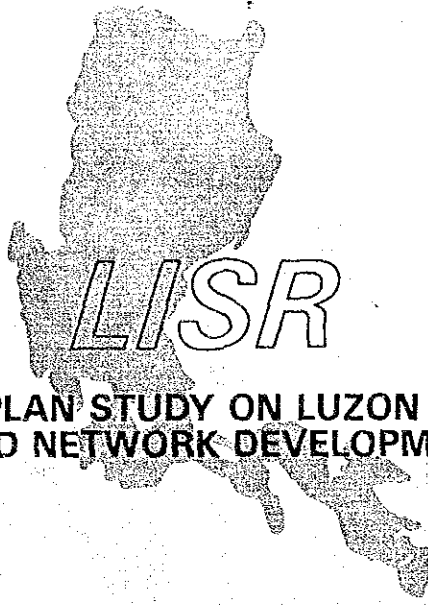


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REPUBLIC OF THE PHILIPPINES

JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)
DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS
REPUBLIC OF THE PHILIPPINES

MASTER PLAN STUDY ON LUZON ISLAND
STRATEGIC ROAD NETWORK DEVELOPMENT PROJECT
FINAL REPORT - ROAD INVENTORY - JULY 1993



MASTER PLAN STUDY ON LUZON ISLAND
STRATEGIC ROAD NETWORK DEVELOPMENT PROJECT

FINAL REPORT

ROAD INVENTORY

JULY 1993

KATAHIRA & ENGINEERS INTERNATIONAL
NIPPON KOEI CO., LTD.

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MASTER PLAN STUDY ON LUZON ISLAND
STRATEGIC ROAD NETWORK DEVELOPMENT PROJECT

FINAL REPORT

ROAD INVENTORY

JULY 1993

KATAHIRA & ENGINEERS INTERNATIONAL
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SECTION - 1
ROAD CONDITION SURVEY

ROAD CONDITION SURVEY

1. GENERAL

The road condition survey was conducted covering all national roads and some provincial road which are considered as vital linkages to the road network of Luzon Island.

The survey was carried out by filed survey or by interview survey. The field survey was applied for all road links that were accessible to public utility vehicle while interview survey was conducted to road links with security problems or inaccessible to vehicle.

2. ROAD INVENTORY SURVEY

2.1 Review of existing data/information

Prior to field survey, relevant data and information regarding the project areas were collected and reviewed. Provincial Road Maps, Regional Maps and topographical maps with a scale of 1:250,000 and 1:500,000 are utilized as base maps for the preparing road maps.

Road Straight Line Diagram, Road Inventory Data and Bridge Inventory Data prepared by Bureau of Maintenance of DPWH are also utilized to check existing pavement type and location of bridges.

The JICA assisted "Feasibility Study on Rural Road Network Development Project Phase I and II" have conducted extensive road inventory survey in 1987 and 1989 in the province of La Union, Nueva Ecija, Cavite, Rizal and Albay. Road Inventory data made by above studies was fully utilized and incorporated in this study by updating with supplemental field surveys.

2.2 Field Survey

The survey teams, each team is composed of 1(1) Japanese Engineer with two (2) Filipino counterparts, conducted field survey on 22nd of April to 21st of May in 1992 for all road links selected by the Study Team.

Two types of survey sheets were prepared for field survey i.e. "Road Inventory Sheet" and "Bridge Inventory Sheet". A sample of each survey sheet is shown in Table 1 and 2. In the field survey, all road data and bridge data were recorded in the field survey sheets following the instructions shown in Table 3 and 4.

2.3 Interview Survey

Interview survey was conducted for the roads inaccessible to survey vehicle or roads with security uncertainties. The survey team visited DPWH district offices and gathered relevant information from maintenance engineers who are familiar with the road conditions. Likewise interview with the barangay officials or residents living in the vicinity of survey road was conducted. Result of interview survey was recorded on the same forms as the Field Survey Sheet.

3. RESULT OF ROAD CONDITION SURVEY

Result of road condition survey and location of surveyed road are presented in section 2

TABLE 1 ROAD INVENTORY SURVEY SHEET

Road Number: _____ Date: _____ Weather: _____ Road Name: _____ Surveyors: _____ Road Class: N/P/C Length: _____ Km (From) _____ Km to _____ Km

Subsection Number	Length	Station		Terrain	Carriageway			Shoulder/Sidewalk		Length of Substandard Alignment Section	Length of Disaster Potential Section			Survey Method	Remarks
		From	To		Type	Width	Condition	Type	Width		CS	ES	DF		
	Km	From	Km	F	C	G	m	C	G	m	CS	m, SR	F		
		To	Km	R	A	F		A	E		ES	m, FR	H		
				M	E	B		U			DF	m			
	Km	From	Km	F	C	G	m	C	G	m	CS	m, SR	F		
		To	Km	R	A	F		A	E		ES	m, FR	H		
				M	E	B		U			DF	m			
	Km	From	Km	F	C	G	m	C	G	m	CS	m, SR	F		
		To	Km	R	A	F		A	E		ES	m, FR	H		
				M	E	B		U			DF	m			
	Km	From	Km	F	C	G	m	C	G	m	CS	m, SR	F		
		To	Km	R	A	F		A	E		ES	m, FR	H		
				M	E	B		U			DF	m			
	Km	From	Km	F	C	G	m	C	G	m	CS	m, SR	F		
		To	Km	R	A	F		A	E		ES	m, FR	H		
				M	E	B		U			DF	m			
	Km	From	Km	F	C	G	m	C	G	m	CS	m, SR	F		
		To	Km	R	A	F		A	E		ES	m, FR	H		
				M	E	B		U			DF	m			
	Km	From	Km	F	C	G	m	C	G	m	CS	m, SR	F		
		To	Km	R	A	F		A	E		ES	m, FR	H		
				M	E	B		U			DF	m			
	Km	From	Km	F	C	G	m	C	G	m	CS	m, SR	F		
		To	Km	R	A	F		A	E		ES	m, FR	H		
				M	E	B		U			DF	m			
	Km	From	Km	F	C	G	m	C	G	m	CS	m, SR	F		
		To	Km	R	A	F		A	E		ES	m, FR	H		
				M	E	B		U			DF	m			
	Km	From	Km	F	C	G	m	C	G	m	CS	m, SR	F		
		To	Km	R	A	F		A	E		ES	m, FR	H		
				M	E	B		U			DF	m			

TABLE 2 BRIDGE INVENTORY SURVEY SHEET

Road Number: _____ Date: _____ Road Name: _____ Weather: _____ Road Class: N/P/C Length: _____ Km to _____ Km from _____ Km

Subsection Number	Bridges Name	Station	Bridge Type	Bridge Length	Span Length	Width		Bridge Damage			Approach Road Damage			Survey Method	Remarks	
						Carri- ageway	Side- walk	Slab	Super- structure	Sub- structure	Manila Side Magnitude	Opposite Side Magnitude	Length			Length
			P S		m	x	m	L U	H	L U	L U	H	L U	m	F	
		Km	B F		m	x	m	L U	H	L U	L U	H	L U	m	H	
			N		m	x	m	M	M	M	M	M	M	m		
			P S		m	x	m	L U	H	L U	L U	H	L U	m	F	
		Km	B F		m	x	m	L U	H	L U	L U	H	L U	m	H	
			N		m	x	m	M	M	M	M	M	M	m		
			P S		m	x	m	L U	H	L U	L U	H	L U	m	F	
		Km	B F		m	x	m	L U	H	L U	L U	H	L U	m	H	
			N		m	x	m	M	M	M	M	M	M	m		
			P S		m	x	m	L U	H	L U	L U	H	L U	m	F	
		Km	B F		m	x	m	L U	H	L U	L U	H	L U	m	H	
			N		m	x	m	M	M	M	M	M	M	m		
			P S		m	x	m	L U	H	L U	L U	H	L U	m	F	
		Km	B F		m	x	m	L U	H	L U	L U	H	L U	m	H	
			N		m	x	m	M	M	M	M	M	M	m		
			P S		m	x	m	L U	H	L U	L U	H	L U	m	F	
		Km	B F		m	x	m	L U	H	L U	L U	H	L U	m	H	
			N		m	x	m	M	M	M	M	M	M	m		
			P S		m	x	m	L U	H	L U	L U	H	L U	m	F	
		Km	B F		m	x	m	L U	H	L U	L U	H	L U	m	H	
			N		m	x	m	M	M	M	M	M	M	m		
			P S		m	x	m	L U	H	L U	L U	H	L U	m	F	
		Km	B F		m	x	m	L U	H	L U	L U	H	L U	m	H	
			N		m	x	m	M	M	M	M	M	M	m		
			P S		m	x	m	L U	H	L U	L U	H	L U	m	F	
		Km	B F		m	x	m	L U	H	L U	L U	H	L U	m	H	
			N		m	x	m	M	M	M	M	M	M	m		
			P S		m	x	m	L U	H	L U	L U	H	L U	m	F	
		Km	B F		m	x	m	L U	H	L U	L U	H	L U	m	H	
			N		m	x	m	M	M	M	M	M	M	m		
			P S		m	x	m	L U	H	L U	L U	H	L U	m	F	
		Km	B F		m	x	m	L U	H	L U	L U	H	L U	m	H	
			N		m	x	m	M	M	M	M	M	M	m		
			P S		m	x	m	L U	H	L U	L U	H	L U	m	F	
		Km	B F		m	x	m	L U	H	L U	L U	H	L U	m	H	
			N		m	x	m	M	M	M	M	M	M	m		

TABLE 3 (1) INSTRUCTION FOR ENTRY IN ROAD INVENTORY SURVEY SHEET

INSTRUCTION FOR ENTRY IN ROAD INVENTORY SURVEY SHEET	
Header	Road Number : Particular number given to each road link in this study
	Road Name : Official name used by DPWH
	Road Class : Either of: N: National Road P: Provincial Road C: City Road
	Length : in kilometer
	Beginning Station Ending Station
Subsection Date	Subsection No. : Serial Number
	Length : in kilometer
	Beginning Station Ending Station
	Terrain : Either of : F (Flat) : Grade/alignment permitting heavy vehicles to maintain approximately the same speed as passenger cars R (Rolling) : Grade/alignment causing heavy vehicles to reduce their speed substantially below that of passenger cars but not causing heavy vehicles to operate at crawl speed for any significant length of time M (Mountainous) : Grade/alignment causing heavy vehicles to operate a crawl speed for significant distances or at frequent intervals
	Carriageway Type : Either of: C: Portland cement concrete pavement A: Asphalt concrete pavement, bituminous surface treatment, or bituminous penetration macadam pavement G: Gravel surface road E: Earth road
	Carriageway Width : in meter
	Carriageway Condition : Either of: G (Good) : No little distress, not causing vehicles to reduce their speed F (Fair) : Slight distress, permitting passenger cars to operate at a speed of more than 50 km/hr. B (Bad) : Considerably deteriorated, maximum comfortable travel speed of cars being about 30 km/hr. V (Very Bad) : Significantly deteriorated/breaking up, maximum comfortable travel speed of cars being about 20 km/hr or less I (Impassable) : Impassable to motorized vehicles U (Under Construction) : Construction/rehabilitation work is being done
	Shoulder/Sidewalk Type : Either of: C: Portland cement concrete pavement A: Asphalt concrete pavement, bituminous surface treatment, or bituminous penetration macadam pavement G: Gravel surface road E: Earth road
	Shoulder/Sidewalk Width : in meter (Note) : For gravel or earth road in which border of carrieway and shoulder is not clear, total width may be entered in the column of carriageway width and zero in the column of shoulder width

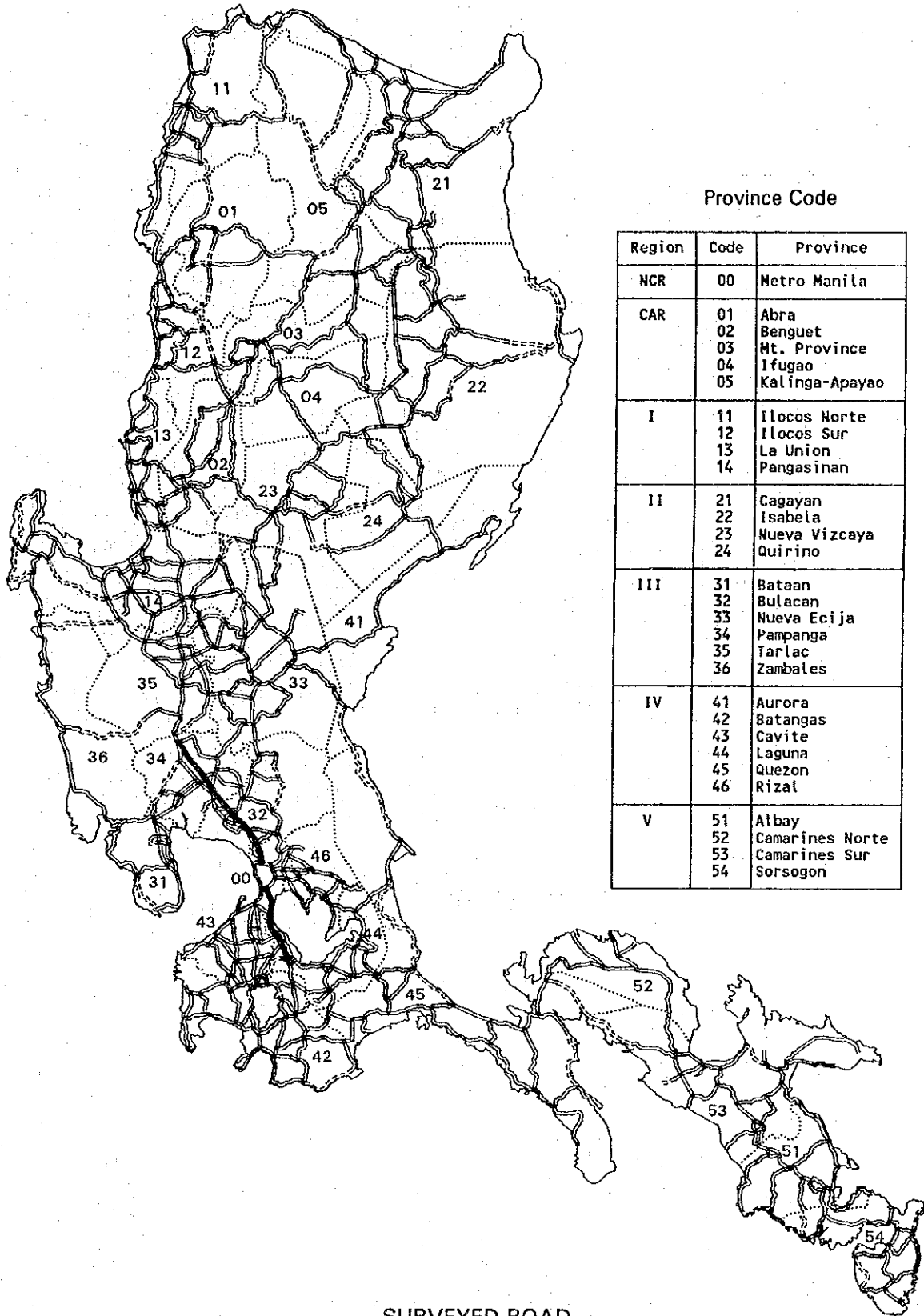
TABLE 3 (2) INSTRUCTION FOR ENTRY IN ROAD INVENTORY SURVEY SHEET

INSTRUCTION FOR ENTRY IN ROAD INVENTORY SURVEY SHEET	
Length of Substandard	
Alignment Section	: Length in meter of the section needing improvement of horizontal and/or vertical alignment
Length of Disaster Potential Section	: Length in meter of the section with disaster potential by disaster type classified as follows: CS: Cut slope damage ES: Embankment slope damage DF: Debris flow SR: Scour/washout of roadbed FR: Flooding
Survey Method	: Either of: F: Field Reconnaissance H: Hearing

TABLE 4 INSTRUCTION FOR ENTRY IN BRIDGE INVENTORY SURVEY SHEET

INSTRUCTION FOR ENTRY IN BRIDGE INVENTORY SURVEY SHEET		
Header	Road Number	: Particular number given to each road link in this study
	Road Name	: Official name used by DPWH
	Road Class	: Either of: N: National Road P: Provincial Road C: City Road
	Length	: In kilometer
	Beginning Station	:
	Ending Station	:
Individual Bridge Data	Subsection No.	: Subsection number in which the bridge is located
	Bridge Name	:
	Station	:
	Bridge Type	: Either of: P: Permanent bridge (RC/PC/Steel) B: Bailey bridge T: Timber bridge S: Spillway F: Ford Crossing N: No way of crossing for motorized vehicles
	Bridge Length	: In meter
	Span Length	: Number of spans and span length in meter
	Width	: Carriageway width and sidewalk width in meter
	Bridge Damage	: Either of: -: No damage L: Needing minor repair M: Needing major repair H: Needing reconstruction U: Under construction/repair
	Approach Road Damage	
	Magnitude	: Either of: -: No damage L: Not affecting carriageway M: Affecting one lane H: Affecting full carriageway U: Under repair
	Length	: Damaged length in meter
	Survey Method	: Either of: F: Field Reconnaissance H: Hearing

SECTION - 2
ROAD INVENTORY



SURVEYED ROAD

TOTAL LENGTH OF SURVEYED ROADS

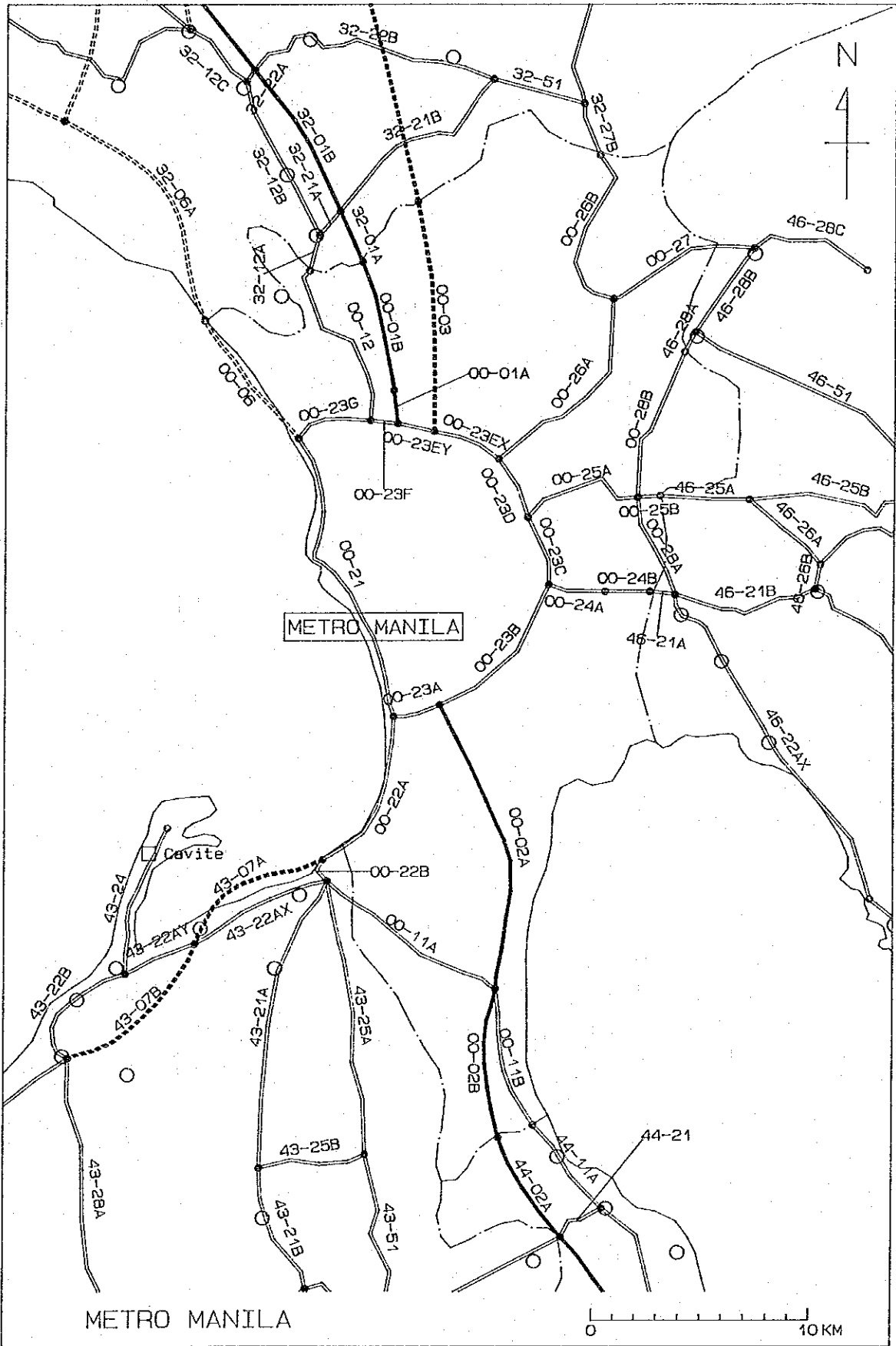
Region	Code	Name of Provinces	Surveyed Road (km)			
			National	Provincial	Expressway	Total
Whole Luzon			9,796.8	2,124.8	122.4	12,044.0
NCR	00	Metro Manila	134.8	-	28.8	163.6
CAR	01	Abra	209.9	82.5	-	292.0
	02	Benguet	455.5	28.5	-	484.0
	03	Mt. Province	335.7	-	-	335.7
	04	Ifugao	250.4	-	-	250.4
	05	Kalinga-Apayao	588.0	8.0	-	596.0
I	11	Ilocos Norte	367.2	26.0	-	393.2
	12	Ilocos Sur	350.6	40.0	-	390.6
	13	La Union	171.8	92.9	-	264.7
	14	Pangasinan	455.8	327.1	-	783.0
II	21	Cagayan	658.4	89.7	-	748.1
	22	Isabela	431.5	226.0	-	657.6
	23	Nueva Vizcaya	307.8	55.0	-	362.8
	24	Quirino	228.4	5.0	-	233.4
III	31	Bataan	200.5	62.4	-	262.9
	32	Bulacan	223.4	24.0	35.7	283.1
	33	Nueva Ecija	416.0	199.4	-	615.4
	34	Pampanga	254.4	-	35.5	289.9
	35	Tarlac	201.4	127.1	-	328.4
	36	Zambales	189.9	44.6	-	234.5
IV	41	Aurora	206.5	22.6	-	229.1
	42	Batangas	524.1	76.3	-	600.4
	43	Cavite	260.7	77.1	-	337.8
	44	Laguna	310.7	31.1	22.5	364.2
	45	Quezon	590.2	296.8	-	887.0
	46	Rizal	195.7	19.1	-	214.8
V	51	Albay	320.5	26.3	-	346.8
	52	Camarines Norte	169.7	0.0	-	169.7
	53	Camarines Sur	495.5	69.4	-	564.9
	54	Sorsogon	292.0	67.9	-	359.8

Total Length of Surveyed Roads by Surface Type/Condition/Carriageway Width(W)

Whole Luzon Island

Surface Type	Surface Condition	National Road			Provincial Road			Total		
		W<6.0m	W=6.0m W>6.0m	Total	W<6.0m	W=6.0m W>6.0m	Total	W<6.0m	W=6.0m W>6.0m	Total
Concrete	Good	11.7	2830.5	2842.2	13.2	207.4	220.6	24.9	3037.8	3062.8
	Fair	6.5	625.9	632.5	1.1	60.8	61.9	7.6	686.7	694.4
	Bad	3.2	107.7	110.9	0.7	7.2	7.9	3.9	114.9	118.8
	Very Bad	0.8	2.2	3.0	-	13.1	13.1	0.8	15.3	16.1
	Total	22.3	3566.3	3588.6	15.0	288.5	303.5	37.3	3854.8	3892.1
Asphalt	Good	15.8	1207.7	1223.5	0.4	97.5	97.9	16.2	1305.1	1321.4
	Fair	72.3	427.3	499.7	15.3	43.3	58.5	87.6	470.6	558.2
	Bad	173.8	185.7	359.5	28.4	16.0	44.3	202.2	201.6	403.8
	Very Bad	49.1	81.1	130.2	16.5	18.6	35.1	65.6	99.7	165.4
	Total	311.1	1901.7	2212.8	60.6	175.3	235.9	371.7	2077.0	2448.7
Gravel	Good	375.0	696.9	1071.9	38.5	193.3	231.8	413.5	890.1	1303.7
	Fair	944.3	267.7	1212.0	145.0	65.2	210.2	1089.3	332.9	1422.2
	Bad	388.7	155.9	544.5	126.3	43.3	169.6	515.0	199.2	714.2
	Very Bad	1708.0	1120.5	2828.4	309.9	301.8	611.6	2017.8	1422.2	3440.1
	Total	3750.0	2281.0	6031.0	619.7	593.3	1213.3	4035.6	2824.4	6860.0
Earth	Good	-	-	-	-	-	-	-	-	-
	Fair	-	-	-	-	-	-	-	-	-
	Bad	40.9	10.7	51.6	8.7	7.5	16.2	49.6	18.2	67.8
	Very Bad	438.8	33.2	472.0	96.6	21.4	117.9	535.3	54.6	589.9
	Total	479.6	43.9	523.6	105.2	28.9	134.1	584.9	72.8	657.7
	Impassable	765.8	-	765.8	839.6	-	839.6	1605.4	-	1605.4
Total	Good	27.6	4038.1	4065.7	13.6	304.8	318.5	41.2	4343.0	4384.1
	Fair	453.9	1750.1	2204.0	54.9	297.3	352.3	508.8	2047.5	2556.3
	Bad	1162.2	571.8	1734.0	182.8	95.8	278.6	1345.0	667.6	2012.7
	Very Bad	877.4	272.4	1149.7	239.3	96.5	335.8	1116.7	368.8	1485.6
	Impassable	765.8	-	765.8	839.6	-	839.6	1605.4	-	1605.4
	Total	3286.9	6632.4	9919.3	1330.3	794.5	2124.8	4617.2	7426.9	12044.0

METRO MANILA (00)



Total Length of Surveyed Roads by Surface Type/Condition/Carriageway Width(W)

Metro Manila

Surface Type	Surface Condition	National Road / Expressway			Provincial Road			Total		
		W<6.0m	W=6.0m W>6.0m	Total	W<6.0m	W=6.0m W>6.0m	Total	W<6.0m	W=6.0m W>6.0m	Total
Concrete	Good	-	100.4	100.4	-	-	-	-	100.4	100.4
	Fair	-	22.3	22.3	-	-	-	-	22.3	22.3
	Bad	-	-	-	-	-	-	-	-	-
	Very Bad	-	-	-	-	-	-	-	-	-
	Total	-	122.6	122.6	-	-	-	-	122.6	122.6
Asphalt	Good	-	8.2	8.2	-	-	-	-	8.2	8.2
	Fair	-	24.6	24.6	-	-	-	-	24.6	24.6
	Bad	-	-	-	-	-	-	-	-	-
	Very Bad	-	-	-	-	-	-	-	-	-
	Total	-	32.8	32.8	-	-	-	-	32.8	32.8
Gravel	Good	-	-	-	-	-	-	-	-	-
	Fair	-	-	-	-	-	-	-	-	-
	Bad	8.2	-	8.2	-	-	-	8.2	-	8.2
	Very Bad	-	-	-	-	-	-	-	-	-
	Total	8.2	-	8.2	-	-	-	8.2	-	8.2
Earth	Good	-	-	-	-	-	-	-	-	-
	Fair	-	-	-	-	-	-	-	-	-
	Bad	-	-	-	-	-	-	-	-	-
	Very Bad	-	-	-	-	-	-	-	-	-
	Total	-	-	-	-	-	-	-	-	-
	Impassable	-	-	-	-	-	-	-	-	-
Total	Good	-	108.5	108.5	-	-	-	-	108.5	108.5
	Fair	-	46.9	46.9	-	-	-	-	46.9	46.9
	Bad	8.2	-	8.2	-	-	-	8.2	-	8.2
	Very Bad	-	-	-	-	-	-	-	-	-
	Impassable	-	-	-	-	-	-	-	-	-
	Total	8.2	155.4	163.6	-	-	-	8.2	155.4	163.6

Province : Metro Manila
 Road Class : Expressway

Road Number : 00-01
 Length : 9.000 km

Road Name : North Luzon Expressway

Road Data

Link section No.	Sub-section Length (km)	Station		Terrain	Carriageway			Shoulder/sidewalk		Substandard Alignment Section		Disaster Potential Section		Survey Method
		From (km)	To (km)		Type	Width (m)	Condition	Type	Width (m)	Type (m)	Type (m)	Type (m)	Type (m)	
00-01A	1	1.546	-	Flat	Concrete	21.00	Good	Asphalt	3.00	-	-	-	Hearing	
00-01B	1	4.293	1.546-	Flat	Concrete	17.50	Good	Asphalt	3.00	-	-	-	Hearing	
	2	3.161	5.839-	Flat	Concrete	14.00	Good	Asphalt	2.50	-	-	-	Hearing	

Bridge Data

Link section No.	Sub-section Bridge Name	Station (km)	Bridge		Span		Carri- Side- ageway walk		Bridge Damage		Approach Damage		Survey Method
			Type	Length (m)	Length (m)	Width (m)	Width (m)	Slab	Superst. Subst.	MNL Side (m)	Opp. Side (m)	Type (m)	
00-01B	1 BRIDGE 1	3.000	Permanent	30.0	1x30.0	24.60	1.00	-	-	-	-	-	Hearing
	1 BRIDGE 2	5.600	Permanent	25.0	1x25.0	24.60	1.00	-	-	-	-	-	Hearing
	2 BRIDGE 3	8.100	Permanent	25.0	1x25.0	24.60	1.00	-	-	-	-	-	Hearing

Province : Metro Manila
 Road Class : Expressway

Road Number : 00-02
 Length : 19.800 km

Road Name : South Luzon Expressway

Road Data

Link section No.	Sub- No.	Length (km)	Station		Terrain	Carriageway		Shoulder/sidewalk		Substandard Alignment Section		Disaster Potential Section		Survey Method
			From (km)	To (km)		Type	Width (m)	Condition	Type	Width (m)	Type (m)	Type (m)		
00-02A	1	14.550	-	14.550	Flat	Concrete	30.00	Good	Asphalt	3.00	-	-	-	Hearing
00-02B	1	5.250	14.550	19.800	Flat	Concrete	13.42	Good	Asphalt	3.00	-	-	-	Hearing

Province : Metro Manila
Road Class : National

Road Number : 00-11
Length : 15.950 km

Road Name : Pan-Philippine Highway (Manila South Road)

