

YEMEN ARAB REPUBLIC

MINISTRY OF PUBLIC WORKS

THE RURAL WATER SUPPLY PROJECT PART II

FINAL DRAWINGS

May 1980

JAPAN INTERNATIONAL COOPERATION AGENCY

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May 1980

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




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DRAWING LIST

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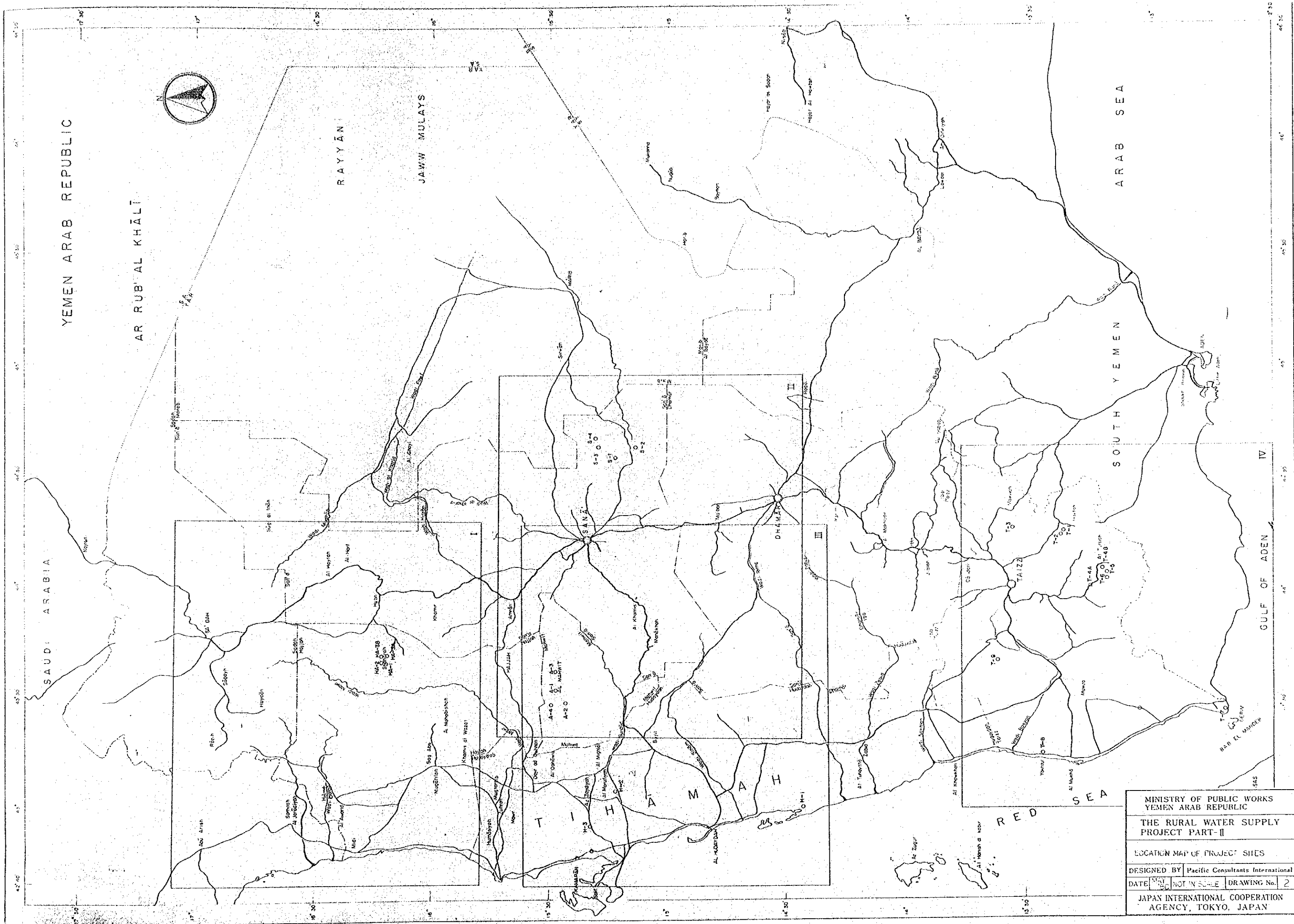
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	MACHINERY HOUSE
	GENERATOR
	PROJECT WELL
	WATER TANK
	WATER SUPPLY PIPE
	GATE VALVE
	HOUSES

LOCATION			
GOVERNORATE	D I S T R I C T	S I T E N O	S U R V E Y S I T E
HAJJA	AL-AHNOON	HA-1	AL-MADAN & 8 VILLAGES
		HA-2	ELMAN & 4 OTHER VILLAGES
	SIHARA	HA-3-A	SIHARA
		HA-3-B	THARI
	HARAD	HA-4	HARAD
AL-MAHWEET	AL-MAHWEET	A-1	AL-MAHWEET CITY
		A-2	HUFASH
		A-3	AL-RAJAM
		A-4	AL-KHABET
SANA'A	AL-SUHMAN	S-1	BANY SHAKER & BAIT ABO SABA'A
		S-2	BAIT ABO HASHEM
	BANISHADAD	S-3	AL-SHEAB AL-ASWAD
		S-4	BANY FARHAN & BANY SARIA'A
HODEIDAH	DURAIHMI	H-1	GHULAYFAGAH
	HODEIDAH	H-2	AL-DAHI
	ZUHRAH	H-3	AL-MOUNIRAH (TO SUPPLY EBN-ABBAS & AL-HARUNIA)
TAIZ	AL-SULO	T-1	AL-MASHJAB
		T-2	AL-MANARA & AL-DUKUM
	KADIER AL-BURAIHI	T-3	AL-MAYDAN, AL-JUBAIL SHEIBD, HAMUD
		T-4-A	HADAD, QAHA
	AL-TURBA	T-4-B	AL-KUDHA, AL-HAGL
		T-5	SHOHAT, AL-KADASH
		T-6	AL-ZAKIRA
	BAB-AL-MANDAB	T-7	BAB-AL-MANDAB
	MOKAH	T-8	YAHKHTOL
MAKBANA	T-9	MAKBANA	

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LEGEND & LOCATION			
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YEMEN ARAB REPUBLIC

AR RUB' AL KHALI

RAYYAN

JAWW MULAYS

ARAB SEA

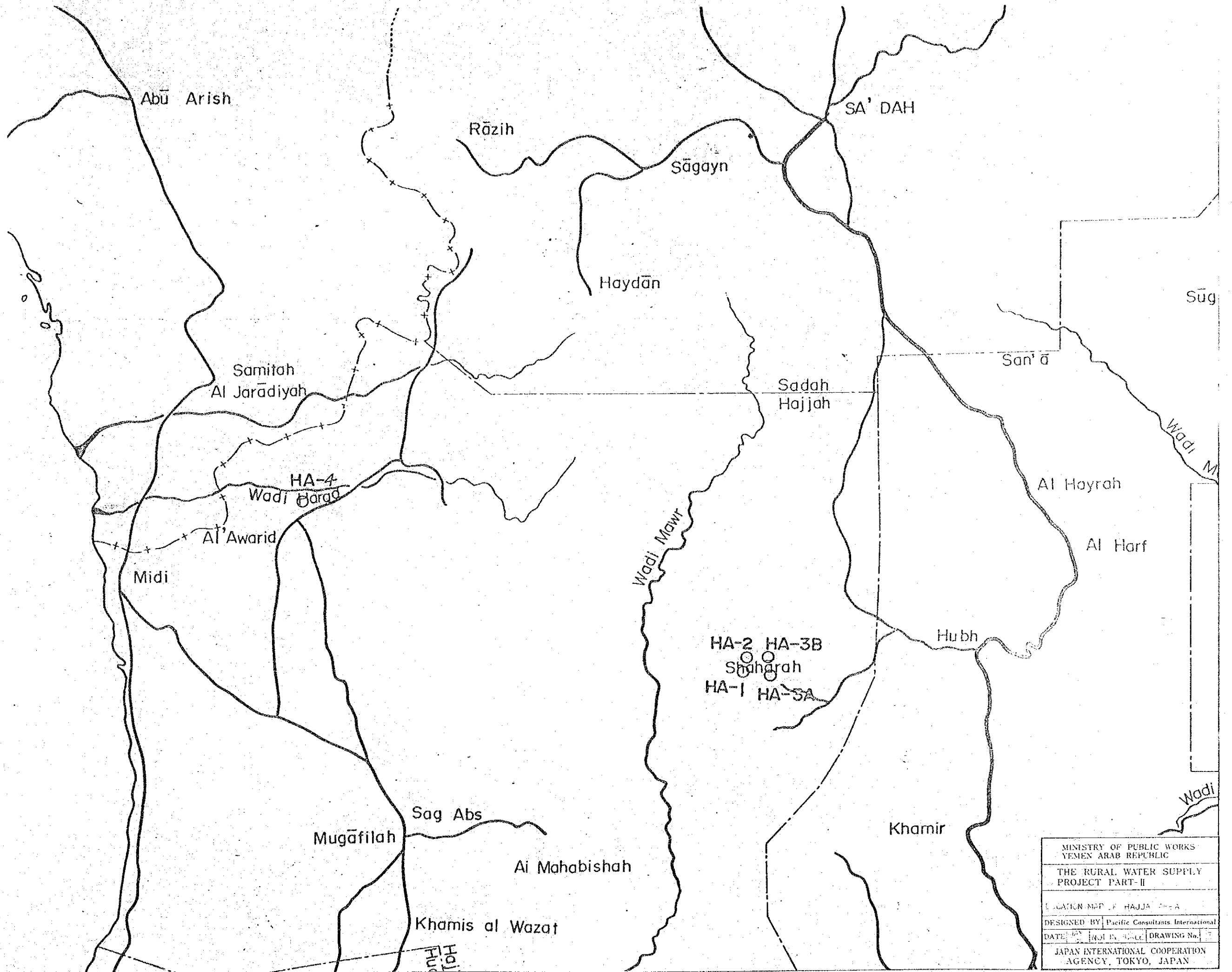
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SAUDI ARABIA

