LIST OF POINTS

SI No.	MANHOLE ID	DRAIN Closed(C) /Open(O)	MSL LEVEL			DRAIN DIMENSIONS	
			Drain Top(m)	Invert (m)	Road Edge (m)	Width (m)	Depth (m)
1	A1 (OL)	C	9.799	8.484	9.628	1.721	0.890
2	A2	C	9.351	8.136	9.155	1.657	0.790
3	A3	C	8.974	7.364	8.842	1.720	1.290
4	A4	C	9.072	7.652	8.852	1.810	0.930
5	A5	C	10.148	8.628	9.823	1.710	1.100
6	A6	C	10.207	–	9.911	–	–
7	A7	C	9.640	8.120	9.624	1.300	1.200
8	A8	C	9.768	8.358	9.590	1.540	1.100
9	A9	C	9.808	–	9.620	–	–
10	A10	C	10.326	–	9.888	–	–
11	A11	C	9.779	8.959	9.603	1.100	0.710
12	A12	C	10.357	–	10.188	–	–
13	A13	C	10.370	10.060	10.206	0.430	0.200
14	A14	C	11.805	–	11.828	–	–
15	A15	C	12.582	11.662	12.319	1.050	0.710
16	A16	C	13.052	11.912	12.901	0.830	1.050
17	A17	C	12.689	11.679	12.653	0.810	0.900
18	A18	C	9.566	–	9.550	–	–
19	A19	C	10.387	9.707	10.299	0.510	0.570
20	A20	C	10.487	9.707	10.346	0.640	0.670
21	A21	C	10.361	9.581	10.252	0.790	0.660
22	A22	C	10.320	–	10.128	–	–
23	A23	C	10.986	10.076	10.965	0.490	0.730
24	A24	C	11.102	10.272	10.837	0.510	0.710
25	A25	C	11.543	11.033	11.507	0.810	0.350
26	A26	C	10.931	–	10.439	–	–
27	A27	C	10.749	–	10.777	–	–
28	A28	C	11.309	10.599	11.365	0.730	0.600
29	A29	C	10.780	9.960	10.717	0.490	0.680
30	A30	C	10.765	10.255	10.530	0.610	0.380
31	A31	C	10.111	9.241	9.918	0.610	0.760
32	A32	C	9.725	–	9.679	–	–
33	A33	C	10.377	9.757	10.090	0.680	0.500
34	A34	C	10.743	9.913	10.573	0.710	0.710
35	A35	C	10.122	9.542	10.070	0.420	0.440
36	A36	C	10.305	9.695	10.178	0.440	0.610
37	A37	C	10.284	9.674	10.034	0.410	0.500
38	A38	C	10.782	10.372	10.630	0.310	0.340
39	A39	C	10.851	10.031	10.696	0.710	0.710
40	A40	C	10.874	–	10.692	–	–
41	A41	C	9.983	8.603	9.842	1.100	1.120
42	A42	C	11.785	10.695	11.649	0.920	0.850
43	A43	C	12.626	–	12.496	–	–
44	A44	C	12.541	11.691	12.354	0.850	0.740
45	A45	C	13.029	11.929	12.918	0.840	0.960
46	A46	C	12.898	12.188	12.871	0.710	0.600
47	A47	C	12.878	11.918	12.687	0.840	0.850
48	A48	C	13.970	13.460	13.929	0.490	0.400
49	A49	C	13.196	12.516	13.114	0.810	0.570
50	A50	C	13.190	12.780	13.214	0.540	0.330
51	A51	C	13.299	–	13.200	–	–
52	A52	C	13.318	12.838	13.268	0.590	0.270
53	A53	C	13.826	12.986	13.527	0.980	0.650
54	A54	O	14.085	–	13.958	–	–
55	A55	C	13.744	–	13.529	–	–
56	A56	O	13.831	13.621	13.827	0.210	0.210
57	A57	O	14.489	13.669	14.323	0.610	0.820
58	A58	O	14.021	13.541	14.098	0.910	0.370
59	A59	O	13.627	13.317	13.762	0.210	0.310
60	A60	O	13.957	13.647	13.884	0.320	0.310
61	A61	C	14.261	13.741	14.175	0.320	0.520
62	A62	C	13.672	13.462	13.587	0.540	0.090
63	A63	C	13.624	13.164	13.550	0.620	0.340
64	A64	C	12.533	11.913	12.427	0.720	0.510
65	A65	C	12.665	12.255	12.580	0.680	0.010
66	A66	C	13.138	12.188	12.869	0.710	0.840
67	A67	C	12.881	12.201	12.788	0.640	0.590
68	A68	C	12.727	11.917	12.655	0.810	0.600
69	A69	C	12.654	11.944	12.675	0.780	0.600
70	A70	C	13.812	13.072	13.819	0.680	0.630
71	A71	C	14.071	13.491	14.147	0.780	0.180
72	A72	C	14.489	13.949	14.388	0.340	0.420
73	A73	C	13.610	12.990	13.634	0.520	0.500
74	A74	C	14.433	13.863	14.382	0.780	0.450
75	A75	C	11.957	11.287	11.872	0.840	0.540
76	A76	C	12.617	12.507	12.657	0.680	0.110
77	A77	C	11.999	11.259	11.856	0.830	0.580
78	A78	C	12.300	11.790	12.301	0.790	0.390
79	A79	C	12.779	12.439	12.555	0.780	0.220
80	A80	C	10.469	9.414	10.338	0.751	0.840

