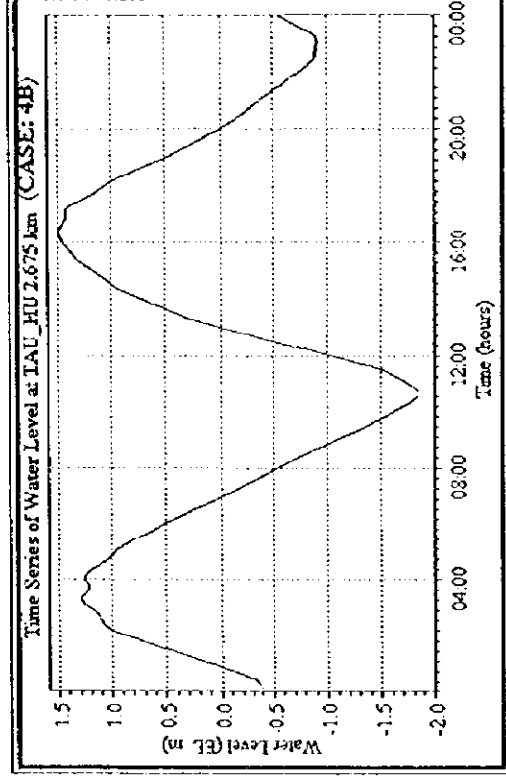
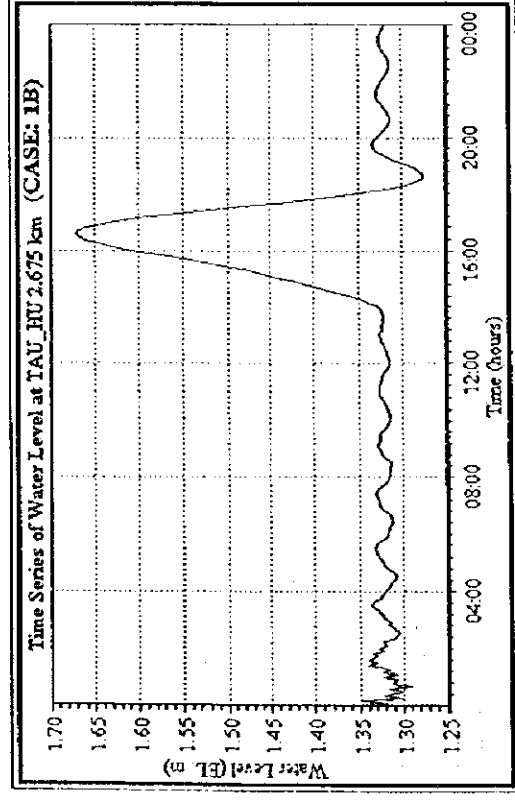
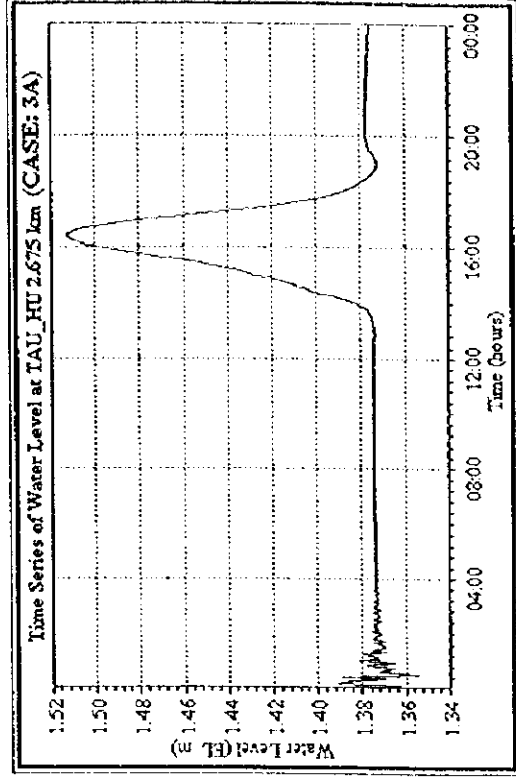
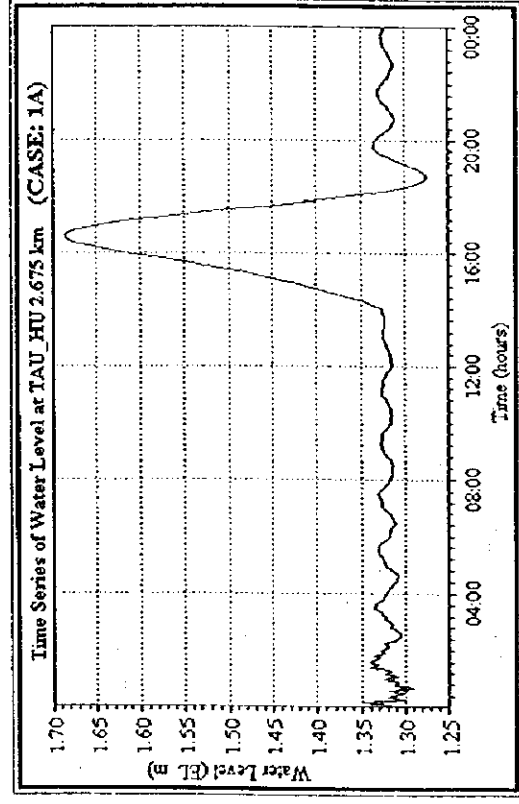
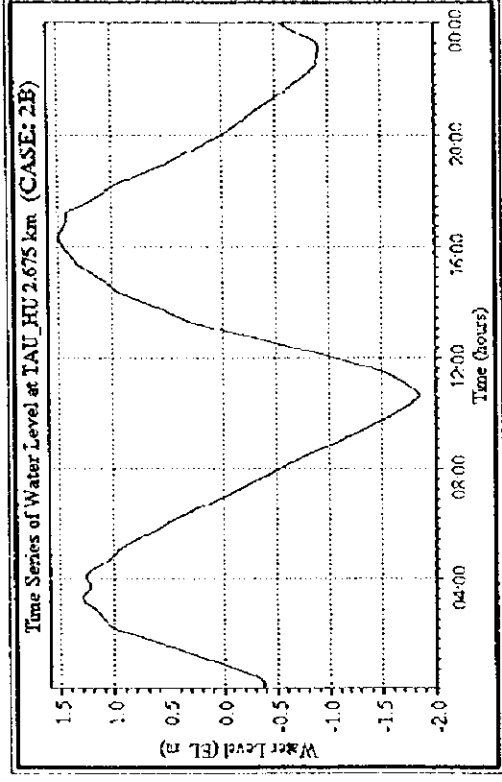
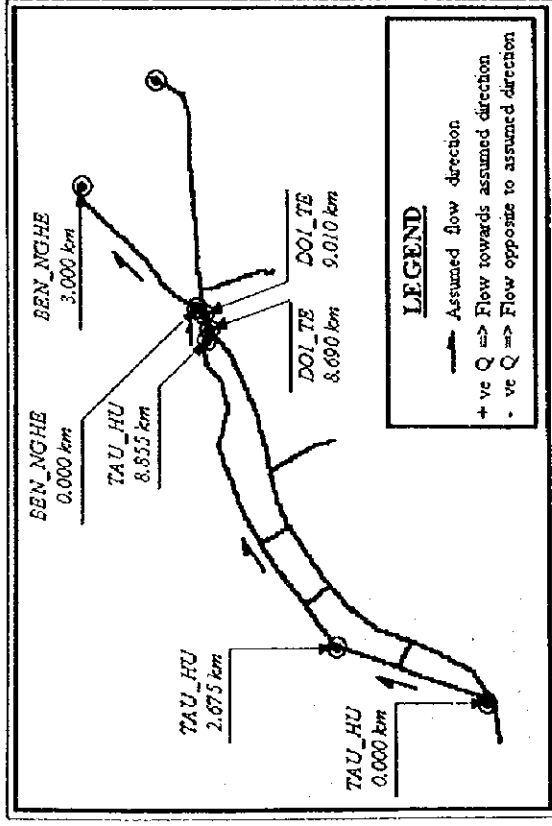
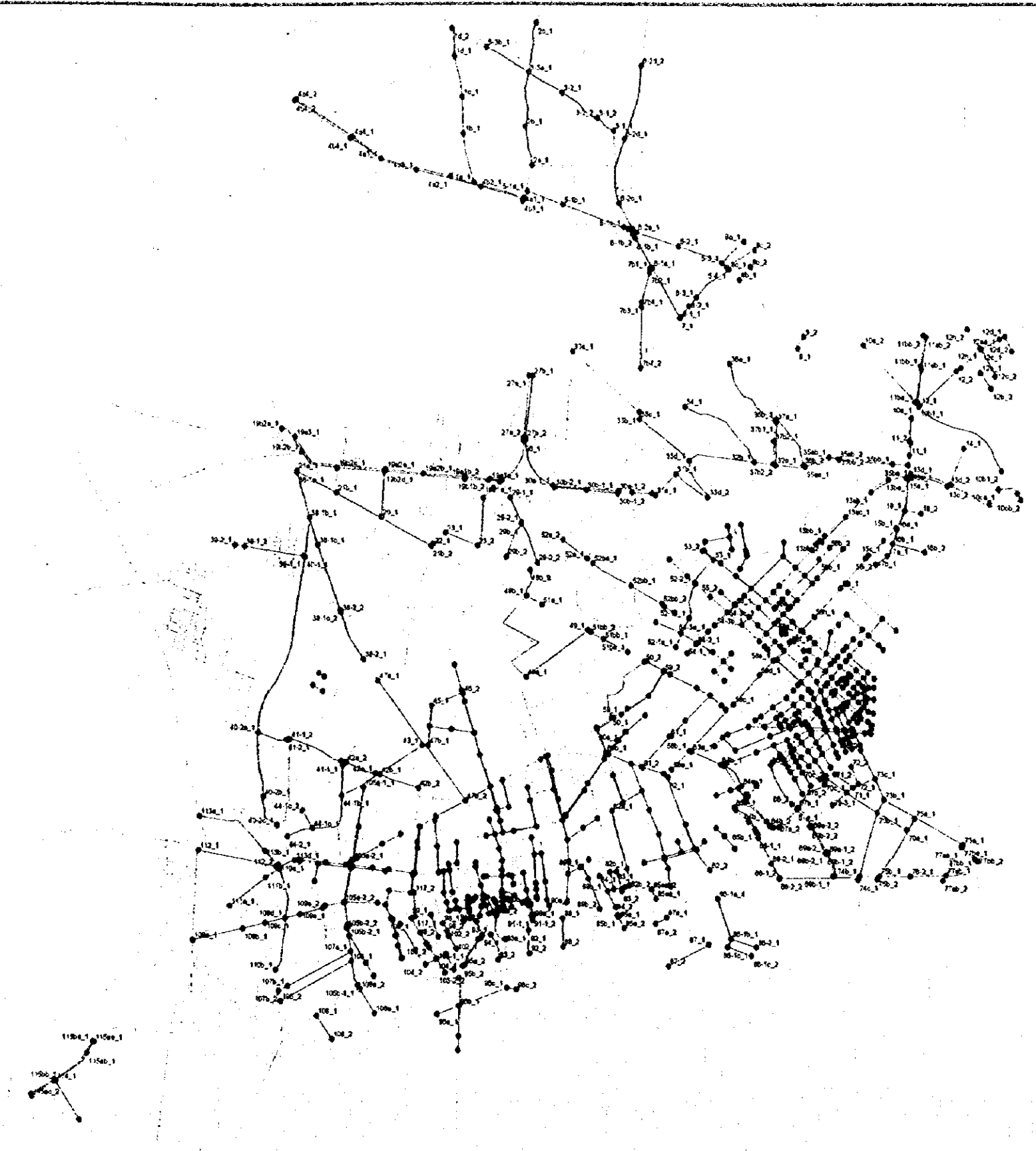
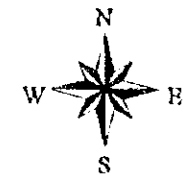


*I-2 DATA ON HYDRODYNAMIC MODELING OF
TAU HU - BEN NGHE CANAL BY MIKE 11*



CHAINAGE IDENTIFICATION AND STAGE HYDROGRAPHS AT KINH TAU HU - KINH LO GOM JUNCTION
FOR DIFFERENT CASES UNDER PROPOSED CONDITION

*I-3 DATA AND CALCULATION FOR HYDRODYNAMIC MODELING OF
EXISTING COMBINED SEWER BY MOUSE*



LEGEND

- Manhole
- Pipe Network

FIG.	EXISTING MAIN DRAINAGE PIPE NETWORK	SCALE: 1:65,000	THE STUDY ON URBAN DRAINAGE AND SEWERAGE SYSTEM FOR HO CHI MINH CITY	JAPAN INTERNATIONAL COOPERATION AGENCY
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Data Sheet of Drainage Network Survey by US in 1969 (1/7)

