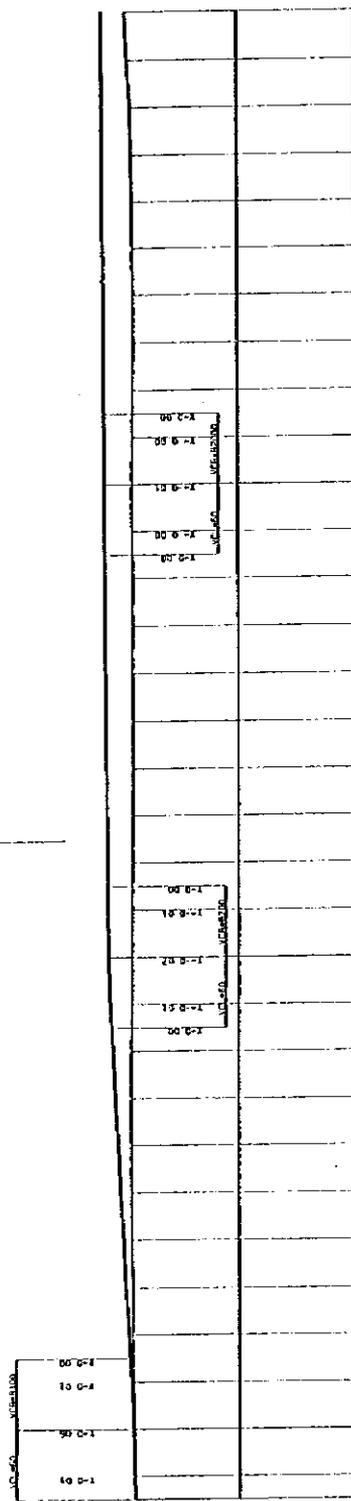


Realignment section of the RAL-1 (Main Track) L=790m

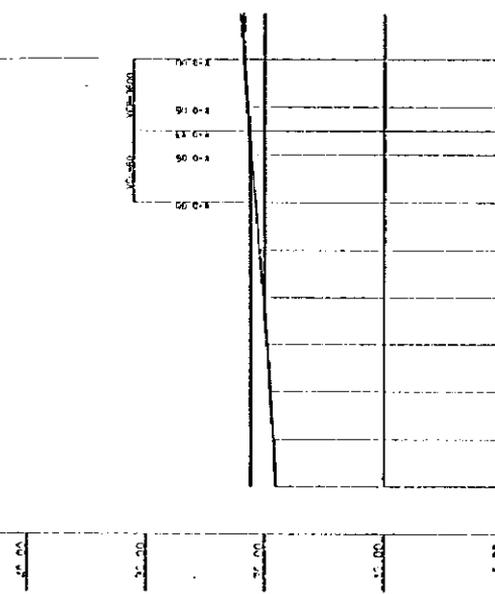
Multiple Ring Road



STATION NO.	GRADIENT	EMBAKMENT HEIGHT	CUT HEIGHT	PROPOSED HEIGHT	GROUND HEIGHT	CUMULATED HEIGHT	DISTANCE	CURVE BAND	SUPER ELEVATION
0+00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
0+10	0.00	0.00	0.00	0.00	0.00	0.00	10.00		
0+20	0.00	0.00	0.00	0.00	0.00	0.00	20.00		
0+30	0.00	0.00	0.00	0.00	0.00	0.00	30.00		
0+40	0.00	0.00	0.00	0.00	0.00	0.00	40.00		
0+50	0.00	0.00	0.00	0.00	0.00	0.00	50.00		
0+60	0.00	0.00	0.00	0.00	0.00	0.00	60.00		
0+70	0.00	0.00	0.00	0.00	0.00	0.00	70.00		
0+80	0.00	0.00	0.00	0.00	0.00	0.00	80.00		
0+90	0.00	0.00	0.00	0.00	0.00	0.00	90.00		
1+00	0.00	0.00	0.00	0.00	0.00	0.00	100.00		
1+10	0.00	0.00	0.00	0.00	0.00	0.00	110.00		
1+20	0.00	0.00	0.00	0.00	0.00	0.00	120.00		
1+30	0.00	0.00	0.00	0.00	0.00	0.00	130.00		
1+40	0.00	0.00	0.00	0.00	0.00	0.00	140.00		
1+50	0.00	0.00	0.00	0.00	0.00	0.00	150.00		
1+60	0.00	0.00	0.00	0.00	0.00	0.00	160.00		
1+70	0.00	0.00	0.00	0.00	0.00	0.00	170.00		
1+80	0.00	0.00	0.00	0.00	0.00	0.00	180.00		
1+90	0.00	0.00	0.00	0.00	0.00	0.00	190.00		
2+00	0.00	0.00	0.00	0.00	0.00	0.00	200.00		
2+10	0.00	0.00	0.00	0.00	0.00	0.00	210.00		
2+20	0.00	0.00	0.00	0.00	0.00	0.00	220.00		
2+30	0.00	0.00	0.00	0.00	0.00	0.00	230.00		
2+40	0.00	0.00	0.00	0.00	0.00	0.00	240.00		
2+50	0.00	0.00	0.00	0.00	0.00	0.00	250.00		
2+60	0.00	0.00	0.00	0.00	0.00	0.00	260.00		
2+70	0.00	0.00	0.00	0.00	0.00	0.00	270.00		
2+80	0.00	0.00	0.00	0.00	0.00	0.00	280.00		
2+90	0.00	0.00	0.00	0.00	0.00	0.00	290.00		
3+00	0.00	0.00	0.00	0.00	0.00	0.00	300.00		
3+10	0.00	0.00	0.00	0.00	0.00	0.00	310.00		
3+20	0.00	0.00	0.00	0.00	0.00	0.00	320.00		
3+30	0.00	0.00	0.00	0.00	0.00	0.00	330.00		
3+40	0.00	0.00	0.00	0.00	0.00	0.00	340.00		
3+50	0.00	0.00	0.00	0.00	0.00	0.00	350.00		
3+60	0.00	0.00	0.00	0.00	0.00	0.00	360.00		
3+70	0.00	0.00	0.00	0.00	0.00	0.00	370.00		
3+80	0.00	0.00	0.00	0.00	0.00	0.00	380.00		
3+90	0.00	0.00	0.00	0.00	0.00	0.00	390.00		
4+00	0.00	0.00	0.00	0.00	0.00	0.00	400.00		
4+10	0.00	0.00	0.00	0.00	0.00	0.00	410.00		
4+20	0.00	0.00	0.00	0.00	0.00	0.00	420.00		
4+30	0.00	0.00	0.00	0.00	0.00	0.00	430.00		
4+40	0.00	0.00	0.00	0.00	0.00	0.00	440.00		
4+50	0.00	0.00	0.00	0.00	0.00	0.00	450.00		
4+60	0.00	0.00	0.00	0.00	0.00	0.00	460.00		
4+70	0.00	0.00	0.00	0.00	0.00	0.00	470.00		
4+80	0.00	0.00	0.00	0.00	0.00	0.00	480.00		
4+90	0.00	0.00	0.00	0.00	0.00	0.00	490.00		
5+00	0.00	0.00	0.00	0.00	0.00	0.00	500.00		
5+10	0.00	0.00	0.00	0.00	0.00	0.00	510.00		
5+20	0.00	0.00	0.00	0.00	0.00	0.00	520.00		
5+30	0.00	0.00	0.00	0.00	0.00	0.00	530.00		
5+40	0.00	0.00	0.00	0.00	0.00	0.00	540.00		
5+50	0.00	0.00	0.00	0.00	0.00	0.00	550.00		
5+60	0.00	0.00	0.00	0.00	0.00	0.00	560.00		
5+70	0.00	0.00	0.00	0.00	0.00	0.00	570.00		
5+80	0.00	0.00	0.00	0.00	0.00	0.00	580.00		
5+90	0.00	0.00	0.00	0.00	0.00	0.00	590.00		
6+00	0.00	0.00	0.00	0.00	0.00	0.00	600.00		
6+10	0.00	0.00	0.00	0.00	0.00	0.00	610.00		
6+20	0.00	0.00	0.00	0.00	0.00	0.00	620.00		
6+30	0.00	0.00	0.00	0.00	0.00	0.00	630.00		
6+40	0.00	0.00	0.00	0.00	0.00	0.00	640.00		
6+50	0.00	0.00	0.00	0.00	0.00	0.00	650.00		
6+60	0.00	0.00	0.00	0.00	0.00	0.00	660.00		
6+70	0.00	0.00	0.00	0.00	0.00	0.00	670.00		
6+80	0.00	0.00	0.00	0.00	0.00	0.00	680.00		
6+90	0.00	0.00	0.00	0.00	0.00	0.00	690.00		
7+00	0.00	0.00	0.00	0.00	0.00	0.00	700.00		
7+10	0.00	0.00	0.00	0.00	0.00	0.00	710.00		
7+20	0.00	0.00	0.00	0.00	0.00	0.00	720.00		
7+30	0.00	0.00	0.00	0.00	0.00	0.00	730.00		
7+40	0.00	0.00	0.00	0.00	0.00	0.00	740.00		
7+50	0.00	0.00	0.00	0.00	0.00	0.00	750.00		
7+60	0.00	0.00	0.00	0.00	0.00	0.00	760.00		
7+70	0.00	0.00	0.00	0.00	0.00	0.00	770.00		
7+80	0.00	0.00	0.00	0.00	0.00	0.00	780.00		
7+90	0.00	0.00	0.00	0.00	0.00	0.00	790.00		
8+00	0.00	0.00	0.00	0.00	0.00	0.00	800.00		
8+10	0.00	0.00	0.00	0.00	0.00	0.00	810.00		
8+20	0.00	0.00	0.00	0.00	0.00	0.00	820.00		
8+30	0.00	0.00	0.00	0.00	0.00	0.00	830.00		
8+40	0.00	0.00	0.00	0.00	0.00	0.00	840.00		
8+50	0.00	0.00	0.00	0.00	0.00	0.00	850.00		
8+60	0.00	0.00	0.00	0.00	0.00	0.00	860.00		
8+70	0.00	0.00	0.00	0.00	0.00	0.00	870.00		
8+80	0.00	0.00	0.00	0.00	0.00	0.00	880.00		
8+90	0.00	0.00	0.00	0.00	0.00	0.00	890.00		
9+00	0.00	0.00	0.00	0.00	0.00	0.00	900.00		
9+10	0.00	0.00	0.00	0.00	0.00	0.00	910.00		
9+20	0.00	0.00	0.00	0.00	0.00	0.00	920.00		
9+30	0.00	0.00	0.00	0.00	0.00	0.00	930.00		
9+40	0.00	0.00	0.00	0.00	0.00	0.00	940.00		
9+50	0.00	0.00	0.00	0.00	0.00	0.00	950.00		
9+60	0.00	0.00	0.00	0.00	0.00	0.00	960.00		
9+70	0.00	0.00	0.00	0.00	0.00	0.00	970.00		
9+80	0.00	0.00	0.00	0.00	0.00	0.00	980.00		
9+90	0.00	0.00	0.00	0.00	0.00	0.00	990.00		
10+00	0.00	0.00	0.00	0.00	0.00	0.00	1000.00		

UNITED REPUBLIC OF TANZANIA MINISTRY OF WORKS	BASIC DESIGN STUDY ON DAR ES SALAAM ROAD DEVELOPMENT PROJECT		JAPAN INTERNATIONAL COOPERATION AGENCY	RAILWAY	DATE	SHEET NO.
	PROFILE (1)	V=1:200 H=1:1,000		JANUARY 1997	61	

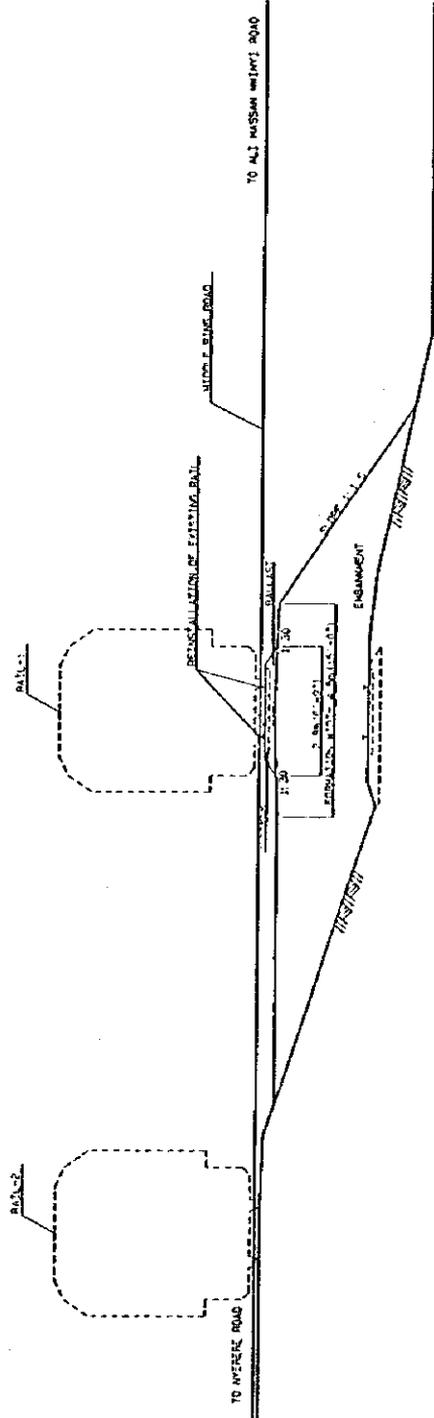
Realignment section of the RAIL-1 (Main Track) L=790m Existing RAIL-1



GRADIENT	0.00 0.00	
EMBANKMENT HEIGHT	0.00	0.00
CUT HEIGHT	0.00	0.00
PROPOSED HEIGHT	80.00	80.00
GROUND HEIGHT	80.00	80.00
CUMULATED HEIGHT	0.00	0.00
DISTANCE	0.00	0.00
STATION NO.	0+00	0+79
CURVE BAND		
SUPER ELEVATION		

UNITED REPUBLIC OF TANZANIA MINISTRY OF WORKS	BASIC DESIGN STUDY ON DAR ES SALAAM ROAD DEVELOPMENT PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	RAILWAY	DATE	SHEET NO.
			PROFILE (2)	V=1:200 H=1:1,000	JANUARY 1997