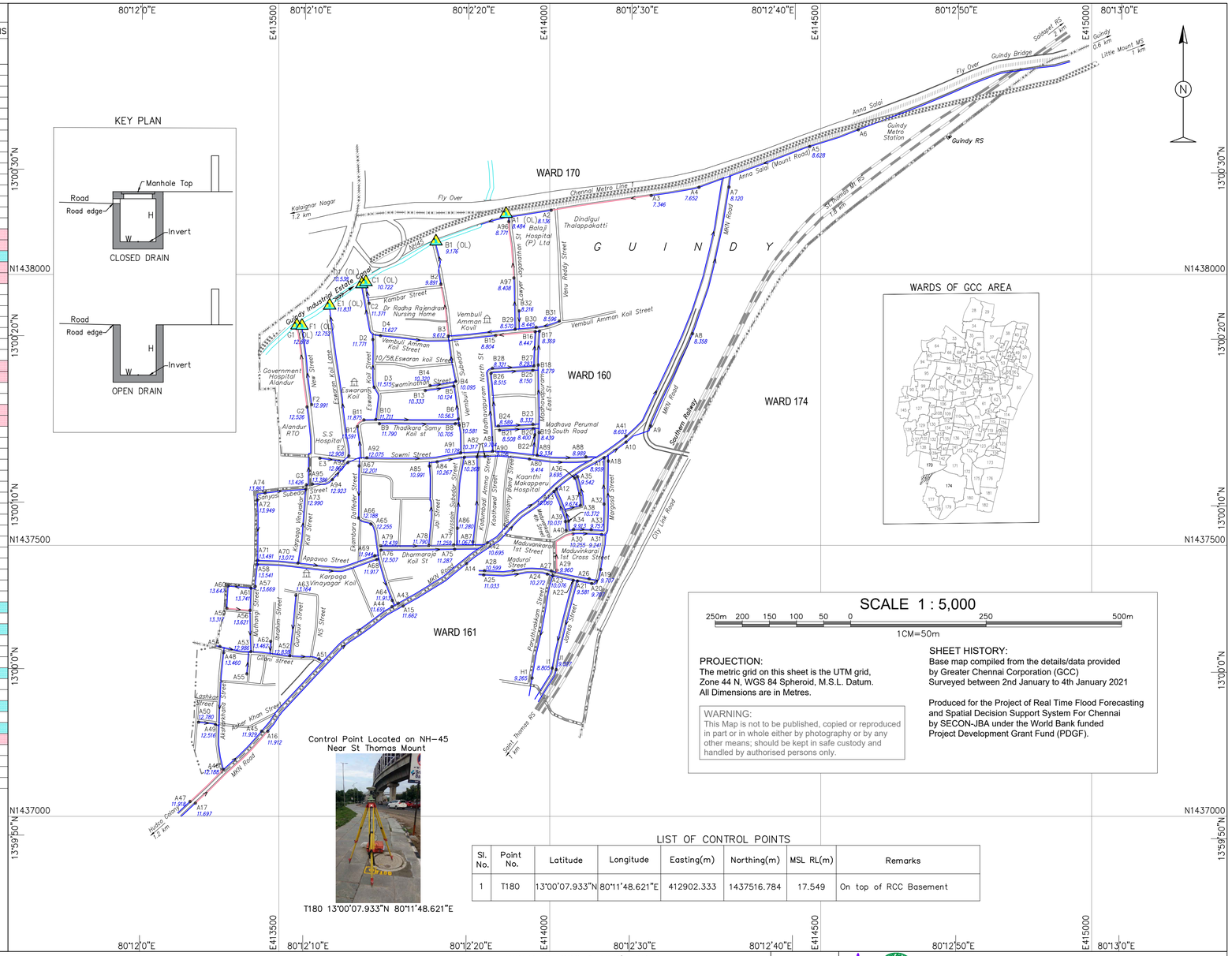
LIST OF POINTS

SI No.	MANHOLE ID	DRAIN Closed(C) /Open(O)	MSL LEVEL			DRAIN DIMENSIONS	
			Drain Top(m)	Invert (m)	Road Edge (m)	Width (m)	Depth (m)
81	A81	C	10.744	9.704	10.588	0.720	0.970
82	A82	C	10.727	10.317	10.671	0.760	0.320
83	A83	C	11.098	10.268	10.838	0.680	0.690
84	A84	C	11.317	10.267	11.118	0.610	0.940
85	A85	C	11.771	10.991	11.754	0.670	0.590
86	A86	C	11.890	11.280	11.896	0.540	0.490
87	A87	C	11.827	11.067	11.779	0.780	0.620
88	A88	C	10.004	8.989	9.944	1.056	0.759
89	A89	C	10.190	9.334	10.044	1.005	0.641
90	A90	C	9.921	9.156	9.785	0.785	0.580
91	A91	C	11.078	10.178	10.836	0.590	0.750
92	A92	C	12.685	12.075	12.443	0.780	0.470
93	A93	C	13.377	12.867	13.296	0.780	0.380
94	A94	C	13.343	12.923	13.269	0.780	0.300
95	A95	C	13.706	13.386	13.716	0.720	0.200
96	A96	C	9.527	8.771	9.443	0.625	0.601
97	A97	C	9.159	8.408	8.955	0.621	0.599
98	B1 (OL)	C	10.791	9.176	10.525	1.325	0.690
99	B2	C	10.656	9.891	10.592	0.685	0.584
100	B3	C	10.377	9.612	10.301	0.725	0.514
101	B4	C	10.856	10.095	10.724	0.765	0.580
102	B5	C	10.880	10.124	10.718	0.821	0.567
103	B6	C	11.403	10.563	11.268	0.720	0.360
104	B7	C	11.271	10.581	11.090	0.610	0.570
105	B8	C	11.185	10.705	11.202	0.510	0.370
106	B9	C	12.310	11.790	12.120	0.610	0.410
107	B10	C	12.201	11.711	12.086	0.610	0.370
108	B11	C	12.295	11.875	12.113	0.590	0.310
109	B12	C	12.531	11.591	12.326	0.610	0.830
110	B13	C	11.154	10.333	11.097	0.785	0.635