Line No.	Street Name	Stretch		Manhole		Length (m)	Type	Ground Elevation (m)		Invert Elevation (m)		Average Slope (%)	Average Q full (cu.m/s)	Case	Condition
		from	to	Inlet	Outlet			Inlet	Outlet	Inlet	Outlet				
1	Phu Lam	Hung Vuong	Lo Gom stream			254	F-2	1.9	1.4	-0.269	-0.738	0.036	0.641	3	Fair
2a	Minh Phung	Xom Dat	Tran Quoc Toan			455	F-5	2.2	2.0	0.560	-0.322	0.079	0.440	3	Fair
2b	Minh Phung	3 thang 2	Hung Vuong (North)			77	F-3	2.0	2.0	-0.322	-0.350	0.048	0.456	3	Fair
2c	Minh Phung	Hung Vuong (South)	Hung Vuong (North)			37	F-2	2.0	2.0	-0.025	-0.350	0.022	0.501	3	Fair
3a	Minh Phung	Hung Vuong	Hau Giang			476	F-3	2.0	1.6	0.093	-0.366	0.047	0.451	3	Fair
3b	Minh Phung	Hau Giang	Bai Say canal			329	F-3	1.6	1.7	-0.366	-0.548	0.011	0.218	3	Fair
3c	Pham Phu Thu	Gia Phu	Binh Tien			434	F-3	1.7	1.3	-0.286	-0.491	0.047		3	Fair
3d	Binh Tien	Pham Phu Thu	Bai Say canal			182	F-3	1.3	1.4	-0.491	-0.548	0.031		3	Fair
3e	Pham Phu Thu	Gia Phu	Ben Nghe canal			191	K-7	1.4	1.4	-0.266	-0.933	0.339		3	Fair
4a	Mai Xuan Thuong	Truong Tan Bui	Pham Van Khoe			374	K-7	1.6	1.6	-0.374	-1.040	0.051	0.472	3	Fair
4b	Mai Xuan Thuong	Bai Say	Pham Van Chi			195	F-1	1.6	1.2	-1.046	-1.064	0.038	1.194	3	New Pipe
4c	Mai Xuan Thuong	Pham Van Chi	Ben Nghe canal			325	F-1	1.2	1.4	-1.064	-1.562	0.038	1.194	3	Fair
5a	Mai Xuan Thuong	Pham Van Chi	Bai Say			211	F-3	1.6	1.4	0.033	-0.734	0.039	0.411	3	Fair
5b	Mai Xuan Thuong	Gia Phu	Ben Nghe canal			200	F-5	1.4	1.4	-0.470	-0.718	0.039	0.225	3	Fair
6a	Cong Truong (West Side)	3 thang 2	Nguyen Chi Thanh			251	F-2	2.4	2.5	0.222	0.063	0.081	0.763	3	Fair
6b	Cong Truong (West Side)	Near 3 thang 2	Hung Vuong (North Side)			394	F-2	2.5	2.1	0.063	-0.137	0.051	0.763	3	Fair
6c	Cong Truong (West Side)	Hung Vuong (North Side)	Hung Vuong (South Side)			46	F-2	2.1	2.1	-0.137	-0.170	0.051	0.763	3	Fair
6d	Cong Truong (West Side)	Hung Vuong (South Side)	Trang Tu			295	F-2	2.1	1.6	-0.170	-0.408	0.051	0.763	3	Fair
7a	Cong Truong (East Side)	Near 3 thang 2	Nguyen Chi Thanh			281	F-2	2.4	2.6	0.222	-0.168	0.051	0.763	3	New Pipe
7b	Cong Truong (East Side)	Nguyen Chi Thanh	Hung Vuong (North Side)			330	F-2	2.6	2.1	-0.168	-0.137	0.051	0.763	3	New Pipe
7c	Cong Truong (East Side)	Hung Vuong (North Side)	Hung Vuong (South Side)			46	F-2	2.1	2.1	-0.137	-0.170	0.051	0.763	3	New Pipe
8	Binh Tay	Gia Phu	Ben Nghe canal			164	A-11	1.4	1.4	-0.546	-1.099	0.337		3	Fair
9	Nguyen Che Nghia	Tuy Ly Vuong	Doi canal			221	F-5	1.5	1.5	-1.071	-1.054	0.008		3	Fair
10a	Ton Tho Tuong	Near Tran Quoc Toan	Nguyen Chi Thanh			348	F-3	2.5	2.3	0.711	0.253	0.035	0.389	2	Fair
10b	Ton Tho Tuong	Tran Hoang Quan	Hong Bang			363	F-3	2.3	2.1	0.253	-0.257	0.035	0.389	2	Fair
11	Hoc Lac	Hong Bang	Near Khong Tu			394	K-12	2.2	1.8	-0.683	Inaccessible blocked	0.035	1.251	3	Fair
12	Go Cong	Near Khong Tu	Bai Say canal			142	K-12	1.8	1.9	Inaccessible	W/Trash	0.035	1.251	3	Fair
13	Manh Tu	Tran Quy	Tran Hoang Quan			174	F-2	2.4	2.2	0.983	0.238	0.428	2.210	2	Fair
14a	Manh Tu	Tan Hung	Hong Bang			75	K-9	2.3	2.4	-0.688	tee unavailable	0.010	0.141	3	Fair
14b	Manh Tu	Hong Bang	Khong Tu			320	K-9	2.4	2.2	tee unavailable	0.101	0.010	0.141	3	Fair
15a	Ly Thanh Nguyen	Tran Hoang Quan	Tan Hung			278	K-13	2.2	2.6	-0.010	-0.477	0.010	0.419	3	Fair
15b	Tan Hung	Ly Thanh Nguyen	Manh Tu			125	K-13	2.6	2.3	-0.477	-0.688	0.010	0.419	3	Fair
16a	Ly Thanh Nguyen	Nguyen Trai	Dong Khanh			93	A-13	2.1	1.9	0.944	0.459	0.106	0.297	2	Fair
16b	Ly Thanh Nguyen	Cong Khanh	Khong Tu			112	A-11	1.9	1.8	0.459	0.145	0.106	0.404	2	Fair
17	Phung Hung	Nguyen Trai	Khong Tu (North)			228	B-4	2.5	2.2	0.936	-0.024	0.115	0.348	2	Fair
18a	Phung Hung	Trinh Hoa Duc (North)	North of Trinh Hoa Duc			28	B-6			0.259	Unavailable				Fair
18b	Phung Hung	North of Trinh Hoa Duc	Doc Phu Thoa			36	B-2			Unavailable	-0.104			3	Fair
18c	Phung Hung	Khong Tu (South)	Doc Phu Thoa			50	B-3			tee unavailable	-0.104	0.115	0.370	2	Fair
19a	Phung Hung	Trinh Hoa Duc (South)	Near Le Quang Liem			41	B-6	1.9	1.9	0.088	-0.129	0.529		3	Fair
19b	Tran Van Kieu	Phung Hung	Bai Say canal			178	B-3	1.9	1.9	-0.129	Inaccessible covered by			3	Fair
20	Nguyen Van Thach	Mac Cui	Mac Cui			204	K-5			-0.430	-0.752	0.044	0.523	3	Fair
21	Nguyen Van Thach	Le Quang Dinh	Ben Nghe canal			79	F-5			0.481	0.077	0.172	0.476	3	Fair
22	Dinh Hoa	Can Giuoc	Ben Nghe canal			138	F-5	1.6	1.6	-0.022	-0.791	0.557		3	Fair
23a	Tong Doc Phuong	North of Hong Bang	Hong Bang			38	F-5	2.8	2.8	0.901	0.668	0.065	0.292	2	Good
23b	Tong Doc Phuong	Hong Bang	Dong Khanh			252	A-4	2.0	1.6	0.566	0.055	0.055	0.687	2	Good
23c	Tong Doc Phuong	Dong Khanh	Khong Tu			138	A-1	1.6	2.7	0.055	-0.639	0.065	1.363	2	Good
23d	Van Kiep	Tong Doc Phuong	Ben Nghe canal			279	K-5	2.7	1.9	-0.839	-1.111	0.065	0.036	2	
24	Mac Cui	Khong Tu	Ben Nghe canal			236	K-5			-0.003	-2.322	0.150	1.136	2	Fair
25	Xom Cui	Tung Thien Vuong	Ben Nghe canal			176	F-5	1.6	1.6	-0.016	-0.555	0.036	0.218	3	Fair
26a	Luong Nhu Hoc	Khong Tu	Ben Nghe canal			22	A-14			0.492	0.217	0.046	0.163	3	Fair
26b	Luong Nhu Hoc	North of Tran Tuong Cong	Le Quang Liem			102	A-11			0.217	-0.207	0.046	0.206	3	Fair
26c	Luong Nhu Hoc	Le Quang Liem	Ben Nghe canal			31	A-7			-0.207	-0.233	0.046	0.409	3	Fair
27a	Ly Nam De	Hoa Hoa	Tran Hoang Quan			200	G-1	3.3	2.7	1.186	0.090	0.103	1.611	2	Fair
27b	Trieu Quang Phuc	Nguyen Chi Thanh	North of Pham Huu Cho			185	K-1	2.7	2.8	0.090	-0.017	0.103	2.071	2	Fair
27c	Trieu Quang Phuc	North of Pham Huu Chi	Near Nguyen Trai			304	K-1	2.8	1.6	-0.017	-0.783	0.103	2.071	2	Fair
27d	Trieu Quang Phuc	Near Nguyen Trai	Khong Tu			263	J-4	1.6	1.6	-0.783	-1.170	0.103	3.338	2	Fair
27e	Khong Tu	Trieu Quang Phuc	Ben Nghe canal			340	J-3	1.6	1.6	-1.170	Unavailable	0.103	4.760	2	Good
28a	Trieu Quang Phuc	Khong Tu	Tran Tuong Cong			83	A-13	1.6	1.6	0.969	-0.028	0.287	0.490	2	Fair
28b	Trieu Quang Phuc	Tran Tuong Cong	Ben Nghe canal			98	B-5	1.6	1.7	-0.028	-0.552	0.287	0.879	2	Fair
29	Phong Phu	along Phong Phu	Ben Nghe canal			152	F-5	1.5	1.5	-0.568	-0.966	0.262		3	Fair
30a	Phan Huy Chu	House No. 12	House No. 16			33	A-13			0.489	0.475	0.254	0.407	3	Poor
30b	Phan Huy Chu	House No. 16	Trieu Quang Phuc			49	A-11			0.475	0.396	0.254	0.551	3	Poor
31	Phan Huy Chu	House No. 12	Ben Nghe canal			84	A-10			0.409	-0.098	0.254	0.626	3	Poor
32	Phu Dong Tan Vuong	Nguyen Trai	Cong Khanh			128	A-13	1.6	1.6	1.370	0.252	0.873			
33a	Ly Thuong Kiet (West)	House No. 141/b	House No. 97			380	F-5	5.4	5.3	4.799	3.668	0.296	0.722	1	New Pipe
33b	Ly Thuong Kiet (West)	House No. 97	Sealand Gate			421	F-5	5.3	4.8	3.666	3.488	0.043	0.274	1	New Pipe
33c	Ly Thuong Kiet (West)	Sealand Gate	Trung Tam Huan Nu Nhan			397	F-5	4.8	4.5	3.488	3.297	0.048	0.280	1	New Pipe
33d	Ly Thuong Kiet (West)	Trung Tam Huan Nu Nhan	Entrance to Army Fill Area			357	F-5	4.5	4.2	3.297	2.807	0.137	0.490	1	New Pipe
33e	Ly Thuong Kiet (West)	Entrance to Army Fill Area	House No. 275			139	F-3	4.2	4.5	2.807	2.791	0.012	0.263	1	New Pipe
33f	Ly Thuong Kiet (West)	House No. 275	Lu Gia			453	F-3	4.5	5.8	2.791	2.659	0.029	0.409	1	New Pipe
33g	Ly Thuong Kiet (West)	Lu Gia	House No. 48			336	F-3	5.8	3.6	2.659	2.457	0.060	0.568	1	New Pipe
33h	Ly Thuong Kiet (West)	House No. 48	Tran Quoc Toan			433	F-3	3.6	3.6	2.457	2.171	0.066	0.617	1	New Pipe

Data Sheet of Drainage Network Survey by US in 1969 (2/7)

Line No	Street Name	Stretch		Manhole		Length (m)	Type	Ground Elevation (m)		Invert Elevation (m)		Average Slope (%)	Average Q full (cu.m/s)	Case	Condition
		from	to	Inlet	Outlet			Inlet	Outlet	Inlet	Outlet				
33a	Ly Thuong Kiet (West)	3 thang 2	Intersect @ West Side			364	F-3	3.6	3.4	2.171	1.259	0.251	1.202	1	New Pipe
34a	Ly Thuong Kiet (East)	3 thang 2	Near Tan Phuoc			305	F-5	3.6	3.7	2.163	1.200	0.316	0.640	2	Poor
34b	Ly Thuong Kiet (East)	Near Tan Phuoc	Near Dao Duy Tu			167	G-3	3.7	3.6	1.200	0.802	0.211	1.303	2	Poor
34c	Ly Thuong Kiet (East)	Near Dao Duy Tu	Nguyen Chi Thanh			184	H-1	3.6	3.6	0.802	0.578	0.211	1.178	2	Poor
35	Road No. 14	along Road No. 14	Ly Thuong Kiet			319	F-5	5.3	5.8	4.172	3.680	0.154	0.519	1	New Pipe
36a	Ly Thuong Kiet (West)	House No. 147/B	Road No. 14			242	F-5	5.4	5.8	4.799	3.604	0.488	0.929	1	New Pipe
36b	Ly Thuong Kiet (West)	Road No. 14	Highway No. 1			273	F-5	5.6	4.2	3.504	2.413	0.436	0.674	1	New Pipe
37	Ly Thuong Kiet (West)	Near Road No. 14	Pham Hong Thai			357	F-5	5.7	4.2	3.801	2.437	0.362	0.818	1	New Pipe
38	(?)	Highway No. 1	Ditch			212	F-5	4.2	3.7	2.413	1.961	0.213	0.529	1	New Pipe
39	Nguyen Kim	Tran Quoc Toan	Tan Phuoc			361	F-5	3.9	3.8	2.639	1.634	0.278	0.605	1	Fair
40a	Tan Da	Nguyen Trai	Tan Hung			231	K-7	1.6	1.5	1.403	0.119	0.373	1.250	2	Good
40b	Tan Da	Tan Hung	Ben Nghe canal			132	K-5	1.5	1.4	0.119	0.731	0.373	1.523	2	Good
41a	Main Road - At Hospital	Hospital Grounds	Hong Bang			257	K-11	3.6	2.6	1.520	0.995	0.158	1.308	2	Good
41b	Dang Thai Thanh	Hong Bang	Tran Hung Dao			404	K-11	2.6	1.6	0.995	0.019	0.158	1.008	2	Good
41c	Pham Phu Tien	Tran Hung Dao	An Diem			90	A-6	1.6	1.6	0.019	-0.309	0.158	0.871	2	Good
41d	Pham Phu Tien	An Diem	Tan Da alley			70	A-8	1.6	1.6	-0.209	-0.509	0.158	0.921	2	Good
41e	Pham Phu Tien	Tan Da alley	Ben Nghe canal			43	A-5	1.6	1.4	-0.509	-0.589	0.158	1.133	2	Good
42a	Tieu Da	Nhut Tao	House No. 141			147	K-7	4.1	4.1	2.233	1.916	0.216	0.951	1	Fair
42b	Tieu Da	House No. 141/b	Nguyen Chi Thanh			350	K-7	4.1	3.7	1.916	1.331	0.217	0.953	1	Fair
43a	Ngo Cuyen	Hung Vuong	Nguyen Trai			220	K-6	2.6	2.1	Access blocked no invert available					
43b	Ngo Cuyen	Nguyen Trai	Tran Hung Dao			160	K-6	2.1	1.4	Access blocked no invert available					
44a	Nguyen Tn Phuong (West)	3 thang 2	House No. 401			444	F-5	4.3	4.5	2.489	1.575	0.206	0.520	1	Good
44b	Nguyen Tn Phuong (West)	House No. 401	Ngo Gia Tu			398	F-3	4.5	4.0	1.575	0.824	0.201	0.933	2	Good
45a	Nguyen Tn Phuong (East)	3 thang 2	Ba Hat			214	F-5	4.3	4.5	2.625	2.050	0.269	0.595	1	Good
45b	Nguyen Tn Phuong	Ba Hat	House No. 294			364	F-5	4.5	4.1	2.050	1.353	0.191	0.501	1	Good
45c	Nguyen Tn Phuong	House No. 294	Ngo Gia Tu			303	F-3	4.1	4.0	1.353	0.804	0.191	0.909	2	Good
46a	Nguyen Tn Phuong	Ngo Gia Tu	North of Hung Vuong			229	B-1	4.0	3.6	-0.126	-0.168	0.048	1.906	2	Good
46b	Nguyen Tn Phuong	North of Hung Vuong	Nguyen Trai			337	B-1	3.6	3.2	-0.168	-0.553	0.048	1.906	2	Good
46c	Nguyen Tn Phuong	Nguyen Trai	Near Tran Phu			176	J-2	3.2	2.3	-0.553	-0.794	0.048	3.702	2	Good
46d	Nguyen Tn Phuong	Near Tran Phu	Ben Nghe canal			359	J-2	2.3	1.8	-0.794	-1.333	0.048	3.702	2	Good
47a	Le Hong Phong	3 thang 2	Phan Thanh Gian (North)			356	F-3	4.2	5.0	1.754	0.964	0.062	0.518	2	Good
47b	Le Hong Phong	Dien Bien Phu (North)	Phan Thanh Gian (South)			22	F-2	5.0	5.0	0.964	1.081	0.062	0.642	2	Good
47c	Ly Thai To	Dien Bien Phu (South)	Tran Binh Trong			328	F-2	4.4	4.6	1.071	0.364	0.062	0.842	2	Good
48a	Ly Thai To	Nguyen Thi Minh Khai	Nguyen Dinh Chieu			358	F-3	4.6	4.7	2.098	1.264	0.167	0.850	2	Good
48b	Ly Thai To	Phan Dinh Phung	Tran Binh Trong			112	F-3	4.7	5.0	1.264	0.364	0.167	0.850	2	Good
49	Le Hong Phong	Vinh Van	Hung Vuong			405	F-5	4.3	4.1	2.986	2.143	0.208	523.000	1	Good
50a	Tran Binh Trong	Ly Thai To	Nguyen Hoang			522	M-1	4.7	4.3	0.255	-0.508	0.062	1.547	2	Good
50b	Tran Binh Trong	Tran Phu	House No. 210/B			223	M-1	4.3	4.0	-0.508	-0.745	0.062	1.547	2	Good
50c	Tran Binh Trong	House No. 210/B	Nguyen Trai			276	M-1	4.0	2.8	-0.745	-0.877	0.062	1.547	2	Good
50d	Tran Binh Trong	Nguyen Trai	Tran Hung Dao			343	M-1	2.8	1.8	-0.877	-1.396	0.062	1.547	2	Good
50e	Tran Binh Trong	Tran Hung Dao	Ben Nghe canal			362	J-1	1.8	1.6	-1.398	-1.622	0.062	4.033	2	Good
51	Nguyen Dieu	Phan Van Tin	Tran Hung Dao			139	F-5	1.6	1.7	0.264	-0.020	0.013	0.131	3	Good
52	Cong Hoa	Vo Thanh	Tran Hung Dao			378	F-5	2.9	1.7	0.829	-0.024	0.023	0.174	2	Good
53	Nguyen Canh Chan	Tran Hung Dao	Ben Nghe canal			347	F-5	1.9	1.7	0.126	-1.218	0.152	0.447	3	Good
54a	Phat Diem	Tran Hung Dao	House No. 27C			318	E-3	1.8	1.7	-0.139	-0.866	0.114	1.141	3	Good
54b	Phat Diem	House No. 27C	Ben Nghe canal			140	E-2	1.7	1.7	-0.866	-1.208	0.114	2.069	3	Good
55a	Cong Quynh	Market/ House No. 165	Nguyen Cu Tinh			375	E-4	2.4	1.8	0.293	-0.151	0.056	0.492	3	Good
55b	Cong Quynh	Nguyen Cu Tinh	Tran Hung Dao			128	E-3	1.8	1.6	-0.151	-0.396	0.056	0.800	3	Good
55c	Huynh Quang Tien	Tran Hung Dao	Ben Chuong Duong			400	E-3	1.8	1.7	-0.396	-0.727	0.023	0.513	3	Good
56	Nguyen Thai Hoc	Pham Ngu Lao	Ben Nghe canal			734	E-2	2.0	1.9	Offset sewer / flooded - No data available					
57	Doctor Yessin	Pham Ngu Lao	Ben Nghe canal			676	E-2	1.7	1.7	Offset sewer / flooded - No data available					
58	Ky Con	Tran Hung Dao	Ben Nghe canal			594	E-2	1.8	1.7	Offset sewer / flooded - No data available					
59	Doctor Calmette	Pham Ngu Lao	Ben Nghe canal			636	E-1	1.9	1.6	Offset sewer / flooded - No data available					
60a	Thu Khoa Huan	Nguyen Du	Ly Tu Trong			140	K-5	4.5	3.7	2.384	1.588	0.568	1.879	1	Good
60b	Thu Khoa Huan	Ly Tu Trong	Saigon market			235	K-6	3.7	2.1	1.588	-0.345	0.187	1.078	2	Good
60c	Pho Duc Chinh	Saigon market	Le Thi Hong Gam			232	E-2	2.1	2.2	-0.345	-0.903	0.045	1.300	2	Good
60d	Pho Duc Chinh	Le Thi Hong Gam	Between Nguyen Cong Tu and Nguyen Thai Binh			188	E-1	2.2	1.9	-0.903	-1.132	0.045	2.798	2	Good
60e	Pho Duc Chinh	Between Nguyen Cong Tu and Nguyen Thai Binh	Ben Nghe canal			275	E-1	1.9	1.6	-1.132	-1.218	0.045	2.798	2	Good
61a	Ton That Tung	Nguyen Thi Minh Khai	Bui Thi Xuan			211	F-5	3.5	4.4	2.536	1.938	0.283	0.610	1	Good
61b	Ton That Tung	Bui Thi Xuan	Le Lai			199	E-4	4.4	2.9	1.938	0.689	0.628	1.648	2	Good
62	Cach Mang Thang Tam	Nguyen Du	Ly Tu Trong			149	K-6			2.224	1.651	0.385	1.547	1	Good
63a	Cach Mang Thang Tam	Near Nguyen Thi Minh Khai	Near Vo Van Tan			77	D-1	5.5	5.3	3.234	3.110	0.161	0.535	1	Good
63b	Cach Mang Thang Tam	Near Vo Van Tan	Ngo Tho Nhim			370	A-16	5.3	4.7	3.110	2.266	0.228	2.692	1	Good
63c	Cach Mang Thang Tam	Ngo Tho Nhim	Vo Thi Sau			449	A-15	4.7	4.2	2.266	1.134	0.315	3.824	2	Good
63d	Cach Mang Thang Tam	Vo Thi Sau	House No. 200A			445	A-15	4.2	3.9	1.134	0.538	0.315	3.824	2	Good
64	Cach Mang Thang Tam	Hoa Hung	House No. 200A			158	E-4	3.9	3.2	0.829	0.538	0.208	0.949	2	Good
65	Ba Huyen Thanh Quan	Nguyen Dinh Chieu	Ngo Tho Nhim			187	F-5	4.8	4.7	2.874	2.508	0.142	0.432	1	Good
65a	Nguyen Phu	Ly Tu Trong	Le Thanh Ton			96	E-2			1.533	-0.040	0.664	4.992	2	Good
65b	Nguyen Phu	Le Thanh Ton	Pham Hong Thai			45	E-2			-0.040	-0.034	0.664	4.992	2	Good
67a	Truong Cong Dinh	Nguyen Du	Ly Tu Trong			138	K-6	4.7	3.5	2.097	1.089	0.531	1.527	2	Good
67b	Truong Cong Dinh	Ly Tu Trong	Le Thanh Ton			101	E-2	3.5	2.7	1.089	-0.198	0.531	4.454	2	Good
67c	Truong Cong Dinh	Le Thanh Ton	Le Lai			122	E-3	2.7	2.2	-0.198	-0.635	0.531	2.454	2	Good