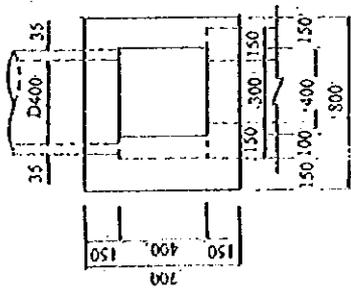
VERTICAL CURVE SECTION OF DARTWAY



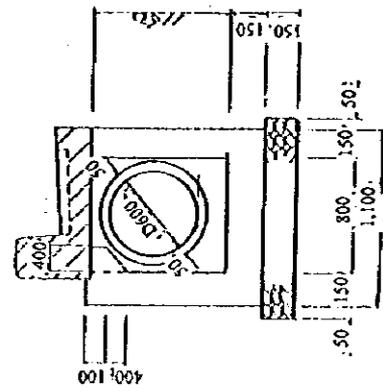
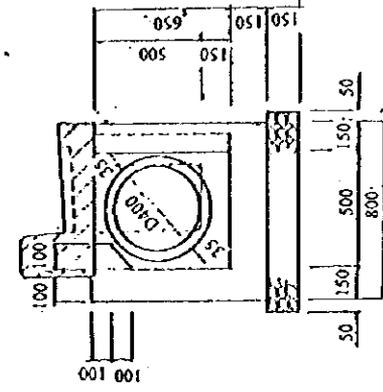
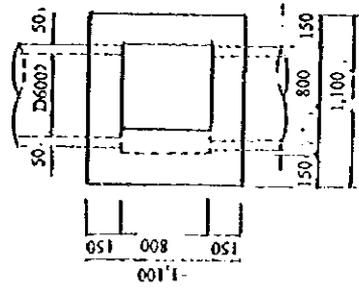
UNITED REPUBLIC OF TANZANIA MINISTRY OF WORKS	BASIC DESIGN STUDY ON DAR ES SALAAM ROAD DEVELOPMENT PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY		RAILWAY	DATE	SHEET NO.
		TYPICAL CROSS SECTION		8-1:200	JANUARY 1997	63



CATCH PIT TYPE-A(500 X 400 X 650)

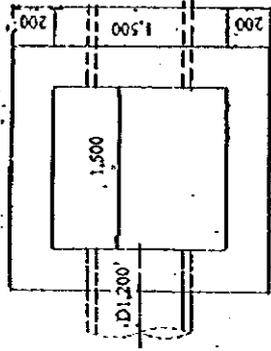


CATCH PIT TYPE-B(800 X 800 X 1000)

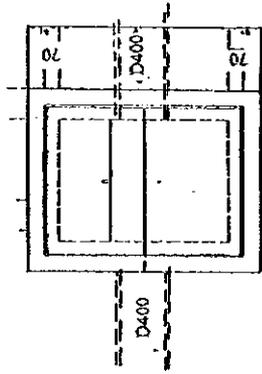


UNITED REPUBLIC OF TANZANIA MINISTRY OF WORKS	BASIC DESIGN STUDY ON DAR ES SALAAM ROAD DEVELOPMENT PROJECT		JAPAN INTERNATIONAL COOPERATION AGENCY	Drainage Works	DATE JANUARY 1997	SHEET NO. 65

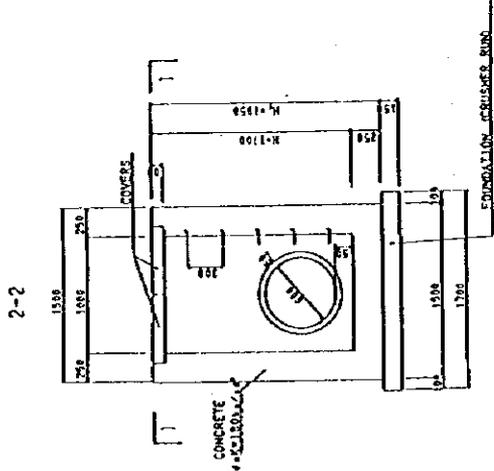
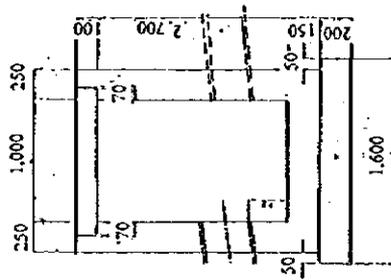
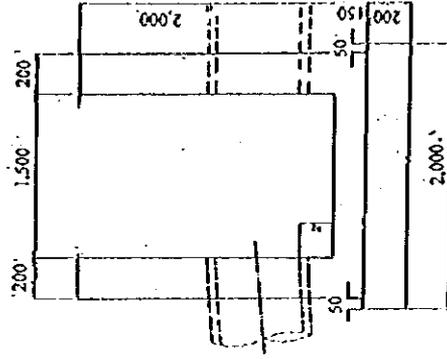
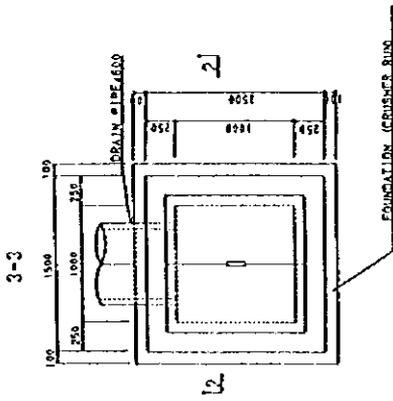
MANHOLE TYPE-C(1500 X 1500 X 2000)



MANHOLE TYPE-B(1000 X 1000 X 2700)

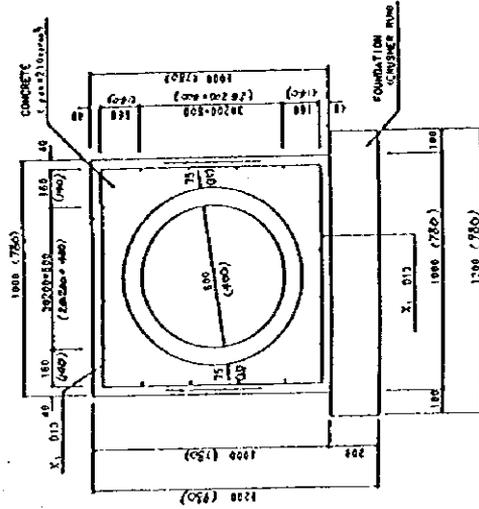


MANHOLE TYPE-A(1000 X 1000 X 700)

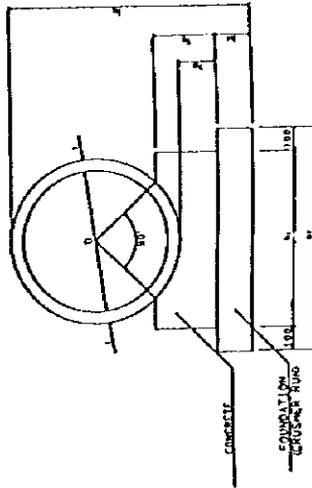


UNITED REPUBLIC OF TANZANIA MINISTRY OF WORKS	BASIC DESIGN STUDY ON DAR ES SALAAM ROAD DEVELOPMENT PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	DATE	SHEET NO.
			Drainage Works	JANUARY 1997

PIPE CULVERT(360 deg)D400,D600



PIPE CULVERT(90 deg) D400,D600,D1,000,D1,200



Type	D	t	b1	b2	h1	h2	h3	h4
D400	400	35	550	750	770	220	150	150
D600	600	50	750	950	1,000	260	150	150
D1,000	1,000	82	1,200	1,400	1,564	380	200	200
D1,200	1,200	95	1,400	1,600	1,840	460	250	200

UNITED REPUBLIC OF TANZANIA MINISTRY OF WORKS	BASIC DESIGN STUDY ON DAR ES SALAAM ROAD DEVELOPMENT PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	Drainage Works	DATE	SHEET NO.
				JANUARY 1997	67

Lighting Facilities and Traffic Signal

LIGHTING FACILITIES

TYPE-T

S=1:40

TYPE-L

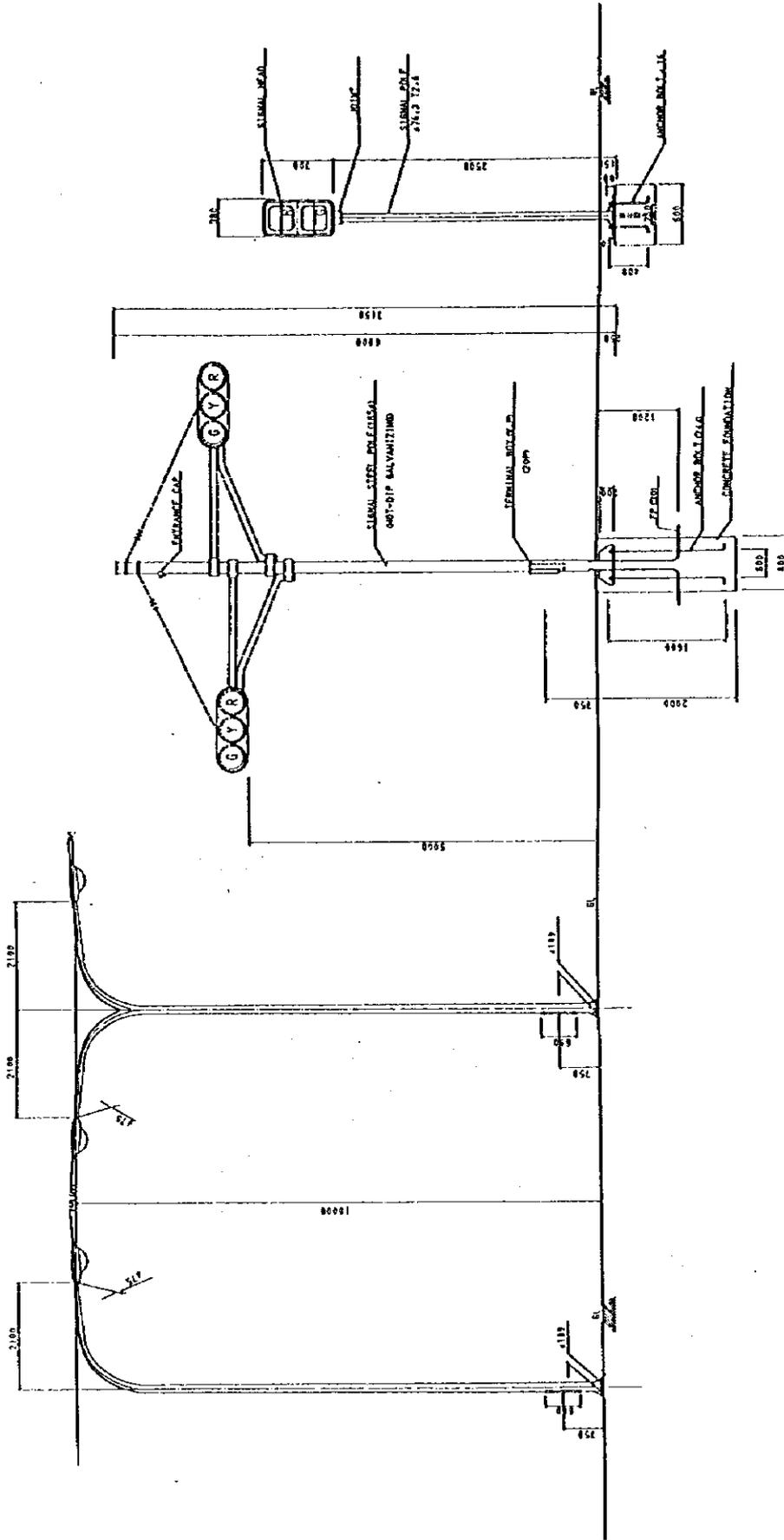
TRAFFIC SIGNAL

SIGNAL STEEL POLE

S=1:30

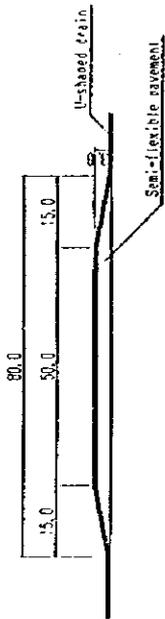
PEDESTRIAN SIGNAL

S=1:20

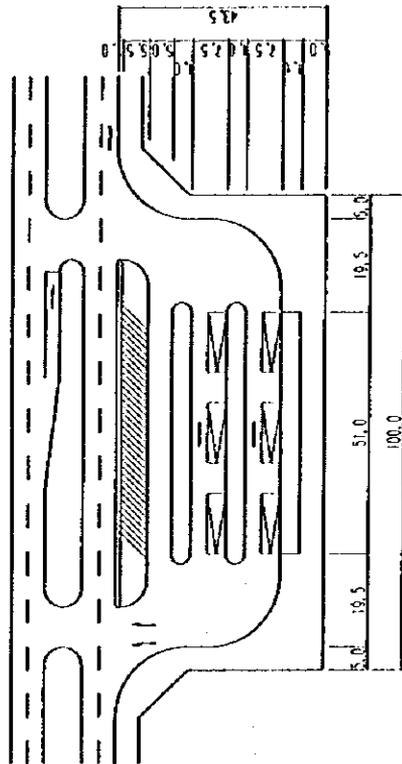


UNITED REPUBLIC OF TANZANIA MINISTRY OF WORKS	BASIC DESIGN STUDY ON DAR ES SALAAMI ROAD DEVELOPMENT PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	Road Lighting and Traffic Signal Plan	DATE	SHEET NO.
				JANUARY 1997	68

