JAPAN INTERNATIONAL COOPERATION AGENCY

DEPARTMENT OF HIGHWAYS MINISTRY OF TRANSPORT AND COMMUNICATIONS KINGDOM OF THAILAND

FEASIBILITY STUDY ON THE INTER-CITY TOLL MOTORWAY PROJECTS IN THE KINGDOM OF THAILAND

FINAL REPORT

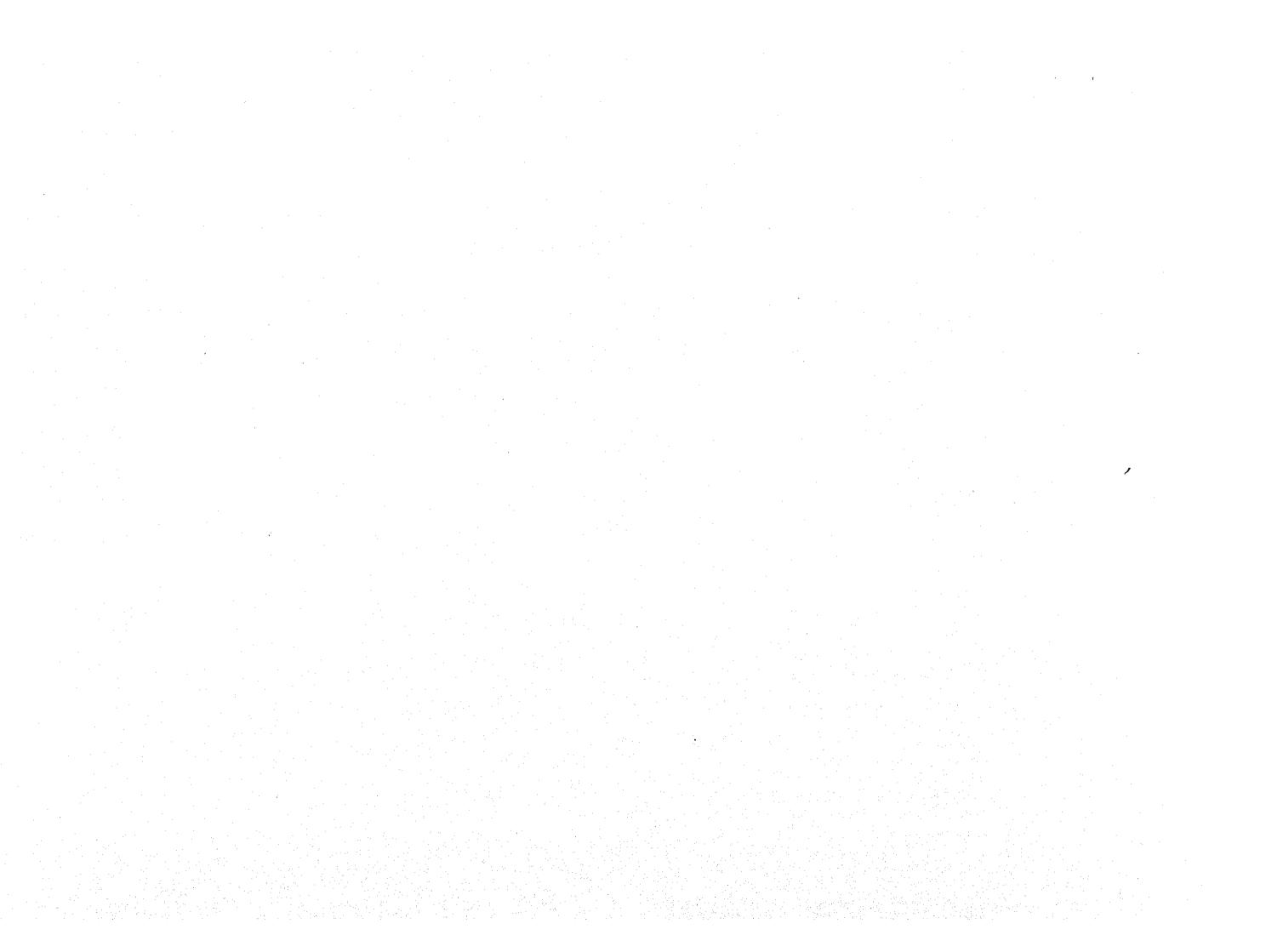
DRAWINGS

MARCH 1995

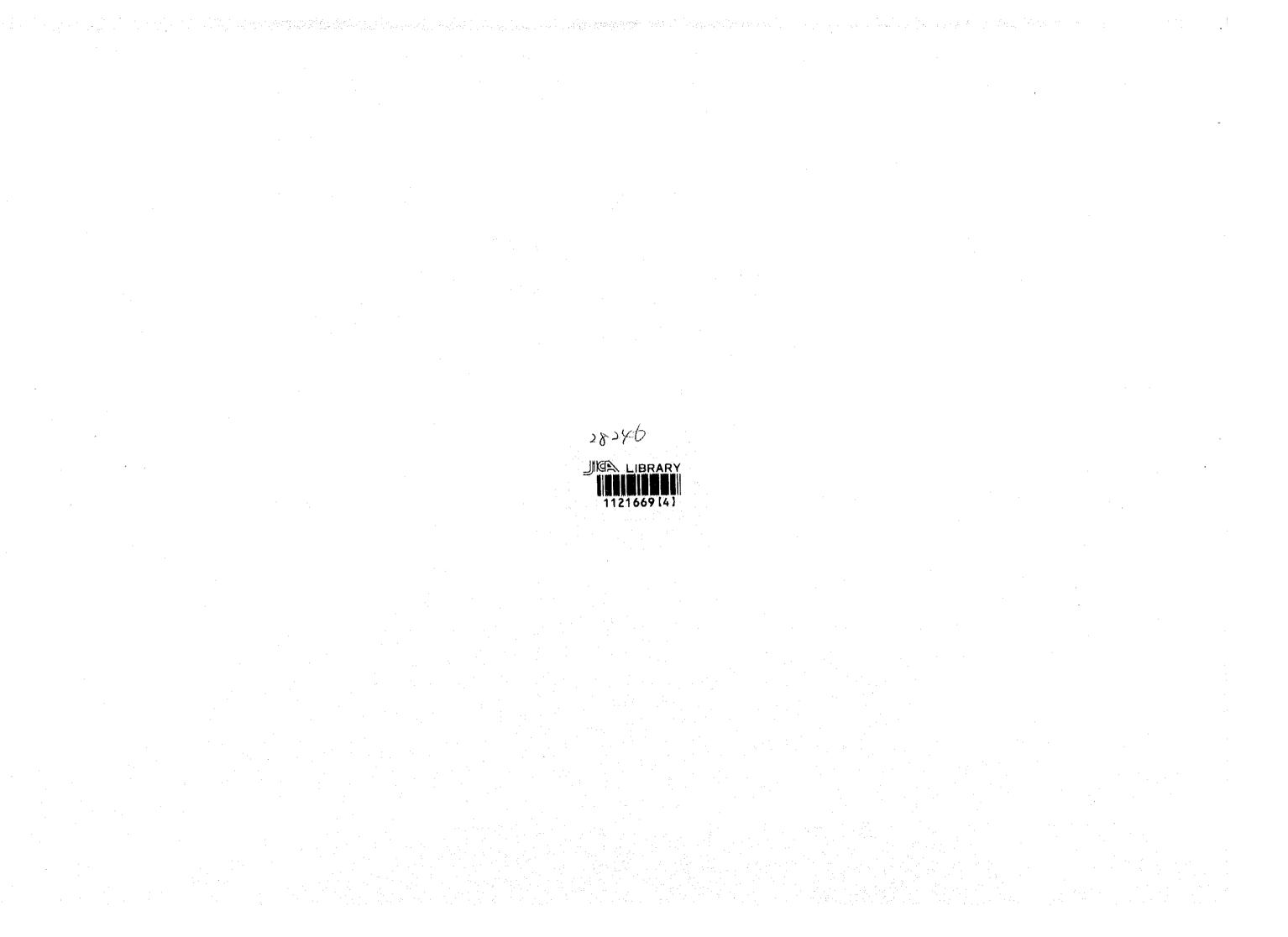
KATAHIRA & ENGINEERS INTERNATIONAL NIPPON KOEI CO., LTD. KOKUSAI KOGYO CO., LTD.

