



12

ASIAN DEVELOPMENT BANK  
PROJECTS DEPARTMENT II  
P.O. BOX 789, MANILA, PHILIPPINES

-1-

QUESTIONNAIRE FOR INDIVIDUAL CONSULTANTS  
SUPPLEMENT TO CURRICULUM VITAE

DATE 19th January 78

1. NAME:

CLARKE, (Walter) George

2. MAILING ADDRESS: INDONESIA: CLARKE URBAN SYSTEMS, JALAN WILIS 2E,  
CANDI BARU, SEMARANG. TELEX 22119 TXBOOTHSM TELP. CANDI 967.  
AUSTRALIA: 28 OLPHERT AVE, VAUCLUSE, NSW, AUSTRALIA, 2030  
CA TELP. SYDNEY 3371868 & 311543

3. CABLE ADDRESS: URBSEARCH, SYDNEY / TELEX AA21643 VALAD / 22119 TXBOOTHSM  
Sydney Semarang

4. IF AFFILIATED WITH ANY ORGANIZATION, STATE ITS NAME AND ADDRESS:

CLARKE URBAN SYSTEMS

MAIL, CABLE & TELEX ADDRESSES IN INDONESIA & AUSTRALIA ABOVE

5. IF AFFILIATED AS IN NO.4 ABOVE, STATE NATURE OF SUCH AFFILIATION:

GOVERNING DIRECTOR AND CHAIRMAN

6. CONSULTING CATEGORY:

CLARKE URBAN SYSTEMS



6.1 SELF-EMPLOYED, FULL TIME INDIVIDUAL  
CONSULTANT WITH YOUR OWN PRACTICE.

incorporating companies previously known  
as URBSEARCH; URBAN SYSTEMS  
CORPORATION; and CLARKE, GAZZARD & PARTNERS



6.2 PARTNER OR PRINCIPAL OF A CONSULTING  
FIRM WHICH FIRM IS WILLING TO MAKE  
YOUR SERVICES AVAILABLE TO THE BANK  
AS AN INDIVIDUAL EXPERT.



6.3 EMPLOYEE OF FIRM OR ORGANIZATION,  
BUT HAVING THE RIGHT OF PRIVATE  
PRACTICE AS AN INDIVIDUAL CONSULTANT.



6.4 EMPLOYEE OF A FIRM OR ORGANIZATION  
WHICH FIRM OR ORGANIZATION IS WILLING  
TO MAKE YOUR SERVICES AVAILABLE TO  
THE BANK AS AN INDIVIDUAL EXPERT.



6.5 OTHER. (SPECIFY)

(NOTE: IF YOU WISH TO GIVE FURTHER DESCRIPTION OF OR TO QUALIFY YOUR ANSWERS TO QUESTION  
NOS. 5 AND NO. 6, PLEASE DO SO ON AN ATTACHED PAGE.)

7. PRINCIPAL FIELD OF INTEREST:



ENGINEERING



AGRICULTURE



ARCHITECTURE



ECONOMICS



MANAGEMENT



OTHERS (SPECIFY)

8. IN YOUR CAPACITY AS CONSULTANT, OR EXPERT, HOW DO YOU DESCRIBE YOURSELF AND YOUR SPECIFIC FIELD ?

9. IF AVAILABLE UPON A LIMITED PERIOD BASIS, CHECK THE APPROPRIATE APPROXIMATE TERMS:

ANY PERIOD



TWO WEEKS



TWO MONTHS



SIX MONTHS



ONE YEAR



ONE MONTH



FOUR MONTHS



EIGHT MONTHS



1 1/2 YEARS

10. PREFERRED COUNTRIES OF ASSIGNMENT: (IN MEMBER COUNTRIES OF ASIA AND PACIFIC)

ANY COUNTRY

11. MINIMUM PERIOD OF NOTICE REQUIRED FOR AVAILABILITY:

1 WEEK TO 1 MONTH, DEPENDING ON CIRCUMSTANCES  
AT THE TIME

12. ACTIVITIES FOR WHICH YOU ARE QUALIFIED BY EXPERIENCE: FROM THE ATTACHED SCHEDULE, SELECT THOSE ACTIVITIES IN WHICH YOU HAVE A PARTICULAR INTEREST AND FOR WHICH YOU CONSIDER YOURSELF ESPECIALLY QUALIFIED IN THE AREA WHERE THE ASIAN DEVELOPMENT BANK IS OPERATING. LIST THESE BELOW BY SYMBOLS IN DESCENDING ORDER OF PRIORITY.

