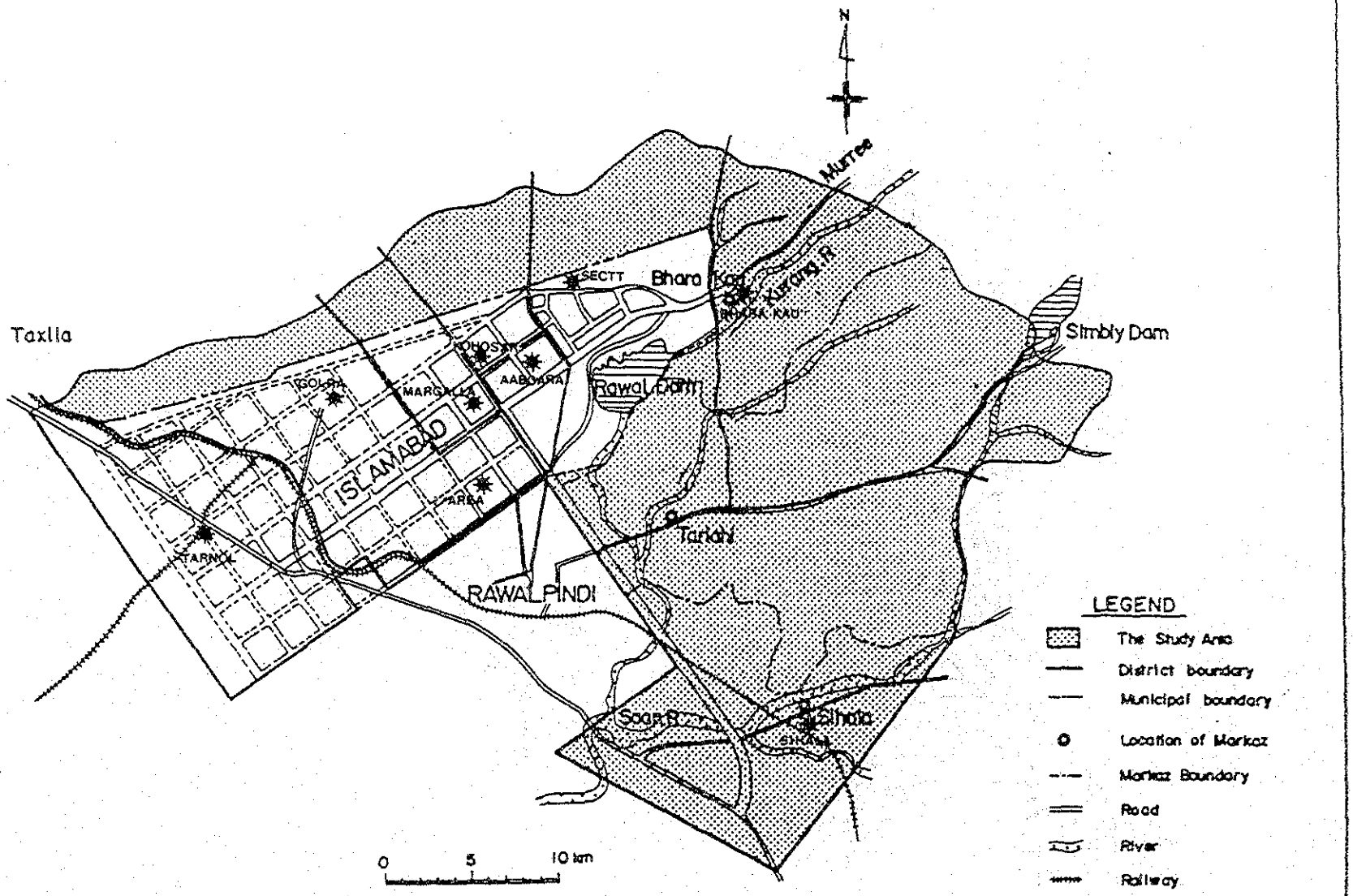


図11. 4 －1　駐在所位置図

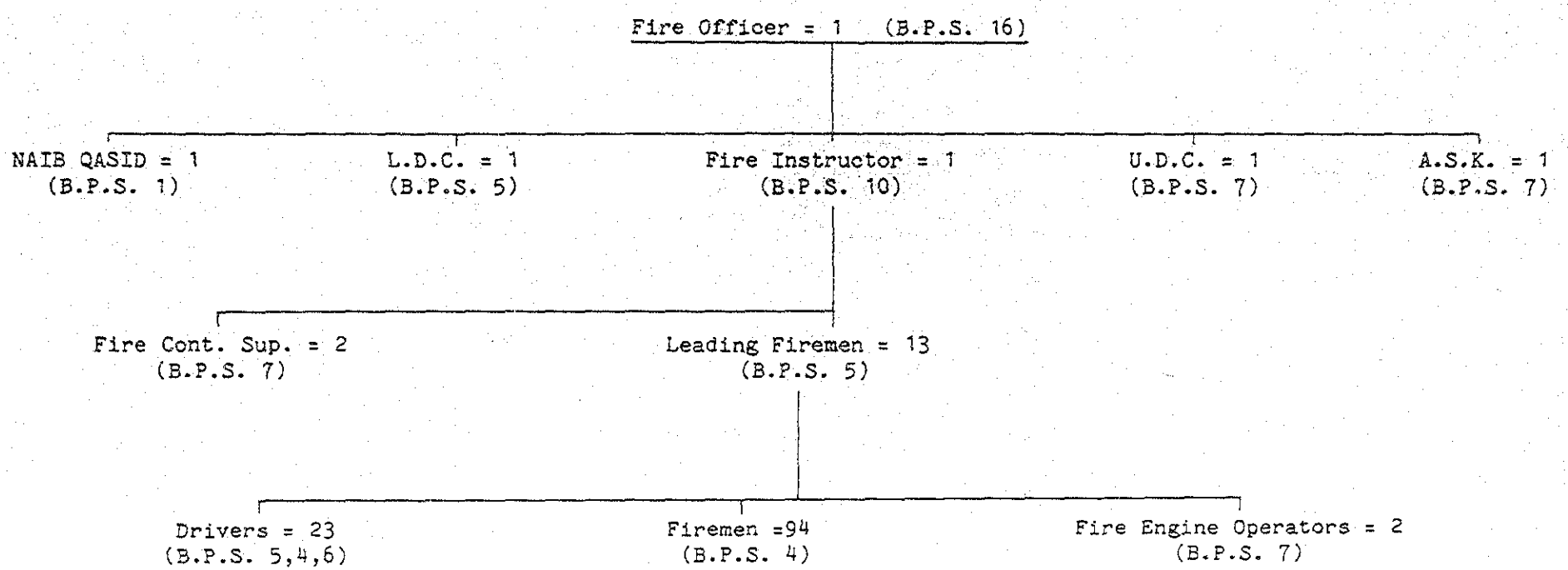
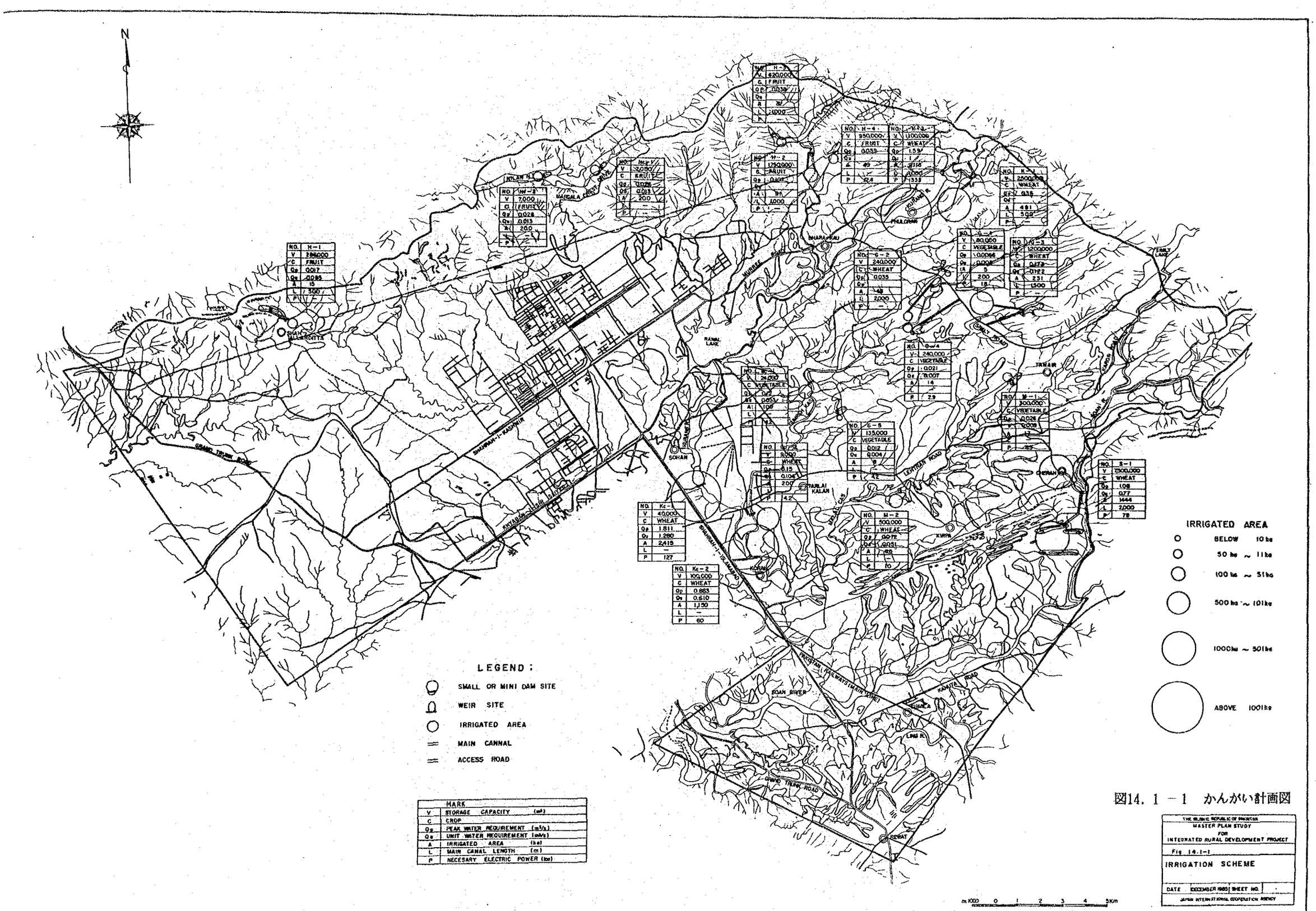


