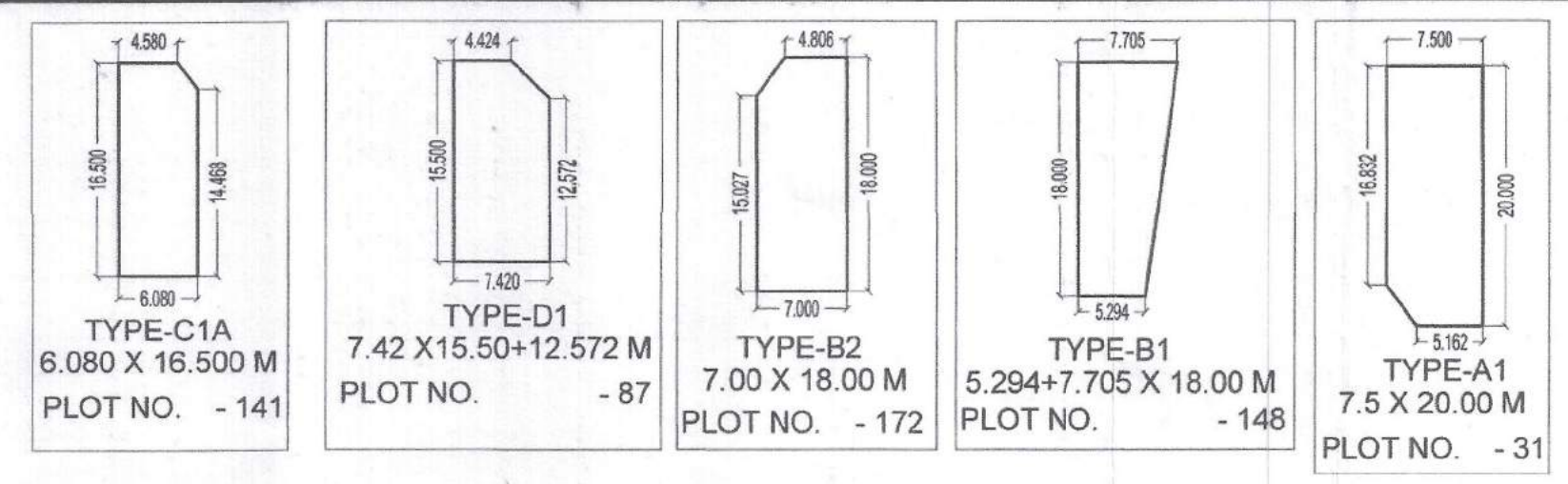
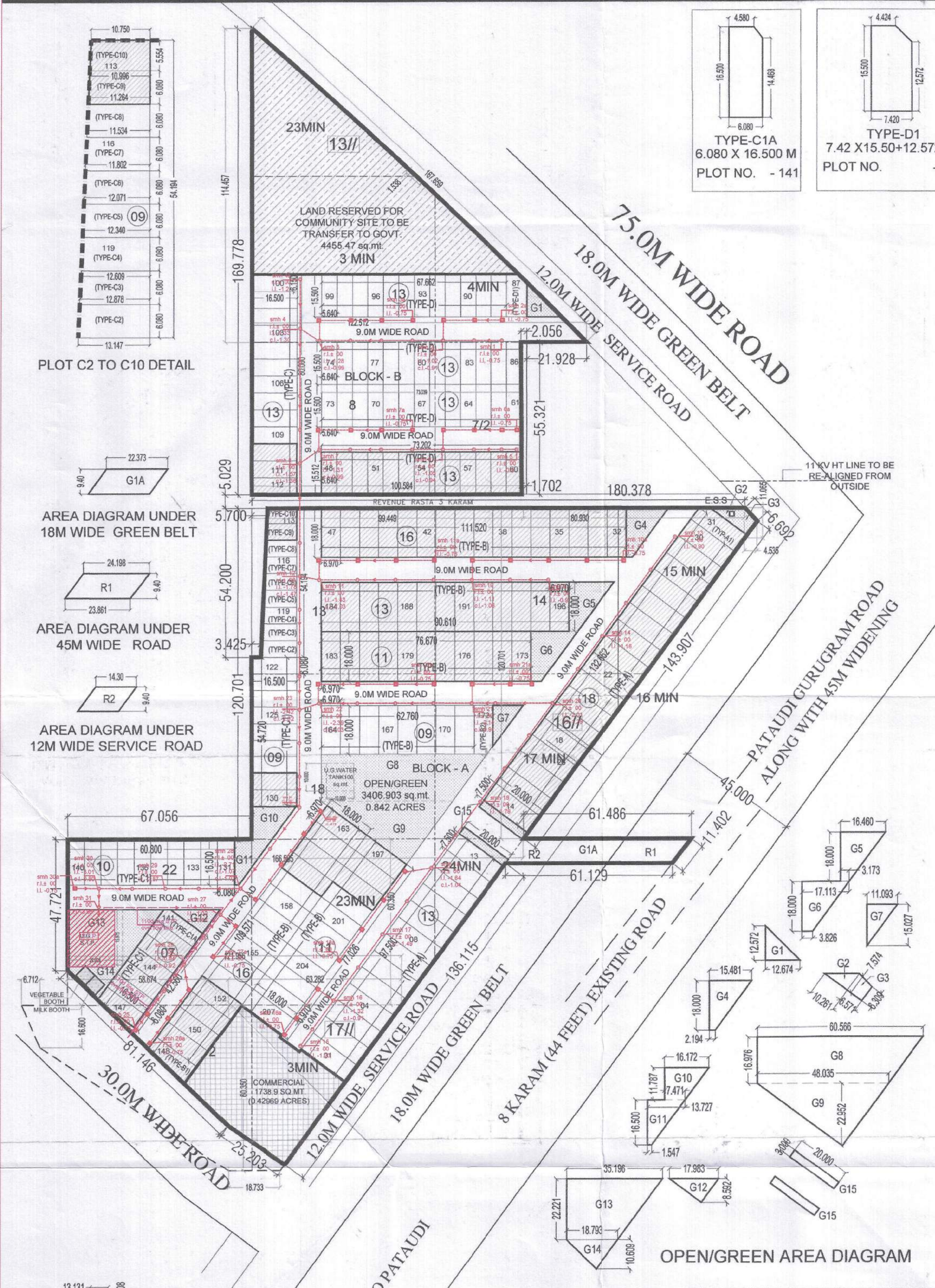