No. 63





38346 LIBRARY 1121669 [4]



国際協力事業団

28246



JAPAN INTERNATIONAL COOPERATION AGENCY

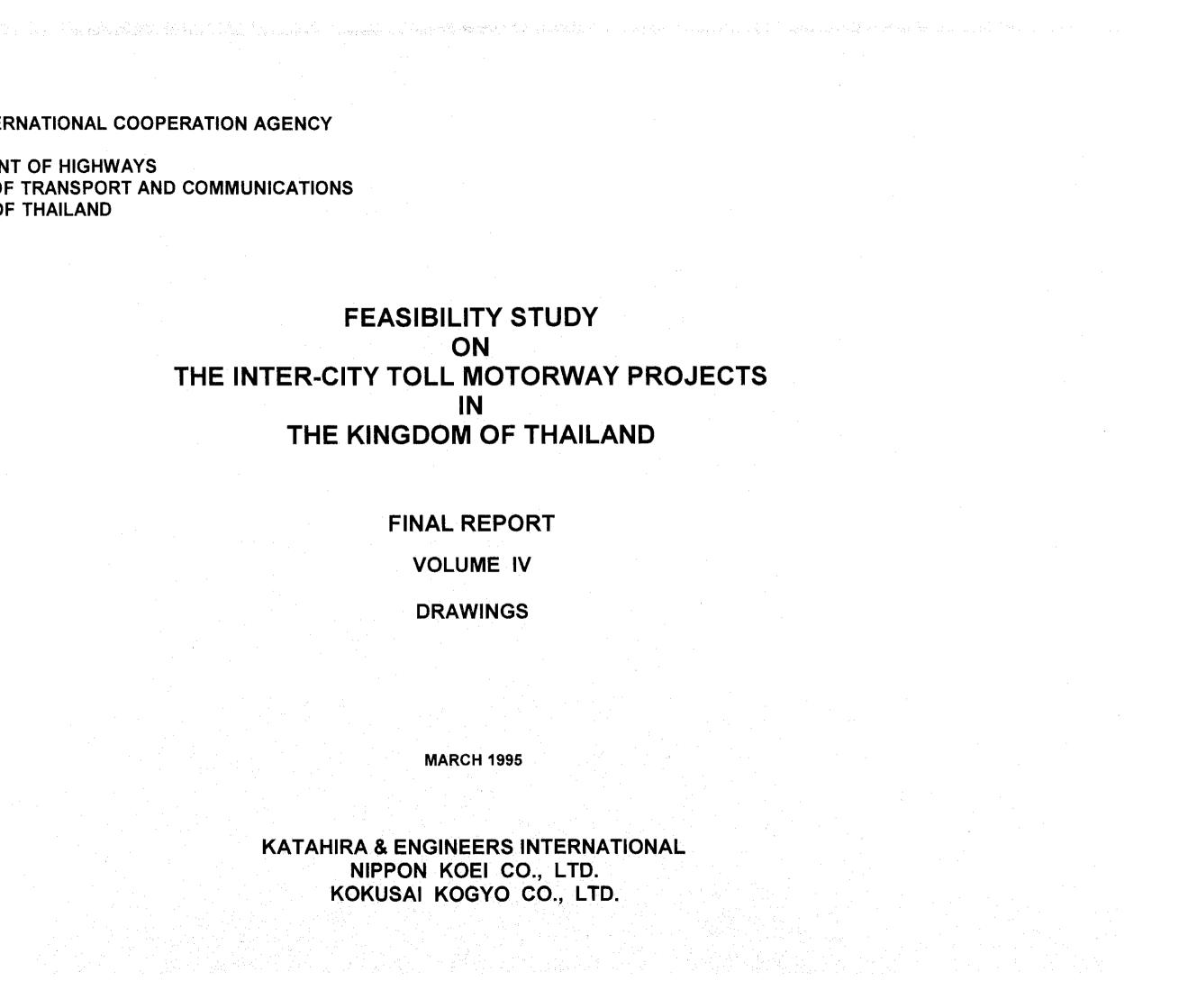
DEPARTMENT OF HIGHWAYS MINISTRY OF TRANSPORT AND COMMUNICATIONS KINGDOM OF THAILAND

