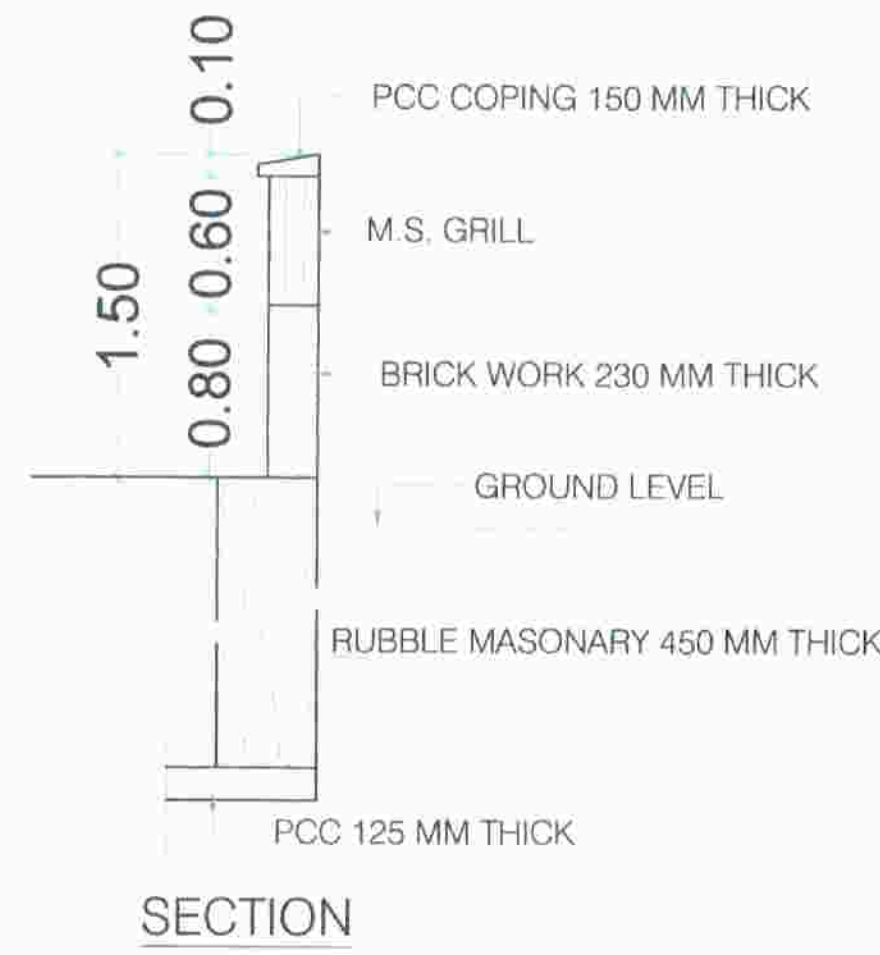
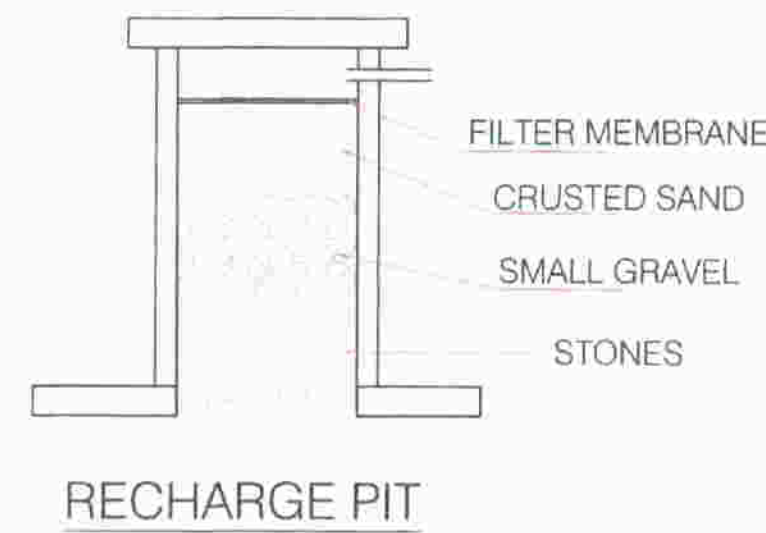
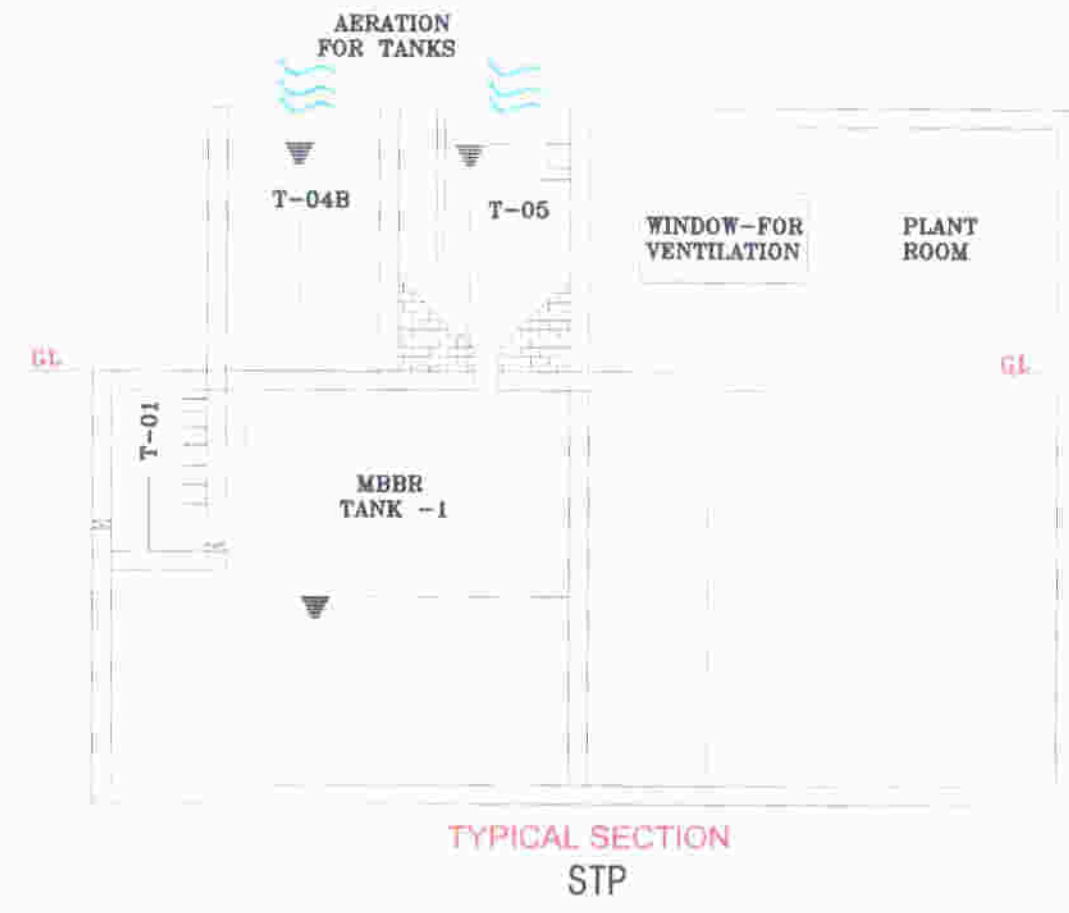
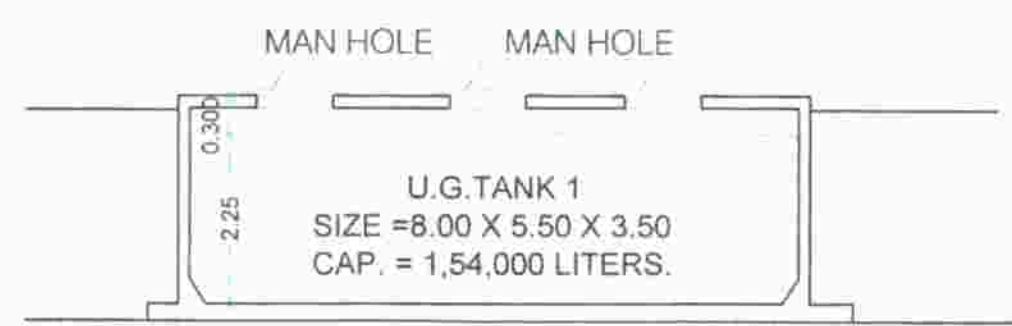


