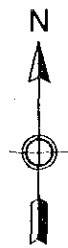
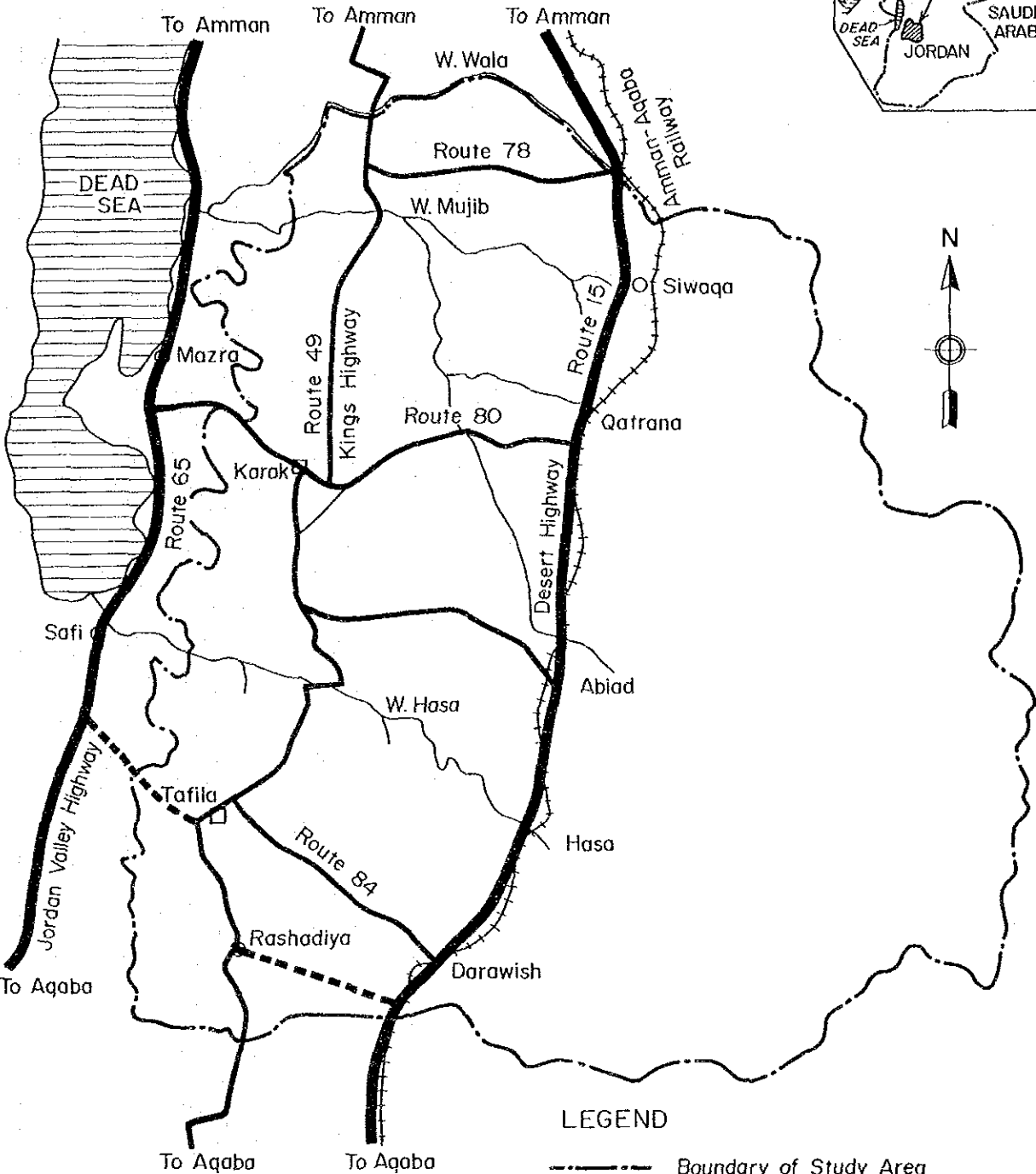


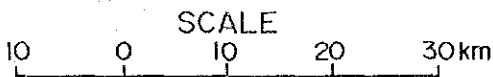
**F I G U R E S**





**LEGEND**

- Boundary of Study Area
- +++++ Railway
- Capital of the Governorate
- Principal City
- ▬ Primary Road
- ▬ Secondary Road
- Planned Road



**Fig. 1 Existing and Planned Road Networks**

THE HASHEMITE KINGDOM OF JORDAN  
 THE STUDY ON INTEGRATED REGIONAL DEVELOPMENT MASTER PLAN FOR THE KARAK - TAFILA DEVELOPMENT REGION  
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Number of inhabitants (1985)			
1. Karak	14935	80. Abiad	283
2. Lajjun	200	81. Um El Ghozlan	169
3. Samra	531	82. Juweir	52
4. Izra	60	83. Noaymeh	170
5. Shehbiyyeh	2231	84. Hadabeh	41
6. Adir	2714	85. Rojem Ennawayseh	234
7. Ainun	543	86. El Manshiya	515
8. Eththniya	1174	87. El Jauza	121
9. Mikkein	664	88. Edabbaka + Isawiya	103
10. Adnaniyyeh	1237	89A. Wadi Ennwayseh	105
11. Mirwid	846	89B. Rashediyyeh	
12. Qatrana	2315	90. Tafila	15626
13. Mumya	385	91. Aima	1230
14. Abdaliyyeh	134	92. Sinifha	995
15. Kamnah	33	93. Alyeh	87
16. Gmuweir	1331	94. Essile	891
17. El Baqei	436	95. Almitan	72
18. Zahum	564	96. Abur	100
19. El Musheirifa	276	97. Elis	424
20. Manshiyat Abu Hammur	2142	98. Abil	285
21. Badhdhan	908	99. Shaedham	63
22. Sakka	454	100. An-Namata	211
23. Raudhah	262	101. Dhiba'a	109
24. Mraighah	54	102. Rhab	408
25. El Ma'muniya	234	103. Afra	104
26. Batir	823	104. El Burbeita	159
27. Wadi Ben Hammad	567	105. Jurf Ed Darawish	646
28. Um Rummanah	72	106. El Hasa	4077
29. Damekhi (Siwaqa)	120	107. El La'ban	288
30. Qureifilla	41	108. Arafah	336
31. Zugheiriya	48	109. Abu Banna	260
32. Saahoor	39	110. Ain Al Beida	2880
33. Bawwab	19	111. Ruweim	805
34. El Hawiya	140	112. El Harir	399
35. Sad Essoltan	480	113. Swaimie	24
36. Rakin	1994	114. Majadil	1
37. Judaiyida	1958	115. Zhaigah	115
38. Ai	4545	116. Bsaira	3618
39. Kathrabba	2191	117. Rashadiyyeh	5
40. Jauza	1486	118. Dhana	504
41. El Iraq	2028	119. Gharandal	1531
42. El Qasr	1929	120. Kadisyeh	2898
43. El Rabba	3026	121. Lahdhah	48
44. Simakiya	1335	122. Um Essarab	81
45. Humud	406	123. Sail Ria	88
46. Wasiyeh	36	124. Qar Qoor	23
47. Faqu	3024	125. Janien	30
48. Imra	890	126. Dhiban	3020
49. Sirfa	2263	127. Falha	253
50. El Yarut	1005	128. Alyeh	809
51. Ariha and Abu Turaba	810	129. Dhaibeh	291
52. Mesar	296	130. Barza	350
53. Shihan	348	131. Shaqaiq	689
54. Jada	1338	132. Mathlootheh	199
55. Mughaiyr	383	133. Qbaibeh	48
56. Zahra	419	134. Um Shjaireh Gharbiyyeh	105
57. Mujib	861	135. Um Shajarah	54
58. Eddimna	471	136. Qasymieh	104
59. Majdalein	117	137. Mesherfeh	193
60. El Mazar	5099	138. Ara'er	16
61. Mauta	3432	139. Um Shjaireh Sharqiyyeh	82
62. Tayybeh	3325	140. Um Zabarah	43
63. Sarara	204	141. Alaqi	27
64. Um El Khanazir	30	142. Hano Allebbarah	8495
65. El Baqa	48	143. Wadi Rmail	128
66. Amashiyyeh	87	144. Jmayyel	
67. Dabbeh	227	145. Mzayyer Alia	
68. Khauka	6	146. Elayyan	
69. Juhra	349	147. Msaitbeh	
70. El Amaqa	123	148. Salyeh	
71. Sul	1502	149. Um Rsas	
72. Moab	5974	150. Ramah	
73. That Ras	2780	151. Abu Hlaileefeh	
74. Mhiyy	1354	152. Mshairfet Slait	
75. El Hashimiya El Janubiya	757	153. Toar Hashash	
76. El Shariffeh	21	154. Thrayya	
77. Majra	284	155. Yahooon	
78. Hamdiyyeh	156	156. Rojom Fhaid	
79. Um Al Yanabee	56	157. Rojom Igab	
		<b>Total</b>	<b>152,105</b>

Note : Above figures are slightly different from the data given by MOP  
Source : Regional Planning Department, MMRAE

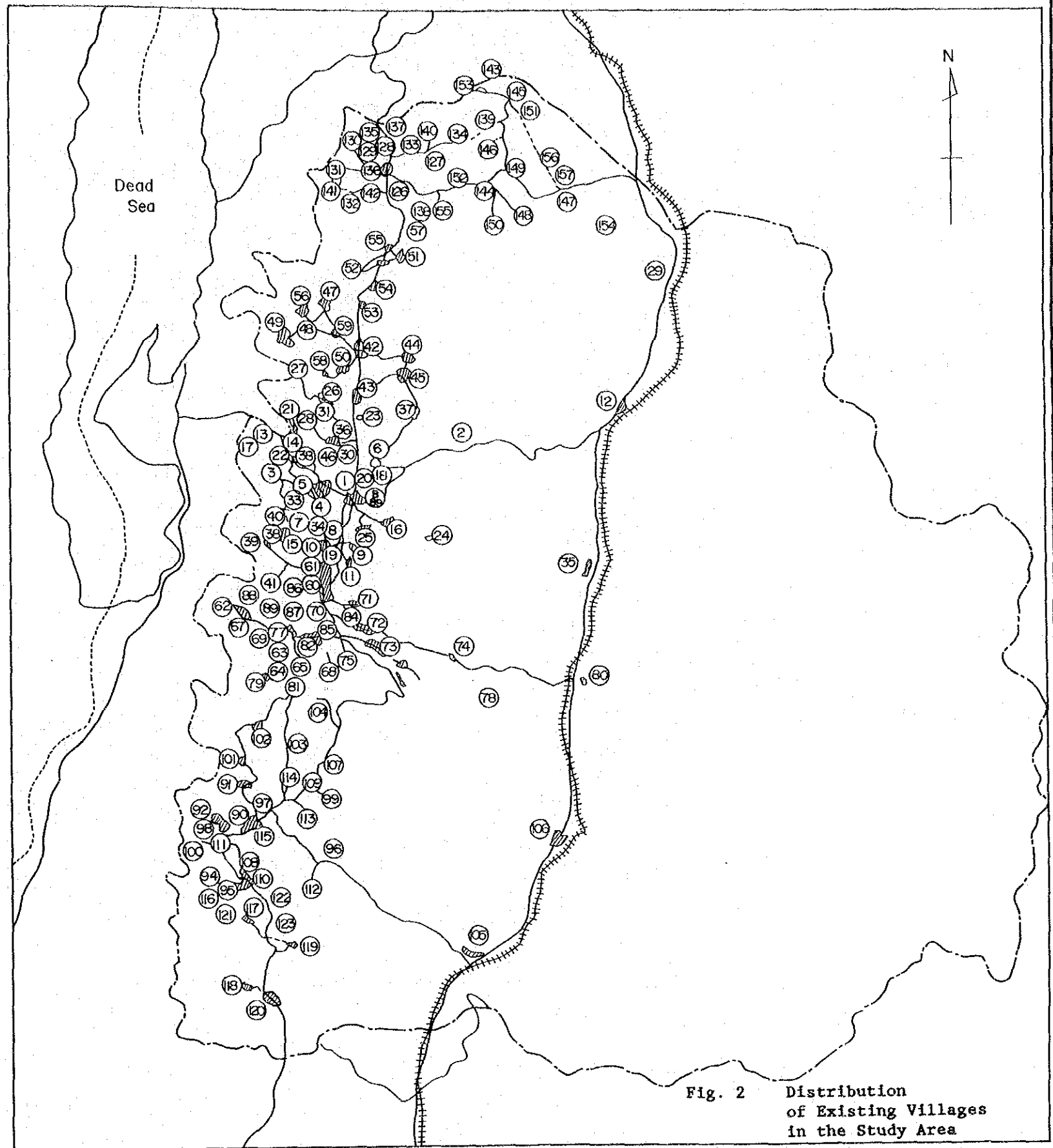
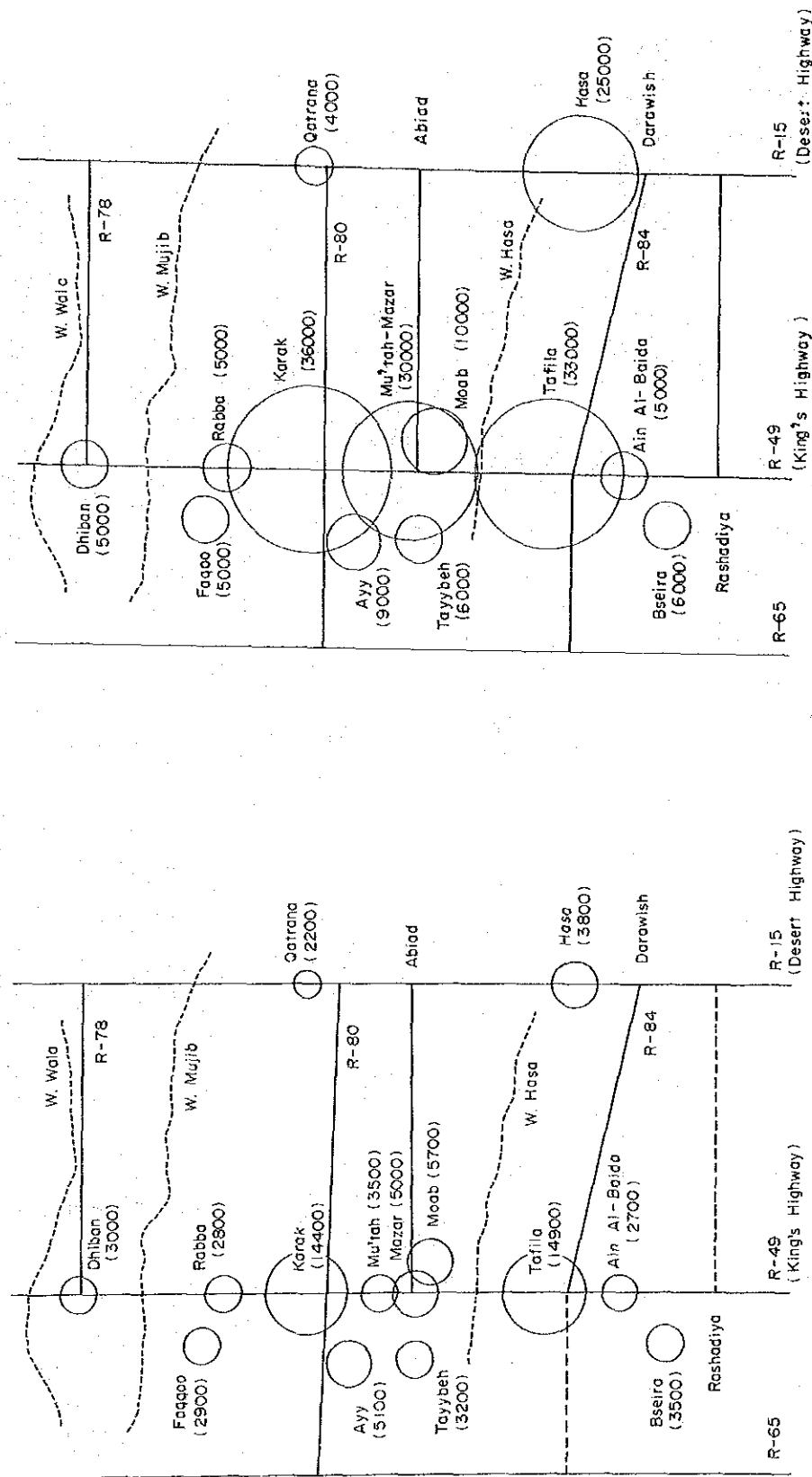


