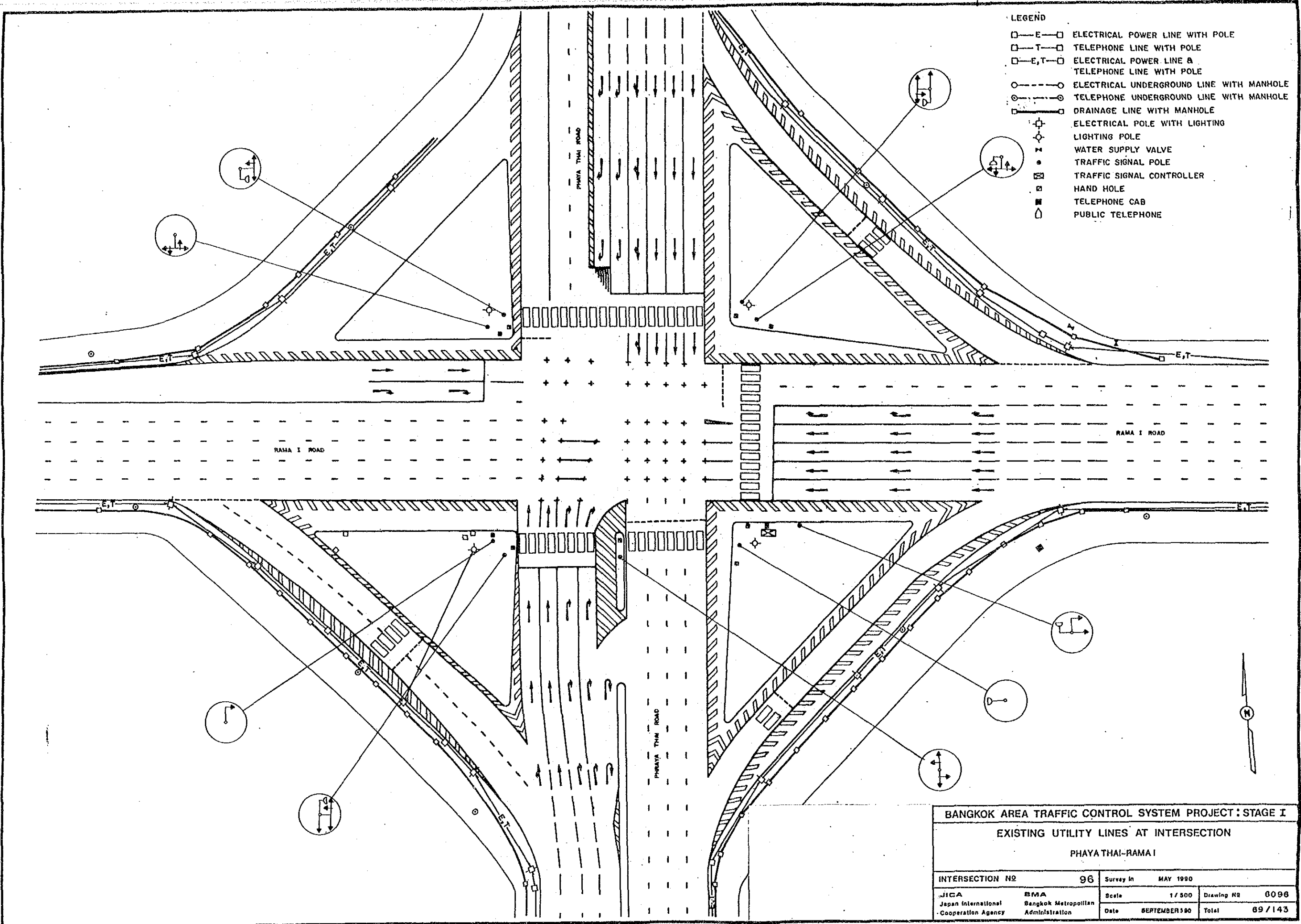


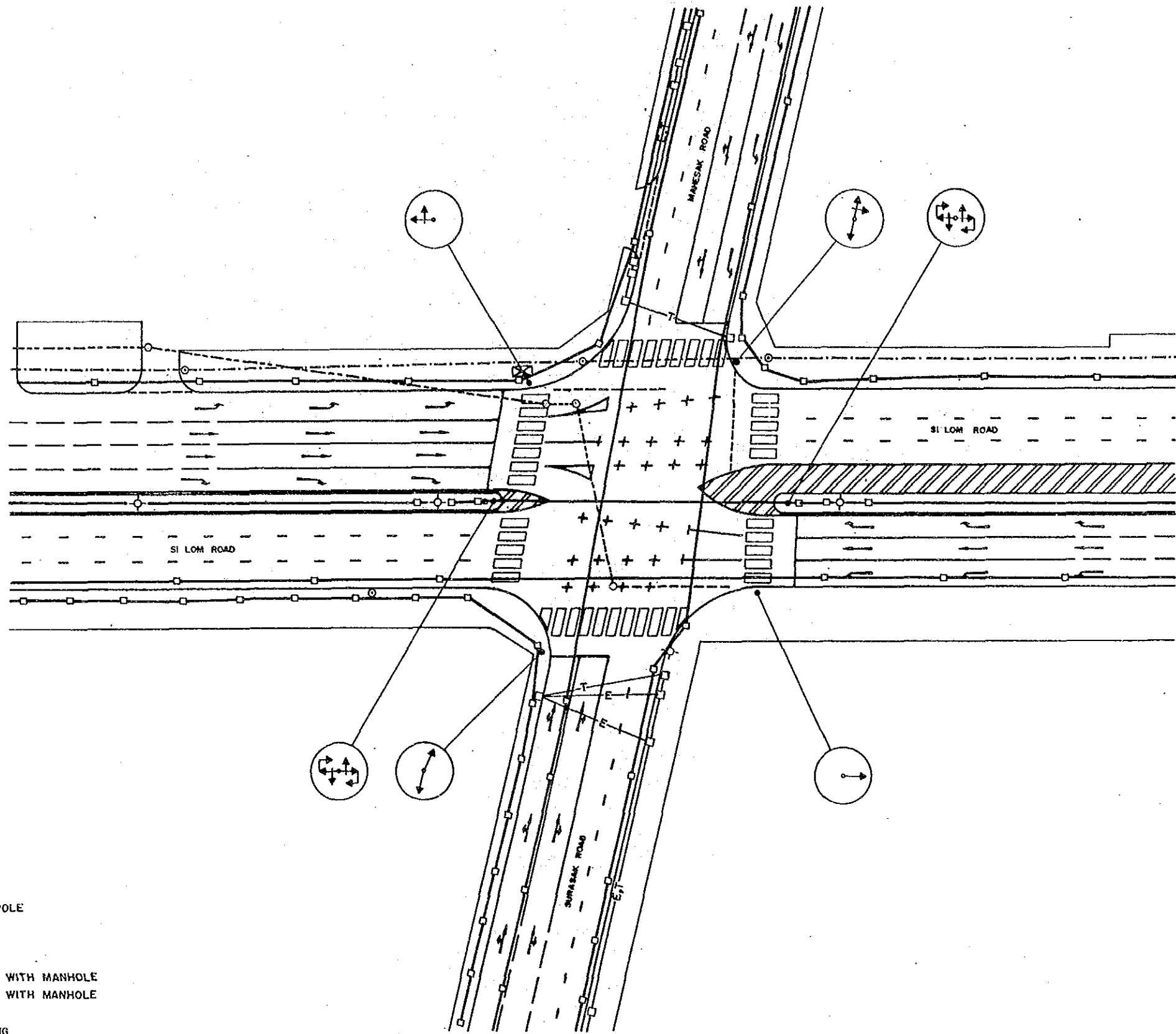
- LEGEND**
- E—□ ELECTRICAL POWER LINE WITH POLE
 - T—□ TELEPHONE LINE WITH POLE
 - E,T—□ ELECTRICAL POWER LINE & TELEPHONE LINE WITH POLE
 - ELECTRICAL UNDERGROUND LINE WITH MANHOLE
 - TELEPHONE UNDERGROUND LINE WITH MANHOLE
 - DRAINAGE LINE WITH MANHOLE
 - ⊕ ELECTRICAL POLE WITH LIGHTING
 - ⊙ LIGHTING POLE
 - ⊕ WATER SUPPLY VALVE
 - ⊙ TRAFFIC SIGNAL POLE
 - ⊕ TRAFFIC SIGNAL CONTROLLER
 - ⊙ HAND HOLE
 - ⊕ TELEPHONE CAB
 - ⊙ PUBLIC TELEPHONE

BANGKOK AREA TRAFFIC CONTROL SYSTEM PROJECT: STAGE I			
EXISTING UTILITY LINES AT INTERSECTION			
TRI PHET-PHAHURAT			
INTERSECTION NR	94	Survey In	MAY 1990
JICA Japan International Cooperation Agency	EMTA Bangkok Metropolitan Administration	Scale	1 / 500
		Drawing No	6094
		Date	SEPTEMBER 89
		Total	68 / 143



- LEGEND**
- E—□ ELECTRICAL POWER LINE WITH POLE
 - T—□ TELEPHONE LINE WITH POLE
 - E,T—□ ELECTRICAL POWER LINE & TELEPHONE LINE WITH POLE
 - ELECTRICAL UNDERGROUND LINE WITH MANHOLE
 - TELEPHONE UNDERGROUND LINE WITH MANHOLE
 - DRAINAGE LINE WITH MANHOLE
 - ⊕ ELECTRICAL POLE WITH LIGHTING
 - ⊙ LIGHTING POLE
 - ⊙ WATER SUPPLY VALVE
 - ⊙ TRAFFIC SIGNAL POLE
 - ⊙ TRAFFIC SIGNAL CONTROLLER
 - ⊙ HAND HOLE
 - ⊙ TELEPHONE CAB
 - ⊙ PUBLIC TELEPHONE

BANGKOK AREA TRAFFIC CONTROL SYSTEM PROJECT: STAGE I			
EXISTING UTILITY LINES AT INTERSECTION			
PHAYA THAI-RAMA I			
INTERSECTION NO	96	Survey In	MAY 1990
JICA Japan International Cooperation Agency	BMA Bangkok Metropolitan Administration	Scale	1 / 500
		Date	SEPTEMBER 90
		Drawing No	6096
		Total	69 / 143



LEGEND

- E—□ ELECTRICAL POWER LINE WITH POLE
- T—□ TELEPHONE LINE WITH POLE
- E,T—□ ELECTRICAL POWER LINE & TELEPHONE LINE WITH POLE
- ELECTRICAL UNDERGROUND LINE WITH MANHOLE
- TELEPHONE UNDERGROUND LINE WITH MANHOLE
- DRAINAGE LINE WITH MANHOLE
- ⊕ ELECTRICAL POLE WITH LIGHTING
- ⊕ LIGHTING POLE
- ⊕ WATER SUPPLY VALVE
- TRAFFIC SIGNAL POLE
- ⊠ TRAFFIC SIGNAL CONTROLLER
- ⊠ HAND HOLE
- TELEPHONE CAB
- △ PUBLIC TELEPHONE

BANGKOK AREA TRAFFIC CONTROL SYSTEM PROJECT : STAGE I

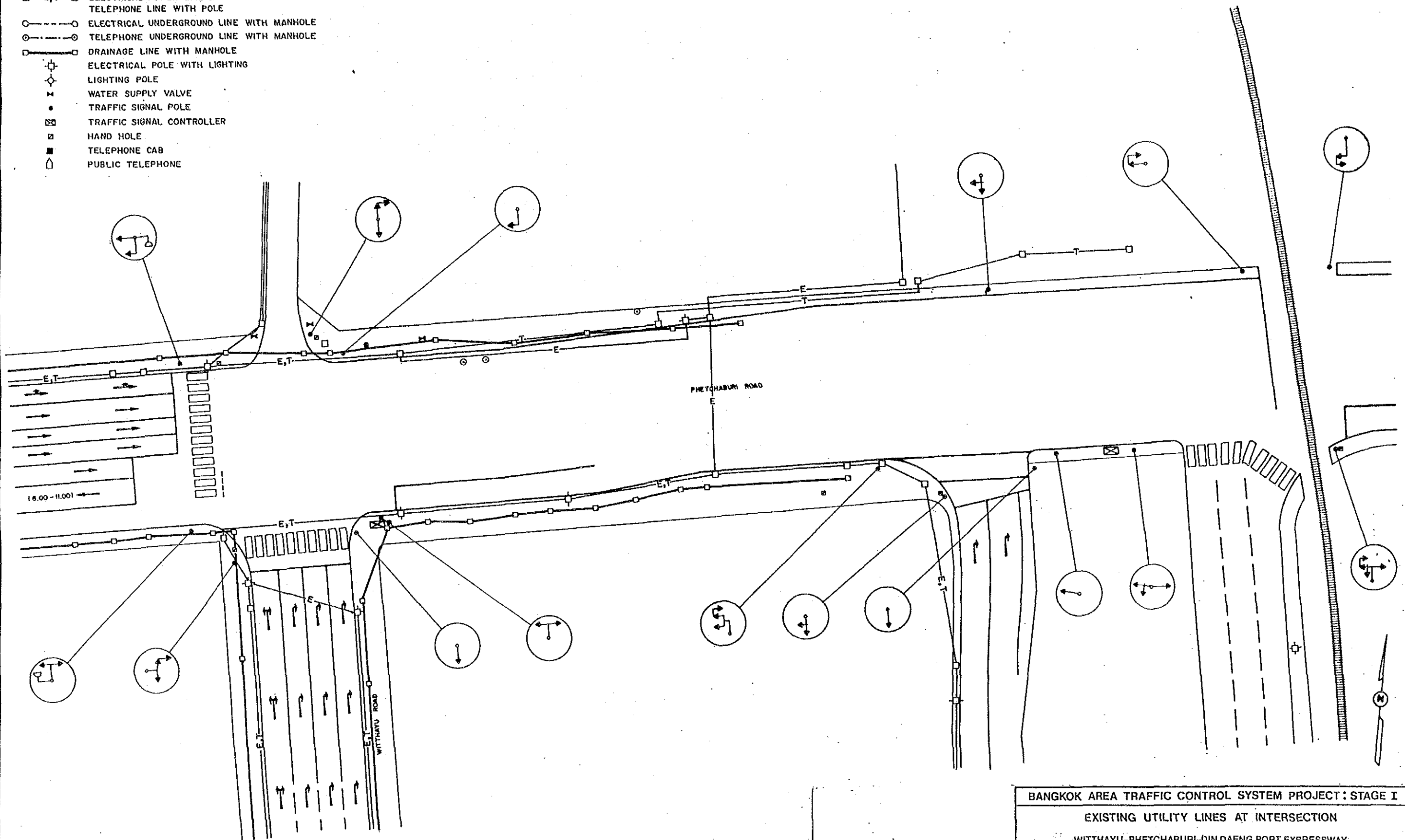
EXISTING UTILITY LINES AT INTERSECTION

SI LOM-SURASAK-MAHESAK

INTERSECTION NO	98	Survey in	MAY 1990
JICA Japan International Cooperation Agency	BMA Bangkok Metropolitan Administration	Scale	1 / 500
		Drawing #2	8098
		Date	SEPTEMBER 1990
		Total	70 / 143

LEGEND

- E—□ ELECTRICAL POWER LINE WITH POLE
- T—□ TELEPHONE LINE WITH POLE
- E,T—□ ELECTRICAL POWER LINE & TELEPHONE LINE WITH POLE
- ELECTRICAL UNDERGROUND LINE WITH MANHOLE
- TELEPHONE UNDERGROUND LINE WITH MANHOLE
- DRAINAGE LINE WITH MANHOLE
- ⊕ ELECTRICAL POLE WITH LIGHTING
- ◇ LIGHTING POLE
- ⊕ WATER SUPPLY VALVE
- TRAFFIC SIGNAL POLE
- ⊕ TRAFFIC SIGNAL CONTROLLER
- ⊕ HAND HOLE
- TELEPHONE CAB
- ⌚ PUBLIC TELEPHONE

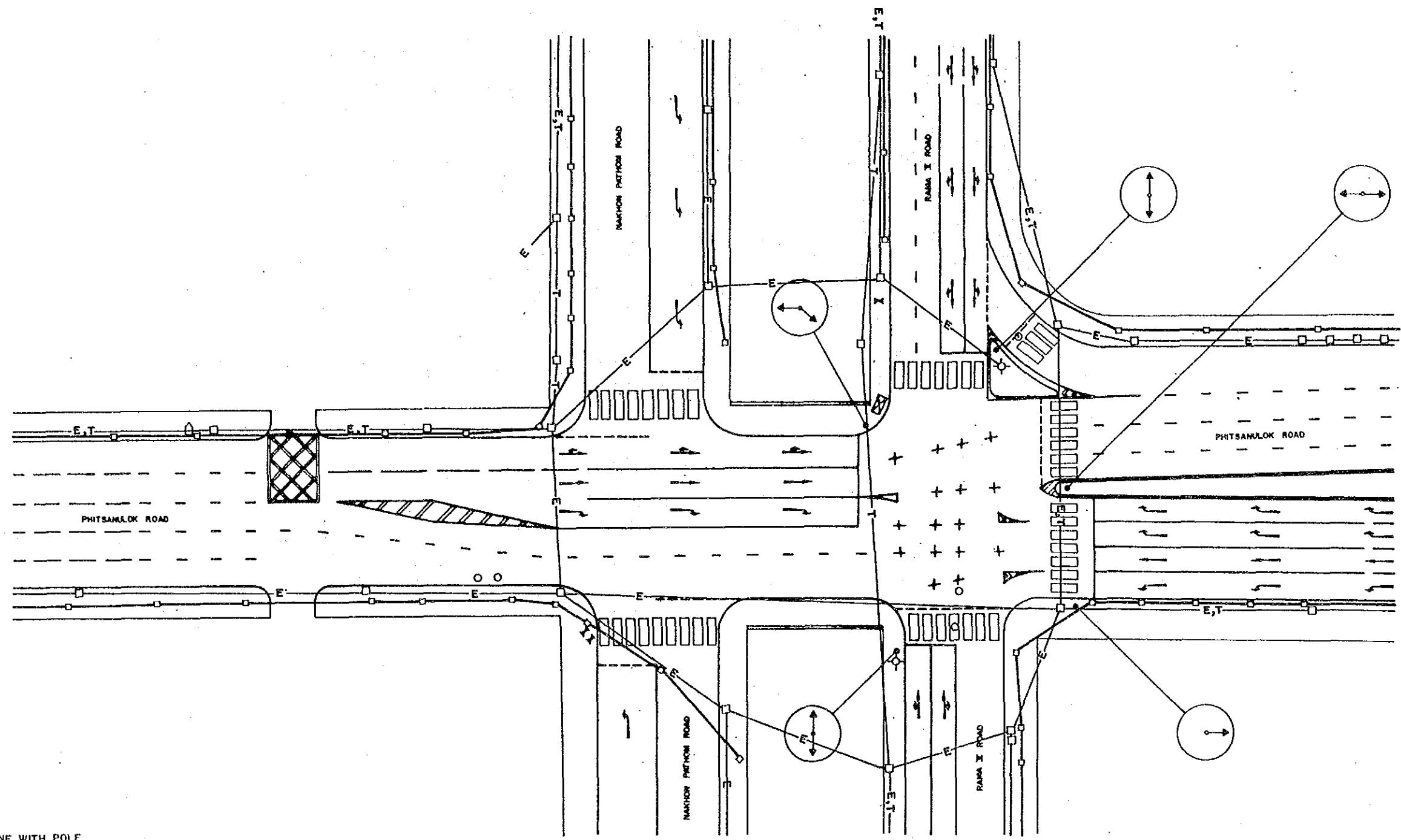


BANGKOK AREA TRAFFIC CONTROL SYSTEM PROJECT : STAGE I

EXISTING UTILITY LINES AT INTERSECTION

WITTHAYU-PHETCHABURI-DIN DAENG PORT EXPRESSWAY

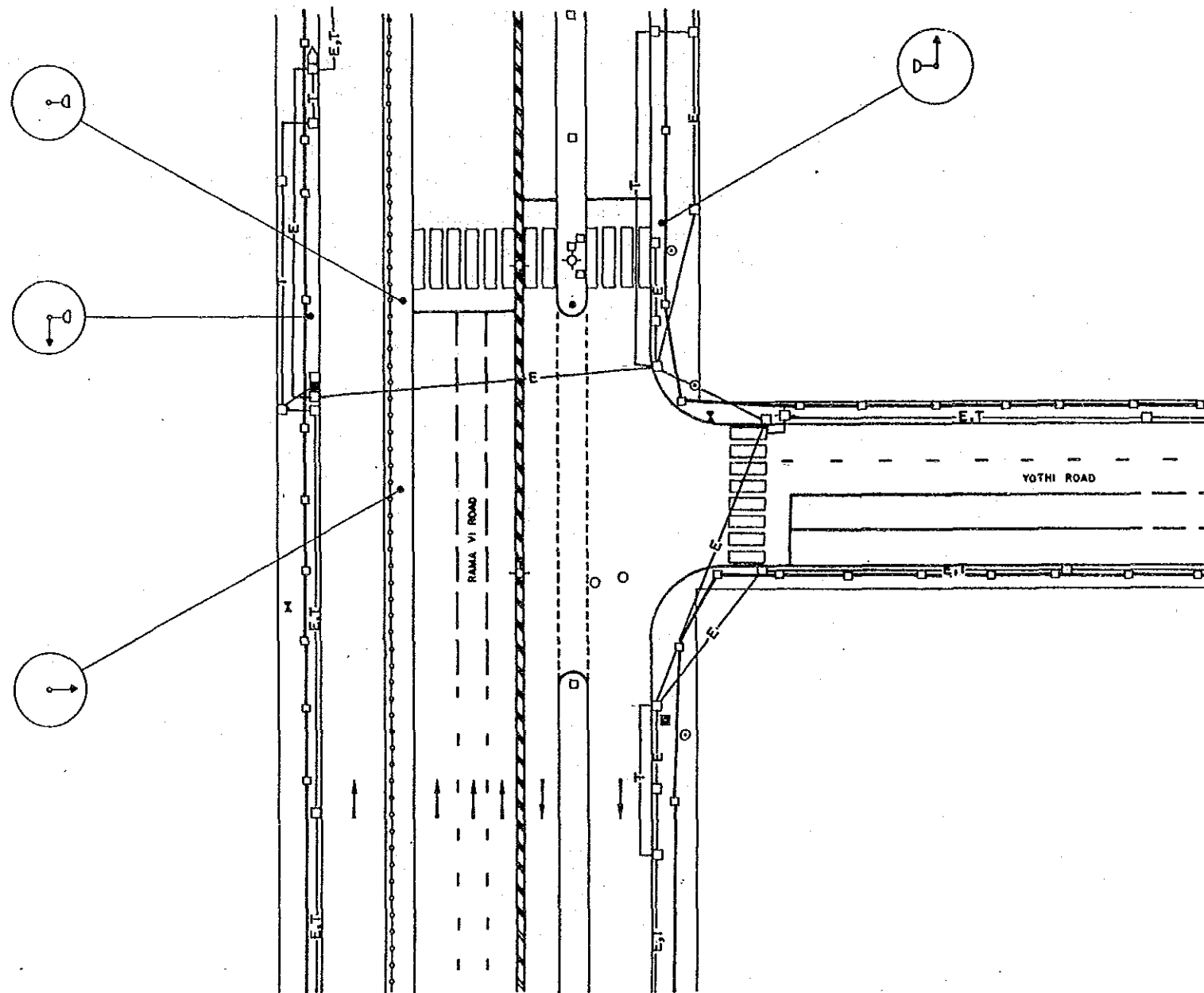
INTERSECTION NO	99	Survey In	MAY 1990
JICA Japan International Cooperation Agency	BMA Bangkok Metropolitan Administration	Scale	1 / 500
		Date	(SEPTEMBER/90)
		Drawing NO	6099
		Total	71 / 143



LEGEND

- E—□ ELECTRICAL POWER LINE WITH POLE
- T—□ TELEPHONE LINE WITH POLE
- E,T—□ ELECTRICAL POWER LINE & TELEPHONE LINE WITH POLE
- ELECTRICAL UNDERGROUND LINE WITH MANHOLE
- TELEPHONE UNDERGROUND LINE WITH MANHOLE
- DRAINAGE LINE WITH MANHOLE
- ⊕ ELECTRICAL POLE WITH LIGHTING
- ⊕ LIGHTING POLE
- ⊕ WATER SUPPLY VALVE
- TRAFFIC SIGNAL POLE
- ⊠ TRAFFIC SIGNAL CONTROLLER
- ⊠ HAND HOLE
- ⊠ TELEPHONE CAB
- ⊠ PUBLIC TELEPHONE

BANGKOK AREA TRAFFIC CONTROL SYSTEM PROJECT : STAGE I			
EXISTING UTILITY LINES AT INTERSECTION			
RAMA V-PHITSANULOK			
INTERSECTION NO	101	Survey In	MAY 1990
JICA Japan International Cooperation Agency	BMA Bangkok Metropolitan Administration	Scale	1 / 500
		Date	(SEPTEMBER) 90
		Drawing No	8101
		Total	72 / 143



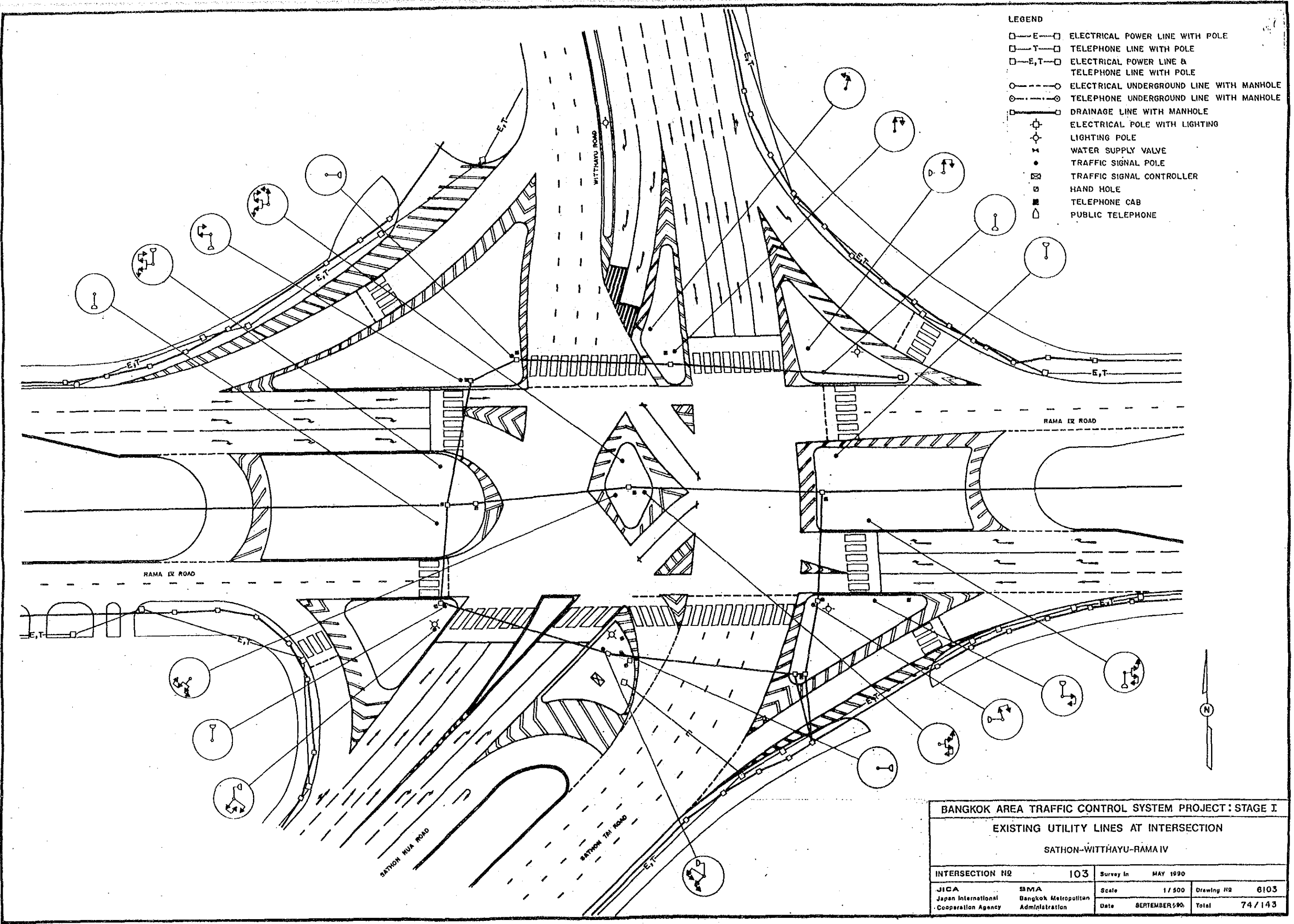
LEGEND

- E—□ ELECTRICAL POWER LINE WITH POLE
- T—□ TELEPHONE LINE WITH POLE
- E,T—□ ELECTRICAL POWER LINE & TELEPHONE LINE WITH POLE
- ELECTRICAL UNDERGROUND LINE WITH MANHOLE
- TELEPHONE UNDERGROUND LINE WITH MANHOLE
- M— DRAINAGE LINE WITH MANHOLE
- ⊕ ELECTRICAL POLE WITH LIGHTING
- ⊙ LIGHTING POLE
- ⋈ WATER SUPPLY VALVE
- TRAFFIC SIGNAL POLE
- ⊠ TRAFFIC SIGNAL CONTROLLER
- ⊞ HAND HOLE
- TELEPHONE CAB
- △ PUBLIC TELEPHONE

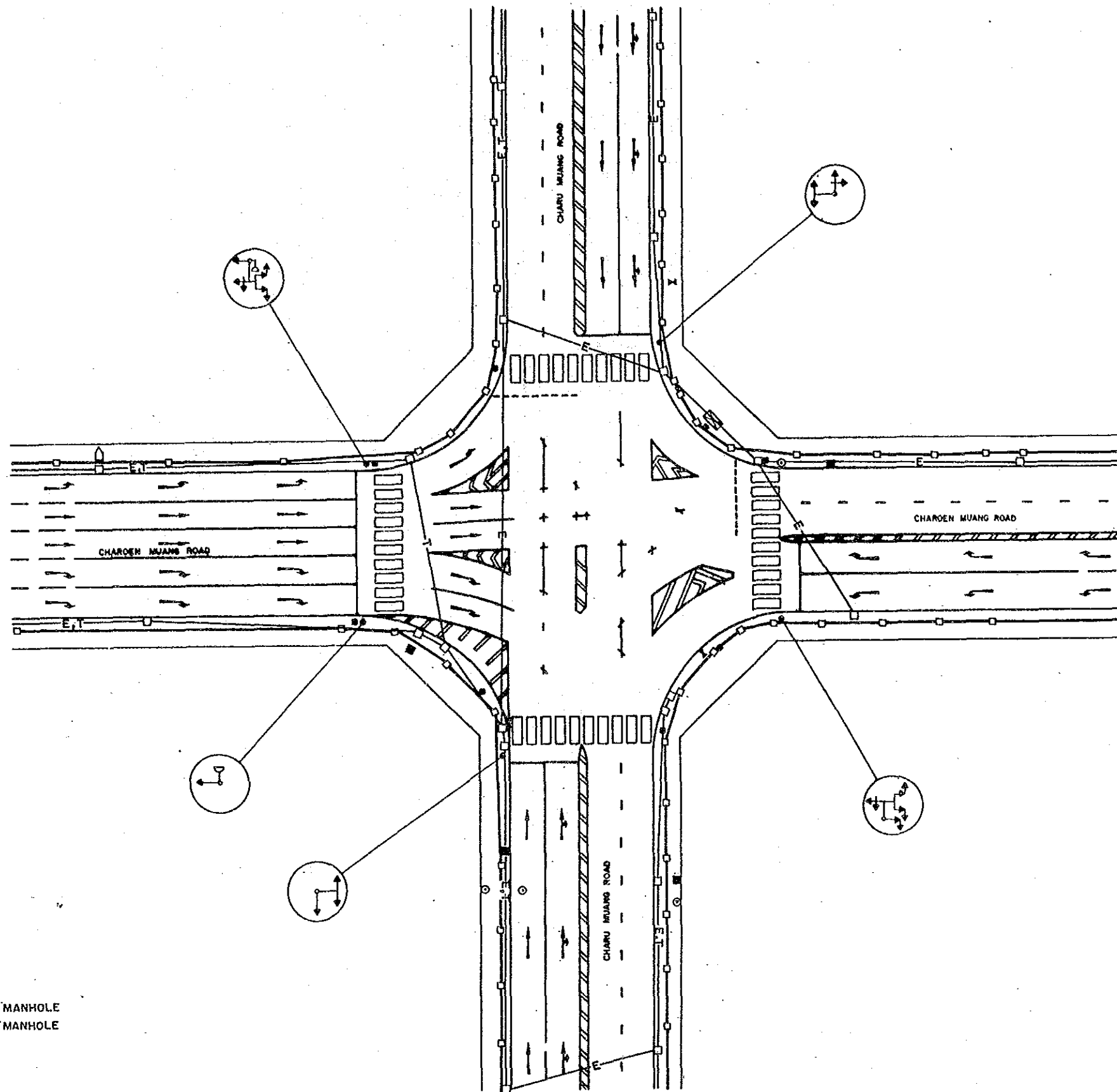
BANGKOK AREA TRAFFIC CONTROL SYSTEM PROJECT : STAGE I			
EXISTING UTILITY LINES AT INTERSECTION			
RAMA VI-YOTHI			
INTERSECTION NO	102	Survey In	MAY 1990
JICA Japan International Cooperation Agency	BMA Bangkok Metropolitan Administration	Scale	1 / 500
		Date	SEPTEMBER 1990
		Drawing NO	6102
		Total	73 / 143

LEGEND

- E—□ ELECTRICAL POWER LINE WITH POLE
- T—□ TELEPHONE LINE WITH POLE
- E,T—□ ELECTRICAL POWER LINE & TELEPHONE LINE WITH POLE
- ELECTRICAL UNDERGROUND LINE WITH MANHOLE
- TELEPHONE UNDERGROUND LINE WITH MANHOLE
- DRAINAGE LINE WITH MANHOLE
- ⊕ ELECTRICAL POLE WITH LIGHTING
- ⊙ LIGHTING POLE
- ⊕ WATER SUPPLY VALVE
- TRAFFIC SIGNAL POLE
- ⊕ TRAFFIC SIGNAL CONTROLLER
- ⊙ HAND HOLE
- ⊕ TELEPHONE CAB
- ⊙ PUBLIC TELEPHONE



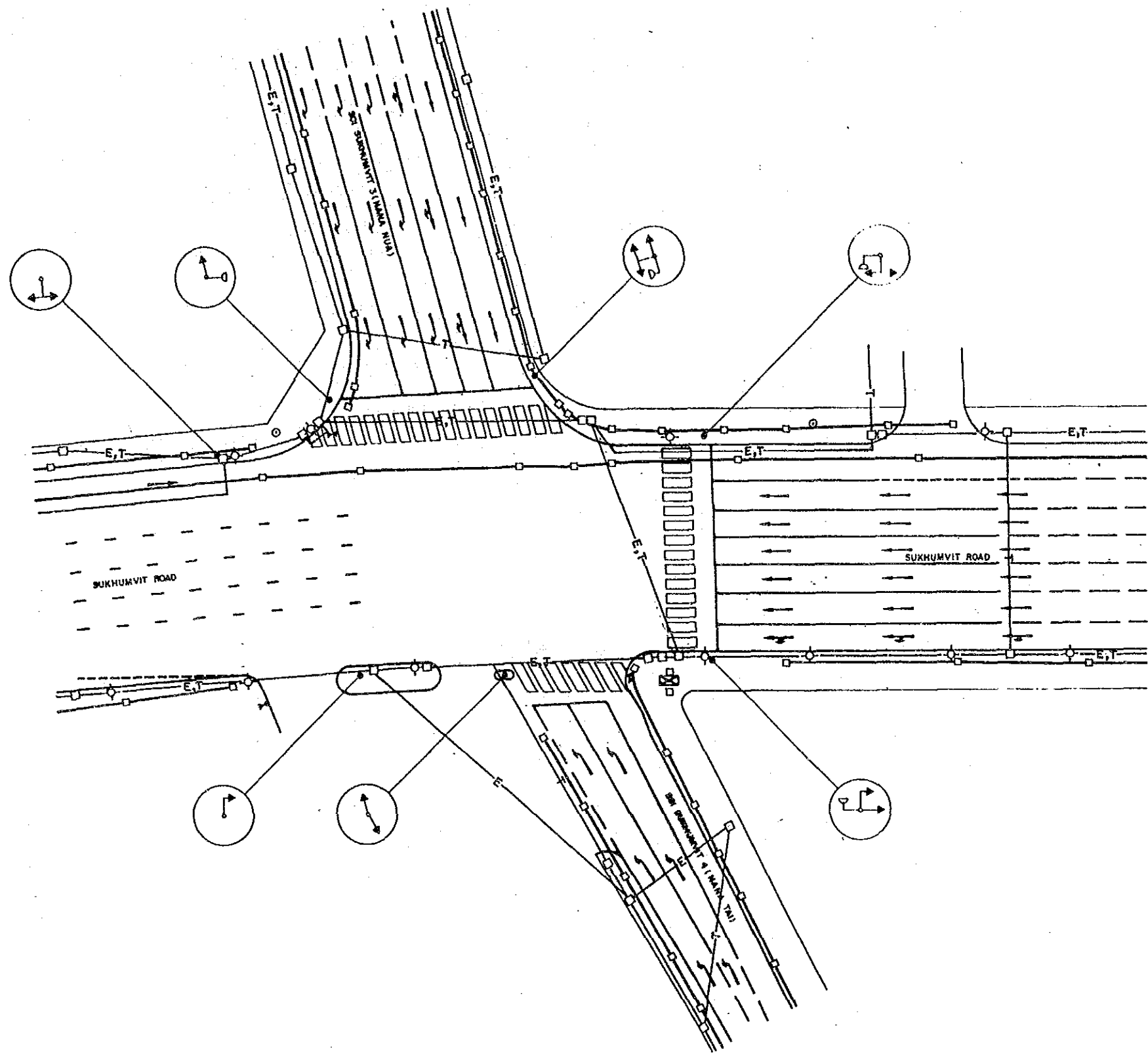
BANGKOK AREA TRAFFIC CONTROL SYSTEM PROJECT : STAGE I			
EXISTING UTILITY LINES AT INTERSECTION			
SATHON-WITTHAYU-RAMA IV			
INTERSECTION NO	103	Survey In	MAY 1990
JICA Japan International Cooperation Agency	SMA Bangkok Metropolitan Administration	Scale	1 / 500
		Date	SEPTEMBER 1990
		Drawing No	6103
		Total	74 / 143



LEGEND

- E—□ ELECTRICAL POWER LINE WITH POLE
- T—□ TELEPHONE LINE WITH POLE
- E,T—□ ELECTRICAL POWER LINE & TELEPHONE LINE WITH POLE
- ELECTRICAL UNDERGROUND LINE WITH MANHOLE
- TELEPHONE UNDERGROUND LINE WITH MANHOLE
- DRAINAGE LINE WITH MANHOLE
- ⊕ ELECTRICAL POLE WITH LIGHTING
- LIGHTING POLE
- ⋈ WATER SUPPLY VALVE
- ⊙ TRAFFIC SIGNAL POLE
- ⊞ TRAFFIC SIGNAL CONTROLLER
- ⊠ HAND HOLE
- TELEPHONE CAB
- ⓞ PUBLIC TELEPHONE

BANGKOK AREA TRAFFIC CONTROL SYSTEM PROJECT: STAGE I			
EXISTING UTILITY LINES AT INTERSECTION			
CHARU MUANG-CHAROEN MUANG			
INTERSECTION NO	104	Survey In	MAY 1990
JICA	BMA	Scale	1/500
Japan International	Bangkok Metropolitan	Drawing No	8104
Cooperation Agency	Administration	Date	SEPTEMBER 90
		Total	75 / 143



LEGEND

- E—□ ELECTRICAL POWER LINE WITH POLE
- T—□ TELEPHONE LINE WITH POLE
- E,T—□ ELECTRICAL POWER LINE & TELEPHONE LINE WITH POLE
- ELECTRICAL UNDERGROUND LINE WITH MANHOLE
- TELEPHONE UNDERGROUND LINE WITH MANHOLE
- DRAINAGE LINE WITH MANHOLE
- ⊕ ELECTRICAL POLE WITH LIGHTING
- ⊙ LIGHTING POLE
- ⊗ WATER SUPPLY VALVE
- TRAFFIC SIGNAL POLE
- ⊠ TRAFFIC SIGNAL CONTROLLER
- ⊞ HAND HOLE
- TELEPHONE CAB
- △ PUBLIC TELEPHONE

BANGKOK AREA TRAFFIC CONTROL SYSTEM PROJECT: STAGE I

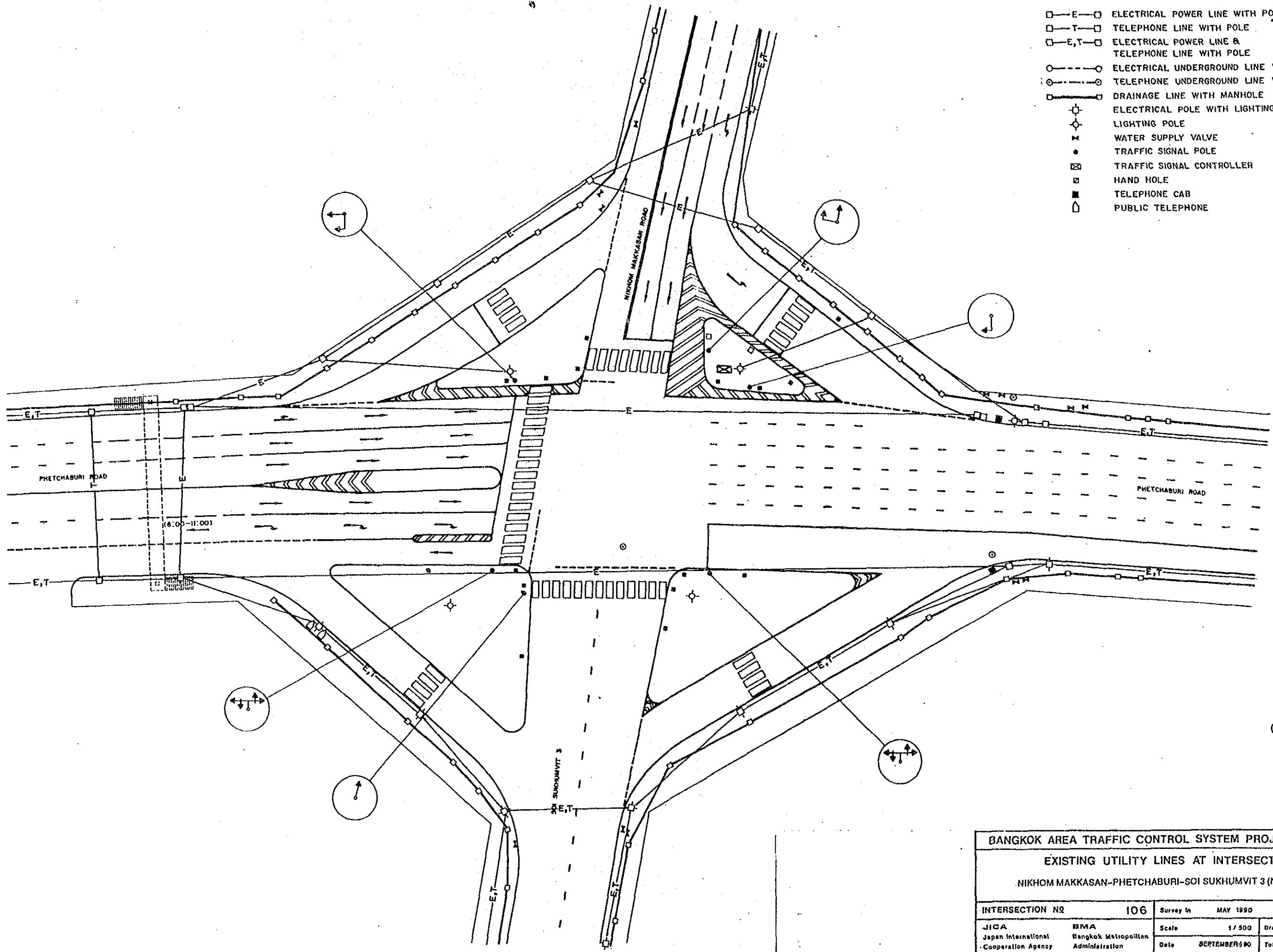
EXISTING UTILITY LINES AT INTERSECTION

SUKHUMVIT-SOI SUKHUMVIT 4 (NANA TAI)

INTERSECTION NO	105	Survey in	MAY 1990
JICA Japan International Cooperation Agency	BMA Bangkok Metropolitan Administration	Scale	1 / 500
		Date	SEPTEMBER 90
		Drawing No	0105
		Total	76 / 143

LEGEND

- E—□ ELECTRICAL POWER LINE WITH POLE
- T—□ TELEPHONE LINE WITH POLE
- E,T—□ ELECTRICAL POWER LINE & TELEPHONE LINE WITH POLE
- ELECTRICAL UNDERGROUND LINE WITH MANHOLE
- TELEPHONE UNDERGROUND LINE WITH MANHOLE
- DRAINAGE LINE WITH MANHOLE
- ⊕ ELECTRICAL POLE WITH LIGHTING
- ⊕ LIGHTING POLE
- × WATER SUPPLY VALVE
- TRAFFIC SIGNAL POLE
- ⊠ TRAFFIC SIGNAL CONTROLLER
- HAND HOLE
- TELEPHONE CAB
- ⏏ PUBLIC TELEPHONE