Building Number	Number of Tenement t	Population	Water Requirement					Flow to Sewer			Total Flow to STP		STP Provided	
			Flushing	Domestic			Total	Flushing -100%	Domestic -85%	Total	LPD	LPD	Size	Capacity
(1)	(2)	(3)=[(2) X 5] RESIDENCE &SHOP[(2) X 3]	(4)	(5)=[(3) X 4]	(6)	(7)=[(3) X 6]	(8)=[(5) X 100%]	(9)=[(5) X 85%]	(10)=[(7) X 85%]	(11)=[(9) + (10)]	(12)	(13)	(14)	
1	32	160	54	8640	135	21600	30240	8640	18360	27000	27000.00			
2	13	65	54	2106	135	5265	7371	2106	4475.25	6581.25	6581.25			
3	64	320	54	17280	135	43200	60480	17280	36720	54000	54000.00			
4	48	240	54	12960	135	32400	45360	12960	27540	40500	40500.00	12.5 X 6X2.5	187.5	
5	27	135	54	7290	135	18225	25515	7290	15491.25	22781.25	22781.25			
6	36	180	54	9720	135	24300	34020	9720	20655	30375	30375.00			
7	6	30	54	1620	135	4050	5670	1620	3442.5	5062.5	5062.50			
8	48	240	54	12960	135	32400	45360	12960	27540	40500	40500.00	6X4.05X2.5	60.75	
9	24	120	54	6480	135	16200	22680	6480	13770	20250	20250.00			
											247050.00		248.25	