Fig. 2 Distribution of Existing Villages in the Study Area



Fig. 3 Present and Projected Spatial Structures





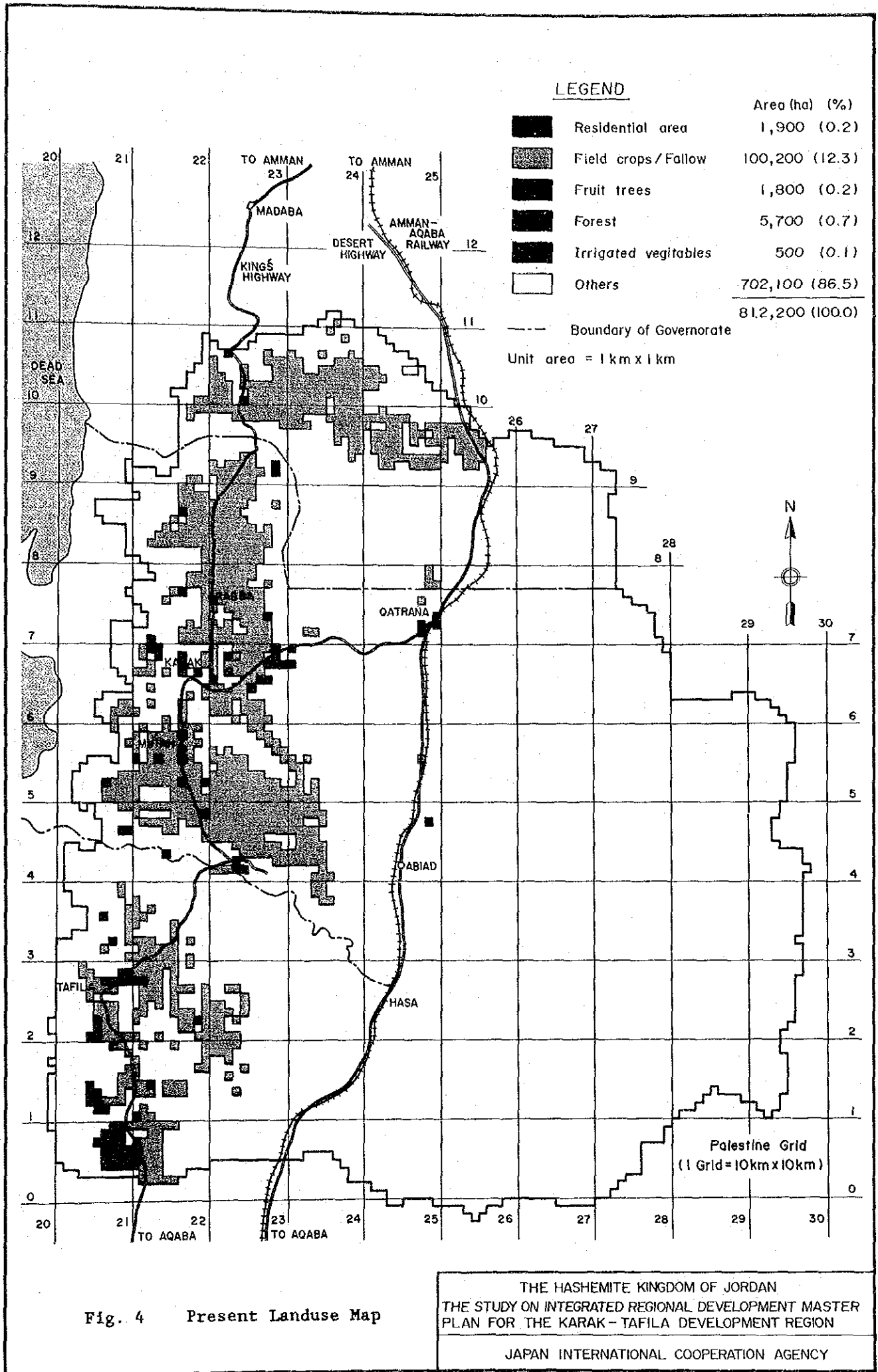


Fig. 4 Present Landuse Map

THE HASHEMITE KINGDOM OF JORDAN  
THE STUDY ON INTEGRATED REGIONAL DEVELOPMENT MASTER PLAN FOR THE KARAK - TAFILA DEVELOPMENT REGION

JAPAN INTERNATIONAL COOPERATION AGENCY





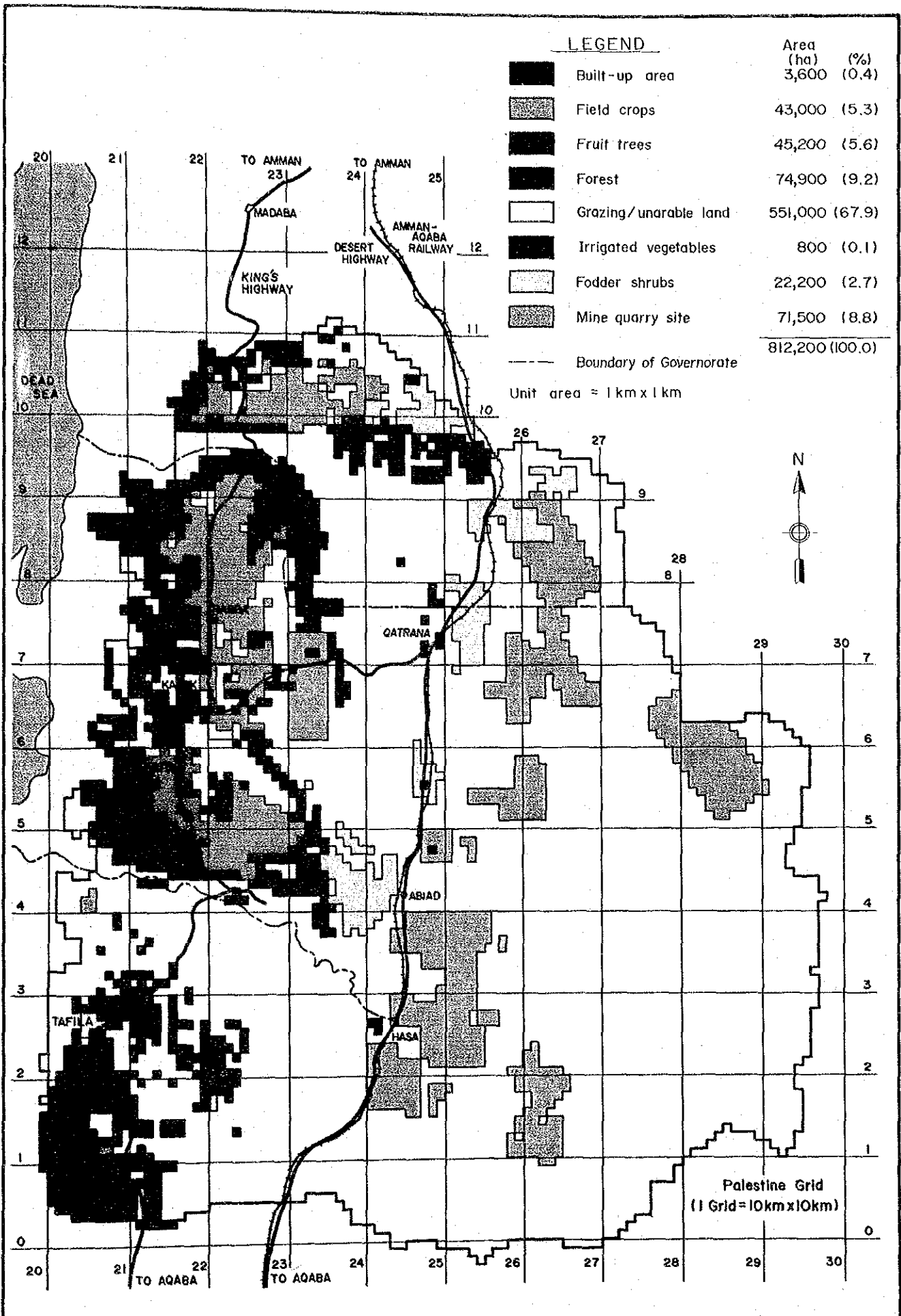
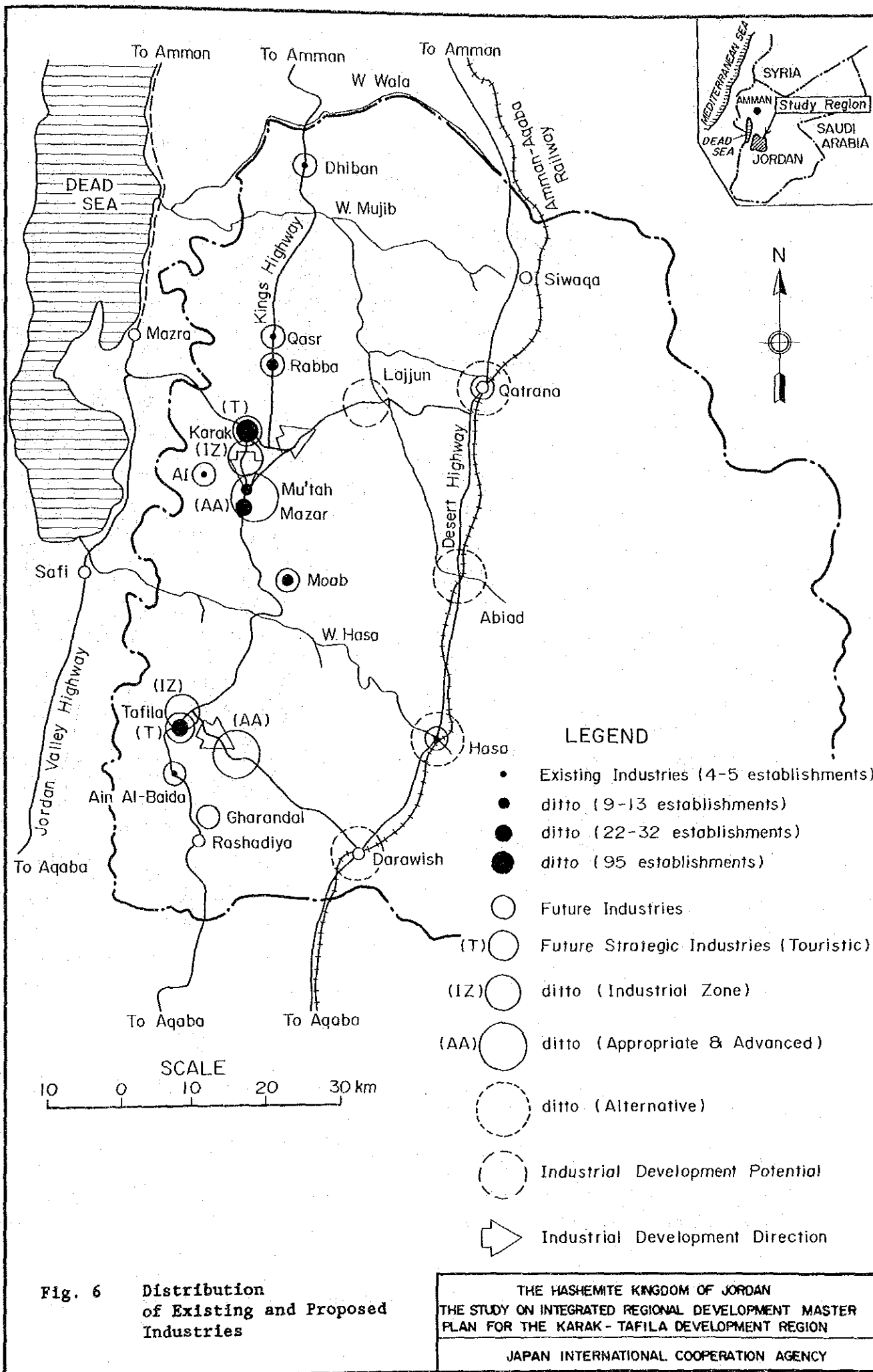


Fig. 5 Proposed Future Landuse Map

THE HASHEMITE KINGDOM OF JORDAN  
 THE STUDY ON INTEGRATED REGIONAL DEVELOPMENT MASTER PLAN FOR THE KARAK - TAFILA DEVELOPMENT REGION

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**Fig. 6** Distribution of Existing and Proposed Industries

THE HASHEMITE KINGDOM OF JORDAN  
 THE STUDY ON INTEGRATED REGIONAL DEVELOPMENT MASTER PLAN FOR THE KARAK - TAFILA DEVELOPMENT REGION  
 JAPAN INTERNATIONAL COOPERATION AGENCY



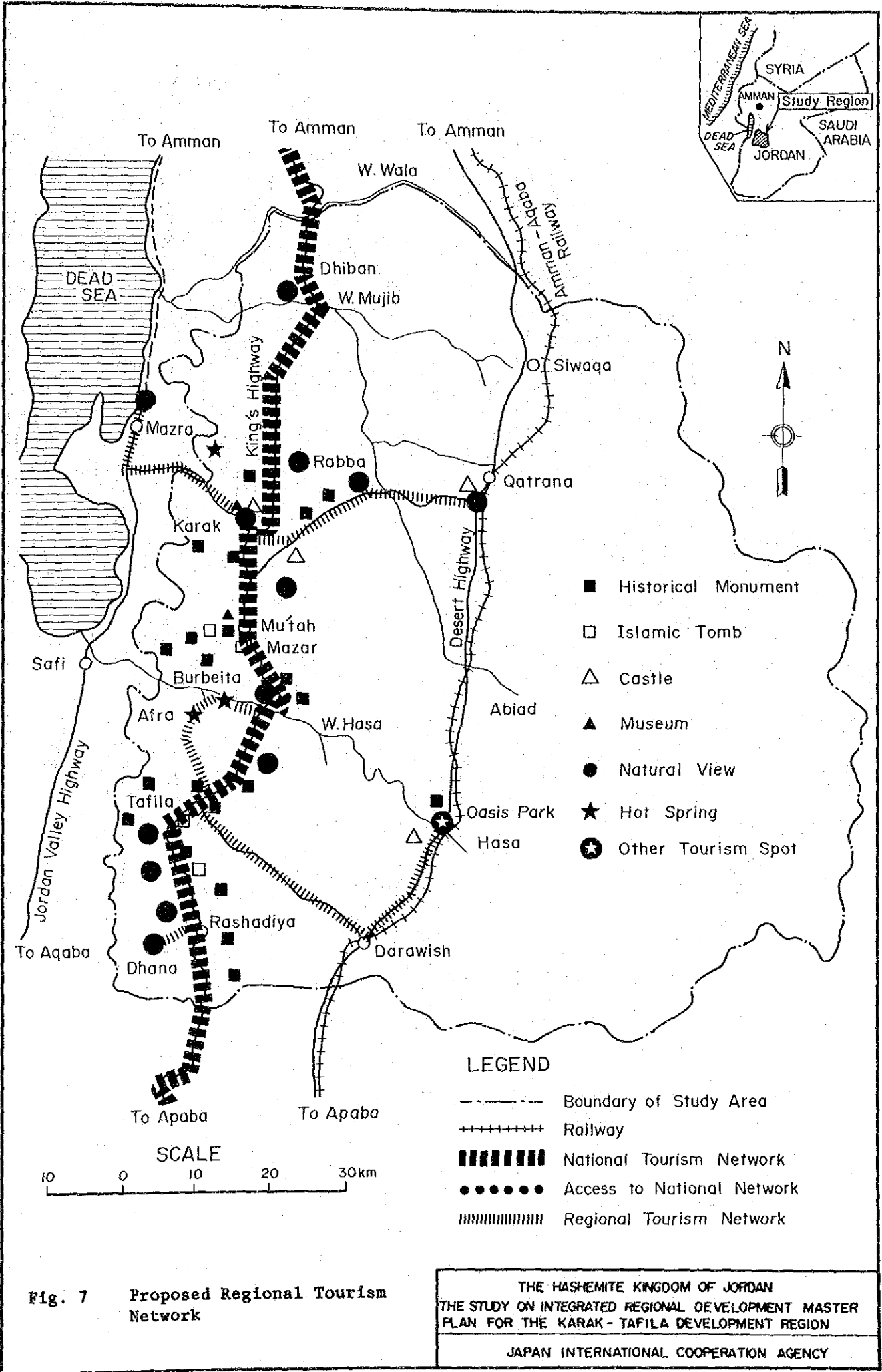
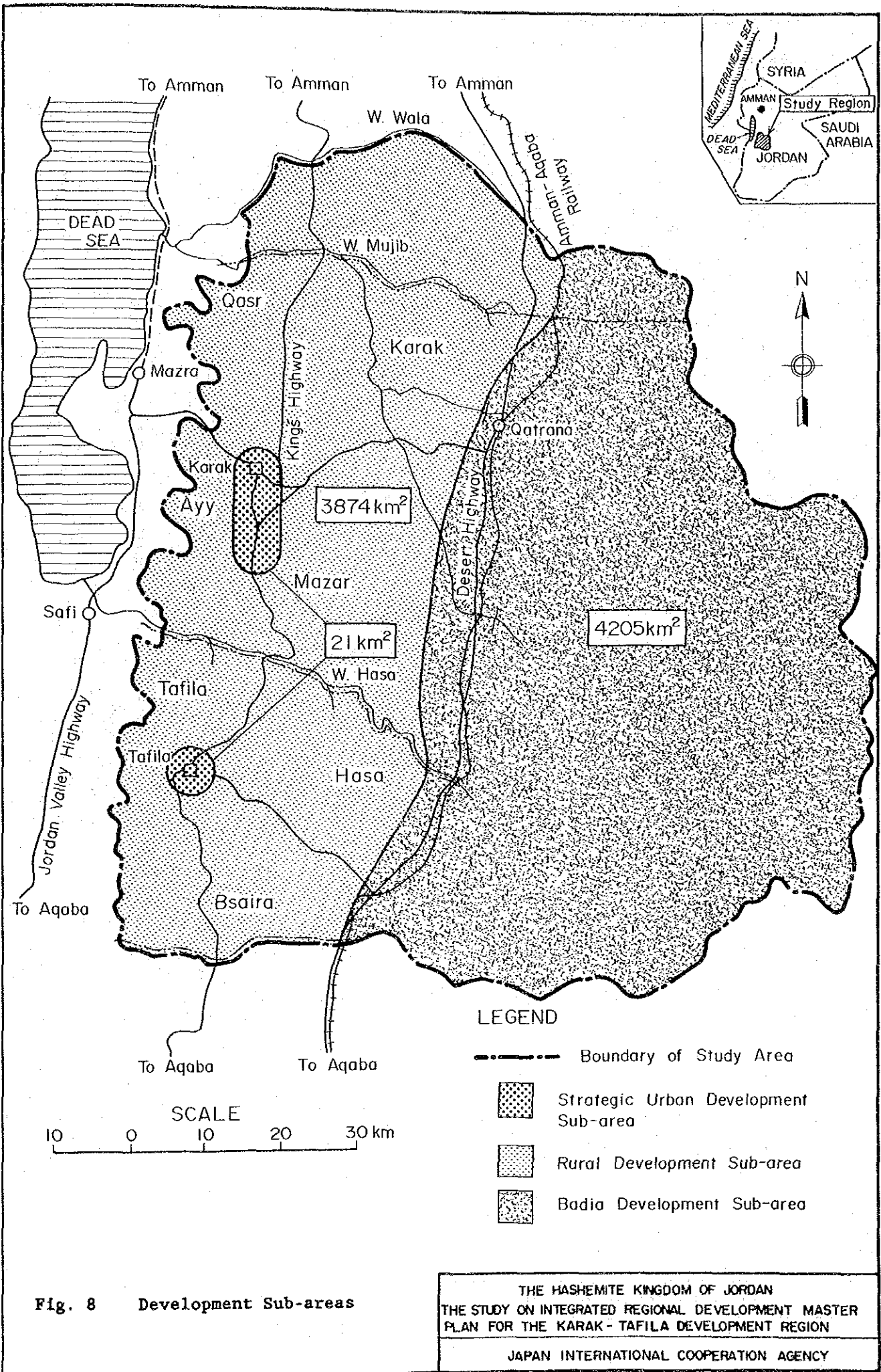


