



- EXTERNAL SEWERAGE NOTES:**
1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.
  2. WRITTEN DIMENSIONS ARE TO BE FOLLOWED. DRAWINGS ARE NOT TO BE SCALED.
  3. PLEASE CO-ORDINATE THIS DRAWING WITH ALL OTHER RELEVANT DRAWINGS OF ALL THE SERVICES.
  4. SHOP DRAWINGS SHALL BE PREPARED BY THE CONTRACTOR AND SUBMITTED IN CASE OF ANY CHANGES IN LAYOUT AS PER SITE CONDITIONS.
  5. ALL LINES SHOWING IN LAYOUT ARE CENTER LINES.
  6. FOR LOCATION OF MANHOLE PLEASE REFER SETTING OUT PLAN ISSUED BY LANDSCAPE CONSULTANT.
  7. INVERT LEVEL/LOCATION AND SIZES OF EXTERNAL SEWER SHALL BE CHECKED AT SITE BEFORE EXECUTION & EXISTING SEWER HIGHER THEN THE PURPOSE INVERT LEVEL PLEASE CONSULTS PROJECT ARCHITECT/CONSULTANTS.
  8. ALL EXTERNAL SEWER LINE (MANHOLE TO MANHOLE CONNECTION) SHALL BE LAID IN DOUBLE WALL CORRUGATED DPC PIPE OF CLASS SN-8
  9. ALL SEWER LINE SHALL BE LAID ON PCC BED.
  10. ALL BURIED PIPES SHALL BE TESTED FOR LEAKAGES AND STRAIGHTNESS AS PER SPECIFICATION.
  11. TRENCH SHALL BE REFILLED ONLY AFTER PIPE TESTING.
  12. THE DEPTH OF MANHOLE SHOULD BE MEASURED FROM F.G.L. - F.G.L.

**SEWERAGE LEGEND:**

S.No.	SYMBOL	DESCRIPTION
1.		SEWERAGE MANHOLE 9000
2.		PROPOSED SEWERAGE LINE
3.		FLOW DIRECTION
4.		SEWERAGE MANHOLE (800/600)