Road Data

Link section No.	Sub-section No.	Length (km)	Station		Terrain	Carriageway		Shoulder/Side-walk		Substandard Alignment		Disaster Potential Section		Survey Method
			From (km)	To (km)		Type	Width (m)	Condition	Type	Width (m)	Type (m)	Type (m)		
00-11A	1	10.450	10.450	10.450	Flat	Concrete	6.70	Fair	Gravel	1.00	-	-	-	Hearing
00-11B	1	5.500	10.450	15.950	Flat	Asphalt	14.00	Fair	Gravel	1.00	-	-	-	Hearing

Bridge Data

Link section No.	Sub-section No.	Bridge Name	Station (km)	Bridge Type	Bridge Length (m)	Span Length (m)	Carri- Side- age-way walk Width (m)	Bridge Damage		Approach Damage		Survey Method
								Width (m)	slab	Superst. Subst.	MKL Side (m)	
00-11A	1	BRIDGE 1	4.600	Permanent	10.0	1x10.0	6.50	0.50	-	-	-	Hearing
	2	BRIDGE 2	6.800	Permanent	10.0	1x10.0	6.50	0.50	-	-	-	Hearing
	3	BRIDGE 3	8.900	Permanent	10.0	1x10.0	6.50	0.50	-	-	-	Hearing
00-11B	1	BRIDGE 4	10.150	Permanent	10.0	1x10.0	6.50	0.50	-	-	-	Hearing
	2	BRIDGE 5	11.200	Permanent	10.0	1x10.0	14.00	1.00	-	-	-	Hearing
	3	BRIDGE 6	13.500	Permanent	10.0	1x10.0	14.00	1.00	-	-	-	Hearing
	4	BRIDGE 7	13.800	Permanent	15.0	1x15.0	14.00	1.00	-	-	-	Hearing
	5	BRIDGE 8	15.900	Permanent	15.0	1x15.0	14.00	1.00	-	-	-	Hearing

Province : Metro Manila
 Road Class : National

Road Number : 00-12
 Length : 11.880 km

Road Name : Manila North Road (McArthur Highway)

Road Data

Link section No.	Sub-section No.	Length (km)	Station		Terrain	Carriageway		Shoulder/Side-walk		Substandard Alignment		Disaster Potential		Survey Method
			From (km)	To (km)		Type	Width (m)	Condition	Type	Width (m)	Section	Type (m)	Type (m)	
00-12	1	4.910	-	4.910	Flat	Asphalt	12.40	Fair	Asphalt	2.60	-	-	-	Hearing
	2	5.300	4.910	10.210	Flat	Asphalt	14.00	Fair	Gravel	1.00	-	-	-	Hearing
	3	1.670	10.210	11.880	Flat	Asphalt	9.00	Fair	Gravel	0.50	-	-	-	Hearing

Bridge Data

Link section No.	Sub-section Bridge Name	Station (km)	Bridge Type	Bridge Length (m)	Span Length (m)	Carri- Side- age-way walk		Bridge Damage		Approach Damage		Survey Method
						Width (m)	Length (m)	Slab	Superst. Subst.	MNL Side (m)	Opp. Side (m)	
00-12	1 TALLABAN	1.550	Permanent	35.0	1x35.0	12.00	1.00	-	-	-	-	Hearing
	2 MAC ARTHUR	9.550	Permanent	100.0	1x 100	14.00	0.50	-	-	-	-	Hearing

Province : Metro Manila
 Road Class : National

Road Number : 00-21
 Road Name : R-10/Roxas Boulevard
 Length : 14.550 km (From 4.820 km to 19.370 km)

Road Data

Link section No.	Sub-section No.	Length (km)	Station		Terrain	Carriageway			Shoulder/side-walk			Substandard			Disaster Potential			Survey Method
			From (km)	To (km)		Type	Width (m)	Condition	Type	Width (m)	Alignment Section (m)	Type	Width (m)	Type	Width (m)	Type	Width (m)	
00-21	1	0.700	4.820	5.520	Flat	Concrete	16.20	Good	Concrete	2.00	-	-	-	-	-	-	-	Hearing
	2	6.100	5.520	11.620	Flat	Concrete	24.00	Good	Concrete	4.50	-	-	-	-	-	-	-	Hearing
	3	7.750	11.620	19.370	Flat	Concrete	28.00	Good	Concrete	2.00	-	-	-	-	-	-	-	Hearing

Bridge Data

Link section No.	Sub-section No.	Bridge Name	Station (km)	Bridge		Span Length (m)	Carri- Side- ageway walk			Bridge Damage			Approach Damage			Survey Method
				Type	Length (m)		Width (m)	Length (m)	Width (m)	Width (m)	Slab	Superst. Subst.	MNL Side (m)	Opp. Side (m)	Type	
00-21	2	BRIDGE 5	6.800	Permanent	65.0	1x65.0	24.00	2.00	-	-	-	-	-	-	-	Hearing
	2	BRIDGE 6	7.300	Permanent	50.0	1x50.0	24.00	2.00	-	-	-	-	-	-	-	Hearing
	2	BRIDGE 7	11.220	Permanent	155.0	5x31.0	20.00	2.00	-	-	-	-	-	-	-	Hearing

Province : Metro Manila
 Road Class : National

Road Number : 00-22
 Length : 9.400 km

Road Name : Manila-Cavite Coastal Road

Road Data

Link section No.	Sub-section No.	Length (km)	Station		Terrain	Carriageway		Shoulder/Side-walk		Substandard Alignment Section		Disaster Potential Section		Survey Method
			From (km)	To (km)		Type	Width (m)	Condition	Type	Width (m)	Type	Width (m)	Type	
00-22A	1	9.100	-	9.100	Flat	Concrete	41.00	Good	Concrete	1.50	-	-	-	Hearing
00-22B	1	0.300	9.100	9.400	Flat	Asphalt	12.00	Fair	Gravel	0.50	-	-	-	Hearing

Bridge Data

Link section No.	Sub-section No.	Bridge Name	Station (km)	Bridge		Span Length (m)	Carri- Side- age-way walk		Bridge Damage		Approach Damage		Survey Method
				Type	Length (m)		Width (m)	Width (m)	Slab	Superst. Subst.	MNL Side (m)	Opp. Side (m)	
00-22A	1	BRIDGE 1	4.000	Permanent	40.0	1x40.0	40.00	1.00	-	-	-	-	Hearing
	1	BRIDGE 2	7.500	Permanent	40.0	1x40.0	40.00	1.00	-	-	-	-	Hearing
	1	BRIDGE 3	7.700	Permanent	20.0	1x20.0	40.00	1.00	-	-	-	-	Hearing
	1	BRIDGE 4	9.000	Permanent	30.0	1x30.0	12.00	0.50	-	-	-	-	Hearing

Province : Metro Manila
Road Class : National

Road Number : 00-23
Length : 27.830 km

Road Name : Epifanio De Los Santos Avenue

Road Data

Link section No.	Sub-section No.	Length (km)	Station (km)		Terrain	Carriageway			Shoulder/SideWalk		Substandard Alignment Section (m)	Disaster Potential Section		Survey Method
			From	To		Type	Width (m)	Condition	Type	Width (m)		Type (m)	Type (m)	
00-23A	1	0.900	0.900	2.700	Flat	Concrete 38.00	Good	Concrete 3.00	-	-	-	-	-	Hearing
	2	1.800	0.900	2.700	Flat	Concrete 38.00	Good	Concrete 3.00	-	-	-	-	-	Hearing
00-23B	1	7.620	2.700	10.320	Flat	Concrete 38.00	Good	Concrete 3.00	-	-	-	-	-	Hearing
00-23C	1	3.400	10.320	13.720	Flat	Concrete 38.00	Good	Concrete 3.00	-	-	-	-	-	Hearing
00-23D	1	1.400	13.720	15.120	Flat	Concrete 38.00	Good	Concrete 3.00	-	-	-	-	-	Hearing
	2	1.450	15.120	16.570	Flat	Concrete 38.00	Good	Concrete 3.00	-	-	-	-	-	Hearing
00-23EX	1	3.108	16.570	19.678	Flat	Concrete 38.00	Good	Concrete 3.00	-	-	-	-	-	Hearing
00-23EY	1	1.632	19.678	21.310	Flat	Concrete 38.00	Good	Concrete 3.00	-	-	-	-	-	Hearing
00-23F	1	1.700	21.310	23.010	Flat	Concrete 38.00	Good	Concrete 3.00	-	-	-	-	-	Hearing
	1	2.420	-	2.420	Flat	Concrete 13.00	Good	Concrete 1.00	-	-	-	-	-	Hearing
00-23G	2	2.400	2.420	4.820	Flat	Concrete 38.00	Good	Concrete 3.00	-	-	-	-	-	Hearing

Bridge Data

Link section No.	Sub-section No.	Bridge Name	Station (km)	Bridge		Span		Carri- Side-		Bridge Damage		Approach Damage		Survey Method
				Type	Length (m)	Length (m)	Width (m)	Width (m)	Width (m)	Slab	Superst. Subst.	MNL Side	Opp. Side	
00-23A	2	BRIDGE 1	1.680	Permanent	20.0	1x20.0	36.00	2.00	-	-	-	-	-	Hearing
00-23B	1	BRIDGE 2	4.500	Permanent	10.0	1x10.0	24.00	2.00	-	-	-	-	-	Hearing
	1	GUADALUPE	7.200	Permanent	75.0	1x75.0	24.00	1.00	-	-	-	-	-	Hearing
00-23D	1	BRIDGE 3	14.600	Permanent	10.0	1x10.0	40.00	2.00	-	-	-	-	-	Hearing
00-23EX	1	BRIDGE 4	19.200	Permanent	15.0	1x15.0	24.00	2.00	-	-	-	-	-	Hearing
	1	BRIDGE 5	19.550	Permanent	15.0	1x15.0	24.00	2.00	-	-	-	-	-	Hearing
00-23G	2	BRIDGE 1	2.500	Permanent	15.0	1x15.0	11.00	1.50	-	-	-	-	-	Hearing
	2	BRIDGE 2	3.100	Permanent	90.0	1x90.0	11.00	1.50	-	-	-	-	-	Hearing
	2	BRIDGE 3	4.000	Permanent	70.0	1x70.0	11.00	1.50	-	-	-	-	-	Hearing
	2	BRIDGE 4	4.600	Permanent	55.0	1x55.0	11.00	1.50	-	-	-	-	-	Hearing

Province : Metro Manila
 Road Class : National

Road Number : 00-24
 Length : 5.700 km

Road Name : Ortigas Avenue

Road Data

Link section No.	Sub-section No.	Link section Length (km)	Station		Terrain	Carriageway		Shoulder/Side-walk		Substandard		Disaster Potential Section	Survey Method
			From (km)	To (km)		Type	Width (m)	Condition	Type	Width (m)	Alignment Section (m)		
00-24A	1	2.900	-	2.900	Flat	Concrete	18.00	Good	Concrete	2.00	-	-	Hearing
00-24B	1	2.800	2.900-	5.700	Flat	Concrete	7.00	Good	Concrete	0.50	-	-	Hearing

Bridge Data

Link section No.	Sub-section No.	Bridge Name	Station (km)	Bridge		Span		Carri- Side- ageway walk		Bridge Damage		Approach Damage		Survey Method
				Type	Length (m)	Length (m)	Width (m)	Width (m)	Slab	Superst. Subst.	MNL Side (m)	Opp. Side (m)		
00-24A	1	ROSARIO	2.900	Permanent	100.0	1x	100	15.00	1.00	-	-	-	-	Hearing
00-24B	1	BRIDGE 1	3.900	Permanent	105.0	5x	21.0	7.00	0.50	-	-	-	-	Hearing
	1	BRIDGE 2	5.700	Permanent	20.0	1x	20.0	7.00	0.50	-	-	-	-	Hearing

Province : Metro Manila
 Road Class : National

Road Number : 00-25
 Length : 6.950 km

Road Name : Aurora Boulevard-Marcos Highway

Road Data

Link section No.	Sub-section Length (km)	Station		Terrain	Carriageway		Shoulder/Side-walk		Substandard Alignment		Disaster Potential		Survey Method
		From (km)	To (km)		Type	Width (m)	Condition	Type	Width (m)	Type	Section (m)	Type (m)	
00-25A	1	2.500	-	2.500	Flat	Concrete	14.00	Good	Concrete	2.70	-	-	Hearing
	2	4.100	2.500-	6.600	Flat	Concrete	20.00	Fair	Gravel	2.50	-	-	Hearing
00-25B	1	0.350	6.600-	6.950	Flat	Concrete	12.00	Good	Gravel	2.00	-	-	Hearing

Bridge Data

Link section No.	Sub-section Bridge Name	Station (km)	Bridge Type	Bridge Length (m)	Span Length (m)	Carri- Side- age-way walk Width (m)	Bridge Damage		Approach Damage		Survey Method	
							Width Slab (m)	Superst. Subst. (m)	MNL Side (m)	Opp. Side (m)		
00-25A	1 BRIDGE 1	1.500	Permanent	10.0	1x10.0	14.00	2.50	-	-	-	-	Hearing
	2 BRIDGE 2	4.100	Permanent	110.0	5x22.0	15.00	1.00	-	-	-	-	Hearing

Province : Metro Manila
Road Class : National

Road Number : 00-26
Length : 21.480 km

Road Name : Quezon Boulevard-Commonwealth Avenue

Road Data

Link section No.	Sub- No.	Length (km)	Station		Terrain	Carriageway		Shoulder/Side- Alignment		Substandard Alignment		Disaster Potential Section		Survey Method
			From (km)	To (km)		Type	Width (m)	Condition	Type	Width (m)	Type (m)	Type (m)	Type (m)	
00-26A	1	1.500	-	1.500	Flat	Asphalt	25.00	Good	Concrete	2.00	-	-	-	Hearing
	2	2.550	1.500	4.050	Flat	Concrete	21.00	Good	Concrete	2.00	-	-	-	Hearing
	3	4.800	4.050	8.850	Flat	Asphalt	18.00	Good	Gravel	1.00	-	-	-	Hearing
00-26B	1	6.920	8.850	15.770	Flat	Asphalt	18.00	Fair	Gravel	1.00	-	-	-	Hearing
	2	5.710	15.770	21.480	Flat	Concrete	6.00	Fair	Gravel	1.00	-	-	-	Hearing

Bridge Data

Link section No.	Sub- No.	Bridge Name	Station (km)	Bridge		Span		Carri- Side- ageway walk		Bridge Damage		Approach Damage		Survey Method
				Type	Length (m)	Length (m)	Width (m)	Width (m)	Width (m)	Width (m)	Slab	Superst. Subst.	MNL Side (m)	
00-26A	2	BRIDGE 1	1.900	Permanent	10.0	1x10.0	20.00	0.50	-	-	-	-	-	Hearing
00-26B	2	BRIDGE 2	21.330	Permanent	10.0	1x10.0	6.00	0.50	-	-	-	-	-	Hearing

Province : Metro Manila
 Road Class : National

Road Number : 00-27
 Length : 10.200 km

Road Name : Fairview-Mentalben Road

Road Data

Link section No.	Sub-section No.	Length (km)	Station		Terrain	Carriageway		Shoulder/Sidewalk		Alignment Section (m)	Disaster Potential Section		Survey Method Type(m)
			From (km)	To (km)		Type	Width (m)	Condition	Type		Width (m)	Type	
00-27	1	8.200	8.200	8.200	Rolling	Gravel	5.50	Bad	Gravel	-	-	-	Hearing
	2	2.000	8.200	10.200	Flat	Concrete	15.00	Fair	Gravel	1.50	-	-	Hearing

Bridge Data

Link section No.	Sub-section No.	Bridge Name	Station (km)	Bridge Type	Bridge Length (m)	Span Length (m)	Side-aggeway walk Width (m)	Carriageway Width (m)	Bridge Damage		Approach Damage		Survey Method (m)
									Slab	Superst. Subst.	MNL Side (m)	Opp. Side (m)	
00-27	2	RODRIGUEZ BR.	8.600	Permanent	95.0	1x95.0	15.00	1.00	-	-	-	-	Hearing

Province : Metro Manila
 Road Class : National

Road Number : 00-28
 Length : 10.860 km

Road Name : Inelda Avenue

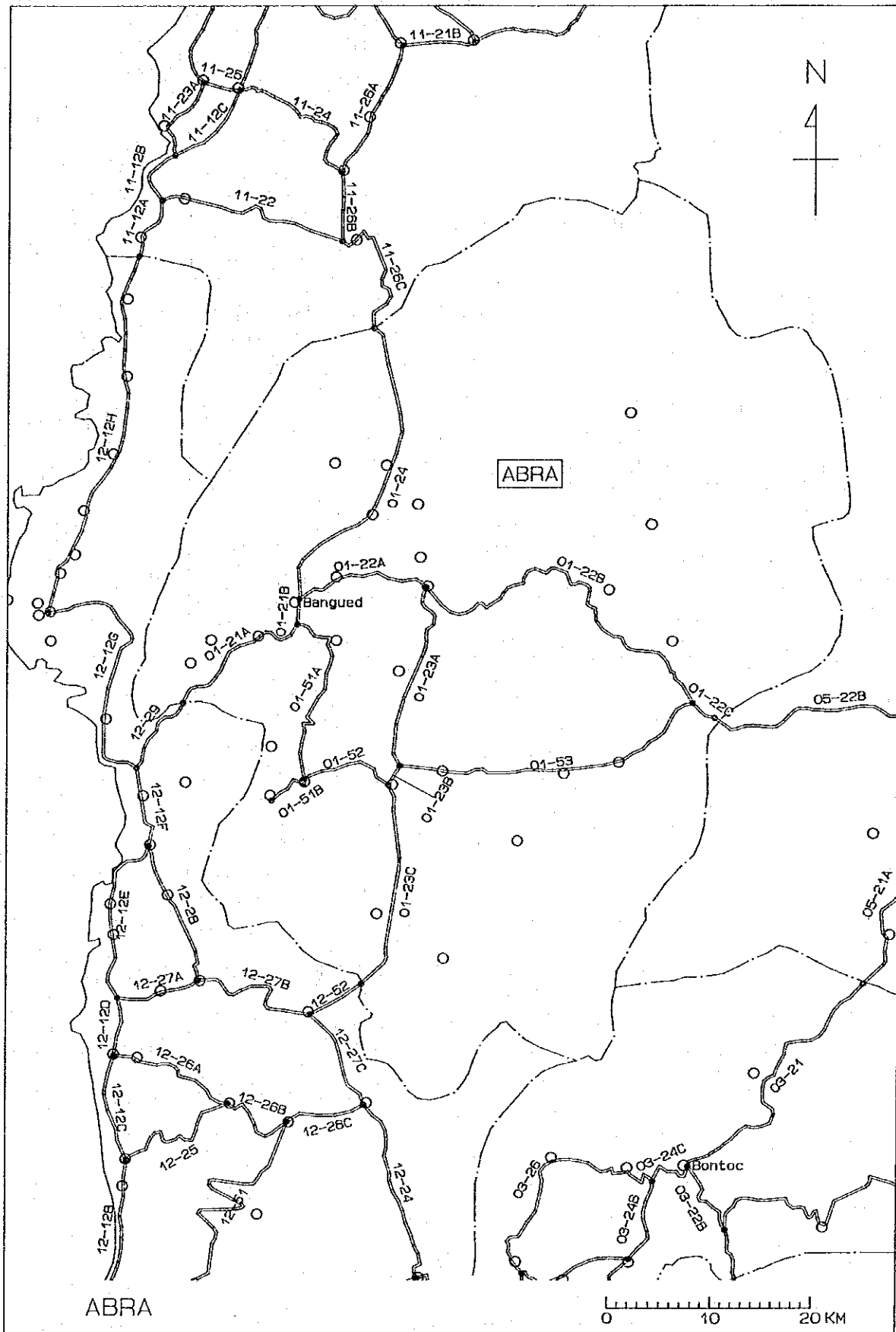
Road Data

Link section No.	Sub-section No.	Length (km)	Station		Terrain	Carriageway		Shoulder/Side-walk		Substandard Alignment		Disaster Potential Section		Survey Method
			From (km)	To (km)		Type	Width (m)	Condition	Type	Width (m)	Type	Width (m)	Type	
00-28A	1	4.190	-	4.190	Flat	Concrete	8.00	Good	Gravel	0.50	-	-	-	Hearing
00-28B	1	2.100	4.190	6.290	Flat	Concrete	11.00	Good	Gravel	0.50	-	-	-	Hearing
	2	1.880	6.290	8.170	Flat	Asphalt	6.10	Good	Gravel	0.50	-	-	-	Hearing
	3	2.690	8.170	10.860	Flat	Concrete	9.00	Good	Gravel	0.50	-	-	-	Hearing

Bridge Data

Link section No.	Sub-section No.	Bridge Name	Station (km)	Bridge Type	Bridge Length (m)	Span Length (m)	Carriageway Width (m)	Side-walk Width (m)	Bridge Damage		Approach Damage		Survey Method
									Slab	Superst. Subst.	MNL Side (m)	Opp. Side (m)	
00-28B	3	BRIDGE 1	10.860	Permanent	10.0	1x10.0	7.50	0.50	-	-	-	-	Hearing

ABRA (01)



Total Length of Surveyed Roads by Surface Type/Condition/Carriageway Width(W)

Province : Abra

Surface Type	Surface Condition	National Road			Provincial Road			Total					
		W<6.0m	W=6.0m	W>6.0m	Total	W<6.0m	W=6.0m	W>6.0m	Total	W<6.0m	W=6.0m	W>6.0m	Total
Concrete	Good	-	30.9	30.9	-	-	-	-	-	-	-	30.9	30.9
	Fair	-	1.3	1.3	-	-	-	-	-	-	-	1.3	1.3
	Bad	-	-	-	-	-	-	-	-	-	-	-	-
	Very Bad	-	-	-	-	-	-	-	-	-	-	-	-
	Total	-	32.2	32.2	-	-	-	-	-	-	-	32.2	32.2
Asphalt	Good	-	1.5	1.5	-	-	-	-	-	-	-	1.5	1.5
	Fair	-	1.0	1.0	-	-	-	-	-	-	-	1.0	1.0
	Bad	-	9.2	9.2	-	-	-	0.3	0.3	0.3	0.3	9.2	9.5
	Very Bad	-	-	-	-	-	-	-	-	-	-	-	-
	Total	-	11.7	11.7	-	-	-	0.3	0.3	0.3	0.3	11.7	12.0
Gravel	Good	-	-	-	-	-	-	-	-	-	-	-	-
	Fair	3.8	8.1	11.9	-	-	-	-	-	-	-	-	-
	Bad	19.8	1.0	20.8	6.5	20.9	27.4	10.3	29.0	39.3	10.3	29.0	39.3
	Very Bad	43.0	0.7	43.7	30.0	1.6	31.6	49.8	2.6	52.4	49.8	2.6	52.4
	Total	66.6	9.9	76.5	36.5	22.5	59.0	103.1	32.4	135.5	103.1	32.4	135.5
Earth	Good	-	-	-	-	-	-	-	-	-	-	-	-
	Fair	-	-	-	-	-	-	-	-	-	-	-	-
	Bad	-	-	-	-	-	-	-	-	-	-	-	-
	Very Bad	15.8	15.0	30.8	16.5	-	16.5	32.3	15.0	47.3	32.3	15.0	47.3
	Total	15.8	15.0	30.8	16.5	-	16.5	32.3	15.0	47.3	32.3	15.0	47.3
	Impassable	58.7	-	58.7	6.7	-	6.7	65.4	-	65.4	65.4	-	65.4
Total	Good	-	32.4	32.4	-	-	-	-	-	-	-	32.4	32.4
	Fair	3.8	10.4	14.2	6.5	20.9	27.4	10.3	31.3	41.6	10.3	31.3	41.6
	Bad	19.8	10.2	30.0	30.3	1.6	31.9	50.1	11.8	61.9	50.1	11.8	61.9
	Very Bad	58.8	15.7	74.5	16.5	-	16.5	75.3	15.7	91.0	75.3	15.7	91.0
	Impassable	58.7	-	58.7	6.7	-	6.7	65.4	-	65.4	65.4	-	65.4
	Total	141.0	68.8	209.9	60.0	22.5	82.5	201.0	91.3	292.4	201.0	91.3	292.4

Province : Abra
 Road Class : National
 Road Number : 01-21
 Road Name : Abra-Ilocos Sur Road
 Length : 22.215 km (From 386.045 km to 408.260 km)

Road Data

Link section No.	Sub- No.	Length (km)	Station (km)		Terrain	Carriageway		Shoulder/Side- Substandard		Disaster Potential		Survey Method
			From	To		Type	Width (m)	Type	Width (m)	Alignment Section (m)	Type (m)	
01-21A	1	0.632	386.045-386.677		Rolling	Concrete	6.10	Good	Gravel	0.50	-	Field
	2	2.965	386.677-389.642		Rolling	Concrete	6.10	Good	Gravel	1.00	CS 50	Field
	3	1.798	389.642-391.440		Rolling	Concrete	6.10	Good	Gravel	1.50	CS 100	Field
	4	4.035	391.440-395.475		Rolling	Concrete	6.10	Good	Gravel	1.00	-	Field
	5	2.236	395.475-397.711		Rolling	Concrete	6.10	Good	Gravel	1.50	-	Field
	6	0.778	397.711-398.489		Rolling	Asphalt	7.50	Good	Asphalt	0.50	-	Field
	7	0.194	398.489-398.683		Flat	Asphalt	6.10	Bad	Gravel	1.50	-	Field
	8	1.944	398.683-400.627		Flat	Concrete	6.10	U-const	Gravel	1.50	-	Field
	9	0.389	400.627-401.016		Mount's	Concrete	6.10	U-const	Gravel	1.50	-	Field
	10	0.778	401.016-401.794		Rolling	Concrete	6.10	U-const	Gravel	1.50	-	Field
	11	3.694	401.794-405.488		Rolling	Concrete	6.10	Good	Gravel	1.50	-	Field
	12	0.389	405.488-405.877		Flat	Asphalt	6.10	Fair	Gravel	1.50	-	Field
01-21B	1	0.227	405.877-406.104		Flat	Asphalt	6.10	Fair	Gravel	1.00	-	Field
	2	0.908	406.104-407.012		Flat	Concrete	6.10	U-const	Gravel	1.00	-	Field
	3	0.908	407.012-407.920		Flat	Asphalt	6.10	Bad	Gravel	1.50	-	Field
	4	0.340	407.920-408.260		Flat	Concrete	6.10	Good	Gravel	1.50	-	Field

Note : Disaster Type : CS=Cut Slope Damage, ES=Embankment Slope Damage, DF=Debris Flow, SR=Scour/Washout of Roadbed, FR=Flooding

Bridge Data

Link section No.	Sub- No.	Bridge Name	Station (km)	Bridge		Span		Carri- Side-		Bridge Damage		Approach Damage		Survey Method
				Type	Length (m)	Length (m)	Width (m)	Width (m)	Width (m)	Width (m)	Slab	Superst. Subst.	MNL Side (m)	
01-21A	5	ALINAYA	397.467	Permanent	137.1	3x45.7	7.00	0.02	-	-	-	-	-	Field
	8	BANCAG	400.163	Permanent	139.2	3x46.4	9.00	0.50	-	-	-	-	-	Field
	12	SINALANG	405.753	Permanent	338.8	4x84.7	6.00	0.40	-	-	-	-	-	Field

Province : Abra
 Road Class : National
 Road Number : 01-22
 Road Name : Abra-Kalinga Road
 Length : 82.452 km (From 408.300 km to 490.752 km)

Road Data

Link section No.	Sub-section No.	Length (km)	Station (km)		Terrain	Carriageway		Shoulder/Side-Substandard		Disaster Section	Potential Type (m)	Survey Method
			From	To		Type	Width (m)	Type	Width (m)			
01-22A	1	0.557	408.300	408.857	Flat	Concrete	6.10	Good	Gravel	0.50	-	Field
	2	0.650	408.857	409.507	Flat	Concrete	6.10	Good	Gravel	1.50	-	Field
	3	1.301	409.507	410.808	Rolling	Concrete	6.10	Fair	Gravel	1.00	-	Field
	4	4.737	410.808	415.545	Rolling	Concrete	6.10	Good	Gravel	1.00	-	Field
	5	0.557	415.545	416.102	Flat	Concrete	6.10	Good	Gravel	1.50	-	Field
	6	0.557	416.102	416.659	Flat	Concrete	6.10	Good	Gravel	1.00	-	Field
	7	0.372	416.659	417.031	Rolling	Asphalt	6.10	Bad	Gravel	0.50	-	Field
	8	0.372	417.031	417.403	Rolling	Asphalt	6.10	Fair	Gravel	1.00	-	Field
	9	0.836	417.403	418.239	Rolling	Asphalt	6.10	Bad	Gravel	1.00	-	Field
	10	0.743	418.239	418.982	Rolling	Asphalt	6.10	Good	Gravel	1.00	-	Field
	11	0.650	418.982	419.632	Rolling	Asphalt	6.10	Bad	Gravel	1.00	-	Field
	12	2.415	419.632	422.047	Rolling	Concrete	6.10	U-const	Gravel	1.50	-	Field
	13	1.115	422.047	423.162	Flat	Asphalt	6.10	Bad	Gravel	1.00	-	Field
	14	2.879	423.162	426.041	Rolling	Asphalt	6.10	Bad	Gravel	1.00	-	Field
	15	0.279	426.041	426.320	Rolling	Gravel	7.00	Bad	Gravel	1.00	-	Field
	16	0.928	426.320	427.248	Flat	Concrete	6.10	U-const	Gravel	1.00	-	Field
	17	2.230	427.248	429.478	Rolling	Gravel	8.00	Fair	Gravel	1.00	-	Field
	18	0.093	429.478	429.571	Rolling	Concrete	6.10	Good	Gravel	1.00	-	Field
	19	0.465	429.571	430.036	Rolling	Gravel	8.00	Bad	Gravel	1.00	-	Field
	20	0.464	430.036	430.500	Rolling	Gravel	8.00	Fair	Gravel	1.00	-	Field
01-22B	1	0.750	430.500	431.250	Rolling	Gravel	6.00	Fair	Gravel	1.00	-	Field
	2	0.750	431.250	432.000	Mount's	Gravel	6.00	V.Bad	Gravel	1.00	-	Field
	3	43.000	432.000	475.000	Mount's	Gravel	5.00	V.Bad	Gravel	1.00	-	Hearing
01-22C	4	14.252	475.000	489.252	Mount's	Earth	5.00	V.Bad	Gravel	1.00	-	Hearing
	1	1.500	489.252	490.752	Mount's	Earth	5.00	V.Bad	Gravel	1.00	-	Hearing