111	B14	C	11.185	10.320	11.023	0.625	0.650
112	B15	C	9.655	8.804	9.595	0.810	0.636
113	B16	C	9.232	8.447	9.167	0.856	0.580
114	B17	C	9.134	8.369	9.077	0.905	0.560
115	B18	C	9.135	8.279	9.049	0.951	0.641
116	B19	C	9.190	8.439	9.188	0.915	0.566
117	B20	C	9.251	8.400	9.332	0.915	0.636
118	B21	C	9.309	8.508	9.197	0.856	0.616
119	B22	C	9.198	–	9.167	–	–
120	B23	C	9.253	8.332	9.256	0.851	0.670
121	B24	C	9.344	8.589	9.319	0.815	0.499
122	B25	C	9.135	8.150	9.114	0.951	0.770
123	B26	C	9.371	8.515	9.148	0.915	0.641
124	B27	C	9.144	8.293	9.086	0.651	0.700
125	B28	C	9.136	8.321	8.996	0.675	0.610
126	B29	C	9.391	8.570	9.277	0.851	0.606
127	B30	C	9.310	8.445	9.157	0.925	0.608
128	B31	C	9.361	8.596	9.179	0.815	0.550
129	B32	C	9.073	8.216	8.886	0.756	0.652
130	C1 (OL)	C	11.507	10.722	11.465	0.751	0.584
131	C2	C	11.827	11.371	11.717	0.721	0.456
132	D1 (OL)	C	11.779	10.538	11.626	1.345	0.885
133	D2	C	12.572	11.771	12.287	0.756	0.616
134	D3	C	12.266	11.515	12.193	0.765	0.536
135	D4	C	12.494	11.627	12.320	0.785	0.742
136	E1 (OL)	C	12.611	11.831	12.454	0.640	0.670
137	E2	C	13.518	12.908	13.376	0.840	0.470
138	E3	C	13.515	–	13.554	–	–
139	F1 (OL)	C	13.532	12.752	13.489	0.590	0.640
140	F2	C	13.411	12.991	13.217	0.720	0.300
141	G1 (OL)	C	13.768	12.878	13.655	0.640	0.780
142	G2	C	13.506	12.526	13.341	0.840	0.870
143	G3	C	14.016	13.426	13.892	0.840	0.460
144	H1	C	10.055	9.265	10.008	0.610	0.650
145	I1	C	9.485	8.805	9.384	0.510	0.520
146	J1	C	9.537	9.027	9.391	0.480	0.330