HYDRAULIC DESIGN CHART FOR SEWERAGE									
Node	Diameter	Slope (1 in N)	Levels at Start	Levels at End	Pipe Qty.				
From	To	mm	1:n	RL	IL	RL	IL	200 dia	
1	2	200	175	0.00	-0.90	0.00	-1.02	21.4	
2	3	200	175	0.00	-1.02	0.00	-1.28	45.1	
3	4	200	175	0.00	-0.75	0.00	-0.99	41.9	
4	8	200	200	0.00	-1.20	0.00	-1.30	17.9	
5	6	200	175	0.00	-0.90	0.00	-1.05	27	
6	7	200	175	0.00	-0.75	0.00	-0.94	34	
7	8	200	175	0.00	-1.05	0.00	-1.31	45.1	
8	12	200	200	0.00	-1.31	0.00	-1.36	8.7	
9	10	200	175	0.00	-1.57	0.00	-1.78	41.1	
10	11	200	175	0.00	-0.90	0.00	-1.06	27.9	
11	12	200	175	0.00	-0.75	0.00	-1.11	62.6	
12	23	200	175	0.00	-1.11	0.00	-1.43	55.8	
13	14	200	175	0.00	-0.75	0.00	-1.03	48.8	
14	20	200	225	0.00	-0.90	0.00	-1.16	45	
15	16	200	175	0.00	-1.16	0.00	-1.32	20.5	
16	17	200	175	0.00	-0.75	0.00	-0.91	27.2	
17	18	200	175	0.00	-1.32	0.00	-1.49	30	
18	19	200	200	0.00	-1.49	0.00	-1.64	30	
19	20	200	200	0.00	-1.64	0.00	-1.79	30	
20	21	200	225	0.00	-1.79	0.00	-2.01	44.5	
21	22	200	225	0.00	-2.01	0.00	-2.14	29.5	
22	23	200	225	0.00	-2.14	0.00	-2.39	55.8	
23	24	200	250	0.00	-2.39	0.00	-2.42	7.5	
24	25	200	250	0.00	-2.42	0.00	-2.57	35.5	
25	26	200	250	0.00	-2.57	0.00	-2.71	36.5	
26	27	200	200	0.00	-2.71	0.00	-2.92	29.7	
27	28	200	225	0.00	-2.92	0.00	-3.05	33.5	
28	29	200	225	0.00	-3.05	0.00	-3.20	22.6	
29	30	200	175	0.00	-3.20	0.00	-3.47	20.9	
30	31	200	175	0.00	-3.47	0.00	-3.62	12	
31	32	200	175	0.00	-3.62	0.00	-3.87	46.8	
32	33	200	175	0.00	-3.87	0.00	-4.02	27.3	
33	34	200	175	0.00	-4.02	0.00	-4.27	24.3	
34	35	200	175	0.00	-4.27	0.00	-4.52	8.8	
35	36	200	175	0.00	-4.52	0.00	-4.77	6.8	
36	37	200	175	0.00	-4.77	0.00	-5.02	1.5	



