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LOCAL DEVELOPMENT II URBAN PROJECT

Submitted to

USAID / CAIRO

Submitted by

WILBUR SMITH ASSOCIATES

in association with

PUBLIC ADMINISTRATION SERVICE
DEVELOPMENT CONSULTING OFFICE

DELOITTE AND TOUCHE
ENGINEERING AND GEOLOGICAL
CONSULTING OFFICE

**Needs Assessment Report
For
Education, Health and Youth Facilities
East District - Cairo Governorate**

TABLE OF CONTENTS

<u>Subject</u>	<u>Page No.</u>
<u>Introduction</u>	
1. Location	1
2. Area	1
3. Population	1
4. Report Components	1
I. <u>Educational Facilities:</u>	
1. Standards	2
2. Educational Facilities	2
3. School Shifts	2
4. Educational Facility Status	2
5. Student Density and Needs for Classrooms	2
6. Expected Future Increases	2
7. Deficiencies and Shortages in Educational Facilities	8
8. Development Potential in Educational Services	8
9. Needs Assessment and Estimated Cost	8
II. <u>Health Facilities</u>	
1. Policies and Standards of Public Health	11
2. Health Facilities	11
3. Deficiencies and Development Potential in Health service	11
4. Needs Assessment and Estimated Cost	11
III. <u>Youth Facilities</u>	
1. Standards	16
2. Youth Facilities	16
3. Needs Assessment and Estimated Cost	16

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TABLES

<u>Table</u>		<u>Page No</u>
I.	<u>Education:</u>	
-	Survey Summary of Basic Data and Observations for Educational Facilities, E-2	3,4,5
-	Schools Physical Conditions Summary Sheet, E-3	6
-	Classroom Projections: Additional classrooms to be constructed, E-4	7
-	Multi-Year Capital Improvement Program, Educational Facilities, E-5	9,10
II.	<u>Health:</u>	
-	Summary of Basic Data and Observations for Public Health Facilities, H-2	12,13,14
-	Multi-Year Capital Improvements Program, Health Facilities, H-3	15
III.	<u>Youth:</u>	
-	Survey Summary of Basic Data and Observations for Public Youth Centers, Y-2	17
-	Multi-Year Capital Improvements Program, Youth Facilities, Y-3	18

Note: Tables E-1, H-1, and Y-1 are individual field survey forms and are only in Arabic.

Introduction

1. Location:

East is one of the oldest, largest and most densely populated of Cairo's Districts.

- East District includes 2 Kisms. They are as follows:
 - El Matareya Kism.
 - Ein Shams Kism.
- Boundaries:
 - North: Suez desert road and El Salam District.
 - East : Gizr El Suez street and Heliopolis District.
 - South: El Horeya, Ebn El Hakam street, El Kablat street and El Zeitoun District.
 - West : Ismailia Canal and El Qualubia Governorate.

2. Area:

The area of the District is about 68 square kilometers.

3. Population:

The population of the District is 804,750 persons approximately.

4. The Report Components:

This report includes three sections:

Section I: Educational facilities
Section II: Health Facilities
Section III: Youth Facilities

Section I
Educational Facilities

East district offers educational services to its residents through its Primary, Preparatory and Secondary schools. There are 64 schools with 1,443 classrooms accommodating 158,552 students in the different educational stages.

1. Standards:

- a. Classroom density: (40) Primary / Preparatory, (36) Secondary (General education), (32) Secondary (Technical education).
- b. Full day system (one shift).
- c. One urinal and one toilet per 20 students of the first hundred. One to three urinals and toilets for each additional hundred.
- d. One W.C for each floor of the school.
- e. One desk for each 2 students of the Primary stage.
One desk for each student of the Preparatory and Secondary stages.
- f. The minimum classroom number for a Primary or Preparatory school is 18.
The minimum classroom number for a Secondary school is 18 to 24.

2. Educational Facilities (64 Schools):

Enrollment and condition data is displayed on (Table E-2).