図11. 4 －2　ＣＤＡ消防局組織図



NO.	H-1
V	286,000
C	FRUIT
Qp	0.017
Qu	0.085
A	15
L	300
P	—

NO.	H-2
V	1,150,000
C	FRUIT
Qp	0.007
Qu	—
A	91
L	1000
P	—

NO.	H-3
V	620,000
C	FRUIT
Qp	0.039
Qu	—
A	31
L	1000
P	—

NO.	H-4
V	950,000
C	FRUIT
Qp	0.039
Qu	—
A	49
L	—
P	52.4

NO.	NW-1
V	7,000
C	FRUIT
Qp	0.026
Qu	0.013
A	200
L	—
P	—

NO.	NW-2
V	3,000
C	FRUIT
Qp	0.026
Qu	0.013
A	200
L	—
P	—

NO.	NW-3
V	1,100,000
C	WHEAT
Qp	1.39
Qu	1
A	2318
L	2,000
P	1338

NO.	K-1
V	2,500,000
C	WHEAT
Qp	0.036
Qu	—
A	481
L	500
P	—

NO.	G-1
V	80,000
C	VEGETABLE
Qp	0.0046
Qu	0.0018
A	5
L	200
P	18

NO.	G-2
V	240,000
C	WHEAT
Qp	0.035
Qu	—
A	48
L	2000
P	—

NO.	G-3
V	1,200,000
C	WHEAT
Qp	0.172
Qu	0.122
A	231
L	1500
P	—

NO.	G-4
V	240,000
C	VEGETABLE
Qp	0.021
Qu	0.007
A	14
L	—
P	7.9

NO.	G-5
V	135,000
C	VEGETABLE
Qp	0.012
Qu	0.004
A	8
L	—
P	4.2

NO.	W-1
V	300,000
C	VEGETABLE
Qp	0.026
Qu	0.009
A	17
L	—
P	9.5

NO.	S-1
V	2,500,000
C	WHEAT
Qp	1.08
Qu	0.77
A	1444
L	2,000
P	78

NO.	M-1
V	9,000
C	WHEAT
Qp	0.15
Qu	0.104
A	200
L	—
P	4.2

NO.	M-2
V	500,000
C	WHEAT
Qp	0.072
Qu	0.051
A	65
L	—
P	10

NO.	Kc-1
V	40,000
C	WHEAT
Qp	1.811
Qu	1.280
A	2,415
L	—
P	127

NO.	Kc-2
V	100,000
C	WHEAT
Qp	0.863
Qu	0.610
A	1,150
L	—
P	60

MARK		
V	STORAGE CAPACITY	(m³)
C	CROP	
Qp	PEAK WATER REQUIREMENT	(m³/s)
Qu	UNIT WATER REQUIREMENT	(m³/s)
A	IRRIGATED AREA	(ha)
L	MAIN CANAL LENGTH	(m)
P	NECESARY ELECTRIC POWER	(kw)

図14. 1 − 1　かんがい計画図

THE ISLAMIC REPUBLIC OF PAKISTAN		
MASTER PLAN STUDY FOR INTEGRATED RURAL DEVELOPMENT PROJECT		
Fig 14.1-1		
IRRIGATION SCHEME		
DATE	DECEMBER 1985	SHEET NO.
JAPAN INTERNATIONAL COOPERATION AGENCY		

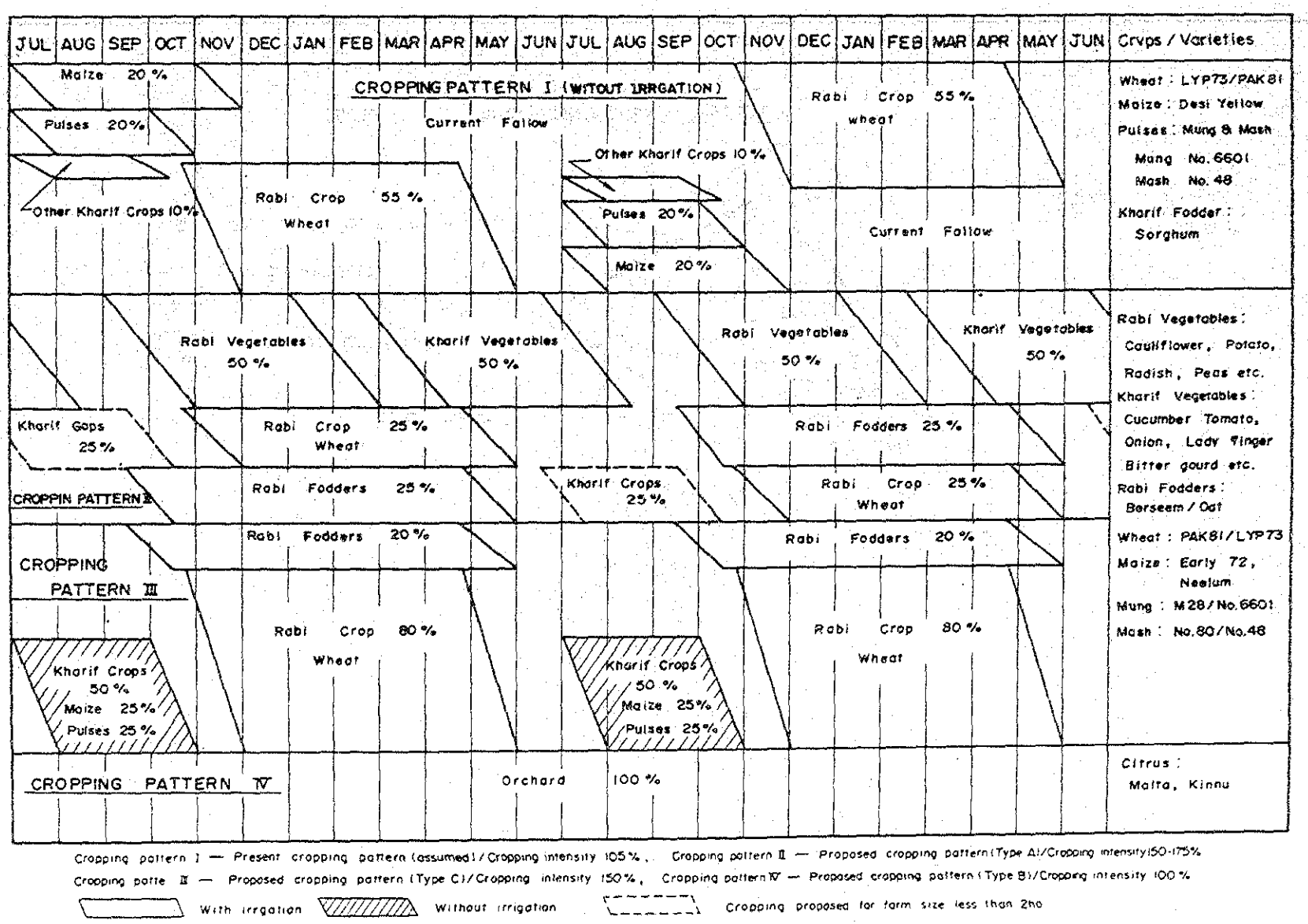

JUL AUG SEP OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC JAN FEB MAR APR MAY JUN
Crvps / Varieties
CROPPING PATTERN I (WITOUT IRRGATION)
Maize 20 %
Pulses 20%
Other Kharif Crops 10%
Current Fallow
Rabi Crop 55 %
Wheat
Other Kharif Crops 10 %
Pulses 20%
Maize 20 %
Rabi Crop 55 %
wheat
Current Fallow
Wheat : LYP73/PAK81
Maize : Desi Yellow
Pulses : Mung & Mash
Mung No. 6601
Mash No. 48
Kharif Fodder : Sorghum
Rabi Vegetables 50 %
Kharif Vegetables 50 %
Rabi Vegetables 50 %
Kharif Vegetables 50 %
Rabi Vegetables : Cauliflower, Potato, Radish, Peas etc.
Kharif Vegetables : Cucumber Tomato, Onion, Lady Finger Bitter gourd etc.
Kharif Gaps 25 %
Rabi Crop 25 %
Wheat
Rabi Fodders 25 %
CROPPIN PATTERN II
Rabi Fodders 25 %
Kharif Crops 25 %
Rabi Crop 25 %
Wheat
Rabi Fodders : Berseem / Oat
Rabi Fodders 20 %
Rabi Fodders 20 %
CROPPING PATTERN III
Rabi Crop 80 %
Wheat
Rabi Crop 80 %
Wheat
Kharif Crops 50 %
Maize 25 %
Pulses 25 %
Kharif Crops 50 %
Maize 25 %
Pulses 25 %
Wheat : PAK81/LYP73
Maize : Early 72, Neelum
Mung : M28/No.6601
Mash : No.80/No.48
CROPPING PATTERN IV
Orchard 100 %
Citrus : Malta, Kinnu
Cropping pattern I — Present cropping pattern (assumed) / Cropping intensity 105 %, Cropping pattern II — Proposed cropping pattern (Type A) / Cropping intensity 150-175%
Cropping patte III — Proposed cropping pattern (Type C) / Cropping intensity 150 %, Cropping pattern IV — Proposed cropping pattern (Type B) / Cropping intensity 100 %
With irrgation
Without irrigation
Cropping proposed for farm size less than 2ha

