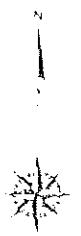
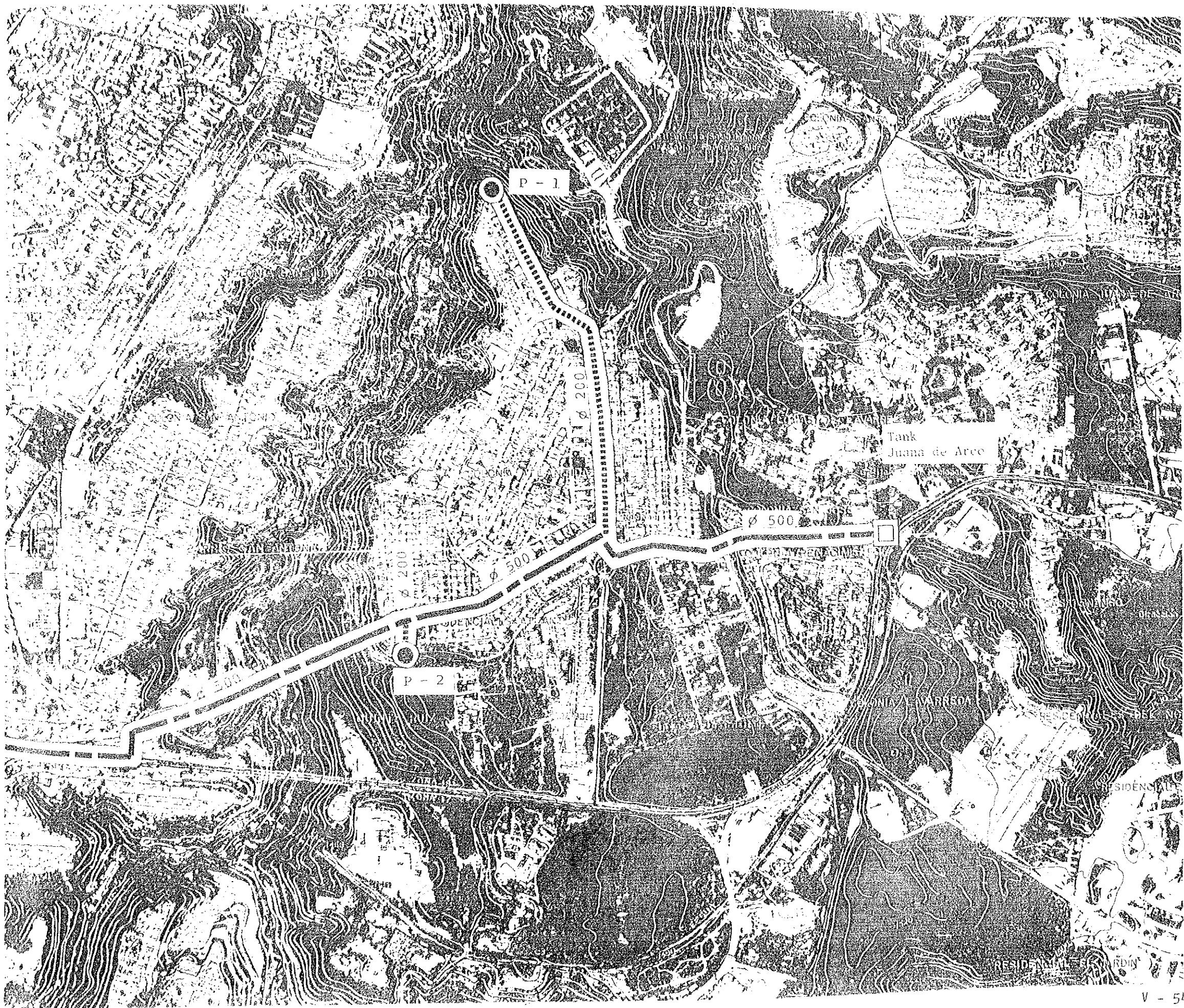




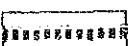
Legend:  
● (circle with dot)  
○ (circle)  
--- (dashed line)  
- - - - - (dash-dot line)  
- - - - - (dotted line)