3. School Shifts:

- a. 14 schools (22%) have one shift only.
- b. 44 schools (69%) have two shifts.
- c. 6 schools (9%) have three shifts.

4. Educational Facilities Status:

(Table E-3)

5. Student Density and Needs for Classrooms:

(Table E-4)

6. Expected Future Increases:

2.7% annually for all stages.

FACILITY					ENROLLMENT BY SHIFT									CONDITIONS (4)				EXPAN- SION POT. (5)
CODE NO.	NAME	OWNER- SHIP (1)	TYPE SCHOOL (2)	SEX (3)	FIRST			SECOND			THIRD			BUILD- ING	LIGHT- ING	EQUIP- MENT	W.C.	
					CLASS- ROOMS	STUD- ENTS	AVE. DENS.	CLASS- ROOMS	STUD- ENTS	AVE. DENS.	CLASS- ROOMS	STUD- ENTS	AVE. DENS.					
36	El Rashad	B	P	B	9	752	40	9	400	44				B	A	A	B	V/H
37	Exciler	B	P	B	24	1080	45	24	108	50				A	B	B	B	H
38	Alex El Askari	B	P	B	21	1600	70	20	1600	70				B	C	C	C	N
39	Dar El Tafl	B	P	M	6	76	16							C	C	B	B	H
40	Abtal El Odoor	B	P	B	30	1946	65	30	1090	63				A	A	A	A	H
41	Etat Fran	B	P	B	17	676	52	13	537	49				B	B	C	B	H
42	El Matereya El Hadissa	B	P	B	16	705	44	16	710	44				A	B	B	B	N
43	El Nahda	B	P	B	17	677	52	17	140	49				C	A	B	B	N
44	Qiz El Mary	B	SE	B	7	24	8							B	A	B	B	F
45	El Real	B	SE	B	29	349	12							B	A	B	B	N
46	East	B	SE	F	26	444	12							B	A	B	B	N

NOTES: 1. Ownership - B (Government), R (Rented), MD (Mona)
 2. Schools - P (Primary), PR (Preparatory), S (Secondary), SE (Special Education)
 3. Sex - F (Female), M (Male), B (Both)
 4. Conditions - A (Good), B (Fair), C (Poor), D (Serious)
 5. Expansion Potential - H (Horizontal), V (Vertical), N (No)

Source: Wilbur Smith and Associates

Governorate : Cairo
District : East

SURVEY SUMMARY OF BASIC DATA & OBSERVATIONS FOR EDUCATIONAL FACILITIES

Date Prepared: 1989

CODE NO.	FACILITY				ENROLLMENT BY SHIFT									CONDITIONS (4)				EXPAN- SION POT. (5)
	NAME	OWNER-SHIP (1)	TYPE SCHOOL (2)	SEX (3)	FIRST			SECOND			THIRD			BUILD- ING	LIGHT- ING	EQUIP- MENT	W.C.	
					CLASS- ROOMS	STUD- ENTS	AVE. DENS.	CLASS- ROOMS	STUD- ENTS	AVE. DENS.	CLASS- ROOMS	STUD- ENTS	AVE. DENS.					
1	El Tahrir	B	Pr	M	19	1626	86	19	1506	79	19	1510	79	A	E	E	H	N
2	Heliseyet El Teiboun	B	Pr	M	10	498	50	10	496	50				C	C	A	H	N
3	El Ahweya El Mossalla	F	Pr	M	7	367	52	7	347	50				C	C	D	H	N
4	El Farouk Dar	B	Pr	M	19	1250	66							A	A	C	H	N
5	Mohamed Abdo	B	Pr	B	35	1500	43	41	2209	54				A	A	B	H	N
6	Maysara	B	Pr	M	12	720	60	12	732	61	12	720	60	A	A	B	H	N
7	El Nasreya	B	Pr	F	27	1617	60	27	1643	68				B	A	A	H	N
8	El Nasr	B	Pr	F	22	893	45	22	876	40				A	A	A	H	N
9	El Masala	B	Pr	F	23	1400	61	23	1454	63				B	A	A	H	N
10	El Moranadeya	B	Pr	F	28	2081	74	28	2100	75				A	A	A	H	N
11	6th October	B	Pr	F	19	1265	67							A	B	B	H	N
12	Relal	B	Pr	M	21	913	43							A	C	A	H	N
13	Misr	B	Pr	M	24	1043	43	21	1133	54				A	A	C	H	N
14	El Horeya	B	Pr	M	37	1737	47	37	2342	63				C	B	B	H	N
1	Ebn Khalidoun	B	S	M	50	2714	51							B	A	E	C	N
2	Ein Shaes	B	S	M	23	649	28							A	A	C	C	N
3	Heliseyet El Teiboun	B	S	F	57	2593	53	32	1100	34				C	B	B	C	N
4	El Nasr Commercial	B	S	F	32	1500	36							B	B	E	C	N