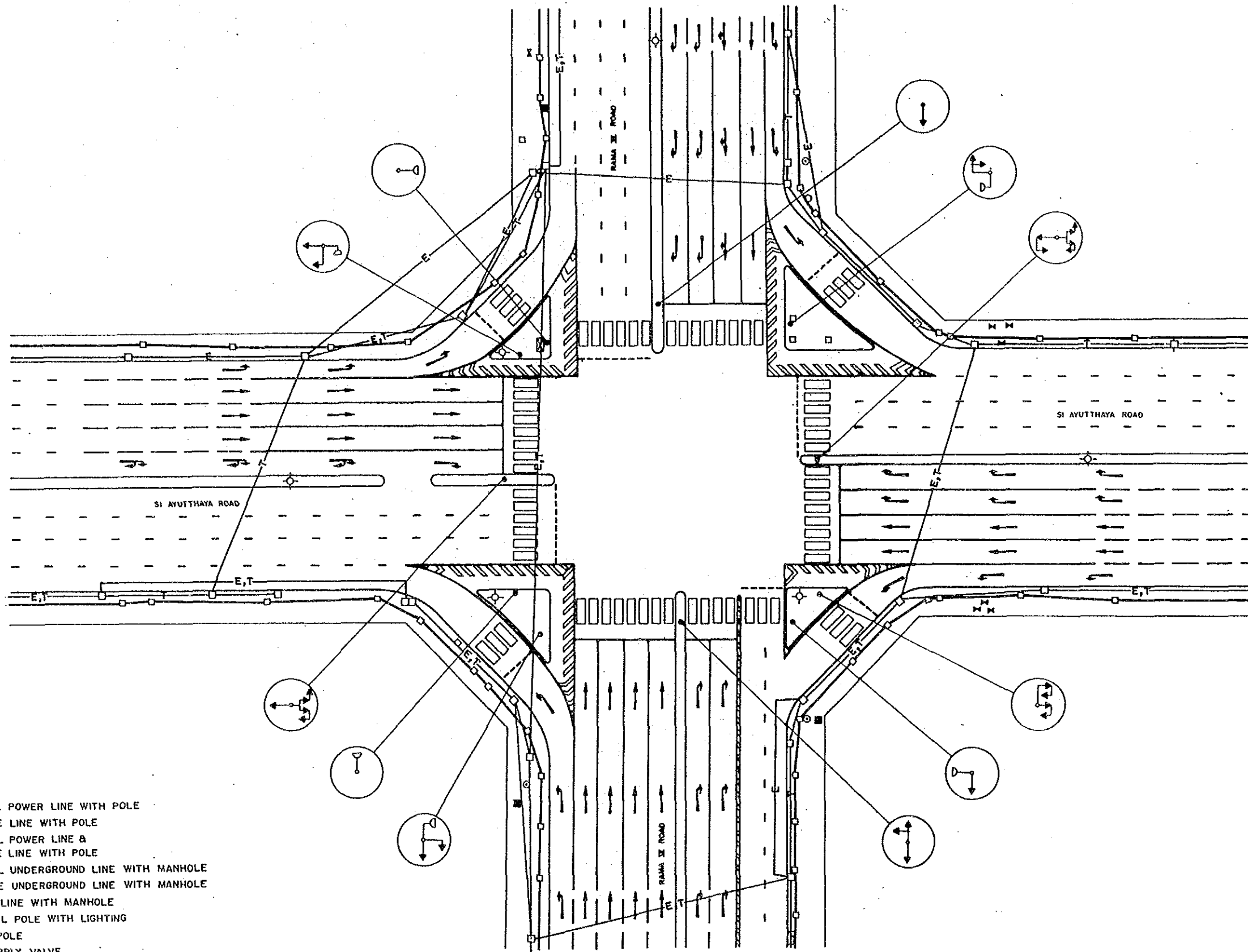


BANGKOK AREA TRAFFIC CONTROL SYSTEM PROJECT : STAGE 1

EXISTING UTILITY LINES AT INTERSECTION

NIKHOM MAKKASAN-PHETCHABURI-SOI SUKHUMVIT 3 (NANA NUA)

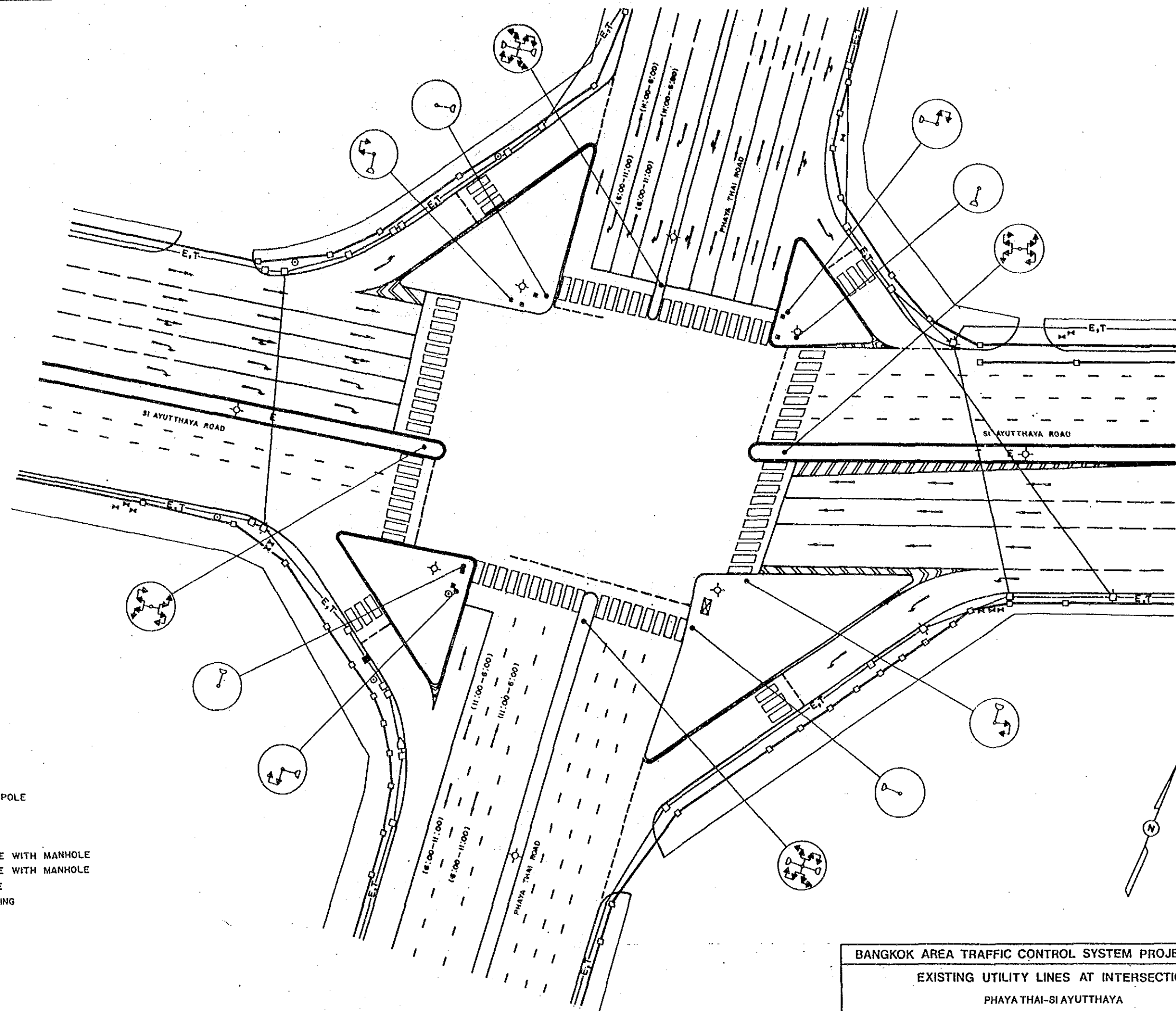
INTERSECTION NO		106	Survey In		MAY 1990
JICA	BMA	Scale		1 / 500	Drawing NO
Japan International	Bangkok Metropolitan				6108
Cooperation Agency	Administration	Date	SEPTEMBER 90	Total	77 / 143



LEGEND

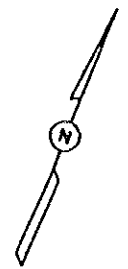
- E—□ ELECTRICAL POWER LINE WITH POLE
- T—□ TELEPHONE LINE WITH POLE
- E,T—□ ELECTRICAL POWER LINE & TELEPHONE LINE WITH POLE
- ELECTRICAL UNDERGROUND LINE WITH MANHOLE
- TELEPHONE UNDERGROUND LINE WITH MANHOLE
- DRAINAGE LINE WITH MANHOLE
- ⊕ ELECTRICAL POLE WITH LIGHTING
- ⊕ LIGHTING POLE
- ⊕ WATER SUPPLY VALVE
- TRAFFIC SIGNAL POLE
- ⊠ TRAFFIC SIGNAL CONTROLLER
- HAND HOLE
- TELEPHONE CAB
- ⏏ PUBLIC TELEPHONE

BANGKOK AREA TRAFFIC CONTROL SYSTEM PROJECT : STAGE I			
EXISTING UTILITY LINES AT INTERSECTION			
RAMA VI-SI AYUTTHAYA			
INTERSECTION NO	109	Survey In	MAY 1990
JICA Japan International Cooperation Agency	BMA Bangkok Metropolitan Administration	Scale	1 / 500
		Date	SEPTEMBER 90
		Drawing No	6109
		Total	78 / 143

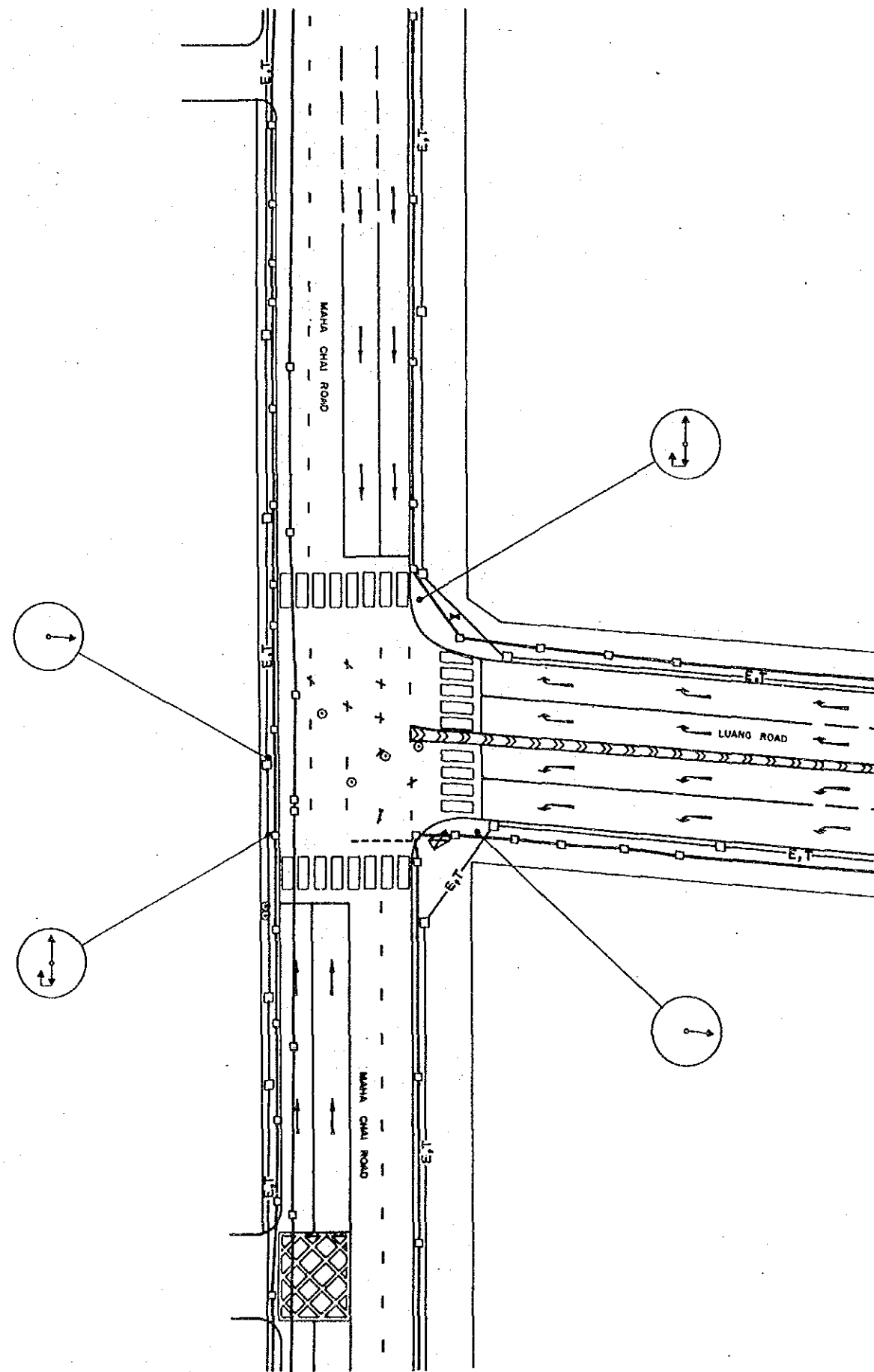


LEGEND

- E—□ ELECTRICAL POWER LINE WITH POLE
- T—□ TELEPHONE LINE WITH POLE
- E,T—□ ELECTRICAL POWER LINE & TELEPHONE LINE WITH POLE
- ELECTRICAL UNDERGROUND LINE WITH MANHOLE
- TELEPHONE UNDERGROUND LINE WITH MANHOLE
- DRAINAGE LINE WITH MANHOLE
- ⊕ ELECTRICAL POLE WITH LIGHTING
- ⊕ LIGHTING POLE
- ⊕ WATER SUPPLY VALVE
- TRAFFIC SIGNAL POLE
- ⊠ TRAFFIC SIGNAL CONTROLLER
- ⊠ HAND HOLE
- ⊠ TELEPHONE CAB
- ⊠ PUBLIC TELEPHONE



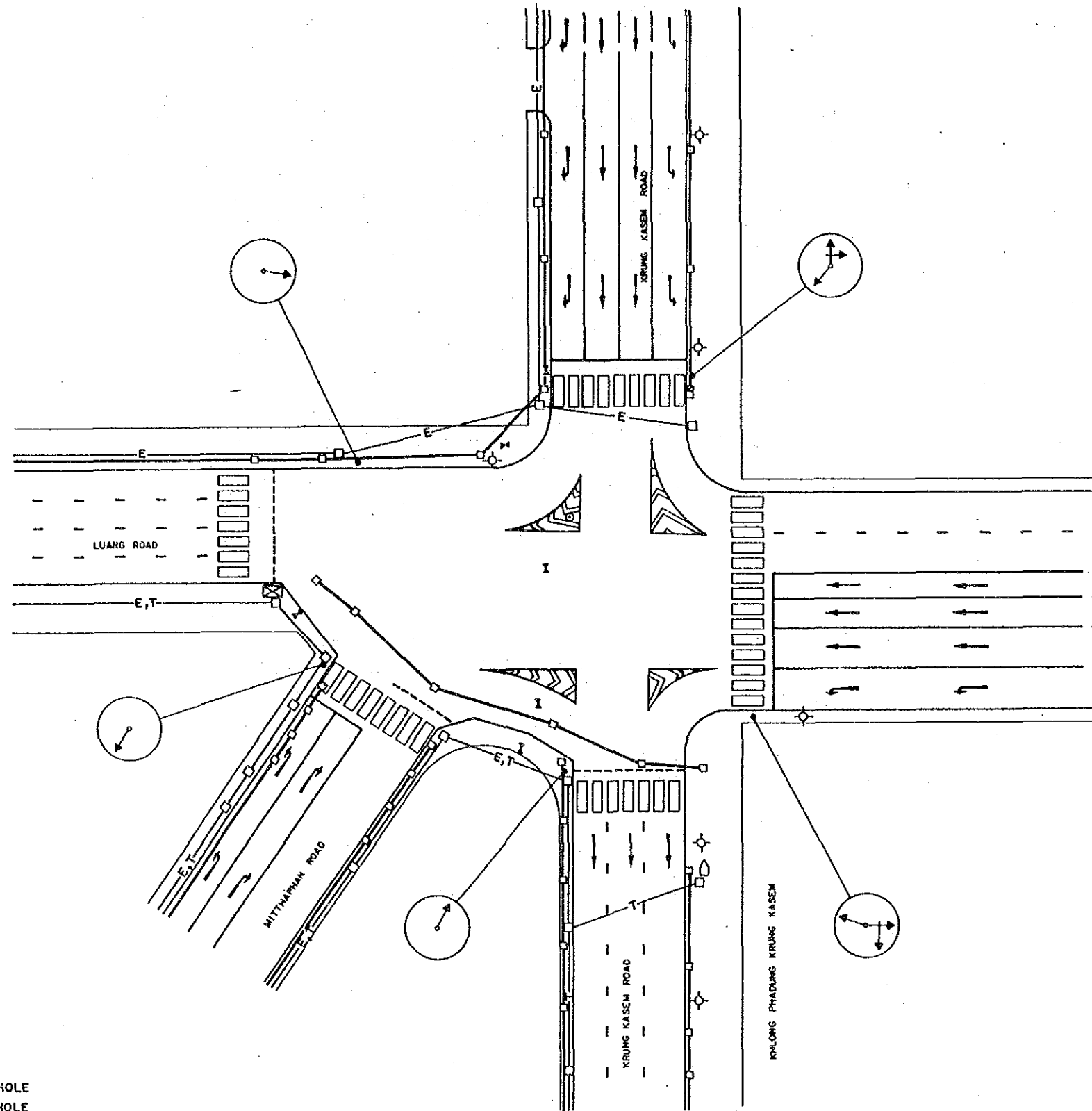
BANGKOK AREA TRAFFIC CONTROL SYSTEM PROJECT: STAGE I			
EXISTING UTILITY LINES AT INTERSECTION			
PHAYA THAI-SI AYUTTHAYA			
INTERSECTION NO	110	Survey In	MAY 1990
JICA Japan International Cooperation Agency	BMA Bangkok Metropolitan Administration	Scale	1 / 500
		Date	SEPTEMBER/90
		Drawing No	6110
		Total	79 / 143



LEGEND

- E—□ ELECTRICAL POWER LINE WITH POLE
- T—□ TELEPHONE LINE WITH POLE
- E,T—□ ELECTRICAL POWER LINE & TELEPHONE LINE WITH POLE
- ELECTRICAL UNDERGROUND LINE WITH MANHOLE
- TELEPHONE UNDERGROUND LINE WITH MANHOLE
- DRAINAGE LINE WITH MANHOLE
- ⊙ ELECTRICAL POLE WITH LIGHTING
- ⊙ LIGHTING POLE
- ⋈ WATER SUPPLY VALVE
- TRAFFIC SIGNAL POLE
- ⊠ TRAFFIC SIGNAL CONTROLLER
- ⊞ HAND HOLE
- TELEPHONE CAB
- ⌚ PUBLIC TELEPHONE

BANGKOK AREA TRAFFIC CONTROL SYSTEM PROJECT: STAGE I			
EXISTING UTILITY LINES AT INTERSECTION			
MAHA CHAI-LUANG			
INTERSECTION NO	112	Survey In	MAY 1990
JICA Japan International Cooperation Agency	BMA Bangkok Metropolitan Administration	Scale	1/500
		Drawing No	6112
		Date	SEPTEMBER 1990
		Total	80/143

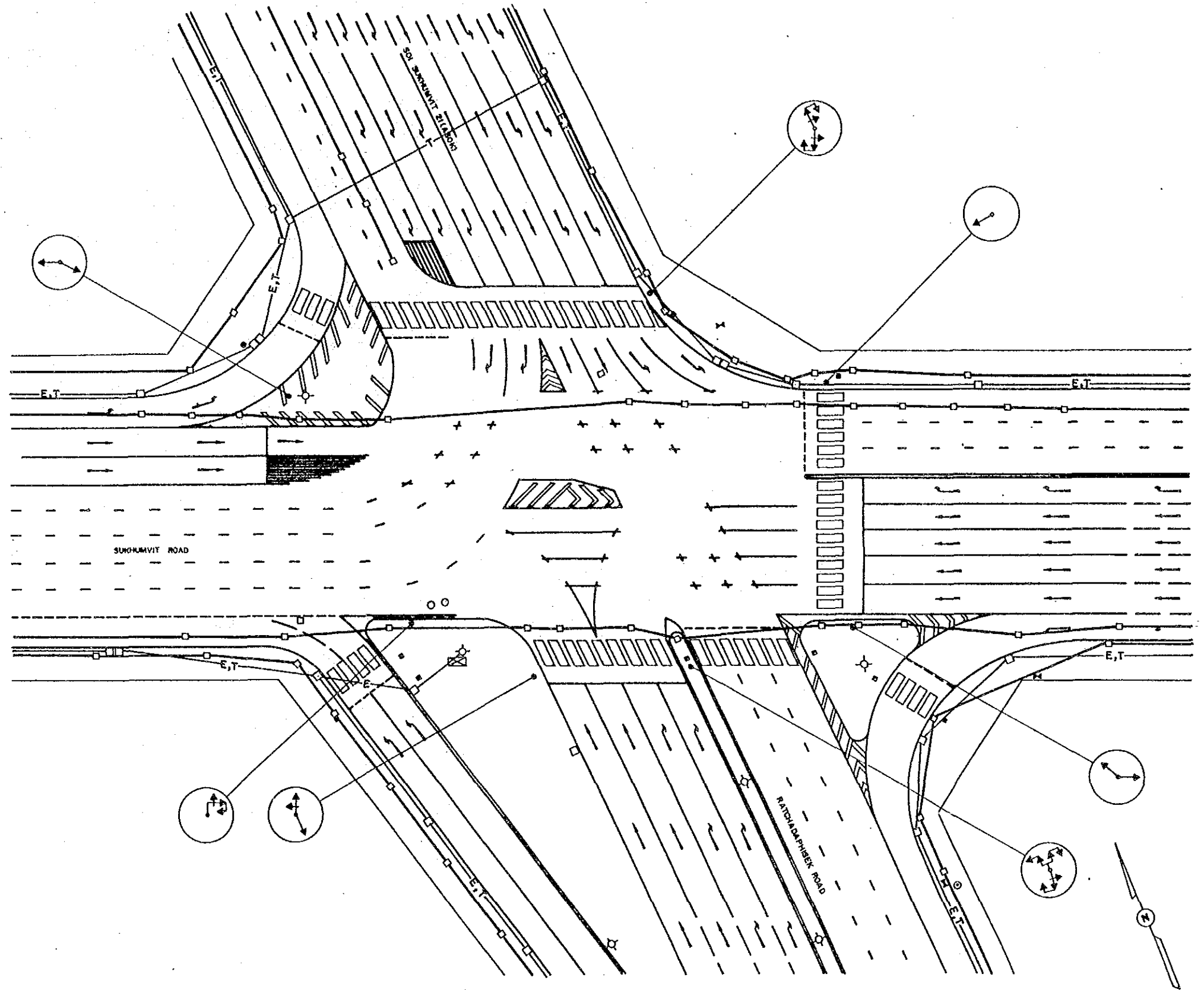


LEGEND

- E—□ ELECTRICAL POWER LINE WITH POLE
- T—□ TELEPHONE LINE WITH POLE
- E,T—□ ELECTRICAL POWER LINE & TELEPHONE LINE WITH POLE
- ELECTRICAL UNDERGROUND LINE WITH MANHOLE
- TELEPHONE UNDERGROUND LINE WITH MANHOLE
- DRAINAGE LINE WITH MANHOLE
- ⊕ ELECTRICAL POLE WITH LIGHTING
- ⊕ LIGHTING POLE
- ⋈ WATER SUPPLY VALVE
- TRAFFIC SIGNAL POLE
- ⊠ TRAFFIC SIGNAL CONTROLLER
- HAND HOLE
- TELEPHONE CAB
- ⏏ PUBLIC TELEPHONE



BANGKOK AREA TRAFFIC CONTROL SYSTEM PROJECT: STAGE I			
EXISTING UTILITY LINES AT INTERSECTION			
KRUNG KASEM-MITTRAPHAN-LUANG			
INTERSECTION NO	114	Survey in	MAY 1990
JICA Japan International Cooperation Agency	BMA Bangkok Metropolitan Administration	Scale	1/500
		Date	SEPTEMBER 90
		Drawing NO	6114
		Total	81 / 143



LEGEND

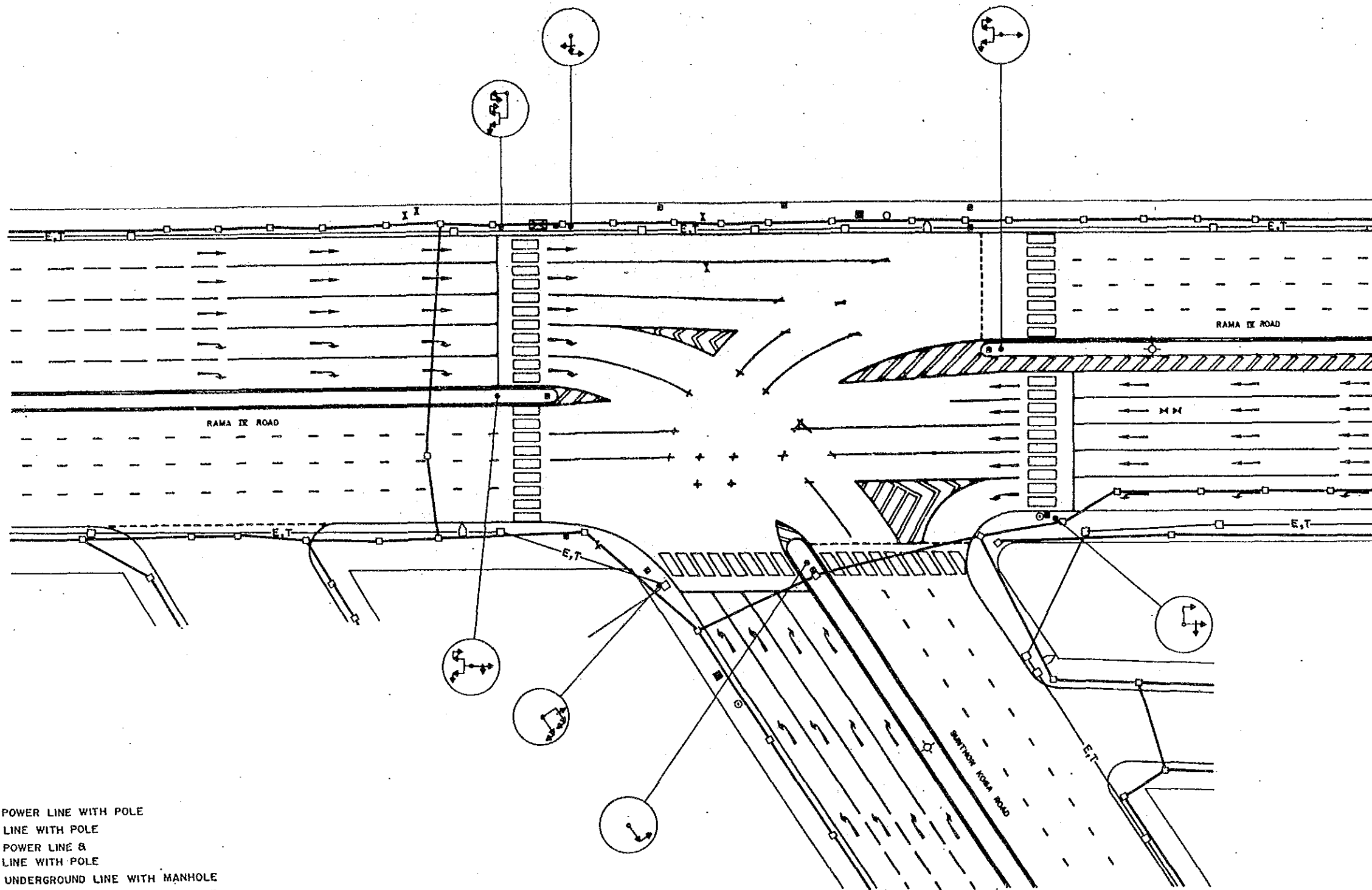
- E—□ ELECTRICAL POWER LINE WITH POLE
- T—□ TELEPHONE LINE WITH POLE
- E,T—□ ELECTRICAL POWER LINE & TELEPHONE LINE WITH POLE
- ELECTRICAL UNDERGROUND LINE WITH MANHOLE
- TELEPHONE UNDERGROUND LINE WITH MANHOLE
- DRAINAGE LINE WITH MANHOLE
- ⊕ ELECTRICAL POLE WITH LIGHTING
- ⊙ LIGHTING POLE
- ⋈ WATER SUPPLY VALVE
- TRAFFIC SIGNAL POLE
- ⊠ TRAFFIC SIGNAL CONTROLLER
- ◻ HAND HOLE
- TELEPHONE CAB
- ⌒ PUBLIC TELEPHONE

BANGKOK AREA TRAFFIC CONTROL SYSTEM PROJECT : STAGE I

EXISTING UTILITY LINES AT INTERSECTION

SUKHUMVIT-SOI SUKHUMVIT 21 (ASOK)-RATCHADAPHISEK

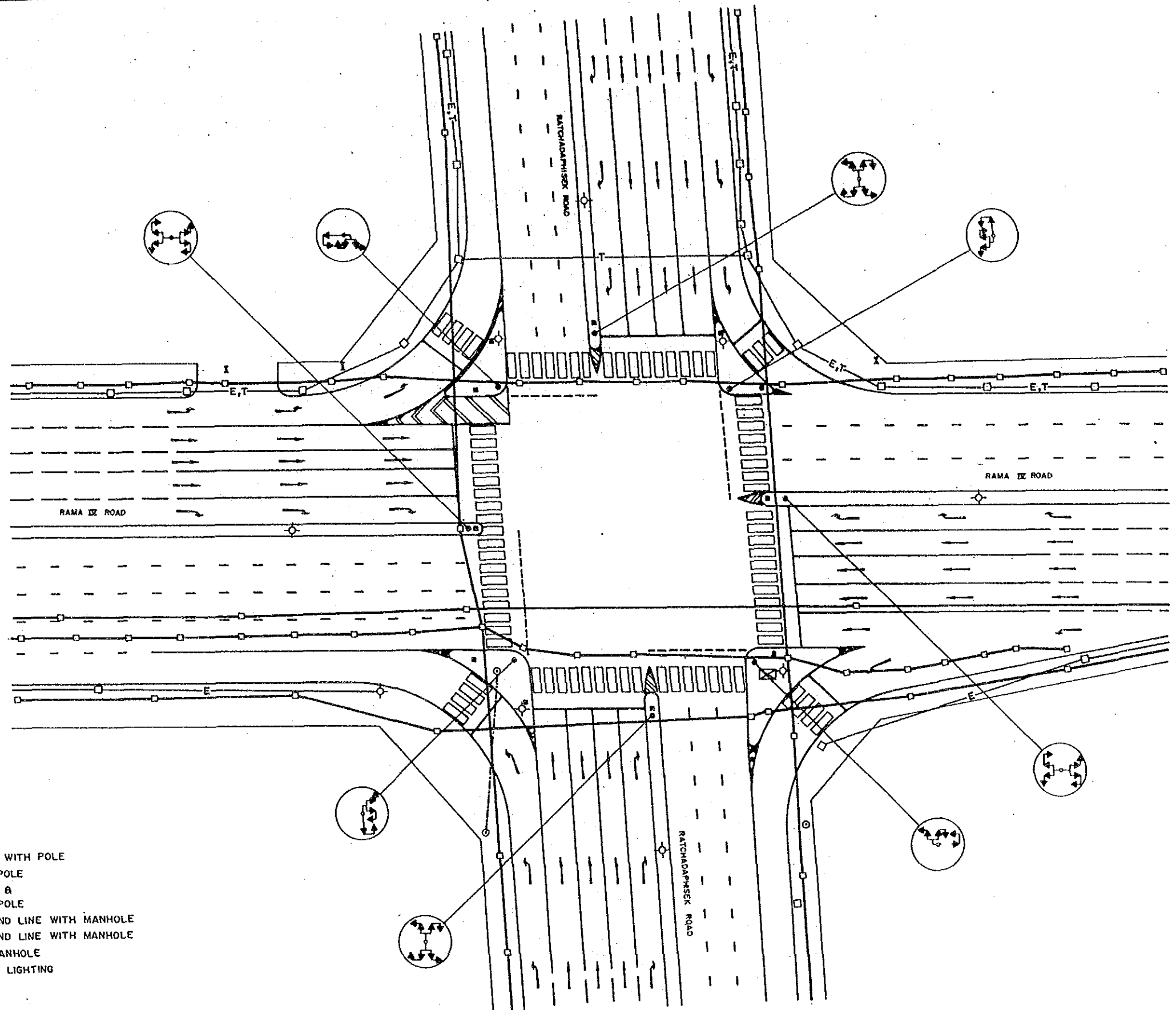
INTERSECTION NO	115	Survey In	MAY 1960
JICA Japan International Cooperation Agency	BMA Bangkok Metropolitan Administration	Scale	1 / 500
		Drawing NR	6115
		Date	SEPTEMBER, 60
		Total	82 / 143



LEGEND

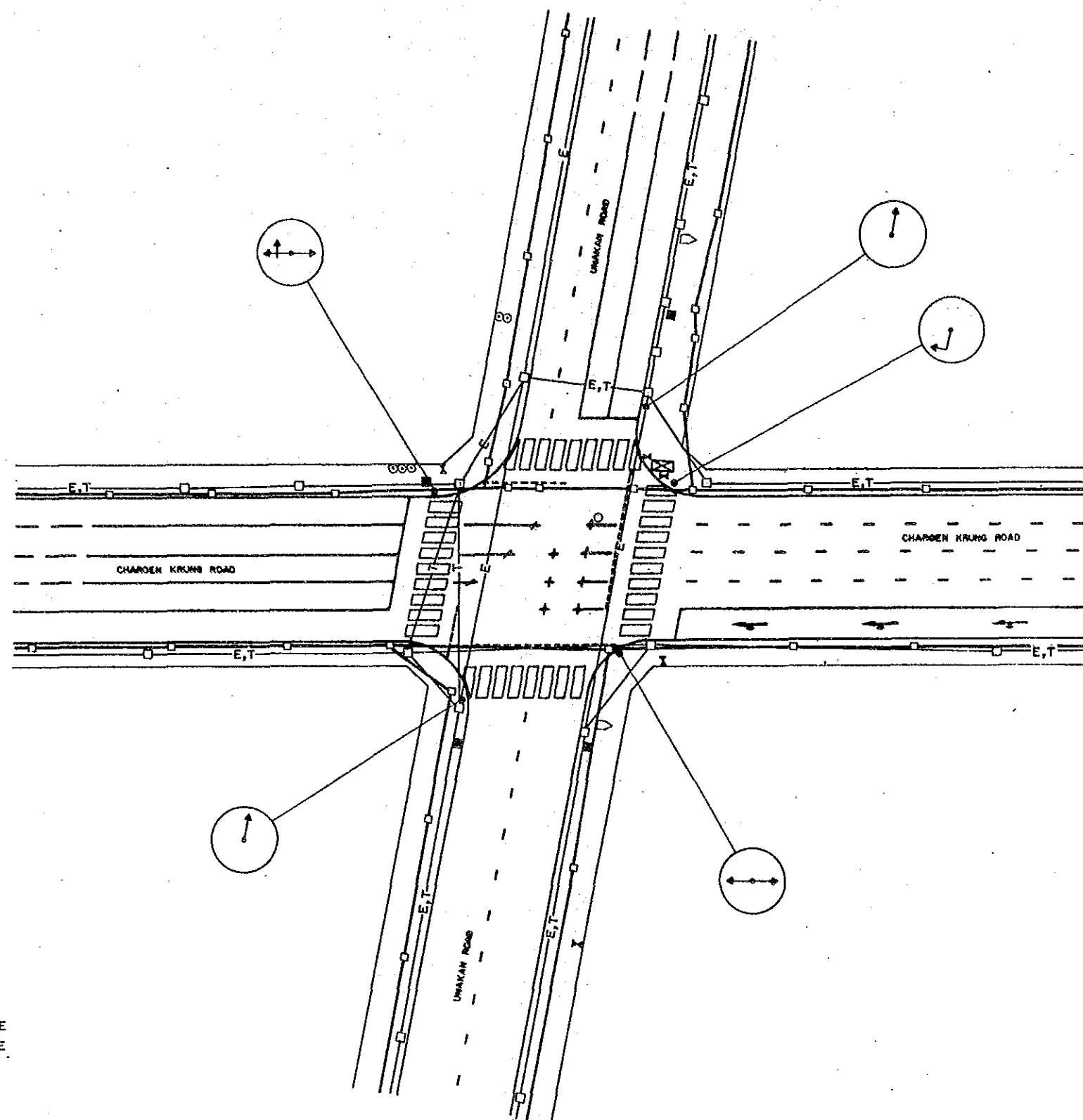
- E—□ ELECTRICAL POWER LINE WITH POLE
- T—□ TELEPHONE LINE WITH POLE
- E,T—□ ELECTRICAL POWER LINE & TELEPHONE LINE WITH POLE
- ELECTRICAL UNDERGROUND LINE WITH MANHOLE
- TELEPHONE UNDERGROUND LINE WITH MANHOLE
- DRAINAGE LINE WITH MANHOLE
- ⊕ ELECTRICAL POLE WITH LIGHTING
- ⊙ LIGHTING POLE
- ⋈ WATER SUPPLY VALVE
- TRAFFIC SIGNAL POLE
- ⊠ TRAFFIC SIGNAL CONTROLLER
- ⊞ HAND HOLE
- TELEPHONE CAB
- ⌒ PUBLIC TELEPHONE

BANGKOK AREA TRAFFIC CONTROL SYSTEM PROJECT : STAGE I			
EXISTING UTILITY LINES AT INTERSECTION			
SUNTHON KOSA-RAMA IV			
INTERSECTION NO	118	Survey In	MAY 1990
JICA Japan International Cooperation Agency	BMA Bangkok Metropolitan Administration	Scale	1 / 500
		Date	SEPTEMBER 90
		Drawing NO	6118
		Total	83 / 143



- LEGEND**
- E—□ ELECTRICAL POWER LINE WITH POLE
 - T—□ TELEPHONE LINE WITH POLE
 - E,T—□ ELECTRICAL POWER LINE & TELEPHONE LINE WITH POLE
 - ELECTRICAL UNDERGROUND LINE WITH MANHOLE
 - TELEPHONE UNDERGROUND LINE WITH MANHOLE
 - DRAINAGE LINE WITH MANHOLE
 - ⊙ ELECTRICAL POLE WITH LIGHTING
 - ◇ LIGHTING POLE
 - ⊕ WATER SUPPLY VALVE
 - TRAFFIC SIGNAL POLE
 - ⊠ TRAFFIC SIGNAL CONTROLLER
 - ⊞ HAND HOLE
 - TELEPHONE CAB
 - ⌒ PUBLIC TELEPHONE

BANGKOK AREA TRAFFIC CONTROL SYSTEM PROJECT: STAGE I			
EXISTING UTILITY LINES AT INTERSECTION			
RATCHADAPHISEK-RAMA IV			
INTERSECTION NO	123	Survey In	MAY 1990
JICA Japan International Cooperation Agency	BMA Bangkok Metropolitan Administration	Scale	1/500
		Date	SEPTEMBER 1990
		Drawing NO	6123
		Total	84 / 143

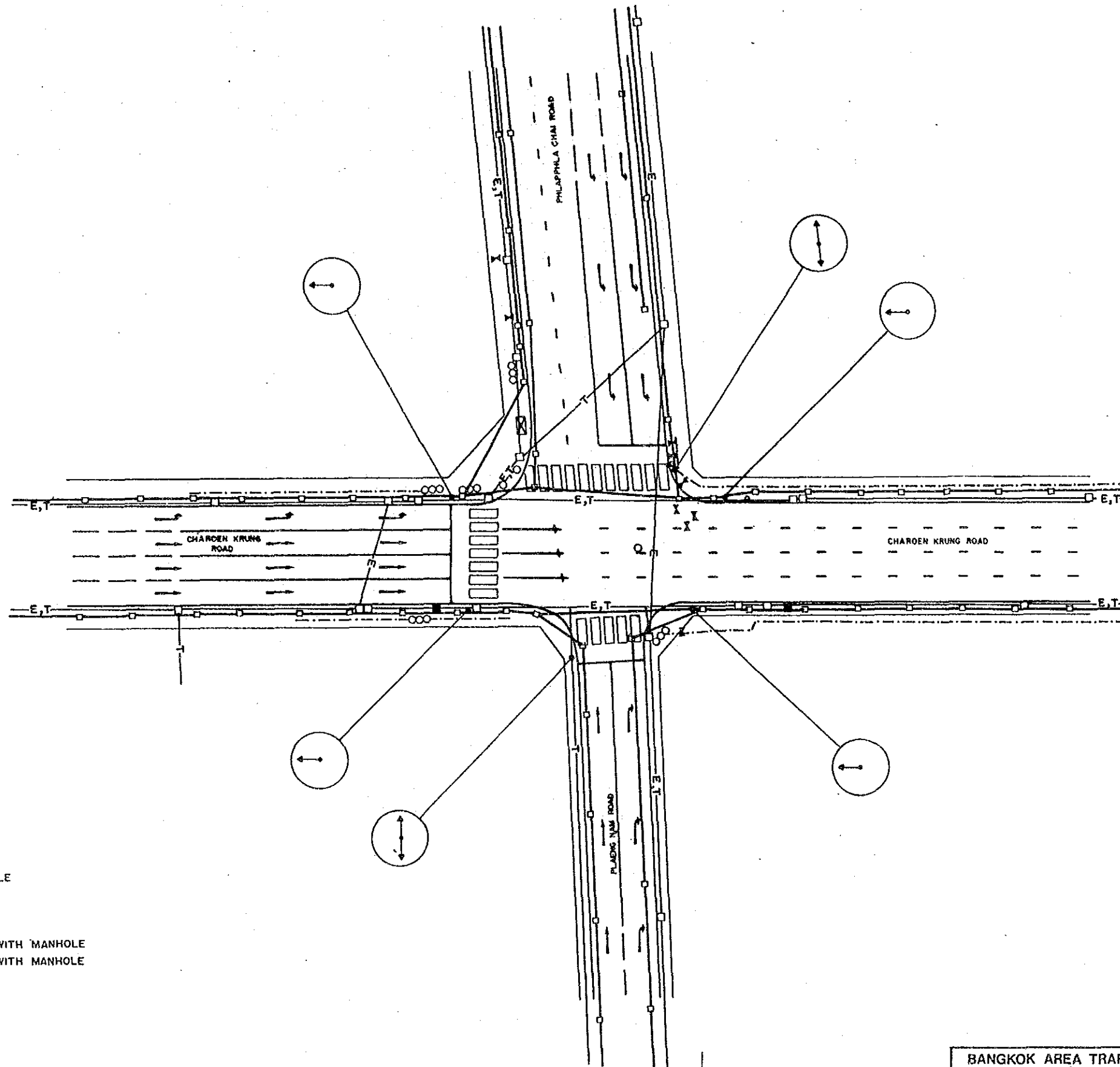


LEGEND

- E—□ ELECTRICAL POWER LINE WITH POLE
- T—□ TELEPHONE LINE WITH POLE
- E,T—□ ELECTRICAL POWER LINE & TELEPHONE LINE WITH POLE
- ELECTRICAL UNDERGROUND LINE WITH MANHOLE
- TELEPHONE UNDERGROUND LINE WITH MANHOLE
- — — — — DRAINAGE LINE WITH MANHOLE
- ⊕ ELECTRICAL POLE WITH LIGHTING
- ⊙ LIGHTING POLE
- ⋈ WATER SUPPLY VALVE
- TRAFFIC SIGNAL POLE
- ⊠ TRAFFIC SIGNAL CONTROLLER
- ⊞ HAND HOLE
- TELEPHONE CAB
- ⌒ PUBLIC TELEPHONE