Scale:  
1:50,000

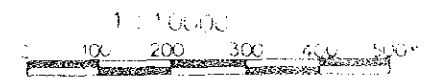
Map No. V-53



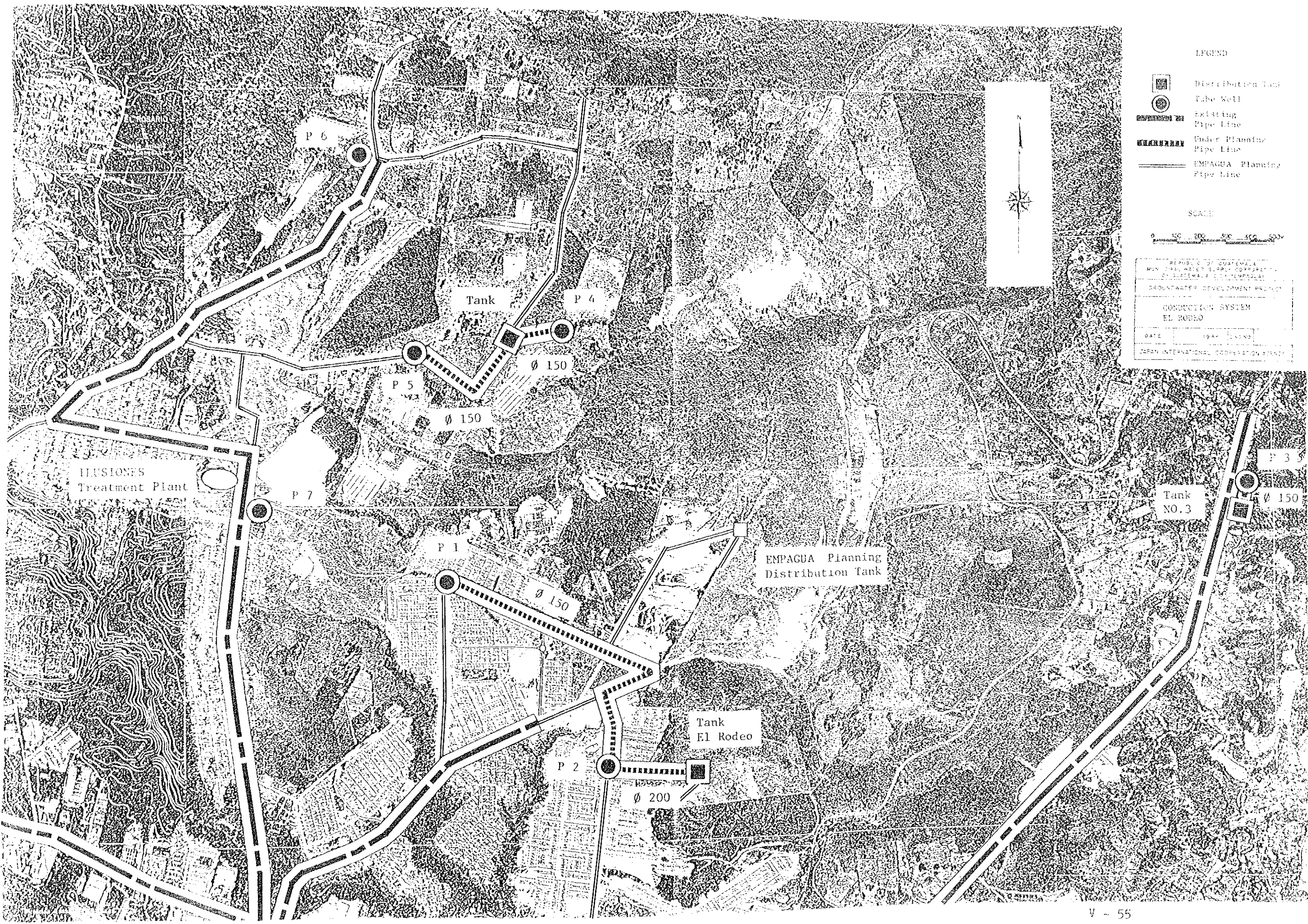
LEGEND

-  Tube Well
-  Existing Pipe Line
-  New Pipe Line

SCALE



REPUBLIC OF GUATEMALA MUNICIPAL WATER SUPPLY CORPORATION OF GUATEMALA CITY (EMPAGUAJ)	
GROUNDWATER DEVELOPMENT PROJECT	
CONDUCTION SYSTEM LAVARREDA	
DATE	1988
JAPAN INTERNATIONAL COOPERATION AGENCY	



- LEGEND
- Distribution Tank
  - Tube Well
  - Existing Pipe Line
  - Under Planning Pipe Line
  - EMPAGUA Planning Pipe Line