AREA UNDER GREEN BELT					
S.N.O.	NO.	PREFIX	LENGTH	BREATH	AREA
G1	1	1	22.373	9.400	210.306
TOTAL AREA UNDER GREEN BELT					210.306

AREA UNDER 45M WIDE ROAD					
S.N.O.	NO.	PREFIX	LENGTH	BREATH	AREA
R1	1	1	(24.198+23.861)/2	9.400	225.879
TOTAL AREA UNDER 45.0M WIDE ROAD					225.879

AREA UNDER 12M WIDE SERVICE ROAD					
S.N.O.	NO.	PREFIX	LENGTH	BREATH	AREA
R2	1	1	14.300	9.400	134.420
TOTAL AREA UNDER 12M WIDE SERVICE ROAD					134.420

OPEN/GREEN AREA DETAIL					
S.N.O.	NO.	PREFIX	LENGTH	BREATH	AREA
G1	1	0.5	12.674	12.572	79.669
G2	1	0.5	10.261	7.574	38.858
G3	1	(7.574+6.309)/2	6.571	45.613	
G4	1	(2.194+15.481)/2	18.000	159.075	
G5	1	(16.460+3.173)/2	18.000	176.697	
G6	1	(17.113+3.826)/2	18.000	188.451	
G7	1	0.5	11.093	15.027	83.347
G8	1	(60.566+48.035)/2	16.976	921.805	
G9	1	0.5	48.035	22.952	551.250
G10	1	(16.172+7.471)/2	11.787	139.340	
G11	1	(13.727+1.547)/2	16.500	126.011	
G12	1	0.5	17.983	8.592	77.255
G13	1	(35.196+18.793)/2	22.221	599.845	
G14	1	0.5	18.793	10.609	99.687
G15	2	1	20.000	3.000	120.000
TOTAL OPEN / GREEN AREA					3,406.903

FREEZED PLOTS AREA DETAIL					
TYPE	WIDTH	LENGTH	AREA	NO. OF PLOTS	TOTAL AREA UNDER PLOTS
A	7.500	20.000	150.000	17	2,550.000
A1	(AS PER PLINE)		146.290	1	146.290
B	6.970	18.000	125.460	51	6,398.460
B1	(AS PER PLINE)		114.570	1	114.570
C	6.150	16.500	101.475	3	304.425
C1	6.080	16.500	100.320	8	802.560
C1A	(AS PER PLINE)		98.796	1	98.796
C9	(11.264+10.996)/2	6.08	67.670	1	67.670
C10	(10.75+10.996)/2	5.554	60.389	1	60.389
D	5.640	15.500	87.420	13	1,136.460
TOTAL AREA FREEZED					11,679.620
					In acre 2.88610

Total area of land	10.813	43757.947
Area 45mt. under green belt, service road/sector road (1)	0.141	570.605
Area 30mt. wide road (2)	0.475	1920.697
(A) = Net balanced area	10.197	41266.645
(B) = 50% of (1)	0.0705	285.303
(C) = 100% of (2)	0.475	1920.697
TOTAL A+B	10.7423	43472.644