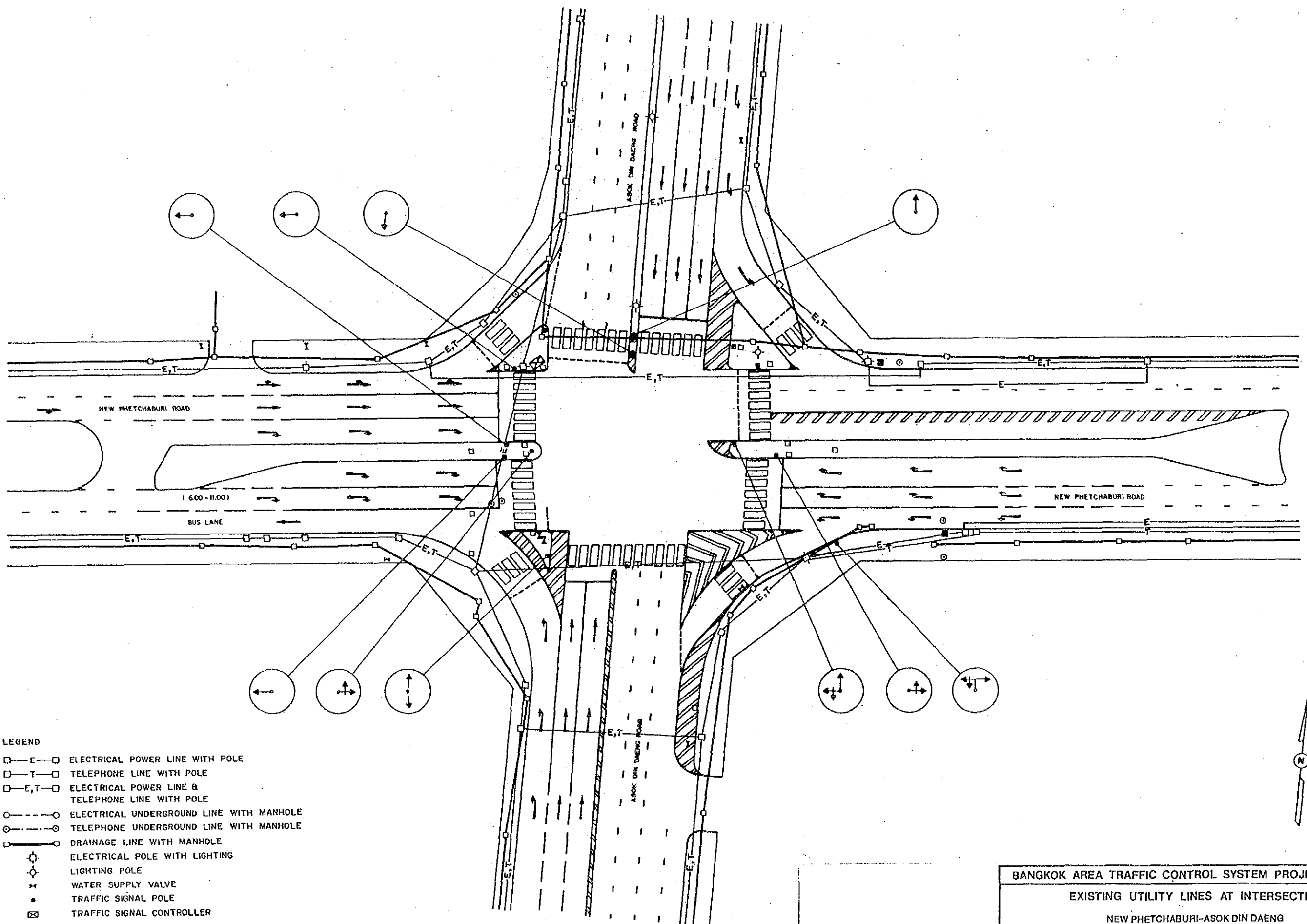
BANGKOK AREA TRAFFIC CONTROL SYSTEM PROJECT : STAGE I			
EXISTING UTILITY LINES AT INTERSECTION			
UNAKAN-CHAROEN KRUNG			
INTERSECTION NO	130	Survey In	MAY 1990
JICA	BMA	Scale	1 / 500
Japan International	Bangkok Metropolitan	Cooperation Agency	Administration
		Date	SEPTEMBER '90
		Drawing No	8130
		Total	85 / 143



LEGEND

- E—□ ELECTRICAL POWER LINE WITH POLE
- T—□ TELEPHONE LINE WITH POLE
- E,T—□ ELECTRICAL POWER LINE & TELEPHONE LINE WITH POLE
- ELECTRICAL UNDERGROUND LINE WITH MANHOLE
- TELEPHONE UNDERGROUND LINE WITH MANHOLE
- DRAINAGE LINE WITH MANHOLE
- ⊕ ELECTRICAL POLE WITH LIGHTING
- ⊕ LIGHTING POLE
- × WATER SUPPLY VALVE
- TRAFFIC SIGNAL POLE
- ⊠ TRAFFIC SIGNAL CONTROLLER
- ⊠ HAND HOLE
- TELEPHONE CAB
- ⌒ PUBLIC TELEPHONE

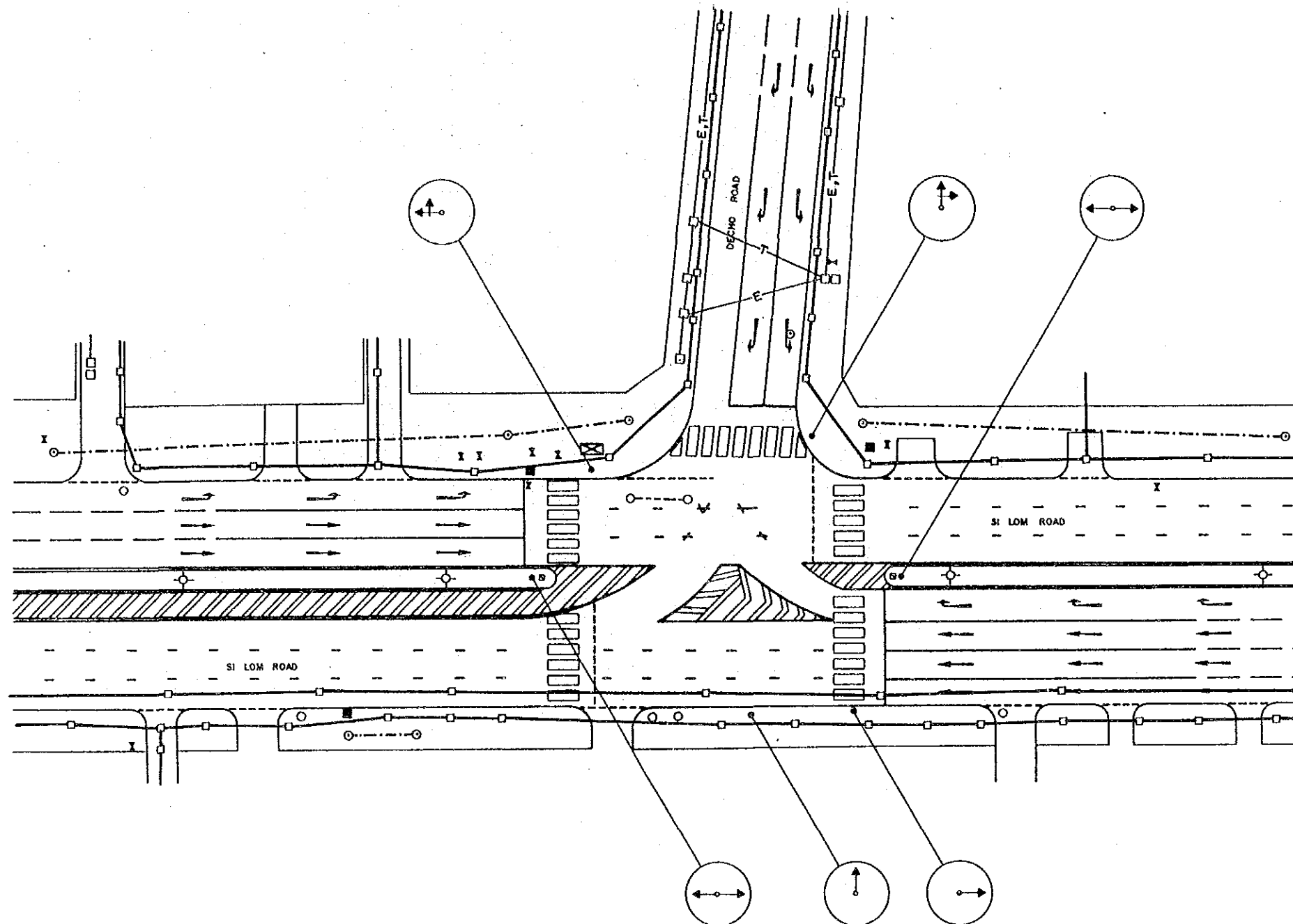
BANGKOK AREA TRAFFIC CONTROL SYSTEM PROJECT : STAGE I			
EXISTING UTILITY LINES AT INTERSECTION			
PLAENG NAM-CHAROEN KRUNG			
INTERSECTION NO	131	Survey In	MAY 1990
JICA	BMA	Scale	1 / 500
Japan International	Bangkok Metropolitan	Date	(SEPTEMBER) 89
Cooperation Agency	Administration	Total	86 / 143



LEGEND

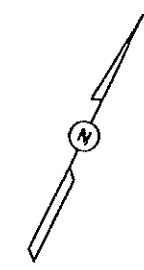
- E—□ ELECTRICAL POWER LINE WITH POLE
- T—□ TELEPHONE LINE WITH POLE
- E,T—□ ELECTRICAL POWER LINE & TELEPHONE LINE WITH POLE
- ELECTRICAL UNDERGROUND LINE WITH MANHOLE
- TELEPHONE UNDERGROUND LINE WITH MANHOLE
- DRAINAGE LINE WITH MANHOLE
- ⊕ ELECTRICAL POLE WITH LIGHTING
- ⊕ LIGHTING POLE
- × WATER SUPPLY VALVE
- TRAFFIC SIGNAL POLE
- ⊠ TRAFFIC SIGNAL CONTROLLER
- ⊠ HAND HOLE
- TELEPHONE CAB
- ⏏ PUBLIC TELEPHONE

BANGKOK AREA TRAFFIC CONTROL SYSTEM PROJECT: STAGE I			
EXISTING UTILITY LINES AT INTERSECTION			
NEW PHETCHABURI-ASOK DIN DAENG			
INTERSECTION NO	134	Survey In	MAY 1990
JICA Japan International Cooperation Agency	BMA Bangkok Metropolitan Administration	Scale	1 / 500
		Date	SEPTEMBER 90
		Drawing No	6134
		Total	87 / 143

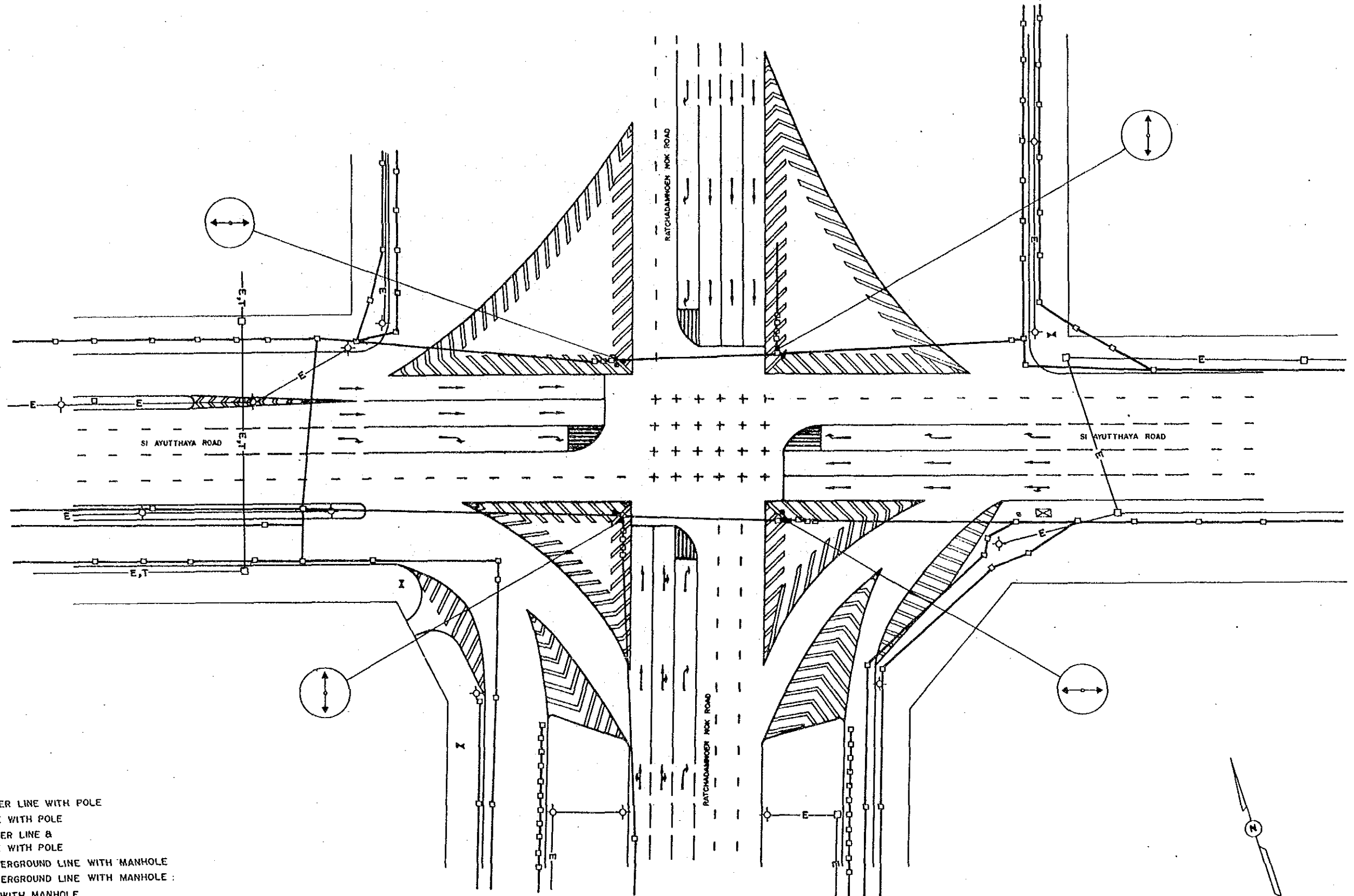


LEGEND

- E—□ ELECTRICAL POWER LINE WITH POLE
- T—□ TELEPHONE LINE WITH POLE
- E,T—□ ELECTRICAL POWER LINE & TELEPHONE LINE WITH POLE
- ELECTRICAL UNDERGROUND LINE WITH 'MANHOLE'
- TELEPHONE UNDERGROUND LINE WITH 'MANHOLE'
- DRAINAGE LINE WITH MANHOLE
- ⊕ ELECTRICAL POLE WITH LIGHTING
- ⊙ LIGHTING POLE
- ⊗ WATER SUPPLY VALVE
- TRAFFIC SIGNAL POLE
- ⊠ TRAFFIC SIGNAL CONTROLLER
- ⊞ HAND HOLE
- TELEPHONE CAB
- ⌒ PUBLIC TELEPHONE

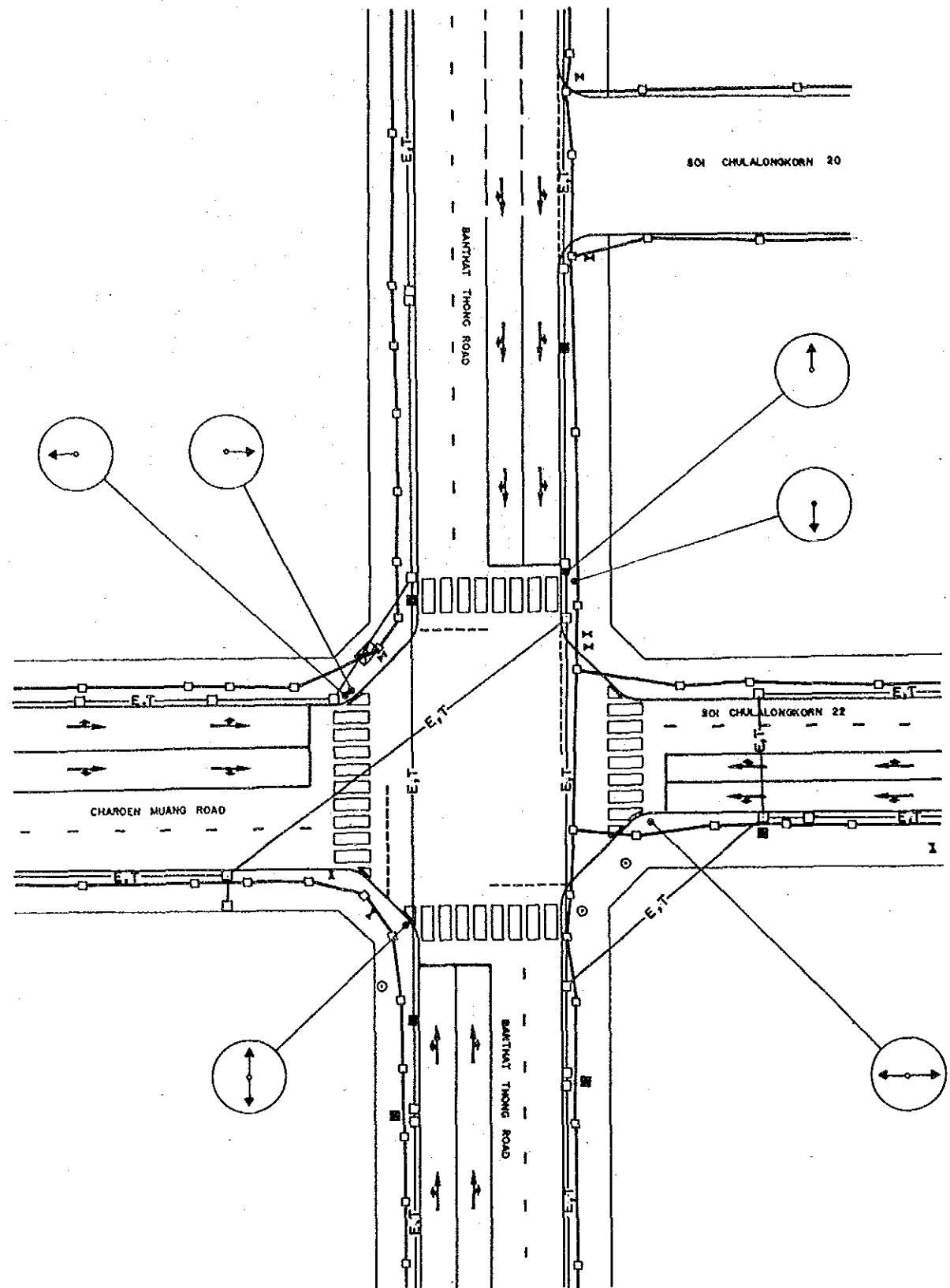


BANGKOK AREA TRAFFIC CONTROL SYSTEM PROJECT: STAGE I			
EXISTING UTILITY LINES AT INTERSECTION			
DECHO-SI LOM			
INTERSECTION NO	137	Survey In	MAY 1990
JICA Japan International Cooperation Agency	BMA Bangkok Metropolitan Administration	Scale	1 / 500
		Drawing No	6137
		Date	SEPTEMBER 90
		Total	88 / 143



- LEGEND**
- E—□ ELECTRICAL POWER LINE WITH POLE
 - T—□ TELEPHONE LINE WITH POLE
 - E,T—□ ELECTRICAL POWER LINE & TELEPHONE LINE WITH POLE
 - ELECTRICAL UNDERGROUND LINE WITH MANHOLE
 - TELEPHONE UNDERGROUND LINE WITH MANHOLE
 - DRAINAGE LINE WITH MANHOLE
 - ELECTRICAL POLE WITH LIGHTING
 - LIGHTING POLE
 - × WATER SUPPLY VALVE
 - TRAFFIC SIGNAL POLE
 - ⊠ TRAFFIC SIGNAL CONTROLLER
 - ⊞ HAND HOLE
 - ⊞ TELEPHONE CAB
 - △ PUBLIC TELEPHONE

BANGKOK AREA TRAFFIC CONTROL SYSTEM PROJECT : STAGE I			
EXISTING UTILITY LINES AT INTERSECTION			
RATCHADAMNOEN NOK-SI AYUTTHAYA			
INTERSECTION NO	139	Survey In	MAY 1990
JICA Japan International Cooperation Agency	BMA Bangkok Metropolitan Administration	Scale	1 / 500
		Date	SEPTEMBER '90
		Drawing No	6139
		Total	69 / 143

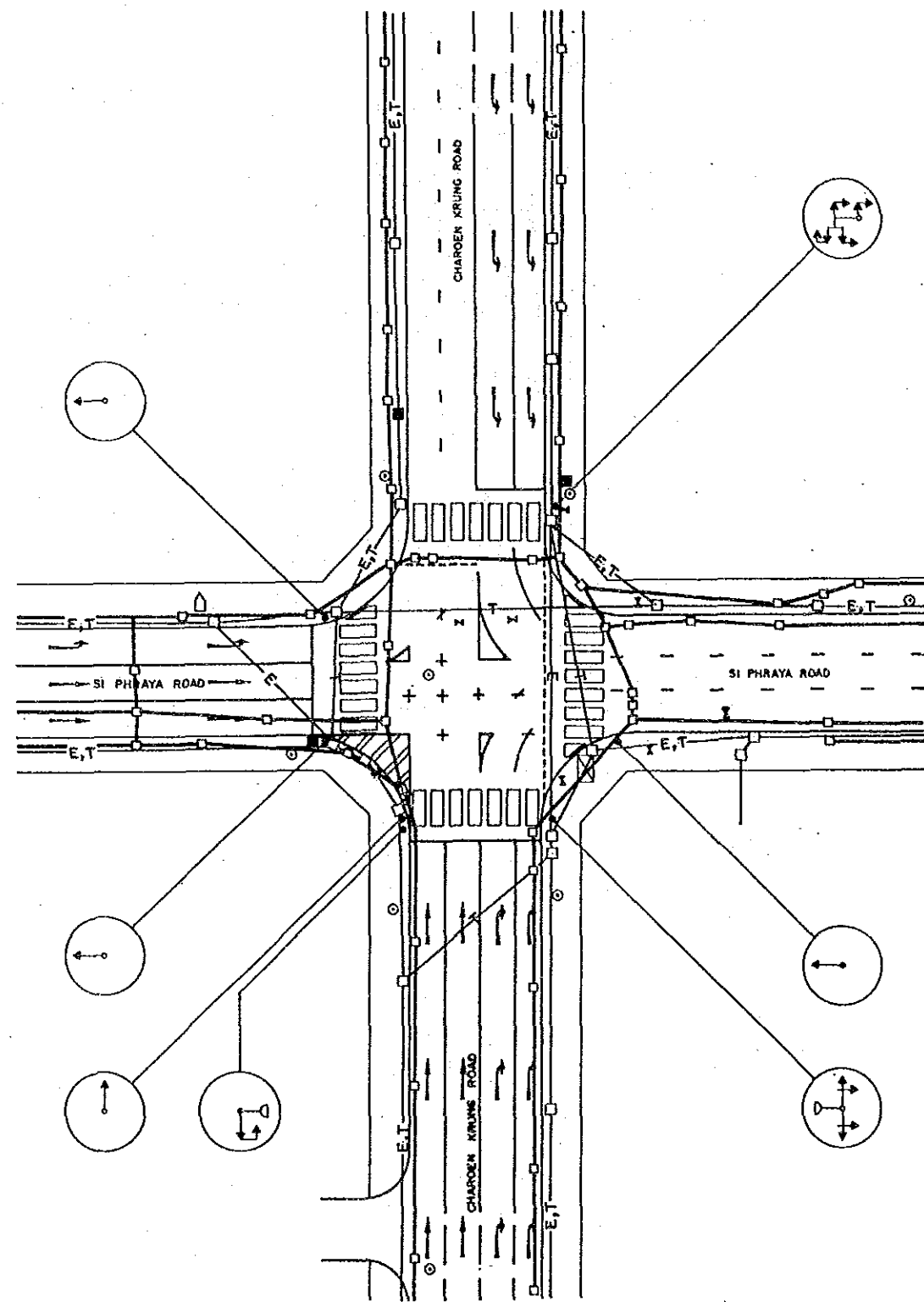


LEGEND

- E—□ ELECTRICAL POWER LINE WITH POLE
- T—□ TELEPHONE LINE WITH POLE
- E,T—□ ELECTRICAL POWER LINE & TELEPHONE LINE WITH POLE
- ELECTRICAL UNDERGROUND LINE WITH MANHOLE
- TELEPHONE UNDERGROUND LINE WITH MANHOLE
- DRAINAGE LINE WITH MANHOLE
- ⊕ ELECTRICAL POLE WITH LIGHTING
- ⊙ LIGHTING POLE
- ⋈ WATER SUPPLY VALVE
- TRAFFIC SIGNAL POLE
- ⊠ TRAFFIC SIGNAL CONTROLLER
- ⊞ HAND HOLE
- TELEPHONE CAB
- ⌒ PUBLIC TELEPHONE

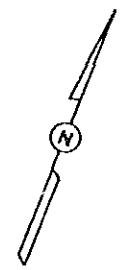


BANGKOK AREA TRAFFIC CONTROL SYSTEM PROJECT : STAGE I			
EXISTING UTILITY LINES AT INTERSECTION			
BANTHAT THONG-CHAROEN MUANG			
INTERSECTION NO	140	Survey in	MAY 1990
JICA Japan International Cooperation Agency	BMA Bangkok Metropolitan Administration	Scale	1/500
		Date	SEPTEMBER '90
		Drawing No	6140
		Total	90/143



LEGEND

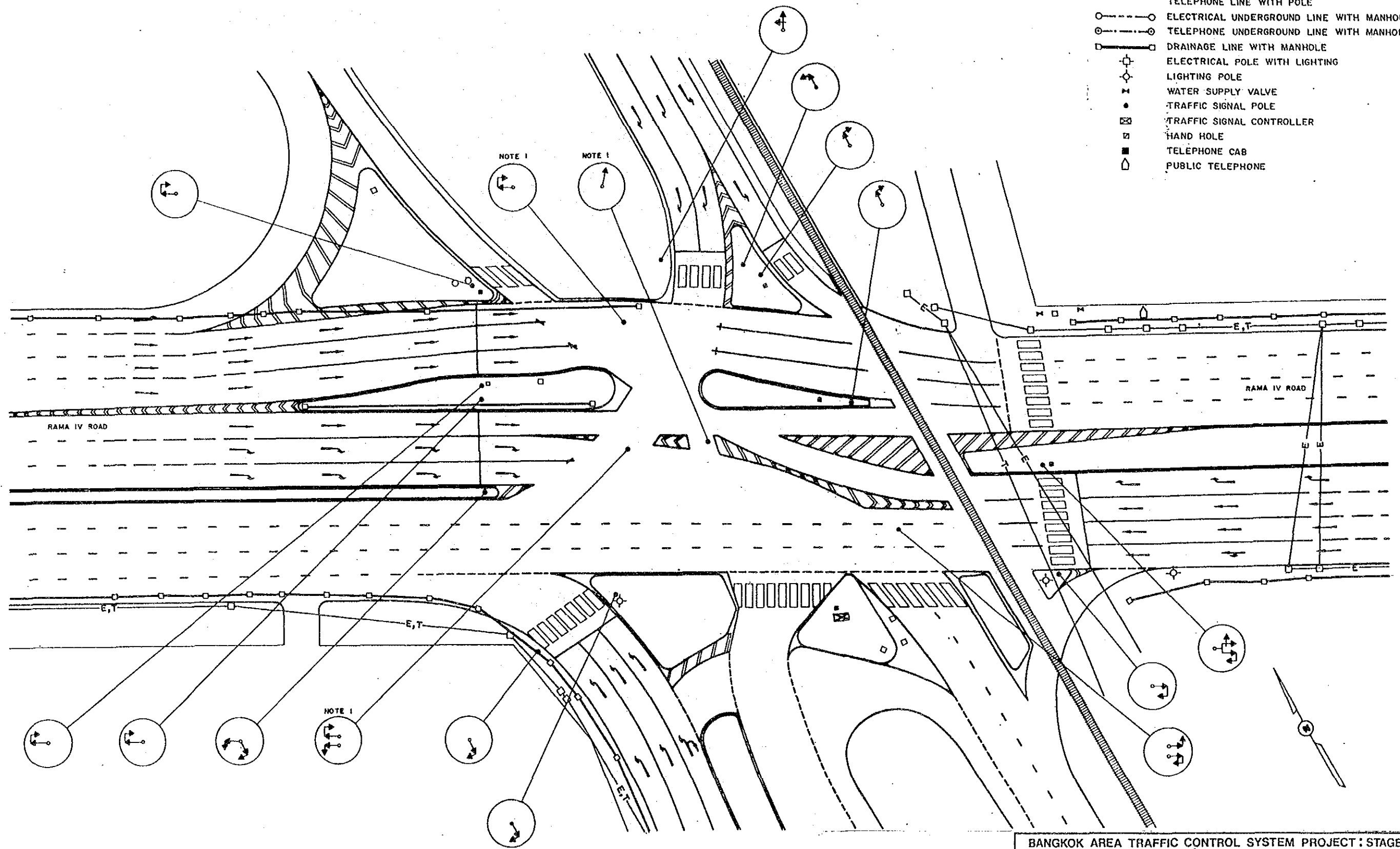
- E—□ ELECTRICAL POWER LINE WITH POLE
- T—□ TELEPHONE LINE WITH POLE
- E,T—□ ELECTRICAL POWER LINE & TELEPHONE LINE WITH POLE
- ELECTRICAL UNDERGROUND LINE WITH MANHOLE
- TELEPHONE UNDERGROUND LINE WITH MANHOLE
- DRAINAGE LINE WITH MANHOLE
- ⊕ ELECTRICAL POLE WITH LIGHTING
- ⊕ LIGHTING POLE
- ⋈ WATER SUPPLY VALVE
- TRAFFIC SIGNAL POLE
- ⊠ TRAFFIC SIGNAL CONTROLLER
- ⊞ HAND HOLE
- TELEPHONE CAB
- ⌒ PUBLIC TELEPHONE



BANGKOK AREA TRAFFIC CONTROL SYSTEM PROJECT : STAGE I			
EXISTING UTILITY LINES AT INTERSECTION			
SI PHRAYA-CHAROEN KRUNG			
INTERSECTION NO	141	Survey In	MAY 1990
JICA	BMA	Scale	1 / 500
Japan International	Bangkok Metropolitan	Drawing No	6141
Cooperation Agency	Administration	Date	SEPTEMBER 90
		Total	91 / 143

LEGEND

- E—□ ELECTRICAL POWER LINE WITH POLE
- T—□ TELEPHONE LINE WITH POLE
- E,T—□ ELECTRICAL POWER LINE & TELEPHONE LINE WITH POLE
- ELECTRICAL UNDERGROUND LINE WITH MANHOLE
- TELEPHONE UNDERGROUND LINE WITH MANHOLE
- DRAINAGE LINE WITH MANHOLE
- ⊕ ELECTRICAL POLE WITH LIGHTING
- ⊙ LIGHTING POLE
- ⋈ WATER SUPPLY VALVE
- TRAFFIC SIGNAL POLE
- ⊠ TRAFFIC SIGNAL CONTROLLER
- ⊞ HAND HOLE
- TELEPHONE CAB
- ⏏ PUBLIC TELEPHONE



BANGKOK AREA TRAFFIC CONTROL SYSTEM PROJECT: STAGE I

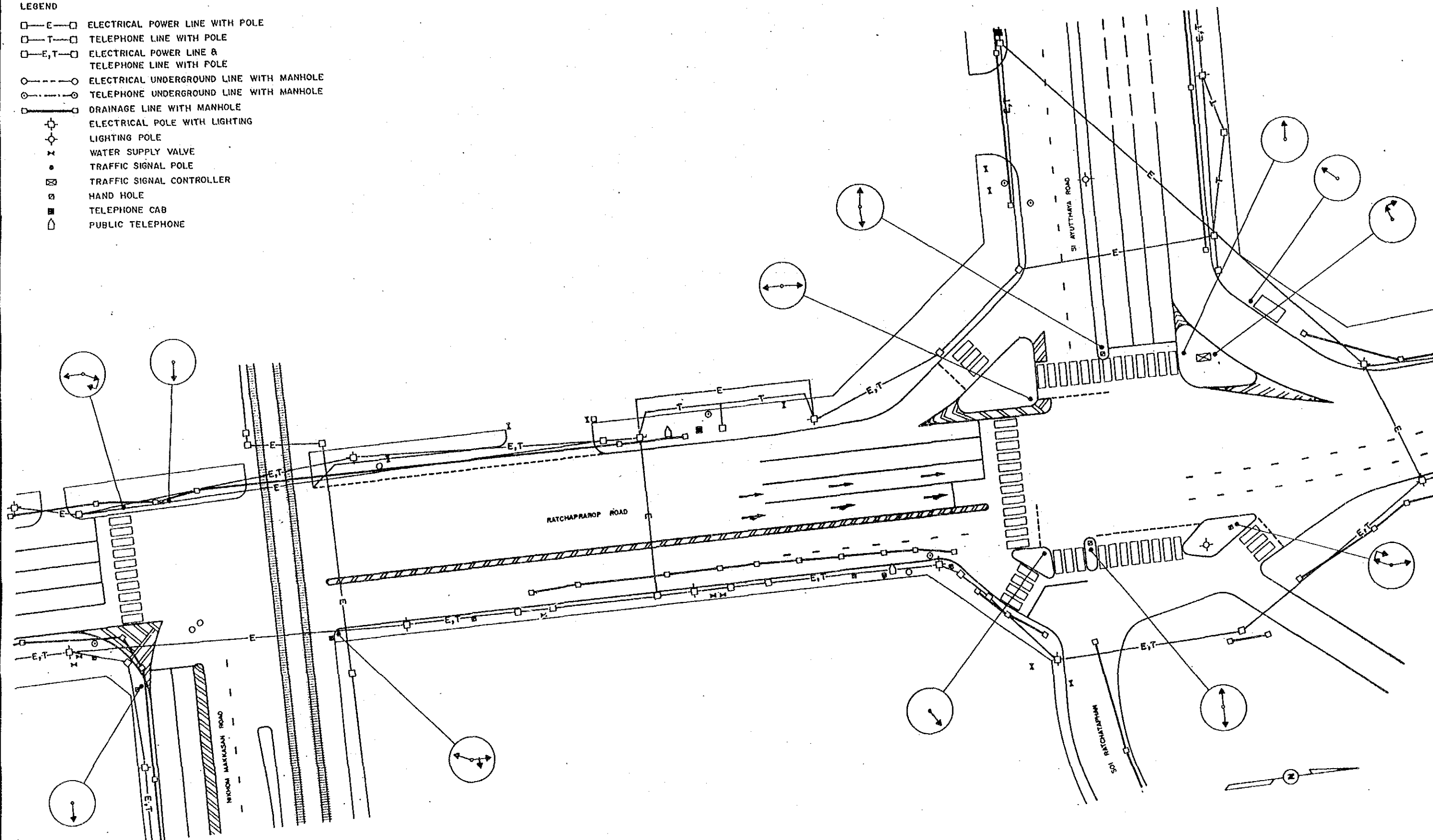
EXISTING UTILITY LINES AT INTERSECTION

CHUA PHLOENG-RAMA IV-DIN DAENG PORT EXPRESSWAY

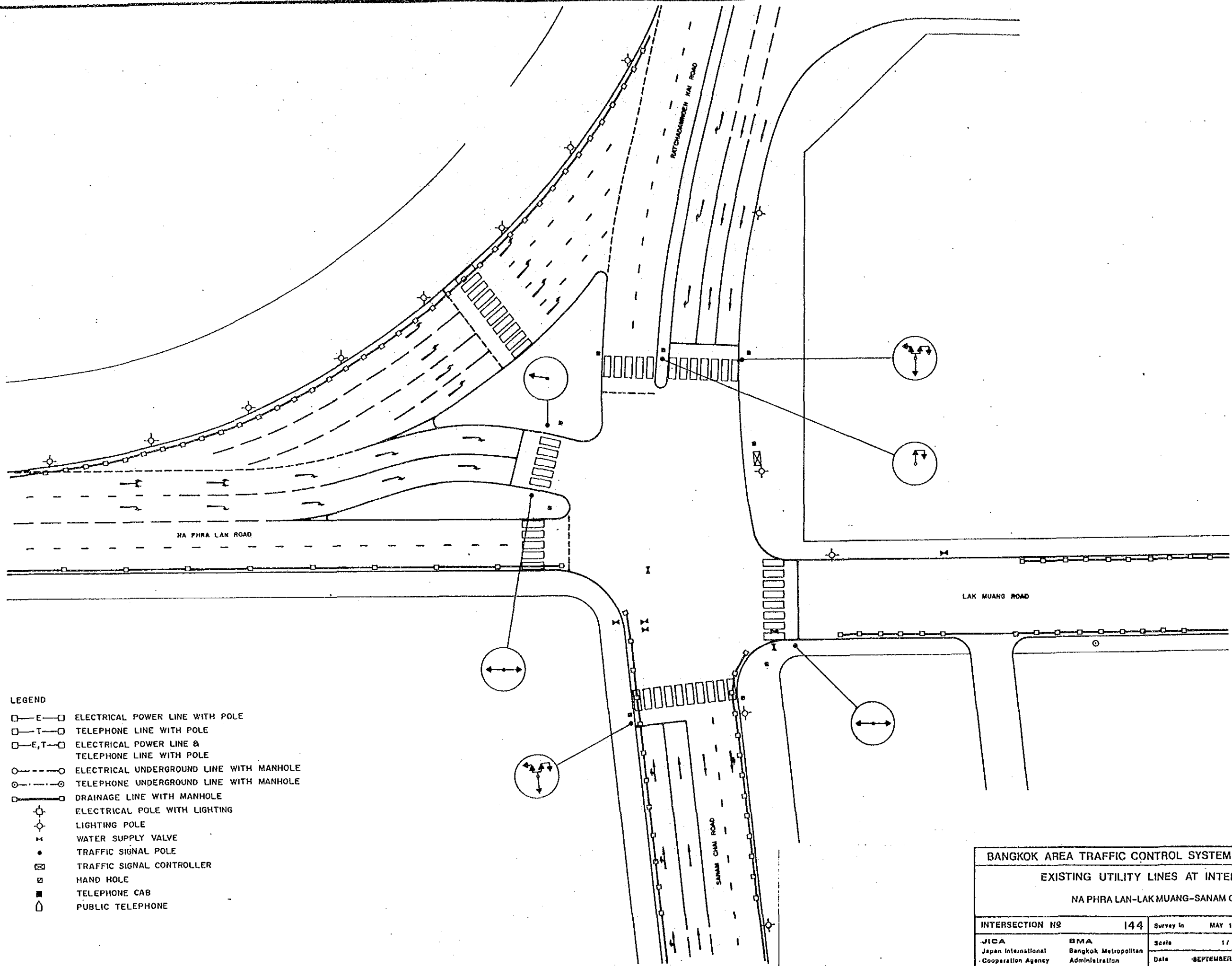
INTERSECTION NO		142	Survey In		MAY 1990
JICA	BMA	Scale		1 / 500	Drawing No
Japan International	Bangkok Metropolitan				6142
Cooperation Agency	Administration	Date	SEPTEMBER 1990	Total	92 / 143

LEGEND

- E—□ ELECTRICAL POWER LINE WITH POLE
- T—□ TELEPHONE LINE WITH POLE
- E,T—□ ELECTRICAL POWER LINE & TELEPHONE LINE WITH POLE
- ELECTRICAL UNDERGROUND LINE WITH MANHOLE
- TELEPHONE UNDERGROUND LINE WITH MANHOLE
- DRAINAGE LINE WITH MANHOLE
- ⊕ ELECTRICAL POLE WITH LIGHTING
- LIGHTING POLE
- ⊕ WATER SUPPLY VALVE
- TRAFFIC SIGNAL POLE
- ⊠ TRAFFIC SIGNAL CONTROLLER
- ⊞ HAND HOLE
- ⊞ TELEPHONE CAB
- ⊞ PUBLIC TELEPHONE

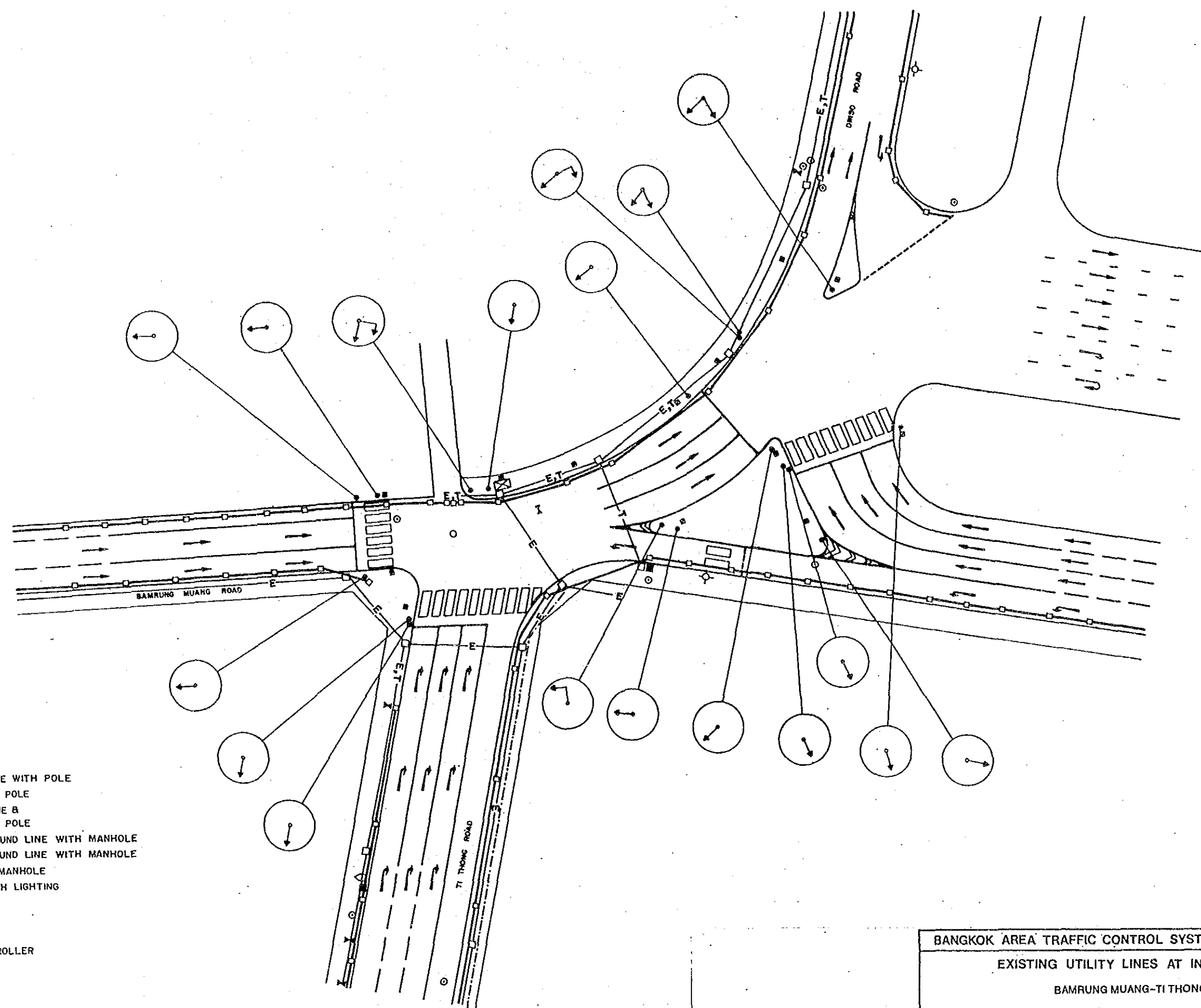


BANGKOK AREA TRAFFIC CONTROL SYSTEM PROJECT : STAGE I			
EXISTING UTILITY LINES AT INTERSECTION			
RATCHAPRAROP-SI AYUTTHAYA			
INTERSECTION NO	143	Survey In	MAY 1990
JICA Japan International Cooperation Agency	BMA Bangkok Metropolitan Administration	Scale	1 / 500
		Date	SEPTEMBER 90
		Drawing NO	6143
		Total	93 / 143



- LEGEND**
- E—□ ELECTRICAL POWER LINE WITH POLE
 - T—□ TELEPHONE LINE WITH POLE
 - E,T—□ ELECTRICAL POWER LINE & TELEPHONE LINE WITH POLE
 - ELECTRICAL UNDERGROUND LINE WITH MANHOLE
 - TELEPHONE UNDERGROUND LINE WITH MANHOLE
 - DRAINAGE LINE WITH MANHOLE
 - ⊕ ELECTRICAL POLE WITH LIGHTING
 - ⊙ LIGHTING POLE
 - ⊕ WATER SUPPLY VALVE
 - TRAFFIC SIGNAL POLE
 - ⊠ TRAFFIC SIGNAL CONTROLLER
 - ⊞ HAND HOLE
 - TELEPHONE CAB
 - ⏏ PUBLIC TELEPHONE

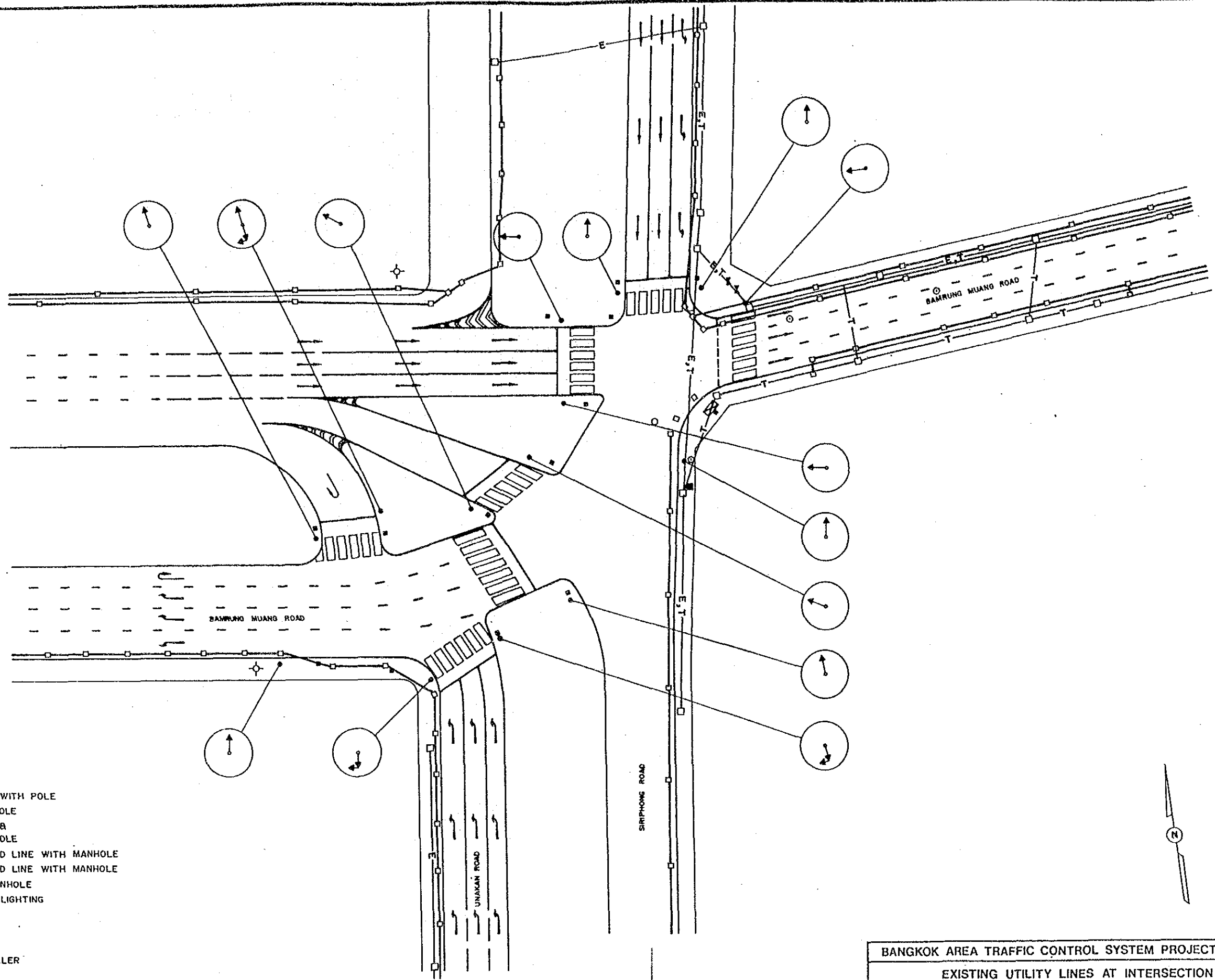
BANGKOK AREA TRAFFIC CONTROL SYSTEM PROJECT : STAGE I			
EXISTING UTILITY LINES AT INTERSECTION			
NA PHRA LAN-LAK MUANG-SANAM CHAI			
INTERSECTION NO	144	Survey In	MAY 1990
JICA Japan International Cooperation Agency	BMA Bangkok Metropolitan Administration	Scale	1 / 500
		Date	SEPTEMBER 90
		Drawing NO	B144
		Total	94 / 143