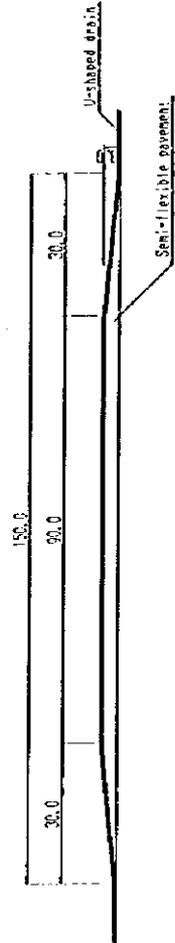
BUS STOP s=1:1000



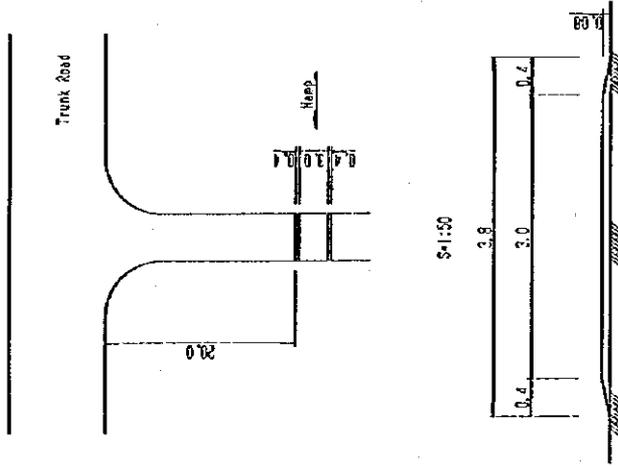
BUS STATION Type-A s=1:1000



BUS STATION Type-B s=1:1000



HAMP s=1:500



UNITED REPUBLIC OF TANZANIA  
MINISTRY OF WORKS

BASIC DESIGN STUDY  
ON  
DAR ES SALAAM ROAD DEVELOPMENT PROJECT

JAPAN INTERNATIONAL  
COOPERATION AGENCY

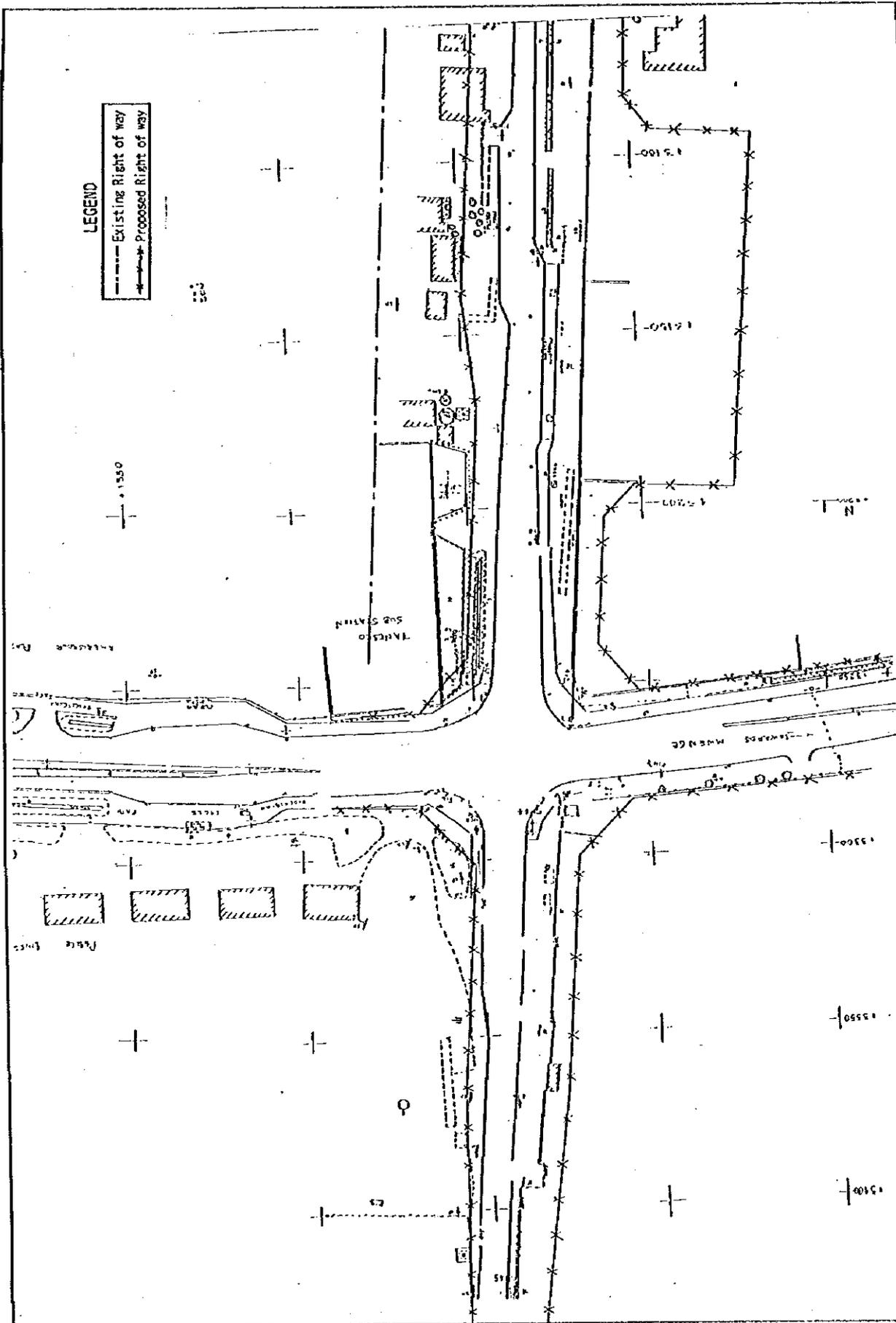
Bus Station and Bus Stop Plan

DATE

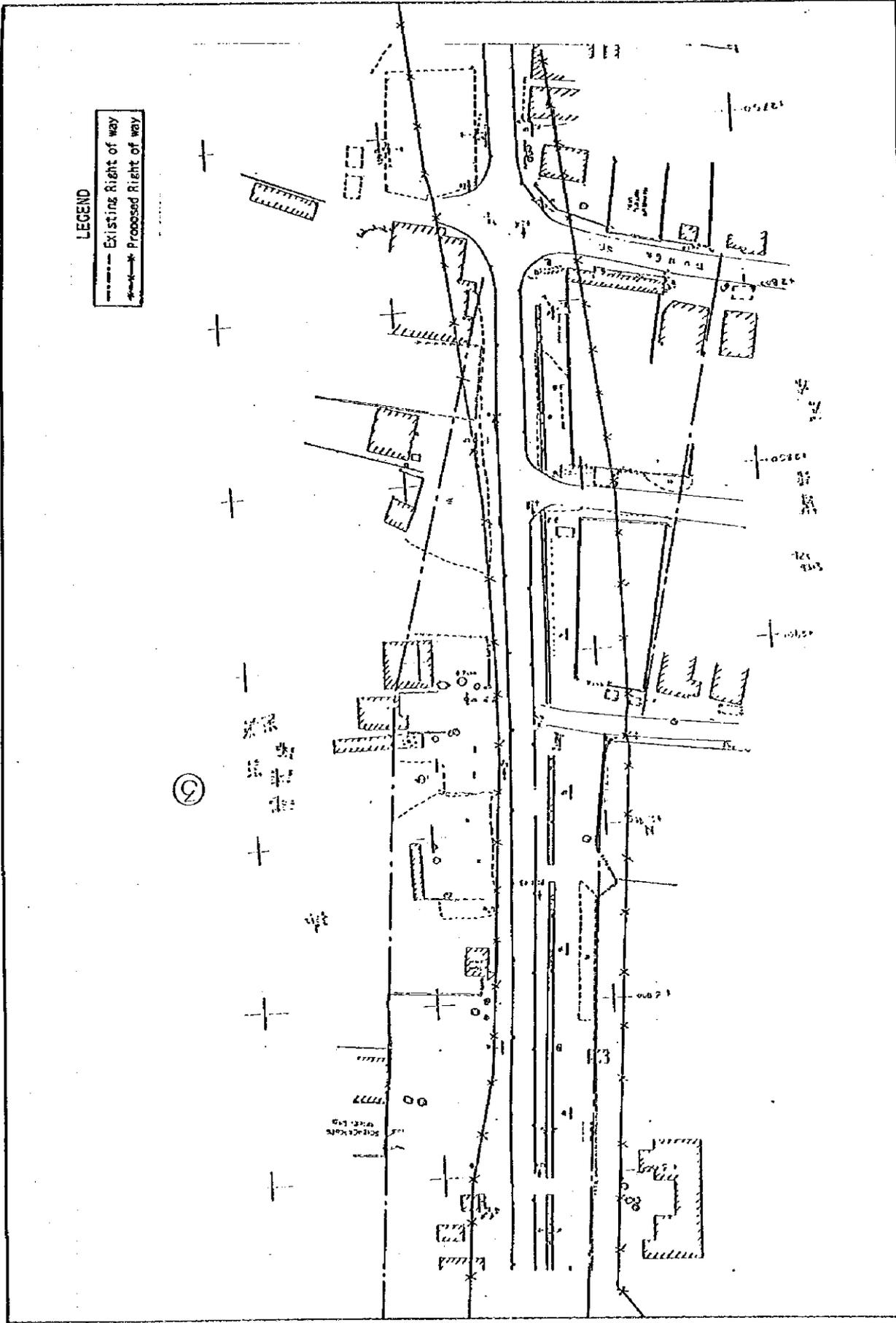
JANUARY 1997

SHEET NO.

69



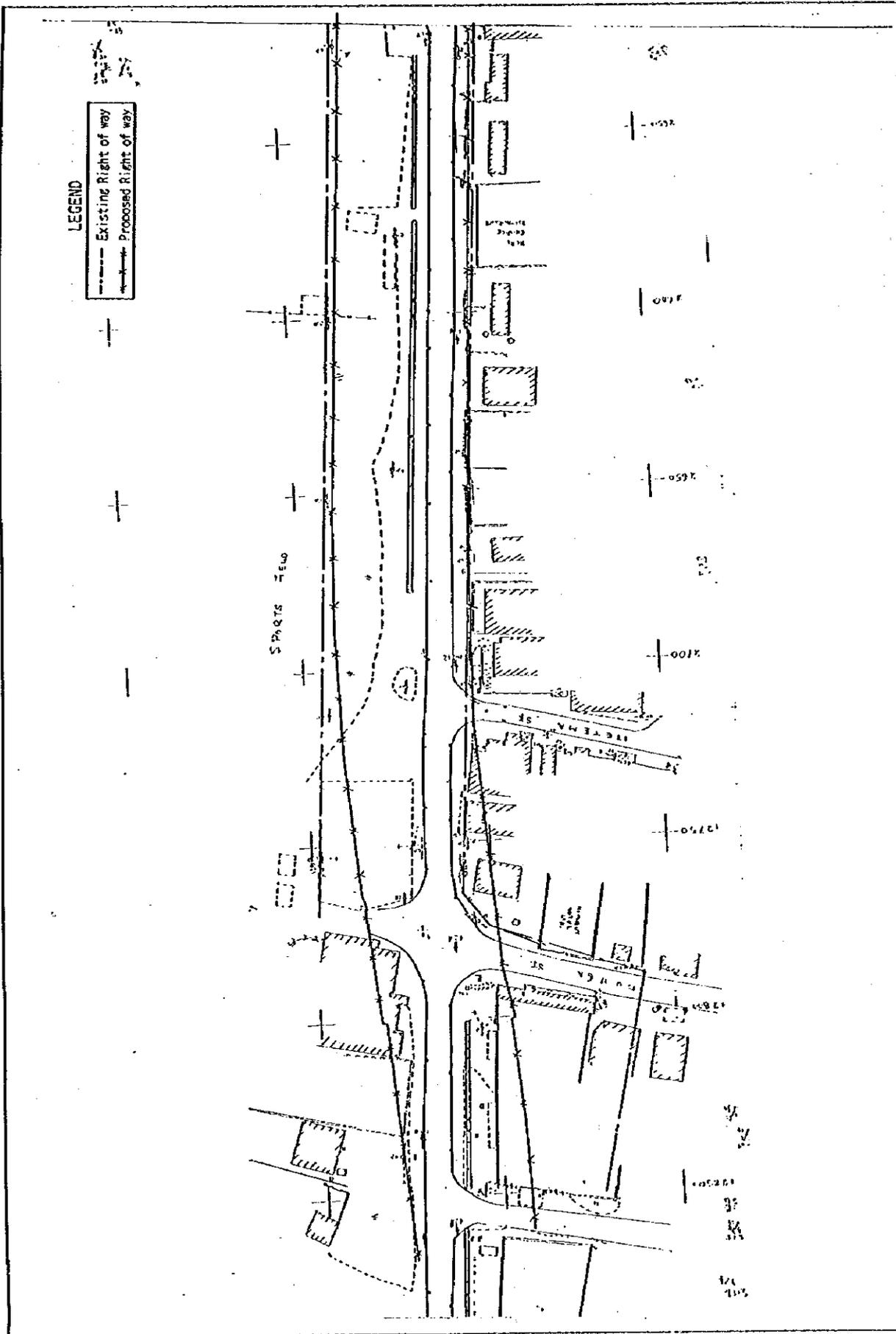
UNITED REPUBLIC OF TANZANIA MINISTRY OF WORKS	BASIC DESIGN STUDY ON DAR ES SALAAM ROAD DEVELOPMENT PROJECT		JAPAN INTERNATIONAL COOPERATION AGENCY	MIDDLE RING ROAD	DATE	SHEET NO.
				Site Plan(1) S=1:1,000	JANUARY 1997	70



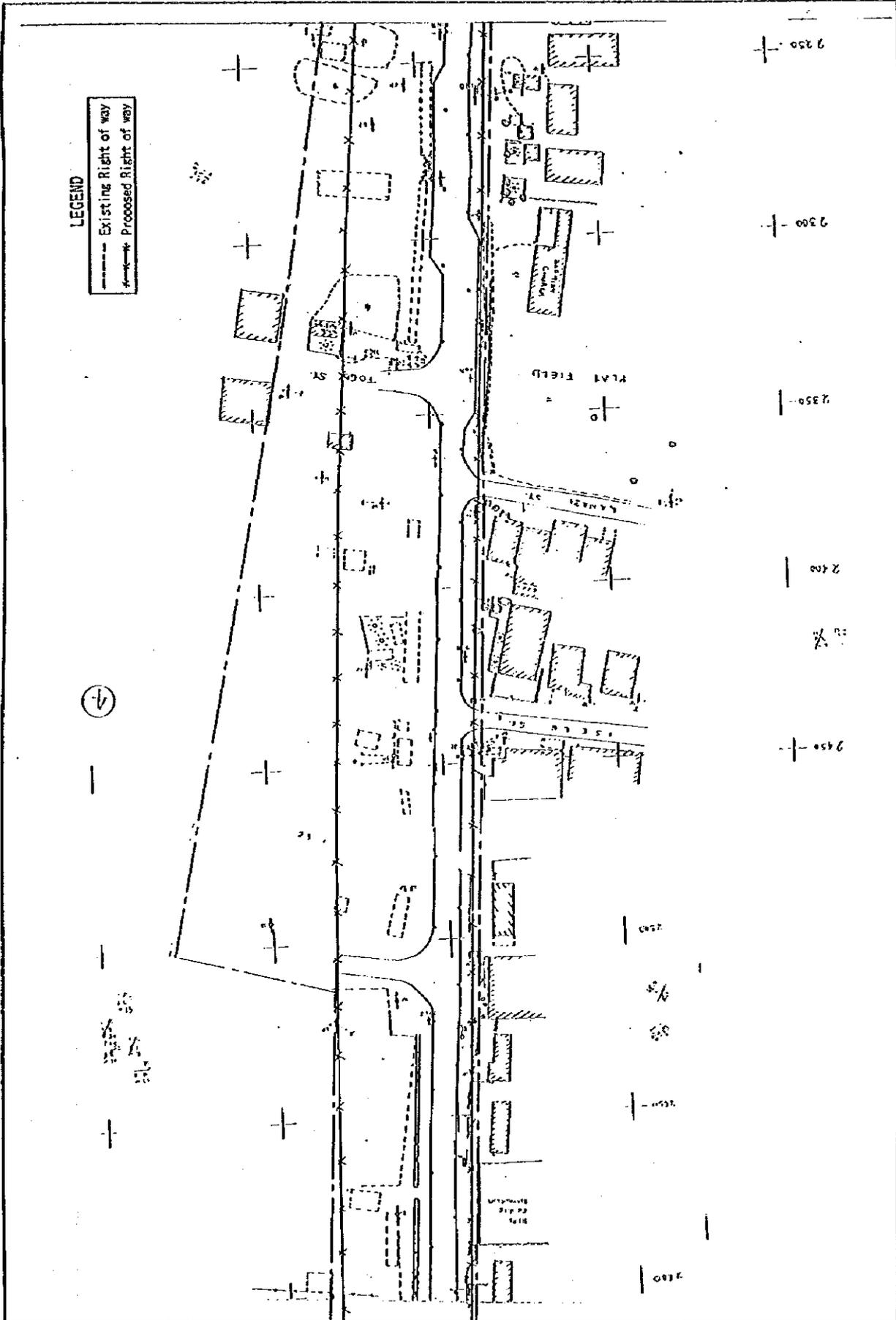
**LEGEND**  
 - - - Existing Right of way  
 \* \* \* Proposed Right of way

