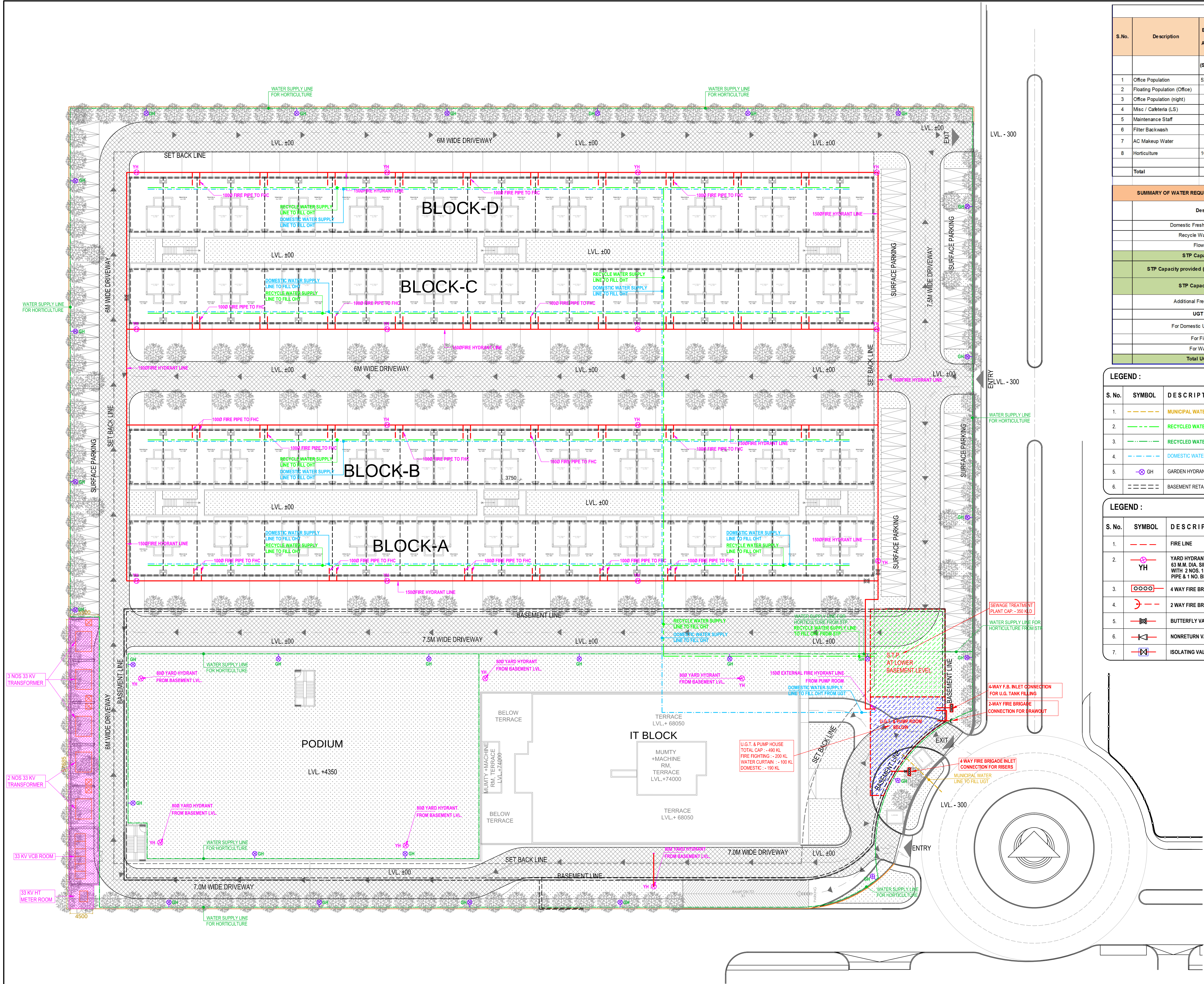


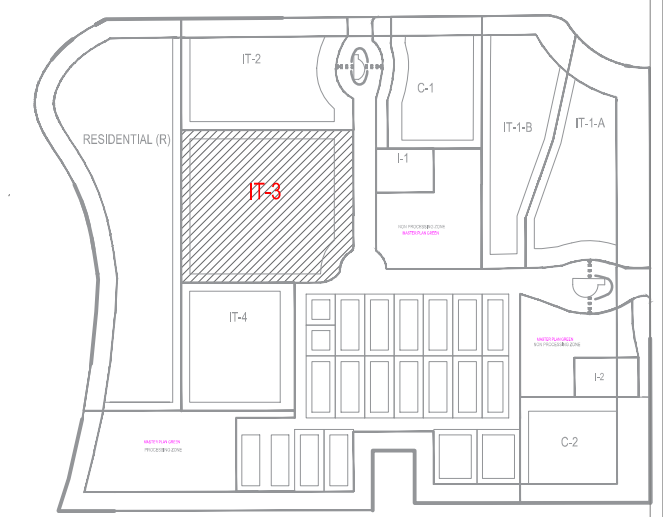


WATER REQUIREMENT CALCULATIONS														
S.No.	Description	Built up Area	Horticulture Water Requirement	No. of Units / Seats	Unit Population	Total Population	Domestic Fresh Water Requirement (A)		Recycle Water Requirement (B)		Total Water Requirement (A+B)	Flow to Sewer		
		(Sq.M)	per Sq.M Area				LPCD	LPD	LPCD	LPD	LPD	Domestic 80%	Flushing 100%	LPD
1	Office Population	52703			10 SqM/person	5280	25	132000	20	105800	237800	105800	105600	211200
2	Floating Population (Office)				10% of above	528	5	2640	10	5280	7920	2112	5280	7362
3	Office Population (night)					1320	25	33000	20	26400	59400	26400	26400	52800
4	Misc / Cafeteria (LS)							5000			5000	4000	0	4000
5	Maintenance Staff					100	25	2500	20	2000	4500	2000	2000	4000
6	Filter Backwash							10000			10000		10000	10000
7	AC Makeup Water									190000	190000			
8	Horticulture	10393	7							72751	72751			
	Total							1,85,140		4,02,031	5,87,171	1,40,112	1,49,280	2,89,392

SUMMARY OF WATER REQUIREMENT / UGT & STP CAPACITY CALCULATION	
Description	Water Requirement (KLD)
Domestic Fresh Water Requirement	185
