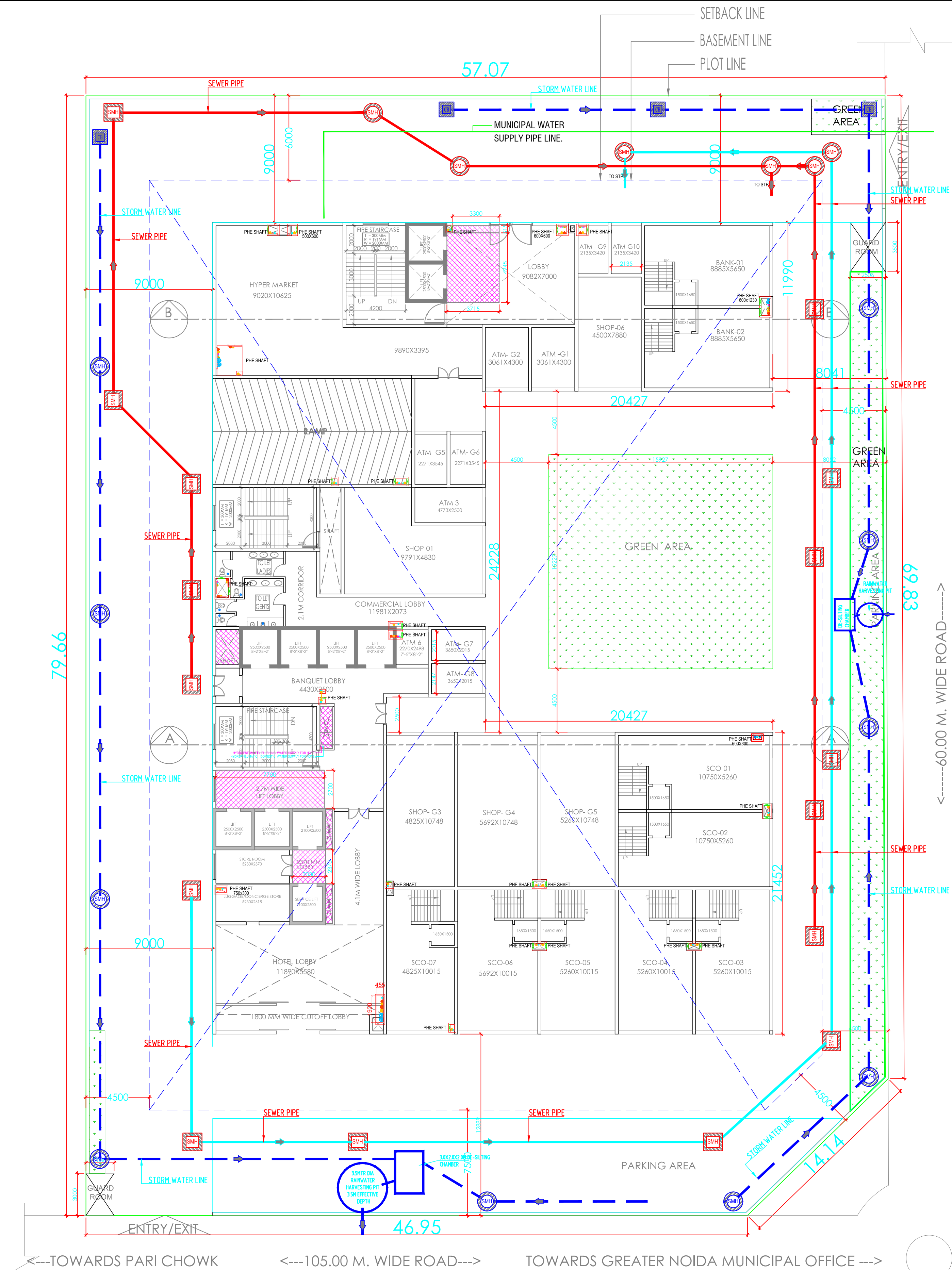




GROUND LEVEL PLAN

TOTAL WATER DEMAND, STP & WATER TANK (Sizes & space requirement)		
For Project—Primrose Square C- 10 , SECTOR - DELTA 1 GREATER Noida, UP		
PLANT ROOM		
I. TOTAL WATER REQUIREMENT	Hotel	Office & Comm
(Refer Water demand sheet for Details of Calculations)		
Total Water Demand		
i Domestic Water Demand	48 KLD	33 KLD
ii Flushing Water Demand	14 KLD	38 KLD
iii Soft Water demand		150 KLD
iv Horticultural Water demand		15 KLD
v Filter backwash and water bodies		20 KLD
Total Water Demand	318 KLD	
II. UNDERGROUND TANK CAPACITIES & AREA REQUIRED		
i UG Fire Static Tank Capacity		400 KL
ii UG Raw Water Tank Capacity (100 KL for Soft Water)		150 KL
iii UG Domestic Tank Capacity		50 KL
Total UG Tanks Required	600 KL	
i Max. Depth of Water Considered		3m(Fire) 4m (others)
ii Area Required for UG Tanks (Incl. for Structure/walls)		300 SQM
Approx. Area Required for UG Tanks (Say)		300 SQM
Approx. Area for Plant Room (Adjacent to UG Tanks)		
Dimension Required (Approx.)		21M X 15M
III. S.T.P. Capacity & sizes		
i Total Domestic/flu Water Requirements	62 KL	71 KL
ii Total Sewerage Generated (Total Domestic x 0.8/Flu. Demand x 1.0)	53 KL	64 KL
S.T.P. Capacity Proposed**	63 KL	77 KL
S.T.P. Capacity (Say)	65 KL	80 KL
Size required (Approx.)	80 Sqm.	100 Sqm.
Dimension Required (Approx.)	8mx10m	10m x 10m
IV. WATER BALANCE AND OTHER DATA		