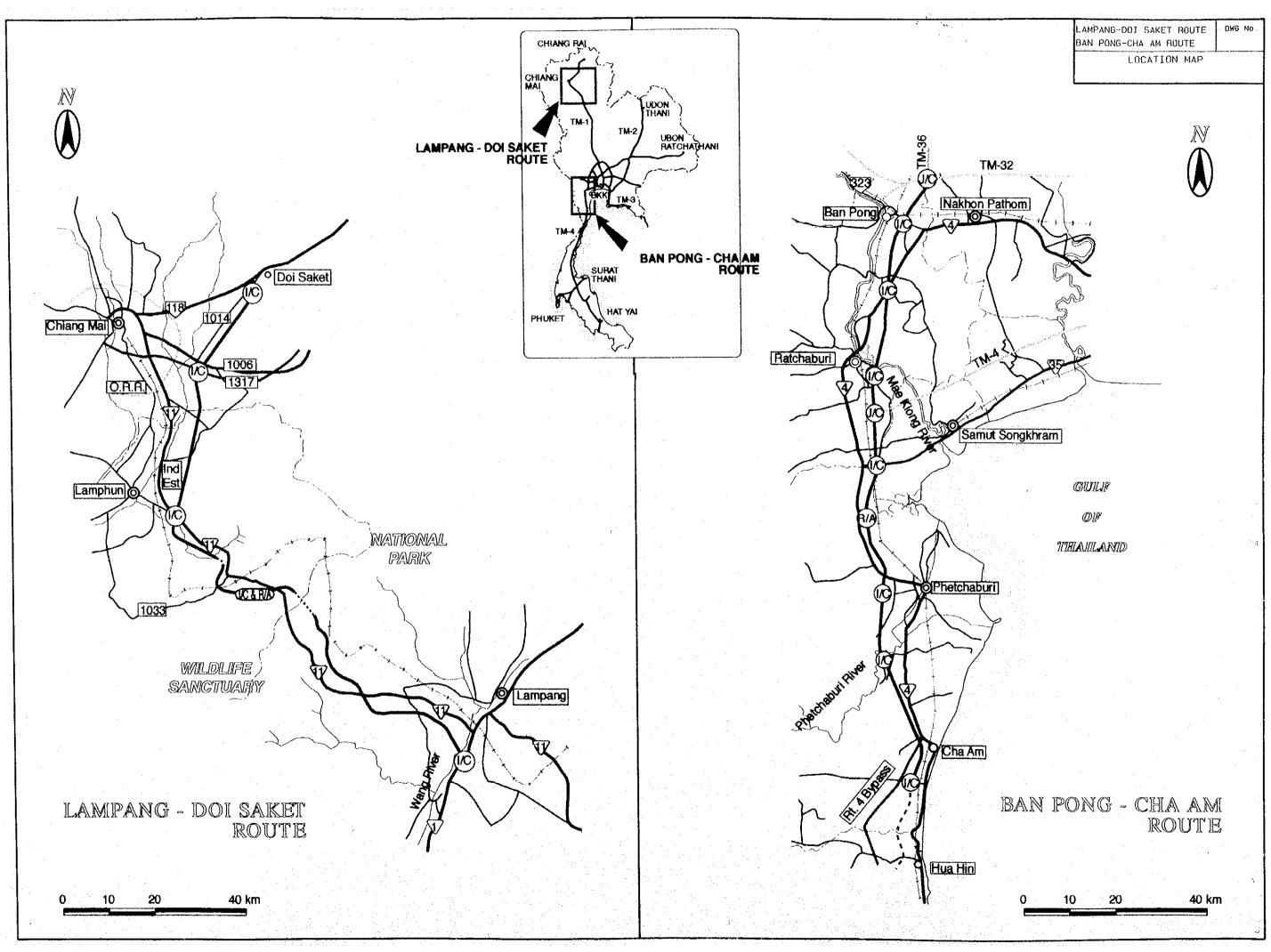
FEASIBILITY STUDY ON THE INTER-CITY TOLL MOTORWAY PROJECTS IN THE KINGDOM OF THAILAND