9

UNITED REPUBLIC OF TANZANIA MINISTRY OF WORKS	BASIC DESIGN STUDY ON DAR ES SALAAM ROAD DEVELOPMENT PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	MIDDLE RING ROAD	DATE	SHEET NO.
			Site Plan(2) S=1:1,000	JANUARY 1997	71

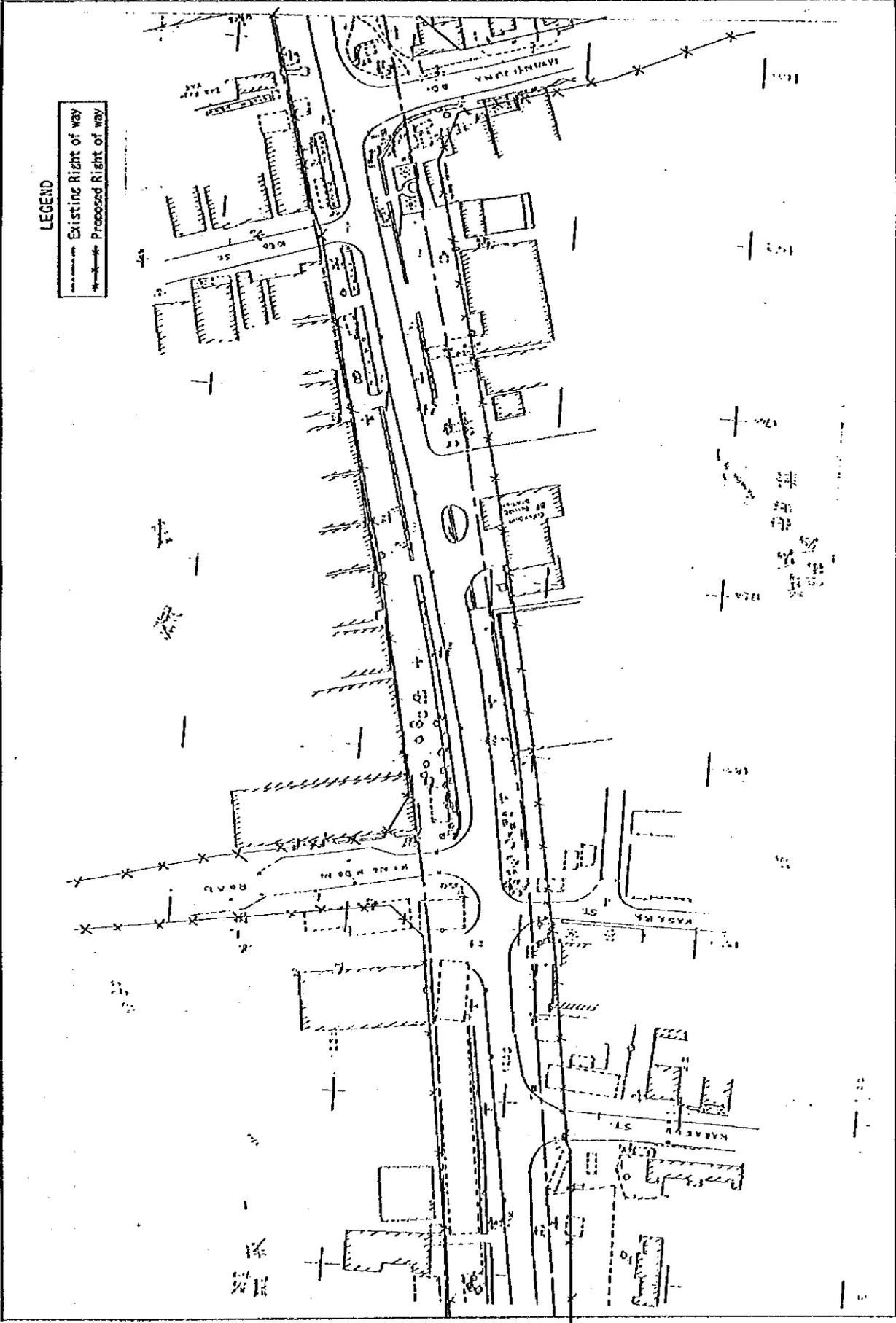


UNITED REPUBLIC OF TANZANIA MINISTRY OF WORKS	BASIC DESIGN STUDY ON DAR ES SALAAM ROAD DEVELOPMENT PROJECT		JAPAN INTERNATIONAL COOPERATION AGENCY	MIDDLE RING ROAD Site Plan(3) Scale: 1:1,000	DATE JANUARY 1997	SHEET NO. 72
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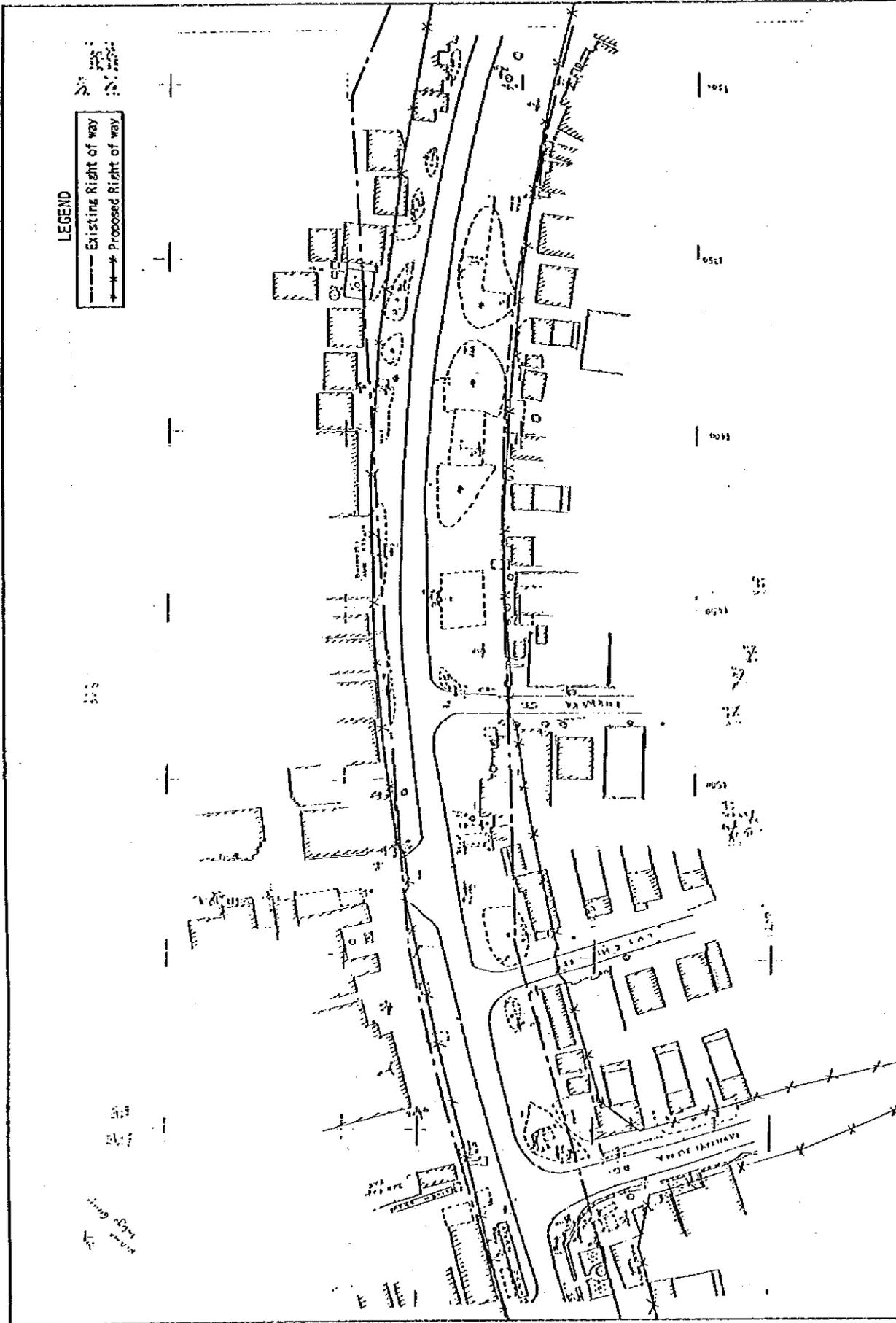
UNITED REPUBLIC OF TANZANIA MINISTRY OF WORKS	BASIC DESIGN STUDY ON DAR ES SALAAM ROAD DEVELOPMENT PROJECT		JAPAN INTERNATIONAL COOPERATION AGENCY	MIDDLE RING ROAD Site Plan(4) S=1:1,000	DATE JANUARY 1997	SHEET NO. 73
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**LEGEND**  
 — Existing Right of way  
 - - - Proposed Right of way

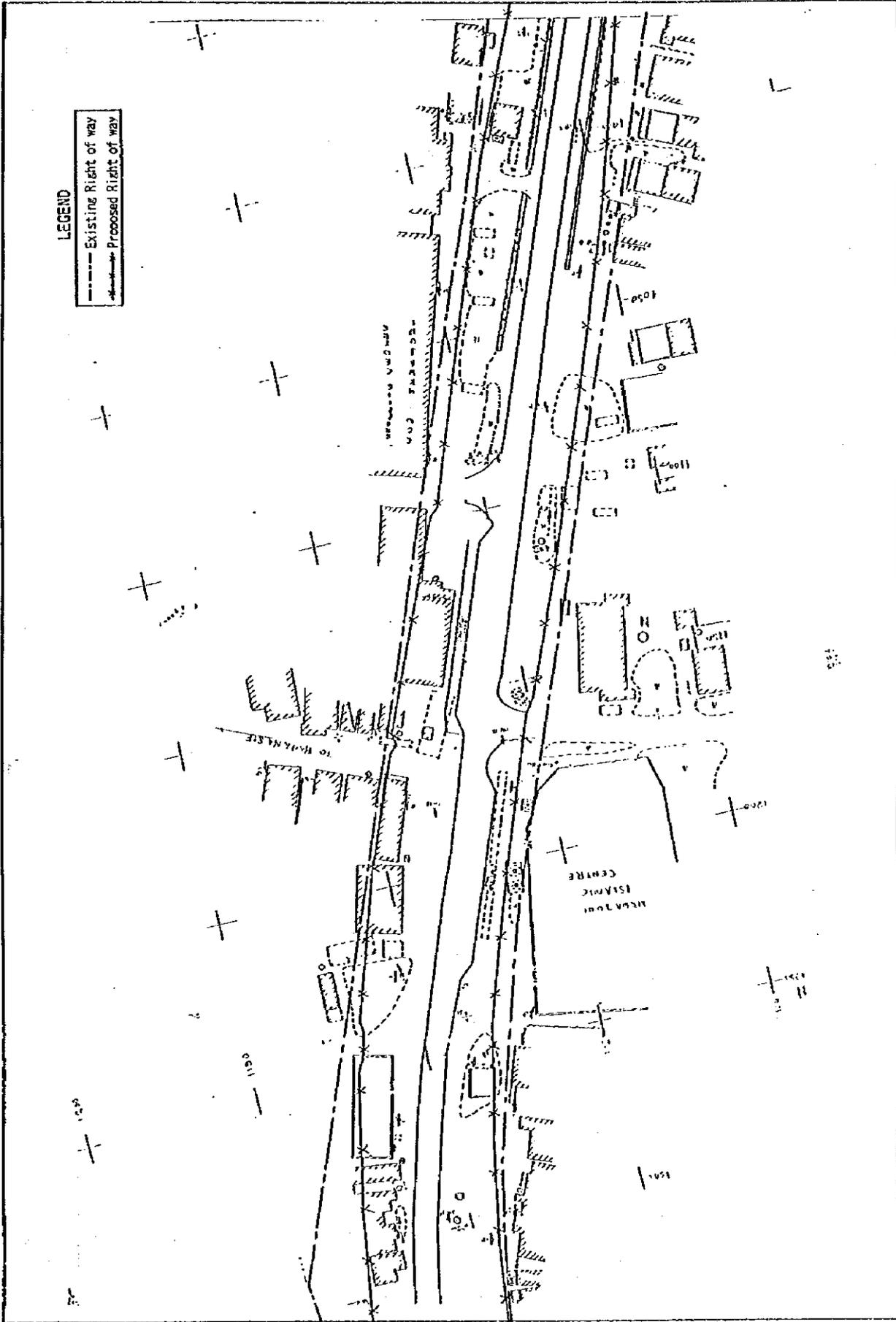
UNITED REPUBLIC OF TANZANIA MINISTRY OF WORKS	BASIC DESIGN STUDY ON DAR ES SALAAM ROAD DEVELOPMENT PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	MIDDLE RING ROAD	DATE	SHEET NO.
			Site Plan(6) S=1:1,000	JANUARY 1997	75



