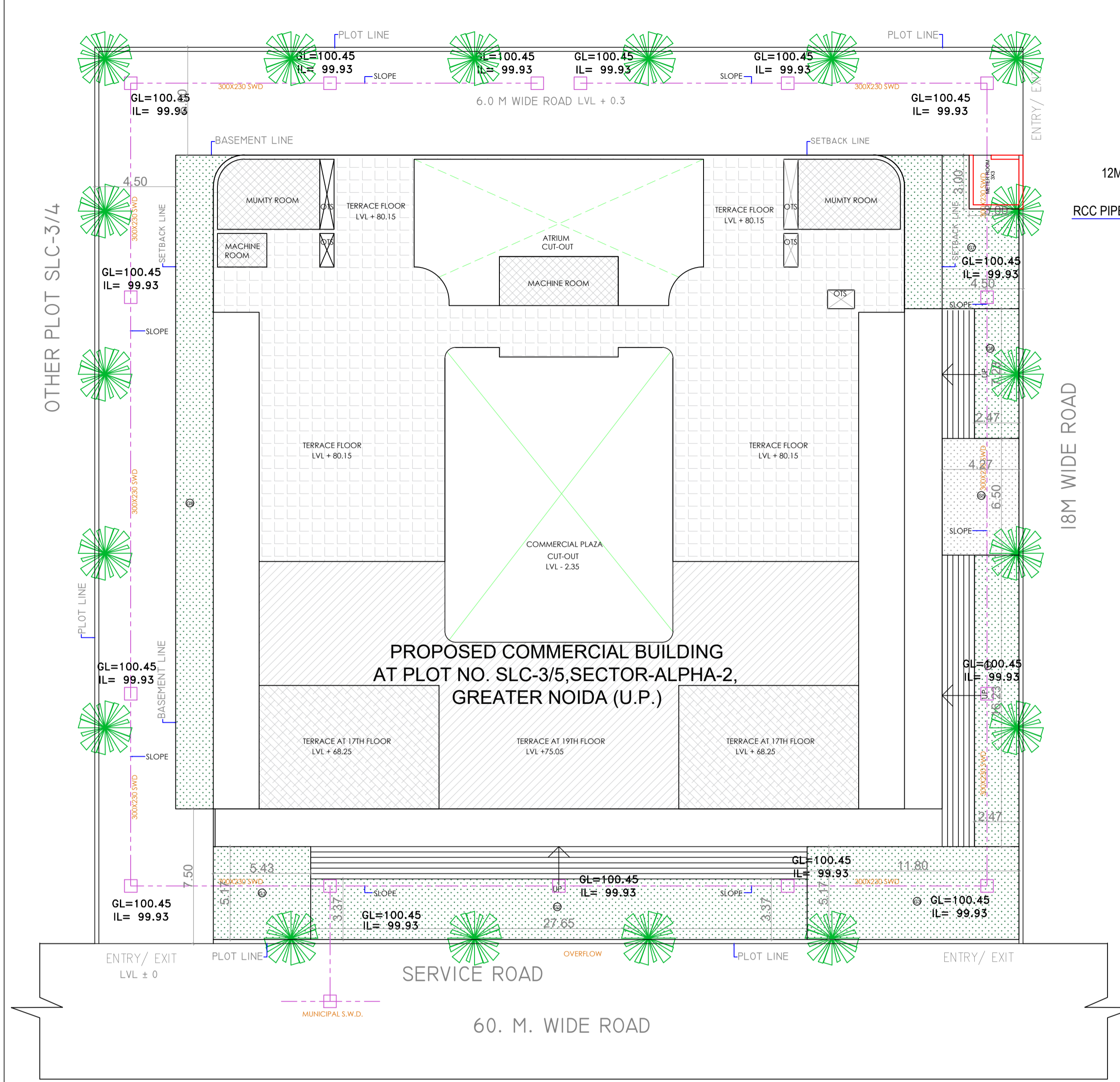
SCALE:-1:100      DRG. NO.-RW-01

DLT.BY:-      DATE:-23/01/2025

ARCHITECTS:-  
P. N. ANDLEY    B.ARCH. A.I.I.A.

**ANDLEYS ASSOCIATES PVT. LTD.**  
ARCHITECTS      ENGINEERS      PLANNERS  
39 HOUSING SOCIETY      N.D.S.E-I      NEW DELHI - 110049

9.0M WIDE ROAD



SECTION A-A

LEGEND:-

1. COARSE SAND (1.5 - 2MM SIZE)
2. GRAVELS (5 - 10MM SIZE)
3. BOULDERS (50-200MM SIZE)
4. BRICK WORK IN 1:4
5. LEAN CONCRETE (1 : 4 : 8)
6. PRECAST R.C.C. SLAB 150MM THICK
7. 40MM THICK BEARING LEVEL CONCRETE (1 : 2 : 4)
8. 200MMØ uPVC BLIND PIPE AS PER I.S.4985
9. 200MMØ uPVC. SLOTTED PIPE
10. GRAVEL PACKING (5-10MM) AROUND SLOTTED PIPE
11. 12MM THICK WATER PROOFING PLASTER IN C.M. 1 : 3
12. BITUMEN PAINTING @ 1.7KG / SQ.CM OVER 20MM THICK WATER PROOFING PLASTER IN C.M. 1 : 4

AREA CALCULATIONS:-

TOTAL PLOT AREA = 2580 SQ.M.