PRIORITY NO.	SYMBOLS	PRIORITY NO.	SYMBOLS
1	Y3, Y4, AB122	3	Q1, Q2, Q3
2	W1, W2, W3, W4	4	D1, D3, D4

13. EXAMPLES OF EXPERIENCE:

A. PROVIDE, ON ADDITIONAL PAGES, EXAMPLES OF EXPERIENCE AGAINST EACH SYMBOL NAMED ABOVE. EXAMPLES SHOULD BE SUFFICIENTLY COMPREHENSIVE TO REFLECT YOUR EXPERIENCE AND SHOULD INCLUDE THE FOLLOWING DETAILS:

- |  |                                      |
|--|--------------------------------------|
| 1. SYMBOL                                | 5. APPROXIMATE CONSTRUCTION COST     |
| 2. NAME AND BRIEF DESCRIPTION OF PROJECT | 6. DATE OF COMPLETION                |
| 3. LOCATION                              | 7. SERVICES RENDERED                 |
| 4. NAME AND ADDRESS OF OWNER             | 8. NAMES OF ASSOCIATED FIRMS, IF ANY |

- B. PROVIDE, ON AN ADDITIONAL PAGE, INFORMATION RELATIVE TO ITEM-A ABOUT ANY RECENT PROJECT IN ASIA FOR WHICH YOU HAVE BEEN RESPONSIBLE, IF NONE, STATE  
**WORLD BANK URBAN DEVELOPMENT PROJECTS, CENTRAL JAVA**
- C. DESIGNATE THOSE COUNTRIES IN WHICH YOU HAVE BEEN WORKING IN ASIA AND ELSEWHERE:  
**INDONESIA      PAPUA-NEW GUINEA      MAURITIUS**  
**IRAN              ITALY                      ENGLAND**  
**UNITED STATES                      AUSTRALIA**

14. ENCLOSE ANY BROCHURES, REPRINTS OF TECHNICAL PAPERS, OR OTHER INFORMATION WHICH YOU HAVE AVAILABLE AND WHICH SERVE TO ENLARGE ON YOUR CAPABILITIES. *See attachments*

NOTE: PERSONS COMPLETING THE QUESTIONNAIRE FOR INDIVIDUAL CONSULTANTS ARE REQUESTED TO:

1. RETURN THIS PAGE AND THE PRECEDING PAGE AS THE FIRST TWO PAGES OF THE QUESTIONNAIRE WHICH YOU SEND TO THE BANK.
2. NUMBER ALL PAGES OF THE COMPLETED QUESTIONNAIRE CONSECUTIVELY, INCLUDING THE ADDITIONAL PAGES WHICH YOU ATTACH.
3. GIVE ANSWERS TO ALL QUESTIONS ASKED, AND AS MAY BE NECESSARY, CONTINUE THE ANSWERS ON ATTACHED SHEETS OF PAPER. IN SUCH CASES, PLEASE INCLUDE THE RELEVANT PAGE NUMBER, OR NUMBERS AS A REFERENCE IN THE APPROPRIATE BLOCK ON PAGES 1 AND 2.
4. IF POSSIBLE, PLEASE AVOID BROCHURE REFERENCES IN ANSWER TO QUESTIONS 12 AND 13.

**ASIAN DEVELOPMENT BANK**  
**PROJECTS DEPARTMENT**  
P.O. BOX 789 MANILA, PHILIPPINES  
**CURRICULUM VITAE**



PLEASE ANSWER EACH QUESTION COMPLETELY. TYPE OR PRINT IN INK.  
IF CERTAIN ITEMS REQUIRE MORE SPACE, REPEAT THEIR ITEM NUMBERS  
AND CONTINUE IN PLAIN PAPER. PLS. ENCLOSE PHOTO.

1. FAMILY NAME <b>CLARKE</b>		FIRST NAME <b>Walter (not used)</b>		MIDDLE NAME <b>GEORGE</b>	
2. MAILING ADDRESS <b>CLARKE URBAN SYSTEMS JALAN WILIS 2E, CANDI BARU, SEMARANG, INDONESIA TELEX 22119 TXBOOTH SM INDONESIA</b>				TELEPHONE <b>Candi 967</b>	
3. PERMANENT ADDRESS <b>28 OLPHERT AVE, VAUCLUSE, NSW, AUSTRALIA 2030 CABLES URBSEARCH SYDNEY</b>				Sydney <b>3371863 311542</b>	
4. PLACE OF BIRTH <b>AUSTRALIA</b>	DATE OF BIRTH <b>17. FEB. 1932</b>	SEX <b>Male</b>		MARITAL STATUS <b>Married</b>	
5. A. CITIZENSHIP AT BIRTH <b>AUSTRALIAN</b>		B. CITIZENSHIP NOW <b>AUSTRALIAN</b>		IF A & B ARE DIFFERENT, ATTACH EXPLANATION	
6. GIVE THE FOLLOWING INFORMATION ABOUT PERSONS FULLY DEPENDENT UPON YOU FOR FINANCIAL SUPPORT <b>NIL</b>					
NAME		AGE		RELATIONSHIP	
—		—		—	
—		—		—	
—		—		—	
—		—		—	
7. IN WHAT COUNTRIES WOULD YOU ACCEPT EMPLOYMENT? <b>ANY COUNTRY</b>					
8. WOULD YOU ACCEPT SHORT-TERM EMPLOYMENT OF FROM 1 TO 5 MONTHS? YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> 6 TO 12 MONTHS? YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>					
9. HOW MUCH NOTICE WOULD YOU REQUIRE BEFORE REPORTING TO WORK? <b>1 WEEK TO 1 MONTH, DEPENDING ON CIRCUMSTANCES AT TIME.</b>					
10. WOULD YOU BE WILLING TO ACCEPT AN ASSIGNMENT INVOLVING A GREAT DEAL OF TRAVELLING? <b>YES</b>					
11. PRESENT STATE OF HEALTH. (NOTE: EMPLOYMENT WITH THE ADB IS DEPENDENT UPON CONFIRMATION OF YOUR MEDICAL FITNESS BY THE BANK'S MEDICAL ADVISORS.) DATE OF LAST FULL MEDICAL EXAMINATION. <b>AUGUST 1977</b> <b>EXCELLENT</b> HAVE YOU EVER HAD (A) HEART TROUBLE? <b>NO</b> (B) TUBERCULOSIS? <b>NO</b>					
12. PREFERRED LINE OF WORK AND / OR SPECIAL QUALIFICATIONS AND / OR SKILLS. <b>Y3, Y4, AB1&amp;2 / W1, W2, W3, W4 / Q1, Q2, Q3 / D1, D3, D4 / W6, B4.</b> <b>Management, economic evaluation and planning of urban &amp; regional development.</b> <b>24 years experience in policy formation and project planning for government bodies &amp; private corporations in many countries.</b>					