図14. 1 －2　作付体系

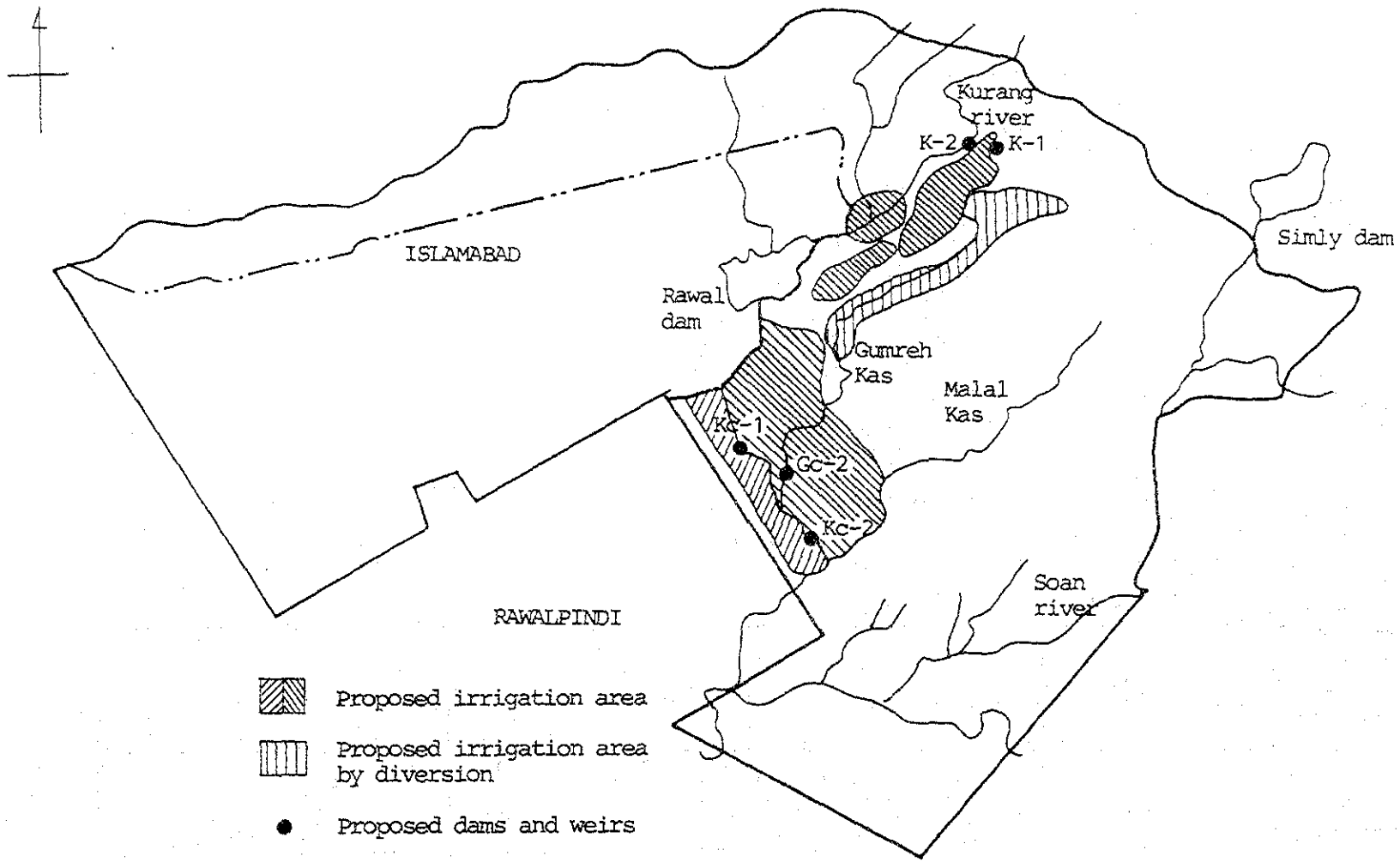


図14. 1 － 3　Kurang川水系かんがい計画位置図

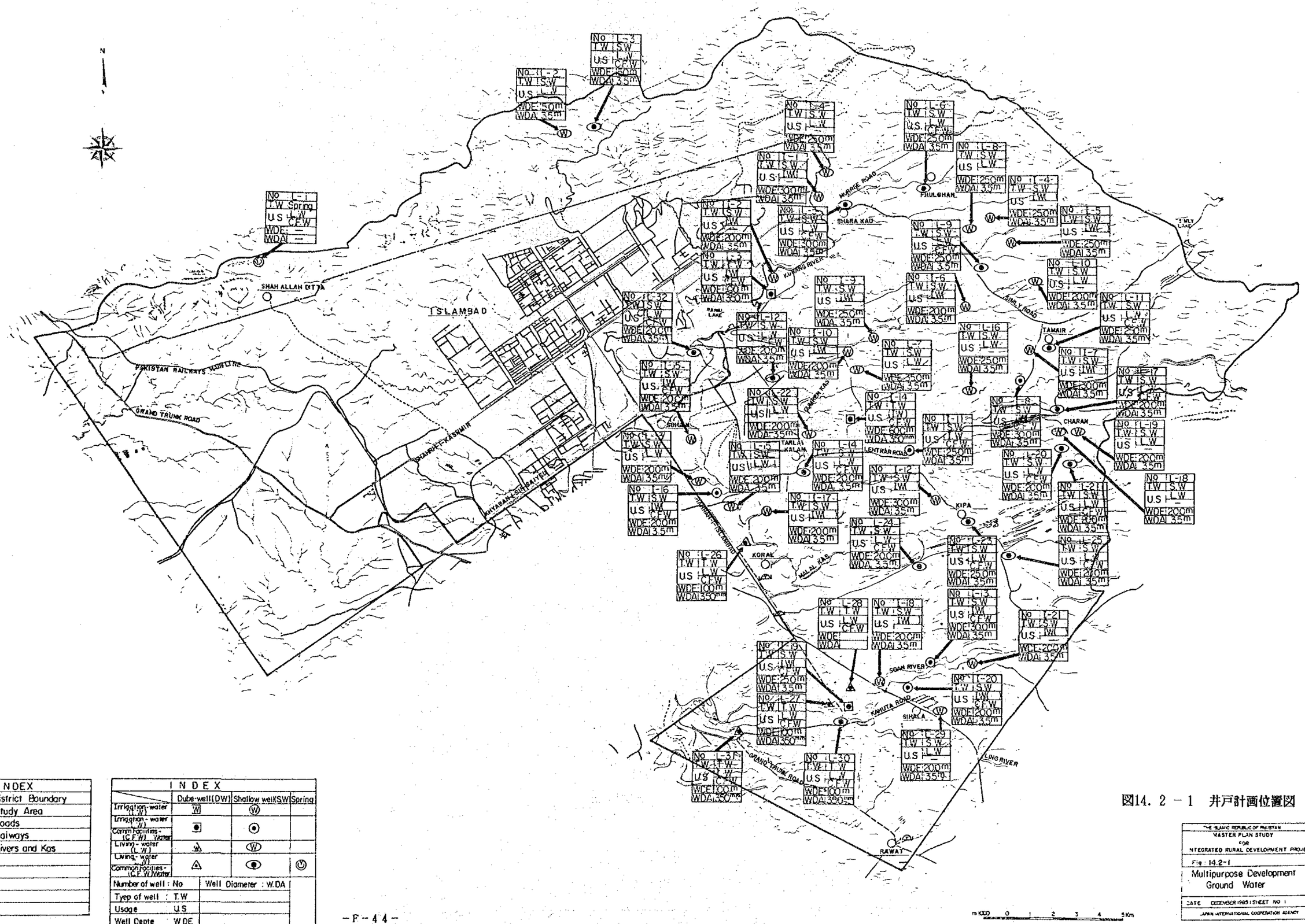


図14. 2 − 1　井戸計画位置図

INDEX
District Boundary
Study Area
Roads
Railways
Rivers and Kas

INDEX			
	Dube-well(DW)	Shallow well(SW)	Spring
Irrigation-water (I.W)	W	W	
Irrigation-water (I.W)			
Comm.facilities-(C.F.W) Water			
Living-water (L.W)		W	
Living-water (L.W)			
Comm.facilities-(C.F.W) Water			U
Number of well : No	Well Diameter : W.DA		
Type of well : T.W			
Usage U.S			
Well Depte W.DE			

THE ISLAMIC REPUBLIC OF PAKISTAN
MASTER PLAN STUDY
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Fig : 14.2-1

Multipurpose Development
Ground Water

DATE DECEMBER 1985 I SHEET NO 1

JAPAN INTERNATIONAL COOPERATION AGENCY

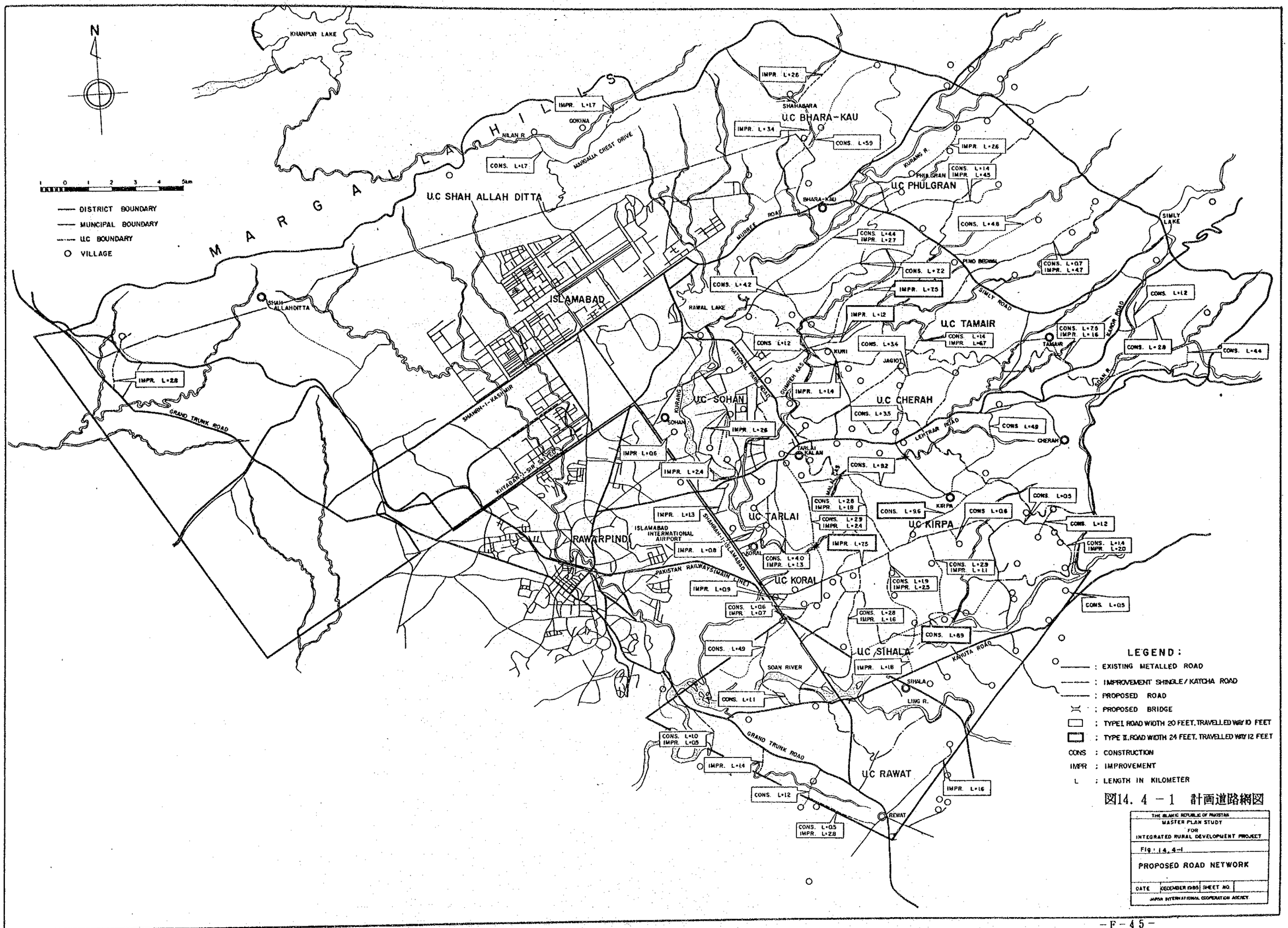
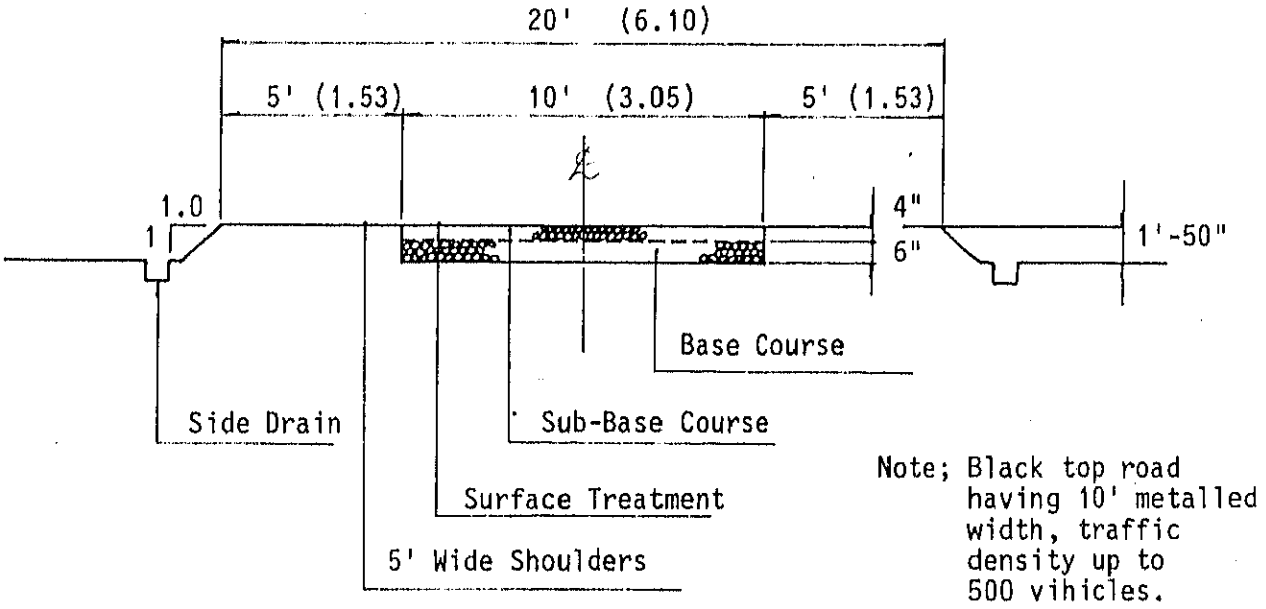
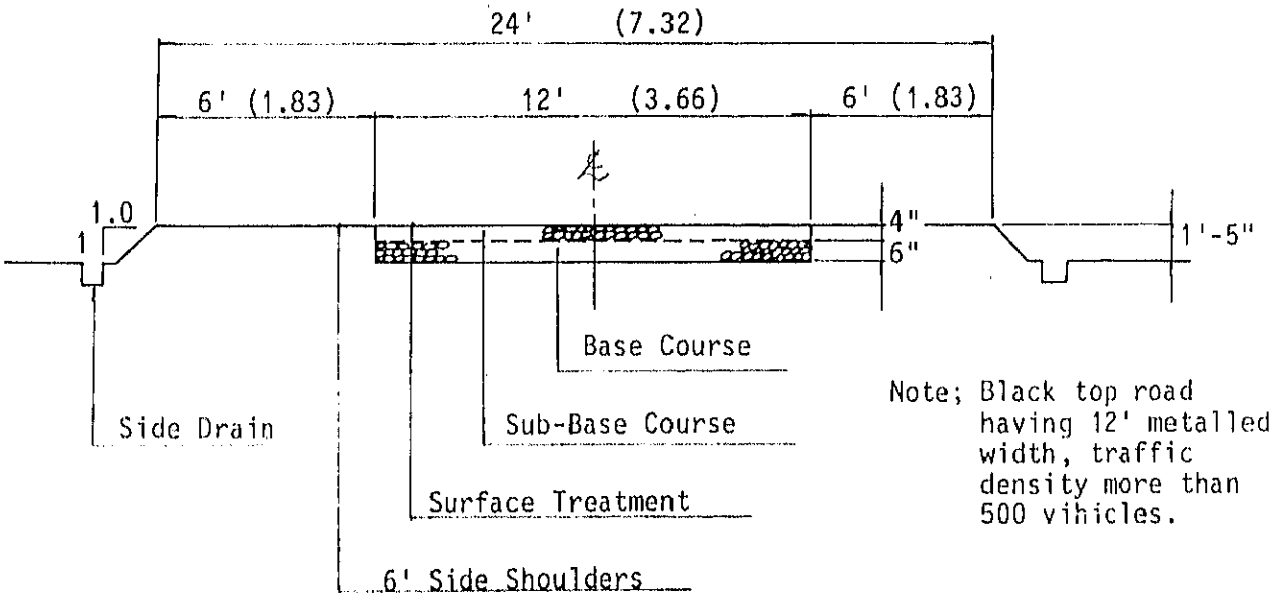