LEGEND

- E—□ ELECTRICAL POWER LINE WITH POLE
- T—□ TELEPHONE LINE WITH POLE
- E,T—□ ELECTRICAL POWER LINE & TELEPHONE LINE WITH POLE
- ELECTRICAL UNDERGROUND LINE WITH MANHOLE
- TELEPHONE UNDERGROUND LINE WITH MANHOLE
- DRAINAGE LINE WITH MANHOLE
- ⊕ ELECTRICAL POLE WITH LIGHTING
- ⊕ LIGHTING POLE
- ⊕ WATER SUPPLY VALVE
- TRAFFIC SIGNAL POLE
- ⊠ TRAFFIC SIGNAL CONTROLLER
- HAND HOLE
- TELEPHONE CAB
- ⊕ PUBLIC TELEPHONE

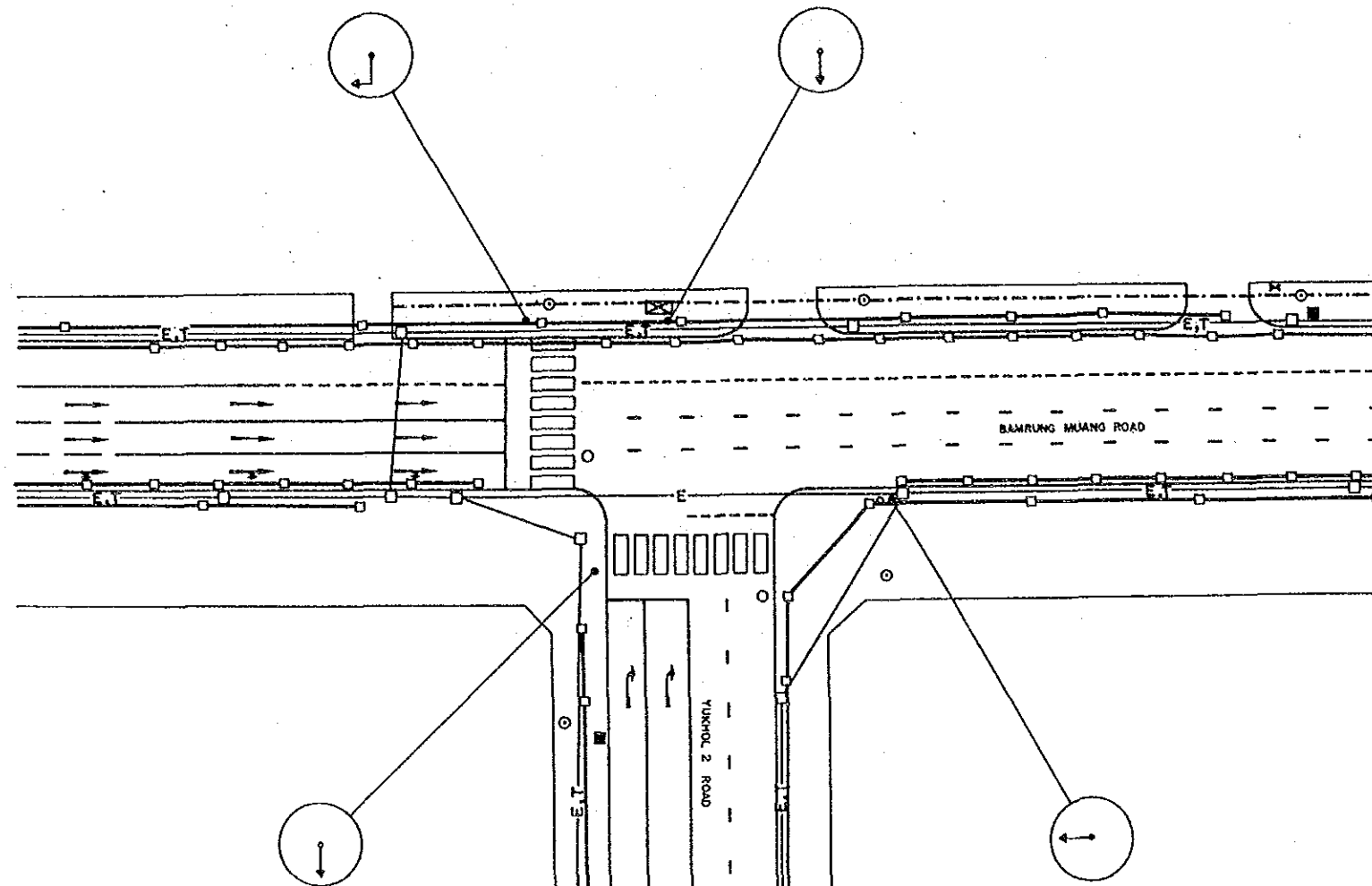
BANGKOK AREA TRAFFIC CONTROL SYSTEM PROJECT : STAGE I			
EXISTING UTILITY LINES AT INTERSECTION			
BAMRUNG MUANG-TI THONG			
INTERSECTION NO	147	Survey in	MAY 1990
JICA Japan International Cooperation Agency	BMA Bangkok Metropolitan Administration	Scale	1 / 500
		Date	SEPTEMBER 90
		Drawing NO	6147
		Total	95 / 143



LEGEND

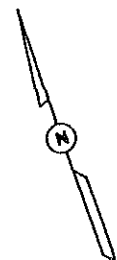
- E—□ ELECTRICAL POWER LINE WITH POLE
- T—□ TELEPHONE LINE WITH POLE
- E,T—□ ELECTRICAL POWER LINE & TELEPHONE LINE WITH POLE
- ELECTRICAL UNDERGROUND LINE WITH MANHOLE
- TELEPHONE UNDERGROUND LINE WITH MANHOLE
- DRAINAGE LINE WITH MANHOLE
- ⊕ ELECTRICAL POLE WITH LIGHTING
- ⊕ LIGHTING POLE
- ⋈ WATER SUPPLY VALVE
- TRAFFIC SIGNAL POLE
- ⊠ TRAFFIC SIGNAL CONTROLLER
- ⊠ HAND HOLE
- ⊠ TELEPHONE CAB
- ⊠ PUBLIC TELEPHONE

BANGKOK AREA TRAFFIC CONTROL SYSTEM PROJECT : STAGE I			
EXISTING UTILITY LINES AT INTERSECTION			
BAMRUNG MUANG-UNAKAN			
INTERSECTION NO	148	Survey in	MAY 1990
JICA Japan International Cooperation Agency	BMA Bangkok Metropolitan Administration	Scale	1 / 500
		Date	(SEPTEMBER '90
		Drawing No	614B
		Total	96 / 143

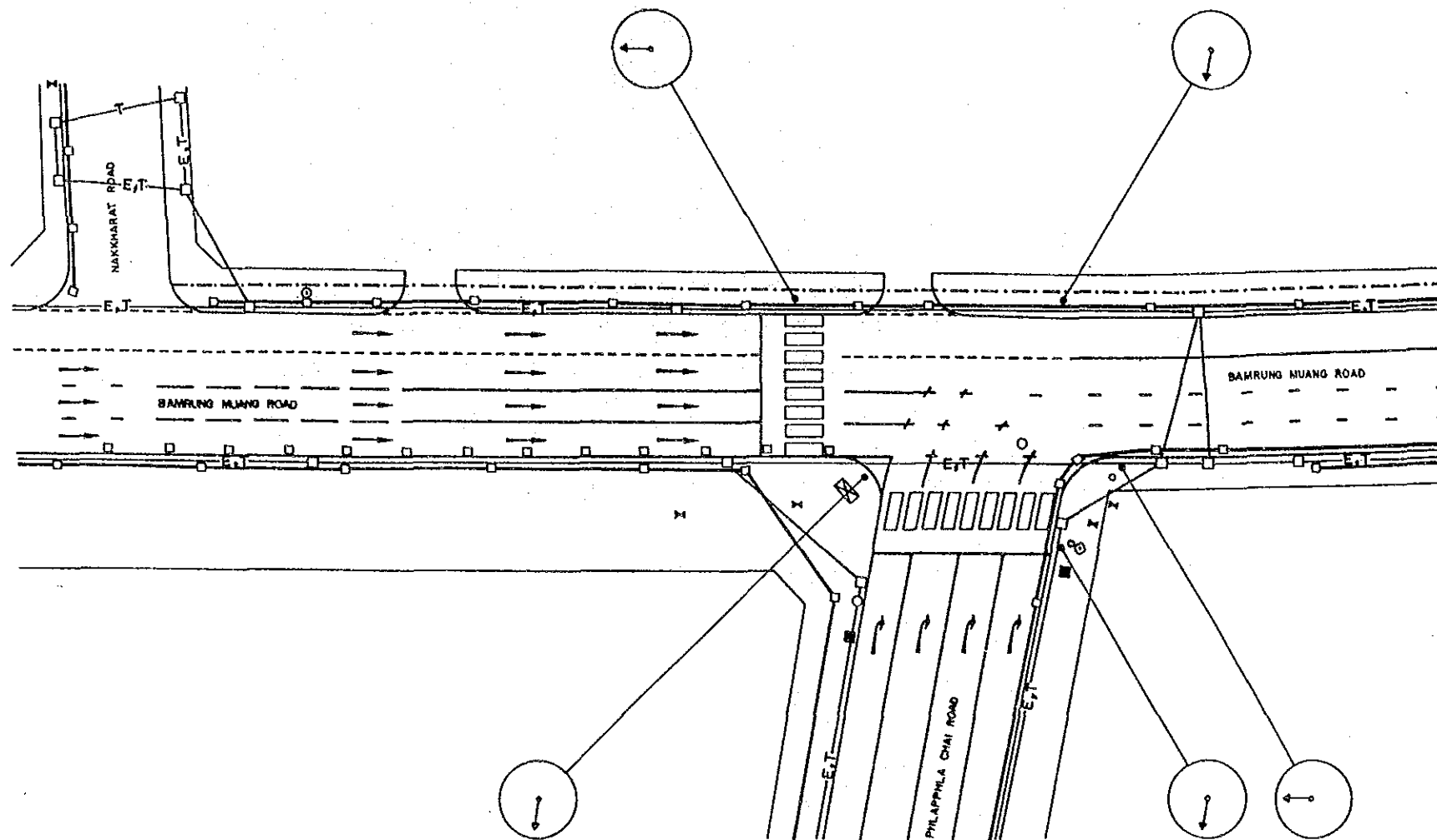


LEGEND

- E—□ ELECTRICAL POWER LINE WITH POLE
- T—□ TELEPHONE LINE WITH POLE
- E,T—□ ELECTRICAL POWER LINE & TELEPHONE LINE WITH POLE
- ELECTRICAL UNDERGROUND LINE WITH MANHOLE
- TELEPHONE UNDERGROUND LINE WITH MANHOLE
- DRAINAGE LINE WITH MANHOLE
- ⊕ ELECTRICAL POLE WITH LIGHTING
- ⊕ LIGHTING POLE
- ⋈ WATER SUPPLY VALVE
- TRAFFIC SIGNAL POLE
- ⊠ TRAFFIC SIGNAL CONTROLLER
- HAND HOLE
- TELEPHONE CAB
- ⌒ PUBLIC TELEPHONE

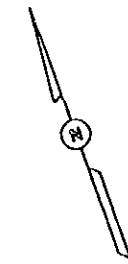


BANGKOK AREA TRAFFIC CONTROL SYSTEM PROJECT : STAGE I			
EXISTING UTILITY LINES AT INTERSECTION			
YUKHOL 2-BAMRUNG MUANG			
INTERSECTION NO	160	Survey In	MAY 1990
JICA Japan International Cooperation Agency	BMA Bangkok Metropolitan Administration	Scale	1 / 500
		Date	SEPTEMBER 90
		Drawing No	6160
		Total	97 / 143

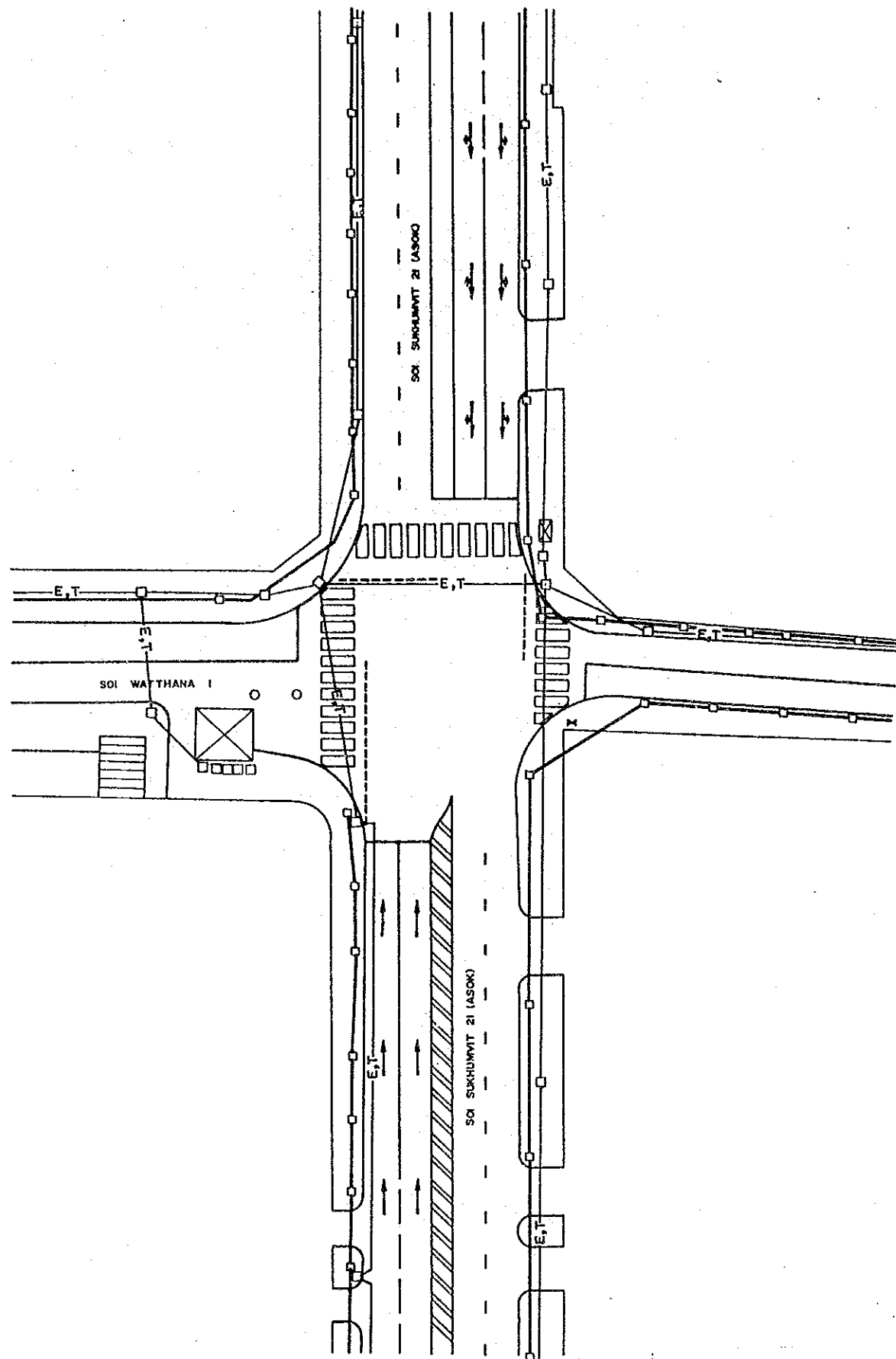


LEGEND

- E—□ ELECTRICAL POWER LINE WITH POLE
- T—□ TELEPHONE LINE WITH POLE
- E,T—□ ELECTRICAL POWER LINE & TELEPHONE LINE WITH POLE
- ELECTRICAL UNDERGROUND LINE WITH MANHOLE
- TELEPHONE UNDERGROUND LINE WITH MANHOLE
- DRAINAGE LINE WITH MANHOLE
- ⊕ ELECTRICAL POLE WITH LIGHTING
- ⊙ LIGHTING POLE
- ⋈ WATER SUPPLY VALVE
- TRAFFIC SIGNAL POLE
- ⊞ TRAFFIC SIGNAL CONTROLLER
- ⊠ HAND HOLE
- TELEPHONE CAB
- ⏏ PUBLIC TELEPHONE



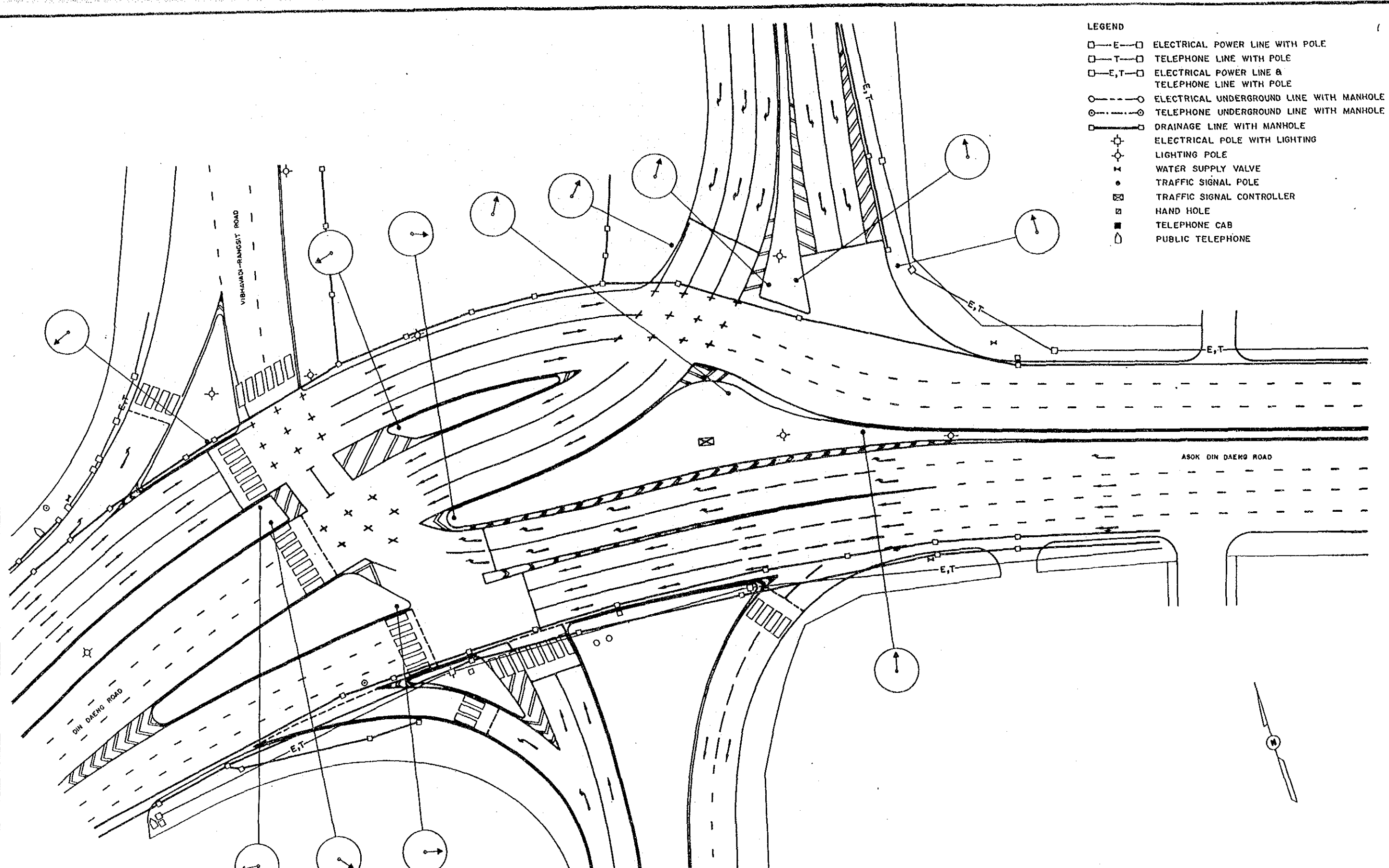
BANGKOK AREA TRAFFIC CONTROL SYSTEM PROJECT : STAGE I			
EXISTING UTILITY LINES AT INTERSECTION			
PHLAPPLA CHAI-BAMRUNG MUANG			
INTERSECTION No	161	Survey In	MAY 1990
JICA Japan International Cooperation Agency	BMA Bangkok Metropolitan Administration	Scale	1 / 500
		Drawing No	6161
		Date	SEPTEMBER/90
		Total	98 / 143



- LEGEND**
- E—□ ELECTRICAL POWER LINE WITH POLE
 - T—□ TELEPHONE LINE WITH POLE
 - E,T—□ ELECTRICAL POWER LINE & TELEPHONE LINE WITH POLE
 - ELECTRICAL UNDERGROUND LINE WITH MANHOLE
 - TELEPHONE UNDERGROUND LINE WITH MANHOLE
 - DRAINAGE LINE WITH MANHOLE
 - ⊕ ELECTRICAL POLE WITH LIGHTING
 - ⊕ LIGHTING POLE
 - ⋈ WATER SUPPLY VALVE
 - TRAFFIC SIGNAL POLE
 - ⊠ TRAFFIC SIGNAL CONTROLLER
 - ⊞ HAND HOLE
 - TELEPHONE CAB
 - △ PUBLIC TELEPHONE



BANGKOK AREA TRAFFIC CONTROL SYSTEM PROJECT : STAGE I			
EXISTING UTILITY LINES AT INTERSECTION			
SOI SUKUMVIT 21 (ASOK)-SOI WATTHANA 1			
INTERSECTION NO	162	Survey In	MAY 1990
JICA	BMA	Scale	1 / 500
Japan International	Bangkok Metropolitan	Drawing No	6162
Cooperation Agency	Administration	Date	SEPTEMBER, 1990
		Total	99 / 143

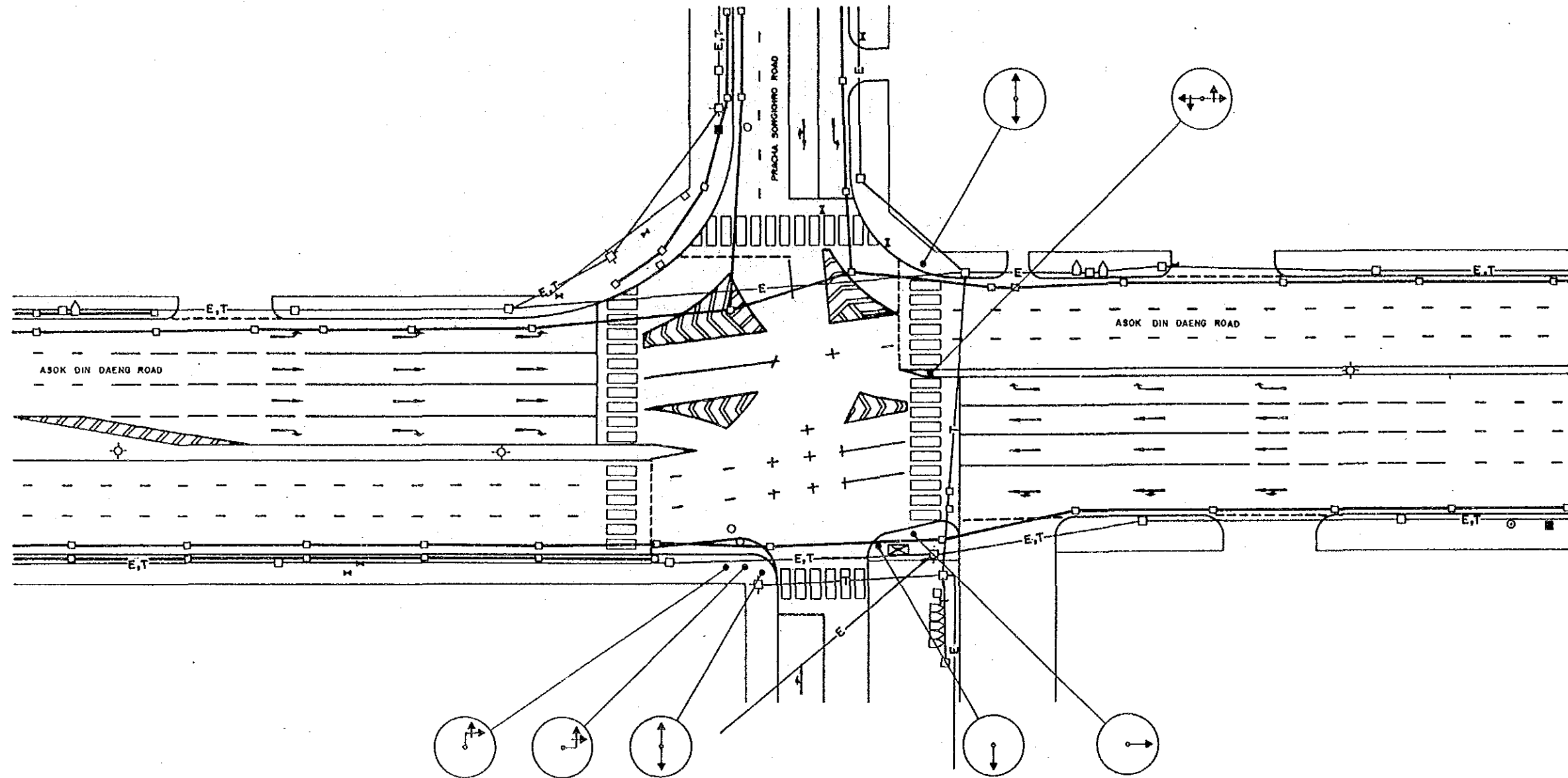


- LEGEND**
- E—□ ELECTRICAL POWER LINE WITH POLE
 - T—□ TELEPHONE LINE WITH POLE
 - E,T—□ ELECTRICAL POWER LINE & TELEPHONE LINE WITH POLE
 - ELECTRICAL UNDERGROUND LINE WITH MANHOLE
 - TELEPHONE UNDERGROUND LINE WITH MANHOLE
 - DRAINAGE LINE WITH MANHOLE
 - ⊕ LIGHTING POLE
 - ⊕ WATER SUPPLY VALVE
 - ⊕ TRAFFIC SIGNAL POLE
 - ⊕ TRAFFIC SIGNAL CONTROLLER
 - ⊕ HAND HOLE
 - ⊕ TELEPHONE CAB
 - ⊕ PUBLIC TELEPHONE

BANGKOK AREA TRAFFIC CONTROL SYSTEM PROJECT: STAGE I

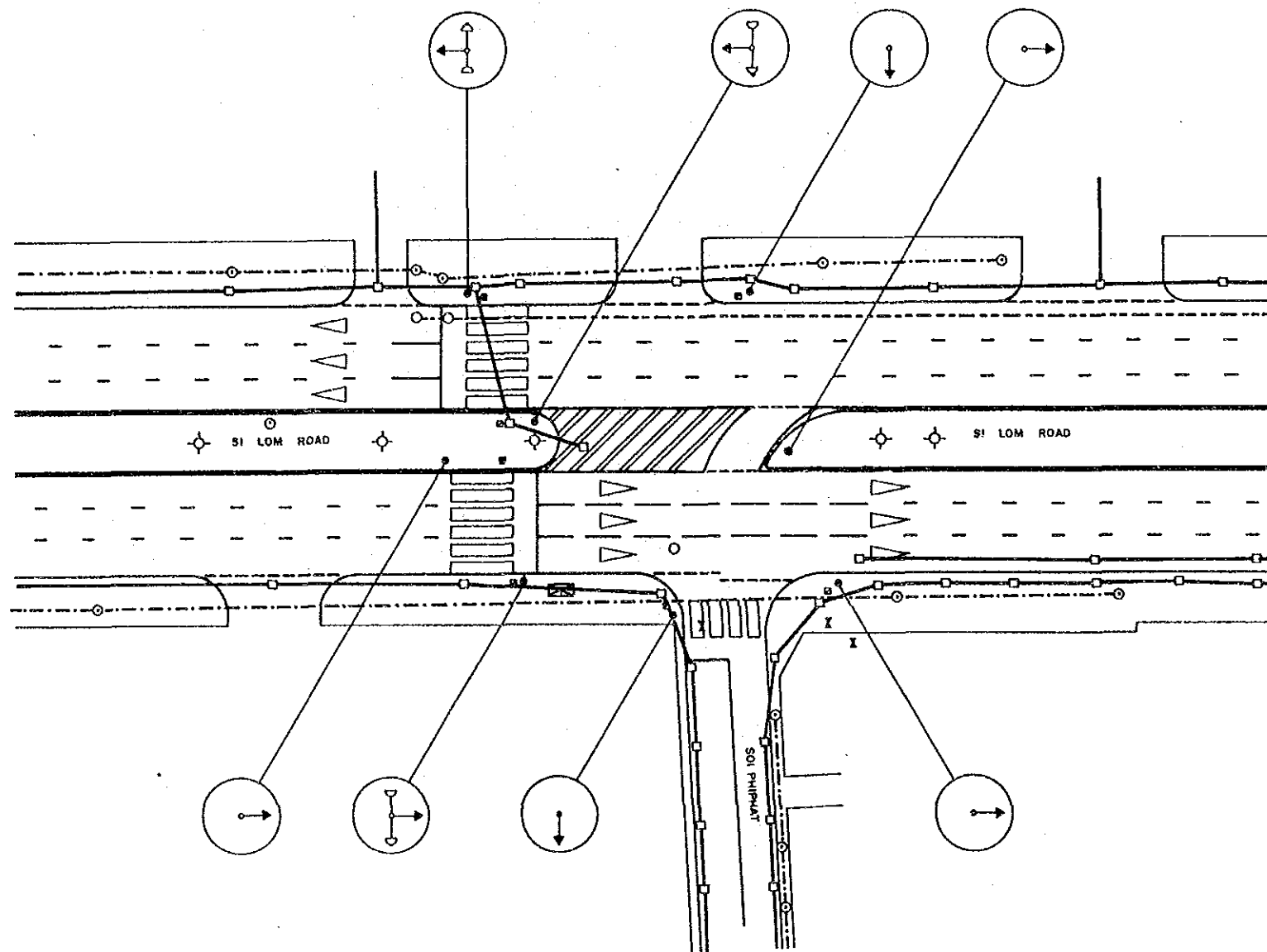
EXISTING UTILITY LINES AT INTERSECTION
VIBHAVADI RANGSIT-DIN DAENG

INTERSECTION NO		163		Survey In		MAY 1990	
JICA	BMA	Scale	1 / 500	Drawing No	6163		
Japan International Cooperation Agency	Bangkok Metropolitan Administration	Date	(SEPTEMBER/90)	Total	100 / 143		

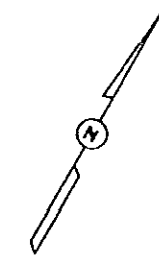


- LEGEND**
- E—□ ELECTRICAL POWER LINE WITH POLE
 - T—□ TELEPHONE LINE WITH POLE
 - E,T—□ ELECTRICAL POWER LINE & TELEPHONE LINE WITH POLE
 - ELECTRICAL UNDERGROUND LINE WITH MANHOLE
 - TELEPHONE UNDERGROUND LINE WITH MANHOLE
 - DRAINAGE LINE WITH MANHOLE
 - ⊕ ELECTRICAL POLE WITH LIGHTING
 - ⊙ LIGHTING POLE
 - ⋈ WATER SUPPLY VALVE
 - TRAFFIC SIGNAL POLE
 - ⊠ TRAFFIC SIGNAL CONTROLLER
 - ⊞ HAND HOLE
 - TELEPHONE CAB
 - △ PUBLIC TELEPHONE

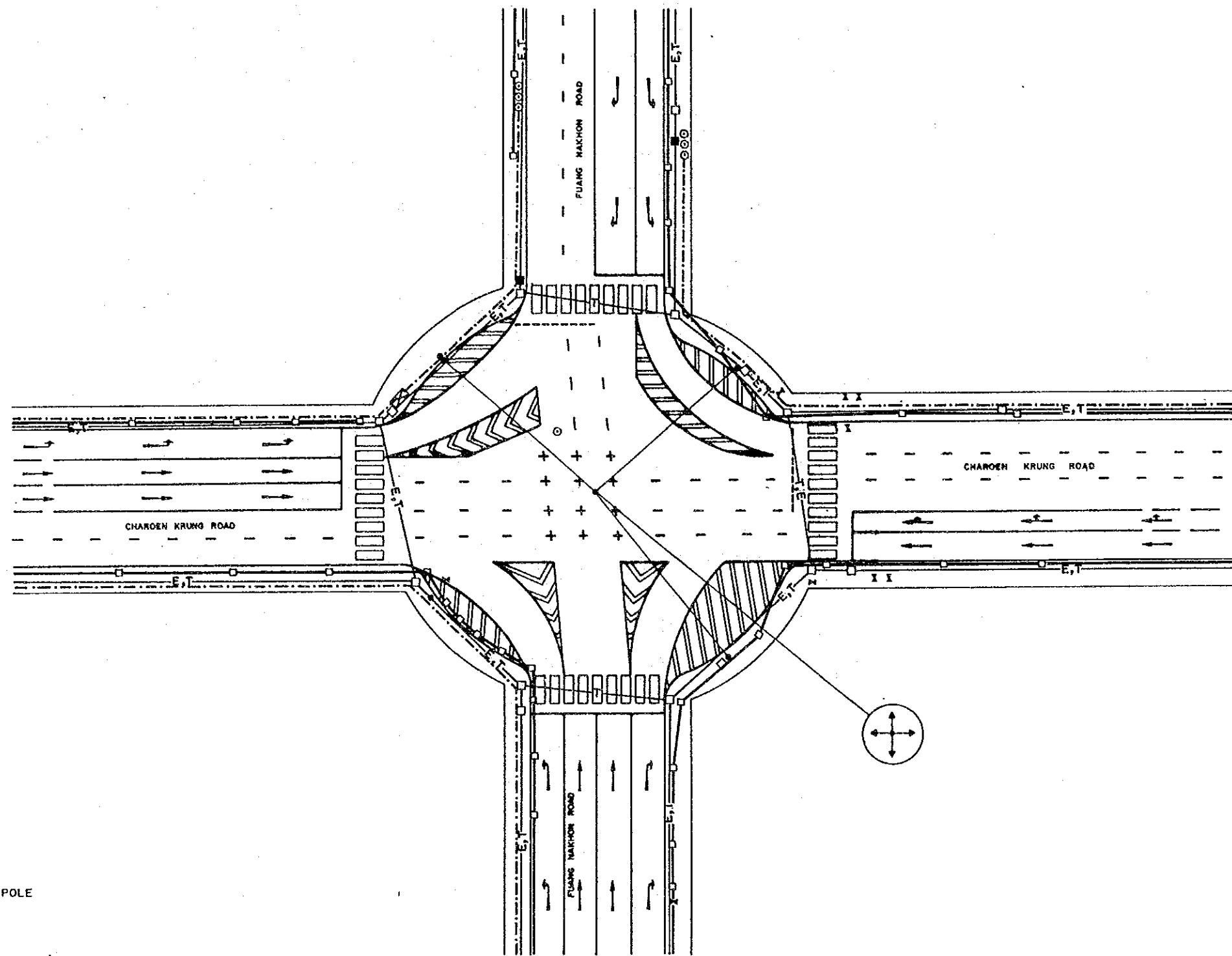
BANGKOK AREA TRAFFIC CONTROL SYSTEM PROJECT : STAGE I			
EXISTING UTILITY LINES AT INTERSECTION			
PRACHA SONGKHRO-ASOK DIN DAENG			
INTERSECTION NO	164	Survey In	MAY 1980
JICA	BMA	Scale	1 / 500
Japan International	Bangkok Metropolitan	Drawing No	6164
Cooperation Agency	Administration	Date	(SEPTEMBER '80)
		Total	101 / 143



- LEGEND**
- E—□ ELECTRICAL POWER LINE WITH POLE
 - T—□ TELEPHONE LINE WITH POLE
 - E,T—□ ELECTRICAL POWER LINE & TELEPHONE LINE WITH POLE
 - ELECTRICAL UNDERGROUND LINE WITH MANHOLE
 - TELEPHONE UNDERGROUND LINE WITH MANHOLE
 - DRAINAGE LINE WITH MANHOLE
 - ⊕ ELECTRICAL POLE WITH LIGHTING
 - ⊕ LIGHTING POLE
 - ⊕ WATER SUPPLY VALVE
 - TRAFFIC SIGNAL POLE
 - ⊗ TRAFFIC SIGNAL CONTROLLER
 - HAND HOLE
 - TELEPHONE CAB
 - △ PUBLIC TELEPHONE



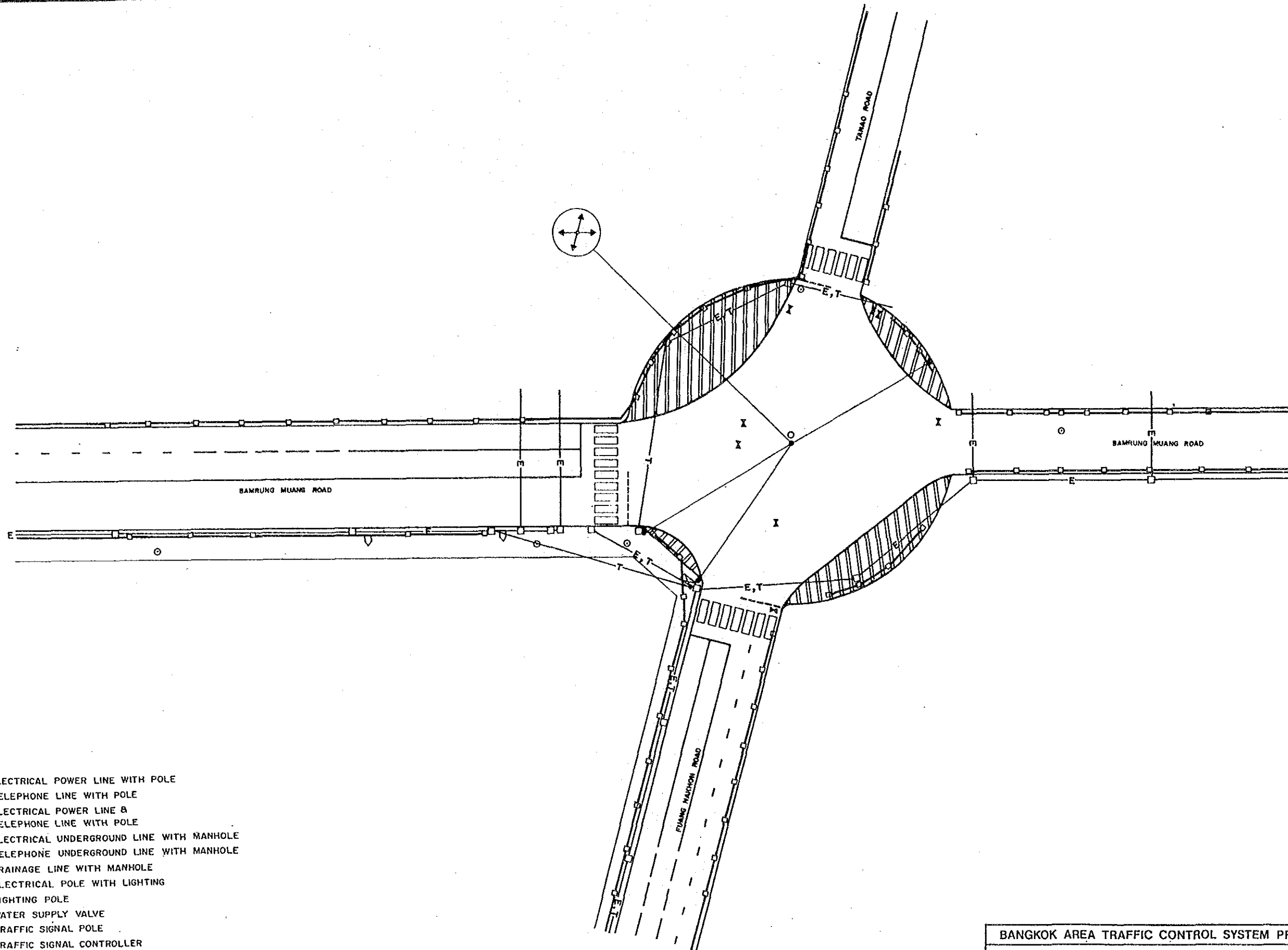
BANGKOK AREA TRAFFIC CONTROL SYSTEM PROJECT: STAGE I			
EXISTING UTILITY LINES AT INTERSECTION			
SI LOM-SOI PHIPHAT (BANGKOK BANK)			
INTERSECTION NO	175	Survey In	MAY 1990
JICA Japan International Cooperation Agency	BMA Bangkok Metropolitan Administration	Scale	1 / 500
		Date	SEPTEMBER/90
		Drawing No	6175
		Total	102 / 143



LEGEND

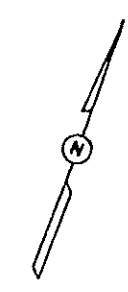
- E—□ ELECTRICAL POWER LINE WITH POLE
- T—□ TELEPHONE LINE WITH POLE
- E,T—□ ELECTRICAL POWER LINE & TELEPHONE LINE WITH POLE
- ELECTRICAL UNDERGROUND LINE WITH MANHOLE
- TELEPHONE UNDERGROUND LINE WITH MANHOLE
- DRAINAGE LINE WITH MANHOLE
- ⊕ ELECTRICAL POLE WITH LIGHTING
- ⊙ LIGHTING POLE
- ⊕ WATER SUPPLY VALVE
- TRAFFIC SIGNAL POLE
- ⊠ TRAFFIC SIGNAL CONTROLLER
- ◻ HAND HOLE
- TELEPHONE CAB
- △ PUBLIC TELEPHONE

BANGKOK AREA TRAFFIC CONTROL SYSTEM PROJECT : STAGE I			
EXISTING UTILITY LINES AT INTERSECTION			
FUANG NAKHON-CHAROEN KRUNG			
INTERSECTION NO	176	Survey In	MAY 1980.
JICA	BMA	Scale	1 / 500
Japan International Cooperation Agency	Bangkok Metropolitan Administration	Drawing NO	6176
		Date	SEPTEMBER 80
		Total	103 / 143

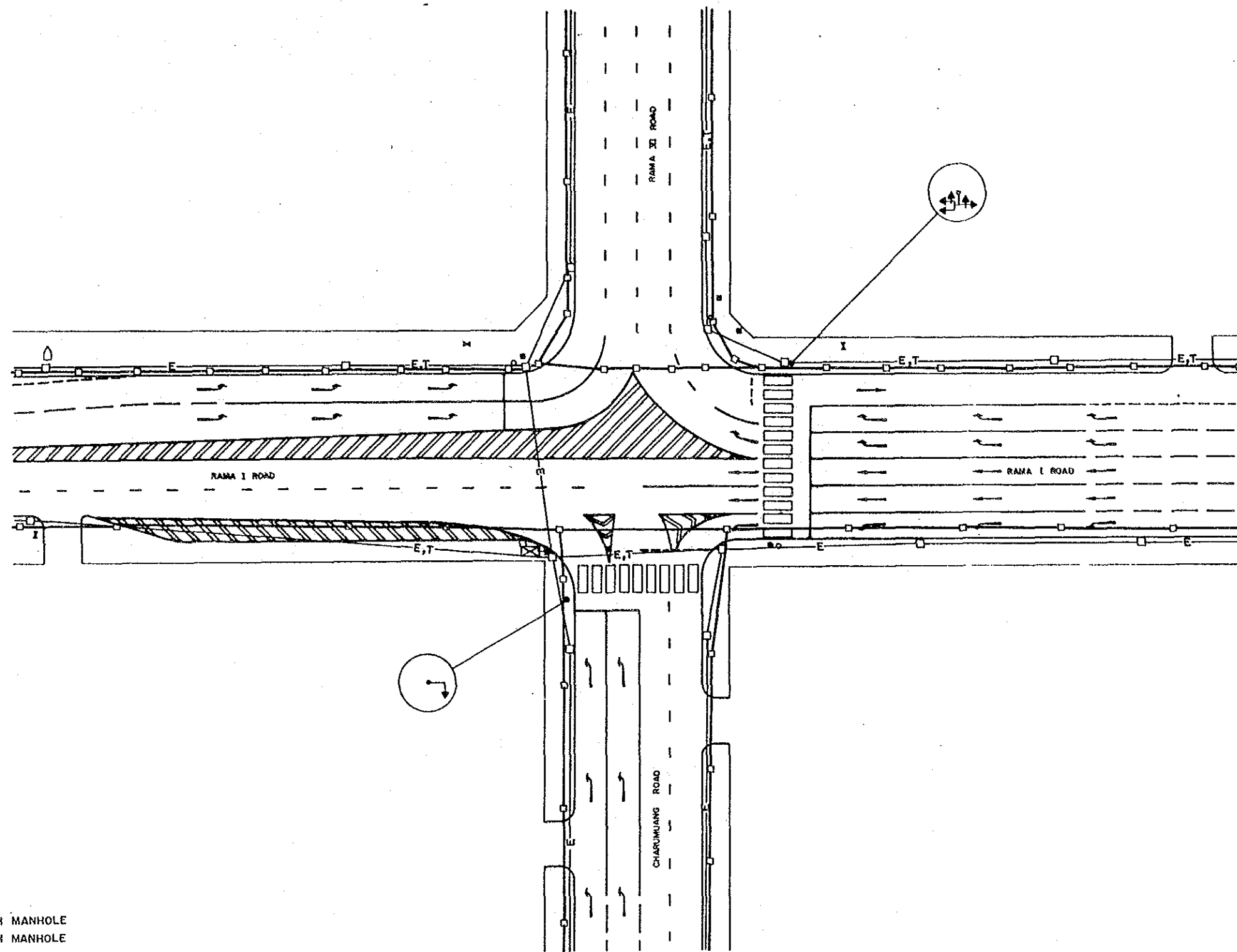


LEGEND

- E—□ ELECTRICAL POWER LINE WITH POLE
- T—□ TELEPHONE LINE WITH POLE
- E,T—□ ELECTRICAL POWER LINE & TELEPHONE LINE WITH POLE
- ELECTRICAL UNDERGROUND LINE WITH MANHOLE
- TELEPHONE UNDERGROUND LINE WITH MANHOLE
- DRAINAGE LINE WITH MANHOLE
- ⊕ ELECTRICAL POLE WITH LIGHTING
- LIGHTING POLE
- × WATER SUPPLY VALVE
- TRAFFIC SIGNAL POLE
- ⊠ TRAFFIC SIGNAL CONTROLLER
- HAND HOLE
- TELEPHONE CAB
- ⏏ PUBLIC TELEPHONE