NOTE:-

- 300 Ø STORM WATER DRAIN (1:350 GRADIENT)
- 150Ø STORM WATER DRAIN (1:200 GRADIENT)

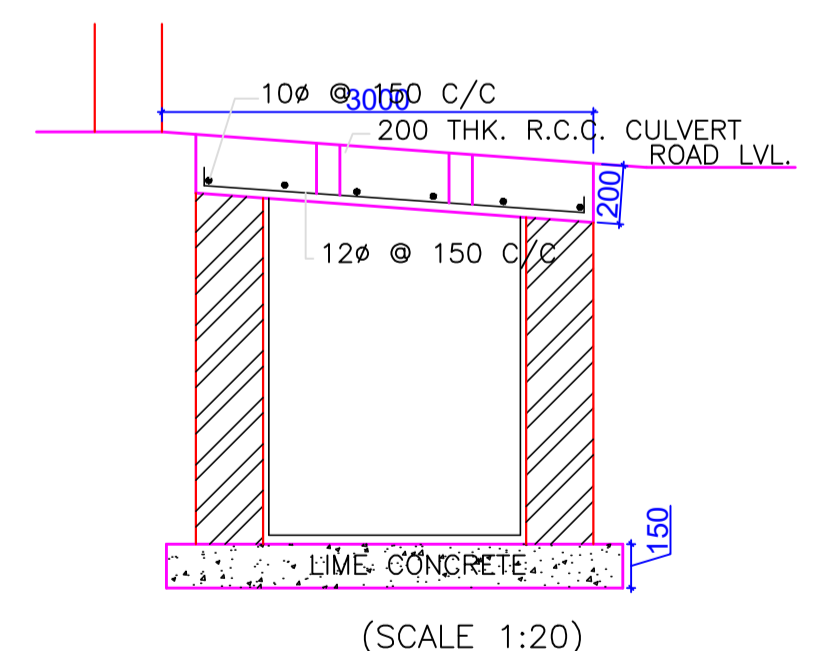
STORM WATER DRAIN:- SIZE - 0.3 x 0.23 m

$A = 0.3 \times 0.23 = 0.069 \text{ m}$   
 $P = 2 \times 0.23 + 0.3 = 0.76 \text{ m}$

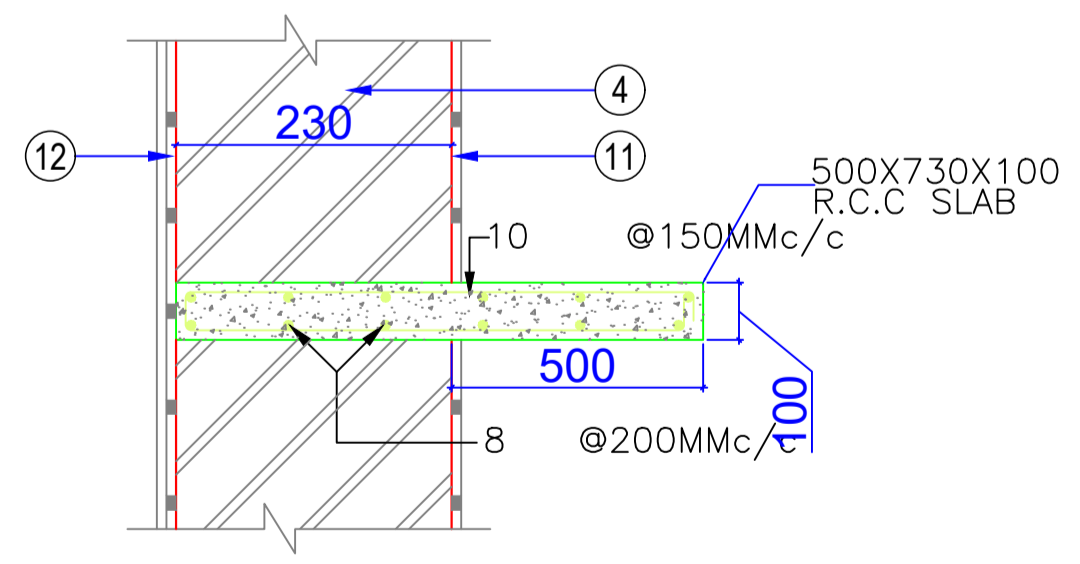
$m^2/3 = \left(\frac{A}{P}\right)^{2/3} = \left(\frac{0.069}{0.76}\right)^{2/3} = 0.202$   
 $v = 1/n \times m^{2/3} \times 5^{1/2} = \frac{1}{0.015} \times 0.202 \times \left(\frac{1}{500}\right)^{1/2} = 0.602 \text{ m/sec.}$   
 $= cv = 0.069 \times 0.602 = 0.0415 \text{ m /sec.}$   
 $= 1.47 \text{ cu/sec}$

TANK CAPACITY:-

ROOF AREA X 0.80 X 0.025=1032 X 0.80 X 0.025 CU.M.=20.64 CU.M.  
 PROPOSED RAINWATER PIT = (2.0X3.0X3.5) X 1 nos. = 21.0 CU.M.