LEGEND

- Drain Outlet
- Drain With Reverse Gradient
- "–" : Manhole's Inside not Accessible

KEY PLAN



WARDS OF GCC AREA

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.

WARNING:
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SHEET HISTORY:
Base map compiled from the details/data provided by Greater Chennai Corporation (GCC) Surveyed between 2nd January to 4th 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).

LIST OF CONTROL POINTS

Sl. No.	Point No.	Latitude	Longitude	Easting(m)	Northing(m)	MSL RL(m)	Remarks
1	T180	13°00'07.933"N	80°11'48.621"E	412902.333	1437516.784	17.549	On top of RCC Basement

Roads: main; others; mud. Cart track.

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

Railways: broad gauge with station; bridge; metro.

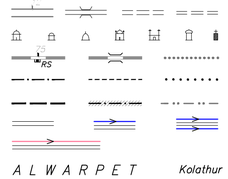
Boundary: state; district; taluk.

Boundary: CMA; zone; ward.

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

Road with reverse gradient drain.

Spaced names: locality; village.



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

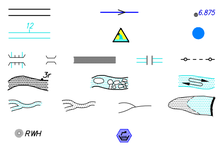
Canal. Outlet.Inundated area by privious flood,.

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

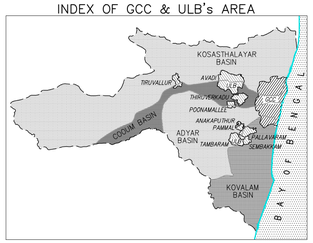
River:dry with water channel; with island & rocks.Tidal river.

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

Rain water Harvesting.Stormwater pumping station.



INDEX OF GCC & ULB's AREA



CLIENT	GREATER CHENNAI CORPORATION (GCC) REPRESENTING COMMISSIONERATE OF REVENUE ADMINISTRATION AND DISASTER MANAGEMENT	
FUNDED BY	TNUIFSL	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. 160, ZONE XII - ALANDUR	
PROJECT CONSULTANTS	SECON - JBA Consulting (India) (U.K.) JV	
SHEET No. 46 OF 114	SCALE 1:5000	DRAWING No. CFM/SWD/WARD–46 REV. 0