Bridge Data

Link section No.	Sub-section Bridge Name	Station (km)	Bridge		Carri- Side-		Bridge Damage		Approach Damage		Survey Method
			Type	Length (m)	Span Length (m)	ageway walk Width (m)	Slab Width (m)	Superst. Width (m)	Subst. Width (m)	MNL Side (m)	
01-22A	4 BALINGASA	415.238	Permanent	42.0	2x21.0	6.70	0.40	-	-	-	Field
	12 DON MARIANO MARCOS	420.740	Permanent	891.6	12x74.3	8.00	0.50	U-con.	U-con.	-	Field
	14 BALAIS	425.185	Bailey	42.0	3x14.0	3.80	-	-	-	-	Field

Province : Abra
 Road Class : National
 Road Number : 01-23
 Road Name : Abra-Cervantes Road
 Length : 60.270 km (From 427.527 km to 487.797 km)

Road Data

Link section No.	Sub-section No.	Length (km)	Station (km)		Terrain	Carrigeway			Shoulder/Side-wk		Substandard Alignment		Disaster Potential Section		Survey Method
			From	To		Type	Width (m)	Condition	Type	Width (m)	Section (m)	Type (m)	Type (m)		
01-23A	1	1.500	427.527	429.027	Rolling	Gravel	8.00	Fair	-	-	-	-	-	-	Field
	2	0.300	429.027	429.327	Rolling	Gravel	6.00	Bad	-	-	-	-	-	-	Field
	3	3.200	429.327	432.527	Rolling	Gravel	6.00	Fair	-	-	-	-	-	-	Field
	4	3.770	432.527	436.297	Rolling	Gravel	5.00	Fair	-	-	-	-	-	-	Hearing
	5	8.000	436.297	444.297	Mount's			No Road	-	-	-	-	-	-	Hearing
01-23B	1	15.000	444.297	459.297	Mount's	Earth	1.00	Impass.	-	-	-	-	-	-	Hearing
01-23C	1	15.000	459.297	474.297	Mount's	Earth	8.00	V.Bad	-	-	-	-	-	-	Hearing
	2	13.500	474.297	487.797	Mount's	Earth	1.00	Impass.	-	-	-	-	-	-	Hearing

Bridge Data

Link section No.	Sub-section No.	Bridge Name	Station (km)	Bridge Type	Bridge Length (m)	Span Length (m)	Carri- Side- age-way walk Width (m)	Bridge Damage Width (m)	Slab Superst. Subst. (m)	MNL Side (m)	Opp. Side (m)	Approach Damage	Survey Method
01-23A	3	BAAY	429.655	Permanent	98.0	7x14.0	6.70	0.40	High	High	High	High	20 Field

Province : Abra
 Road Class : National
 Road Number : 01-24
 Road Name : Abra-Ilocos Norte Road
 Length : 44.923 km (From 408.202 km to 453.125 km)

Road Data

Link section No.	Sub- No.	Length (km)	Station		Terrain	Carriageway		Shoulder/Side-walk		Substandard Alignment		Disaster Potential Section		Survey Method
			From (km)	To (km)		Type	Width (m)	Condition	Type	Width (m)	Type	Section (m)	Type (m)	
01-24	1	0.200	408.202	408.402	Flat	Concrete	10.00	Good	Concrete	2.50	-	-	-	Field
	2	0.500	408.402	408.902	Flat	Concrete	6.10	Good	Gravel	0.50	-	-	-	Field
	3	2.200	408.902	411.102	Flat	Asphalt	6.10	Bad	Gravel	1.00	-	-	-	Field
	4	11.800	411.102	422.902	Flat	Gravel	5.00	Bad	-	-	-	-	-	Hearing
	5	8.000	422.902	430.902	Rolling	Gravel	5.00	Bad	-	-	-	-	-	Hearing
	6	22.223	430.902	453.125	Mount's	-	-	No Road	-	-	-	-	-	Hearing

Bridge Data

Link section No.	Sub- No.	Bridge Name	Station (km)	Bridge		Span		Carri- Side- ageway		Bridge Damage		Approach Damage		Survey Method
				Type	Length (m)	Length (m)	Width (m)	Width (m)	Width Slab (m)	Superst. (m)	Subst. (m)	MHL Side (m)	Opp. Side (m)	
01-24	5	TUDAY	423.033	Permanent	12.0	1x12.0	9.00	0.50	-	-	-	-	-	Hearing

Province : Abra
 Road Class : Provincial
 Road Number : 01-51
 Length : 32.500 km (From 405.877 km to 438.377 km)
 Road Name : Bangued-Panarrubia-Manabo Road

Road Data

Link section No.	Sub-section No.	Length (km)	Station		Terrain	Carriageway		Shoulder/Side-walk		Substandard Alignment Section (m)	Disaster Potential Section		Survey Method
			From (km)	To (km)		Type	Width (m)	Condition	Type		Width (m)	Type (m)	
01-51A	1	0.300	405.877	406.177	Rolling	Asphalt	5.00	Bad	Gravel	0.50	-	-	Field
	2	2.900	406.177	409.077	Flat	Gravel	8.00	Fair	-	-	-	-	Field
	3	0.800	409.077	409.877	Mount's	Gravel	8.00	Fair	-	-	-	-	Field
	4	0.400	409.877	410.277	Rolling	Gravel	6.00	Fair	-	-	-	-	Field
	5	1.000	410.277	411.277	Rolling	Gravel	6.00	Fair	-	-	-	-	Field
	6	0.800	411.277	412.077	Rolling	Gravel	6.00	Fair	-	-	-	-	Field
	7	0.700	412.077	412.777	Flat	Gravel	7.00	Fair	-	-	-	-	Field
	8	0.200	412.777	412.977	Rolling	Gravel	5.00	Fair	-	-	-	-	Field
	9	2.500	412.977	415.477	Mount's	Gravel	6.00	Fair	-	-	CS 1000	-	Field
	10	2.100	415.477	417.577	Rolling	Gravel	6.00	Fair	-	-	-	-	Field
	11	1.000	417.577	418.577	Rolling	Gravel	5.00	Fair	-	-	-	-	Field
	12	1.000	418.577	419.577	Mount's	Gravel	6.00	Bad	-	-	-	-	Field
	13	0.900	419.577	420.477	Rolling	Gravel	5.00	Bad	-	-	-	-	Field
	14	2.200	420.477	422.677	Rolling	Gravel	5.00	Bad	-	-	CS 200	-	Field
	15	1.000	422.677	423.677	Rolling	Earth	4.00	Impass.	-	-	CS 200	-	Field
	16	0.200	423.677	423.877	Mount's	Earth	5.00	Fair	-	-	CS 200	-	Field
	17	0.800	423.877	424.677	Rolling	Gravel	5.00	Fair	-	-	-	-	Field
	18	3.400	424.677	428.077	Rolling	Gravel	5.00	Bad	-	-	-	-	Field
	19	3.200	428.077	431.277	Rolling	Gravel	6.00	Fair	-	-	CS 2000	-	Field
	20	0.600	431.277	431.877	Rolling	Gravel	7.00	Bad	-	-	-	-	Field
	21	0.500	431.877	432.377	Mount's	Gravel	7.00	Fair	-	-	-	-	Field
01-51B	1	6.000	432.377	438.377	Mount's	Gravel	6.00	Fair	-	-	-	-	Hearing

Note : Disaster Type : CS=Cut Slope Damage, ES=Embankment Slope Damage, DF=Debris Flow, SR=Scour/Washout of Roadbed, FR=Flooding

Bridge Data

Link section No.	Sub-section Bridge Name	Station (km)	Bridge		Span Length (m)	Carri- Side- ageway walk		Bridge Damage		Survey Method
			Type	Length (m)		Width (m)	Width (m)	MNL Side (m)	Opp. Side (m)	
01-51A	2 BRIDGE 1	406.877	Permanent	40.0	1x30.0	6.70	0.40	-	-	Field
	5 BRIDGE 2	411.277	Permanent	30.0	3x10.0	6.70	0.40	-	-	Field
	9 BRIDGE 3	413.277	Permanent	42.0	7x 6.0	7.00	0.40	-	-	Field
	13 BRIDGE 4	419.877	Permanent	10.0	1x10.0	7.00	0.40	-	-	Field
	15 BRIDGE 5	423.377	Bailey	18.0	1x18.0	3.50	-	-	-	Field
	18 BRIDGE 6	425.277	Permanent	30.0	1x30.0	6.00	-	-	-	Field
	18 BRIDGE 7	425.777	Permanent	50.0	1x50.0	6.00	-	-	-	Field
	18 BRIDGE 8	427.877	Permanent	15.0	1x15.0	6.00	-	-	-	Field
	19 BRIDGE 9	431.177	Permanent	50.0	1x30.0	6.00	-	-	-	Field

Province : Abra Road Number : 01-52 Road Name : Villaviciosa-Callao Road
 Road Class : Provincial Length : 6.000 km (From 432.377 km to 438.377 km)

Road Data

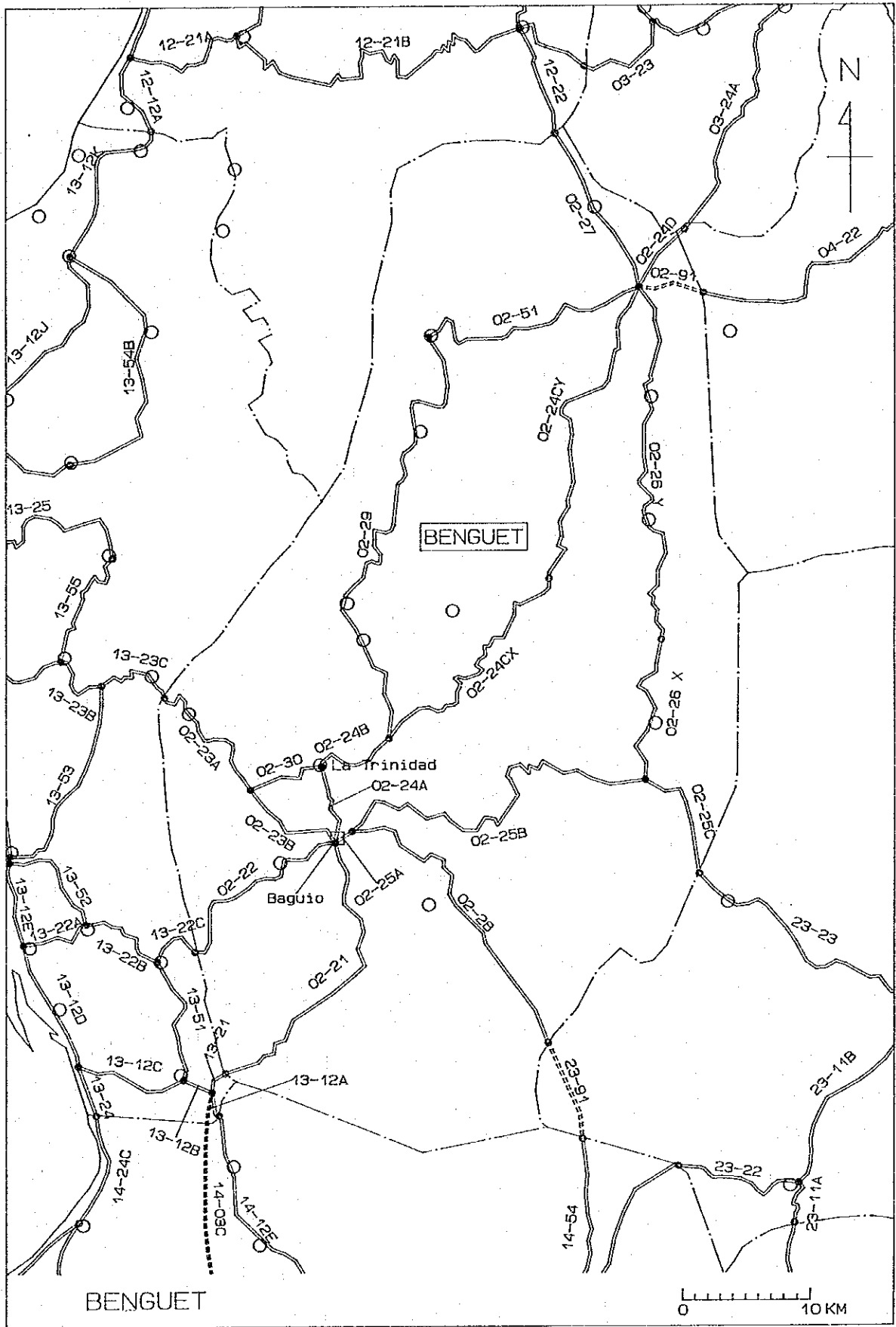
Link section No.	Sub-section Length (km)	Station		Terrain	Carriageway		Shoulder/Sidekw		Substandard Alignment Section (m)	Disaster Potential Section		Survey Method
		From (km)	To (km)		Type	Width (m)	Type	Width (m)		Type (m)	Type (m)	
01-52	1	0.300	432.377-432.677	Rolling	Earth	4.00	V.Bad					Hearing
	2	5.700	432.677-438.377	Mount's	Earth	1.00	Impass					Hearing

Province : Abra Road Number : 01-53 Road Name : Manabo-Daguioman-Malibcong Road
 Road Class : Provincial Length : 44.000 km (From 444.297 km to 488.297 km)

Road Data

Link section No.	Sub-section Length (km)	Station		Terrain	Carriageway		Shoulder/Sideek		Substandard Alignment		Disaster Potential		Survey Method
		From (km)	To (km)		Type	Width (m)	Type	Width (m)	Type	Section (m)	Type	Section (m)	
01-53	4.500	444.297	448.797	Rolling	Gravel	5.00	Fair	-	-	-	-	-	Hearing
	15.000	448.797	463.797	Rolling	Gravel	5.00	Bad	-	-	-	-	-	Hearing
	4.000	463.797	467.797	Rolling	Earth	4.00	V.Bad	-	-	-	-	-	Hearing
	8.500	467.797	476.297	Mount's	Gravel	5.00	Bad	-	-	-	-	-	Hearing
	12.000	476.297	488.297	Mount's	Earth	4.00	V.Bad	-	-	-	-	-	Hearing

BENGUET (02)



Total Length of Surveyed Roads by Surface Type/Condition/Carriageway Width(W)

Province : Benguet

Surface Type	Surface Condition	National Road			Provincial Road			Total					
		W<6.0m	W=6.0m	W>6.0m	Total	W<6.0m	W=6.0m	W>6.0m	Total	W<6.0m	W=6.0m	W>6.0m	Total
Concrete	Good	1.4	85.2	86.6	-	-	-	-	-	1.4	85.2	86.6	-
	Fair	-	14.6	14.6	-	-	-	-	-	-	14.6	14.6	-
	Bad	-	4.0	4.0	-	-	-	-	-	-	4.0	4.0	-
	Very Bad	-	-	-	-	-	-	-	-	-	-	-	-
	Total	1.4	103.8	105.2	-	-	-	-	-	1.4	103.8	105.2	-
Asphalt	Good	0.5	19.1	19.6	-	-	-	-	-	0.5	19.1	19.6	-
	Fair	0.3	28.2	28.5	-	-	-	-	-	0.3	28.2	28.5	-
	Bad	22.7	10.8	33.6	-	-	-	-	-	22.7	10.8	33.6	-
	Very Bad	7.2	0.3	7.5	-	-	-	-	-	7.2	0.3	7.5	-
	Total	30.7	58.4	89.1	-	-	-	-	-	30.7	58.4	89.1	-
Gravel	Good	-	-	-	-	-	-	-	-	-	-	-	-
	Fair	64.3	2.3	66.6	-	-	-	-	-	64.3	2.3	66.6	-
	Bad	94.1	0.9	95.0	-	-	-	-	-	94.1	0.9	95.0	-
	Very Bad	70.5	1.6	72.1	-	-	-	-	-	70.5	1.6	72.1	-
	Total	228.8	4.9	233.7	-	-	-	-	-	228.8	4.9	233.7	-
Earth	Good	-	-	-	-	-	-	-	-	-	-	-	-
	Fair	-	-	-	-	-	-	-	-	-	-	-	-
	Bad	-	-	-	-	-	-	-	-	-	-	-	-
	Very Bad	-	-	-	-	-	-	-	-	-	-	-	-
	Total	-	-	-	22.5	-	-	22.5	22.5	-	-	22.5	-
	Impassable	27.4	-	27.4	6.0	-	-	6.0	6.0	33.4	-	33.4	-
Total	Good	1.9	104.2	106.1	-	-	-	-	-	1.9	104.2	106.1	-
	Fair	64.6	45.1	109.7	-	-	-	-	-	64.6	45.1	109.7	-
	Bad	116.8	15.8	132.6	-	-	-	-	-	116.8	15.8	132.6	-
	Very Bad	77.6	1.9	79.5	22.5	-	-	22.5	22.5	100.1	1.9	102.0	-
	Impassable	27.4	-	27.4	6.0	-	-	6.0	6.0	33.4	-	33.4	-
	Total	288.4	167.0	455.5	28.5	-	-	28.5	316.9	167.0	484.0	-	

Province : Benguet
 Road Class : National
 Road Number : 02-21
 Road Name : Kennon Road
 Length : 34.263 km (From 215.165 km to 249.428 km)

Road Data

Link section No.	Sub-Section No.	Length (km)	Station		Terrain	Carriageway		Shoulder/Side-walk		Substandard Alignment Section		Disaster Potential Section		Survey Method
			From (km)	To (km)		Type	Width (m)	Condition	Type	Width (m)	Type (m)	Type (m)	Type (m)	
02-21	1	3.000	215.165	218.165	Rolling	Asphalt	6.70	Fair	Gravel	0.50	-	CS 700	ES 400	Field
	2	0.690	218.165	218.855	Rolling	Concrete	6.70	Good	Gravel	0.50	-	CS 300	ES 400	Field
	3	0.900	218.855	219.755	Rolling	Asphalt	6.70	Good	Gravel	0.50	-	CS 100	ES 200	Field
	4	0.300	219.755	220.055	Rolling	Asphalt	6.70	Good	Gravel	1.00	-	-	-	Field
	5	1.200	220.055	221.255	Rolling	Asphalt	6.70	Good	Gravel	0.50	-	CS 200	ES 300	Field
	6	0.550	221.255	221.805	Mount's	Concrete	6.70	Good	Gravel	1.00	-	-	-	Field
	7	1.050	221.805	222.855	Mount's	Concrete	6.70	Bad	Gravel	0.50	-	ES 100	-	Field
	8	1.300	222.855	224.155	Mount's	Asphalt	6.70	Bad	Gravel	0.50	-	CS 300	ES 100	Field
	9	1.600	224.155	225.755	Mount's	Asphalt	6.70	Good	Gravel	1.00	-	CS 900	ES 300	Field
	10	1.600	225.755	227.355	Mount's	Asphalt	6.70	Fair	Gravel	0.50	-	CS 1500	ES 500	Field
	11	0.400	227.355	227.755	Mount's	Concrete	6.70	Fair	Gravel	0.50	-	CS 100	ES 50	Field
	12	2.100	227.755	229.855	Mount's	Asphalt	6.70	Fair	Gravel	0.50	-	CS 600	ES 400	Field
	13	1.300	229.855	231.155	Mount's	Asphalt	6.70	Fair	Gravel	1.00	-	CS 700	ES 600	Field
	14	6.540	231.155	237.695	Mount's	Asphalt	6.70	Good	Gravel	1.00	-	CS 4500	ES 2000	Field
	15	0.550	237.695	238.245	Mount's	Asphalt	6.70	Fair	Gravel	0.50	-	-	-	Field
	16	2.300	238.245	240.545	Mount's	Concrete	6.70	Fair	Gravel	1.00	-	CS 1000	ES 100	Field
	17	4.000	240.545	244.545	Mount's	Asphalt	6.70	Good	Gravel	0.50	-	CS 1500	ES 500	Field
	18	4.483	244.545	249.028	Mount's	Asphalt	6.70	Fair	Gravel	0.50	-	CS 1000	ES 300	Field
	19	0.400	249.028	249.428	Mount's	Asphalt	7.50	Good	Gravel	0.50	-	-	-	Field

Note : Disaster Type : CS=Cut Slope Damage, ES=Embankment Slope Damage, DF=Debris Flow, SR=Scour/Washout of Roadbed, FR=Flooding

Bridge Data

Link section No.	Sub-Section No.	Bridge Name	Station (km)	Bridge		Span		Carri- Side-		Bridge Damage		Approach Damage		Survey Method
				Type	Length (m)	Length (m)	Width (m)	Width (m)	Slab	Superst. Subst.	MNL Side	Opp. Side		
02-21	1	CAMP 1	216.134	Permanent	223.5	3x74.5	6.10	0.40	-	-	-	-	-	Field
	1	KLONDYKES	217.708	Permanent	10.0	1x10.0	6.10	0.40	-	-	-	-	-	Field
	5	TWIN PEAKS	221.107	Permanent	9.7	1x 9.7	6.10	0.40	-	-	-	-	-	Field
	6	COLORADO	221.530	Permanent	18.6	1x18.6	6.10	0.40	-	-	-	-	-	Field
	8	CAMP 3	223.878	Permanent	13.2	1x13.2	6.10	0.40	-	-	-	-	-	Field
	10	ANPASIT	227.089	Permanent	13.0	1x13.0	6.10	0.40	-	-	-	-	-	Field
	12	CAMP 3 #3	227.784	Permanent	145.0	5x29.0	6.10	0.40	-	-	-	-	-	Field
	12	ATAKI	229.286	Permanent	21.8	1x21.8	6.10	0.40	-	-	-	-	-	Field
	13	CAMP 4 #1	230.611	Permanent	118.8	2x59.4	6.10	0.40	-	-	-	-	-	Field
	13	CAMP 4 #2	231.127	Permanent	10.0	1x10.0	6.10	0.40	-	-	-	-	-	Field
	14	PUGO	231.799	Permanent	61.6	2x30.8	6.10	0.40	-	-	-	-	-	Field
	14	MARANAL	232.459	Permanent	61.6	2x30.8	6.10	0.40	-	-	-	-	-	Field

Bridge Data

Link section No.	Sub-section No.	Bridge Name	Station (km)	Bridge Type	Bridge Length (m)	Span Length (m)	Carri- Side- age way Walk		Bridge Damage		Approach Damage		Survey Method
							Width (m)	Width (m)	Slab	Superst.	Subst.	MWL Side	
02-21	14	CAMP 4 #3	233.368	Permanent	10.8	1x10.8	6.10	0.40	-	-	-	-	Field
	14	CAMP 4 #4	235.274	Permanent	8.3	1x 8.3	6.10	0.40	-	-	-	-	Field
	14	CAMP 5 #1	235.274	Permanent	44.5	1x44.5	6.10	0.40	-	-	-	-	Field
	14	CAMP 5 #2	235.465	Permanent	44.3	1x44.3	6.10	0.40	U-con.	U-con.	U-con.	50	Field
	14	CAMP 6	236.940	Permanent	111.2	4x27.8	6.10	0.40	-	-	-	-	Field
	15	DEMONSTRATION BRIDGE	238.212	Permanent	36.0	3x12.0	6.10	0.40	-	-	-	-	Field
18	BRIDGE 1	244.875	Permanent	15.4	1x15.4	6.70	0.40	-	-	-	-	-	Field
	BRIDGE 2	245.848	Permanent	8.0	1x 8.0	6.70	0.40	-	-	-	-	-	Field

Province : Benguet Road Number : 02-22 Road Name : Marcos Highway
 Road Class : National Length : 24.497 km (From 260.098 km to 284.595 km)

Road Data

Link section No.	Sub-section No.	Length (km)	Station (km)		Terrain	Carrigeaway		Shoulder/Sidekw		Substandard Alignment Section (m)	Disaster Potential Section		Survey Method
			From	To		Type	Width (m)	Type	Width (m)		Type (m)	Type (m)	
02-22	1	0.300	260.098	260.398	Mount's	Asphalt	6.70	V.Bad	Gravel	1.00	-	-	Field
	2	7.400	260.398	267.798	Mount's	Concrete	6.70	Good	Earth	1.00	-	ES 1000	Field
	3	1.000	267.798	268.798	Mount's	Concrete	6.70	Good	Gravel	1.00	-	-	Field
	4	3.147	268.798	271.945	Mount's	Concrete	6.70	Good	Gravel	1.00	-	ES 500	Field
	5	4.200	271.945	276.145	Mount's	Concrete	6.70	Fair	Gravel	1.00	-	ES 1000	Field
	6	2.000	276.145	278.145	Rolling	Concrete	6.70	Bad	Gravel	1.00	-	ES 800	Field
	7	2.950	278.145	281.095	Mount's	Concrete	6.70	Good	Gravel	1.00	-	-	Field
	8	2.700	281.095	283.795	Mount's	Concrete	6.70	Good	Gravel	1.00	-	-	Field
	9	0.800	283.795	284.595	Mount's	Gravel	7.00	Fair	Concrete	1.50	-	-	Field

Note : Disaster Type : CS=Cut Slope Damage, ES=Embankment Slope Damage, DF=Debris Flow, SR=Scour/Washout of Roadbed, FR=Flooding

Bridge Data

Link section No.	Sub-section No.	Bridge Name	Station (km)	Bridge		Span		Carri- Side- ageway walk		Bridge Damage		Approach Damage		Survey Method
				Type	Length (m)	Length (m)	Width (m)	Width (m)	Slab	Superst. Subst.	MNL Side (m)	Opp. Side (m)		
02-22	6	BADIWAN BRIDGE	278.000	Permanent	45.0	3x15.0	6.70	0.40	-	-	-	-	-	Field

Province : Benguet
 Road Class : National
 Road Number : 02-23
 Road Name : Neguilian Road
 Length : 24.845 km (From 280.785 km to 305.630 km)

Road Data

Link section No.	Sub-section No.	Length (km)	Station		Terrain	Carriageway		Shoulder/Side-walk		Substandard Alignment		Disaster Potential		Survey Method
			From (km)	To (km)		Type	Width (m)	Condition	Type	Width (m)	Type (m)	Type (m)	Type (m)	
02-23A	1	1.100	280.785	281.885	Mount's	Asphalt	6.10	Good	Gravel	0.50	-	-	-	Field
	2	7.700	281.885	289.585	Mount's	Asphalt	6.10	Fair	Gravel	0.50	CS 100	ES 1000	-	Field
	3	3.345	289.585	292.930	Mount's	Asphalt	6.10	Bad	Earth	0.50	CS 500	ES 800	-	Field
	4	3.500	292.930	296.430	Mount's	Asphalt	6.10	Bad	Gravel	1.00	CS 3500	ES 2500	-	Field
	5	1.600	296.430	298.030	Mount's	Asphalt	6.10	Bad	Gravel	0.50	CS 1000	ES 1500	-	Field
02-23B	1	0.500	298.030	298.530	Mount's	Asphalt	6.10	Fair	Gravel	1.00	-	-	-	Field
	2	2.600	298.530	301.130	Mount's	Asphalt	6.70	Good	Gravel	1.00	ES 50	-	-	Field
	3	3.200	301.130	304.330	Mount's	Asphalt	6.70	Good	Gravel	1.00	-	-	-	Field
	4	0.500	304.330	304.830	Mount's	Asphalt	7.00	Bad	Asphalt	0.50	-	-	-	Field
	5	1.000	304.830	305.830	Mount's	Asphalt	8.00	Fair	Concrete	1.50	-	-	-	Field

Note : Disaster Type : CS=Gut Slope Damage, ES=Embankment Slope Damage, DF=Debris Flow, SR=Scour/Washout of Roadbed, FR=Flooding

Bridge Data

Link section No.	Sub-section No.	Bridge Name	Station (km)	Bridge		Span		Carri- Side- ageway walk		Bridge Damage		Approach Damage		Survey Method
				Type	Length (m)	Length (m)	Width (m)	Width (m)	Width (m)	Slab	Superst. Subst.	MNL Side (m)	Opp. Side (m)	
02-23B	1	IRISAN BRIDGE	298.065	Permanent	19.0	1x19.0	6.80	0.40	-	-	-	-	-	Field

Province : Benguet
 Road Class : National
 Road Number : 02-24
 Road Name : Baguio-Bontoc Road
 Length : 90.574 km (From 250.570 km to 341.144 km)

Road Data

Link section No.	Sub- No.	Length (km)	Station		Terrain	Carriageway		Shoulder/Sideak		Substandard Alignment Section (m)	Disaster Potential Section		Survey Method
			From (km)	To (km)		Type	Width (m)	Condition	Type		Width (m)	Type (m)	
02-24A	1	0.455	250.570	251.025	Mount's	Concrete	15.00	Good	Concrete	1.50	-	-	Field
	2	0.875	251.025	251.900	Mount's	Concrete	6.70	Good	Concrete	1.50	-	-	Field
	3	1.220	251.900	253.120	Rolling	Concrete	6.70	Fair	Concrete	1.00	-	-	Field
	4	0.550	253.120	253.670	Rolling	Concrete	6.70	Fair	Asphalt	1.00	-	-	Field
	5	1.280	253.670	254.950	Flat	Concrete	6.70	Fair	Concrete	1.00	-	-	Field
	6	1.270	254.950	256.220	Flat	Concrete	6.70	Fair	Asphalt	1.50	-	-	Field
02-24B	1	0.820	256.220	257.040	Mount's	Concrete	6.70	Fair	Concrete	0.50	-	-	Field
	2	1.760	257.040	258.800	Rolling	Concrete	6.70	Good	Gravel	1.00	-	-	Field
	3	1.340	258.800	260.140	Mount's	Concrete	6.70	Good	Gravel	0.50	-	-	Field
	4	1.460	260.140	261.600	Mount's	Concrete	6.70	Good	Gravel	0.50	CS 1000	ES 300	Field
02-24CX	5	1.130	261.600	262.730	Mount's	Concrete	6.70	Good	Earth	0.50	-	-	Field
	1	3.730	262.730	266.460	Mount's	Concrete	6.70	Good	Earth	0.50	CS 3000	ES 1000	Field
	2	9.140	266.460	275.600	Mount's	Concrete	6.70	Good	Gravel	0.50	CS 1900	ES 4000	Field
	3	6.900	275.600	282.500	Mount's	Concrete	6.70	Good	Gravel	0.50	CS 6500	ES 4000	Field
	4	3.720	282.500	286.220	Mount's	Gravel	5.00	V.Bad	Gravel	0.50	CS 600	ES 500	Field
	5	0.980	286.220	287.200	Mount's	Concrete	6.70	Good	Gravel	0.50	CS 3500	ES 1000	Field
02-24CY	6	7.300	287.200	294.500	Mount's	Gravel	5.00	V.Bad	Gravel	0.50	CS 2000	ES 1000	Field
	7	4.400	294.500	298.900	Mount's	Gravel	5.00	Bad	Gravel	1.00	CS 3000	ES 1000	Field
	8	0.300	298.900	299.200	Mount's	Concrete	6.70	Good	Gravel	1.00	-	-	Field
	9	2.350	299.200	301.550	Mount's	Gravel	5.00	V.Bad	Gravel	1.00	CS 500	ES 500	Field
	10	1.080	301.550	302.630	Mount's	Gravel	5.00	Bad	Gravel	1.00	CS 900	ES 700	Field
	11	5.510	302.630	308.140	Mount's	Concrete	6.70	Good	Gravel	1.00	CS 4000	ES 1500	Field
	12	0.490	308.140	308.630	Mount's	Concrete	6.10	Good	Gravel	1.00	CS 490	ES 490	Field
	13	0.300	308.630	308.930	Mount's	Gravel	5.00	Bad	Gravel	1.00	CS 300	ES 300	Field
	14	2.570	308.930	311.500	Mount's	Concrete	6.70	Fair	Gravel	1.00	-	-	Field
	15	0.960	311.500	312.460	Mount's	Concrete	6.70	Bad	Gravel	1.00	CS 960	ES 500	Field
02-24D	16	11.800	312.460	324.260	Mount's	Concrete	6.70	Good	Gravel	0.50	CS 7000	ES 1000	Field
	17	4.230	324.260	328.490	Rolling	Concrete	6.70	Good	Gravel	0.50	CS 2000	ES 2000	Field
	18	4.566	328.490	333.056	Mount's	Concrete	6.70	Good	Gravel	0.50	-	-	Field
	1	1.700	333.056	334.756	Mount's	Concrete	6.70	Good	Gravel	0.50	-	-	Field
2	3.000	334.756	337.756	Rolling	Concrete	6.70	Good	Earth	0.50	-	-	Field	
3	0.700	337.756	338.456	Rolling	Concrete	6.70	U-const	Gravel	0.50	-	-	Field	
4	0.700	338.456	339.156	Mount's	Concrete	6.70	Good	Gravel	0.50	-	-	Field	
5	1.988	339.156	341.144	Mount's	Concrete	6.70	U-const	Gravel	0.50	-	-	Field	