図14. 4 －1　計画道路網図

TYPE I

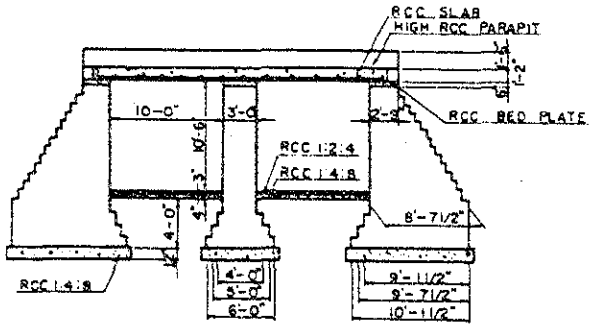


TYPE II

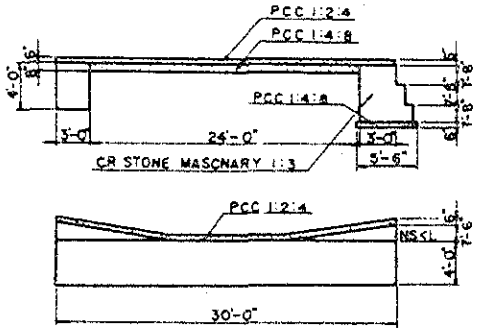


Remarks : ( ) in meter

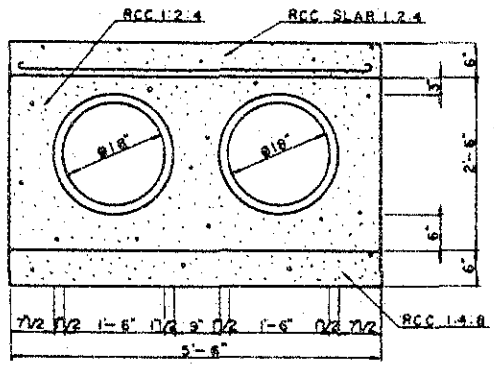
図14. 4 － 2　農村連絡道路計画断面図



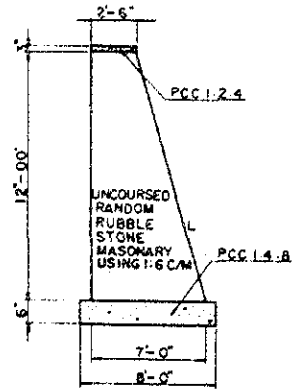
CROSS SECTION OF 10' SPAN CULVERT



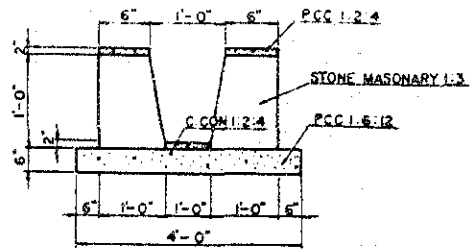
CROSS SECTION OF CAUSEWAY



CROSS SECTION OF PIPE CULVERT



CROSS SECTION
OF 11' HIGH RETAINING WALL



STANDARD DESIGIN OF V SHAPE DRAIN

図14.4-3 道路附帯構造物標準断面図

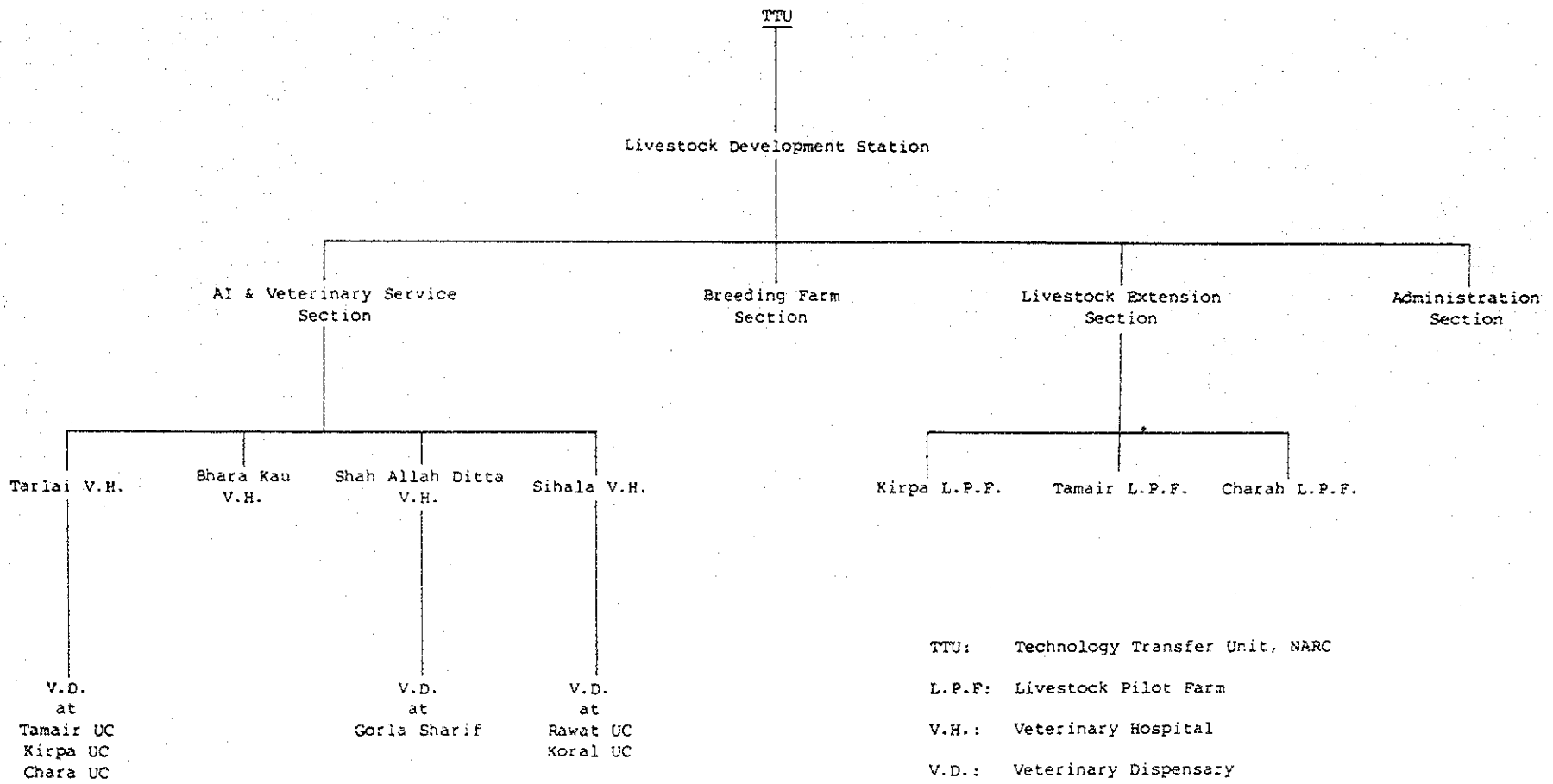
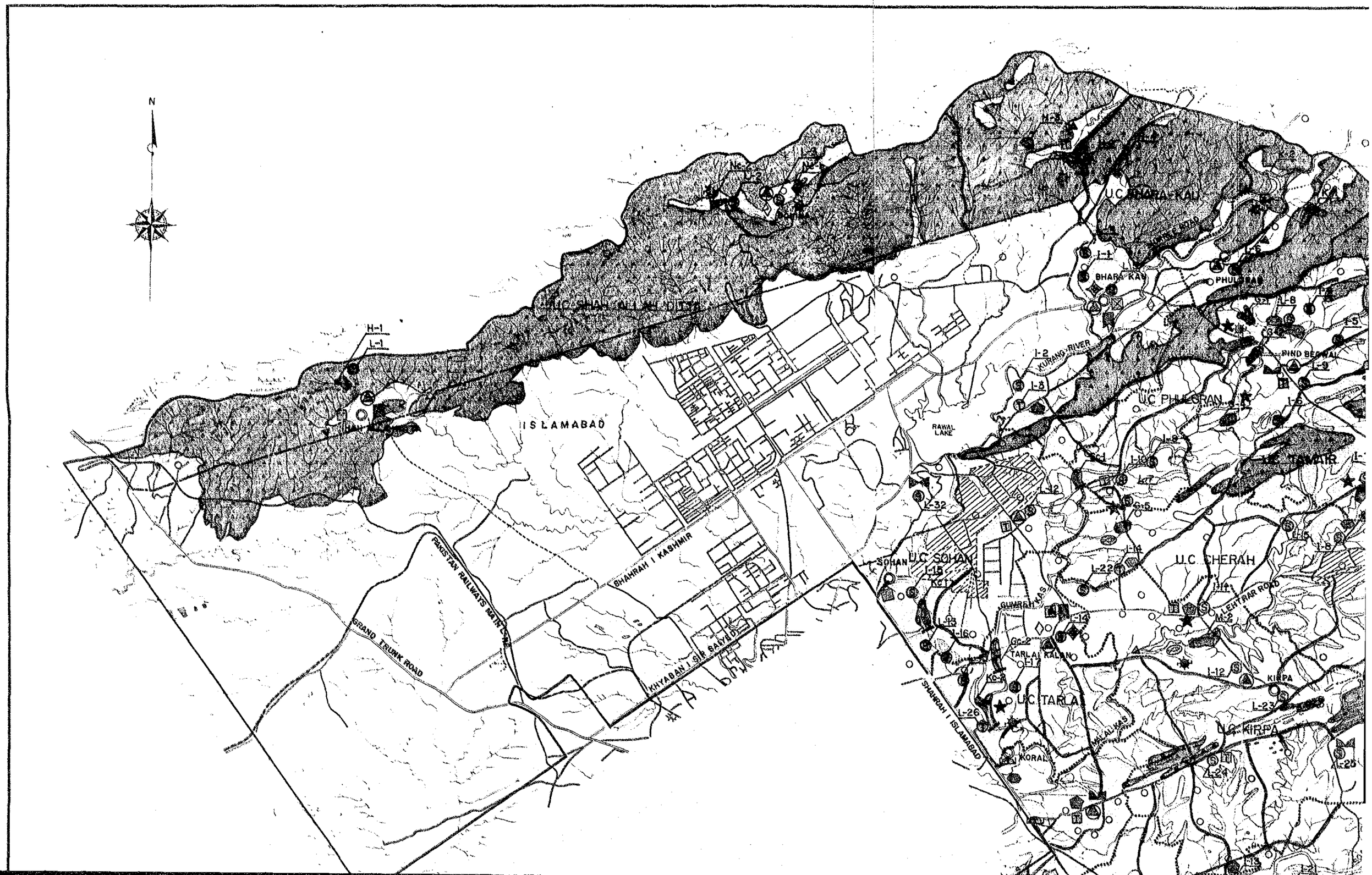