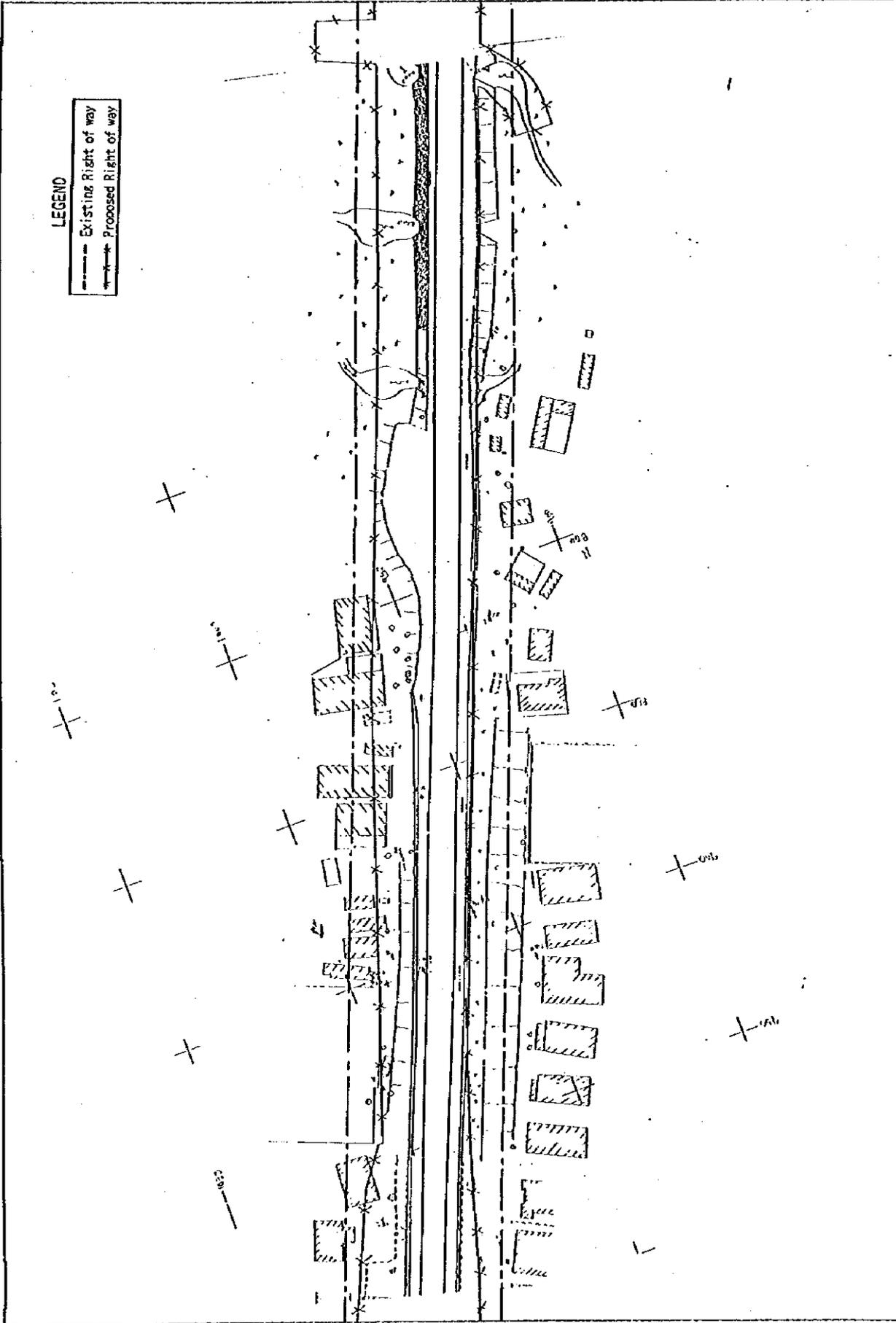
LEGEND

- Existing Right of way
- Proposed Right of way

UNITED REPUBLIC OF TANZANIA MINISTRY OF WORKS	BASIC DESIGN STUDY ON DAR ES SALAAM ROAD DEVELOPMENT PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	MIDDLE RING ROAD	DATE	SHEET NO.
			Site Plan(7) S=1:1,000	JANUARY 1997	76



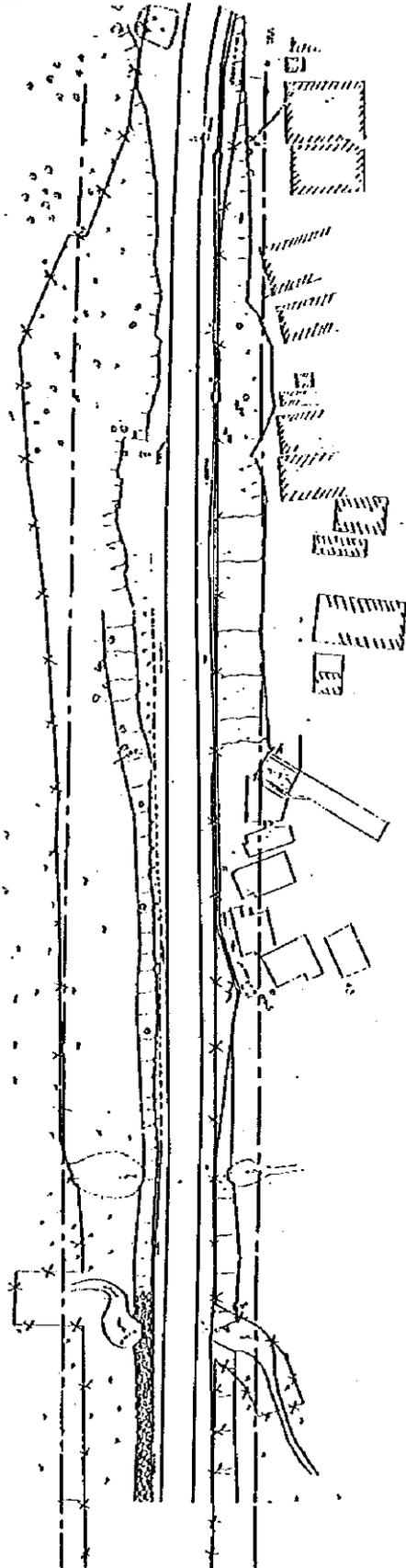
UNITED REPUBLIC OF TANZANIA MINISTRY OF WORKS	BASIC DESIGN STUDY ON DAR ES SALAAM ROAD DEVELOPMENT PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	MIDDLE RING ROAD	DATE	SHEET NO.
			Site Plan(8) S=1:1,000	JANUARY 1997	77



UNITED REPUBLIC OF TANZANIA MINISTRY OF WORKS	BASIC DESIGN STUDY ON DAR ES SALAAM ROAD DEVELOPMENT PROJECT		JAPAN INTERNATIONAL COOPERATION AGENCY	MIDDLE RING ROAD Site Plan(9) S=1:1,000	DATE JANUARY 1997	SHEET NO. 78
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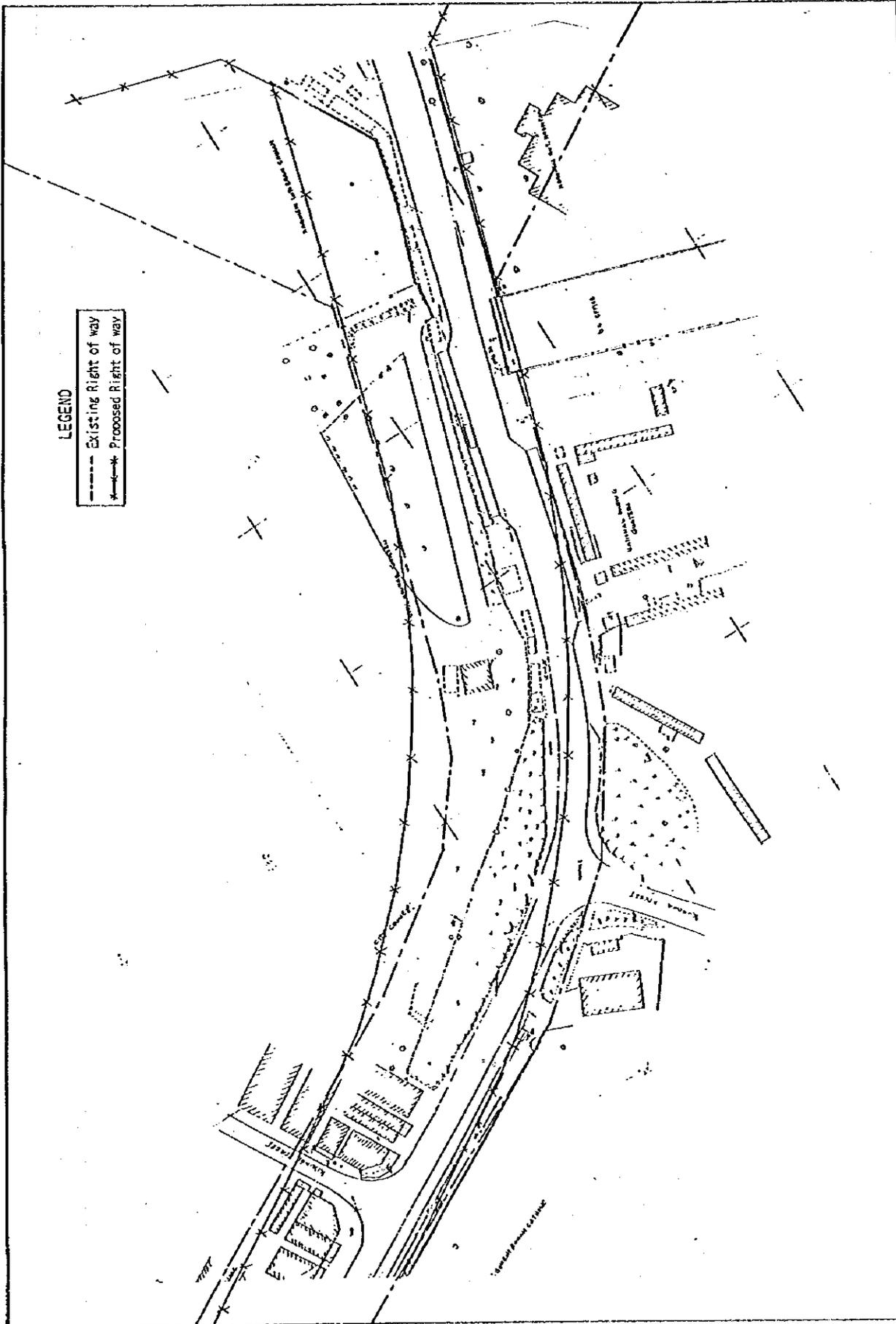
LEGEND

- - - Existing Right of way
- \* - Proposed Right of way

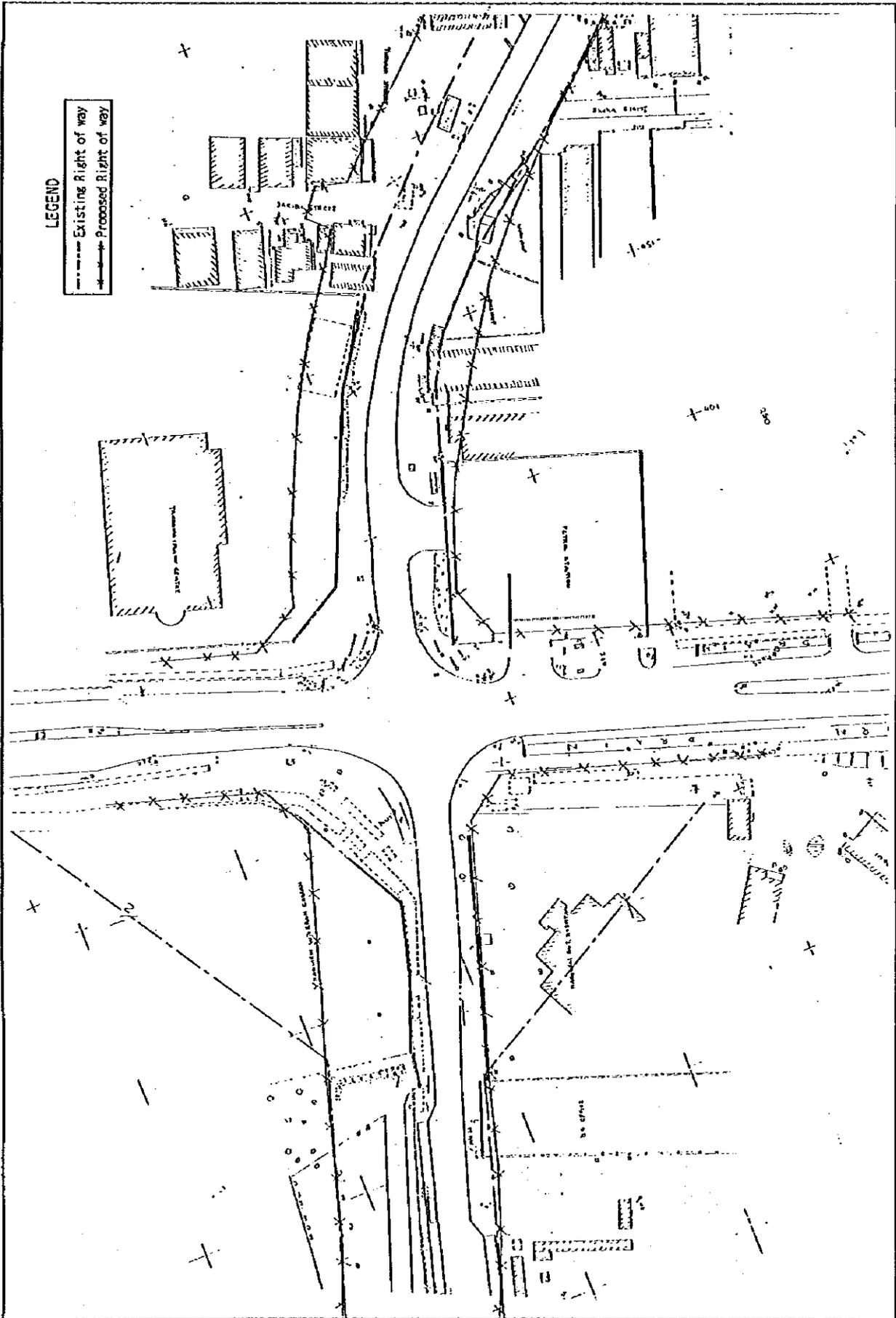


UNITED REPUBLIC OF TANZANIA MINISTRY OF WORKS	BASIC DESIGN STUDY ON DAR ES SALAAM ROAD DEVELOPMENT PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	MIDDLE RING ROAD	DATE	SHEET NO.
			Site Plan(10) S-1:1,000	JANUARY 1997	79