FINAL REPORT VOLUME IV DRAWINGS

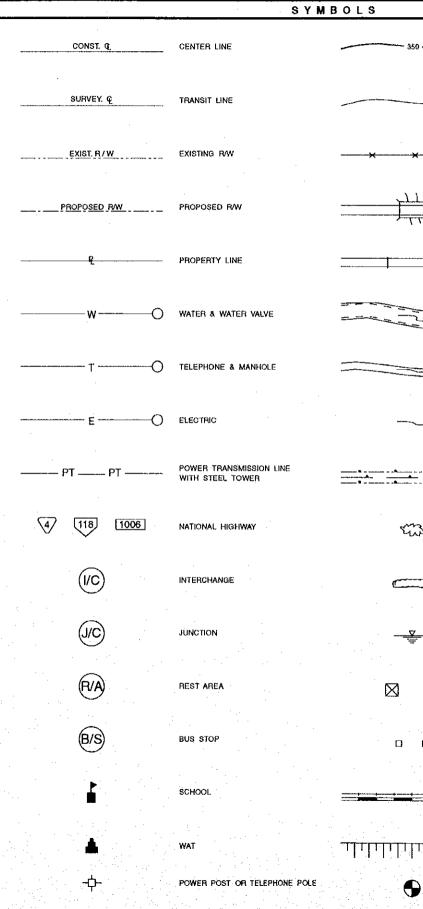
MARCH 1995

KATAHIRA & ENGINEERS INTERNATIONAL NIPPON KOEI CO., LTD. KOKUSAI KOGYO CO., LTD.





