社会開発協力部報告書

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REPUBLIC OF THE PHILIPPINES DEPARTMENT OF PUBLIC WORKS & HIGHWAYS

## Pilot Study for the Rural Road Network Development Project

FINAL REPORT

DRAWINGS 4

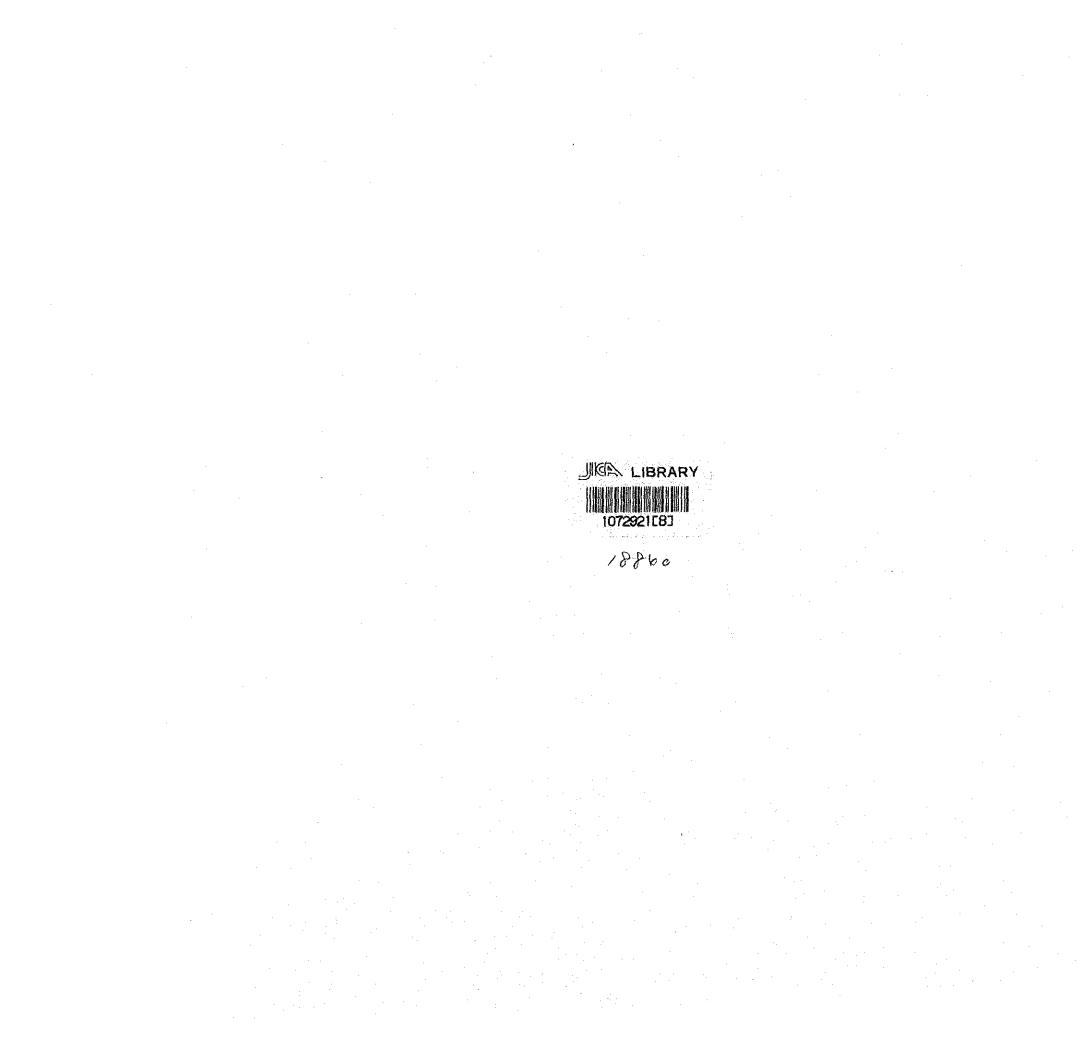
(VOLUME VII)

PROVINCE OF AGUSAN DEL NORTE

FEBRUARY, 1989

JAPAN INTERNATIONAL COOPERATION AGENCY

No. 2 SDF 89-006(7/8)





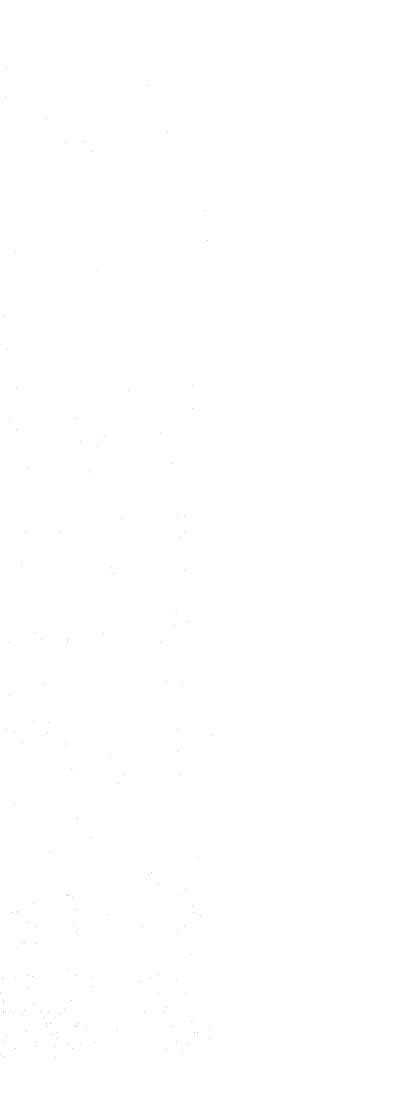
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Pilot Study for the Rural Road Network Development Project

> FINAL REPORT DRAWINGS 4 (VOLUME VII) PROVINCE OF AGUSAN DEL NORTE

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国際協力事業団 18840



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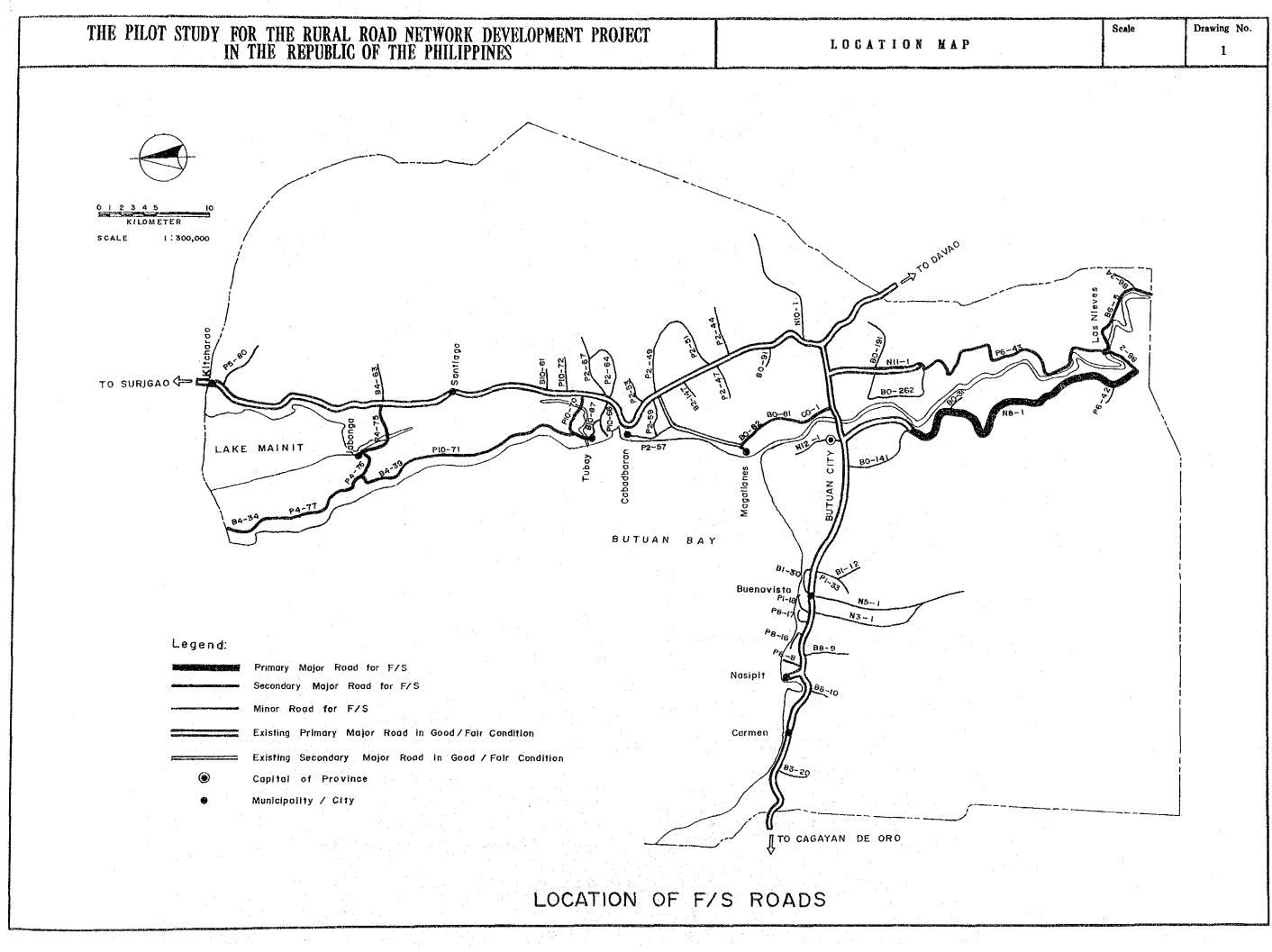
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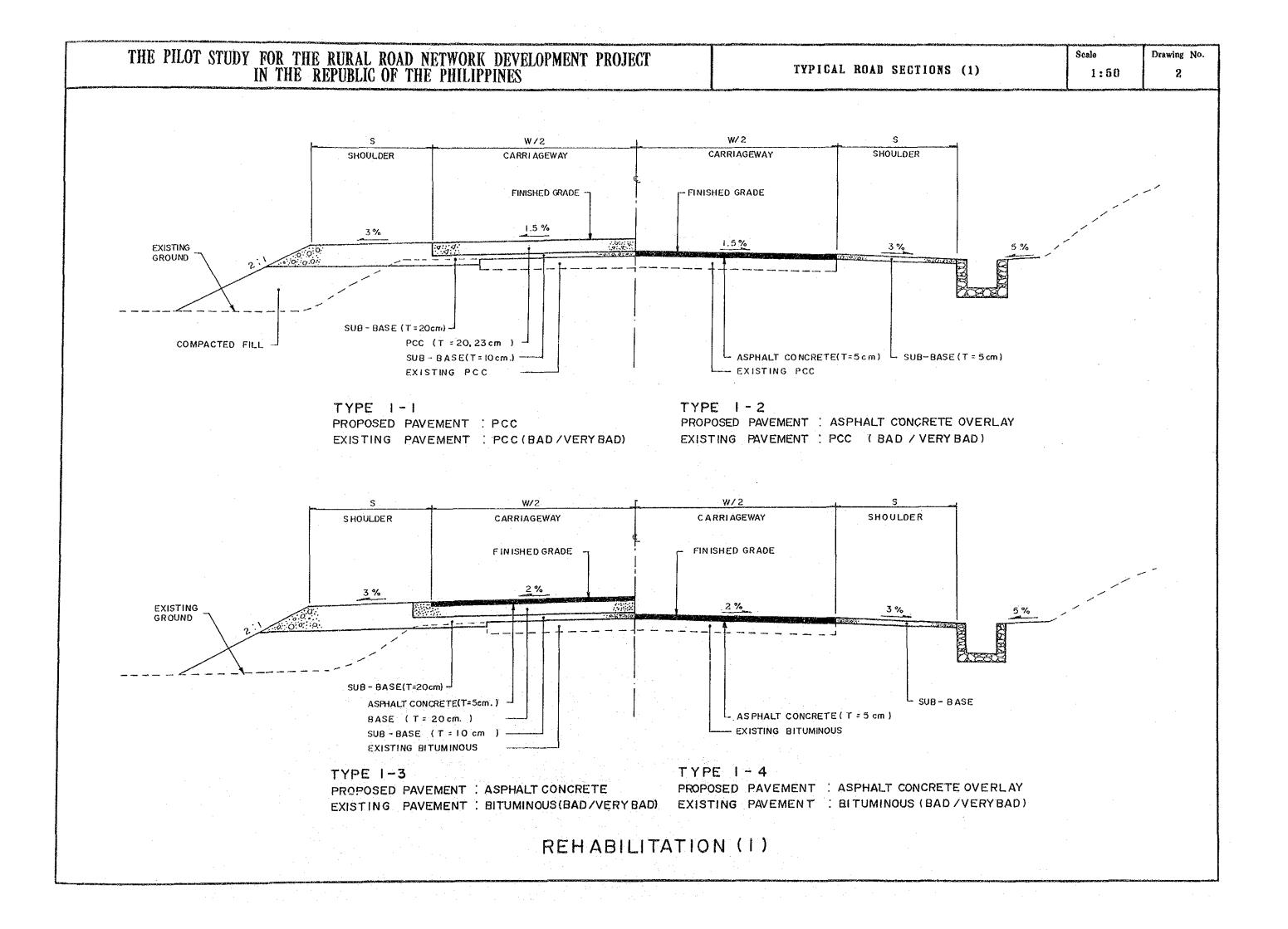
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1	LOCATION MAP
2 to 9	TYPICAL ROAD SECTIONS
10 to 45	PRESENT CONDITION AND PROPOSED IMPROVEMENT