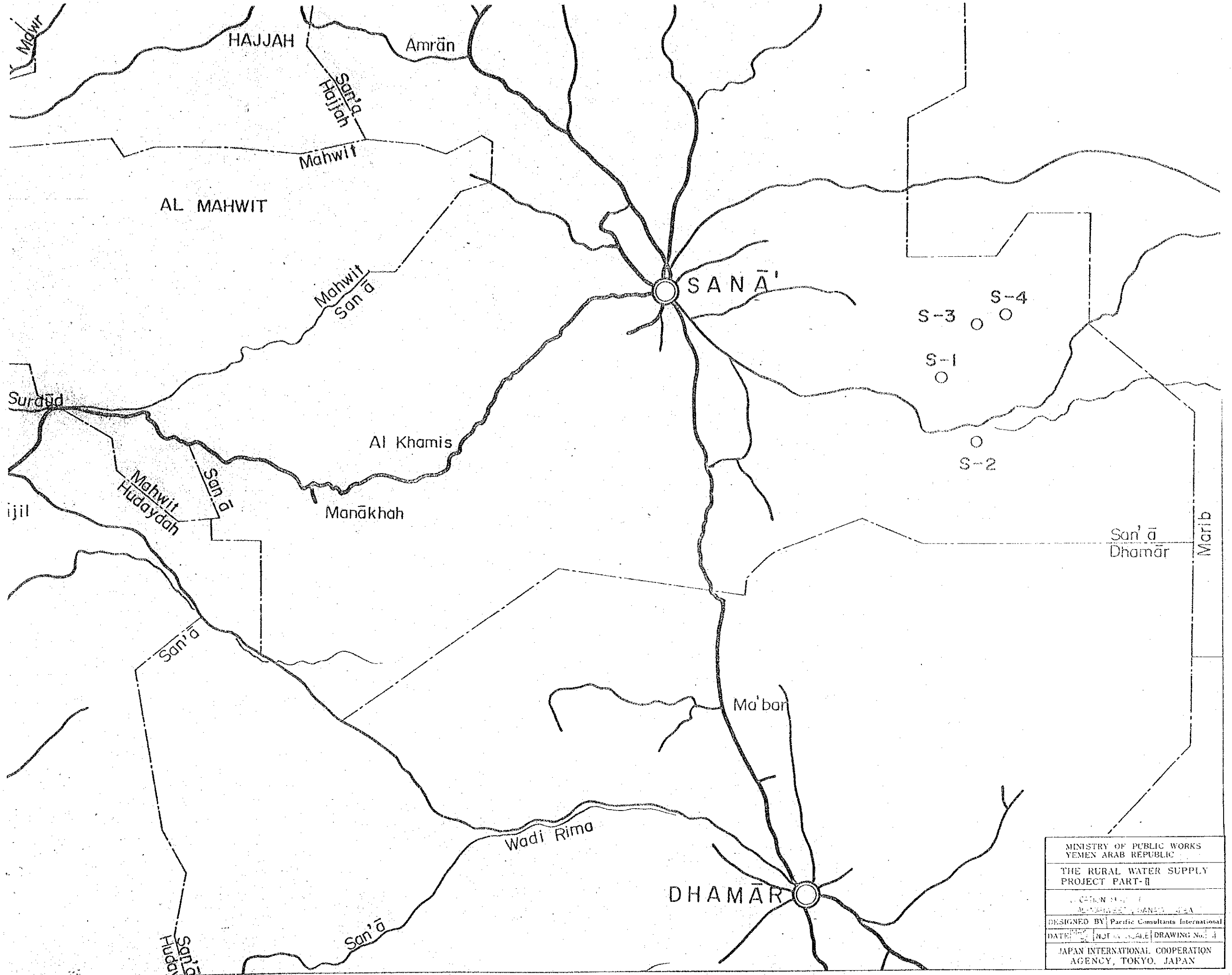
GULF OF ADEN

RED SEA

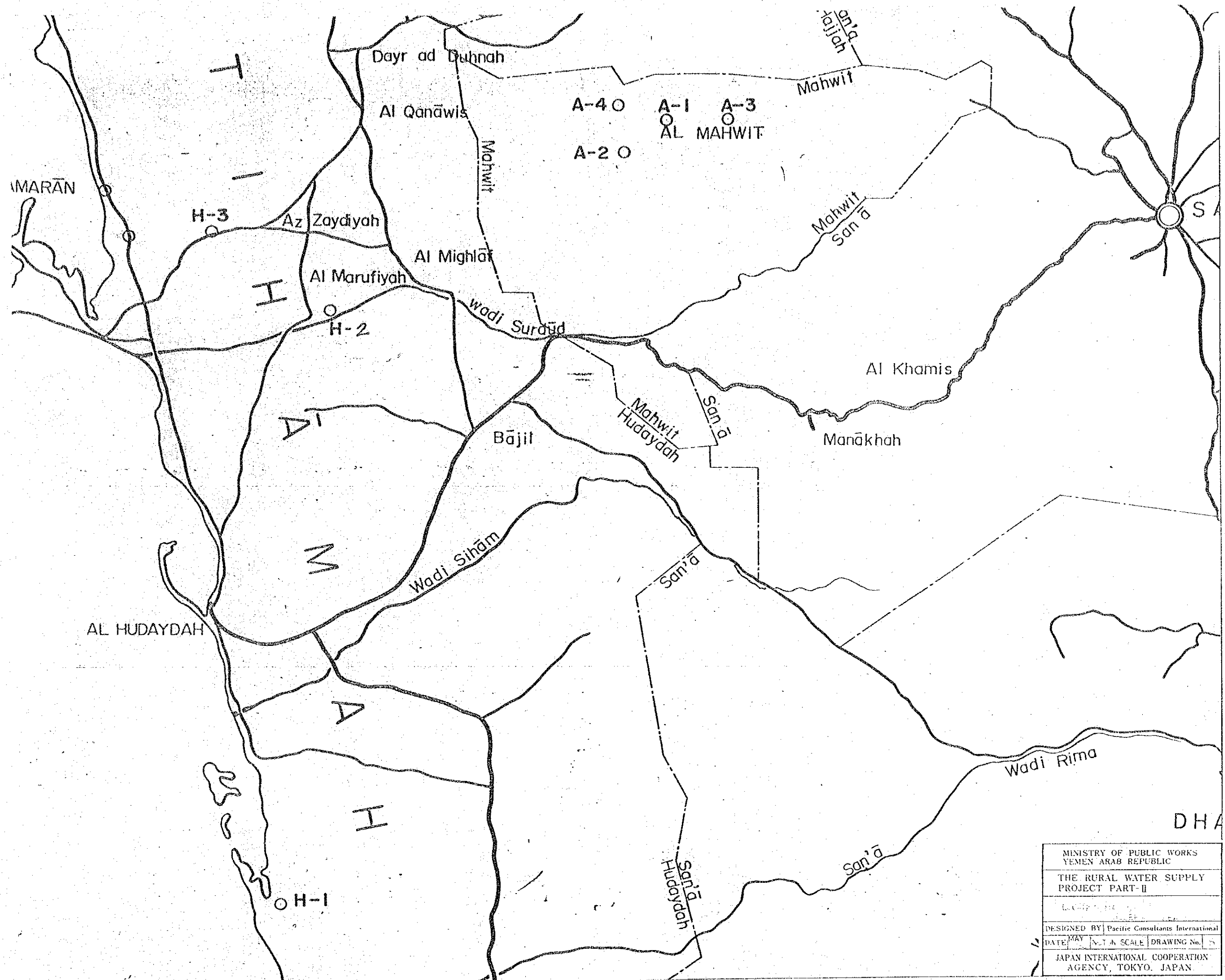
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THE RURAL WATER SUPPLY PROJECT PART-II	
LOCATION MAP OF PROJECT SITES	
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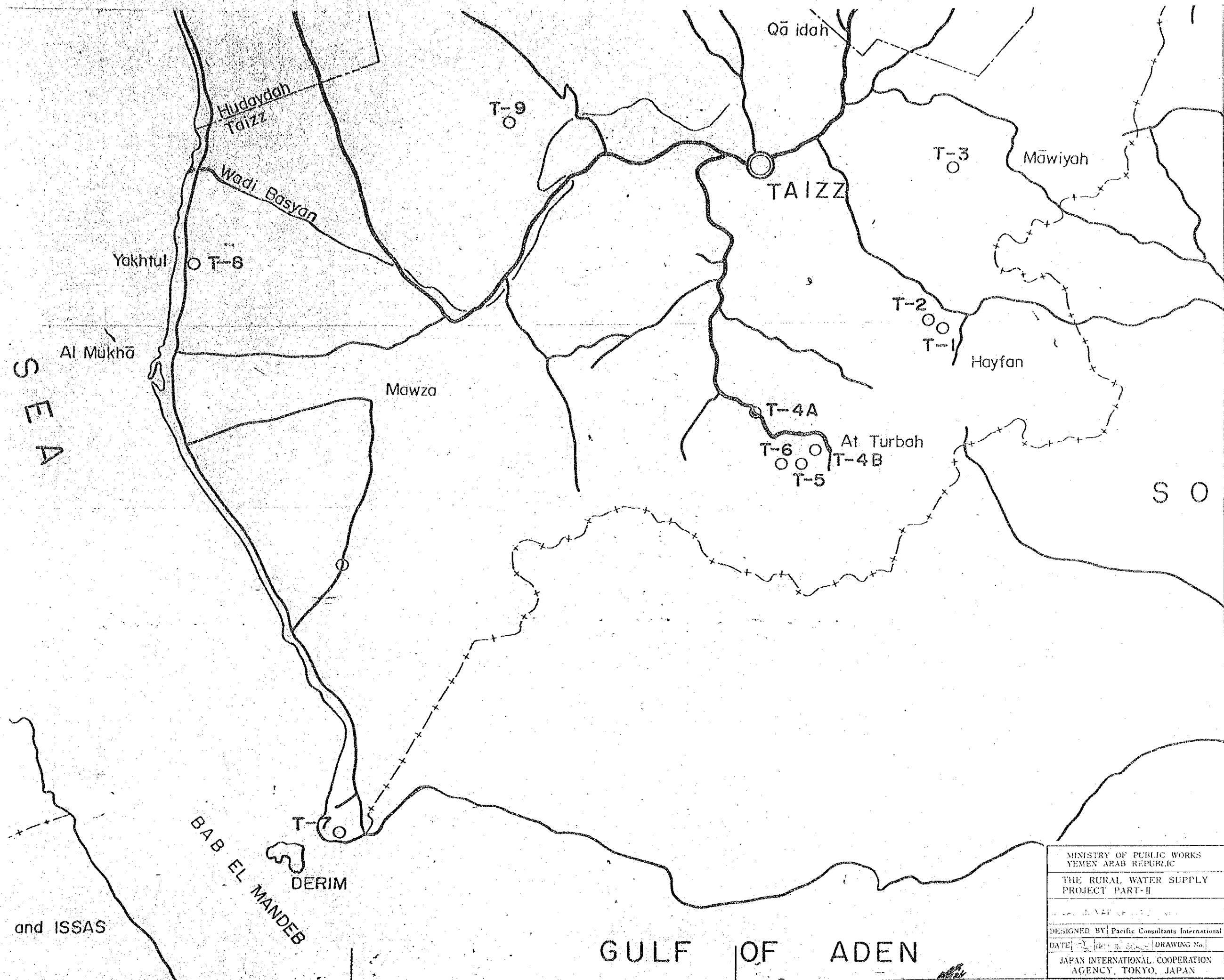
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LOCATION MAP OF HAJJAH AREA	
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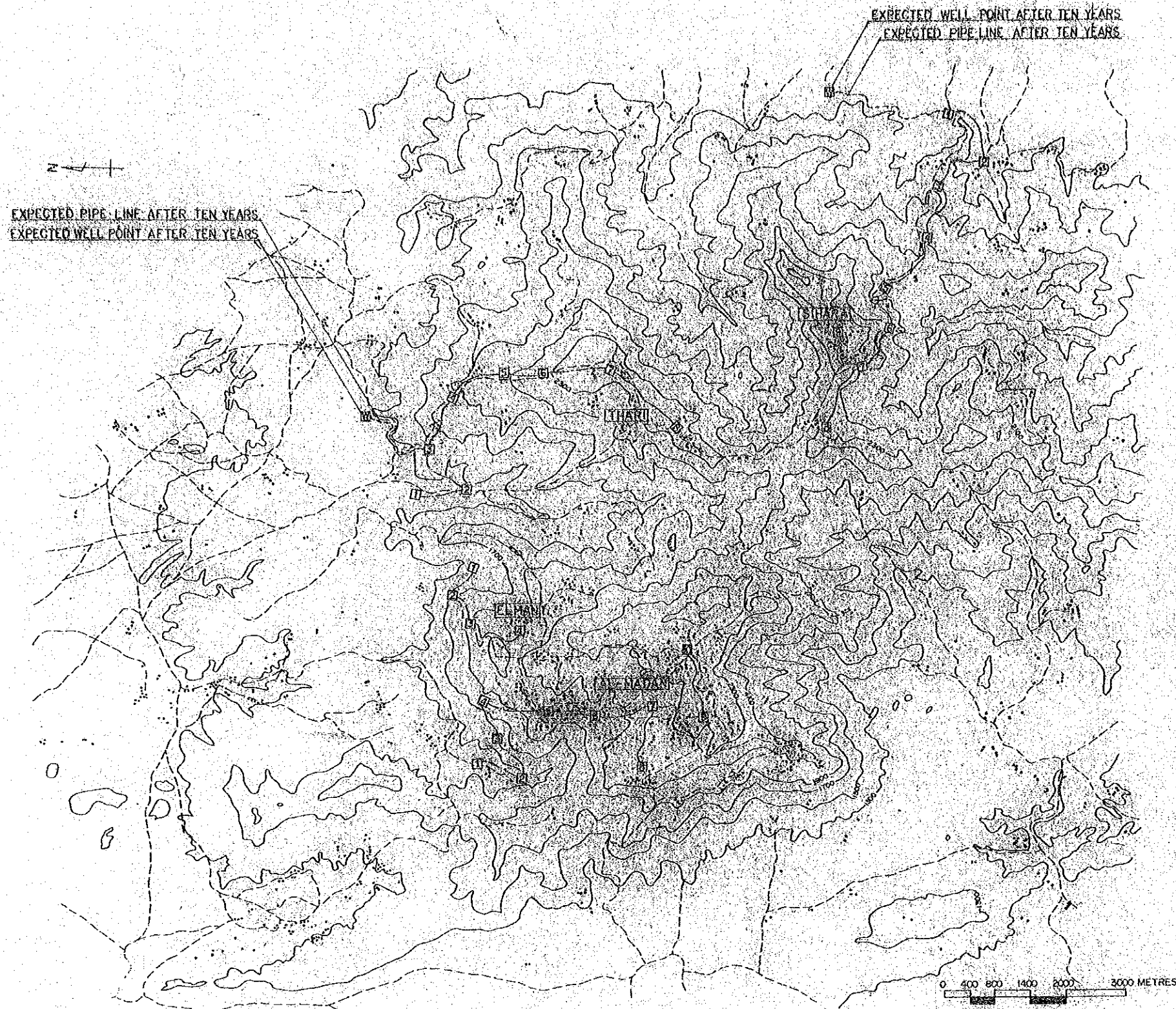
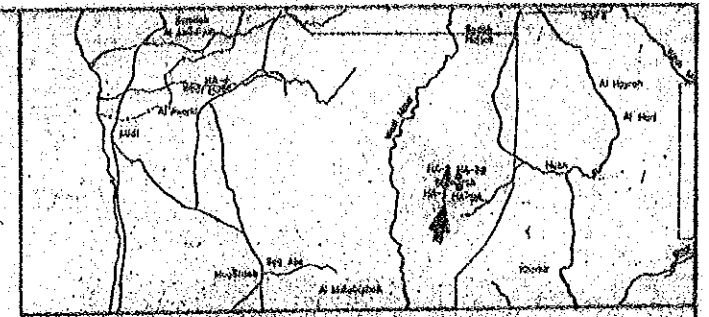
and ISSAS

BAB EL MANDEB

GULF OF ADEN

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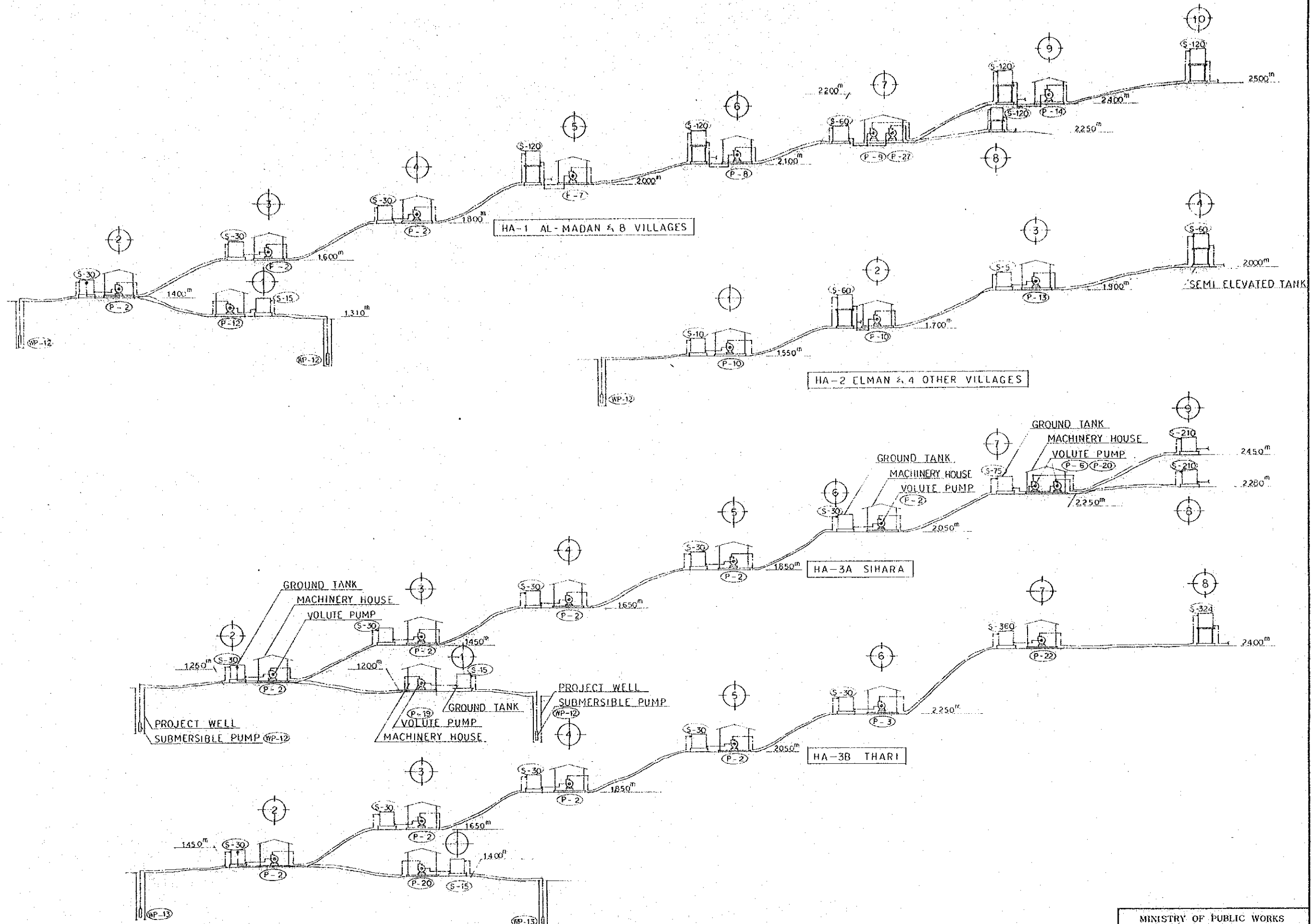
C. GENERAL LAYOUT
OF
PROJECT SITES



SITE	No	PROJECT WELL	MACHINERY HOUSE TYPE	TANK		TRANSMISSION LINE		
				TYP E	STEEL (TON)	H (m)	GSP	W L (Km)
HA-1	1	○	B-W	E	15	-	2 1/2	1.0
	2	○	B-W	E	30	-	4	1.0
AL-MADAN	3	-	B	E	30	-	4	1.0
	4	-	B	E	30	-	4	1.0
8 VILLAGES	5	-	B	G	120	1.3	3	1.0
	6	-	B	G	120	1.3	3	1.0
	7	-	C	D	60	-	2	1.0
	8	-	-	B	120	1.3	2 1/2	1.0
	9	-	-	B	120	1.3	2	1.3
	10	-	-	B	120	1.3	2	1.3
HA-2 ELMAN	1	○	B-W	E	10	-	2 1/2	1.0
	2	-	B	G	60	1.2	2	0.8
	3	-	B	E	5	-	2	1.3
	4	-	-	B	60	1.2	-	-
HA-3A	1	○	B-W	E	15	-	2 1/2	1.6
	2	○	B-W	E	30	-	4	1.3
SIHARA	3	-	B	E	30	-	4	1.2
	4	-	B	E	30	-	4	1.6
	5	-	B	E	30	-	4	1.2
	6	-	B	E	30	-	4	1.2
	7	-	C	D	75	-	2	1.7
	8	-	-	A	210	1.7	3	1.2
	9	-	-	A	210	1.7	-	-
HA-3B	1	○	B-W	E	15	-	2 1/2	0.6
	2	○	B-W	E	30	-	4	0.8
THARI	3	-	B	E	30	-	4	1.0
	4	-	B	E	30	-	4	1.1
	5	-	B	E	30	-	4	0.9
	6	-	B	E	30	-	4	1.4
	7	-	B	F	360	2.0	4	1.4
	8	-	-	B	324	2.4	2 1/2	2.2