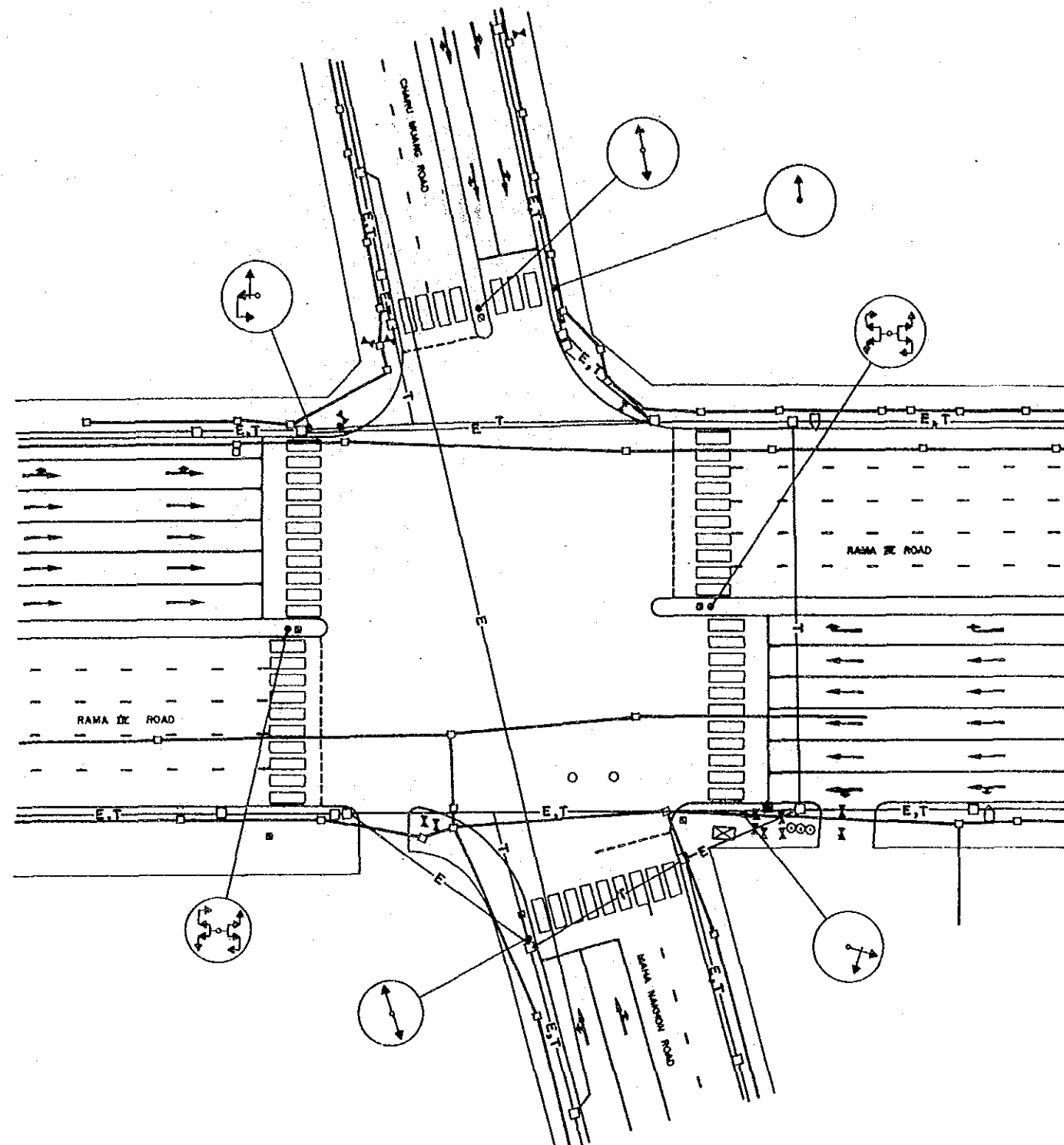
BANGKOK AREA TRAFFIC CONTROL SYSTEM PROJECT : STAGE I			
EXISTING UTILITY LINES AT INTERSECTION			
TANAO-BAMRUNG MUANG-FUANG NAKHON			
INTERSECTION NO	177	Survey In	MAY 1990
JICA Japan International Cooperation Agency	BMA Bangkok Metropolitan Administration	Scale	1 / 500
		Date	SEPTEMBER '90
		Drawing No	8177
		Total	104 / 143



LEGEND

- E—□ ELECTRICAL POWER LINE WITH POLE
- T—□ TELEPHONE LINE WITH POLE
- E,T—□ ELECTRICAL POWER LINE & TELEPHONE LINE WITH POLE
- ELECTRICAL UNDERGROUND LINE WITH MANHOLE
- TELEPHONE UNDERGROUND LINE WITH MANHOLE
- DRAINAGE LINE WITH MANHOLE
- ⊙ ELECTRICAL POLE WITH LIGHTING
- ⊙ LIGHTING POLE
- ⊕ WATER SUPPLY VALVE
- TRAFFIC SIGNAL POLE
- ⊠ TRAFFIC SIGNAL CONTROLLER
- ⊞ HAND HOLE
- TELEPHONE CAB
- △ PUBLIC TELEPHONE

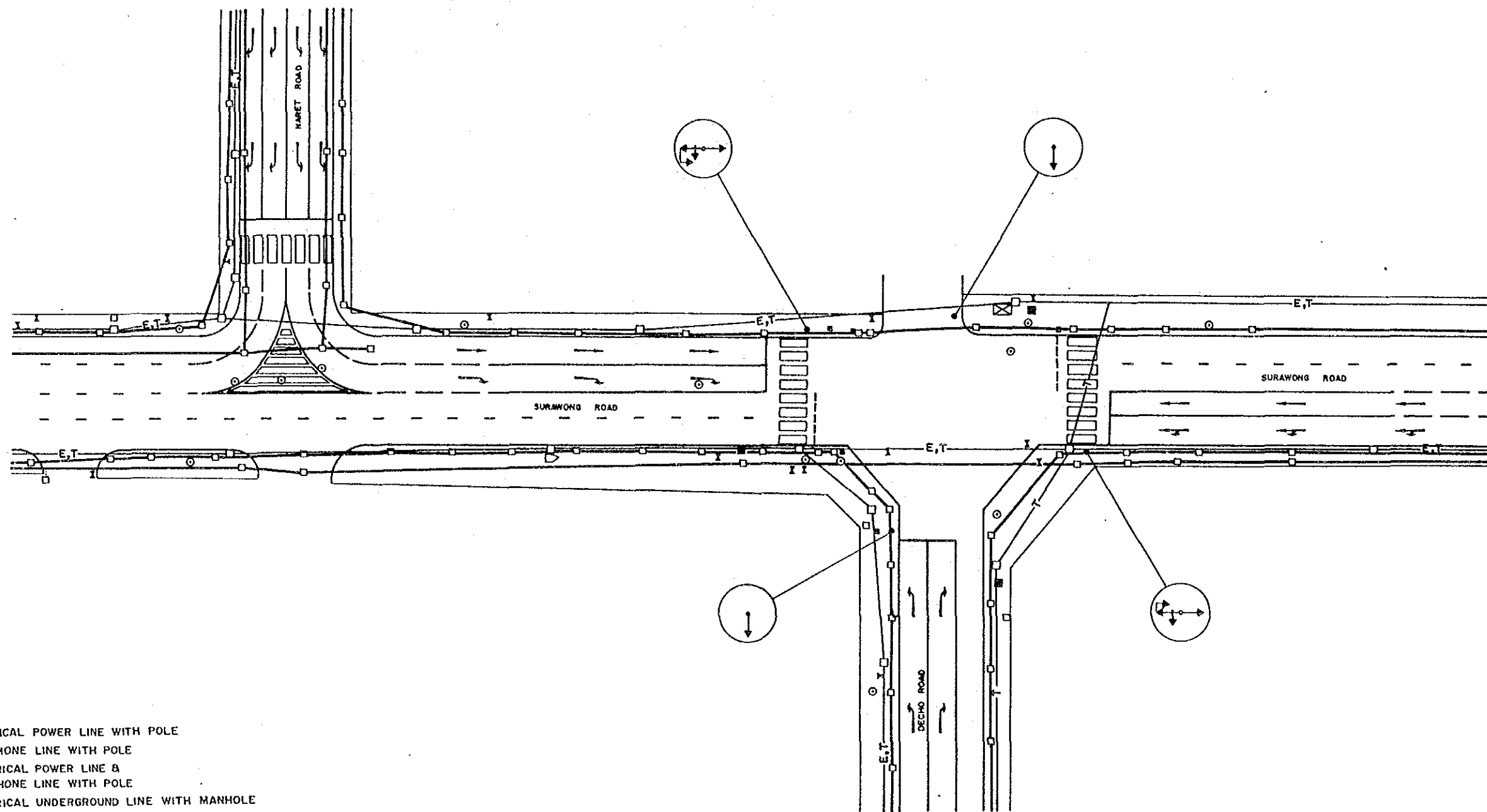
BANGKOK AREA TRAFFIC CONTROL SYSTEM PROJECT : STAGE I			
EXISTING UTILITY LINES AT INTERSECTION			
RAMA I-RAMA VI-CHARU MUANG			
INTERSECTION NO	184	Survey In	MAY 1990
JICA Japan International Cooperation Agency	BMA Bangkok Metropolitan Administration	Scale	1 / 500
		Date	SEPTEMBER 1990
		Drawing NO	6184
		Total	105 / 143



LEGEND

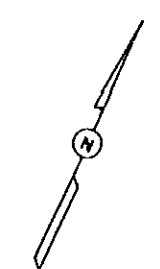
- E—□ ELECTRICAL POWER LINE WITH POLE
- T—□ TELEPHONE LINE WITH POLE
- E,T—□ ELECTRICAL POWER LINE & TELEPHONE LINE WITH POLE
- ELECTRICAL UNDERGROUND LINE WITH MANHOLE
- TELEPHONE UNDERGROUND LINE WITH MANHOLE
- DRAINAGE LINE WITH MANHOLE
- ⊕ ELECTRICAL POLE WITH LIGHTING
- ⊙ LIGHTING POLE
- ⊕ WATER SUPPLY VALVE
- TRAFFIC SIGNAL POLE
- ⊠ TRAFFIC SIGNAL CONTROLLER
- ⊞ HAND HOLE
- ⊞ TELEPHONE CAB
- △ PUBLIC TELEPHONE

BANGKOK AREA TRAFFIC CONTROL SYSTEM PROJECT : STAGE I			
EXISTING UTILITY LINES AT INTERSECTION			
RAMA IV-CHARU MUANG-MAHA NAKHON			
INTERSECTION NO	185	Survey In	MAY 1990
JICA Japan International Cooperation Agency	BMA Bangkok Metropolitan Administration	Scale	1 / 500
		Date	SEPTEMBER 90
		Drawing No	6185
		Total	106 / 143

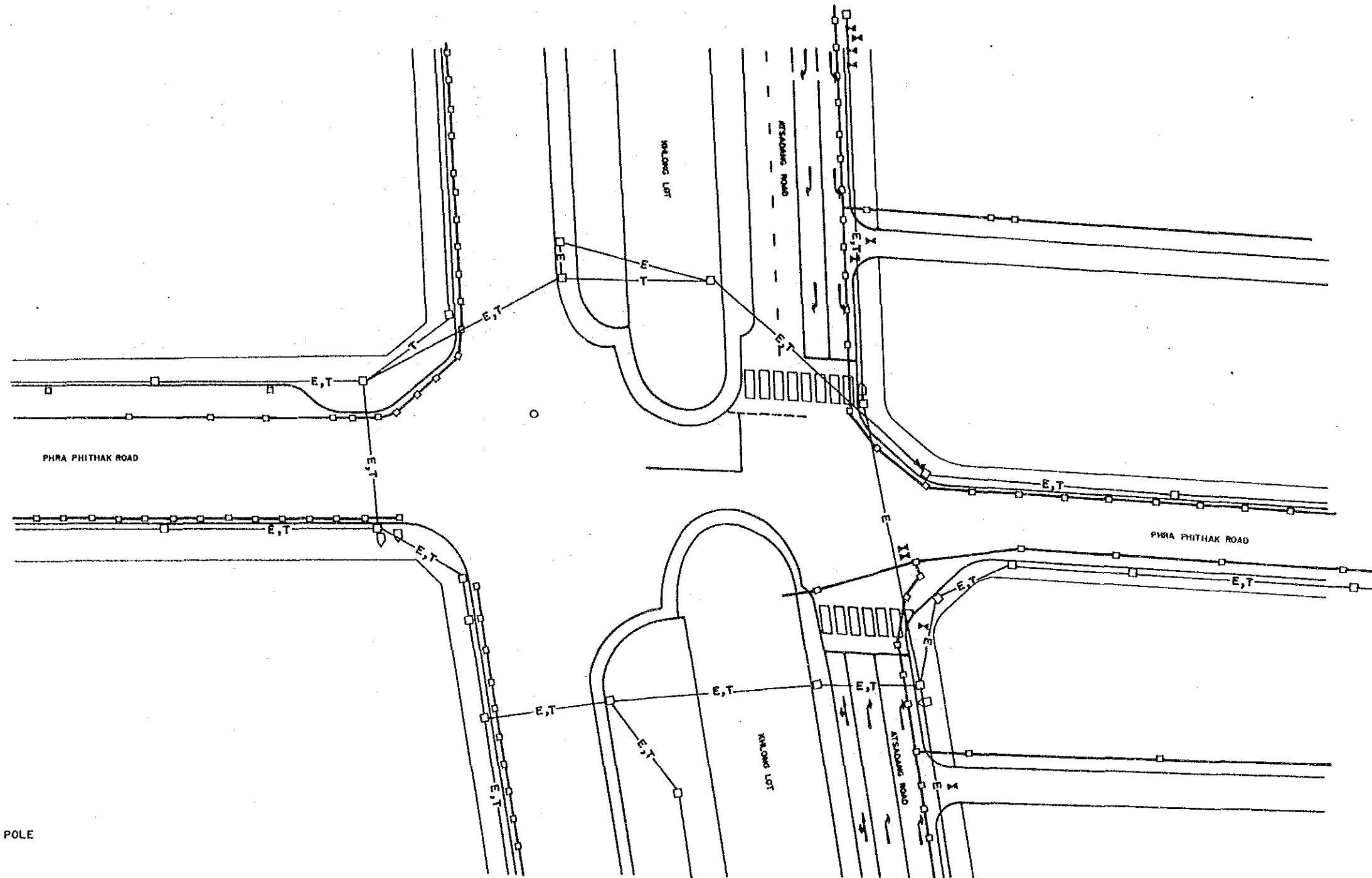


LEGEND

- E—□ ELECTRICAL POWER LINE WITH POLE
- T—□ TELEPHONE LINE WITH POLE
- E,T—□ ELECTRICAL POWER LINE & TELEPHONE LINE WITH POLE
- ELECTRICAL UNDERGROUND LINE WITH MANHOLE
- TELEPHONE UNDERGROUND LINE WITH MANHOLE
- DRAINAGE LINE WITH MANHOLE
- ⊕ ELECTRICAL POLE WITH LIGHTING
- ⊙ LIGHTING POLE
- ⋈ WATER SUPPLY VALVE
- TRAFFIC SIGNAL POLE
- ⊞ TRAFFIC SIGNAL CONTROLLER
- HAND HOLE
- TELEPHONE CAB
- ⏏ PUBLIC TELEPHONE



BANGKOK AREA TRAFFIC CONTROL SYSTEM PROJECT: STAGE I			
EXISTING UTILITY LINES AT INTERSECTION			
SURAWONG-DECHO			
INTERSECTION NO	188	Survey in	MAY 1990
JICA Japan International Cooperation Agency	BMA Bangkok Metropolitan Administration	Scale	1 / 500
		Date	SEPTEMBER 1990
		Drawing No	6186
		Total	107 / 143



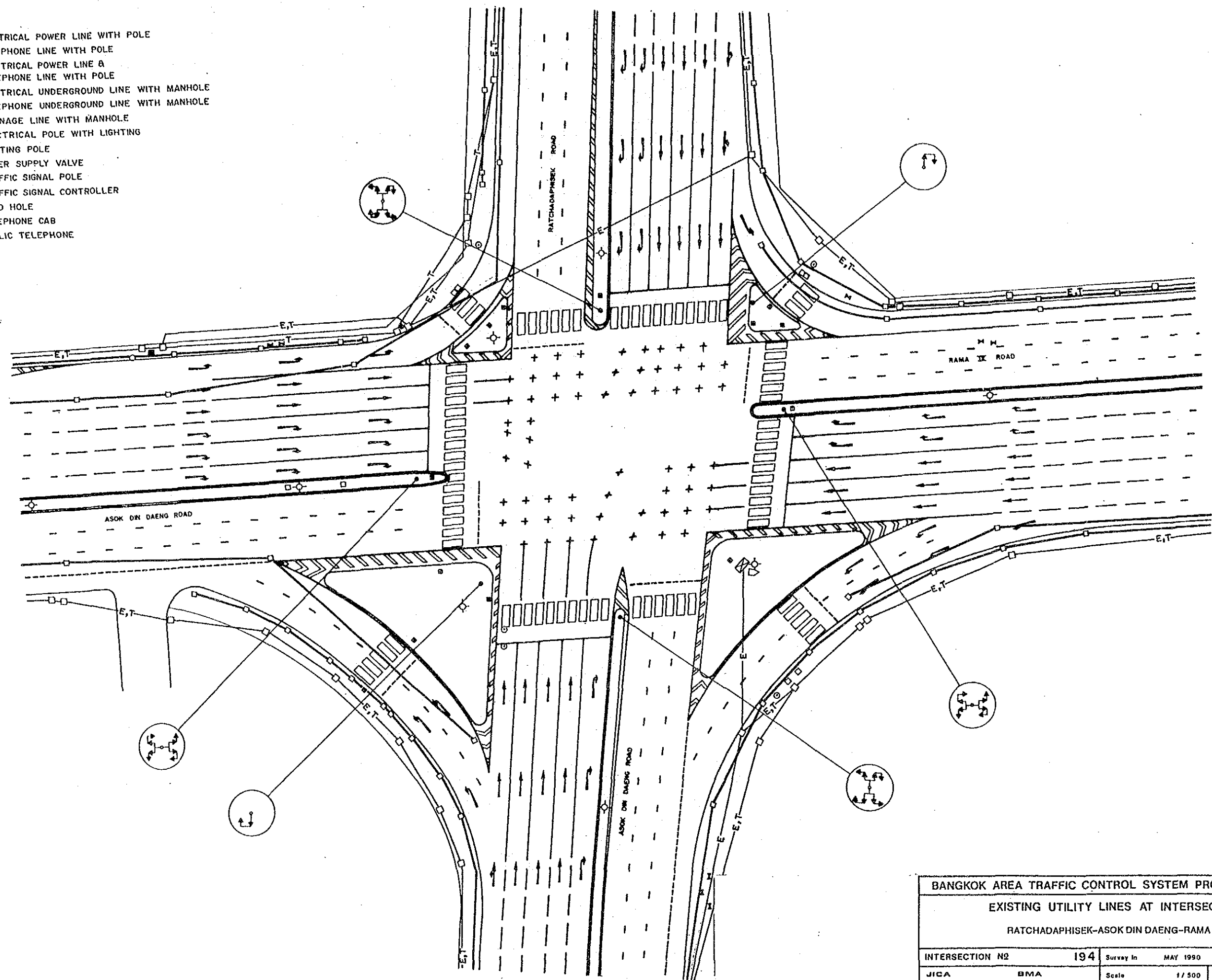
LEGEND

- E—□ ELECTRICAL POWER LINE WITH POLE
- T—□ TELEPHONE LINE WITH POLE
- E,T—□ ELECTRICAL POWER LINE & TELEPHONE LINE WITH POLE
- ELECTRICAL UNDERGROUND LINE WITH MANHOLE
- TELEPHONE UNDERGROUND LINE WITH MANHOLE
- DRAINAGE LINE WITH MANHOLE
- ⊕ ELECTRICAL POLE WITH LIGHTING
- ⊙ LIGHTING POLE
- ⋈ WATER SUPPLY VALVE
- TRAFFIC SIGNAL POLE
- ⊠ TRAFFIC SIGNAL CONTROLLER
- ⊞ HAND HOLE
- TELEPHONE CAB
- ⌒ PUBLIC TELEPHONE

BANGKOK AREA TRAFFIC CONTROL SYSTEM PROJECT: STAGE I			
EXISTING UTILITY LINES AT INTERSECTION			
ATSDANG-PHRA PHITHAK			
INTERSECTION NO	191	Survey In	MAY 1990
JICA Japan International Cooperation Agency	BMA Bangkok Metropolitan Administration	Scale	1/500
		Drawing No	6191
		Date	SEPTEMBER/90
		Total	109/143

LEGEND

- E—□ ELECTRICAL POWER LINE WITH POLE
- T—□ TELEPHONE LINE WITH POLE
- E,T—□ ELECTRICAL POWER LINE & TELEPHONE LINE WITH POLE
- ELECTRICAL UNDERGROUND LINE WITH MANHOLE
- TELEPHONE UNDERGROUND LINE WITH MANHOLE
- DRAINAGE LINE WITH MANHOLE
- ⊕ ELECTRICAL POLE WITH LIGHTING
- ⊕ LIGHTING POLE
- × WATER SUPPLY VALVE
- TRAFFIC SIGNAL POLE
- ⊠ TRAFFIC SIGNAL CONTROLLER
- ⊞ HAND HOLE
- TELEPHONE CAB
- ⌒ PUBLIC TELEPHONE

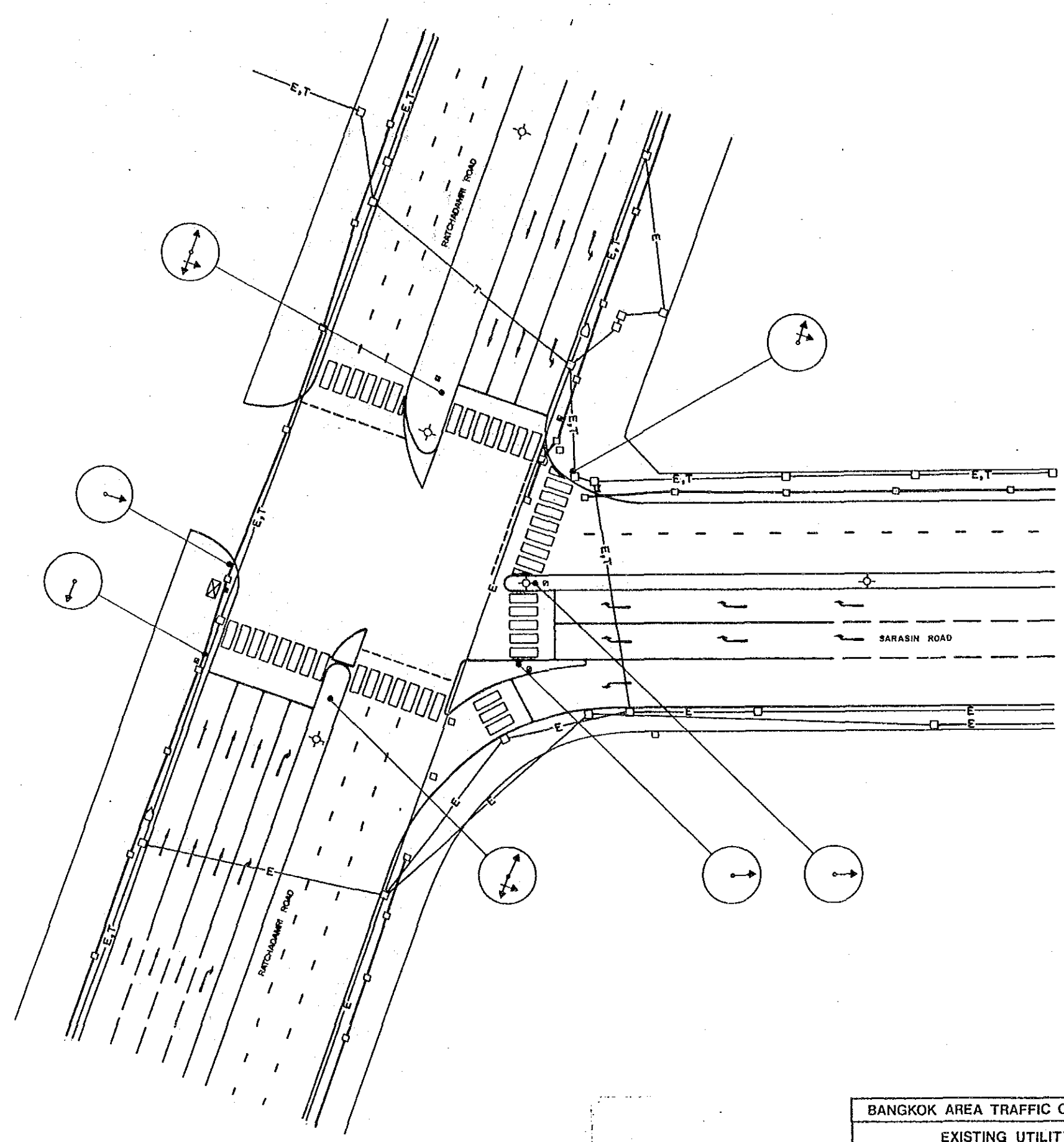


BANGKOK AREA TRAFFIC CONTROL SYSTEM PROJECT: STAGE I

EXISTING UTILITY LINES AT INTERSECTION

RATCHADAPHISEK-ASOK DIN DAENG-RAMA IX

INTERSECTION N2	194	Survey In	MAY 1990
JICA Japan International Cooperation Agency	BMA Bangkok Metropolitan Administration	Scale	1 / 500
		Drawing No	6194
		Date	SEPTEMBER '90
		Total	110 / 143

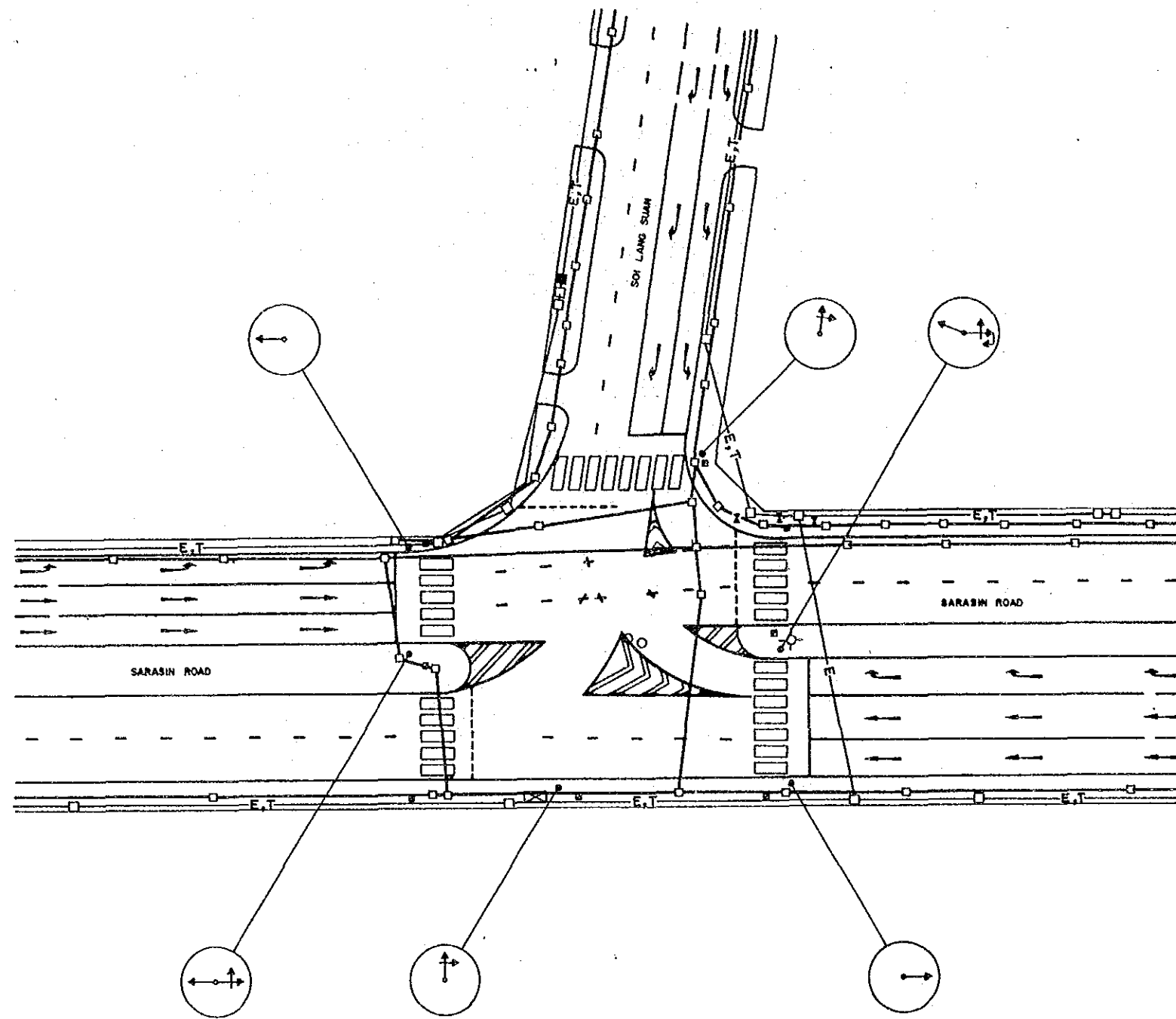


LEGEND

- E—□ ELECTRICAL POWER LINE WITH POLE
- T—□ TELEPHONE LINE WITH POLE
- E,T—□ ELECTRICAL POWER LINE & TELEPHONE LINE WITH POLE
- ELECTRICAL UNDERGROUND LINE WITH MANHOLE
- TELEPHONE UNDERGROUND LINE WITH MANHOLE
- DRAINAGE LINE WITH MANHOLE
- ⊕ ELECTRICAL POLE WITH LIGHTING
- ⊕ LIGHTING POLE
- ⊕ WATER SUPPLY VALVE
- TRAFFIC SIGNAL POLE
- ⊠ TRAFFIC SIGNAL CONTROLLER
- ⊞ HAND HOLE
- TELEPHONE CAB
- △ PUBLIC TELEPHONE

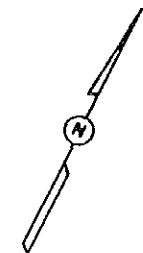


BANGKOK AREA TRAFFIC CONTROL SYSTEM PROJECT : STAGE I			
EXISTING UTILITY LINES AT INTERSECTION			
SARASIN-RATCHADAMRI			
INTERSECTION NO	196	Survey In	MAY 1990
JICA	BMA	Scale	1 / 500
Japan International	Bangkok Metropolitan	Drawing No	0196
Cooperation Agency	Administration	Date	SEPTEMBER 90
		Total	111 / 143

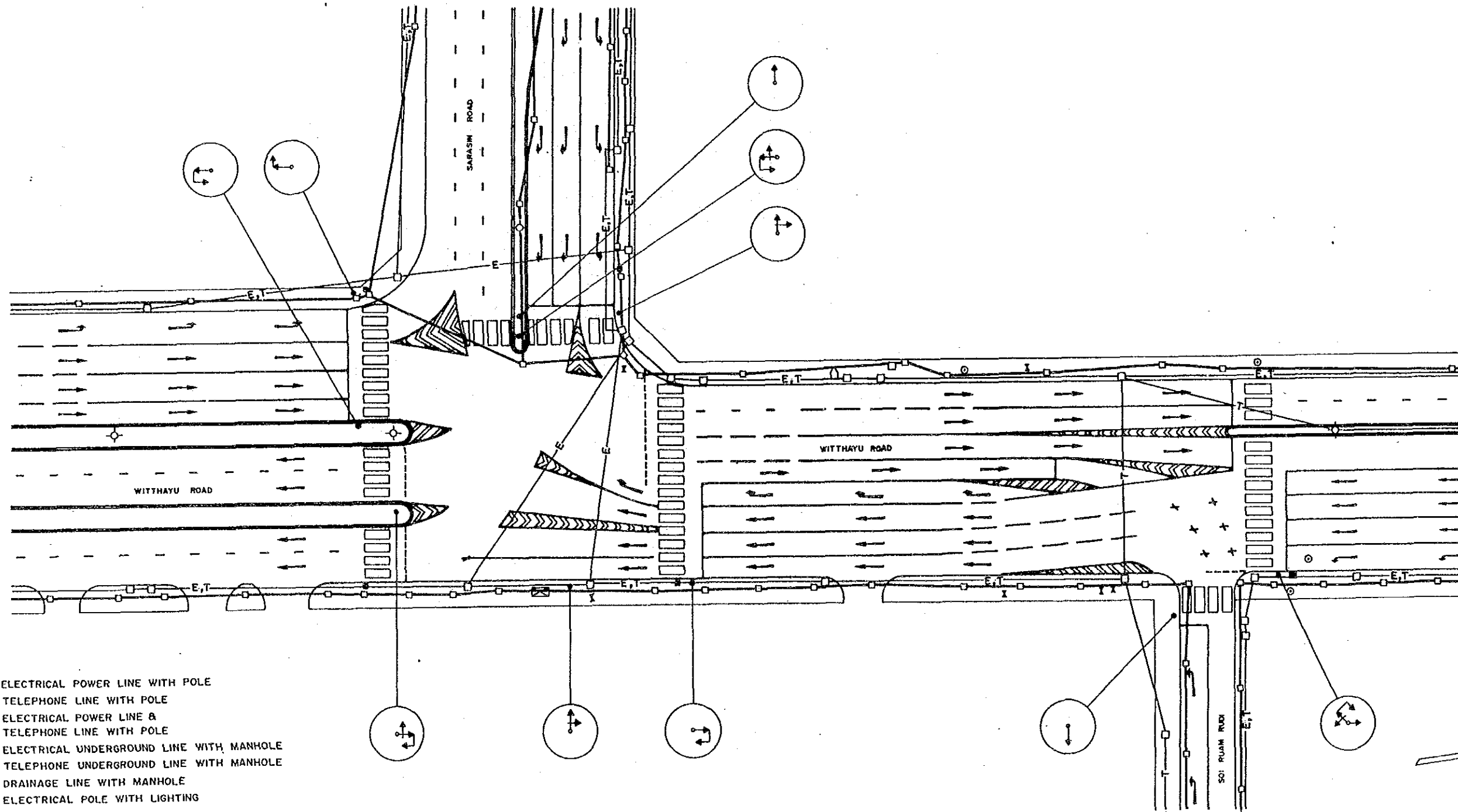


LEGEND

- E—□ ELECTRICAL POWER LINE WITH POLE
- T—□ TELEPHONE LINE WITH POLE
- E,T—□ ELECTRICAL POWER LINE & TELEPHONE LINE WITH POLE
- ELECTRICAL UNDERGROUND LINE WITH MANHOLE
- TELEPHONE UNDERGROUND LINE WITH MANHOLE
- △---△ DRAINAGE LINE WITH MANHOLE
- ⊕ ELECTRICAL POLE WITH LIGHTING
- ⊙ LIGHTING POLE
- ⋈ WATER SUPPLY VALVE
- TRAFFIC SIGNAL POLE
- ⊠ TRAFFIC SIGNAL CONTROLLER
- ⊞ HAND HOLE
- TELEPHONE CAB
- ⏏ PUBLIC TELEPHONE



BANGKOK AREA TRAFFIC CONTROL SYSTEM PROJECT : STAGE I			
EXISTING UTILITY LINES AT INTERSECTION			
SARASIN-SOI LANG SUAN			
INTERSECTION NO	197	Survey In	MAY 1990
JICA	BMA	Scale	1 / 500
Japan International	Bangkok Metropolitan	Drawing No	6197
Cooperation Agency	Administration	Date	SEPTEMBER/90
		Total	112 / 143

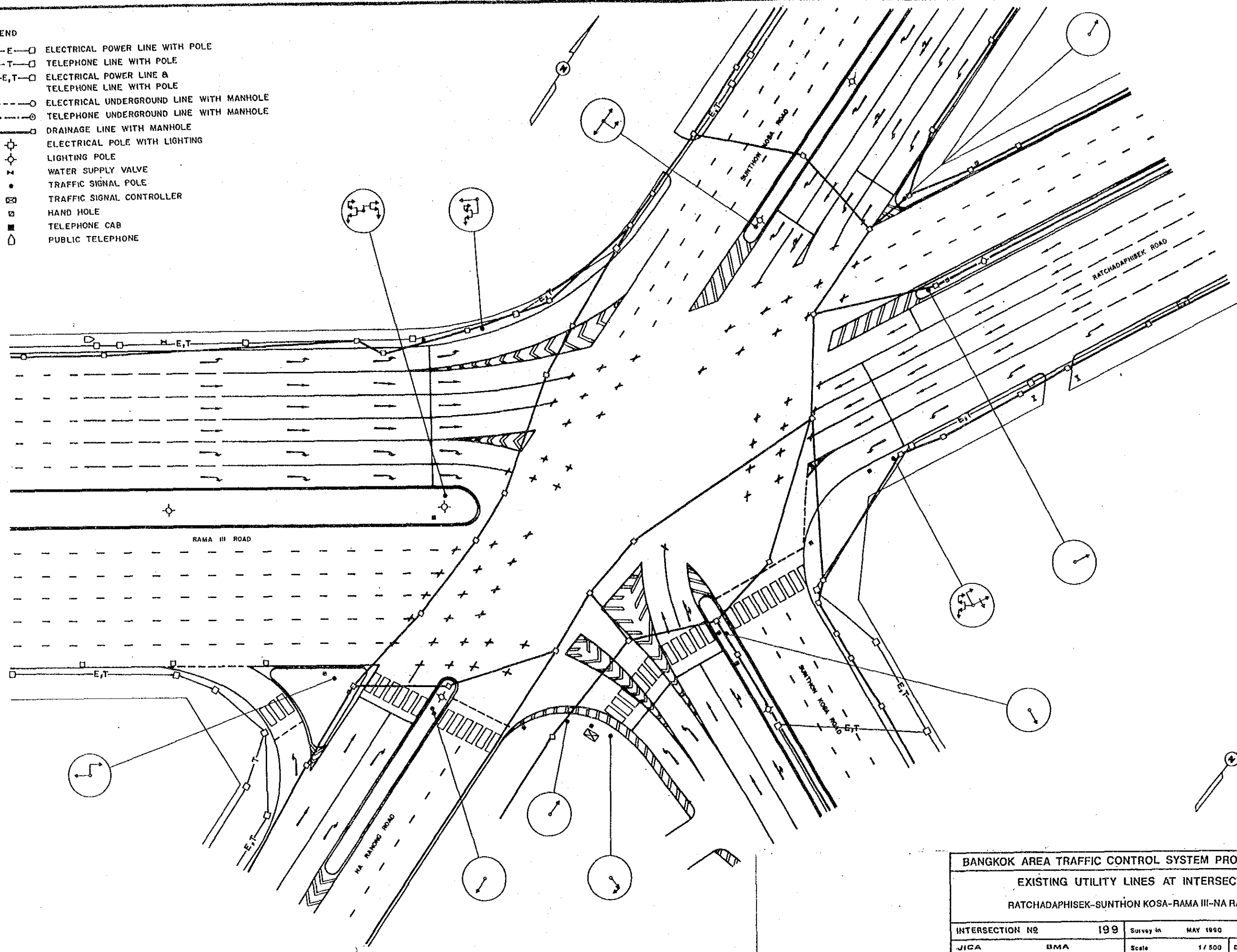


- LEGEND**
- E—□ ELECTRICAL POWER LINE WITH POLE
 - T—□ TELEPHONE LINE WITH POLE
 - E,T—□ ELECTRICAL POWER LINE & TELEPHONE LINE WITH POLE
 - ELECTRICAL UNDERGROUND LINE WITH MANHOLE
 - TELEPHONE UNDERGROUND LINE WITH MANHOLE
 - DRAINAGE LINE WITH MANHOLE
 - ⊕ ELECTRICAL POLE WITH LIGHTING
 - ⊕ LIGHTING POLE
 - × WATER SUPPLY VALVE
 - TRAFFIC SIGNAL POLE
 - ⊠ TRAFFIC SIGNAL CONTROLLER
 - HAND HOLE
 - TELEPHONE CAB
 - ⌒ PUBLIC TELEPHONE

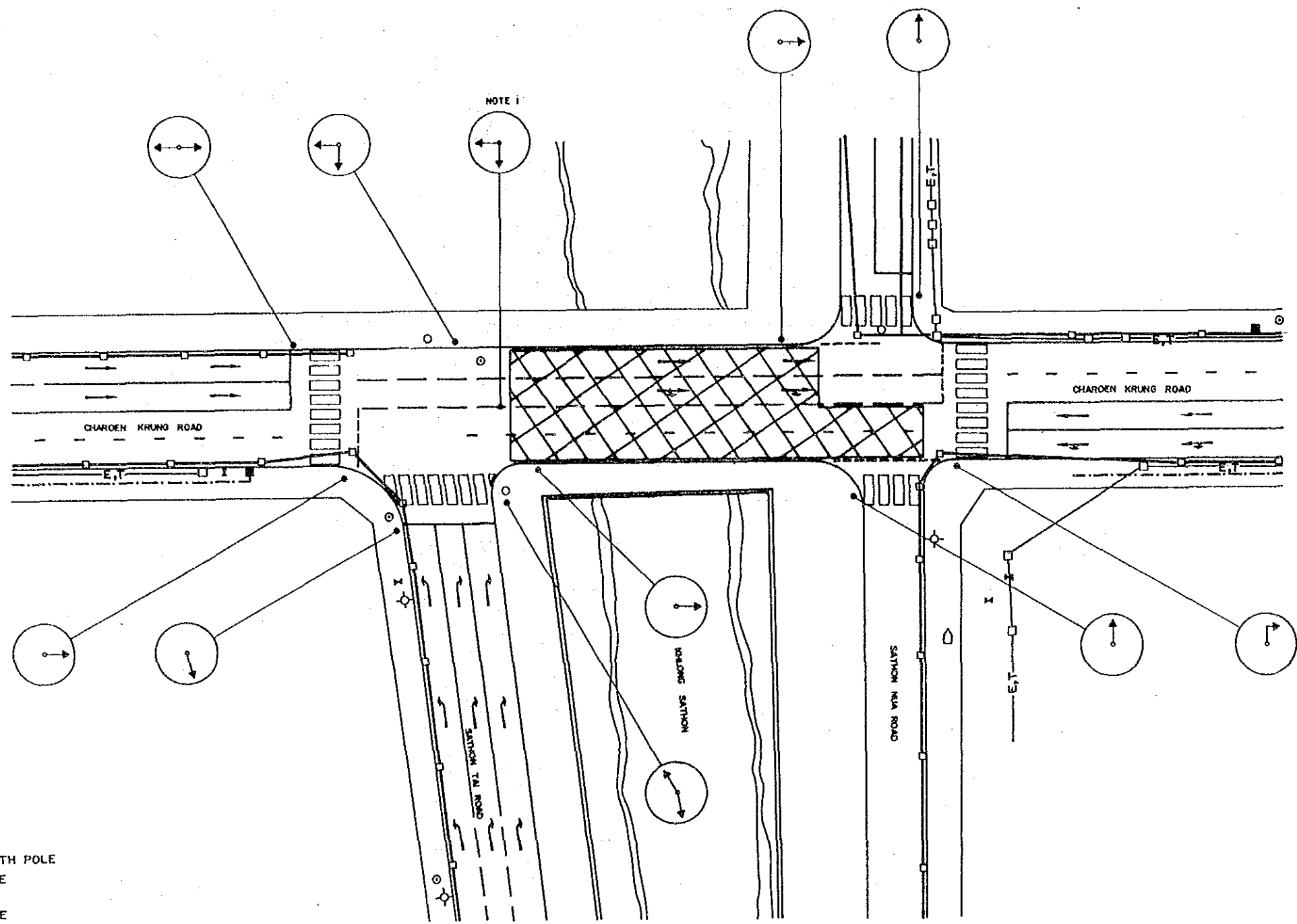
BANGKOK AREA TRAFFIC CONTROL SYSTEM PROJECT : STAGE I			
EXISTING UTILITY LINES AT INTERSECTION			
SARASIN-WITTHAYU-SOI RUAM RUDI			
INTERSECTION NO	198	Survey In	MAY 1990
JICA	BMA	Scale	1 / 500
Japan International	Bangkok Metropolitan	Drawing NO	6198
Cooperation Agency	Administration	Date	SEPTEMBER 90
		Total	113 / 143