NOTES: 1. Ownership - B (Government), R (Rented), MO (Moana)
2. Schools - P (Primary), PR (Preparatory), S (Secondary), SE (Special Education)
3. Sex - F (Female), M (Male), B (Both)
4. Conditions - A (Good), B (Fair), C (Poor), D (Serious)
5. Expansion Potential - H (Horizontal), V (Vertical), N (No)

Source: Wilbur Smith and Associates

af/E-2 DE2

Schools, Physical Condition
Summary Sheet

Governorate: Cairo

District : East

Date Prepared: 1989

School Type	Total No. of Schools	Physical Condition																Expansion Potential	
		Government				Rented				Moana				Total				Governorate	
		A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D	V	H
Primary	43	25	2	2	-	1	1	1	-	1	-	-	-	27	13	3	-	4	19
Preparatory	14	9	2	2	-	-	-	1	-	-	-	-	-	9	2	3	-	-	3
Secondary	4	1	2	-	-	-	-	-	1	-	-	-	-	1	2	-	1	-	-
Secondary / Technical																			
Special Education	3	1	2	-	-	-	-	-	-	-	-	-	-	1	2	-	-	-	-
TOTAL	64	36	19	4	-	1	1	2	1	1	-	-	-	38	19	6	1	4 Schools	23 Schools

Expansion potentials are only for Government-owned Schools

H is horizontal, V is vertical, provide No. of classrooms which have potential for expansion

A = Good (needs only periodical maintenance, for example, painting & minor repairs) <10% of facility needs work

B = Fair (needs some renovations, for example, replacing of sewer risers, door frames & stair steps); 10-25% of facility needs work

C = Poor (needs major upgrading); > 50% of facility needs work

D = Serious (including building subject to failure or not economical to repair)

Governorate : Cairo
District : EastCLASSROOM PROJECTIONS
Additional Classrooms Needed to be Constructed

Date Prepared: 1995

Type	Schools (as of 89)									Total			Additional Classrooms Needed																			
	1 Shift			2 Shifts			3 Shifts			No. of Class.	(1) No. of Stu.	(2) Dens.	1st year				2nd year				3rd year				4th year				5th year			
	No. of Class.	No. of Stu.	Dens.	No. of Class.	No. of Stu.	Dens.	No. of Class.	No. of Stu.	Dens.				F	2	2	T	F	2	2	T	F	2	2	T	F	2	2	T	F	2	2	T
P.	905	56105	62	527	12277	62	98	7018	72	1620	11465	60	-	29	144	2129	-	55	1014	2115	-	81	1066	2200	-	107	1119	2294	-	133	1174	2370
Pr.	303	17310	58	247	15140	61	31	2200	72	561	34280	59	-	-	294	577	-	3	710	601	-	12	326	625	-	20	340	656	-	29	361	675
S.	172	6556	49	-	-	-	-	-	-	122	6556	49	4	-	-	54	8	-	-	59	12	-	-	14	16	-	-	70	20	-	-	75
S. T.	22	1150	36	22	1100	34	-	-	-	44	2250	35	1	-	24	40	2	-	26	42	3	-	38	44	4	-	40	46	5	-	41	48
S. S.	70	816	12	-	-	-	-	-	-	70	816	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Total	1447	81637	57	1106	67677	61	129	9218	72	2478	158152	59	5	29	4792	2710	10	58	1240	2920	15	93	1430	2933	20	127	1512	3054	35	164	1875	3169