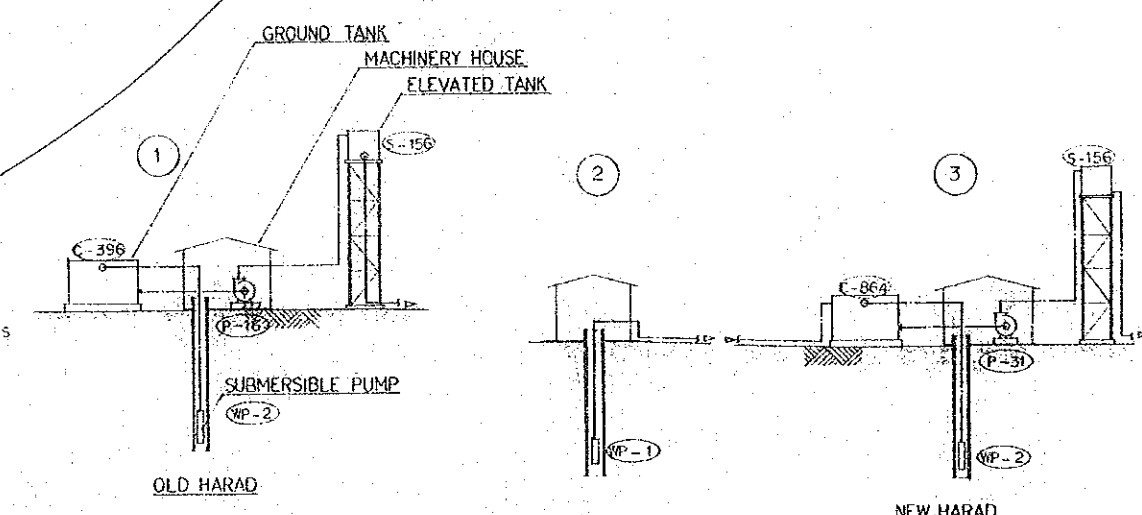
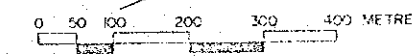
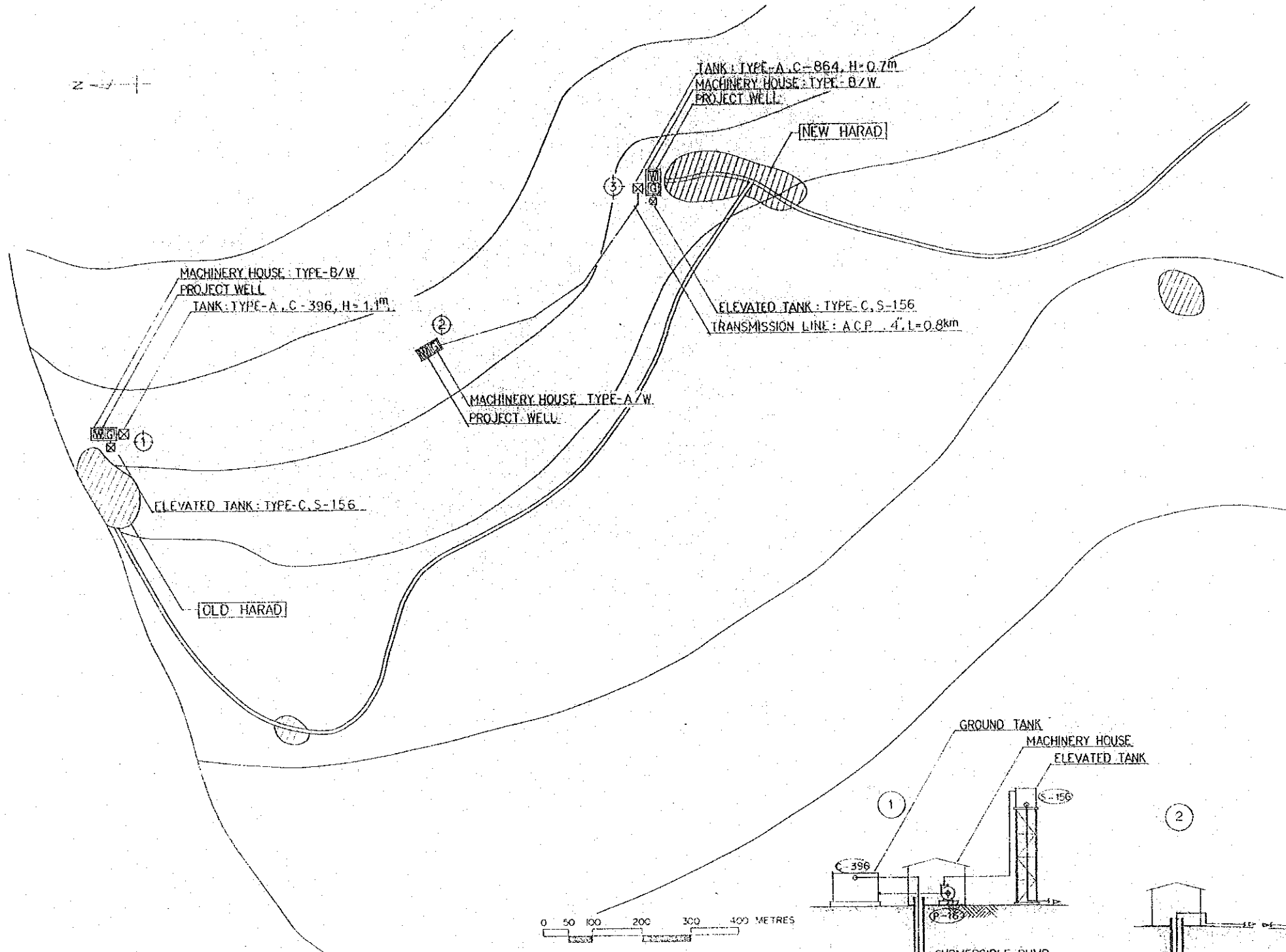
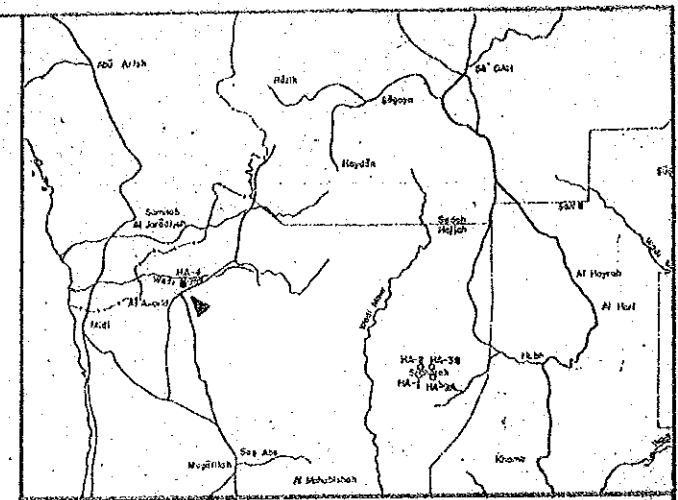
AL-MADAN — ELMAN — SIHARA — THARI SITES

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YEMEN ARAB REPUBLIC
THE RURAL WATER SUPPLY
PROJECT PART II
HA-1: AL-MADAN HA-2: ELMAN
HA-3A: SIHARA HA-3B: THARI
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SECTION NOT TO SCALE

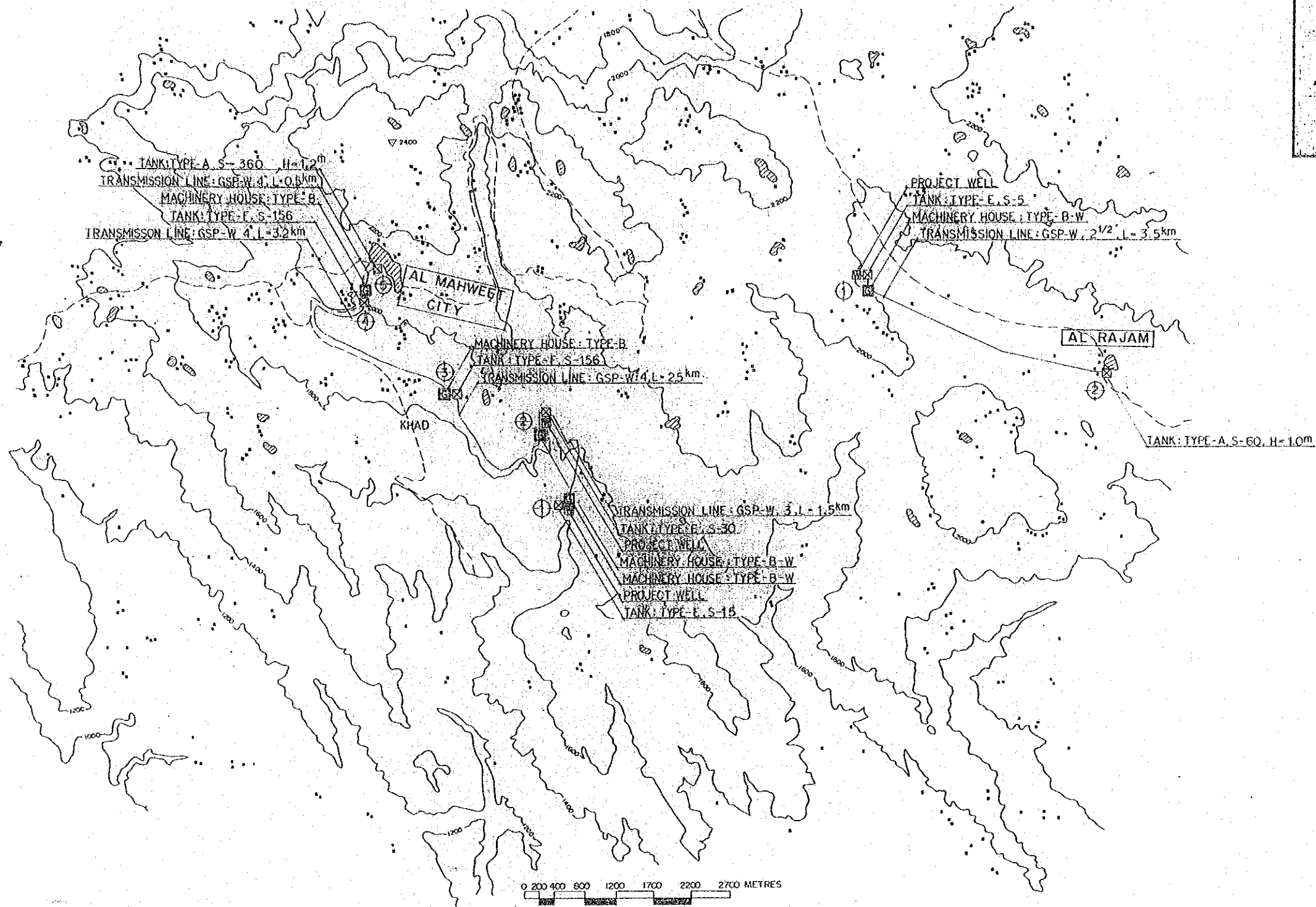
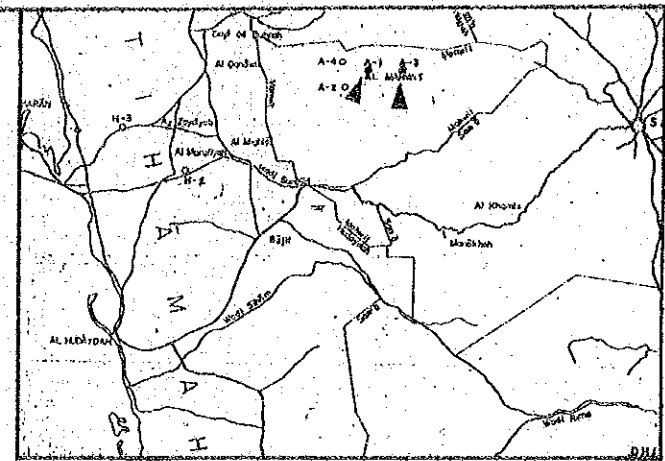
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SECTION: HAJJA AREA	
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HARAD SITE

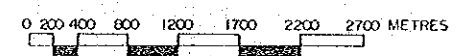
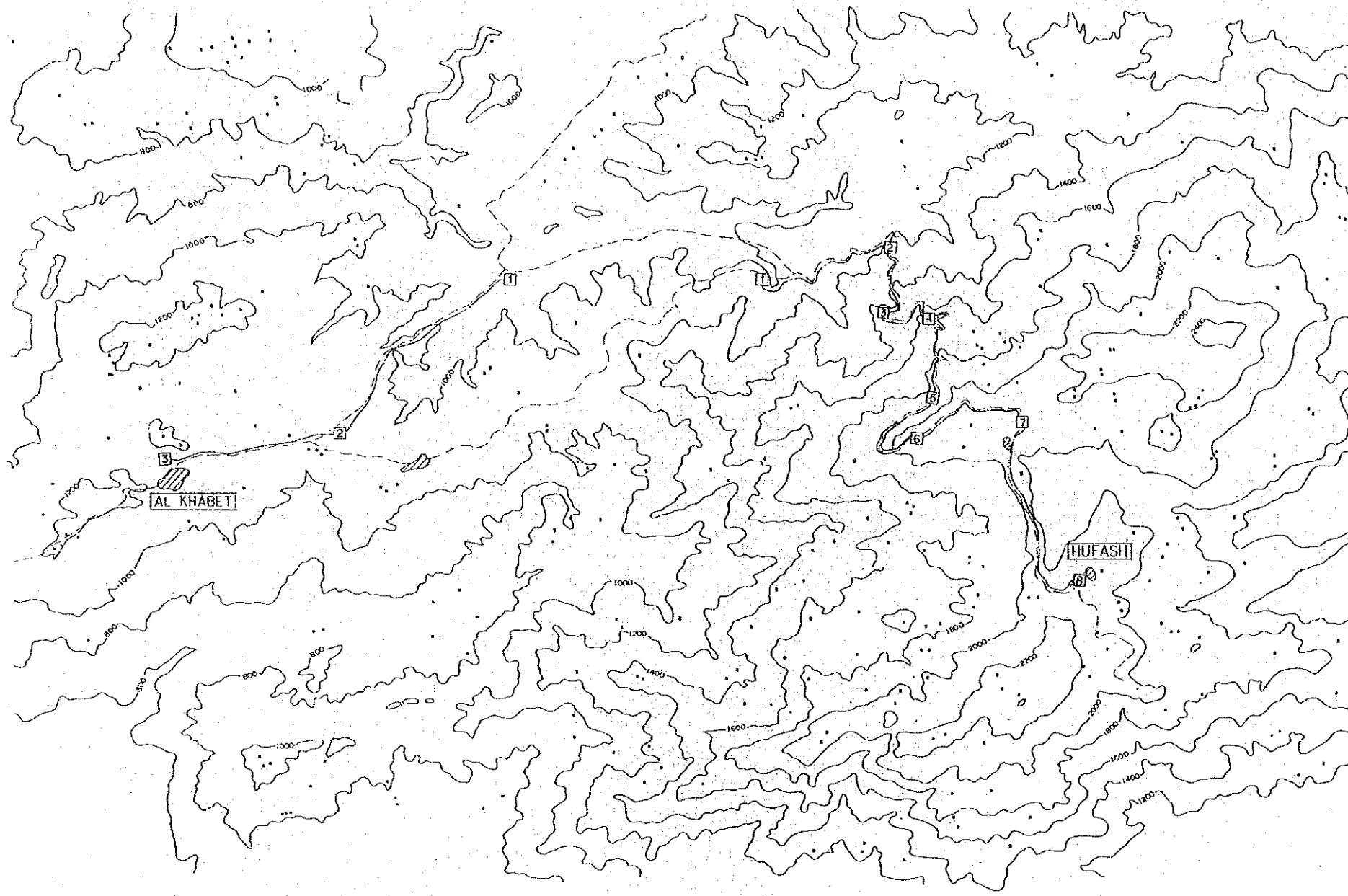
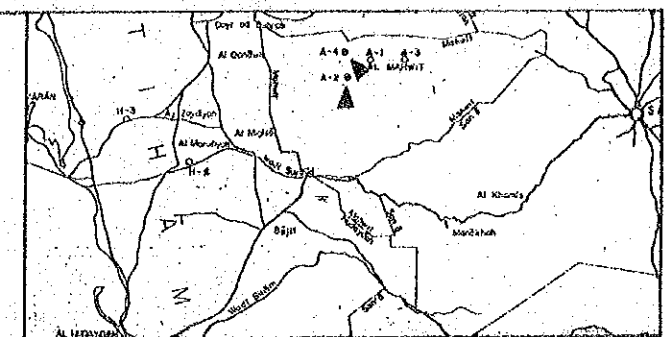
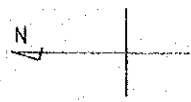
SECTION (NOT TO SCALE)