Recycle Water Requirement	402
Flow to Sewer	289
STP Capacity required	289
STP Capacity provided (by adding 20% as per MOEF)	347
STP Capacity rounded off	350
Additional Fresh Water Required	113
UGT Capacity	
For Domestic Use (24 hrs storage)	190 KL
For Fire Fighting	200 KL
For Water Curtain	100 KL
Total UGT Capacity	490 KL

LEGEND :		
S. No.	SYMBOL	DESCRIPTION
1.	---	MUNICIPAL WATER SUPPLY PIPE LINE
2.	---	RECYCLED WATER SUPPLY LINE FOR FLUSHING
3.	---	RECYCLED WATER SUPPLY LINE FOR HORTICULTURE
4.	---	DOMESTIC WATER SUPPLY LINE
5.	GH	GARDEN HYDRANT
6.	---	BASEMENT RETAINING WALL

LEGEND :		
S. No.	SYMBOL	DESCRIPTION
1.	---	FIRE 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
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



rev. no.	date	revision
..	..	..

project
PROPOSED IT-3, IT-SEZ,
ON PLOT NO. TZ-6, GREATER NOIDA

title
LAYOUT PLAN

sub-title
EXTERNAL WATER SUPPLY SYSTEM

drawing released for
☒ SUBMISSION ☐ APPROVAL
☐ ADVANCE COPY ☐ CONSTRUCTION

drwg. no. IT-3 / 23801 / ES-03 drawn by Prem Saini

scale 1 : 375 designed by Badri Vishal

date 21.07.2023 checked by Anand Havelia

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