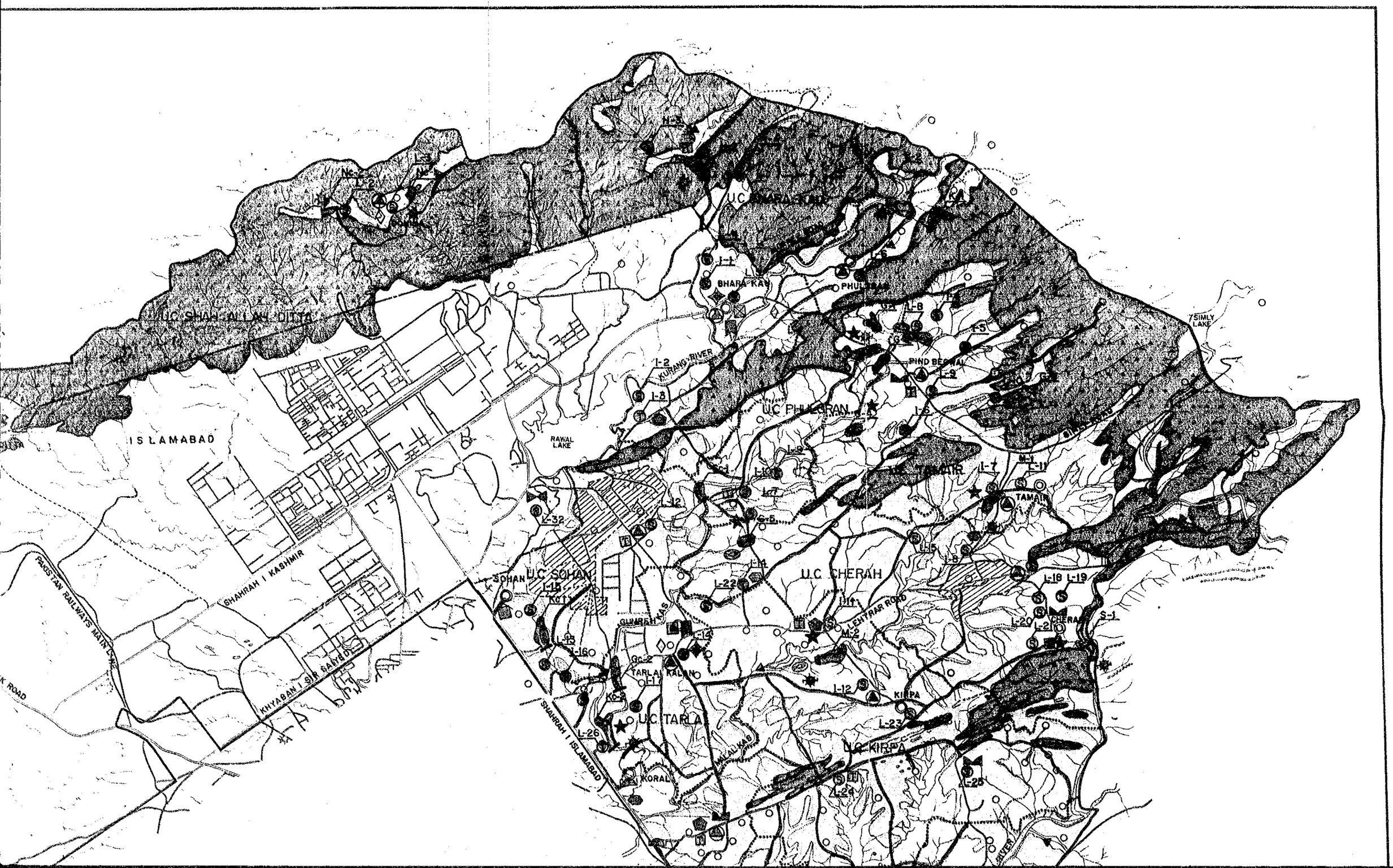
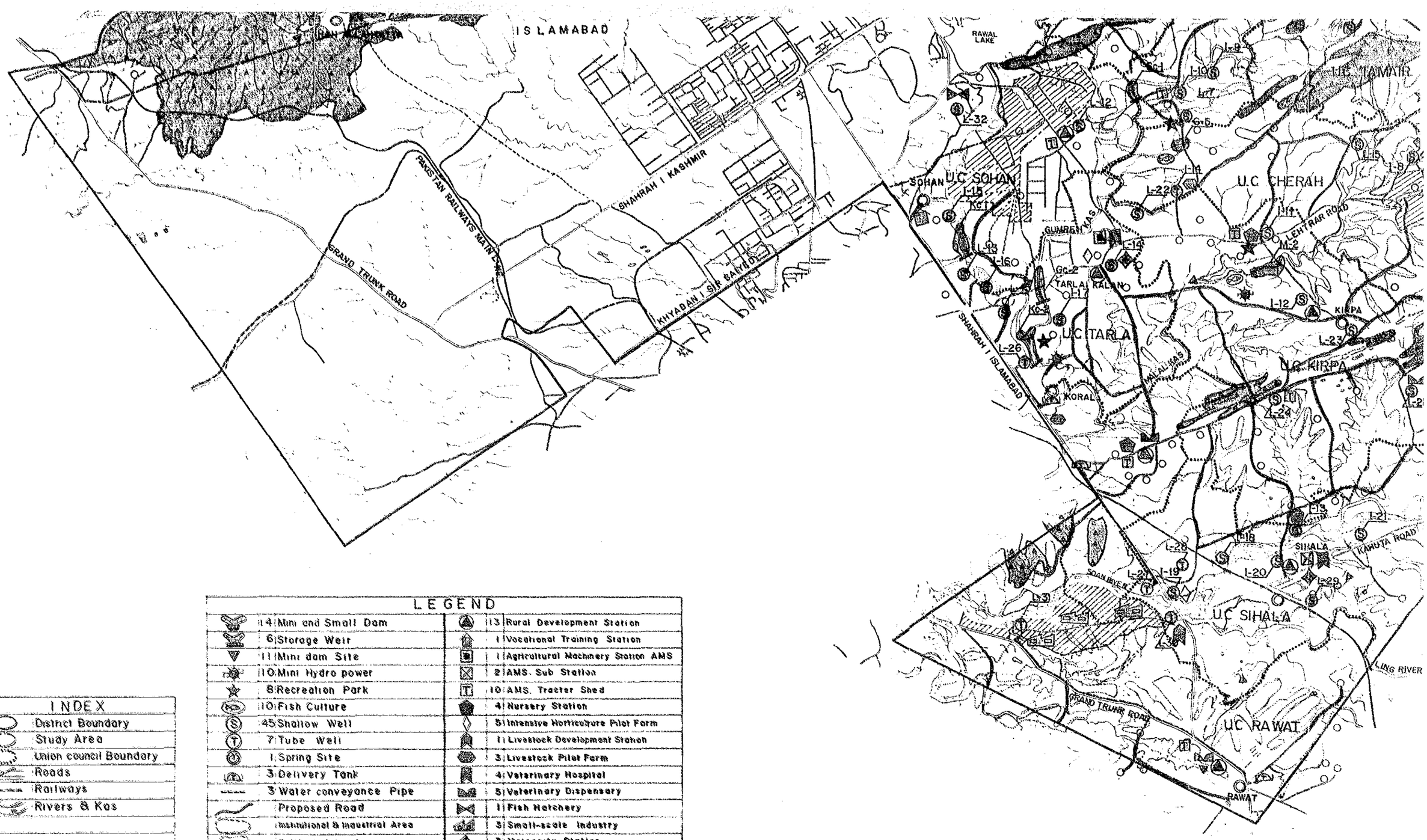


図14. 6 －1　畜産開発ステーション組織図


N
U.C. SHAH ALLAH DITTA
ISLAMABAD
U.C. BHARA KAU
BHARA KAU
PHULGRAN
PIND BEGWAL
U.C. PHULGRAN
RAWAL LAKE
U.C. TAMAIR
U.C. SOHAN
SOHAN
U.C. CHERAH
LEHTRAR ROAD
GUNRAH KAS
TARLAI KALAN
U.C. TARLA
KIRPA
U.C. KIRPA
KORAL
KURANG RIVER
SHAHRAH I KASHMIR
KHYABAN I SIR SAYYID
PAKISTAN RAILWAYS MAIN LINE
GRAND TRUNK ROAD
SHAHRAH I ISLAMABAD
H-1
L-1
H-2
L-2
I-1
I-2
I-3
I-5
I-6
I-8
I-9
I-10
I-12
I-13
I-14
I-15
I-16
I-17
I-22
I-23
I-24
I-25
I-26
I-32
M-2
GC-2
KS-2


