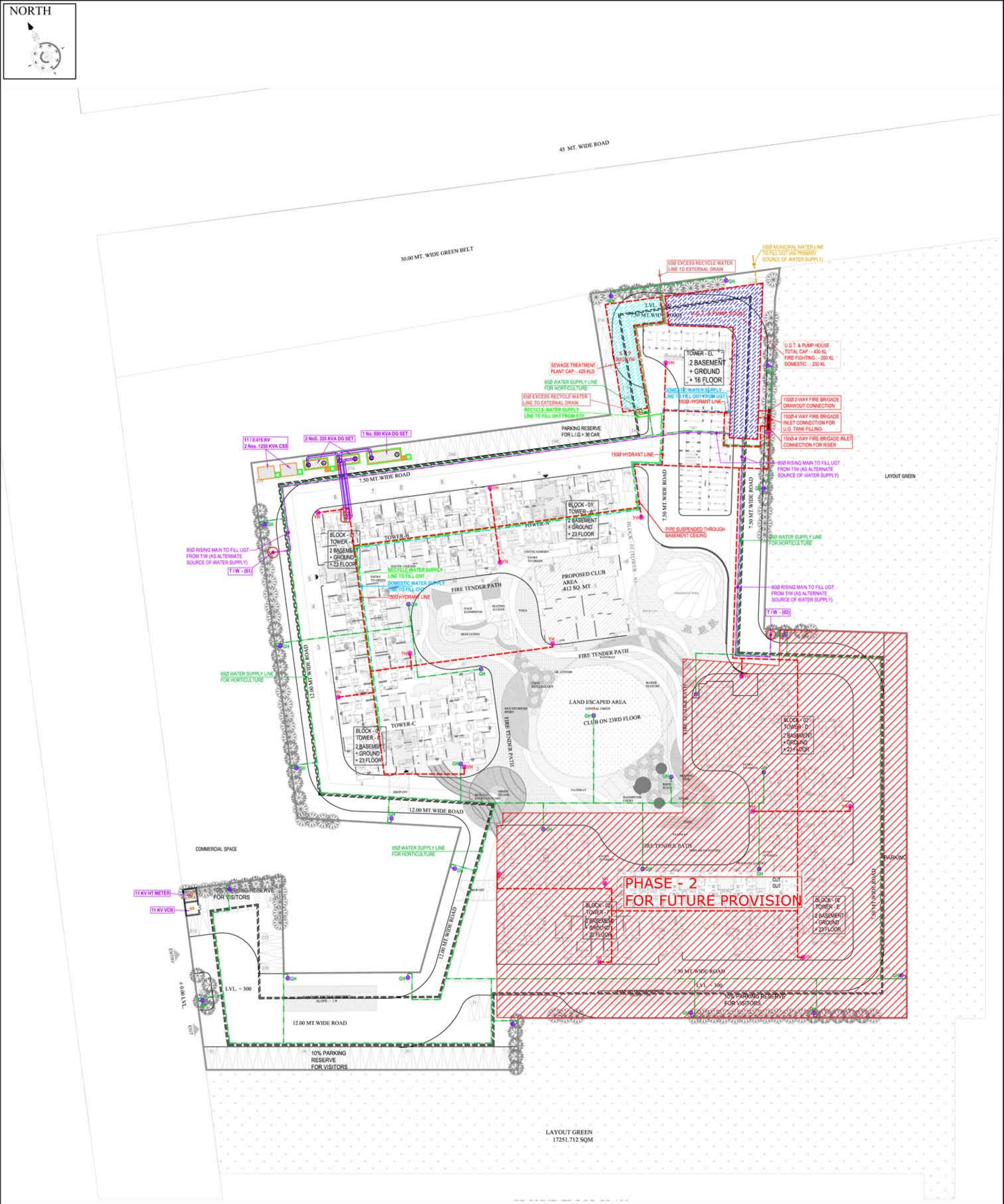
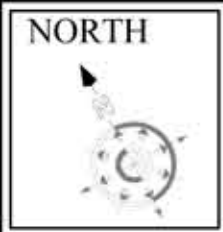




LEGEND :		
S. No.	SYMBOL	DESCRIPTION
1.		RISING MAIN LINE (FROM T/W TO U.G.T.)
2.		MUNICIPAL WATER SUPPLY PIPE LINE
3.		RECYCLED WATER SUPPLY LINE FOR FLUSHING
4.		RECYCLED WATER SUPPLY LINE FOR HORTICULTURE
5.		DOMESTIC WATER SUPPLY LINE
6.		PROPOSED TUBE WELL
7.		GARDEN HYDRANT
8.		BASEMENT RETAINING WALL

LEGEND :		
S. No.	SYMBOL	DESCRIPTION
1.		FIRE LINE
2.		YARD HYDRANT 63 M.M. DIA. SINGLE HEADED HYDRANT VALVE WITH 2 NOS. 15 M. LONG, 53 M.M. DIA. FIRE HOSE PIPE & 1 NO. BRANCH PIPE WITH NOZZLE
3.		4 WAY FIRE BRIGADE INLET CONNECTION
4.		2 WAY FIRE BRIGADE DRAWOUT CONNECTION
5.		BUTTERFLY VALVE
6.		NONRETURN VALVE (CHECK VALVE)
7.		ISOLATING VALVE WITH MASONARY CHAMBER

PROJECT - MARINA SUITES, NH-24, GHAZIABAD

WATER REQUIREMENT CALCULATIONS

S.No.	Description	Built up Area	Horticulture Water Requirement	No. of Units / Seats	Unit Population	Total Population	Domestic Fresh Water Requirement (A)		Recycle Water Requirement (B)		Total Water Requirement (A+B)	Flow to Sewer		
		(Sq.M)	per Sq.M Area				LPCD	LPD	LPCD	LPD		Domestic 80%	Flushing 100%	LPD
1	Apartments			667	5	3335	90	300150	45	150075	450225	240120	150075	390195
2	Club					334	45	15008	0	0	15008	12006	0	12006
3	Floating Population					167	5	834	10	1667.5	2501	667	1668	2335
4	Staff					167	25	4169	20	3335	7504	3335	3335	6670
5	Commercial (LS)							5000	0	0	5000	4000	0	4000
6	Filter Backwash							10000			10000		10000	10000
7	Makeup Water for Swimming Pool							5000			5000			
8	Horticulture	6078.38	7							42548.66	42548.66			
	Total							3,40,160		1,97,626	5,37,786	2,60,128	1,65,078	4,25,206

SUMMARY OF WATER REQUIREMENT / UGT & STP CAPACITY CALCULATION

S.No.	Description	Water Requirement (KLD)
1	Domestic Fresh Water Requirement	340
2	Recycle Water Requirement	198
3	Flow to Sewer	425
	STP Capacity required	425
	STP Capacity rounded off	425
4	Net treated water balance (to discharge into drainage system)	228
	UGT Capacity	
	For Domestic Use (16 hrs storage)	230 KL
	For Fire Fighting (as per NBC)	200 KL
	Total UGT Capacity	430 KL