SCALE

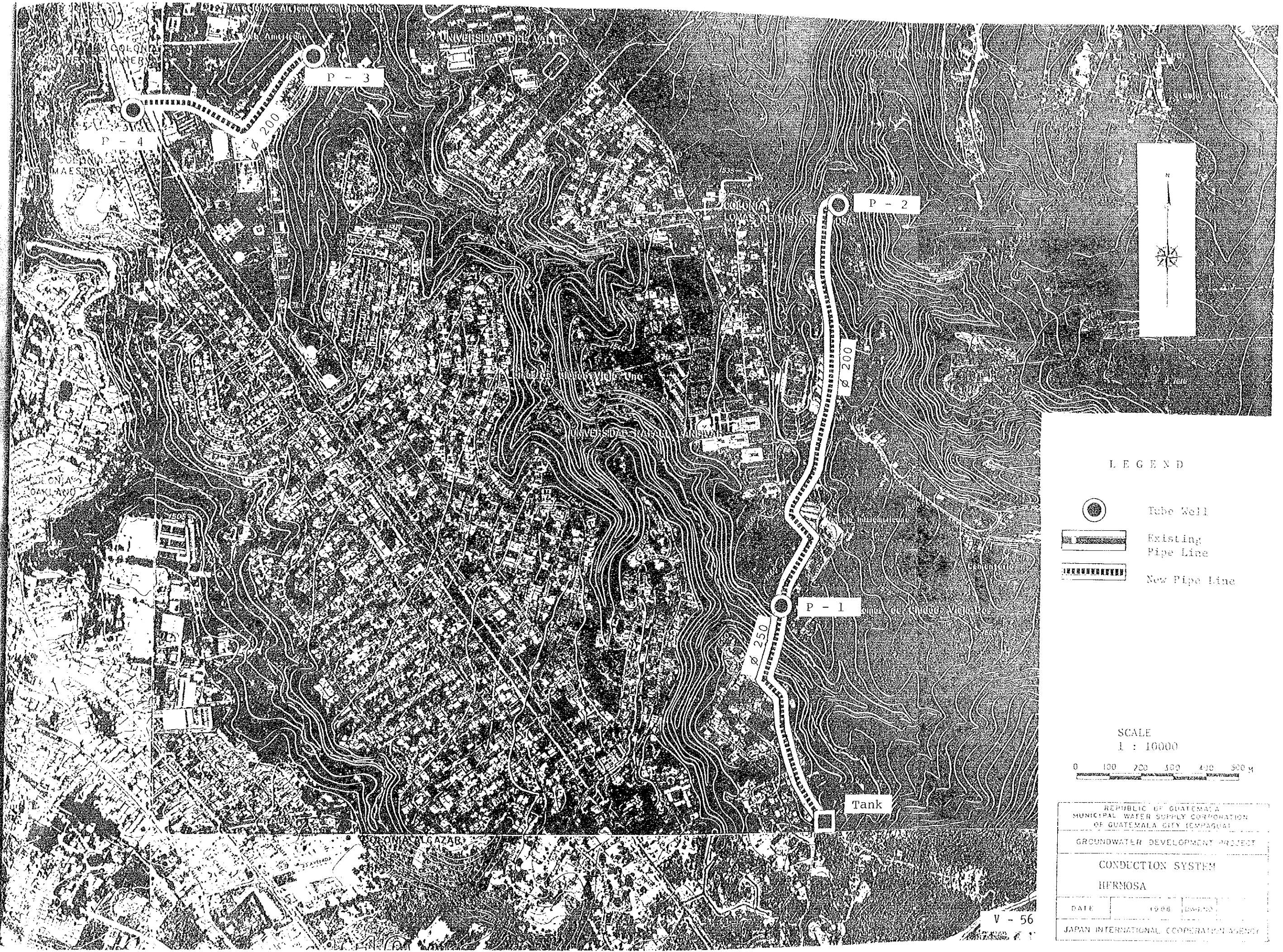
0 100 200 300 400 500

REPUBLIC OF GUATEMALA  
 MUNICIPAL WATER SUPPLY DEPARTMENT  
 DEPARTAMENTO DE EMPAGUA  
 GROUNDWATER DEVELOPMENT PROJECT



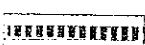
CONDUCTION SYSTEM  
 EL RODEO

DATE 1944

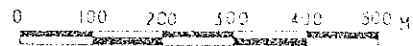
JAPAN INTERNATIONAL COOPERATION AGENCY



LEGEND

-  Tube Well
-  Existing Pipe Line
-  New Pipe Line

SCALE  
1 : 10000