U.C. SHAH ALLAH DITTA
ISLAMABAD
SHAHRAH I KASHMIR
PAKISTAN RAILWAYS MAIN LINE
KHYABAN I SIR SAYYID
SHAHRAH I ISLAMABAD
SOHAN
U.C. SOHAN
GUHARAH KAS
TARLAI KALAN
U.C. TARLA
KORAL
MALAL KAS
U.C. KIRPA
KIRPA
U.C. CHERAH
CHERAH
LEHTRAR ROAD
U.C. TAMAIR
TAMAIR
U.C. PHULGRAN
PIND BEGWAL
KURANG RIVER
RAWAL LAKE
SIMLY LAKE
SHARA KAS
PHUL KAS
U.C. SHARA KAS



LEGEND

4	Mini and Small Dam	13	Rural Development Station
6	Storage Weir	1	Vocational Training Station
11	Mini dam Site	1	Agricultural Machinery Station AMS
10	Mini Hydro power	2	AMS. Sub Station
8	Recreation Park	10	AMS. Tractor Shed
10	Fish Culture	4	Nursery Station
45	Shallow Well	5	Intensive Horticulture Pilot Farm
7	Tube Well	1	Livestock Development Station
1	Spring Site	3	Livestock Pilot Farm
3	Delivery Tank	4	Veterinary Hospital
3	Water conveyance Pipe	5	Veterinary Dispensary
	Proposed Road	1	Fish Hatchery
	Institutional & Industrial Area	3	Small-scale Industry
	Cultivated Land	3	Maternity Station
	Mountain & Hilly		

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- District Boundary
- Study Area
- Union council Boundary
- Roads
- Railways
- Rivers & Kas

LEGEND

13	Rural Development Station
1	Vocational Training Station
1	Agricultural Machinery Station AMS
2	AMS. Sub Station
10	AMS. Tracter Shed
4	Nursery Station
5	Intensive Horticulture Pilot Farm
1	Livestock Development Station
3	Livestock Pilot Farm
4	Veterinary Hospital
5	Veterinary Dispensary
1	Fish Hatchery
3	Small-scale Industry
3	Maternity Station

SCALE 1 : 100,000

m 1000 0 1 2 3 4 5 Km

THE ISLAMIC REPUBLIC OF PAKISTAN
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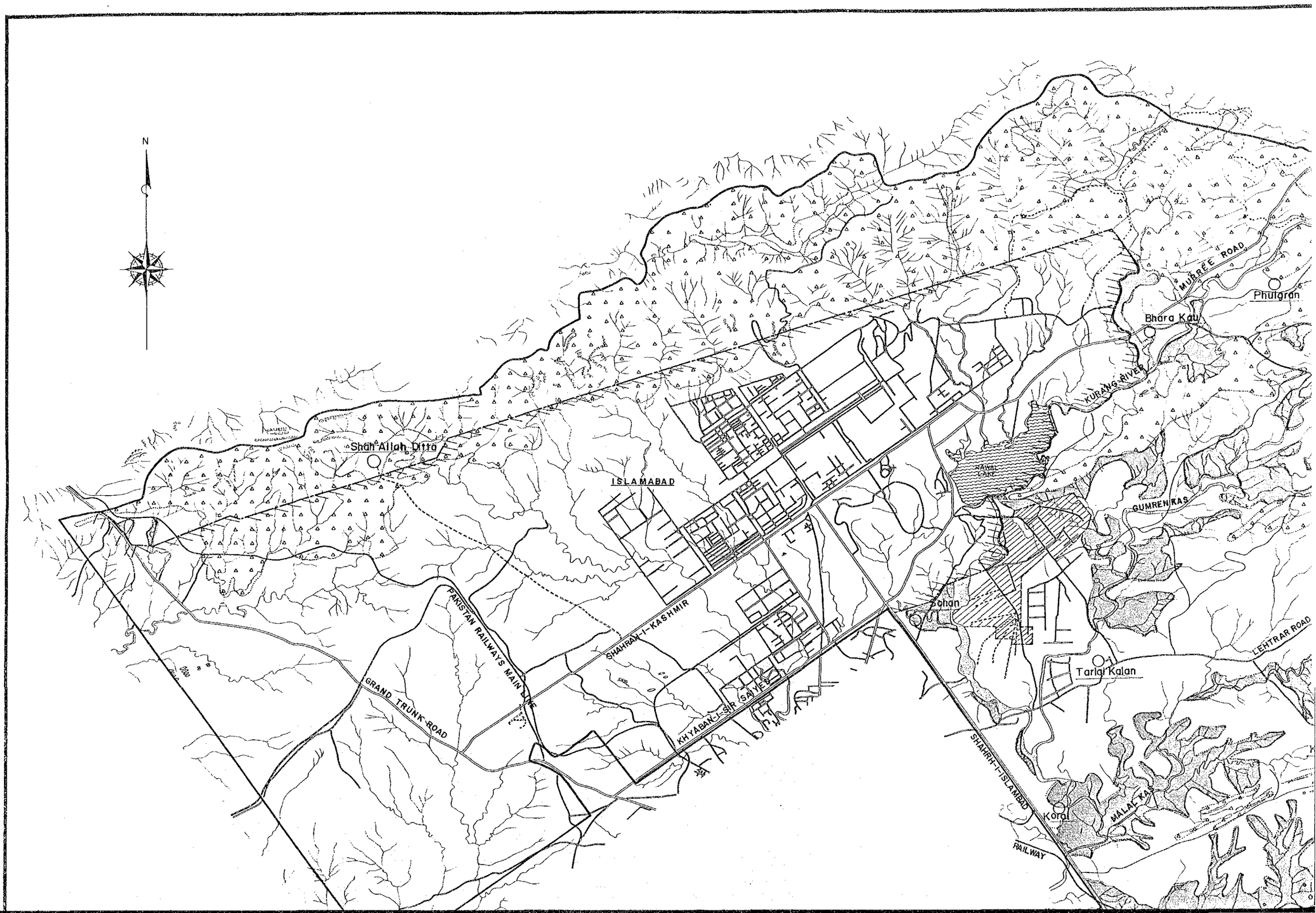
INTEGRATED RURAL DEVELOPMENT PROJECT