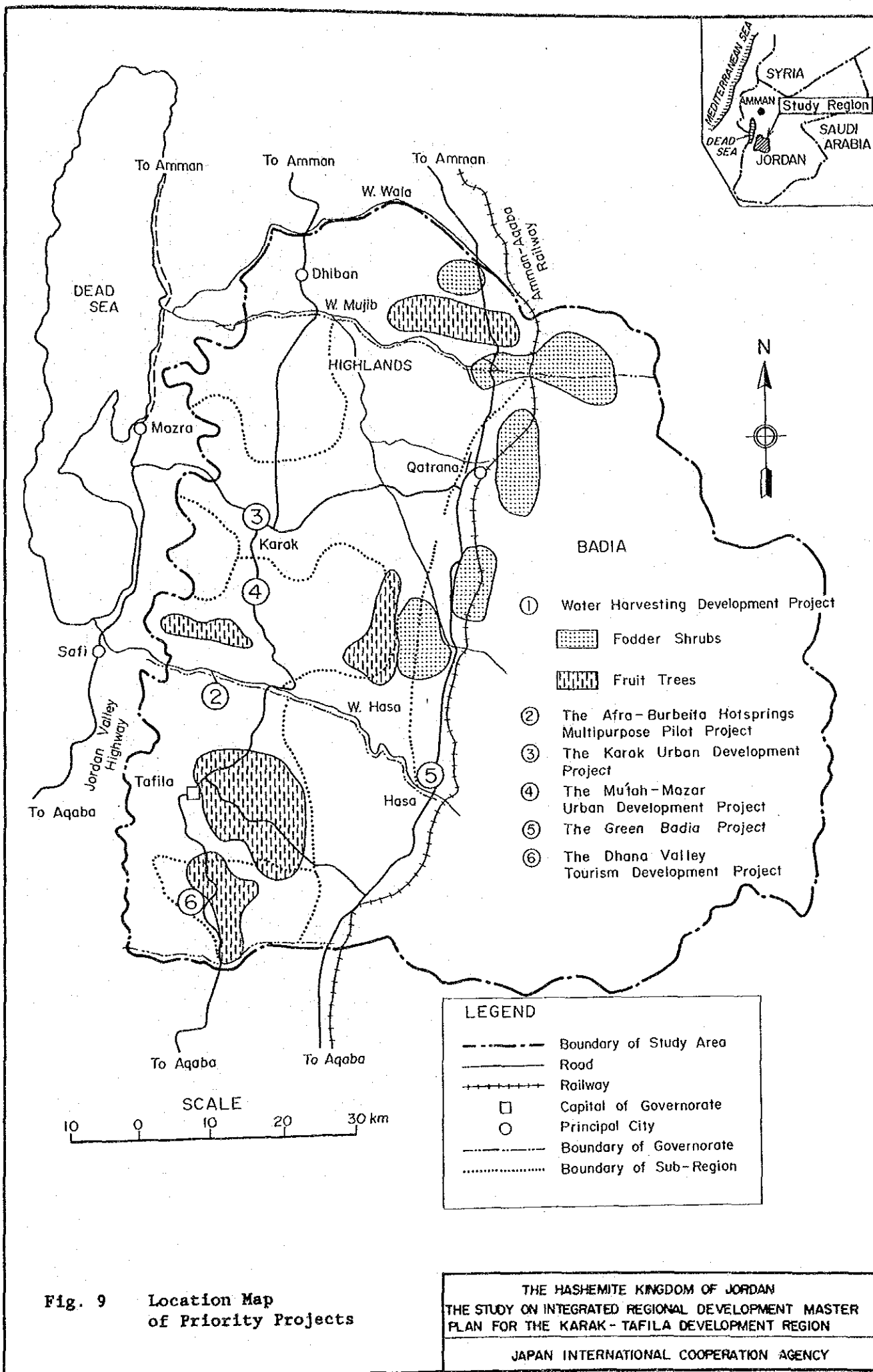
Fig. 7 Proposed Regional Tourism Network



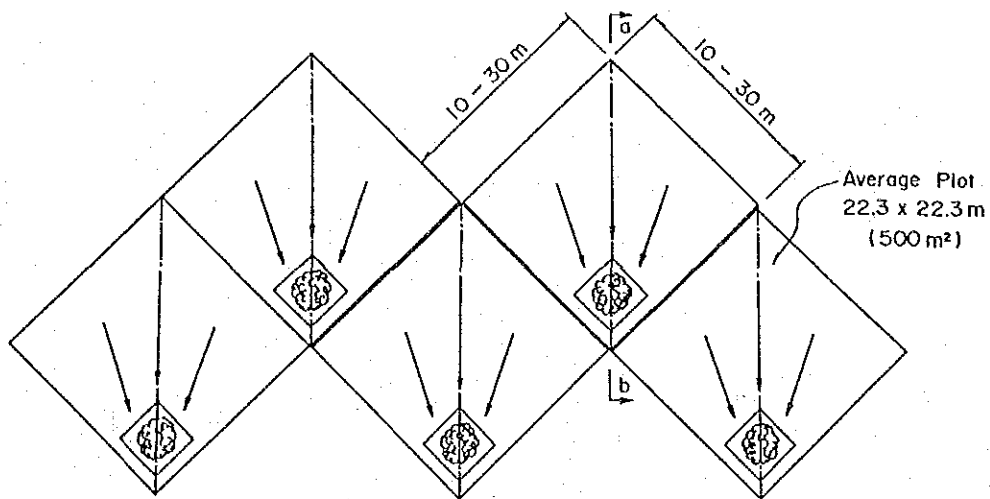












(The Arrows Indicate Direction of Runoff Flow.)

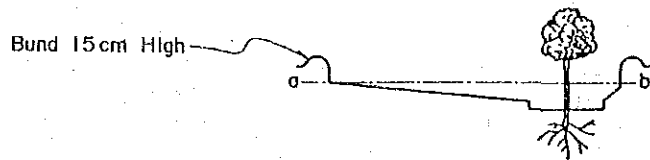


Illustration of Microcatchments

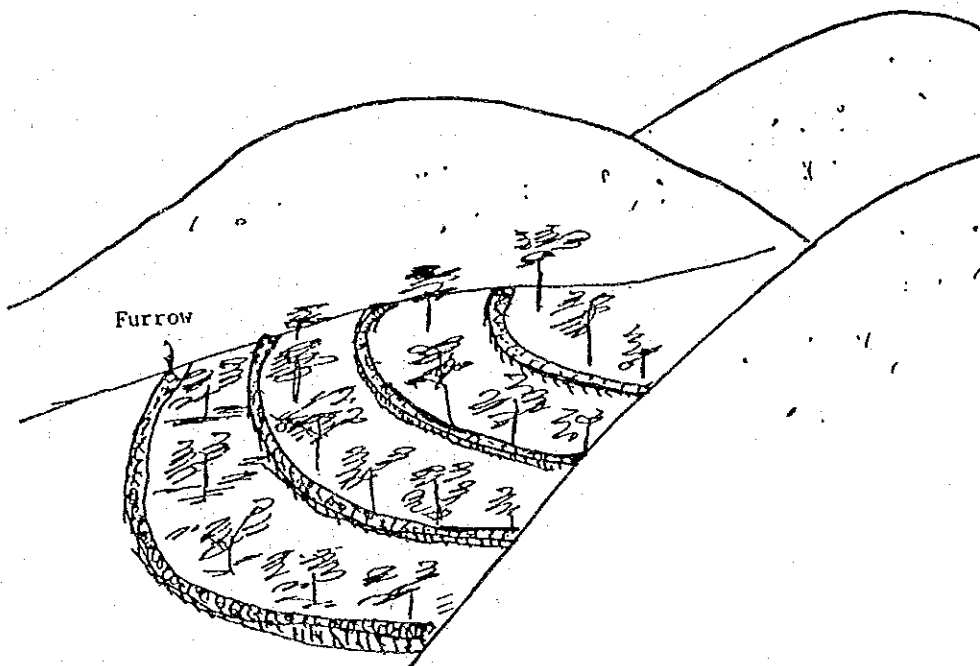


Illustration of Contour Furrow

Fig. 10 Illustration of Water Harvesting Scheme

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 THE STUDY ON INTEGRATED REGIONAL DEVELOPMENT MASTER  
 PLAN FOR THE KARAK - TAFILA DEVELOPMENT REGION

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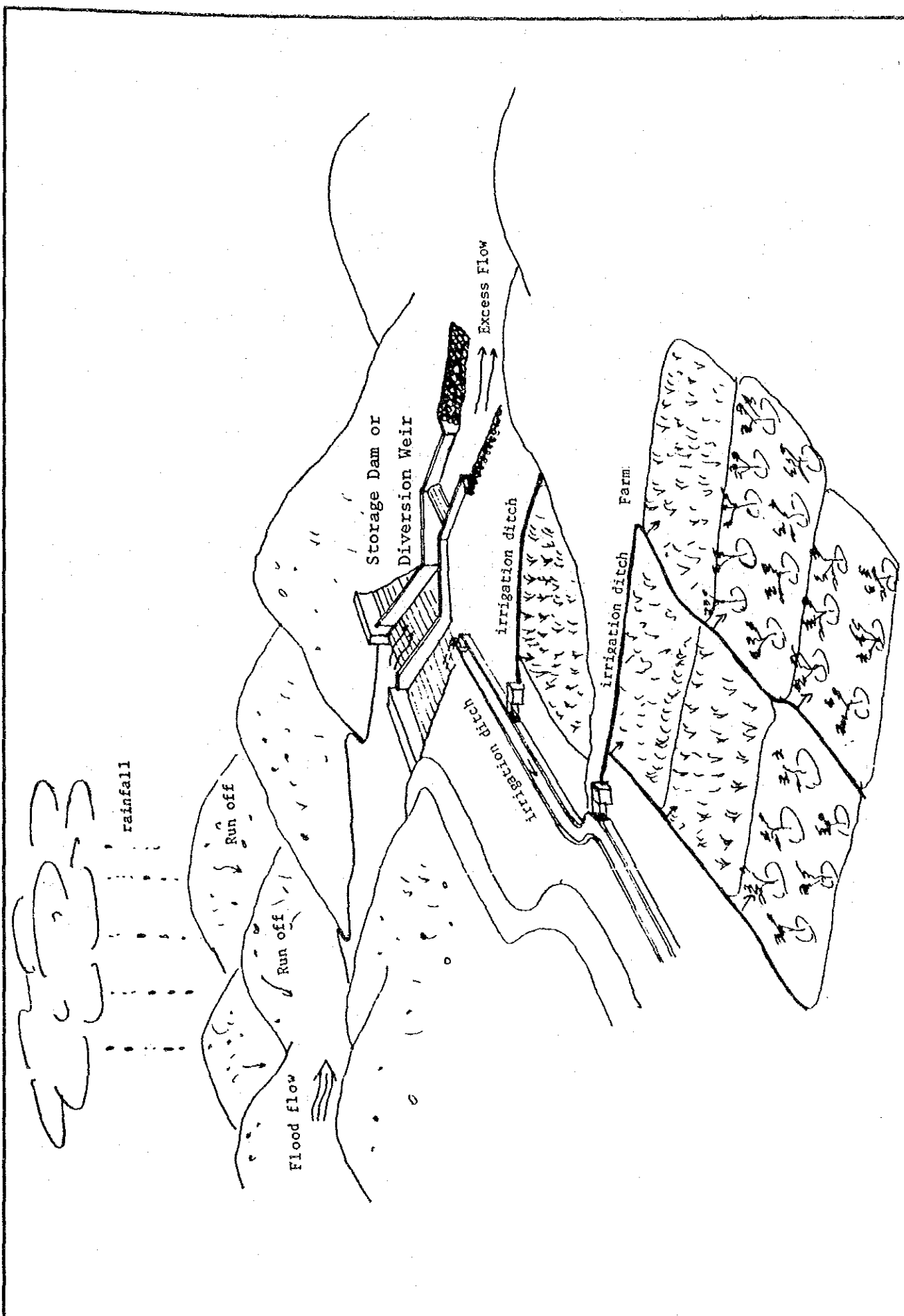
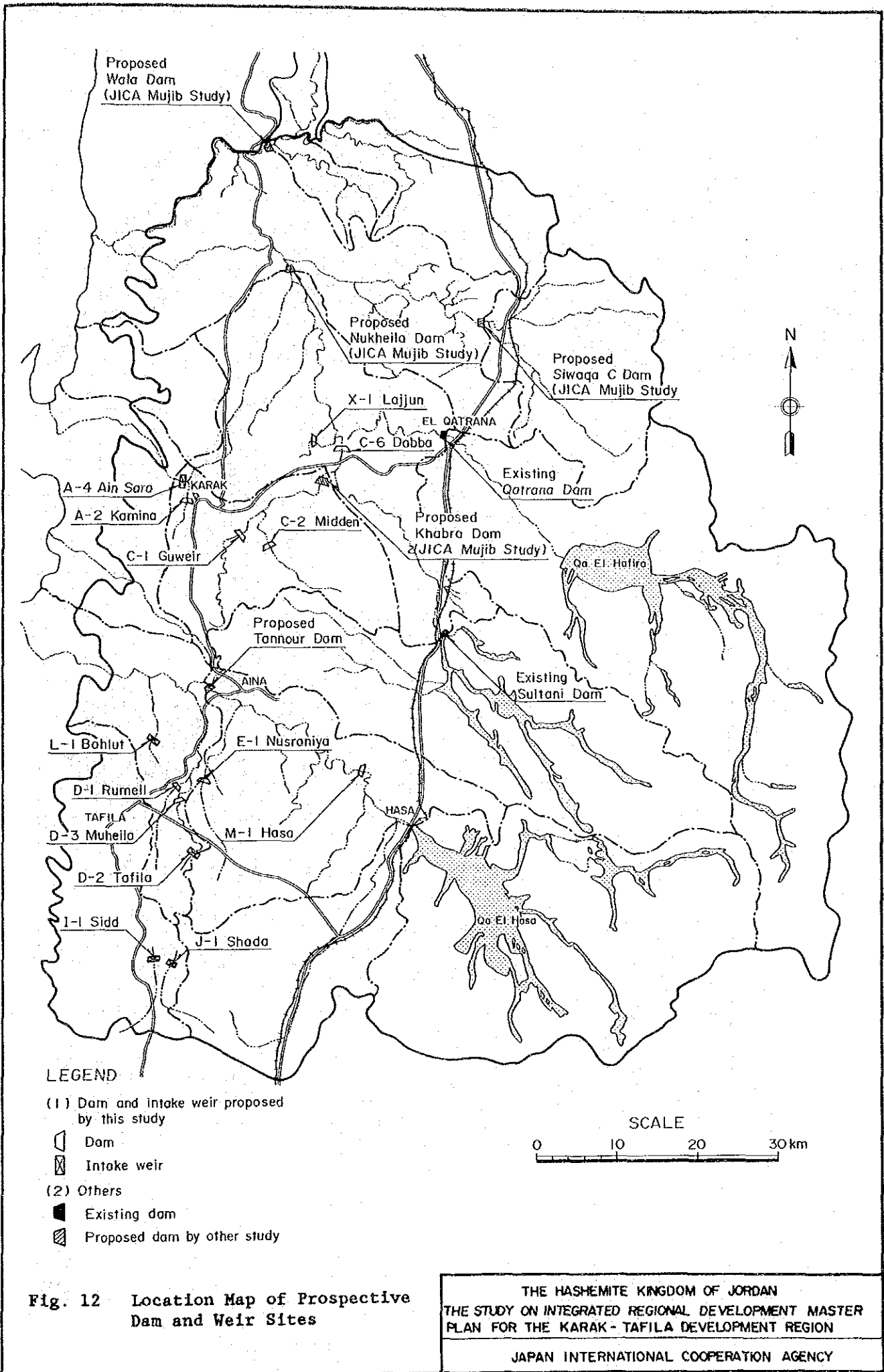