i Treated effluent available from STP after Recycling	47 KLD	58 KLD
ii Water to be used for Flushing purposes as 1st priority	14 KLD	38 KLD
iii Water to be used for Horticulture purposes as 2nd priority		15 KLD
iv Balance Water available for HVAC purposes		38 KLD
v Total Water Requirements from sources from Day-1 of Startup		318 KLD
vi Net Water Requirements from freshwater sources after STP is fully operational with 100% recycling.		213 KLD
** As per Environmental Requirements STP capacity should be including approx additional 20% of Sewage		

LEGEND :

S. No.	SYMBOL	DESCRIPTION
1.		MANHOLE
2.		SEWER LINE
3.		SEWER LINE
4.		CATCH PIT
5.		STROM WATER
6.		DESILTING TANK
7.		RECHARGE PIT
8.		MUNICIPAL WATER SUPPLY PIPE LINE.

Building Services (MEP) Consultants

SNC

MEP Consulting Engineers

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URL : www.snc.co.in

Delhi Gurgaon Pune

PROJECT :

PRIMROSE SQUARE

Plot No. C-10 ,
Sector - Delta 01, Greater Noida.

OWNER :

SRIGRV INFRATECH PVT. LTD.

7th FLOOR, MSX TOWER - 2 , ALPHA -1 COMMERCIAL
BELT
GREATER NOIDA

ARCHITECTS :

SRIGRV INFRATECH PVT. LTD.

7th FLOOR, MSX TOWER - 2 , ALPHA -1 COMMERCIAL
BELT
GREATER NOIDA

Drawing :

SUBMISSION DRAWING

Sheet Title :

EXTERNAL SEWERAGE SYSTEM

Date:

28-09-2016

Scale:

N.T.S.

OWNER SIGN :

ARCHITECTS SIGN :

SPACE FOR AUTHORITY

DEALT BY

R.K

CHECKED BY

AN

DRAWING NO :

PL-03