Data Sheet of Drainage Network Survey by US in 1969 (3/7)

Line No.	Street Name	Stretch		Manhole		Length (m)	Type	Ground Elevation (m)		Invert Elevation (m)		Average Slope (%)	Average Q full (cu.mis)	Case	Condition
		from	to	Inlet	Outlet			Inlet	Outlet	Inlet	Outlet				
68	Phan Chu Trinh	Le Thanh Ton	Le Lai			155	K-6	2.8	2.0	0.075	-0.704	0.234	1.206	3	Good
68a	Thuong Dinh	Nguyen Dinh Chieu	Ngô Thi Nham			135	E-4	4.9	4.7	2.974	2.577	0.294	1.128	1	Good
68b	Thuong Dinh	Ngô Thi Nham	Vô Thi Sau			440	G-4	4.7	4.5	2.455	1.309	0.260	4.025	1	Good
68c	Thuong Dinh	Vô Thi Sau	Ly Chinh Thang			234	G-4	4.5	3.8	1.309	0.490	0.336	4.566	2	Good
68d	Thuong Dinh	Ly Chinh Thang	Thi Nghe stream			318	D-2	3.8	3.0	0.490	-1.037	0.336	5.012	2	Good
70	Tran Quoc Thao	Ky Dong	Thi Nghe stream			166	F-5	1.9	1.7	0.549	0.097	0.120	0.937	2	Good
71	Le Van Sy (West)	Tran Quang Dieu	Thi Nghe stream			367	F-5	2.3	1.7	0.364	-0.201	0.235	0.556	3	Fair
72	Le Van Sy (East)	Tran Quang Dieu	Thi Nghe stream			358	F-5	2.3	1.7	-0.024	0.087	0.264	0.589	3	Fair
73a	Nguyen Trung Truc	Nguyen Du	Ly Tu Trong			160	K-6	4.8	4.3	2.841	1.958	0.552	1.852	1	Good
73b	Nguyen Trung Truc	Ly Tu Trong	Le Loi			255	K-6	4.3	1.9	1.958	-0.334	0.542	1.836	2	Good
73c	Nguyen Trung Truc	Le Loi	Nam Ky Khoi Nghia			60	K-6	1.9	1.9	-0.334	-0.363	0.542	1.836	2	Good
74a	Nam Ky Khoi Nghia	Nguyen Thi Minh Khai	Nguyen Du			437	K-5	7.6	5.3	Restricted area - No invert available					
74b	Nam Ky Khoi Nghia	Nguyen Du	Ly Tu Trong			151	K-6	5.3	4.8	3.201	2.185	0.631	1.951	1	Good
74c	Nam Ky Khoi Nghia	Ly Tu Trong	Le Thanh Ton			120	K-6	4.8	3.3	2.185	-0.013	1.832	3.700	2	Good
74d	Nam Ky Khoi Nghia	Le Thanh Ton	South of Le Loi			247	K-6	3.3	1.8	-0.013	-0.424	0.089	0.784	3	Good
74e	Nam Ky Khoi Nghia	South of Le Loi	South of Ham Nghi			310	K-4	1.8	1.8	-0.424	-0.818	0.099	1.061	3	Good
74f	Nam Ky Khoi Nghia	South of Ham Nghi	North of Ben Chuong Duong			216	K-6	1.8	1.8	-0.818	-0.939	0.099	0.784	3	Good
74g	Nam Ky Khoi Nghia	North of Ben Chuong Duong	Ben Nghe canal			94	F-2	1.8	1.8	-0.939	-1.295	0.099	1.053	3	Good
75a	Nam Ky Khoi Nghia	Nguyen Thi Minh Khai	North of Tran Quy Cap			189	K-6	7.6	5.8	5.970	3.638	1.128	2.648	1	Good
75b	Nam Ky Khoi Nghia	North of Vo Van Tan	Diem Bien Phu			422	K-4	5.8	4.4	3.638	2.730	0.263	1.730	1	Good
75c	Nam Ky Khoi Nghia	Diem Bien Phu	Vô Thi Sau			237	K-4	4.4	4.2	2.730	2.224	0.197	1.497	1	Good
75d	Nam Ky Khoi Nghia	Vô Thi Sau	North of Nguyen Dinh Chieu			304	C-1	4.2	3.7	2.224	1.304	0.303	4.198	1	Good
75e	Nam Ky Khoi Nghia	North of Nguyen Dinh Chieu	North of Ly Chinh Thang			412	C-1	3.7	2.7	1.304	-0.273	0.284	4.064	2	Good
75f	Nam Ky Khoi Nghia	North of Ly Chinh Thang	Thi Nghe stream			346	C-1	2.7	1.2	-0.273	-1.716	0.284	4.064	2	Good
76a	Pasteur	North of Nguyen Thi Minh Khai	Nguyen Thi Minh Khai			52	K-6	7.8	7.8	5.757	5.468	0.555	1.857	1	Good
76b	Pasteur	Nguyen Thi Minh Khai	Han Thuyen			300	K-4	7.6	6.2	5.468	3.963	0.502	2.390	1	Good
76c	Pasteur	Han Thuyen	Nguyen Du			153	K-4	5.2	5.7	3.963	3.158	0.526	2.447	1	Good
76d	Pasteur	Nguyen Du	Ly Tu Trong			171	K-4	5.7	5.2	3.158	2.255	0.528	2.451	1	Good
76e	Pasteur	Ly Tu Trong	Le Thanh Ton			129	K-6	5.2	3.5	2.255	0.604	0.087	0.735	3	Good
76f	Pasteur	Le Thanh Ton	Ton That Thiep			286	K-6	3.5	1.8	0.604	-0.620	0.087	0.735	3	Good
76g	Pasteur	Ton That Thiep	Ham Nghi (East)			256	K-6	1.8	1.8	-0.620	-0.854	0.087	0.735	3	Good
77	Pasteur	Ham Nghi (West)	Ham Nghi (East)			44	K-6	1.8	1.8	-0.505	-0.854	0.087	0.735	3	Good
78a	Pasteur	Ham Nghi (West)	North of Ben Chuong Duong			177	K-6	1.8	1.8	-0.505	-0.684	-0.087	0.735	3	Good
78b	Pasteur	North of Ben Chuong Duong	Ben Nghe canal			90	K-6	1.8	1.7	-0.684	-1.068	0.087	0.735	3	Good
79a	Pasteur	North of Nguyen Thi Minh Khai	North of Phan Dinh Phung			413	K-6	7.8	5.7	5.757	3.229	0.612	1.951	1	Good
79b	Pasteur	North of Phan Dinh Phung	Vô Thi Sau			416	K-6	5.7	4.2	3.229	2.314	0.220	1.169	1	Good
80	Ton That Dam	Ton That Thiep	Ham Nghi (East)			290	K-6	1.9	1.8	-0.310	-1.062	0.084	0.723	3	Good
81	Ton That Dam	Ham Nghi (West)	Ham Nghi (East)			44	K-6	1.8	1.8	-0.202	-1.082	0.084	0.723	3	Good
82a	Ton That Dam	Ham Nghi (West)	Ben Chuong Duong			152	K-6	1.8	1.7	-0.202	-0.614	0.084	0.723	3	Good
82b	Ton That Dam	Ben Chuong Duong	Ben Nghe canal			74	E-4	1.7	1.7	-0.814	-0.878	0.054	0.603	3	Good
83	Ho Tung Mau	Huyth Thuc Khang	Ton That Thiep			66	K-7	1.9	1.9	-0.358	-0.386	0.077	0.568	3	Fair
84	Ho Tung Mau	Huyth Thuc Khang	Ham Nghi (East)			309	K-6	1.9	1.8	-0.358	-0.837	0.077	0.692	3	Fair
85a	Ho Tung Mau	Nguyen Cong Thu	Ham Nghi (West)			31	K-7	1.8	1.8	-0.296	-0.009	0.077	0.568	3	Fair
85b	Ho Tung Mau	Ham Nghi (West)	Ham Nghi (East)			45	K-7	1.8	1.8	-0.609	-0.837	0.077	0.568	3	Fair
86	Ho Tung Mau	Nguyen Cong Thu	Ben Nghe canal			148	K-7	1.8	1.7	-0.296	-0.832	0.077	0.568	3	Fair
87a	Nguyen Hue (West)	Le Thanh Ton	Rex Theater			98	K-6	3.5	1.8	0.652	0.136	0.102	0.796	2	Good
87b	Nguyen Hue (West)	Rex Theater	Ton That Thiep			247	K-7	1.8	1.9	0.136	-0.602	0.102	0.654	2	Good
87c	Nguyen Hue (West)	Ton That Thiep	Hai Thieu			307	K-7	1.9	2.0	-0.602	-1.340	0.102	0.654	2	Good
87d	Nguyen Hue (West)	Hai Thieu	Saigon river			138	K-7	2.0	2.1	-1.340	-1.632	0.102	0.654	2	Good
88a	Nguyen Hue (East)	Le Thanh Ton	Le Loi			153	K-6	3.5	1.8	1.284	-0.202	0.177	1.049	2	Good
88b	Nguyen Hue (East)	Le Loi	South of Mac Thi Bui			272	K-6	1.8	1.9	-0.202	-1.121	0.177	1.049	2	Good
88c	Nguyen Hue (East)	South of Mac Thi Bui	Bach Dang			327	K-6	1.9	2.1	-1.121	-1.621	0.177	1.049	2	Good
88d	Nguyen Hue (East)	Bach Dang	Saigon river			56	E-4	2.1	2.1	-1.621	-1.710	0.177	0.875	2	Good
88a	Duy Tan	Chien Si Circle	Thong Nhat			354	K-7	8.2	8.0	6.224	5.953	0.077	0.568	1	Good
88b	John F. Kennedy Square	Thong Nhat	Nguyen Du			260	K-7	8.0	7.0	5.953	4.645	0.503	1.452	1	Good
89c	Dong Khoi	Nguyen Du	Le Thanh Ton			274	K-6	7.0	6.1	4.645	1.596	1.113	2.630	1	Good
89d	Dong Khoi	Le Thanh Ton	Lam Son			116	K-6	6.1	2.0	1.596	0.166	0.237	1.214	2	Good
89e	Dong Khoi	Lam Son	Dong Du			201	K-6	2.0	2.0	0.166	-0.438	0.237	1.214	2	Good
89f	Dong Khoi	Dong Du	Bach Dang			341	K-5	2.0	2.0	-0.438	-0.715	0.237	1.428	2	Good
89g	Dong Khoi	Bach Dang	Saigon river			78	F-3	2.0	2.0	-0.715	-1.038	0.237	1.013	2	Good
90a	Duy Tan	Chien Si Circle	Diem Bien Phu			436	K-6	8.2	5.5	5.954	2.888	0.677	2.051	1	Good
90b	Duy Tan	Diem Bien Phu	Vô Thi Sau			247	K-6	5.5	4.0	2.888	1.998	0.482	1.731	2	Good
91a	Hai Ba Trung	Nguyen Thi Minh Khai	Nguyen Van Chiem			146	K-10	8.5	8.8	6.551	6.026	0.360	0.720	1	Good
91b	Hai Ba Trung	Nguyen Van Chiem	Nguyen Du			290	K-6	8.8	6.3	6.026	4.735	0.445	1.663	1	Good
91c	Hai Ba Trung	Nguyen Du	Ly Tu Trong			163	K-6	8.3	5.8	4.736	3.651	0.666	2.035	1	Good
91d	Hai Ba Trung	Ly Tu Trong	Le Thanh Ton			120	K-6	5.8	3.7	3.651	1.419	1.660	3.400	1	Good
91e	Hai Ba Trung	Le Thanh Ton	Dong Du			319	K-6	3.7	2.0	1.419	-0.596	0.232	1.201	2	Good
91f	Hai Ba Trung	Dong Du	Me Linh Circle			134	K-7	2.0	2.0	-0.592	-0.557	0.232	0.266	2	Good
91g	Me Linh Circle	Hai Ba Trung	Saigon river			226	K-5	2.0	1.9	-0.557	-1.296	0.232	1.413	2	Good
92a	Hai Ba Trung	Nguyen Thi Minh Khai	Nguyen Van Thu			442	K-5	8.5	7.3	5.791	4.309	0.335	1.956	1	Good
92b	Hai Ba Trung	Nguyen Van Thu	House No. 223			240	K-5	7.3	5.0	4.309	2.767	0.643	2.352	1	Good
92c	Hai Ba Trung	House No. 223	Nguyen Huu Cau			430	K-4	5.0	2.8	2.767	0.069	0.344	1.978	2	Good