P = Primary
Pr = Preparatory
S = Secondary
S.T. = Secondary Technical & Commercial
S.S. = Special Education

F = Additional Classrooms Per Year Needed to be Constructed for Future Population at Existing Students Density Level Based on Declared Rate of Growth, Working Existing Number of Shifts.

Sh. 3 = Additional Classrooms Needed to be Constructed, if the Third Shift is Cancelled (to work 2 Shifts Only) at Existing Students Density Level, Based on Declared Rate of Growth.

Sh. 2 = Additional Classrooms Needed to be Constructed, if the Second Shift is Cancelled (to work One Shift Only) at Existing Students Density Level, Based on Declared Rate of Growth.

T = Additional Classrooms Needed to be Constructed to Meet Education Department's Students Density Criteria Working One Shift Only Based on Declared Rate of Growth.

n = No. of years in future

NOTE:

- Calculations for each category are not based on the results from other categories. (i.e., Sh.2, Sh.2 and T do not take into consideration the number needed for F.) The District would construct Sh.3 or Sh.2 or T. No. of classrooms, not F plus that number.

STANDARD DENSITY :

- (4) P./ Pr.
- (36) S. General
- (22) S.T. & C.

$$F = \frac{(1) \text{ Total No. of Students } F (1 + \frac{\text{Rate of Growth}}{100})}{\text{Average Density } (2)} \times \text{No. of Shifts} - (\text{No. of Class. in First Sh. } \times \text{ No. of Sh.})$$

$$\text{Sh. 3} = \frac{(1) \text{ Total No. of Students } F (1 + \frac{\text{Rate of Growth}}{100})}{\text{Average Density } (2)} \times \text{No. of Shifts} - (\text{No. of Class. in First Sh. } \times 2)$$

$$\text{Sh. 2} = \frac{(1) \text{ Total No. of Students } F (1 + \frac{\text{Rate of Growth}}{100})}{\text{Average Density } (2)} \times \text{No. of Shifts} - (\text{No. of Class. in First Sh. } \times 1)$$

$$T = \frac{(1) \text{ Total No. of Students } F (1 + \frac{\text{Rate of Growth}}{100})}{\text{Standard Density}} - (\text{No. of Class. in First Sh.})$$

7. Deficiencies and Shortages in the Educational Services:

- a. There are a number of rented and moana schools which represent about 9% of the total number of the district's schools. Therefore, it is difficult to renovate or expand the schools.
- b. There is no vacant land allocated for the educational services.
- c. There are no financial resources to purchase the land.
- d. Equipment and furniture in the schools are inadequate.

8. Development Potential in educational Services:

- a. From (Table E-4) the need for classrooms is apparent, according to the projected increases (Item 6), in the coming 5 years. In case the second and third shifts are cancelled with the classrooms density meeting the standards, an additional 3169 classrooms are needed. This means constructing approximately 634 classrooms per year.
- b. Purchase the rented land.
- c. Increase the funds allocated for maintenance and renovation.
- d. Provide equipment and furniture for classrooms, labs, and work shops.
- e. Raise the efficiency level of the teachers by means of holding training courses for them.
- f. Use modern educational services.
- g. Construct additional classrooms. (This depends upon the available expansion potential).

9. Needs Assessment and Estimated Cost:

(Table E-5).

The total estimated cost is L.E 1,242,100.