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HA-4 : HARAD	
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AL RAJAM SITE

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THE RURAL WATER SUPPLY PROJECT PART-II		
A-1 AL-MAHWEET CITY (A)		
A-3 AL-RAJAM		
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		DRAWING No. 10
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HUFASH AL KHABET SITES

SITE	No	PROJECT WELL	MACHINERY HOUSE TYPE	TANK		TRANSMISSION LINE		
				T Y P E	S H	G S P	W L	
				TON	m	Φ	L km	
A-2 HUFASH	1	○	B-W	E	10	—	3"	2.4
	2	—	B	E	10	—	3"	1.5
	3	—	B	E	10	—	3"	1.5
	4	—	B	E	10	—	3"	1.8
	5	—	B	E	10	—	3"	1.8
	6	—	B	E	10	—	3"	1.9
	7	—	B	E	10	—	3"	3.2
	8	—	—	A	120	1.2		
A-4 AL KHABET	1	○	B/W	E	10	—	2 1/2"	3.6
	2	—	B	E	10	—	2 1/2"	2.5
	3	—	—	A	120	1.2		

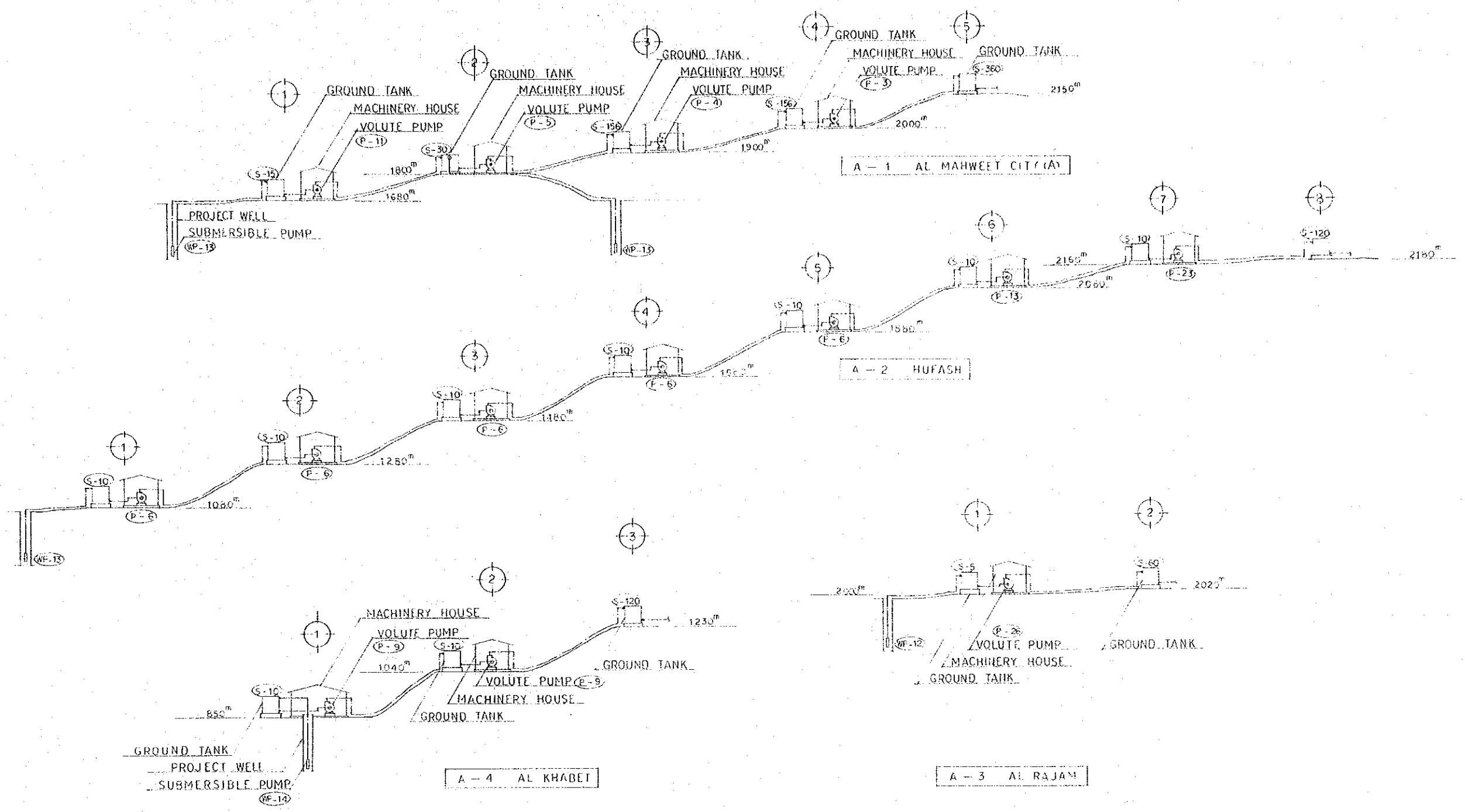
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YEMEN ARAB REPUBLIC

THE RURAL WATER SUPPLY
PROJECT PART-II

A-2:HUFASH A-4:AL-KHABET

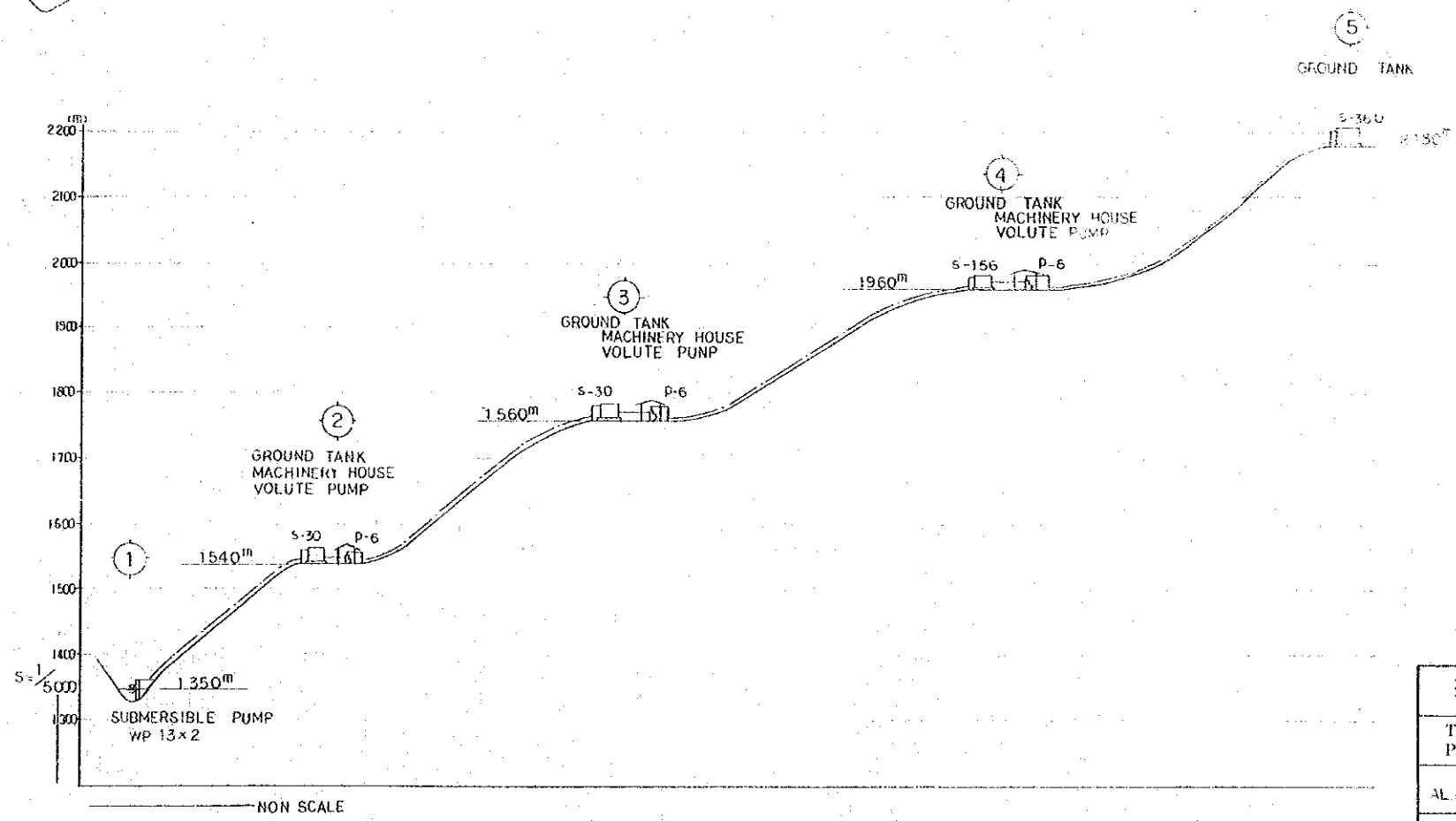
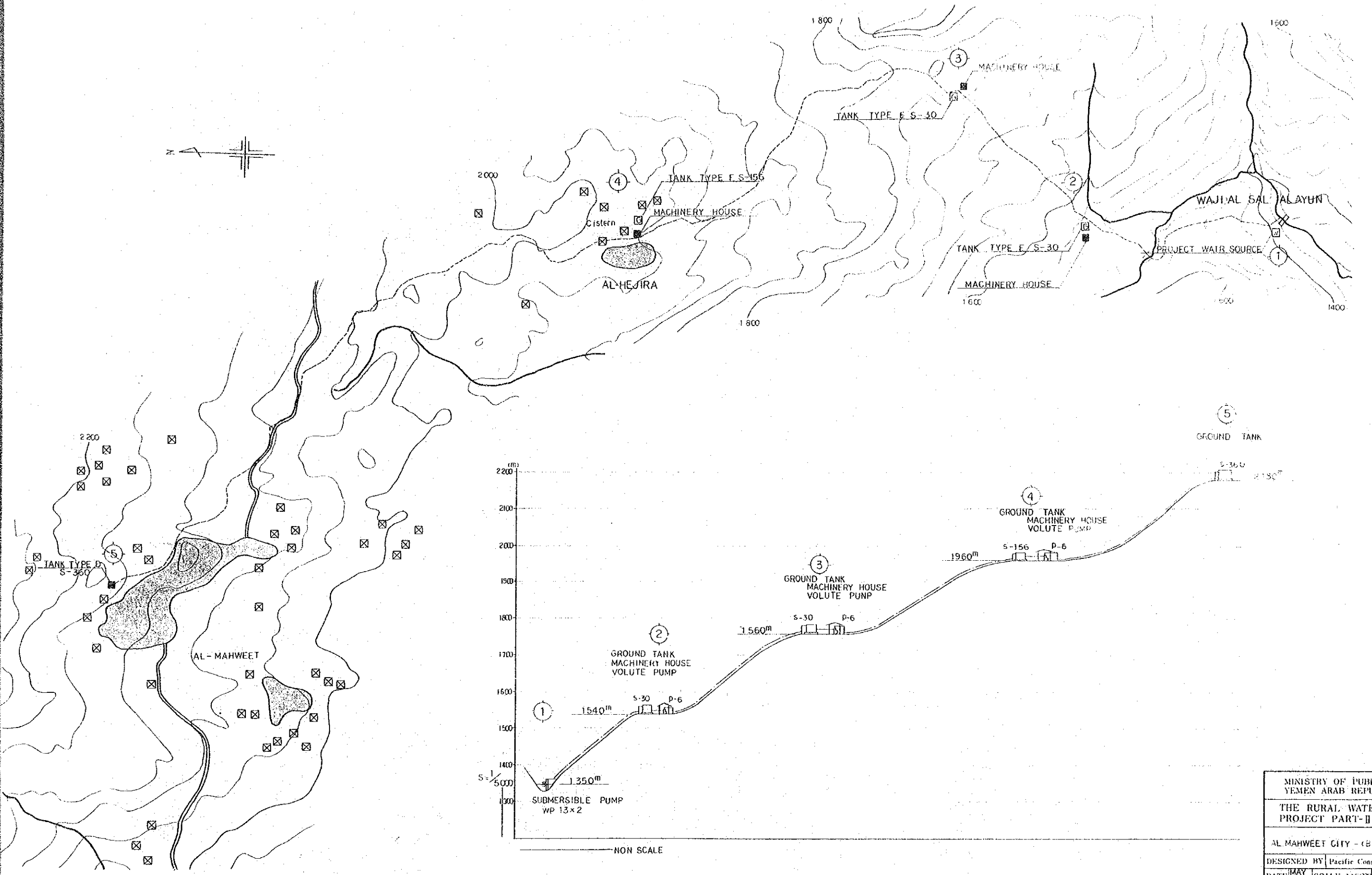
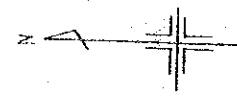
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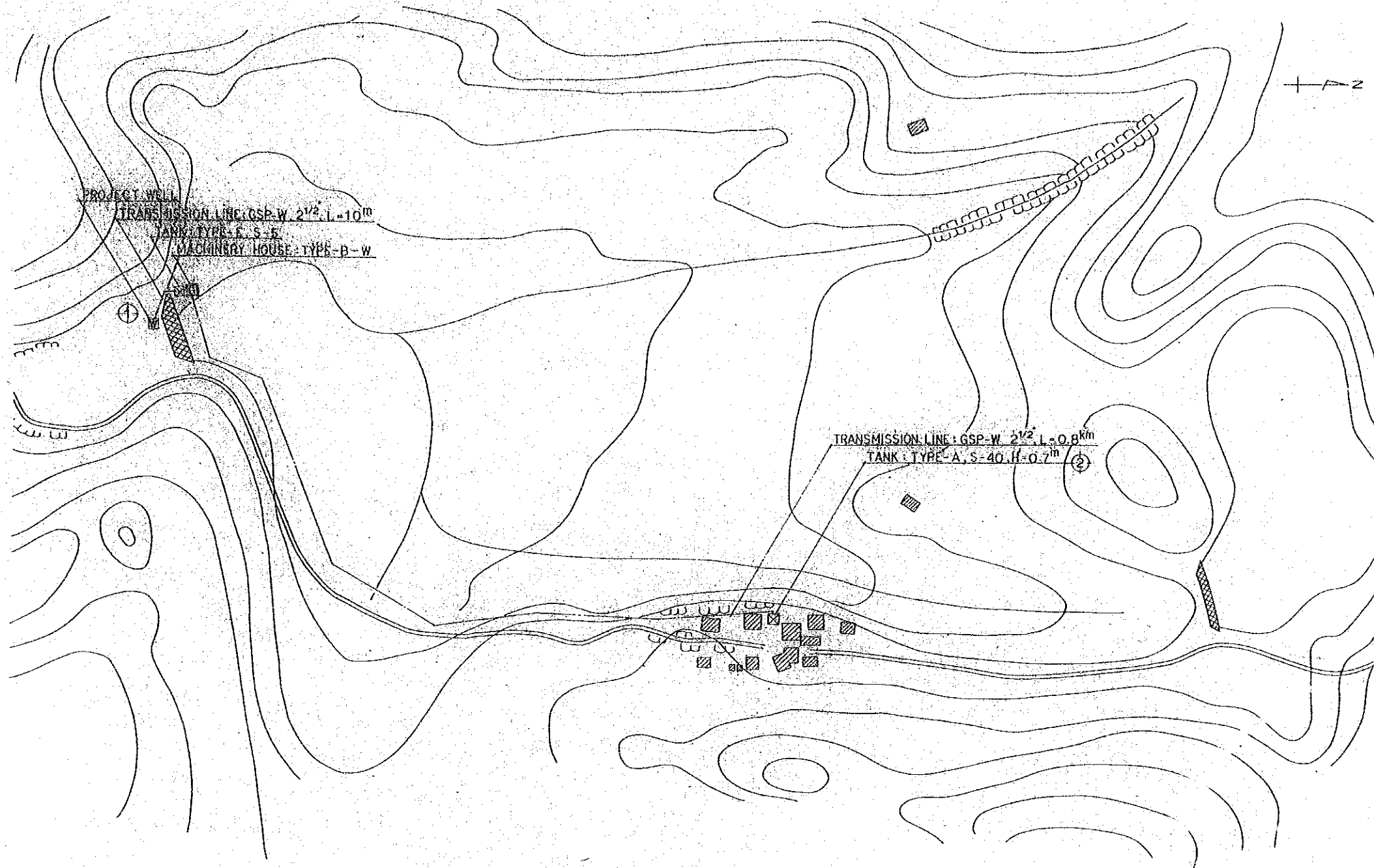
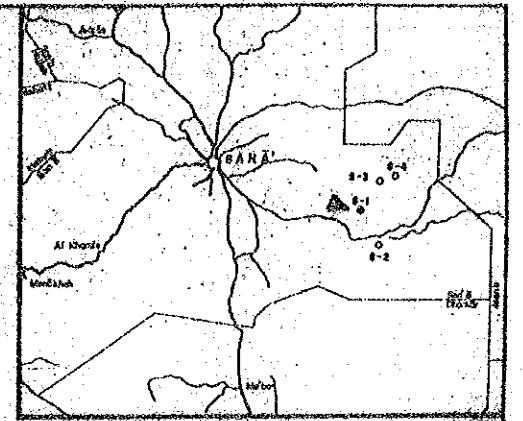