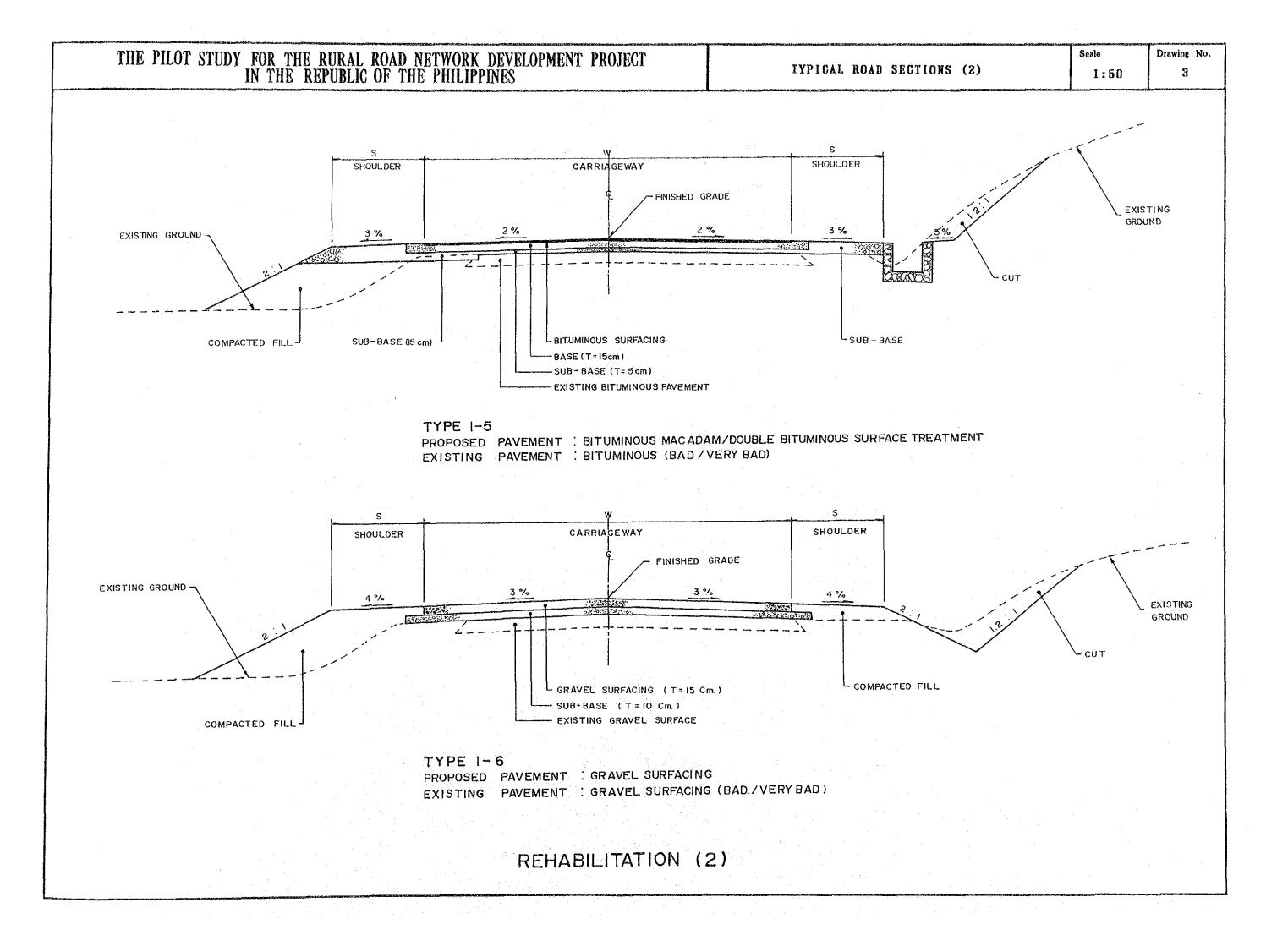
LIST OF ROADS

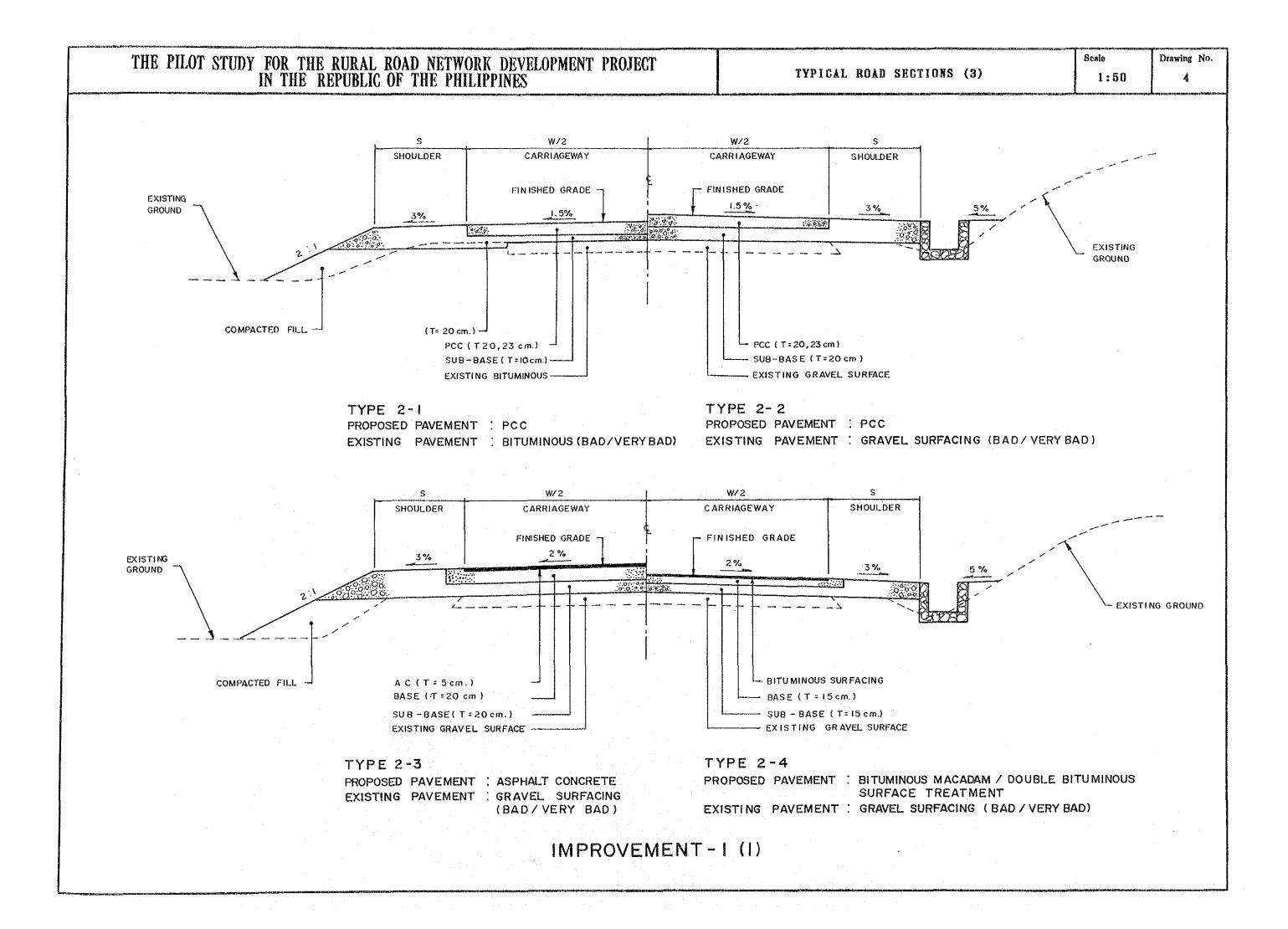
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B 0 - 82	18		P 2 - 64	31		B 4 - 63
B6-5	18		P 2 - 67	3 2		B 6 - 24
B 4 - 34	19		P 5 - 80	32		B 8 - 9
B 4 - 39	20		P 6 - 42	33		B 8 - 10
B 6 - 2	20		P 8 - 8	3 3		B 10 - 61
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N 5 - 1	2 2		P 8 - 17	34		
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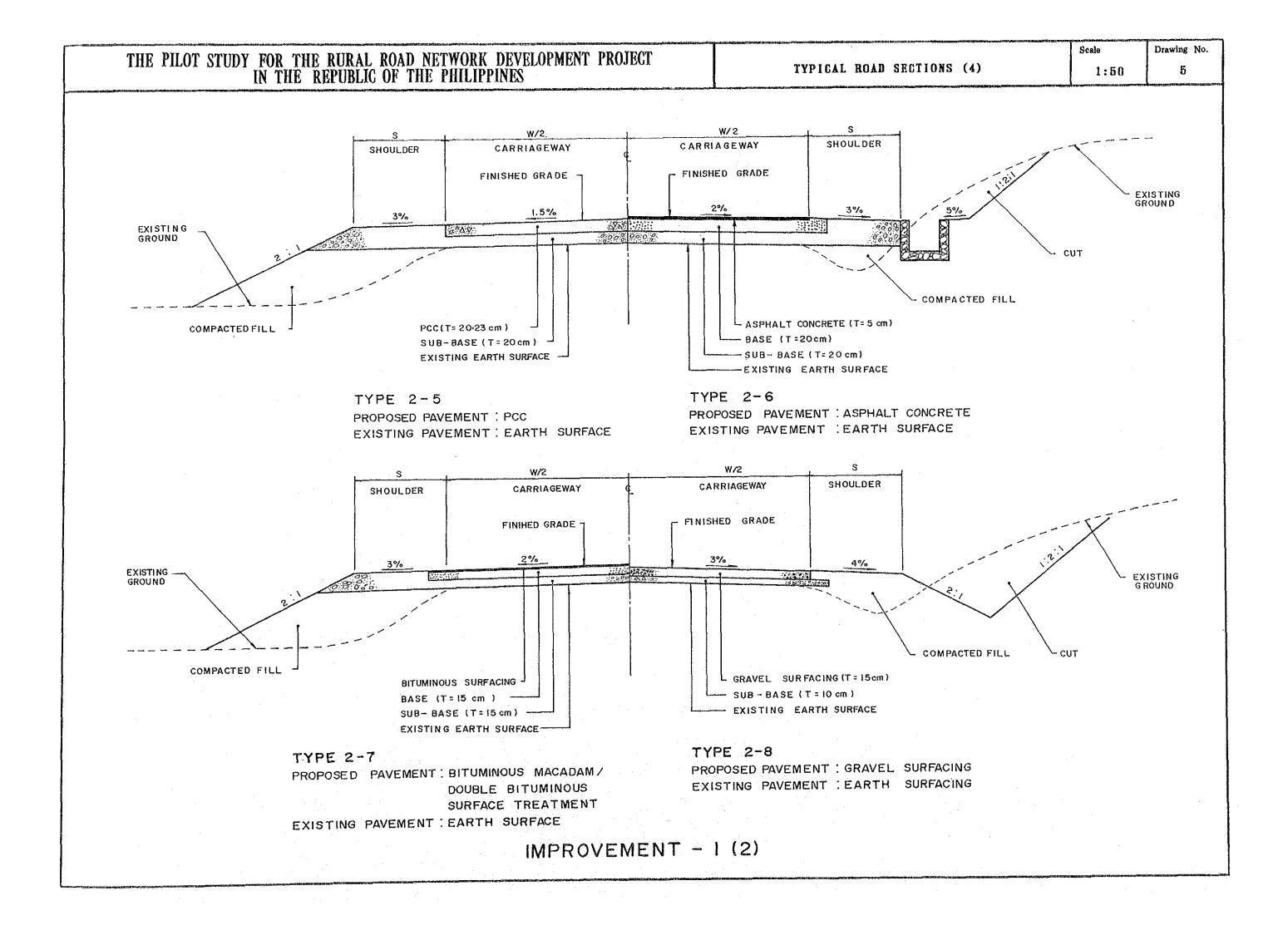
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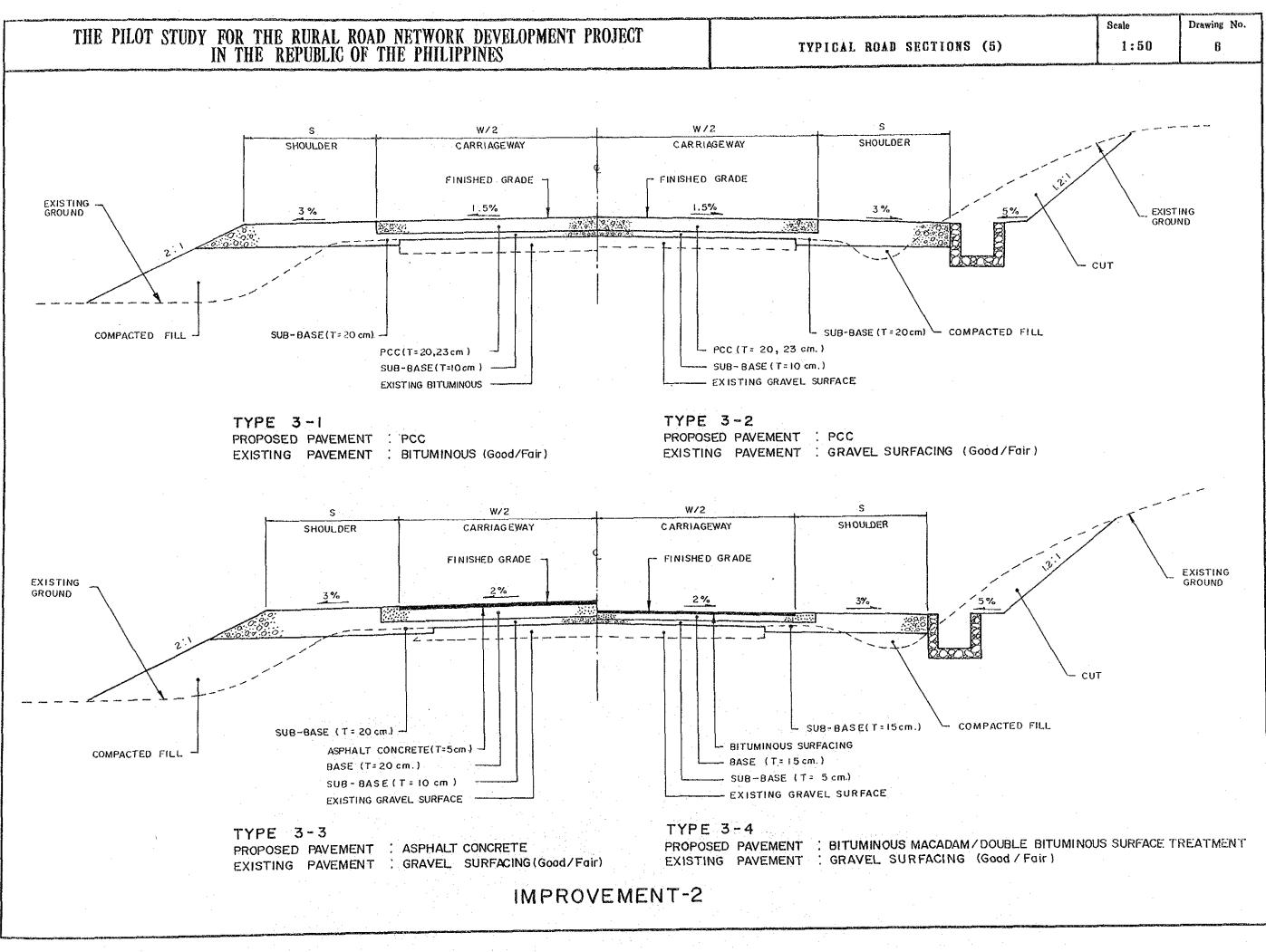