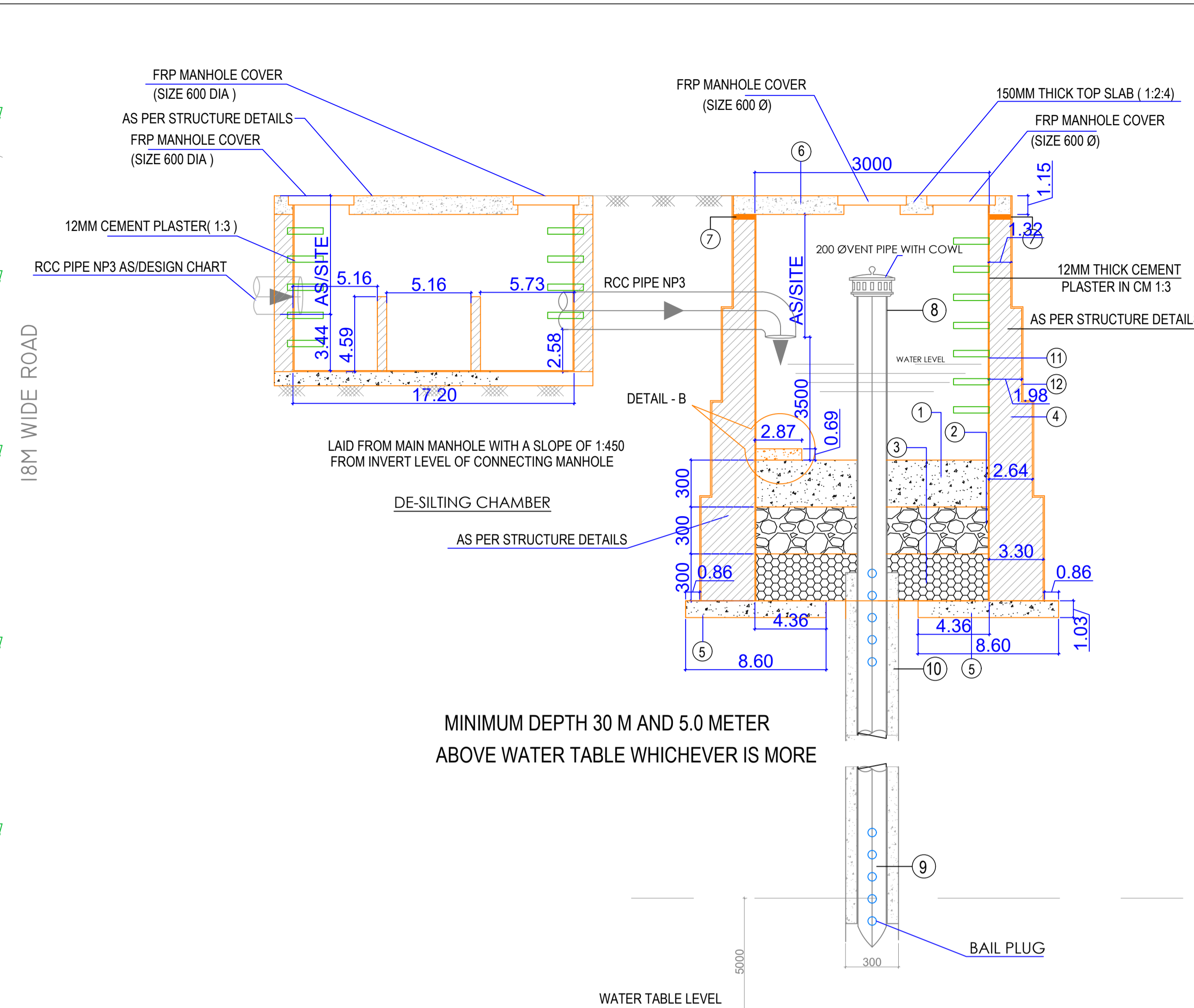
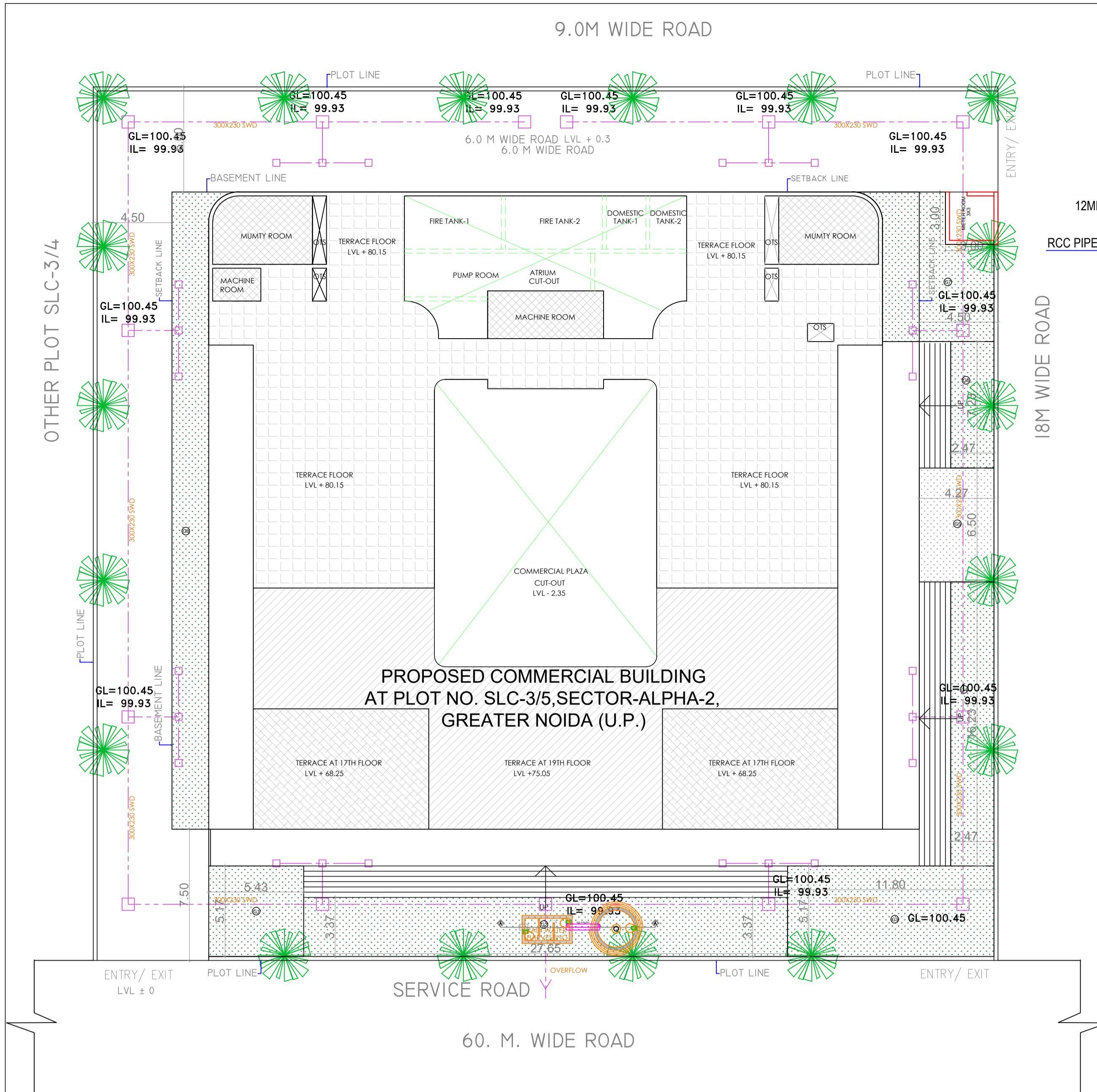