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SECTION: AL MAHWEET AREA	
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AL MAHWEET CITY - (B)			
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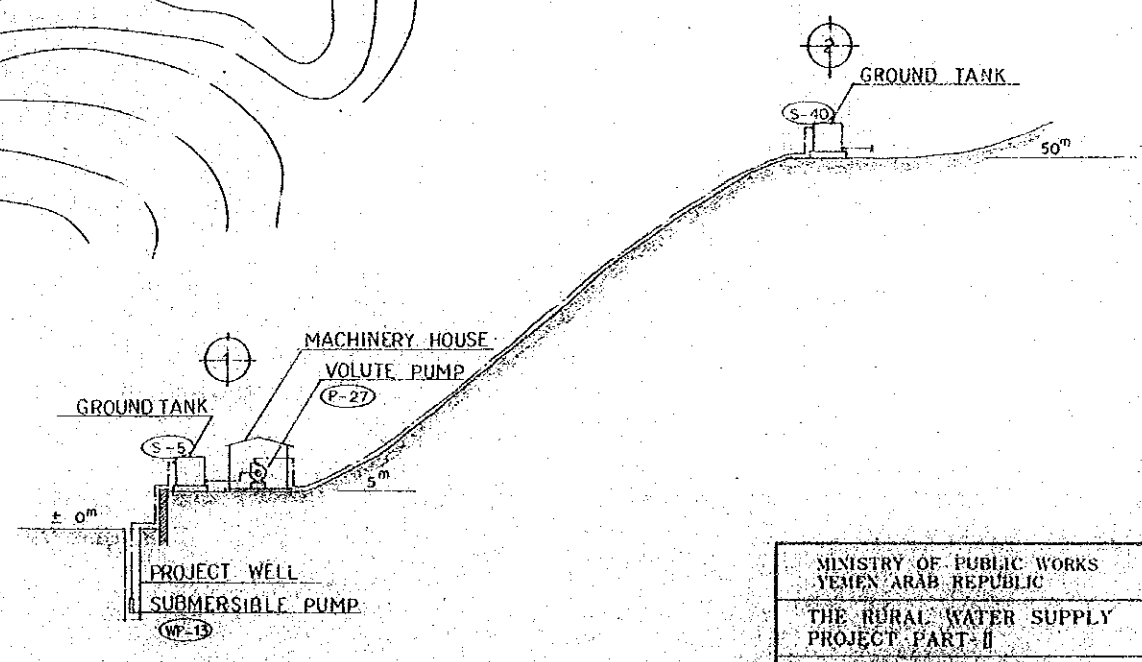


PROJECT WELL
 TRANSMISSION LINE: GSP-W 2 1/2" L=10^m
 TANK: TYPE-C, S-5
 MACHINERY HOUSE: TYPE-B-W

TRANSMISSION LINE: GSP-W 2 1/2" L=0.8 km
 TANK: TYPE-A, S-40, H=0.7^m

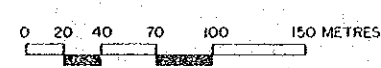
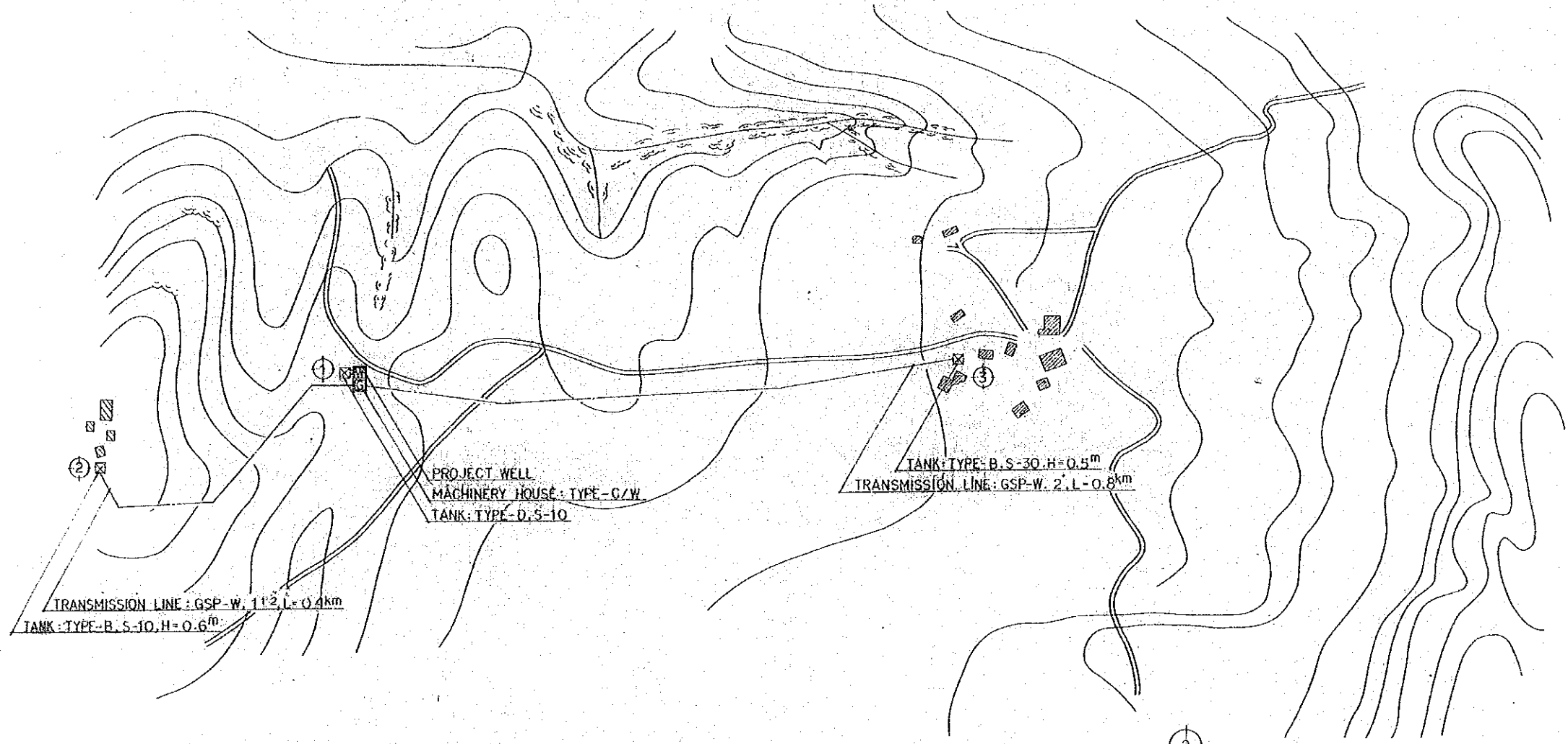
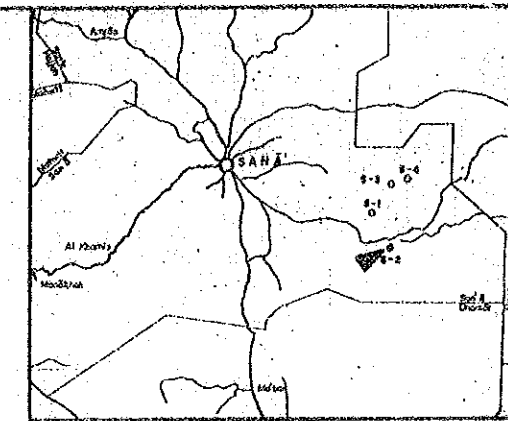
0 20 40 70 100 150 METRES

BANY SHAKER & BAIT ABO SABAA SITE

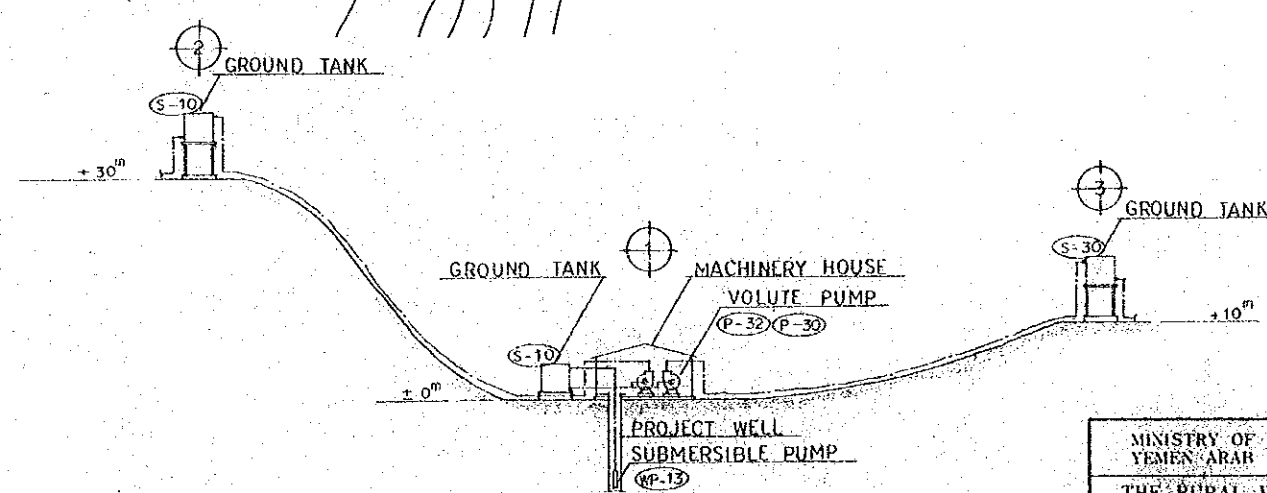


SECTION NOT TO SCALE

MINISTRY OF PUBLIC WORKS YEMEN ARAB REPUBLIC	
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S-1 BANY SHAKER & BAIT ABO SABAA	
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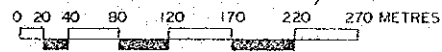
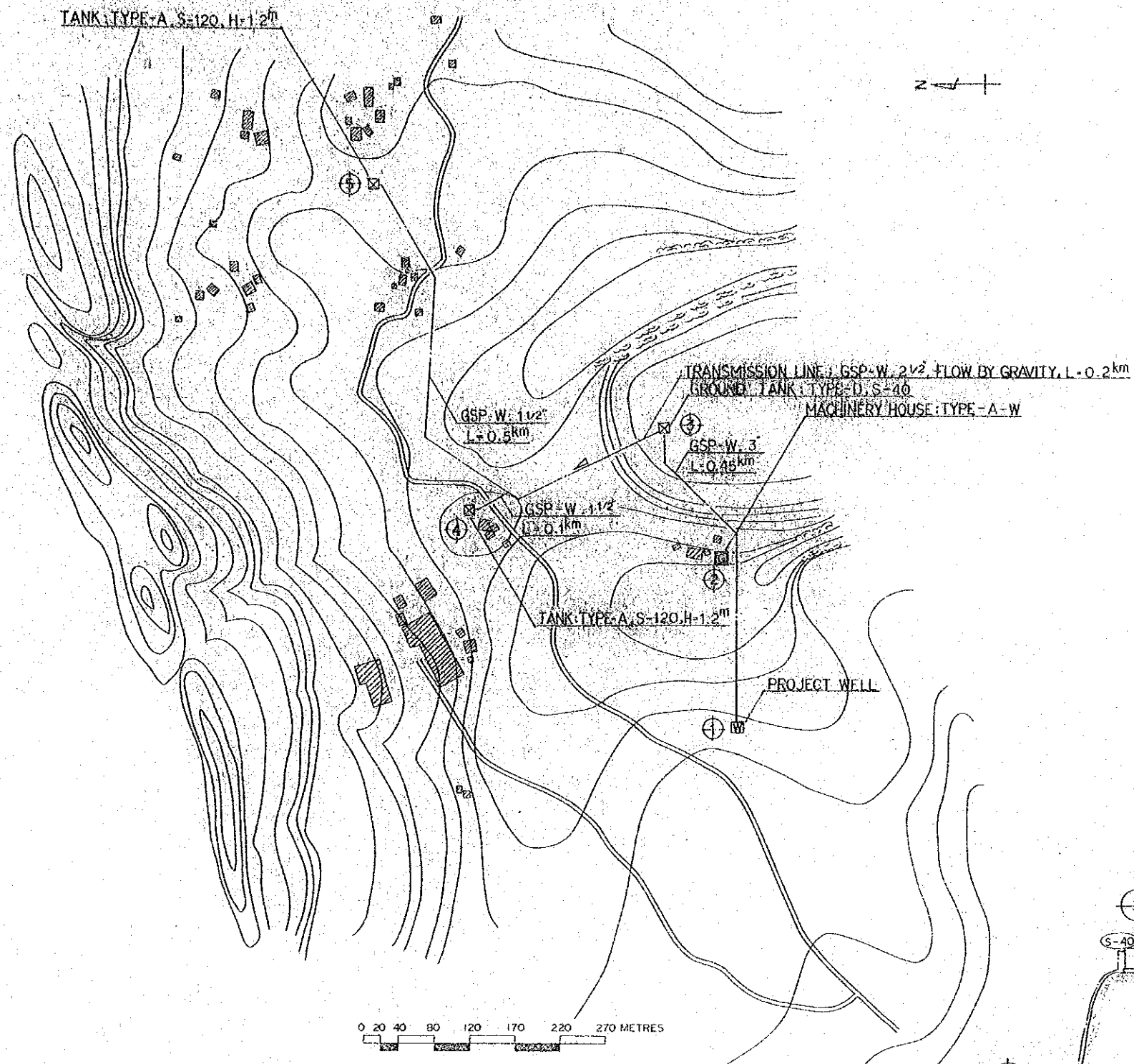
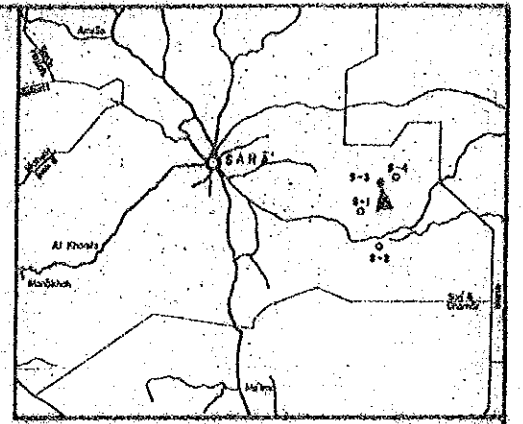