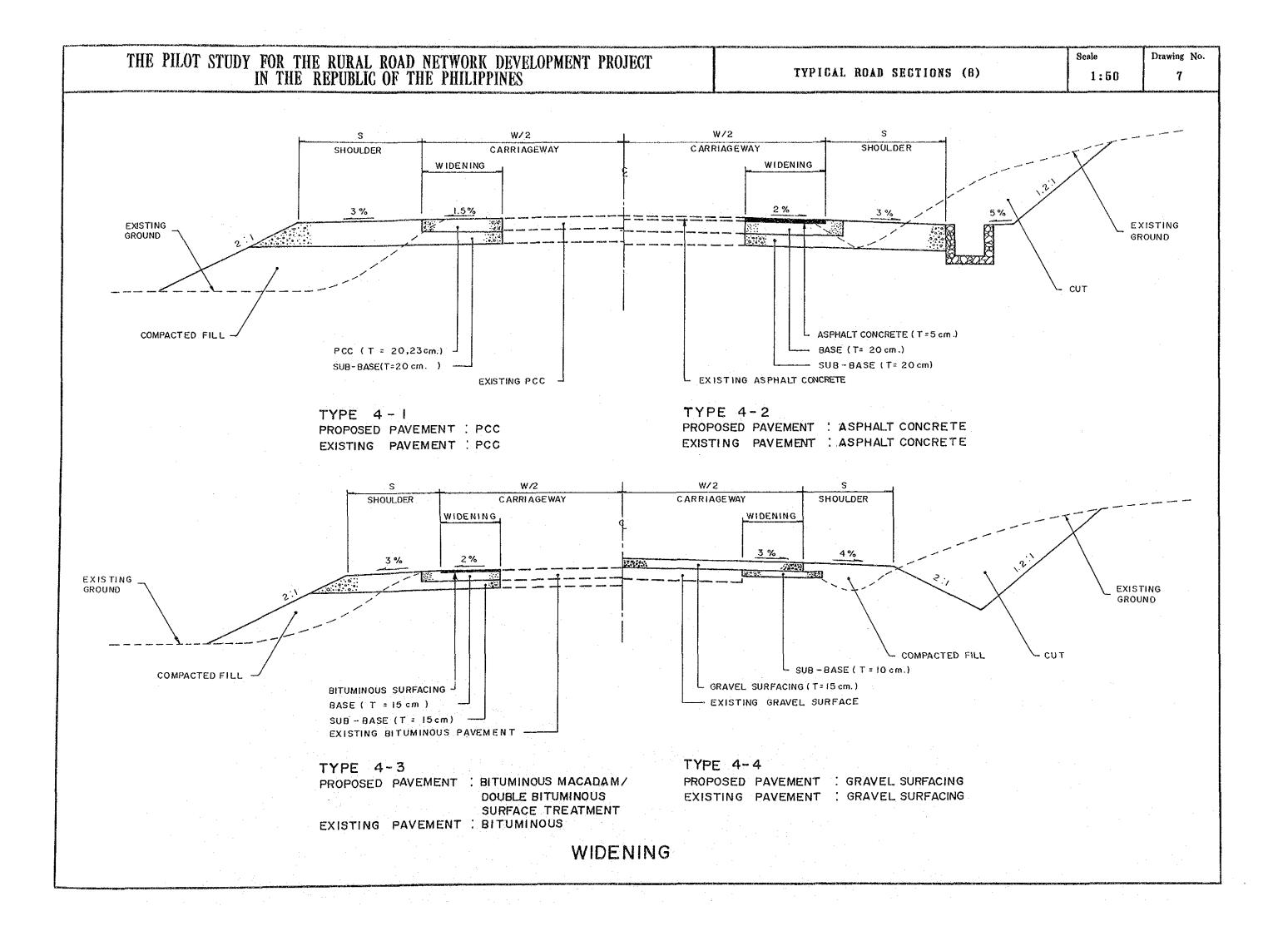


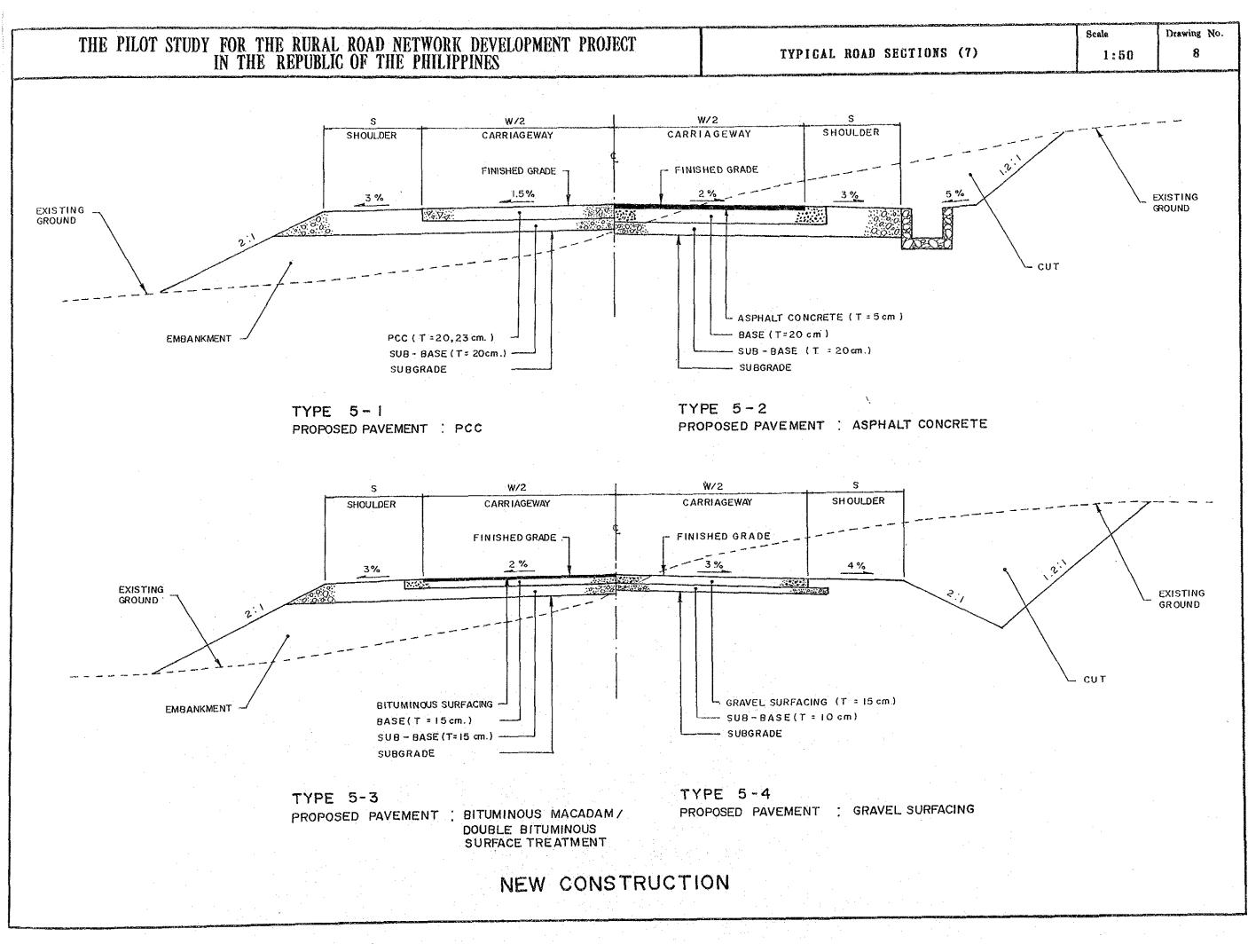


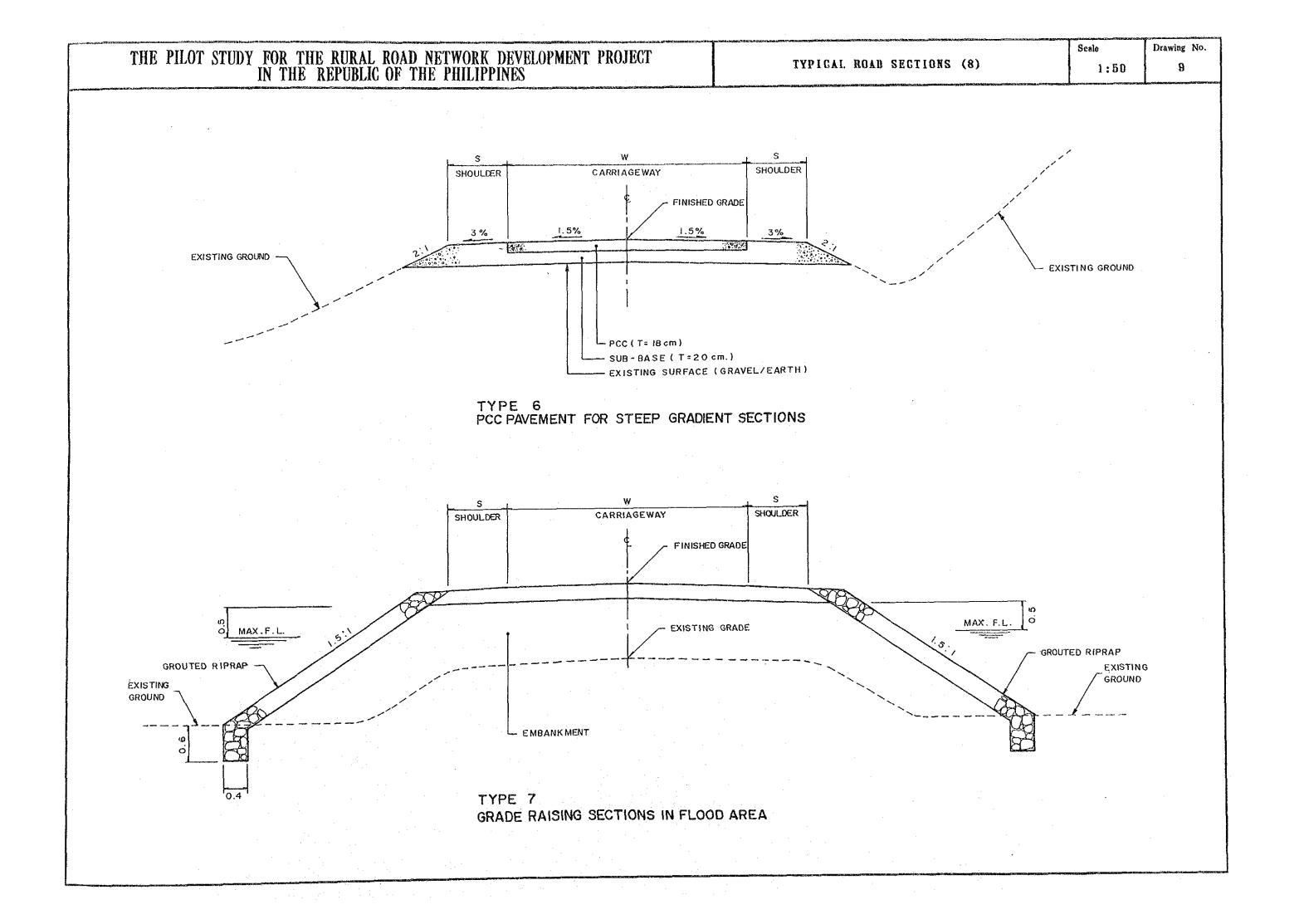


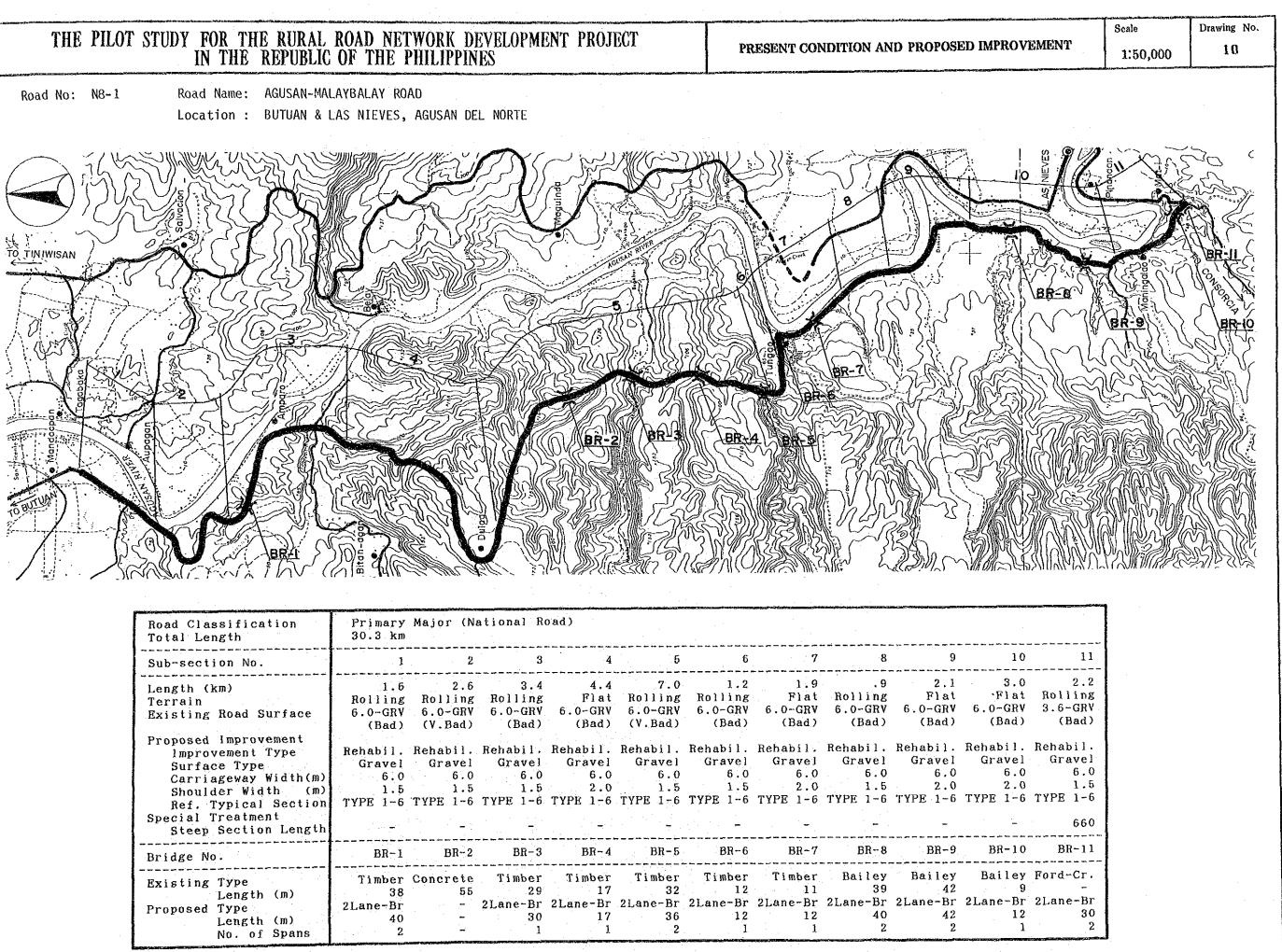




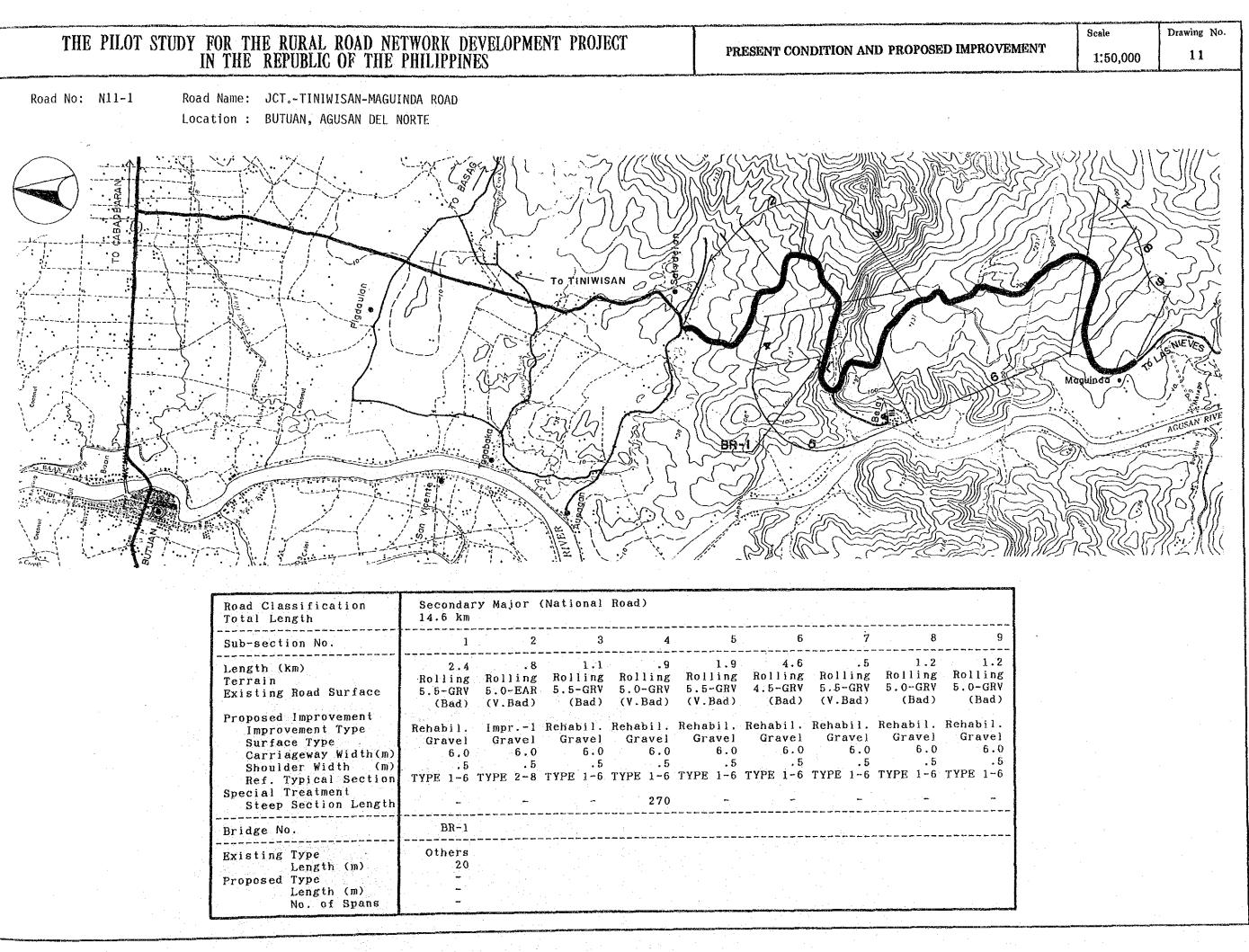




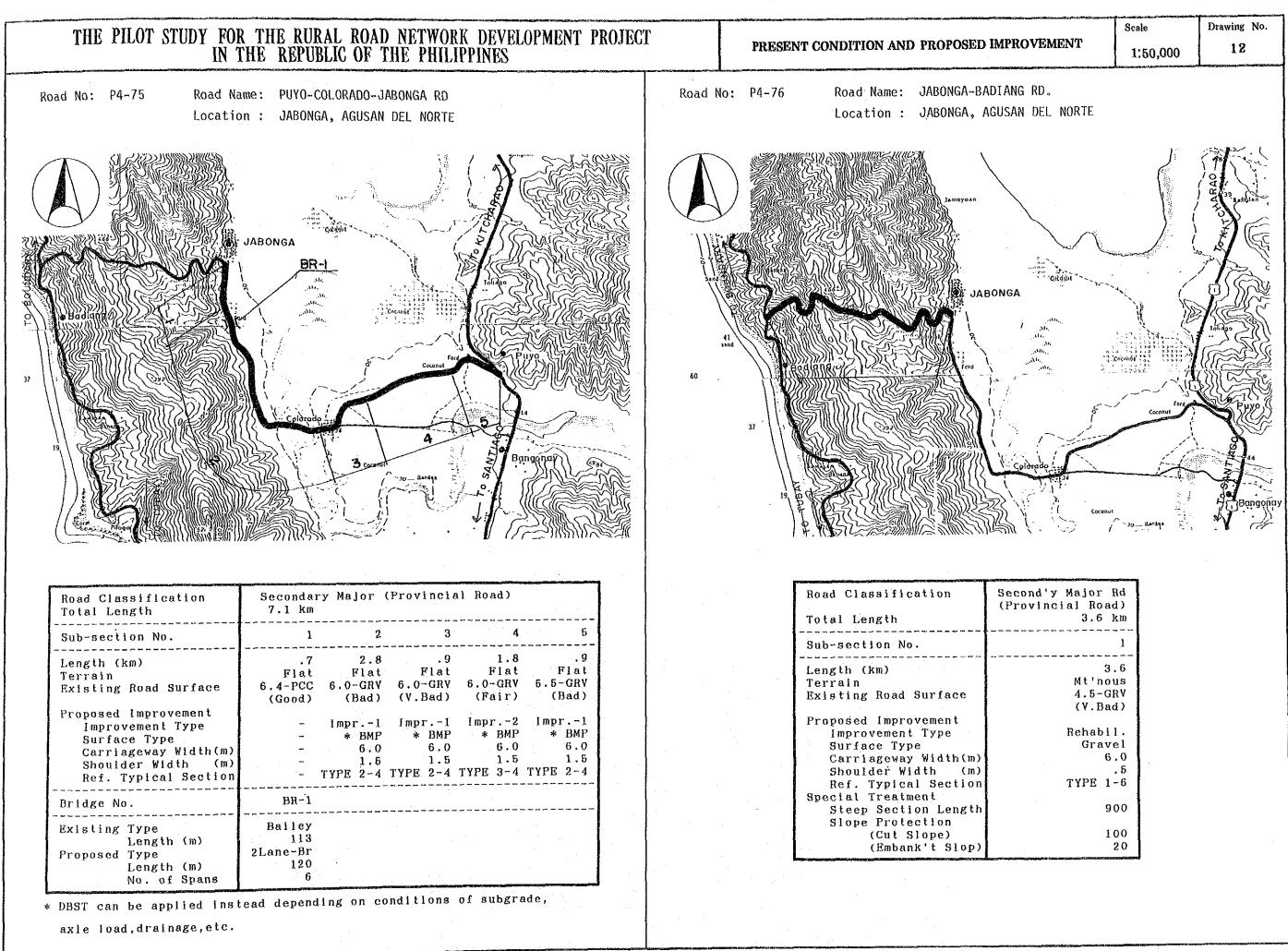




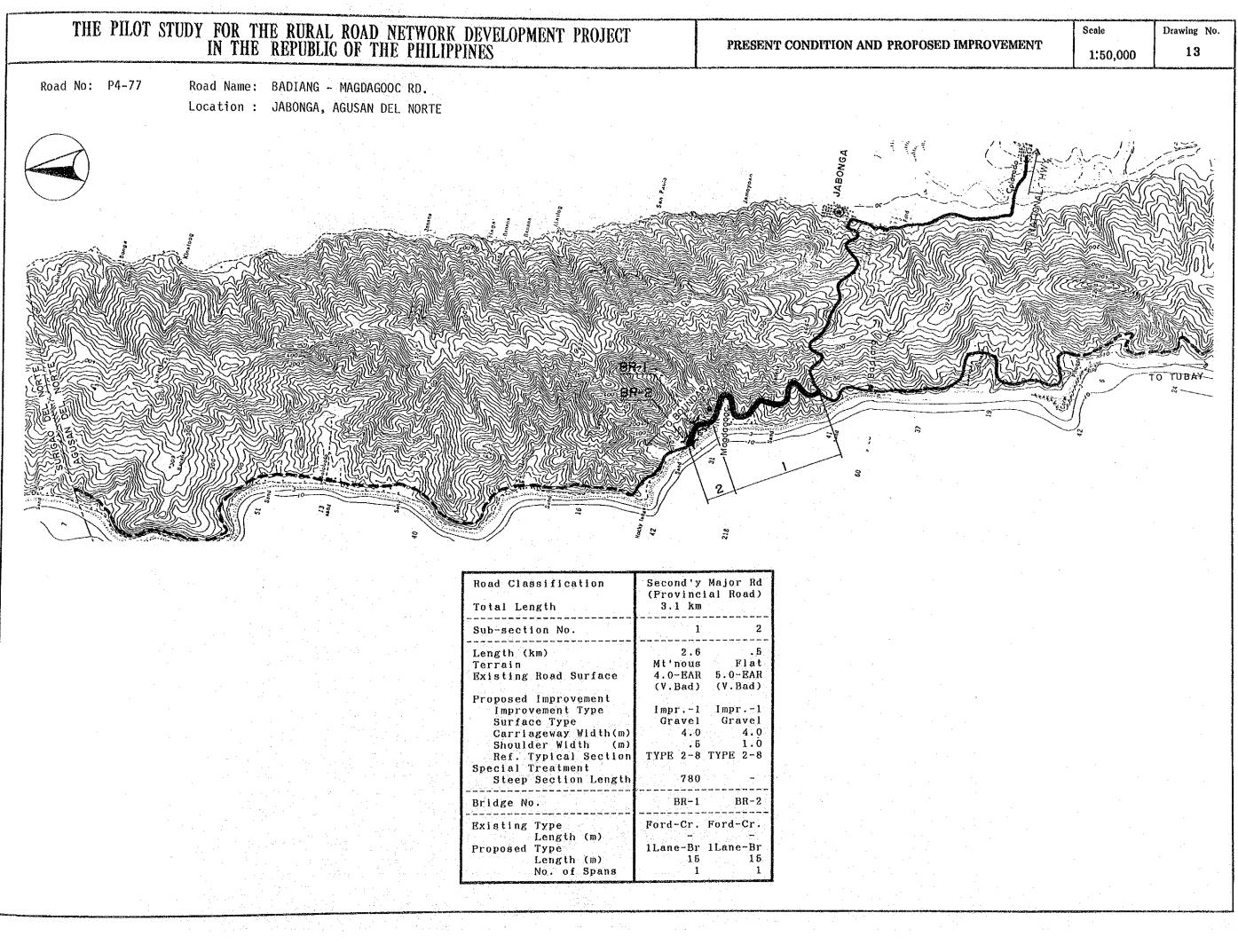
Road Classification Total Length	Primary 30.3 km	Major (N	ational R	oad)						
Sub-section No.	1	. 2	3	4	5	6	7	8	9	10
Length (km) Terrain Existing Road Surface	1.6 Rolling 6.0-GRV (Bad)	Rolling 6.0-GRV	Rolling 6.0-GRV	6.0-GRV	Rolling 6.0-GRV	Rolling 6.0-GRV	Flat 6.0-GRV	Rolling 6.0-GRV	Flat 6.0-GRV	3.0 'Flat 6.0-GRV (Bad)
Proposed Improvement Improvement Type Surface Type Carriageway Width(m) Shoulder Width (m) Ref. Typical Section Special Treatment	Gravel 6.0 1.5 TYPE 1-6	Gravel 6.0	Gravel 6.0 1.5	Gravel 6.0 2.0	Gravel 6.0 1.5	Gravel 6.0 1.5	Gravel 6.0 2.0	Gravel 6.0 1.5	6.0	Gravel 6.0 2.0
Steep Section Length Bridge No.	BR-1	BR-2	BR-3	BR-4	BR-5	BR-6	BR-7	BR-8	BR-9	BR-10