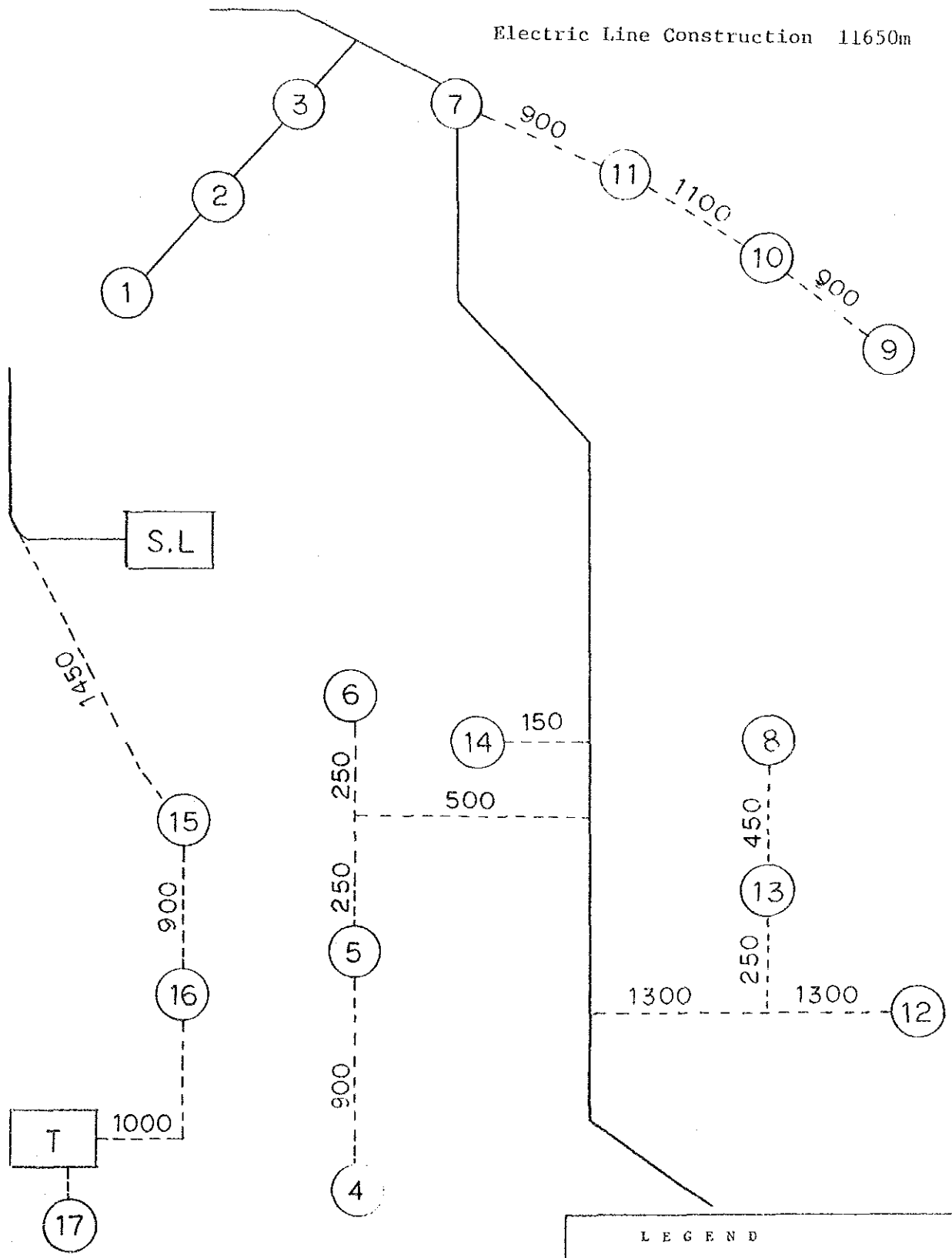


REPUBLIC OF GUATEMALA	
MUNICIPAL WATER SUPPLY CORPORATION	
OF GUATEMALA CITY (EMBAQUA)	
GROUNDWATER DEVELOPMENT PROJECT	
CONDUCTION SYSTEM	
IFRMOSA	
DATE	1998
DRAWN	
JAPAN INTERNATIONAL COOPERATION AGENCY	



CANALITOS

Electric Line Construction 11650m



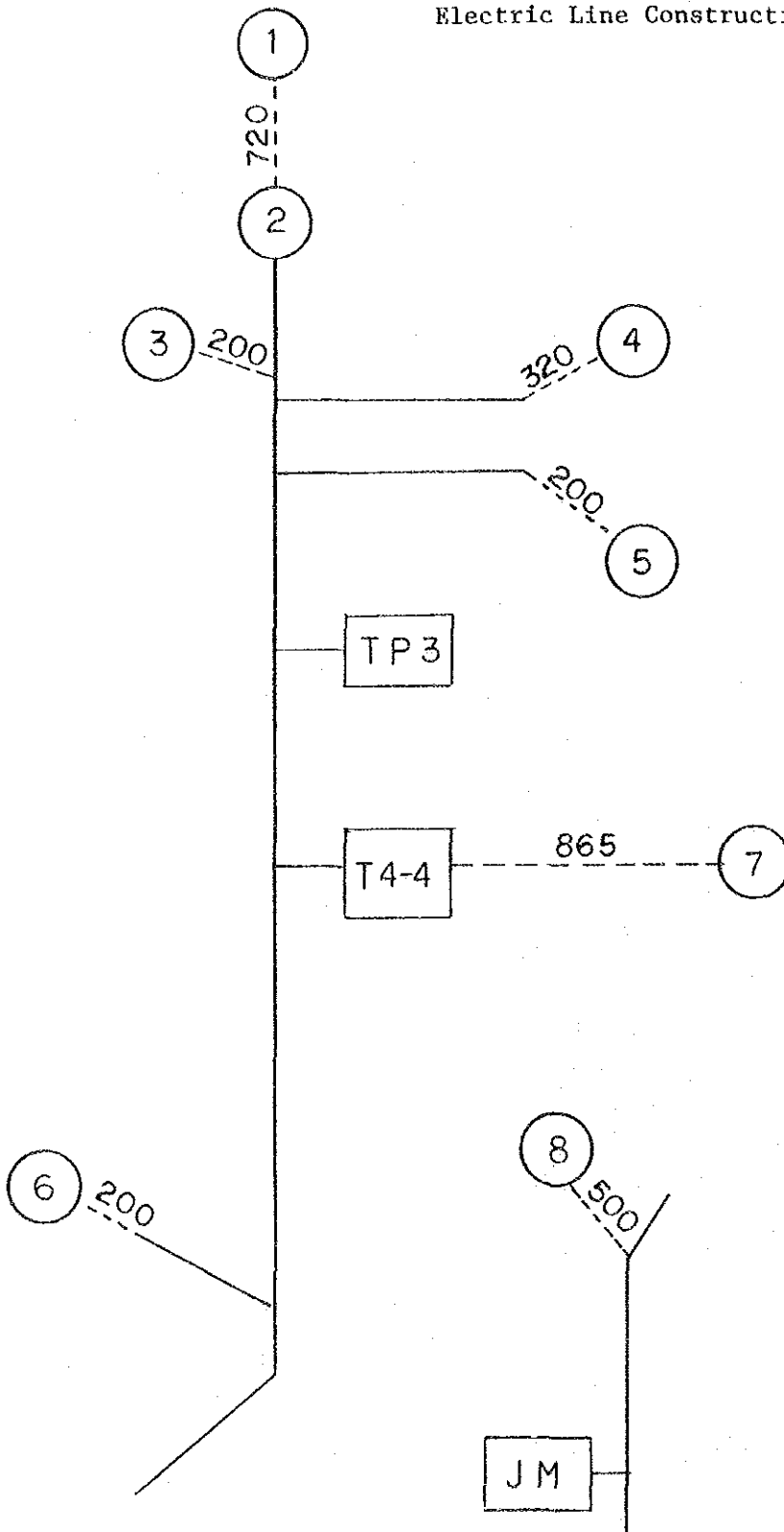
LEGEND

③	-----	Well NO.
JA	-----	Tank
———		Existing Electric Line
-----		Electric Line Construction