A AASHTO A.C. AGG. AH,	AREA AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS	M.H. Min.	MANHOLE
A.C. AGG.		MIN.	
AGG.	AND TRANSPORTATION OFFICIALS		MINIMUM
AGG.		MISC.	MISCELLANEOUS
	ASPHALTIC CONCRETE	MM.	MILLIMETER
AH.	AGGREGATE	MM ²	SQUARE MILLIMETER
	AHEAD	M.O.	MIDDLE ORDINATE
ALT.	ALTERNATIVE	MONT.	MONUMENT
APPROX.	APPROXIMATE	M.S.L.	MEAN SEA LEVEL
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS	N,	NORTH
AVG.	AVERAGE	N/B	NORTH BOUND
BIT.	BITUMINOUS	NO.	NUMBER
BK.	BACK	0,D.	OUTSIDE DIAMETER
3KK.	BANGKOK	P.B.M.	PERMANENT BENCH MARK
BM.	BENCH MARK	P.C.	PRESTRESSED CONCRETE
BOTT.	BOTTOM	P.C.C.	POINT OF COMPOUND CURVE
3.P.	BIGINING POINT	P.G.	PROFILE GRADE
BRDG.	BRIDGE	P.I.	POINT OF HORIZONTAL INTERSECTION
BRG.	BEARING	PL.	PLATE
3/S	BUS STOP	P.O.C.	POINT ON CURVE
C.B.R.	CALIFORNIA BEARING RATIO	P.O.S.T.	POINT ON SUBTANGENT
C/C(ORCTOC)	CENTER TO CENTER	P.O.T.	POINT ON TANGENT
CL.	CLEARANCE	P.R.C.	POINT OF REVECE CURVE
cm	CENTIMETER	PROJ.	PROJECT
em ²	SQUARE CENTIMETER	P.T.	POINT OF TANGENT
C.M.P.	COBRUGATED METAL PIPE	P.V.C.	
COL	COLUMN		POINT OF VERTICAL CURVE
CONC.	COLOMN	P.V.J.	POINT OF VERTICAL INTERSECTION
		P.V.R.C.	POINT OF VERTICAL REVERSE CURVE
C.P.	CONCRETE PIPE	P.V.C.	POINT OF VERTICAL TANGENT
C.S.	CURVE - SPIRAL	R.	RADIUS
CU.M. (OR m.)	CUBIC METER	R/A	REST AREA
D.	DEGREE OF CURVE	R.C.	REINFORCED CONCRETE
D.B.S.T	DOUBLE BITUMINOUS SURFACE TREATMENT	R.C.B.	REINFORCED CONCRETE BOX CULVERT
DEG.	DEGREE	R.C.P.	REINFORCED CONCRETE PIPE CULVERT
DIA.	DIAMETER	AD.	ROAD
DL.	DATUM LINE	R.E.	RESIDENT ENGINEER
D.O.H.	DEPARTMENT OF HIGHWAYS	REF.	REFERENCE
DWG.	DRAWING	REINF.	REINFORCEMENT
E.	EXTERNAL DISTANCE OF SIMPLE CURVE OR EAST	REQ 10	REQUIRED
EA,	EACH	R.I.D.	ROYAL IRRIGATION DEPARTMENT
el. (or elev.)	ELEVATION	R.O.W. (OR R/W)	RIGHT OF WAY
ENGR.	ENGINEER	S.	SCALE
E.P.	END POINT	\$.B.S.T.	SINGLE BITUMINOUS SURFACE TREATMENT
EQ. (OR =)	EQUATION OR EQUAL	S.C.	SPIRAL - CURVE
EQUIV.	EQUIVALENT	SE.	SUPERELEVATION
EXIST.	EXISTING	SEC, (OR Sec)	SECANT
EXP.	EXPANSION	SECT.	SECTION
FH.	FORMATION HEIGHT	SL.	SPRING LINE
FTG.	FOOTING		
GH.	GROUND HEIGHT	SP.	SPAN
an. H	HORIZONTAL	SPG.	
		S.R.	SIDE ROAD
H.& FIN	HUB AND RED NAIL	S.R.T	STATE RAILWAYS OF THAILAND
HDWL.		S.T.	SPIRAL - TANGENT
HPS.	HIGH PRESSURE SODIUM LAMP	STA.	STATION
H.W.L.	HIGH WATER LEVEL	STD.	STANDARD
HWY.	HIGHWAY	STR.	STRAIGHT
1/0	INTERCHANGE	SYMM.	SYMMETRY OR SYMMETICAL
.D.	INSIDE DIAMETER	S/8	SOUTH BOUND
N. (OR ')	INCH	THK (OR t)	THICKNESS
NV.	INVERT	T.S.	TANGENT - SPIRAL
HC	JUNCTION	TYP.	TYPICAL
JT.	JOINT	VOL.	VOLUME
KG.	KILOGRAM	V.C.L.	LENGTH OF VERTICAL CURVE
KM. (018 Km.)	KILOMETER	V.	VERTICAL
KPH. (OR Km/hr)	KILOMETER PER HOUR	W.	WIDENING
L	LENGTH OF HORIZONTAL CURVE, LENGTH	W/	WITH
LEV.	LEVEL	W/B	WEST BOUND
	LINEAR METER	W/O	WITHOUT
	LOW PRESSURE SODIUM LAMP		
L.M.	LOW THEODONE CODION LANNE	<u>6</u>	CENTERLINE
L.M. LPS.	LIMD SIAL		PROPERTY LINE
L.M. LPS. L.S.	LUMP SUM	٤	
L.M. LPS. L.S. LT.	LEFT	2 8	SPUR LINE OR SURVEY LINE
L.M. LPS. L.S. L T. L.W.L.	LEFT LOW WATER LEVEL		SPUR LINE OR SURVEY LINE PERCENT
L.M. LPS. L.S. L.T. L.W.L. m	LEFT LOW WATER LEVEL METER		SPUR LINE OR SURVEY LINE PERCENT AND
L.M. LPS. L.S. L.T. L.W.L.	LEFT LOW WATER LEVEL		SPUR LINE OR SURVEY LINE PERCENT