## 13. EDUCATION.

## A. COLLEGE OR UNIVERSITY

NAME AND PLACE	YEARS ATTENDED		DEGREES	MAIN COURSE OF STUDY
	FROM	TO		
MASSACHUSETTS	1957		Master of	Economic
INSTITUTE OF TECHNOLOGY (U.S.A.)		1959	City & Regional Planning	Development Planning.
UNIVERSITY COLLEGE, LONDON UNIVERSITY (U.K.)	1954		Diploma in Town Planning	Urban physical planning and development control.
UNIVERSITY OF SYDNEY (Australia)	1949	1953	Bachelor of Architecture	Building design & construction.

## B. OTHER FORMAL EDUCATION AND / OR TRAINING

NAME AND PLACE	YEARS ATTENDED		DIPLOMAS	TYPE OF SCHOOL
	FROM	TO		
Management Systems Inc Sydney	1970	—	SHORT COURSE - INTENSIVE.	PRIVATE

Mr. Clarke has lectured in Australian and other Universities and at professional training institutes on planning theory + practice including corporate strategic planning & MBO for Govt. agencies

14. LIST OF PROFESSIONAL SOCIETIES TO WHICH YOU BELONG & YOUR ACTIVITIES IN PUBLIC AND / OR INTERNATIONAL AFFAIRS.  
 VICE PRESIDENT 1970-78 EAST ASIAN REGIONAL ORGANISATION FOR PLANNING & HOUSING; FELLOW & PAST PRESIDENT, ROYAL AUSTRALIAN PLANNING INSTITUTE; FELLOW, ROYAL TOWN PLANNING INSTITUTE (U.K.); MEMBER, AMERICAN SOCIETY OF PLANNING OFFICIALS; WORLD SOCIETY OF EKISTICS, ETC.

LIST OF PUBLICATIONS MADE. INCLUDE PUBLISHED DATE AND PLACE OF PUBLICATION.

SEE BIBLIOGRAPHY ATTACHED HERETO ON SEPARATE SHEET

15. LANGUAGES. MOTHER TONGUE FIRST	DESCRIBE PROFICIENCY IN THE SPACES PROVIDED								
	READ			WRITE			SPEAK		
	EXCELLENT	GOOD	FAIR	EXCELLENT	GOOD	FAIR	EXCELLENT	GOOD	FAIR
ENGLISH	✓			✓			✓		
MALAY			✓			✓			✓
INDONESIAN			✓			✓			✓
FRENCH		✓			✓			✓	
ITALIAN		✓			✓			✓	

17. EMPLOYMENT RECORDS: **SEE ATTACHMENTS FOR DETAILS**  
STARTING WITH YOUR PRESENT POSITION. LIST IN REVERSED ORDER EVERY EMPLOYMENT YOU HAVE HAD. USE ADDITIONAL SHEETS OF PAPER IF REQUIRED.