LEGEND

- E—□ ELECTRICAL POWER LINE WITH POLE
- T—□ TELEPHONE LINE WITH POLE
- E,T—□ ELECTRICAL POWER LINE & TELEPHONE LINE WITH POLE
- ELECTRICAL UNDERGROUND LINE WITH MANHOLE
- TELEPHONE UNDERGROUND LINE WITH MANHOLE
- DRAINAGE LINE WITH MANHOLE
- ⊕ ELECTRICAL POLE WITH LIGHTING
- ⊕ LIGHTING POLE
- ⊕ WATER SUPPLY VALVE
- TRAFFIC SIGNAL POLE
- ⊠ TRAFFIC SIGNAL CONTROLLER
- ⊠ HAND HOLE
- ⊠ TELEPHONE CAB
- ⊠ PUBLIC TELEPHONE



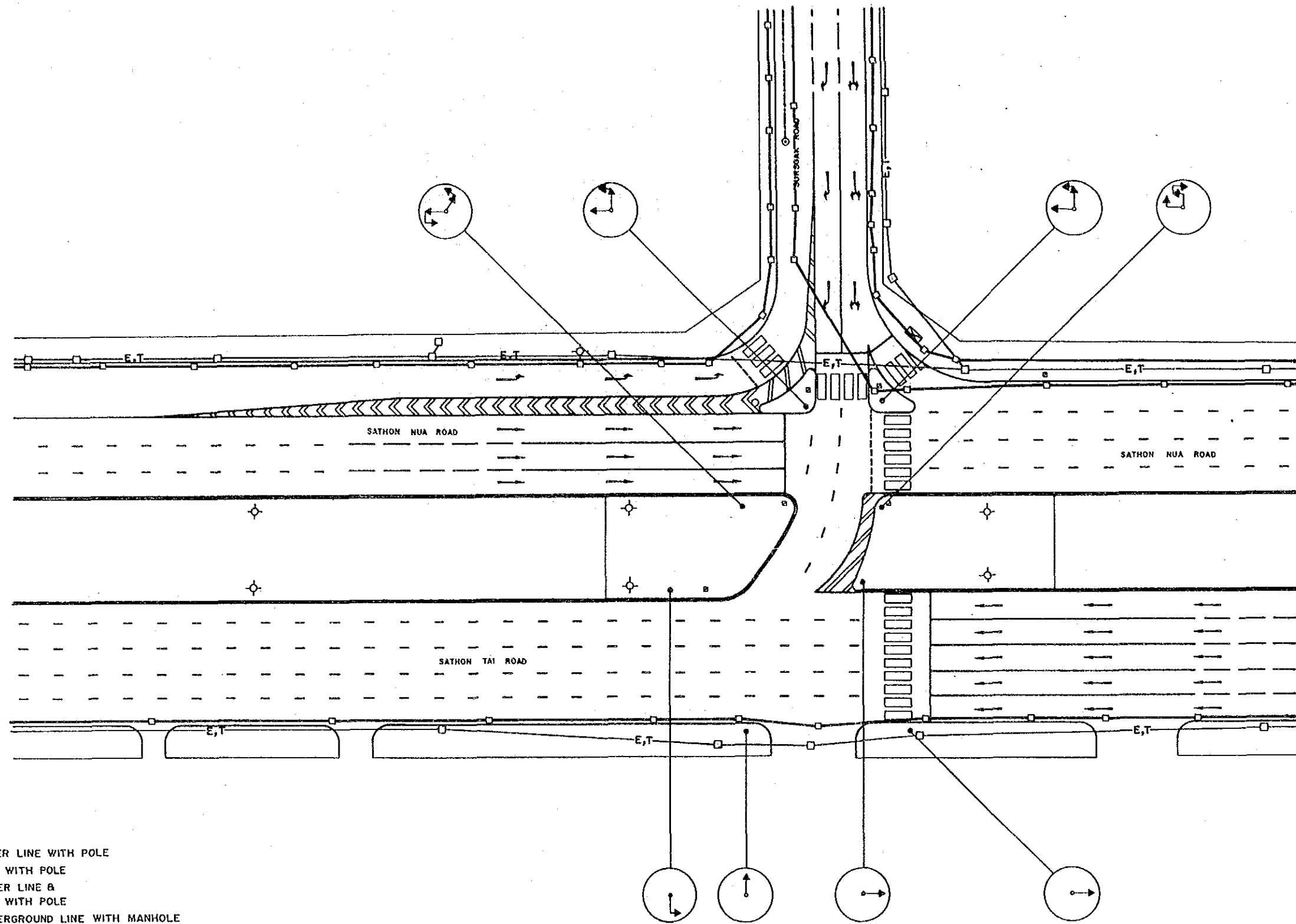
BANGKOK AREA TRAFFIC CONTROL SYSTEM PROJECT : STAGE I			
EXISTING UTILITY LINES AT INTERSECTION			
RATCHADAPHISEK-SUNTHON KOSA-RAMA III-NA RANONG			
INTERSECTION NO	199	Survey in	MAY 1990
JICA Japan International Cooperation Agency	BMA Bangkok Metropolitan Administration	Scale	1 / 500
		Date	SEPTEMBER 1990
		Drawing No	6199
		Total	114 / 143



LEGEND

- E—□ ELECTRICAL POWER LINE WITH POLE
- T—□ TELEPHONE LINE WITH POLE
- E,T—□ ELECTRICAL POWER LINE & TELEPHONE LINE WITH POLE
- ELECTRICAL UNDERGROUND LINE WITH MANHOLE
- TELEPHONE UNDERGROUND LINE WITH MANHOLE
- DRAINAGE LINE WITH MANHOLE
- ⊕ ELECTRICAL POLE WITH LIGHTING
- ⊕ LIGHTING POLE
- ⋈ WATER SUPPLY VALVE
- TRAFFIC SIGNAL POLE
- ⊗ TRAFFIC SIGNAL CONTROLLER
- HAND HOLE
- TELEPHONE CAB
- ⊕ PUBLIC TELEPHONE

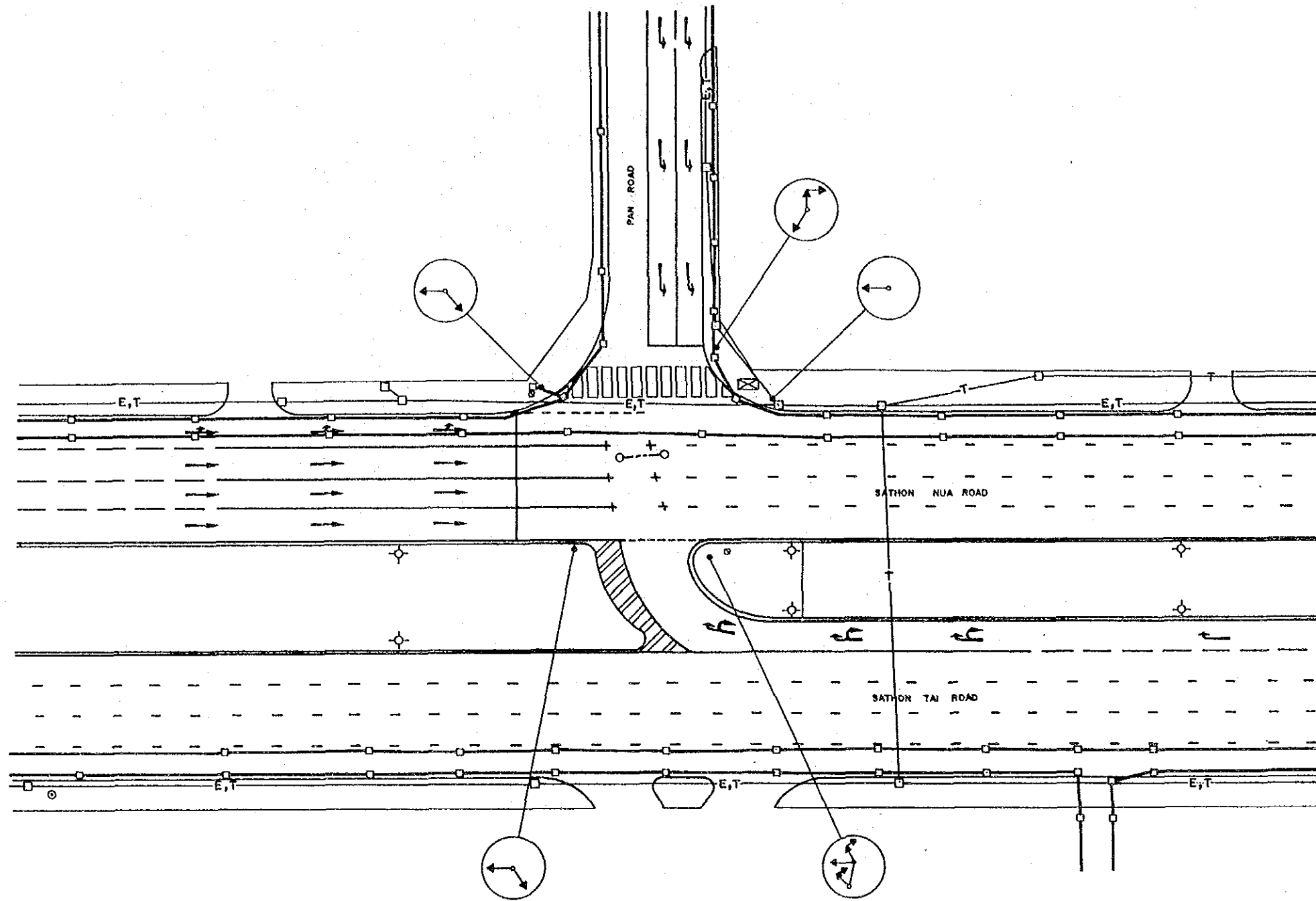
BANGKOK AREA TRAFFIC CONTROL SYSTEM PROJECT : STAGE I			
EXISTING UTILITY LINES AT INTERSECTION			
SATHON-CHAROEN KRUNG			
INTERSECTION No	214	Survey In	MAY 1990
JICA Japan International Cooperation Agency	BMA Bangkok Metropolitan Administration	Scale	1 / 500
		Date	(SEPTEMBER/90
		Drawing No	6214
		Total	115 / 143



LEGEND

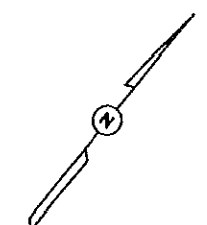
- E—□ ELECTRICAL POWER LINE WITH POLE
- T—□ TELEPHONE LINE WITH POLE
- E,T—□ ELECTRICAL POWER LINE & TELEPHONE LINE WITH POLE
- ELECTRICAL UNDERGROUND LINE WITH MANHOLE
- TELEPHONE UNDERGROUND LINE WITH MANHOLE
- DRAINAGE LINE WITH MANHOLE
- ⊕ ELECTRICAL POLE WITH LIGHTING
- ⊙ LIGHTING POLE
- ⋈ WATER SUPPLY VALVE
- TRAFFIC SIGNAL POLE
- ⊠ TRAFFIC SIGNAL CONTROLLER
- ⊞ HAND HOLE
- TELEPHONE CAB
- ⏏ PUBLIC TELEPHONE

BANGKOK AREA TRAFFIC CONTROL SYSTEM PROJECT : STAGE I			
EXISTING UTILITY LINES AT INTERSECTION			
SATHON NUA-SURASAK			
INTERSECTION NO	215	Survey In	MAY 1990
JICA Japan International Cooperation Agency	BMA Bangkok Metropolitan Administration	Scale	1 / 500
		Date	(SEPTEMBER 90)
		Drawing No	6215
		Total	116 / 143

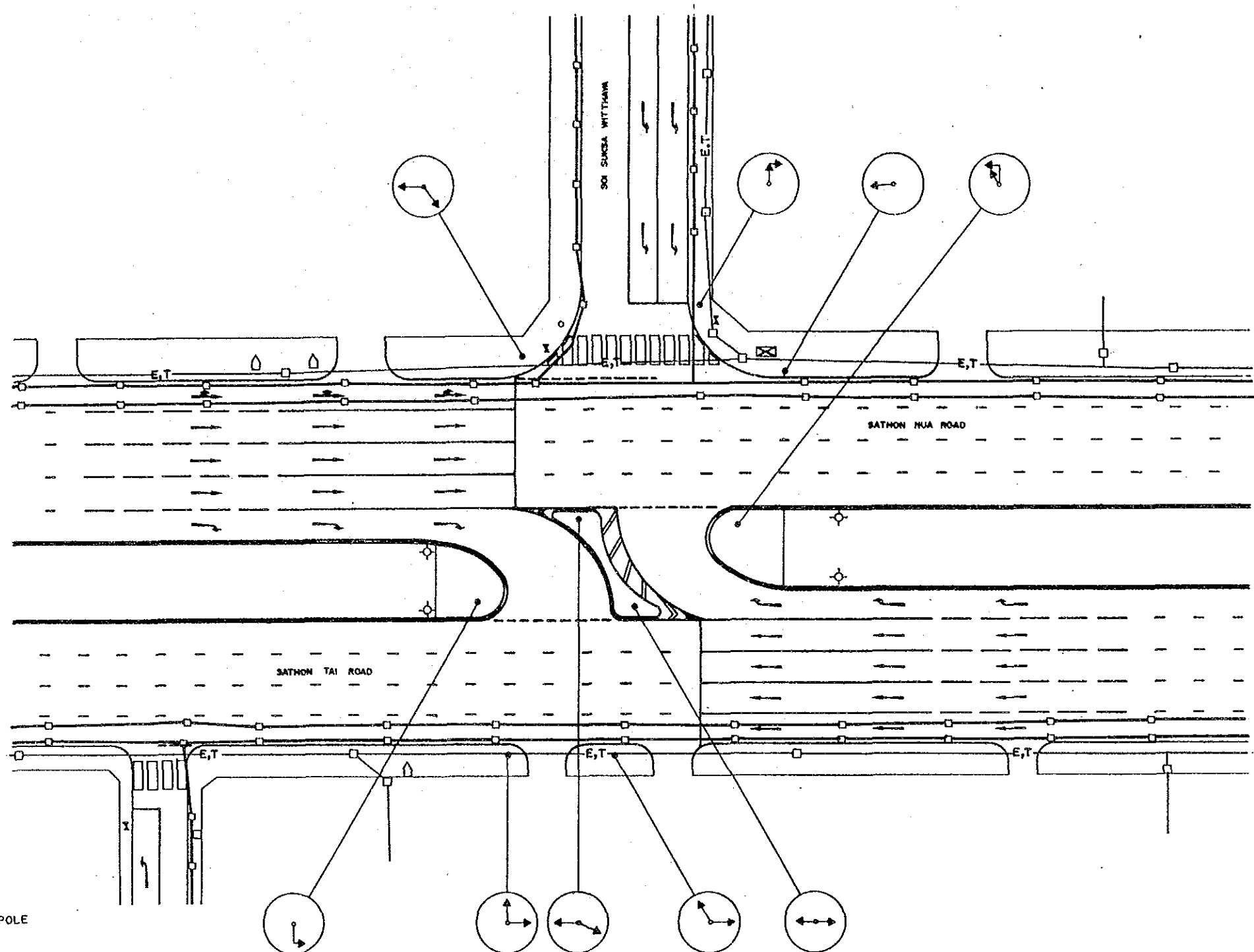


LEGEND

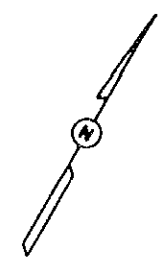
- E—□ ELECTRICAL POWER LINE WITH POLE
- T—□ TELEPHONE LINE WITH POLE
- E,T—□ ELECTRICAL POWER LINE & TELEPHONE LINE WITH POLE
- ELECTRICAL UNDERGROUND LINE WITH MANHOLE
- ...○ TELEPHONE UNDERGROUND LINE WITH MANHOLE
- DRAINAGE LINE WITH MANHOLE
- ⊕ ELECTRICAL POLE WITH LIGHTING
- ⊙ LIGHTING POLE
- ⊕ WATER SUPPLY VALVE
- TRAFFIC SIGNAL POLE
- ⊠ TRAFFIC SIGNAL CONTROLLER
- ⊞ HAND HOLE
- TELEPHONE CAB
- ⌒ PUBLIC TELEPHONE



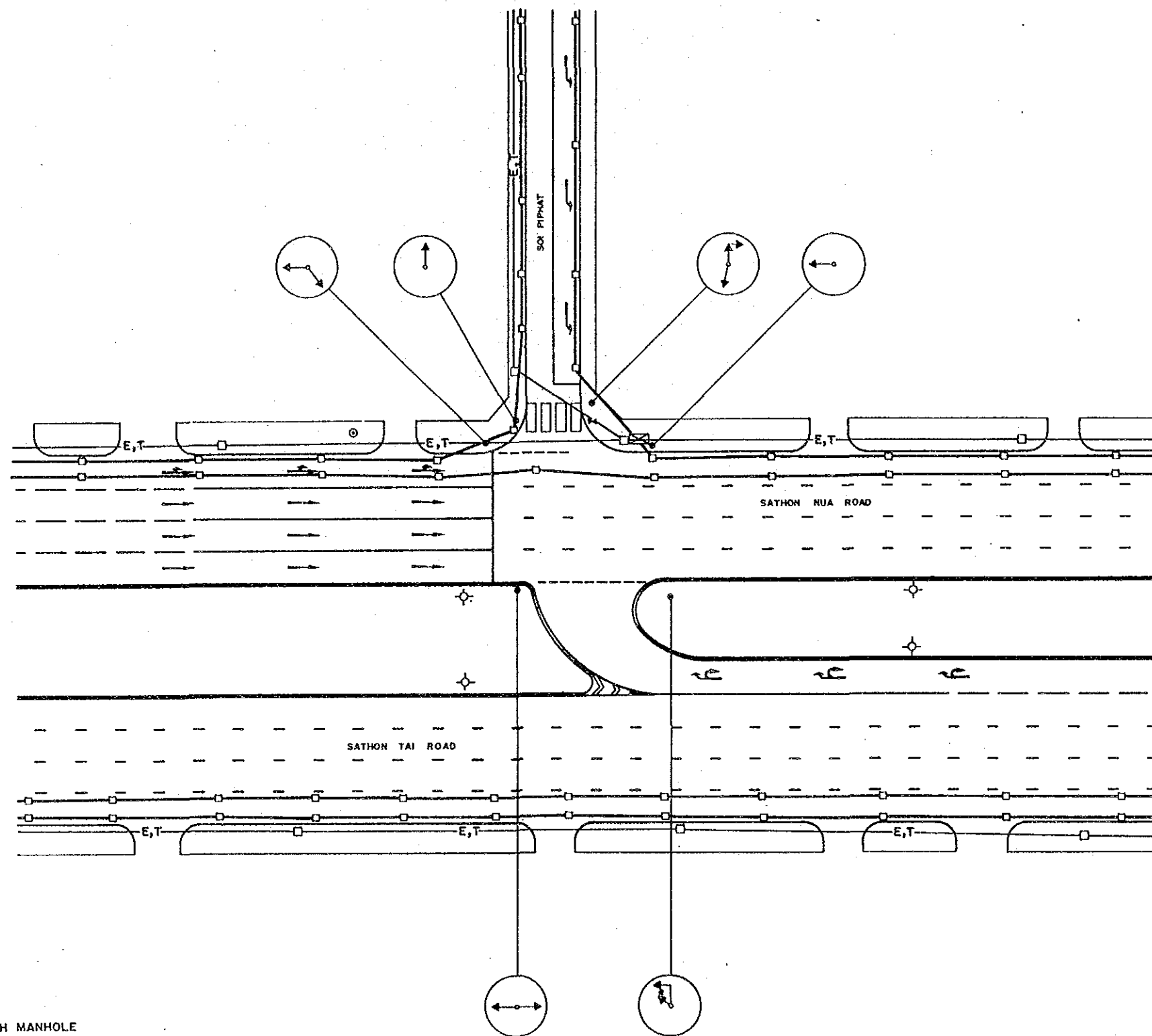
BANGKOK AREA TRAFFIC CONTROL SYSTEM PROJECT : STAGE I			
EXISTING UTILITY LINES AT INTERSECTION			
SATHON NUA-PAN			
INTERSECTION NO	217	Survey In	MAY 1990
JICA Japan International Cooperation Agency	BMA Bangkok Metropolitan Administration	Scale	1:500
		Date	SEPTEMBER 90
		Drawing No	6217
		Total	117 / 143



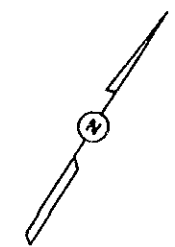
- LEGEND**
- E—□ ELECTRICAL POWER LINE WITH POLE
 - T—□ TELEPHONE LINE WITH POLE
 - E,T—□ ELECTRICAL POWER LINE & TELEPHONE LINE WITH POLE
 - ELECTRICAL UNDERGROUND LINE WITH MANHOLE
 - TELEPHONE UNDERGROUND LINE WITH MANHOLE
 - DRAINAGE LINE WITH MANHOLE
 - ⊕ ELECTRICAL POLE WITH LIGHTING
 - ⊕ LIGHTING POLE
 - ⊕ WATER SUPPLY VALVE
 - TRAFFIC SIGNAL POLE
 - ⊠ TRAFFIC SIGNAL CONTROLLER
 - ⊠ HAND HOLE
 - TELEPHONE CAB
 - ⌒ PUBLIC TELEPHONE



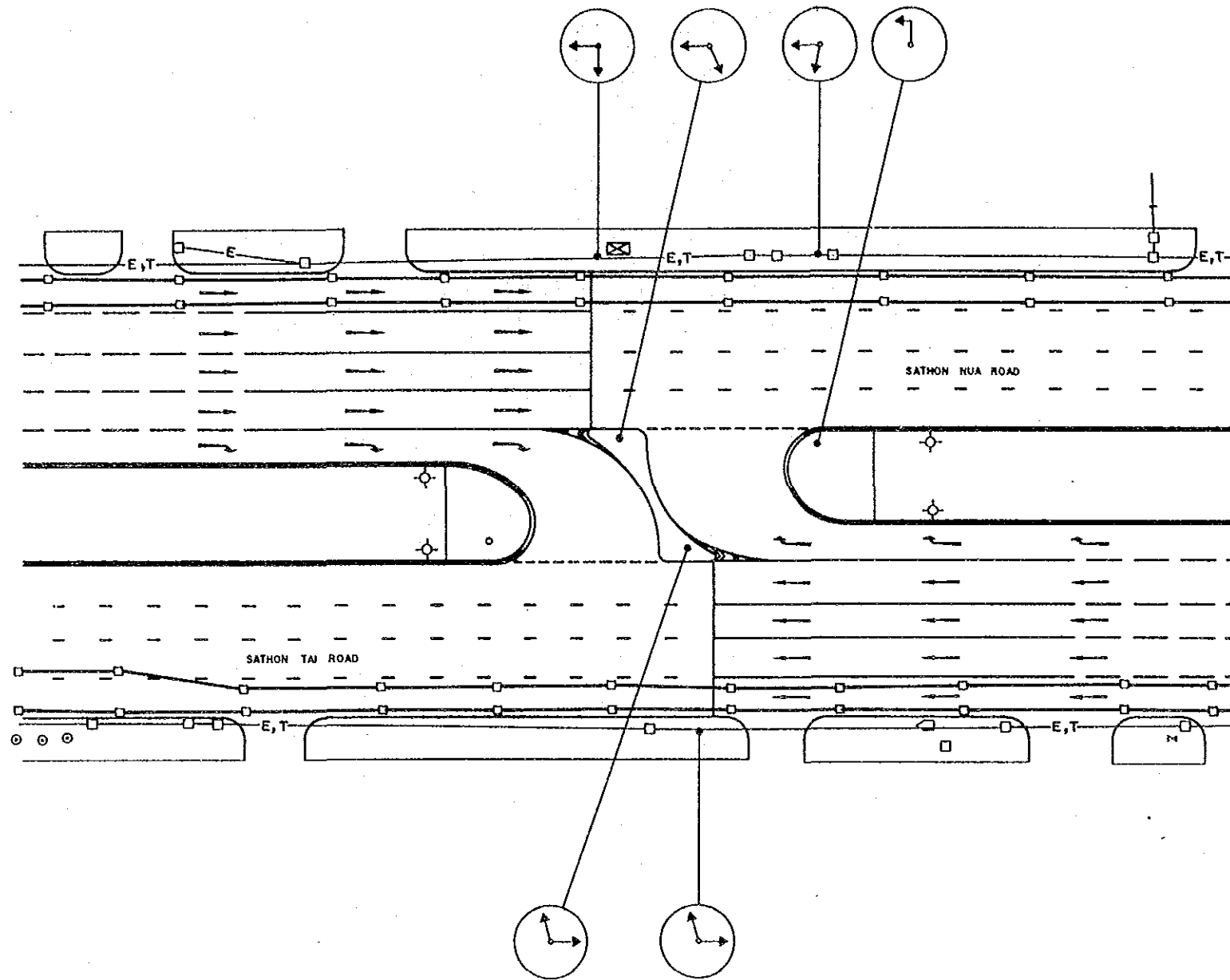
BANGKOK AREA TRAFFIC CONTROL SYSTEM PROJECT : STAGE I			
EXISTING UTILITY LINES AT INTERSECTION			
SATHON-SOI SUKSA WITTHAYA (BANG RAK HOSPITAL)			
INTERSECTION NO	219	Survey In	MAY 1990
JICA Japan International Cooperation Agency	BMA Bangkok Metropolitan Administration	Scale	1 / 500
		Date	SEPTEMBER 90
		Drawing NO	0219
		Total	118 / 143



- LEGEND
- E—□ ELECTRICAL POWER LINE WITH POLE
 - T—□ TELEPHONE LINE WITH POLE
 - E,T—□ ELECTRICAL POWER LINE & TELEPHONE LINE WITH POLE
 - ELECTRICAL UNDERGROUND LINE WITH MANHOLE
 - TELEPHONE UNDERGROUND LINE WITH MANHOLE
 - DRAINAGE LINE WITH MANHOLE
 - ⊕ ELECTRICAL POLE WITH LIGHTING
 - ⊙ LIGHTING POLE
 - × WATER SUPPLY VALVE
 - TRAFFIC SIGNAL POLE
 - ⊠ TRAFFIC SIGNAL CONTROLLER
 - ◻ HAND HOLE
 - TELEPHONE CAB
 - ⏏ PUBLIC TELEPHONE



BANGKOK AREA TRAFFIC CONTROL SYSTEM PROJECT : STAGE I			
EXISTING UTILITY LINES AT INTERSECTION			
SATHON NUA-PHIPHAT			
INTERSECTION NO	221	Survey in	MAY 1990
JICA Japan International Cooperation Agency	BMA Bangkok Metropolitan Administration	Scale	1/500
		Date	SEPTEMBER/90
		Drawing NO	6221
		Total	119 / 143



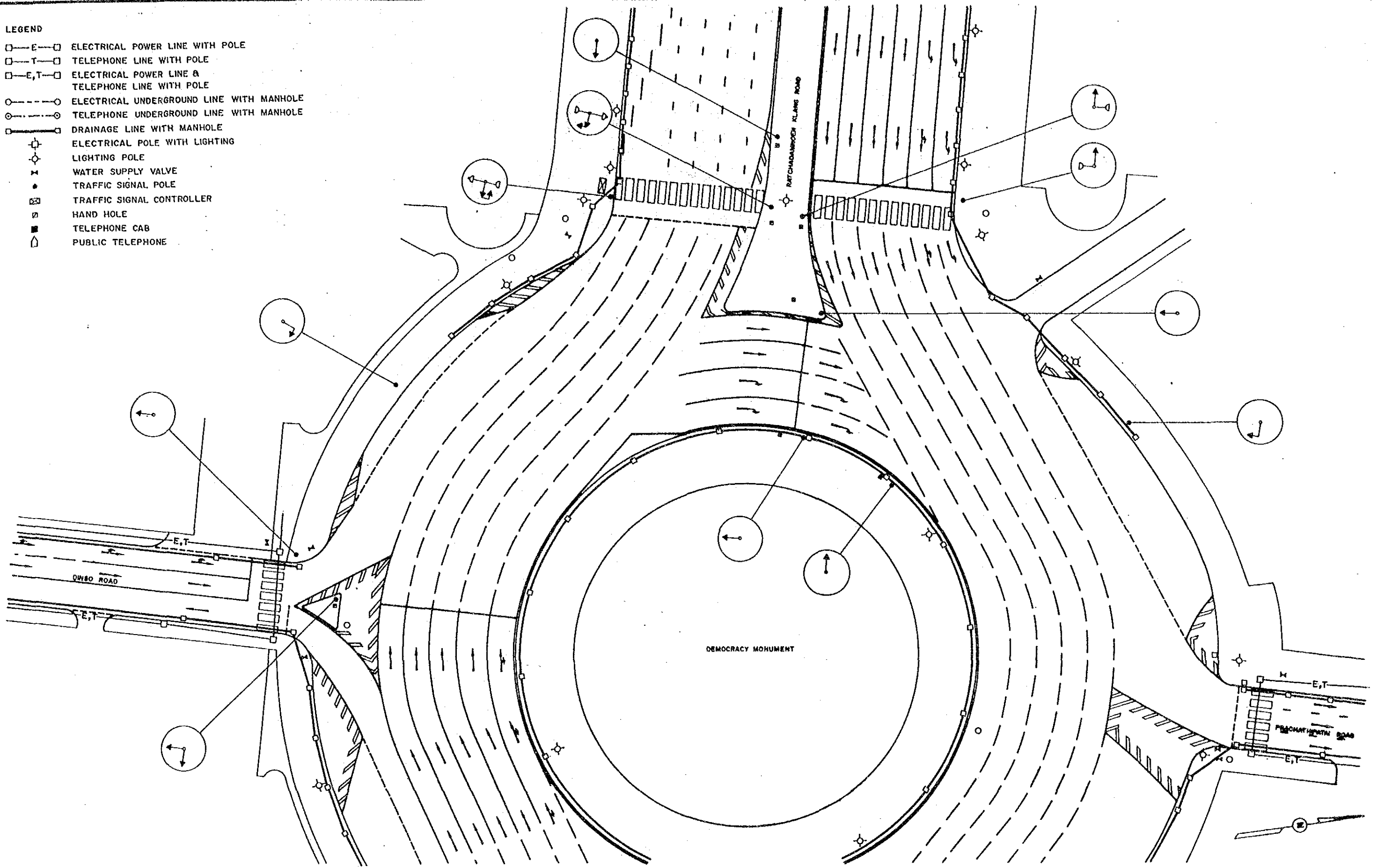
LEGEND

- E—□ ELECTRICAL POWER LINE WITH POLE
- T—□ TELEPHONE LINE WITH POLE
- E,T—□ ELECTRICAL POWER LINE & TELEPHONE LINE WITH POLE
- ELECTRICAL UNDERGROUND LINE WITH MANHOLE
- TELEPHONE UNDERGROUND LINE WITH MANHOLE
- — — — — DRAINAGE LINE WITH MANHOLE
- ⊕ ELECTRICAL POLE WITH LIGHTING
- ⊕ LIGHTING POLE
- × WATER SUPPLY VALVE
- TRAFFIC SIGNAL POLE
- ⊠ TRAFFIC SIGNAL CONTROLLER
- ⊞ HAND HOLE
- TELEPHONE CAB
- ⏏ PUBLIC TELEPHONE

BANGKOK AREA TRAFFIC CONTROL SYSTEM PROJECT : STAGE I			
EXISTING UTILITY LINES AT INTERSECTION			
SATHON (U-TURN NEAR SOI ATTHAKAN PRASIT)			
INTERSECTION NO	224	Survey In	MAY 1990
JICA Japan International Cooperation Agency	BMA Bangkok Metropolitan Administration	Scale	1 / 500
		Date	SEPTEMBER '90
		Drawing No	6224
		Total	121 / 143

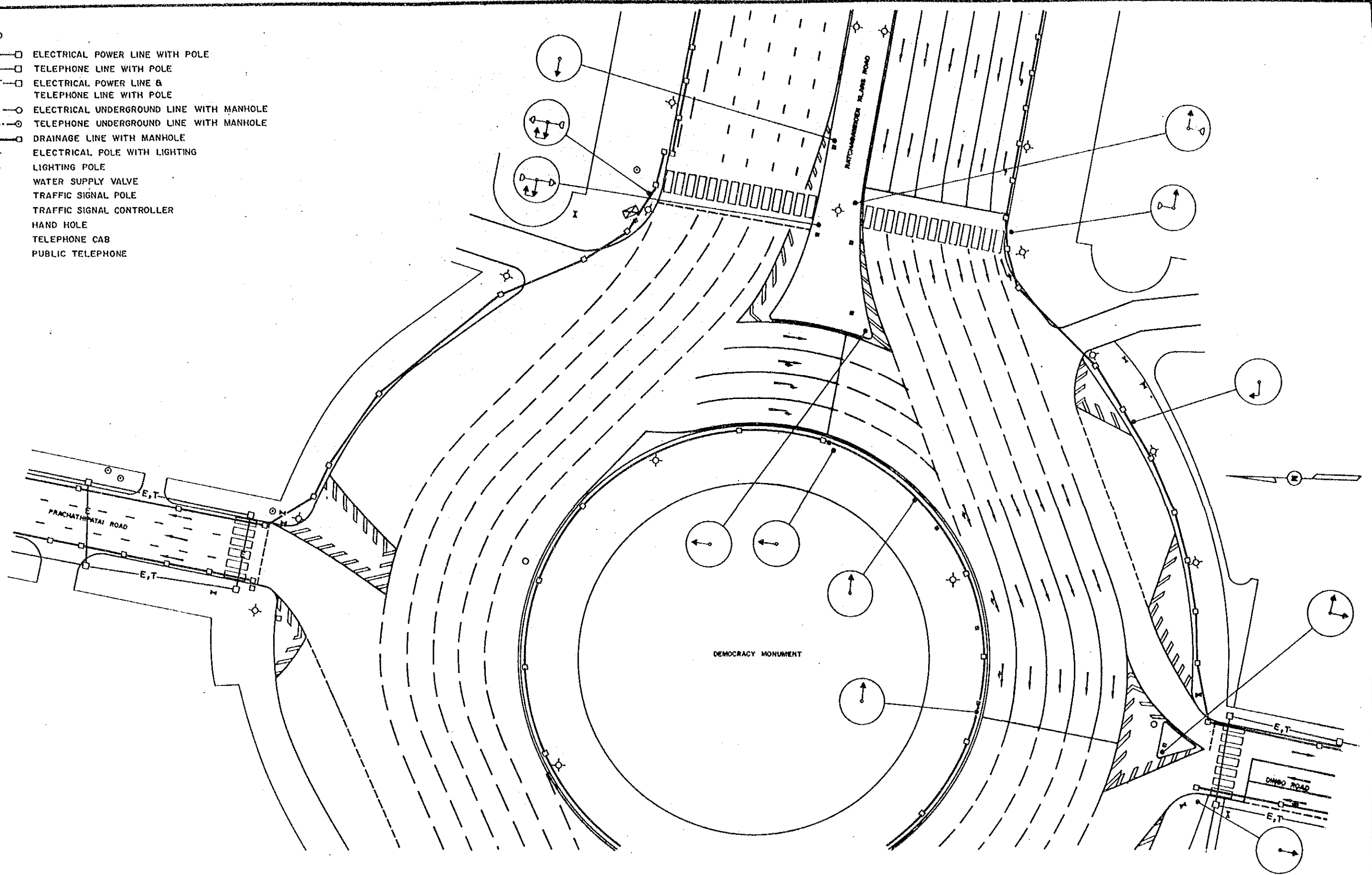
LEGEND

- E—□ ELECTRICAL POWER LINE WITH POLE
- T—□ TELEPHONE LINE WITH POLE
- E,T—□ ELECTRICAL POWER LINE & TELEPHONE LINE WITH POLE
- ELECTRICAL UNDERGROUND LINE WITH MANHOLE
- TELEPHONE UNDERGROUND LINE WITH MANHOLE
- DRAINAGE LINE WITH MANHOLE
- ⊕ ELECTRICAL POLE WITH LIGHTING
- ⊕ LIGHTING POLE
- ⊕ WATER SUPPLY VALVE
- TRAFFIC SIGNAL POLE
- ⊠ TRAFFIC SIGNAL CONTROLLER
- ⊠ HAND HOLE
- TELEPHONE CAB
- △ PUBLIC TELEPHONE

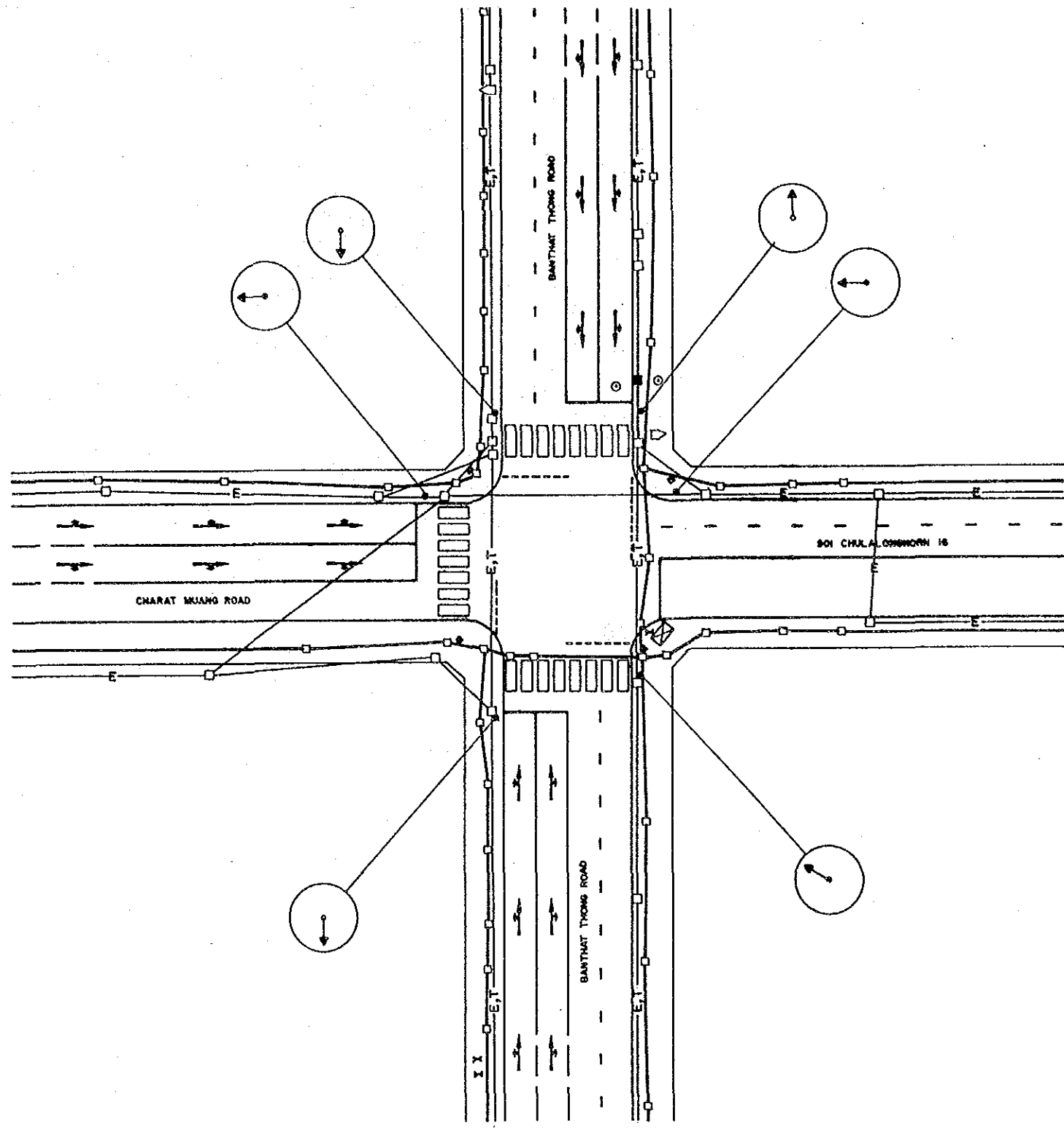


BANGKOK AREA TRAFFIC CONTROL SYSTEM PROJECT : STAGE I			
EXISTING UTILITY LINES AT INTERSECTION			
DEMOCRACY MONUMENT 1			
INTERSECTION NO	227	Survey in	MAY 1990
JICA Japan International Cooperation Agency	BMA Bangkok Metropolitan Administration	Scale	1 / 500
		Drawing NO	0227
		Date	SEPTEMBER/90
		Total	122 / 143

- LEGEND**
- E—□ ELECTRICAL POWER LINE WITH POLE
 - T—□ TELEPHONE LINE WITH POLE
 - E,T—□ ELECTRICAL POWER LINE & TELEPHONE LINE WITH POLE
 - ELECTRICAL UNDERGROUND LINE WITH MANHOLE
 - TELEPHONE UNDERGROUND LINE WITH MANHOLE
 - DRAINAGE LINE WITH MANHOLE
 - ⊕ ELECTRICAL POLE WITH LIGHTING
 - ◇ LIGHTING POLE
 - ⋈ WATER SUPPLY VALVE
 - TRAFFIC SIGNAL POLE
 - ⊠ TRAFFIC SIGNAL CONTROLLER
 - ⊞ HAND HOLE
 - TELEPHONE CAB
 - ⏏ PUBLIC TELEPHONE



BANGKOK AREA TRAFFIC CONTROL SYSTEM PROJECT: STAGE I			
EXISTING UTILITY LINES AT INTERSECTION			
DEMOCRACY MONUMENT 2			
INTERSECTION NO	228	Survey In	MAY 1990
JICA	BMA	Scale	1 / 500
Japan International	Bangkok Metropolitan	Drawing No	6228
Cooperation Agency	Administration	Date	SEPTEMBER/90
		Total	123 / 143

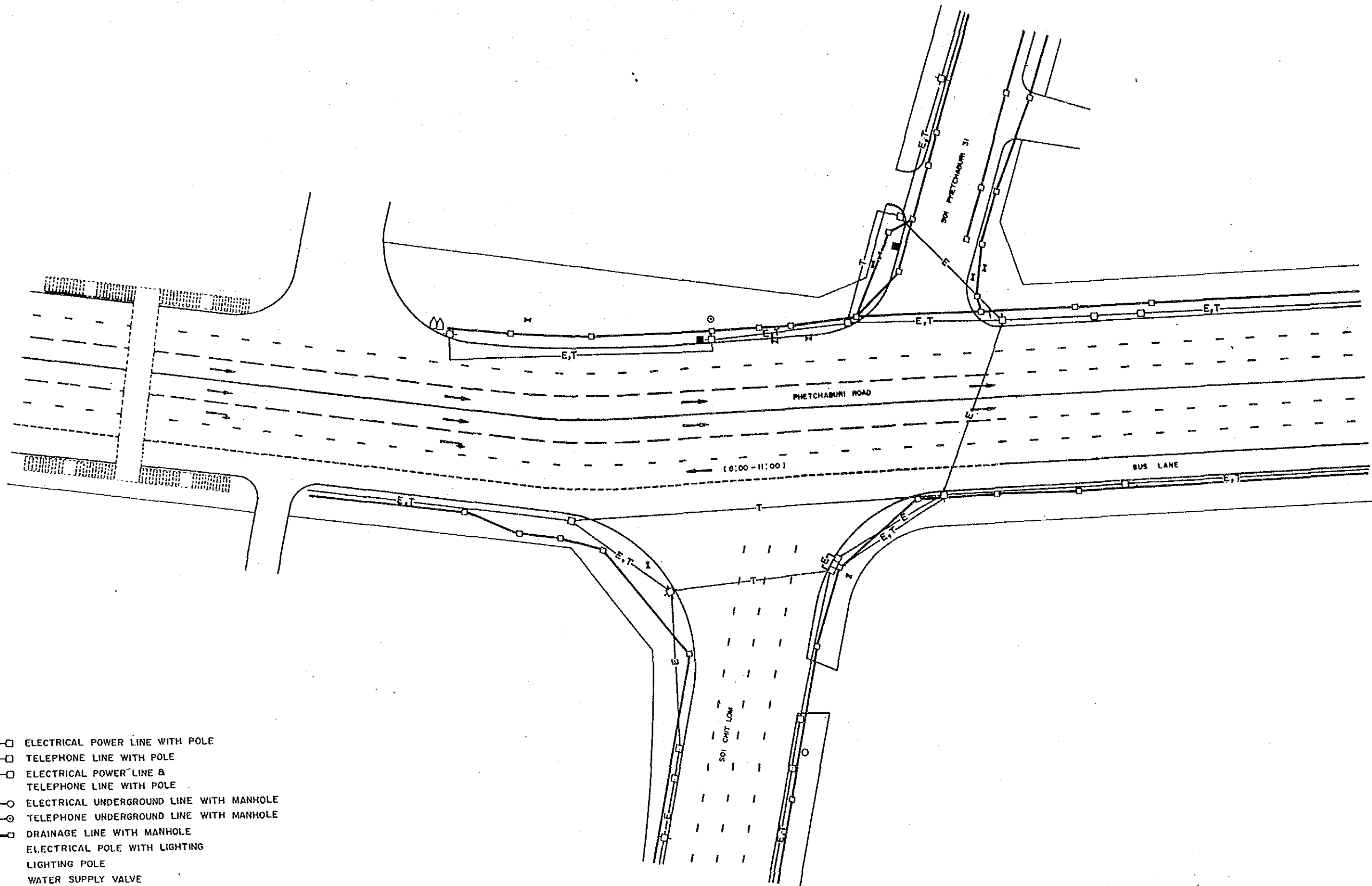


LEGEND

- E—□ ELECTRICAL POWER LINE WITH POLE
- T—□ TELEPHONE LINE WITH POLE
- E,T—□ ELECTRICAL POWER LINE & TELEPHONE LINE WITH POLE
- ELECTRICAL UNDERGROUND LINE WITH MANHOLE
- TELEPHONE UNDERGROUND LINE WITH MANHOLE
- DRAINAGE LINE WITH MANHOLE
- ⊕ ELECTRICAL POLE WITH LIGHTING
- ⊕ LIGHTING POLE
- ⊕ WATER SUPPLY VALVE
- ⊕ TRAFFIC SIGNAL POLE
- ⊕ TRAFFIC SIGNAL CONTROLLER
- ⊕ HAND HOLE
- ⊕ TELEPHONE CAB
- ⊕ PUBLIC TELEPHONE