BAIT ABO HASHEM SITE

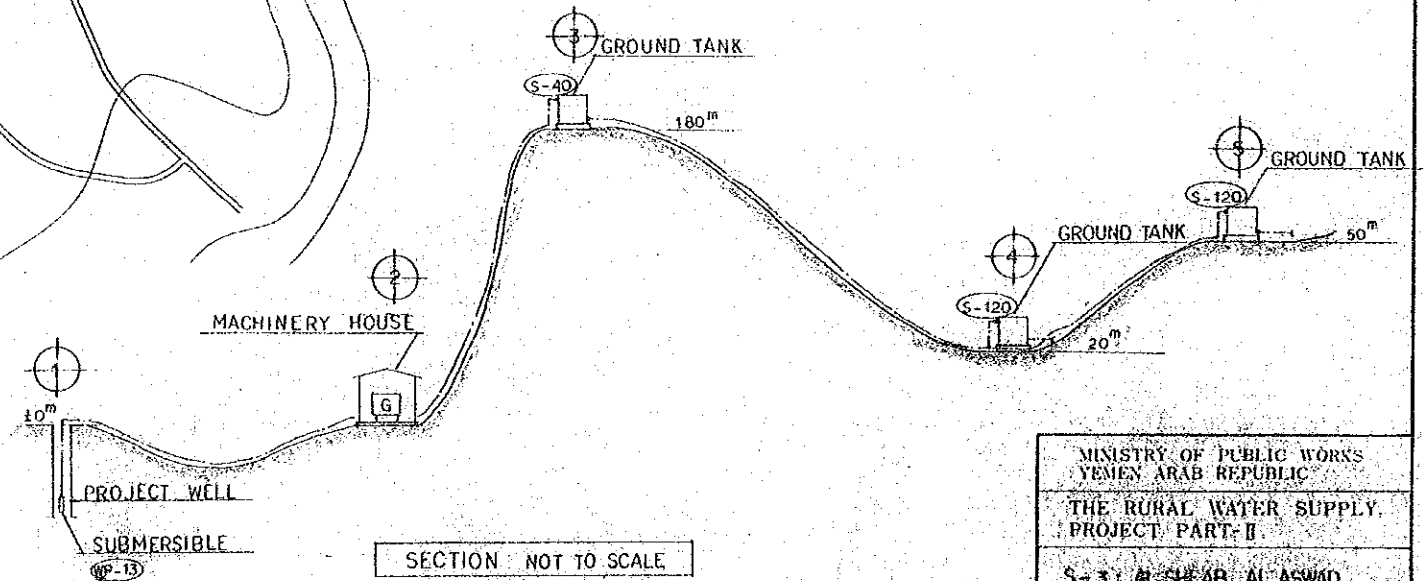


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S-2 BAIT ABO HASHEM	
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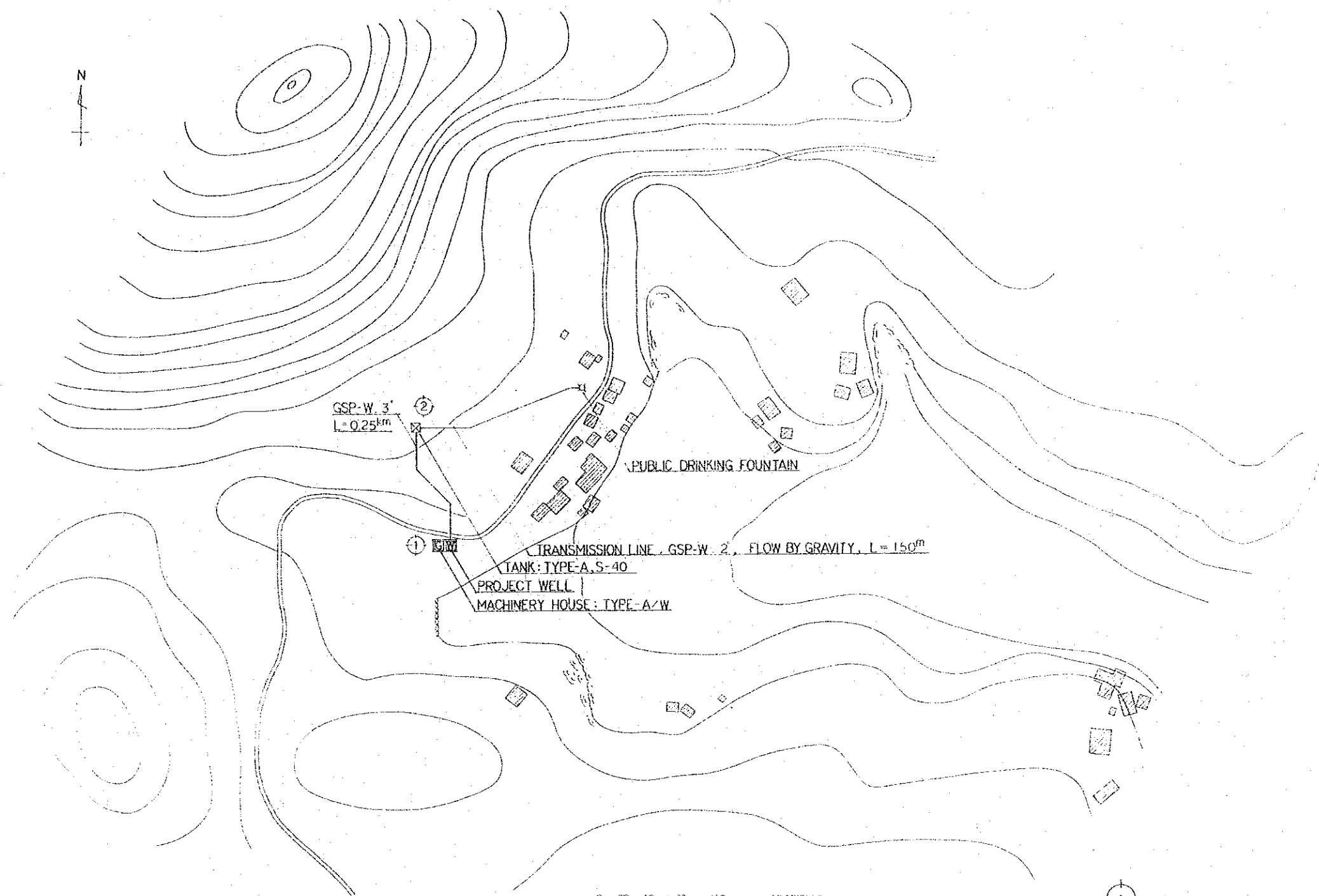
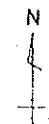
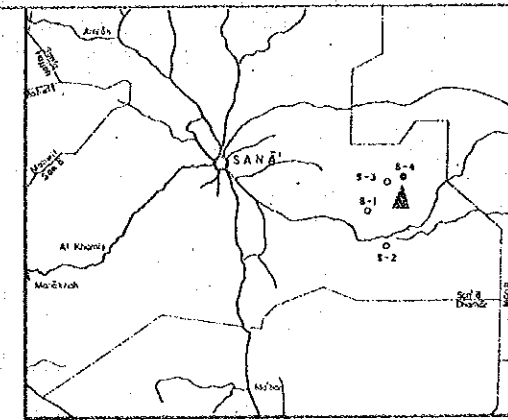


AL SHEAB AND AL ASWAD SITE

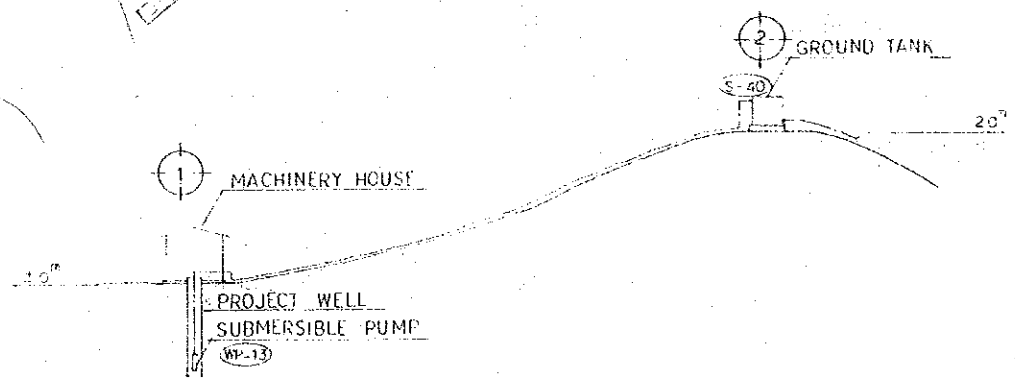


SECTION NOT TO SCALE

MINISTRY OF PUBLIC WORKS YEMEN ARAB REPUBLIC		
THE RURAL WATER SUPPLY PROJECT, PART: II		
S-3: AL SHEAB, AL ASWAD		
DESIGNED BY	Pacific Consultants International	
DATE	MAY 1960	SCALE: 1:15
DRAWING No. 15		
JAPAN INTERNATIONAL COOPERATION AGENCY, TOKYO, JAPAN		

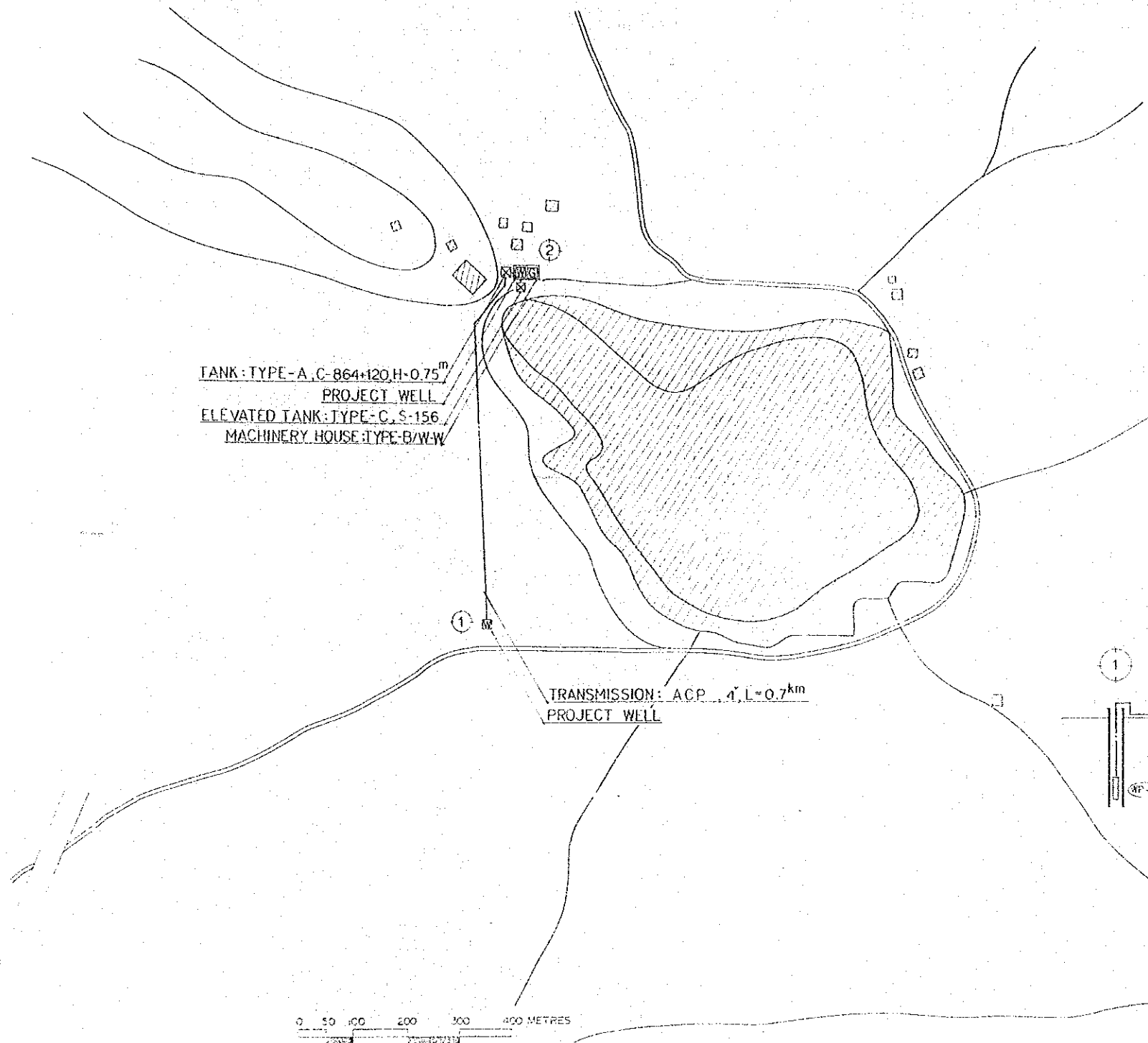
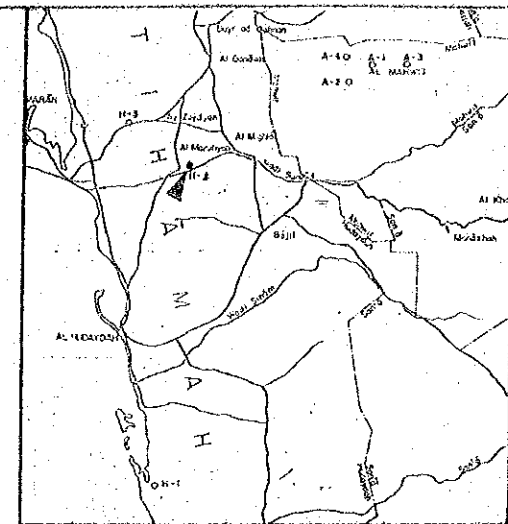


BANY FARHAN AND BANY SARIA'A SITE



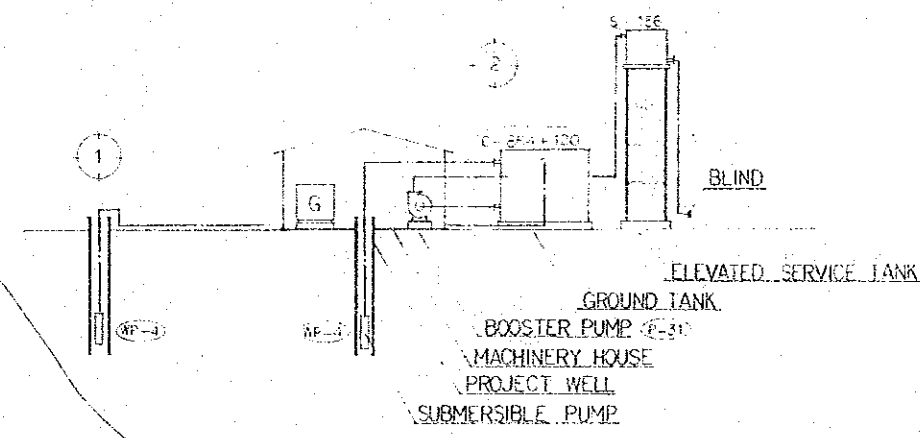
SECTION NOT TO SCALE

MINISTRY OF PUBLIC WORKS YEMEN ARAB REPUBLIC	
THE RURAL WATER SUPPLY PROJECT PART-II	
S-4: BANY FARHAN - BANY SARIA'A	
DESIGNED BY: Pacific Consultants International	DATE: MAY '80
SCALE: 1:1000	DRAWING No. 16
JAPAN INTERNATIONAL COOPERATION AGENCY, TOKYO, JAPAN	