A. PRESENT EMPLOYMENT	DESCRIPTION OF YOUR DUTIES
DATES OF EMPLOYMENT FROM: <u>1960</u> TO: PRESENT <u>1978</u>	Founder & Professional Director of the Clarke Urban Systems group* of consultants. Management, supervision and quality control of all professional work. Individual responsibility for major projects.
SALARIES PER ANNUM APPROX U.S. \$ STARTING <u>40-60,000</u> per annum PRESENT <u>          </u>	
NAME & ADDRESS OF EMPLOYER SELF EMPLOYED - * CLARKE URBAN SYSTEMS	
TITLE OF POSITION DIRECTOR & CHAIRMAN	
TYPE OF BUSINESS DEVELOPMENT CONSULTANT	
NAME OF SUPERVISOR CLIENTS - GOVT AGENCIES	
REASON(S) FOR LEAVING: <u>          </u>	
B. PREVIOUS POSITION	DESCRIPTION OF YOUR DUTIES
DATES OF EMPLOYMENT FROM: <u>1977</u> TO: <u>1978</u>	<u>1977-78</u> Project Director, Economic Feasibility & Detailed Engineering for Sites, Public Utility Services, Housing and Kampung Improvement Projects for Central Java, including 5 year forward program.
SALARIES PER ANNUM STARTING <u>          </u> FINAL <u>          </u>	
NAME & ADDRESS OF EMPLOYER	
TITLE OF POSITION	
TYPE OF BUSINESS	
NAME OF SUPERVISOR	
REASON(S) FOR LEAVING: * incorporating; URBSEARCH; URBAN SYSTEMS CORPORATION; CLARKE GAZZARD & PARTNERS.	
C. PREVIOUS POSITION	DESCRIPTION OF YOUR DUTIES
DATES OF EMPLOYMENT FROM: <u>          </u> TO: <u>          </u>	World Bank loan funded projects: Semarang, Solo etc Executing Agencies: Cipta Karya, Dept of Public Works; and PERUMNAS, National Urban Development Corporation, Govt of Indonesia.
SALARIES PER ANNUM STARTING <u>          </u> FINAL <u>          </u>	
NAME & ADDRESS OF EMPLOYER	
TITLE OF POSITION	
TYPE OF BUSINESS	
NAME OF SUPERVISOR	
REASON(S) FOR LEAVING:	

D. EMPLOYMENT RECORD (CONT.)		DESCRIPTION OF YOUR DUTIES
<b>DATES OF EMPLOYMENT</b> FROM: _____ TO: _____		SEE ATTACHMENTS
<b>SALARIES PER ANNUM</b> STARTING _____ FINAL _____		
NAME & ADDRESS OF EMPLOYER		
TITLE OF POSITION		
TYPE OF BUSINESS		
NAME OF SUPERVISOR		
REASON(S) FOR LEAVING:		

18. REFERENCES:

LIST THREE PERSONS, NOT RELATED TO YOU, WHO ARE FAMILIAR WITH YOUR CHARACTER AND QUALIFICATIONS. DO NOT REPEAT NAMES OF SUPERVISORS LISTED ON ITEM 17.

N A M E	F U L L A D D R E S S	P R O F E S S I O N
DR HELEN HUGHES	World Bank, Washington	Economist
The Rt Hon LEO PORT, Lord Mayor of Sydney	Sydney Town Hall Sydney, Australia 2000	Mechanical/Electrical Engineer.
The Hon. Mr Justice HAROLD GLASS	Supreme Court Chambers Sydney, Australia 2000	Lawyer & Supreme Court Judge.

19. TRAVEL: LIST PERIODS SPENT AWAY FROM YOUR HOME COUNTRY AND / OR RESIDENCE.

C O U N T R Y V I S I T E D	R E A S O N S F O R V I S I T O R R E S I D E N C E	D A T E S
ITALY	Post Grad Study - Urban, Language Studies - Perugia.	1953 - 54
ENGLAND	" Employed London County Council	1954 - 57
UNITED STATES	" Employed Providence City Council	1957 - 59
MAURITIUS	Consultant - Economic Feasibility Project Identification	1967 - 68
IRAN.	Consultant - Management & Regional Planning	1967 - 68
PAPUA-NEW GUINEA	Consultant - Urban Development	1968 - 70
INDONESIA	Consultant - World Bank Project	1976 - 78

20. STATE BRIEFLY ANY SPECIAL QUALIFICATION NOT COVERED EARLIER IN THIS APPLICATION FORM:

Have directed & managed up to 120 staff in 6 offices throughout Australasia.

Extensive experience in project identification & appraisal for major Governmental institutions and public corporations.

21. I CERTIFY THAT THE STATEMENTS MADE BY ME IN ANSWER TO THE FOREGOING QUESTIONS ARE TRUE, COMPLETE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

DATE

19th January 1978

SIGNATURE

*[Signature]*

George Clarke

PRINCIPAL PUBLICATIONS and PAPERS:

- "Policy conflicts in the Green Belt controversy", The Australian Quarterly, Journal of the Australian Institute of Political Science, Vol XXXII No 4, December 1960, pp 27 - 38.
- "Detailed Planning for Lands suspended from Sydney's Green Belt", Australian Planning Institute Journal, Vol 2 No 1, March 1962, pp 17 - 21.
- "Canberra's significance for Australian planning", Shire and Municipal Record, Vol 57, 1964, p 225 et seq.
- "Concentrated habitation and articulated groundscape", a photographic essay, Persia, India, Syria and Israel; Building Ideas, Sydney Vol 3 No 3, June 1966, pp 14.
- "Urban Form in three ancient capital cities - Esfahan (Persia), Angkor (Cambodia) and Ayuth'ya (Thailand)", Paper delivered to the Australian Planning Institute, Sydney, June 17, 1966.
- "The historic tradition and future potential of urbanism in Iran", Iran Municipal Association Journal, (in Farsi) 1968, pp 20 - 27.
- (Co-author and editor) "A critique of intergovernmental relations affecting the Sydney Region", Australian Planning Institute Journal, Vol 6 No 1, January 1966, pp 5 - 13.
- "Urban Australia", Chapter 3, Australian Society, 2nd Edition, Davies & Encel (eds), Cheshire, Melbourne, 1970; 17 tables, 2 figs, 4 maps, pp 31 - 83.
- "Administrative Discretion in the urban planning and development fields", Public Administration, Royal Institute of Public Administration, Sydney, Vol XXIX No 2, June 1970, pp 129 - 144.
- "Planning as a community learning process", Proceedings: Governments in Planning, 12th Congress, Royal Australian Planning Institute, Brisbane, 1972, pp 14.
- "Metro Towns and Corridor Growth", Paper delivered to the Urban Land Institute of Australia, Melbourne, February 17, 1972.
- "Management and planning in city government", Paper delivered at Australian Institute of Management Seminar, Sydney, March 7, 1972.