Existing Type Length (m) Proposed Type Length (m) No. of Spans	Timber 38 2Lane-Br 40 2	Concrete 55 -	29	17	32	12 2Lane-Br	11 2Lane-Br	39	2Lane-Br	9

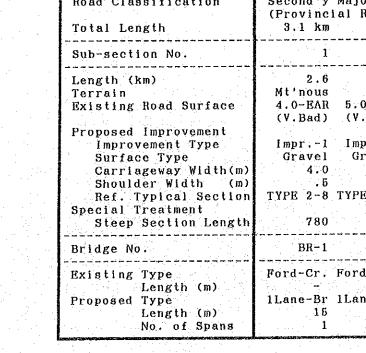


Road Classification Total Length	Secondar 14.6 km		(National	Road)					
Sub-section No.	1	2	3	4	5	6	7	8	9
Surface Type	Rolling 5.5-GRV (Bad) Rehabil. Gravel	Rolling 5.0-EAR (V.Bad) Impr1 Gravel	(Bad) Rehabil. Gravel	Rolling 5.0-GRV (V.Bad) Rehabil. Gravel	Rolling 5.5-GRV (V.Bad) Rehabil, Gravel	Rolling 4.5-GRV (Bad) Rehabil. Gravel	Rolling 5.5-GRV (V.Bad) Rehabil. Gravel	Rolling 5.0-GRV (Bad) Rehabil.	Rolling 5.0-GRV (Bad) Rehabil. Gravel
Carriageway Width(m) Shoulder Width (m) Ref. Typical Section Special Treatment Steep Section Length	5		6.0 .5 TYPE 1-6	.5	.5 TYPE 1-6	, 5	.5	.5	. 5
Bridge No.	BR-1								
Existing Type Length (m) Proposed Type Length (m) No. of Spans	Others 20 - -								an a second pope well and