Fig. 11 Illustration of Winter Irrigation Scheme

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**Fig. 12 Location Map of Prospective Dam and Weir Sites**

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 THE STUDY ON INTEGRATED REGIONAL DEVELOPMENT MASTER PLAN FOR THE KARAK - TAFILA DEVELOPMENT REGION  
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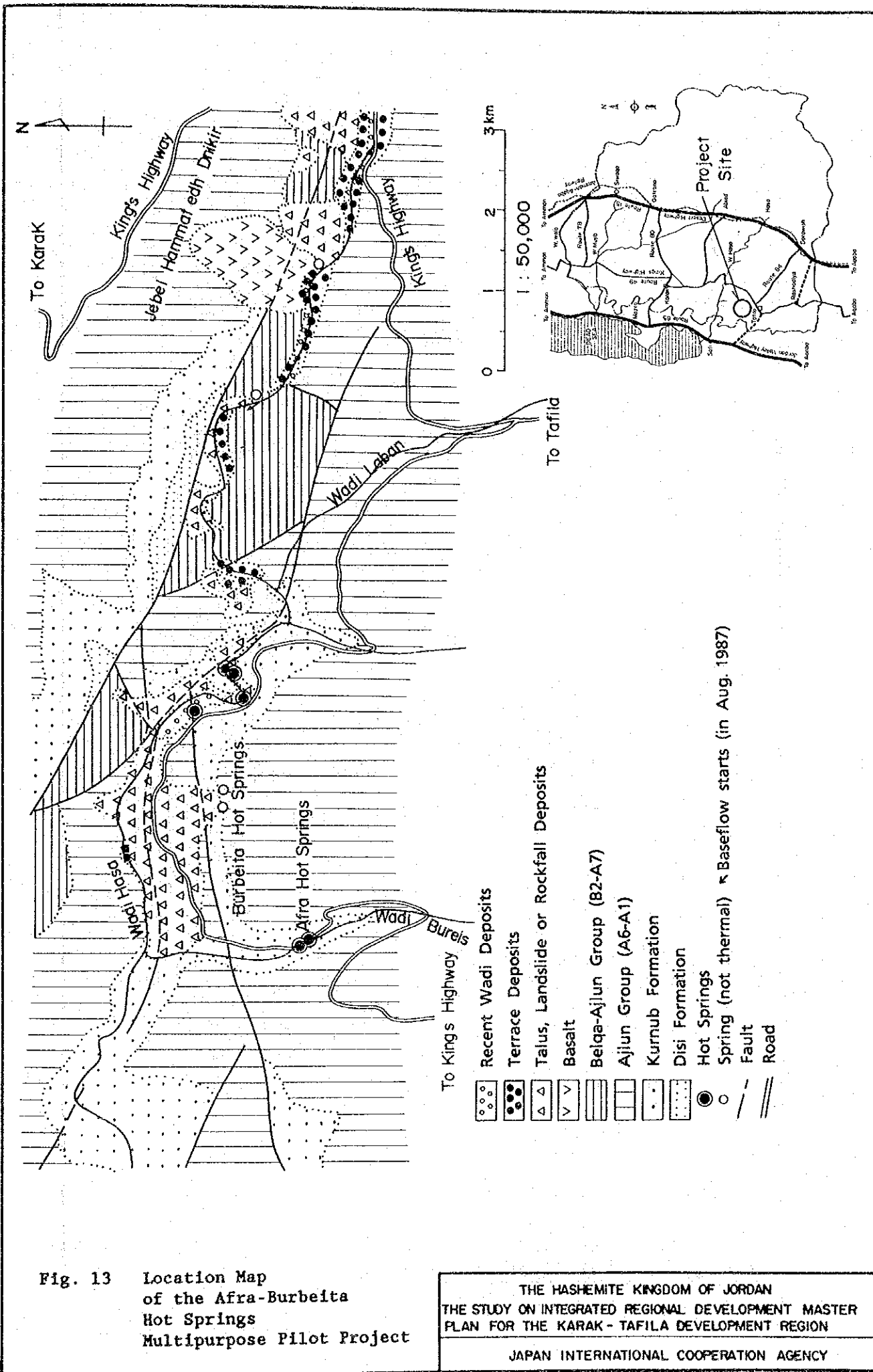


Fig. 13 Location Map of the Afra-Burbeita Hot Springs Multipurpose Pilot Project

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 THE STUDY ON INTEGRATED REGIONAL DEVELOPMENT MASTER  
 PLAN FOR THE KARAK - TAFILA DEVELOPMENT REGION  
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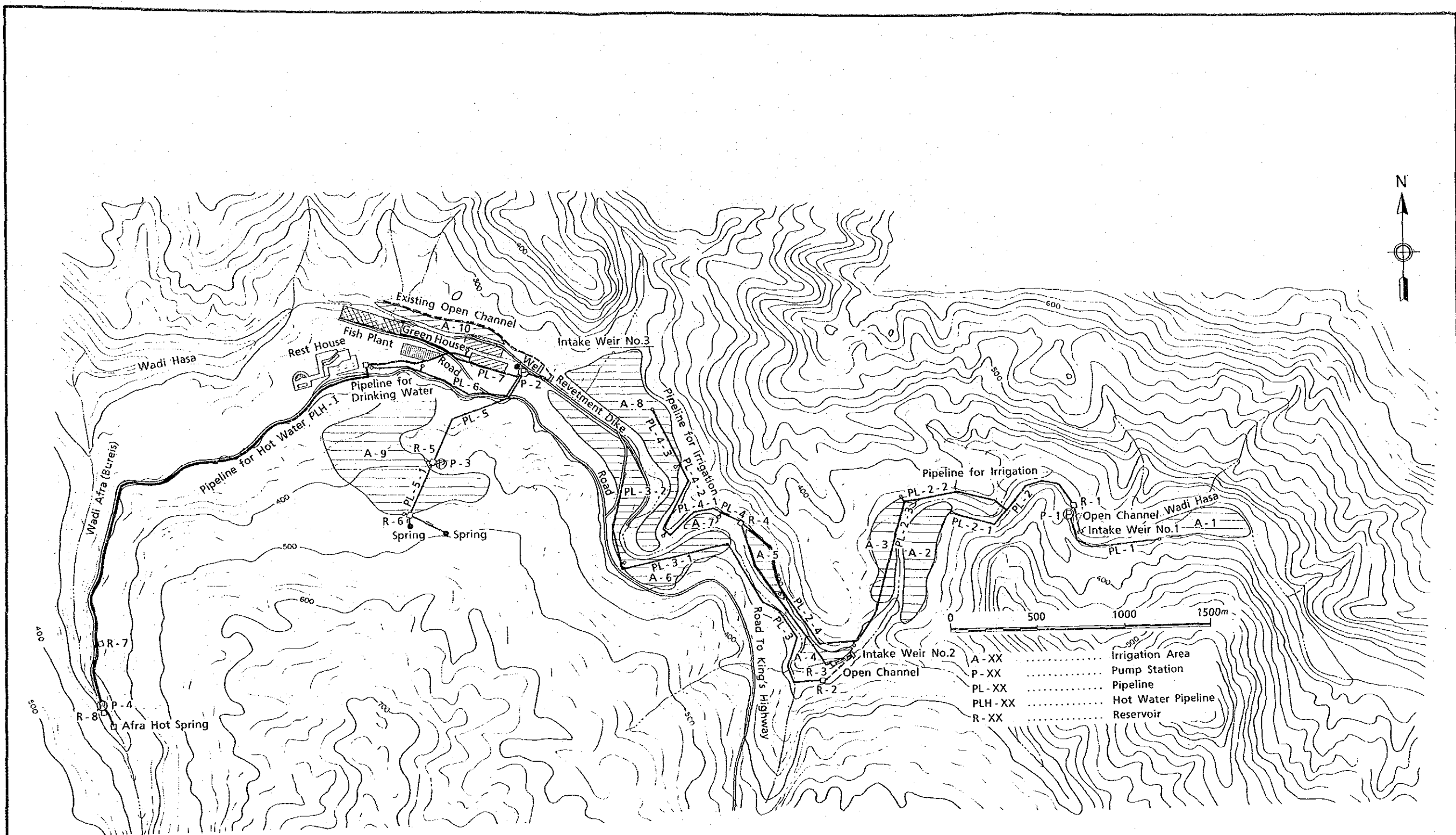


Fig. 14 General Layout  
of the Afra-Burbeita  
Hot Springs  
Multipurpose Pilot Project

THE HASHEMITE KINGDOM OF JORDAN  
THE STUDY ON INTEGRATED REGIONAL DEVELOPMENT MASTER  
PLAN FOR THE KARAK-TAFILA DEVELOPMENT REGION  
JAPAN INTERNATIONAL COOPERATION AGENCY



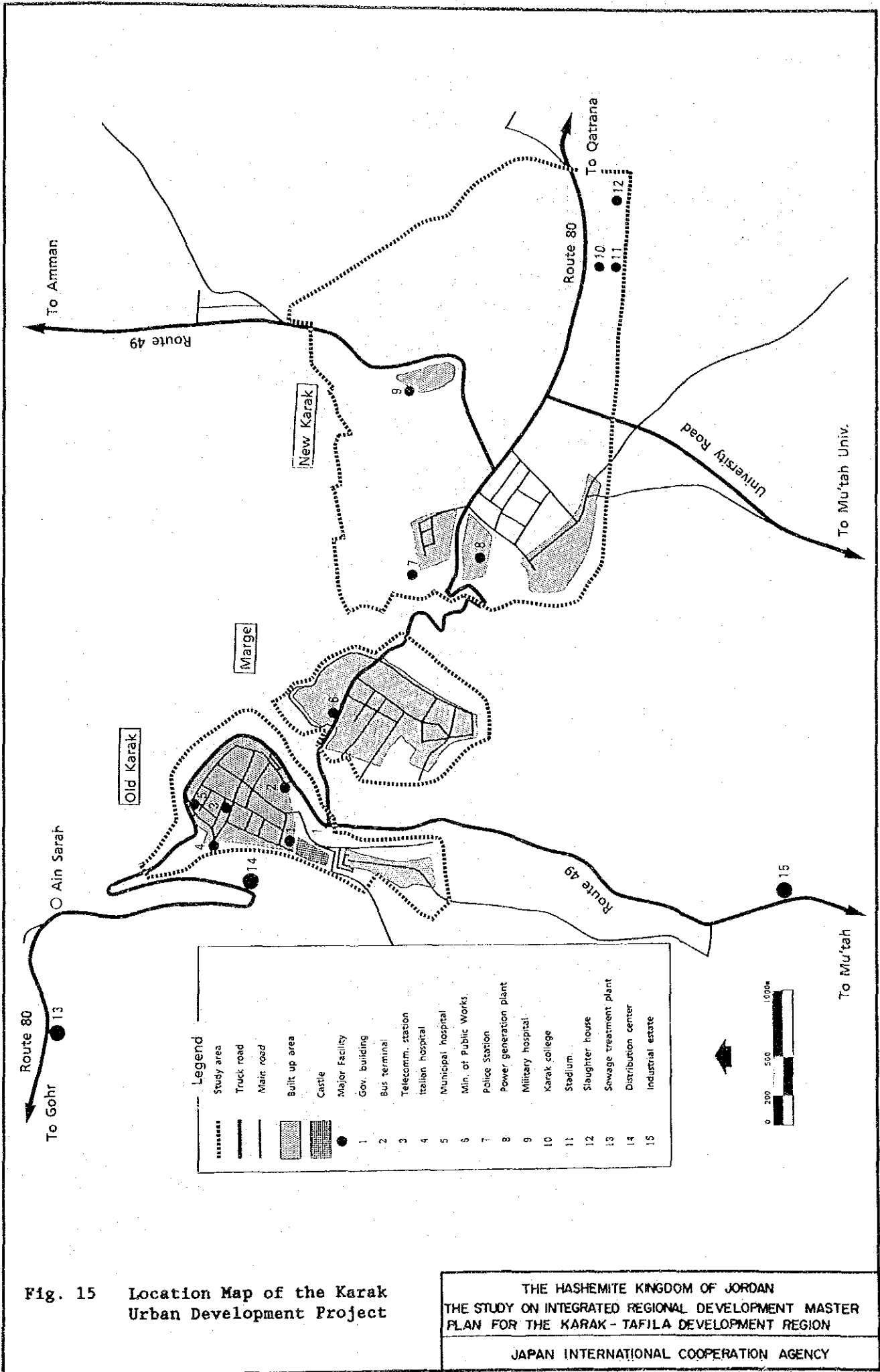


Fig. 15 Location Map of the Karak Urban Development Project

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 THE STUDY ON INTEGRATED REGIONAL DEVELOPMENT MASTER  
 PLAN FOR THE KARAK - TAFILA DEVELOPMENT REGION

JAPAN INTERNATIONAL COOPERATION AGENCY

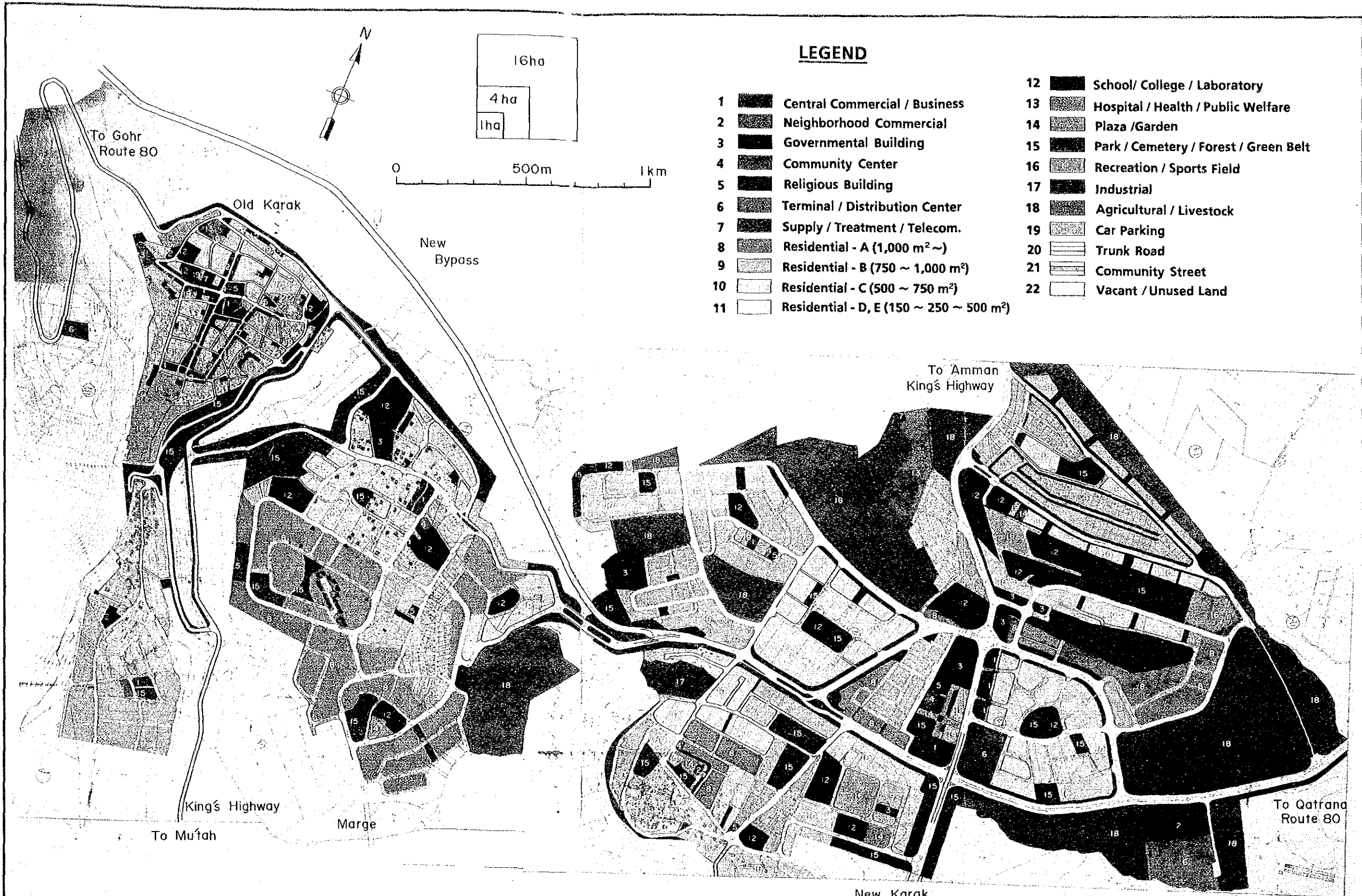




Fig. 16 Present Landuse of Karak

THE HASHEMITE KINGDOM OF JORDAN  
 THE STUDY ON INTEGRATED REGIONAL DEVELOPMENT MASTER  
 PLAN FOR THE KARAK - TAFILA DEVELOPMENT REGION

