

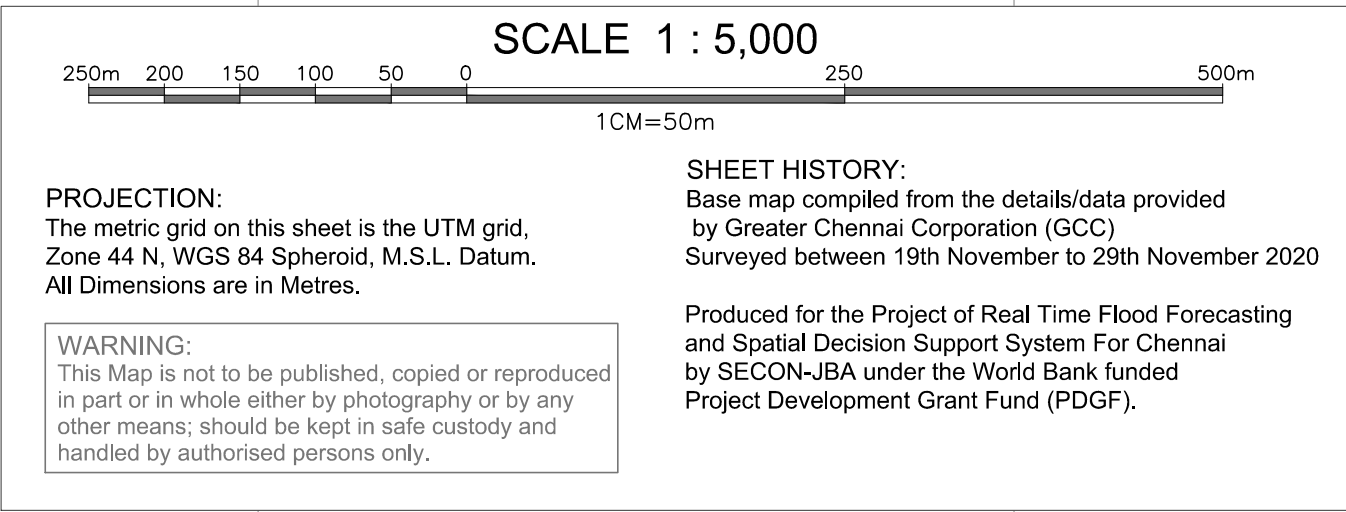
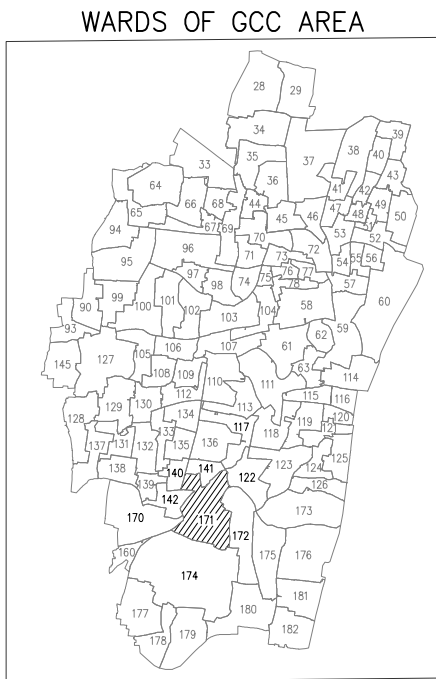
LIST OF POINTS							
Sl No.	MANHOLE ID	DRAIN Closed(O) /Open(O)	Drain Top(m)	Invert (m)	Road Edge (m)	Width (m)	Depth (m)
1	A1 (OL)	O	4.933	3.464	4.938	2.100	1.531
2	A2	C	5.402	4.555	5.542	0.602	0.295
3	A3	C	6.261	5.887	6.108	0.621	0.073
4	A4	C	6.687	6.173	6.476	0.602	0.166
5	B1 (OL)	C	5.384	3.782	5.266	1.017	1.245
6	B2	C	5.685	4.693	5.566	0.951	0.671
7	B3	C	5.853	4.975	5.751	0.700	0.678
8	B4	C	6.039	5.071	5.902	0.950	0.688
9	B5	C	6.371	5.395	6.222	1.000	0.476
10	C1 (OL)	C	5.056	3.548	5.242	1.012	0.628
11	C2	C	5.554	4.563	5.407	1.023	0.410
12	C3	C	6.185	5.290	6.017	1.100	0.779
13	C4	C	6.671	5.873	6.461	1.050	0.498
14	D1 (OL)	C	2.909	1.724	2.406	1.230	1.131
15	D2	C	3.159	2.143	3.096	0.951	0.931
16	D3	C	5.344	4.357	5.298	0.932	0.813
17	D5	C	5.757	4.672	5.630	0.952	0.950
18	D6	C	6.046	4.988	5.770	0.962	0.909
19	D7	C	5.683	4.500	5.548	0.942	1.003
20	D8	C	6.834	5.745	6.685	0.961	0.861
21	E1 (OL)	C	6.981	5.276	6.879	1.550	1.355
22	E2	C	6.906	5.305	6.685	1.400	1.251
23	E3	C	7.203	5.793	7.139	1.350	1.110
24	E4	C	7.680	6.067	7.562	1.400	1.313
25	E5	C	7.487	6.242	7.410	1.350	0.945
26	E6	C	6.969	5.196	6.931	1.680	1.423
27	E7	C	6.657	4.807	6.396	1.450	1.550
28	E8	C	5.461	4.639	5.359	0.620	0.562
29	E9	C	5.365	4.528	5.171	0.600	0.547
30	E10	C	5.049	4.312	4.888	0.600	0.257
31	F1 (OL)	C	4.679	3.720	4.620	0.631	0.807
32	F2	C	5.019	3.979	5.008	0.601	1.046
33	F3	C	5.275	4.163	5.176	0.604	0.930
34	F4	C	5.656	4.670	5.507	0.604	0.804
35	G1 (OL)	C	4.627	4.186	4.597	0.807	0.160
36	G2	C	4.896	3.756	4.701	1.102	0.730
37	G3	C	5.301	4.429	5.171	0.750	0.772
38	G4	C	5.327	4.446	5.055	0.700	0.701
39	G5	C	5.156	4.295	5.059	0.700	0.461
40	G6	C	5.046	4.249	4.821	0.700	0.617
41	G7	C	4.873	4.085	4.791	0.700	0.598
42	G8	C	6.430	5.119	6.419	0.800	1.151
43	G9	C	6.515	5.063	6.524	1.000	1.242
44	G10	C	6.329	5.019	6.072	1.000	1.110