TANK: TYPE-A, C-864x120, H-0.75^m
 PROJECT WELL
 ELEVATED TANK: TYPE-C, S-156
 MACHINERY HOUSE: TYPE-B/W/W

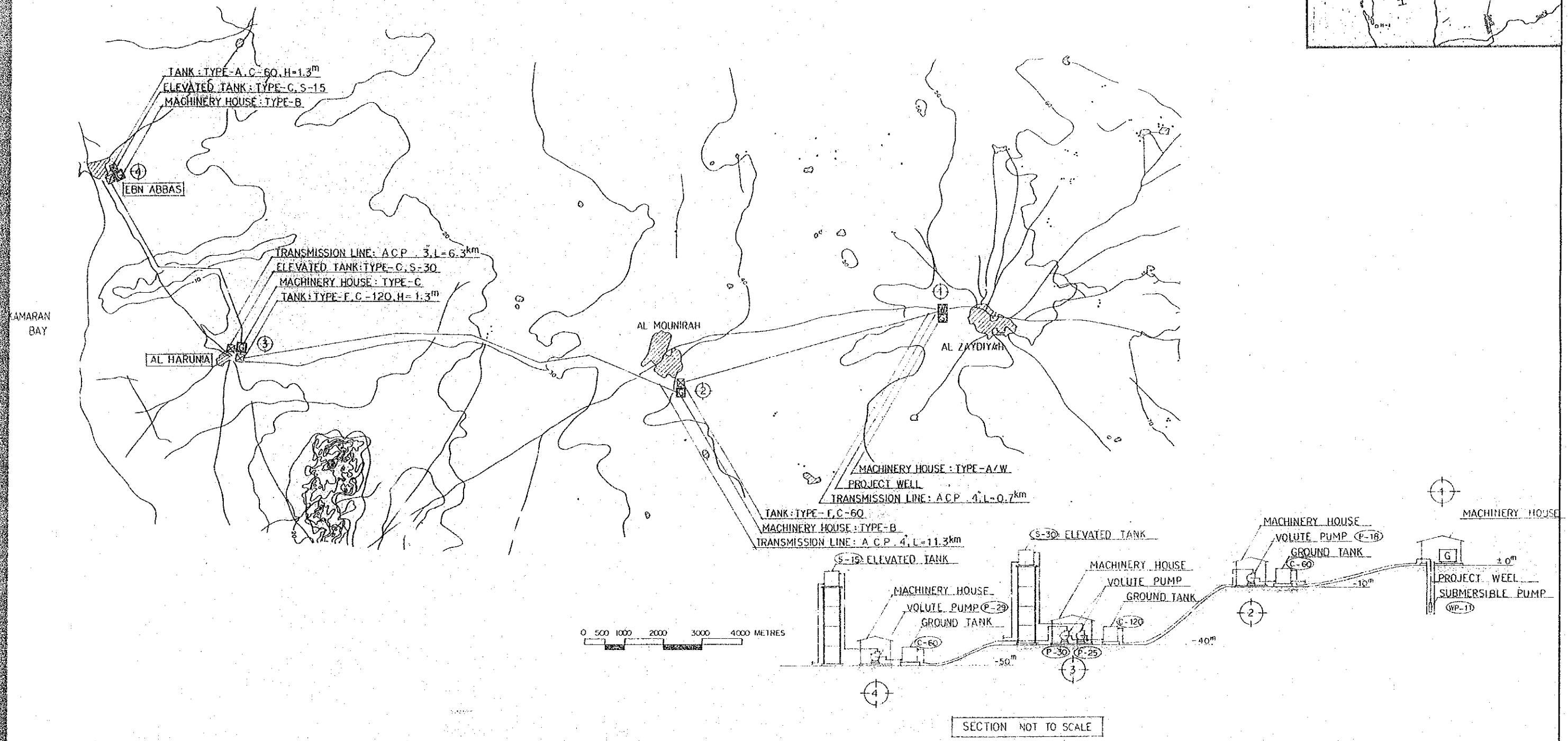
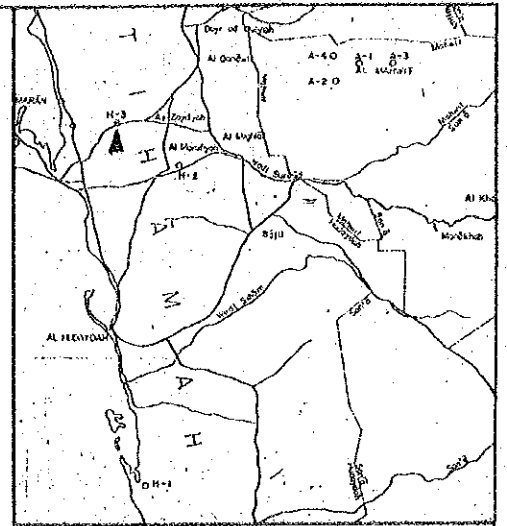
TRANSMISSION: ACP 4" L=0.7km
 PROJECT WELL



SECTION NOT TO SCALE

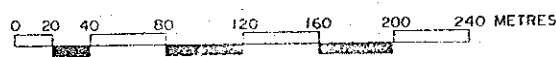
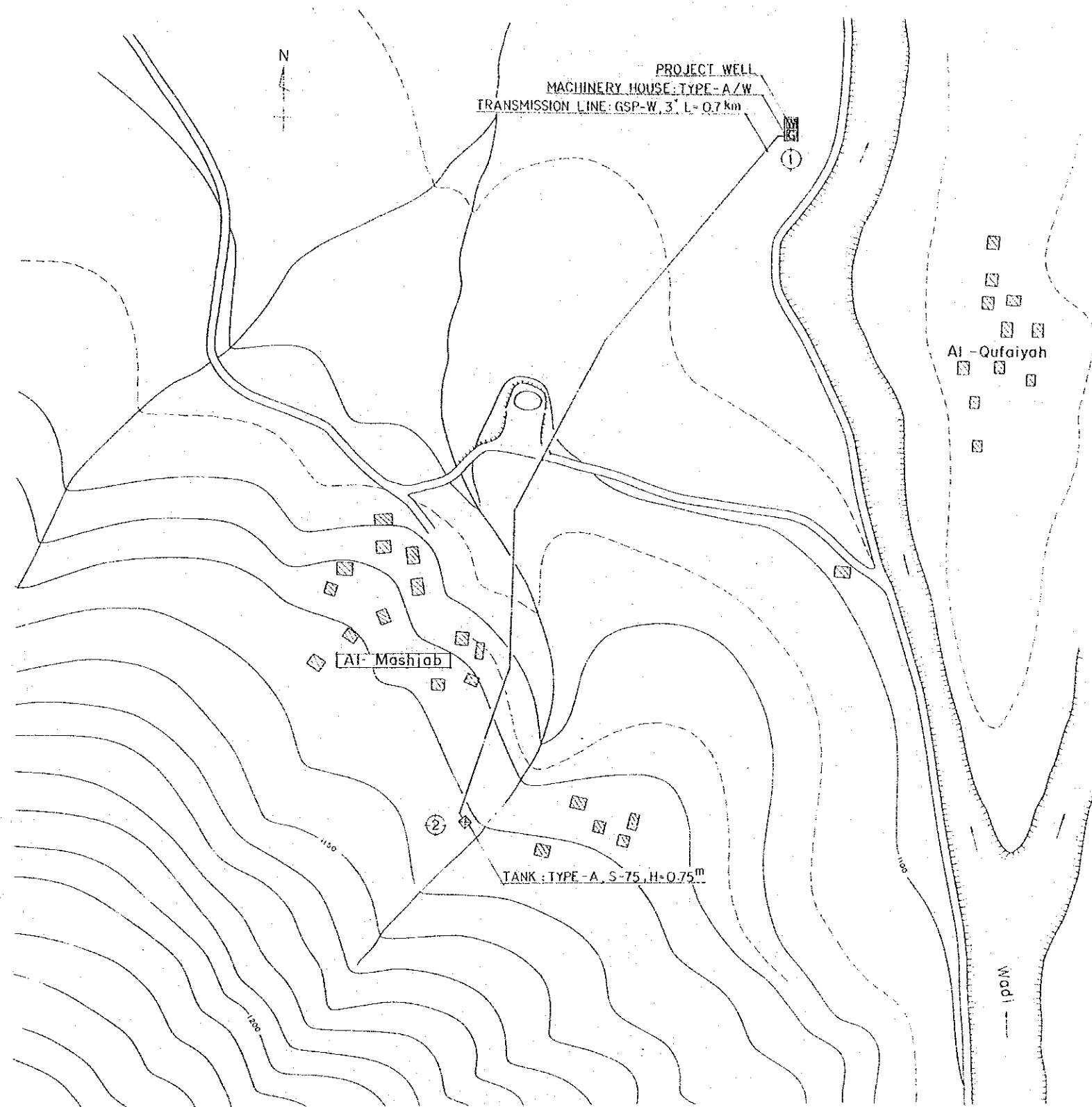
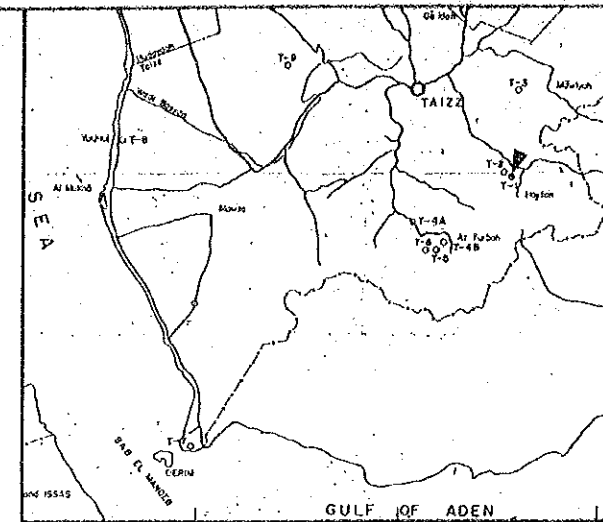
AL DAHI

MINISTRY OF PUBLIC WORKS YEMEN ARAB REPUBLIC
THE RURAL WATER SUPPLY PROJECT PART-II
H-2 ; AL- DAHI
DESIGNED BY Pacific Consultants International DATE MAY 60 SCALE 1: DRAWING No. 18
JAPAN INTERNATIONAL COOPERATION AGENCY, TOKYO, JAPAN

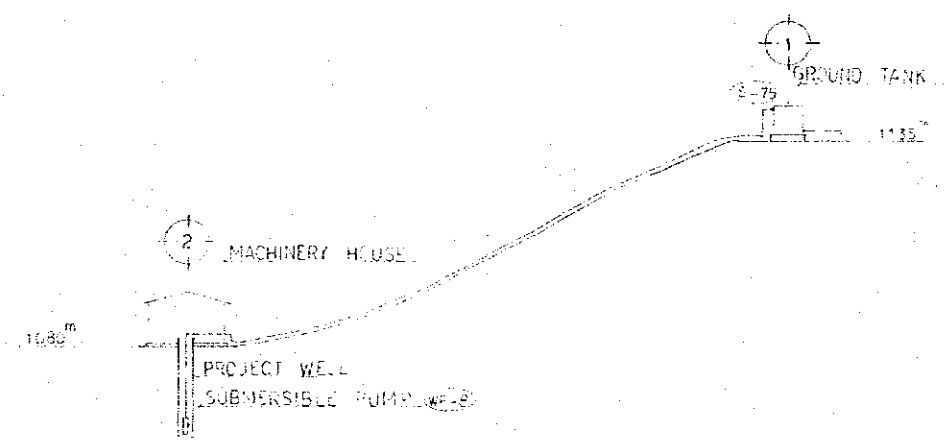


AL MOUNIRAH (to supply EBN ABBAS & AL HARUNIA)

MINISTRY OF PUBLIC WORKS YEMEN ARAB REPUBLIC		
THE RURAL WATER SUPPLY PROJECT PART-II		
H-3 : AL-MOUNIRAH		
DESIGNED BY	Pacific Consultants International	
DATE	SCALE 1:80	DRAWING No. 19
JAPAN INTERNATIONAL COOPERATION AGENCY, TOKYO, JAPAN		

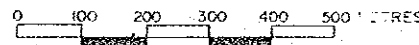
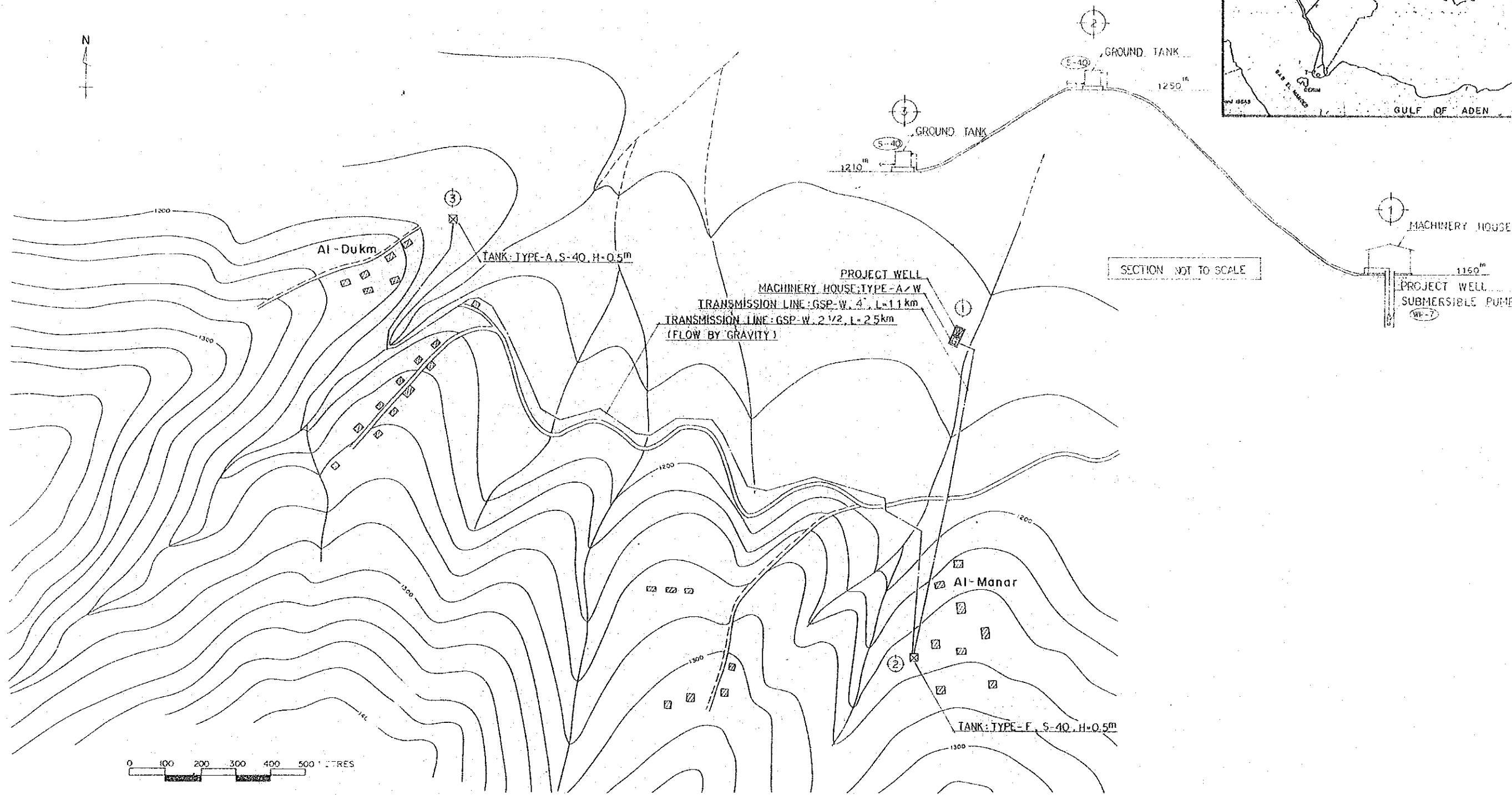
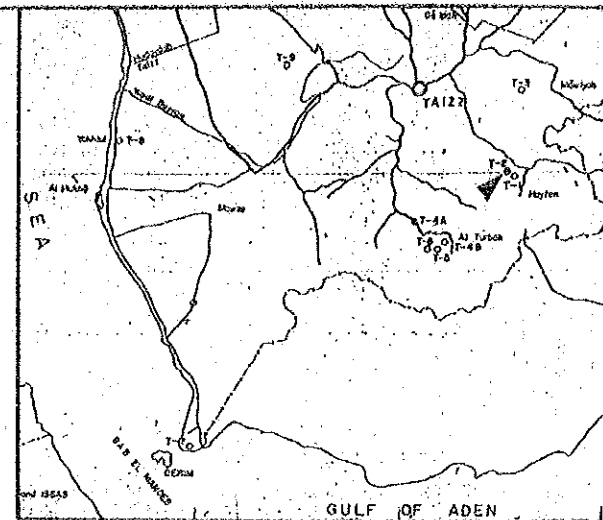