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Line No	Street Name	Stretch		Mannole		Length (m)	Type	Ground Elevation (m)		Invert Elevation (m)		Average Slope (%)	Average Q (lit/cu m/s)	Case	Condition
		from	to	Inlet	Outlet			Inlet	Outlet	Inlet	Outlet				
92d	Hai Ba Trung	Nguyen Huu Cau	House No. 400			258	K-4	2.8	2.0	0.059	-0.259	0.344	1.978	2	Good
92e	Hai Ba Trung	House No. 400	Thi Nghie stream			294	Unavailable	2.0	1.2	1.268	-0.475	0.142	0.137	2	Poor
93	Tran Nhat Quat	Dang Dung	Thi Nghie stream			284	L-1	2.3	1.1	1.268	-0.475	0.142	0.137	2	Poor
94	Tran Khanh Du alley	Tran Khanh Du	Thi Nghie stream			338	F-5	1.3	1.1	-0.213	-0.828	0.446		3	Good
95a	Tran Van Thach	Ma Lo	Tran Quang Khai			219	K-5	3.0	2.5	0.344	0.199	0.160	0.459	3	Good
95b	Tran Khai Chan	Tran Quang Khai	North of Tran Quang Khai			42	F-3	2.5	2.4	0.199	-0.145	0.160	0.832	3	Good
95c	Tran Khai Chan	North of Tran Quang Khai	Thi Nghie stream			355	F-2	2.4	1.1	-0.145	-1.166	0.160	1.352	3	Good
96	Phung Khai Khoan	Nguyen Van Thu	Nguyen Dinh Chieu			152	K-6			5.777	4.837	0.618	1.960	1	Good
97	Phung Khai Khoan	Nguyen Van Thu	Dien Bien Phu			159	K-6	7.2	7.5	5.796	5.098	0.439	1.552	1	Good
98	Mac Dinh Chi	Nguyen Van Thu	Nguyen Dinh Chieu			157	K-6			5.665	4.512	0.734	2.136	1	Good
99	Mac Dinh Chi	Nguyen Van Thu	Dien Bien Phu			153	K-6			5.665	5.245	0.275	1.307	1	Good
100a	Thi Sach	Le Thanh Ton	Dong Du			344	K-6	3.8	2.0	1.446	-0.657	0.272	1.300	2	Good
100b	Thi Sach	Dong Du	Cong Truong Circle			155	K-4	2.0	1.9	-0.657	Unavailable	0.272	1.759	2	Good
100c	Cong Truong Circle	Dong Du	Saigon river			86	E-3	1.9	1.9	Unavailable	-0.858	0.272	1.763	2	Good
101a	Don Dat	Ly Tu Trong	Le Thanh Ton			102	K-6	5.7	3.9	3.788	2.040	1.714	3.264	1	Good
101b	Don Dat	Le Thanh Ton	South of Nguyen Sieu			332	K-6	3.9	2.1	2.040	-0.288	0.482	1.731	2	Good
101c	Don Dat	South of Nguyen Du	Saigon river			122	E-4	2.1	1.9	-0.288	-0.551	0.482	1.444	2	Good
102a	Cuong De	Nguyen Du	Nguyen Trung Nhan			210	K-6	7.0	5.8	5.014	2.375	1.257	2.795	1	Good
102b	Cuong De	Nguyen Trung Nhan	Bach Dang			390	K-5	5.8	3.0	2.375	-1.228	0.621	2.311	2	Good
102c	Cuong De	Bach Dang	Saigon river			49	E-4	3.0	2.0	-1.228	-0.429	0.621	1.639	3	Good
103a	Dinh Tien Hoang	Nguyen Dinh Chieu	Dien Bien Phu			312	A-12	6.5	5.3	3.709	2.920	0.253	1.807	1	Good
103b	Dinh Tien Hoang	Dien Bien Phu	Vo Thi Sau			240	A-12	5.3	5.0	2.920	Unavailable	0.964	3.526	2	Good
103c	Dinh Tien Hoang	Vo Thi Sau	Thi Nghie stream			120	A-12	5.0	1.5	Unavailable	0.374	0.964	3.526	2	Good
104a	Nguyen Binh Khiem	Nguyen Du	Le Thanh Ton			363	K-6	5.8	2.0	3.434	-0.037	0.585	1.907	2	Good
104b	Nguyen Binh Khiem	Le Thanh Ton	Saigon river			250	K-6	2.0	1.3	Restricted area - No invert available		1.907		2	Good
105a	Trinh Minh Tho	South Side Hoang Dieu	North Side Hoang Dieu			89	F-5			-0.217	0.020	0.266		3	Fair
105b	Trinh Minh Tho	North Side Hoang Dieu	House No. 56			89	A-11			0.020	-0.214	0.263		3	Fair
105c	Trinh Minh Tho	House No. 56	House No. 36			41	K-7			-0.214	-0.214	0.000		3	Fair
106d	Trinh Minh Tho	House No. 36	House No. 2			195	K-6			-0.214	-0.156	0.030		3	Fair
105e	Trinh Minh Tho	House No. 2	Thi Nghie canal			70	K-5			-0.156	-0.560	0.577		3	Fair
106a	Hau Giang	West of Mai Xuan Thuong	Minh Phung			441	F-5	1.7	1.6	-0.355	-0.366	0.013	0.131	3	Fair
106b	Hau Giang	Minh Phung	Lo Gom stream			282	F-5	1.6	1.6	-0.366	-0.401	0.013	0.131	3	Fair
107	Truong Tan Bui	Nguyen Thi Nho	Ma Xuan Thuong			305	F-2	1.7	1.8	-0.468	-0.374	0.051	0.763	3	Fair
108	Trang Tu	Nguyen Thi Nho	East of Nguyen Thi Nho			85	F-2	1.6	1.7	-0.703	-0.538	0.286	1.808	3	Fair
109a	Hung Vuong	West of Nguyen Thi Nho	East of Minh Phung			434	F-4	2.0	2.0	0.254	-0.025	0.036	0.297	3	Fair
109b	Hung Vuong	East of Minh Phung	Minh Phung			10	F-2	2.0	2.0	-0.025	-0.807	0.036	0.641	3	Fair
110	Hung Vuong	Minh Phung	Phu Lam			465	F-3	2.0	1.9	0.039	-0.258	0.036	0.395	3	Fair
111	Hung Vuong	West of Nguyen Thi Nho	Nguyen Thi Nho			321	F-5	2.1	2.0	0.314	-0.005	0.036	0.218	3	Fair
112a	Hung Vuong	West of Nguyen Thi Nho	East of Minh Phung			207	F-5	2.0	1.9	0.314	0.071	0.030	0.199	3	Fair
112b	Hung Vuong	East of Minh Phung	Minh Phung			283	F-5	1.9	2.0	0.071	-0.284	0.030	0.199	3	Fair
112c	Hung Vuong	Minh Phung	Traffic Circle			23	F-2	2.0	2.0	-0.284	-0.532	0.048	0.741	3	Fair
112d	Hung Vuong	Traffic Circle	West Side Minh Phung			75	F-3	2.0	2.0	-0.532	-0.537	0.048	0.456	3	Fair
112e	Hung Vuong	West Side Minh Phung	East of Phu Lam			235	F-5	2.0	1.8	-0.537	-0.555	0.048	0.251	3	Fair
112f	Hung Vuong	East of Phu Lam	Lo Gom stream			333	F-5	1.8	1.5	-0.555	-1.052	0.048	0.251	3	Fair
113	Hung Vuong	3 thang 2	Hung Vuong			94	F-5	1.5	1.6	-0.091	-0.537	0.057	0.274	3	Fair
114a	3 thang 2	Minh Phung (West)	Minh Phung (West)			30	F-5	1.5	1.5	-0.091	-0.314	0.057	0.274	3	Fair
114b	3 thang 2	Minh Phung (West)	Minh Phung (East)			25	F-3	1.5	1.5	-0.374	-0.332	0.057	0.497	3	Fair
115a	3 thang 2	Street No. 46	House No. 622			261	F-5	2.6	2.6	0.571	0.389	0.048	0.251	3	Fair
115b	3 thang 2	House No. 622	East of Minh Phung			433	F-5	2.6	2.0	0.389	-0.201	0.048	0.251	3	Fair
115c	3 thang 2	East of Minh Phung	Minh Phung			41	F-3	2.0	2.0	-0.201	-0.332	0.048	0.456	3	Fair
116a	3 thang 2	Ly Thuong Kiet	Le Dai Hanh			369	F-3	3.6	3.8	2.247	1.539	0.165	0.845	1	Good
116b	3 thang 2	Le Dai Hanh	Ton That Thiep			455	F-5	3.8	2.5	1.639	0.845	0.172	0.476	2	Good
116c	3 thang 2	Ton That Thiep	Nguyen Thi Nho			237	F-5	2.6	2.6	0.845	0.271	0.172	0.476	2	Good
117	Trinh Hoai Duc	Phung Hung	Bai Say canal			118	A-9			0.623	-0.114	0.495	1.102	2	Fair
118a	Trinh Hoai Duc	Phung Hung	Nguyen An Khuong			82	A-13			0.560	0.145	0.067	0.236	3	Fair
118b	Trinh Hoai Duc	Nguyen Van Thach	Nguyen An Khuong			65	A-10			0.144	0.145	0.058	0.339	3	Fair
119a	Doc Phu Thoi	Phung Hung	Ben Van Tuong			147	A-13	2.1	1.8	0.434	-0.334	0.042	0.188	3	Fair
119b	Ben Van Tuong	Doc Phu Thoi	Bai Say canal			110	F-3	1.9	1.9	-0.334	Unavailable	0.042	0.428	3	Fair
120a	Hem Lam Ong	Phung Hung	East of Phung Hung			39	F-5			0.503	0.266	0.043	0.240	3	Fair
120b	Hem Lam Ong	East of Phung Hung	South of Khong Tu			41	F-3			0.266	0.139	0.043	0.433	3	Fair
120c	Hem Lam Ong	South of Khong Tu	Khong Tu			65	A-9			0.139	Unavailable	0.043	0.258	3	Fair
121	Tran Trung Cong	Luong Nhu Hoc	Trieu Quang Phuc			99	A-11			0.538	0.012	0.233	0.599	3	Fair
122	Nguyen Trai	Tan Da	Phu Dong Thien Vuong			143	A-9	1.6	1.6	1.813	1.370	0.312	0.875	1	Good
123a	Nguyen Trai	East of Chau Van Lem	West of Luong Nhu Hoc			36	A-13	3.1	3.2	2.304	2.216	0.244	0.452	1	Good
123b	Nguyen Trai	West of Luong Nhu Hoc	Trieu Quang Phuc			206	A-11	3.2	1.5	2.216	1.590	0.333	0.715	1	Good
123c	Nguyen Trai	Trieu Quang Phuc	West of Phu Dong Thien Vuong			99	A-9	1.5	1.6	1.530	1.441	0.090	0.470	1	Good
123d	Nguyen Trai	West of Phu Dong Thien Vuong	Phu Dong Thien Vuong			45	A-11	1.6	1.6	1.441	1.370	0.158	0.493	1	Good
124	Nguyen Hoang	Nguyen Doy Duong	Nguyen Tri Phuong			255	G-2			0.374	-0.816	0.177	1.662		Good
125	Bach Van	Nguyen Huynh Duc	Ben Nghie canal			270	K-6	1.5	1.5	Flooded - No invert available					
126	Tan Phuoc	Nguyen Kim	Ly Thuong Kiet			164	F-5	3.8	3.7	1.634	1.135	0.304	0.632	1	Good
127a	Nguyen Chi Thanh	Trieu Da	East of Ly Thuong Kiet			362	K-6	3.7	3.0	1.331	0.538	0.150	0.966	2	Good
127b	Nguyen Chi Thanh	East of Ly Thuong Kiet	West of Ly Thuong Kiet			91	K-3	3.6	3.3	0.598	0.439	0.150	1.931	2	Good

Data Sheet of Drainage Network Survey by US in 1969 (S/17)

Line No	Street Name	Stretch		Manhole		Length (m)	Type	Ground Elevation (m)		Invert Elevation (m)		Average Slope (%)	Average Q full (cu m/s)	Case	Condition
		from	to	Inlet	Outlet			Inlet	Outlet	Inlet	Outlet				
127c	Nguyen Chi Thanh	West of Ly Thuong Kiet	Ly Nam De			90	G-1	3.3	2.7	0.439	0.103	0.150	1.944	2	Good
128	Nguyen Chi Thanh	West of Le Dai Hanh	Ly Nam De			123	G-1	2.1	2.7	Unavailable	0.103				Good
129a	Ngo Gia Tu	Ly Thai To	West of Vinh Vien			405	F-5	5.0	4.3	2.570	2.125	0.110	0.380	1	Good
129b	Ngo Gia Tu	West of Vinh Vien	East of Nguyen Tri Phuong			500	F-5	4.3	4.1	2.125	0.615	0.206	0.520	2	Good
129c	Ngo Gia Tu	North Side Ngo Gia Tu	Center Ngo Gia Tu			12	F-3	4.1	4.1	0.615	0.198	0.206	0.944	2	Good
129d	Ngo Gia Tu	East of Nguyen Tri Phuong	Nguyen Tri Phuong			66	K-6	4.1	4.0	0.198	-0.130	0.348	1.471	2	Good
130	Ngo Gia Tu	West of Vinh Vien	East of Nguyen Tri Phuong			403	F-3	4.3	4.1	2.470	0.198	0.348	1.227	2	Good
131a	Lu Gia	Ly Thuong Kiet	House No. 36			293	F-5	5.8	3.7	2.664	2.225	0.150	0.444	1	Good
131b	Lu Gia	House No. 36	Nguyen Thi Nhu			297	F-5	3.7	4.6	2.225	1.807	0.141	0.431	1	Good
132	3 thang 2	West of Nguyen Tri Phuong	Nguyen Tri Phuong			75	F-5			2.622	2.625	0.004			Good
133	Tran Hung Dao	Le Hong Phong	Tran Binh Trong			267	F-3			0.712	-0.376	0.089	0.620	2	Good
134a	Tran Hung Dao	Nguyen Van Cu	Nguyen Bieu			161	F-3			0.035	0.025	0.023	0.315	3	Good
134b	Tran Hung Dao	Nguyen Bieu	Tran Binh Trong			253	F-3			0.025	-0.376	0.013	0.237	3	Good
135a	Tran Hung Dao	East of Nguyen Van Cu	Nguyen Van Cu			156	F-5			0.306	-0.273	0.040	0.229	3	Good
135b	Tran Hung Dao	Nguyen Van Cu	Tran Binh Trong			449	F-5			-0.273	-0.376	0.040	0.229	3	Good
136a	Hung Vuong	Su Van Hanh	Nguyen Duy Duong			235	F-3	3.9	3.8	3.015	2.741	0.117	0.711	1	Good
136b	Hung Vuong	Nguyen Duy Duong	Nguyen Tri Phuong			297	F-3	3.8	3.6	2.741	1.022	0.839	1.916	2	Good
137	Bui Huu Nghia	Tran Hung Dao	Bach Van			220	G-3	1.6	1.5	Flooded - No invert available					
138a	Nguyen Cu Trinh	Phat Diem	West of Cong Quynh			237	F-5			-0.007	0.012	0.099	0.361	3	Good
138b	Nguyen Cu Trinh	West of Cong Quynh	Cong Quynh			101	F-3			0.012	-0.181	0.099	0.654	3	Good
139a	Phan Dinh Phung	Cap Thang	Vuon Chuoi			289	F-5	4.4	4.6	3.108	3.120	0.004			Good
139b	Phan Dinh Phung	Vuon Chuoi	Cap Mang Thang 8			451	F-3	4.6	5.0	3.120	2.771	0.077	0.577	1	Good
140a	Dien Bien Phu	Cap Thang	Nguyen Thien Thuat			329	F-5	3.8	3.2	2.495	1.866	0.191	0.501	1	Good
140b	Dien Bien Phu	Nguyen Thien Thuat	Ly Thai To			379	F-5	3.2	5.0	1.866	1.081	0.118	0.394	2	Good
141	Dien Bien Phu	Nguyen Thien Thuat	Ly Thai To			362	F-5	3.2	5.0	2.165	0.964	0.037	0.220	2	Good
142	3 thang 2	House No. 177	Le Hong Phong			273	F-5	3.0	4.2	2.157	1.754	0.148	0.441	1	Good
143a	3 thang 2	House No. 177	House No. 85			237	F-5	3.0	4.0	2.157	1.505	0.215	0.531	1	Good
143b	3 thang 2	House No. 85	Cap Mang Thang 8			718	F-5	4.0	4.2	1.505	0.930	0.080	0.324	2	Good
144a	Hoa Hung	House No. 274	House No. 186			110	F-3	3.3	3.2	1.632	1.226	0.208	0.949	2	Good
144b	Hoa Hung	House No. 186	Cap Mang Thang 8			395	F-3	3.2	3.2	1.226	0.829	0.208	0.949	2	Good
145a	Tran Hung Dao	Nguyen Khai Nhu	House No. 265			134	K-2			-0.367	-0.374	0.221	2.344	3	Good
145b	Tran Hung Dao	House No. 265	Nguyen Quang Tien			76	A-2			-0.374	-0.343	0.024	0.688	3	Good
146	Tran Hung Dao	Phat Diem	Nguyen Quang Tien			181	A-2			-0.088	-0.343	0.234	2.085	3	Fair
147	Tran Hung Dao	Nguyen Cu Trinh	House No. 185			238	F-5			0.264	-0.044	0.024	0.178	3	Fair
148	Nguyen Cong Thu	Nam Ky Khoi Nghia	Nguyen Thai Hoc			700	E-3	1.8	1.9	Flooded - No invert available					
149	Phan Van Truong	Nguyen Thai Hoc	Doctor Yersin			150	E-4			Flooded - No invert available					
150	Trinh Van Canh	Nguyen Thai Hoc	Doctor Yersin			156	E-3			Flooded - No invert available					
151	Ho Van Nghia	Nguyen Thai Hoc	Pho Duc Chinh			525	E-3			Flooded - No invert available					
152	Bui Thi Xuan	Luong Huu Khanh	(?)			160	F-5			1.548	1.990	0.276		3	Fair
153	Tran Hung Dao	De Tham	Nguyen Thai Hoc			158	F-5			-0.016	-0.602	0.053	0.289	3	Fair
154a	Tran Hung Dao	De Tham	Nguyen Thai Hoc			170	F-5	1.9	1.8	Flooded - No invert available					
154b	Tran Hung Dao	Nguyen Thai Hoc	Doctor Yersin			183	F-5	1.9	1.9	Flooded - No invert available					
155a	Pham Ngu Lao	East of Cong Quynh	West of De Tham			465	F-3	2.4	1.8	0.549	-0.115	0.028	0.350	3	Fair
155b	Pham Ngu Lao	West of De Tham	Nguyen Thai Hoc			236	F-3	1.8	1.7	-0.115	-0.046	0.028	0.350	3	Fair
156	Pham Ngu Lao	Nguyen Thai Hoc	Pho Duc Chinh			515	F-3	1.7	1.7	Flooded - No invert available					
157a	Le Lai	(?)	Phan Van Hum			507	F-3	2.9	2.5	0.689	0.059	0.013	0.218	2	Good
157b	Le Lai	Phan Van Hum	Truong Cong Dinh			307	F-3	2.5	2.2	0.059	-0.579	0.013	0.218	3	Good
157c	Le Lai	Truong Cong Dinh	Saigon market			205	F-3	2.2	2.1	-0.579	Unavailable	0.013	0.218	3	Good
158a	Ngo Tung Chau	(?)	Nguyen Van Trang			350	F-3	4.5	3.7	Offset / Flooded					
158b	Ngo Tung Chau	Nguyen Van Trang	Cap Mang Thang 8			200	F-3	3.7	3.3	Offset / Flooded					
159	Pham Hong Thai	Gia Long	Le Lai			356	F-1			1.499	-0.579	0.395	3.851	2	Good
160	Nguyen Cong Thu	House No. 56	Pasteur			48	A-3			-0.114	-0.546	0.010	0.345	2	Good
161	Nguyen Cong Thu	House No. 56	Ton That Dam			48	A-3			-0.136	-0.321	0.010	0.345	3	Good
162	Nguyen Cong Thu	House No. 24	Ton That Dam			52	A-3			0.047	-0.321	0.014	0.409	3	Good
163	Nguyen Cong Thu	House No. 24	(?)			52	A-3			0.103	-0.296	0.014	0.409	3	Good
164a	Ham Nghi (South)	Pho Duc Chinh	Pasteur			336	K-5	2.1	1.8	-0.520	-0.684	0.029	0.425	3	Good
164b	Ham Nghi	Pasteur	Near Bach Dang			321	K-6	1.8	1.8	-0.584	-0.229	0.029	0.425	3	Good
164c	Ham Nghi	Bach Dang	Saigon River			85	K-4	1.8	1.8	-0.229	-1.329	0.029	0.574	3	Good
165a	Ham Nghi (north)	Pho Duc Chinh	Pasteur			393	K-6	2.1	1.8	-0.510	-0.865	0.031	0.439	3	Good
165b	Ham Nghi	Pasteur	Saigon River			450	K-6	1.8	1.8	-0.865	-1.729	0.031	0.439	3	Good
166a	(?)	House No. 29	Nguyen Hue			65	K-7			0.134	-1.083	0.026	0.330	3	Fair
166b	(?)	House No. 29	(?)			95	K-7			0.134	-0.503	0.026	0.330	3	Fair
167a	Ngo Duc Ke	House No. 66	(?)			70	K-8			0.057	-0.463	0.015	0.198	3	Fair
167b	Ngo Duc Ke	House No. 66	Nguyen Hue			60	K-8			0.057	-0.558	0.015	0.198	3	Fair
168a	Huynh Thuc Khang	Nguyen Hue	Ton That Dam			150	K-7	1.9	1.9	-0.288	-0.589	0.008	0.183	3	Fair
168b	Huynh Thuc Khang	Pasteur	Ton That Dam			100	K-7	1.9	1.8	-0.191	-0.599	0.022	0.304	3	Fair
168c	Huynh Thuc Khang	Pasteur	Nam Ky Khoi Nghia			135	K-7	1.8	1.8	-0.191	-0.750	0.104	0.660	3	Fair
169a	Ton That Thiep	Ton That Dam	Pasteur			97	K-7	1.6	1.9	-0.310	-0.520	0.019	0.282	3	Good
169b	Ton That Thiep	Ton That Dam	Nguyen Hue			128	K-7	1.9	1.9	-0.310	-0.602	0.019	0.282	3	Good
170a	Le Loi (South)	Nguyen Hue	Nam Ky Khoi Nghia			308	K-7	1.8	1.9	0.058	-0.092	0.066	0.526	3	Good
170b	Le Loi (South)	Nam Ky Khoi Nghia	Dinh Hong Circle			253	K-7	1.9	2.1	-0.092	-0.360	0.056	0.493	3	Good
171a	Le Loi (North)	Nguyen Hue	Nguyen Trung Thuc			331	K-7	1.8	1.9	0.060	-0.038	0.015	0.251	3	Good