45	H1 (OL)	C	4.764	3.612	4.559	0.971	0.920
46	H2	C	4.666	3.576	4.515	0.821	0.839
47	H3	C	5.226	4.670	5.039	0.652	0.215
48	H4	C	5.535	4.568	5.573	0.931	0.729
49	H5	C	5.290	4.463	5.296	0.996	0.546
50	H6	C	4.567	3.431	4.519	1.001	0.855
51	H7	C	4.862	3.963	4.397	0.721	1.020
52	H8	C	4.583	3.209	4.570	0.931	1.242
53	H9	C	4.839	3.390	4.783	0.812	0.337
54	H10	C	5.106	3.925	5.113	0.782	0.299
55	H11	C	5.555	4.426	5.514	0.612	0.857
56	H12	C	4.696	3.912	4.412	1.053	0.654
57	H13	C	4.794	3.757	4.591	1.007	0.806
58	H14	C	4.828	3.584	4.623	1.097	0.942
59	H15	C	4.658	3.266	4.498	1.105	0.995
60	I1 (OL)	C	5.101	4.019	5.533	1.102	0.890
61	I2	C	5.104	3.959	5.245	0.867	1.003
62	J1 (OL)	C	5.972	4.874	5.897	1.001	0.257
63	J2	C	6.544	5.577	6.500	0.801	0.788
64	K1 (OL)	C	4.862	4.045	4.547	0.652	0.641
65	K2	C	5.109	4.024	4.552	0.622	0.919
66	K3	C	5.513	4.759	4.735	0.691	0.754
67	L1 (OL)	C	5.162	3.850	5.025	1.221	1.175
68	L2	C	4.808	3.795	4.840	1.001	0.831
69	L3	C	4.775	3.749	4.625	0.932	0.714
70	M1 (OL)	C	3.982	3.304	4.174	0.661	0.495
71	M2	C	4.039	3.201	4.124	0.602	0.666
72	N1 (OL)	C	4.351	3.728	4.397	0.631	0.451
73	N2	C	4.737	3.611	4.723	1.021	1.126
74	N3	C	4.678	3.961	4.723	0.972	0.535
75	N4	C	4.866	3.702	4.722	1.008	0.992
76	N5	C	4.901	3.747	4.711	1.002	0.976
77	N6	C	4.286	3.214	4.250	1.007	0.890
78	O1 (OL)	C	4.243	3.269	4.249	0.997	0.782
79	O2	C	4.421	3.462	4.224	0.999	0.697
80	P1 (OL)	C	6.447	4.999	6.101	0.621	1.136
81	P2	C	6.917	6.224	6.791	0.602	0.555
82	P3	C	7.265	6.216	7.143	0.701	0.907
83	Q1	C	8.150	6.440	8.058	1.402	1.426
84	Q2	C	8.100	6.401	8.120	1.402	1.446
85	Q3	C	7.854	6.676	7.718	1.382	0.956
86	R1 (OL)	C	4.267	4.005	4.254	0.311	0.142
87	R2	C	6.538	6.106	6.392	0.312	0.372
88	R3	C	6.893	6.702	6.869	0.620	0.150
89	R4	C	7.041	5.963	6.889	0.692	0.852
90	R5	C	6.662	5.819	6.680	0.602	0.662
91	R6	C	7.058	6.073	6.924	0.621	0.507
92	R7	C	7.202	6.256	7.065	0.662	0.447
93	R8	C	7.553	6.241	7.204	0.632	1.005