Note : Disaster Type : CS=Cut Slope Damage, ES=Embankment Slope Damage, DF=Debris Flow, SR=Scour/Washout of Roadbed, FR=Flooding

Bridge Data

Link section No.	Sub-section No.	Bridge Name	Station (km)	Bridge Type	Bridge Length (m)	Span Length (m)	Carri- age way Width (m)	Side- Walk Width (m)	Bridge Damage			Approach Damage		Survey Method	
									Slab	Superst.	Subst.	MNL Side (m)	Opp. Side (m)		
02-24A	6	IRRIGATION BRIDGE	255.954	Permanent	16.6	1x16.6	8.00	0.50	-	-	-	-	-	-	Field
	6	BALILI BRIDGE	256.171	Permanent	45.6	1x45.6	6.10	0.50	-	-	-	-	-	-	Field
02-24CY	11	BANGINGUEY	304.500	Permanent	7.0	1x 7.0	6.10	0.50	-	-	-	-	-	-	Field

Province : Benguet Road Number : 02-25 Road Name : Baguio-Ambuklao-N. Vizcaya Road
 Road Class : National Length : 69.970 km (From 250.000 km to 319.970 km)

Road Data

Link section No.	Sub- No.	Length (km)	Station (km)		Terrain	Carriageway		Shoulder/Sideuk		Substandard Alignment Section (m)	Disaster Potential Section		Survey Method	
			From	To		Type	Width (m)	Type	Width (m)		Type (m)	Type (m)		
02-25A	1	1.300	250.000-251.300		Rolling	Asphalt	8.00	Good	Concrete	1.00	-	-	Field	
	2	0.950	251.300-252.250		Mount's	Asphalt	8.00	Good	Concrete	1.00	-	-	Field	
	02-25B	1	1.402	252.250-253.652		Mount's	Concrete	5.00	Good	Earth	0.50	-	-	Field
		2	0.950	253.652-254.602		Rolling	Gravel	6.00	Bad	-	-	CS 500	ES 400	Field
	3	1.450	254.602-256.052		Rolling	Asphalt	5.00	Bad	Gravel	1.00	-	-	Field	
	4	2.600	256.052-258.652		Mount's	Asphalt	5.00	Bad	Gravel	1.00	2000	CS 1000	ES 500	Field
	5	1.550	258.652-260.202		Rolling	Asphalt	5.00	Bad	Gravel	0.50	1000	CS 600	ES 300	Field
	6	2.150	260.202-262.352		Mount's	Asphalt	5.00	V.Bad	Gravel	0.50	-	CS 1000	ES 500	Field
	7	1.468	262.352-263.820		Rolling	Asphalt	5.00	Bad	Gravel	0.50	-	CS 1000	ES 200	Field
	8	0.800	263.820-264.620		Rolling	Gravel	5.00	Bad	-	-	-	-	-	Field
	9	2.600	264.620-267.220		Mount's	Asphalt	5.00	Bad	Gravel	0.50	100	CS 1500	ES 500	Field
	10	3.000	267.220-270.220		Mount's	Asphalt	5.00	V.Bad	Earth	0.50	-	CS 2000	ES 500	Field
	11	5.200	270.220-275.420		Mount's	Asphalt	5.00	V.Bad	-	-	-	CS 5000	ES 4000	Field
	12	4.900	275.420-280.320		Rolling	Gravel	5.00	Fair	-	-	-	CS 4900	ES 4000	Field
	13	4.400	280.320-284.720		Rolling	Gravel	5.00	Fair	-	-	-	CS 4300	ES 3500	Field
	14	1.600	284.720-286.320		Mount's	Gravel	4.00	Bad	-	-	-	CS 1000	ES 500	Field
	15	0.800	286.320-287.120		Mount's	Asphalt	5.00	Bad	Gravel	1.00	-	-	-	Field
	16	4.100	286.920-291.020		Mount's	Gravel	4.00	Bad	-	-	-	CS 4000	ES 3000	Field
17	2.700	291.020-293.720		Rolling	Gravel	4.00	Fair	-	-	-	CS 2500	ES 2500	Field	
18	2.600	293.720-296.320		Rolling	Gravel	4.00	Bad	-	-	-	DF 50	ES 2500	Field	
02-25C	19	2.900	296.320-299.220		Mount's	Gravel	5.00	Bad	-	-	CS 2500	ES 2500	Field	
	20	0.400	299.220-299.620		Rolling	Gravel	4.00	Bad	-	-	-	-	Field	
02-25D	1	7.380	299.620-307.000		Mount's	Gravel	4.00	V.Bad	-	-	CS 2000	ES 2000	Hearing	
	2	12.970	307.000-319.970		Mount's	Gravel	5.00	Bad	-	-	CS 3000	ES 3000	Hearing	

Note : Disaster Type : CS=Cut Slope Damage, ES=Embankment Slope Damage, DF=Debris Flow, SR=Scour/Washout of Roadbed, FR=Flooding

Bridge Data

Link section No.	Sub- No.	Bridge Name	Station (km)	Bridge Type	Bridge Length (m)	Span Length (m)	Carri- Side- ageway walk		Bridge Damage		Approach Damage		Survey Method
							Width (m)	Width (m)	Slab	Superst. Subst.	MNL Side (m)	Opp. Side (m)	
02-25A	2	BRIDGE #1	251.940	Permanent	18.4	1x18.4	6.70	0.40	-	-	-	-	Field
	12	ADUNOT BRIDGE	275.530	Ford Cr.	300.0	-	-	-	-	-	-	-	Field
	15	SOMBRENO BRIDGE	286.842	Permanent	31.0	1x31.0	6.10	0.40	-	-	-	-	Field
	17	ACNIP BRIDGE	293.540	Bailey	15.0	1x15.0	3.50	-	-	-	-	-	Field
	19	TAAL BRIDGE	297.585	Ford Cr.	200.0	-	-	-	-	-	-	-	Field
02-25C	2	PITO BRIDGE	316.100	Permanent	15.0	1x15.0	6.80	0.40	-	-	-	-	Field

Province : Bengkulu
 Road Class : National
 Road Number : 02-26
 Length : 65.788 km (From 299.620 km to 365.408 km)
 Road Name : Gurel-Bukod-Kabayan-Abatan Road

Road Data

Link section No.	Sub- No.	Length (km)	Station (km)		Terrain	Carriageway			Shoulder/Sidewalk		Substandard Alignment Section (m)	Disaster Potential Section		Survey Method
			From	To		Type	Width (m)	Condition (m)	Type	Width (m)		Type (m)	Type (m)	
02-26 X	1	1.650	299.620	301.270	Rolling	Gravel	4.00	Fair				CS 1000	ES 1000	Field
	2	1.750	301.270	303.020	Mount's	Gravel	4.00	Fair				CS 1000	ES 500	Field
02-26 Y	3	5.980	303.020	309.000	Mount's	Gravel	4.00	Bad				-	-	Hearing
	4	10.000	309.000	319.000	Mount's	Gravel	3.00	V.Bad				-	-	Hearing
	5	11.000	319.000	330.000	Mount's	Gravel	4.00	Bad				-	-	Hearing
	6	3.000	330.000	333.000	Mount's	Gravel	5.00	Fair				-	-	Hearing
	7	16.000	333.000	349.000	Mount's	Gravel	3.00	V.Bad				-	-	Hearing
	8	4.580	349.000	353.580	Mount's	Gravel	5.00	Fair				-	-	Hearing
	9	1.828	353.580	355.408	Mount's	Gravel	4.00	Bad				-	-	Hearing
	10	2.300	355.408	357.708	Mount's	Gravel	3.00	V.Bad			2300	-	-	Field
	11	1.000	357.708	358.708	Mount's	Gravel	4.00	Bad				-	-	Field
	12	1.500	358.708	360.208	Rolling	Gravel	4.00	V.Bad				-	-	Field
13	0.900	360.208	361.108	Rolling	Gravel	5.00	V.Bad				-	-	Field	
14	0.400	361.108	361.508	Flat	Gravel	4.00	V.Bad				-	-	Field	
15	1.600	361.508	363.108	Flat	Gravel	6.00	V.Bad				-	-	Field	
16	2.300	363.108	365.408	Mount's	Asphalt	3.00	Bad				1000	CS 500	Field	
									0.50		2000	CS 800	Field	

Note : Disaster Type : CS=Cut Slope Damage, ES=Embankment Slope Damage, DF=Debris Flow, SR=Scour/Washout of Roadbed, FR=Flooding

Bridge Data

Link section No.	Sub- No.	Bridge Name	Station (km)	Bridge		Span		Carri- Side		Bridge Damage		Approach Damage		Survey Method
				Type	Length (m)	Length (m)	Width (m)	Width (m)	Width (m)	Slab	Superst. Subst.	MNL Side	Opp. Side	
02-26 X	1	BOLO BRIDGE	300.030	Ford Cr.	50.0									Field
	1	AMBAYEK BRIDGE	300.530	Permanent	15.0	1x15.0	6.70	0.40						Field
02-26 Y	2	MOATANG BRIDGE	302.050	Permanent	18.0	1x18.0	6.10	0.40						Field
	5	KALING BRIDGE	324.950	Bailey	53.7	1x53.7	3.80				High		High	20
	5	PACHEL BRIDGE	326.258	Permanent	21.5	1x21.5	6.50	0.40						Field
	5	ELLET BRIDGE	327.400	Bailey	24.4	1x24.4	3.80							Hearing
	6	KABAYAN CENTRAL BRIDGE	331.030	Permanent	7.0	1x7.0	6.00	0.30						Hearing
	6	PANTAL BRIDGE	331.230	Bailey	15.2	1x15.2	3.70							Hearing
	7	ALANOD BRIDGE	336.930	Permanent	50.0	2x25.0	6.70	0.40						Hearing
	7	BONGIS BRIDGE	341.910	Permanent	56.0	2x28.0	7.00	0.50						Hearing
	8	CAPUYAN BRIDGE	349.320	Bailey	42.7	1x42.7	3.80							Hearing
	8	ASINAN BRIDGE	350.256	Bailey	18.2	1x18.2	3.80							Hearing
	8	TOKING BRIDGE	352.730	Bailey	9.0	1x9.0	3.80							Hearing
10	MAN-ASOK	356.863	Bailey	18.2	1x18.2	3.80							Hearing	
11	MANATONG BRIDGE	358.398	Bailey	9.1	1x9.1	3.80							Hearing	

Bridge Data (Continued)

Sub- Link section No.	Bridge Name	Station (km)	Bridge Type	Bridge Length (m)	Span Length (m)	Carri- Side- age way walk		Bridge Damage		Approach Damage		Survey Method
						Width (m)	Width (m)	Slab	Superst.	Subst.	MNL Side (m)	
02-26 Y 13	BAHOY BRIDGE	360.900	Bailey	12.0	1x12.0	3.80	-	-	-	-	-	Hearing
15	LAB-AN BRIDGE	362.300	Bailey	12.5	1x12.5	3.80	-	-	-	-	-	Hearing
15	LOO BRIDGE	362.350	Permanent	12.0	1x12.0	6.80	0.40	-	-	-	-	Hearing
15	GALAP #1	362.905	Bailey	30.5	1x30.5	3.80	-	-	-	-	-	Hearing
15	GALAP #2	362.984	Bailey	9.0	1x 9.0	3.80	-	-	-	-	-	Hearing

Province : Benguet Road Number : 02-27 Road Name : Abatan-Mankeyan-Cervantes Road
 Road Class : National Length : 23.188 km (From 333.056 km to 356.244 km)

Road Data

Link section No.	Sub-section No.	Length (km)	Station (km)		Terrain	Carriageway		Shoulder/Sideek		Substandard Alignment Section (m)	Disaster Potential Section		Survey Method
			From	To		Type	Width (m)	Type	Width (m)		Type (m)	Type (m)	
02-27	1	0.300	333.056-333.356		Mount's	Gravel	4.00	Bad	Gravel	0.50	-	-	Field
	2	0.300	333.356-333.656		Mount's	Concrete	6.10	Good	-	-	-	-	Field
	3	3.354	333.656-337.010		Mount's	Gravel	5.00	Bad	-	-	1500	CS 1000	Field
	4	2.630	337.010-339.640		Mount's	Gravel	5.00	Fair	-	-	600	CS 800	Field
	5	0.360	339.640-340.000		Mount's	Asphalt	5.00	Bad	-	-	-	-	Field
	6	0.910	340.000-340.910		Mount's	Gravel	6.00	Fair	-	-	-	-	Field
	7	0.790	340.910-341.700		Mount's	Asphalt	6.00	Bad	-	-	200	-	Field
	8	0.300	341.700-342.000		Mount's	Gravel	6.00	Fair	-	-	-	CS 200	Field
	9	2.550	342.000-344.550		Mount's	Asphalt	4.00	Bad	-	-	1000	CS 200	Field
	10	0.300	344.550-344.850		Mount's	Asphalt	4.00	Fair	-	-	-	-	Field
	11	4.420	344.850-349.270		Mount's	Gravel	3.00	Bad	-	-	3000	CS 1000	Field
	12	6.974	349.270-356.244		Mount's	Gravel	4.00	Bad	-	-	6000	CS 1000	Field

Note : Disaster Type : CS=Cut Slope Damage, ES=Embankment Slope Damage, DF=Debris Flow, SR=Scour/Washout of Roadbed, FR=Flooding

Bridge Data

Link section No.	Sub-section No.	Bridge Name	Station (km)	Bridge		Carri- Side- ageway walk		Bridge Damage		Approach Damage		Survey Method
				Type	Length (m)	Span Length (m)	Width (m)	Width Slab (m)	Superst. (m)	MNL Side (m)	Opp. Side (m)	
02-27	4	GUINAOANG BRIDGE	337.844	Permanent	19.8	1x19.8	6.00	0.35	-	-	-	Field
	9	TUBO BRIDGE	342.544	Permanent	19.8	1x19.8	6.00	0.35	-	-	-	Field
	12	BAGUYOS BRIDGE	355.644	Permanent	27.5	1x27.5	6.00	0.35	-	-	High	Field

Province : Benguet Road Number : 02-28 Road Name : Baguio-Bua-Itogon-Dalupirip-San Miguel Road
 Road Class : National Length : 39.602 km (From 252.250 km to 291.852 km.)

Road Data

Link section No.	Sub-section No.	Length (km)	Station		Terrain	Carriageway			Shoulder/Side-wk		Substandard Alignment Section		Disaster Potential Section		Survey Method
			From (km)	To (km)		Type	Width (m)	Condition	Type	Width (m)	Type (m)	Type (m)	Type (m)		
02-28	1	0.950	252.250	253.200	Rolling	Asphalt	8.00	Good	Concrete	0.50	-	-	-	-	Field
	2	0.820	253.200	254.020	Rolling	Asphalt	4.00	Bad	Gravel	0.50	-	-	-	-	Field
	3	0.530	254.020	254.550	Mount's	Asphalt	5.00	Good	Gravel	1.00	-	-	CS 100	-	Field
	4	1.440	254.550	255.990	Mount's	Asphalt	5.00	Bad	Gravel	0.50	-	-	CS 400	ES 100	Field
	5	0.570	255.990	256.560	Mount's	Concrete	6.10	U-const	Gravel	1.00	-	-	CS 50	ES 100	Field
	6	2.000	256.560	258.560	Mount's	Asphalt	5.00	V.Bad	Gravel	0.50	-	-	CS 100	ES 500	Field
	7	2.410	258.560	260.970	Mount's	Asphalt	5.00	Bad	Gravel	0.50	-	-	CS 450	ES 500	Field
	8	4.214	260.970	265.184	Mount's	Gravel	4.00	Bad	-	-	-	-	CS 1500	ES 1600	Field
	9	1.000	265.184	266.184	Mount's	Gravel	3.00	Bad	-	-	-	-	DF 20	-	Field
	10	12.230	266.184	278.414	Mount's	Gravel	3.00	V.Bad	-	-	-	-	CS 1000	ES 800	Field
	11	13.438	278.414	291.852	Mount's	-	-	No Road	-	-	-	-	CS 9500	ES 9500	Hearing

Note : Disaster Type : CS=Cut Slope Damage, ES=Embankment Slope Damage, DF=Debris Flow, SR=Scour/Washout of Roadbed, FR=Flooding

Bridge Data

Link section No.	Sub-section No.	Bridge Name	Station (km)	Bridge		Span		Carri- Side- ageway		Bridge Damage		Approach Damage		Survey Method
				Type	Length (m)	Length (m)	Width (m)	Width (m)	Width (m)	Slab	Superst. Subst.	MNL Side	Opp. Side	
02-28	8	PICAO BRIDGE	263.214	Permanent	10.0	1x10.0	7.30	0.50	-	-	-	-	-	Field
	8	BALINGUAY BRIDGE	265.014	Permanent	5.0	1x 5.0	6.90	0.40	-	-	-	-	-	Field
	9	MAMBOLO BRIDGE	265.726	Bailey	43.3	1x43.3	6.70	0.40	-	-	-	-	-	Field
	10	TILI BRIDGE	268.214	Bailey	9.0	1x 9.0	3.80	-	-	-	-	-	-	Field
	10	SALAPSAP BRIDGE	277.614	Bailey	9.0	1x 9.0	3.80	-	-	-	-	-	-	Field
10	FOOT BRIDGE	278.414	Timber	91.0	1x91.0	1.00	-	-	-	-	-	-	Field	

Province : Bengkulu
 Road Class : National
 Road Number : 02-29
 Road Name : Acop-Kapangan-Kiblingan-Bakun Road
 Length : 73.900 km (From 262.844 km to 336.744 km)

Road Data

Link section No.	Sub-section No.	Length (km)	Station		Terrain	Carriageway		Shoulder/Side-walk		Substandard Alignment		Disaster Potential Section	Survey Method
			From (km)	To (km)		Type	Width (m)	Condition	Type	Width (m)	Section (m)		
02-29	1	0.300	262.844	263.144	Rolling	Gravel	6.00	Fair	-	-	CS 1100	ES 600	Field
	2	2.200	263.144	265.344	Mount's	Gravel	5.00	Bad	2000	-	ES 500	-	Field
	3	1.700	265.344	267.044	Rolling	Gravel	5.00	Bad	1000	-	CS 500	-	Field
	4	2.000	267.044	269.044	Mount's	Gravel	5.00	Bad	1500	-	CS 500	ES 100	Field
	5	1.700	269.044	270.744	Mount's	Gravel	5.00	Fair	700	-	CS 600	ES 300	Field
	6	3.600	270.744	274.344	Mount's	Gravel	5.00	Bad	3000	-	CS 2500	ES 2000	Field
	7	3.100	274.344	277.444	Mount's	Gravel	5.00	Fair	2000	-	CS 1500	ES 1000	Field
	8	1.400	277.444	278.844	Mount's	Gravel	4.00	Bad	800	-	CS 500	ES 200	Field
	9	0.900	278.844	279.744	Mount's	Asphalt	4.00	Bad	500	-	CS 300	ES 200	Field
	10	1.420	279.744	281.164	Mount's	Gravel	4.00	Bad	1000	-	ES 200	-	Field
	11	0.600	281.164	281.764	Mount's	Concrete	6.10	Good	-	-	-	-	Field
	12	1.200	281.764	282.964	Mount's	Gravel	4.00	Bad	800	-	ES 200	-	Field
	13	1.200	282.964	284.164	Rolling	Gravel	4.00	V.Bad	500	-	ES 100	-	Field
	14	3.200	284.164	287.364	Mount's	Gravel	4.00	Bad	1000	-	CS 500	ES 200	Field
	15	0.500	287.364	287.864	Mount's	Asphalt	4.00	Bad	-	-	-	-	Field
	16	1.000	287.864	288.864	Mount's	Asphalt	4.00	Bad	-	-	-	-	Field
	17	29.136	288.864	318.000	Mount's	Gravel	4.00	Fair	-	-	-	-	Field
	18	14.000	318.000	332.000	Mount's	No. Road	-	-	-	-	-	-	Field
	19	4.744	332.000	336.744	Mount's	Gravel	4.00	Fair	-	-	-	-	Field

Note : Disaster Type : CS=Cut Slope Damage, ES=Embankment Slope Damage, DF=Debris Flow, SR=Scour/Washout of Roadbed, FR=Flooding

Bridge Data

Link section No.	Sub-section No.	Bridge Name	Station (km)	Bridge		Span		Carri- Side- age-way walk		Bridge Damage		Approach Damage		Survey Method
				Type	Length (m)	Length (m)	Length (m)	Width (m)	Width (m)	Slab	Superst. Subst.	MNL Side	Opp. Side	
02-29	3	PALEUS BRIDGE	265.544	Timber	36.9	1x36.9	4.40	-	-	-	-	-	-	Field
	5	CHICAO BRIDGE	269.539	Permanent	15.2	1x15.2	6.70	0.40	-	-	-	-	-	Field
	6	CAMUAYAN BRIDGE	271.374	Permanent	80.3	3x26.8	7.40	0.50	-	-	-	-	-	Field
	10	BARAAN BRIDGE	279.815	Permanent	86.1	3x28.7	7.40	0.50	-	-	-	-	-	Field
	10	DATAKAN BRIDGE	280.684	Permanent	9.4	1x 9.4	6.90	0.40	-	-	-	-	-	Field
	10	ASO BRIDGE	280.843	Permanent	6.8	1x 6.8	6.90	0.40	-	-	-	-	-	Field
	12	TACDIAN BRIDGE	281.857	Permanent	12.0	1x12.0	6.70	0.40	-	-	-	-	-	Field
	12	LOWON BRIDGE	282.720	Permanent	12.0	1x12.0	7.40	0.50	-	-	-	-	-	Field
	16	TABA-AO BRIDGE	288.257	Permanent	9.6	1x 9.6	7.40	0.50	-	-	-	-	-	Field
	16	AMBUAYAN BRIDGE	288.864	Permanent	82.3	1x82.3	3.40	High	-	-	-	-	-	Field
	17	SALACOP BRIDGE	292.515	Permanent	12.2	1x12.2	3.40	-	-	-	-	-	-	Field
	17	IPIT BRIDGE	308.300	Permanent	31.0	1x31.0	3.40	-	-	-	-	-	-	Field

Province : Benguet
 Road Class : National

Road Number : 02-30 Road Name : La Trinidad-Lantang Road
 Length : 8.828 km (From 257.130 km to 265.958 km)

Road Data

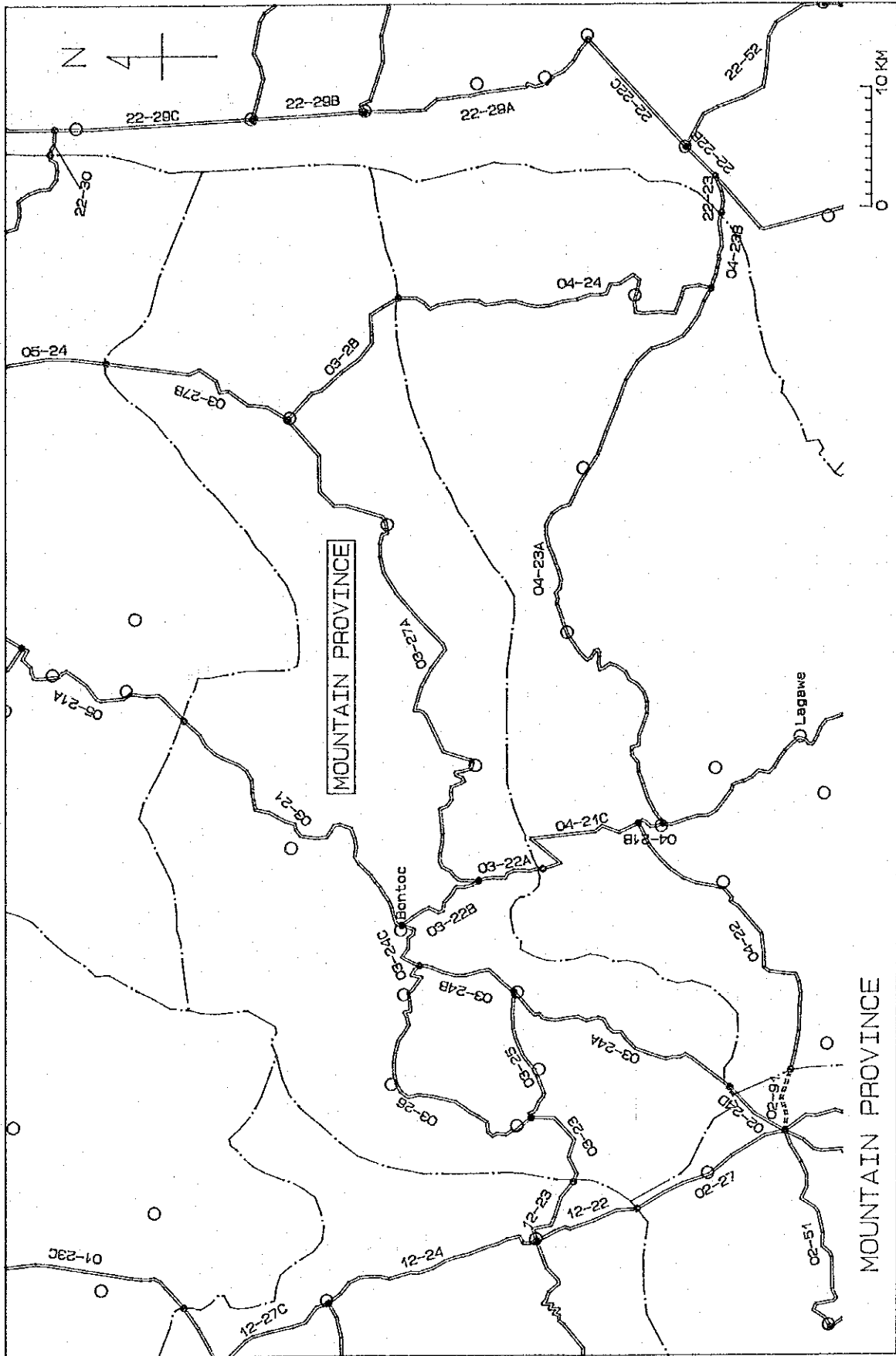
Link section No.	Sub-section Length (km)	Station		Terrain	Carriageway		Shoulder/Sideek		Alignment		Disaster Section		Potential Section	Survey Method
		From (km)	To (km)		Type	Width (m)	Condition	Type	Width (m)	Type (m)	Type (m)	Type (m)		
02-30	1	2.500	257.130-259.630	Rolling	Concrete	6.00	Good	Gravel	1.00	-	-	-	-	Hearing
	2	6.328	259.630-265.958	Mount's	Gravel	5.00	Bad							Hearing

Province : Bengkulu
 Road Class : Provincial
 Road Number : 02-51
 Road Name : Abatan-Kibungen Road
 Length : 28.500 km (From 333.056 km to 361.556 km)

Road Data

Link section No.	Sub-section Length (km)	Station		Terrain	Carriageway		Shoulder/Sidewalk		Substandard Alignment		Disaster Potential Section		Survey Method
		From (km)	To (km)		Type	Width (m)	Type	Width (m)	Type (m)	Type (m)	Type (m)	Type (m)	
02-51	1	3.000	333.056-336.056	Mount's									
	2	2.000	336.056-338.056	Mount's	Earth	3.00	No Road						Hearing
	3	3.000	338.056-341.056	Mount's			No Road						
	4	20.500	341.056-361.556	Mount's	Earth	3.00	V.Bad						Hearing

MT. PROVINCE (03)



Total Length of Surveyed Roads by Surface Type/Condition/Carrigeaway Width(W)

Province : Mountain Province

Surface Type	Surface Condition	National Road			Provincial Road			Total		
		W<6.0m	W=6.0m W>6.0m	Total	W<6.0m	W=6.0m W>6.0m	Total	W<6.0m	W=6.0m W>6.0m	Total
Concrete	Good	-	0.3	0.3	-	-	-	-	0.3	0.3
	Fair	-	-	-	-	-	-	-	-	-
	Bad	-	-	-	-	-	-	-	-	-
	Very Bad	-	-	-	-	-	-	-	-	-
	Total	-	0.3	0.3	-	-	-	-	0.3	0.3
Asphalt	Good	-	0.7	0.7	-	-	-	-	0.7	0.7
	Fair	13.9	-	13.9	-	-	-	13.9	-	13.9
	Bad	50.6	1.0	51.6	-	-	-	50.6	1.0	51.6
	Very Bad	4.0	0.8	4.8	-	-	-	4.0	0.8	4.8
	Total	68.5	2.5	71.1	-	-	-	68.5	2.5	71.1
Gravel	Good	-	4.2	4.2	-	-	-	66.8	4.2	70.9
	Fair	66.8	-	70.9	-	-	-	83.1	0.3	83.4
	Bad	83.1	0.3	83.4	-	-	-	-	-	-
	Very Bad	-	1.0	1.0	-	-	-	-	1.0	1.0
	Total	149.9	5.5	155.3	-	-	-	149.9	5.5	155.3
Earth	Good	-	-	-	-	-	-	-	-	-
	Fair	-	-	-	-	-	-	-	-	-
	Bad	6.0	-	6.0	-	-	-	6.0	-	6.0
	Very Bad	101.0	-	101.0	-	-	-	101.0	-	101.0
	Total	107.0	-	107.0	-	-	-	107.0	-	107.0
	Impassable	2.0	-	2.0	-	-	-	2.0	-	2.0
Total	Good	-	1.0	1.0	-	-	-	-	1.0	1.0
	Fair	80.7	4.2	84.8	-	-	-	80.7	4.2	84.8
	Bad	139.7	1.3	141.0	-	-	-	139.7	1.3	141.0
	Very Bad	105.0	1.8	106.8	-	-	-	105.0	1.8	106.8
	Impassable	2.0	-	2.0	-	-	-	2.0	-	2.0
	Total	327.4	8.3	335.7	-	-	-	327.4	8.3	335.7

