



LEGEND: FIRE SYSTEM

S.No.	SYMBOL	DESCRIPTION
1.	---	FIRE LINE
2.	YH	YARD HYDRANT 63 MM DIA. SINGLE HEADED HYDRANT VALVE WITH 2 NOS. 15 M. LONG, 63 MM DIA. FIRE HOSE PIPE & 1 NO. BRANCH PIPE WITH NOZZLE
3.	○ ○ ○ ○	FIRE BRIGADE CONNECTION
4.	---	BUTTERFLY VALVE
5.	---	NONRETURN VALVE (CHECK VALVE)
6.	---	ISOLATING VALVE WITH MASONRY CHAMBER

LEGEND:

S.No.	SYMBOL	DESCRIPTION
1.	---	RECYCLE WATER SUPPLY PIPE LINE.
2.	---	RISING MAIN WATER PIPE LINE.
3.	---	MUNICIPAL WATER SUPPLY PIPE LINE.
4.	---	ISOLATING VALVE
5.	---	MASONRY CHAMBER FOR ISOLATING VALVE
6.	○	PROPOSED TUBE WELL
7.	---	BASEMENT LINE
8.	GH	GARDEN HYDRANT

PROJECT - PROPOSED GROUP HOUSING AT YAMUNA EXPRESS WAY

WATER REQUIREMENT CALCULATIONS (SUBMISSION)

S.No.	Description	Built up Area (Sq.M)	Hortic ulture Water Requir ement per Sq.M Area	No. of Units / Seats	Unit Population	Total Populati on	Domestic Fresh Water Requirement (A)		Recycle Water Requirement (B)		Total Water Requirem nt (A+B)		Flow to Sewer	
							LPCD	LPD	LPCD	LPD	LPD	Domestic 90%	Flushing 100%	LPD
1	Apartments (3 BHK)			484	5	2420	90	217800	45	108900	326700	190020	108900	304920
2	Floating Population					240	5	1200	10	2400	3600	1080	2400	3480
3	Maintenance Staff / Drivers					120	25	3000	20	2400	5400	2700	2400	5100
4	Population (Club)	2613			1.4 Sq.M/person	1870								
4.1	Permanent Population (Club)				@ 10% of total population	190	25	4750	20	3800	8550	4275	3800	8075
4.2	Floating Population (Club)				@ 90% of total population	1680	5	8400	10	16800	25200	7560	16800	24360
5	Commercial (LS)						5000	0	0	5000	4500	0	4500	
6	Filter Backwash						15000			15000			15000	
7	Makeup Water for Swimming Pool						10000			10000			10000	
8	Horticulture	8922	4						35688	35688			35688	
Total								265,190	169,988	435,138	216,135	149,300	365,435	

SUMMARY OF WATER REQUIREMENT / UGT & STP CAPACITY CALCULATION

Description	Water Requirement (KLD)
Domestic Fresh Water Requirement	265
Recycle Water Requirement	170
Flow to Sewer	365
STP Capacity required	370
Net water balance (to discharge into external municipal system)	195
UGT Capacity	
For Domestic Use (1 day storage)	270 KL
For Fire Fighting	400 KL
For Water Curbin	170 KL
Total UGT Capacity	840 KL

Project
PROPOSED "VIP YAMUNA" GROUP HOUSING
 AT PLOT NO. GH/01B2, SECTOR-22D, YAMUNA EXPRESSWAY INDUSTRIAL DEVELOPMENT AUTHORITY (YEDA), G. B. NAGAR (G.B.P.)

Title
SITE PLAN (Authority Submission)

Subtitle
EXTERNAL WATER SUPPLY SYSTEM

Drawing released for
 APPROVAL
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 SUBMISSION
 CONSTRUCTION