Data Sheet of Drainage Network Survey by US in 1969 (6/7)

Line No.	Street Name	Street		Mannhole	Length (m)	Type	Ground Elevation (m)		Invert Elevation (m)		Average Slope (%)	Average C full (cu.m/s)	Case	Condition
		from	to				Inlet	Outlet	Inlet	Outlet				
171b	Le Lor (North)	Nguyen Trung Truc	Dinh Hong Circle		216	E-3	1.9	2.1	-0.038	-0.360	0.198	1.504	3	Good
172a	Nguyen An Ninh	House No. 22	Phan Chau Trinh		55	K-6	2.4	2.4	-0.299	-0.347	0.062	0.621	3	Good
172b	Nguyen An Ninh	House No. 22	Truong Dinh		80	K-7	2.4	2.4	-0.299	-0.421	0.062	0.510	3	Good
173	Le Thanh Ton	Nguyen Phi	Truong Dinh		96	E-4			0.696	-0.254	0.464	1.417	2	Good
174	Le Thanh Ton	Nguyen Trung Truc	Truong Dinh		396	E-4			0.748	-0.268	0.126	0.738	2	Good
175a	Le Thanh Ton	Hai Ba Trung	Dong Khoi		193	K-7	3.7	3.5	2.669	1.796	0.452	1.376	1	Good
175b	Le Thanh Ton	Dong Khoi	Pasteur		223	K-7	3.5	3.3	1.596	0.644	0.427	1.337	2	Good
175c	Le Thanh Ton	Pasteur	Nam Ky Khoi Nghia		149	K-7	3.3	3.1	0.644	-0.013	0.441	1.359	2	Good
176	Le Thanh Ton	West of Nguyen Binh Khiem	Cuong De		256	K-7	4.2	2.0	0.193	-0.037	0.030	0.614	2	Good
177a	Le Thanh Ton	Hai Ba Trung	Don Dat		183	K-6	3.7	3.9	2.278	1.954	0.177	1.049	1	Good
177b	Le Thanh Ton	Don Dat	Chu Manh Trinh		230	K-6	3.9	4.1	1.954	0.925	0.621	1.965	2	Good
177c	Le Thanh Ton	Chu Manh Trinh	Cuong De		145	K-7	4.1	4.2	0.525	-0.094	0.427	1.337	2	Good
177d	Le Thanh Ton	Chu Manh Trinh	Nguyen Phi		202	K-6	3.3	3.4	1.489	1.261	0.113	0.888	1	Good
178a	Ly Tu Trong	Cach Mang Thang 8	Nguyen Phi		70	K-6	3.4	3.5	1.261	1.058	0.290	1.343	2	Good
178b	Ly Tu Trong	Nguyen Phi	Truong Dinh		143	K-6	4.8	4.3	2.245	1.982	0.184	1.070	1	Good
179a	Ly Tu Trong	Nam Ky Khoi Nghia	Nguyen Trung Truc		145	K-6	4.3	3.7	1.982	1.588	0.272	1.300	1	Good
179b	Ly Tu Trong	Nguyen Trung Truc	Thu Khoa Huan		205	K-6	3.7	3.5	1.588	1.051	0.257	1.204	2	Good
179c	Ly Tu Trong	Thu Khoa Huan	Truong Dinh		124	K-6	6.1	6.1	4.221	3.351	0.702	2.089	1	Good
180a	Ly Tu Trong	West of Hai Ba Trung	Dong Khoi		178	K-6	6.1	5.2	3.351	2.255	0.916	1.967	1	Good
180b	Ly Tu Trong	Dong Khoi	Pasteur		62	K-6	5.9	5.8	4.221	3.651	0.919	2.390	1	Good
181	Ly Tu Trong	West of Hai Ba Trung	Hai Ba Trung		58	K-5	5.8	5.7	4.466	3.651	1.405	2.955	1	Good
182	Ly Tu Trong	East of Hai Ba Trung	Hai Ba Trung		119	K-6	5.7	5.7	4.466	3.652	0.516	1.791	1	Good
183	Ly Tu Trong	East of Hai Ba Trung	Don Dat		109	K-5	5.7	5.6	4.823	3.852	0.891	2.383	1	Good
184	Ly Tu Trong	East of Don Dat	Don Dat		270	K-6	5.6	5.0	4.823	1.374	1.277	2.618	1	Good
185	Ly Tu Trong	East of Don Dat	Cuong De		104	K-6	4.9	3.3	2.543	2.224	0.403	1.583	1	Good
186	Nguyen Du	West of Dang Tran Con	Cach Mang Thang 8		182	K-6	4.7	4.9	2.643	2.127	0.284	1.329	1	Good
187	Nguyen Du	West of Dang Tran Con	Truong Dinh		103	K-6	5.1	4.8	3.284	2.671	0.401	1.579	1	Good
188a	Nguyen Du	West of Cong Ly	Nguyen Trung Truc		362	K-6	4.8	4.5	2.871	2.127	0.206	1.132	1	Good
188b	Nguyen Du	Nguyen Trung Truc	Truong Dinh		51	K-6	5.3	5.1	3.284	3.232	0.110	0.827	1	Good
189	Nguyen Du	West of Nam Ky Khoi Nghia	Nam Ky Khoi Nghia		284	K-7	8.9	8.3	6.844	4.795	0.742	1.763	1	Good
190a	Nguyen Du	Mac Dinh Chi	Hai Ba Trung		185	K-6	8.3	7.0	4.736	4.655	0.044	0.523	1	Good
190b	Nguyen Du	Hai Ba Trung	Dong Khoi		176	K-6	7.0	5.7	4.855	3.398	0.714	2.107	1	Good
190c	Nguyen Du	Dong Khoi	Pasteur		142	K-6	5.7	5.3	3.398	3.232	0.117	0.853	1	Good
190d	Nguyen Du	Pasteur	Nam Ky Khoi Nghia		306	E-4	8.9	7.6	6.844	5.014	0.536	1.608	1	Good
191	Nguyen Du	Mac Dinh Chi	Cuong De		164	K-8			5.949	4.736	0.740	1.394	1	Good
192	Nguyen Hau	John F. Kennedy square	Hai Ba Trung		154	K-7			Offset not available	3.963				Good
193	Ham Thuyen	John F. Kennedy square	Pasteur		142	F-5	5.0	4.7	2.725	2.583	0.100	0.363	1	Good
194	Ngô Thai Nham	Truong Minh Giang	(?)		186	F-5	4.7	4.7	2.605	2.583	0.012	0.126	1	Good
195	Ngô Thai Nham	Ba Huyen Thanh Quan	(?)		47	K-7			-0.030	-1.377	0.052	0.467	3	Good
195a	Ngô Duc Ke	House No. 38	Nguyen Hue		52	K-7			-0.030	-0.434	0.052	0.467	3	Good
195b	Ngô Duc Ke	House No. 38	Dong Khoi		63	K-7			0.056	-0.434	0.145	0.775	3	Good
197a	Ngô Duc Ke	House No. 10	Dong Khoi		59	K-7			0.056	-0.539	0.145	0.779	3	Good
197b	Ngô Duc Ke	House No. 10	Me Linh Circle		119	K-6			-0.450	-0.803	0.270	1.296	3	Good
198	Ho Huan Nghiep	Dong Khoi	Me Linh Circle		99	K-7			0.080	-0.542	0.385	1.270	3	Good
199	Phan Van Dat	(?)	Me Linh Circle		76	K-7			0.100	-0.008	0.084	0.628	3	Good
200a	(?)	Phan Van Dat	Dong Khoi		99	K-7			-0.008	-0.363	0.067	0.530	3	Good
200b	(?)	Dong Khoi	Nguyen Hue		111	E-4			0.110	-0.310	0.084	0.638	3	Good
201	(?)	Phan Van Dat	Hai Ba Trung		95	K-8			0.103	-0.338	0.088	0.481	3	Good
202	Dong Du	House No. 39	Dong Khoi		94	K-8			0.103	-0.432	0.088	0.481	3	Good
203	Dong Du	House No. 39	Hai Ba Trung		71	K-7			0.341	0.266	0.123	0.718	3	Good
204	Lam Son	Continental Hotel	Dong Khoi		124	K-7			0.341	-0.047	0.123	0.718	3	Good
205	Lam Son	Continental Hotel	Hai Ba Trung		80	K-7			0.100	-0.218	0.070	0.541	3	Good
206	Lam Son	Caravelle Hotel	Dong Khoi		115	K-7			0.100	-0.170	0.070	0.541	3	Good
207	Lam Son	Caravelle Hotel	Hai Ba Trung		145	K-5			0.043	5.772	0.187	1.078	1	Good
208	Tran Cao Van	Hai Ba Trung	Pham Ngoc Thach		145	K-6	6.7	7.4	5.050	4.154	0.618	1.960	1	Good
209	Vo Van Tan	Pasteur	Nam Ky Khoi Nghia		378	K-6	5.8	7.5	5.087	3.211	0.496	1.756	1	Good
210	Nguyen Dinh Chieu	East of Pham Ngoc Thach	Nam Ky Khoi Nghia		112	K-6	7.6	6.0	5.087	Tea, invert not available				Good
211	Nguyen Dinh Chieu	East of Pham Ngoc Thach	Hai Ba Trung		92	K-4	8.0	8.6	4.945	Tea, invert not available				Good
212	Nguyen Dinh Chieu	West of Phung Khac Khoan	Hai Ba Trung		154	K-4	8.6	7.5	4.945	4.172	0.502	2.390	1	Good
213a	Nguyen Dinh Chieu	West of Phung Khac Khoan	Mac Dinh Chi		303	K-4	7.5	6.5	4.172	3.724	0.148	1.298	1	Good
213b	Nguyen Dinh Chieu	Mac Dinh Chi	Dinh Tien Hoang		97	K-4	6.5	5.9	3.724	3.581	0.147	1.293	1	Good
213c	Nguyen Dinh Chieu	Dinh Tien Hoang	Phan Ke Binh		464	K-4	5.9	2.0	3.581	-0.310	0.502	2.390	2	Good
213d	Nguyen Dinh Chieu	Phan Ke Binh	Thi Nghie stream		148	K-6	4.4	5.0	2.895	2.805	0.061	0.616	1	Good
214	Dien Bien Phu	Pasteur	Nam Ky Khoi Nghia		172	K-6	5.0	5.5	2.895	2.688	0.004	0.050	1	Good
215a	Dien Bien Phu	Pasteur	Pham Ngoc Thach		150	K-6	5.5	6.0	3.445	2.888	0.371	1.519	1	Good
215b	Dien Bien Phu	Hai Ba Trung	Pham Ngoc Thach		293	K-6	6.0	6.1	5.429	3.445	0.677	2.051	1	Good
215c	Dien Bien Phu	Mac Dinh Chi	Hai Ba Trung		302	K-6			5.429	2.920	0.631	2.273	1	Good
217a	Dien Bien Phu	Mac Dinh Chi	Dinh Tien Hoang		314	K-6			2.920	-0.236	0.882	2.341	2	Good
217b	Dien Bien Phu	Dinh Tien Hoang	Nguyen Binh Khiem		105	E-4			-0.236	-0.777	0.882	1.954	2	Good
217c	Dien Bien Phu	Nguyen Binh Khiem	Thi Nghie stream		143	K-6			2.286	2.224	0.043	0.517	1	Good
218	Vo Thi Sau	Pasteur	Cong Ly		177	K-6			2.243	1.698	0.308	1.364	1	Good
219a	Vo Thi Sau	Pasteur	Pham Ngoc Thach		129	K-6			1.698	1.400	0.231	1.196	1	Good
219b	Vo Thi Sau	Pham Ngoc Thach	Hai Ba Trung						1.698	1.400	0.231	1.196	1	Good

Data Sheet of Drainage Network Survey by US in 1969 (7/7)