AL MASHJAB SITE



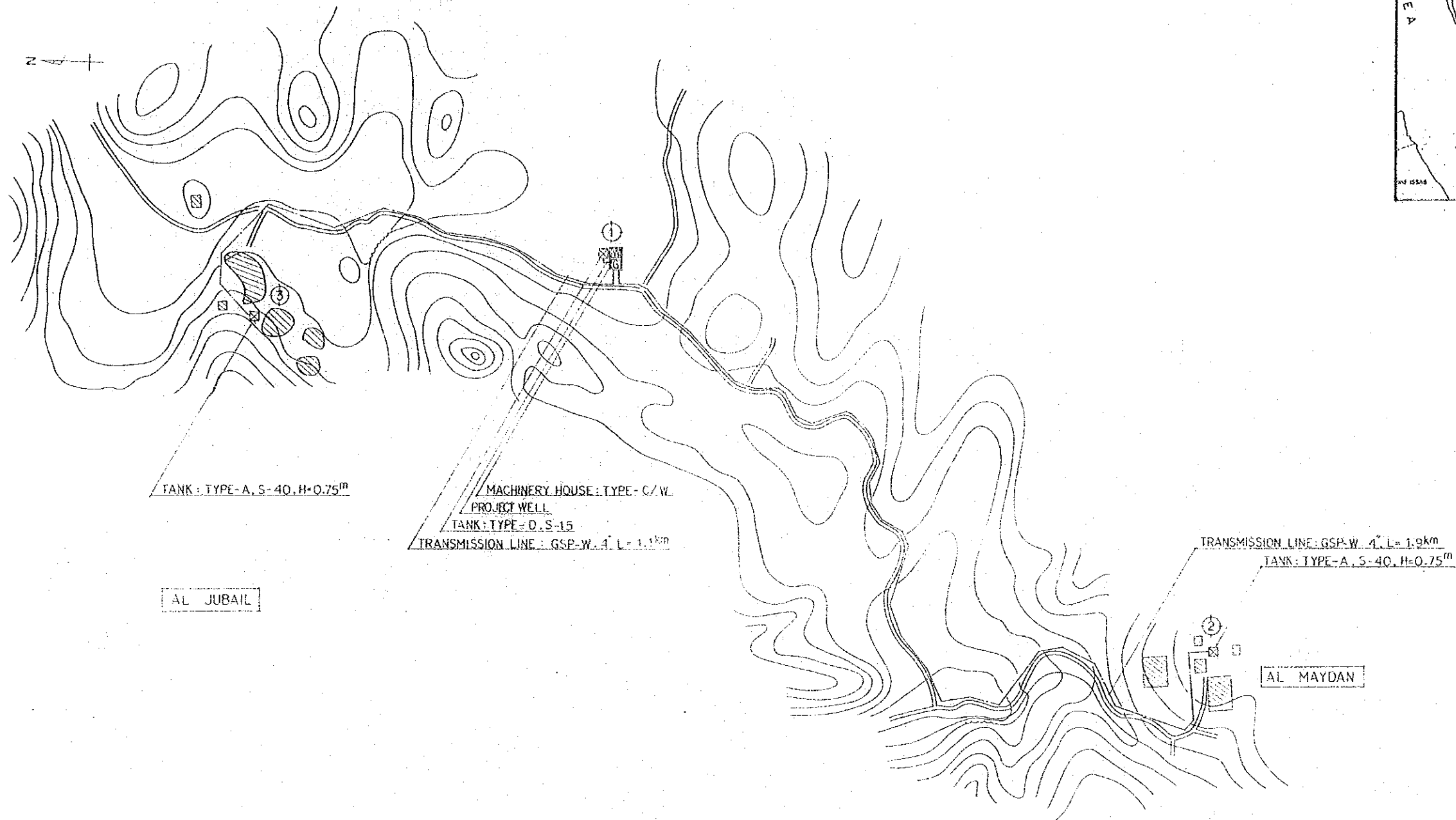
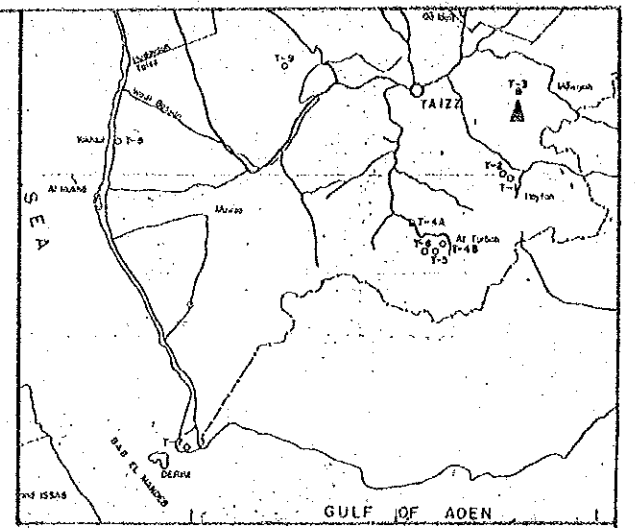
SECTION NOT TO SCALE

MINISTRY OF PUBLIC WORKS YEMEN ARAB REPUBLIC	
THE RURAL WATER SUPPLY PROJECT PART-II	
T-1: AL-MASHJAB	
DESIGNED BY	Pacific Consultants International
DATE	MAY 80
SCALE	1:1
DRAWING No.	20
JAPAN INTERNATIONAL COOPERATION AGENCY, TOKYO, JAPAN	

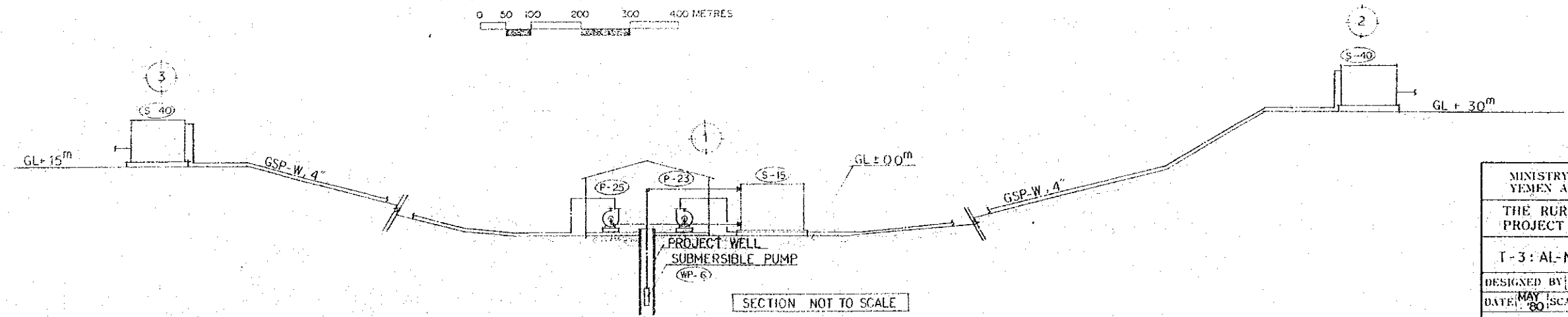
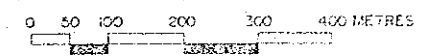


AL MANARA AL DUKUM

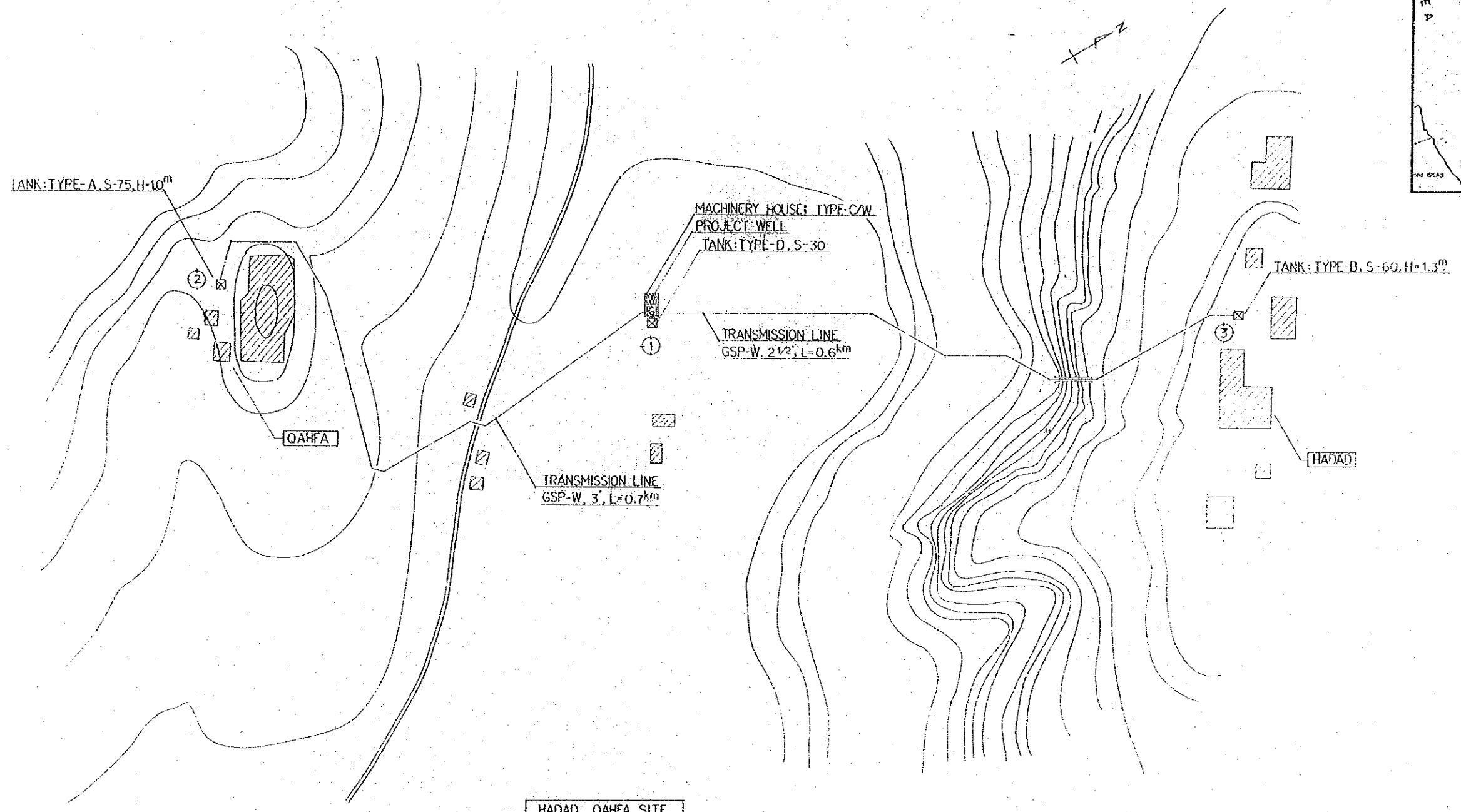
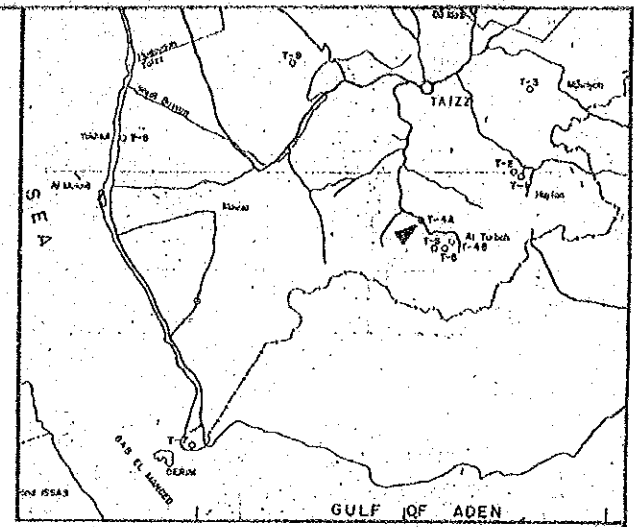
MINISTRY OF PUBLIC WORKS YEMEN ARAB REPUBLIC	
THE RURAL WATER SUPPLY PROJECT PART-II	
T-2 : AL MANARA, AL DUKUM	
DESIGNED BY	Pacific Consultants International
DATE	MAY 1980
SCALE	1 : 2000
DRAWING No.	21
JAPAN INTERNATIONAL COOPERATION AGENCY, TOKYO, JAPAN	



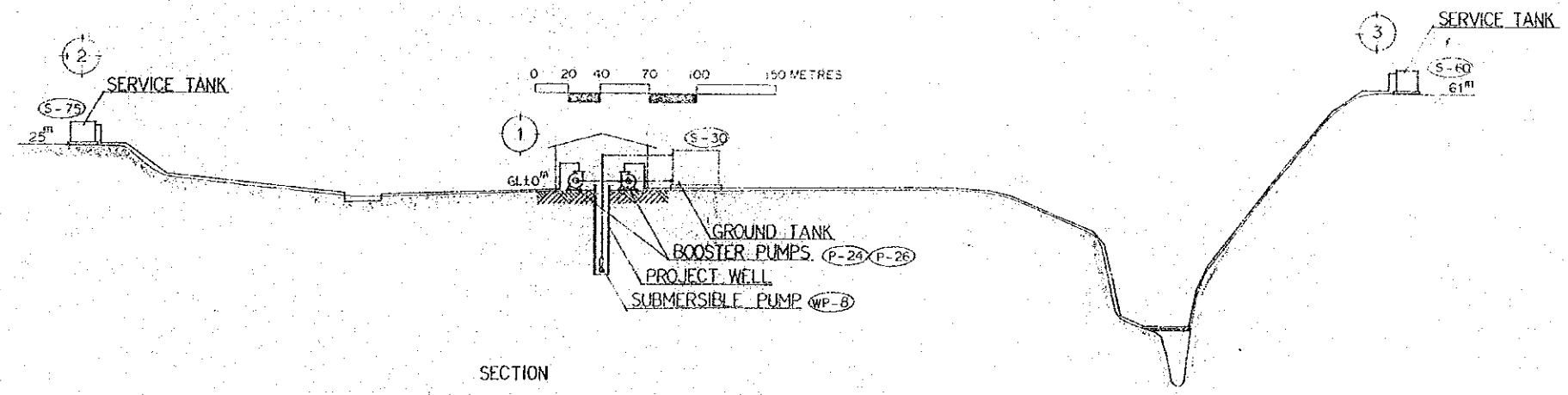
AL MAYDAN AL JUBAIL SITE



MINISTRY OF PUBLIC WORKS YEMEN ARAB REPUBLIC	
THE RURAL WATER SUPPLY PROJECT PART-II	
I-3: AL-MAYDAN, AL-JUBAIL	
DESIGNED BY: Pacific Consultants International	
DATE: MAY 80	SCALE 1: DRAWING No. 22
JAPAN INTERNATIONAL COOPERATION AGENCY, TOKYO, JAPAN	



HADAD, QAHFA SITE



SECTION

MINISTRY OF PUBLIC WORKS YEMEN ARAB REPUBLIC	
THE RURAL WATER SUPPLY PROJECT PART-II	
T-4A: HADAD QAHFA	
DESIGNED BY	Pacific Consultants International
DATE	MAY 80
SCALE	1:23
DRAWING No. 23	
JAPAN INTERNATIONAL COOPERATION AGENCY, TOKYO, JAPAN	