94	R9	C	7.951	6.657	7.697	0.697	1.194
95	R10	C	7.887	6.805	7.629	0.638	1.053
96	S1 (OL)	C	4.701	2.630	4.397	0.923	0.842
97	S2	C	4.870	3.636	4.890	0.958	0.794
98	S3	C	5.345	4.323	5.154	1.180	0.660
99	S4	C	5.540	4.774	5.540	0.962	0.755
100	S5	C	4.669	2.727	4.031	0.602	0.947
101	S6	C	4.981	4.659	4.659	0.602	0.947
102	S7	C	5.335	4.255	5.118	0.623	0.600
103	S8	C	5.534	4.524	5.267	0.689	1.005
104	S9	C	5.536	4.505	5.331	0.753	0.677
105	S10	C	5.643	4.752	5.536	0.623	0.645
106	S11	C	5.139	4.250	4.887	0.641	0.708
107	S12	C	5.930	5.057	5.713	0.662	0.638
108	S13	C	6.183	5.550	6.077	0.701	0.526
109	T1	C	9.488	7.918	8.478	1.061	1.018
110	T2	C	8.854	7.286	8.170	1.052	1.406
111	T3	C	8.356	7.014	8.140	1.000	0.925
112	T4	C	8.025	7.374	7.894	1.027	0.919
113	T5	C	10.362	8.959	9.894	0.721	1.062
114	T6	C	8.253	7.286	8.285	1.100	0.915
115	T7	C	8.276	7.161	8.221	1.017	1.017
116	T8	C	8.161	7.073	7.997	1.002	0.921
117	T9	C	8.113	6.966	8.058	0.941	0.932
118	T10	C	7.804	6.905	7.751	1.181	0.770
119	T11	C	7.843	6.558	7.771	1.197	1.109
120	T12	C	7.962	6.737	7.957	0.621	1.200
121	T13	C	7.934	6.864	7.939	0.907	0.950
122	T14	C	7.956	6.912	7.866	0.921	0.899
123	T15	C	7.966	6.994	7.862	0.821	0.834
124	T16	C	—	—	—	—	—
125	T17	C	8.041	6.910	8.259	0.920	1.001
126	T18	C	8.139	7.969	8.029	0.901	0.367
127	T19	C	7.747	7.501	7.863	0.412	0.236
128	T20	C	7.743	7.440	7.873	0.402	0.238
129	T21	C	7.743	7.513	7.837	0.402	0.238
130	T22	C	7.696	7.344	7.846	0.401	0.264
131	T23	C	7.621	7.510	7.767	0.421	0.214
132	T24	C	7.314	7.418	7.767	0.401	0.261
133	T25	C	7.937	7.066	7.923	0.921	0.692
134	T26	C	7.619	7.334	7.753	0.402	0.130
135	T27	C	7.362	7.245	7.806	0.427	0.110
136	T28	C	7.847	7.125	7.822	0.662	0.432
137	T29	C	7.946	7.116	7.668	0.601	0.643
138	U1	C	8.320	6.720	8.337	1.052	1.411
139	U2	C	8.690	7.280	8.506	1.252	1.111
140	U3	C	7.960	6.862	7.884	1.402	0.940
141	V1	C	5.723	4.922	5.553	0.650	0.551
142	V2	C	5.403	4.560	5.193	0.700	0.593

