



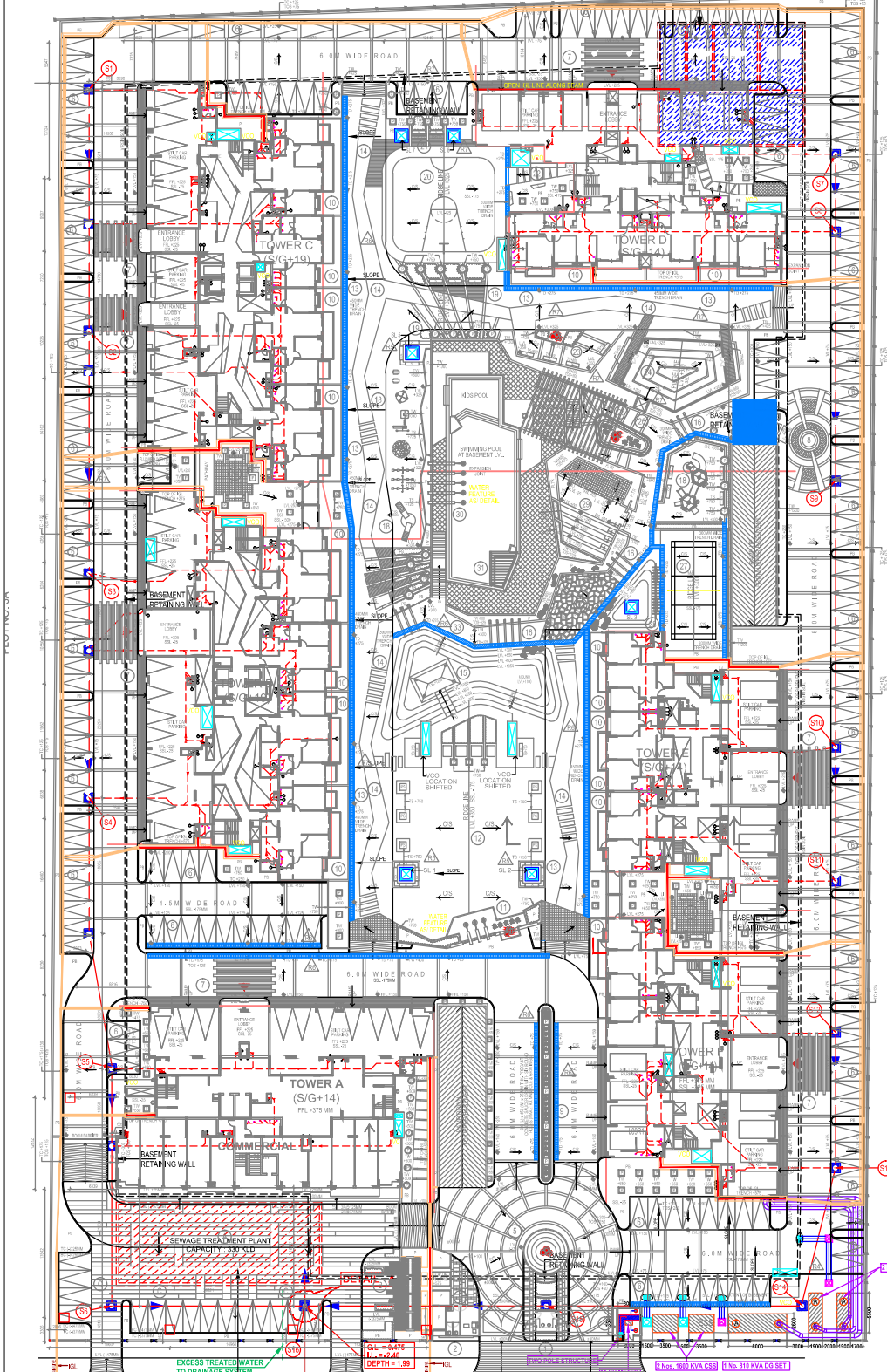
REF. R.L. OF INTERNAL ROAD LVL (0.000) 203.485

U.G. TANK & PUMP HOUSE TOTAL CAP = 630 KL

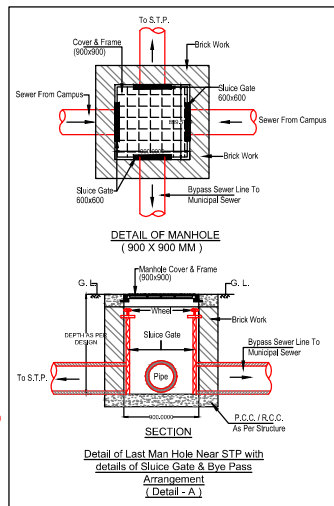
PLOT NO. 3

LEGEND :		
S. No.	SYMBOL	DESCRIPTION
1.	M.H.	MANHOLE
2.	—	SEWER LINE
3.	—	BASEMENT RETAINING WALL
4.	F.L.	FORMATION LEVEL
5.	I.L.	INVERT LEVEL
6.	C.L.	CONNECTION LEVEL
7.	R.L.	ROAD LEVEL
8.		