Road Classification Total Length	Seconda 7.1 km	ry Major	(Provinci	al Road)	 
Sub-section No.	1	2	3	4	5
Length (km) Terrain Existing Road Surface Proposed Improvement Improvement Type Surface Type Carriageway Width(m) Shoulder Width (m) Ref. Typical Section	Flat 6.4-PCC (Good) - - - -	Flat 6.0-GRV (Bad) Impr1 * BMP 6.0 1.5	.9 Flat 6.0-GRV (V.Bad) Impr1 * BMP 6.0 1.5 TYPE 2-4	Flat 6.0-GRV (Fair) Impr2 * BMP 6.0 1.5	Flat 5.5-GRV (Bad) Impr1 * BMP 6.0 1.5
Bridge No.	BR-1				
Existing Type Length (m) Proposed Type Length (m) No. of Spans	Bailey 113 2Lane-Br 120 6	an an fead an			

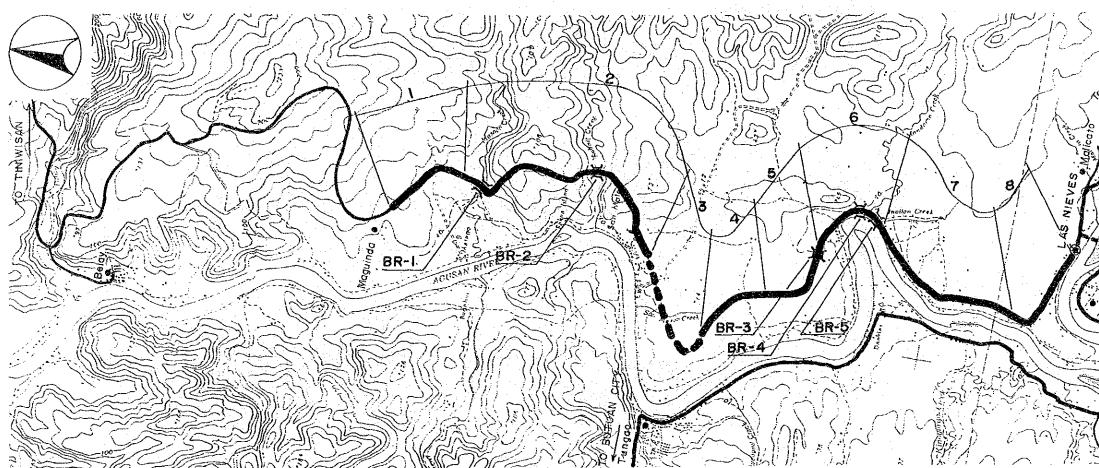




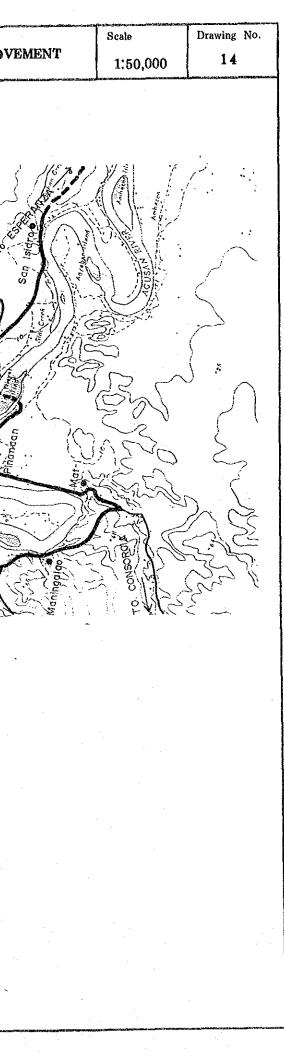
PRESENT CONDITION AND PROPOSED IMPROVEMENT

Road No: P6-43 Road Name: JCT.-T-MAGUINDA-LAS NIEVES

Location : BUTUAN & LAS NIEVES, AGUSAN DEL NORTE

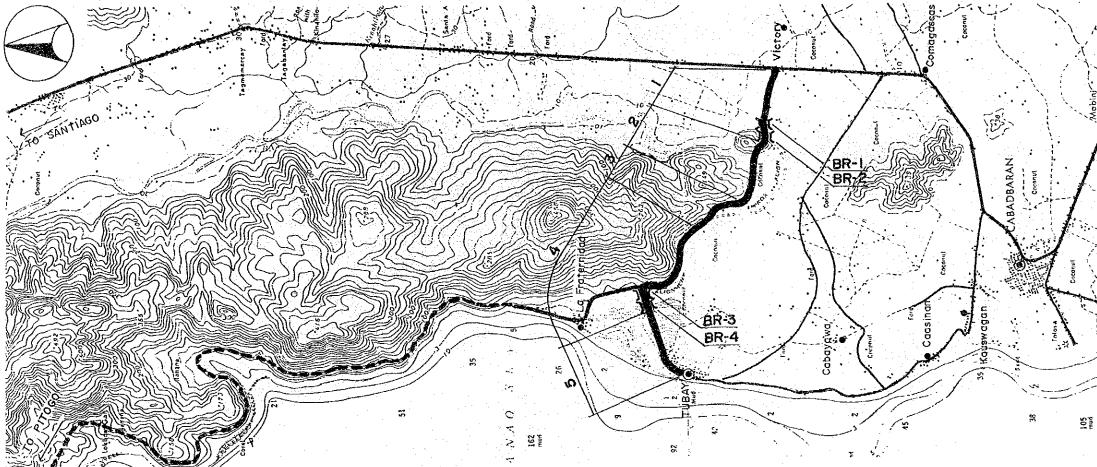


Road Classification Total Length	Secondar 16.0 km	y Major	(Provinci	al Road)				
Sub-section No.	1	2	3	4	5	6	7	8
Length (km) Terrain Existing Road Surface Proposed Improvement Improvement Type Surface Type Carriageway Width(m) Shoulder Width (m) Ref. Typical Section	4.0-EAR (Y.Bad) Impr1 Gravel 6.0 5	Flat 4.0-EAR (Bad) Impr1 Gravel 6.0	Rolling Impass./ Non-ex. New Con. Gravel 6.0	Flat 4.5-GRV (Fair) Widening Gravel 6.0 1.0	(V.Bad) Rehabil. Gravel	Flat 4.0-GRV (V.Bad) Rehabil. Gravel 6.0 1.0	Flat 4.5~GRV (V.Bad) Rehabtl. Gravel 6.0 1.0	Flat 4.0-GRV (Bad) Rehabil: Gravel 6.0 1.0
Bridge No.	,,,	BR-2	BR-3	BR-4	BR-5			
Existing Type Length (m) Proposed Type Length (m) No. of Spans	18	18	14 2Lane-Br	22 2Lane-Br	Timber 14 2Lane-Br 16 1	and the state of the state		



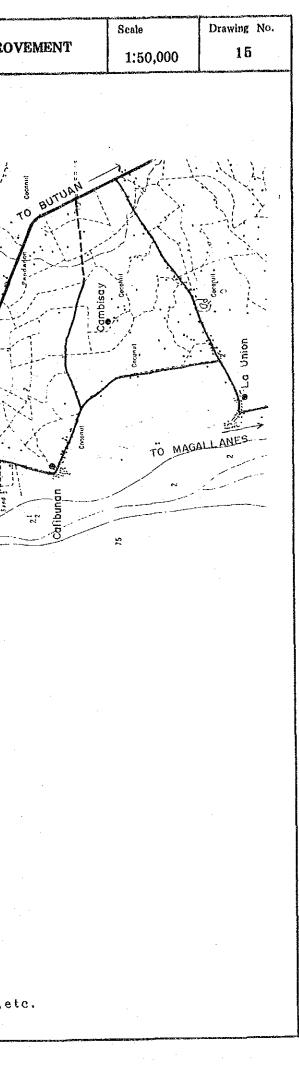
PRESENT CONDITION AND PROPOSED IMPROVEMENT

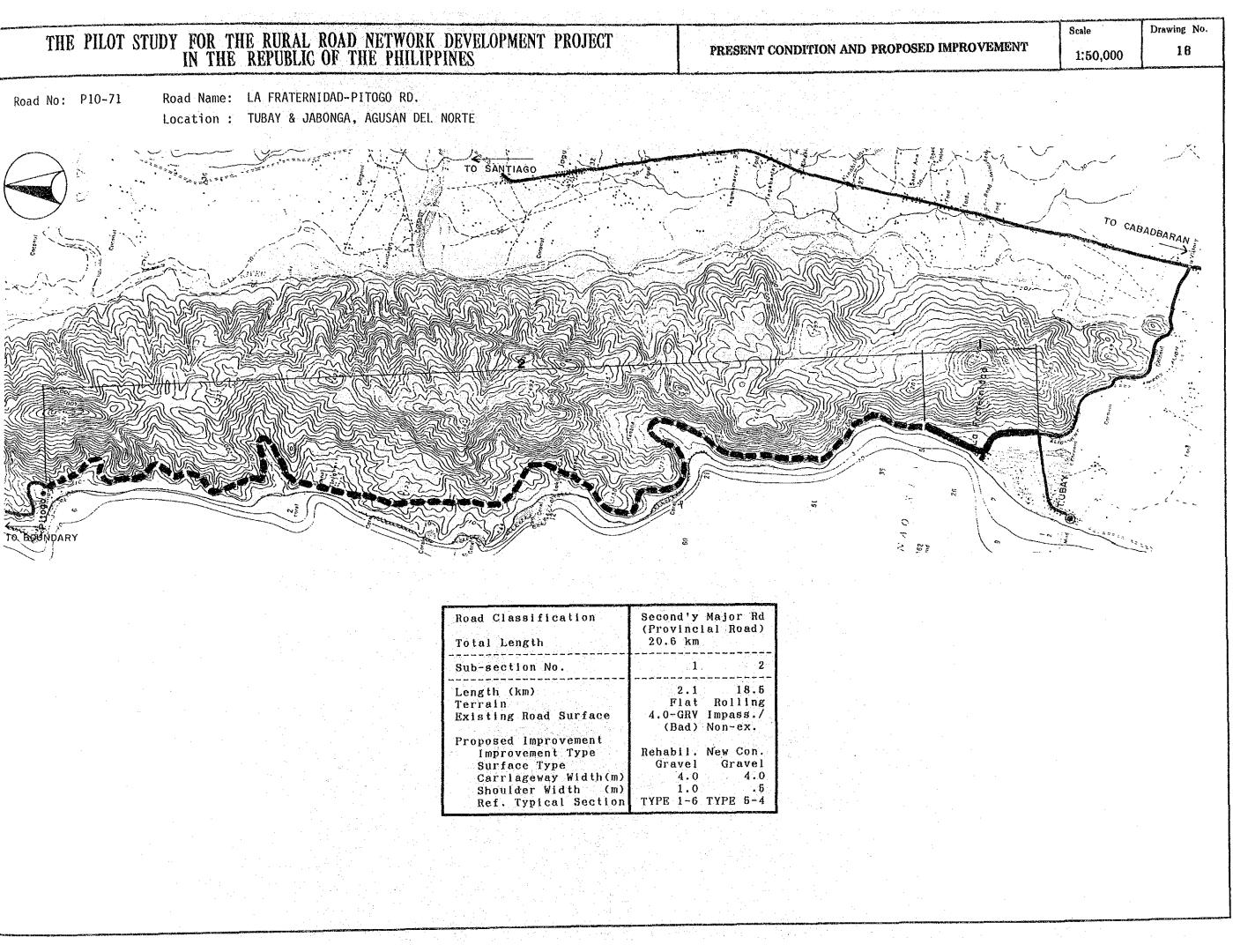
Road No: P10-70 Road Name: DONA ROSARIO-TUBAY ROAD Location : TUBAY, AGUSAN DEL NORTE



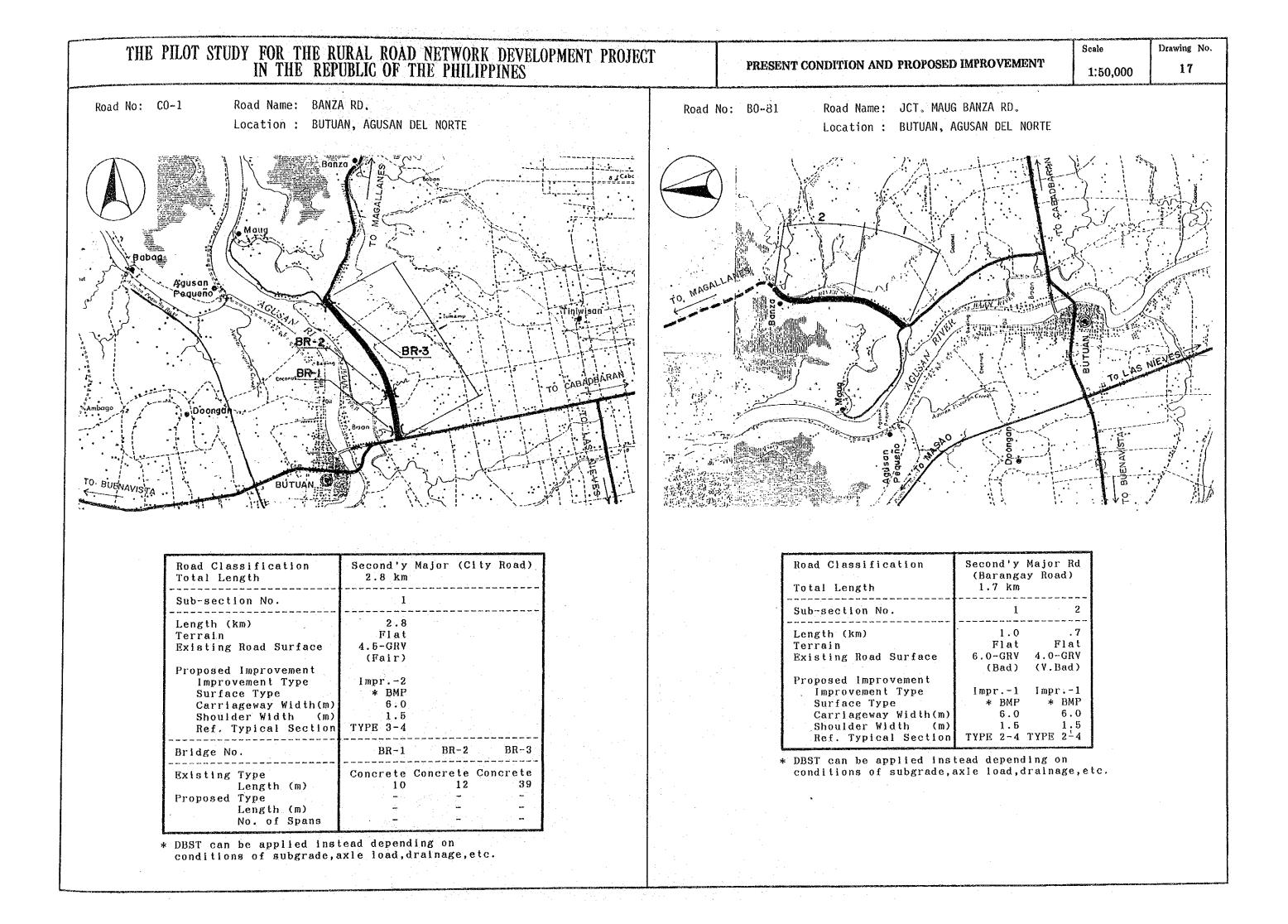
Road Classification Total Length	Secondary Major (Provincial Road) 5.6 km
Sub-section No.	$1 \qquad 2 \qquad 3 \qquad 4 \qquad 5$
Length (km) Terrain Existing Road Surface Proposed Improvement Improvement Type Surface Type Carriageway Width(m) Shoulder Width (m) Ref. Typical Section	1.5 $1.0$ $1.5$ $1.0$ $1.5$
Bridge No.	BR-1 BR-2 BR-3 BR-4
Existing Type Length (m) Proposed Type Length (m) No. of Spans	Steel Bailey Bailey Bailey 46 75 42 18 - 2Lane-Br 2Lane-Br 2Lane-Br - 75 45 20 - 3 3 1