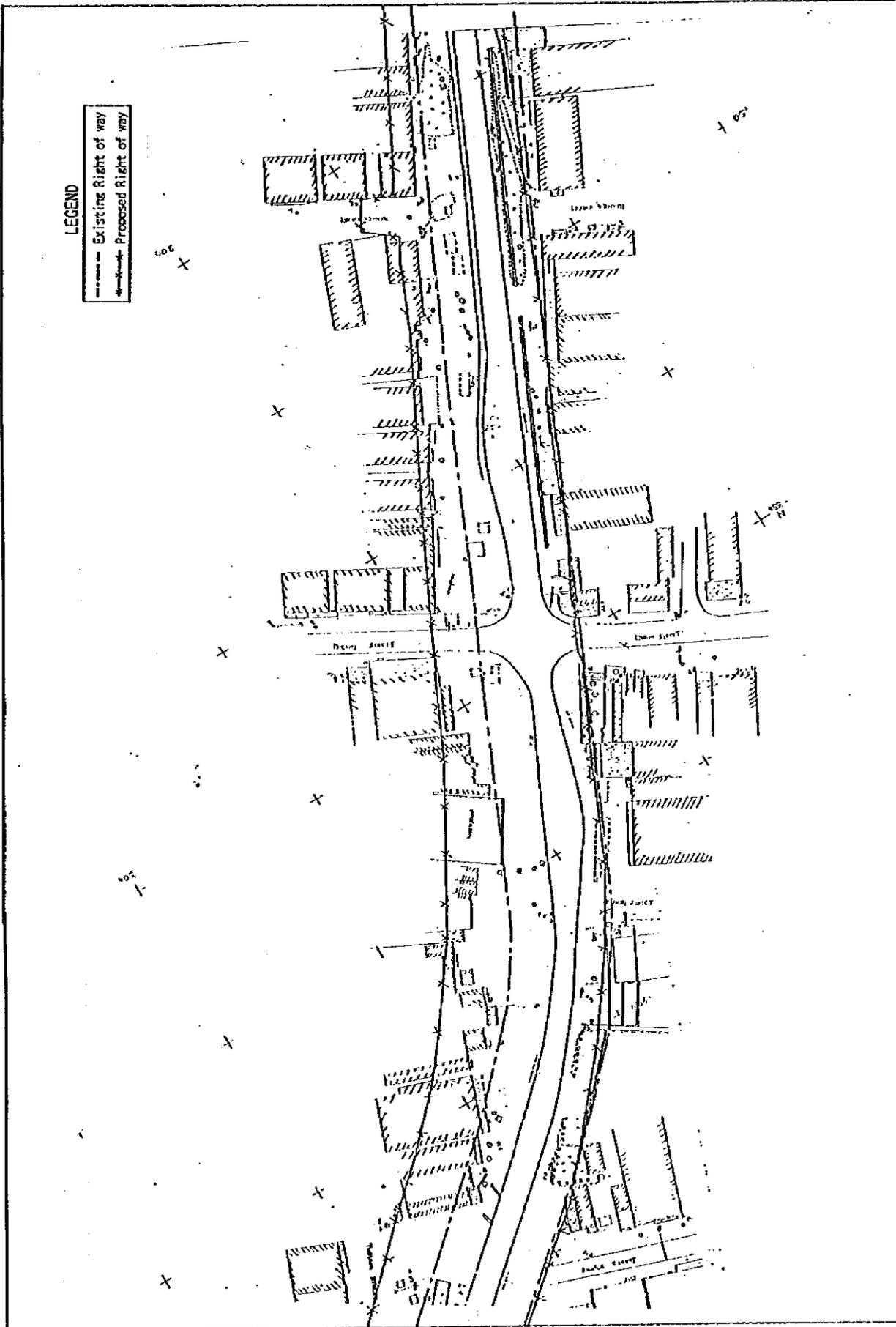


UNITED REPUBLIC OF TANZANIA MINISTRY OF WORKS	BASIC DESIGN STUDY ON DAR ES SALAAM ROAD DEVELOPMENT PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	MIDDLE RING ROAD	DATE	SHEET NO.
			Site Plan(12) S=1:1,000	JANUARY 1997	81

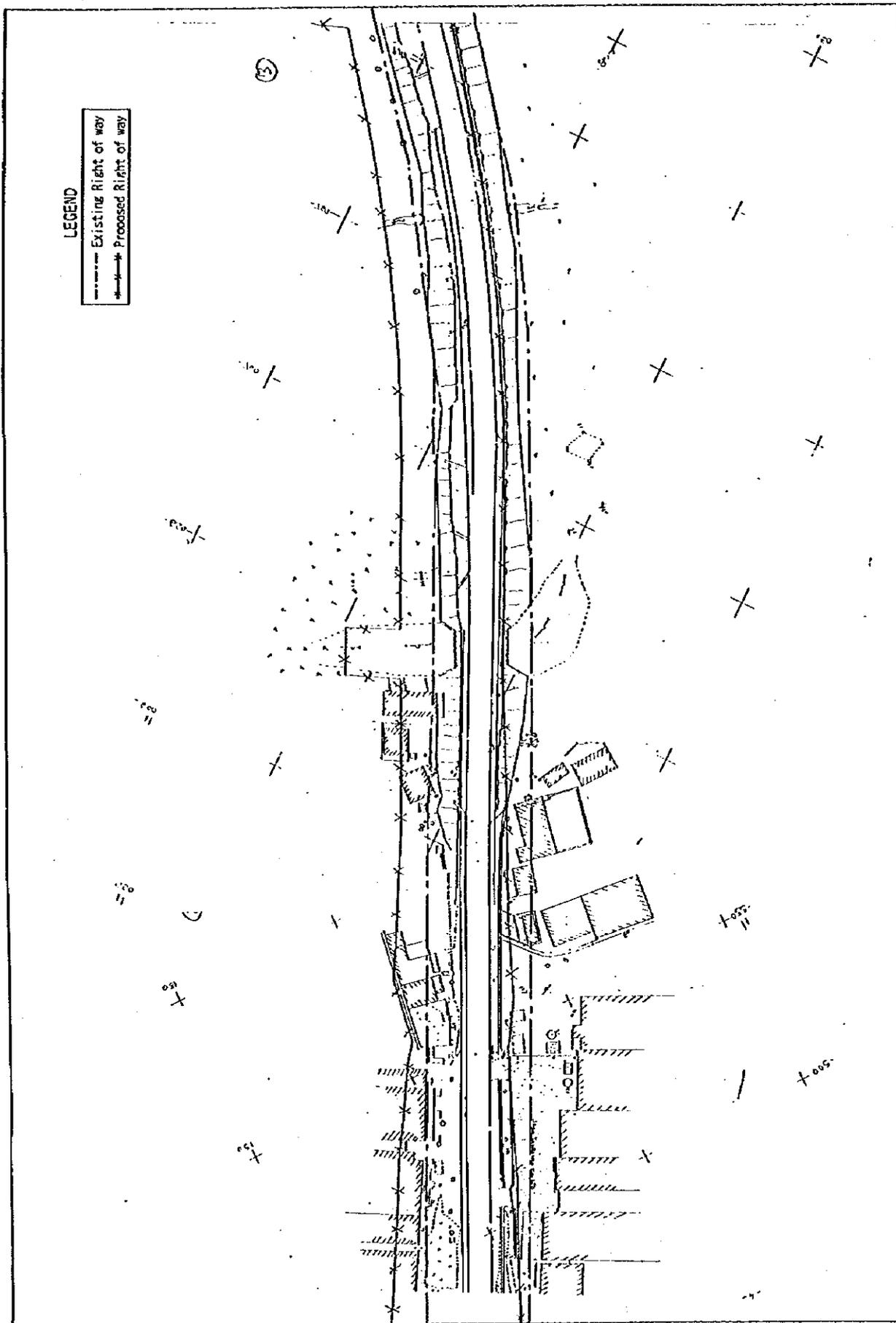


**LEGEND**  
 - - - - - Existing Right of way  
 - - - - - Proposed Right of way

UNITED REPUBLIC OF TANZANIA MINISTRY OF WORKS	BASIC DESIGN STUDY ON DAR ES SALAAM ROAD DEVELOPMENT PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	MIDDLE RING ROAD	DATE	SHEET NO.
			Site Plan(13) S=1:1,000	JANUARY 1997	82



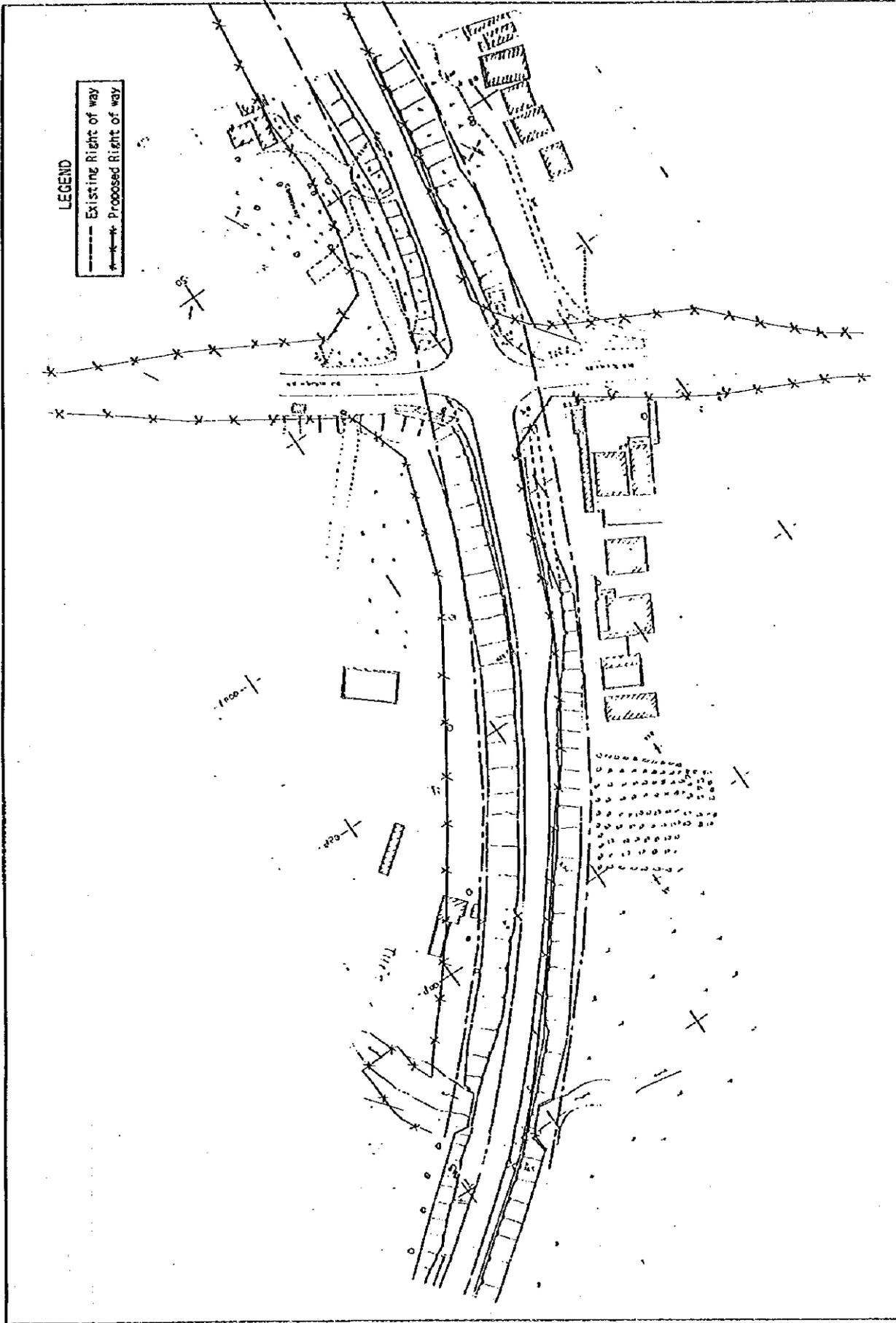
UNITED REPUBLIC OF TANZANIA MINISTRY OF WORKS	BASIC DESIGN STUDY ON DAR ES SALAAM ROAD DEVELOPMENT PROJECT		JAPAN INTERNATIONAL COOPERATION AGENCY	MIDDLE RING ROAD Site Plan(14) S=1:1,000	DATE JANUARY 1997	SHEET NO. 83
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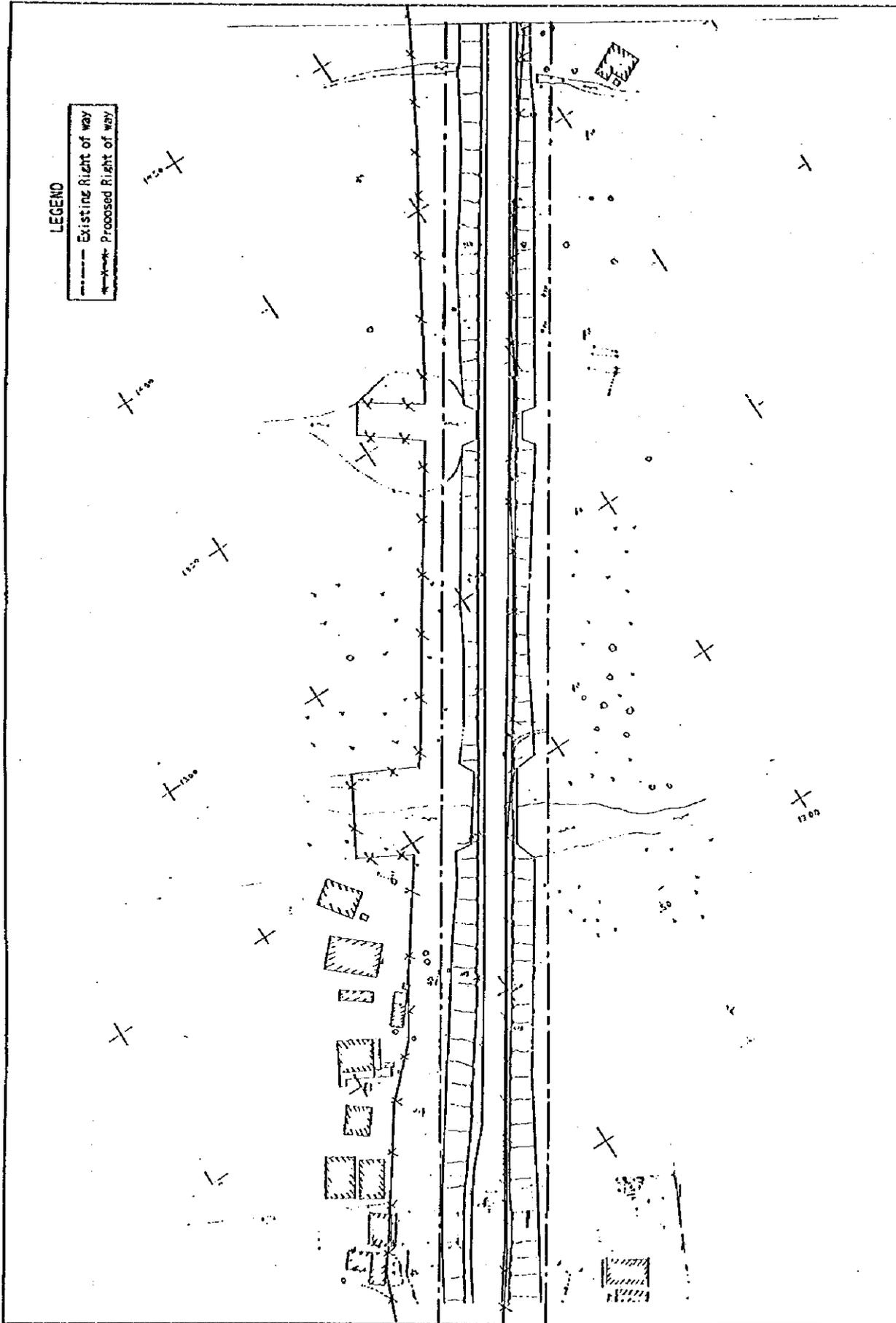
**LEGEND**

- Existing Right of way
- \*-\*- Proposed Right of way

UNITED REPUBLIC OF TANZANIA MINISTRY OF WORKS	BASIC DESIGN STUDY ON DAR ES SALAAM ROAD DEVELOPMENT PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY		MIDDLE RING ROAD	DATE	SHEET NO.
				Site Plan(15) S=1:1,000	JANUARY 1997	84