Note:

- i. LPD = Liter per capita per day.
- ii. LPD = Liter per day.
- iii. For septic tank capacity Flushing & domestic flow to sewer will be 100% & 85% respectively.
- iv. Size of Septic tank is excluding freeboard.



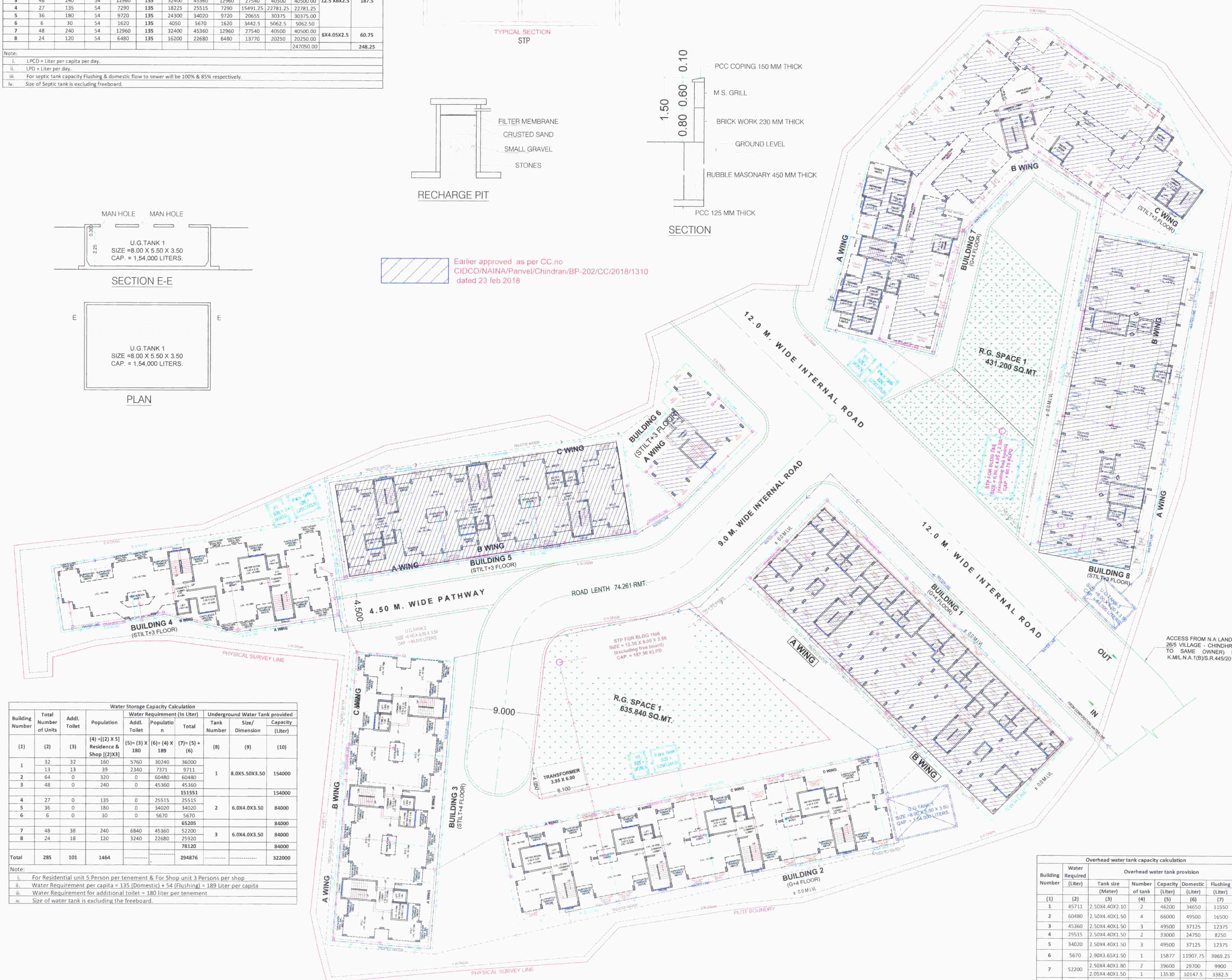
Earlier approved as per CC.no CIDCO/NAINA/Panvel/Chindran/BP-202/CC/2018/1310 dated 23 feb 2018