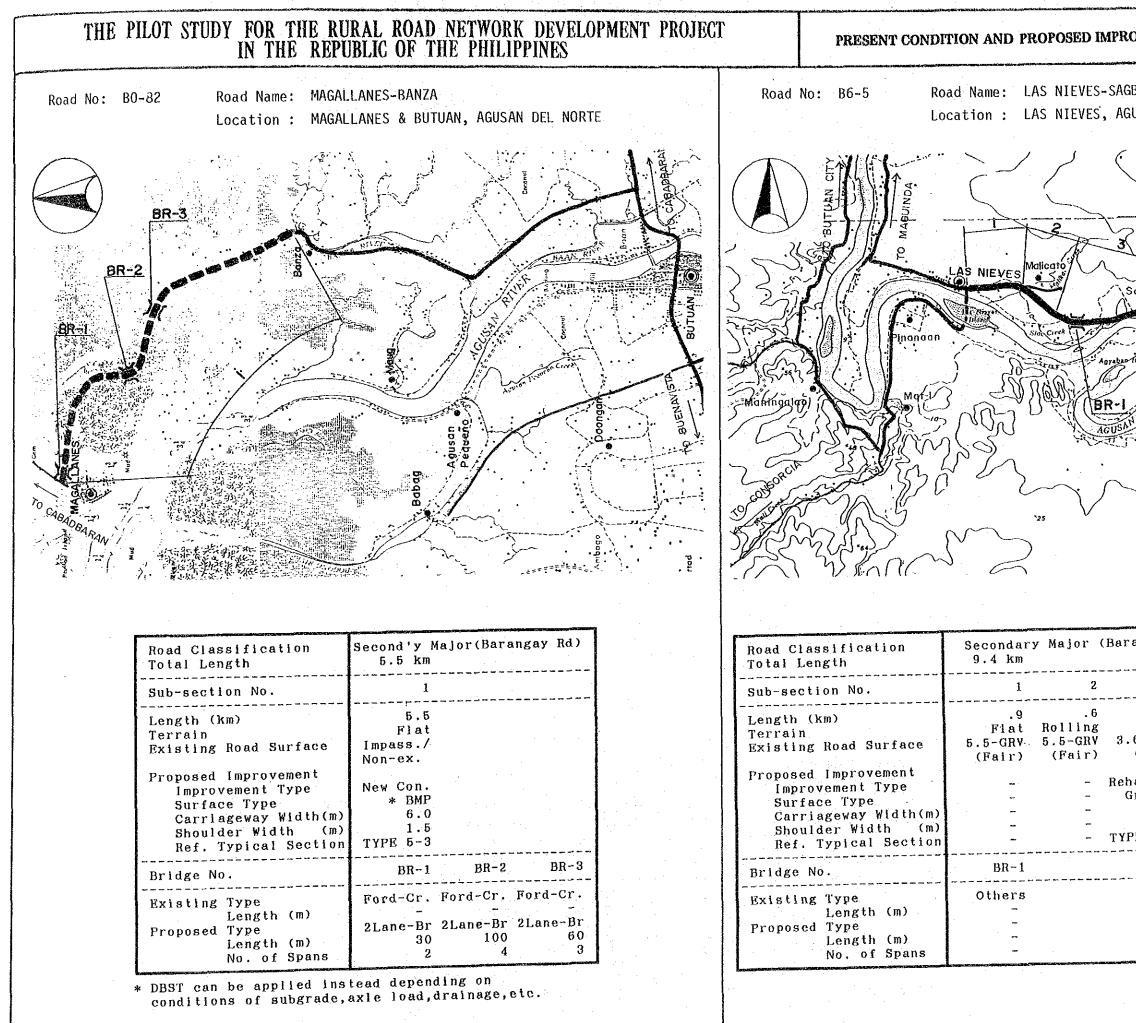
\* DBST can be applied instead depending on conditions of subgrade,axle load,drainage,etc.





Road Classification Total Length	Second'y Major Rd (Provincial Road) 20.6 km
Sub-section No.	1. 2
Length (km) Terrain Existing Road Surface Proposed Improvement Improvement Type Surface Type Carriageway Width(m) Shoulder Width (m) Ref. Typical Section	2.1 18.5 Flat Rolling 4.0-GRV Impass./ (Bad) Non-ex. Rehabil. New Con. Gravel Gravel 4.0 4.0 1.0 .5 TYPE 1-6 TYPE 5-4

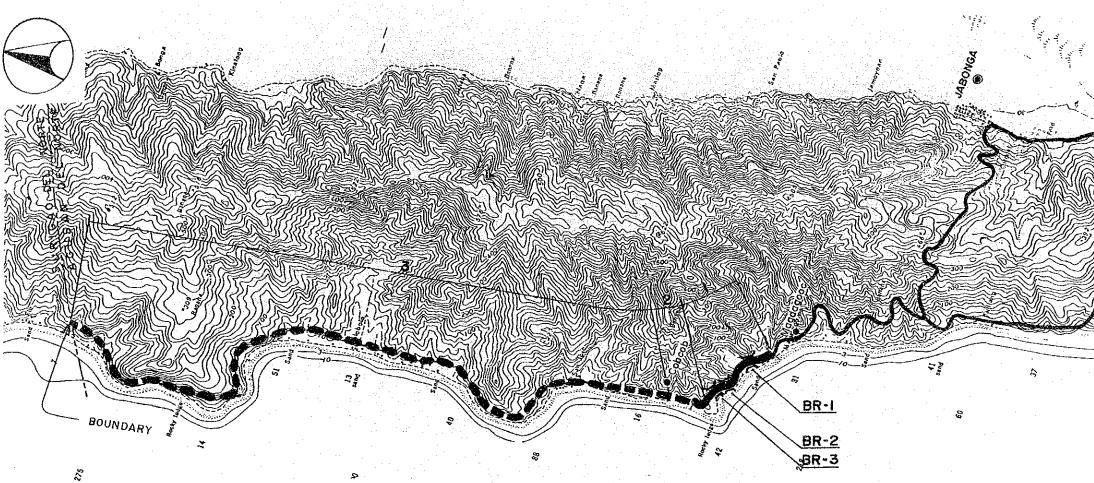




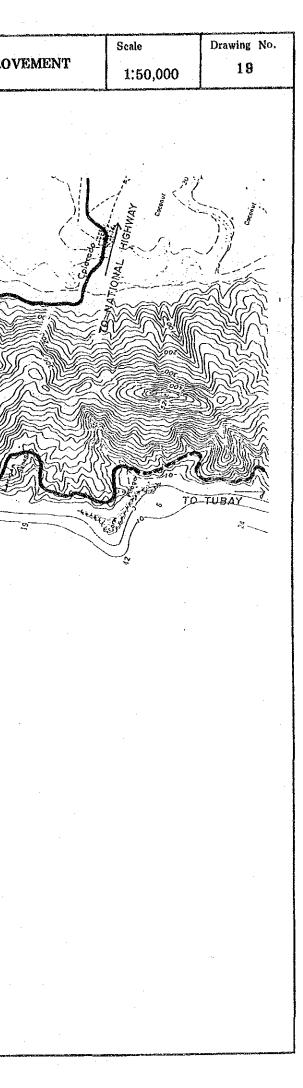
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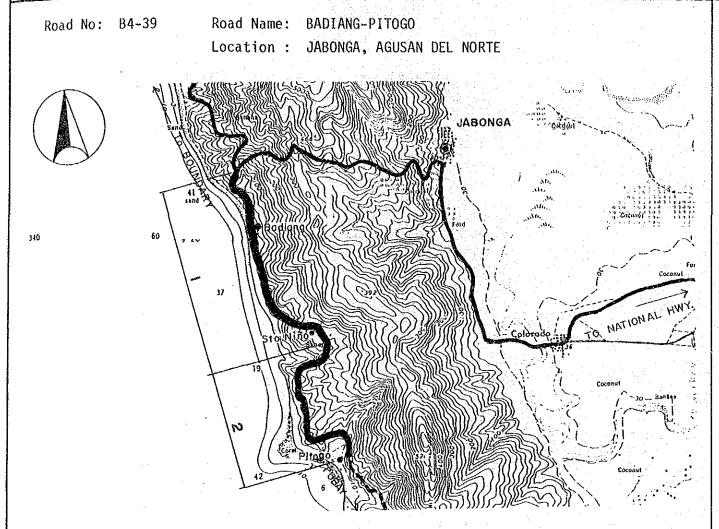
PRESENT CONDITION AND PROPOSED IMPROVEMENT

Road No: B4-34 Road Name: MAGDAGOOC-BDRY, SURIGAO Location : JABONGA, AGUSAN DEL NORTE

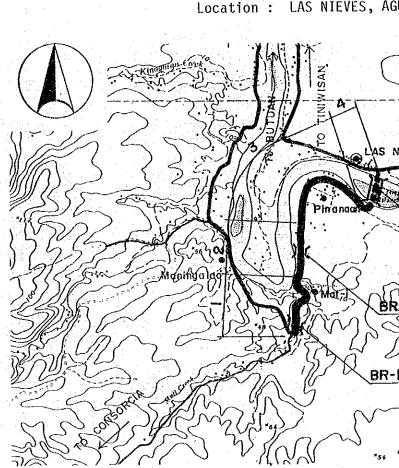


Road Classification Total Length	Second'y Major(Barangay Rd) 8.8 km
Sub-section No.	1 2 3
Length (km) Terrain Existing Road Surface Proposed Improvement Improvement Type Surface Type Carriageway Width(m) Shoulder Width (m) Ref. Typical Section	1.1.47.3Rolling Rolling RollingRolling Rolling2.8-EAR Impass./ Impass./(V.Bad) Non-ex.Impr1 New Con. New Con.Gravel Gravel Gravel4.04.04.05.5.5TYPE 2-8 TYPE 5-4 TYPE 5-4
Bridge No.	BR-1 BR-2 BR-3
Existing Type Length (m) Proposed Type Length (m) No. of Spans	Ford-Cr. Ford-Cr. Ford-Cr. 1Lane-Br 1Lane-Br 1Lane-Br 7 7 10 1 1 1





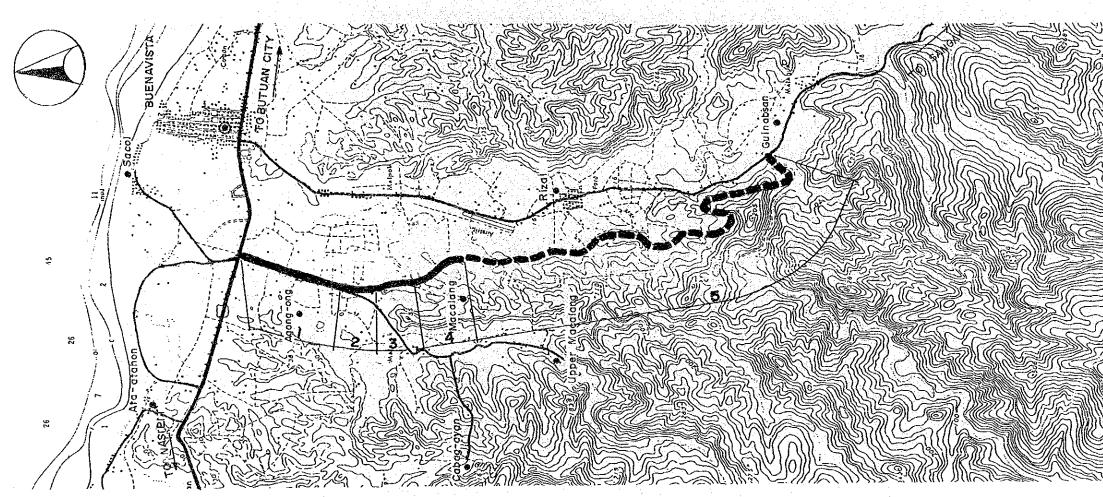
Road Classification Total Length	Second'y Major Rd (Barangay Road) 5.5 km
Sub-section No.	1 2
Length (km) Terrain Existing Road Surface Proposed Improvement Improvement Type Surface Type Carriageway Width(m) Shoulder Width (m) Ref. Typical Section	3.0 2.5 Rolling Rolling Impass./ Impass./ Non-ex. Non-ex. New Con. New Con. Gravel Gravel 4.0 4.0 .5 .5 TYPE 5-4 TYPE 5-4