MULTI-YEAR CAPITAL IMPROVEMENTS PROGRAM

EDUCATIONAL FACILITIES

Governorate : Cairo

District : East

Date Prepared: 1989

Facility Titles	Description of Improvement	Total Estimated Cost (LE)
<u>Prim. Schools</u>		
1. Mahmoud Knater Prim. School	- Construction of 6 classrooms and W.C.	79,000
2. El Zahraa School	- Electrical cable and construction of W.C.	25,500
3. Palestine School	- Students desks	4,200
4. Ahmed Esmat School	- Construction of 4 rooms and W.C.	49,000
5. Omar Makram School	- Completion of 2 classrooms and W.C. maintenance	12,500
6. Mohamed Karim School	- Construction of 16 classrooms	160,000
7. Om El abtal Prim School	- To raise the sewerage level	2,000
8. Ein Shams El Guedida	- Completion of 4 classrooms	4,000
9. 6th October School	- External lavabo for W.C.	1,200
10. El Wadi School	- Construction of one room and a part of the fence	6,500
11. Mostafa Hafez	- Construction of a W.C.	10,500
12. El Ansar	- Construction of a library and teacher's room	18,000
13. Koda Sharawe	- Construction of room, raise the school fence and glass repairs	4,500
14. Shagaret Maryam	- Construction of 2 W.C.s	50,000
15. El Akkad	- Chairs, lighting, glass and raise the sewerage level	3,000
16. El Hasreya	- Construction of a W.C.	10,500
17. Om Kalsoum	- Construction of a W.C., repairs of classrooms and W.C.	47,000
18. Ammar Ebn Yasser	- Construction of 3 rooms	18,000
19. El Wasser Salah El Dine	- Construction of a W.C.	25,000
20. El Horeya	- Construction of 3 classrooms	27,000
21. El Beshry	- Sewerage repair and plastering the school fence	1,200
22. Omar El Mokhtar	- Construction of 8 classrooms, stairs and W.C.	97,000
23. Ahmed fathy El Akad	- Construction of an additional building	108,000
<u>Secondary Schools</u>		
1. Ebn Khaldoun	- W.C. repair and school building plastering and painting.	4,000

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MULTI-YEAR CAPITAL IMPROVEMENTS PROGRAM

EDUCATIONAL FACILITIES

Governorate : Cairo

District : East

Date Prepared: 1989

Facility Titles	Description of Improvement	Total Estimated Cost (LE)
Prep. Schools:		
1. Helmeyet El Zeitoun	Furniture repair and school painting	4,000
2. El Farouk Omar	Construction of 6 rooms	54,000
3. El Wasreya	Demolishing the old building and reconstruction of 16 classrooms. (4 floors)	160,000
4. El Naam	Stair and sewerage repairs and classrooms painting.	5,000
5. 6th October	Construction of 2 classrooms, purchasing of desks and cupboards.	
6. Belal	Electrical circuit installation and lab. equip.	2,000
7. El Matarawe	W.C repair	4,000
8. Refaa El Tahtawe	Construction of a W.C	25,000
9. Fbn Sinai	Sewerage repair	1,000
10. El Shahid Osama Wafa	Sewerage system repair and school building plastering	2,500
11. El Farik Aziz El Masry	Construction of 3 wooden classrooms above the W.C.	36,000
12. El Rashad	Construction of a building and W.C.	133,000
13. Misr	Library equipment	1,000
14. El Horeya	Construction of 3 classrooms	27,000
	Total	1,242,100

af/E-5 CE

Section II

Health Facilities

1. Policies and Standards Of Public Health:

Following are the policies and standards of Public Health as per Alexandria Governorate Health Department in 1983.

- a. The average number of beds in a hospital is 200 , one hundred beds are first established then the other hundred.
- b. Maximum number of beds per hospital is 400.
- c. The number of beds fluctuates between 35 and 40 per 10,000 persons in the population served.
- d. 4 hospitals for each 200,000 persons.
- e. One health unit for each 10,000 persons.
- f. One urban health unit consisting of an out patient clinic, school health unit, health office for mother / child care center for each 50,000 persons.