CULVERT DETAIL



DETAIL-B

SIGNING AUTHORITY	
ARCHITECT'S SIGN	
SUBMISSION DRAWING	
PROJECT:- <b>PROPOSED COMMERCIAL FOR M/s. VINAYAKA EXPO PVT. LTD. AT PLOT No. SLC-3/5 SECTOR-ALPHA-2 G.NOIDA. (U.P.)</b>	
DRG. TITLE:- <b>SERVICE PLAN (SHOWING SWD LINE)</b>	
SCALE:-1:100	DRG. NO.:RW-01
DLT.BY.:-	DATE:-23/01/2025
ARCHITECTS:- P. N. ANDLEY B.ARCH. A.I.I.A.	
<b>ANDLEYS ASSOCIATES PVT. LTD.</b>	
39 HOUSING SOCIETY	PLANNERS N.D.S.E.-1 NEW DELHI - 110049



- LEGEND:-**
1. COARSE SAND (1.5 - 2MM SIZE)
  2. GRAVELS (5 - 10MM SIZE)
  3. BOULDERS (50-200MM SIZE)
  4. BRICK WORK IN 1:4
  5. LEAN CONCRETE (1 : 4 : 8)
  6. PRECAST R.C.C. SLAB 150MM THICK
  7. 40MM THICK BEARING LEVEL CONCRETE (1 : 2 : 4)
  8. 200MMØ uPVC BLIND PIPE AS PER I.S.4985
  9. 200MMØ uPVC. SLOTTED PIPE
  10. GRAVEL PACKING (5-10MM) AROUND SLOTTED PIPE
  11. 12MM THICK WATER PROOFING PLASTER IN C.M. 1 : 3
  12. BITUMEN PAINTING @ 1.7KG / SQ.CM OVER 20MM THICK WATER PROOFING PLASTER IN C.M. 1 : 4

**AREA CALCULATIONS:-**

TOTAL PLOT AREA = 2580 SQ.M.

**NOTE:-**

- 300 Ø STORM WATER DRAIN (1:350 GRADIENT)
- 150Ø STORM WATER DRAIN (1:200 GRADIENT)

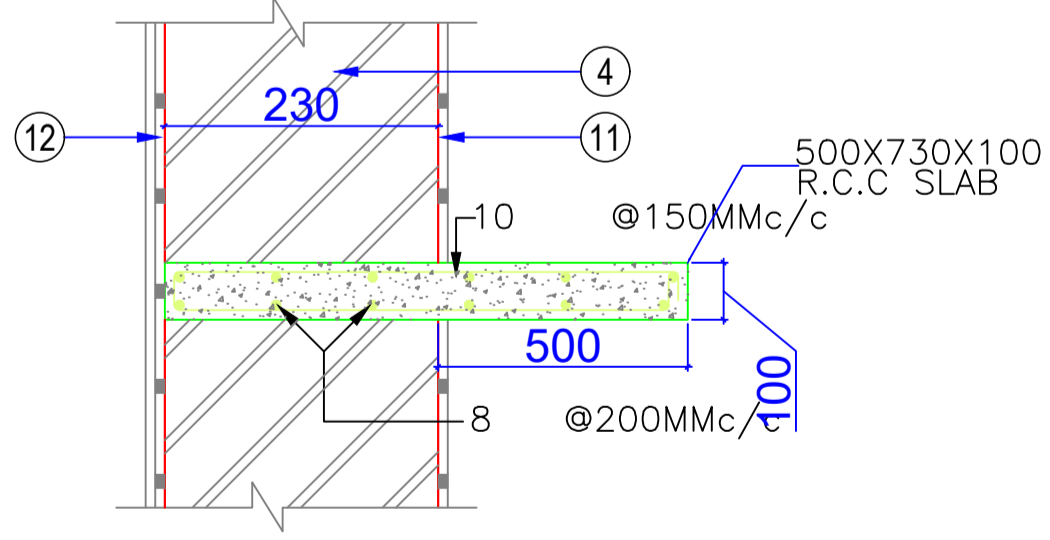
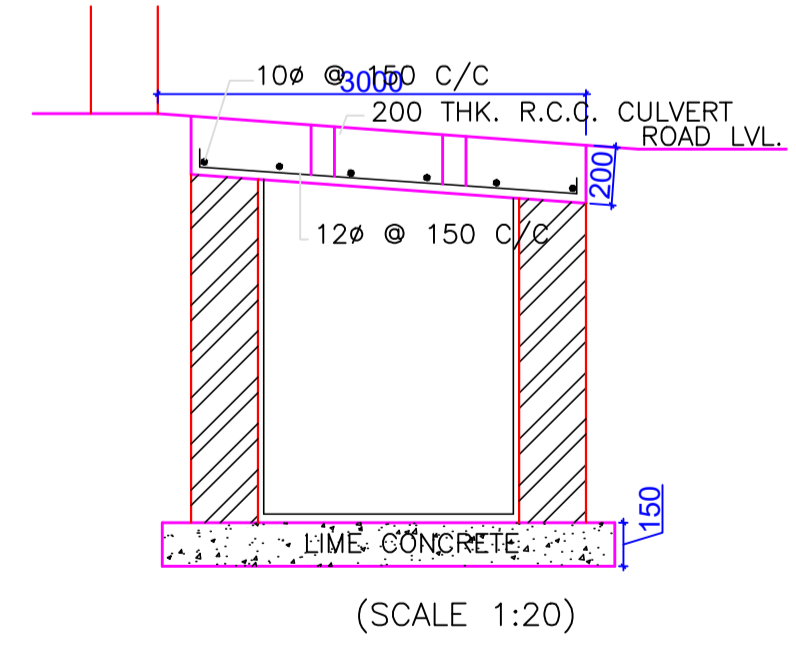
**STORM WATER DRAIN:-** SIZE - 0.3 x 0.23 m

$A = 0.3 \times 0.23 = 0.069 \text{ m}$   
 $P = 2 \times 0.23 + 0.3 = 0.76 \text{ m}$