**DESIGN CHART SHOWING OF SEWERAGE SYSTEM**

S.No.	Line No.	Length	Pipe Size(mm)	Slope (1 in)	Friskh Ground Surface Level(m)	Invert Level(m)	Depth(m)	S.No.	Manhole No.	Type of Manhole				
1.	S1	S2	15.00	150	250	0.00	0.00	-0.850	0.910	0.850	0.910	1	S1	A
2.	S2	S3	13.50	150	250	0.00	0.00	-0.910	0.964	0.910	0.964	2	S2	A
3.	S3	S4	13.50	150	250	0.00	0.00	-0.964	1.016	0.964	1.016	3	S3	A
4.	S4	S5	13.50	150	250	0.00	0.00	-1.016	1.070	1.016	1.070	4	S4	A
5.	S5	S6	13.50	150	250	0.00	0.00	-1.070	1.122	1.070	1.122	5	S5	A
6.	S6	S7	22.00	150	250	0.00	0.00	-1.122	1.210	1.122	1.210	6	S6	A
7.	S7	S8	15.00	150	250	0.00	0.00	-1.210	1.278	1.210	1.278	7	S7	A
8.	S8	S9	13.50	150	250	0.00	0.00	-1.278	1.322	1.278	1.322	8	S8	A
9.	S9	S10	13.50	150	250	0.00	0.00	-1.322	1.374	1.322	1.374	9	S9	A
10.	S10	S11	13.50	150	250	0.00	0.00	-1.374	1.428	1.374	1.428	10	S10	A
11.	S11	S12	13.50	150	250	0.00	0.00	-1.428	1.480	1.428	1.480	11	S11	A
12.	S12	S13	11.50	150	250	0.00	0.00	-1.480	1.526	1.480	1.526	12	S12	A
13.	S13	S14	25.00	150	250	0.00	0.00	-1.526	1.626	1.526	1.626	13	S13	A
14.	S14	S15	11.00	150	150	0.00	0.00	-0.950	0.950	0.950	0.950	14	S15	A
15.	S16	S17	13.00	150	250	0.00	0.00	-0.950	1.037	0.950	1.037	15	S16	A
16.	S17	S18	13.00	150	250	0.00	0.00	-1.037	1.102	1.037	1.102	16	S17	A
17.	S18	S19	13.50	150	250	0.00	0.00	-1.102	1.156	1.102	1.156	17	S18	A
18.	S19	S20	13.00	150	250	0.00	0.00	-1.156	1.208	1.156	1.208	18	S19	A
19.	S20	S21	22.00	150	250	0.00	0.00	-1.208	1.296	1.208	1.296	19	S20	A
20.	S21	S22	15.00	150	250	0.00	0.00	-1.296	1.356	1.296	1.356	20	S21	A
21.	S22	S23	13.00	150	250	0.00	0.00	-1.356	1.408	1.356	1.408	21	S22	A
22.	S23	S24	13.00	150	250	0.00	0.00	-1.408	1.460	1.408	1.460	22	S23	A
23.	S24	S25	13.50	150	250	0.00	0.00	-1.460	1.514	1.460	1.514	23	S24	A
24.	S25	S26	13.00	150	250	0.00	0.00	-1.514	1.566	1.514	1.566	24	S25	A
25.	S26	S14	12.00	150	250	0.00	0.00	-1.566	1.614	1.566	1.614	25	S26	A
26.	S14	S27	35.00	150	250	0.00	0.00	-1.626	1.766	1.626	1.766	26	S14	B
27.	S28	S29	13.00	150	250	0.00	0.00	-0.950	0.950	0.950	0.950	27	S28	A
28.	S29	S30	13.00	150	250	0.00	0.00	-0.950	1.037	0.950	1.037	28	S29	A
29.	S30	S31	13.00	150	250	0.00	0.00	-1.037	1.123	1.037	1.123	29	S30	A
30.	S31	S32	13.00	150	250	0.00	0.00	-1.123	1.213	1.123	1.213	30	S31	A
31.	S32	S33	13.00	150	250	0.00	0.00	-1.213	1.300	1.213	1.300	31	S32	A
32.	S33	S34	22.00	150	250	0.00	0.00	-1.300	1.447	1.300	1.447	32	S33	A
33.	S34	S35	15.00	150	250	0.00	0.00	-1.447	1.507	1.447	1.507	33	S34	A
34.	S35	S36	13.00	150	250	0.00	0.00	-1.507	1.597	1.507	1.597	34	S35	A
35.	S36	S37	13.00	150	250	0.00	0.00	-1.597	1.611	1.597	1.611	35	S36	A
36.	S37	S38	13.50	150	250	0.00	0.00	-1.611	1.665	1.611	1.665	36	S37	B
37.	S38	S39	13.00	150	250	0.00	0.00	-1.665	1.717	1.665	1.717	37	S38	B
38.	S39	S27	12.00	150	250	0.00	0.00	-1.717	1.765	1.717	1.765	38	S39	B
39.	S27	S40	25.00	150	250	0.00	0.00	-1.766	1.866	1.766	1.866	39	S27	B
40.	S41	S42	13.00	150	250	0.00	0.00	-0.950	0.950	0.950	0.950	40	S41	A
41.	S42	S43	13.00	150	250	0.00	0.00	-0.950	1.037	0.950	1.037	41	S42	A
42.	S43	S44	13.00	150	250	0.00	0.00	-1.037	1.123	1.037	1.123	42	S43	A
43.	S44	S45	13.50	150	250	0.00	0.00	-1.123	1.213	1.123	1.213	43	S44	A
44.	S45	S46	13.00	150	250	0.00	0.00	-1.213	1.300	1.213	1.300	44	S45	A
45.	S46	S47	22.00	150	250	0.00	0.00	-1.300	1.447	1.300	1.447	45	S46	A
46.	S47	S48	15.00	150	250	0.00	0.00	-1.447	1.547	1.447	1.547	46	S47	A
47.	S48	S49	13.00	150	250	0.00	0.00	-1.547	1.633	1.547	1.633	47	S48	A
48.	S49	S50	13.00	150	250	0.00	0.00	-1.633	1.685	1.633	1.685	48	S49	B
49.	S50	S51	13.50	150	250	0.00	0.00	-1.685	1.739	1.685	1.739	49	S50	B
50.	S51	S52	13.00	150	250	0.00	0.00	-1.739	1.791	1.739	1.791	50	S51	B