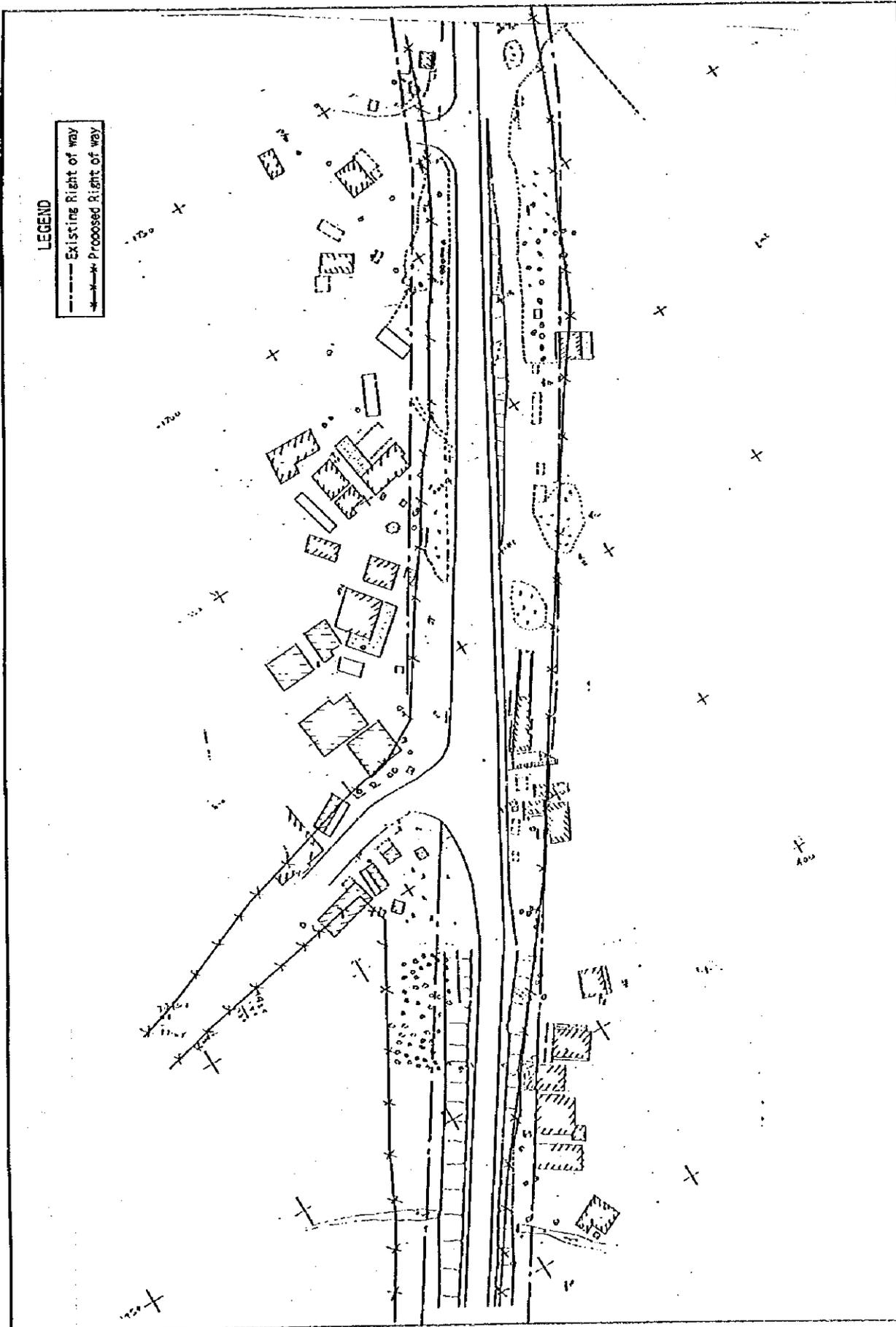
UNITED REPUBLIC OF TANZANIA MINISTRY OF WORKS	BASIC DESIGN STUDY ON DAR ES SALAAM ROAD DEVELOPMENT PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	MIDDLE RING ROAD	DATE	SHEET NO.
			Site Plan(16) S=1:1,000	JANUARY 1997	85



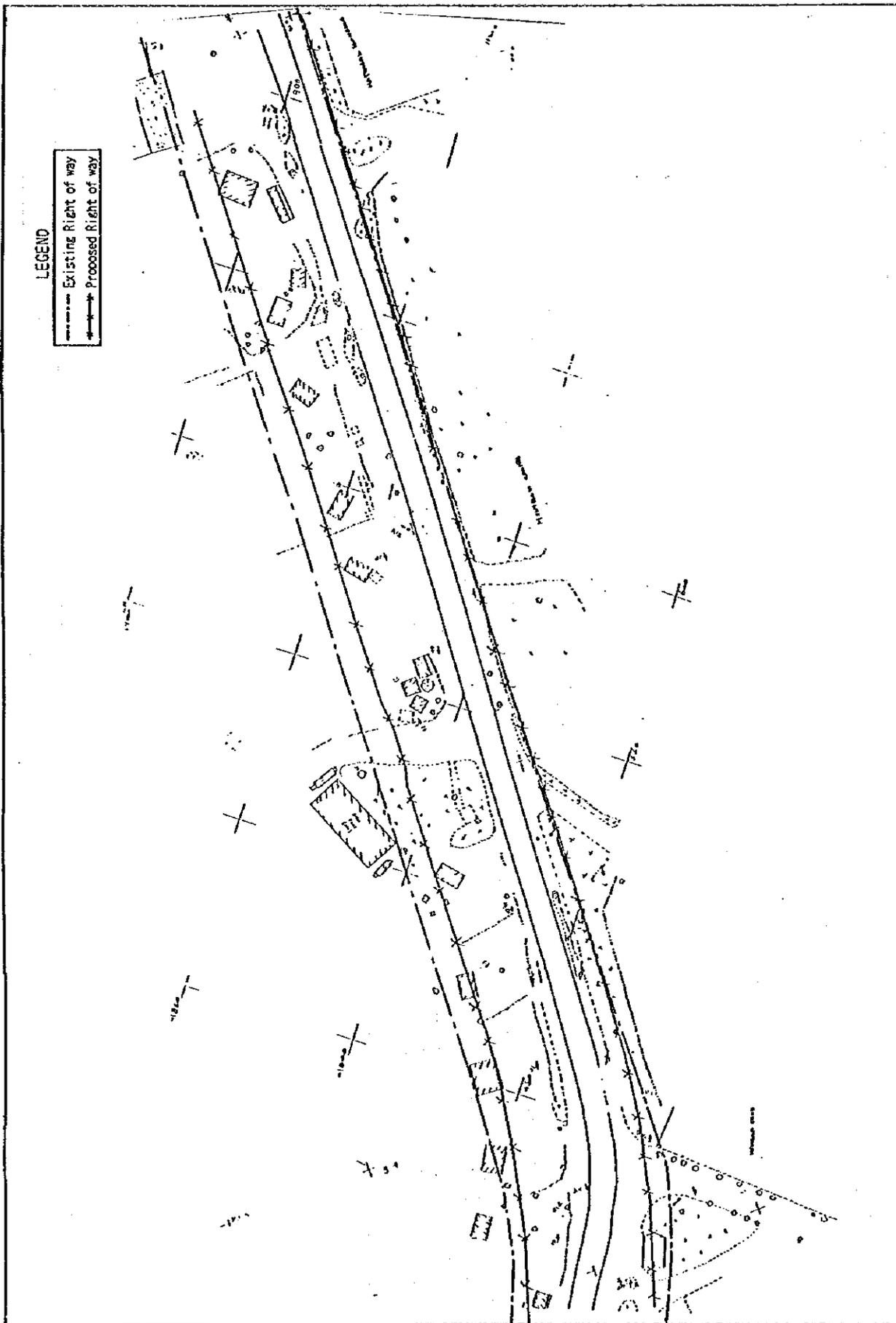
**LEGEND**

- Existing Right of way
- - - - Proposed Right of way

UNITED REPUBLIC OF TANZANIA MINISTRY OF WORKS	BASIC DESIGN STUDY ON DAR ES SALAAM ROAD DEVELOPMENT PROJECT		JAPAN INTERNATIONAL COOPERATION AGENCY	MIDDLE RING ROAD Site Plan(17) S-1:1,000	DATE JANUARY 1997	SHEET NO. 86
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UNITED REPUBLIC OF TANZANIA MINISTRY OF WORKS	BASIC DESIGN STUDY ON DAR ES SALAAM ROAD DEVELOPMENT PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	MIDDLE RING ROAD	DATE	SHEET NO.
			Site Plan(13) S=1:1,000	JANUARY 1997	87

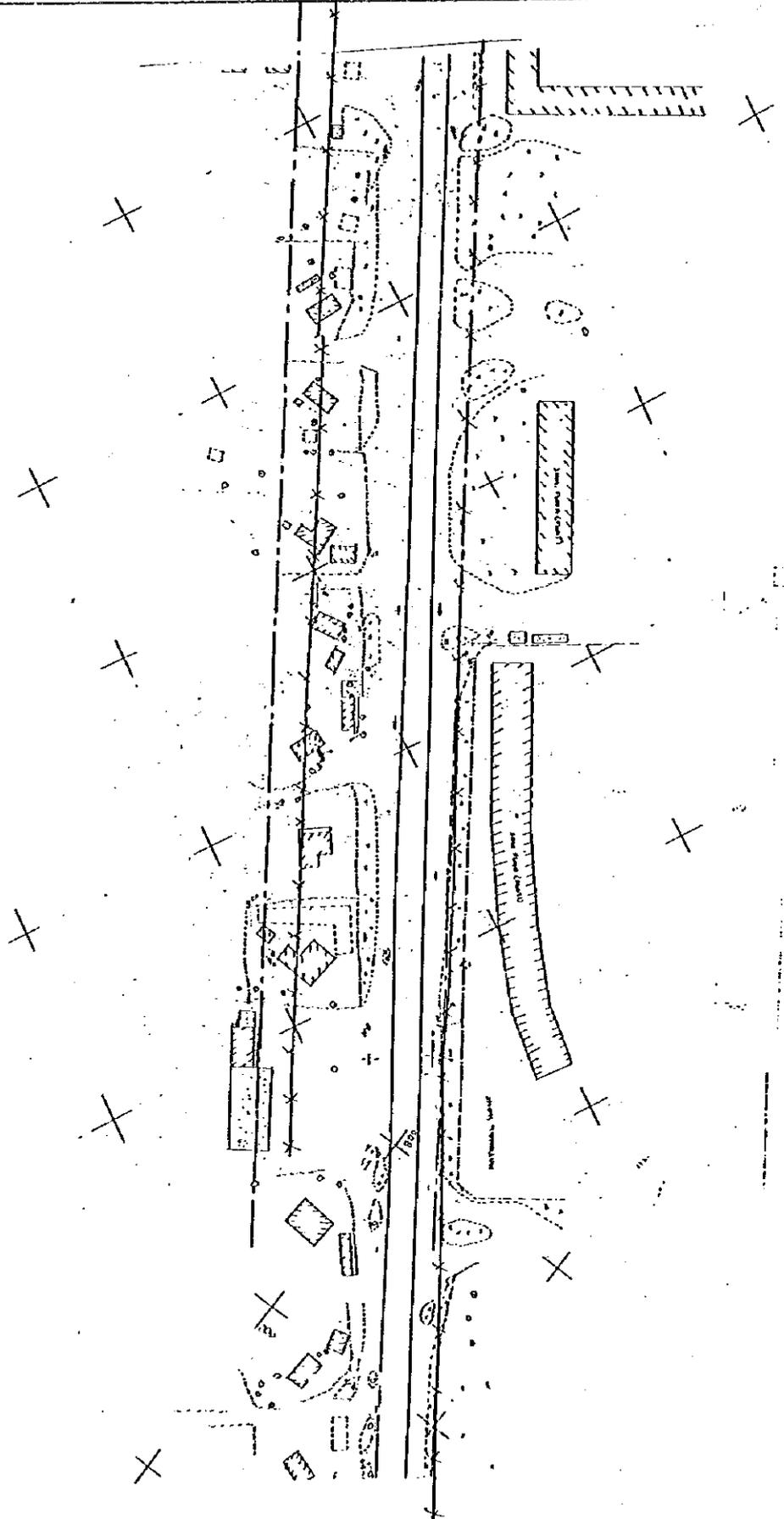


**LEGEND**  
 Existing Right of way  
 Proposed Right of way

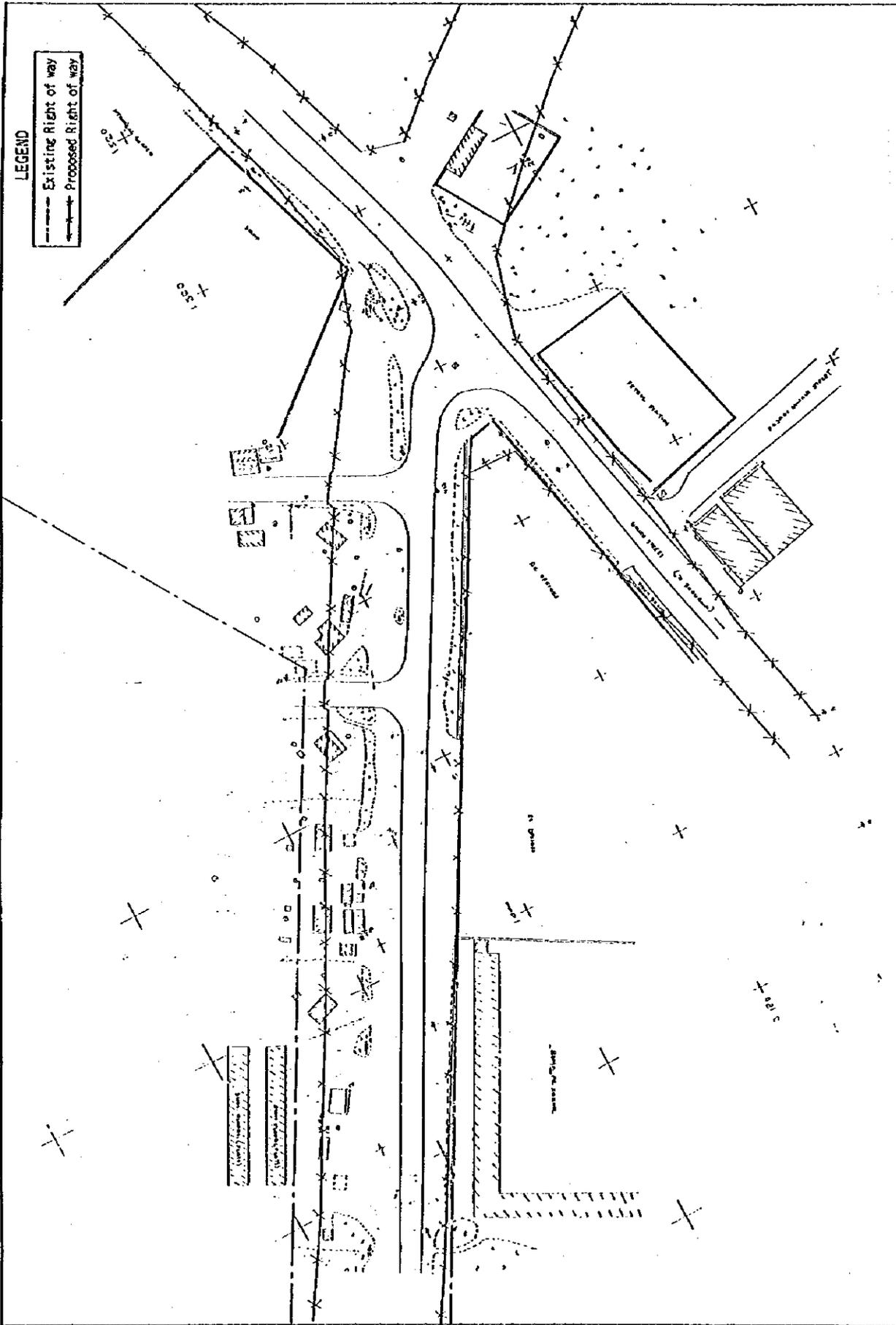
UNITED REPUBLIC OF TANZANIA MINISTRY OF WORKS	BASIC DESIGN STUDY ON DAR ES SALAAM ROAD DEVELOPMENT PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	MIDDLE RING ROAD	DATE	SHEET NO.
			Site Plan(1/2) S=1:1,000	JANUARY 1997	88