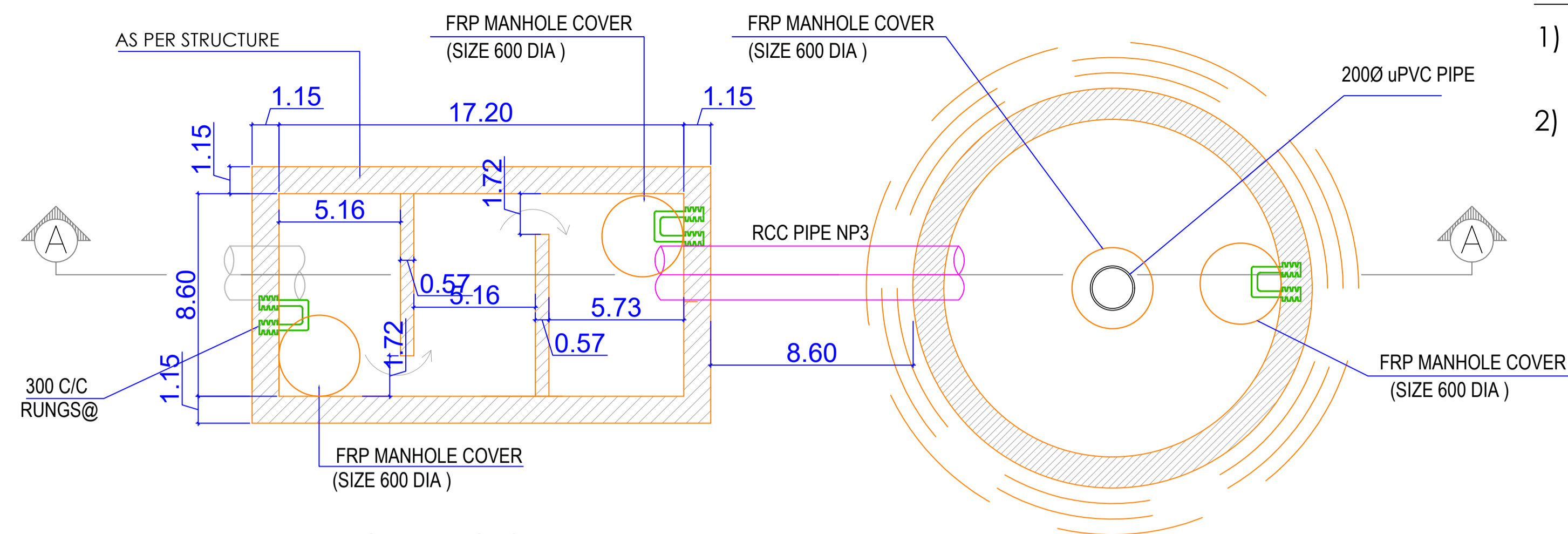
$m^{2/3} = \left(\frac{A}{P}\right)^{2/3} = \left(\frac{0.069}{0.76}\right)^{2/3} = 0.202$   
 $v = 1/n \times m^{2/3} \times 5^{1/2} = \frac{1}{0.015} \times 0.202 \times \left(\frac{1}{500}\right)^{1/2} = 0.602 \text{ m/sec.}$   
 $= av = 0.069 \times 0.602 = 0.0415 \text{ m /sec.}$   
 $= 1.47 \text{ cu/sec}$

**TANK CAPACITY:-**

ROOF AREA X 0.80 X 0.025 = 1032 X 0.80 X 0.025 CU.M. = 20.64 CU.M.  
 PROPOSED RAINWATER PIT = (2.0X3.0X3.5) X 1 nos. = **21.0 CU.M.**



SIGNING AUTHORITY	
ARCHITECTS SIGN	
SUBMISSION DRAWING	
PROJECT:-	
<b>PROPOSED COMMERCIAL FOR M/s. VINAYAKA EXPO PVT. LTD. AT PLOT No. SLC-3/5 SECTOR-ALPHA-2 G.NOIDA. (U.P.)</b>	
DRG. TITLE:- SERVICE PLAN (SHOWING RAINWATER HARVESTING)	
SCALE:-1:100	DRG. NO.:RW-01
DLT.BY:-	DATE:-23/01/2025
ARCHITECTS:- P. N. ANDLEY B.ARCH. A.I.I.A.	
<b>ANDLEYS ASSOCIATES PVT. LTD.</b>	
ARCHITECTS	ENGINEERS
39 HOUSING SOCIETY	N.D.S.E.-I NEW DELHI - 110049



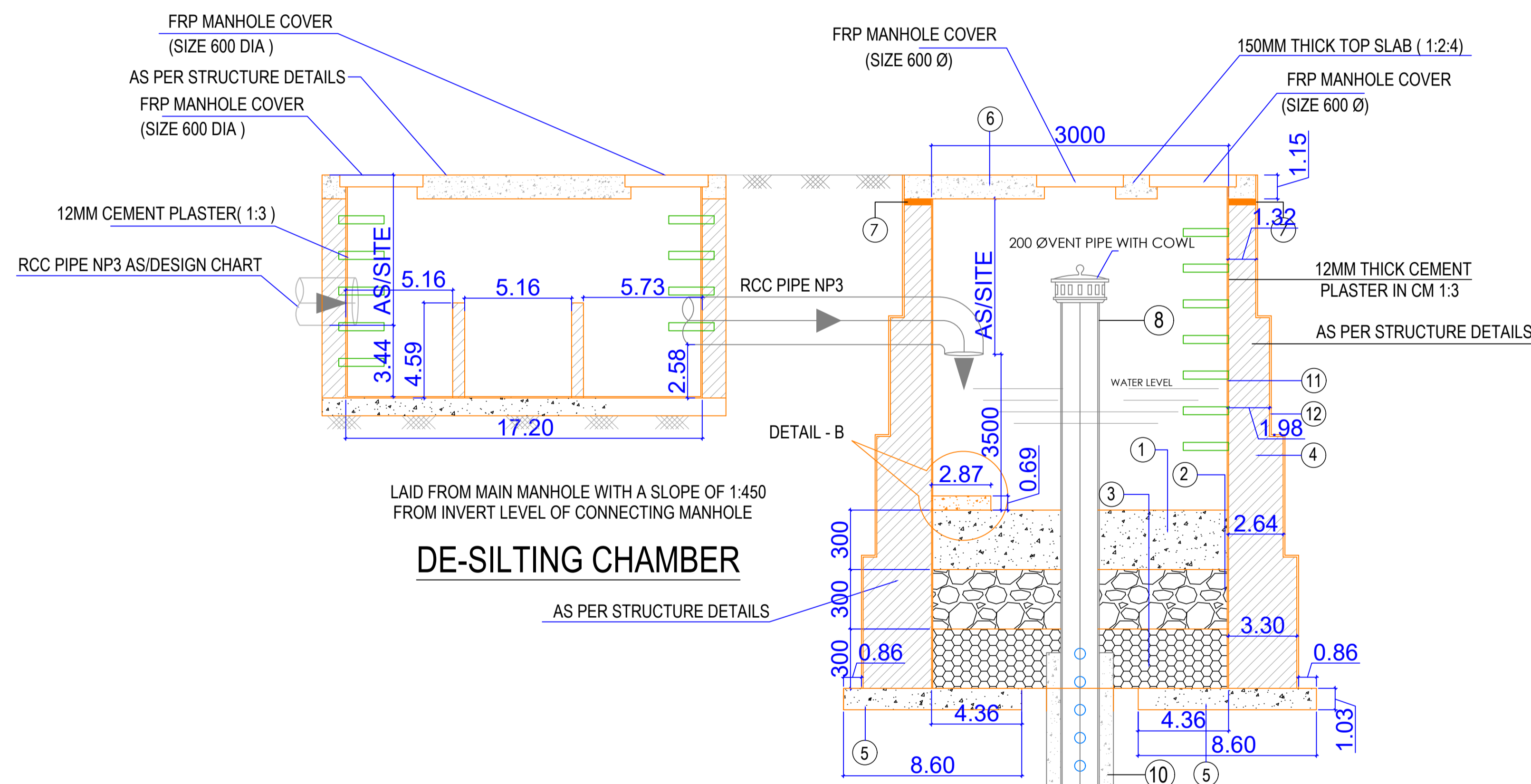
**DE-SILTING CHAMBER**  
 SIZE:- 3.0M x 1.5M x 1.0M CLEAR DEPTH

