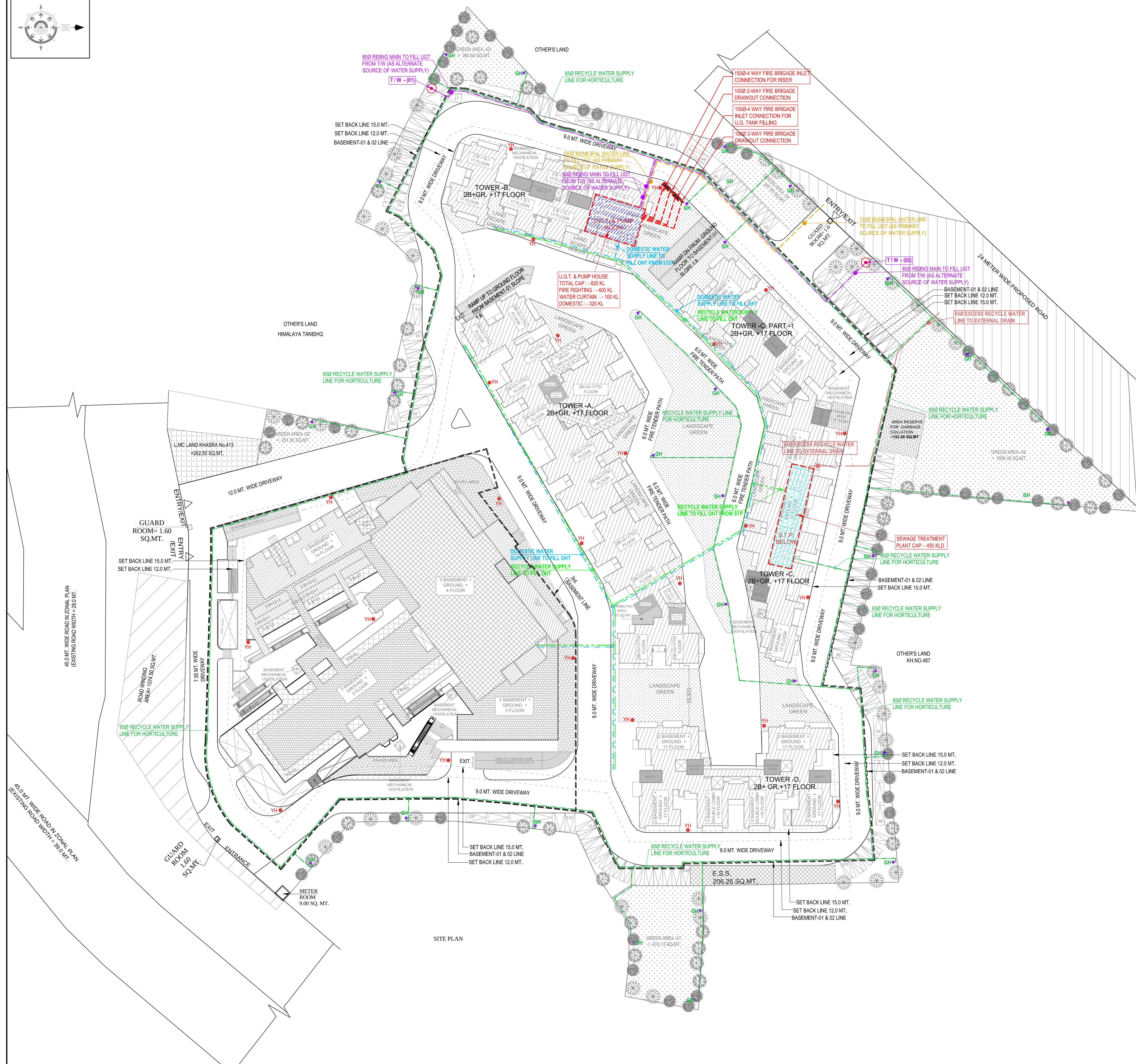
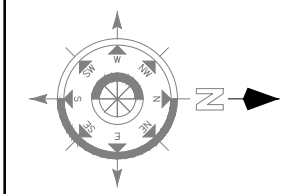


NORTH



WATER REQUIREMENT CALCULATIONS - PLOT A

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	Population (Sales Basement & Street Floors) (Shopping)	8815			3 SqM/person	2940								
2	Population (Upper Sales Floors) (Shopping)	5566			6 SqM/person	930								
3	Permanent Population (Shopping)				@ 10% of total population	390	25	9750	20	7800	17550	7800	7800	15600
4	Transient Population (Shopping)				@ 90% of total population	3480	5	17400	10	34800	52200	13920	34800	48720
5	Apartments			772	5	3860	65	250900	21	81060	331960	200720	81060	281780
6	Service Apartments			77	2	154	65	10010	21	3234	13244	8008	3234	11242
7	Staff					201	25	5018	20	4014	9032	4014	4014	8028
8	Filter Backwash							10000			10000		10000	10000
9	Makeup Water for Swimming Pool							10000			10000			
10	AC Makeup Water									100000	100000			
11	Horticulture	9000	4							36000	36000			
	Total							3,13,078		2,66,908	5,79,986	2,34,462	1,40,908	3,75,370

SUMMARY OF WATER REQUIREMENT / UGT & STP CAPACITY CALCULATION

Description	Water Requirement (KLD)
Domestic Fresh Water Requirement	313
Recycle Water Requirement	287
Flow to Sewer	375
STP Capacity required	375
STP Capacity provided (by adding 20% as per MOEF)	450
STP Capacity rounded off	450
Net water balance (to discharge into drainage system)	108
UGT Capacity	
For Domestic Use (24 hrs storage)	320 KL
For Fire Fighting (as per NBC)	400 KL
For Water Curtain (as per NBC)	100 KL
Total UGT Capacity	820 KL

LEGEND :

S. No.	SYMBOL	DESCRIPTION
1.	---	RISING MAIN LINE (FROM T/W TO U.G.T.)
2.	---	MUNICIPAL WATER SUPPLY PIPE LINE
3.	⊙	PROPOSED TUBE WELL
4.	GH	GARDEN HYDRANT
5.	---	RECYCLED WATER SUPPLY LINE FOR FLUSHING
6.	---	DOMESTIC WATER SUPPLY LINE
7.	---	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

PMAY SCHEME

AT KHASRA No. 408,409,410, 411,423,424,425,426,427
428,429,430,431,432 (M),433(M),434,488,489,490,492,493
VILLAGE :- NOORNAGAR & 31,90,91,191
VILLAGE :- MORTA, GHAZIABAD

title

LAYOUT PLAN (PLOT - A)

subtitle

EXTERNAL WATER SUPPLY SYSTEM

drawing released for

☐ APPROVAL	☒ MUN. SUBMISSION
☐ ADVANCE COPY	☐ CONSTRUCTION

drg. no.	drawn by
MA / 19B05 / PA / ES - 03	Prem Saini

scale	designed by
1 : 550	Badri Vishal

date	checked by
19.06.2019	Anand Havelia

architects

Space Designers International

B-34, SECTOR-67, NOIDA
Ph : +91 9711633717, 18, 19 & 20, Mob: 9811070399, 9811336231
e-mail : spacesdi@gmail.com, www.spacesdi.com

services consultant

Consummate Engineering Services (P) Ltd.

Noida Office : B - 67, Sector - 67, Noida - 201 301
Lko. Office : R 006, Rohtas Plumeria, Gomti Nagar, Lucknow
Tel : (0120) 2303500 (30 Lines)
e mail : mail@cespln, website : www.cespln