FIG. WIRING FOR POWER

NORTE

Electric Line Construction 3005m



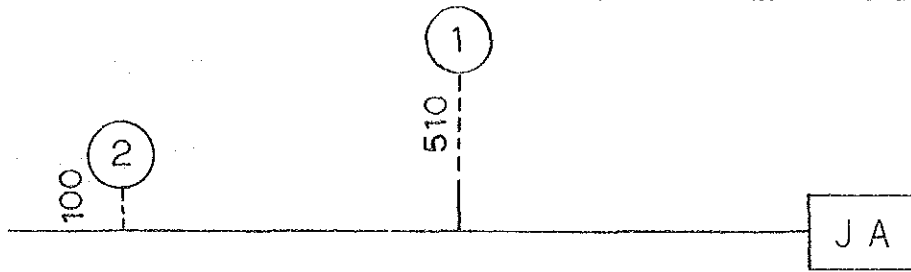
WIRING FOR POWER

L E G E N D	
③	----- Well NO.
JA	----- Tank
—	Existing Electric Line
- - - -	Electric Line Construction



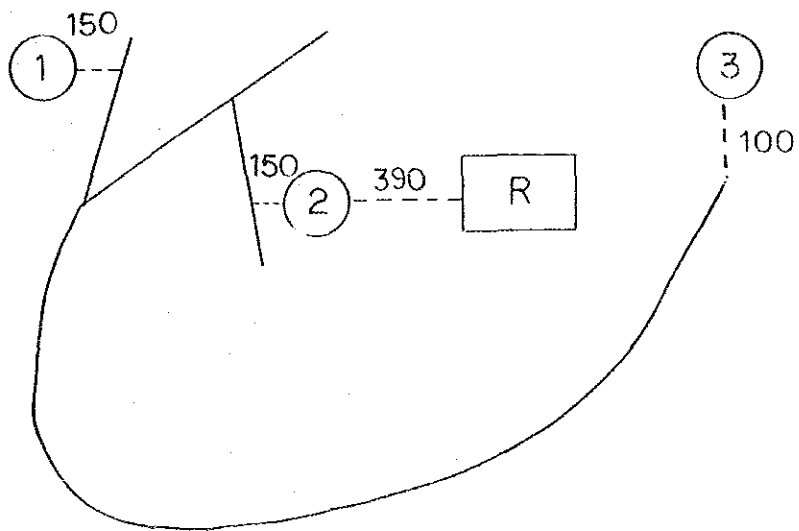
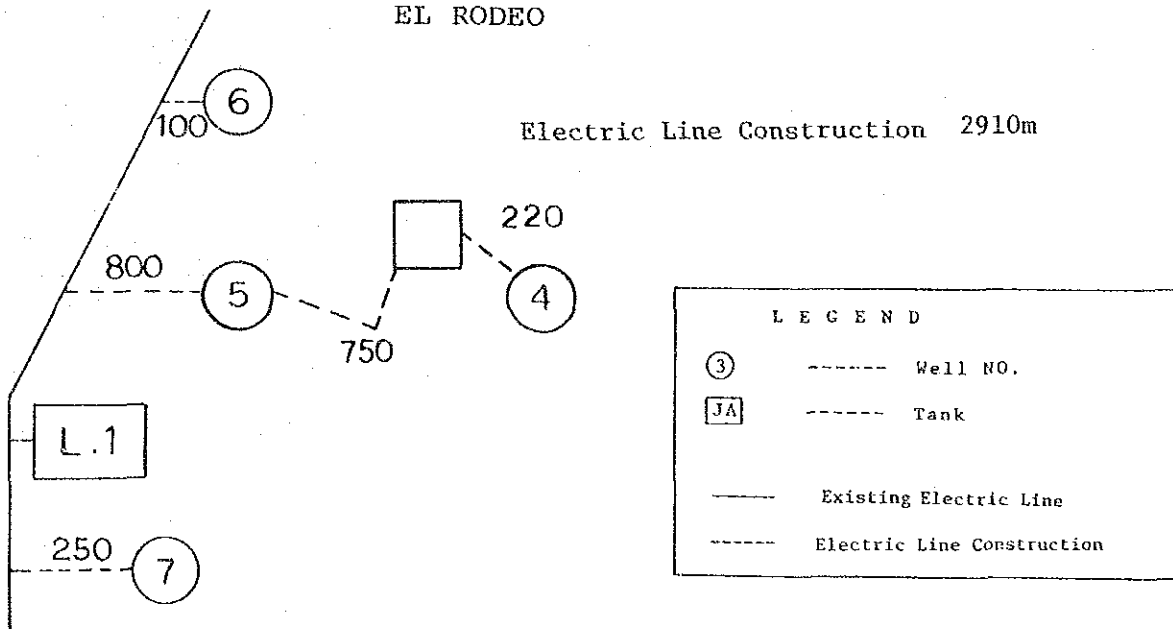
LAVARREDA

