LIST OF POINTS

Sl No.	MANHOLE ID	DRAIN Closed(C) /Open(O)	MSL LEVEL Drain Top(m)	MSL LEVEL Invert (m)	MSL LEVEL Road Edge (m)	DRAIN DIMENSIONS Width (m)	DRAIN DIMENSIONS Depth (m)
1	A1 (OL)	C	10.976	–	10.941	–	–
2	A2	C	9.532	8.582	9.526	1.090	0.670
3	A3	C	11.256	10.066	11.163	0.980	0.910
4	A4	C	11.616	10.716	11.452	0.880	0.690
5	B1 (OL)	C	10.072	–	10.073	–	–
6	B2	C	10.589	–	10.676	–	–
7	B3	C	11.704	–	11.865	–	–
8	B4	C	12.073	10.823	12.194	1.230	1.000
9	C1 (OL)	C	10.810	10.510	10.512	0.900	0.150
10	C2	C	10.135	8.955	10.157	1.130	0.960
11	C3	C	10.446	9.395	10.454	0.960	0.801
12	C4	C	10.917	–	10.907	–	–
13	C5	C	10.364	9.414	10.375	0.850	0.700
14	C6	C	10.570	9.870	10.565	0.880	0.550
15	C7	C	10.685	–	10.678	–	–
16	C8	C	10.434	9.554	10.429	0.920	0.748
17	C9	C	10.468	9.568	10.475	1.000	0.600
18	C10	C	9.944	9.194	9.958	1.080	0.500
19	C11	C	10.676	9.546	10.718	1.260	0.930
20	C12	C	10.670	9.620	10.559	1.161	0.789
21	C13	C	10.320	9.320	10.181	1.270	0.800
22	D1 (OL)	C	10.352	9.182	11.045	1.120	0.950
23	D2	C	11.118	8.768	11.117	1.120	1.490
24	D3	C	11.336	8.886	11.343	1.140	1.460
25	D4	C	10.705	8.985	10.678	1.220	1.200
26	D5	C	10.844	–	10.727	–	–
27	D6	C	10.769	9.419	10.830	1.110	1.070
28	D7	C	10.499	–	10.433	–	–
29	D8	C	10.160	9.360	10.135	0.810	0.670
30	E1 (OL)	C	9.897	8.114	10.711	2.953	1.532
31	E2	C	10.453	8.298	10.477	1.351	2.033
32	E3	C	10.354	9.433	10.409	0.853	0.798
33	E4	C	10.038	9.295	10.021	0.781	0.542
34	E5	C	12.591	10.876	12.459	0.903	1.505
35	E6	C	12.717	11.427	12.534	0.605	1.164
36	E7	C	12.281	11.396	12.078	0.710	0.675
37	E8	C	12.222	11.941	12.075	0.721	0.086
38	E9	C	9.906	9.335	9.940	0.453	0.443
39	E10	C	10.106	8.096	10.121	1.390	1.820
40	E11	C	6.762	–	6.760	–	–
41	E12	C	9.855	8.843	9.822	0.851	0.887
42	E13	C	10.283	9.258	10.297	0.835	0.894
43	E14	C	9.934	8.223	9.965	1.251	0.461
44	E15	C	10.160	9.007	10.034	0.981	1.022
45	E16	C	10.067	9.267	9.942	1.250	0.580
46	E17	C	10.187	9.287	10.169	0.900	0.700
47	E18	C	10.188	9.138	10.079	1.230	0.810
48	E19	C	10.403	9.353	10.361	1.114	0.850
49	E20	C	10.008	9.258	9.877	1.260	0.570