**DESIGN CHART SHOWING OF SEWERAGE SYSTEM**

S.No.	Line No.	Length	Pipe Size(mm)	Slope (1 in)	Friskh Ground Surface Level(m)	Invert Level(m)	Depth(m)	S.No.	Manhole No.	Type of Manhole				
51.	S52	S40	12.50	150	250	0.00	0.00	-1.791	1.841	1.791	1.841	51	S52	B
52.	S40	S53	13.50	150	250	0.00	0.00	-1.841	1.896	1.841	1.896	52	S40	B
53.	S54	S55	15.00	150	250	0.00	0.00	-0.850	0.950	0.850	0.950	53	S54	A
54.	S55	S56	13.00	150	250	0.00	0.00	-0.950	1.037	0.950	1.037	54	S55	A
55.	S56	S57	13.00	150	250	0.00	0.00	-1.037	1.123	1.037	1.123	55	S56	A
56.	S57	S58	13.50	150	250	0.00	0.00	-1.123	1.213	1.123	1.213	56	S57	A
57.	S58	S59	13.00	150	250	0.00	0.00	-1.213	1.300	1.213	1.300	57	S58	A
58.	S59	S60	22.00	150	250	0.00	0.00	-1.300	1.447	1.300	1.447	58	S59	A
59.	S60	S61	15.00	150	250	0.00	0.00	-1.447	1.547	1.447	1.547	59	S60	A
60.	S61	S62	13.00	150	250	0.00	0.00	-1.547	1.633	1.547	1.633	60	S61	A
61.	S62	S63	13.00	150	250	0.00	0.00	-1.633	1.720	1.633	1.720	61	S62	B
62.	S63	S64	13.50	150	250	0.00	0.00	-1.720	1.810	1.720	1.810	62	S63	B
63.	S64	S65	13.00	150	250	0.00	0.00	-1.810	1.897	1.810	1.897	63	S64	B
64.	S65	S66	12.00	150	250	0.00	0.00	-1.897	1.977	1.897	1.977	64	S65	B
65.	S66	S67	25.00	150	250	0.00	0.00	-0.850	0.950	0.850	0.950	65	S66	B
66.	S67	S68	15.00	150	250	0.00	0.00	-0.950	1.037	0.950	1.037	66	S67	A
67.	S68	S69	13.00	150	250	0.00	0.00	-1.037	1.123	1.037	1.123	67	S68	A
68.	S69	S70	13.00	150	250	0.00	0.00	-1.123	1.213	1.123	1.213	68	S69	A
69.	S70	S71	13.50	150	250	0.00	0.00	-1.213	1.300	1.213	1.300	69	S70	A
70.	S71	S72	13.00	150	250	0.00	0.00	-1.300	1.387	1.300	1.387	70	S71	A
71.	S72	S73	22.00	150	250	0.00	0.00	-1.447	1.547	1.447	1.547	71	S72	A
72.	S73	S74	13.00	150	250	0.00	0.00	-1.547	1.633	1.547	1.633	72	S73	A
73.	S74	S75	13.00	150	250	0.00	0.00	-1.633	1.720	1.633	1.720	73	S74	A
74.	S75	S76	13.50	150	250	0.00	0.00	-1.720	1.810	1.720	1.810	74	S75	B
75.	S76	S77	13.00	150	250	0.00	0.00	-1.810	1.897	1.810	1.897	75	S76	B
76.	S77	S78	13.00	150	250	0.00	0.00	-1.897	1.977	1.897	1.977	76	S77	B
77.	S78	S79	12.00	150	250	0.00	0.00	-1.977	2.057	1.977	2.057	77	S78	B
78.	S79	S80	13.00	150	250	0.00	0.00	-2.057	2.146	2.057	2.146	78	S79	B
79.	S80	S81	15.00	150	250	0.00	0.00	-0.850	0.950	0.850	0.950	79	S80	A
80.	S81	S82	13.00	150	250	0.00	0.00	-0.950	1.037	0.950	1.037	80	S81	A
81.	S82	S83	13.00	150	250	0.00	0.00	-1.037	1.123	1.037	1.123	81	S82	A
82.	S83	S84	13.50	150	250	0.00	0.00	-1.123	1.213	1.123	1.213	82	S83	A
83.	S84	S85	13.00	150	250	0.00	0.00	-1.213	1.300	1.213	1.300	83	S84	A
84.	S85	S86	22.00	150	250	0.00	0.00	-1.300	1.447	1.300	1.447	84	S85	A
85.	S86	S87	15.00	150	250	0.00	0.00	-1.447	1.547	1.447	1.547	85	S86	A
86.	S87	S88	13.00	150	250	0.00	0.00	-1.547	1.633	1.547	1.633	86	S87	A
87.	S88	S89	13.00	150	250	0.00	0.00	-1.633	1.720	1.633	1.720	87	S88	B
88.	S89	S90	13.50	150	250	0.00	0.00	-1.720	1.810					