# REPUBLIC OF THE PHILIPPINES DEPARTMENT OF PUBLIC WORKS & HIGHWAYS

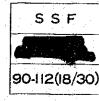
# Feasibility Study on The Rural Road Network Development Project

FINAL REPORT (Volume 18)

DRAWINGS FOR ROAD PROJECTS
IN
THE PROVINCE OF RIZAL

OCTOBER, 1990

JAPAN INTERNATIONAL COOPERATION AGENCY



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THE FEASIBILITY	STUDY 0	N THE	RURAL	ROAD	NETWORK	DEVELOPMENT	PROJECT
	IN T	HE REI	PURLIC (	OF THE	PHILIPPIN	ies -	

CONTENTS

Drawing No.

Scale

### CONTENTS

Drawing No.

Title

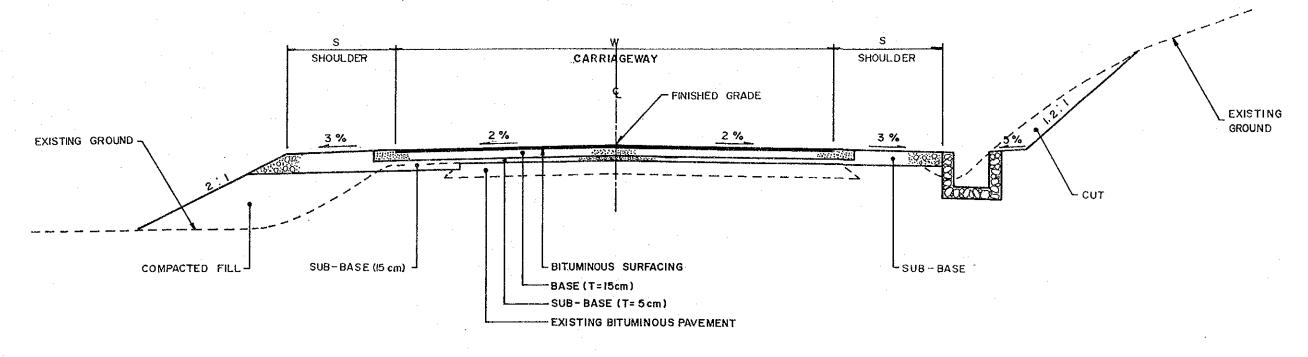
1 LOCATION MAP 2 to 9 TYPICAL ROAD SECTIONS 10 to 33 PRESENT CONDITION AND PROPOSED IMPROVEMENT

## LIST OF ROADS

Road Class	Road No.	Drawing No.	Road Class	Road No.	Drawing No.	Road Class	Road No.	Drawing No.
Primary	N 13 - 5	10		N 1 - 5	23		B 11 - 5	33
Major Road	N 13 - 7	11		N3 - 1	24	1	B 11 - 6	33
	N 1 - 4	12 8 13		N4 - 3	. 25			
	N2 - 2	14		P2 - 1	25	<u> </u>		
	N 10 - 2	15		P3 - 1	26	-		
Secondary	N 10 - 3	16	Minor Road	P3 - 2	26	Minor Road		·
Major Road	N 12 - 3	17	·	P5 - 1	27	<del>-</del>		
. [	N 12 - 4	18	·	P18 - 1	28	-		
	N 12 - 5	19		80 - 1	29			
	N 18 - 1	20		B1 - 1	30			
	N 20 - 2	21		B7 - 2	31			
	N23 - 1	22		B9 - 2	32	-		

Scale 1:50

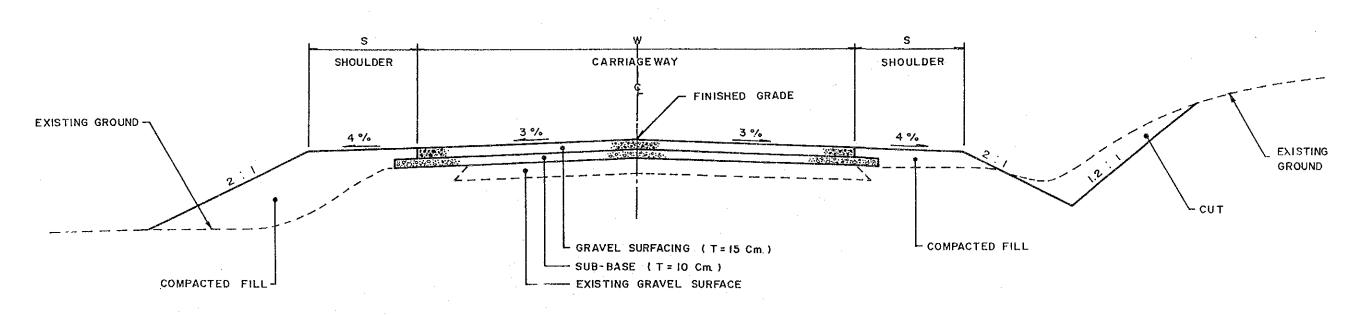
Drawing No.