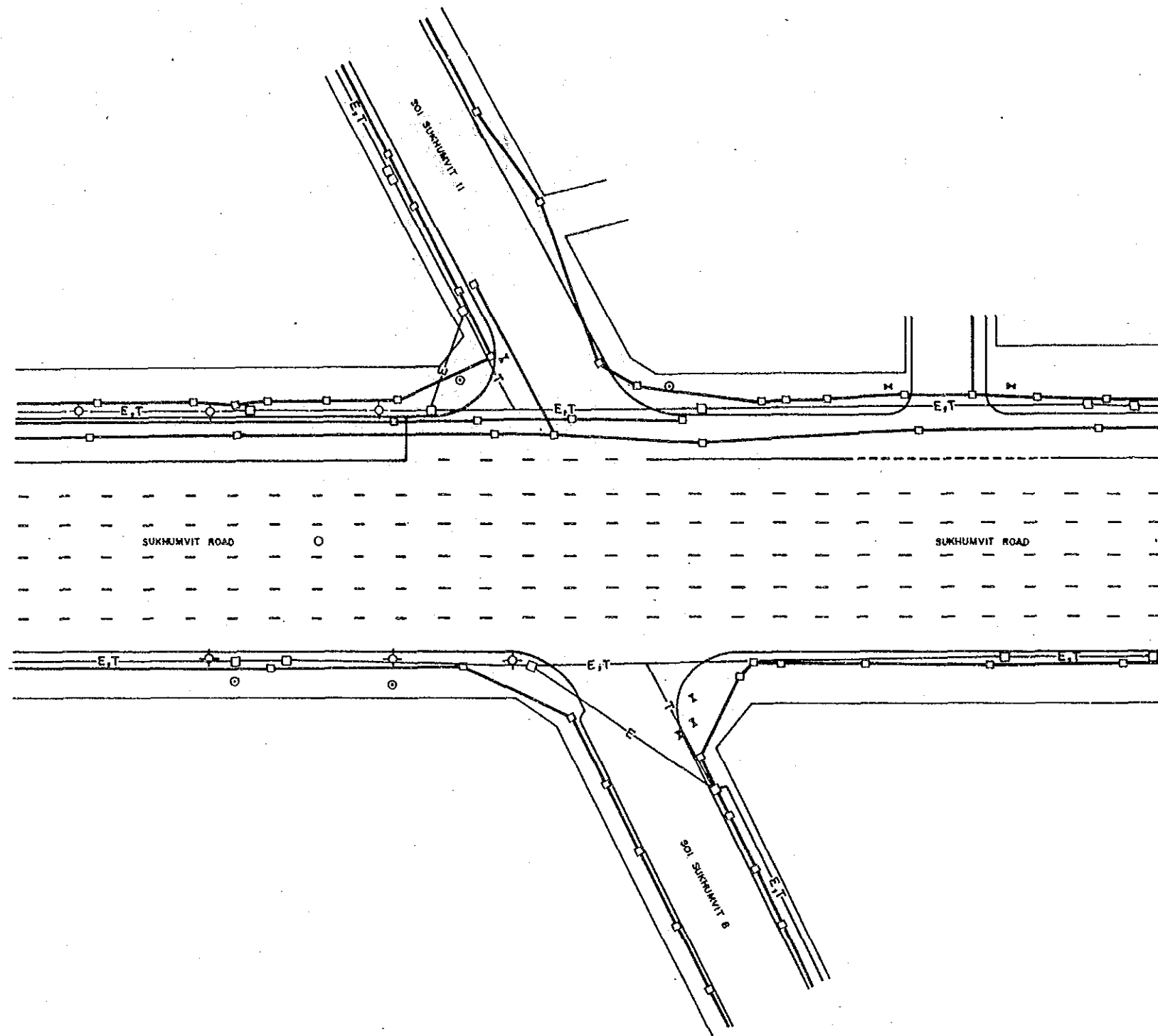
BANGKOK AREA TRAFFIC CONTROL SYSTEM PROJECT : STAGE I			
EXISTING UTILITY LINES AT INTERSECTION			
BANTHAT THONG-SOI CHULALONGKORN 16			
INTERSECTION NO	232	Survey In	MAY 1990
JICA Japan International Cooperation Agency	BMA Bangkok Metropolitan Administration	Scale	1 / 500
		Date	SEPTEMBER 90
		Drawing No	6232
		Total	124 / 143



LEGEND

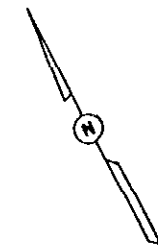
- E—□ ELECTRICAL POWER LINE WITH POLE
- T—□ TELEPHONE LINE WITH POLE
- E,T—□ ELECTRICAL POWER LINE & TELEPHONE LINE WITH POLE
- ELECTRICAL UNDERGROUND LINE WITH MANHOLE
- TELEPHONE UNDERGROUND LINE WITH MANHOLE
- DRAINAGE LINE WITH MANHOLE
- ⊕ ELECTRICAL POLE WITH LIGHTING
- ◇ LIGHTING POLE
- × WATER SUPPLY VALVE
- TRAFFIC SIGNAL POLE
- ⊠ TRAFFIC SIGNAL CONTROLLER
- HAND HOLE
- TELEPHONE CAB
- ⌒ PUBLIC TELEPHONE

BANGKOK AREA TRAFFIC CONTROL SYSTEM PROJECT : STAGE I			
EXISTING UTILITY LINES AT INTERSECTION			
PHETCHABURI-SOI CHIT LOM			
INTERSECTION NO	236	Survey In	MAY 1990
JICA Japan International Cooperation Agency	BMA Bangkok Metropolitan Administration	Scale	1 / 500
		Drawing No	6236
		Date	SEPTEMBER 90
		Total	125 / 143

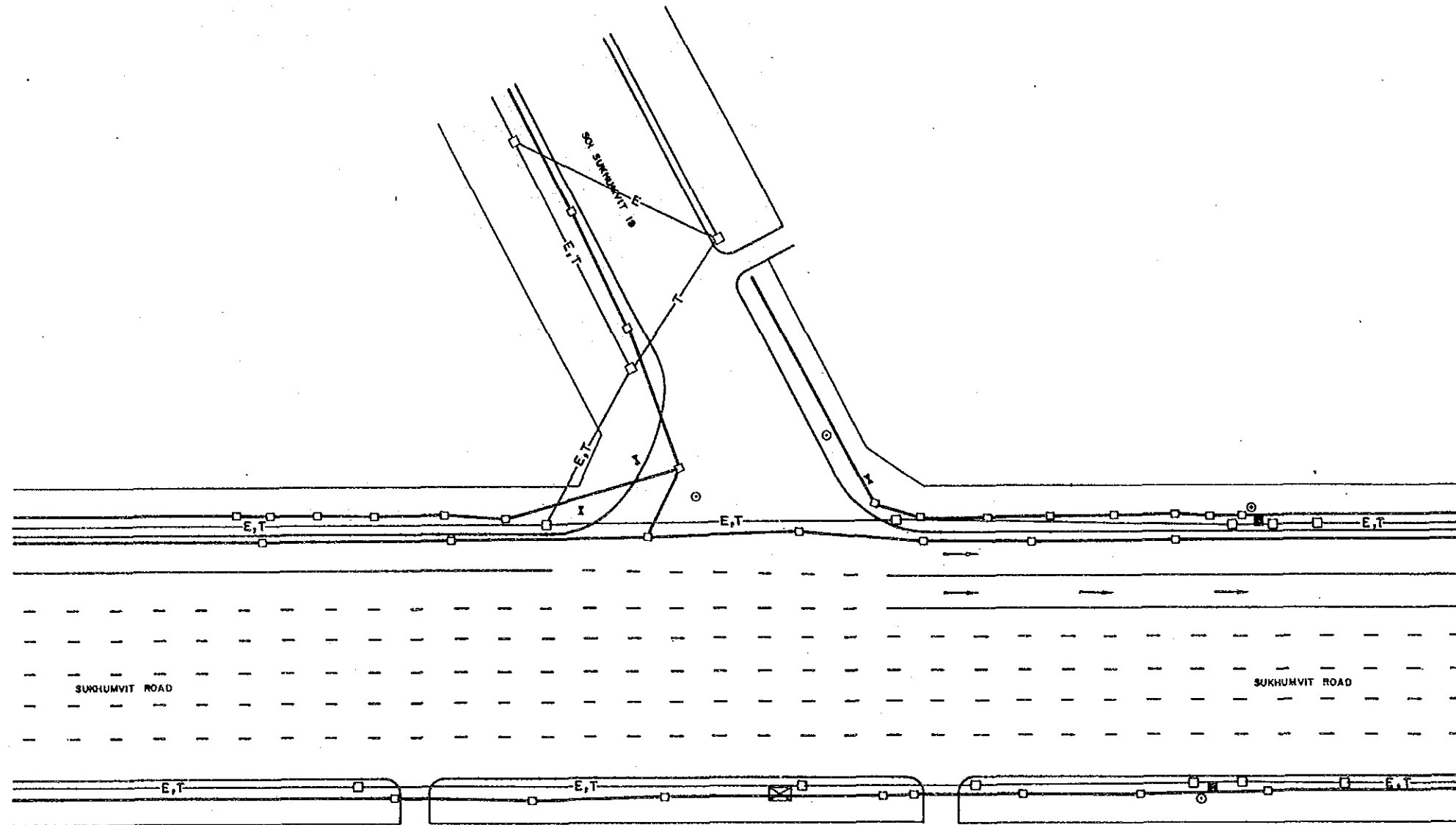


LEGEND

- E—□ ELECTRICAL POWER LINE WITH POLE
- T—□ TELEPHONE LINE WITH POLE
- E,T—□ ELECTRICAL POWER LINE & TELEPHONE LINE WITH POLE
- ELECTRICAL UNDERGROUND LINE WITH MANHOLE
- TELEPHONE UNDERGROUND LINE WITH MANHOLE
- DRAINAGE LINE WITH MANHOLE
- ⊕ ELECTRICAL POLE WITH LIGHTING
- ◇ LIGHTING POLE
- × WATER SUPPLY VALVE
- TRAFFIC SIGNAL POLE
- ⊠ TRAFFIC SIGNAL CONTROLLER
- ⊞ HAND HOLE
- TELEPHONE CAB
- ⏏ PUBLIC TELEPHONE

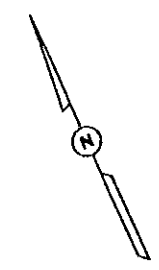


BANGKOK AREA TRAFFIC CONTROL SYSTEM PROJECT : STAGE I			
EXISTING UTILITY LINES AT INTERSECTION			
SUKHUMVIT-SOI SUKHUMVIT 11			
INTERSECTION NO	237	Survey In	MAY 1990
JICA Japan International Cooperation Agency	BMA Bangkok Metropolitan Administration	Scale	1 / 500
		Drawing NO	6237
		Date	SEPTEMBER 90
		Total	126 / 146

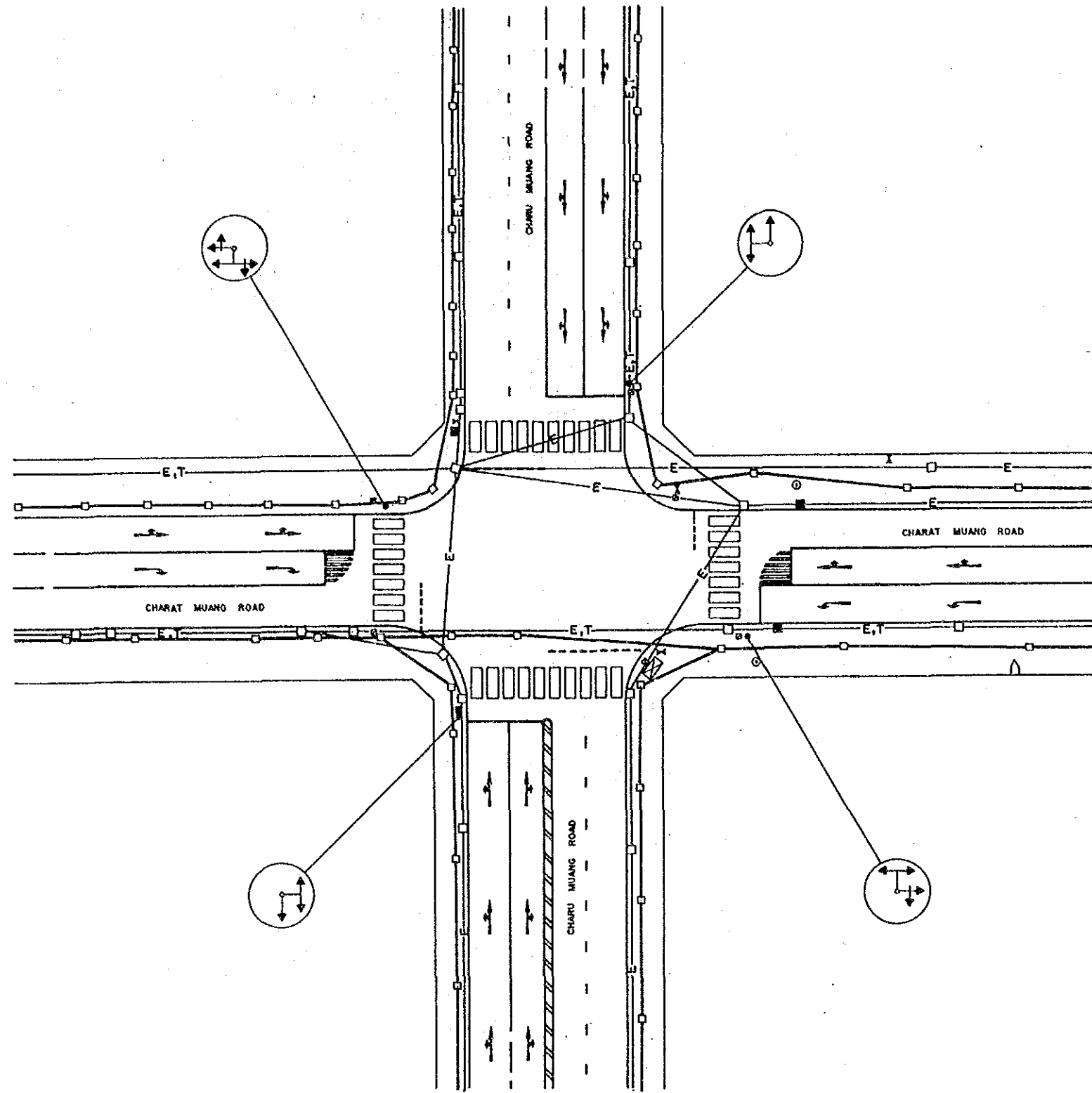


LEGEND

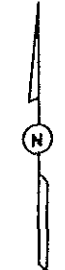
- E—□ ELECTRICAL POWER LINE WITH POLE
- T—□ TELEPHONE LINE WITH POLE
- E,T—□ ELECTRICAL POWER LINE & TELEPHONE LINE WITH POLE
- ELECTRICAL UNDERGROUND LINE WITH MANHOLE
- TELEPHONE UNDERGROUND LINE WITH MANHOLE
- DRAINAGE LINE WITH MANHOLE
- ⊕ ELECTRICAL POLE WITH LIGHTING
- ◇ LIGHTING POLE
- ⋈ WATER SUPPLY VALVE
- TRAFFIC SIGNAL POLE
- ⊠ TRAFFIC SIGNAL CONTROLLER
- ⊞ HAND HOLE
- TELEPHONE CAB
- ⊕ PUBLIC TELEPHONE



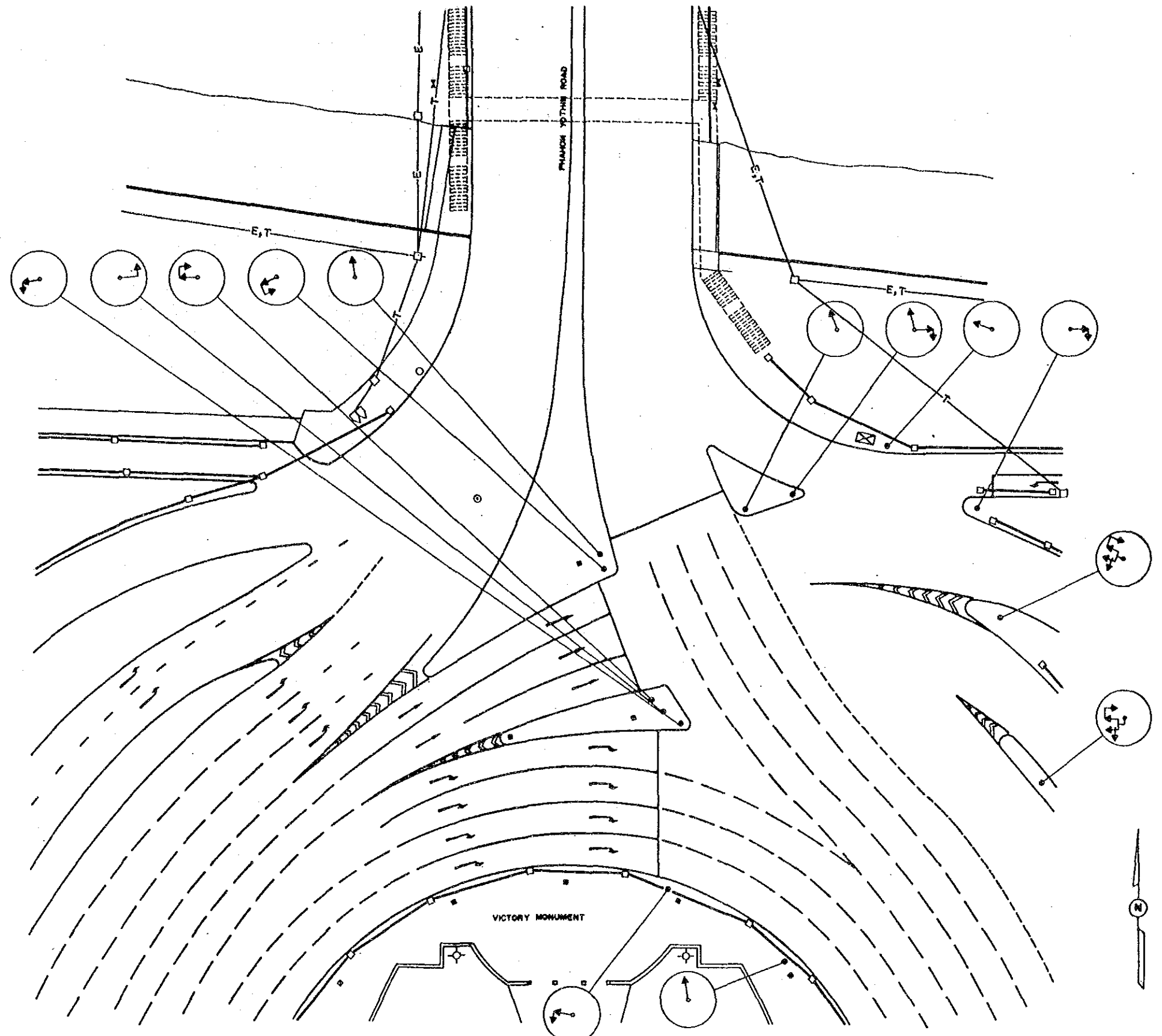
BANGKOK AREA TRAFFIC CONTROL SYSTEM PROJECT : STAGE I			
EXISTING UTILITY LINES AT INTERSECTION			
SUKHUMVIT-SOI SUKHUMVIT 19			
INTERSECTION NO	238	Survey In	MAY 1990
-JICA Japan International Cooperation Agency	BMA Bangkok Metropolitan Administration	Scale	1 / 500
		Drawing NO	6238
		Date	SEPTEMBER 90
		Total	127 / 143



- LEGEND**
- E—□ ELECTRICAL POWER LINE WITH POLE
 - T—□ TELEPHONE LINE WITH POLE
 - E,T—□ ELECTRICAL POWER LINE & TELEPHONE LINE WITH POLE
 - ELECTRICAL UNDERGROUND LINE WITH MANHOLE
 - TELEPHONE UNDERGROUND LINE WITH MANHOLE
 - DRAINAGE LINE WITH MANHOLE
 - ⊕ ELECTRICAL POLE WITH LIGHTING
 - ⊙ LIGHTING POLE
 - ⊕ WATER SUPPLY VALVE
 - TRAFFIC SIGNAL POLE
 - ⊠ TRAFFIC SIGNAL CONTROLLER
 - ⊞ HAND HOLE
 - ⊡ TELEPHONE CAB
 - ⊟ PUBLIC TELEPHONE

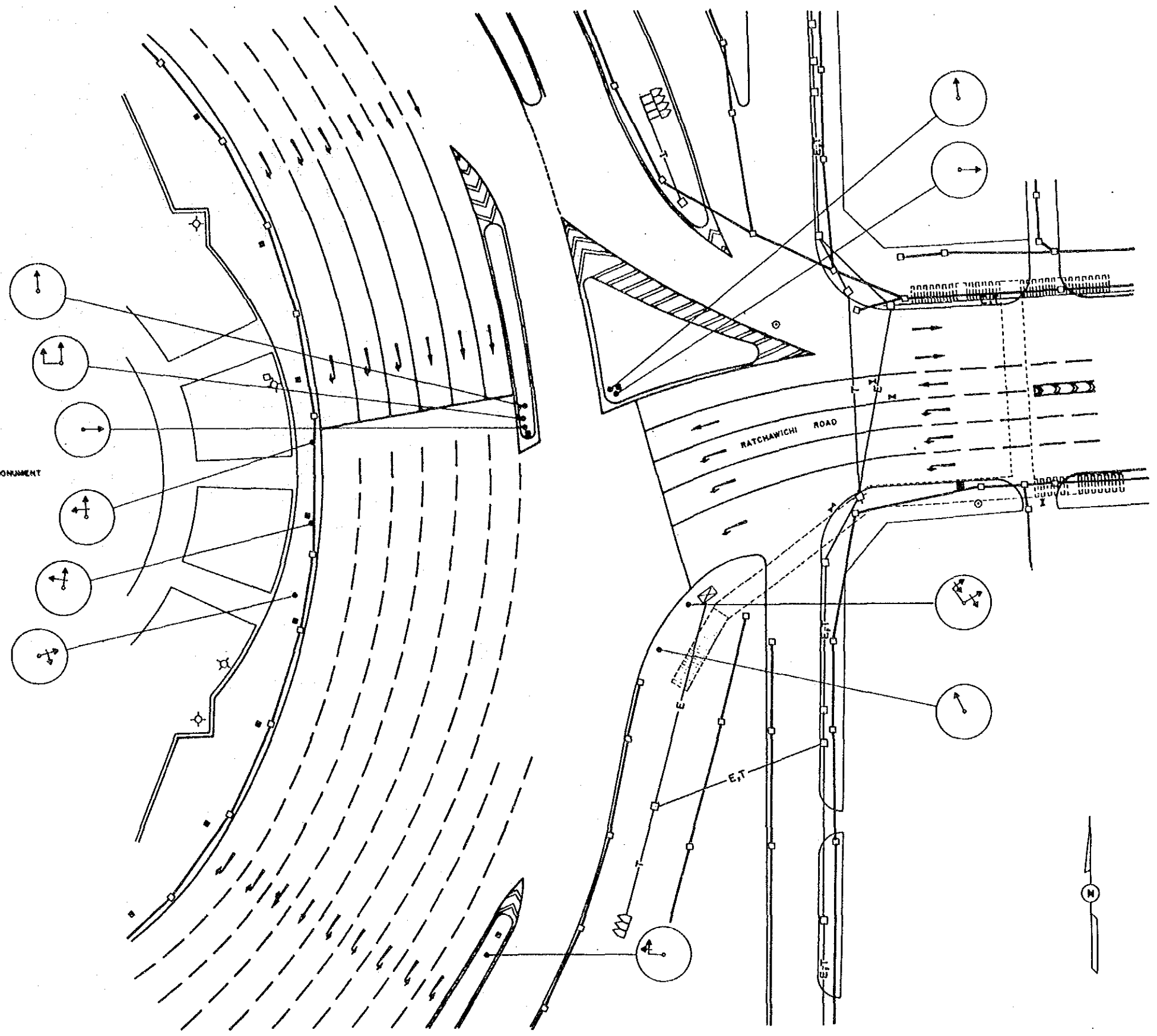


BANGKOK AREA TRAFFIC CONTROL SYSTEM PROJECT : STAGE I			
EXISTING UTILITY LINES AT INTERSECTION			
CHARU MUANG-CHARAT MUANG			
INTERSECTION NO	245	Survey In	MAY 1990
JICA	BMA	Scale	1 / 500
<small>Japan International Cooperation Agency</small>	<small>Bangkok Metropolitan Administration</small>	Date	SEPTEMBER 99
		Drawing NO	6243
		Total	128 / 143



- LEGEND**
- E—□ ELECTRICAL POWER LINE WITH POLE
 - T—□ TELEPHONE LINE WITH POLE
 - E,T—□ ELECTRICAL POWER LINE & TELEPHONE LINE WITH POLE
 - ELECTRICAL UNDERGROUND LINE WITH MANHOLE
 - TELEPHONE UNDERGROUND LINE WITH MANHOLE
 - DRAINAGE LINE WITH MANHOLE
 - ⊕ ELECTRICAL POLE WITH LIGHTING
 - ◇ LIGHTING POLE
 - ⋈ WATER SUPPLY VALVE
 - TRAFFIC SIGNAL POLE
 - ⊠ TRAFFIC SIGNAL CONTROLLER
 - ⊞ HAND HOLE
 - TELEPHONE CAB
 - ⌒ PUBLIC TELEPHONE

BANGKOK AREA TRAFFIC CONTROL SYSTEM PROJECT : STAGE I			
EXISTING UTILITY LINES AT INTERSECTION			
VICTORY MONUMENT-PHAHON YOTHIN			
INTERSECTION NO	254	Survey in	MAY 1990
JICA Japan International Cooperation Agency	BMA Bangkok Metropolitan Administration	Scale	1 / 500
		Date	SEPTEMBER 90
		Drawing NO	6254
		Total	129 / 143



LEGEND

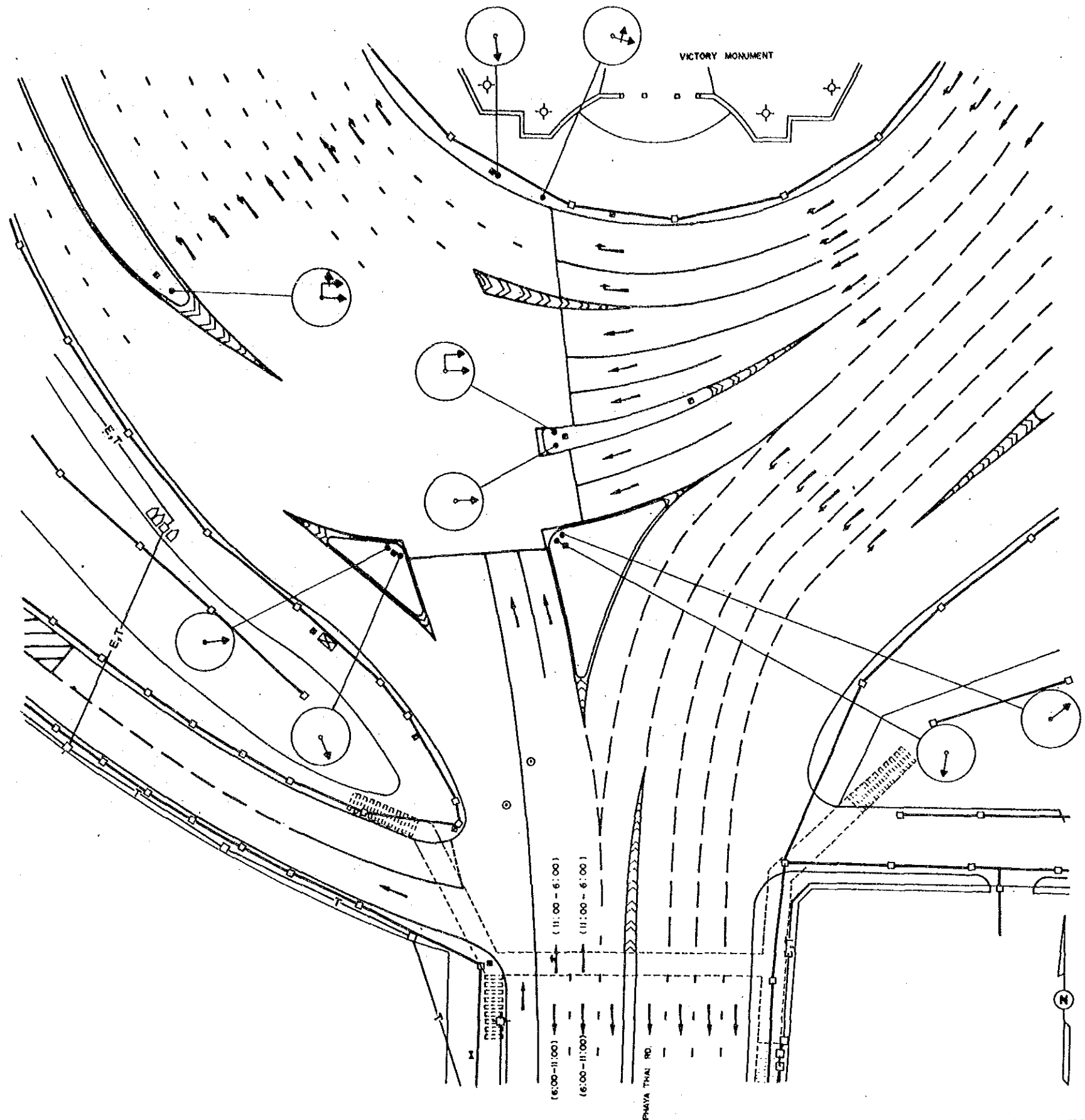
- E—□ ELECTRICAL POWER LINE WITH POLE
- T—□ TELEPHONE LINE WITH POLE
- E,T—□ ELECTRICAL POWER LINE & TELEPHONE LINE WITH POLE
- ELECTRICAL UNDERGROUND LINE WITH MANHOLE
- TELEPHONE UNDERGROUND LINE WITH MANHOLE
- DRAINAGE LINE WITH MANHOLE
- ⊕ ELECTRICAL POLE WITH LIGHTING
- ⊕ LIGHTING POLE
- ⊕ WATER SUPPLY VALVE
- TRAFFIC SIGNAL POLE
- ⊠ TRAFFIC SIGNAL CONTROLLER
- HAND HOLE
- TELEPHONE CAB
- ⌒ PUBLIC TELEPHONE

BANGKOK AREA TRAFFIC CONTROL SYSTEM PROJECT : STAGE I

EXISTING UTILITY LINES AT INTERSECTION

VICTORY MONUMENT-RATCHAWITHI (EAST)

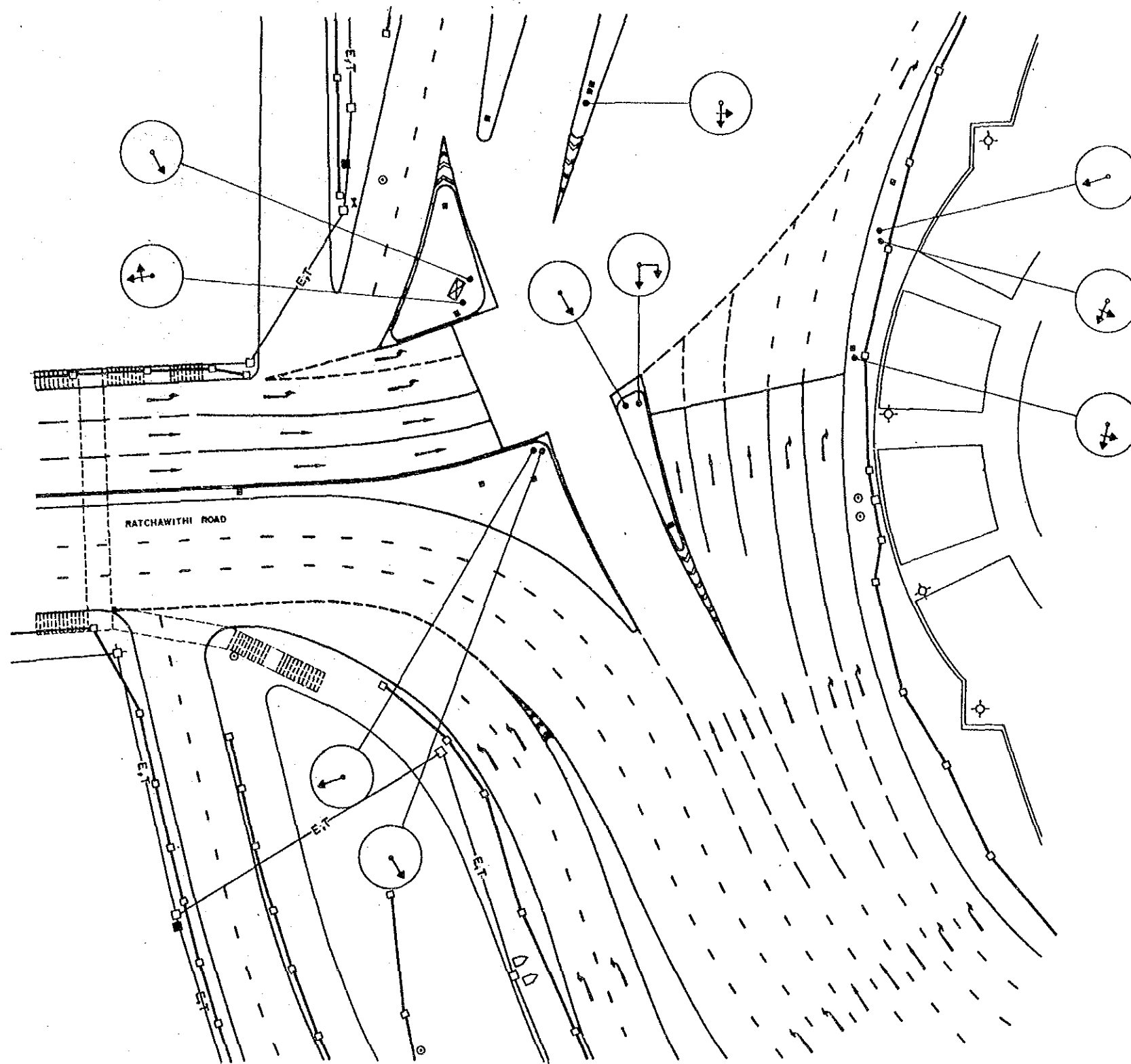
INTERSECTION NO		255	Survey In		MAY 1990
JICA Japan International Cooperation Agency	BMA Bangkok Metropolitan Administration	Scale	1 / 500	Drawing No	6255
		Date	SEPTEMBER 1990	Total	130 / 143



LEGEND

- E—□ ELECTRICAL POWER LINE WITH POLE
- T—□ TELEPHONE LINE WITH POLE
- E,T—□ ELECTRICAL POWER LINE & TELEPHONE LINE WITH POLE
- ELECTRICAL UNDERGROUND LINE WITH MANHOLE
- TELEPHONE UNDERGROUND LINE WITH MANHOLE
- DRAINAGE LINE WITH MANHOLE
- ⊕ ELECTRICAL POLE WITH LIGHTING
- ⊕ LIGHTING POLE
- ⊕ WATER SUPPLY VALVE
- TRAFFIC SIGNAL POLE
- ⊠ TRAFFIC SIGNAL CONTROLLER
- ⊠ HAND HOLE
- TELEPHONE CAB
- PUBLIC TELEPHONE

BANGKOK AREA TRAFFIC CONTROL SYSTEM PROJECT : STAGE I			
EXISTING UTILITY LINES AT INTERSECTION			
VICTORY MONUMENT-PHAYA THAI			
INTERSECTION NO	256	Survey In	MAY 1990
JICA Japan International Cooperation Agency	BMA Bangkok Metropolitan Administration	Scale	1 / 500
		Date	SEPTEMBER 1990
		Drawing NO	8256
		Total	131 / 143

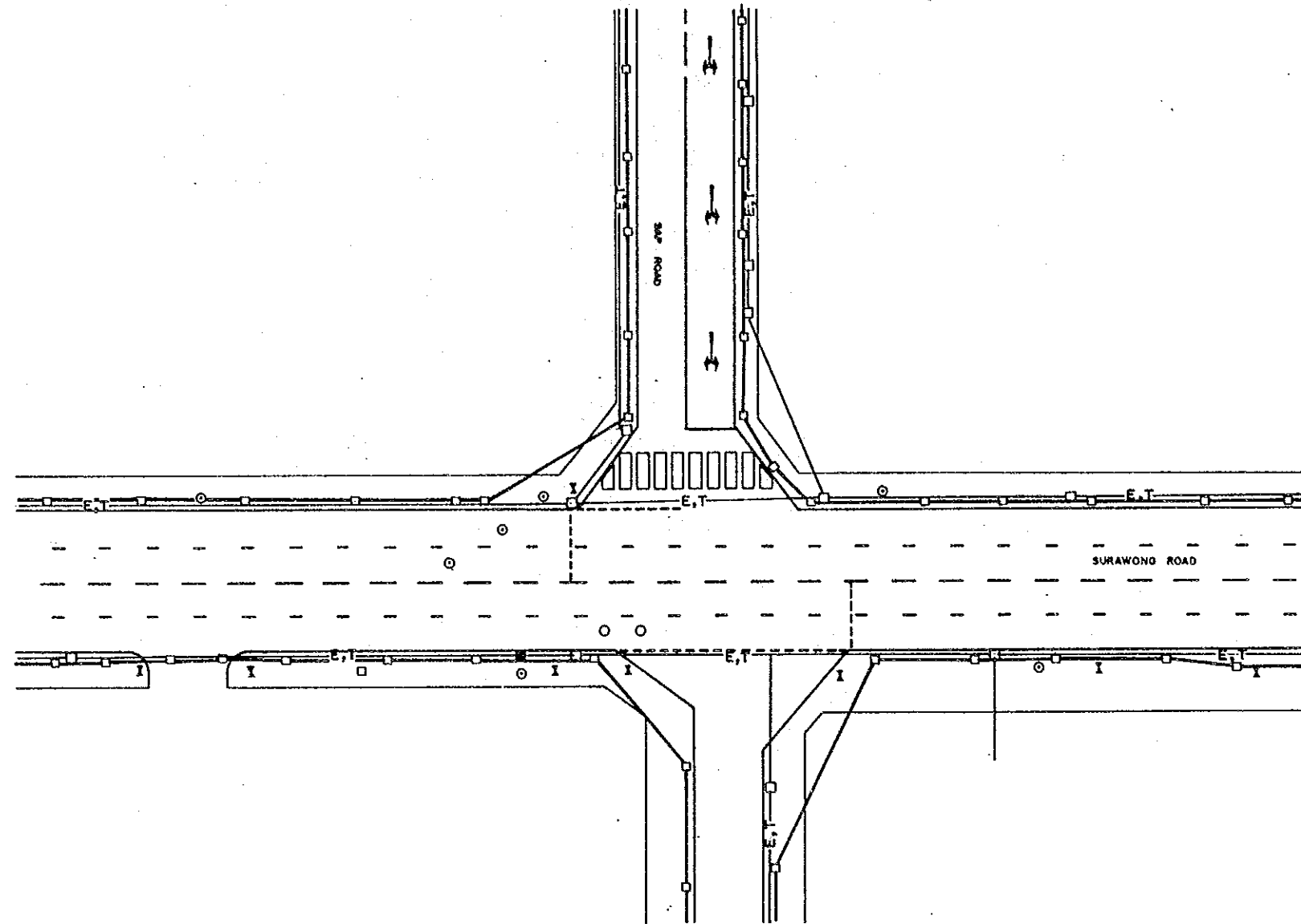


LEGEND

- E—□ ELECTRICAL POWER LINE WITH POLE
- T—□ TELEPHONE LINE WITH POLE
- E,T—□ ELECTRICAL POWER LINE & TELEPHONE LINE WITH POLE
- ELECTRICAL UNDERGROUND LINE WITH MANHOLE
- TELEPHONE UNDERGROUND LINE WITH MANHOLE
- DRAINAGE LINE WITH MANHOLE
- ⊕ ELECTRICAL POLE WITH LIGHTING
- ⊕ LIGHTING POLE
- ⊕ WATER SUPPLY VALVE
- TRAFFIC SIGNAL POLE
- ⊕ TRAFFIC SIGNAL CONTROLLER
- ⊕ HAND HOLE
- ⊕ TELEPHONE CAB
- ⊕ PUBLIC TELEPHONE

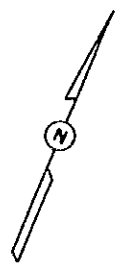


BANGKOK AREA TRAFFIC CONTROL SYSTEM PROJECT : STAGE I			
EXISTING UTILITY LINES AT INTERSECTION			
RATCHAWITHI (WEST)-VICTORY MONUMENT			
INTERSECTION NO	257	Survey In	MAY 1990
JICA Japan International Cooperation Agency	SMA Bangkok Metropolitan Administration	Scale	1 / 500
		Date	(SEPTEMBER) 90
		Drawing No	6257
		Total	132 / 143



LEGEND

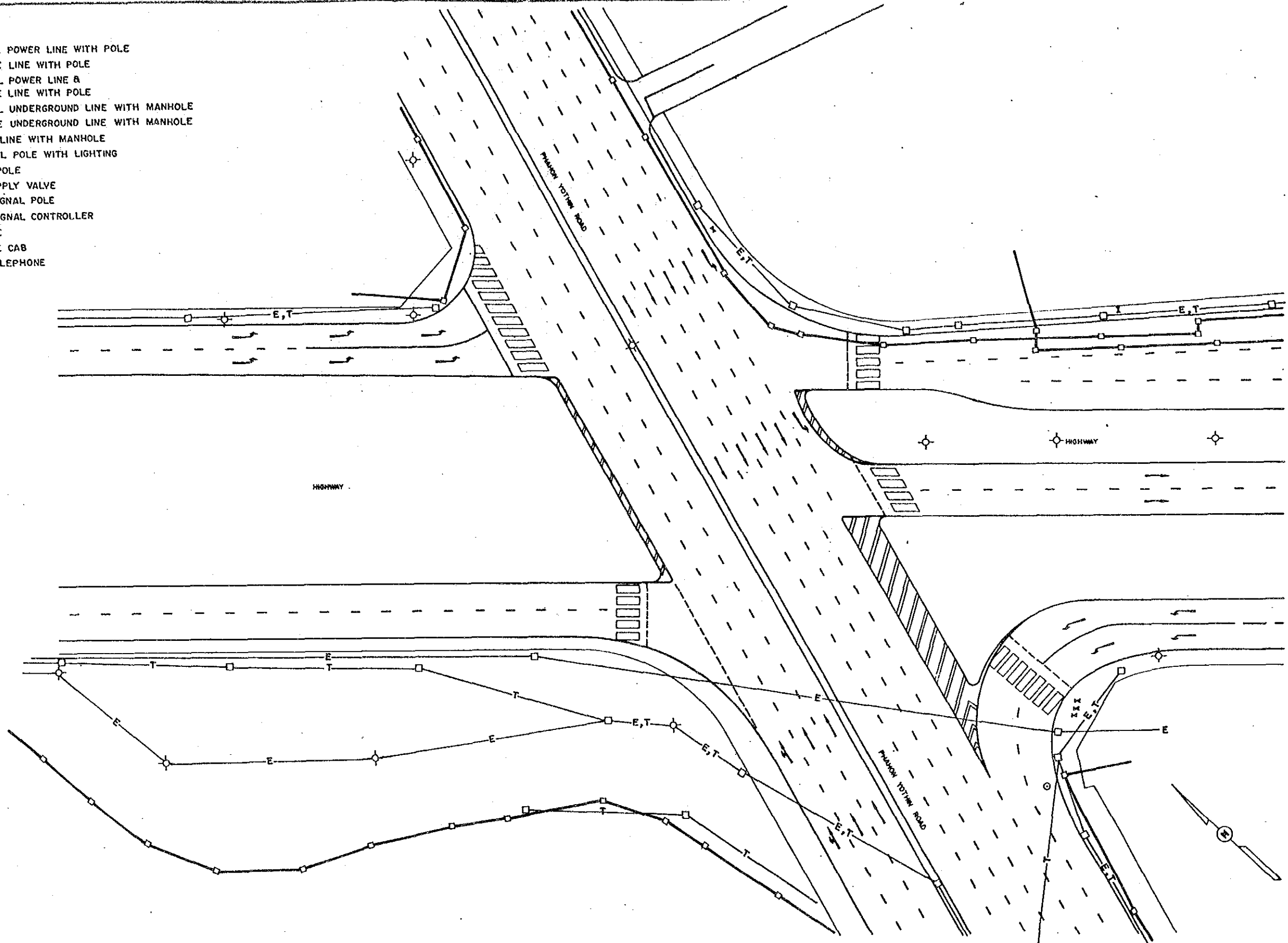
- E—□ ELECTRICAL POWER LINE WITH POLE
- T—□ TELEPHONE LINE WITH POLE
- E,T—□ ELECTRICAL POWER LINE & TELEPHONE LINE WITH POLE
- ELECTRICAL UNDERGROUND LINE WITH MANHOLE
- TELEPHONE UNDERGROUND LINE WITH MANHOLE
- DRAINAGE LINE WITH MANHOLE
- ⊕ ELECTRICAL POLE WITH LIGHTING
- ⊙ LIGHTING POLE
- ⋈ WATER SUPPLY VALVE
- TRAFFIC SIGNAL POLE
- ⊠ TRAFFIC SIGNAL CONTROLLER
- ⊞ HAND HOLE
- TELEPHONE CAB
- ⏏ PUBLIC TELEPHONE