Electric Line Construction 610m



EL RODEO

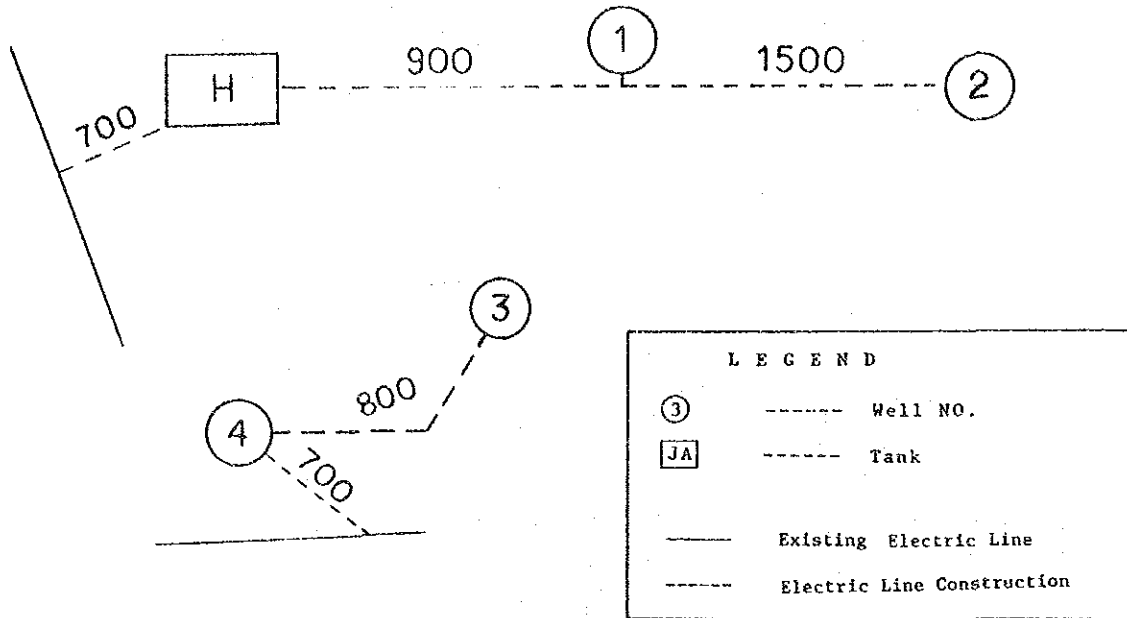
Electric Line Construction 2910m



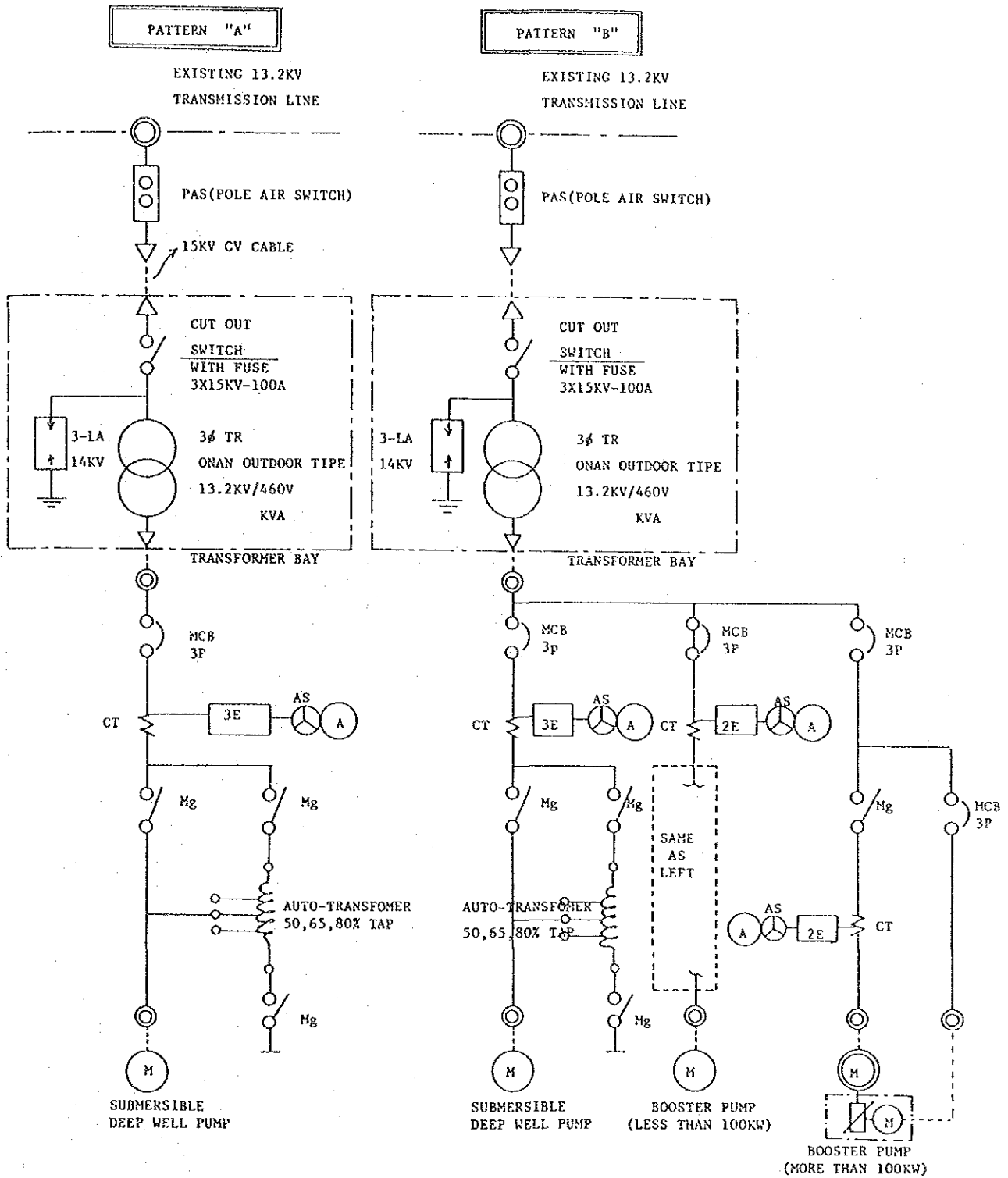
WIRING FOR POWER

HERMOSA

Electric Line Construction 4600m



WIRING FOR POWER