**RECHARGE WELL**  
 SIZE:- 3.0M Ø

**PLAN OF DE - SELTING CHAMBER & RECHARGE WELL**

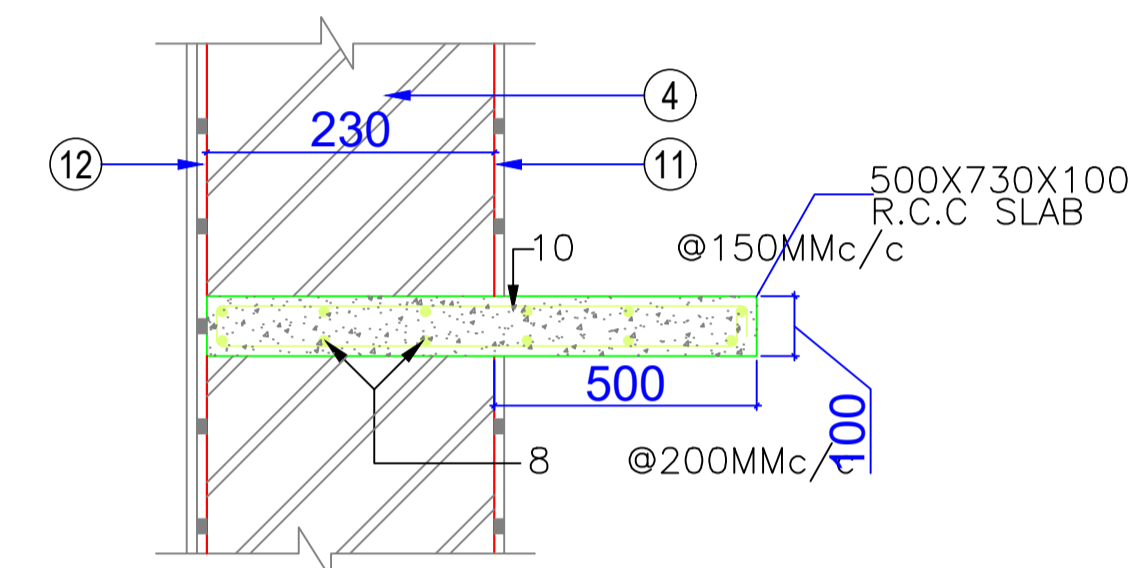
**NOTE:-**

- 1) THE DESILTING CHAMBER AND RECHARGE WELL SHALL BE CONSTRUCTED AS PER THE STRUCTURE DRAWINGS.
- 2) THIS IS A GENERAL ARRANGEMENT DRAWING FOR PREPARATION OF STRUCTURAL DETAILING.