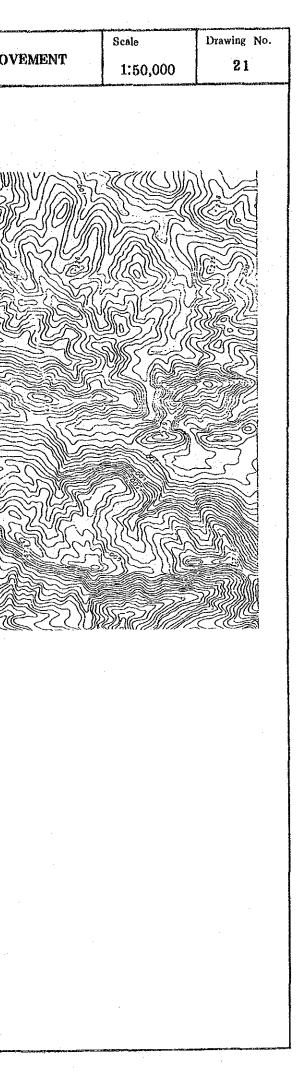
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R	oad Classific		econdar	*56		and the second secon	-
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R T  L T E	oad Classific otal Length ub-section No ength (km) errain xisting Road Proposed Improving Improvement Surface Typ Carriageway Shoulder Wie	Furface S vement Type I e Width(m) ith (m)	econdary 4.4 km 1 1.3 tolling .6-EAR (Bad) mpr1 Gravel 6.0 .5	y Major ( 2 .7 Flat 5.5-EAR (Bad) Impr1 Gravel 6.0 1.0	Barangay 3 1.7 Flat 4.0-EAR	Road) 4 .7 Flat 3.6-EAR (V.Bad) Impr1 Gravel 6.0 1.0	
R T  L T E P	oad Classific otal Length ub-section No ength (km) errain xisting Road Proposed Improvi Improvement Surface Typ Carriageway	Furface S vement Type I e Width(m) ith (m)	econdar: 4.4 km 1 1.3 tolling .6-EAR (Bad) mpr1 Gravel 6.0 .5 (PE 2-8	y Major ( 2 .7 Flat 5.5-EAR (Bad) Impr1 Gravel 6.0 1.0 TYPE 2-8	Barangay 3 1.7 Flat 4.0-EAR (Bad) Impr1 Gravel 6.0 1.0	Road) 4 .7 Flat 3.6-EAR (V.Bad) Impr1 Gravel 6.0 1.0	

PRESENT CONDITION AND PROPOSED IMPROVEMENT

Road No: N3-1 Road Name: AGUSAN-DEL NORTE-BUKIDNON Location : BUENAVISTA, AGUSAN DEL NORTE

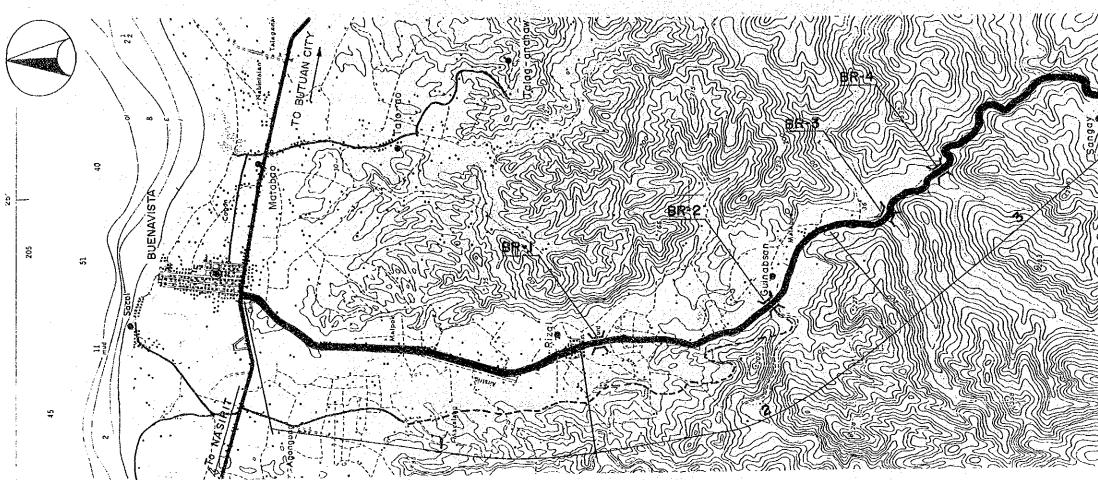


Road Classification Total Length	Minor Road (National Road) 10.5 km
Sub-section No.	1 2 3 4 5
Length (km) Terrain Existing Road Surface	1.6.4.6.97.0FlatFlatRollingRollingMt'nous4.0-GRV5.5-GRV5.5-GRV5.5-GRVImpass./(Fair)(Fair)(Bad)(V.Bad)Non-ex.
Proposed Improvement Improvement Type Surface Type Carriageway Width(m) Shoulder Width (m) Ref. Typical Section	Rehabil. Rehabil. New Con. Gravel Gravel Gravel 6.0 6.0 4.0 5 .5 .5 - TYPE 1-6 TYPE 1-6 TYPE 5-4

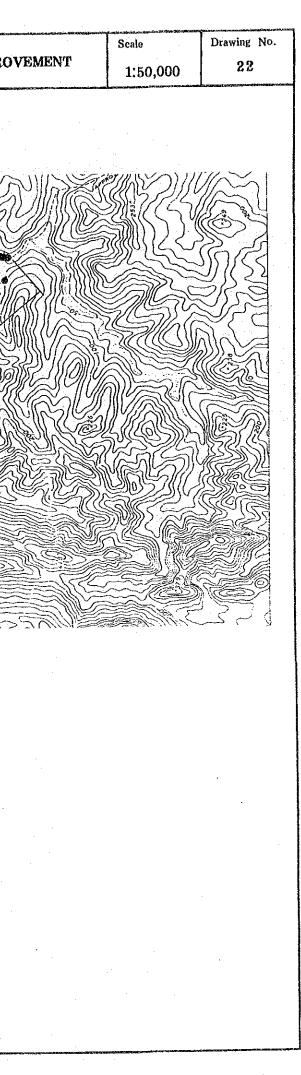


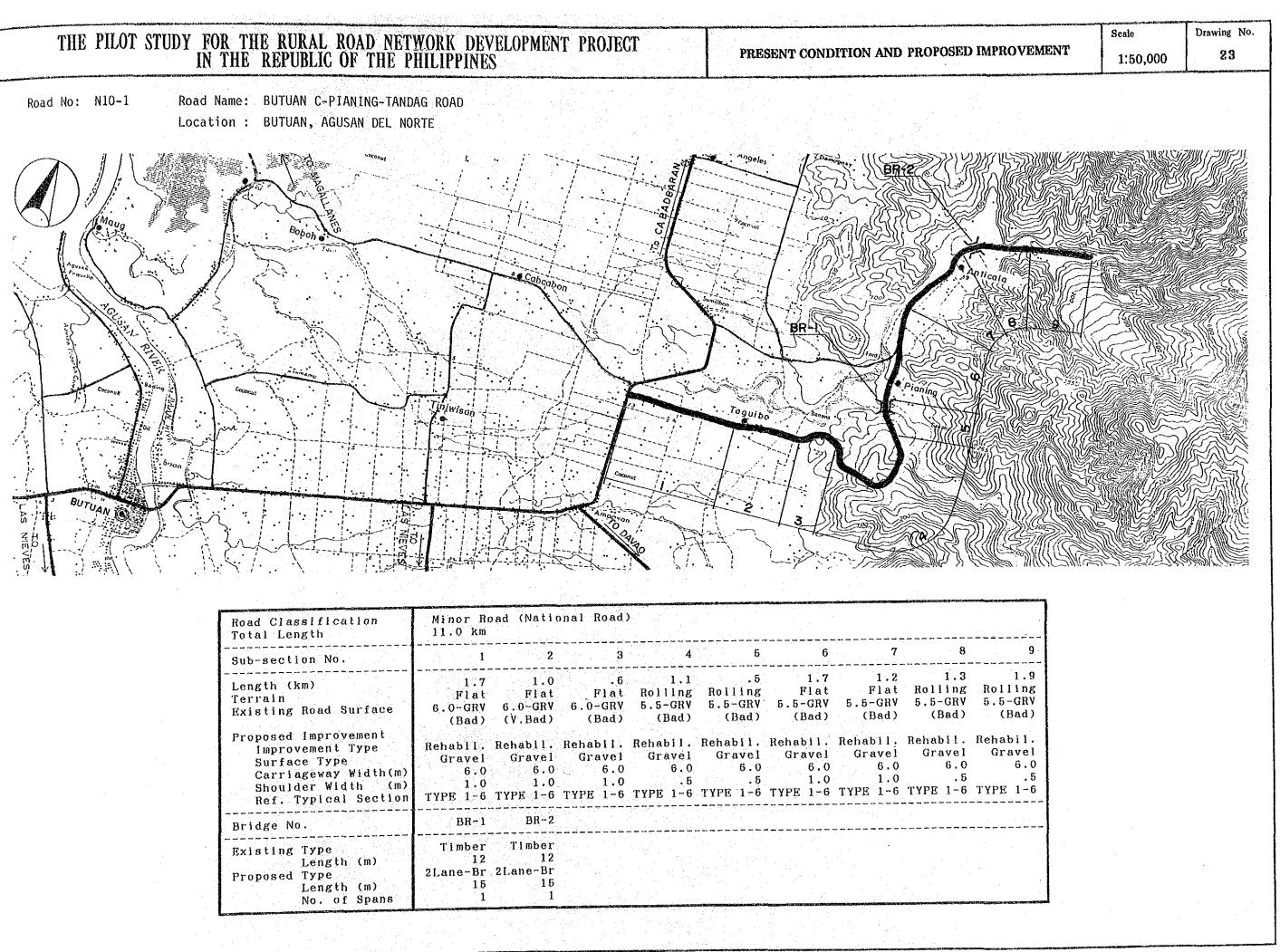
PRESENT CONDITION AND PROPOSED IMPROVEMENT

Road No: N5-1 Road Name: BUENAVISTA-BANAGUIT ROAD Location : BUENAVISTA, AGUSAN DEL NORTE



Road Classification Total Length	Minor Road (National Road) 16.5 km
Sub-section No.	1 2 3
Length (km) Terrain Existing Road Surface Proposed Improvement Improvement Type Surface Type Carriageway Width(m) Shoulder Width (m) Ref. Typical Section	7.8 4.1 4.6 Flat Flat Rolling 6.0-GRV 6.0-GRV 6.0-GRV (Fair) (Fair) (Bad) Rehabil. Gravel 6.0 5 - TYPE 1-6
Bridge No.	BR-1 BR-2 BR-3 BR-4
Existing Type Length (m) Proposed Type Length (m) No. of Spans	Ford-Cr. Ford-Cr. Ford-Cr. Ford-Cr. 2Lane-Br 2Lane-Br 2Lane-Sp 2Lane-Sp 60 60 15 30 3 3





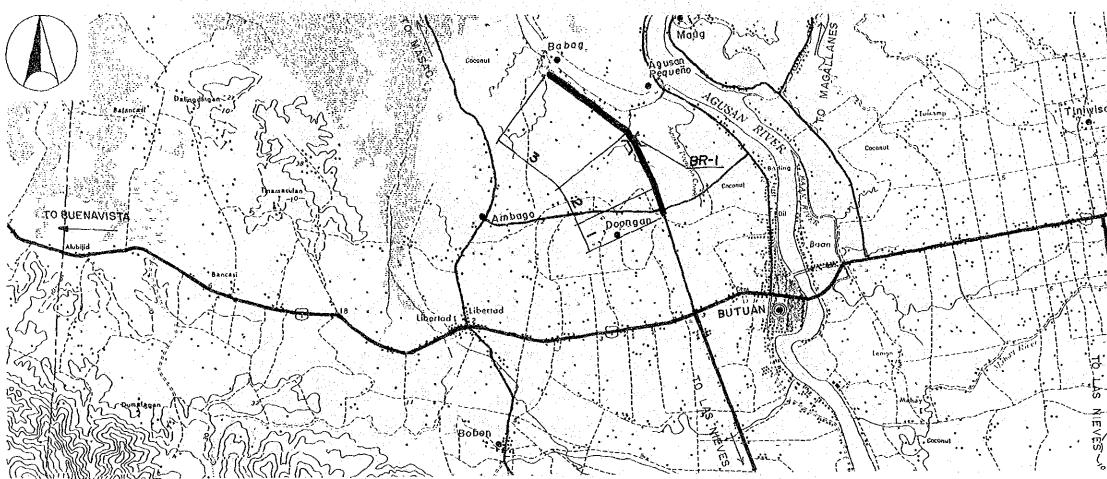
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Road Classification Total Length	Minor Ro 11.0 km		onal Road	)					
Sub-section No.		2	3	4	5	6	7	8	
Length (km) Terrain Existing Road Surface	1.7 Flat 6.0-GRV (Bad)	Flat 6.0-GRV	Flat 6.0-GRV	1.1 Rolling 5.5-GRV (Bad)	Rolling 5.5-GRV	5.5-GRV	Flat 5.5-GRV	Rolling	
Proposed Improvement Improvement Type Surface Type Carriageway Width(m) Shoulder Width (m) Ref. Typical Section	6.0 1.0	Gravel 6.0	Gravel 6.0	Gravel 6.0	Gravel 6.0	Gravel 6.0 1.0	Grave1 6.0 1.0	6.0 65	Gra
Bridge No.	BR-1	BR-2							
Existing Type Length (m) Proposed Type Length (m) No. of Spans	Timber 12 2Lane-Br 15 1	2Lane-Br				Mercowywe for the analysis (1999)	NEW YORK NEW YORK NEW YORK NEW YORK	warden and the count of the count	2140 <del>June June 19</del>