**Asian Development Bank**

**19.1.78**

**Attachments to Individual Curriculum Vitae and  
Questionnaire for Individual Consultants**

**CLARKE, (WALTER) GEORGE**

**Examples of Experience, listed in accord with ADB requirements, of George Clarke, of Clarke Urban Systems (previously known as Urban Systems Corporation, Urbsearch and Clarke Gazzard & Partners).**

**EXAMPLE A**

**1. Symbols: - Y-3 URBAN DEVELOPMENT; (Y-4 City Planning; W-1 Management Study; D-1 Municipal Water Supply; D-3 Sewage Disposal; D-4 Waste Disposal.)**

**2. Name & Description: - The City of Blue Mountains Strategic Conservation and Development Management and Planning Process. Comprehensive surveys and analyses of demographic and urban development trends, previous attempts at planning, pollution created by inadequate sewage and waste collection and disposal systems, erosion caused by bad drainage practices, and threats to conservation areas. Postulation of 5 Alternative Futures to the year 2000. Cost-benefit analyses of alternatives. Public exhibition, discussion and debate. Preparation of Objectives, Policies and Priorities for Action under the following headings:-**

**Management**

**Co-ordination  
Capital Budgeting  
Statutory Powers**

**Commercial Development**

**Employment  
Tourism  
Town Centre Precincts**

**Conservation**

**Pollution Control  
Environmental Design  
Preservation**

**Living Areas**

**Utility Services  
Residential Development  
Community Facilities**



## 5. Transport Survey and Traffic Studies

USC has carried out a number of traffic and transportation studies in the past. These studies have been carried out in connection with the planning and development of urban areas, housing and industrial estates. However, USC is not primarily a traffic and transportation consultancy. USC specializes in comprehensive urban and regional development research, planning and design. USC therefore carries a small traffic and transport engineering capability, and engages specialist traffic and transportation analysts and planners to carry excess workload or highly specialized analysis or planning. In this regard, USC has worked, and works, closely with Alan M. Voorhees and Associates.

### Question 10 - Examples of Urban Systems Corporation Experience:

The examples of Urban Systems Corporation projects carried out under the terms of Urban Systems Corporation, the original firm from which Urban Systems Corporation has grown.

3. Location: - The City of Blue Mountains covers 1,400 square kilometers of hill country 50 to 100 km inland from Sydney.

4. Clients: - The Blue Mountains City Council, and the Australian Government's Department of Urban & Regional Development.

5. Scale: - USC contribution: 150 man months.

6. Completion: - December, 1975.

7. Services Provided: - Comprehensive surveys and analyses of social, economic, demographic, physical, environmental, land use, sanitation and pollution, legal and administrative problems and potentials. Postulation and quantification of 5 Alternative Futures. Cost-benefit analyses (qualitative). Public exhibitions and discussions. Distillation of a broad strategic plan for conservation and development, and a formal statement of 4 Objectives, 12 Policies and 83 Priorities for Action. Design of Capital Budgeting system, and new management procedures. Determination of policies and priorities for action on sewage and other waste collection and disposal.

8. Associated Organisations: - No other consultants, but liaison with all Municipal Departments and all relevant State (Provincial) and National Government authorities.

#### EXAMPLE B

1. Symbols: - Y-3 URBAN DEVELOPMENT; (Y-4 City Planning; W-1 Management Study; W-2 Economic Studies; W-3 Market Surveys; B-4 Traffic Studies; W-6 Transport Surveys; Y-1 Buildings; Y-2 Landscape Architecture; also Drafting of Urban Planning and Development Control Legislation).

2. Name & Description: - The comprehensive City of Adelaide Plan 1974; the draft City of Adelaide Environment Bill, 1976; Development Control Performance Standards, Codes and Regulations; Action Projects for urban improvement, conservation, rehabilitation and redevelopment, including housing for the lowest income groups; Transportation, traffic and parking plans.

3. Location: - The City of Adelaide, capital city of the State of South Australia.

4. Clients: - The Adelaide City Council and the Premier of South Australia.

5. Scale: - USC contribution: 180 man months.

6. Completion: - June, 1974.

7. Services Provided: - Comprehensive research, planning and design, in all matters listed under Item 2 above, including organisation of all field surveys; public exhibitions, publications, and discussion processes; writing of draft legislation; carrying out of the first demonstration action projects.

8. Associated Organisations: - No other consultant firms, but liaison with all City Council, State (Provincial) and National Government Departments.