50	E21	C	10.432	8.690	10.442	1.303	1.621
51	E22	C	10.452	8.772	10.448	1.255	1.555
52	E23	C	10.041	8.701	10.053	1.105	1.205
53	E24	C	10.014	8.493	9.961	1.102	1.201
54	E25	C	10.014	8.962	10.201	1.115	0.851
55	E26	C	10.124	–	10.230	–	–
56	E27	C	9.753	8.767	9.822	0.801	0.855
57	E28	C	10.232	9.271	10.184	0.820	0.826
58	E29	C	11.140	9.349	11.112	1.255	1.671
59	E30	C	11.467	–	11.454	–	–
60	E31	C	10.959	9.570	10.977	0.985	1.238
61	E32	C	10.930	9.689	10.890	1.021	1.113
62	E33	C	11.364	9.984	11.273	1.120	1.259
63	E34	C	11.548	10.597	11.390	0.553	0.773
64	F1 (OL)	C	10.961	10.473	11.109	0.350	0.308
65	F2	C	12.368	11.986	12.521	0.350	0.202
66	F3	C	12.389	11.589	12.237	0.830	0.620
67	F4	C	11.661	–	11.636	0.350	–
68	F5	C	11.792	–	11.511	–	–
69	F6	C	11.384	–	11.172	–	–
70	G1 (OL)	C	8.061	7.609	8.120	0.350	0.302
71	G2	C	11.619	11.307	11.571	0.350	0.162
72	G3	C	12.029	–	–	–	–
73	H1 (OL)	C	6.588	5.508	7.029	1.000	0.830
74	H2	C	8.181	–	8.046	–	–
75	H3	C	11.704	–	11.584	–	–
76	H4	C	11.752	–	11.690	–	–
77	H5	C	8.246	7.546	8.200	0.350	0.450
78	H6	C	11.688	11.188	11.692	0.300	0.500
79	H7	C	11.756	11.446	11.894	0.300	0.310
80	H8	C	8.318	7.468	8.197	0.330	0.600
81	H9	C	12.040	11.735	11.899	0.320	0.305
82	I1 (OL)	C	10.948	9.747	10.812	1.650	0.400
83	I2	C	10.431	9.444	10.663	0.901	0.836
84	I3	C	11.991	–	12.046	–	–
85	I4	C	12.044	11.222	–	0.350	0.642
86	I5	C	10.551	–	10.490	–	–
87	I6	C	11.897	–	11.927	–	–
88	J1 (OL)	C	11.157	–	11.101	–	–
89	J2	C	11.299	10.148	11.339	0.801	0.900
90	J3	C	11.398	10.197	11.324	0.651	0.960
91	J4	C	11.462	10.681	11.474	0.612	0.653
92	J5	C	11.490	10.488	11.335	0.612	0.820
93	J6	C	11.516	10.085	11.460	0.610	1.279
94	J7	C	11.257	10.536	11.238	0.502	0.619
95	J8	C	11.164	10.194	11.339	0.920	0.849
96	J9	C	11.213	10.412	11.114	0.891	0.672
97	J10	C	11.217	9.217	11.205	1.500	1.700
98	J11	C	11.254	9.249	11.337	1.700	1.730
99	J12	C	11.474	9.196	11.492	1.500	2.058
100	J13	C	11.508	–	11.529	–	–
101	J14	C	11.763	10.705	11.858	1.235	0.838
102	J15	C	11.428	10.350	11.370	1.400	0.658
103	J16	C	11.312	10.062	11.276	0.800	1.030
104	J17	C	11.348	10.393	11.319	1.200	0.835