- NOTES : SEWERAGE SYSTEM**
1. THE SIZE OF MANHOLE SHALL BE AS UNDER (INNER SIZES)
a) Up to 900 m. depth 600 x 600 m.
b) 900 to 1500 m. depth 900 m. dia.
c) 1500 to 2250 m. depth 1200 m. dia.
d) Above 2250 m. depth 1500 m. dia.
 2. The layout of sewer has been worked out on the basis of surface ground level and for certain pipe lengths between two manholes, the invert levels has to be strictly followed. However, the slope of the line may be slightly changed.
 3. For any discrepancy / inconsistency the matter should refer to the consultants before execution.
 4. Manhole shall be provided at following places -
a) At the start of each sewer line.
b) At every junction and position where there is change of size, gradient and alignment.
c) At not more than 45 meter interval in straight length.
 5. Where the diameter of pipe is more than 1500 mm, the invert level shall be fixed at the same level and necessary steps shall be given in the invert of the manhole chamber.
 6. The structural design of manhole / pipe bedding has to be done for local field conditions such as that of soil, water table level, high and low water conditions.
 7. This drawing shall be read along with the detailed landscape plan & ground floor plan of respective building for exact location of manholes (see note 4).
 8. Sewer line under the road shall be covered with 150 brick, 100 x 150 x 40 mm.
 9. Manhole cover should be finished with finished formation level as per landscape drawing. The cover of manhole shall be square as per performance drawing & should be as indicated with landscape drawing.
 10. This drawing shall be coordinated with other drawing i.e. architectural, structural, electrical, landscape & other relevant drawing.
 11. Material of pipe :- RCP (R.C.P. 3) Pipe with rubber ring joint.
 12. In the areas subject to subsidence or that go out (due to excessive excavation or due to construction of basements) the sewer lines & manholes should be laid on suitable support or concrete grade supported on piles or suitable foundation as per structural design.
 13. In case where sewers are laid in high water table conditions manholes should be constructed in r.c.c. grade masonry.
 14. The width of trench for sewer and manhole should be 400 mm (400 x 400 mm).
 15. Shoring / bracing should be adequate to prevent caving of the trench walls of substantial of areas adjacent to the trench. An engineer-in-charge in consultation with a structural engineer should provide adequate arrangement to prevent caving.



PLOT NO. 3



DETAILS OF SEWER LINES											
Manhole No.	Length	Dia.	Slope	M.H. Top Level	Invert Level	Upper End	Lower End	Depth	M.H. Top Level	Invert Level	Depth
From To	(m)	(mm)	1 in 100	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
S1 S2	34	250	200	0.075	-1.30	1.38	0.075	-1.47	1.55		
S2 S3	34	250	200	0.075	-1.47	1.55	0.075	-1.64	1.72		
S3 S4	34	250	200	0.075	-1.64	1.72	0.075	-1.80	1.88		
S4 S5	36	250	200	0.075	-1.80	1.88	0.075	-1.94	2.02		
S5 S6	35	250	200	0.150	-1.94	2.09	-0.475	-2.06	1.61		
S6 S7	27	250	200	-0.475	-2.06	1.61	-0.475	-2.19	1.72		
S7 S8	12	250	200	0.075	-1.80	1.88	0.075	-1.96	1.44		
S8 S9	34	250	200	0.075	-1.96	1.44	0.075	-1.53	1.61		
S9 S10	37	250	200	0.075	-1.53	1.61	0.075	-1.72	1.79		
S10 S11	18	250	200	0.075	-1.72	1.79	0.075	-1.81	1.88		
S11 S12	22	250	200	0.075	-1.81	1.88	0.075	-1.92	1.99		
S12 S13	20	250	200	0.075	-1.92	1.99	0.075	-2.02	2.09		
S13 S14	20	250	200	0.075	-2.02	2.09	0.025	-2.12	2.14		
S14 S15	35	250	200	0.025	-2.12	2.14	0.025	-2.25	2.32		
S15 S16	34	250	200	0.025	-2.25	2.32	0.475	-2.46	1.99		
S16 STP	2	250	200	-0.475	-2.46	1.99	0.100	-2.47	2.57		

Project : REGENCY PARK GROUP HOUSING AT NOIDA EXTENSION

Title : LAYOUT PLAN

Sub-title : EXTERNAL SEWERAGE SYSTEM

Drawing Released For :

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Dwg. No. : RP / ES-01

Date : 05-04-2015

Scale : 1:300

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Architects : DES ARC

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