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**LEGEND**

- |    |  |    |                                       |
|----|--|----|---------------------------------------|
| 1  | Central Commercial / Business                        | 12 | School/ College / Laboratory          |
| 2  | Neighborhood Commercial                              | 13 | Hospital / Health / Public Welfare    |
| 3  | Governmental Building                                | 14 | Plaza /Garden                         |
| 4  | Community Center                                     | 15 | Park / Cemetery / Forest / Green Belt |
| 5  | Religious Building                                   | 16 | Recreation / Sports Field             |
| 6  | Terminal / Distribution Center                       | 17 | Industrial                            |
| 7  | Supply / Treatment / Telecom.                        | 18 | Agricultural / Livestock              |
| 8  | Residential - A (1,000 m <sup>2</sup> ~)             | 19 | Car Parking                           |
| 9  | Residential - B (750 ~ 1,000 m <sup>2</sup> )        | 20 | Trunk Road                            |
| 10 | Residential - C (500 ~ 750 m <sup>2</sup> )          | 21 | Community Street                      |
| 11 | Residential - D, E (150 ~ 250 ~ 500 m <sup>2</sup> ) | 22 | Vacant / Unused Land                  |

Fig. 17 Future Landuse Plan of Karak

THE HASHEMITE KINGDOM OF JORDAN  
 THE STUDY ON INTEGRATED REGIONAL DEVELOPMENT MASTER  
 PLAN FOR THE KARAK-TAFILA DEVELOPMENT REGION  
 JAPAN INTERNATIONAL COOPERATION AGENCY





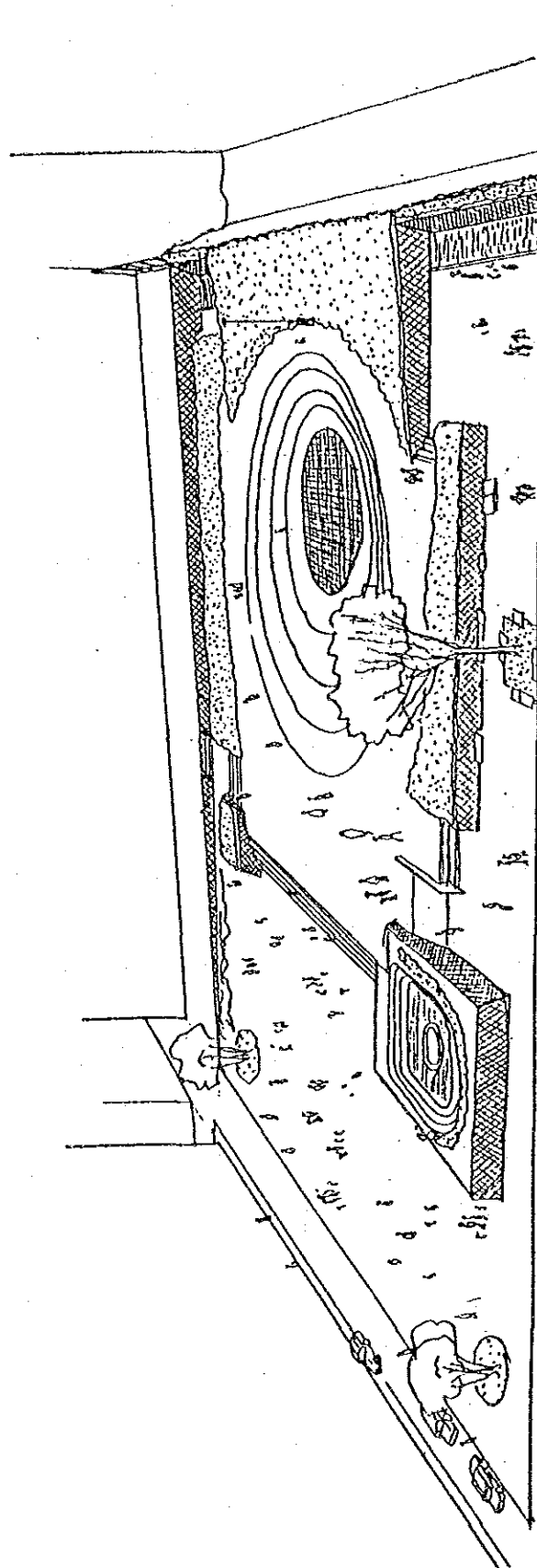


Fig. 18 Image Sketch  
of Restored Castle Square

THE HASHEMITE KINGDOM OF JORDAN  
THE STUDY ON INTEGRATED REGIONAL DEVELOPMENT MASTER  
PLAN FOR THE KARAK - TAFILA DEVELOPMENT REGION

JAPAN INTERNATIONAL COOPERATION AGENCY



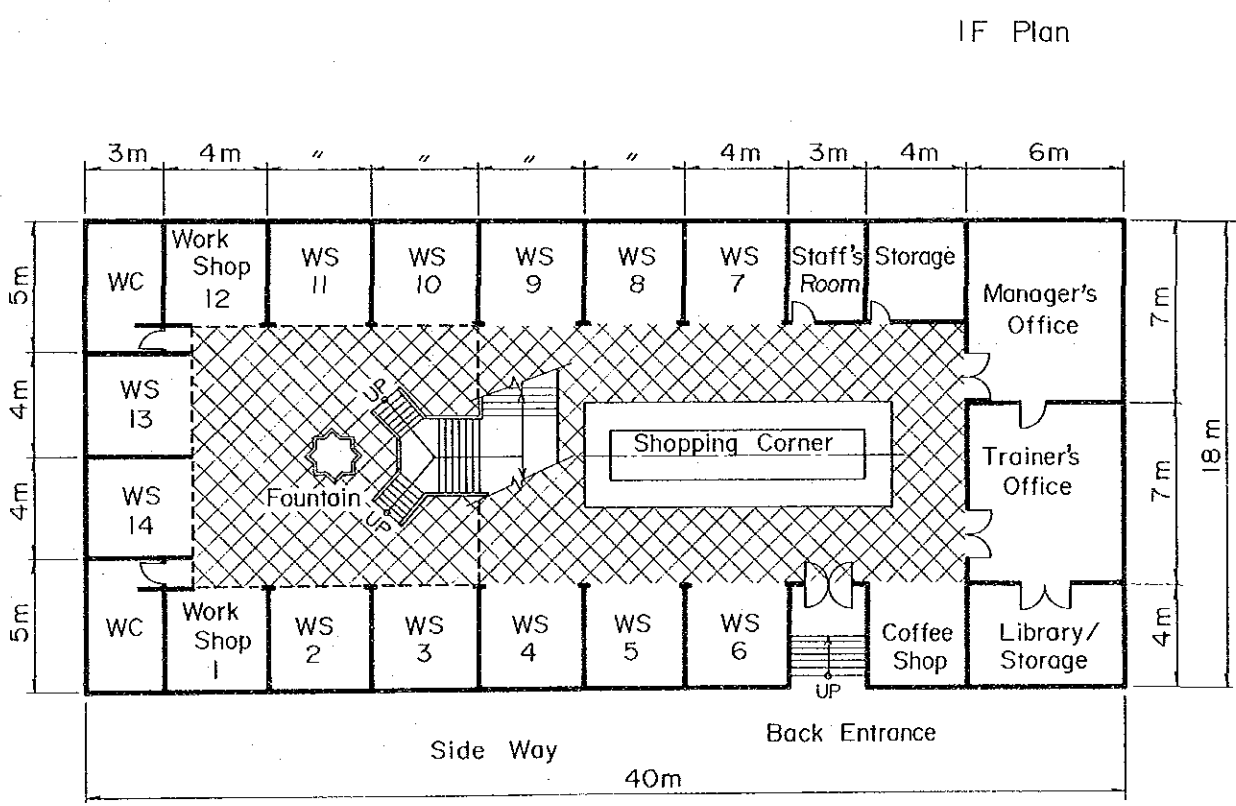
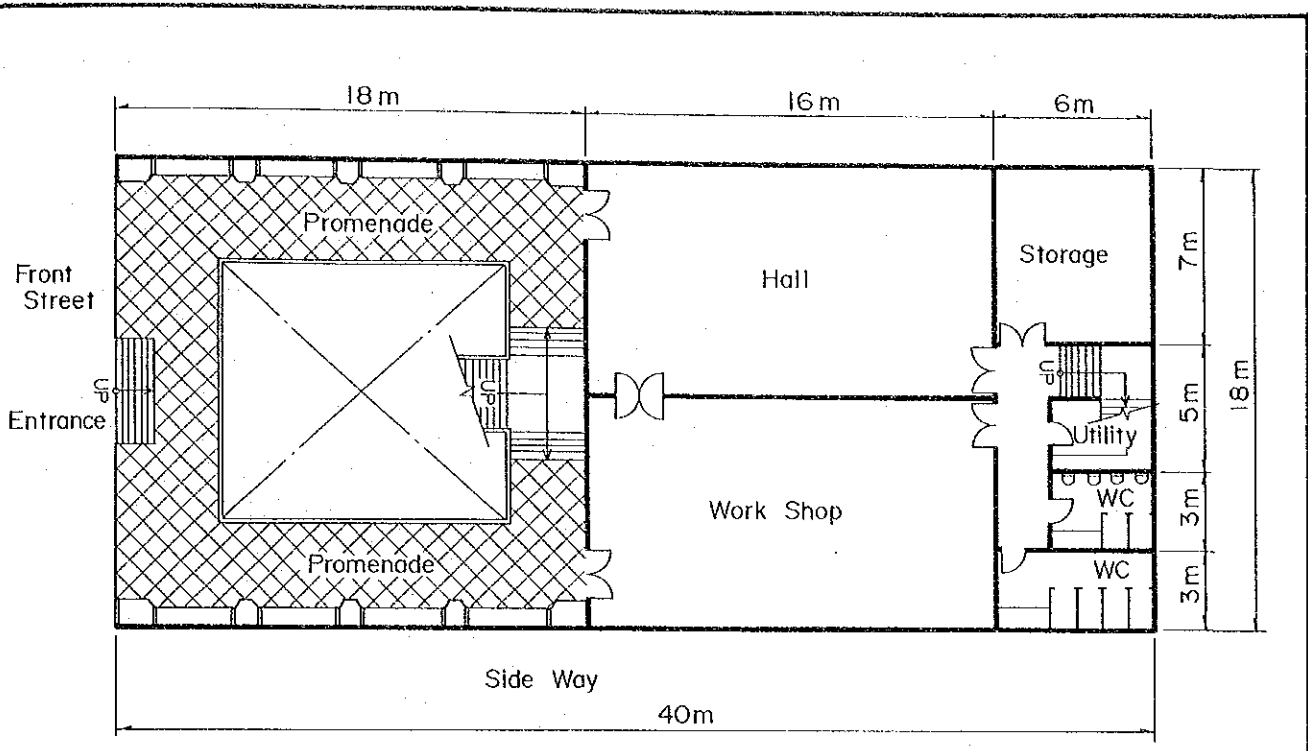
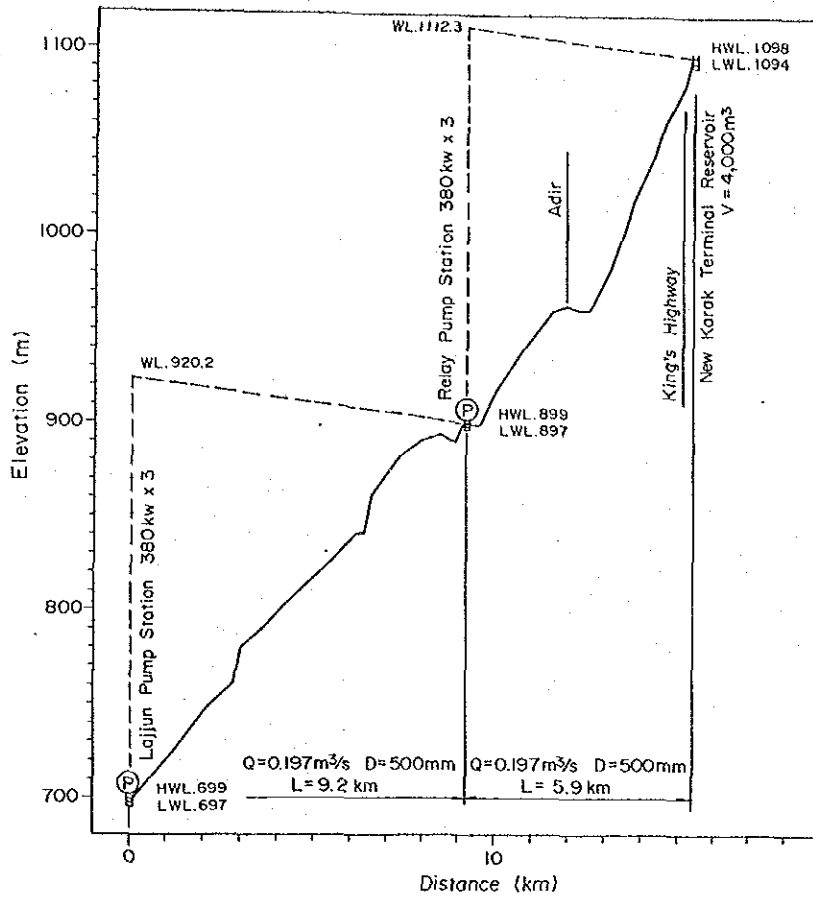
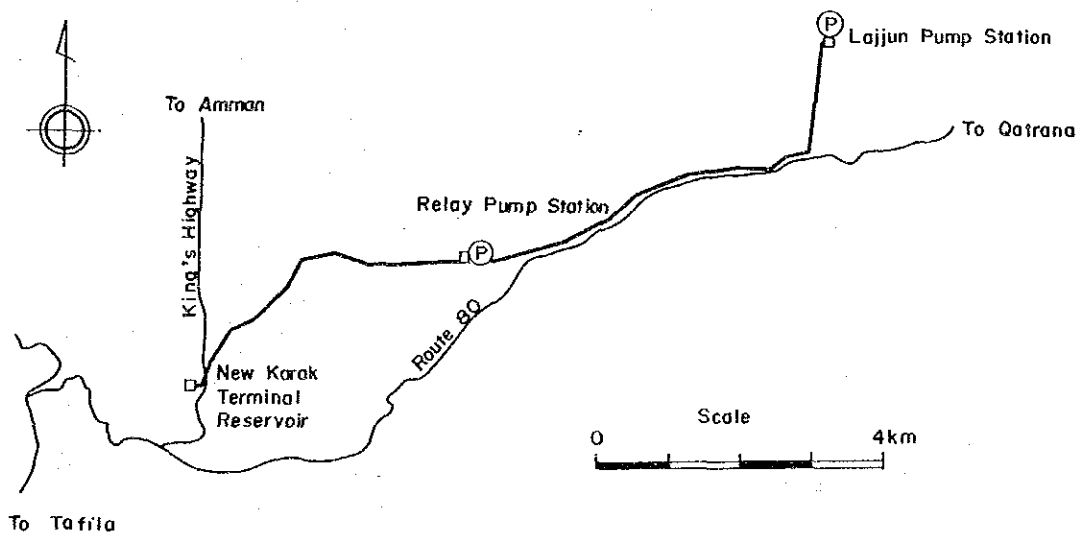


Fig. 19 Floor Plans of Karak Handicraft Centre





Profile



Plan

Fig. 20 Proposed Lajjun-Karak Pipeline

THE HASHEMITE KINGDOM OF JORDAN  
 THE STUDY ON INTEGRATED REGIONAL DEVELOPMENT MASTER  
 PLAN FOR THE KARAK - TAFILA DEVELOPMENT REGION