Province : Mountain Province Road Number : 03-21 Road Name : Mt. Prov.-Cagayan Road
 Road Class : National Length : 29.900 km (From 392.100 km to 422.000 km)

Road Data

Link section No.	Sub-section No.	Length (km)	Station (km)		Terrain	Carriageway		Shoulder/Side-walk		Substandard Alignment		Disaster Potential		Survey Method
			From	To		Type	Width (m)	Condition	Type	Width (m)	Section (m)	Type (m)	Type (m)	
03-21	1	0.400	392.100	392.500	Rolling	Asphalt	6.70	Good	Concrete	1.00	-	-	-	Field
	2	2.800	392.500	395.300	Rolling	Gravel	3.00	Fair	-	-	2800	CS 2800	ES 2800	Field
	3	2.700	395.300	398.000	Rolling	Gravel	3.00	Fair	-	-	2000	CS 2000	ES 2000	Field
	4	1.900	398.000	399.900	Mount's	Gravel	3.00	Fair	-	-	600	CS 500	-	Field
	5	1.200	399.900	401.100	Rolling	Gravel	3.00	Fair	-	-	500	CS 800	ES 300	Field
	6	2.800	401.100	403.900	Rolling	Gravel	3.00	Fair	-	-	500	CS 2000	ES 1000	Field
	7	8.100	403.900	412.000	Mount's	Gravel	2.50	Bad	-	-	4000	CS 5000	ES 3000	Hearing
	8	10.000	412.000	422.000	Mount's	Gravel	3.00	Bad	-	-	6000	CS 8000	ES 4000	Hearing

Note : Disaster Type : CS=Cut Slope Damage, ES=Embankment Slope Damage, DF=Debris Flow, SR=Scour/Washout of Roadbed, FR=Flooding

Bridge Data

Link section No.	Sub-section No.	Bridge Name	Station (km)	Bridge		Span		Carri- Side-		Bridge Damage		Approach Damage		Survey Method
				Type	Length (m)	Length (m)	Width (m)	Width (m)	Width (m)	Width (m)	Slab	Superst.	Subst.	
03-21	2	LAGANGCO BRIDGE	393.284	Bailey	24.3	1x18.3	4.00	-	-	-	-	-	-	Field
	3	LATANG BRIDGE	395.325	Bailey	18.3	1x18.3	3.94	-	-	-	-	-	-	Field
	4	TOCUCAN BRIDGE	398.651	Bailey	10.0	1x10.0	3.94	-	-	-	-	-	-	Field
	7	GANA BRIDGE	404.257	Bailey	9.1	1x 9.1	3.94	-	-	-	-	-	-	Field
	8	AMPAMILLEN BRIDGE	412.364	Permanent	15.4	1x15.4	6.10	0.50	-	-	-	-	-	Field
	8	CORO-CORO I	412.941	Permanent	8.0	1x 8.0	6.00	0.40	-	-	-	-	-	Field
	8	CORO-CORO II	412.997	Bailey	12.2	1x12.2	3.94	-	-	-	-	-	-	Hearing
	8	MALANAS BRIDGE	416.841	Bailey	18.3	1x18.3	3.94	-	-	-	-	-	-	Hearing
	8	AGADONG BRIDGE	419.825	Bailey	15.4	1x15.4	3.94	-	-	-	-	-	-	Hearing
	8	MAMAGA BRIDGE	421.944	Bailey	15.4	1x15.4	3.94	-	-	-	-	-	-	Hearing

Province : Mountain Province Road Number : 03-22 Road Name : Mt. Prov.-H. Vizcaya Road
 Road Class : National Length : 26.050 km (From 362.200 km to 388.250 km)

Road Data

Link section No.	Sub-section No.	Length (km)	Station (km)		Terrain	Carriageway		Shoulder/Sidewalk		Substandard Alignment Section (m)	Disaster Potentqdl Section		Survey Method
			From	To		Type	Width (m)	Condition	Type		Width (m)	Type (m)	
03-22A	1	4.150	362.200	366.350	Mount's	Gravel	6.00	Fair	-	-	CS 300	-	Field
	2	3.400	366.350	369.750	Mount's	Gravel	4.00	Fair	-	-	CS 500	ES 100	Field
	3	1.300	369.750	371.050	Rolling	Gravel	3.00	Fair	-	-	CS 100	ES 100	Field
	4	1.100	371.050	372.150	Mount's	Gravel	4.00	Fair	-	-	CS 300	ES 100	Field
	5	1.700	372.150	373.850	Mount's	Gravel	4.00	Fair	-	-	CS 300	ES 100	Field
	6	3.000	373.850	376.850	Mount's	Gravel	3.00	Fair	2000	-	CS 200	ES 400	Field
03-22B	1	1.100	376.850	377.950	Mount's	Gravel	3.00	Fair	-	500	CS 500	ES 500	Field
	2	3.400	377.950	381.350	Mount's	Gravel	4.00	Fair	-	500	CS 1000	ES 500	Field
	3	3.000	381.350	384.350	Mount's	Gravel	4.00	Fair	-	-	CS 800	ES 500	Field
	4	2.900	384.350	387.250	Rolling	Gravel	3.00	Fair	1000	-	CS 2500	ES 2000	Field
	5	0.700	387.250	387.950	Rolling	Asphalt	4.00	Bad	-	-	-	-	Field
	6	0.300	387.950	388.250	Rolling	Asphalt	12.00	Bad	-	-	-	-	Field

Note : Disaster Type : CS=Cut Slope Damage, ES=Embankment Slope Damage, DF=Debris Flow, SR=Scour/Washout of Roadbed, FR=Flooding

Bridge Data

Link section No.	Sub-section No.	Bridge Name	Station (km)	Bridge		Carri- Side- ageway walk		Bridge Damage		Approach Damage		Survey Method
				Type	Length (m)	Span Length (m)	Width (m)	Width (m)	Slab	Superst. Subst.	MNL Side (m)	
03-22A	5	AB-AB BRIDGE	373.850	Bailey	16.1	1x16.1	3.94	-	-	-	-	Field
	1	TALUBIN BRIDGE	376.950	Permanent	12.0	1x12.0	6.10	0.40	-	-	-	Field
03-22B	5	CHICO BRIDGE	387.850	Bailey	189.0	15x12.6	4.00	-	-	-	-	Field

Province : Mountain Province Road Number : 03-23 Road Name : Cervantes-Cabunagan Road
 Road Class : National Length : 19.030 km (From 383.750 km to 402.780 km)

Road Data

Link section No.	Sub-section No.	Length (km)	Station		Terrain	Carriageway		Shoulder/Sidewalk		Substandard Alignment		Disaster Potential Section		Survey Method
			From (km)	To (km)		Type	Width (m)	Condition	Type	Width (m)	Type	Section (m)	Type (m)	
03-23	1	7.250	383.750	391.000	Mount's	Gravel	4.00	Bad	-	-	-	-	-	Hearing
	2	7.000	391.000	398.000	Mount's	Gravel	3.00	Bad	-	-	-	-	-	Hearing
	3	2.600	398.000	400.600	Mount's	Gravel	4.00	Bad	-	-	-	-	-	Hearing
	4	2.180	400.600	402.780	Mount's	Gravel	3.00	Bad	1000	CS 2000	ES 1000	-	-	Field

Note : Disaster Type : CS=Cut Slope Damage, ES=Embankment Slope Damage, DF=Debris Flow, SR=Scour/Washout of Roadbed, FR=Flooding

Bridge Data

Link section No.	Sub-section No.	Bridge Name	Station (km)	Bridge		Span		Carri- Side- ageaway walk		Bridge Damage		Approach Damage		Survey Method	
				Type	Length (m)	Length (m)	Width (m)	Width (m)	Stab	Superst. Subst.	MNL Side	Opp. Side	Type (m)		Type (m)
03-23	1	CALACABAN BRIDGE	390.700	Bailey	18.3	1x18.3	3.80	-	-	-	-	-	-	-	Hearing

Province : Mountain Province Road Number : 03-24 Road Name : Reguio-Bontoc Road
 Road Class : National Length : 50.956 km (From 341.144 km to 392.100 km)

Road Data

Link section No.	Sub-section No.	Length (km)	Station		Terrain	Carriageway		Shoulder/Sidewalk		Substandard Alignment Section (m)	Disaster Potential Section		Survey Method	
			From (km)	To (km)		Type	Width (m)	Type	Width (m)		Type (m)	Type (m)		
03-24A	1	0.300	341.144	341.444	Mount's	Gravel	6.00	Bad	Gravel	0.50	-	CS 300	ES 300	Field
	2	0.800	341.444	342.244	Mount's	Asphalt	6.00	V.Bad	-	-	-	CS 700	-	Field
	3	1.000	342.244	343.244	Rolling	Gravel	6.00	V.Bad	-	-	-	-	-	Field
	4	0.400	343.244	343.644	Mount's	Asphalt	6.00	Bad	Gravel	0.50	-	CS 400	-	Field
	5	0.900	343.644	344.544	Rolling	Asphalt	5.00	Bad	Gravel	0.50	-	CS 300	-	Field
	6	4.000	344.544	348.544	Mount's	Asphalt	4.00	V.Bad	Gravel	0.50	4000	CS 2700	ES 1000	Field
	7	2.000	348.544	350.544	Rolling	Asphalt	4.00	Bad	Gravel	0.50	300	CS 1000	ES 500	Field
	8	1.000	350.544	351.544	Rolling	Asphalt	4.00	Bad	Gravel	1.00	-	CS 300	ES 100	Field
	9	3.700	351.544	355.244	Mount's	Asphalt	4.00	Bad	Gravel	0.50	-	-	-	Field
	10	2.100	355.244	357.344	Rolling	Asphalt	4.00	Fair	Gravel	0.50	500	CS 2000	ES 1000	Field
	11	1.300	357.344	358.644	Mount's	Asphalt	4.00	Bad	Gravel	0.50	-	CS 500	ES 400	Field
	12	1.356	358.644	360.000	Rolling	Gravel	5.00	Bad	Gravel	0.50	-	CS 1200	ES 600	Field
	13	6.100	360.000	366.100	Rolling	Asphalt	4.00	Bad	Gravel	0.50	3000	CS 1500	-	Field
	14	0.900	366.100	367.000	Rolling	Asphalt	4.00	Fair	Gravel	0.50	-	CS 400	-	Field
	15	2.900	367.000	369.900	Mount's	Asphalt	3.00	Bad	Gravel	0.50	-	CS 2000	-	Field
	16	0.700	369.900	370.600	Rolling	Asphalt	5.00	Fair	Gravel	0.50	-	CS 400	-	Field
	17	1.200	370.600	371.800	Rolling	Gravel	4.00	Bad	-	-	-	CS 1200	ES 400	Field
	18	1.400	371.800	373.200	Rolling	Asphalt	3.00	Bad	Gravel	0.50	-	CS 1400	-	Field
19	1.300	373.200	374.500	Mount's	Asphalt	3.00	Bad	Gravel	0.50	-	CS 800	ES 800	Field	
03-24B	1	2.000	374.500	376.500	Mount's	Asphalt	3.00	Bad	Gravel	0.50	-	CS 300	ES 100	Field
	2	1.700	376.500	378.200	Rolling	Asphalt	3.00	Fair	Gravel	0.50	-	CS 800	ES 400	Field
	3	1.500	378.200	379.700	Flat	Asphalt	3.00	Fair	Gravel	0.50	-	CS 300	-	Field
	4	2.900	379.700	382.600	Flat	Asphalt	3.00	Bad	Gravel	0.50	-	CS 500	ES 200	Field
	5	0.300	382.600	382.900	Flat	Gravel	4.00	Fair	-	-	-	-	-	Field
03-24C	6	2.100	382.900	385.000	Flat	Asphalt	3.00	Fair	Gravel	0.50	-	CS 500	ES 200	Field
	1	1.700	385.000	386.700	Flat	Asphalt	3.00	Bad	Gravel	0.50	-	CS 1500	ES 700	Field
	2	3.300	386.700	390.000	Rolling	Asphalt	3.00	Fair	Gravel	0.50	-	CS 1000	ES 500	Field
	3	1.750	390.000	391.750	Rolling	Asphalt	3.00	Bad	Gravel	0.50	-	-	-	Field
4	0.350	391.750	392.100	Flat	Asphalt	10.00	Good	Concrete	2.00	-	-	-	Field	

Note : Disaster Type : CS=Cut Slope Damage, ES=Embankment Slope Damage, DF=Debris Flow, SR=Scour/Washout of Roadbed, FR=Flooding

Bridge Data

Link section No.	Sub-section No.	Bridge Name	Station (km)	Bridge Type	Bridge Length (m)	Span Length (m)	Carri- Side- age way walk		Bridge Damage		Approach Damage		Survey Method
							Width (m)	Width (m)	Slab	Superst. Subst.	MNL Side (m)	Opp. Side (m)	
03-24A	6	MT-DATA BRIDGE	346.399	Permanent	21.3	1x21.3	4.00	-	-	-	-	-	Field
	1	SAB BRIDGE	374.881	Permanent	36.0	1x36.0	4.20	-	-	-	-	-	Field
03-24B	4	MALITEP BRIDGE	380.133	Permanent	45.0	1x45.0	6.70	0.50	-	-	-	-	Field
	5	ALAB BRIDGE	382.814	Permanent	6.0	1x 6.0	6.00	0.40	-	-	-	-	Field
03-24C	1	AMSOLONG BRIDGE	386.626	Permanent	40.0	1x40.0	6.10	0.50	-	-	-	-	Field
	2	SALITIAN BRIDGE	388.037	Permanent	30.0	1x30.0	6.10	0.50	-	-	-	-	Field

Province : Mountain Province Road Number : 03-25 Road Name : Cabunagan-Sabangan Road
 Road Class : National Length : 16.650 km (From 402.780 km to 419.430 km)

Road Data

Link section No.	Sub-section No.	Station		Terrain	Carriageway		Shoulder/Sidewk		Substandard Alignment Section		Disaster Potential Section		Survey Method
		From (km)	To (km)		Type	Width (m)	Condition	Type	Width (m)	Type	Width (m)	Type	
03-25	1	0.600	402.780-403.380	Mount's	Asphalt	3.00	Bad	Gravel	0.50	-	-	-	Field
	2	0.700	403.380-404.080	Mount's	Gravel	4.00	Bad	Gravel	0.50	300	CS 500	-	Field
	3	0.900	404.080-404.980	Mount's	Asphalt	4.00	Bad	Gravel	1.00	300	-	-	Field
	4	0.900	404.980-405.880	Rolling	Gravel	5.00	Fair	Gravel	0.50	-	-	-	Field
	5	0.500	405.880-406.380	Mount's	Asphalt	3.00	Bad	Earth	0.50	-	-	-	Field
	6	1.620	406.380-408.000	Mount's	Asphalt	4.00	Fair	Gravel	0.50	-	-	-	Field
	7	0.880	408.000-408.880	Mount's	Gravel	4.00	Bad	Gravel	0.50	500	CS 100	ES 100	Field
	8	0.780	408.880-409.660	Mount's	Asphalt	3.00	Bad	Gravel	0.50	300	-	-	Field
	9	1.950	409.660-411.610	Mount's	Gravel	4.00	Bad	Gravel	0.50	700	CS 300	-	Field
	10	0.980	411.610-412.590	Mount's	Asphalt	3.00	Bad	Gravel	0.50	200	-	-	Field
	11	1.370	412.590-413.960	Mount's	Asphalt	4.00	Bad	Gravel	0.50	500	CS 300	-	Field
	12	0.490	413.960-414.450	Rolling	Asphalt	3.00	Bad	Gravel	0.50	-	-	-	Field
	13	1.070	414.450-415.520	Mount's	Asphalt	3.00	Bad	Gravel	0.50	-	-	-	Field
	14	1.370	415.520-416.890	Rolling	Gravel	4.00	Fair	Gravel	0.50	200	CS 1000	ES 800	Field
	15	2.540	416.890-419.430	Rolling	Asphalt	3.00	Bad	Gravel	0.50	2540	CS 300	-	Field

Note : Disaster Type : CS=Cut Slope Damage, ES=Embankment Slope Damage, DF=Debris Flow, SR=Scour/Washout of Roadbed, FR=Flooding

Bridge Data

Link section No.	Sub-section Bridge Name	Station (km)	Bridge		Span		Carri- Side-		Bridge Damage		Approach Damage		Survey Method
			Type	Length (m)	Length (m)	Width (m)	Width (m)	Slab	Superst.	Subst.	MNL Side	Opp. Side	
03-25	9 BAUKO BRIDGE	410.406	Permanent	30.0	2x15.0	6.10	0.50	U-con.	U-con.	-	-	-	Field
	9 QUISOP BRIDGE	411.110	Bailey	18.3	1x18.3	3.50	-	-	-	-	-	-	Field
	10 AMMANG BRIDGE	411.860	Permanent	4.0	1x 4.0	6.00	0.40	-	-	-	-	-	Field
	11 CAPYEMAH BRIDGE	413.749	Permanent	6.0	1x 6.0	6.00	0.40	-	-	-	-	-	Field
	14 BRIDGE I	415.949	Permanent	6.0	1x 6.0	6.00	0.40	-	-	-	-	-	Field

Province : Mountain Province Road Number : 03-26 Road Name : Segada-Besao-Tadian Road
 Road Class : National Length : 43.000 km (From 385.000 km to 428.000 km)

Road Data

Link section No.	Sub-section No.	Length (km)	Station		Terrain	Carriageway		Shoulder/Sidewalk		Substandard Alignment Section (m)	Disaster Potential Section		Survey Method
			From (km)	To (km)		Type	Width (m)	Condition	Type		Width (m)	Type (m)	
03-26	1	3.300	385.000	388.300	Mount's	Asphalt	3.00	Bad	Gravel	0.50	-	CS 1000	Field
	2	1.500	388.300	389.800	Mount's	Asphalt	3.00	Bad	Gravel	1.00	-	CS 300	Field
	3	0.600	389.800	390.400	Mount's	Asphalt	3.00	Bad	Gravel	0.50	-	-	Field
	4	1.400	390.400	391.800	Mount's	Gravel	4.00	Bad	Gravel	0.50	400	CS 100	Field
	5	1.600	391.800	393.400	Mount's	Asphalt	3.00	Bad	Gravel	0.50	300	-	Field
	6	1.800	393.400	395.200	Mount's	Asphalt	3.00	Bad	Gravel	1.00	300	-	Field
	7	0.900	395.200	396.100	Mount's	Asphalt	3.00	Bad	Gravel	1.00	-	-	Field
	8	0.300	396.100	396.400	Mount's	Asphalt	7.00	Bad	Concrete	1.00	-	-	Field
	9	2.000	396.400	398.400	Mount's	Asphalt	3.00	Bad	Gravel	0.50	500	CS 300	Field
	10	1.200	398.400	399.600	Mount's	Gravel	4.00	Bad	Gravel	0.50	1000	CS 500	Field
	11	7.400	399.600	407.000	Rolling	Gravel	4.00	Bad	-	-	-	-	Field
	12	17.700	407.000	424.700	Mount's	Gravel	3.00	Bad	-	-	-	-	Hearing
	13	0.300	424.700	425.000	Mount's	Asphalt	3.00	Bad	Gravel	0.50	-	-	Field
	14	0.300	425.000	425.300	Mount's	Concrete	6.10	Good	Concrete	1.00	-	-	Field
	15	0.300	425.300	425.600	Mount's	Gravel	4.00	Fair	-	-	-	-	Field
	16	0.700	425.600	426.300	Rolling	Gravel	3.00	Bad	-	-	300	-	Field
	17	0.600	426.300	426.900	Rolling	Gravel	4.00	Fair	-	-	-	-	Field
	18	1.100	426.900	428.000	Rolling	Asphalt	3.00	Bad	Gravel	0.50	-	CS 300	Field

Note : Disaster Type : CS=Cut Slope Damage, ES=Embankment Slope Damage, DF=Debris Flow, SR=Scour/Washout of Roadbed, FR=Flooding

Province : Mountain Province Road Number : 03-27 Road Name : Mt. Province-N.Vizcaya Road
 Road Class : National Length : 127.150 km (From 376.850 km to 504.000 km)

Road Data

Link section No.	Sub-section No.	Station From - To (km)	Terrain	Carriageway		Shoulder/Side-wk		Substandard Alignment Section (m)	Disaster Potential Section		Survey Method
				Type	Width (m)	Condition	Type		Width (m)	Type (m)	
03-27A	1	0.865	376.850-377.715	Rolling	Gravel	2.50	Bad	865	CS 100	ES 300	Field
	2	1.200	377.715-378.915	Mount's	Gravel	3.00	Fair	1000	CS 100	ES 200	Field
	3	2.085	378.915-381.000	Mount's	Gravel	3.00	Fair	-	-	-	Field
	4	20.000	381.000-401.000	Mount's	Gravel	2.50	Fair	-	-	-	Field
	5	62.322	401.000-463.322	Mount's	Earth	2.50	V.Bad	-	-	-	Hearing
03-27B	1	38.678	463.322-502.000	Mount's	Earth	2.50	V.Bad	-	-	-	Hearing
	2	2.000	502.000-504.000	Mount's	Earth	2.50	No Road	-	-	-	Hearing

Note : Disaster Type : CS=Cut Slope Damage, ES=Embankment Slope Damage, DF=Debris FLOW, SR=Scour/Washout of Roadbed, FR=Flooding

Bridge Data

Link section No.	Sub-section No.	Bridge Name	Station (km)	Bridge		Span		Carri- Side- age-way walk		Bridge Damage		Approach Damage		Survey Method
				Type	Length (m)	Length (m)	Width (m)	Width (m)	Width Slab (m)	Superst. (m)	Subst. (m)	MNL Side (m)	Opp. Side (m)	
03-27A	1	MAGKANG BRIDGE	377.232	Bailey	15.2	1x15.2	3.94	-	-	-	-	-	-	Field
	1	LUBO BRIDGE	377.392	Bailey	12.2	1x12.2	3.94	-	-	-	-	-	-	Field
	4	SALIGKING BRIDGE	388.232	Bailey	12.2	1x12.2	3.94	-	-	-	-	-	-	Hearing
	5	MACASAB BRIDGE	404.510	Bailey	12.2	2x 6.1	3.94	-	-	-	-	-	-	Hearing
	5	CASAWA BRIDGE	409.460	Bailey	73.1	2x36.6	3.94	-	-	-	-	-	-	Hearing
	5	AGOGO BRIDGE I	414.670	Bailey	12.2	1x12.2	3.94	-	-	-	-	-	-	Hearing
03-27B	5	AGOGO BRIDGE II	414.750	Bailey	12.2	1x12.2	3.94	-	-	-	-	-	-	Hearing
	5	SALIOK BRIDGE	448.999	Bailey	30.4	2x15.2	3.94	-	-	-	-	-	-	Hearing

Province : Mountain Province Road Number : 03-28 Road Name : Mt. Province-Ifugao Road
 Road Class : National Length : 22.959 km (From 466.751 km to 489.710 km)

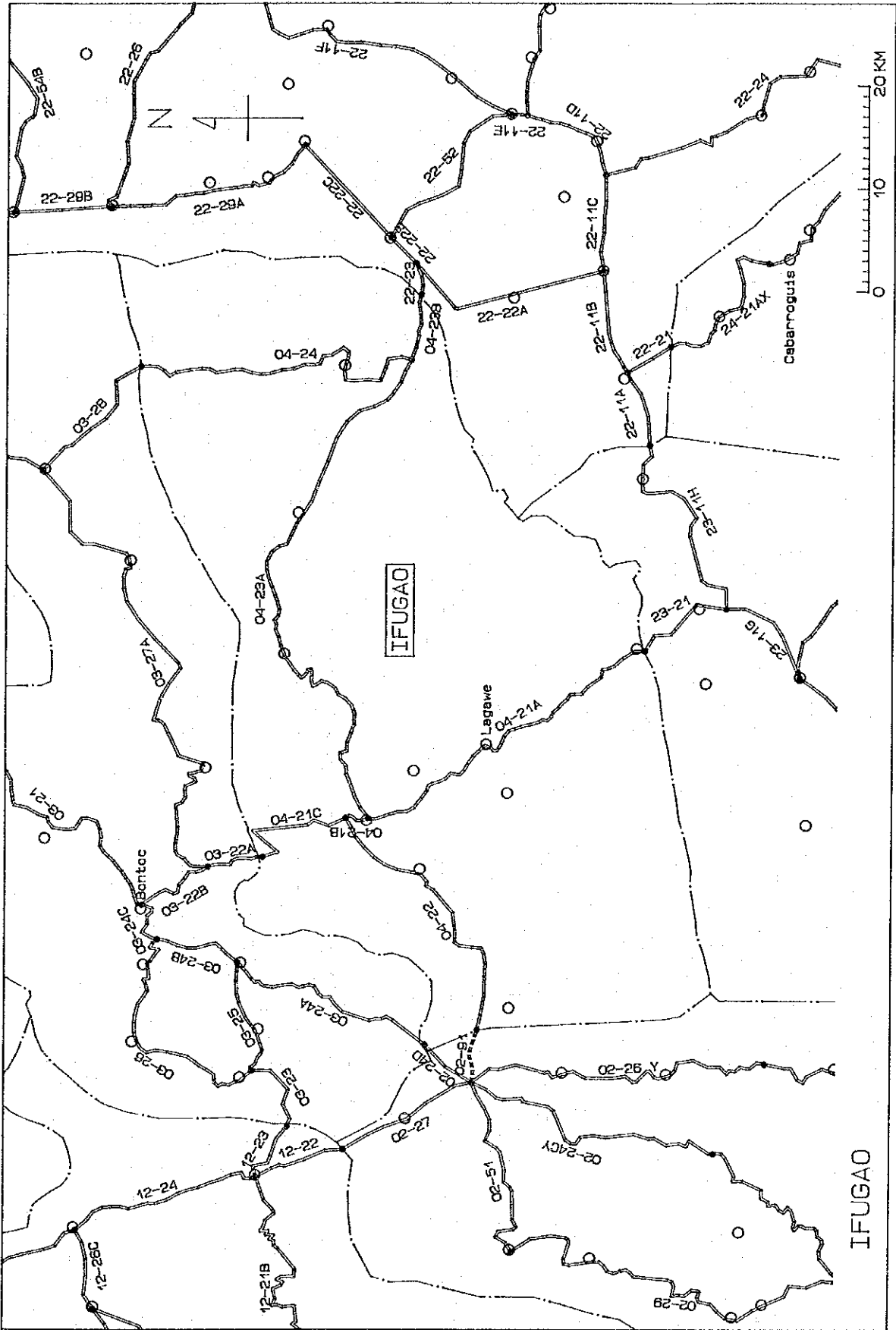
Road Data

Link section No.	Sub-section Length (km)	Station		Terrain	Carriageway			Shoulder/sidewalk		Substandard Alignment Section		Disaster Potential Section		Survey Method
		From (km)	To (km)		Type	Width (m)	Condition	Type	Width (m)	Type	(m)	Type	(m)	
03-28	1	9.249	466.751-476.000	Mount's	Gravel	2.50	Bad	-	-	-	-	-	-	Hearing
	2	6.000	476.000-482.000	Mount's	Earth	3.00	Bad	-	-	-	-	-	-	Hearing
	3	7.710	482.000-489.710	Mount's	Gravel	4.00	Fair	-	-	-	-	-	-	Hearing

Bridge Data

Link section No.	Sub-section Bridge Name	Station (km)	Bridge		Carri- Side- Carri- ageway Walk		Bridge Damage		Approach Damage		Survey Method
			Type	Length (m)	Span Length (m)	Width (m)	Width slab (m)	Subst. (m)	MNL Side (m)	Opp. Side (m)	
03-28	1 KILING BRIDGE	469.751	Bailey	9.4	1x 9.4	3.94	-	-	-	-	Hearing
	1 PANTIKIAN BRIDGE	473.015	Bailey	12.3	1x12.3	3.94	-	-	-	-	Hearing

IFUGAO (04)



Total Length of Surveyed Roads by Surface Type/Condition/Carrigeway Width(W)

Province : Ifugao

Surface Type	Surface Condition	National Road			Provincial Road			Total		
		W<6.0m	W=6.0m	Total	W<6.0m	W=6.0m	Total	W<6.0m	W=6.0m	Total
Concrete	Good	-	46.4	46.4	-	-	-	-	46.4	46.4
	Fair	-	2.0	2.0	-	-	-	-	2.0	2.0
	Bad	-	-	-	-	-	-	-	-	-
	Very Bad	-	-	-	-	-	-	-	-	-
Total		-	48.4	48.4	-	-	-	-	48.4	48.4
Asphalt	Good	-	-	-	-	-	-	-	-	-
	Fair	0.9	-	0.9	-	-	-	0.9	-	0.9
	Bad	1.4	-	1.4	-	-	-	1.4	-	1.4
	Very Bad	-	-	-	-	-	-	-	-	-
Total		2.2	-	2.2	-	-	-	2.2	-	2.2
Gravel	Good	-	-	-	-	-	-	-	-	-
	Fair	43.4	5.6	49.0	-	-	-	43.4	5.6	49.0
	Bad	103.5	-	103.5	-	-	-	103.5	-	103.5
	Very Bad	-	-	-	-	-	-	-	-	-
Total		147.0	5.6	152.5	-	-	-	147.0	5.6	152.5
Earth	Good	-	-	-	-	-	-	-	-	-
	Fair	-	-	-	-	-	-	-	-	-
	Bad	-	-	-	-	-	-	-	-	-
	Very Bad	31.0	-	31.0	-	-	-	31.0	-	31.0
Total		31.0	-	31.0	-	-	-	31.0	-	31.0
Impassable		16.2	-	16.2	-	-	-	16.2	-	16.2
Total	Good	-	46.4	46.4	-	-	-	-	46.4	46.4
	Fair	44.3	7.5	51.8	-	-	-	44.3	7.5	51.8
	Bad	104.9	-	104.9	-	-	-	104.9	-	104.9
	Very Bad	31.0	-	31.0	-	-	-	31.0	-	31.0
Impassable		16.2	-	16.2	-	-	-	16.2	-	16.2
Total		196.5	53.9	250.4	-	-	-	196.5	53.9	250.4