**DE-SILTING CHAMBER**

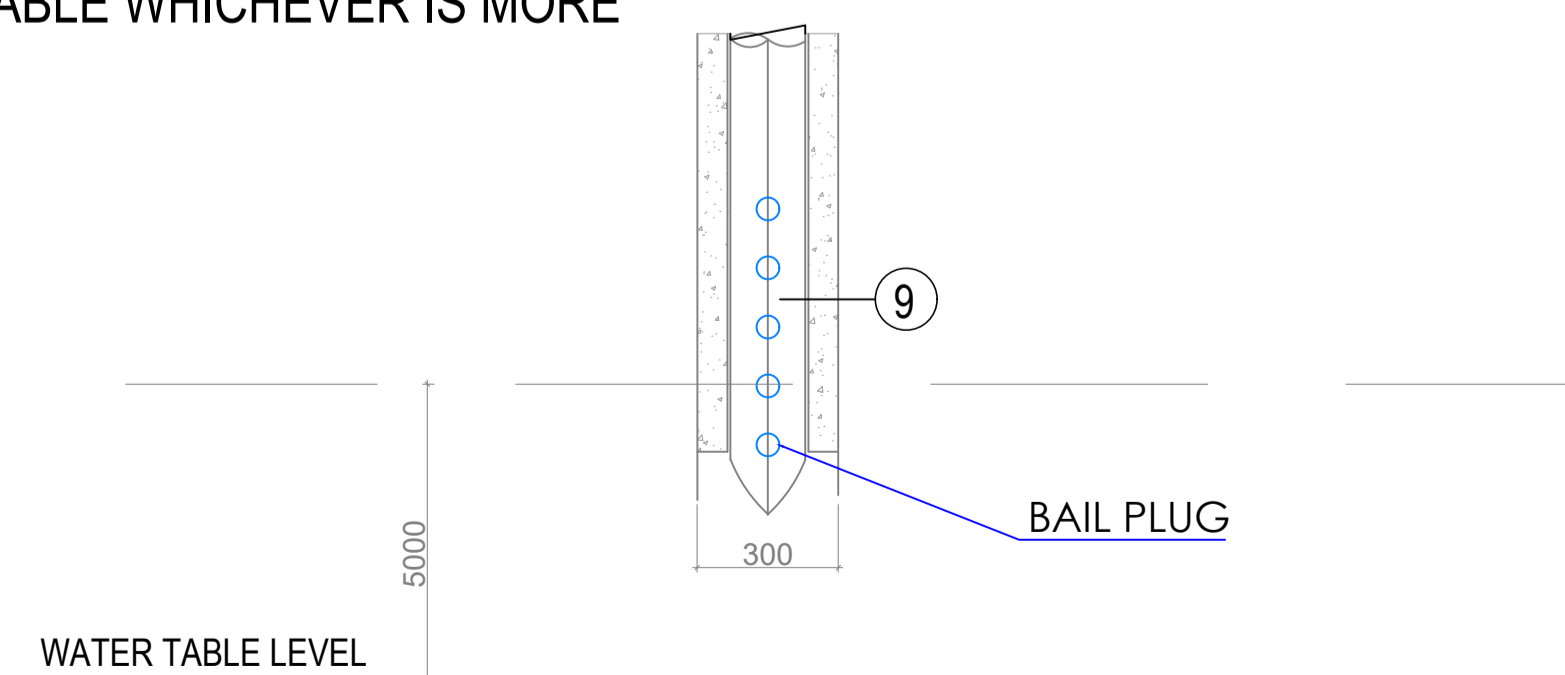
MINIMUM DEPTH 30 M AND 5.0 METER  
 ABOVE WATER TABLE WHICHEVER IS MORE



**DETAIL-B**

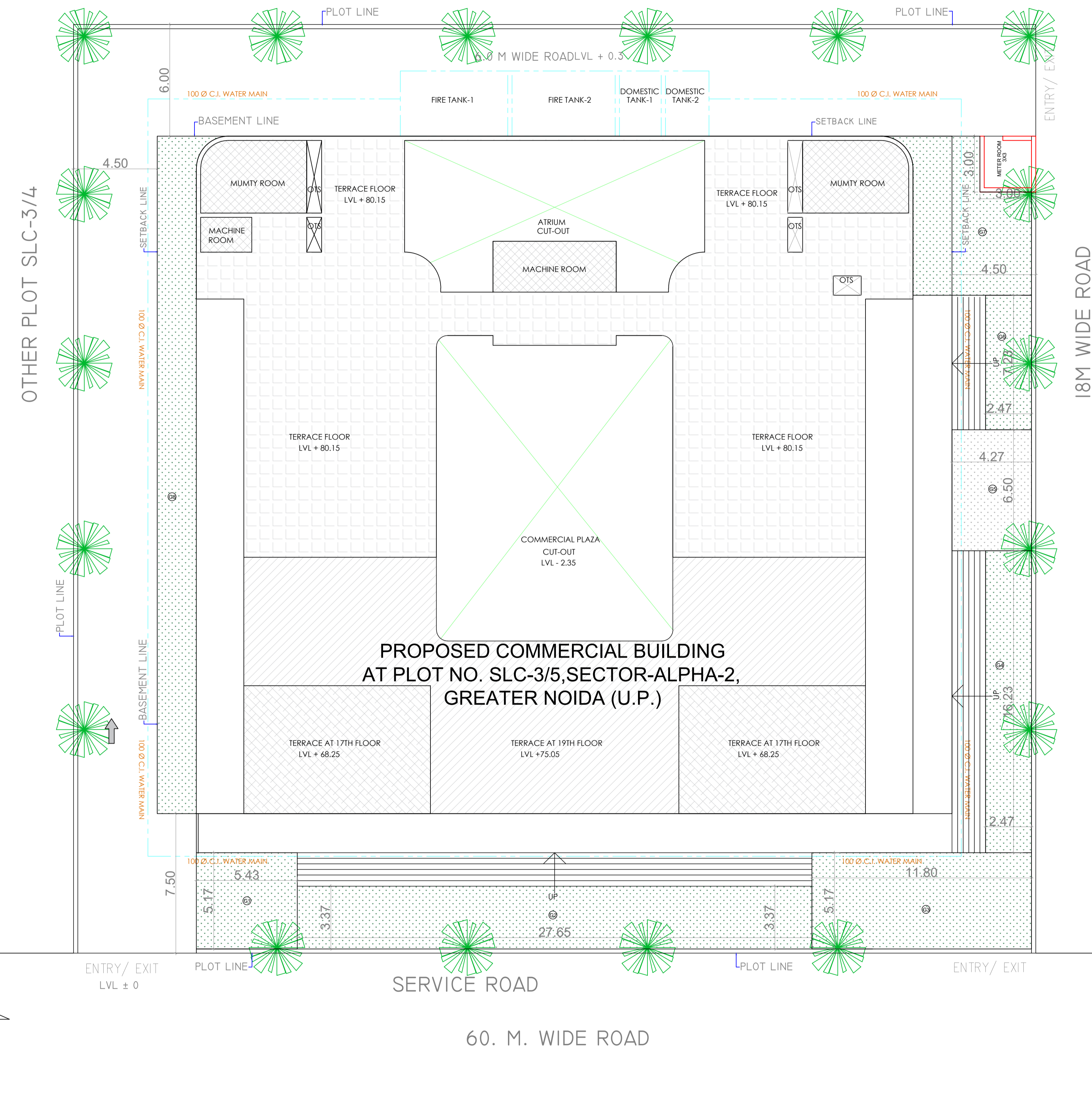
**LEGEND:-**

1. COARSE SAND (1.5 - 2MM SIZE)
2. GRAVELS (5 - 10MM SIZE)
3. BOULDERS (50-200MM SIZE)
4. BRICK WORK IN 1:4
5. LEAN CONCRETE (1 : 4 : 8)
6. PRECAST R.C.C. SLAB 150MM THICK
7. 40MM THICK BEARING LEVEL CONCRETE (1 : 2 : 4)
8. 200MMØ uPVC BLIND PIPE AS PER I.S.4985
9. 200MMØ uPVC. SLOTTED PIPE
10. GRAVEL PACKING (5-10MM) AROUND SLOTTED PIPE
11. 12MM THICK WATER PROOFING PLASTER IN C.M. 1 : 3
12. BITUMEN PAINTING @ 1.7KG / SQ.CM OVER 20MM THICK WATER PROOFING PLASTER IN C.M. 1 : 4