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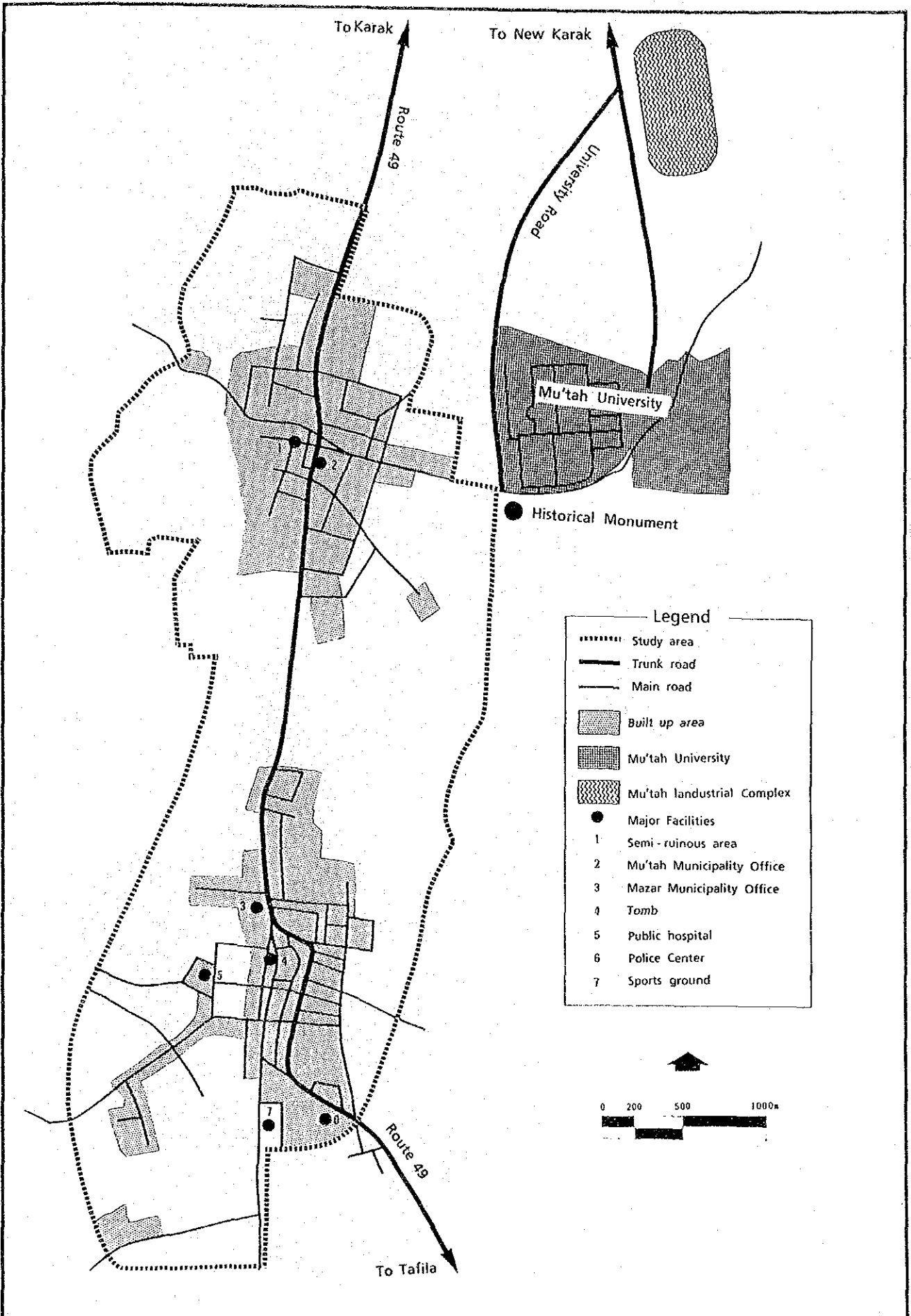


Fig. 21 Location Map of the Mu'tah-Mazar Urban Development Project





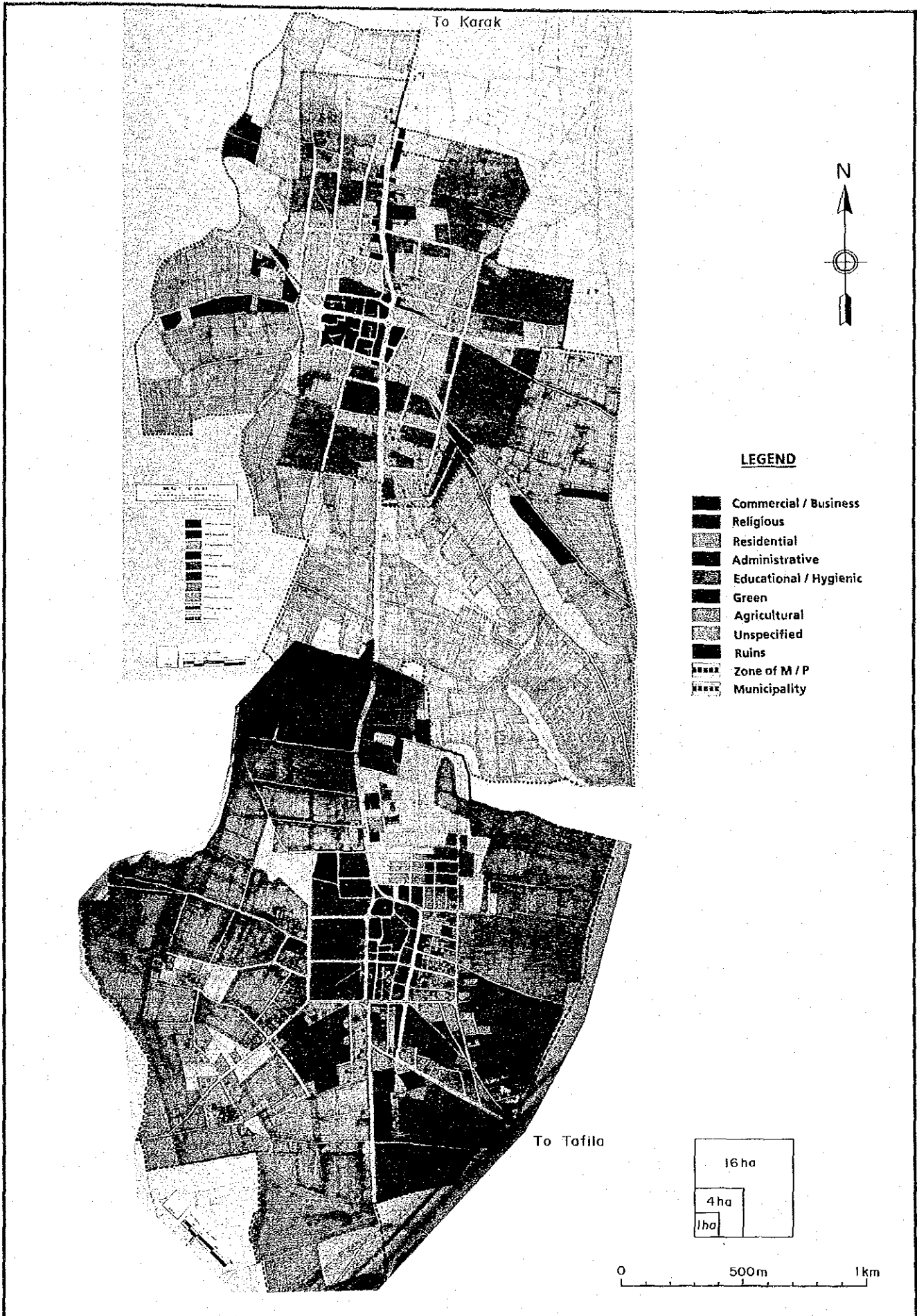
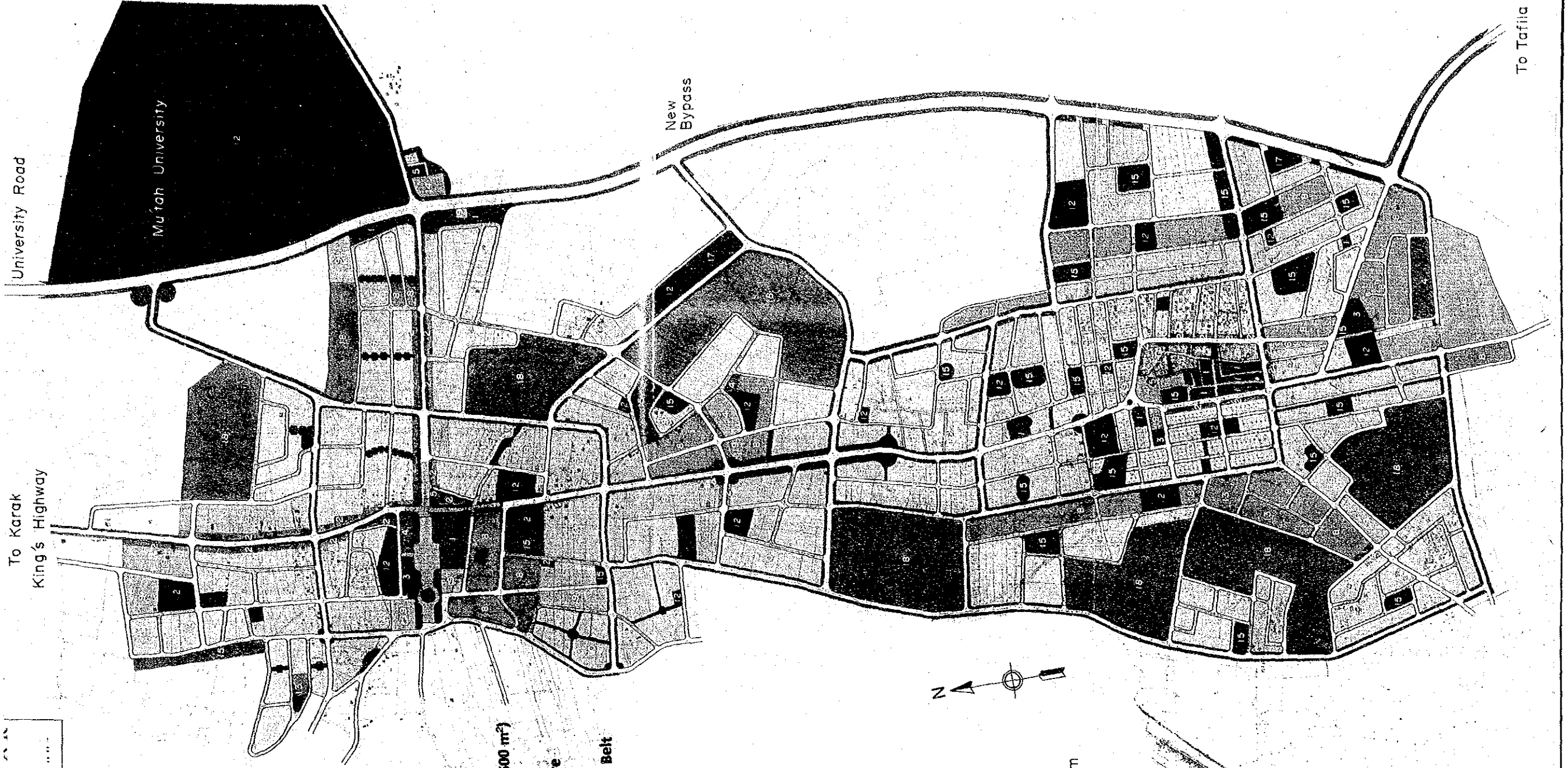


Fig. 22 Present Landuse of Mu'tah-Mazar



**LEGEND**

- |    |  |
|----|--|
| 1  | Central Commercial / Business                        |
| 2  | Neighborhood Commercial                              |
| 3  | Governmental Building                                |
| 4  | Community Center                                     |
| 5  | Religious Building                                   |
| 6  | Terminal / Distribution Center                       |
| 7  | Supply / Treatment / Telecom.                        |
| 8  | Residential - A (1,000 m <sup>2</sup> ~)             |
| 9  | Residential - B (750 ~ 1,000 m <sup>2</sup> )        |
| 10 | Residential - C (500 ~ 750 m <sup>2</sup> )          |
| 11 | Residential - D, E (150 ~ 250 ~ 500 m <sup>2</sup> ) |
| 12 | School/ College / Laboratory                         |
| 13 | Hospital / Health / Public Welfare                   |
| 14 | Plaza /Garden  |
| 15 | Park / Cemetery / Forest / Green Belt                |
| 16 | Recreation / Sports Field                            |
| 17 | Industrial   |
| 18 | Agricultural / Livestock                             |
| 19 | Car Parking  |
| 20 | Trunk Road   |
| 21 | Community Street                                     |
| 22 | Vacant / Unused Land                                 |

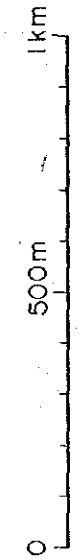
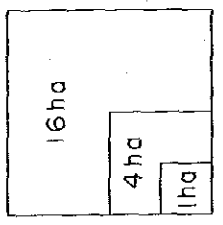
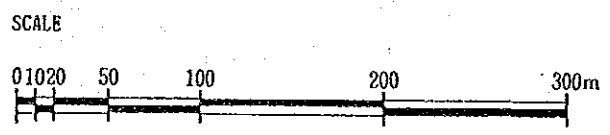
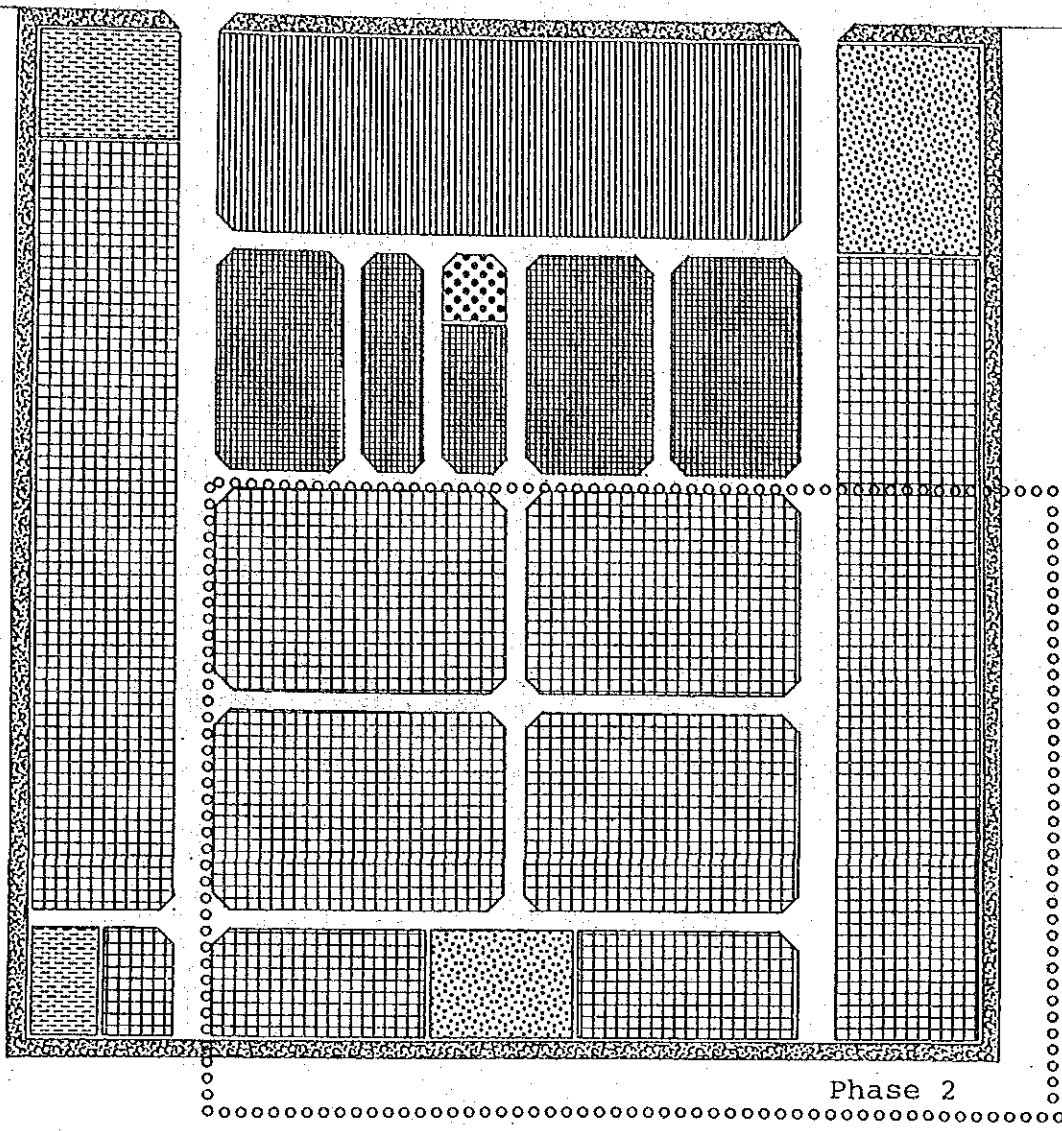


