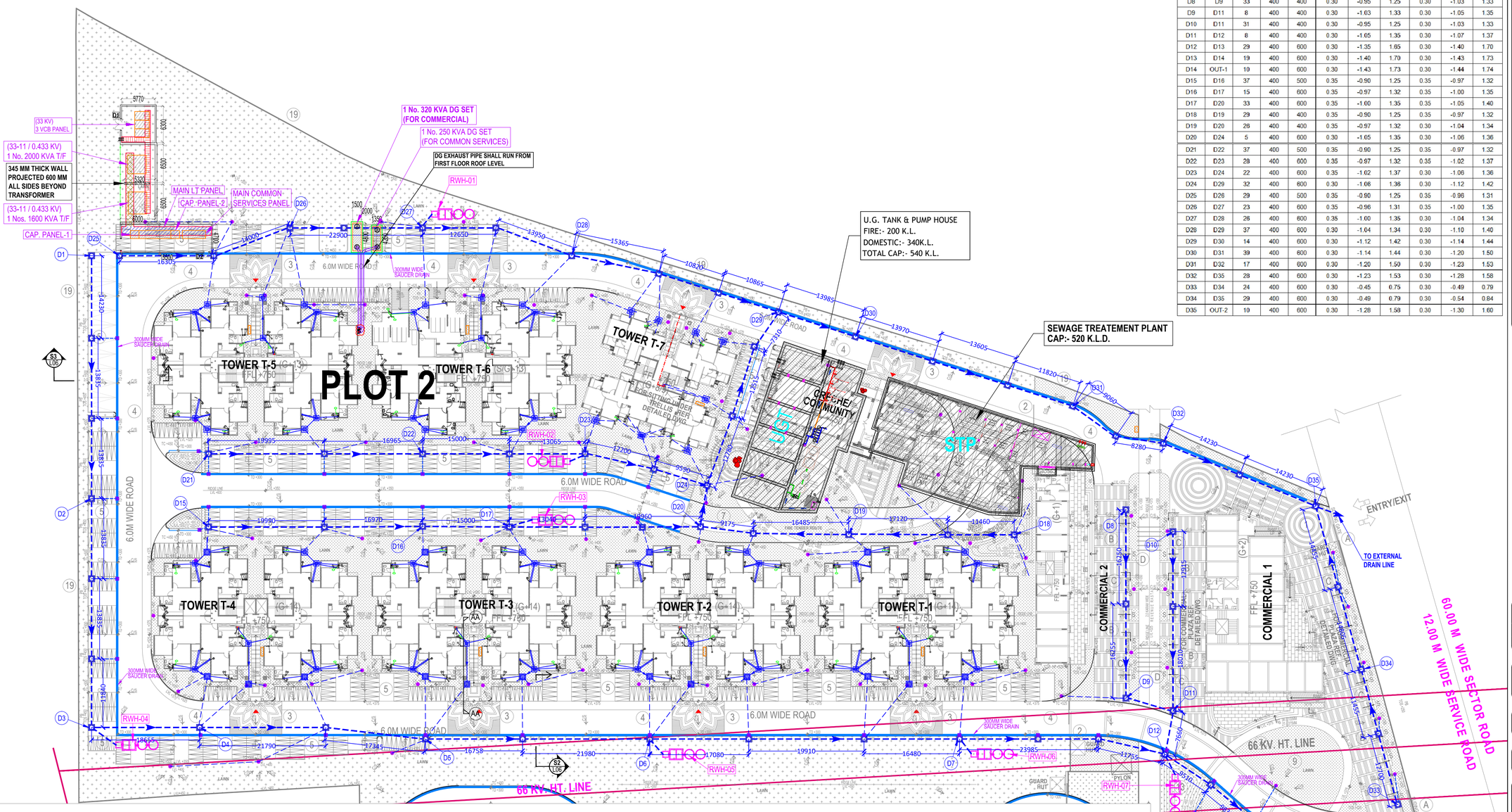


DETAILS OF DRAIN LINES

Catch Pit No.		Length	Dia.	Slope	C.P. Top Level	Invert Level	Depth	C.P. Top Level	Invert Level	Depth
From	To				Upper End			Lower End		
		(m)	(mm)	1 in	(m)	(m)	(m)	(m)	(m)	(m)
D1	D2	42	400	600	0.35	-0.90	1.25	0.35	-0.97	1.32
D2	D3	40	400	600	0.35	-0.97	1.32	0.35	-1.04	1.39
D3	D4	19	400	600	0.30	-1.04	1.34	0.30	-1.07	1.37
D4	D5	39	400	600	0.30	-1.07	1.37	0.30	-1.13	1.43
D5	D6	39	400	600	0.30	-1.13	1.43	0.30	-1.20	1.50
D6	D7	53	400	600	0.30	-1.20	1.50	0.30	-1.29	1.59
D7	D12	36	400	600	0.30	-1.29	1.59	0.30	-1.35	1.65
D8	D9	33	400	400	0.30	-0.95	1.25	0.30	-1.03	1.33
D9	D11	8	400	400	0.30	-1.03	1.33	0.30	-1.05	1.35
D10	D11	31	400	400	0.30	-0.95	1.25	0.30	-1.03	1.33
D11	D12	8	400	400	0.30	-1.05	1.35	0.30	-1.07	1.37
D12	D13	29	400	600	0.30	-1.35	1.65	0.30	-1.40	1.70
D13	D14	19	400	600	0.30	-1.40	1.70	0.30	-1.43	1.73
D14	OUT-1	10	400	600	0.30	-1.43	1.73	0.30	-1.44	1.74
D15	D16	37	400	500	0.35	-0.90	1.25	0.35	-0.97	1.32
D16	D17	15	400	600	0.35	-0.97	1.32	0.35	-1.00	1.35
D17	D20	33	400	600	0.35	-1.00	1.35	0.35	-1.05	1.40
D18	D19	29	400	400	0.35	-0.90	1.25	0.35	-0.97	1.32
D19	D20	26	400	400	0.35	-0.97	1.32	0.30	-1.04	1.34
D20	D24	5	400	600	0.30	-1.05	1.35	0.30	-1.06	1.36
D21	D22	37	400	500	0.35	-0.90	1.25	0.35	-0.97	1.32
D22	D23	28	400	600	0.35	-0.97	1.32	0.35	-1.02	1.37
D23	D24	22	400	600	0.35	-1.02	1.37	0.30	-1.06	1.36
D24	D29	32	400	600	0.30	-1.06	1.36	0.30	-1.12	1.42
D25	D26	29	400	500	0.35	-0.90	1.25	0.35	-0.96	1.31
D26	D27	23	400	600	0.35	-0.96	1.31	0.35	-1.00	1.35
D27	D28	26	400	600	0.35	-1.00	1.35	0.30	-1.04	1.34
D28	D29	37	400	600	0.30	-1.04	1.34	0.30	-1.10	1.40
D29	D30	14	400	600	0.30	-1.12	1.42	0.30	-1.14	1.44
D30	D31	39	400	600	0.30	-1.14	1.44	0.30	-1.20	1.50
D31	D32	17	400	600	0.30	-1.20	1.50	0.30	-1.23	1.53
D32	D35	28	400	600	0.30	-1.23	1.53	0.30	-1.28	1.58
D33	D34	24	400	600	0.30	-0.45	0.75	0.30	-0.49	0.79
D34	D35	29	400	600	0.30	-0.49	0.79	0.30	-0.54	0.84
D35	OUT-2	10	400	600	0.30	-1.28	1.58	0.30	-1.30	1.60

LEGEND :

S. No.	SYMBOL	DESCRIPTION
1.	C.P.	CATCH PIT
2.		UNDER GROUND DRAIN
3.		RAIN WATER HARVESTING

NOTES : DRAINAGE SYSTEM

1. THE SIZE OF CATCHPIT SHALL BE AS UNDER (INNER SIZES)
   a) Upto 900 m.m. depth — 600 x 600 m.m.
   b) 900 to 1650 m.m. depth — 900 m.m. dia.
   c) Above 1650 m.m. depth — 1200 m.m. dia.
2. The levels of drainage lines has been worked out on the basis of certain ground level and for certain pipe lengths between two catchpits. the invert levels has to be strictly followed. however, the slope of line may be slightly changed.