Line No	Street Name	Stretch		Manhole		Length (m)	Type	Ground Elevation (m)		Invert Elevation (m)		Average Slope (%)	Average Q full (cu.m/s)	Case	Condition
		from	to	Inlet	Outlet			Inlet	Outlet	Inlet	Outlet				
220	Võ Thi Sau	Dinh Tien Hoang				593	K-6			Offset sewers / excessive debris in access lines					
221	Pham Hong Thai	House No. 11	Ly Thuong Kiet			348	F-5			2.537	1.961	0.165	0.537	1	New pipe
222a	Pham Hong Thai	House No. 11	House No. 191			280	F-5			2.537	2.134	0.144	0.502	1	New pipe
222b	Pham Hong Thai	House No. 191	House No. 65			336	F-5			2.134	1.977	0.047	0.287	1	New pipe
222c	Pham Hong Thai	House No. 65	Bac Hai			397	F-5			1.977	1.319	0.166	0.539	1	New pipe
222d	Pham Hong Thai	Bac Hai	toward Thi Nghe stream			32	F-3			1.319	0.901	0.340	4.386	2	New pipe
222e	Pham Hong Thai	Bac Hai	toward Thi Nghe stream			32	F-3			1.319	0.901	0.136	0.488	1	New pipe
223	Nguyen Thong	alley No. 75	highway No. 1			247	F-5			2.737	2.501	0.120	0.458	1	New pipe
224	Highway No. 1	House No. 147/5	Ly Thuong Kiet			343	F-5			2.744	2.331	0.228	0.632	1	New pipe
225	Thoi Ngoc Hau	Pham Hong Thai	Thi Nghe stream			307	F-5			2.406	1.066	0.637	1.056	2	New pipe
226a	Thoi Ngoc Hau	West of Truong Minh Ky	House No. 71			379	F-5			3.050	2.778	0.072	0.365	1	New pipe
226b	Thoi Ngoc Hau	House No. 71	Thi Nghe stream			200	F-5			2.778	0.305	1.164	1.427	2	New pipe
227	Thoi Ngoc Hau	(?)	Truong Minh Ky			385	F-5			3.750	2.874	0.228	0.632	1	New pipe
228a	Truong Minh Ky	(?)	Nguyen Minh Chieu			181	F-5	6.4	6.0	4.258	3.504	0.417	0.854	1	New pipe
228b	Truong Minh Ky	Nguyen Minh Chieu	Thoi Ngoc Thach			358	F-5	6.0	5.8	3.504	2.874	0.178	0.555	1	New pipe
228c	Truong Minh Ky	Thoi Ngoc Hau	House No. 273			170	F-5	5.8	5.0	2.874	2.528	0.204	0.598	1	New pipe
228d	Truong Minh Ky	House No. 273	Huynh Quang Tien			405	F-5	5.0	4.2	2.528	1.566	0.238	0.645	1	New pipe
229	Truong Minh Ky	Rail road	Huynh Quang Tien			407	F-5	4.3	4.2	2.400	1.566	0.205	0.599	1	New pipe
230	Truong Minh Ky	Railroad	Saigon / Gia Dinh border			247	F-5	4.3	3.5	2.841	1.849	0.402	0.839	1	New pipe
231	Huynh Quang Tien	Truong Minh Ky	Thi Nghe stream			465	F-3	4.2	1.3	1.545	0.078	0.279	1.268	2	New pipe
232a	Cach Mang (West)	(?)	House No. 285			383	F-5	5.5	5.7	4.058	4.078	0.009	0.109	1	Good
232b	Cach Mang	House No. 285	North of railroad			381	F-5	5.7	6.1	4.078	3.989	0.009	0.109	1	Good
232c	Cach Mang	North of railroad	South of railroad			262	F-5	6.1	5.6	3.989	3.878	0.042	0.235	1	Good
232d	Cach Mang	South of railroad	South of Truong Tan Bui			368	F-5	5.8	4.7	3.878	2.704	0.319	0.648	1	Good
232e	Cach Mang	South of Truong Tan Bui	Thi Nghe stream			457	F-5	4.7	1.5	2.704	0.611	0.493	0.805	2	Good
233a	Cach Mang	(?)	House No. 130A			291	F-5	5.3	5.7	4.105	4.042	0.022	0.170	1	Good
233b	Cach Mang	House No. 130A	North of railroad			386	F-5	5.7	6.1	4.042	3.893	0.037	0.221	1	Good
233c	Cach Mang	North of railroad	North of Truong Tan Bui			395	F-5	6.1	5.4	3.899	3.808	0.028	0.174	1	Good
233d	Cach Mang	North of Truong Tan Bui	South of Truong Tan Bui			313	F-5	5.4	4.7	3.808	2.601	0.386	0.712	1	Good
233e	Cach Mang	South of Truong Tan Bui	Thi Nghe stream			400	F-5	4.7	1.5	2.501	0.017	0.538	0.841	2	Good
234	(?)	Tran Khac Chan	(?)			185	F-5			4.012	3.861	0.077	0.318	1	Good
235a	(?)	Nguyen Hue	House No. 538			410	F-5			5.786	5.470	0.077	0.318	1	Good
235b	(?)	House No. 538	House No. 435			243	F-5			5.470	4.516	0.393	0.719	1	Good
235c	(?)	House No. 435	Chi Lang			391	F-5			4.516	2.722	0.459	0.777	1	Good
235d	(?)	Chi Lang	House No. 301A			148	F-3			2.722	2.383	0.229	0.995	1	Good
235e	(?)	House No. 301A	House No. 143			384	F-3			2.383	0.617	0.541	1.530	2	Good
235f	(?)	House No. 143	Thi Nghe stream			429	F-3			0.617	-0.121	0.541	1.530	2	Good
236	Chi Lang (South)	(?)	(?)			284	F-5			3.839	3.671	0.059	0.279	1	Good
237	Chi Lang (North)	(?)	(?)			327	F-5			3.720	3.661	0.180	0.466	1	Good
238a	Chi Lang	Hoang Hoa Tham	Nguyen Van Hoc			302	F-5			3.489	2.872	0.204	0.518	1	Good
238b	Chi Lang	Nguyen Van Hoc	East of Cach Mang Thang Tam			432	F-5			2.872	2.777	0.022	0.170	1	Good
238c	Chi Lang	East of Cach Mang Thang Tam	stream			405	F-5			2.777	0.648	0.571	0.866	2	Good
239a	Nguyen Hue	(?)	South of railroad			324	F-3			5.166	3.630	0.474	1.432	1	Good
239b	Nguyen Hue	South of railroad	South side Chi Lang			410	F-3			3.630	-0.139	0.824	1.868	2	Good
240	Nguyen Hue	East side Chi Lang	West side Chi Lang			15	A-11			2.093	1.392	4.873	2.680	1	Good
241	Nguyen Hue	West of Chi Lang	West side Chi Lang			17	A-11			2.076	0.966	10.741	4.064	2	Good
242a	Cach Mang Thang Tam	Chi Lang	Chau Van Thiep			182	F-3			2.136	0.807	0.199	0.928	2	Good
242b	Cach Mang Thang Tam	Chau Van Thiep	House No. 40			382	F-3			0.807	0.075	0.199	0.928	2	Good
242c	Cach Mang Thang Tam	House No. 40	Thi Nghe stream			373	F-3			0.075	0.289	0.199	0.928	2	Good
243	Cach Mang Thang Tam	West side Cach Mang Thang Tam	East side Cach Mang Thang Tam			19	F-5			2.337	2.136	1.058	1.179	1	Good
244	Dong Da / Le Quang Dinh	Nguyen Dinh Chieu	Thi Nghe stream			335	F-5			0.623	0.009	0.052	0.261	2	Good
245	Tran Quang Dieu	Tran Quoc Thao	Thi Nghe stream			329	F-5			-0.106	-0.668	0.150	0.444	3	Good
246	Hong Bang	Ton Tho Tuong	Hoc Lac			85	F-1			-0.257	-0.683	0.035	1.146	3	Fair
247	Hong Bang	Manh Tu	Hoc Lac			76	F-1	2.4	2.2	Unavailable	-0.683	0.010	0.612	3	Fair
248	Nguyen Van Sam	Nam Ky Khoi Nghia	Nguyen Thai Hoc			575	E-3	2.2	2.1	Flooded / No invert available					
249	Chien Si circle	Tran Cao Van	Pham Ngoc Thach (North)			55	K-10	8.2	8.2	6.292	6.392	0.182			Good
250	Chien Si circle	Vo Van Tan	Pham Ngoc Thach (North)			67	K-10	8.2	8.2	6.424	6.329	0.142	0.452	1	Good
251	Chien Si circle	Tran Cao Van	Pham Ngoc Thach (South)			53	K-10	8.2	8.2	6.292	6.237	0.104	0.367	1	Good
252	Chien Si circle	Vo Van Tan	Pham Ngoc Thach (South)			55	K-10	8.2	8.2	6.424	6.237	0.340	0.700	1	Good
253	Hung Vuong	Le Hong Phong	Tran Binh Trong			292	F-5			2.113	Unavailable				Good
254	Cach Mang Thang Tam	House No. 609	outlet at Bac Hai street			485	F-3			1.497	1.405	0.019	0.287	1	Good
255	Cach Mang Thang Tam	House No. 609	alley Cach Mang Thang Tam			229	F-3			1.497	0.909	0.310	1.168	2	Good
256a	alley Cach Mang Thang Tam (North)	Cach Mang Thang Tam	end of alley Cach Mang Thang Tam			156	F-2			0.803	0.560	0.310	1.882	2	Good
256b	alley Cach Mang Thang Tam (North)	alley Cach Mang Thang Tam	Outfall			17	D-1			0.560	0.288	0.310	2.131	2	Good
257	alley Cach Mang Thang Tam (South)	Cach Mang Thang Tam	end of alley Cach Mang Thang Tam			150	F-2			0.812	0.528	0.310	1.882	2	Good

Data Sheet of Drainage Network Survey by JICA in 1998 (1/4)

Station	Street Name	Street	Sewer Type	Length (m)	Dimensions			Ground Elevation (m)		Invert Elevation (m)		Average Slope (1:1000)	Condition
					HD (m)	Width (m)	Top	Inlet	Outlet	Inlet	Outlet		
1	LE VAN THO	QUANG TRUNG NGUYEN VAN LUONG HOUSE No 1167C PHAN VAN CHIEU 26 THANG 3	P P P P	650 504 545 340 95	0.6 0.8 1.0 1.0 1.0	3.75 3.75 3.75 3.75 3.75	9.957 7.124 6.295 4.628 2.553	7.124 6.295 4.628 2.553 0.803	8.907 5.964 4.475 2.828 0.803	4.39 2.16 4.57 1.62 1.62	GOOD GOOD GOOD GOOD GOOD		
2	THONG NHAT	NGUYEN VAN LUONG HOUSE No 441/A HOUSE No 802 26 THANG 3	P P P	313 424 635	0.6 0.8 1.0	3.75	10.082 9.653 6.479	9.190 7.110 4.579	7.915 7.110 4.579	1.64 5.71 6.44	FAIR FAIR FAIR		
3	26 THANG 3	LE HOANG PHAI GO VAP HOSPITAL THONG NHAT GO TO NAM THONG NHAT PHAM VAN CHIEU	P P P P P	589 530 20 475 117	0.6 0.6 0.6 0.6 0.6	3.75	6.621 5.785 2.257 6.195 4.078	5.785 4.953 2.257 6.195 4.078	7.571 6.737 4.953 6.195 4.078	1.937 1.786 2.70 2.30 2.19	FAIR FAIR FAIR FAIR FAIR		
4A	QUANG TRUNG	NGUYEN VAN LUONG LE VAN THO THOI HOA PAGODA BUILDING MATERIAL STORE N 97 HOUSE No 515 HOUSE No 3M/D PHAM VAN CHIEU	P P P P P P	313 424 635 470 600	0.6 0.6 0.6 0.6 0.6	3.75	10.082 9.653 6.479 6.195 4.078	9.190 7.110 4.579 6.195 4.078	7.915 7.110 4.579 6.195 4.078	1.64 5.71 6.44 6.44 2.19	FAIR FAIR FAIR FAIR FAIR		
4B	QUANG TRUNG	NGUYEN VAN LUONG LE VAN THO THOI HOA PAGODA STOR MATERIAL BUILD N 27 HOUSE No 515 HOUSE No 499B3 PHAM VAN CHIEU	P P P P P P	622 422 521 430 470 600	0.6 0.6 0.6 0.6 0.6 0.6	3.75	10.082 9.653 6.479 6.195 4.078	9.190 7.110 4.579 6.195 4.078	7.915 7.110 4.579 6.195 4.078	1.64 5.71 6.44 6.44 2.19	FAIR FAIR FAIR FAIR FAIR		
5	PHAN VAN TRI	THONG NHAT HOUSE No 20A HOUSE No 117 NGUYEN DANH	P P P P	521 430 470 600	0.6 0.6 0.6 0.6	3.75	10.082 9.653 6.479 6.195	9.190 7.110 4.579 6.195	7.915 7.110 4.579 6.195	1.64 5.71 6.44 6.44	FAIR FAIR FAIR FAIR		
6	NGUYEN DANH	NGUYEN THAI SON 5 DIRECTION HOUSE No 792 HOUSE No 789/A HOUSE No 786	P P P P P	274 274 274 274 274	0.6 0.6 0.6 0.6 0.6	3.75	10.082 9.653 6.479 6.195 4.078	9.190 7.110 4.579 6.195 4.078	7.915 7.110 4.579 6.195 4.078	1.64 5.71 6.44 6.44 2.19	FAIR FAIR FAIR FAIR FAIR		
7	PHAM NGU LAO	NGUYEN THAI SON LY THUONG KIET 5 DIRECTION HOUSE No 792 HOUSE No 789/A HOUSE No 786	P P P P P P	274 274 274 274 274 274	0.6 0.6 0.6 0.6 0.6 0.6	3.75	10.082 9.653 6.479 6.195 4.078	9.190 7.110 4.579 6.195 4.078	7.915 7.110 4.579 6.195 4.078	1.64 5.71 6.44 6.44 2.19	FAIR FAIR FAIR FAIR FAIR		
7B	NGUYEN NIEM	NGUYEN THAI SON 5 DIRECTION HOUSE No 792 HOUSE No 789/A HOUSE No 786	P P P P P	274 274 274 274 274	0.6 0.6 0.6 0.6 0.6	3.75	10.082 9.653 6.479 6.195 4.078	9.190 7.110 4.579 6.195 4.078	7.915 7.110 4.579 6.195 4.078	1.64 5.71 6.44 6.44 2.19	FAIR FAIR FAIR FAIR FAIR		
8	NGUYEN THAI SON	NGUYEN THAI SON 5 DIRECTION HOUSE No 792 HOUSE No 789/A HOUSE No 786	P P P P P	274 274 274 274 274	0.6 0.6 0.6 0.6 0.6	3.75	10.082 9.653 6.479 6.195 4.078	9.190 7.110 4.579 6.195 4.078	7.915 7.110 4.579 6.195 4.078	1.64 5.71 6.44 6.44 2.19	FAIR FAIR FAIR FAIR FAIR		
9	NO TRANG LONG	NGUYEN THAI SON 5 DIRECTION HOUSE No 792 HOUSE No 789/A HOUSE No 786	P P P P P	274 274 274 274 274	0.6 0.6 0.6 0.6 0.6	3.75	10.082 9.653 6.479 6.195 4.078	9.190 7.110 4.579 6.195 4.078	7.915 7.110 4.579 6.195 4.078	1.64 5.71 6.44 6.44 2.19	FAIR FAIR FAIR FAIR FAIR		
10A	NO VIET NGHI TINH	NGUYEN THAI SON 5 DIRECTION HOUSE No 792 HOUSE No 789/A HOUSE No 786	P P P P P	274 274 274 274 274	0.6 0.6 0.6 0.6 0.6	3.75	10.082 9.653 6.479 6.195 4.078	9.190 7.110 4.579 6.195 4.078	7.915 7.110 4.579 6.195 4.078	1.64 5.71 6.44 6.44 2.19	FAIR FAIR FAIR FAIR FAIR		
10B	NO VIET NGHI TINH	NGUYEN THAI SON 5 DIRECTION HOUSE No 792 HOUSE No 789/A HOUSE No 786	P P P P P	274 274 274 274 274	0.6 0.6 0.6 0.6 0.6	3.75	10.082 9.653 6.479 6.195 4.078	9.190 7.110 4.579 6.195 4.078	7.915 7.110 4.579 6.195 4.078	1.64 5.71 6.44 6.44 2.19	FAIR FAIR FAIR FAIR FAIR		
10C	TOU STREET	NGUYEN THAI SON 5 DIRECTION HOUSE No 792 HOUSE No 789/A HOUSE No 786	P P P P P	274 274 274 274 274	0.6 0.6 0.6 0.6 0.6	3.75	10.082 9.653 6.479 6.195 4.078	9.190 7.110 4.579 6.195 4.078	7.915 7.110 4.579 6.195 4.078	1.64 5.71 6.44 6.44 2.19	FAIR FAIR FAIR FAIR FAIR		
11	NO VIET NGHI TINH	NGUYEN THAI SON 5 DIRECTION HOUSE No 792 HOUSE No 789/A HOUSE No 786	P P P P P	274 274 274 274 274	0.6 0.6 0.6 0.6 0.6	3.75	10.082 9.653 6.479 6.195 4.078	9.190 7.110 4.579 6.195 4.078	7.915 7.110 4.579 6.195 4.078	1.64 5.71 6.44 6.44 2.19	FAIR FAIR FAIR FAIR FAIR		
11A	NATIONAL HIGHWAY	NGUYEN THAI SON 5 DIRECTION HOUSE No 792 HOUSE No 789/A HOUSE No 786	P P P P P	274 274 274 274 274	0.6 0.6 0.6 0.6 0.6	3.75	10.082 9.653 6.479 6.195 4.078	9.190 7.110 4.579 6.195 4.078	7.915 7.110 4.579 6.195 4.078	1.64 5.71 6.44 6.44 2.19	FAIR FAIR FAIR FAIR FAIR		
11B	NATIONAL HIGHWAY	NGUYEN THAI SON 5 DIRECTION HOUSE No 792 HOUSE No 789/A HOUSE No 786	P P P P P	274 274 274 274 274	0.6 0.6 0.6 0.6 0.6	3.75	10.082 9.653 6.479 6.195 4.078	9.190 7.110 4.579 6.195 4.078	7.915 7.110 4.579 6.195 4.078	1.64 5.71 6.44 6.44 2.19	FAIR FAIR FAIR FAIR FAIR		
12	NO VIET NGHI TINH	NGUYEN THAI SON 5 DIRECTION HOUSE No 792 HOUSE No 789/A HOUSE No 786	P P P P P	274 274 274 274 274	0.6 0.6 0.6 0.6 0.6	3.75	10.082 9.653 6.479 6.195 4.078	9.190 7.110 4.579 6.195 4.078	7.915 7.110 4.579 6.195 4.078	1.64 5.71 6.44 6.44 2.19	FAIR FAIR FAIR FAIR FAIR		
12A	THANH DA DOMITORY	NGUYEN THAI SON 5 DIRECTION HOUSE No 792 HOUSE No 789/A HOUSE No 786	P P P P P	274 274 274 274 274	0.6 0.6 0.6 0.6 0.6	3.75	10.082 9.653 6.479 6.195 4.078	9.190 7.110 4.579 6.195 4.078	7.915 7.110 4.579 6.195 4.078	1.64 5.71 6.44 6.44 2.19	FAIR FAIR FAIR FAIR FAIR		
12B	THANH DA DOMITORY	NGUYEN THAI SON 5 DIRECTION HOUSE No 792 HOUSE No 789/A HOUSE No 786	P P P P P	274 274 274 274 274	0.6 0.6 0.6 0.6 0.6	3.75	10.082 9.653 6.479 6.195 4.078	9.190 7.110 4.579 6.195 4.078	7.915 7.110 4.579 6.195 4.078	1.64 5.71 6.44 6.44 2.19	FAIR FAIR FAIR FAIR FAIR		
12C	THANH DA DOMITORY	NGUYEN THAI SON 5 DIRECTION HOUSE No 792 HOUSE No 789/A HOUSE No 786	P P P P P	274 274 274 274 274	0.6 0.6 0.6 0.6 0.6	3.75	10.082 9.653 6.479 6.195 4.078	9.190 7.110 4.579 6.195 4.078	7.915 7.110 4.579 6.195 4.078	1.64 5.71 6.44 6.44 2.19	FAIR FAIR FAIR FAIR FAIR		
12K	THANH DA DOMITORY	NGUYEN THAI SON 5 DIRECTION HOUSE No 792 HOUSE No 789/A HOUSE No 786	P P P P P	274 274 274 274 274	0.6 0.6 0.6 0.6 0.6	3.75	10.082 9.653 6.479 6.195 4.078	9.190 7.110 4.579 6.195 4.078	7.915 7.110 4.579 6.195 4.078	1.64 5.71 6.44 6.44 2.19	FAIR FAIR FAIR FAIR FAIR		
12P	THANH DA DOMITORY	NGUYEN THAI SON 5 DIRECTION HOUSE No 792 HOUSE No 789/A HOUSE No 786	P P P P P	274 274 274 274 274	0.6 0.6 0.6 0.6 0.6	3.75	10.082 9.653 6.479 6.195 4.078	9.190 7.110 4.579 6.195 4.078	7.915 7.110 4.579 6.195 4.078	1.64 5.71 6.44 6.44 2.19	FAIR FAIR FAIR FAIR FAIR		
12H	THANH DA DOMITORY	NGUYEN THAI SON 5 DIRECTION HOUSE No 792 HOUSE No 789/A HOUSE No 786	P P P P P	274 274 274 274 274	0.6 0.6 0.6 0.6 0.6	3.75	10.082 9.653 6.479 6.195 4.078	9.190 7.110 4.579 6.195 4.078	7.915 7.110 4.579 6.195 4.078	1.64 5.71 6.44 6.44 2.19	FAIR FAIR FAIR FAIR FAIR		
13	DIEN BINH PHU	NGUYEN THAI SON 5 DIRECTION HOUSE No 792 HOUSE No 789/A HOUSE No 786	P P P P P	274 274 274 274 274	0.6 0.6 0.6 0.6 0.6	3.75	10.082 9.653 6.479 6.195 4.078	9.190 7.110 4.579 6.195 4.078	7.915 7.110 4.579 6.195 4.078	1.64 5.71 6.44 6.44 2.19	FAIR FAIR FAIR FAIR FAIR		
14	DIEN BINH PHU ALLEY	NGUYEN THAI SON 5 DIRECTION HOUSE No 792 HOUSE No 789/A HOUSE No 786	P P P P P	274 274 274 274 274	0.6 0.6 0.6 0.6 0.6	3.75	10.082 9.653 6.479 6.195 4.078	9.190 7.110 4.579 6.195 4.078	7.915 7.110 4.579 6.195 4.078	1.64 5.71 6.44 6.44 2.19	FAIR FAIR FAIR FAIR FAIR		
15	NO VIET NGHI TINH	NGUYEN THAI SON 5 DIRECTION HOUSE No 792 HOUSE No 789/A HOUSE No 786	P P P P P	274 274 274 274 274	0.6 0.6 0.6 0.6 0.6	3.75	10.082 9.653 6.479 6.195 4.078	9.190 7.110 4.579 6.195 4.078	7.915 7.110 4.579 6.195 4.078	1.64 5.71 6.44 6.44 2.19	FAIR FAIR FAIR FAIR FAIR		
16	NGUYEN VAN LAC & NGO TAT TO	NGUYEN VAN LAC NGO TAT TO NGUYEN VAN HAN NGO TAT TO NGUYEN VAN HAN NGO TAT TO	P P P P P P	195 24 464 190 101 204	0.6 0.6 0.6 0.6 0.6 0.6	3.75	10.082 9.653 6.479 6.195 4.078	9.190 7.110 4.579 6.195 4.078	7.915 7.110 4.579 6.195 4.078	1.64 5.71 6.44 6.44 2.19	FAIR FAIR FAIR FAIR FAIR FAIR		
17	NGUYEN VAN LAC & NGUYEN VAN THOI	NGUYEN VAN LAC NGUYEN VAN THOI NGUYEN VAN HAN NGO TAT TO NGUYEN VAN HAN NGO TAT TO	P P P P P P	195 24 464 190 101 204	0.6 0.6 0.6 0.6 0.6 0.6	3.75	10.082 9.653 6.479 6.195 4.078	9.190 7.110 4.579 6.195 4.078	7.915 7.110 4.579 6.195 4.078	1.64 5.71 6.44 6.44 2.19	FAIR FAIR FAIR FAIR FAIR FAIR		
18	NO VIET NGHI TINH	NGUYEN THAI SON 5 DIRECTION HOUSE No 792 HOUSE No 789/A HOUSE No 786	P P P P P	274 274 274 274 274	0.6 0.6 0.6 0.6 0.6	3.75	10.082 9.653 6.479 6.195 4.078	9.190 7.110 4.579 6.195 4.078	7.915 7.110 4.579 6.195 4.078	1.64 5.71 6.44 6.44 2.19	FAIR FAIR FAIR FAIR FAIR		
19	CONG HOA	HOANG VAN THU HOUSE No 48 HOUSE No 130B HOANG HOA THAM JOINT VENTURE CAR HOA BINH HOUSE No 130B HOUSE No 1313 COMPANY 427	P P P P P P P	150 305 405 586 155 260	0.6 0.6 0.6 0.6 0.6 0.6	3.75	10.082 9.653 6.479 6.195 4.078	9.190 7.110 4.579 6.195 4.078	7.915 7.110 4.579 6.195 4.078	1.64 5.71 6.44 6.44 2.19	FAIR FAIR FAIR FAIR FAIR FAIR FAIR		
20	HOANG HOA THAM	HOANG HOA THAM (REVOLUTION ALLEY)	P	612	0.6	3.75	10.082	9.190	7.915	1.64	FAIR		
21	CACH MANG THANG 8	HOANG HOA THAM HOANG HOA THAM HOANG VAN THU CACH MANG THANG 8	P P P P	605 717 218 262	0.6 0.6 0.6 0.6	3.75	10.082 9.653 6.479 6.195	9.190 7.110 4.579 6.195	7.915 7.110 4.579 6.195	1.64 5.71 6.44 6.44	FAIR FAIR FAIR FAIR		
22A	HOANG VAN THU & HIEP NHAT	HOANG VAN THU HIEP NHAT HOANG VAN THU HOANG VIET	P P P P	421 414 421 315	0.6 0.6 0.6 0.6	3.75	10.082 9.653 6.479 6.195	9.190 7.110 4.579 6.195	7.915 7.110 4.579 6.195	1.64 5.71 6.44 6.44	FAIR FAIR FAIR FAIR		
22B	TRUONG NON	HOANG HOA THAM HOANG HOA THAM HOANG VAN THU HOANG VIET	P P P P	612 605 717 218	0.6 0.6 0.6 0.6	3.75	10.082 9.653 6.479 6.195	9.190 7.110 4.579 6.195	7.915 7.110 4.579 6.195	1.64 5.71 6.44 6.44	FAIR FAIR FAIR FAIR		
27B	TRUONG NON	HOANG HOA THAM HOANG HOA THAM HOANG VAN THU HOANG VIET	P P P P	612 605 717 218	0.6 0.6 0.6 0.6	3.75	10.082 9.653 6.479 6.195	9.190 7.110 4.579 6.195	7.915 7.110 4.579 6.195	1.64 5.71 6.44 6.44	FAIR FAIR FAIR FAIR		
28	TRUONG NON	HOANG HOA THAM HOANG HOA THAM HOANG VAN THU HOANG VIET	P P P P	612 605 717 218	0.6 0.6 0.6 0.6	3.75	10.082 9.653 6.479 6.195	9.190 7.110 4.579 6.195	7.915 7.110 4.579 6.195	1.64 5.71 6.44 6.44	FAIR FAIR FAIR FAIR		