Drg. no.
 VVP YA / EX / S-03

Scale
 1 : 310

Date
 Sep. 2025

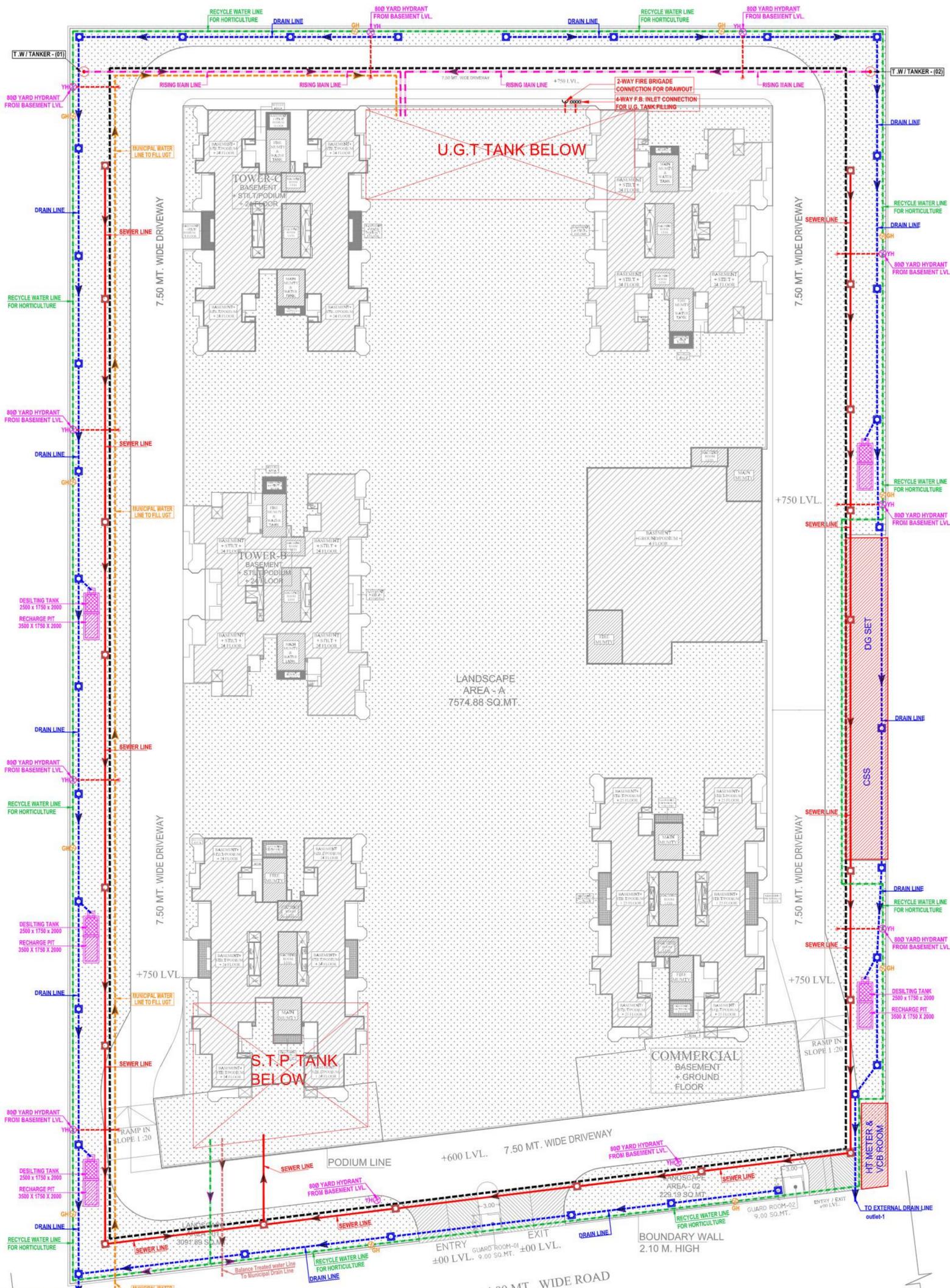
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LEGEND :

S. No.	SYMBOL	DESCRIPTION
1	M.H.	MANHOLE
2	—	SEWER LINE
3	---	BALANCE TREATED WATER LINE
4	C.P.	CATCH PIT
5	—	UNDERGROUND DRAIN
6	—	RAIN WATER HARVESTING
7	---	RECYCLED WATER SUPPLY PIPE LINE
8	---	RISEING MAIN WATER PIPE LINE
9	---	MUNICIPAL WATER SUPPLY PIPE LINE
10	—	ISOLATING VALVE
11	—	MASONRY CHAMBER FOR ISOLATING VALVE
12	—	PROPOSED TUBE WELL
13	—	BASEMENT LINE
14	GH	GARDEN HYDRANT

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4.	—	BUTTERFLY VALVE
5.	—	NONRETURN VALVE (CHECK VALVE)
6.	—	ISOLATING VALVE WITH MASONRY CHAMBER



Project
PROPOSED "VVIP YAMUNA" GROUP HOUSING
 AT PLOT NO. GH-01/02, SECTOR-67, YAMUNA
 EXPRESSWAY INDUSTRIAL DEVELOPMENT
 AUTHORITY (EIDA), G. B. NAGAR (G.P.)

Title
SITE PLAN (Authority Submission)

Subtitle
EXTERNAL COMBINED SERVICES

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 VIPYA / EX / S-05

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 1 : 310

Date
 Sep. 2025

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