Building Number	Total Number of Units	Addl. Toilet	Population	Water Requirement (in Liter)			Underground Water Tank provided	Size/ Dimension	Capacity (Liter)
				Addl. Toilet	Population	Total			
(1)	(2)	(3)	(4)=[(2) X 5] Residence & Shop [(2) X 3]	(5)=[(3) X 180]	(6)=[(4) X 180]	(7)=[(5) + (6)]	(8)	(9)	(10)
1	32	16	160	5760	30240	36000	1	8.0X5.50X3.50	154000
2	13	6	65	2340	7371	9711	1	8.0X5.50X3.50	154000
3	64	32	320	17280	60480	77760	1	8.0X5.50X3.50	154000
4	48	24	240	12960	45360	58320	1	8.0X5.50X3.50	154000
5	27	13	135	7290	25515	32805	2	6.0X4.0X3.50	84000
6	36	18	180	9720	34020	43740	2	6.0X4.0X3.50	84000
7	6	3	30	1620	5670	7290	3	6.0X4.0X3.50	84000
8	48	24	240	12960	45360	58320	3	6.0X4.0X3.50	84000
9	24	12	120	6480	22680	29160	3	6.0X4.0X3.50	84000
Total	285	142	1425	45360	151155	196515			322000

Note:
i. For Residential unit 5 Person per tenement & For Shop unit 3 Persons per shop
ii. Water Requirement per capita = 135 (Domestic) + 54 (Flushing) = 189 liter per capita
iii. Water Requirement for additional toilet = 180 liter per tenement
iv. Size of water tank is excluding the freeboard.

SERVICE LAYOUT PLAN

SCALE = 1 : 200



Building Number	Water Required (Liter)	Overhead water tank provision				
		Tank size (Meter)	Number of tank	Capacity (Liter)	Domestic (Liter)	Flushing (Liter)
(1)	(2)	(3)	(4)	(5)	(6)	(7)
1	45711	2.50X4.40X2.10	2	46200	34650	11550
2	60480	2.50X4.40X1.50	4	66000	49500	16500
3	45360	2.50X4.40X1.50	3	49500	37125	12375
4	25515	2.50X4.40X1.50	2	33000	24750	8250
5	34020	2.50X4.40X1.50	3	49500	37125	12375
6	5670	2.90X3.65X1.50	1	15877	11907.75	3969.25
7	52200	2.50X4.40X1.80	2	39600	29700	9900
8	25920	2.05X4.40X1.50	1	13530	10147.5	3382.5
Total			2	33000	24750	8250

Note:
i. Overhead tank capacity shall be minimum 50% of water requirement.
ii. Size of Overhead tank is excluding freeboard.

Approved subject to the conditions mentioned in this office letter / certificate vide no. CIDCO/NAINA/Panvel/Chindran/BP-00202/ACC/2020/0043 dated 28.07.2020

SHUBHANG I PRASHANT KALE
Digitally signed by SHUBHANG I PRASHANT KALE
Date: 2020.07.28 17:44:37 +05'30'

Legend		
Sr. No.	Item	Service Plan
(1)	(2)	(3)
1	Plot Line	
2	Existing Street	
3	Future Street	
4	Drainage And Sewerage Work	
5	Water Supply Work	
6	R/W Line	
7	S.W. Drain	
8	Treated water line	

SERVICES LAYOUT, COMPOUND WALL SECTION & ELEVATION, SEPTIC TANK DETAILS, UG TANK DETAIL, PIT SECTION, OH TANK & UG TANK CAPACITY CALCULATION, SEPTIC TANK REQUIREMENT

PROPOSED RESIDENTIAL BUILDINGS ON S. NO. 5/9, 5/11, 5/12 & 5/14 AT VILLAGE - CHINDRAN, TAL. - PANVEL, DIST. - RAIGAD.

NAME ADDRESS & SIGN. OF OWNER

NAME ADDRESS & SIGN. OF ARCHITECT

MR. BHUSAHEB N. SHINGADE
DRAWN BY : RVG
CHECKED BY : CP
SCALE : REFER LAYOUT
DATE : 20.04.2020

PRADEEP DHORE B.ARCH, M.E
DATE : 20.04.2020

DESIGNO
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