**SECTION A-A**

9.0M WIDE ROAD



**AREA CALCULATIONS :-**

TOTAL POPULATION = TOTAL F.A.R./10  
 = (10318.612)/10  
 = 1031.861  
 = 1032 PERSON

**WATER DEMAND :-**

AVERAGE WATER DEMAND @45 LIT/HEAD/DAY  
 = 1032 X 45 = **46,440 LIT.**

**NOTE :-**

100 Ø C.I. LINE -----  
 40 Ø G.I. DELIVERY LINE -----

SIGNING AUTHORITY

ARCHITECT'S SIGN

SUBMISSION DRAWING

PROJECT:-  
**PROPOSED COMMERCIAL FOR  
 M/s. VINAYAKA EXPO PVT. LTD.  
 AT PLOT No. SLC-3/5  
 SECTOR-ALPHA-2 G.NOIDA. (U.P.)**

DRG. TITLE:- **SERVICE PLAN  
 (SHOWING WATER SUPPLY)**

SCALE:- 1:100 DRG. NO.: RW-01  
 DLT. BY:- DATE:- 23/01/2025

ARCHITECTS:-  
 P. N. ANDLEY B.ARCH. A.I.I.A.  
**ANDLEYS ASSOCIATES PVT. LTD.**  
 ARCHITECTS ENGINEERS PLANNERS  
 39 HOUSING SOCIETY N.D.S.E.-I NEW DELHI - 110049

9.0M WIDE ROAD

6.0 M WIDE ROAD LVL + 0.3

18M WIDE ROAD

**PROPOSED COMMERCIAL BUILDING  
AT PLOT NO. SLC-3/5, SECTOR-ALPHA-2,  
GREATER NOIDA (U.P.)**

**LOAD SELECTION FOR TRANSFORMER AND DG FOR SLC-3/5 SECTOR-ALPHA-II**

S. No.	DESCRIPTION	AREA / UNIT (IN SQM.)	CONNECT ED LOAD (KW) /FLAT	TOTAL CONNECTE D LOAD (KW)	
1	1ST BASEMENT	1554.280	15.543	15.54 KW	SERVICE
2	LOWER GROUND FLOOR	968.166	145.225	145.22 KW	RETAIL
3	UPPER GROUND FLOOR	978.731	146.810	146.81 KW	RETAIL
4	1ST FLOOR	968.166	145.225	145.22 KW	RETAIL
5	2ND FLOOR	968.166	145.225	145.22 KW	RETAIL
6	3rd FLOOR	1030.128	154.519	154.52 KW	OFFICE
7	4th FLOOR	1030.128	154.519	154.52 KW	OFFICE
8	5th FLOOR	1030.128	154.519	154.52 KW	OFFICE
9	6th FLOOR	1030.128	10.301	10.30 KW	SERVICE
10	7th FLOOR	1030.128	10.301	10.30 KW	PARKING
11	8th FLOOR	1030.128	10.301	10.30 KW	PARKING
12	9th FLOOR	1030.128	10.301	10.30 KW	PARKING
13	10th FLOOR	1030.128	10.301	10.30 KW	PARKING
14	11th FLOOR	1008.347	151.252	151.25 KW	BANQUET
15	12th FLOOR	1008.347	10.083	10.08 KW	SERVICE
17	14th FLOOR	836.912	41.846	41.85 KW	STUDIO
18	15th FLOOR	836.912	41.846	41.85 KW	STUDIO
19	16th FLOOR	836.912	41.846	41.85 KW	STUDIO
20	17th FLOOR	693.918	34.696	34.70 KW	STUDIO
21	18th FLOOR	693.918	6.939	6.94 KW	SERVICE
22	19th FLOOR	453.199	67.980	67.98 KW	CLUB
10	<b>GRAND TOTAL</b>			<b>1509.58 KW</b>	
	Considering 80% /50% Diversity for load			<b>1099.84 KW</b>	
	<b>TRANSFORMER SELECTION</b>				
	Total Maximum Demand in KW Load on Transformer			<b>1099.84 KW</b>	
	Maximum Demand Load in KVA (Power Factor@0.9)			<b>1222.04 KVA</b>	
	Transformer Capacity Considering 125% Loading			<b>1527.55 KVA</b>	
	<b>it is proposed to install 1 No. 1600 KVA 33KV/433 V Oil Type</b>				
	<b>DG SELECTION</b>				
	Total Maximum Demand in KW Load on DG Considering 70%			<b>769.89 KW</b>	
	Maximum Demand Load in KVA (Power Factor@0.8)			<b>962.36 KVA</b>	
	Transformer Capacity Considering 85% Loading			<b>1132.19 KVA</b>	
	<b>it is proposed to install 1 No. 750 KVA &amp; 1 No. 500 KVA DG Sets.</b>				

SIGNING AUTHORITY

ARCHITECTS SIGN

SUBMISSION DRAWING

PROJECT:-  
**PROPOSED COMMERCIAL FOR  
M/s. VINAYAKA EXPO PVT. LTD.  
AT PLOT No. SLC-3/5  
SECTOR-ALPHA-2 G.NOIDA. (U.P.)**

DRG. TITLE:-  
**ELECTRICAL PLAN**

SCALE:-1:100  
DRG. NO.:RW-01  
D.LT.BY:-  
DATE:-23/01/2025

ARCHITECTS:-  
P. N. ANDLEY B.ARCH. A.I.I.A.  
**ANDLEYS ASSOCIATES PVT. LTD.**  
ARCHITECTS ENGINEERS PLANNERS  
39 HOUSING SOCIETY N.D.S.E.-I NEW DELHI - 110049