EXAMPLE C

1. Symbols: - Y-3 URBAN DEVELOPMENT (Y-4 City Planning; W-1 Management Studies; W-2 Economic Studies; W-3 Market Surveys; B-4 Traffic Studies; W-6 Transport Surveys).

2. Name & Description: - The City of Sydney Strategic Plan 1971-74; and Action Plans to implement that Plan; The City of Sydney Strategic Plan 1974-77.

3. Location: - The City of Sydney, capital of the State of New South Wales.

4. Client: - The Sydney City Council.

5. Scale: - USC contribution; 250 man months over 5 years, 1969-74.

6. Completion: - Staged completion of successive elements 1970-74.

7. Services Provided: - Comprehensive research, planning and design for all aspects of city development, conservation, planning, development control, regulation, management and administration, under the following headings:-

MANAGEMENT

Administration  
City Structure  
Law  
Finance

ACCESSIBILITY

Public Transport  
Roads  
Parking  
Pedestrians

DIVERSITY

Residential  
Commercial Services  
Community Services  
Leisure & Learning

ENVIRONMENT

Preservation  
Urban Design  
Open Space  
Pollution Control

Also detailed action plans for particular decayed precincts of mixed residential, commercial, industrial and entertainment uses.

Review and revision of development control policies, standards, codes, regulations and procedures.

8. Associated Organisations: 1970/71: W. D. Scott & Co.; McConnell Smith & Johnson; 1972-75: No other consultant firms.

#### EXAMPLE D

1. Symbols: Y-3 URBAN DEVELOPMENT (W-2 Economic Studies; W-3 Market Surveys; D-1 Municipal Water Supply; D-3 Sewage Disposal).

2. Name & Description: Mauritius Economic Development and Investment Survey: Evaluation of economic growth potential of Mauritius and recommendations on preferred investment fields and specific projects.

3. Location: Mauritius.

4. Client: Anglo-Mauritius Insurance Company, Port Louis, Mauritius.

5. Scale: USC contribution: 15 man months.

6. Completion: 1967

7. Services Provided: Comprehensive social, economic and physical surveys; analyses and projections of urbanization in Mauritius; recommendations for investment procedures, and specific on-site projects in housing, industrial and commercial fields.

8. Associated Organizations: J. Lois Levieux, Surveyor.

#### EXAMPLE E

1. Symbols: Y-3 URBAN DEVELOPMENT (Y-4 City Planning; W-1 Management Study).

2. Name & Description: Sazeman Barnameh - Iranian National Planning Organization: Comparative analyses and studies, and specific recommendations on the establishment of a practical system for the guidance of urbanization and the management and control of urban land development throughout Iran.

3. Location: Iran.

4. Client: Government of Iran Sazeman Barnameh (National Economic Program/Plan Organization), Tehran, Iran.

5. Scale: USC contribution: 9 man months.

6. Completion: 1968.

7. Services Provided: Review of urban development throughout Iran, Comparative studies of alternative philosophies, systems and techniques of urban development management, city planning, and inter-governmental relations, in different developing and developed countries throughout the world; meetings, discussions and educational briefings with Iranian government personnel; recommendation of proposed legal, management, administrative and staffing structure for urban development management at national, provincial and municipal levels.

8. Associated Organizations: Kamesh, Iranian Research and Planning Consultants; Iran Municipal Association.

EXAMPLE F

1. Symbols: Y-3 URBAN DEVELOPMENT.

2. Name & Description: June Valley Project: Urban extension for Port Moresby, New Guinea, for approximately 8,000 indigenous residents, together with all community facilities.

3. Location: June Valley, Port Moresby, New Guinea.

4. Client: Housing Commission, Port Moresby, Territory of Papua New Guinea.

5. Scale: USC contribution: 24 man months.

6. Completion: 1975.

7. Services Provided: Outline and detailed design work for all sites and services; preliminary utility services layout; preliminary survey calculations.

8. Associated Organizations: Willing, English and Devin, Consulting Engineers.

EXAMPLE C

1. Symbols: Y-3 URBAN DEVELOPMENT (Y-4 City Planning).

2. Name & Description: New town and Arwa New Town. New towns developed in association with major copper-mining project on Bougainville Island, New Guinea. Kaporong located in high, mountainous terrain and accommodating about 2,500 people. Arwa located on the coast and accommodating about 12,000 people.

3. Location: Bougainville, New Guinea.

4. Client: Councils District of Australia, Melbourne, Victoria.

5. Cost: \$20 million.

6. Completion: 1972.

7. Services Provided: Outline urban planning; residential sites and services planning; architectural design and documentation of all community facilities; design and construction advice on housing.

8. Associated Organizations: Gutteridge, Harman and Davey, Consulting Engineers; Vallentyne, Harris and Davis, Surveyors.

EXAMPLE D

1. Symbols: Y-3 URBAN DEVELOPMENT (Y-4 City Planning).

2. Name & Description: Colonially New Town: New urban service centre developed in conjunction with development of Colonially Irrigation Area in Southern New South Wales.