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### PRESENT CONDITION AND PROPOSED IMPROVEMENT

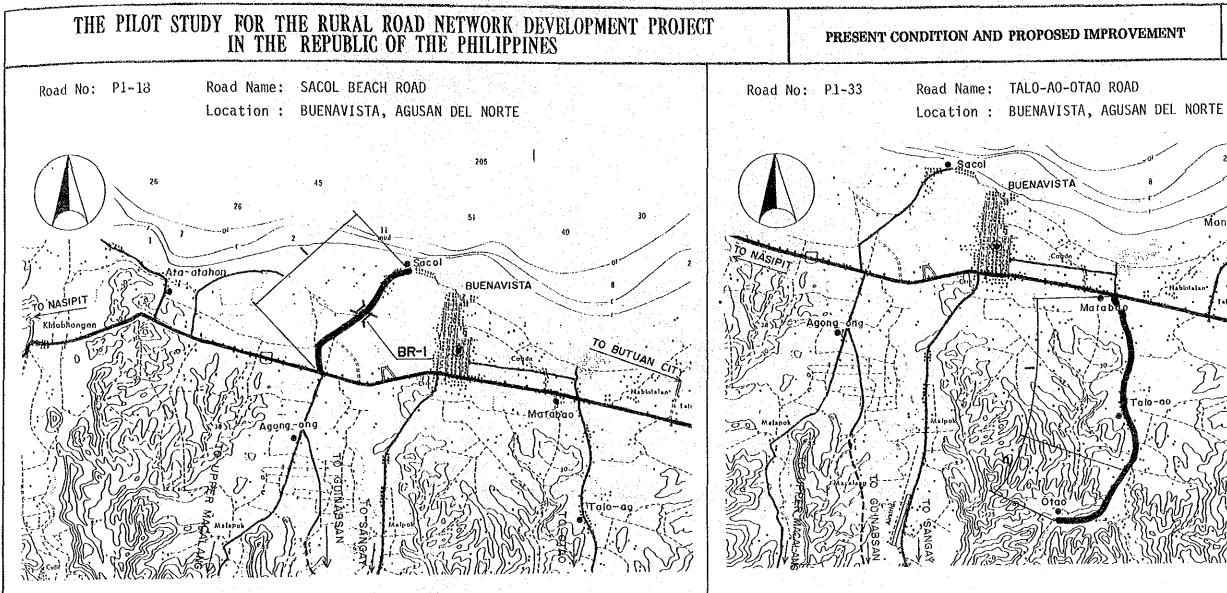
Road Name: BUTUAN CITY-MASAO PORT ROAD Road No: N12-1

Location : BUTUAN, AGUSAN DEL NORTE



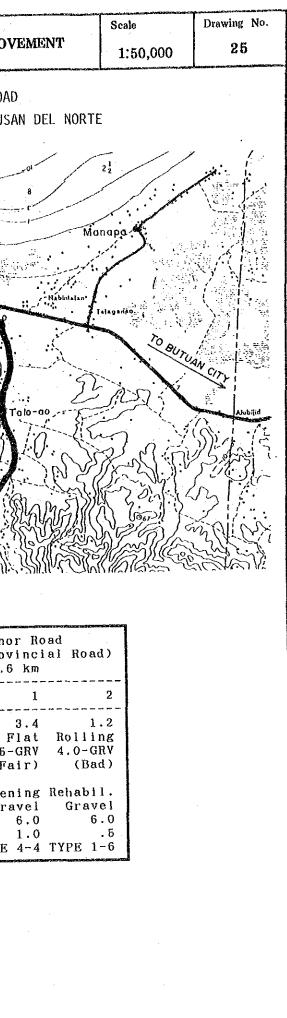
그는 것 같은 것 같	
Road Classification Total Length	Minor Road (National Road) 2.5 km
Sub-section No.	1 2 3
Length (km) Terrain Existing Road Surface Proposed Improvement Improvement Type Surface Type Carriageway Width(m) Shoulder Width (m) Ref. Typical Section	.4 .9 1.2 Flat Flat Flat 6.7-PCC 5.5-GRV 5.5-GRV (Good) (V.Bad) (V.Bad) - Rehabil. Rehabil. - Gravel Gravel - 6.0 6.0 - 1.0 1.0 - TYPE 1-6 TYPE 1-6
Bridge No.	BR÷1
Existing Type Length (m) Proposed Type Length (m) No. of Spans	Concrete 24 -

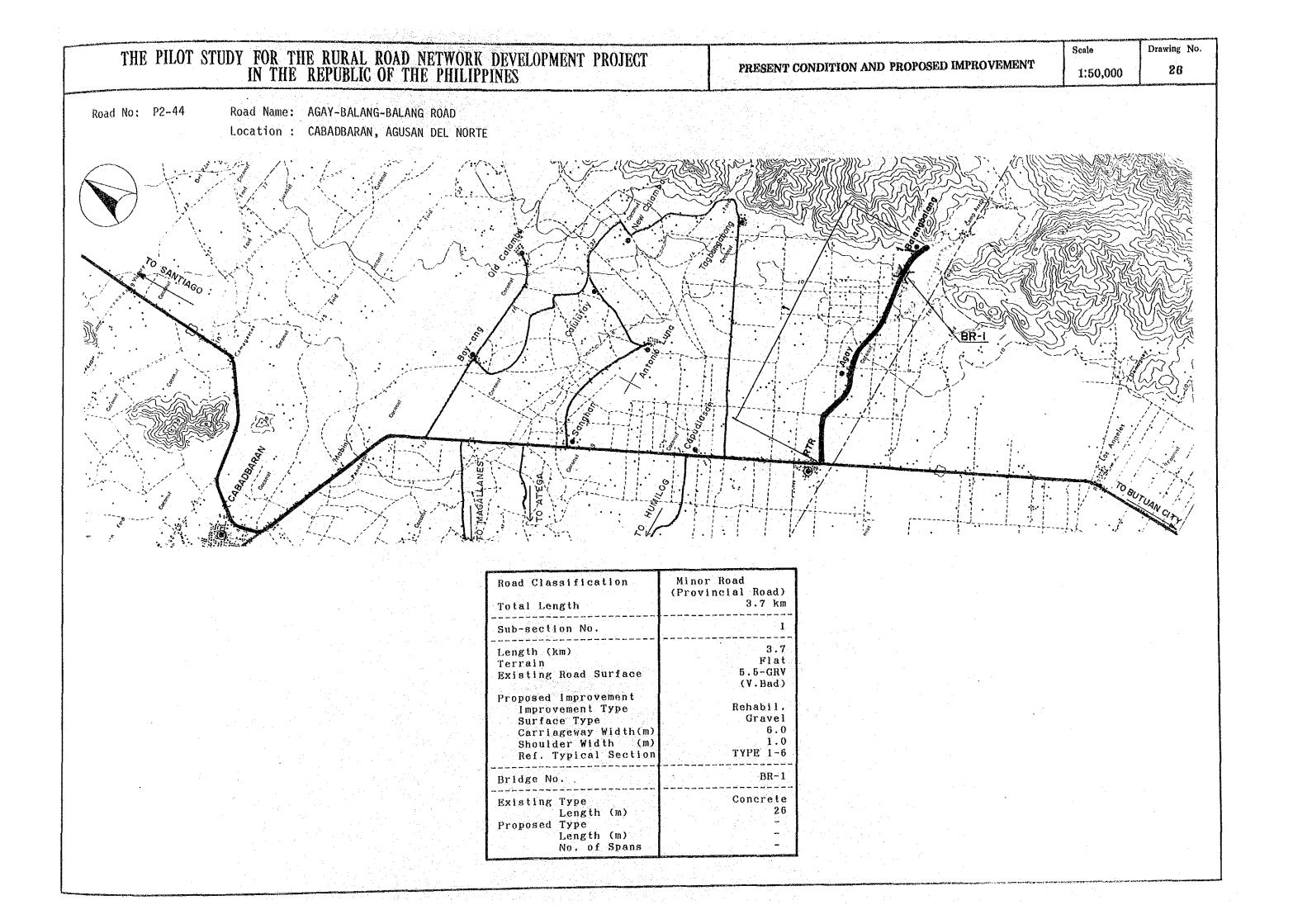


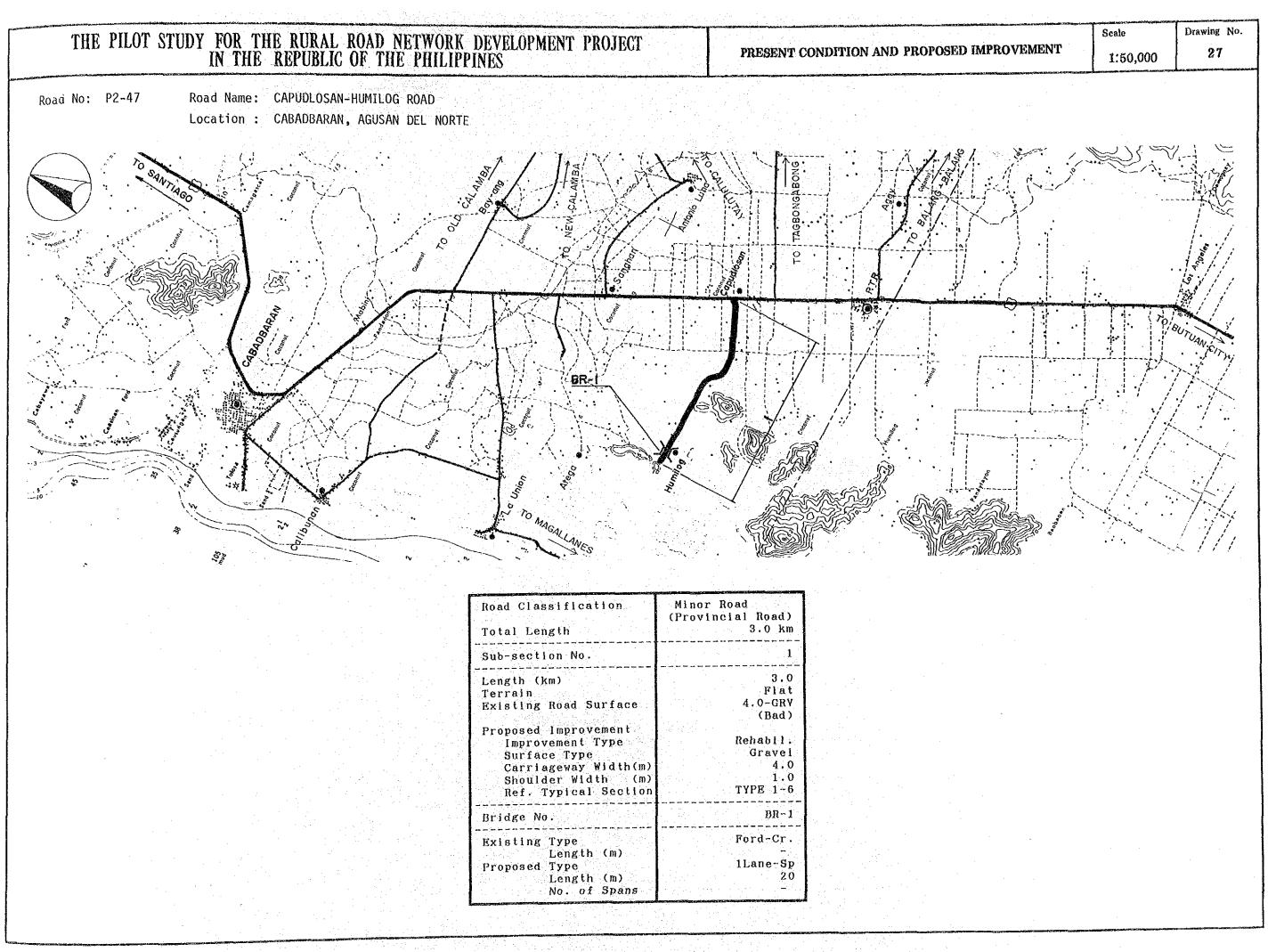


-	
Road Classification	Minor Road (Provincial Road) 1.9 km
Total Length	1,3 Am
Sub-section No.	1
Length (km) Terrain Existing Road Surface	1.9 Flat 4.5-GRV (Fair)
Proposed Improvement Improvement Type Surface Type Carriageway Width(m) Shoulder Width (m) Ref. Typical Section	Widening Gravel 6.0 1.0 TYPE 4-4
Bridge No.	BR-1
Existing Type Length (m) Proposed Type Length (m) No. of Spans	Bailey 15 -

Road Classification	Mino (Prov
Total Length	4.6
Sub-section No.	
Length (km)	1
Terrain	F
Existing Road Surface	4.5- (Fa
Proposed Improvement	
Improvement Type	Wider
Surface Type	Gra
Carriageway Width(m)	а. — Р.
Shoulder Width (m)	
Ref. Typical Section	TYPE







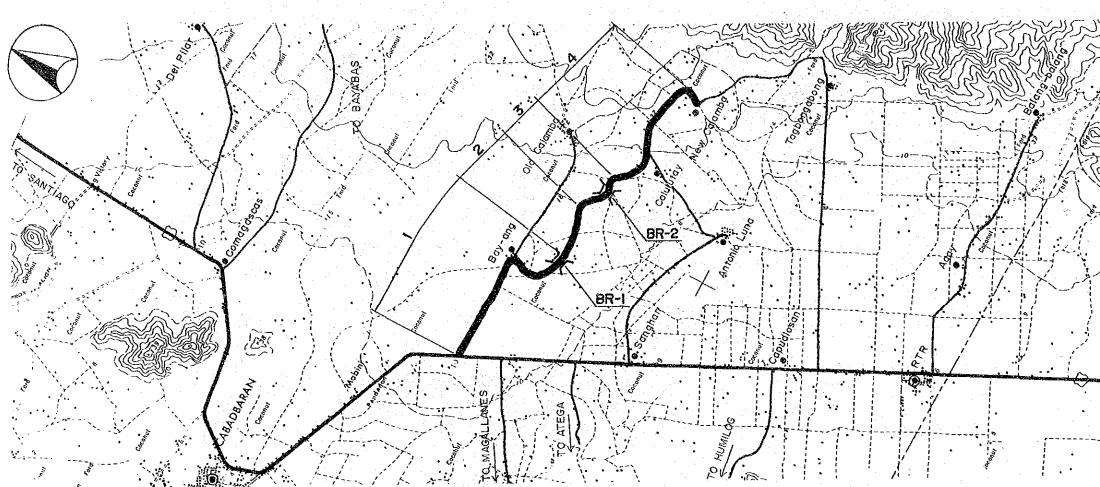
Sub-section No.	1
Length (km) Terrain Existing Road Surface Proposed Improvement Improvement Type Surface Type Carriageway Width(m) Shoulder Width (m) Ref. Typical Section	3.0 Flat 4.0-GRV (Bad) Rehabil. Gravel 4.0 1.0 TYPE 1-6
Bridge No.	BR-1
Existing Type Length (m) Proposed Type Length (m) No. of Spans	Ford-Cr. 1Lane-Sp 20

PRESENT CONDITION AND PROPOSED IMPROVEMENT

Road No: P2-49

Road Name: PANDANON-BAY-ANG-CALAMBA ROAD

Location : CABADBARAN, AGUSAN DEL NORTE



Road Classification Total Length	Minor Road (Provincial Road) 6.0 km
Sub-section No.	1 2 3 4
Length (km) Terrain Existing Road Surface	2.5 .7 .7 2.1 Flat Flat Flat Flat 6.0-GRV 5.5-GRV 4.0-GRV 5.5-GRV (Bad) (V.Bad) (V.Bad) (Bad)
Proposed Improvement Improvement Type Surface Type Carriageway Width(m) Shoulder Width (m) Ref. Typical Section	
Bridge No.	BR-1 BR-2
Existing Type Length (m) Proposed Type Length (m) No. of Spans	Concrete Bailey 28 15 - - -