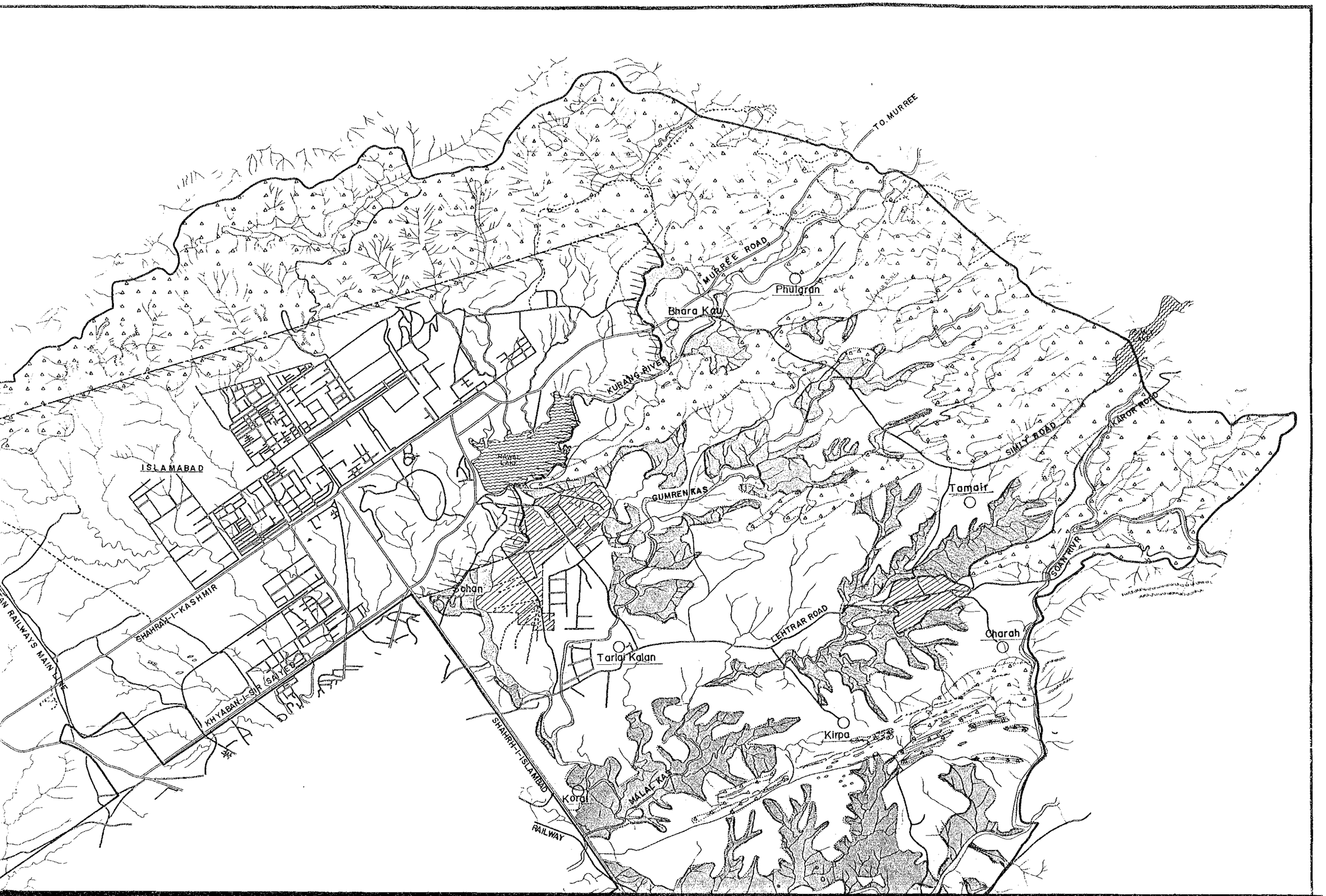
Fig

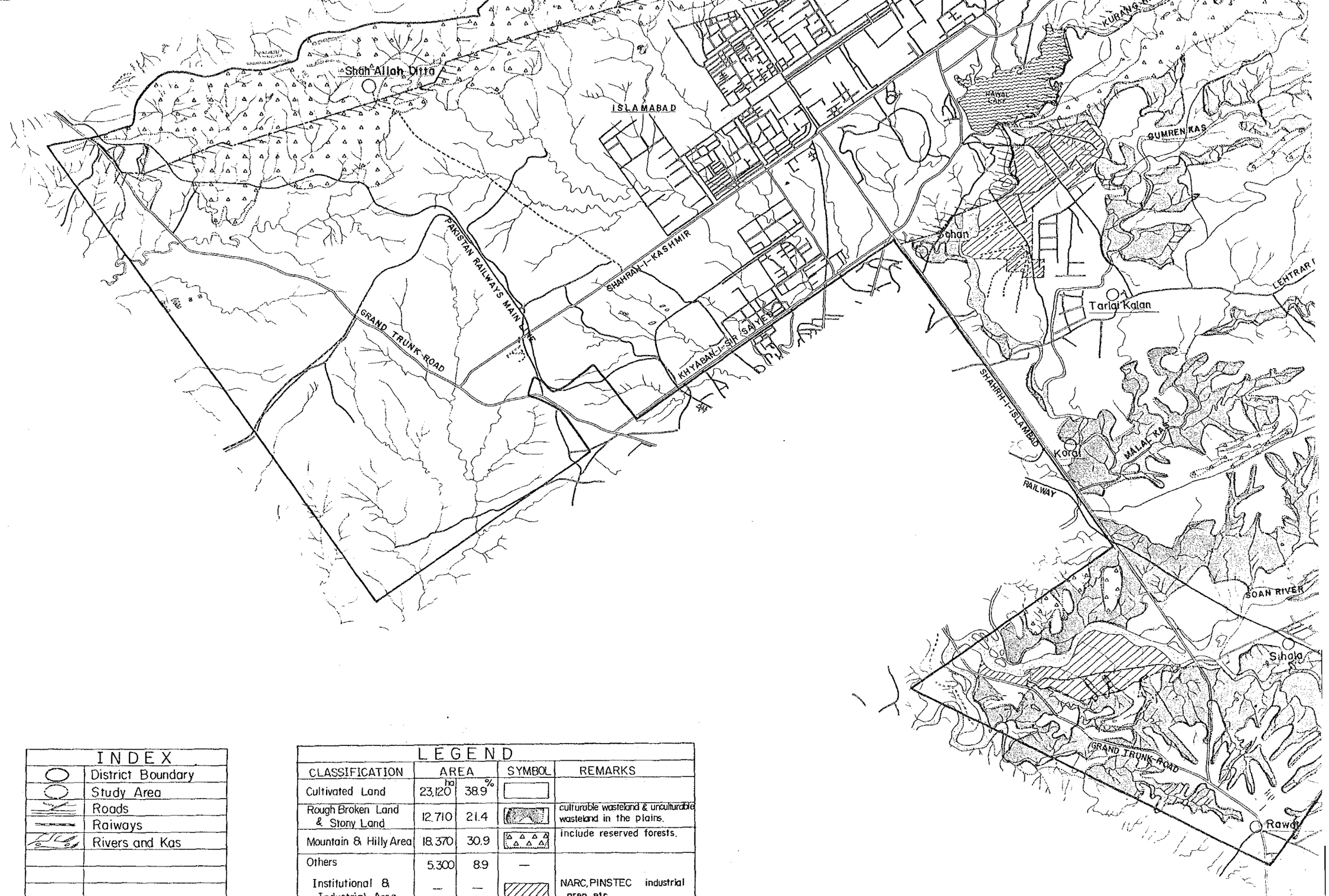
LOCATION MAP OF
PROPOSED FACILITIES

DATE DECEMBER 1985 SHEET NO.

JAPAN INTERNATIONAL COOPERATION AGENCY


N
Shah Allah Ditta
ISLAMABAD
MURREE ROAD
Phulgran
Bhara Kau
KURANG RIVER
NAVAL LAKE
GUMREN KAS
Sohan
LEHTRAR ROAD
Tarlai Kalan
SHAHRAH-I-KASHMIR
PAKISTAN RAILWAYS MAIN LINE
GRAND TRUNK ROAD
KHYABAN-I-SIR SAYYID
SHAHRAH-I-ISLAMBAD
RAILWAY
Koral
MALAL KAS


TO MURREE
MURREE ROAD
Phulgran
Bhara Kau
KURANG RIVER
KAROR ROAD
SIMLY ROAD
ISLAMABAD
GUMREN KAS
Tamair
SOAN RIVER
SHAHRAH-I-KASHMIR
LEHTRAR ROAD
Charah
Tarlai Kalan
KHYABAN-I-SIR SAYYID
SHAHRAH-I-ISLAMBAD
Kirpa
MALAL KAS
Koral
RAILWAY



INDEX	
	District Boundary
	Study Area
	Roads
	Raiways
	Rivers and Kas

LEGEND				
CLASSIFICATION	AREA		SYMBOL	REMARKS
	ha	%		
Cultivated Land	23,120	38.9		
Rough Broken Land & Stony Land	12,710	21.4		culturable wasteland & unculturable wasteland in the plains.
Mountain & Hilly Area	18,370	30.9		include reserved forests.
Others	5,300	8.9	—	
Institutional & Industrial Area	—	—		NARC, PINSTEC industrial area etc.
Right-of-way	—	—	—	rivers, roads, villages etc.
Total	59,500	100.0		

SYMBOL	REMARKS
	culturable wasteland & unculturable wasteland in the plains.
	include reserved forests.
—	
	NARC, PINSTEC industrial area etc.
—	rivers, roads, villages etc.

SCALE 1 : 100,000

m 1000 0 1 2 3 4 5Km

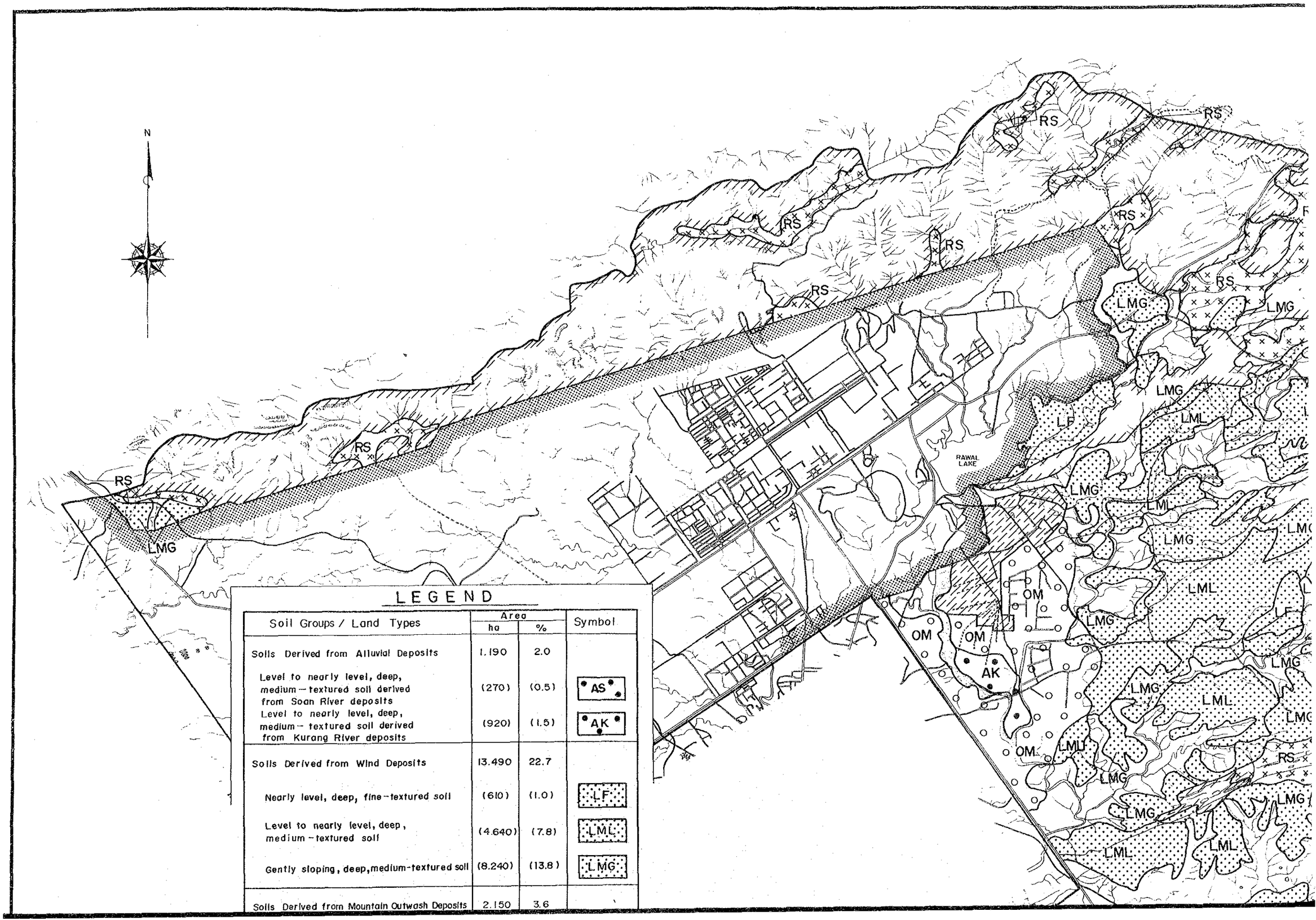
THE ISLAMIC REPUBLIC OF PAKISTAN
MASTER PLAN STUDY
FOR
INTEGRATED RURAL DEVELOPMENT PROJECT

Fig : 4.4-1

Present Land Use

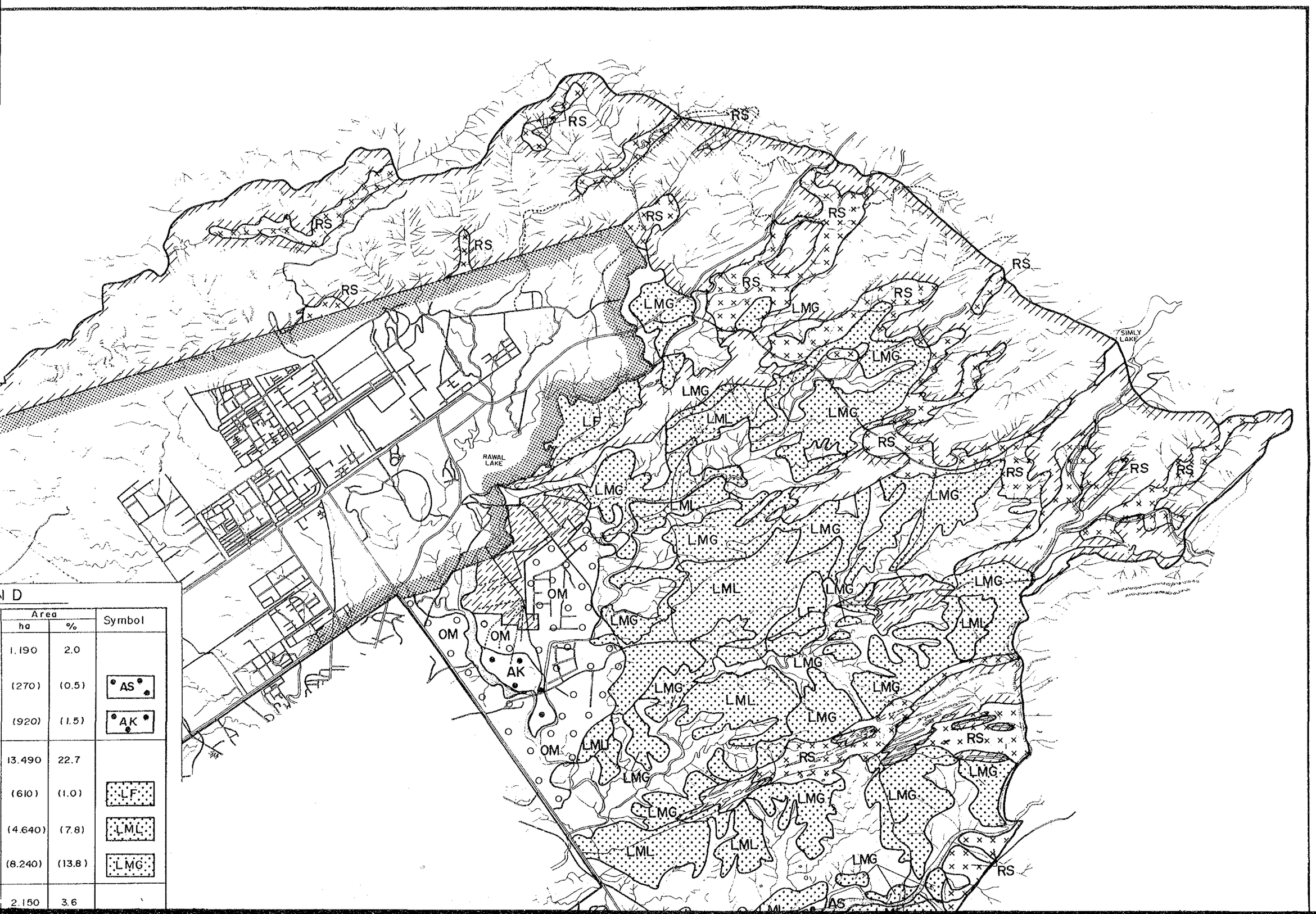
DATE DECEMBER 1985 SHEET NO.