PLOTS AREA DETAIL					
TYPE	WIDTH	LENGTH	AREA	NO. OF PLOTS	TOTAL AREA UNDER PLOTS
A	7.500	20.000	150.000	30	4,500.000
A1	(AS PER PLINE)		146.290	1	146.290
B	6.970	18.000	125.460	74	9,284.040
B1	(AS PER PLINE)		114.570	1	114.570
B2	(AS PER PLINE)		124.350	1	124.350
C	6.150	16.500	101.475	13	1,319.175
C1	6.080	16.500	100.320	25	2,508.000
C1A	(AS PER PLINE)		98.796	1	98.796
C2	(13.147+12.878)/2	6.08	79.116	1	79.116
C3	(12.878+12.609)/2	6.08	77.480	1	77.480
C4	(12.878+12.609)/2	6.08	75.845	1	75.845
C5	(12.34+12.071)/2	6.08	74.209	1	74.209
C6	(12.071+11.802)/2	6.08	72.574	1	72.574
C7	(11.802+11.534)/2	6.08	70.941	1	70.941
C8	(11.534+11.264)/2	6.08	69.305	1	69.305
C9	(11.264+10.996)/2	6.08	67.670	1	67.670
C10	(10.75+10.996)/2	5.554	60.389	1	60.389
D	5.640	15.500	87.420	51	4,458.420
D1	(AS PER PLINE)		110.640	1	110.640
TOTAL AREA UNDER PLOTS					207 23,311.812
					In acre 5.760

SEWER LEGENDS:-		
S.NO.	SYMBOL	DESCRIPTION
1.		SEWER MANHOLE
2.		SEWER MANHOLE 800x900 MM
3.		(DWC SN-4) SEWER PIPE
4.		ROAD LEVEL
5.		INVERT LEVEL
6.		CONNECTION LEVEL
7.		SEWAGE TREATMENT PLANT

- NOTES:
- THE SIZE OF MANHOLE SHALL BE AS UNDER (INNER SIZES)
 - a) UP TO 750 M.M. DEPTH 800x900 M.M. REG. MANHOLE.
 - b) 800 TO 1800 M.M. DEPTH 900 M.M. DIA.
 - c) 1650 TO 2300 M.M. DEPTH 1200 M.M. DIA.
 - d) ABOVE 2300 M.M. DEPTH 1500 M.M. DIA.
 - RUNGS SHALL BE PROVIDED IN EACH MANHOLE WHICH IS DEEPER THAN 800 M.M.
 - THE LEVELS OF SEWER / STORM LINES HAS BEEN WORKED OUT ON THE BASIS OF CERTAIN GROUND LEVEL AND FOR CERTAIN PIPE LENGTHS BETWEEN TWO MANHOLES. THE INVERT LEVELS HAS TO BE STRICTLY FOLLOWED. HOWEVER, THE SLOPE OF LINE MAY BE SLIGHTLY CHANGED.
 - FOR ANY DISCREPANCY / COMMISSION THE MATTER SHOULD REFER TO THE CONSULTANTS BEFORE EXECUTION.
 - MANHOLE SHALL BE PROVIDED AT FOLLOWING PLACES >
 - a) AT THE START OF EACH SEWER LINE.
 - b) AT EVERY JUNCTION AND POSITION WHERE THERE IS CHANGE OF SIZE, GRADIENT AND ALIGNMENT.
 - c) AT NOT MORE THAN 30 METER INTERVAL IN STRAIGHT LENGTH.
 - WHERE THE DIAMETER OF PIPE IS INCREASED THE CROWN OF THE PIPE SHALL BE FIXED AT THE SAME LEVEL AND NECESSARY SLOPE SHALL BE GIVEN IN THE INVERT OF THE MANHOLE CHAMBER.
 - THE STRUCTURAL DESIGN OF MANHOLES / PIPE BEDDING HAS TO BE DONE FOR LOCAL FIELD CONDITIONS SUCH AS FILLED UP SOIL / BLACK COTTON SOIL / HIGH SUB SOIL CONDITIONS. THIS DRAWING SHALL BE READ ALONG WITH THE GROUND FLOOR PLAN OF RESPECTIVE BUILDING FOR EXACT LOCATION OF APPURTENANCES / MAN HOLES ETC.
 - SEWER / STORM LINE UNDER THE ROAD SHALL BE ENCASED AS MENTIONED IN BOQ.
 - MANHOLE COVER SHOULD BE FINISHED WITH FINISHED FORMATION LEVEL AS PER LANDSCAPE DRAWING.
 - WHEREVER ANY CONFLICT IN LEVELS BETWEEN DESIGN SHEET AND NRS / MANHOLE TAG WRITTEN ON DRAWINGS, THEN DESIGN SHEETS LINE & LEVELS SHALL BE CONSIDERED FOR EXECUTION.

