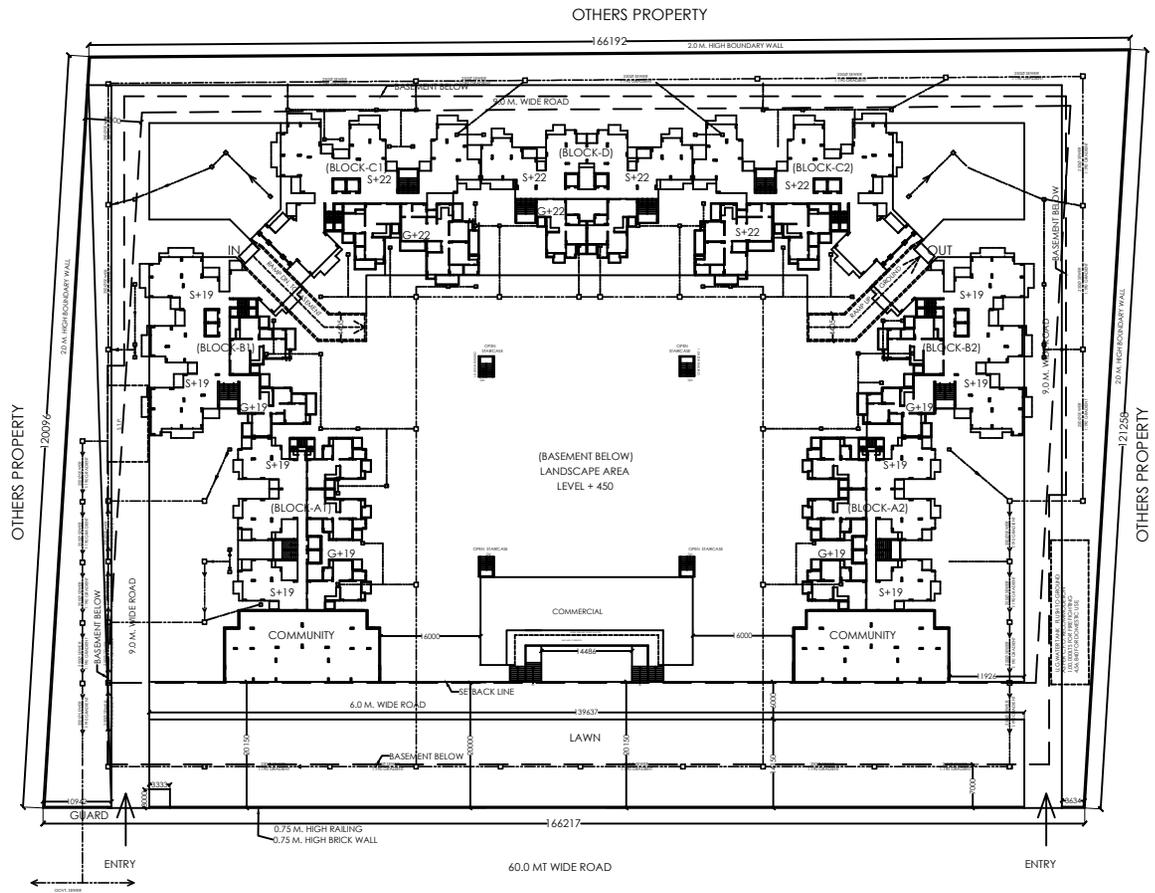


**NOTE:-**  
 250 Ø SEWER LINE 1:190 -----  
 150 Ø SEWER LINE 1:100 -----  
 100 Ø SEWER LINE 1:150 -----

**AREA CALCULATIONS:-**  
 TOTAL PLOT AREA = 20015.90 SQ.M.  
 NUMBER OF DWELLING UNITS = 934.  
 TOTAL POPULATIONS = 4203

**SEWERAGE:-**  
 TOTAL POPULATION = 4203 no.  
 AVG. DISCHARGE @ 135 LIT/HEAD/DAY  
 = 4203X135 = 5,67,405 LIT.  
 PEAK DISCHARGE = 3X5,67,405 = 17,02,215 LIT.  
 SUBSOIL FILTRATION = 45X4203 = 1,89,135 LIT.  
 TOTAL = 18,91,350 LIT.  
 = 4.74 x 10<sup>-3</sup> m /sec.

**CAPACITY OF 250 MM Ø SEWER :-**  
 $S = 1:190, m = \frac{27d^2}{87xd} = d/4 = \frac{0.25}{4}, n = 0.015$   
 $v = 1/n \times m^{2/3} \times 5^{1/2} = \frac{1}{0.015} \times (0.0625)^{2/3} \times \frac{1}{190}^{1/2}$   
 = 0.76 m/sec  
 $c = av = \frac{7d}{8} \times 0.76 = \frac{7}{8} \times \frac{0.25^2}{4} \times 0.76$   
 = 0.0186 cu.m/sec. > 0.00474 cu.m/sec.  
 • 250 mm Ø SEWER PIPE IS O.K.



PROJECT:-  
 GROUP HOUSING FOR  
**M/S JNC CONSTRUCTION PVT. LTD.**  
 PLOT NO.-1C, SECTOR-16 C AT GREATER NOIDA. (U.P.)

SIGNING AUTHORITY  
 ARCHITECTS SIGN

SUBMISSION DRAWING  
 DRG. TITLE:-  
 SERVICE PLAN (SHOWING SEWER LINE)  
 SCALE: 1:400  
 DRG. NO.: 18  
 DATE: 18/05/2014

ARCHITECTS:-  
 M. N. ANDLEY B.ARC.H. F.I.A. F.I.V.  
**ANDLEYS ASSOCIATES PVT. LTD.**  
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