Data Sheet of Drainage Network Survey by JICA in 1998 (2/4)

Notation	Street Name	Stretch	Newer Type (Type/ID)	Length (m)	Dimensions			Ground Elevation (m)		Invert Elevation (m)		Average Slope (1/1000)	Condition
					HD (m)	Bottom	Top	Inlet	Outlet	Inlet	Outlet		
27	ĐƯỜNG XUAN	LI VAN SI PHAM VAN HAI	P P	350 576	0.6 0.8	0.8 0.8	3.831 4.636	4.846 5.788	3.871 4.846	3.846 4.846	0.04 0.51	FAIR FAIR	
28	PHAM VAN HAI	PHAM VAN HAI THE ONG LA BRIDGE (THIS OUTLET)	P P	536	0.8	0.8	3.888	4.846	3.888	4.846	1.00	FAIR	
29	HOANG VAN THU	HOANG VAN THU HOTEL TAN KHAI NHAT	P P	430 415	0.6 0.6	0.6 0.6	4.985 6.984	5.984 6.984	4.985 5.984	5.034 6.034	1.00 0.84	FAIR FAIR	
30	HOANG VAN THU	HOANG VAN THU HOTEL TAN KHAI NHAT	P P	230 465	0.6 0.6	0.6 0.6	5.985 6.984	5.984 6.984	4.985 5.984	4.985 5.984	2.44 2.71	FAIR FAIR	
31	PHAM DANG LUONG	PHAM DANG LUONG CROSS PHAM XICH LONG	P P	414 400	0.6 0.8	0.6 0.8	6.985 4.102	6.984 4.102	5.985 4.102	5.985 4.102	2.44 10.97	FAIR FAIR	
32	PHAM DANG LUONG BACH DANG	PHAM DANG LUONG NGUYEN HUY TUONG	P P	304 252	0.8 0.8	0.8 0.8	4.102 6.985	4.102 6.985	3.103 4.099	3.103 4.099	3.74 2.52	FAIR FAIR	
33	TRICH QUANG DUC	TRICH QUANG DUC NGUYEN HUY TUONG	P P	215 220	1.2 1.4	1.2 1.4	2.115 7.785	2.115 7.785	3.103 4.102	3.103 4.102	10.97 1.57	FAIR FAIR	
34	HOANG HOA THAM	HOANG HOA THAM NGUYEN VAN DAU	P P	399 341	0.8 0.8	0.8 0.8	5.102 6.985	5.102 6.985	4.102 5.102	4.102 5.102	2.92 4.67	FAIR FAIR	
35	TRACH DANG	TRACH DANG DINH BO LINH	P P	207 719	0.6 0.6	0.6 0.6	1.839 3.984	1.839 3.984	0.834 1.839	0.834 1.839	0.14 0.27	FAIR FAIR	
36	LE QUANG DINH	LE QUANG DINH HOANG HOA THAM	P P	400 700	0.6 0.6	0.6 0.6	4.778 4.778	4.778 4.778	3.779 4.778	3.779 4.778	0.87 0.05	FAIR FAIR	
37A	NOTRANG LONG	NOTRANG LONG NGUYEN HUY LUONG	P P	371 397	0.8 0.8	0.8 0.8	7.925 5.102	7.925 5.102	6.926 5.102	6.926 5.102	2.97 0.66	FAIR FAIR	
37B	NO TRANG LONG	NO TRANG LONG NGUYEN HUY LUONG	P P	290 619	0.4 0.4	0.4 0.4	8.017 5.796	8.017 5.796	7.017 5.796	7.017 5.796	12.46 2.19	POOR FAIR	
38	AU CO	AU CO SUBORDINATE ROUTE N 14	P P	400 700	0.6 0.6	0.6 0.6	4.778 4.778	4.778 4.778	3.779 4.778	3.779 4.778	0.87 0.05	FAIR FAIR	
39	DUOC LAP	DUOC LAP MACHINAL FACTORY	P P	402 115	0.6 1.0	0.6 1.0	5.166 4.679	5.166 4.679	4.167 5.229	4.167 5.229	1.07 1.94	FAIR GOOD	
40	HUONG LO 14 (SUBORDINATE ROUTE N 14)	HUONG LO 14 THIS OUTLET	P P	450 400	0.6 1.0	0.6 1.0	4.484 2.706	4.484 2.706	3.484 4.248	3.484 4.248	0.24 0.90	FAIR FAIR	
41	HOA BINH	HOA BINH GATE PAKT DAM SEN	P P	110 600	1.3 1.3	1.3 1.3	1.411 2.706	1.411 2.706	0.411 2.706	0.411 2.706	1.83 0.94	FAIR FAIR	
42A	ONG KHIEP	ONG KHIEP SUBORDINATE ROUTE N 14	P P	187 308	0.6 0.6	0.6 0.6	3.522 3.551	3.522 3.551	2.522 2.551	2.522 2.551	0.32 0.11	GOOD GOOD	
42B	LAM BINH THANG	LAM BINH THANG N 9 STREETS	P P	165 165	0.6 0.6	0.6 0.6	3.536 3.536	3.536 3.536	2.536 2.536	2.536 2.536	1.04 1.04	GOOD GOOD	
43	BINH THOI	BINH THOI GO TO 40M AU CO	P P	490 228	0.8 0.8	0.8 0.8	4.233 3.234	4.233 3.234	3.233 4.233	3.233 4.233	9.09 0.41	FAIR FAIR	
44	LAC LONG QUAN	LAC LONG QUAN HOA BINH	P P	30 106	0.4 0.8	0.4 0.8	1.145 3.099	1.145 3.099	0.145 3.099	0.145 3.099	2.89 3.13	FAIR FAIR	
45A/46	NGUYEN THI NHU AND TIEN PHUOC	NGUYEN THI NHU AND TIEN PHUOC (STREETS LAST)	P P	130 309	0.6 0.8	0.6 0.8	5.147 2.941	5.147 2.941	4.147 1.941	4.147 1.941	6.06 1.83	FAIR FAIR	
47	LE DAI HANH	LE DAI HANH DONG A TEXTILE ENTERPRISE	P P	648 960	0.8 1.2	0.8 1.2	2.481 4.166	2.481 4.166	1.481 3.166	1.481 3.166	0.79 0.84	FAIR FAIR	
48	DONG NAI - BAC HAI	DONG NAI - BAC HAI TU HUYEN THI NHU	P P	205 402	2.0 2.0	2.0 2.0	3.345 3.345	3.345 3.345	2.345 3.345	2.345 3.345	0.89 0.89	GOOD GOOD	
49	TO HIEU THANH	TO HIEU THANH CACH MANG THANG 8	P P	523 402	2.0 2.0	2.0 2.0	3.345 3.345	3.345 3.345	2.345 3.345	2.345 3.345	6.50 0.12	GOOD GOOD	
50	COMMAO PHU	COMMAO PHU CACH MANG THANG 8 2	P P	142 15	0.6 1.4	0.6 1.4	4.062 5.022	4.062 5.022	3.062 4.022	3.062 4.022	4.40 0.55	FAIR GOOD	
51A	CACH MANG THANG 8	CACH MANG THANG 8 HOA HUNG	P P	377 270	0.6 0.6	0.6 0.6	4.003 3.905	4.003 3.905	3.003 3.905	3.003 3.905	8.54 3.97	FAIR FAIR	
51B	CACH MANG THANG 8	CACH MANG THANG 8 HOA HUNG	P P	215 452	0.6 0.6	0.6 0.6	3.722 3.988	3.722 3.988	2.722 3.988	2.722 3.988	0.17 0.68	FAIR FAIR	
52	LY CHINH THANG	LY CHINH THANG NAM KY KHOI NGHIA	P P	215 142	0.6 0.6	0.6 0.6	4.492 4.060	4.492 4.060	3.492 4.060	3.492 4.060	4.40 4.40	FAIR FAIR	
52A	LE VAN SI	LE VAN SI RAILROADS	P P	410 639	0.8 0.6	0.8 0.6	1.719 3.316	1.719 3.316	0.719 3.316	0.719 3.316	1.95 0.18	FAIR FAIR	
52B	LE VAN SI	LE VAN SI RAILROADS	P P	365 365	0.8 0.8	0.8 0.8	2.124 3.971	2.124 3.971	1.124 3.971	1.124 3.971	6.26 8.54	FAIR FAIR	
53	HAI BA TRUNG	HAI BA TRUNG LE QUY DON	P P	142 15	1.4 1.4	1.4 1.4	4.143 5.022	4.143 5.022	3.143 4.022	3.143 4.022	2.01 0.55	FAIR FAIR	
54	VO THI SAU	VO THI SAU TRUONG DINH	P P	41 209	0.8 0.8	0.8 0.8	4.262 4.388	4.262 4.388	3.262 4.388	3.262 4.388	5.22 2.51	FAIR FAIR	
55	PHAM VAN THU	PHAM VAN THU TRUONG DINH	P P	142 170	0.6 0.8	0.6 0.8	4.831 5.048	4.831 5.048	3.831 4.831	3.831 4.831	4.50 2.25	FAIR FAIR	
56	PASTEUR	PASTEUR NAM KY KHOI NGHIA 1	P P	152 18	0.6 1.2	0.6 1.2	4.122 2.208	4.122 2.208	3.122 2.208	3.122 2.208	17.18 2.22	FAIR GOOD	
57	NGUYEN VAN THU	NGUYEN VAN THU PHUOC KHACH HOAN	P P	158 138	0.5 0.5	0.5 0.5	7.644 8.217	7.644 8.217	6.644 7.217	6.644 7.217	1.26 2.00	FAIR FAIR	
58	LE HONG PHONG 12	LE HONG PHONG 12 HOTEL KY HOA	P P	67 238	0.8 0.8	0.8 0.8	3.150 3.431	3.150 3.431	2.150 3.431	2.150 3.431	0.18 1.23	FAIR FAIR	
59	LE HONG PHONG 2	LE HONG PHONG 2 LE HONG PHONG 2	P P	52 304	0.8 1.0	0.8 1.0	3.431 3.187	3.431 3.187	2.431 3.187	2.431 3.187	0.11 1.42	FAIR GOOD	
60	NGUYEN VAN LUU	NGUYEN VAN LUU AN DUONG VUONG	P P	432 236	0.6 0.6	0.6 0.6	4.313 3.173	4.313 3.173	3.313 4.213	3.313 4.213	3.16 1.53	FAIR FAIR	
61	NGUYEN DINH CHIEU	NGUYEN DINH CHIEU BAN CO	P P	128 196	0.6 0.6	0.6 0.6	4.445 4.717	4.445 4.717	3.445 4.717	3.445 4.717	1.42 2.76	GOOD GOOD	
62	NGUYEN VAN LUU	NGUYEN VAN LUU CONG QUYNH	P P	327 356	0.6 0.6	0.6 0.6	3.173 2.125	3.173 2.125	2.173 1.607	2.173 1.607	1.53 1.27	FAIR FAIR	