LEGEND:-

- COMMERCIAL
- LAND TO BE TRANSFERRED TO GOVT.
- SERVICES
- OPEN/GREEN
- 50% PLOTS FREEZE SHOWN AS

REVISED LAYOUT CUM DEMARCATON PLAN FOR AFFORDABLE PLOTTED COLONY UNDER DEEN DAYAL JAN AWAS YOJNA-2016 OVER AN AREA MEASURING 10.813 ACRES IN THE REVENUE ESTATE OF VILLAGE JANANULA, SECTOR-1, PATAUDI, DISTT. GURUGRAM.

OWNER:-
SUNSAT EDUCATIONAL ACADEMY PVT.LTD.

ARCHITECTURE, INTERIORS, PLANNING
VIKAS AHLAWAT ARCHITECTS

Unit No. 303, Ninex Time Center, Suncity Sector-54, Golf Course Road, Gurgaon
O - 0124-6264203 M - 9869155486 Mail - sr.vikas.ahlawat@gmail.com

OWNERS SIGNATURE: _____ ARCHITECT SIGNATURE: _____

SUNSAT EDUCATION ACADEMY PVT. LTD. DIRECTOR

DRAWING TITLE: REVISED LAYOUT CUM DEMARCATON PLAN

DATE:- JAN.2021 NORTH SHEET NO. 01

For Service Plan Estimate Only

Executive Engineer
HSVP Divn. No. 1,
Gurugram

Superintending Engineer,
HSVP Circle-II, Gurugram

ADDL. CHIEF ENGINEER,
HSVP Gurugram

DIRECTOR

	PERMISSIBLE			PROPOSED		
	AREA ACRES	AREA SQ.MTS.	PERCENTAGE %	AREA ACRES	AREA SQ.MTS.	PERCENTAGE %
Required Open space Area (7.5%)	0.811	3281.846	7.5	0.842	3406.903	7.79
10% area to be transferred free of cost to the govt.	1.081	4375.795	10	1.101	4455.470	10.18
Permissible commercial area	0.4297	1738.906	4	0.42969	1738.900	3.99
Area Under Plots	6.5528	26518.313	61	5.760	23311.812	53.62
Total permissible area	6.9825	28257.219	65	6.192	25050.712	57.25
Permissible Density	240-400 ppa			341.83		
Achieved Density	341.83			ppa		

AREA UNDER 30M WIDE SERVICE ROAD					
S.N.O.	NO.	PREFIX	LENGTH	BREATH	AREA
1	1	0.5	13.131	12.708	83.434
2	1	0.5	27.815	16.512	229.641
3	1	0.5	27.815	10.093	140.368
4	1	(25.553+13.692)/2	61.858	1,213.809	
5	1	0.5	13.692	9.299	63.661
6	1	0.5	25.138	13.440	168.927
7	1	0.5	20.498	2.035	20.857
TOTAL AREA UNDER 30M WIDE ROAD					1,920.697

Checked subject to comments in following letter No. 11/11/21 Dt. 28/04/2021 and notes attached with the estimate

This is a 'PROVISIONAL APPROVED LAYOUT PLAN' Only for Purpose of Inviting Bids from the general public

DRG. NO. DTCP 7762 DATED 03-05-2021

SEWERAGE NETWORK PLAN

(RAM AVTAR BASSI) AD (HQ) (PANKAJ BENIWAL) ATP (HQ) (LALIT KUMAR) DTP (HQ) (HITESH SHARMA) STP (HQ) (JITENDER SHAG) CTP (HR) (KAMRAN PANDURANG, IAS) DTCP (HR)