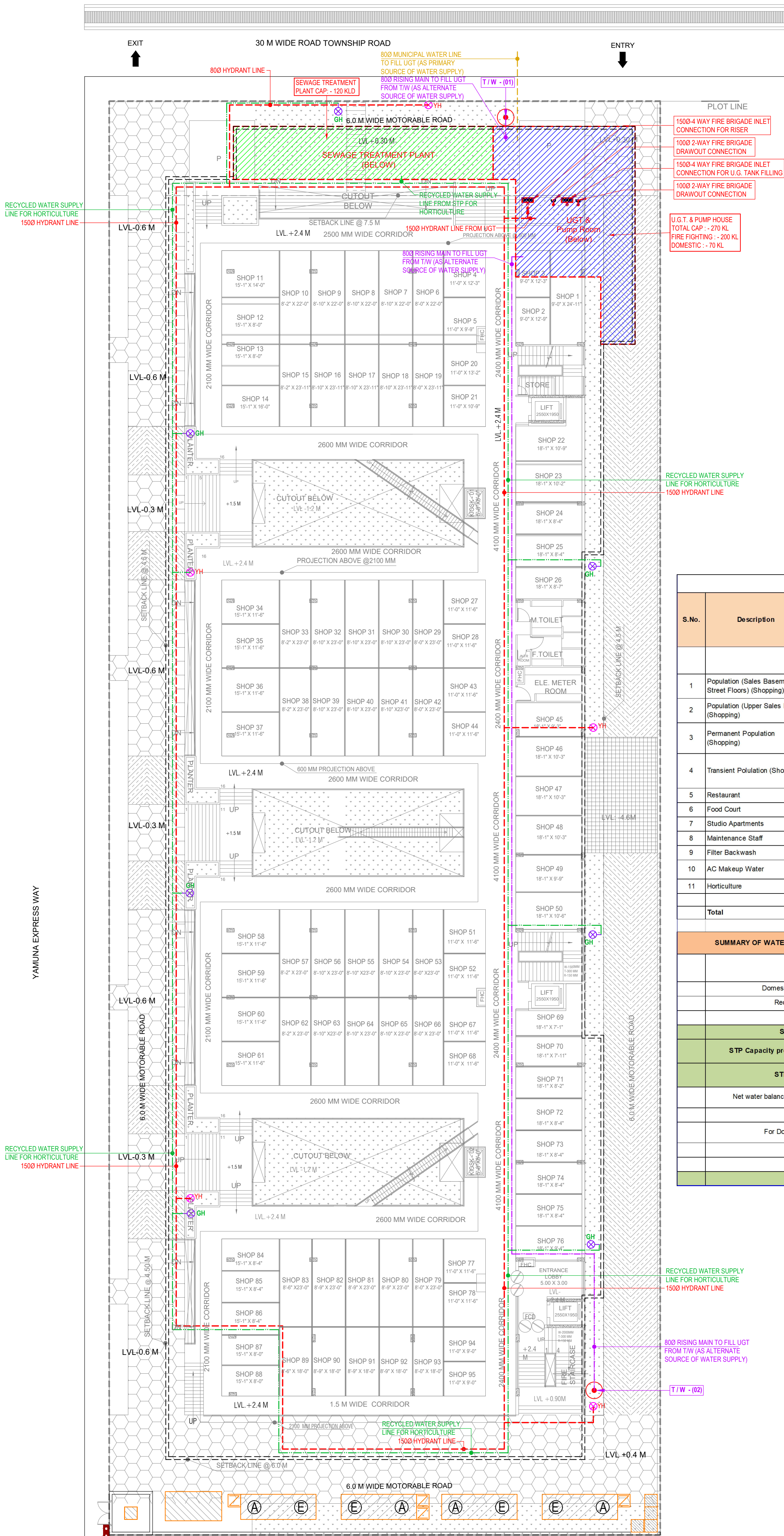
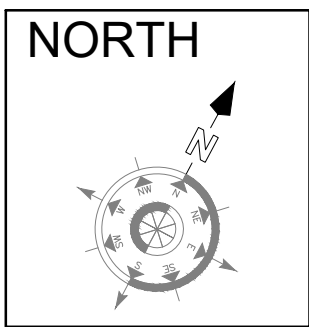




WATER REQUIREMENT CALCULATIONS												
S.No.	Description	Built up Area (Sq.M)	Horticulture Water Requirement (per Sq.M Area)	No. of Units / Seats	Unit Population	Total Population	Domestic Fresh Water Requirement (A)		Recycle Water Requirement (B)		Total Water Requirement (A+B)	
							LPD	LPD	LPD	LPD	LPD	LPD
1	Population (Sales Basement & Street Floors) (Shopping)	4677			3 SqM/person	1560						
2	Population (Upper Sales Floors) (Shopping)	2038			6 SqM/person	340						
3	Permanent Population (Shopping)				@ 25% of total population of Shopping	480	25	12000	20	9600	21600	9600
4	Transient Population (Shopping)				@ 75% of total population of Shopping	1430	5	7150	10	14300	21450	5720
5	Restaurant	370			1.8 SqM/person	210	55	11550	15	3150	14700	9240
6	Food Court	1863			1.8 SqM/person	1040	25	26000	10	10400	36400	20800
7	Studio Apartments			41	2	82	120	9840	60	4920	14760	7872
8	Maintenance Staff					50	25	1250	20	1000	2250	1000
9	Filter Backwash							5000			5000	5000
10	AC Makeup Water									60000	60000	
11	Horticulture	850	4							3400	3400	
Total								72,790		1,06,770	1,79,560	54,232

SUMMARY OF WATER REQUIREMENT / UGT & STP CAPACITY CALCULATION	
Description	Water Requirement (KLD)
Domestic Fresh Water Requirement	73
Recycle Water Requirement	107
Flow to Sewer	103
STP Capacity required	103
STP Capacity provided (by adding 20% as per MOEF)	123
STP Capacity rounded off	120
Net water balance (to discharge into sewerage system)	-4
UGT Capacity	
For Domestic Use (24 hrs storage)	70 KL
For Fire Fighting	150 KL
For Water Curtain	50 KL
Total UGT Capacity	270 KL

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 HORTICULTURE
4.	⊙	PROPOSED TUBE WELL
5.	⊙	GARDEN HYDRANT
6.	---	BASEMENT RETAINING WALL

S. No.	SYMBOL	DESCRIPTION
1.	---	FIRE LINE
2.	⊙	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
3.	---	FIRE BRIGADE CONNECTION
4.	---	BUTTERFLY VALVE
5.	---	NONRETURN VALVE (CHECK VALVE)
6.	---	ISOLATING VALVE WITH MASONARY CHAMBER
7.		
8.		