BANGKOK AREA TRAFFIC CONTROL SYSTEM PROJECT : STAGE I			
EXISTING UTILITY LINES AT INTERSECTION			
SURAWONG-SAP			
INTERSECTION NO	266	Survey In	MAY 1990
JICA Japan International Cooperation Agency	BMA Bangkok Metropolitan Administration	Scale	1 / 500
		Date	SEPTEMBER 89
		Drawing NO	6266
		Total	133 / 143

LEGEND

- E—□ ELECTRICAL POWER LINE WITH POLE
- T—□ TELEPHONE LINE WITH POLE
- E,T—□ ELECTRICAL POWER LINE & TELEPHONE LINE WITH POLE
- ELECTRICAL UNDERGROUND LINE WITH MANHOLE
- TELEPHONE UNDERGROUND LINE WITH MANHOLE
- DRAINAGE LINE WITH MANHOLE
- ⊕ ELECTRICAL POLE WITH LIGHTING
- ⊕ LIGHTING POLE
- ⊕ WATER SUPPLY VALVE
- TRAFFIC SIGNAL POLE
- ⊗ TRAFFIC SIGNAL CONTROLLER
- ⊕ HAND HOLE
- ⊕ TELEPHONE CAB
- ⊕ PUBLIC TELEPHONE

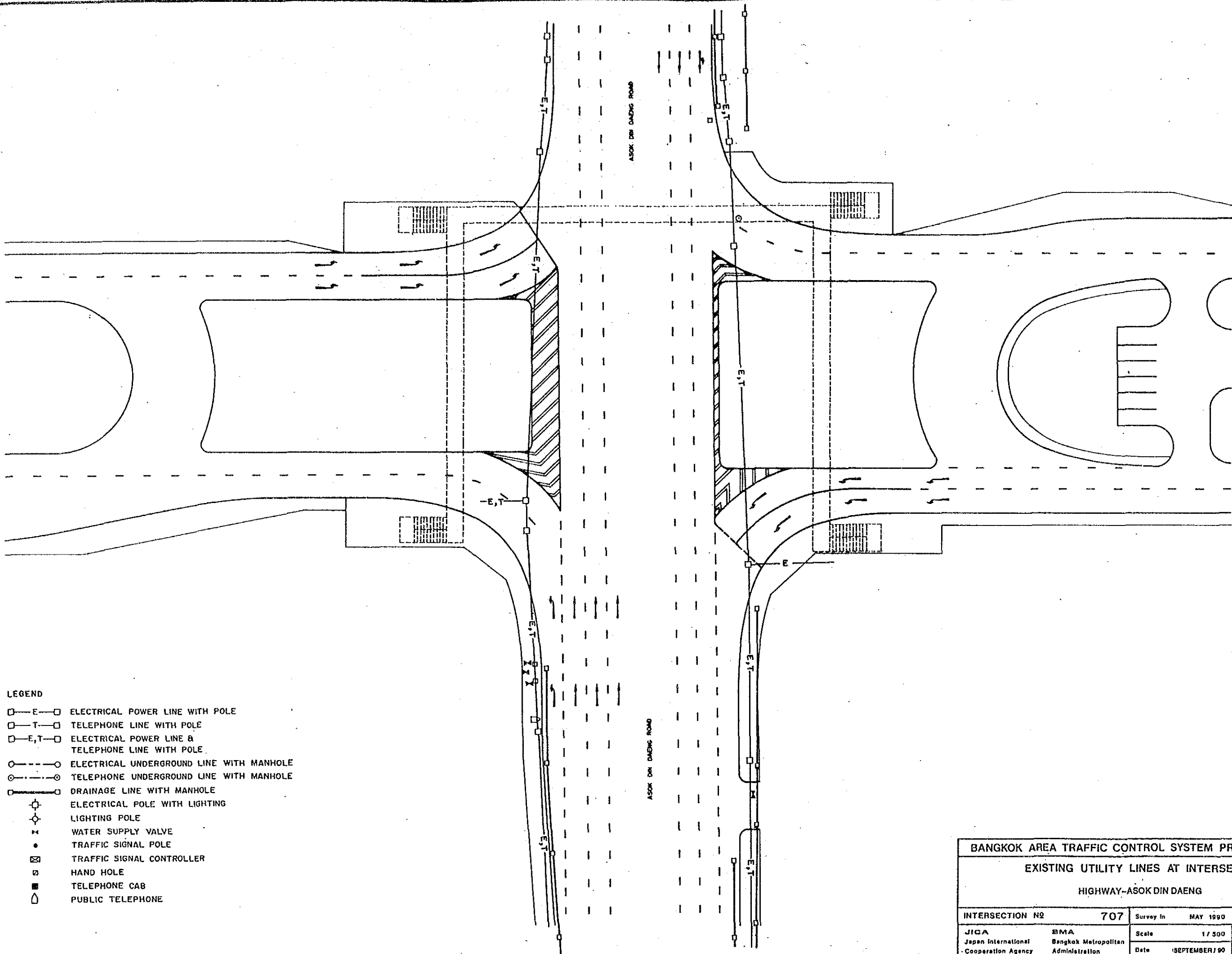


BANGKOK AREA TRAFFIC CONTROL SYSTEM PROJECT : STAGE I

EXISTING UTILITY LINES AT INTERSECTION

HIGHWAY-PHAHON YOTHIN

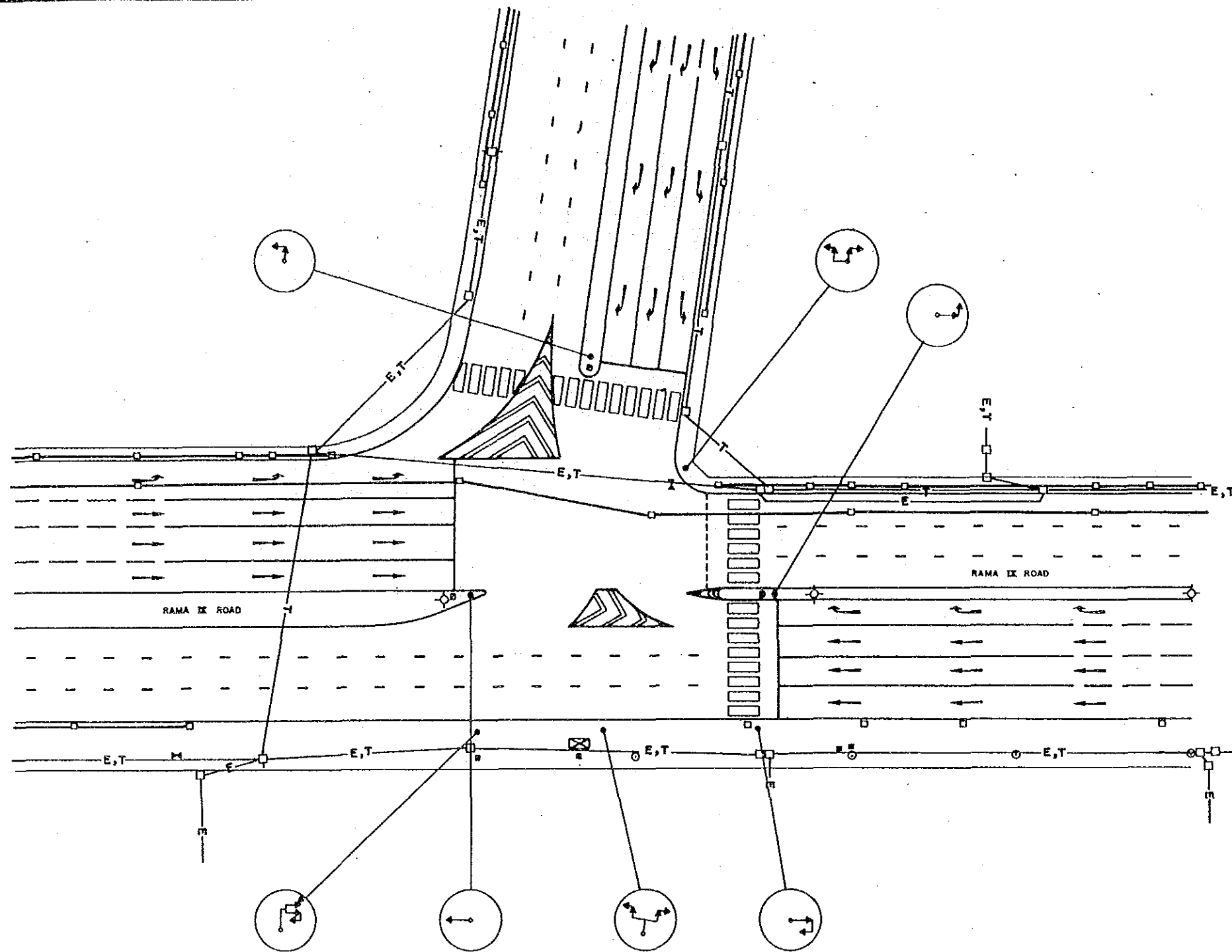
INTERSECTION NO	706	Survey In	MAY 1990
JICA Japan International Cooperation Agency	BMA Bangkok Metropolitan Administration	Scale	1 / 500
		Drawing No	6706
		Date	SEPTEMBER/90
		Total	134 / 143



- LEGEND**
- E—□ ELECTRICAL POWER LINE WITH POLE
 - T—□ TELEPHONE LINE WITH POLE
 - E,T—□ ELECTRICAL POWER LINE & TELEPHONE LINE WITH POLE
 - ELECTRICAL UNDERGROUND LINE WITH MANHOLE
 - TELEPHONE UNDERGROUND LINE WITH MANHOLE
 - DRAINAGE LINE WITH MANHOLE
 - ⊕ ELECTRICAL POLE WITH LIGHTING
 - ⊙ LIGHTING POLE
 - ⊕ WATER SUPPLY VALVE
 - TRAFFIC SIGNAL POLE
 - ⊠ TRAFFIC SIGNAL CONTROLLER
 - ⊞ HAND HOLE
 - TELEPHONE CAB
 - ⏏ PUBLIC TELEPHONE



BANGKOK AREA TRAFFIC CONTROL SYSTEM PROJECT : STAGE I			
EXISTING UTILITY LINES AT INTERSECTION			
HIGHWAY-ASOK DIN DAENG			
INTERSECTION NO	707	Survey In	MAY 1990
JICA Japan International Cooperation Agency	BMA Bangkok Metropolitan Administration	Scale	1 / 500
		Date	SEPTEMBER/90
		Drawing NO	6707
		Total	135 / 143



LEGEND

- E—□ ELECTRICAL POWER LINE WITH POLE
- T—□ TELEPHONE LINE WITH POLE
- E,T—□ ELECTRICAL POWER LINE & TELEPHONE LINE WITH POLE
- ELECTRICAL UNDERGROUND LINE WITH MANHOLE
- TELEPHONE UNDERGROUND LINE WITH MANHOLE
- DRAINAGE LINE WITH MANHOLE
- ⊕ ELECTRICAL POLE WITH LIGHTING
- ⊙ LIGHTING POLE
- ⋈ WATER SUPPLY VALVE
- TRAFFIC SIGNAL POLE
- ⊠ TRAFFIC SIGNAL CONTROLLER
- ⊞ HAND HOLE
- TELEPHONE CAB
- ⌚ PUBLIC TELEPHONE

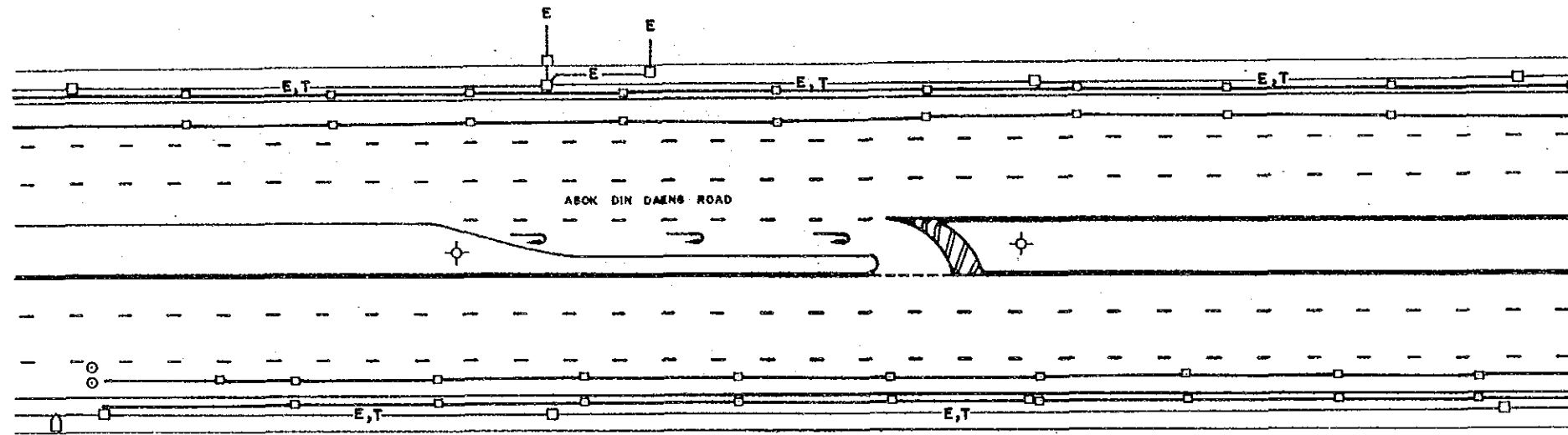


BANGKOK AREA TRAFFIC CONTROL SYSTEM PROJECT: STAGE I

EXISTING UTILITY LINES AT INTERSECTION

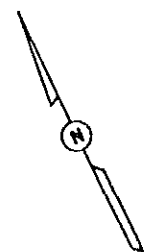
HIGHWAY-RAMA IX

INTERSECTION NO	708	Survey In	MAY 1990
JICA Japan International Cooperation Agency	BMA Bangkok Metropolitan Administration	Scale	1 / 500
		Date	SEPTEMBER, 90
		Drawing No	6708
		Total	136 / 143

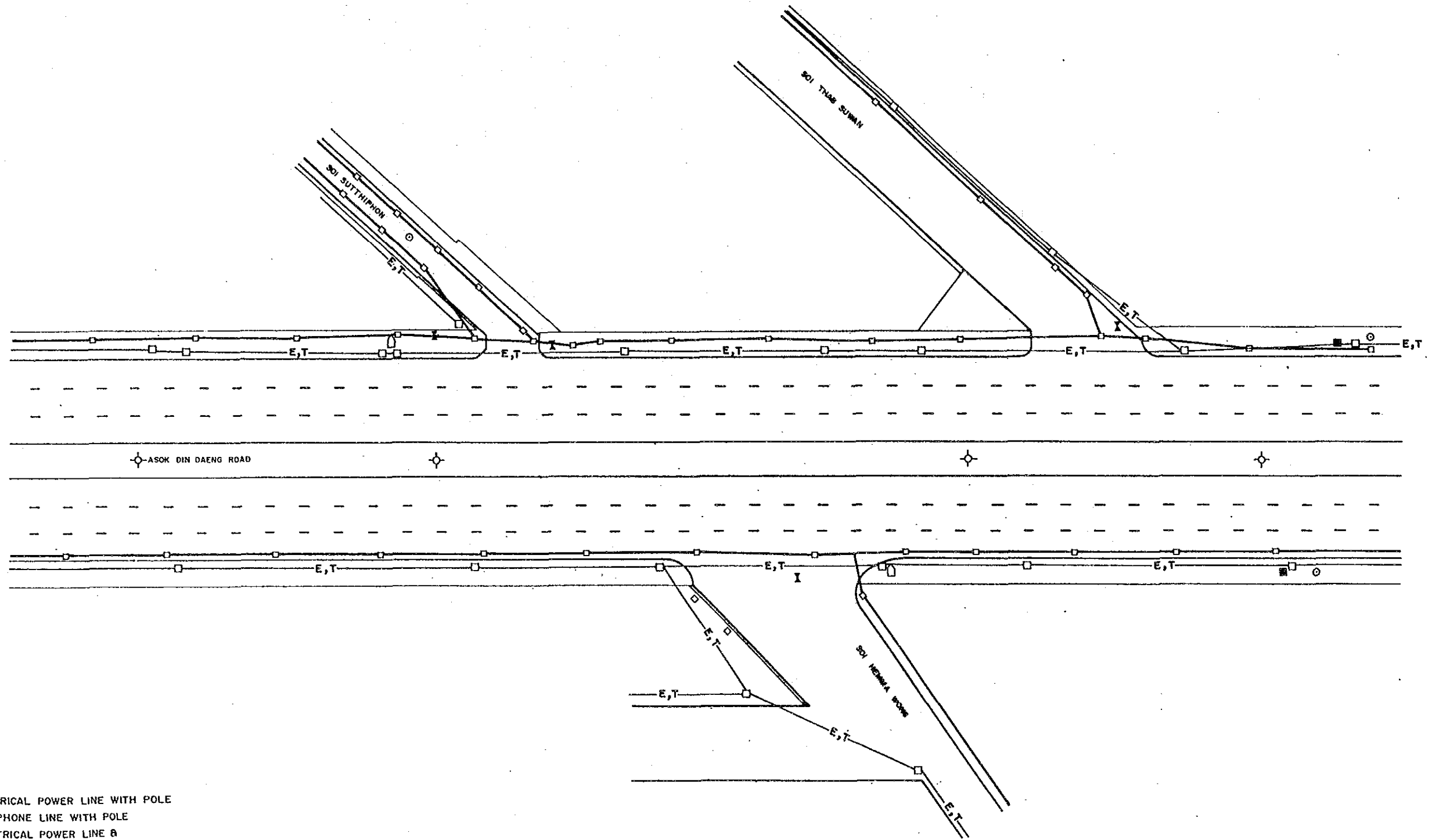


LEGEND

- E—□ ELECTRICAL POWER LINE WITH POLE
- T—□ TELEPHONE LINE WITH POLE
- E,T—□ ELECTRICAL POWER LINE & TELEPHONE LINE WITH POLE
- ELECTRICAL UNDERGROUND LINE WITH MANHOLE
- TELEPHONE UNDERGROUND LINE WITH MANHOLE
- DRAINAGE LINE WITH MANHOLE
- ⊕ ELECTRICAL POLE WITH LIGHTING
- ⊙ LIGHTING POLE
- ⊕ WATER SUPPLY VALVE
- TRAFFIC SIGNAL POLE
- ⊠ TRAFFIC SIGNAL CONTROLLER
- ⊞ HAND HOLE
- ⊞ TELEPHONE CAB
- ⊞ PUBLIC TELEPHONE



BANGKOK AREA TRAFFIC CONTROL SYSTEM PROJECT: STAGE I			
EXISTING UTILITY LINES AT INTERSECTION			
U-TURN AT ASOK DIN DAENG (WEST)			
INTERSECTION NO	801	Survey In	MAY 1990
JICA Japan International Cooperation Agency	BMA Bangkok Metropolitan Administration	Scale	1 / 500
		Date	SEPTEMBER 1990
		Drawing NO	6801
		Total	137 / 143

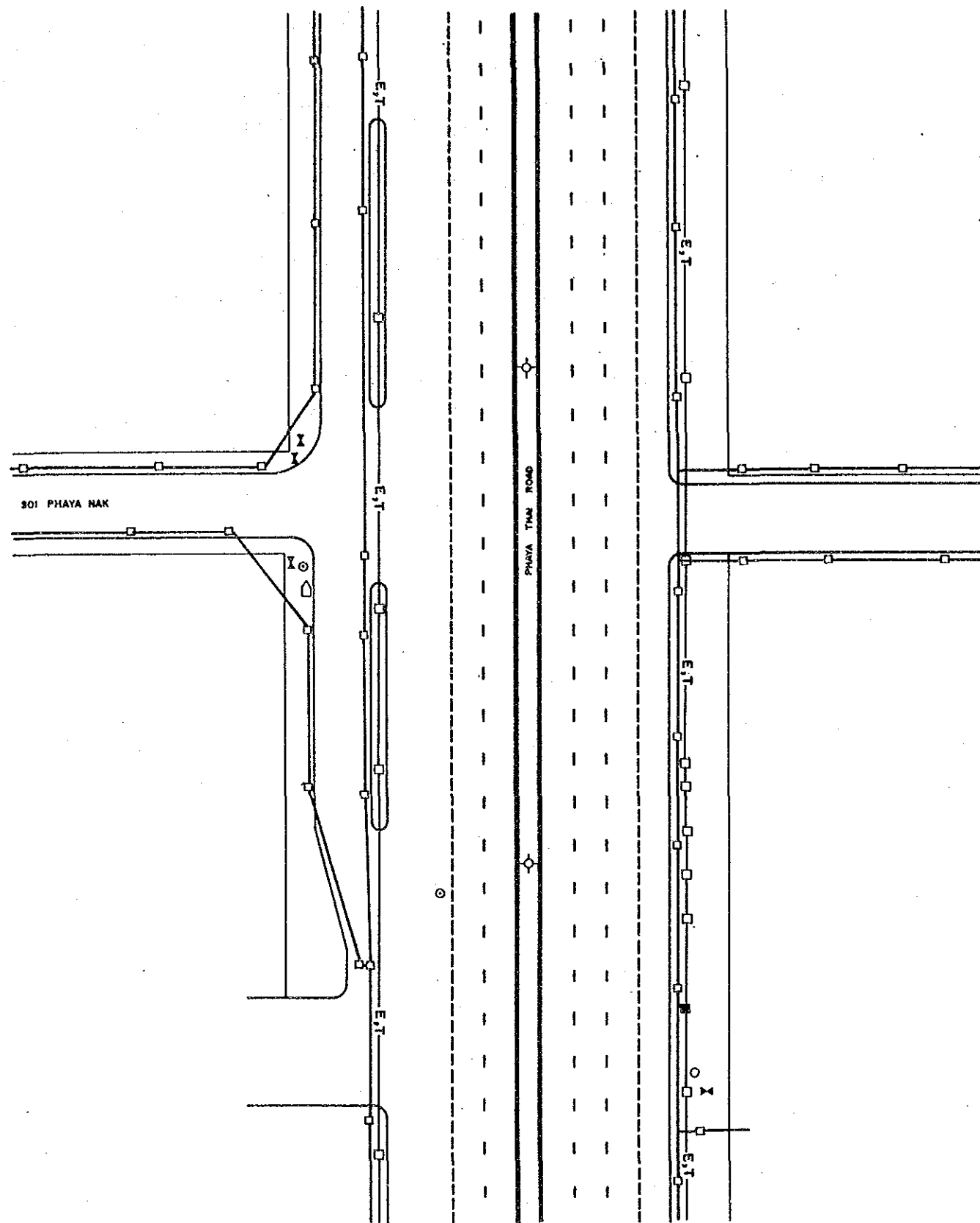


LEGEND

- E—□ ELECTRICAL POWER LINE WITH POLE
- T—□ TELEPHONE LINE WITH POLE
- E,T—□ ELECTRICAL POWER LINE & TELEPHONE LINE WITH POLE
- ELECTRICAL UNDERGROUND LINE WITH MANHOLE
- TELEPHONE UNDERGROUND LINE WITH MANHOLE
- DRAINAGE LINE WITH MANHOLE
- ⊕ ELECTRICAL POLE WITH LIGHTING
- ◇ LIGHTING POLE
- × WATER SUPPLY VALVE
- TRAFFIC SIGNAL POLE
- ⊠ TRAFFIC SIGNAL CONTROLLER
- ◻ HAND HOLE
- TELEPHONE CAB
- ⏏ PUBLIC TELEPHONE



BANGKOK AREA TRAFFIC CONTROL SYSTEM PROJECT : STAGE I			
EXISTING UTILITY LINES AT INTERSECTION			
U-TURN AT ASOK DIN DAENG (EAST)			
INTERSECTION NO	802	Survey In	MAY 1990
JICA Japan International Cooperation Agency	BMA Bangkok Metropolitan Administration	Scale	1 / 500
		Drawing NO	6802
		Date	SEPTEMBER 90
		Total	138 / 143



LEGEND

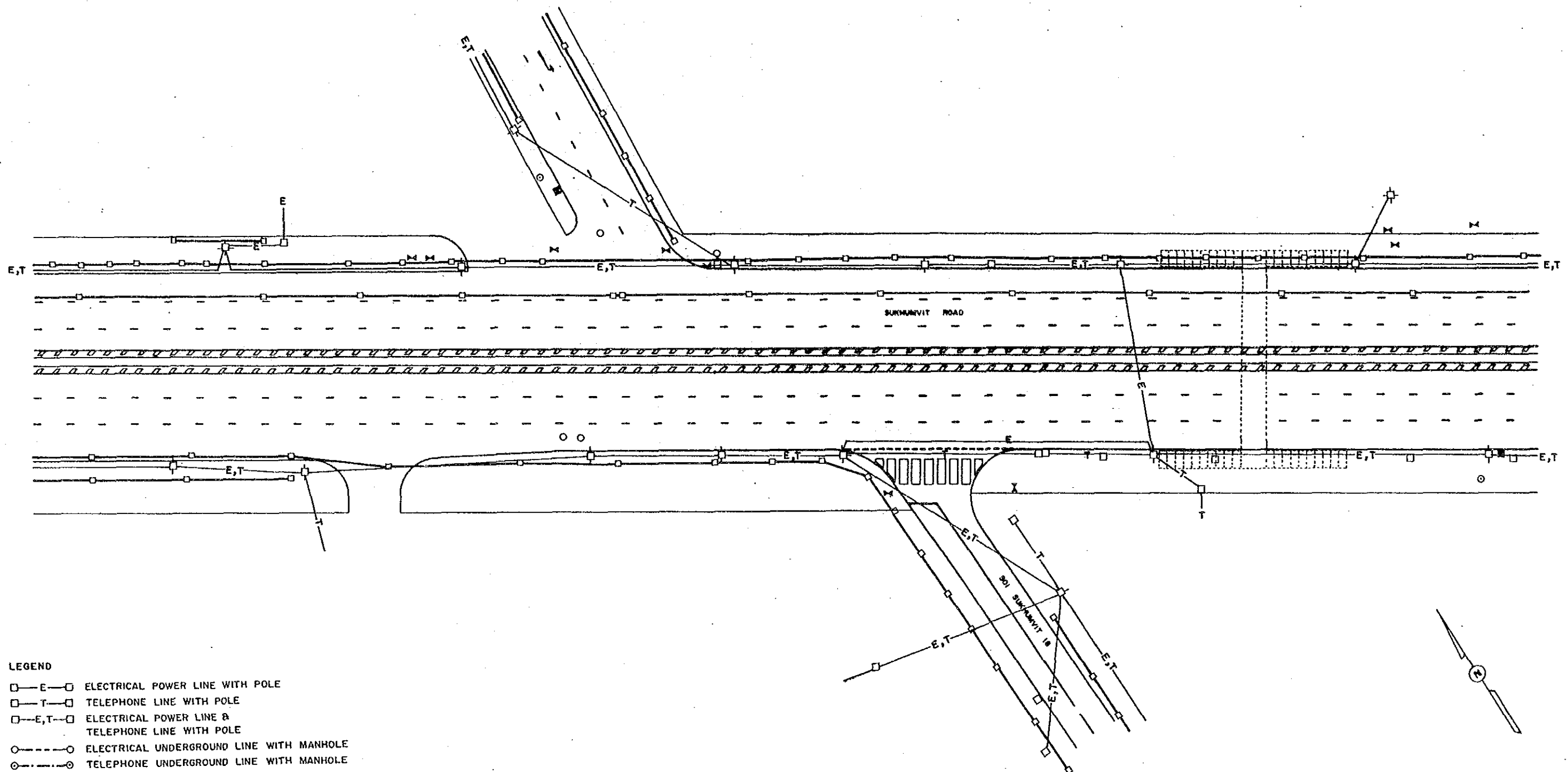
- E—□ ELECTRICAL POWER LINE WITH POLE
- T—□ TELEPHONE LINE WITH POLE
- E,T—□ ELECTRICAL POWER LINE & TELEPHONE LINE WITH POLE
- ELECTRICAL UNDERGROUND LINE WITH MANHOLE
- TELEPHONE UNDERGROUND LINE WITH MANHOLE
- DRAINAGE LINE WITH MANHOLE
- ⊕ ELECTRICAL POLE WITH LIGHTING
- ◇ LIGHTING POLE
- ⋈ WATER SUPPLY VALVE
- TRAFFIC SIGNAL POLE
- ⊠ TRAFFIC SIGNAL CONTROLLER
- ⊞ HAND HOLE
- TELEPHONE CAB
- ⏏ PUBLIC TELEPHONE

BANGKOK AREA TRAFFIC CONTROL SYSTEM PROJECT: STAGE I

EXISTING UTILITY LINES AT INTERSECTION

U-TURN AT PHAYA THAI (ASIA HOTEL)

INTERSECTION NO		803	Survey In		MAY 1990
JICA Japan International Cooperation Agency	BMA Bangkok Metropolitan Administration	Scale	1 / 500	Drawing No	6803
		Date	SEPTEMBER 90	Total	139 / 143



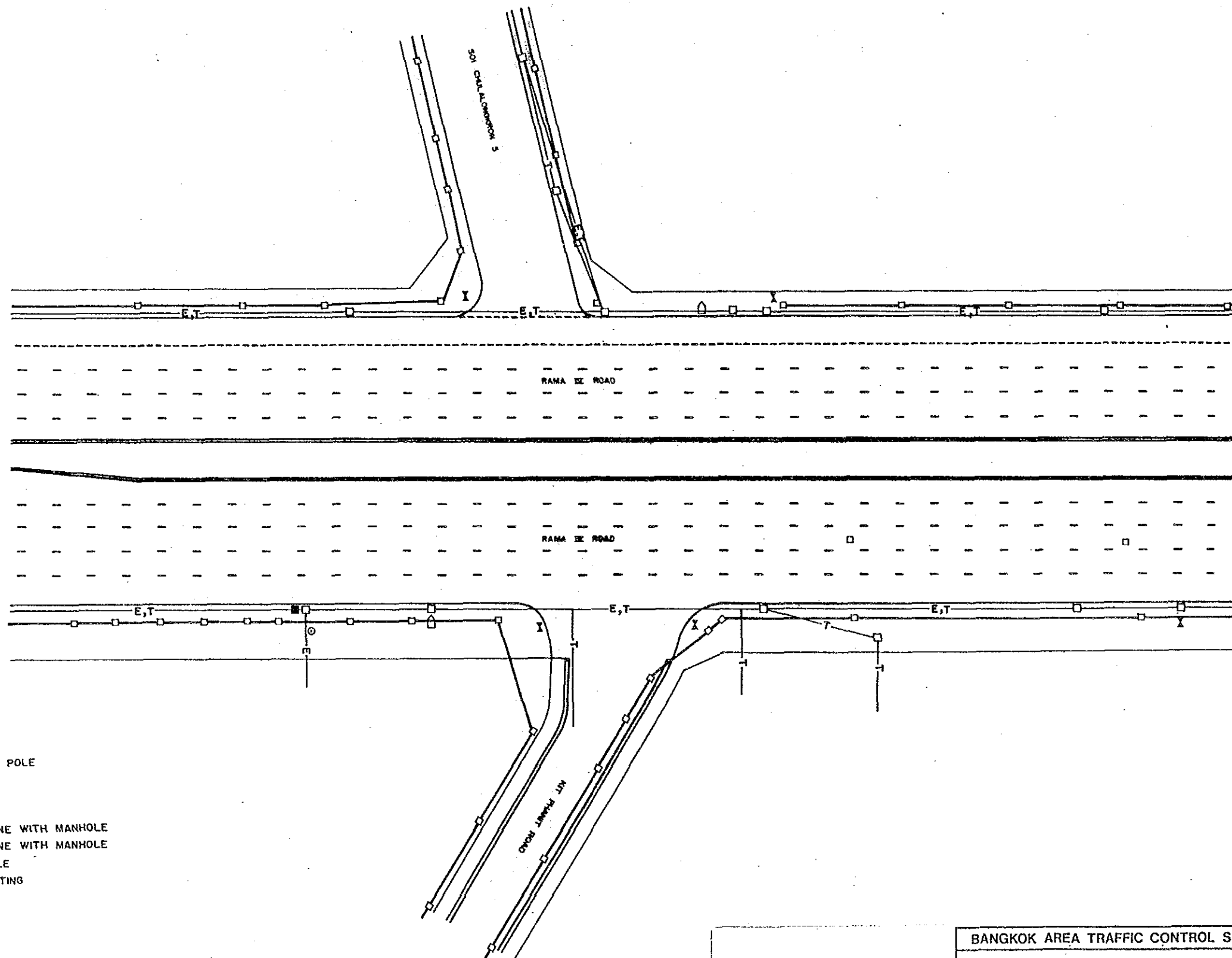
- LEGEND**
- E—□ ELECTRICAL POWER LINE WITH POLE
 - T—□ TELEPHONE LINE WITH POLE
 - E,T—□ ELECTRICAL POWER LINE & TELEPHONE LINE WITH POLE
 - ELECTRICAL UNDERGROUND LINE WITH MANHOLE
 - TELEPHONE UNDERGROUND LINE WITH MANHOLE
 - DRAINAGE LINE WITH MANHOLE
 - ⊕ ELECTRICAL POLE WITH LIGHTING
 - ◇ LIGHTING POLE
 - ⋈ WATER SUPPLY VALVE
 - TRAFFIC SIGNAL POLE
 - ⊠ TRAFFIC SIGNAL CONTROLLER
 - ⊞ HAND HOLE
 - TELEPHONE CAB
 - ⏏ PUBLIC TELEPHONE

BANGKOK AREA TRAFFIC CONTROL SYSTEM PROJECT: STAGE I

EXISTING UTILITY LINES AT INTERSECTION

U-TURN AT SUKHUMVIT (NEAR SOI SUKHUMVIT 18)

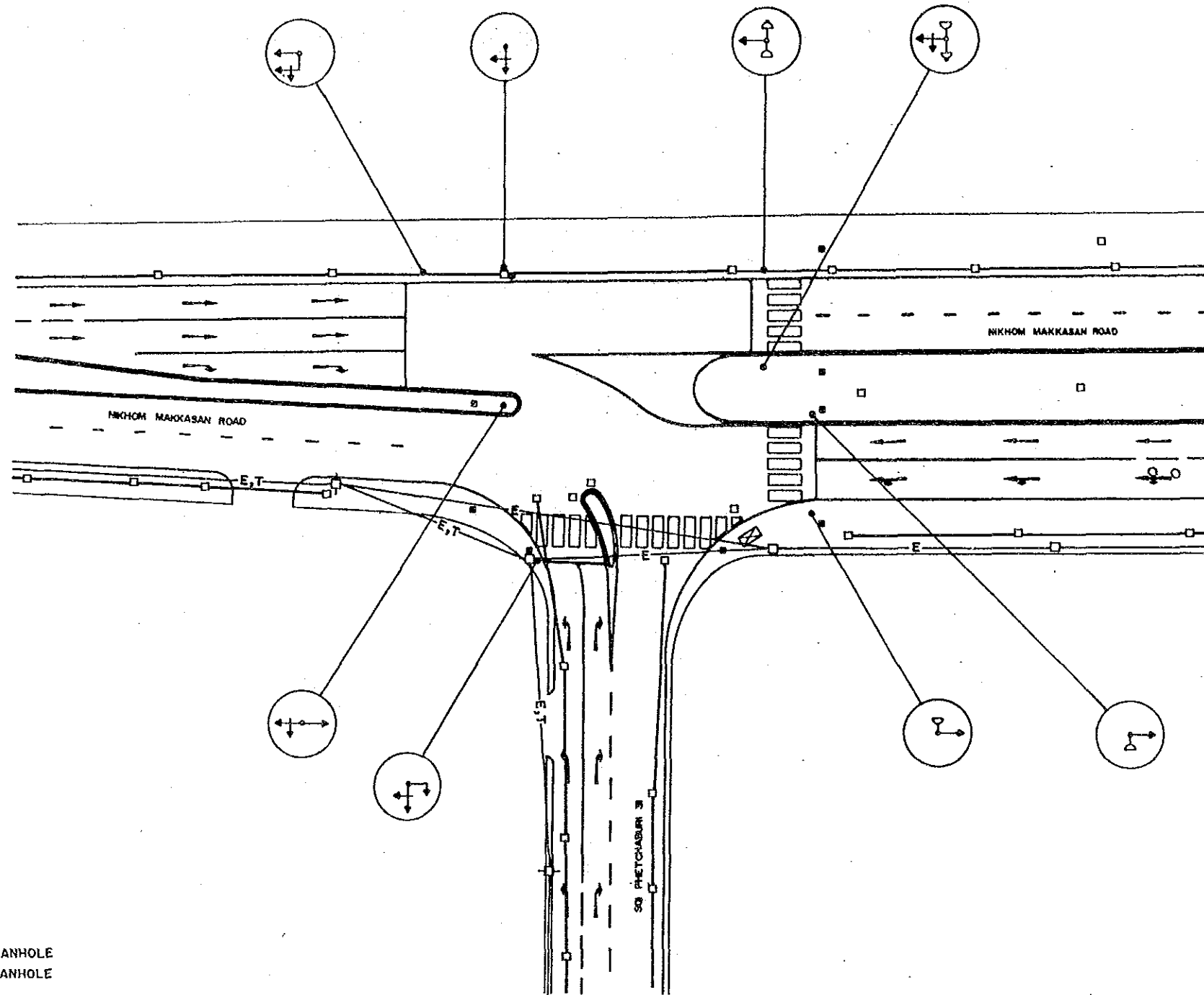
INTERSECTION NO. 804		Survey In	MAY 1990	
JICA Japan International Cooperation Agency	BMA Bangkok Metropolitan Administration	Scale	1 / 500	Drawing No. 6804
		Date	SEPTEMBER 1990	Total 140 / 143



LEGEND

- E—□ ELECTRICAL POWER LINE WITH POLE
- T—□ TELEPHONE LINE WITH POLE
- E,T—□ ELECTRICAL POWER LINE & TELEPHONE LINE WITH POLE
- ELECTRICAL UNDERGROUND LINE WITH MANHOLE
- TELEPHONE UNDERGROUND LINE WITH MANHOLE
- DRAINAGE LINE WITH MANHOLE
- ⊕ ELECTRICAL POLE WITH LIGHTING
- ⊙ LIGHTING POLE
- ⊗ WATER SUPPLY VALVE
- TRAFFIC SIGNAL POLE
- ⊠ TRAFFIC SIGNAL CONTROLLER
- HAND HOLE
- TELEPHONE CAB
- △ PUBLIC TELEPHONE

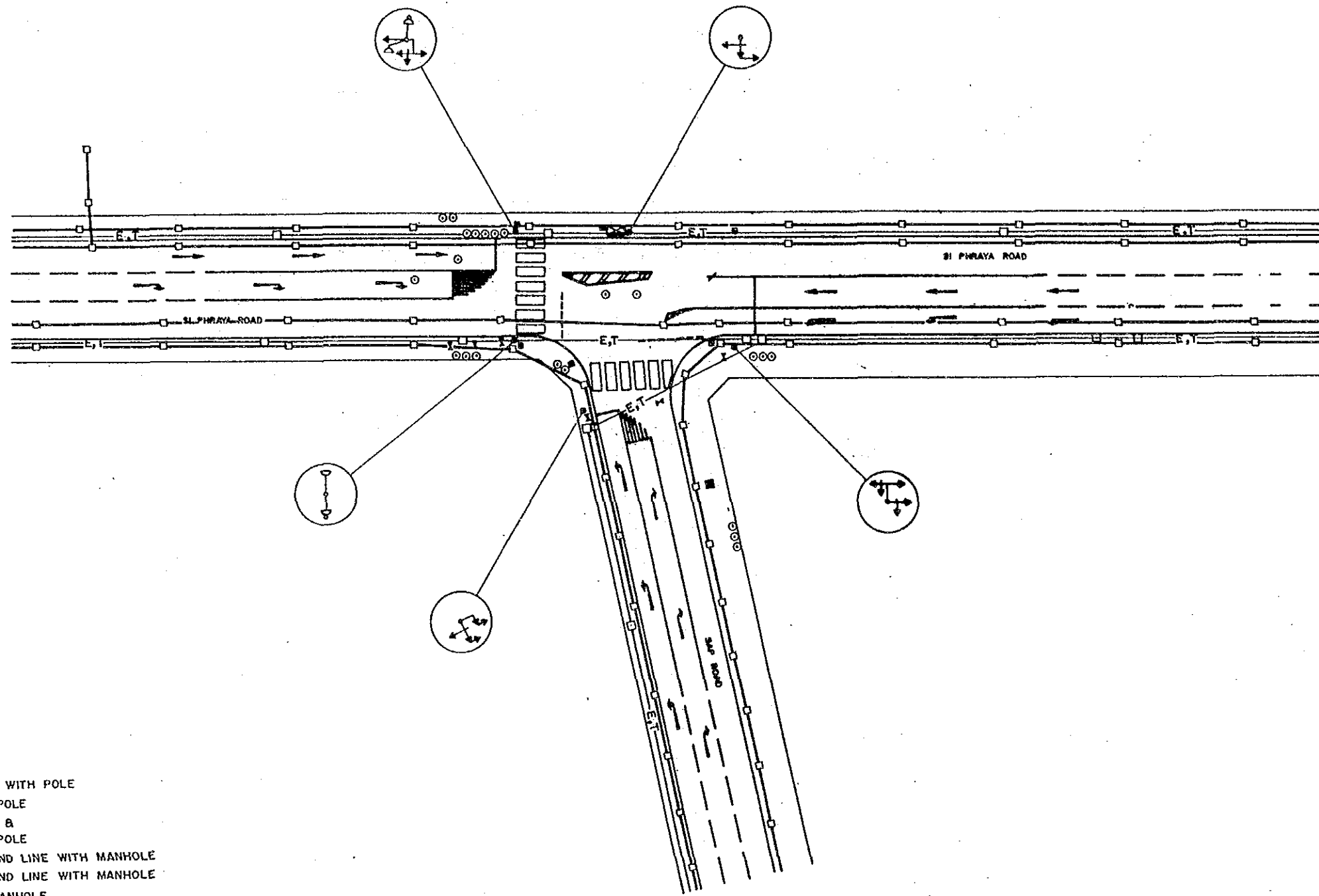
BANGKOK AREA TRAFFIC CONTROL SYSTEM PROJECT : STAGE I			
EXISTING UTILITY LINES AT INTERSECTION			
U-TURN AT RAMA IV			
INTERSECTION NO	805	Survey In	MAY 1990
JICA Japan International Cooperation Agency	BMA Bangkok Metropolitan Administration	Scale	1 / 500
		Date	(SEPTEMBER) 90
		Drawing NO	6805
		Total	141 / 143



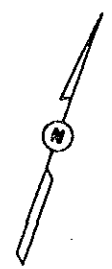
LEGEND

- E—□ ELECTRICAL POWER LINE WITH POLE
- T—□ TELEPHONE LINE WITH POLE
- E,T—□ ELECTRICAL POWER LINE & TELEPHONE LINE WITH POLE
- ELECTRICAL UNDERGROUND LINE WITH MANHOLE
- TELEPHONE UNDERGROUND LINE WITH MANHOLE
- DRAINAGE LINE WITH MANHOLE
- ⊕ ELECTRICAL POLE WITH LIGHTING
- ⊕ LIGHTING POLE
- ⊕ WATER SUPPLY VALVE
- TRAFFIC SIGNAL POLE
- ⊞ TRAFFIC SIGNAL CONTROLLER
- ⊞ HAND HOLE
- TELEPHONE CAB
- ⏏ PUBLIC TELEPHONE

BANGKOK AREA TRAFFIC CONTROL SYSTEM PROJECT: STAGE I			
EXISTING UTILITY LINES AT INTERSECTION			
NIKHOM MAKKASAN-SOI PHETCHABURI 31			
INTERSECTION NO	904	Survey In	MAY 1990
JICA Japan International Cooperation Agency	BMA Bangkok Metropolitan Administration	Scale	1 / 500
		Date	SEPTEMBER 1990
		Drawing No	6904
		Total	142 / 143



- LEGEND**
- E—□ ELECTRICAL POWER LINE WITH POLE
 - T—□ TELEPHONE LINE WITH POLE
 - E,T—□ ELECTRICAL POWER LINE & TELEPHONE LINE WITH POLE
 - ELECTRICAL UNDERGROUND LINE WITH MANHOLE
 - TELEPHONE UNDERGROUND LINE WITH MANHOLE
 - DRAINAGE LINE WITH MANHOLE
 - ⊕ ELECTRICAL POLE WITH LIGHTING
 - ⊙ LIGHTING POLE
 - × WATER SUPPLY VALVE
 - TRAFFIC SIGNAL POLE
 - ⊠ TRAFFIC SIGNAL CONTROLLER
 - HAND HOLE
 - TELEPHONE CAB
 - ⌒ PUBLIC TELEPHONE



BANGKOK AREA TRAFFIC CONTROL SYSTEM PROJECT : STAGE I			
EXISTING UTILITY LINES AT INTERSECTION			
SI PHRAYA-SAP			
INTERSECTION NO	905	Survey In	MAY 1990
JICA Japan International Cooperation Agency	BMA Bangkok Metropolitan Administration	Scale	1 / 500
		Date	SEPTEMBER/90
		Drawing No	6905
		Total	143 / 143