2. Health Facilities:

(Table H-2)

3. Deficiencies and Development Potential in Health Services:

- a. The shortage of medical equipment.
- b. There is no assigned land.

The Health Services efficiency can be raised by:

1. Supplying Health Facilities with the required medical equipment.
2. Regular maintenance for health structures.
3. Provide the necessary spare parts for equipment maintenance.
4. Holding training sessions for doctors and technicians.

4. Needs Assessment and Estimated Cost:

(Table H-3)

The total estimated cost amounts to L.E. 243,000.

Governorate : Cairo
District : East

SUMMARY OF BASIC DATA AND OBSERVATIONS FOR
PUBLIC HEALTH FACILITIES

Date Prepared: 1985

NO.	FACILITY NAME	SERVICE AREA	OUT-PATIENT				IN-PATIENT				FACILITY CONDITION (1)								EXP. POT. (2)	
			AVE. PATNS /DAY	PHYSICIAN/TECH. STAFF	NURSES/OTH. STAFF	TREATMENT	AVE. PATNS /DAY	AVERAGE STAY	No. BEDS	PHYSICIAN/TECH. STAFF	NURSES/OTH. STAFF	TREATMENT	BUILDING	PHARMACY	EMERG. ROOM	ILLUMINATION	TREATM. ROOMS	OPERAT. ROOMS		WATER SEWER
1	EI Matareya Chest Clinic	East Cairo El Bastou Helwan	40	4	-	Chest Diseases						A	A	C	A	A	-	B	B	H
2	EI Matareya General Clinic	M. Areea	22	5	-	Medicine Pediatrics						A	A	-	A	-	-	E	E	V
3	EI Matareya Enderic	EI Matareya	45	7	21	Enderic and Blood Diseases						A	-	-	A	E	-	E	B	N
4	EI Matareya Treatment Group	EI Matareya Ain Shams	500	140	160	Enderic Infectious Chronic Diseases Accidents - Dental						C	C	-	C	C	-	C	C	A
5	EI Zahraa Treatment Group	Ain Shams/ Ezbet Hanna	100	21	17	Medicine, Pediatrics, Surgery, Ophthalmology, ENT, Dental						A	-	-	A	A	-	C	C	V
6	First Child Care Center	EI Matareya EI Helwan	100	21	30	Maternity Care Center Pediatrics Immunization Dental						A	A	-	C	A	-	C	C	H
7	Second Child Care Center	EI Matareya Arab EI Tawala EI Ezbet	40	15	20	Maternity Care Center - Pediatrics Immunization						F	B	-	A	E	-	C	E	N

NOTES: (1) Facility condition - A (Good), B (Fair), C (Poor), * (Serious)
(2) Expansion potential - H (Horizontal), V (Vertical), N (No)

MULTI-YEAR CAPITAL IMPROVEMENTS PROGRAM

Governorate : Cairo
 District : East

HEALTH FACILITIES

Date Prepared: 1989

Facility Title	Description of Improvement	Total Estimated Cost (LE)
1. El Mataria Chest Dispensary	- Beds for the inpatient section, construction of a building to examine the food workers and infectious diseases clarifying certificates.	15,000
2. El Mataria Comprehensive Clinic	- Constructing a second floor to serve all the treatment specialties and furnishing the second floor with electro-cardiographic apparatus, X-ray apparatus and complete lab.	63,000
3. El Mataria Child Care Center (1)	- Equipment for medical clinics (Gynecology and Obstetrics - Dehydration - Family Planning) - Maintenance of W.C.s. electricity network and renovation of the main building.	40,000
4. El Mataria Child Care Center (2)	- Equipment for medical clinics - furnishing the nurses and mid-wives residence - development of the main building.	8,000
5. El Zahraa Child Care Center	- Equipment for a complete obstetrics room	25,000
6. El Zeitoun Cultural Center	- Maintenance of W.C.s. - Equipment for the dental clinic with teeth filling apparatus.	20,000
TOTAL		243,000

af/H-3 CE

Section III
Youth Facilities

1. Standards:

- a. One youth center for each 10,000 persons.
- b. The typical youth center should occupy approximately 5.5 feddans.
- c. Each center includes a swimming pool.
- d. Supplying capability for (80%) of the youth to engage in youth activities (the remaining 20% use special clubs).