3. For any descripency / ommission the matter should refer to the consultants before execution.
4. Catchpit shall be provided at following places :-
   a) At the start of each drain line.
   b) At every junction and position where there is change of size, GRADIENT AND alignment.
   c) At not more than 15 meter interval in straight length.
5. The structural design of catchpit / pipe bedding has to be done for local field conditions such as filled up soil / black cotton soil / high sub soil conditions.
6. This drawing shall be read along with the detailed landscape plan & ground floor plan of respective building for exact location of appurtenances / catchpit etc.
7. Drainage line under the road shall be encased with 150 thick, pcc 1:2:4 allround.
8. Catchpit cover should be finished with finished formation level as per landscape drawing. the cover of catch pit shall be square as per appurtenances drawing & should be co-ordinated with landscape drawing.
9. This drawing shall be coordinated with other drawing i.e. architecture, structural, electrical, landscape & other relevant drawing.
10. Material of pipe :- RCC (NP 3) Pipe with rubber ring joint
11. In the areas subject to subsidence or filled up soil (due to exces excavation at site for construction of basements) the drain lines & catchpit should be laid on suitable support or concrete cradle supported on piles or suitable foundation as per structural design.
12. In case where drain are laid in high subsoil conditions catchpits should be constructed in r.c.c. garde m-25.
13. The width of trench for sewer and drainage should be d+ 400mm. (d= o.d. of pipe).
14. Shoring / timbering should be adequate to prevent caving-in of the trench walls of subsidence of areas adjacent to the trench. an engineer-in-charge in consultation with a structural engineer should provide adequate arrangement to prevent caving-in.
15. Before taking up the execution, the feasibility of connection of drain with the outside drainage may please be checked. any descrepancy may be reported to the consultant.

Rev. No.	Date	Revision
R2	01-09-2022	DRAIN CATCH BASIN POSITION REVISED AS PER ESS/DG SETS/PANEL ROOM LOCATION CHANGED.
R1	05-03-2022	ISSUE GFC.

Project :
SIGNATURE GLOBAL HOUSING SEC -89,
GURUGRAM, HARYANA

Title :
LAYOUT PLAN (PROXIMA 2)

Subtitle :
EXTERNAL DRAINAGE SYSTEM

Drawing Released For :
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☐ ADVANCE COPY ☒ CONSTRUCTION

Drg. No : S-89 / PROXIMA 2 /ES-02

Scale : 1:375 **Drawn By :** Amit Kamboj

Date : Dec. 2021 **Design By :** Sanjay Goel

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