Data Sheet of Drainage Network Survey by JICA in 1998 (3/4)

Station	Street Name	Sketch	Sewer Type	Length (m)	Dimensions		Ground Elevation (m)		Invert Elevation (m)		Average Slope (1/1000)	Condition
					UD (m)	Width (m)	Inlet (m)	Outlet (m)	Inlet (m)	Outlet (m)		
58A	TONG QUYNH HO HOA HOI	From NGUYEN THI MINH HAI	P	184	0.6	4.572	4.664	4.572	4.572	0.904	4.28	GOOD
		NGUYEN TRAI	P	184	0.6	4.608	4.677	4.608	4.608	0.669	2.58	GOOD
		THAI BINH MARKET	P	195	1.5	3.372	3.471	3.372	3.372	-0.107	12.42	GOOD
		HU THIEN	P	233	1.5	2.473	2.517	2.473	2.473	-0.045	0.58	GOOD
		NGUYEN CU TRINH	P	117	1.5	1.817	1.944	1.817	1.817	-0.127	0.20	GOOD
		NGUYEN VAN CU TRINH	P	67	1.7	2.784	2.844	2.784	2.784	-0.060	1.00	GOOD
59	TRAN DINH XU	TRUNG DUONG	P	65	1.2	2.955	3.042	2.955	2.955	-0.087	0.75	GOOD
		HUNG HUNG	P	65	1.5	1.640	1.742	1.640	1.640	-0.102	2.74	GOOD
		CO GIANG	P	183	1.0	1.874	1.970	1.874	1.874	-0.096	0.51	GOOD
		CHUONG DUONG	P	183	1.0	1.779	1.812	1.779	1.779	-0.033	1.80	GOOD
		CHUONG DUONG	P	84	1.0	1.812	1.925	1.812	1.812	-0.113	7.07	POOR
60	BIEN VAN DON	BIEN NGHE CANAL (THIS OUTLET)	P	243	0.6	1.814	1.814	1.814	1.814	-0.000	3.14	GOOD
		FACTORY TABACO	P	181	0.6	1.830	1.882	1.830	1.830	-0.052	7.01	GOOD
		WHARF VAN DON	P	336	0.8	1.682	1.714	1.682	1.682	-0.032	17.18	GOOD
		NGUYEN HUE SCHOOL	P	156	0.8	1.914	1.923	1.914	1.914	0.009	0.90	GOOD
		TON THAT THUYET	P	44	0.8	1.923	1.917	1.923	1.923	-0.006	5.32	GOOD
		NGUYEN HUE SCHOOL	P	130	0.8	1.923	1.917	1.923	1.923	-0.006	0.21	GOOD
		TON THAT THUYET	P	44	0.8	1.771	1.859	1.771	1.771	-0.088	4.04	GOOD
		TON THAT THUYET	P	27	0.6	1.804	2.455	1.804	1.804	-0.651	1.61	NEW
60A	KHANH HOI	TON THAT THUYET	P	123	0.6	0.609	2.055	0.609	0.609	-1.446	3.80	NEW
		THE KHANH HOI BRIDGE 2 (THIS OUTLET)	P	362	0.6	2.055	0.813	2.055	2.055	-1.242	0.99	NEW
		STREET 14	P	206	0.6	2.107	0.813	2.107	2.107	-1.294	1.75	NEW
		VAN DON WHARF	P	257	0.6	1.826	2.853	1.826	1.826	-1.027	1.55	NEW
		THE KHANH HOI BRIDGE 2 (THIS OUTLET)	P	123	0.6	0.609	2.055	0.609	0.609	-1.446	3.80	NEW
		STREET 14	P	106	0.6	2.029	0.799	2.029	2.029	-1.330	2.80	NEW
		VAN DON WHARF	P	71	0.6	1.903	0.823	1.903	1.903	-1.080	0.60	FAIR
		LE VAN LINH	P	603	0.6	1.645	1.789	1.645	1.645	-0.144	0.46	FAIR
		BIEN NGHE CANAL (THIS OUTLET)	P	330	1.2	2.169	1.430	2.169	2.169	-0.739	5.40	GOOD
		HOANG DIEU	P	193	0.6	2.293	1.598	2.293	2.293	-0.695	2.51	GOOD
		DOAN VAN BO	P	30	0.8	1.058	2.743	1.058	1.058	-1.685	5.77	FAIR
		BIEN NGHE CANAL (THIS OUTLET)	P	410	0.6	2.743	1.871	2.743	2.743	-0.872	1.41	FAIR
		HOANG DIEU	P	320	0.8	1.971	0.935	1.971	1.971	-0.936	0.61	FAIR
		TON DAN	P	418	0.8	1.935	2.314	1.935	1.935	-0.379	1.77	FAIR
		NGUYEN HUE SCHOOL	P	785	0.8	2.314	1.925	2.314	2.314	-0.389	1.36	FAIR
		NGUYEN VAN BO	P	179	0.8	1.689	1.895	1.689	1.689	-0.206	0.84	FAIR
		DOAN VAN BO	P	580	0.8	1.895	1.926	1.895	1.895	-0.031	0.46	FAIR
		TON THAT THUYET	P	34	0.8	1.926	1.71	1.926	1.926	-0.215	0.10	FAIR
		TON THAT THUYET	P	30	0.8	1.823	1.71	1.823	1.823	-0.112	0.10	FAIR
		DOAN VAN BO 1	P	182	0.6	1.981	1.981	1.981	1.981	0.000	0.27	GOOD
		DOAN VAN BO 2	P	20	0.6	1.681	1.720	1.681	1.681	-0.039	2.95	GOOD
		ALLEY 200	P	456	1.0	1.720	1.900	1.720	1.720	-0.180	1.40	GOOD
		TON THAT THUYET	P	343	1.0	1.900	1.378	1.900	1.900	-0.522	0.27	GOOD
		TON THAT THUYET	P	55	1.0	1.378	1.313	1.378	1.378	-0.065	2.27	GOOD
		TON THAT THUYET	P	269	0.6	1.739	1.890	1.739	1.739	-0.151	1.69	FAIR
		TON DAN	P	410	0.6	1.831	0.801	1.831	1.831	-1.030	0.12	FAIR
		CLASS COMPANY	P	480	0.6	1.801	0.901	1.801	1.801	-0.900	0.18	FAIR
		NGUYEN THAN HIEN	P	470	0.6	1.981	0.889	1.981	1.981	-1.092	0.02	FAIR
		TON THAT THUYET	P	57	1.5	1.981	1.908	1.981	1.981	-0.073	11.56	FAIR
		TON THAT THUYET	P	45	0.8	1.721	1.963	1.721	1.721	-0.242	0.70	GOOD
		TON THAT THUYET	P	44	0.8	1.863	2.199	1.863	1.863	-0.336	1.75	GOOD
		NGUYEN TAT THANH	P	267	0.6	1.863	1.803	1.863	1.863	-0.060	5.41	GOOD
		NGUYEN TAT THANH	P	347	0.6	2.040	1.803	2.040	2.040	-0.237	1.77	GOOD
		NGUYEN TAT THANH	P	55	0.6	1.800	1.800	1.800	1.800	0.000	5.02	GOOD
		DOAN VAN BO	P	1767	0.6	1.800	1.800	1.800	1.800	0.000	5.02	GOOD
		NGUYEN TAT THANH	P	227	0.6	1.767	1.800	1.767	1.767	-0.033	1.14	GOOD
		HUNG VUONG	P	215	0.6	4.550	4.667	4.550	4.550	-0.117	1.15	GOOD
		TRAN PHU	P	105	0.6	4.667	1.961	4.667	4.667	-2.706	4.72	GOOD
		AN DUONG VUONG	P	178	0.6	3.957	3.602	3.957	3.957	-0.355	3.19	GOOD
		NGUYEN TRAI	P	238	0.8	3.802	2.028	3.802	3.802	-1.774	1.44	GOOD
		TRAN HUNG DAO	P	275	0.8	2.028	2.215	2.028	2.028	-0.187	1.61	GOOD
		TRAN HUNG DAO	P	215	0.5	1.917	1.943	1.917	1.917	-0.026	3.51	FAIR
		BACH VAN	P	45	0.5	1.943	2.275	1.943	1.943	-0.332	0.95	FAIR
		THIS OUTLET	P	403	0.6	1.601	1.517	1.601	1.601	-0.084	1.01	GOOD
		TRAN HUNG DAO	P	171	0.6	1.517	1.601	1.517	1.517	-0.084	0.28	FAIR
		HUNG PHU	P	123	0.5	1.601	1.676	1.601	1.601	-0.075	0.78	GOOD
		BIEN NGHE CANAL	P	360	0.6	2.669	0.750	2.669	2.669	-1.919	0.28	FAIR
		DIRECTION 3 DUONG BA TRAC	P	132	0.6	1.874	1.825	1.874	1.874	-0.049	4.77	FAIR
		BIEN NGHE CANAL (THIS OUTLET)	P	331	0.8	1.825	1.688	1.825	1.825	-0.137	0.48	FAIR
		ONG LON CANAL	P	143	0.6	1.825	1.900	1.825	1.825	-0.075	0.55	FAIR
		AU DUONG LAN	P	300	0.6	2.067	1.949	2.067	2.067	-0.118	0.68	GOOD
		THE MAI BRIDGE (THIS OUTLET)	P	280	1.0	1.949	1.777	1.949	1.949	-0.172	0.08	GOOD
		HUNG PHU	P	171	0.6	1.517	1.601	1.517	1.517	-0.084	1.01	GOOD
		DIRECTION 3 DUONG BA TRAC	P	123	0.5	1.601	1.676	1.601	1.601	-0.075	0.78	GOOD
		BIEN NGHE CANAL (THIS OUTLET)	P	360	0.6	2.669	0.750	2.669	2.669	-1.919	0.28	FAIR
		ONG LON CANAL (THIS OUTLET)	P	132	0.6	1.874	1.825	1.874	1.874	-0.049	4.77	FAIR
		ONG LON CANAL	P	331	0.8	1.825	1.688	1.825	1.825	-0.137	0.48	FAIR
		TRAN HUNG DAO	P	143	0.6	1.825	1.900	1.825	1.825	-0.075	0.55	FAIR
		TRAN HUNG DAO	P	300	0.6	2.067	1.949	2.067	2.067	-0.118	0.68	GOOD
		WHARF BINH DONG	P	20	0.6	1.771	1.999	1.771	1.771	-0.228	1.10	GOOD
		TAU HU CANAL (THIS OUTLET)	P	69	0.8	1.518	1.692	1.518	1.518	-0.174	0.07	GOOD
		TAU HU CANAL (THIS OUTLET)	P	36	0.8	1.563	-0.452	1.563	-0.452	2.14	GOOD	
		TRUNG THIEN VUONG	P	31	0.8	1.698	1.874	1.698	1.698	-0.176	1.76	GOOD
		TAU HU CANAL (THIS OUTLET)	P	167	0.8	1.874	1.880	1.874	1.874	-0.006	0.98	GOOD
		HUNG PHU	P	157	0.8	1.880	1.880	1.880	1.880	0.000	1.06	GOOD
		HOANG PHU	P	132	0.6	1.880	1.880	1.880	1.880	0.000	1.06	GOOD
		HOANG PHU	P	132	0.6	1.880	1.880	1.880	1.880	0.000	1.06	GOOD
		THE PHAT TRIEN BRIDGE	P	203	0.6	1.515	1.885	1.515	1.515	-0.370	1.84	FAIR
		TRUNG THIEN VUONG	P	85	0.6	1.884	1.620	1.884	1.884	-0.264	0.42	FAIR
		ALLEY 25	P	105	0.6	1.620	2.118	1.620	1.620	-0.500	1.07	FAIR
		TAU HU CANAL (THIS OUTLET)	P	184	0.6	1.442	1.472	1.442	1.442	-0.030	1.05	GOOD
		HOUSE No 10	P	75	0.6	1.635	1.762	1.635	1.635	-0.127	0.27	FAIR
		HOUSE No 70	P	309	0.6	1.635	1.632	1.635	1.635	-0.003	0.06	FAIR
		HOUSE No 70	P	325	0.6	1.666	1.929	1.666	1.666	-0.263	0.29	FAIR
		PHAN DANG LOU SCHOOL	P	502	0.8	1.929	1.613	1.929	1.929	-0.316	0.15	FAIR
		BIEN MINH TRUC 5	P	91	0.6	1.613	1.412	1.613	1.613	-0.201	0.26	FAIR
		BIEN MINH TRUC 4	P	51	0.6	1.412	1.414	1.412	1.412	-0.002	0.25	FAIR
		THIS OUTLET	P	50	0.6	1.669	1.669	1.669				

Data Sheet of Drainage Network Survey by JICA in 1998 (4/4)

Node/Up	Street Name	Sewer Type	Length (m)	Dimensions		Ground Elevation (m)		Invert Elevation (m)		Average Slope	Condition		
				H/D (m)	Width (m)		Inlet		Outlet				
					Bottom	Top	Inlet	Outlet	Inlet			Outlet	
109	HAU GIANG	P	336	0.6		4.442	1.536	0.192	0.336	1.04	FAIR		
												AN TUONG VUONG	HAU GIANG POINT
												HAU GIANG POST	HAU GIANG POINT
												CHURCH	CHURCH
												NGUYEN VAN LUONG	NGUYEN VAN LUONG
												NHAN HOA COMPANY	NHAN HOA COMPANY
110	NGUYEN VAN LUONG	BC	305	0.6		2.214	1.397	0.534	0.407	1.26	FAIR		
												ROUNDABOUT (PHU LAM)	ROUNDABOUT (THIS OUTLET)
												HOUSE No 307	HOUSE No 307
												HAU GIANG	HAU GIANG
												HOUSE No 231D	HOUSE No 231D
												HOUSE No 183D	HOUSE No 183D
111	HUNG VUONG	P	505	0.8		1.819	1.609	-0.200	-0.133	0.26	GOOD		
												SWA (HO CHURCH)	HA LAI CANAL (THIS OUTLET)
												HV2	HA LAI CANAL (THIS OUTLET)
												HV1	HA LAI CANAL (THIS OUTLET)
												ONG DUONG CANAL (THIS OUTLET)	ONG DUONG CANAL (THIS OUTLET)
												DOUYTOKY PHU LAM	DOUYTOKY PHU LAM
112	BA HON	P	571	0.8		2.168	1.668	-0.132	-0.184	1.17	GOOD		
												AN DUONG VUONG	PHU LAM ROUNDABOUT
												DOUYTOKY PHU LAM	PHU LAM ROUNDABOUT
												AN DUONG VUONG	HOUSE No 1121
												HOUSE No 133C	DA NG NGUYEN CAN
												PHU LAM ROUNDABOUT	DA NG NGUYEN CAN
113	TAN HOA DONG	P	524	0.6		1.634	1.394	0.184	-0.356	1.01	FAIR		
												PHU LAM ROUNDABOUT	PHU LAM ROUNDABOUT
												HOUSE No 133C	HOUSE No 133C
												PHU LAM ROUNDABOUT	PHU LAM ROUNDABOUT
												HOUSE No 133C	HOUSE No 133C
												PHU LAM ROUNDABOUT	PHU LAM ROUNDABOUT
114	HUNG VUONG	P	612	0.8		1.169	1.722	0.181	-0.128	0.30	GOOD		
												FACTORY SINGO	HUNG VUONG
												HUNG VUONG	HUNG VUONG
												FACTORY SINGO	FACTORY SINGO
												HUNG VUONG	HUNG VUONG
												HUNG VUONG	HUNG VUONG
115	HUNG VUONG	P	400	0.8		1.189	1.807	-0.831	-1.193	0.91	GOOD		
												FACTORY SINGO	FACTORY SINGO
												THE AN LAC BRIDGE	THE AN LAC BRIDGE (THIS OUTLET)
												FACTORY SINGO	FACTORY SINGO
												THE AN LAC BRIDGE	THE AN LAC BRIDGE
												FACTORY SINGO	FACTORY SINGO
116	HOANG THOI YEN	P	98	1.2		1.695	1.855	-0.165	-0.445	1.43	FAIR		
												TRANG TU	TRANG TU
												TRANG TU	TRANG TU
												TRANG TU	TRANG TU
												TRANG TU	TRANG TU
												TRANG TU	TRANG TU
117	HOANG THOI YEN	P	162	1.2		1.855	1.905	-0.475	-0.665	1.27	FAIR		
												PHAN VAN KHOF	PHAN VAN KHOF
												PHAN VAN KHOF	PHAN VAN KHOF
												PHAN VAN KHOF	PHAN VAN KHOF
												PHAN VAN KHOF	PHAN VAN KHOF
												PHAN VAN KHOF	PHAN VAN KHOF

Note: P: Pipe; BC: Box Culvert, T: Trapezoid