LIST OF POINTS

Sl No.	MANHOLE ID	DRAIN Closed(C) /Open(O)	MSL LEVEL Drain Top(m)	MSL LEVEL Invert (m)	MSL LEVEL Road Edge (m)	DRAIN DIMENSIONS Width (m)	DRAIN DIMENSIONS Depth (m)
105	J18	C	11.534	10.534	11.421	0.800	0.845
106	J19	C	11.845	–	11.464	–	–
107	J20	C	11.455	10.405	11.285	0.820	0.850
108	J21	C	11.345	–	11.288	–	–
109	J22	C	11.414	–	11.254	–	–
110	J23	C	11.614	–	11.509	–	–
111	J24	C	11.631	10.846	11.478	1.000	0.605
112	J25	C	11.665	10.947	11.650	0.350	0.438
113	J26	C	11.876	10.356	11.906	1.200	1.300
114	J27	C	12.025	–	11.911	–	–
115	J28	C	11.455	–	11.316	–	–
116	J29	C	11.707	10.799	11.641	1.400	0.688
117	J30	C	12.111	10.701	12.022	1.400	1.130
118	J31	C	11.506	–	11.363	–	–
119	J32	C	11.168	–	11.313	–	–
120	J33	C	11.234	–	11.133	–	–
121	J34	C	11.482	–	11.336	–	–
122	J35	C	11.423	10.943	11.396	0.450	0.390
123	J36	C	11.516	–	11.500	–	–
124	J37	C	11.664	10.684	11.637	0.850	0.800
125	J38	C	11.484	10.922	11.340	0.310	0.342
126	J39	C	11.917	–	11.949	–	–
127	J40	C	11.765	–	11.637	–	–
128	J41	C	11.758	–	11.845	–	–
129	K1	C	11.361	10.861	11.552	1.050	0.150
130	K2	C	11.344	–	11.416	–	–
131	K3	C	11.631	–	11.548	–	–
132	K4	C	12.034	–	11.736	–	–

LEGEND

Drain Outlet

Drain With Reverse Gradient

"–" : Manhole's Inside not Accessible

SCALE 1 : 5,000

250m 200 150 100 50 0 250 500m

1CM=50m

PROJECTION:
The metric grid on this sheet is the UTM grid, Zone 44 N, WGS 84 Spheroid, M.S.L. Datum. All Dimensions are in Metres.

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SHEET HISTORY:
Base map compiled from the details/data provided by Greater Chennai Corporation (GCC) Surveyed between 6th January to 10th January 2021

Produced for the Project of Real Time Flood Forecasting and Spatial Decision Support System For Chennai by SECON-JBA under the World Bank funded Project Development Grant Fund (PDGF).

Control Point Located on Ward–90

S11 13°05'14.672"N 80°11'44.277"E

WARDS OF GCC AREA

INDEX OF GCC & ULB's AREA

KEY PLAN

LIST OF CONTROL POINTS

Sl. No.	Point No.	Latitude	Longitude	Easting(m)	Northing(m)	MSL RL(m)	Remarks
1	T111	13°05'14.672"N	80°11'44.277"E	412801.334	1446940.600	10.61	On top of Drain RCC Basement

Roads: main; others; mud. Cart track.

Temple. Chhatri. Shrine. Mosque. Idgah. Tomb. Church.

Railways: broad gauge with station; bridge; metro.

Boundary: state; district; taluk.

Boundary: CMA; zone; ward.

Roads: without drain; with oneside drain; with both side drain.

Road with reverse gradient drain.

Spaced names: locality; village.

A L W A R P E T Kolathur

Drains: stormwater; feeder with flow direction. Invert level.

Canal. Outlet.Inundated area by privious flood,.

Bridge with piers. Culvert. Flyover. Subway. Sewage line.

River:dry with water channel; with island & rocks.Tidal river.

Streams: perennial; non perennial; Single line: defined. Tank.

Rain water Harvesting.Stormwater pumping station.

CLIENT	GREATER CHENNAI CORPORATION (GCC) REPRESENTING COMMISSIONERATE OF REVENUE ADMINISTRATION AND DISASTER MANAGEMENT		
FUNDED BY	PROJECT DEVELOPMENT GRANT FUND (PDGF) (Managed by Tamil Nadu Urban Infrastructure Financial Services Limited)		
PROJECT	PLANNING, SETTING UP AND OPERATIONALIZING REAL TIME FLOOD FORECASTING SPATIAL DECISION SUPPORT SYSTEM FOR CHENNAI		
TITLE	BASE MAP - STORM WATER DRAIN WARD No. 93, ZONE VII - AMBATTUR		
PROJECT CONSULTANTS	SECON - JBA Consulting (India) (U.K.) JV		
SHEET No. 31 OF 114	SCALE 1:5000	DRAWING No. CFM/SWD/WARD–31	REV. 0