3. Location: Colonially, New South Wales.

4. Client: Murrumbidgee Shire Council, Berrington Point, New South Wales.

5. Cost: \$2.5 million.

6. Completion: 1980.

7. Services Provided: Economic base studies; population estimates; detailed planning for complete town, including all sites and utilities; services; capital budget; detailed design and construction supervision of first stage; detailed design of water tower (winner of architectural design award).

8. Associated Organizations: Willing, English and Devin, Consulting Engineers; Smith, More and Keown, Surveyors.

EXAMPLE I

1. Symbols: Y-3 URBAN DEVELOPMENT (Y-4 City Planning).

2. Name & Description: Oro Bay New Town: Satellite town associated with new port facilities to be constructed on north coast of New Guinea.

3. Location: Oro Bay, New Guinea.

4. Client: Department of Lands, New Guinea.

5. Cost: Not yet determined.

6. Completion: Not yet determined.

7. Services Provided: Socio-economic feasibility studies; demographic projections; land classification and evaluation; land use planning; transportation and utilities planning.

8. Associated Organizations: Willing, English and Devin, Consulting Engineers.

EXAMPLE J

1. Symbols: Y-3 URBAN DEVELOPMENT (Y-4 City Planning; W-1 Management Study).

2. Name & Description: Victorian State Planning Organization: Analysis of metropolitan growth patterns in Victoria and projection of future development, in order to devise appropriate organizational structure to meet pressures of urbanization. The important recommendations of the study have been embodied in legislation, and the planning and administrative steps fully implemented.

3. Location: Victoria.

4. Client: Victorian State Government, Melbourne, Victoria.

5. Scale: USC contribution 12 man months.

6. Completion: 1968.

7. Services Provided: Comparative feasibility studies of alternative proposals; conferences and educational discussions with relevant authorities; report and recommendations on metropolitan development and planning, legislative and administrative reorganization.

8. Associated Organizations: Town and Country Planning Board of Victoria.

EXAMPLE K

1. Symbols: Y-3 URBAN DEVELOPMENT (Y-4 City Planning; W-1 Management Study).

2. Name & Description: Western Australian Residential Development Performance Standards and Regulations; Integrated control codes for all forms of residential development (high and low income, high, medium and low densities), covering provisions for building bulk, car parking, recreation space and relationships between buildings, etc.

3. Location: Western Australia.

4. Client: State Government of Western Australia, Perth, Western Australia.

5. Scale: USC contribution 14 man months.

6. Completion: Gazetted by Western Australian Government on March 11, 1966.

7. Services Rendered: Research and investigation; discussions with all State and Local Government Authorities; fostering of public participation in study; analyses of housing standards; negotiations with professional and business organizations and Local Government Authorities; preparation and testing of codes.

8. Associated Organizations: Perth Metropolitan Region Planning Authority.

EXAMPLE L

1. Symbols: Y-3 URBAN DEVELOPMENT (Y-4 City Planning; W-1 Management Study).

2. Name & Description: Metropolitan Melbourne Satellite Cities Study: Planning and evaluation studies for satellite new towns on the fringe of the Melbourne Urban Region, to carry spillover of anticipated total metro 1990 population of 5,000,000 people.

3. Location: Melbourne, Victoria.

4. Client: Melbourne and Metropolitan Board of Works, Melbourne, Victoria.



5. Scale: USC contribution 50 man months.

6. Completion: 1969-90.

7. Services Provided: Socio-economic feasibility studies, planning, transportation and utility services evaluations; real estate market and inducement cost studies; threshold and optimization analysis; physical planning, administrative and financial recommendations.

8. Associated Organizations: Commonwealth Scientific and Industrial Research Organization, Computer Research and Programming Services.

#### EXAMPLE M

1. Symbols: Y-3 URBAN DEVELOPMENT (Y-4 City Planning; W-1 Management Study).

2. Name & Description: Gold Coast Urban Region Development Plan: Long-term planning for tourist resort and urban development planning to accommodate ultimate permanent population of 200,000 people.

3. Location: Gold Coast, Queensland.

4. Client: Gold Coast City Council, Southport, Queensland.

5. Cost: \$1,500 million.

6. Completion: 1990.

7. Services Provided: Strategic master planning for total urban population; statutory planning controls; detailed development design for environmental areas; freeway evaluation studies; action plans for flood mitigation canal systems, residential sites and services; detailed project studies for Civic Centre, Regional Hospital and all business and community centres.

8. Associated Organizations: Vallentine, Laurie and Davies, Consulting Engineers.

#### EXAMPLE N

1. Symbols: Y-3 URBAN DEVELOPMENT (Y-4 City Planning).

2. Name & Description: Rockingham Park New Town: Satellite town located about 35 miles south of Western Australian state capital of Perth, in association with 3,000 hectare Kwinana Industrial Area; designed to accommodate 50,000 - 60,000 people, with all community facilities and services.

3. Location: Rockingham, Western Australia.

4. Client: Rockingham Park Pty Ltd, Perth, Western Australia.

5. Cost: \$400 million.

6. Completion: 1985.

7. Services Provided: Market research, negotiations with authorities; transportation and traffic systems planning; public utility systems planning; residential and commercial sites and services planning; pre-investment feasibility studies; land valuation; economic evaluation; detailed development design; landscape architecture; house designs and siting arrangements; town centre layout; general advice on design and marketing.