LEGEND

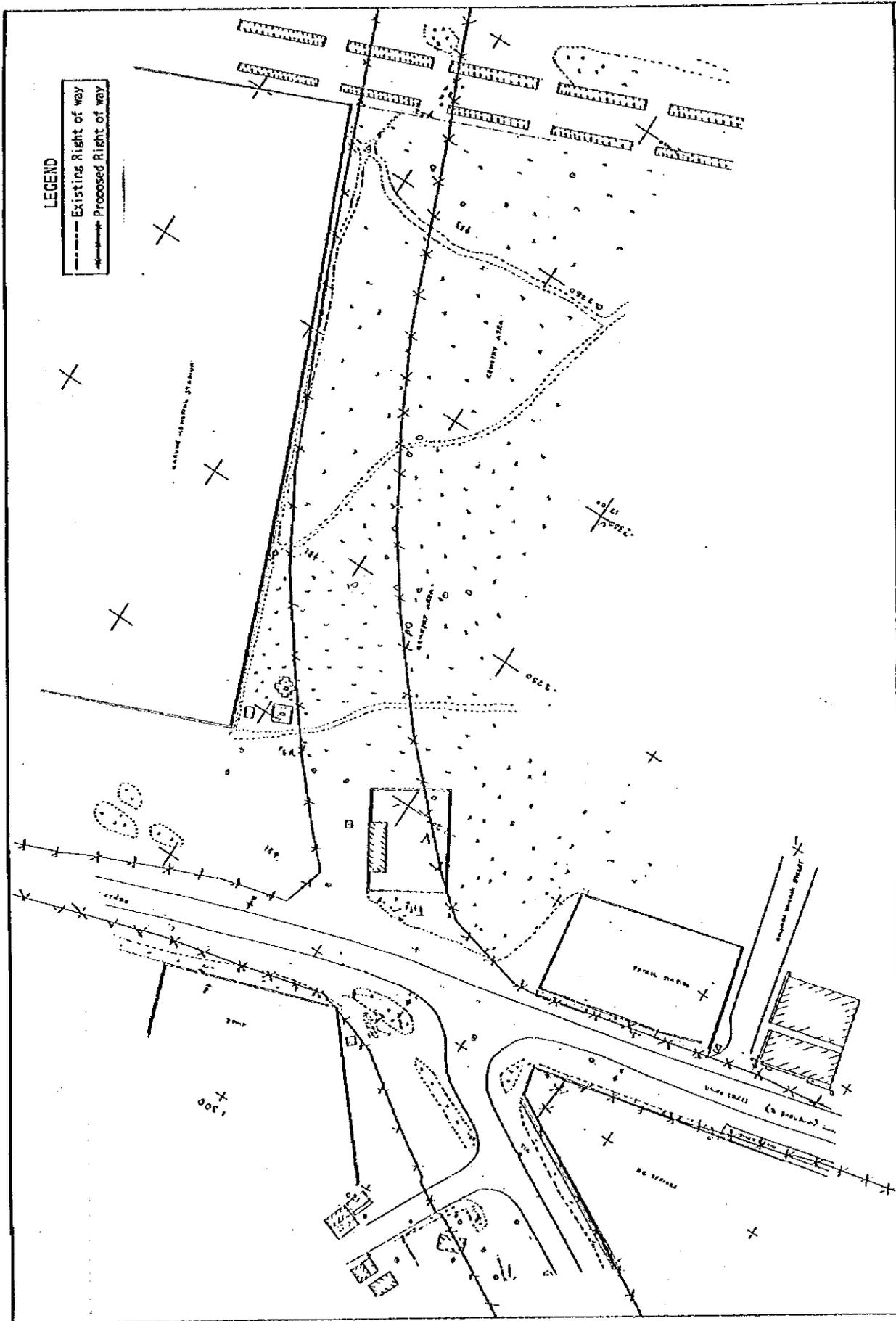
Existing Right of way  
Proposed Right of way



UNITED REPUBLIC OF TANZANIA MINISTRY OF WORKS	BASIC DESIGN STUDY ON DAR ES SALAAM ROAD DEVELOPMENT PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	MIDDLE RING ROAD	DATE	SHEET NO.
			Site Plan(20) S=1:1,000	JANUARY 1997	89

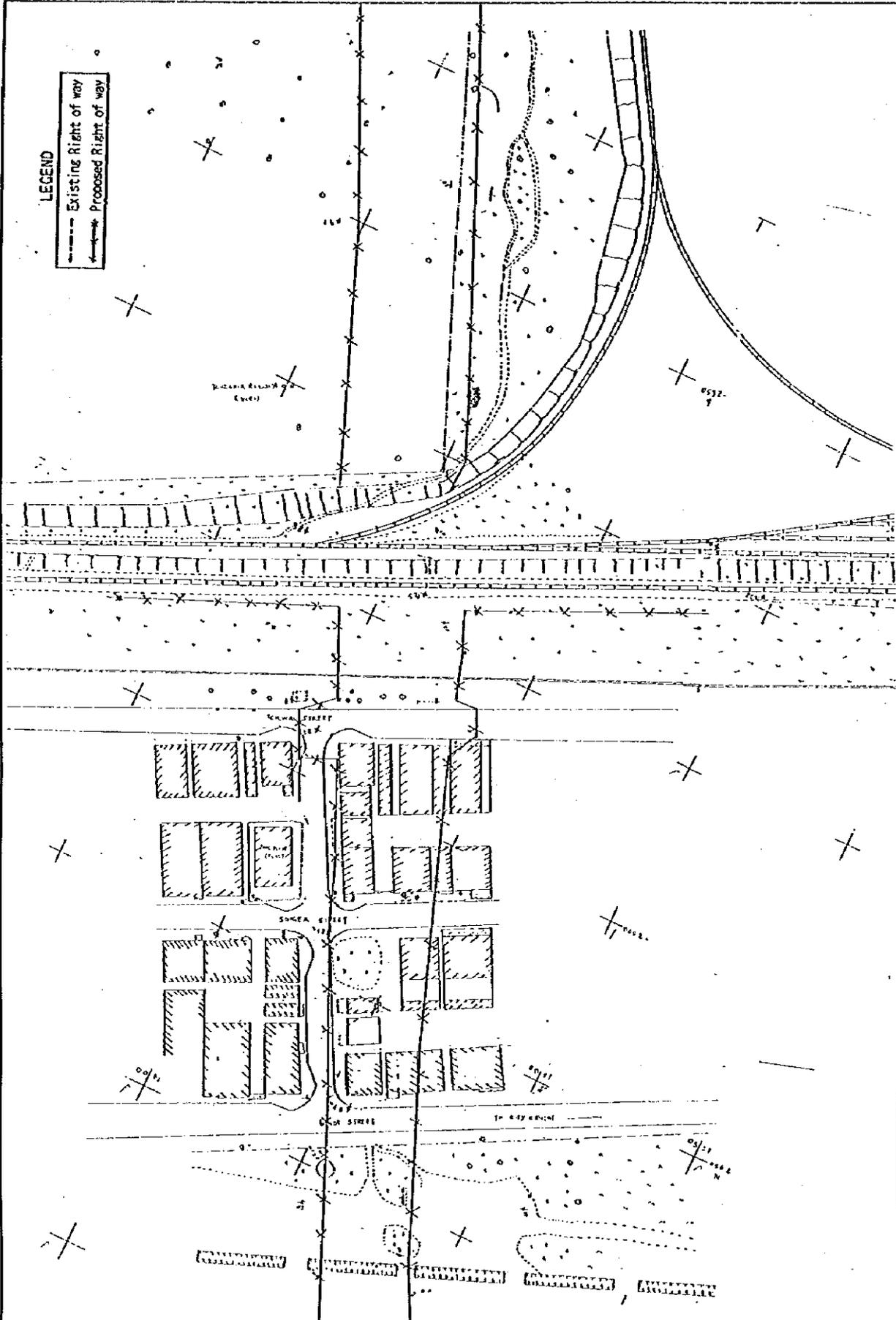


UNITED REPUBLIC OF TANZANIA MINISTRY OF WORKS	BASIC DESIGN STUDY ON DAR ES SALAAM ROAD DEVELOPMENT PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	MIDDLE RING ROAD Site Plan(2) S-1:1,000	DATE JANUARY 1997	SHEET NO. 90
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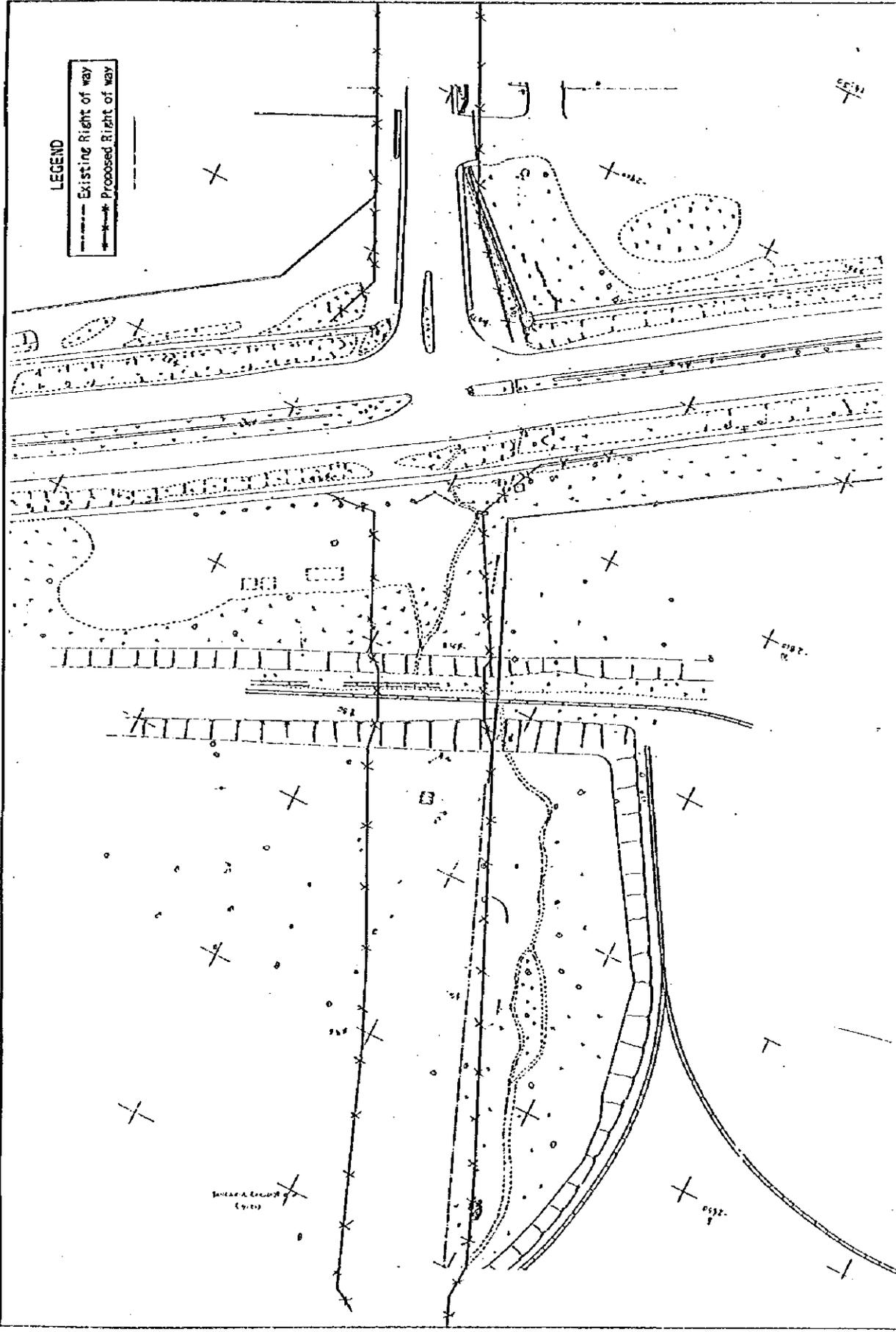


UNITED REPUBLIC OF TANZANIA MINISTRY OF WORKS	BASIC DESIGN STUDY ON DAR ES SALAAM ROAD DEVELOPMENT PROJECT		JAPAN INTERNATIONAL COOPERATION AGENCY	MIDDLE RING ROAD	DATE	SHEET NO.
				Site Plan(22) S=1:1,000	JANUARY 1997	91

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UNITED REPUBLIC OF TANZANIA MINISTRY OF WORKS	BASIC DESIGN STUDY ON DAR ES SALAAM ROAD DEVELOPMENT PROJECT		JAPAN INTERNATIONAL COOPERATION AGENCY	MIDDLE RING ROAD Site Plan(2); S=1:1,000	DATE JANUARY 1997	SHEET NO. 92
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UNITED REPUBLIC OF TANZANIA MINISTRY OF WORKS	BASIC DESIGN STUDY ON DAR ES SALAAM ROAD DEVELOPMENT PROJECT	JAPAN INTERNATIONAL COOPERATION AGENCY	MIDDLE RING ROAD Site Plan(24) S=1:1,000	DATE JANUARY 1997 SHEET NO. 93
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