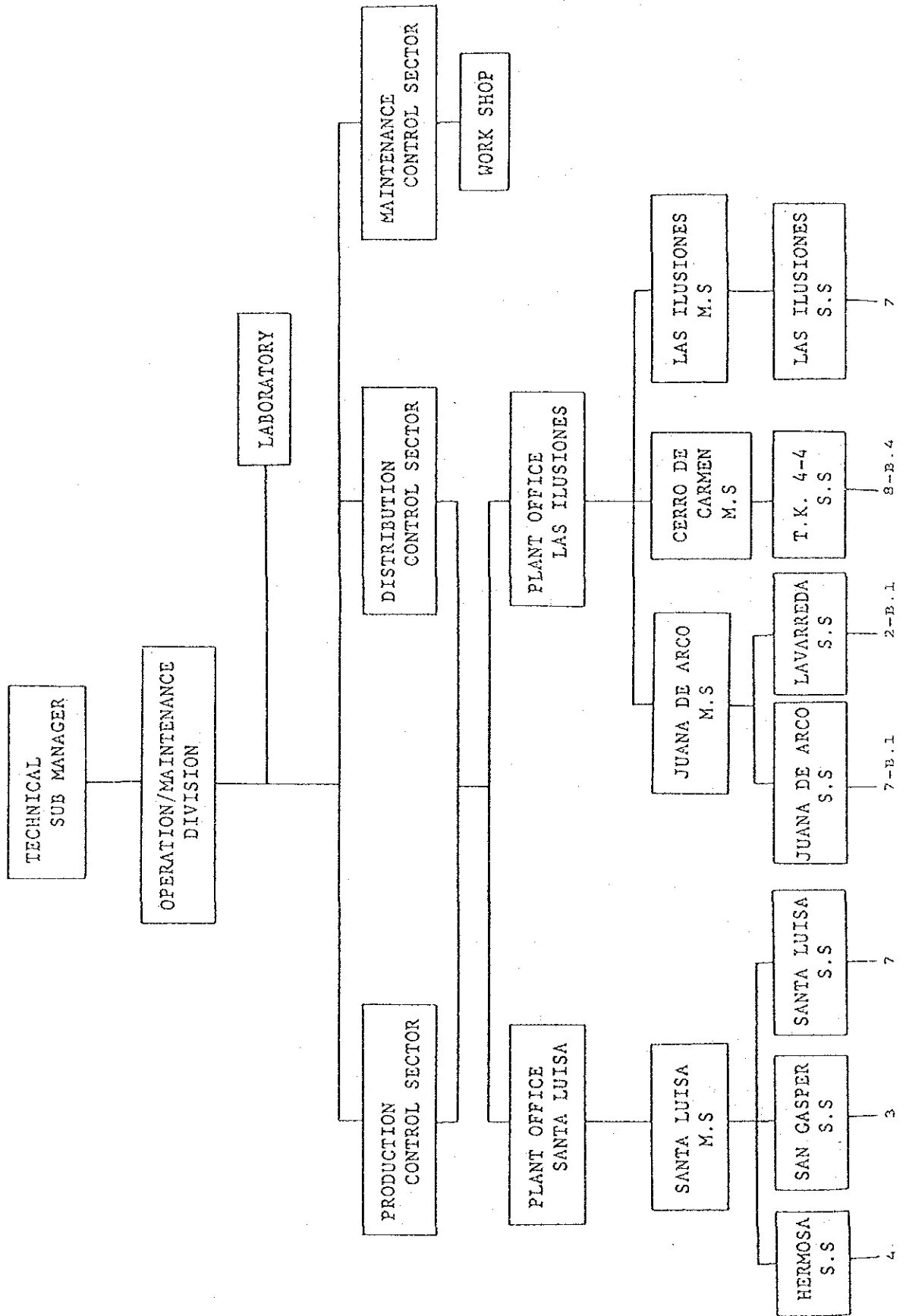
**LEGEND**

SYMBOL	NAME
PAS	POLE AIR SWITCH
LA	LIGHTING ARRESTER
TR	TRANSFORMER
CT	CURRENT TRANSFORMER
MCB	MOLDED CASE CIRCUIT BREAKER
3E	THREE ELEMENT PROTECTION RELAY
Mg	ELECTROMAGNETIC CONTACTOR
A	AMMETER
AS	AMMETER SELECTOR SWITCH
M	MOTOR