8. Associated Organizations: R. J. Dewing, Consulting Engineer; Steffanoni, Ewing and Cruickshank, Surveyors; Marion Blackwell, Landscape Architect.

#### EXAMPLE O

1. Symbols: Y-3 URBAN DEVELOPMENT.

2. Name & Description: Edgecliff Glebe Redevelopment Project: Large-scale redevelopment project on fringe of central business district of Sydney; mixed high-density residential and commercial uses, integrated with bus interchange and underground railway station; total area of project 12 hectares.

3. Location: Sydney, Australia.

4. Client: Glebe Administration Board of Church of England in Australia, Sydney, New South Wales.

5. Cost: \$50 million.

6. Completion: Not yet determined.

7. Services Provided: Market research; detailed planning design; pre-investment feasibility studies; negotiations with authorities and developers; outline architectural design for all buildings; architectural documentation and site supervision of first three series of buildings constructed.

8. Associated Organizations: Rankine & Hill, Consulting Engineers; Hardy, Busby and Tyson, Surveyors; Thompson and Wark, Quantity Surveyors; Bruce McKenzie, Landscape Architect; Jones, Lang, Wooton, Property Consultants; Raine and Horne, Real Estate Agents.

EXAMPLE P

1. Symbols: Y-4 CITY PLANNING.
2. Name & Description: General planning proposals for regional service city of about 40,000 people.
3. Location: Tamworth, New South Wales.
4. Client: Tamworth City Council, Tamworth, New South Wales.
5. Cost: \$250 million.
6. Completion: 1990.
7. Services Provided: Socio-economic analyses; traffic engineering investigations; public utility studies; general planning and capital budgeting work; detailed design of residential environmental areas; statutory controls.
8. Associated Organizations: Sinclair and Knight, Consulting Engineers; Hunter Valley Research Foundations, Economic Analysts.

EXAMPLE Q

1. Symbols: Y-4 CITY PLANNING.
2. Name & Description: Geraldton General Plan: General planning proposals for regional service city of about 20,000 people.
3. Location: Geraldton, Western Australia.
4. Client: Geraldton Town Council, Geraldton, Western Australia.
5. Cost: \$125 million.
6. Completion: 1990.
7. Services Provided: Socio-economic analyses; market research; general planning and statutory control advice; detailed design of new residential and resort suburb.
8. Associated Organizations: R.J. Dewing, Consulting Engineer; City and Rural Surveys, Surveyors.

EXAMPLE R

1. Symbols: Y-4 CITY PLANNING.

2. Name & Description: Artarmon Redevelopment Plan:  
Redevelopment plan for 42 hectares of inner-suburban residential land close to the centre of Sydney.

3. Location: Artarmon, Sydney, New South Wales.

4. Client: Willoughby Municipal Council, Chatswood, New South Wales.

5. Cost: \$75 million.

6. Completion: 1990.

7. Services Provided: Socio-economic survey and analysis work; market research and investment feasibility studies; development of citizen participation in the planning process; detailed planning and design, with costing and programming recommendations; statutory development controls and proposals for administrative procedures.

8. Associated Organizations: IBM Australia Ltd, Computer Programming and Analysis.

EXAMPLE S

1. Symbols: Y-4 CITY PLANNING.

2. Name & Description: Battery Point Rehabilitation Plan:  
Rehabilitation plan for 95 hectares historic area on central business district fringe in Tasmanian state capital of Hobart.

3. Location: Battery Point, Hobart, Tasmania.

4. Client: Hobart City Council, Hobart, Tasmania.

5. Cost: Not applicable.

6. Completion: Continuing.

7. Services Provided: Comprehensive planning; historic conservation and rehabilitation proposals; townscape studies; preparation of statutory controls.

8. Associated Organizations: National Trust of Australia.

EXAMPLE T

1. Symbols: Y-3 URBAN DEVELOPMENT.
2. Name & Description: Tullamarine Industrial Park: Economic feasibility study of airport Industrial Park proposed to be developed in association with international jet airport at Melbourne, Victoria.
3. Location: Tullamarine, Melbourne, Victoria.
4. Client: Department of Civil Aviation, Canberra, ACT.
5. Cost: \$2 million.
6. Completion: Project abandoned following adverse report by USC on economic feasibility.
7. Services Rendered: Market research; detailed planning and subdivision design; costing and staging analysis; economic analysis and evaluation; implementation programming; recommendation on action.
8. Associated Organizations: Rankine and Hill, Consulting Engineers.

EXAMPLE U

1. Symbols: Y-3 URBAN DEVELOPMENT.
2. Name & Description: Macquarie Housing Survey: Socio-economic survey of housing market in outer Sydney suburb, adjacent to new Macquarie University.
3. Location: Ryde, Sydney, New South Wales.
4. Client: Strata Development Corporation Limited, Sydney, New South Wales.
5. Cost: \$5 million.
6. Completion: 1970.
7. Services Provided: Housing market surveys and analysis and recommendations on project planning and marketing.
8. Associated Organizations: R.T.M. Whipple, Real Estate Valuer.