LEGEND

Drain Outlet

Drain With Reverse Gradient

Manhole's Inside not Accessible



LIST OF CONTROL POINTS						
Sl. No.	Point No.	Latitude	Longitude	Easting(m)	Northing(m)	MSL RL(m)
1	T158A	13°01'38.583"N	80°12'32.139"E	414221.994	1440297.552	6.00

Roads: main; others: mud. Cart track.

Temple, Chhatra, Shrine, Mosque, Idgah, Tomb, Church.

Railways: broad gauge with station; bridge; metro.

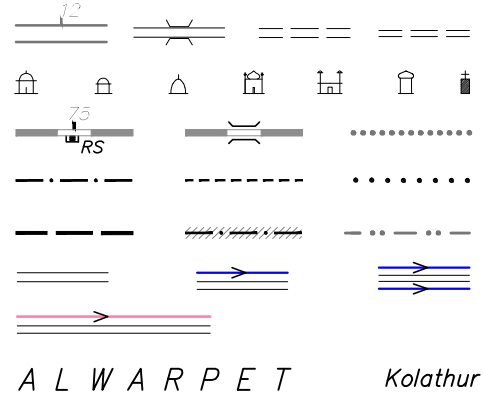
Boundary: state; district; taluk.

Boundary: CMA; zone; ward.

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

Road with reverse gradient drain.

Spaced names: locality, village.



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

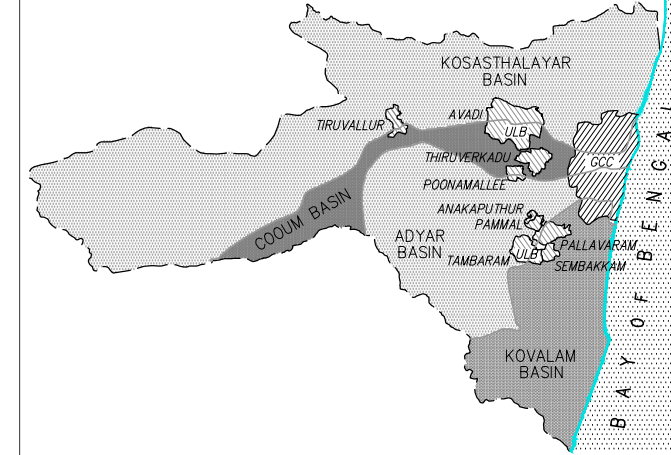
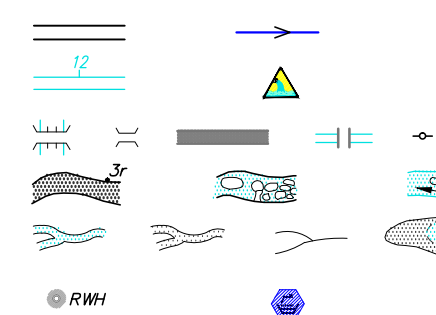
Canal, Outlet, Inundated area by previous flood.

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)
FUNDED BY		PROJECT DEVELOPMENT GRANT FUND (PDGF)
PROJECT		(Managed by Tamil Nadu Urban Infrastructure Financial Services Limited)
TITLE		PLANNING, SETTING UP AND OPERATIONALIZING REAL TIME FLOOD FORECASTING SPATIAL DECISION SUPPORT SYSTEM FOR CHENNAI
PROJECT CONSULTANTS		SECON - JBA Consulting (U.K.) JV
SHEET No. 10 OF 114	SCALE 1:5000	DRAWING No. CFM/SWD/WARD-10
		REV. 0