Province : Ifugao
 Road Class : National
 Road Number : 04-21
 Road Name : Nueva Vizcaya-Ifugao-Mt. Prov. Bdry. Road
 Length : 71.644 km (From 290.556 km to 362.200 km)

Road Data

Link section No.	Sub-section No.	Length (km)	Station		Terrain	Carriageway		Shoulder/Sideawk		Substandard Alignment Section (m)	Disaster Potential Section		Survey Method
			from (km)	To (km)		Type	Width (m)	Type	Width (m)		Type (m)	Type (m)	
04-21A	1	0.874	290.556	291.430	Rolling	Concrete	6.70	Good	Gravel	1.50	-	-	Field
	2	4.280	291.430	295.710	Rolling	Concrete	6.70	Good	Gravel	1.50	-	-	Field
	3	3.020	295.710	298.730	Mount's	Concrete	6.70	Good	Gravel	1.50	CS 300	-	Field
	4	1.660	298.730	300.390	Flat	Concrete	6.70	Good	Gravel	1.50	-	-	Field
	5	9.350	300.390	309.740	Rolling	Concrete	6.70	Good	Earth	1.50	CS 800	-	Field
	6	5.060	309.740	314.800	Mount's	Concrete	6.70	Good	Gravel	1.50	CS 1500	-	Field
	7	2.050	314.800	316.850	Rolling	Concrete	6.70	Good	Gravel	1.50	-	-	Field
	8	0.380	316.850	317.230	Flat	Concrete	6.70	Good	Gravel	1.50	-	-	Field
	9	1.170	317.230	318.400	Flat	Concrete	6.70	Good	Gravel	1.00	-	-	Field
	10	3.800	318.400	322.200	Rolling	Concrete	6.70	Good	Gravel	1.00	-	-	Field
	11	1.950	322.200	324.150	Mount's	Concrete	6.70	Fair	Earth	1.00	-	-	Field
	12	9.050	324.150	333.200	Mount's	Concrete	6.70	Good	Gravel	1.00	CS 500	-	Field
	13	1.660	333.200	334.860	Rolling	Concrete	6.70	Good	Gravel	1.00	-	-	Field
	14	3.020	334.860	337.880	Rolling	Concrete	6.70	Good	Gravel	0.50	-	-	Field
	15	0.680	337.880	338.560	Rolling	Gravel	7.00	Fair	Gravel	-	-	-	Field
	16	0.870	338.560	339.430	Mount's	Gravel	6.00	Fair	Gravel	0.50	-	-	Field
	17	0.970	339.430	340.400	Mount's	Concrete	6.70	Good	Gravel	-	-	-	Field
	18	0.300	340.400	340.700	Mount's	Gravel	4.00	Bad	Gravel	0.50	-	-	Field
	04-21B	1	1.350	340.700	342.050	Mount's	Asphalt	4.00	Bad	-	1300	-	-
2		0.650	342.050	342.700	Mount's	Gravel	5.00	Bad	-	400	-	-	Field
3		1.400	342.700	345.700	Mount's	Gravel	7.00	Fair	-	200	CS 300	-	Field
04-21C	4	2.300	345.700	347.100	Mount's	Gravel	5.00	Fair	-	1000	-	-	Field
	5	4.400	347.100	349.400	Mount's	Gravel	5.00	Fair	-	2300	-	-	Field
	6	2.700	349.400	353.800	Mount's	Gravel	5.00	Fair	-	-	CS 100	ES 100	Field
	7	2.800	353.800	356.500	Mount's	Gravel	4.00	Fair	-	-	CS 100	ES 100	Field
	8	1.900	356.500	359.300	Mount's	Gravel	5.00	Fair	-	-	CS 800	ES 300	Field
	9	1.000	359.300	361.200	Mount's	Gravel	5.00	Fair	-	-	CS 300	ES 100	Field
			361.200	362.200	Mount's	Gravel	6.00	Fair	-	-	CS 100	ES 100	Field

Note : Disaster Type : CS=Cut Slope Damage, ES=Embankment Slope Damage, DF=Debris Flow, SR=Scour/Washout of Roadbed, FR=Flooding

Bridge Data

Link section No.	Sub-section No.	Bridge Name	Station (km)	Bridge Type	Bridge Length (m)	Span Length (m)		Carri- Side- ageway walk		Bridge Damage		Approach Damage		Survey Method
						Length	Width	Width	Width	Slab	Superst.	Subst.	MNL Side	
						(m)	(m)	(m)	(m)	(m)	(m)	(m)	(m)	
04-21A	1	LAMUT	290.556	Permanent	183.0	5x36.6	6.70	0.40	-	-	-	-	-	Field
	1	CAUJAYAN	291.146	Permanent	25.6	2x 8.0 1x 9.6	6.70	0.40	-	-	-	-	-	Field
04-21C	2	BANNIT	295.639	Permanent	21.3	1x21.3	6.70	0.40	-	-	-	-	-	Field
	3	PAYAWAN	297.681	Permanent	31.2	1x31.2	6.70	0.40	-	-	-	-	-	Field
	4	BOROG	299.391	Permanent	32.3	1x32.3	6.70	0.40	-	-	-	-	-	Field
	5	HALOG	303.096	Permanent	32.4	1x32.4	6.70	0.40	-	-	-	-	-	Field
	7	IBULAO	315.265	Permanent	140.0	8x17.5	6.70	0.40	-	-	-	-	-	Field
	9	BURNAY	317.289	Permanent	36.6	1x36.6	6.70	0.40	-	-	-	-	-	Field
	6	SUMIGAR	356.300	Permanent	15.0	1x15.0	6.70	0.40	-	-	-	-	-	Field

Province : Ifugao Road Number : 04-22 Road Name : Banawe-Hungduan-Benguet Bdry. Road
 Road Class : National Length : 44.167 km (From 342.050 km to 386.217 km)

Road Data

Link section No.	Sub-section No.	Length (km)	Station		Terrain	Carriageway		Shoulder/Sideek		Substandard		Alignment		Disaster Potential		Survey Method
			From (km)	To (km)		Type	Width (m)	Type	Width (m)	Type	Section (m)	Type	Section (m)	Type	Type (m)	
04-22	1	2.450	342.050	344.500	Mount's	Gravel	3.00	Fair	-	-	CS	200	ES	200	Field	
	2	22.748	344.500	367.248	Mount's	Gravel	3.00	Fair	-	-	-	-	-	-	Field	
	3	2.752	367.248	370.000	Mount's	Gravel	3.00	Fair	-	-	-	-	-	-	Field	
	4	16.217	370.000	386.217	Mount's	No Road	-	No Road	-	-	-	-	-	-	Field	

Note : Disaster Type : CS=Cut Slope Damage, ES=Embankment Slope Damage, DF=Debris Flow, SR=Scour/Washout of Roadbed, FR=Flooding

Province : Ifugao
 Road Class : National
 Road Number : 04-23
 Road Name : Banawe-Bayoyo-Potia-Isabela Bdry. Road
 Length : 100.569 km (From 340.700 km to 441.269 km)

Road Data

Link section No.	Sub-section Length (km)	Station (km)		Terrain	Carriageway		Shoulder/Sidewalk		Substandard Alignment Section (m)	Disaster Potential Section		Survey Method
		From	To		Type	Width (m)	Type	Width (m)		Type (m)	Type (m)	
04-23A	1	0.100	340.700-340.800	Mount's	Concrete	6.10	Good	Gravel	0.50	-	-	Field
	2	0.900	340.800-341.700	Mount's	Asphalt	3.00	Fair	Gravel	0.50	-	-	Field
	3	1.000	341.700-342.700	Flat	Gravel	2.50	Bad	-	-	1000	-	Field
	4	0.600	342.700-343.300	Rolling	Gravel	2.50	Bad	-	-	600	-	Field
	5	1.598	343.300-344.898	Mount's	Gravel	2.50	Bad	-	-	1598	-	Field
	6	86.478	344.898-431.376	Mount's	Gravel	3.00	Bad	-	-	5000	CS40000	Field
04-23B	1	9.893	431.376-441.269	Mount's	Gravel	3.00	Bad	-	-	4000	CS 1000	Field

Note : Disaster Type : CS=Cut Slope Damage, ES=Embankment Slope Damage, DF=Debris Flow, SR=Scour/Washout of Roadbed, FR=Flooding

Bridge Data

Link section No.	Sub-section Bridge Name	Station (km)	Bridge Type	Bridge Length (m)	Span Length (m)	Carriageway		Bridge Damage		Approach Damage		Survey Method
						Width (m)	Side Walk (m)	MHL Side (m)	Opp. Side (m)	MHL Side (m)	Opp. Side (m)	
04-23A	2 BANAUE	341.320	Permanent	18.3	1x18.3	6.70	0.50	-	-	-	-	Field
	6 HABANG	362.636	Bailey	54.0	18x 3.0	3.50	-	-	-	-	-	Field

Province : Ifugao
 Road Class : National
 Road Number : 04-24
 Road Name : Alfonso Lista Jct.-Mt. Province Bdry. Road
 Length : 34.020 km (From 431.376 km to 465.396 km)

Road Data

Link section No.	Sub-section No.	Length (km)	Station		Terrain	Carriageway		Shoulder/Side-wk		Substandard		Disaster Potential		Survey Method
			From (km)	To (km)		Type	Width (m)	Condition	Type	Width (m)	Alignment Section (m)	Section Type (m)	Type (m)	
04-24	1	7.624	431.376	439.000	Mount's	Earth	3.00	V.Bad	-	-	-	-	-	Hearing
	2	3.000	439.000	442.000	Mount's	Gravel	4.00	Bad	-	-	-	-	-	Hearing
	3	23.396	442.000	465.396	Mount's	Earth	3.00	V.Bad	-	-	-	-	-	Hearing

Bridge Data

Link section No.	Sub-section No.	Bridge Name	Station (km)	Bridge		Span		Carri- Side-		Bridge Damage		Approach Damage		Survey Method
				Type	Length (m)	Length (m)	Width (m)	ageway walk Width (m)	Slab	Superst. Subst.	MHL Side (m)	Opp. Side (m)		
04-24	1	SIBALON	435.166	Permanent	12.2	1x12.2	6.70	0.40	-	-	-	-	-	Hearing
	3	BUSILAC	443.148	Permanent	112.0	4x28.0	7.32	0.50	-	-	-	-	-	Hearing
	3	NAMULPUGAN	449.265	Bailey	20.0	1x20.0	3.50	-	-	-	-	-	-	Hearing
	3	COSILI	453.248	Bailey	42.7	1x42.7	3.50	-	-	-	-	-	-	Hearing

KALINGA - APAYAO (05)

Total Length of Surveyed Roads by Surface Type/Condition/Carriageway Width(W)

Province : Kalinga-Apayao

Surface Type	Surface Condition	National Road			Provincial Road			Total					
		W<6.0m	W=6.0m	W>6.0m	Total	W<6.0m	W=6.0m	W>6.0m	Total	W<6.0m	W=6.0m	W>6.0m	Total
Concrete	Good	-	6.2	-	6.2	-	-	-	-	-	-	6.2	6.2
	Fair	-	-	-	-	-	-	-	-	-	-	-	-
	Bad	-	-	-	-	-	-	-	-	-	-	-	-
	Very Bad	-	-	-	-	-	-	-	-	-	-	-	-
	Total	-	6.2	-	6.2	-	-	-	-	-	-	6.2	6.2
Asphalt	Good	-	0.2	-	0.2	-	-	-	-	-	-	0.2	0.2
	Fair	1.2	1.5	-	2.7	-	-	-	-	1.2	1.5	-	2.7
	Bad	-	2.7	-	2.7	-	-	-	-	-	2.7	-	2.7
	Very Bad	0.3	0.9	-	1.2	-	-	-	-	0.3	0.9	-	1.2
	Total	1.5	5.3	-	6.8	-	-	-	-	1.5	5.3	-	6.8
Gravel	Good	-	-	-	-	-	-	-	-	-	-	-	-
	Fair	74.3	64.5	-	138.8	-	-	-	-	74.3	64.5	-	138.8
	Bad	114.6	56.7	-	171.2	-	-	-	-	114.6	56.7	-	171.2
	Very Bad	-	-	-	-	-	-	-	-	-	-	-	-
	Total	188.9	121.2	-	310.0	-	-	-	-	188.9	121.2	-	310.0
Earth	Good	-	-	-	-	-	-	-	-	-	-	-	-
	Fair	-	-	-	-	-	-	-	-	-	-	-	-
	Bad	4.7	-	-	4.7	-	-	-	-	4.7	-	-	4.7
	Very Bad	75.7	2.7	-	78.4	8.0	-	-	8.0	83.7	2.7	-	86.4
	Total	80.4	2.7	-	83.1	8.0	-	-	8.0	88.4	2.7	-	91.1
	Impassable	181.8	-	-	181.8	-	-	-	-	181.8	-	-	181.8
Total	Good	-	6.4	-	6.4	-	-	-	-	-	-	6.4	6.4
	Fair	75.6	66.0	-	141.5	-	-	-	-	75.6	66.0	-	141.5
	Bad	119.3	59.4	-	178.7	-	-	-	-	119.3	59.4	-	178.7
	Very Bad	76.0	3.6	-	79.6	8.0	-	-	8.0	84.0	3.6	-	87.6
	Impassable	181.8	-	-	181.8	-	-	-	-	181.8	-	-	181.8
	Total	452.6	135.4	-	588.0	8.0	-	-	8.0	460.6	135.4	-	596.0

Province : Kalinga-Apayao Road Number : 05-21 Road Name : Kalinga-Cagayan Bdry. Road
 Road Class : National Length : 15.068 km (From 421.925 km to 536.993 km)

Road Data

Link section No.	Sub-section No.	Length (km)	Station		Terrain	Carriageway			Shoulder/Side-walk	Substandard Alignment Section (m)	Disaster - Potential Section		Survey Method
			From (km)	To (km)		Type	Width (m)	Condition			Type (m)	Type (m)	
05-21A	1	17.062	421.925	438.987	Mount's	Gravel	3.50	Bad	-	-	-	Field	
	2	6.731	438.987	445.718	Mount's	Gravel	3.50	Bad	-	-	-	Field	
	3	2.467	445.718	448.185	Mount's	Gravel	3.50	Fair	-	-	-	Field	
	4	3.365	448.185	451.550	Mount's	Gravel	4.00	Bad	-	-	CS 2300	Field	
	5	5.272	451.550	456.822	Mount's	Gravel	4.00	Bad	-	-	DF 100	Field	
	6	3.141	456.822	459.963	Mount's	Gravel	5.00	Bad	-	-	ES 1000	Field	
	7	0.336	459.963	460.299	Rolling	Gravel	4.00	Bad	-	-	-	Field	
	8	2.244	460.299	462.543	Rolling	Gravel	5.00	Fair	-	-	CS 500	Field	
05-21B	9	1.907	462.543	464.450	Mount's	Gravel	4.00	Bad	-	-	DF 50	Field	
	1	3.936	464.450	468.386	Rolling	Gravel	4.00	Bad	-	-	CS 200	Field	
	2	1.728	468.386	470.114	Rolling	Gravel	5.00	Bad	-	-	CS 1100	Field	
	3	3.889	470.114	474.003	Rolling	Gravel	4.00	Bad	-	-	DF 100	Field	
05-21C	4	2.544	474.003	476.547	Rolling	Gravel	5.00	Bad	-	-	CS 400	Field	
	5	5.472	476.547	482.019	Rolling	Gravel	4.00	Fair	-	-	DF 100	Field	
	6	2.016	482.019	484.035	Rolling	Gravel	4.00	Bad	-	-	CS 800	Field	
	7	3.649	484.035	487.684	Rolling	Gravel	6.00	Fair	-	-	ES 550	Field	
	8	1.248	487.684	488.932	Flat	Gravel	4.00	Fair	-	-	DF 150	Field	
	9	1.248	488.932	490.180	Flat	Gravel	8.00	Fair	-	-	CS 500	Field	
	10	1.248	490.180	491.428	Flat	Gravel	8.00	Fair	-	-	-	Field	
	11	0.384	491.428	491.812	Flat	Gravel	8.00	Fair	-	-	-	Field	
	12	1.056	491.812	492.868	Flat	Gravel	4.00	Fair	-	-	-	Field	
	13	1.728	492.868	494.596	Rolling	Gravel	5.00	Fair	-	-	-	Field	
	14	1.344	494.596	495.940	Rolling	Gravel	8.00	Fair	-	-	CS 1000	Field	
	15	0.288	495.940	496.228	Rolling	Asphalt	5.00	V.Bad	-	-	-	Field	
	1	5.200	496.228	501.428	Flat	Gravel	6.00	Fair	Gravel	1.00	-	Field	
	2	4.972	501.428	506.400	Flat	Gravel	5.00	Fair	-	-	-	Hearing	
	3	8.200	506.400	514.600	Flat	Gravel	5.00	Fair	-	-	-	Hearing	
4	9.100	514.600	523.700	Rolling	Gravel	5.00	Fair	-	-	-	Field		
05-21D	1	9.300	523.700	533.000	Mount's	Gravel	4.50	Bad	-	-	-	Field	
	2	3.993	533.000	536.993	Mount's	Gravel	4.00	Fair	-	-	-	Hearing	

Note : Disaster Type : CS=Cut Slope Damage, ES=Embankment Slope Damage, DF=Debris Flow, SR=Scour/Washout of Roadbed, FR=Flooding

Bridge Data

Link section No.	Sub-section No.	Bridge Name	Station (km)	Bridge Type	Bridge Length (m)	Span Length (m)	Carri- Side- ageway walk		Bridge Damage		Approach Damage		Survey Method
							Width (m)	Width (m)	Slab Superst.	Subst.	MHL Side (m)	Opp. Side (m)	
05-21A	1	MABAGA	421.935	Bailey	9.1	1x 9.1	3.50						Field
	1	MABANGIS	425.105	Bailey	24.4	1x24.4	3.50						Field
	1	MAKILOLOR	426.237	Bailey	15.3	1x15.3	3.50						Hearing
	1	BASAO	431.106	Bailey	12.2	1x12.2	3.50						Hearing
	1	PUTTOT	435.741	Bailey	36.6	1x36.6	3.50						Hearing
	1	TINGLAYAN	437.424	Bailey	42.7	1x42.7	3.50						Hearing
	2	WALLIS	440.864	Bailey	18.5	1x18.5	3.50						Hearing
	2	LANGSO	443.345	Bailey	18.3	1x18.3	3.50						Hearing
	4	UYUCAN	450.807	Permanent	6.0	1x 6.0	6.70						Field
	3	PASIL	470.500	Bailey	89.3	1x89.3	3.50						Field
05-21B	3	DAO	472.400	Bailey	18.0	1x18.0	3.50						Field
	4	PANTIKING	473.480	Permanent	16.0	1x16.0	6.70	0.40					Field
	4	BAGOMBONG	475.380	Bailey	27.5	1x27.5	3.50						Field
	5	CABAET	476.805	Permanent	16.0	1x16.0	6.70	0.40					Field
	5	GAWIDAN	478.410	Permanent	12.0	1x12.0	6.70	0.40					Field
	5	GAPANG	481.200	Permanent	30.0	1x30.0	6.70	0.40					Field
	8	PINAGAN	487.927	Permanent	21.0	1x21.0	6.70	0.40					Field
	9	UMALDOG I	489.831	Permanent	12.0	1x12.0	6.70	0.40					Field
	9	UMALDOG II	489.864	Permanent	6.0	1x 6.0	6.70	0.40					Field
	9	MATADDONG	490.073	Permanent	16.0	1x16.0	6.70	0.40					Field
05-21C	1	TULYAO	498.561	Permanent	24.0	1x24.0	6.70	0.40					Hearing
	2	TANIOC	501.428	Permanent	15.4	1x15.4	6.70	0.40					Hearing
	2	BRIDGE	504.228	Permanent	6.0	1x 6.0	6.70	0.30					Hearing
	3	TUGA	509.028	Bailey	40.0	1x40.0	3.50						Hearing
	3	MASABLANG	512.228	Permanent	30.0	1x30.0	6.70	0.40					Hearing
	3	NAMALITUCAN	513.928	Bailey	9.1	1x 9.1	3.50						Hearing
	4	MAPACO	514.728	Permanent	30.0	1x30.0	6.70	0.40					Hearing
	4	CANALIG I	516.365	Bailey	6.1	1x 6.1	3.50						Hearing
	4	CANALIG II	516.858	Permanent	24.0	1x24.0	6.70	0.40					Hearing
	4	MANANEG	521.228	Permanent	39.0	3x13.0	6.70	0.40					Hearing
4	SALTAN	523.328	Permanent	211.8	6x35.3	4.30	0.40					Hearing	

Province : Kalinga-Apayao Road Number : 05-22 Road Name : Cagatuan-Pantikian-Abra Bdry. Road
 Road Class : National Length : 64.350 km (From 464.480 km to 528.830 km)

Road Data

Link section No.	Sub-section No.	Length (km)	Station		Terrain	Carriageway			Shoulder/Side-wk Substandard Disastard			Potential Section	Survey Method
			From (km)	To (km)		Type	Width (m)	Condition	Type	Width (m)	Type (m)		
05-22A	1	15.200	464.480	479.680	Mount's	Gravel	5.00	U-const	-	-	-	-	Hearing
05-22B	1	0.320	479.680	480.000	Mount's	Gravel	4.00	U-const	-	-	-	-	Hearing
	2	48.830	480.000	528.830	Mount's	Gravel	4.00	Bad	-	-	-	-	Hearing

Bridge Data

Link section No.	Sub-section No.	Bridge Name	Station (km)	Bridge		Span		Carri- Side- ageway		Bridge Damage		Approach Damage		Survey Method
				Type	Length (m)	Length (m)	Width (m)	Width (m)	Slab	Superst. Subst.	MWL Side (m)	Opp. Side (m)		
05-22A	1	ABLEG I	469.580	Bailey	9.1	1x	9.1	3.60	-	-	-	-	-	Hearing
	1	ABLEG II	469.629	Bailey	24.9	1x	24.9	3.60	-	-	-	-	-	Hearing
	1	LIMOOD	473.730	Bailey	12.2	1x	12.2	3.60	-	-	-	-	-	Hearing
05-22B	1	COLAT	475.016	Bailey	9.1	1x	9.1	3.60	-	-	-	-	-	Hearing
	1	GADAY	478.285	Bailey	12.2	1x	12.2	3.60	-	-	-	-	-	Hearing
	2	SALENG	485.305	Bailey	9.1	1x	9.1	3.60	-	-	-	-	-	Hearing
	2	MATACOB	490.825	Bailey	18.3	1x	18.3	3.60	-	-	-	-	-	Hearing
	2	MAI	494.330	Bailey	6.1	1x	6.1	3.60	-	-	-	-	-	Hearing
	2	BINWAAN	498.040	Bailey	12.0	1x	12.0	3.60	-	-	-	-	-	Hearing
	2	BIYAO	504.337	Bailey	21.3	1x	21.3	3.60	-	-	-	-	-	Hearing
	2	MALCAGAO	508.507	Bailey	15.3	1x	15.3	3.60	-	-	-	-	-	Hearing
	2	SALTAN	514.657	Bailey	24.4	1x	24.4	3.60	-	-	-	-	-	Hearing
	2	MAATAP	515.365	Bailey	12.2	1x	12.2	3.60	-	-	-	-	-	Hearing
2	IBONG	518.226	Bailey	18.3	1x	18.3	3.60	-	-	-	-	-	Hearing	
2	OLING	519.220	Bailey	18.3	1x	18.3	3.60	-	-	-	-	-	Hearing	

Province : Kalings-Apayao Road Number : 05-23 Road Name : Calanan-Masablang-Abbot Road
 Road Class : National Length : 30.872 km (From 496.228 km to 527.100 km)

Road Data

Link section No.	Sub-section No.	Length (km)	Station (km)		Terrain	Carriageway		Shoulder/Side-walk		Substandard Alignment Section (m)	Disaster Potential Section		Survey Method	
			From	To		Type	Width (m)	Type	Width (m)		Type (m)	Type (m)		
05-23A	1	0.890	496.228	497.118	Flat	Asphalt	6.00	V.Bad	Gravel	1.00	CS	200	Field	
	2	1.242	497.118	498.360	Rolling	Asphalt	5.00	Fair	Earth	1.00	-	-	Field	
	3	0.776	498.360	499.136	Rolling	Asphalt	6.00	Bad	Gravel	1.00	-	-	Field	
	4	0.195	499.136	499.331	Rolling	Asphalt	6.10	Good	Gravel	1.00	-	-	Field	
	5	0.533	499.331	499.864	Rolling	Concrete	6.10	Good	Gravel	1.00	-	-	Field	
	6	0.436	499.864	500.300	Flat	Concrete	6.10	Good	Concrete	2.00	-	-	Field	
05-23B	1	0.426	500.300	500.726	Flat	Concrete	6.10	Good	Concrete	1.00	-	-	Field	
	2	1.489	500.726	502.215	Rolling	Asphalt	6.00	Fair	Gravel	1.00	-	-	Field	
	3	1.150	502.215	503.365	Rolling	Asphalt	6.10	Bad	Earth	1.00	-	-	Field	
	4	0.383	503.365	503.748	Mount's	Gravel	8.20	Fair	-	-	-	-	Field	
	5	0.766	503.748	504.514	Flat	Asphalt	6.10	Bad	-	-	-	-	Field	
	6	1.532	504.514	506.046	Flat	Gravel	10.00	Fair	Gravel	1.00	-	-	Field	
05-23C	7	0.958	506.046	507.004	Rolling	Gravel	10.00	Fair	-	-	-	-	Field	
	8	1.054	507.004	508.058	Mount's	Gravel	6.50	Fair	-	-	-	-	Field	
	9	0.862	508.058	508.920	Flat	Gravel	12.00	Fair	-	-	-	-	Field	
	1	1.940	508.920	510.860	Flat	Gravel	10.00	Fair	-	-	-	-	Field	
	2	0.574	510.860	511.434	Mount's	Gravel	6.50	Fair	-	-	CS	150	ES 100	Field
	3	1.258	511.434	512.692	Rolling	Gravel	9.70	Fair	-	-	CS	350	ES 50	Field
	4	2.804	512.692	515.496	Mount's	Gravel	6.75	Fair	-	-	CS	150	ES 600	Field
	5	2.611	515.496	518.107	Mount's	Gravel	6.50	Fair	-	-	-	-	-	Field
	6	1.450	518.107	519.557	Rolling	Gravel	6.50	Fair	-	-	-	-	-	Field
	7	2.853	519.557	522.410	Rolling	Gravel	9.50	Fair	-	-	-	-	-	Field
	8	0.242	522.410	522.652	Flat	Gravel	6.10	Good	Gravel	1.50	-	-	-	Field
	9	0.483	522.652	523.135	Flat	Concrete	6.10	Good	Earth	1.50	-	-	-	Field
10	1.934	523.135	525.069	Flat	Gravel	9.60	Fair	-	-	-	-	-	Field	
11	1.354	525.069	526.423	Flat	Concrete	6.10	Good	-	-	-	-	-	Field	
12	0.677	526.423	527.100	Flat	Concrete	6.10	Good	Earth	1.50	-	-	-	Field	

Note : Disaster Type : CS=Cut Slope Damage, ES=Embankment Slope Damage, DF=Debris Flow, SR=Scour/Washout of Roadbed, FR=Flooding

Bridge Data

Link section No.	Sub-section No.	Bridge Name	Station (km)	Bridge		Span		Carri-Side- ageway walk		Bridge Damage		Approach Damage		Survey Method
				Type	Length (m)	Length (m)	Width (m)	Width (m)	Slab	Superst.	MNL Side	Opp. Side	Side	
05-23A	2	PASONGLAO	497.415	Permanent	261.0	5x52.2	4.25	-	-	-	-	-	-	Field
	3	BULANAO I	498.563	Permanent	28.0	1x28.0	6.70	0.30	-	-	-	-	-	Field
	5	BULANAO II	499.468	Permanent	24.0	1x24.0	6.70	0.30	-	-	-	-	-	Field
05-23B	2	BALIGATAN	500.930	Permanent	14.0	1x14.0	6.70	0.30	-	-	-	-	-	Field

Bridge Data (Continued)

Link section No.	Sub-section Bridge Name	Station (km)	Bridge Type	Bridge Length (m)	Span Length (m)	Carri- Side- age way walk		Bridge Damage			Approach Damage		Survey Method	
						Width (m)	Width (m)	Slab	Superst.	Subst.	MNL Side (m)	Opp. Side (m)		Side (m)
05-23B	8 ALILOG	507.999	Permanent	57.6	1x20.0 2x18.8	6.70	0.30	-	-	-	-	-	-	Field
05-23C	2 NAMBARAN	511.206	Permanent	39.0	2x12.0	6.70	0.30	-	-	-	-	-	-	Field
	4 ELEB	513.135	Permanent	24.0	1x15.0 2x12.0	6.70	0.30	-	-	-	-	-	-	Field

Province : Kalinga-Apayao Road Number : 05-24 Road Name : Bulanao-Paracelis Road
 Road Class : National Length : 17.770 km (From 499.900 km to 517.670 km)

Road Data

Link section No.	Sub-section No.	Length (km)	Station		Terrain	Carriageway			Shoulder/sidealk		Substandard Alignment Section (m)	Disaster Potential Section		Survey Method
			From (km)	To (km)		Type	Width (m)	Condition	Type	Width (m)		Type (m)	Type (m)	
05-24	1	0.206	499.900	500.106	Rolling	Concrete	6.10	Good	Concrete	1.50	-	-	-	Field
	2	1.550	500.106	501.656	Rolling	Concrete	6.10	Good	Gravel	1.00	100	ES 100	-	Field
	3	1.860	501.656	503.516	Rolling	Gravel	6.50	Fair	-	-	-	-	-	Field
	4	5.372	503.516	508.888	Mount's	Gravel	4.00	Fair	-	-	200	ES 250	-	Field
	5	1.033	508.888	509.921	Mount's	Gravel	4.00	Fair	-	-	-	-	-	Field
	6	2.377	509.921	512.298	Mount's	Gravel	4.00	Bad	-	-	2100	CS 700	ES 1600	Field
	7	0.878	512.298	513.176	Mount's	Gravel	4.00	Bad	-	-	100	CS 200	ES 400	Field
	8	1.188	513.176	514.364	Flat	Gravel	6.00	Bad	-	-	-	-	-	Field
	9	1.240	514.364	515.604	Rolling	Gravel	4.00	Bad	-	-	-	-	-	Field
	10	0.723	515.604	516.327	Rolling	Earth	3.00	Bad	-	-	-	-	-	Field
	11	1.343	516.327	517.670	Mount's	No Road	-	No Road	-	-	-	-	-	-

