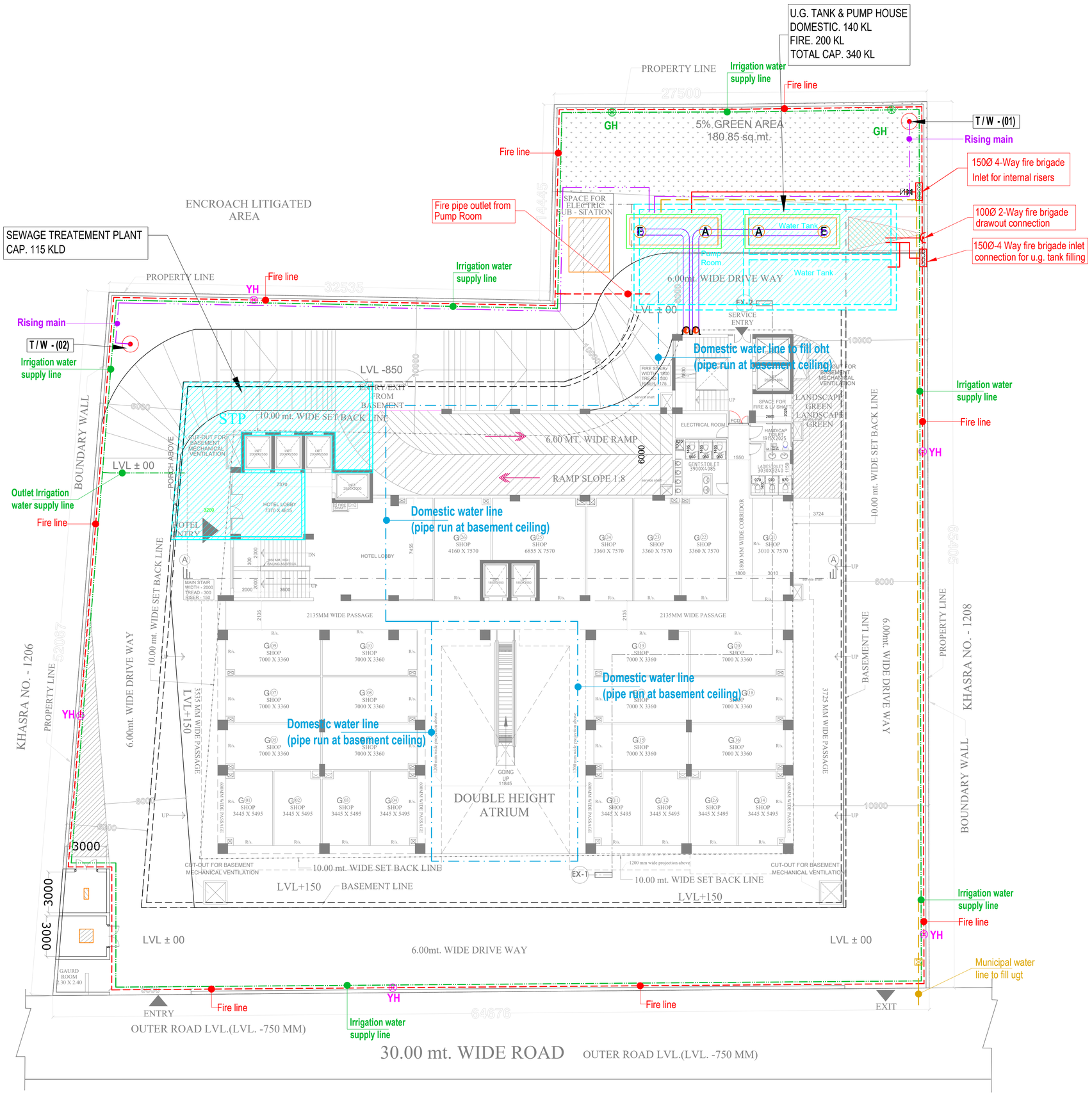

PROJECT : ROCK ONE SQUARE AT VILLAGE NOORNAGAR, GHAZIABAD (U.P)

DOMESTIC WATER REQUIREMENT

S. No.	Description	Occupancy	Units/Area	Total Population	Total water Req. L/Head	Total water Req. LPD
1	Studio/Guest rooms	168 units	2 person/unit	336	260	87360
	Staff	10% of hotel population		34	25	850
2	Commercial Area					
	Ground floor	1261 sqm	3 sqm/person	421		
	First floor	1302 sqm	6 sqm/person	217		
	Second floor	1460 sqm	6 sqm/person	244		
	Third floor	1460 sqm	6 sqm/person	244		
	Fourth floor	1460 sqm	6 sqm/person	244		
	Visitors	90% of total population of commercial area	-	1233	5	6165
	Staff	10% of total population of commercial area	-	137	25	3425
	Total Water Requirement					**97800**
	SAY					**100KL**

FLUSHING WATER REQUIREMENT

S. No.	Description	Occupancy	Units/Area	Total Population	Total water Req. L/Head	Total water Req. LPD
1	Studio/Guest rooms	168 units	2 person/unit	336	60	20160
	Staff	10% of hotel population		34	20	680
2	Commercial Area					
	Ground floor	1261 sqm	3 sqm/person	421		
	First floor	1302 sqm	6 sqm/person	217		
	Second floor	1460 sqm	6 sqm/person	244		
	Third floor	1460 sqm	6 sqm/person	244		
	Fourth floor	1460 sqm	6 sqm/person	244		
	Visitors	90% of total population of commercial area	-	1233	10	12330
	Staff	10% of total population of commercial area	-	137	20	2740
	Total Water Requirement					**35910**
	SAY					**40KL**

Flow to STP						
	Domestic @ 80%	78240				
	Flushing @100%	35910				
		114150				
	Say	**115 KLD**				
	AS PER CALCULATION					
	Under Ground tank detail					
1	Fire Water Tank	**200 KL**				
	(Considering under Residential A-5 category)					
2	Raw water tank	**50 KL**	Full day demand at UGT			
3	Domestic water tank	**50 KL**	Full day demand at UGT			
4	Flushing water tank in STP	**40 KL**	Full day demand at STP			

LEGEND :

S. No.	SYMBOL	DESCRIPTION
1.		DOMESTIC WATER LINE TO FILL DOMESTIC OHT
2.		FLUSHING WATER LINE TO FILL FLUSHING OHT
3.		IRRIGATION WATER SUPPLY LINE
4.		MUNICIPAL WATER SUPPLY PIPE LINE.
5.	GH	GARDEN HYDRANT

LEGEND : FIRE SYSTEM

S. No.	SYMBOL	DESCRIPTION
1.		YARD HYDRANT LINE
2.	YH	YARD HYDRANT 63 M.M. DIA. SINGLE HEADED HYDRANT VALVE WITH 2 NOS. 15 M. LONG, 63 M.M. DIA. FIRE HOSE PIPE & 1 NO. BRANCH PIPE WITH NOZZLE

Rev. No.	Date	Revision
..	..	..

Project :
ROCK ONE SQUARE
AT VILLAGE NOOR NAGAR GHAZIABAD (U.P.)

Title :
LAYOUT PLAN

Subtitle :
EXTERNAL WATER & FIRE SYSTEM

Drawing Released For :
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Drg. No : Riveria / Rera / ES -04

Scale : 1:150 **Drawn By :** MANU

Date : February 2026 **Design By :**

Ckd By :

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