2. Youth Centers:

Table (Y-2)

Needs Assessment and Estimated Cost:

Table (Y-3)

The total estimated cost amounts to L.E. 460,750.

PUBLIC YOUTH CENTERS

SURVEY SUMMARY & BASIC DATA AND OBSERVATIONS

Governorate : Cairo
District : East

Date Prepared: 1969

NO.	F A C I L I T Y						F A C I L I T Y C O N D I T I O N (1)							EXPANSION POTENTIAL (2)
	NAME	TYPE OF FACILITY	ACTIVITIES PROVIDED	MEMBERSHIP	APPROXIMATE AREA SERVED	APPROXIMATE POPULATION SERVED	BUILDING	EQUIPMENT	W.C.	LIGHTING	PLAYGROUND	WATER/ SEWER	SURROUNDING AREA	
1	Abbat El Nakhl Youth Center	Youth Center	Sport/Cultural/Social Religious	2,168	Abbat El Nakhl	20,000	A	C	B	C	B	B	B	V
2	Ain Shams Youth Center	"	"	800	Ain Shams/ Arab El Hesh	3,000	B	B	B	C	B	B	B	H
3	Arab El Hesh Youth Center	"	"	1,400	Arab El Tawalla/ Ebbat Atef/ Ebbat Shawa	14,000	B	B	C	C	B	C	C	H
4	Helwiat El Zeitoun Youth Center	"	Scientific and Artistic Hobbies	3,682	El Zeitoun/ El Metareya/ Ain Shams/ Masaken El/ Helwata	35,000	A	A	C	A	C	A	B	V/H
5	Manshiat El Tahrir Youth Center	"	"	5,000	Masken El Helwa/El Tahrir/Alf Masken/Ain Shams	50,000	B	C	C	C	B	C	B	V
6	El Mataria Sporting Club	"	"	612	El Mataria/ Ain Shams	5,000	A	A	A	B	B	A	B	H

NOTES: (1) Facility condition - A (Good), B (Fair), C (Poor), D (Serious)
(2) Expansion potential - H (Horizontal), V (Vertical), N (No) - units of a2

Y-2 CE

MULTI-YEAR CAPITAL IMPROVEMENTS PROGRAM

YOUTH FACILITIES

Governorate : Cairo

District : East

Date Prepared: 1989

Youth Facility	Description of Improvement	Total Estimated Cost (LE)
1. Ezbet El Nakhl Youth Center	<ul style="list-style-type: none"> - Completion of the first and second floors. - Constructing volleyball & basketball playgrounds - Constructing a fence 	135,000
2. Arab El Hesn Youth Center	<ul style="list-style-type: none"> - Renovation and maintenance of the center. - Completing the construction. 	5,000
3. Helmiat El Zeitoun Youth Center	<ul style="list-style-type: none"> - Maintenance of W.C.s - Construction of social hall 	120,750
4. Manshiat El Tahrir Youth Center	<ul style="list-style-type: none"> - Construction of locker rooms - Construction of grandstand and a complete administrative building. - Preparation of playgrounds - Renovation of activity hall 	120,000
5. El Matarya Sporting Club	<ul style="list-style-type: none"> - Construction of an iron fence around the football playground - Construction of a track around the football playground. 	80,000
	TOTAL	460,750

af/Y-3 CE

SOURCE OF TABLES

Table

E-2 & E-5

H-2 & H-3

Y-2 & H-3

E-3 & E-4

Sources

District

District

District

Wilbur Smith Associates