JAPAN INTERNATIONAL COOPERATION AGENCY



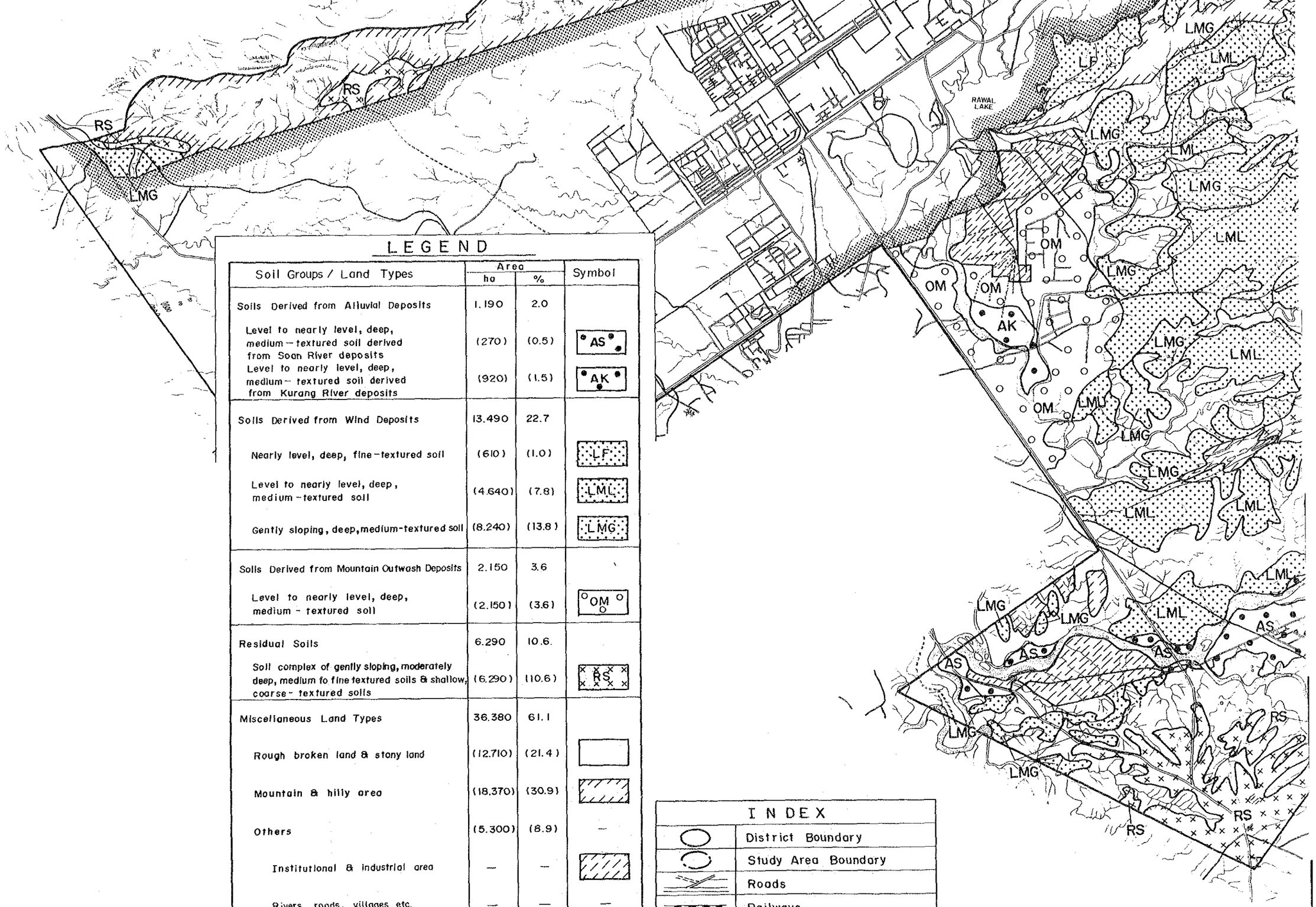
LEGEND

Soil Groups / Land Types	Area ha	Area %	Symbol
Soils Derived from Alluvial Deposits	1.190	2.0	
Level to nearly level, deep, medium-textured soil derived from Soan River deposits	(270)	(0.5)	AS
Level to nearly level, deep, medium-textured soil derived from Kurang River deposits	(920)	(1.5)	AK
Soils Derived from Wind Deposits	13.490	22.7	
Nearly level, deep, fine-textured soil	(610)	(1.0)	LF
Level to nearly level, deep, medium-textured soil	(4.640)	(7.8)	LML
Gently sloping, deep, medium-textured soil	(8.240)	(13.8)	LMG
Soils Derived from Mountain Outwash Deposits	2.150	3.6	



N D

Area ha	Area %	Symbol
1.190	2.0	
(270)	(0.5)	AS
(920)	(1.5)	AK
13.490	22.7	
(610)	(1.0)	LF
(4.640)	(7.8)	LML
(8.240)	(13.8)	LMG
2.150	3.6	

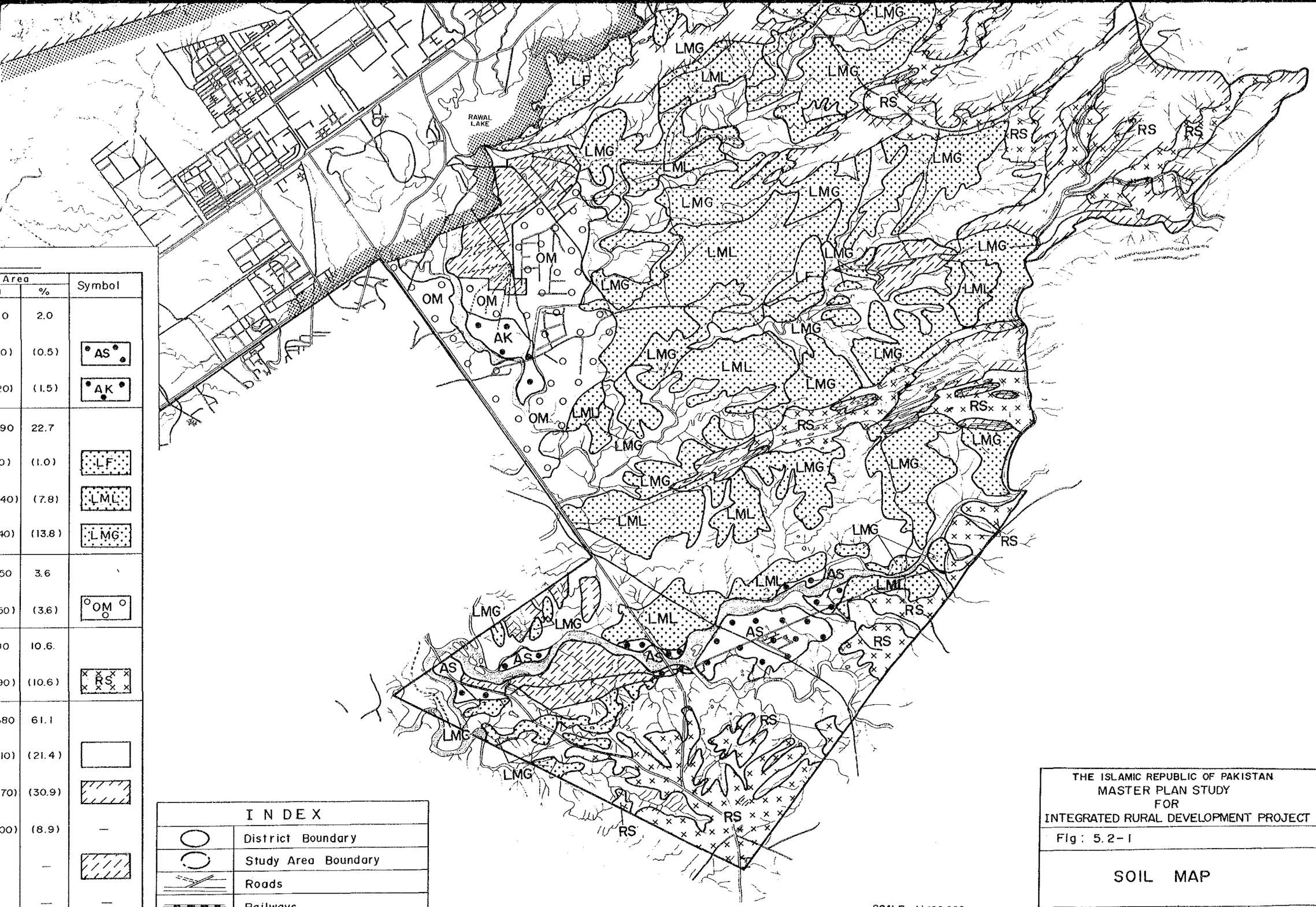


LEGEND

Soil Groups / Land Types	Area ha	Area %	Symbol
Soils Derived from Alluvial Deposits	1.190	2.0	
Level to nearly level, deep, medium-textured soil derived from Soan River deposits	(270)	(0.5)	AS
Level to nearly level, deep, medium-textured soil derived from Kurang River deposits	(920)	(1.5)	AK
Soils Derived from Wind Deposits	13.490	22.7	
Nearly level, deep, fine-textured soil	(610)	(1.0)	LF
Level to nearly level, deep, medium-textured soil	(4.640)	(7.8)	LML
Gently sloping, deep, medium-textured soil	(8.240)	(13.8)	LMG
Soils Derived from Mountain Outwash Deposits	2.150	3.6	
Level to nearly level, deep, medium-textured soil	(2.150)	(3.6)	OM
Residual Soils	6.290	10.6.	
Soil complex of gently sloping, moderately deep, medium to fine textured soils & shallow, coarse-textured soils	(6.290)	(10.6)	RS
Miscellaneous Land Types	36.380	61.1	
Rough broken land & stony land	(12.710)	(21.4)	
Mountain & hilly area	(18.370)	(30.9)	
Others	(5.300)	(8.9)	—
Institutional & industrial area	—	—	
Rivers, roads, villages etc.	—	—	—
Study Area	59.500	100.0	

INDEX

	District Boundary
	Study Area Boundary
	Roads
	Railways
	Rivers or Kas



Area		Symbol
0	2.0	
0)	(0.5)	AS
20)	(1.5)	AK
90	22.7	
0)	(1.0)	LF
40)	(7.8)	LML
40)	(13.8)	LMG
50	3.6	
50)	(3.6)	OM
0	10.6.	
90)	(10.6)	RS
80	61.1	
10)	(21.4)	
70)	(30.9)	
00)	(8.9)	—
	—	
	—	—
00	100.0	

INDEX	
	District Boundary
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SCALE 1: 100,000

m 1000 500 0 1 2 3 4 5 Km

THE ISLAMIC REPUBLIC OF PAKISTAN
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Fig: 5.2-1

SOIL MAP

DATE	DECEMBER 1985	SHEET. No.	

JAPAN INTERNATIONAL COOPERATION AGENCY