Note : Disaster Type : CS=Cut Slope Damage, ES=Embankment Slope Damage, DF=Debris Flow, SR=Scour/Washout of Roadbed, FR=Flooding

Bridge Data

Link section No.	Sub-section No.	Bridge Name	Station (km)	Bridge Type	Bridge Length (m)	Span Length (m)	Carri- Side- ageway walk Width (m)	Bridge Damage		Approach Damage		Survey Method
								Slab Superst. (m)	Subst. (m)	MNL Side (m)	Opp. Side (m)	
05-24	6	CANAGONAN	512.125	Bailey	9.1	1x 9.1	3.50	-	High	Low	-	Field
	6	MAGABBANGON	511.775	Bailey	15.3	1x15.3	3.50	-	High	Low	-	Field
	11	MALLIG RIVER	517.100	Ford Cr.	50.0	-	-	-	-	-	-	Field
11	CALLACAD	516.610	Permanent	45.0	3x15.0	4.00	0.30	-	-	-	-	Field

Province : Kalinga-Apayao Road Number : 05-25 Road Name : Manbaran-Agbannawag Road
 Road Class : National Length : 16.319 km (From 508.920 km to 525.239 km)

Road Data

Link section No.	Sub-section No.	Length (km)	Station		Terrain	Carriageway		Shoulder/Side-walk		Substandard Alignment		Disaster Potential Section		Survey Method
			From (km)	To (km)		Type	Width (m)	Condition	Type	Width (m)	Section (m)	Type (m)	Type (m)	
05-25	1	2.085	508.920	511.005	Flat	Gravel	8.00	Fair	-	-	-	-	Field	
	2	0.695	511.005	511.700	Mount's	Gravel	6.00	Fair	-	-	-	-	Field	
	3	1.968	511.700	513.668	Flat	Gravel	6.50	Fair	-	-	-	-	Field	
	4	4.865	513.668	518.533	Flat	Gravel	9.00	Fair	-	-	-	-	Field	
	5	1.621	518.533	520.154	Rolling	Gravel	8.00	Fair	-	-	-	-	Field	
	6	1.159	520.154	521.313	Rolling	Gravel	5.00	Fair	-	-	-	-	Field	
	7	3.127	521.313	524.440	Rolling	Gravel	6.00	Fair	-	-	-	-	Field	
	8	0.799	524.440	525.239	Rolling	Gravel	5.00	Fair	-	-	-	-	Field	

Bridge Data

Link section No.	Sub-section No.	Bridge Name	Station (km)	Bridge Type	Bridge Length (m)	Span Length (m)	Carri- Side- ageway walk		Bridge Damage		Approach Damage	Survey Method
							Width (m)	Width (m)	Slab	Superst. Subst. MNL Side (m)		
05-25	3	LACNOG	513.195	Permanent	48.0	1x20.0	6.70	0.30	-	-	-	Field
						2x14.0						
	7	PACAK	521.845	Permanent	20.0	1x20.0	6.70	0.30	-	-	-	Field

Province : Kalinga-Apayao Road Number : 05-26 Road Name : Balbalan-Pinukpuk Jct. Road
 Road Class : National Length : 43.793 km (From 479.680 km to 523.473 km)

Road Data

Link section No.	Sub-section No.	Length (km)	Station		Terrain	Carriageway		Shoulder/Side-walk		Substandard		Disaster Potential		Survey Method
			From (km)	To (km)		Type	Width (m)	Condition	Type	Width (m)	Alignment Section (m)	Type (m)	Type (m)	
05-26	1	22.220	479.680	501.900	Mount's		No Road							
	2	11.600	501.900	513.500	Mount's	Earth	4.00	V.Bad						Hearing
	3	9.973	513.500	523.473	Mount's	Gravel	5.00	Fair						Hearing

Bridge Data

Link section No.	Sub-section No.	Bridge Name	Station (km)	Bridge Type	Bridge Length (m)	Span Length (m)	Carri- Side- age-way walk		Bridge Damage		Approach Damage		Survey Method
							Width (m)	Slab Width (m)	Superst. (m)	Subst. (m)	MNL Side (m)	Opp. Side (m)	
05-26	2	YAGA	513.300	Bailey	12.0	1x12.0	3.50						Field
	3	CAMCAYAN	522.321	Bailey	18.3	1x18.3	3.50						Field
	3	CAPAGAN	523.455	Bailey	24.4	1x24.4	3.50						Field

Province : Kalinga-Apayao
Road Class : National

Road Number : 05-27 Road Name : Abbut-Conner-Kabugao-Calahanan Road
Length : 150.000 km (From 539.500 km to 689.500 km)

Road Data

Link No.	Sub-section No.	Link section Length (km)	Station		Terrain	Carriageway			Shoulder/Sideek			Substandard			Disaster Potential			Survey Method
			From (km)	To (km)		Type	Width (m)	Condition	Type	Width (m)	Alignment Section (m)	Type (m)	Width (m)	Type (m)	Section	Type (m)	Section	
05-27A	1	51.900	539.500	591.400	Mount's	Gravel	6.00	Bad	-	-	-	-	-	-	-	-	-	Hearing
	2	17.800	591.400	609.200	Mount's	Earth	4.00	V.Bad	-	-	-	-	-	-	-	-	-	Hearing
05-27B	1	6.300	609.200	615.500	Mount's	Earth	4.00	V.Bad	-	-	-	-	-	-	-	-	-	Hearing
	2	4.000	615.500	619.500	Mount's	Earth	4.00	Bad	-	-	-	-	-	-	-	-	-	Hearing
	3	23.000	619.500	642.500	Mount's	No Road	-	No Road	-	-	-	-	-	-	-	-	-	Hearing
05-27C	1	47.000	642.500	689.500	Mount's	No Road	-	No Road	-	-	-	-	-	-	-	-	-	Hearing

Bridge Data

Link No.	Sub-section No.	Link section Bridge Name	Station (km)	Bridge		Span		Carri- Side-		Bridge Damage		Approach Damage		Survey Method
				Type	Length (m)	Length (m)	Length (m)	Width (m)	Width (m)	Width Slab (m)	Superst. (m)	Subst. (m)	MHL Side (m)	
05-27A	1	LINDAWAN	541.137	Permanent	18.0	1x18.0	7.32	0.45	-	-	-	-	-	Hearing
	1	KARIKITAN	554.236	Permanent	20.0	1x20.0	7.32	0.45	-	-	-	-	-	Hearing
	1	BANGAD	556.299	Permanent	20.0	1x20.0	7.32	0.45	-	-	-	-	-	Hearing
	1	DANGINAN	558.059	Permanent	8.0	1x 8.0	7.32	0.45	-	-	-	-	-	Hearing
	1	GANGAT	561.812	Permanent	16.0	1x16.0	7.75	0.45	-	-	-	-	-	Hearing
	1	MABUBUA	564.907	Permanent	24.0	2x12.0	7.32	0.45	-	-	-	-	-	Hearing
	1	MATALAG	570.306	Bailey	37.2	1x37.2	4.50	-	-	-	-	-	-	Hearing
	1	BULUGA	571.256	Permanent	21.0	1x21.0	6.70	0.40	-	-	-	-	-	Hearing
	1	PURAG	576.941	Permanent	54.0	4x13.5	6.70	0.40	-	-	-	-	-	Hearing
	1	LITTUGA	589.427	Bailey	12.0	1x12.0	4.50	-	-	-	-	-	-	Hearing
05-27B	3	No Bridge	623.500	None	10.0	-	-	-	-	-	-	-	-	Hearing
	3	No Bridge	629.800	None	10.0	-	-	-	-	-	-	-	-	Hearing
	3	No Bridge	633.000	None	10.0	-	-	-	-	-	-	-	-	Hearing
	3	No Bridge	634.600	None	10.0	-	-	-	-	-	-	-	-	Hearing
	3	No Bridge	636.800	None	10.0	-	-	-	-	-	-	-	-	Hearing
	3	No Bridge	637.300	None	10.0	-	-	-	-	-	-	-	-	Hearing
05-27C	1	No Bridge	650.000	None	15.0	-	-	-	-	-	-	-	-	Hearing
	1	No Bridge	653.000	None	90.0	-	-	-	-	-	-	-	-	Hearing
	1	No Bridge	663.000	None	10.0	-	-	-	-	-	-	-	-	Hearing
	1	No Bridge	679.500	None	10.0	-	-	-	-	-	-	-	-	Hearing
	1	No Bridge	683.500	None	10.0	-	-	-	-	-	-	-	-	Hearing
	1	No Bridge	685.500	None	10.0	-	-	-	-	-	-	-	-	Hearing
	1	No Bridge	686.500	None	10.0	-	-	-	-	-	-	-	-	Hearing

Province : Kalinga-Apayao Road Number : 05-28 Road Name : Kabugao-Pudtol-Luna-Cagayan Bdry. Road
 Road Class : National Length : 73.800 km (From 609.200 km to 683.000 km)

Road Data

Link section No.	Sub-section No.	Link section Length (km)	Station		Terrain	Carrigeaway		Shoulder/Sidewk		Substandard Alignment		Disaster Potential		Survey Method
			From (km)	To (km)		Type	Width (m)	Condition	Type	Width (m)	Section (m)	Type (m)	Section (m)	
05-28	1	1.200	609.200	610.400	Mount's	Earth	6.00	V.Bad	-	-	-	-	Hearing	
	2	52.200	610.400	662.600	Mount's	No Road	-	-	-	-	-	-	Hearing	
	3	1.500	662.600	664.100	Mount's	Earth	6.00	V.Bad	-	-	-	-	Hearing	
	4	3.600	664.100	667.700	Mount's	Gravel	6.00	Bad	-	-	-	-	Hearing	
	5	14.000	667.700	681.700	Rolling	Gravel	6.00	Fair	-	-	-	-	Hearing	
	6	1.300	681.700	683.000	Flat	Gravel	6.00	Fair	-	-	-	-	Hearing	

Bridge Data

Link section No.	Sub-section No.	Bridge Name	Station (km)	Bridge		Span Length		Carri- side- ageway Walk		Bridge Damage		Approach Damage		Survey Method
				Type	Length (m)	Length (m)	Width (m)	Width (m)	Slab	Superst. Subst. (m)	MNL Side (m)	Opp. Side (m)		
05-28	2	FORD I	615.200	Ford Cr.	800.0	-	-	-	-	-	-	-	-	Hearing
	2	FORD II	623.200	Ford Cr.	300.0	-	-	-	-	-	-	-	-	Hearing
	4	PUDTOL	666.400	Permanent	24.0	1x24.0	6.70	0.40	-	-	-	-	-	Hearing
	5	CABATACAN	669.121	Bailey	18.0	1x18.0	4.20	-	-	-	-	-	-	Hearing
	5	NEGRE	672.261	Timber	7.0	1x 7.0	4.20	-	-	-	-	-	-	Hearing
	5	MARABUTAB	675.023	Bailey	15.0	1x15.0	4.20	-	-	-	-	-	-	Hearing
	5	TUMOG	675.480	Timber	42.0	1x42.0	4.20	-	-	-	-	-	-	Hearing
	5	SAN ISIDRO I	679.130	Timber	12.0	1x12.0	4.20	-	-	-	-	-	-	Hearing
	5	SAN ISIDRO II	679.831	Timber	9.0	1x 9.0	4.20	-	-	-	-	-	-	Hearing

Province : Kalinga-Apayao
 Road Class : National

Road Number : 05-29
 Length : 76.000 km (From 644.000 km to 720.000 km)

Road Name : Namaltugan-Calanasan-Claveria Road
 Length : 76.000 km (From 644.000 km to 720.000 km)

Road Data

Link section No.	Sub-section No.	Length (km)	Station (km)		Terrain	Carriageway		Shoulder/Sidewalk		Substandard Alignment Section		Disaster Potential Section		Survey Method
			From	To		Type	Width (m)	Type	Width (m)	Type	Width (m)	Type	Width (m)	
05-29	1	36.000	644.000	680.000	Mount's									
	2	10.000	680.000	690.000	Mount's	Earth	3.00	No Road						Hearing
	3	30.000	690.000	720.000	Mount's	Earth	4.00	V.Bad						Hearing

Bridge Data

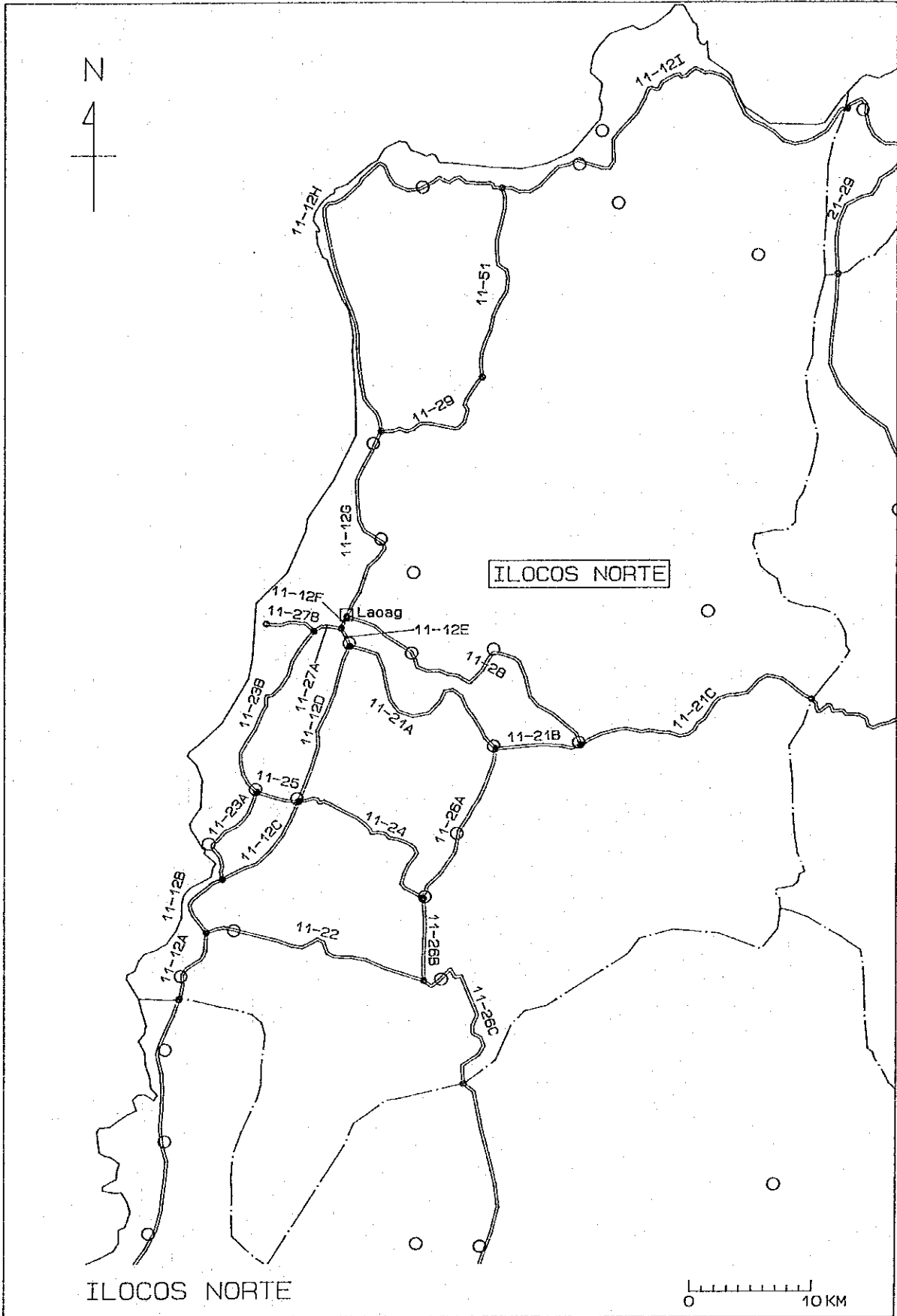
Link section No.	Sub-section No.	Bridge Name	Station (km)	Bridge		Span		Carri-Side- ageway walk		Bridge Damage		Approach Damage		Survey Method
				Type	Length (m)	Length (m)	Width (m)	Width (m)	Slab	Superst.	Subst.	MHL Side (m)	Opp. Side (m)	
05-29	1	RIVER 1	644.500	Ford Cr.	300.0									Hearing
	1	RIVER 2	667.400	Ford Cr.	30.0									Hearing
	3	RIVER 3	697.200	Ford Cr.	30.0									Hearing

Province : Kalinga-Apayao Road Number : 05-51 Road Name : Mamaltugan-Malita-Solsona Road
 Road Class : Provincial Length : 8.000 km (From 642.000 km to 650.000 km)

Road Data

Sub- Link No.	Section Length (km)	Station		Terrain		Carriageway		Shoulder/Sidealk		Substandard		Disaster Potential		Survey Method
		From (km)	To (km)	Type	Width (m)	Condition	Type	Width (m)	Alignment Section (m)	Type (m)	Type (m)			
05-51	1	8.000	642.000-650.000	Mount's	Earth	4.00	V.Bad	-	-	-	-	-	-	Hearing

ILOCOS NORTE (11)



Total Length of Surveyed Roads by Surface Type/Condition/Carriageway Width(W)

Province : Ilocos Norte

Surface Type	Surface Condition	National Road			Provincial Road			Total		
		W<6.0m	W=6.0m	Total	W<6.0m	W=6.0m	Total	W<6.0m	W=6.0m	Total
Concrete	Good	-	219.8	219.8	-	-	-	-	219.8	219.8
	Fair	-	15.7	15.7	-	-	-	-	15.7	15.7
	Bad	-	-	-	-	-	-	-	-	-
	Very Bad	-	-	-	-	-	-	-	-	-
Total		-	235.5	235.5	-	-	-	-	235.5	235.5
Asphalt	Good	-	26.0	26.0	-	-	-	-	26.0	26.0
	Fair	-	20.2	20.2	-	-	-	-	20.2	20.2
	Bad	0.7	1.1	1.8	-	-	-	0.7	1.1	1.8
	Very Bad	-	-	-	-	-	-	-	-	-
Total		0.7	47.2	47.9	-	-	-	0.7	47.2	47.9
Gravel	Good	-	-	-	-	-	-	-	-	-
	Fair	2.1	30.2	32.3	-	-	-	2.1	30.2	32.3
	Bad	6.3	5.6	11.8	-	-	-	6.3	5.6	11.8
	Very Bad	-	-	-	-	-	-	-	-	-
Total		8.4	35.7	44.1	-	-	-	8.4	35.7	44.1
Earth	Good	-	-	-	-	-	-	-	-	-
	Fair	-	-	-	-	-	-	-	-	-
	Bad	3.9	-	3.9	1.0	-	1.0	4.9	-	4.9
	Very Bad	10.0	-	10.0	-	-	-	10.0	-	10.0
Total		13.9	-	13.9	1.0	-	1.0	14.9	-	14.9
Impassable		25.7	-	25.7	25.0	-	25.0	50.7	-	50.7
Total	Good	-	245.8	245.8	-	-	-	-	245.8	245.8
	Fair	2.1	66.1	68.2	-	-	-	2.1	66.1	68.2
	Bad	10.9	6.6	17.5	1.0	-	1.0	11.9	6.6	18.5
	Very Bad	10.0	-	10.0	-	-	-	10.0	-	10.0
	Impassable	25.7	-	25.7	25.0	-	25.0	50.7	-	50.7
Total		48.7	318.5	367.2	26.0	-	26.0	74.7	318.5	393.2

Province : Ilocos Norte
 Road Class : National
 Road Number : 11-12
 Road Name : Manila North Road
 Length : 144.692 km (From 444.370 km to 589.062 km)

Road Data

Link section No.	Sub- No.	Length (km)	Station		Terrain	Carriageway		Shoulder/Sideak		Substandard Alignment		Disaster Potential Section		Survey Method
			From (km)	To (km)		Type	Width (m)	Type	Width (m)	Type (m)	Type (m)			
11-12A	1	2.095	444.370	446.465	Rolling	Concrete	6.70	Good	Asphalt	1.00	-	-	Field	
	2	6.285	446.465	452.750	Flat	Concrete	6.70	Good	Asphalt	1.00	-	-	Field	
	1	3.166	452.750	455.916	Flat	Concrete	6.70	Fair	Asphalt	1.00	-	-	Field	
11-12B	2	3.066	455.916	458.982	Flat	Concrete	6.70	Good	Gravel	1.50	-	-	Field	
	3	0.890	458.982	459.872	Flat	Concrete	6.70	Good	Concrete	1.00	-	-	Field	
	1	3.527	459.872	463.199	Flat	Concrete	6.70	Fair	Gravel	1.50	-	-	Field	
11-12C	2	2.446	463.199	465.645	Rolling	Concrete	6.70	Good	Gravel	1.50	-	-	Field	
	3	3.917	465.645	469.562	Flat	Concrete	6.70	Good	Gravel	1.50	-	-	Field	
	1	1.429	469.562	470.991	Flat	Gravel	6.70	Fair	Concrete	1.00	-	-	Field	
11-12D	2	0.858	470.991	471.849	Flat	Concrete	6.70	Good	Asphalt	1.00	-	-	Field	
	3	1.810	471.849	473.659	Flat	Concrete	6.70	Good	Gravel	1.00	-	-	Field	
	4	1.335	473.659	474.994	Rolling	Concrete	6.70	Good	Gravel	1.50	-	-	Field	
11-12E	5	4.668	474.994	479.662	Rolling	Concrete	6.70	Good	Gravel	2.00	-	-	Field	
	6	1.287	479.662	480.949	Flat	Concrete	6.70	Good	Gravel	2.00	-	-	Field	
	7	2.620	480.949	483.569	Flat	Concrete	6.70	Good	Concrete	1.00	-	-	Field	
11-12F	1	1.676	483.569	485.245	Flat	Concrete	6.70	Good	Concrete	1.00	-	-	Field	
	2	0.105	485.245	485.350	Flat	Asphalt	11.00	Fair	Asphalt	1.50	-	-	Field	
	1	1.100	485.350	486.450	Flat	Asphalt	12.00	Fair	Asphalt	1.50	-	-	Field	
11-12G	2	0.500	486.450	486.950	Flat	Asphalt	12.00	Good	Asphalt	1.50	-	-	Field	
	1	0.096	486.950	487.046	Flat	Concrete	6.70	Good	Concrete	2.00	-	-	Field	
	2	1.728	487.046	488.774	Flat	Concrete	6.70	Fair	Gravel	1.50	-	-	Field	
11-12H	3	1.056	488.774	489.830	Rolling	Asphalt	6.70	Bad	Gravel	1.00	-	-	Field	
	4	0.960	489.830	490.790	Rolling	Concrete	6.70	Good	Gravel	1.00	-	-	Field	
	5	0.288	490.790	491.078	Rolling	Concrete	6.70	Good	Gravel	1.00	-	-	Field	
11-12I	6	1.631	491.078	492.709	Flat	Concrete	6.70	Good	Gravel	1.50	-	-	Field	
	7	0.768	492.709	493.477	Flat	Asphalt	6.10	Fair	Gravel	1.50	-	-	Field	
	8	5.182	493.477	498.659	Flat	Concrete	6.70	Good	Gravel	1.00	-	-	Field	
11-12J	9	0.960	498.659	499.619	Flat	Concrete	6.70	U-const	Gravel	1.00	-	-	Field	
	10	0.480	499.619	500.099	Flat	Asphalt	6.10	Fair	Gravel	1.50	-	-	Field	
	11	4.990	500.099	505.089	Flat	Concrete	6.70	Good	Gravel	1.00	-	-	Field	
11-12K	12	0.672	505.089	505.761	Flat	Concrete	6.70	Good	Gravel	1.00	-	-	Field	
	13	0.384	505.761	506.145	Flat	Asphalt	6.70	Good	Gravel	1.50	-	-	Field	
	14	0.768	506.145	506.913	Flat	Concrete	6.70	Fair	Gravel	1.50	-	-	Field	
11-12L	1	1.459	506.913	508.372	Flat	Concrete	6.70	Fair	Gravel	1.50	-	-	Field	
	2	3.793	508.372	512.165	Flat	Asphalt	6.70	Good	Gravel	1.50	-	-	Field	
	3	0.389	512.165	512.554	Flat	Concrete	6.70	Good	Gravel	1.50	-	-	Field	
11-12M	4	0.681	512.554	513.235	Rolling	Asphalt	6.70	Good	Gravel	1.50	-	-	Field	
	5	0.194	513.235	513.429	Flat	Concrete	6.70	Good	Gravel	1.50	-	-	Field	
	6	1.556	513.429	514.985	Rolling	Asphalt	6.70	Good	Gravel	1.50	-	-	Field	
11-12N	7	1.167	514.985	516.152	Flat	Concrete	6.70	Good	Gravel	1.50	-	-	Field	
	8	3.209	516.152	519.361	Rolling	Concrete	6.70	Good	Gravel	1.50	-	-	Field	
	9	1.556	519.361	520.917	Flat	Concrete	6.70	Good	Gravel	1.00	-	-	Field	
10	0.584	520.917	521.501	Flat	Asphalt	6.10	Good	Gravel	1.00	-	-	Field		

Road Data (Continued)

Link section No.	Sub-section No.	Length (km)	Station		Terrain	Carriageway		Shoulder/Sidekick		Substandard		Disaster Potential		Survey Method
			From (km)	To (km)		Type	Width (m)	Type	Width (m)	Alignment Section (m)	Type (m)	Type (m)		
11-12H	11	3.696	521.501	525.197	Flat	Concrete	6.70	Gravel	1.50	-	-	-	Field	
	12	4.377	525.197	529.574	Rolling	Concrete	6.70	Gravel	1.50	-	-	-	Field	
	13	1.653	529.574	531.227	Flat	Concrete	6.70	Gravel	1.50	-	-	-	Field	
	14	2.431	531.227	533.658	Rolling	Concrete	6.70	Gravel	1.00	-	-	-	Field	
	15	2.042	533.658	535.700	Flat	Concrete	6.70	Gravel	1.00	-	-	-	Field	
	16	3.404	535.700	539.104	Flat	Concrete	6.70	Gravel	1.50	-	-	-	Field	
	17	3.404	539.104	542.508	Rolling	Concrete	6.70	Gravel	0.50	-	-	-	Field	
	18	1.751	542.508	544.259	Mount's	Concrete	6.70	Concrete	0.70	-	-	-	Field	
	19	0.341	544.259	544.600	Flat	Concrete	6.70	Gravel	1.50	-	-	-	Field	
	11-12I	1	1.697	544.600	546.297	Flat	Concrete	6.70	Concrete	1.50	-	-	-	Field
		2	2.424	546.297	548.721	Rolling	Concrete	6.70	Gravel	1.50	-	-	-	Field
		3	3.200	548.721	551.921	Flat	Concrete	6.70	Gravel	1.50	-	-	-	Field
		4	1.164	551.921	553.085	Flat	Concrete	6.70	Gravel	1.50	-	-	-	Field
		5	1.654	553.085	554.539	Rolling	Concrete	6.70	Gravel	1.50	-	-	-	Field
		6	1.552	554.539	556.091	Flat	Concrete	6.70	Gravel	1.50	-	-	-	Field
		7	0.679	556.091	556.770	Flat	Concrete	6.70	Gravel	1.00	-	-	-	Field
		8	1.842	556.770	558.612	Mount's	Concrete	6.70	Gravel	1.00	-	-	-	Field
		9	1.067	558.612	559.679	Flat	Concrete	6.70	Concrete	1.00	-	-	-	Field
		10	2.036	559.679	561.715	Flat	Concrete	6.70	Gravel	1.50	-	-	-	Field
	11	0.970	561.715	562.683	Rolling	Gravel	7.00	Fair	-	-	-	-	Field	
	12	1.358	562.683	564.043	Rolling	Gravel	7.00	Fair	-	500	CS 200	-	Field	
	13	1.939	564.043	565.982	Mount's	Gravel	6.00	Fair	-	-	CS 100	-	Field	
	14	1.067	565.982	567.049	Rolling	Gravel	6.00	Fair	-	1000	CS 500	-	Field	
	15	1.552	567.049	568.601	Rolling	Gravel	6.00	Fair	-	-	CS 300	-	Field	
	16	1.067	568.601	569.668	Mount's	Gravel	6.00	Bad	-	-	-	-	Field	
17	1.552	569.668	571.220	Rolling	Gravel	6.00	Bad	-	-	-	-	Field		
18	1.454	571.220	572.674	Mount's	Gravel	6.00	Bad	-	1000	CS 1000	-	Field		
19	0.582	572.674	573.256	Rolling	Gravel	5.00	Bad	-	300	CS 200	-	Field		
20	2.908	573.256	576.164	Rolling	Concrete	6.70	Good	Asphalt	1.00	-	-	Field		
21	1.552	576.164	577.716	Flat	Concrete	6.70	Good	Asphalt	1.00	-	-	Field		
22	1.067	577.716	578.783	Rolling	Concrete	6.70	Good	Concrete	1.50	-	-	Field		
23	1.648	578.783	580.431	Rolling	Concrete	6.70	Good	Asphalt	1.00	CS 100	-	Field		
24	3.491	580.431	583.922	Flat	Concrete	6.70	Good	Gravel	1.00	CS 500	-	Field		
25	5.140	583.922	589.062	Rolling	Concrete	6.70	Good	Asphalt	1.00	CS 1000	ES 100	Field		

Note : Disaster Type : CS=Cut Slope Damage, ES=Embankment Slope Damage, DF=Debris Flow, SR=Scour/Washout of Roadbed, FR=Flooding