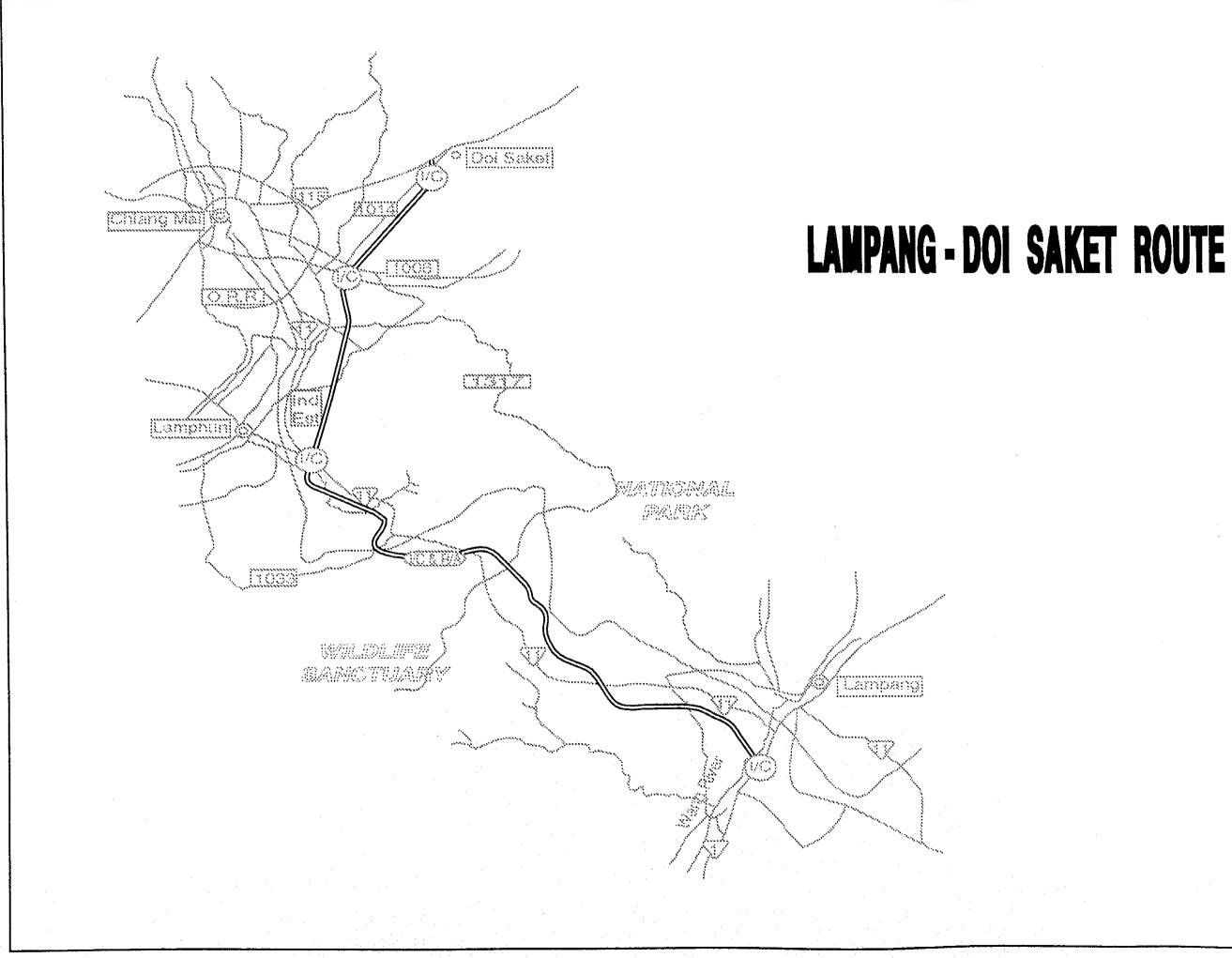


LAMPANG-DOI SAKET ROUTE	DWG NO.
BAN PONG-CHA AM ROUTE	

ABBREVIATIONS AND SYMBOLS

--- 350 -----INDEX CONTOUR INTERMEDIATE CONTOUR WOODEN OR BARBED WIRE FENCE BRIDGE, ROAD OVER STREEM RAIL ROAD SINGLE TRUCK KHLONG OR RIVER DITCH, WATERWAY FLOW DIRECTION ~~* SWAMP AREA E. INDIVIDUAL TREES \square HEDGES ____ High water level KILOMETER MARKER (EXISTING, \boxtimes PROPOSED) R/W MARKER (EXISTING , PROPOSED) RAILWAY SLOPE