Fig. 23 Future Landuse Plan of Mu'tah-Mazar







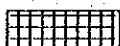




- LEGEND
-  Administrative and supporting facility land
  -  Standard factory land
  -  Custom built factory land
  -  Park
  -  Green boundary zone
  -  Warehouse
  -  Utilities

Fig. 24 Layout Plan of Mu'tah Industrial Estate

THE HASHEMITE KINGDOM OF JORDAN  
 THE STUDY ON INTEGRATED REGIONAL DEVELOPMENT MASTER PLAN FOR THE KARAK - TAFILA DEVELOPMENT REGION  
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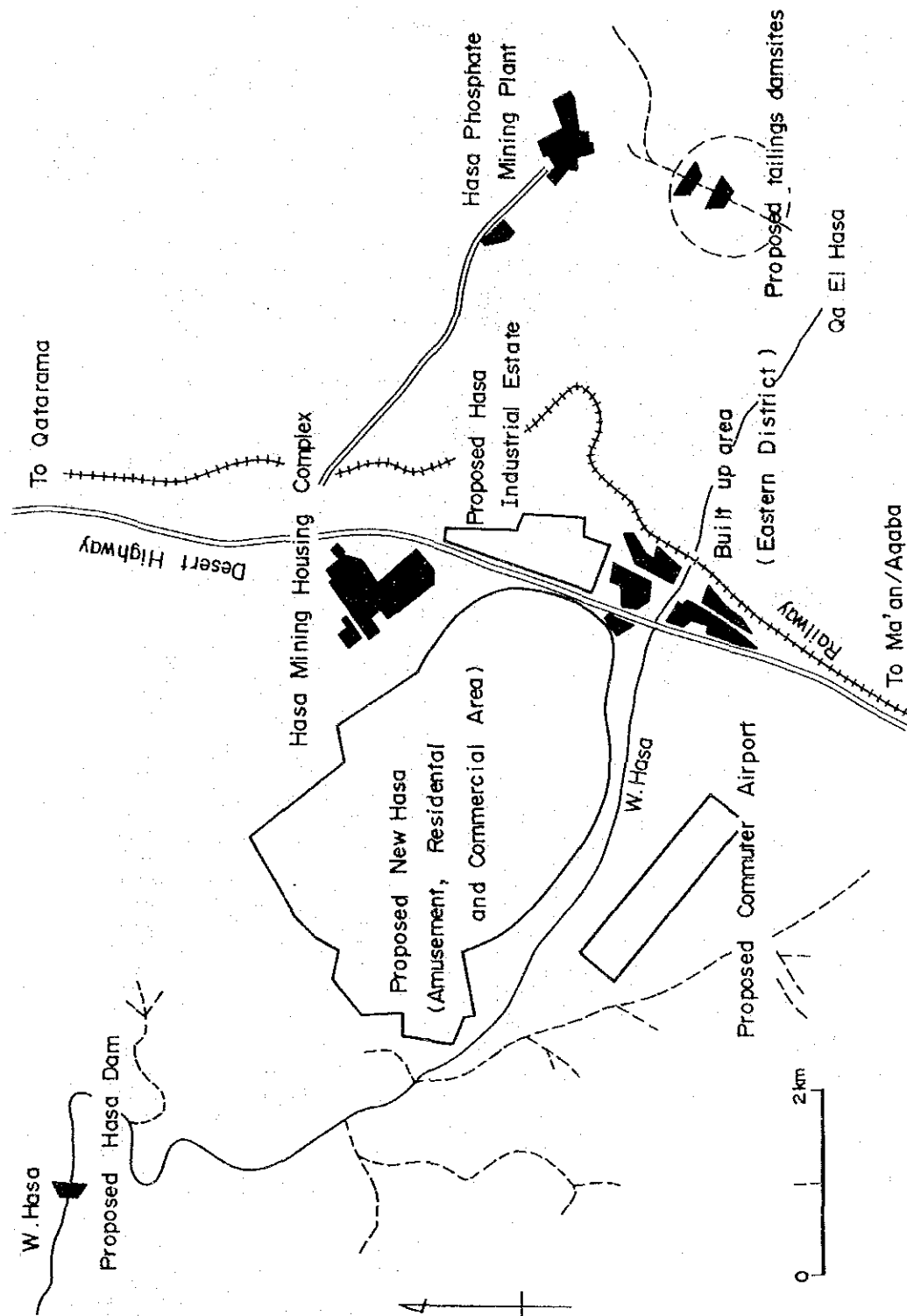


Fig. 25 Location Map of the Green Badia Project

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 THE STUDY ON INTEGRATED REGIONAL DEVELOPMENT MASTER  
 PLAN FOR THE KARAK - TAFILA DEVELOPMENT REGION

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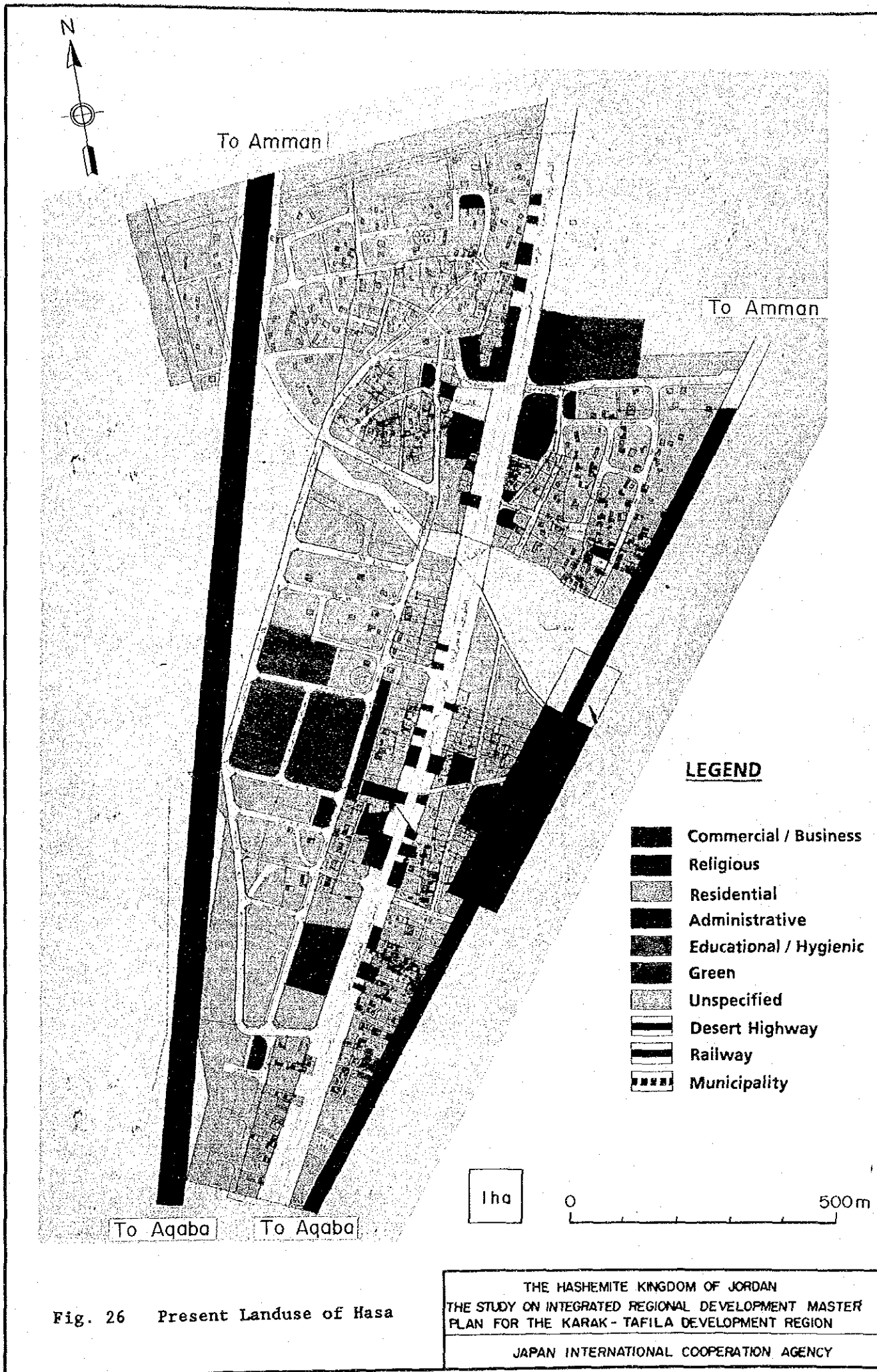


Fig. 26 Present Landuse of Hasa

THE HASHEMITE KINGDOM OF JORDAN  
 THE STUDY ON INTEGRATED REGIONAL DEVELOPMENT MASTER  
 PLAN FOR THE KARAK - TAFILA DEVELOPMENT REGION  
 JAPAN INTERNATIONAL COOPERATION AGENCY



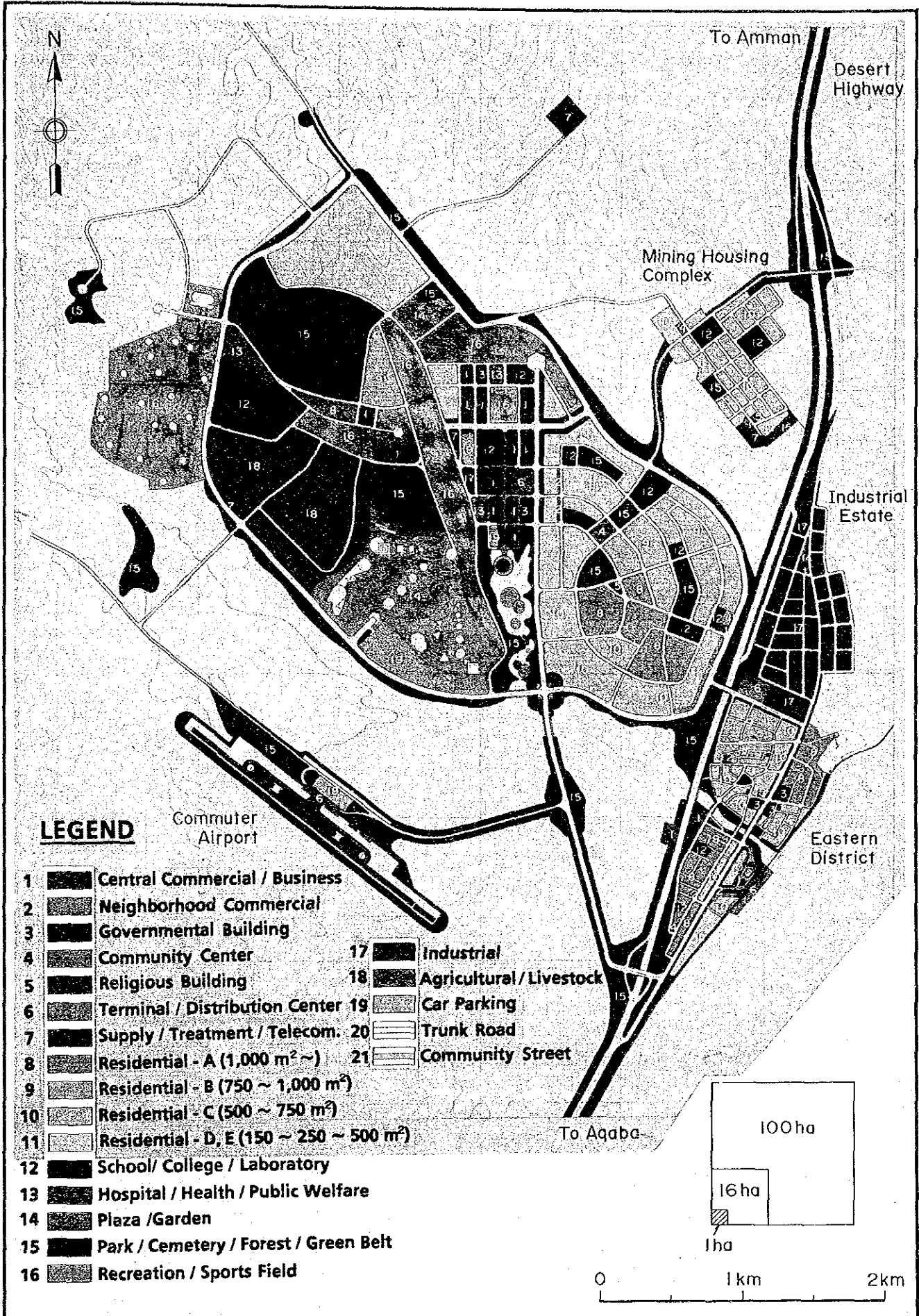


Fig. 27 Future Landuse Plan of Hasa

THE HASHEMITE KINGDOM OF JORDAN  
 THE STUDY ON INTEGRATED REGIONAL DEVELOPMENT MASTER PLAN FOR THE KARAK - TAFILA DEVELOPMENT REGION  
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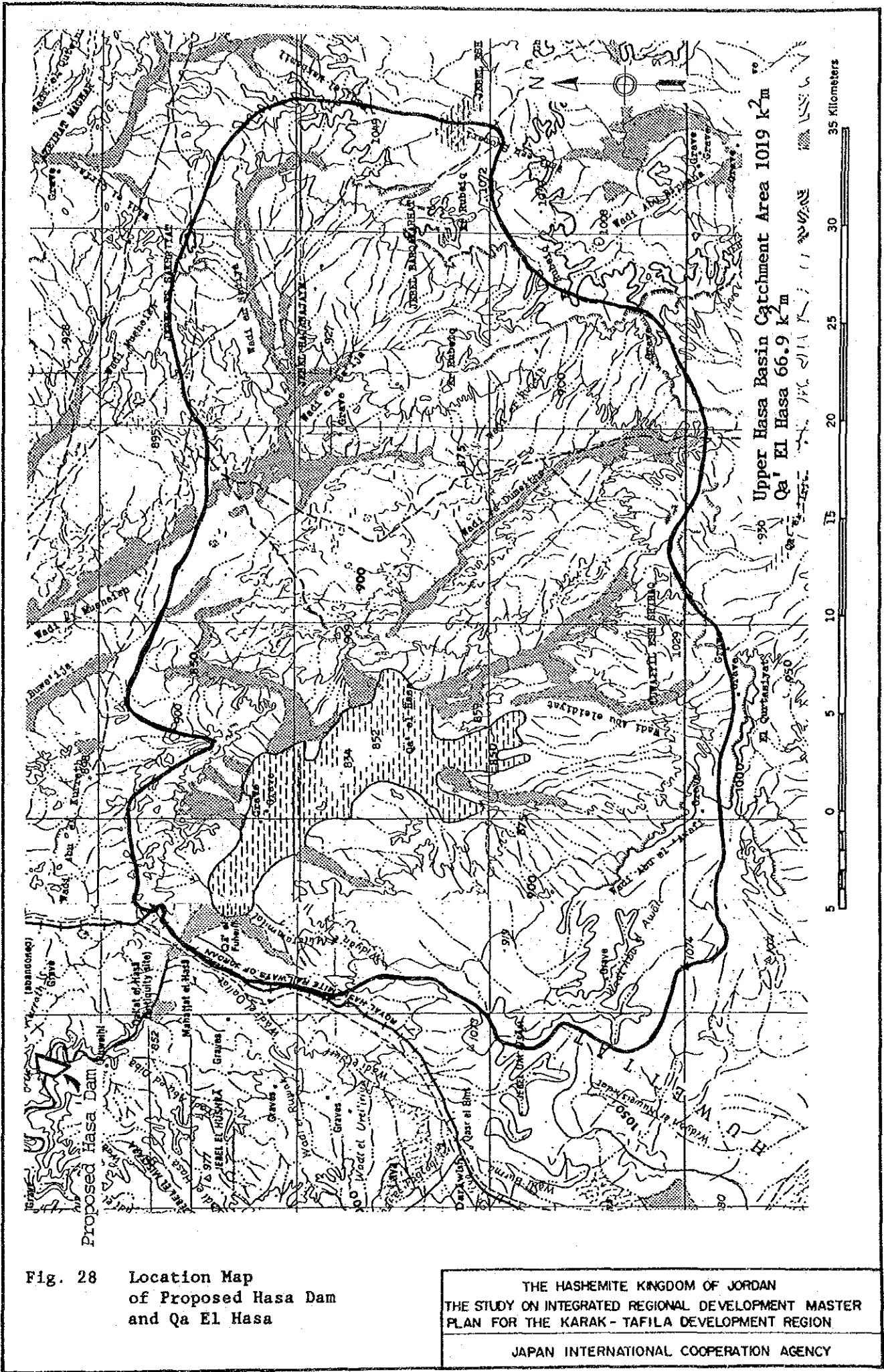