FIG.5-6 TYPICAL ONE LINE DIAGRAM

ORGANIZATION CHART FOR OPERATION AND MAINTENANCE

FIG. 6-3

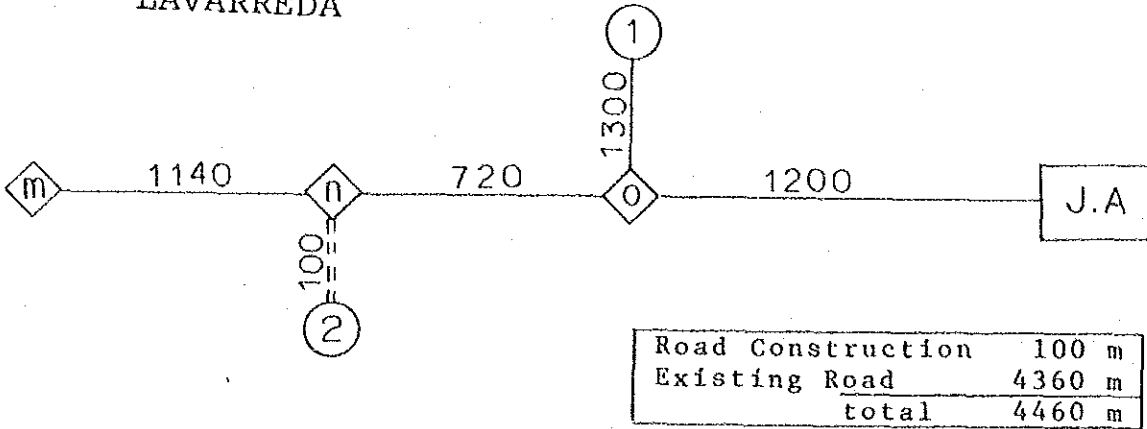








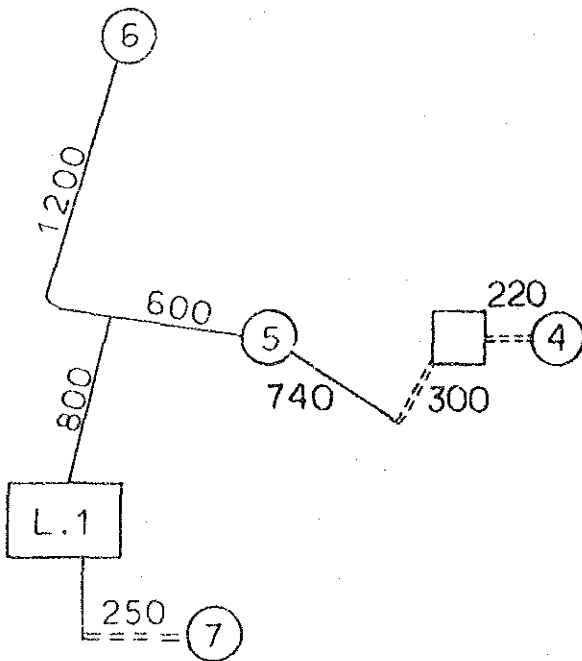
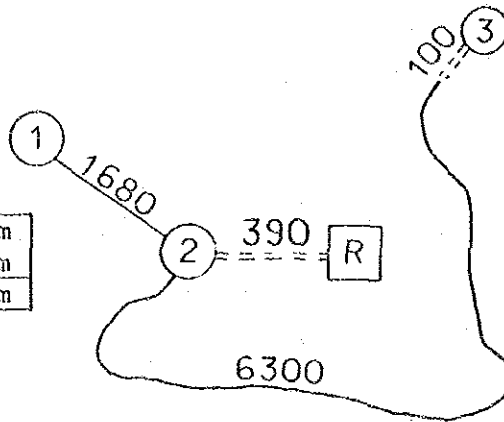
LAVARREDA



EL RODEO

(1)

Road Construction	490 m
Existing Road	7980 m
<b>total</b>	<b>8470 m</b>



(2)

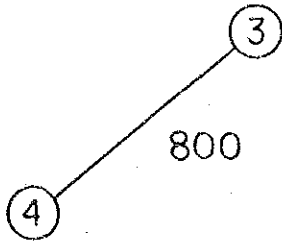
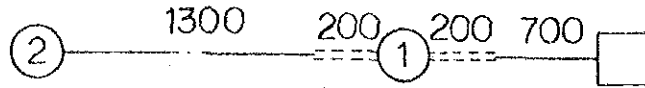
Road Construction	770 m
Existing Road	3340 m
<b>total</b>	<b>4110 m</b>

LEGEND

- ③ ----- Well NO.
- ◇ ----- Junction
- JA ----- Tank
- Existing Road
- ==== Road Rehabilitation
- ===== Road Construction



HERMOSA



Road Construction	400 m
Existing Road	2800 m
<b>total</b>	<b>3200 m</b>

LEGEND	
③	----- Well NO.
⬠	----- Junction
JA	----- Tank
————	Existing Road
====	Road Rehabilitation
=====	Road Construction

	Existing Road	Road Rehabilitation	Road Construction	Total
CANALITOS (1)	9110 m	1450 m		10560 m
(2)	4660	-	250 m	4910
(3)	3500	-	50	3550
NORTE	16070	-	1120	17190
LAVARREDA	4360	-	100	4460
EL RODEO (1)	7980	-	490	8470
(2)	3340	-	770	4110
HERMOSA	2800	-	400	3200
<b>TOTAL</b>	<b>51820</b>	<b>1450</b>	<b>3180</b>	<b>56450</b>