BENCH MARK



DWG. NO.	TITLE	CONTENTS							
LD,1 - 1	ROUTE MAP								
LD.2 - 1	PLAN AND PROFILE	STA. 0+000 TO STA. 9+000							
LD.2 - 2	PLAN AND PROFILE	STA. 9+000 TO STA, 18+000							
LD.2 - 3	PLAN AND PROFILE	STA. 18+000 TO STA. 27+000							
LD.2 - 4	PLAN AND PROFILE (A-LINE)	STA. 27+000 TO STA. 36+000							
LD.2 - 5	PLAN AND PROFILE (A-LINE)	STA. 36+000 TO STA. 45+000							
LD.2 - 6	PLAN AND PROFILE (A-LINE)	STA. 45+000 TO STA. 54+000							
LD.2 - 7	PLAN AND PROFILE (B-LINE)	STA. 27+000 TO STA. 36+000							
LD.2 - 8	PLAN AND PROFILE (B-LINE)	STA. 36+000 TO STA. 45+000							
LD.2 - 9	PLAN AND PROFILE (B-LINE)	STA. 45+000 TO STA. 54+000							
LD.2 - 10	PLAN AND PROFILE	STA. 54+000 TO STA. 63+000							
LD.2 - 11	PLAN AND PROFILE	STA. 63+000 TO STA. 72+000							
LD.2 - 12	PLAN AND PROFILE	STA. 72+000 TO STA. 81+000							
LD.2 - 13	PLAN AND PROFILE	STA. 81+000 TO STA. 90+000							
LD.2 - 14	PLAN AND PROFILE	STA. 90+000 TO STA. 98+714.53							
LD.3 ~ 1	TYPICAL CROSS SECTION (1)	EMBANKMENT SECTION IN FLAT AREA CUT SECTION IN FLAT AREA							
LD.3 - 2	TYPICAL CROSS SECTION (2)	CUT AND EMBANKMENT SECTION IN ROLLING AREA							
LD.3 - 3	TYPICAL CROSS SECTION (3)	CUT AND EMBANKMENT SECTION IN MOUNTAINOUS AREA							
LD.3 - 4	TYPICAL CROSS SECTION (4)	TUNNEL SECTION BRIDGE AND VIADUCT SECTION IN FLAT AREA							
LD.3 - 5	TYPICAL CROSS SECTION (5)	VIADUCT SECTION IN MOUNTAINOUS AREA							
LD.4 - 1	STRUCTURAL CLASSIFICATION								
LD.4 - 2	2 LIST OF BRIDGES AND VIADUCTS 3 LIST OF OVERBRIDGES AND BOX CULVERTS								
LD,4 - 3									
LD.4 - 4	GENERAL VIEW	VIADUCT STA. 50+770 TO STA. 51+700							
LD.4 - 5	GENERAL VIEW	OVERBRIDGE STA. 10+830 ROUTE NO. 1034							

DWG. NO.	TITLE	c
LD.5 - 1	PLAN AND PROFILE	NO.1 TUNNEL
LD.5 - 2	PLAN AND PROFILE	NO.3 TUNNEL
LD.5 - 3	TYPICAL TUNNEL SECTION AND	DUST COLLECTION C
LD.5 - 4	GENERAL VIEW OF PORTAL	NO.1 TUNNEL
LD.5 - 5	GENERAL VIEW OF PORTAL	NO.3 TUNNEL
LD.5 - 6	LAYOUT OF TUNNEL FACILITIES	6
LD.6 - 1	LAMPANG INTERCHANGE	PLAN
LD.6 - 7	LAMPANG INTERCHANGE	PROFILE AND SECT
LD.6 - 3	MAE THA INTERCHANGE	PLAN
LD.6 - 4	MAE THA INTERCHANGE	PROFILE AND SECT
LD.6 - 5	LAMPHUN INTERCHANGE	PLAN
LD.6 - 6	LAMPHUN INTERCHANGE	PROFILE AND SECT
LD.6 - 7	CHIANG MAI INTERCHANGE	PLAN
LD.6 - 8	CHIANG MAI INTERCHANGE	PROFILE AND SECT
LD.6 - 9	DOI SAKET INTERCHANGE	PLAN
LD.6 - 10	REST AREA TYPE "A"	DETAILS
LD.6 - 11	REST AREA TYPE "B" & "C"	DETAILS
LD.6 - 12	BUS STOP	DETAILS
LD.6 - 13	RAMP TERMINAL	DETAILS
LD.6 - 14	TRAFFIC SIGN	DETAILS
LD.6 - 15	ROAD MARKING	DETAILS
LD.6 - 16	DRAINAGE SYSTEM	DETAILS

								 	-		-	_	-	 _	
с	0	N	T	E	N	т	s	 _						 	
CI	IAI	4BI	CR.					 	•••••					 	
														 	
									•••••	•••••					
CT1	IOI	13						 						 	
CTI	IOI	15						 							
								 					-	 	
CT 1	[O]	1S												 	-
CT:	toi	NS.						 						 	
								 	• ••		·	 .,		 	
								 ·							
						<u></u> .	<u></u>	 						 	