Fig. 28 Location Map of Proposed Hasa Dam and Qa El Hasa



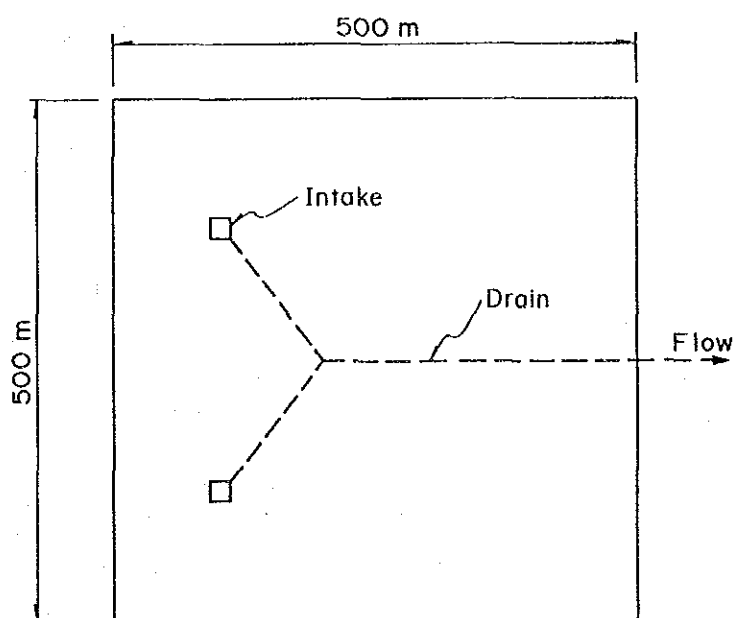
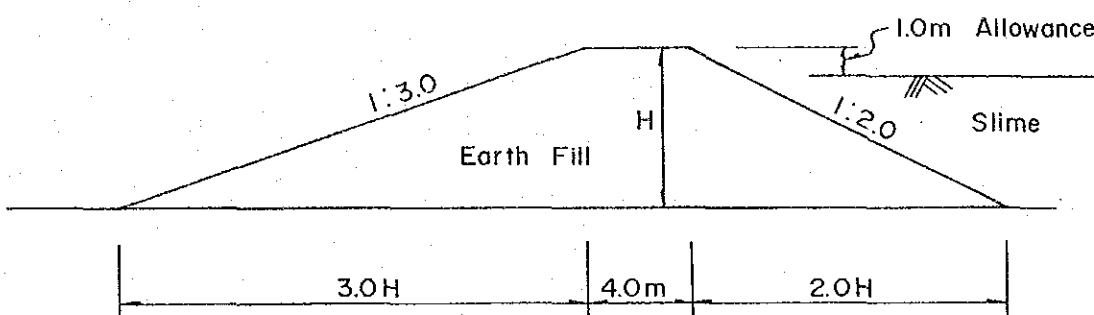
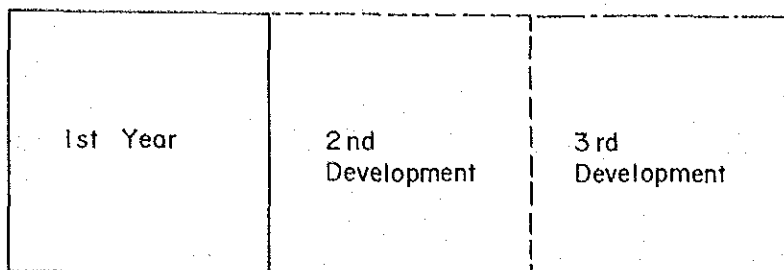
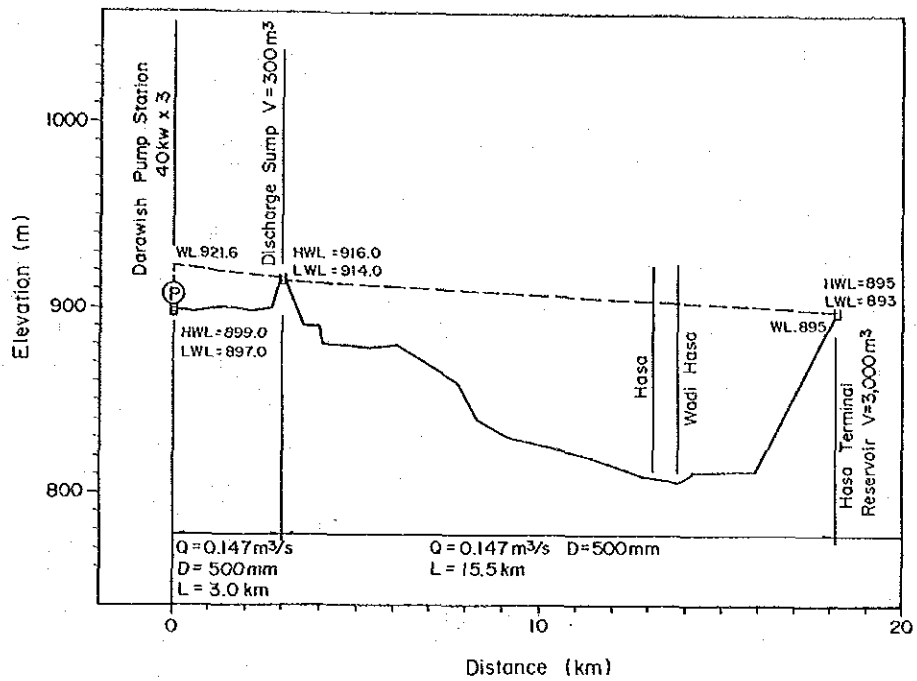


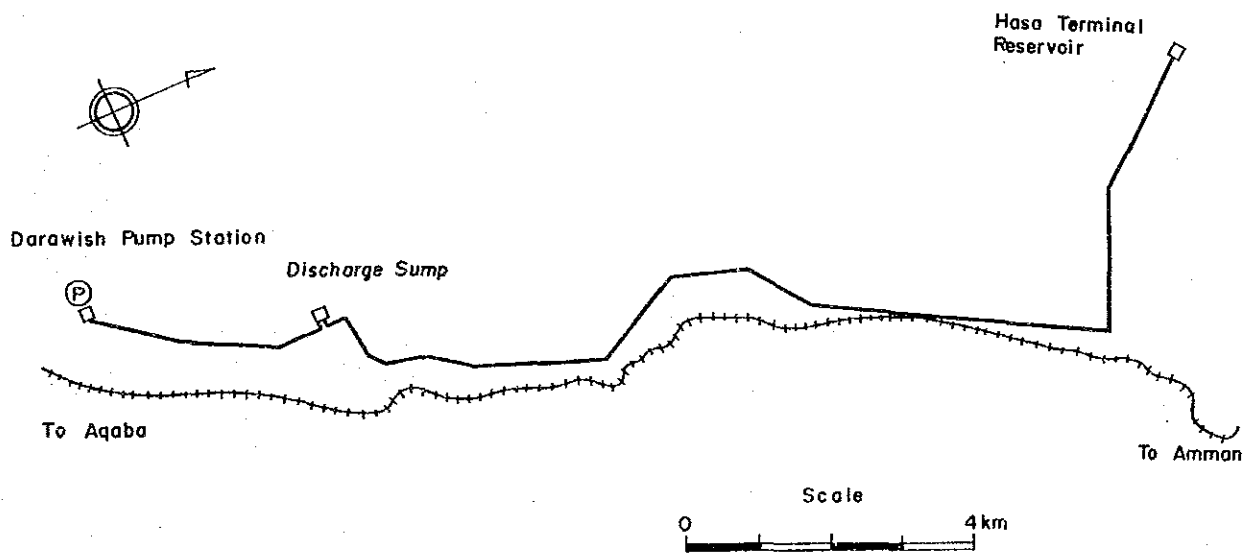
Fig. 29 Proposed Tailings Dam for Phosphate Mines







Profile



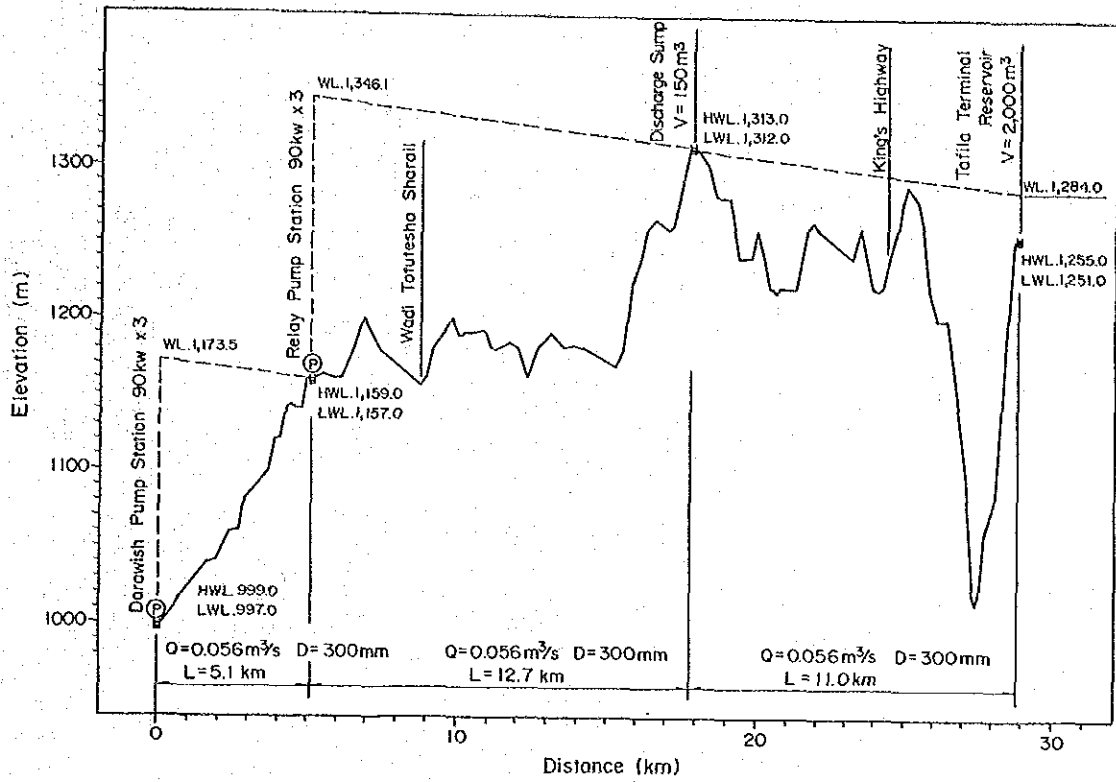
Plan

Fig. 30 Proposed Darawish-Hasa Pipeline

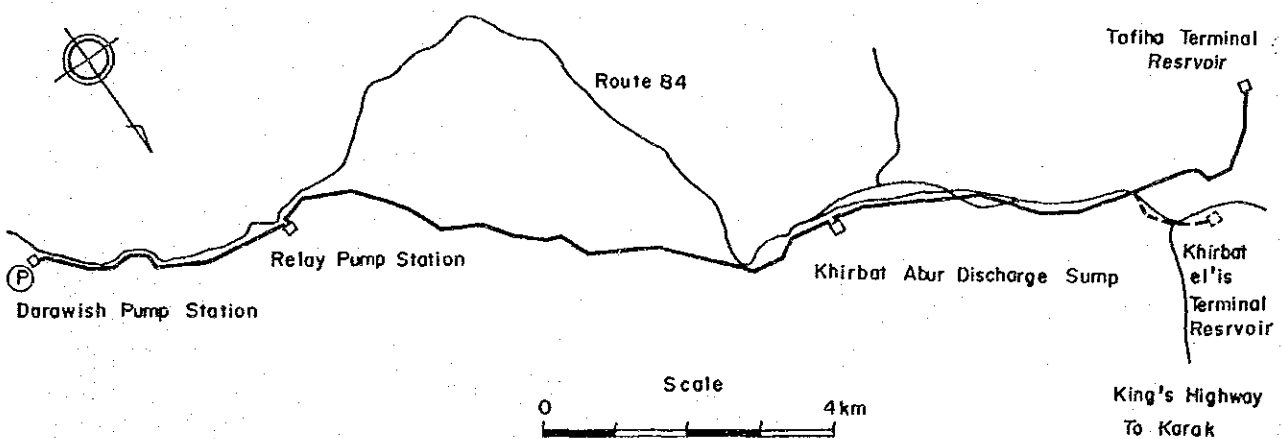
THE HASHEMITE KINGDOM OF JORDAN  
 THE STUDY ON INTEGRATED REGIONAL DEVELOPMENT MASTER  
 PLAN FOR THE KARAK - TAFILA DEVELOPMENT REGION

JAPAN INTERNATIONAL COOPERATION AGENCY





Profile



Plan

Fig. 31 Proposed Darawish-Tafila Pipeline



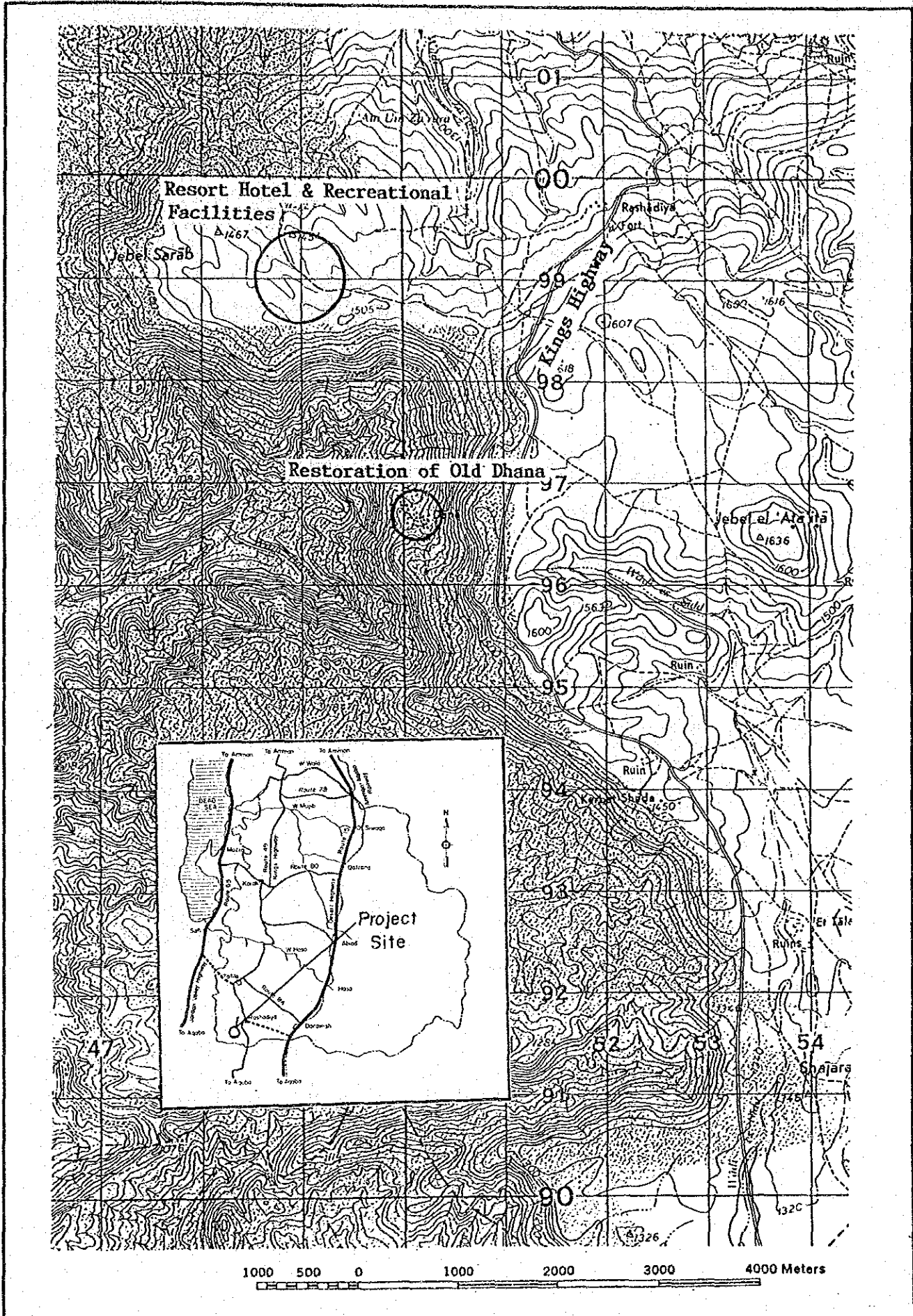


Fig. 32 Location Map of the Dhana Valley Tourism Development Project

THE HASHEMITE KINGDOM OF JORDAN  
 THE STUDY ON INTEGRATED REGIONAL DEVELOPMENT MASTER PLAN FOR THE KARAK - TAFILA DEVELOPMENT REGION  
 JAPAN INTERNATIONAL COOPERATION AGENCY