Bridge Data

Link section No.	Sub-section No.	Bridge Name	Station (km)	Bridge Type	Bridge Length (m)	Span Length (m)	Carri- Side- ageway walk		Bridge Damage			Survey Method
							Width (m)	Width (m)	Slab	Superst.	Subst.	
11-12A	2	BANAS	448.920	Permanent	12.0	1x12.0	6.70	0.50	-	-	-	Field
	2	BADOC	449.769	Permanent	5.0	1x 5.0	6.70	0.50	-	-	-	Field
	2	APATOT	452.625	Permanent	24.0	2x12.0	6.70	0.50	-	-	-	Field
11-12B	3	TIPCAL	459.608	Permanent	180.0	15x12.0	6.70	0.12	-	-	-	Field
11-12C	3	TABUG	466.075	Permanent	12.0	2x 6.0	6.70	0.50	-	-	-	Field
11-12D	1	QUIAOIT	470.015	Permanent	15.2	2x 7.6	8.70	0.18	-	-	-	Field
	2	GARASGAS	471.840	Permanent	36.0	3x12.0	6.70	0.50	-	-	-	Field
	4	MAGSIBINGGAAN	474.795	Permanent	12.0	1x12.0	6.70	0.50	-	-	-	Field
11-12F	5	SAN LORENZO	479.632	Permanent	13.0	1x13.0	6.70	0.50	-	-	-	Field
11-12G	1	GILBERT	486.375	Permanent	750.0	15x50.0	14.64	0.76	-	-	-	Field
	2	TUPEK	488.300	Permanent	15.0	1x15.0	6.70	0.42	-	-	-	Field
	4	IRRIG II	490.350	Permanent	6.0	1x 6.0	6.33	0.42	-	-	-	Field
	7	TAMUCALAO I	492.830	Permanent	82.5	3x27.5	6.70	0.50	-	-	-	Field
	7	TAMUCALAO II	493.092	Permanent	30.4	1x30.4	6.70	0.50	-	-	-	Field
	7	BACCARRA	493.400	Permanent	198.0	4x49.5	6.70	0.50	-	-	-	Field
	8	BANGSIRIT	497.900	Permanent	45.0	3x15.0	6.70	0.50	-	-	-	Field
	11	CADARATAN	500.672	Permanent	12.0	1x12.0	6.70	0.50	-	-	-	Field
	13	PASUQUIN	505.900	Permanent	65.0	5x13.0	6.70	0.50	-	-	-	Field
11-12H	1	NATBA	507.315	Permanent	12.0	1x12.0	6.70	0.50	-	-	-	Field
	1	NIBET	508.100	Permanent	12.0	1x12.0	6.70	0.50	-	-	-	Field
	7	TULNAGAN	515.750	Permanent	75.0	5x15.0	6.70	0.50	-	-	-	Field
	9	DIRIQUI	520.585	Permanent	36.0	3x12.0	6.70	0.50	-	-	-	Field
	13	BURAAAN	530.940	Permanent	63.0	3x21.0	6.70	0.50	-	-	-	Field
	19	BARUGEN	544.343	Permanent	150.0	5x30.0	6.70	0.50	-	-	-	Field
	1	BANGAN	545.880	Permanent	150.0	10x15.0	6.70	0.30	-	-	-	Field
11-12I	3	BUAGAO	551.620	Permanent	42.0	3x14.0	6.70	0.50	-	-	-	Field
	6	ABANA	555.540	Permanent	12.0	1x12.0	6.70	0.50	-	-	-	Field
	6	BOLO	555.962	Permanent	24.0	2x12.0	6.70	0.50	-	-	-	Field
	10	BADUANG	561.135	Permanent	175.0	5x35.0	7.10	0.76	-	-	-	Field
	11	SULVEC	562.125	Permanent	50.0	2x25.0	7.00	0.50	-	-	-	Field
	13	AYOYO	565.120	Bailey	24.0	2x12.0	3.60	-	Medium	High	-	Field
	15	TABBUG	567.280	Bailey	12.0	1x12.0	3.60	-	Medium	-	-	Field
	16	BALAOI	569.560	Bailey	48.0	3x16.0	3.60	-	-	-	-	Field
	21	DACKEL ADANUM	577.590	Permanent	15.0	1x15.0	6.70	0.50	-	-	-	Field
	23	PANCIAN	580.370	Permanent	15.0	1x15.0	6.70	0.50	-	-	-	Field
	24	PASALENG	582.135	Permanent	73.5	3x24.5	6.70	0.40	-	-	-	Field
	24	BRIDGE	583.635	Permanent	20.0	1x20.0	6.70	0.30	-	-	-	Field

Province : Ilocos Norte Road Number : 11-21 Road Name : Ilocos Norte-Apayao Road
 Road Class : National Length : 43.142 km (From 483.785 km to 526.927 km)

Road Data

Link section No.	Sub-section No.	Length (km)	Station		Terrain	Carriageway		Shoulder/SideWalk		Substandard Alignment Section (m)	Disaster Potential Section		Survey Method	
			From (km)	To (km)		Type	Width (m)	Type	Width (m)		Type (m)	Type (m)		
11-21A	1	0.387	483.785	484.172	Flat	Concrete	6.70	Good	Concrete	1.00	-	-	Field	
	2	1.933	484.172	486.105	Flat	Concrete	6.70	Good	Gravel	2.00	-	-	Field	
	3	5.703	486.105	491.808	Flat	Concrete	6.70	Good	Gravel	1.50	-	-	Field	
	4	2.126	491.808	493.934	Rolling	Concrete	6.70	Fair	Earth	1.00	-	-	Field	
	5	3.093	493.934	497.027	Rolling	Concrete	6.70	Good	Earth	1.50	CS	100	-	Field
	6	1.256	497.027	498.283	Flat	Concrete	6.70	Good	Gravel	1.00	-	-	Field	
	7	2.901	498.283	501.184	Flat	Concrete	6.70	Good	Gravel	1.50	-	-	Field	
	8	1.160	501.184	502.344	Flat	Concrete	6.70	Good	Gravel	0.50	-	-	Field	
	9	0.483	502.344	502.827	Flat	Concrete	6.70	Good	Gravel	0.50	-	-	Field	
11-21B	1	0.900	502.827	503.727	Flat	Concrete	6.70	Good	Gravel	0.50	-	-	Field	
	2	0.400	503.727	504.127	Flat	Concrete	6.70	Good	Gravel	1.00	-	-	Field	
	3	6.900	504.127	511.027	Flat	Concrete	6.70	Good	Gravel	1.50	-	-	Field	
11-21C	1	0.200	511.027	511.227	Flat	Concrete	6.70	Good	Gravel	1.00	-	-	Field	
	2	0.900	511.227	512.127	Flat	Concrete	6.70	Good	Gravel	1.00	-	-	Field	
	3	1.200	512.127	513.327	Flat	Gravel	7.00	Fair	Gravel	1.00	-	-	Field	
	4	1.600	513.327	514.927	Flat	Gravel	7.50	Fair	Gravel	1.00	-	-	Field	
	5	0.800	514.927	515.727	Flat	Gravel	6.00	Fair	Gravel	1.00	-	-	Field	
	6	0.400	515.727	516.127	Mount's	Gravel	3.00	Bad	Gravel	1.00	-	-	Field	
	7	0.800	516.127	516.927	Mount's	Gravel	3.00	Bad	Gravel	1.00	-	-	Field	
	8	10.000	516.927	526.927	Mount's	Earth	3.00	V.Bad	Gravel	1.00	-	-	Field	

Note : Disaster Type : CS=Cut Slope Damage, ES=Embankment Slope Damage, DF=Debris Flow, SR=Scour/Washout of Roadbed, FR=Flooding

Bridge Data

Link section No.	Sub-section No.	Bridge Name	Station (km)	Bridge		Span		Carri- Side-		Bridge Damage		Approach Damage		Survey Method
				Type	Length (m)	Length (m)	Length (m)	Width (m)	Width (m)	Width (m)	Width (m)	Slab	Superst. Subst.	
11-21A	4	BALUDABID	491.985	Permanent	38.0	2x19.0	6.70	0.50	-	-	-	-	-	Field
	5	PARIIR 1	494.085	Permanent	21.0	1x21.0	7.32	0.50	-	-	-	-	-	Field
	5	PARIIR 2	495.284	Permanent	21.0	1x21.0	7.32	0.50	-	-	-	-	-	Field
11-21B	7	SUYO	498.685	Permanent	24.0	2x12.0	7.32	0.50	-	-	-	-	-	Field
	3	CAUPLASAN	504.885	Permanent	814.0	11x74.0	7.30	0.50	-	-	-	-	-	Field
	3	UBBOG	505.285	Permanent	6.0	1x 6.0	7.30	0.50	-	-	-	-	-	Field
11-21C	3	LALADA	506.135	Permanent	9.0	1x 9.0	7.30	0.50	-	-	-	-	-	Field
	3	TINA	510.885	Permanent	45.0	3x15.0	7.30	0.50	-	-	-	-	-	Field
	2	BISBISLAC	511.385	Permanent	12.0	1x12.0	7.30	0.50	-	-	-	-	-	Field

Province : Ilocos Norte Road Number : 11-22 Road Name : Darrat Jct.-Piniili-Nueva Era Road
 Road Class : National Length : 22.499 km (From 452.750 km to 475.249 km)

Road Data

Link section No.	Sub- No.	Length (km)	Station		Terrain	Carriageway		Shoulder/Side-walk		Substandard Alignment		Disaster Potential Section		Survey Method
			From (km)	To (km)		Type	Width (m)	Condition	Type	Width (m)	Type (m)	Type (m)		
11-22	1	2.664	452.750	455.414	Flat	Concrete	6.70	Good	Gravel	1.00	-	-	-	Field
	2	0.593	455.414	456.007	Flat	Concrete	6.70	Good	Earth	1.00	-	-	-	Field
	3	1.283	456.007	457.290	Rolling	Concrete	6.70	Good	Gravel	1.00	-	-	-	Field
	4	1.480	457.290	458.770	Rolling	Concrete	6.70	Good	Gravel	1.00	-	-	-	Field
	5	1.283	458.770	460.053	Flat	Concrete	6.70	Good	Gravel	1.50	-	-	-	Field
	6	3.454	460.053	463.507	Rolling	Concrete	6.70	Good	Gravel	1.00	-	-	-	Field
	7	1.480	463.507	464.987	Mount's	Concrete	6.70	Good	Earth	1.50	-	-	CS 1000	ES 100
	8	2.960	464.987	467.947	Rolling	Concrete	6.70	Good	Earth	1.50	-	-	CS 1000	ES 600
	9	4.046	467.947	471.993	Rolling	Concrete	6.70	Good	Gravel	2.00	-	-	-	Field
	10	3.256	471.993	475.249	Rolling	Concrete	6.70	Good	Gravel	2.00	-	-	-	Field

Note : Disaster Type : CS=Cut Slope Damage, ES=Embankment Slope Damage, DF=Debris Flow, SR=Scour/Washout of Roadbed, FR=Flooding

Bridge Data

Link section No.	Sub- No.	Bridge Name	Station (km)	Bridge		Span		Carri- Side- ageway walk		Bridge Damage		Approach Damage		Survey Method
				Type	Length (m)	Length (m)	Width (m)	Width (m)	Width (m)	Slab	Superst. Subst. (m)	MNI Side (m)	Opp. Side (m)	
11-22	1	CAPANDANAN 1	454.098	Permanent	12.0	1x12.0	6.70	0.50	-	-	-	-	-	Field
	2	CAPANDANAN 2	454.738	Permanent	15.0	1x15.0	6.70	0.50	-	-	-	-	-	Field
	3	BADIO	456.348	Permanent	15.0	1x15.0	6.70	0.50	-	-	-	-	-	Field
	5	VALBUENA	457.170	Permanent	14.0	1x14.0	6.70	0.50	-	-	-	-	-	Field
	8	STO. TOMAS	459.549	Permanent	14.0	1x14.0	6.70	0.50	-	-	-	-	-	Field
	9	LILIPUTEN	464.994	Permanent	18.0	3x 6.0	6.70	0.50	-	-	-	-	-	Field
	9	DEL MONTE	470.701	Permanent	24.0	3x 8.0	6.70	0.50	-	-	-	-	-	Field
	9	MAGALIS	471.978	Permanent	32.0	4x 8.0	6.70	0.50	-	-	-	-	-	Field

Province : Ilocos Norte Road Number : 11-23 Road Name : Pias-Curriniao-Paoay-Balacac-Leoag Road
 Road Class : National Length : 28.176 km (From 459.872 km to 488.048 km)

Road Data

Link section No.	Sub-section No.	Length (km)	Station		Terrain	Carriageway			Shoulder/Sidewalk			Substandard Alignment Section		Disaster Potential Section		Survey Method
			From (km)	To (km)		Type	Width (m)	Condition	Type	Width (m)	Type	Width (m)	Type	Width (m)		
11-23A	1	1.677	459.872	461.549	Flat	Concrete	6.70	Good	Gravel	1.00	-	-	-	-	-	Field
	2	1.584	461.549	463.133	Rolling	Concrete	6.70	Good	Gravel	1.50	-	-	-	-	-	Field
	3	0.187	463.133	463.320	Flat	Concrete	12.00	Good	Gravel	1.00	-	-	-	-	-	Field
	4	0.280	463.320	463.600	Flat	Concrete	15.00	Good	Concrete	1.50	-	-	-	-	-	Field
	5	2.329	463.600	465.929	Rolling	Asphalt	6.10	Fair	Gravel	1.00	-	-	-	-	-	Field
	6	2.888	465.929	468.817	Flat	Asphalt	6.10	Fair	Gravel	1.00	-	-	-	-	-	Field
	7	0.745	468.817	469.562	Flat	Concrete	6.70	Good	Gravel	1.00	-	-	-	-	-	Field
11-23B	1	0.534	469.562	470.096	Flat	Concrete	6.10	Good	Gravel	1.00	-	-	-	-	-	Field
	2	0.695	470.096	470.791	Flat	Asphalt	5.00	Bad	Gravel	1.00	-	-	-	-	-	Field
	3	6.358	470.791	477.149	Flat	Asphalt	6.70	Fair	Gravel	1.50	-	-	-	-	-	Field
	4	3.419	477.149	480.568	Rolling	Asphalt	6.70	Good	Gravel	2.00	-	-	-	-	-	Field
	5	2.137	480.568	482.705	Rolling	Asphalt	6.70	Good	Gravel	1.00	-	-	-	-	-	Field
	6	5.343	482.705	488.048	Flat	Asphalt	6.70	Good	Gravel	1.00	-	-	-	-	-	Field

Bridge Data

Link section No.	Sub-section No.	Bridge Name	Station (km)	Bridge		Span		Carri-Side		Bridge Damage		Approach Damage		Survey Method
				Type	Length (m)	Length (m)	Width (m)	Width (m)	Width (m)	Width (m)	Slab	Superst. (m)	MNL Side (m)	
11-23A 11-23B	6	CURRIMAO	466.969	Permanent	38.4	2x19.2	6.00	0.30	-	-	-	-	-	Field
	1	GALPAC	470.068	Permanent	24.0	2x12.0	6.70	0.40	-	-	-	-	-	Field
	3	SAWANG	471.068	Permanent	32.0	2x16.0	6.70	-	-	-	-	-	-	Field
	3	SAWANG BR.	471.968	Permanent	44.3	1x44.3	6.70	0.40	-	-	-	-	-	Field
	3	NAGRANGTAYAN	472.508	Permanent	15.0	1x15.0	6.70	0.50	-	-	-	-	-	Field
3	NAGPICHAAN	472.968	Permanent	6.0	1x 6.0	6.70	0.40	-	-	-	-	-	Field	

Province : Ilocos Norte Road Number : 11-24 Road Name : Batac-Espiritu Road
 Road Class : National Length : 20.562 km (From 469.562 km to 490.124 km)

Road Data

Link section No.	Sub-section No.	Length (km)	Station		Terrain	Carriageway		Shoulder/SideWalk		Substandard Alignment Section (m)	Disaster Potential Section		Survey Method
			From (km)	To (km)		Type	Width (m)	Condition	Type		Width (m)	Type (m)	
11-24	1	1.113	469.562	470.675	Flat	Concrete	6.70	Good	Gravel	1.50	-	-	Field
	2	0.477	470.675	471.152	Flat	Concrete	6.70	U-const	Gravel	1.50	-	-	Field
	3	1.802	471.152	472.954	Flat	Asphalt	6.10	Fair	Gravel	1.00	-	-	Field
	4	0.529	472.954	473.483	Flat	Concrete	6.70	Good	Earth	1.50	-	-	Field
	5	1.060	473.483	474.543	Flat	Gravel	6.70	Fair	Gravel	1.00	-	-	Field
	6	0.901	474.543	475.444	Flat	Gravel	6.70	Fair	Gravel	1.00	-	-	Field
	7	0.159	475.444	475.603	Flat	Concrete	6.70	Good	Gravel	1.50	-	-	Field
	8	1.590	475.603	477.193	Flat	Gravel	5.00	Fair	-	-	-	-	Field
	9	0.529	477.193	477.722	Mount's	Gravel	5.00	Fair	-	-	100	CS 300	Field
	10	1.484	477.722	479.206	Mount's	Gravel	6.00	Bad	-	-	80	CS 100	Field
	11	1.802	479.206	481.008	Rolling	Gravel	4.00	Bad	-	-	300	CS 300	Field
	12	0.477	481.008	481.485	Rolling	Gravel	6.00	Fair	-	-	-	ES 56	Field
	13	0.583	481.485	482.068	Flat	Asphalt	6.00	Fair	Gravel	1.00	-	-	Field
	14	3.922	482.068	485.990	Rolling	Earth	4.00	Bad	-	-	-	ES 100	Field
	15	2.703	485.990	488.693	Rolling	Gravel	4.00	Bad	-	-	2500	CS 350	Field
	16	1.431	488.693	490.124	Rolling	Concrete	6.70	Good	Gravel	1.50	-	-	Field

Note : Disaster Type : CS=Cut Slope Damage, ES=Embankment Slope Damage, DF=Debris Flow, SR=Scour/Washout of Roadbed, FR=flooding

Bridge Data

Link section No.	Sub-section No.	Bridge Name	Station (km)	Bridge		Carri- Side-		Bridge Damage		Approach Damage		Survey Method
				Type	Length (m)	Span Length (m)	Width (m)	Slab Width (m)	Superst. (m)	Subst. (m)	MNL Side (m)	
11-24	1	QUIAOIT	470.444	Permanent	15.0	1x15.0	6.70	0.50	-	-	-	Field
	3	DIAPPA	471.494	Permanent	15.0	1x15.0	6.70	0.50	-	-	-	Field
	3	EUGENIA	471.694	Permanent	12.0	1x12.0	6.70	0.50	-	-	-	Field
	5	NATAYAG	473.744	Permanent	9.0	1x 9.0	6.70	0.50	-	-	-	Field
	5	IRAS	474.394	Permanent	8.0	1x 8.0	6.70	0.50	-	-	-	Field
	6	SUNGAR	474.644	Permanent	12.0	1x12.0	6.70	0.50	-	-	-	Field
	13	BININGAN	481.744	Permanent	6.0	1x 6.0	6.70	0.50	-	-	-	Field
	13	TUMEDTEDTED	481.944	Permanent	21.0	1x21.0	6.70	0.50	-	-	-	Field

Province : Ilocos Norte
 Road Class : National

Road Number : 11-25
 Road Name : Batac-Paoy Road
 Length : 4.200 km (From 469.562 km to 473.762 km)

Road Data

Link section No.	Sub- No.	Length (km)	Station		Terrain	Carriageway		Shoulder/sidewk		Substandard Alignment section (m)	Disaster Potential Section		Survey Method
			From (km)	To (km)		Type	Width (m)	Type	Width (m)		Type (m)	Type (m)	
11-25	1	1.700	469.562	471.262	Flat	Concrete	6.70	Good	Gravel	1.00	-	-	Field
	2	1.300	471.262	472.562	Flat	Concrete	6.70	Fair	Gravel	2.00	-	-	Field
	3	1.200	472.562	473.762	Flat	Concrete	6.70	Good	Gravel	1.50	-	-	Field

Province : Ilocos Norte
Road Class : National

Road Number : 11-26
Road Name : Ilocos Norte-Abra Road
Length : 52.401 km (From 502.827 km to 555.228 km)

Road Data

Link section No.	Sub-section No.	Length (km)	Station (km)		Terrain	Carriageway		Shoulder/Side-walk		Substandard Alignment		Disaster Section	Potential	Survey Method
			From	To		Type	Width (m)	Condition	Type	Width (m)	Type (m)			
11-26A 11-26B	1	15.173	502.827	518.000	Rolling	Concrete	6.70	Good	Gravel	2.00	-	-	-	Field
	1	0.644	518.000	518.644	Rolling	Concrete	6.70	Fair	Gravel	1.00	-	-	-	Field
	2	0.359	518.644	519.003	Flat	Concrete	6.70	Good	Gravel	1.50	-	-	-	Field
11-26C	3	4.681	519.003	523.684	Rolling	Concrete	6.70	Good	Earth	1.50	-	-	-	Field
	4	2.252	523.684	525.936	Flat	Concrete	6.70	Good	Gravel	1.00	-	-	-	Field
	1	0.300	525.936	526.236	Rolling	Concrete	6.70	Good	Gravel	1.50	-	-	-	Field
	2	0.600	526.236	526.836	Flat	Concrete	6.70	Good	Earth	1.00	-	-	-	Field
	3	0.700	526.836	527.536	Rolling	Concrete	6.70	Good	Gravel	1.00	-	-	-	Field
11-26B 11-26C	4	2.000	527.536	529.536	Rolling	Gravel	6.50	Fair	-	-	-	-	-	Hearing
	5	25.692	529.536	555.228	Mount's	Earth	1.00	Impass.	-	-	-	-	-	Hearing

Bridge Data

Link section No.	Sub-section No.	Bridge Name	Station (km)	Bridge		Span		Carri- Side- age-way walk		Bridge Damage		Approach Damage		Survey Method
				Type	Length (m)	Length (m)	Width (m)	Width (m)	Slab	Superst. Subst.	MNL Side (m)	Opp. Side (m)		
11-26A	1	BALDIAS	503.245	Permanent	6.0	1x	6.0	6.70	0.40	-	-	-	-	Hearing
	1	IRRIG. I	506.045	Permanent	6.0	1x	6.0	6.70	0.40	-	-	-	-	Hearing
	1	DAQUOAG	511.335	Permanent	6.0	1x	6.0	6.70	0.40	-	-	-	-	Hearing
	1	IRRIG. II	511.415	Permanent	6.0	1x	6.0	6.70	0.40	-	-	-	-	Hearing
	1	IRRIG. III	512.315	Permanent	6.0	1x	6.0	6.70	0.40	-	-	-	-	Hearing
11-26B	1	CABARITAN	513.185	Permanent	15.0	1x15.0	6.70	6.70	0.40	-	-	-	-	Hearing
	1	CARIBOUIB	514.345	Permanent	34.8	3x11.6	6.70	6.70	0.40	-	-	-	-	Hearing
	1	CABALINGASAN	516.185	Permanent	13.0	1x13.0	6.70	6.70	0.50	-	-	-	-	Field
11-26B 11-26C	3	MALAMIN	520.025	Permanent	34.0	1x34.0	6.70	6.70	0.50	-	-	-	-	Field
	4	BONGO	525.185	Permanent	240.0	10x24.0	6.70	6.70	0.50	-	-	-	-	Field
11-26C	5	NABASA	536.815	Permanent	24.0	1x24.0	6.70	6.70	0.50	-	-	-	-	Field

Province : Ilocos Norte
 Road Class : National
 Road Number : 11-27
 Road Name : Laoag Airport Road
 Length : 6.856 km (From 485.350 km to 492.206 km)

Road Data

Link section No.	Sub-section No.	Length (km)	Station		Terrain	Carriageway			Shoulder/Side-walk		Substandard Alignment Section		Disaster Potential Section		Survey Method
			From (km)	To (km)		Type	Width (m)	Condition	Type	Width (m)	Type	Width (m)	Type	Width (m)	
11-27A	1	1.500	485.350	486.850	Flat	Concrete	6.70	Good	Gravel	1.50	-	-	-	-	Field
	2	1.178	486.850	488.028	Flat	Concrete	6.70	Good	Gravel	2.00	-	-	-	-	Field
11-27B	1	3.964	488.028	491.992	Flat	Concrete	6.70	Good	Gravel	1.50	-	-	-	-	Field
	2	0.214	491.992	492.206	Flat	Concrete	6.70	Good	Earth	1.50	-	-	-	-	Field

Bridge Data

Link section No.	Sub-section No.	Bridge Name	Station (km)	Bridge Type	Bridge Length (m)	Span Length (m)	Carri- Side- ageway walk Width (m)	Bridge Width (m)	Bridge Damage	Approach Damage	Survey Method
11-27B	1	ARANIV	490.100	Permanent	45.0	3x15.0	7.33	0.42	-	-	Field

Province : Ilocos Norte Road Number : 11-28 Road Name : Laoag-Sarrat-Piddig Solsona Bdry. Road
 Road Class : National Length : 29.333 km (From 486.950 km to 516.283 km)

Road Data

Link section No.	Sub- No.	Length (km)	Station		Terrain	Carriageway		Shoulder/Sidewalk		Substandard		Disaster Potential		Survey Method
			From (km)	To (km)		Type	Width (m)	Condition	Type	Width (m)	Alignment Section (m)	Type (m)	Type (m)	
11-28	1	0.497	486.950	487.447	Flat	Concrete	6.70	Good	Asphalt	3.00	-	-	-	Field
	2	0.398	487.447	487.845	Flat	Concrete	6.70	Good	Concrete	1.00	-	-	-	Field
	3	0.597	487.845	488.442	Flat	Asphalt	6.70	Good	Asphalt	1.00	-	-	-	Field
	4	3.977	488.442	492.419	Flat	Asphalt	6.70	Good	Gravel	1.50	-	-	-	Field
	5	0.696	492.419	493.115	Flat	Concrete	6.70	Good	Gravel	1.50	-	-	-	Field
	6	1.093	493.115	494.208	Flat	Concrete	6.70	Good	Gravel	1.00	-	-	-	Field
	7	0.895	494.208	495.103	Flat	Concrete	6.70	Good	Gravel	0.50	-	-	-	Field
	8	0.298	495.103	495.401	Flat	Concrete	6.70	Good	Gravel	0.50	-	-	-	Field
	9	0.398	495.401	495.799	Rolling	Asphalt	6.10	Fair	Gravel	1.00	-	-	-	Field
	10	0.895	495.799	496.694	Rolling	Concrete	6.70	Good	Gravel	1.00	-	-	-	Field
	11	1.392	496.694	498.086	Rolling	Asphalt	6.10	Fair	Gravel	1.50	-	-	-	Field
	12	1.193	498.086	499.279	Flat	Concrete	6.70	Fair	Gravel	1.50	-	-	-	Field
	13	0.696	499.279	499.975	Flat	Asphalt	6.10	Fair	Gravel	1.00	-	-	-	Field
	14	1.989	499.975	501.964	Rolling	Asphalt	6.10	Fair	Gravel	1.00	-	-	-	Field
	15	1.392	501.964	503.356	Flat	Asphalt	6.10	Good	Gravel	1.50	-	-	-	Field
	16	0.497	503.356	503.853	Flat	Concrete	6.70	Good	Gravel	1.50	-	-	-	Field
	17	0.895	503.853	504.748	Flat	Asphalt	6.10	Good	Gravel	1.50	-	-	-	Field
	18	0.795	504.748	505.543	Rolling	Concrete	6.70	Good	Gravel	1.50	-	-	-	Field
	19	0.199	505.543	505.742	Flat	Concrete	6.70	Good	Gravel	1.50	-	-	-	Field
	20	1.591	505.742	507.333	Flat	Concrete	6.70	Good	Gravel	1.50	-	-	-	Field
	21	2.884	507.333	510.217	Rolling	Concrete	6.70	Good	Gravel	1.50	-	-	-	Field
	22	4.077	510.217	514.294	Flat	Concrete	6.70	Good	Gravel	1.00	-	-	-	Field
	23	1.989	514.294	516.283	Flat	Concrete	6.70	Good	Gravel	1.50	-	-	-	Field

Bridge Data

Link section No.	Sub- No.	Bridge Name	Station (km)	Bridge		Carri- Side- ageway walk		Bridge Damage		Approach Damage		Survey Method
				Type	Length (m)	Span Length (m)	Width (m)	Width (m)	Slab	Superst. Subst.	MNL Side	
11-28	5	SAN MATEO	492.705	Permanent	30.5	1x30.5	7.30	0.02	-	-	-	Field
	15	BOQUIATA	502.911	Permanent	15.0	1x15.0	7.30	0.50	-	-	-	Field
	16	LANA	503.611	Permanent	10.0	1x10.0	6.70	0.50	-	-	-	Field
	17	DE BATAAC	504.291	Permanent	84.0	6x14.0	7.30	0.50	-	-	-	Field
	19	CALLUSA	505.611	Permanent	92.0	4x23.0	7.30	0.50	-	-	-	Field
	21	BUL-OG	508.031	Permanent	25.0	1x25.0	7.30	0.50	-	-	-	Field
	21	BUIDIGUID	509.611	Permanent	12.0	1x12.0	7.30	0.50	-	-	-	Field
	22	CAPURICTAN	510.651	Permanent	25.0	1x25.0	6.70	0.40	-	-	-	Field
	22	BAGBAG 1	511.711	Permanent	30.0	2x15.0	7.30	0.50	-	-	-	Field

Bridge Data (Continued)

Link section No.	Sub-section No.	Bridge Name	Station (km)	Bridge Type	Bridge Length (m)	Span Length (m)	Carri- Side- age way walk		Bridge Damage		Approach Damage		Survey Method
							Width (m)	Width (m)	Slab	Superst.	Subst.	MNL Side (m)	
11-28	22	BAGBAG 2	511.961	Permanent	315.0	21x15.0	7.30	0.50	-	-	-	-	Field
	22	BAGBAG 3	512.451	Permanent	210.0	14x15.0	7.30	0.50	-	-	-	-	Field
	22	BAGBAG 4	512.671	Permanent	30.0	2x15.0	7.30	0.50	-	-	-	-	Field
	22	BAGBAG 5	513.011	Permanent	45.0	3x15.0	7.30	0.50	-	-	-	-	Field
	23	TINA	515.511	Permanent	15.0	1x15.0	7.30	0.50	-	-	-	-	Field

Province : Ilocos Norte
 Road Class : National
 Road Number : 11-29
 Road Name : Pasuquin-Radar-Santa Road
 Length : 15.320 km (From 506.913 km to 522.233 km)

Road Data

Link section No.	Sub-section Length (km)	Station		Terrain	Carriageway		Shoulder/Sidewalk		Alignment		Disaster Potential		Survey Method
		From (km)	To (km)		Type	Width (m)	Condition	Type	Width (m)	Section (m)	Type (m)	Type (m)	
11-29	1	506.913	512.000	Flat	Gravel	7.00	Fair						Field
	2	512.000	513.500	Flat	Concrete	6.70	Good	Gravel	2.20				Field
	3	513.500	517.000	Rolling	Gravel	7.00	Fair						Field
	4	517.000	522.233	Rolling	Gravel	6.00	Fair						Field

Province : Ilocos Norte
 Road Class : Provincial

Road Number : 11-51
 Road Name : Sapat-Umras-Baruyan Road
 Length : 26.000 km (From 544.600 km to 570.600 km)

Road Data

Link section No.	Sub-section No.	Length (km)	Station		Terrain	Carriageway		Shoulder/Sideek		Substandard		Alignment		Disaster		Potential Section	Survey Method
			From (km)	To (km)		Type	Width (m)	Condition	Type	Width (m)	Type (m)	Type (m)	Type (m)	Type (m)	Type (m)		
11-51	1	1.000	544.600	545.600	Flat	Earth	4.00	Bad	-	-	-	-	-	-	-	-	Hearing
	2	25.000	545.600	570.600	Mount's												