#### TYPE 1-5

PROPOSED PAVEMENT : BITUMINOUS MACADAM/DOUBLE BITUMINOUS SURFACE TREATMENT

EXISTING PAVEMENT : BITUMINOUS (BAD/VERY BAD)



#### TYPE 1-6

PROPOSED PAVEMENT : GRAVEL SURFACING

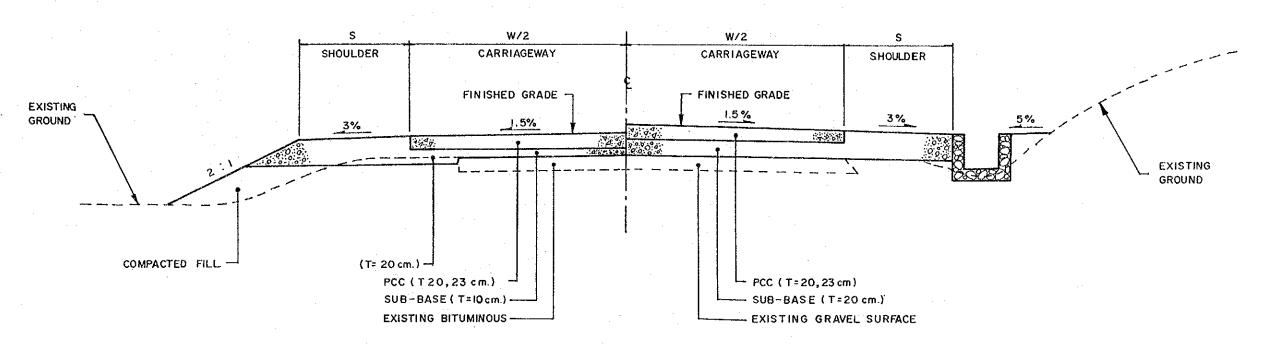
EXISTING PAVEMENT : GRAVEL SURFACING (BAD./VERY BAD)

### REHABILITATION (2)

Scale 1:50

Drawing No.

4



TYPE 2-1

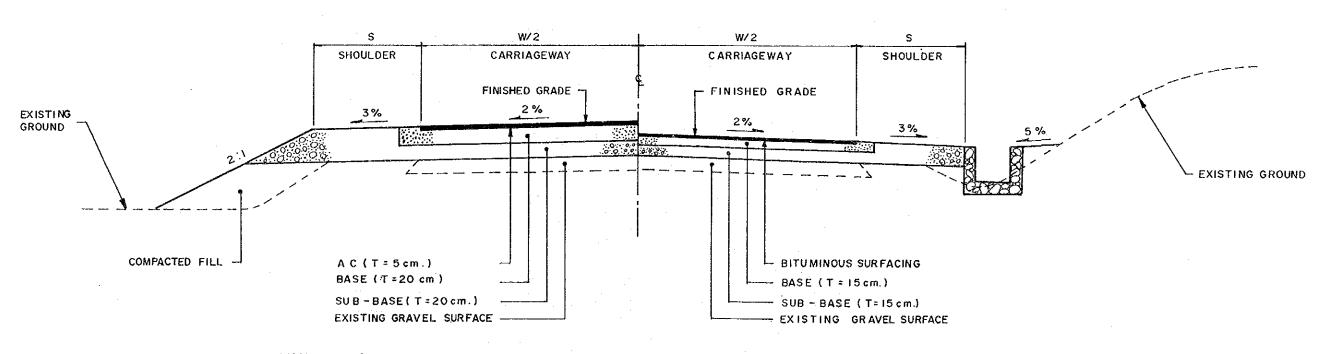
PROPOSED PAVEMENT : PCC

EXISTING PAVEMENT : BITUMINOUS (BAD/VERYBAD)

TYPE 2-2

PROPOSED PAVEMENT : PCC

EXISTING PAVEMENT : GRAVEL SURFACING (BAD/VERY BAD)



**TYPE 2-3** 

PROPOSED PAVEMENT : ASPHALT CONCRETE EXISTING PAVEMENT : GRAVEL SURFACING

(BAD/VERY BAD)

TYPE 2-4

PROPOSED PAVEMENT : BITUMINOUS MACADAM / DOUBLE BITUMINOUS

SURFACE TREATMENT

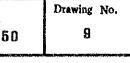
EXISTING PAVEMENT : GRAVEL SURFACING (BAD / VERY BAD)

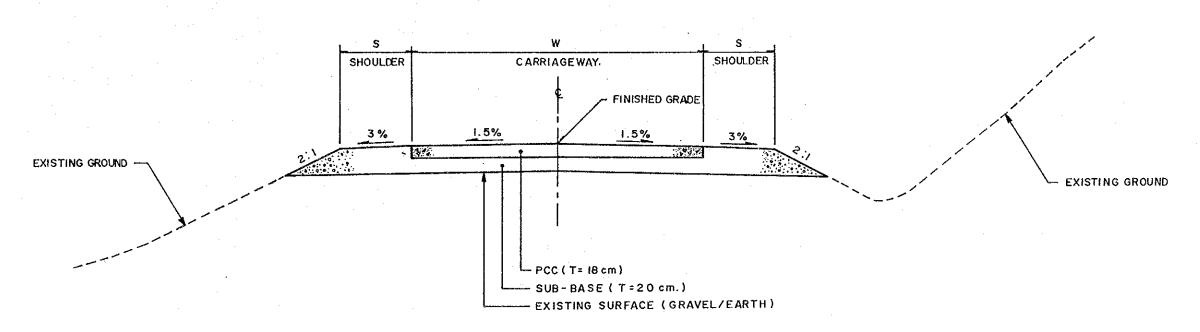
IMPROVEMENT-I (I)

TYPICAL ROAD SECTIONS (8)

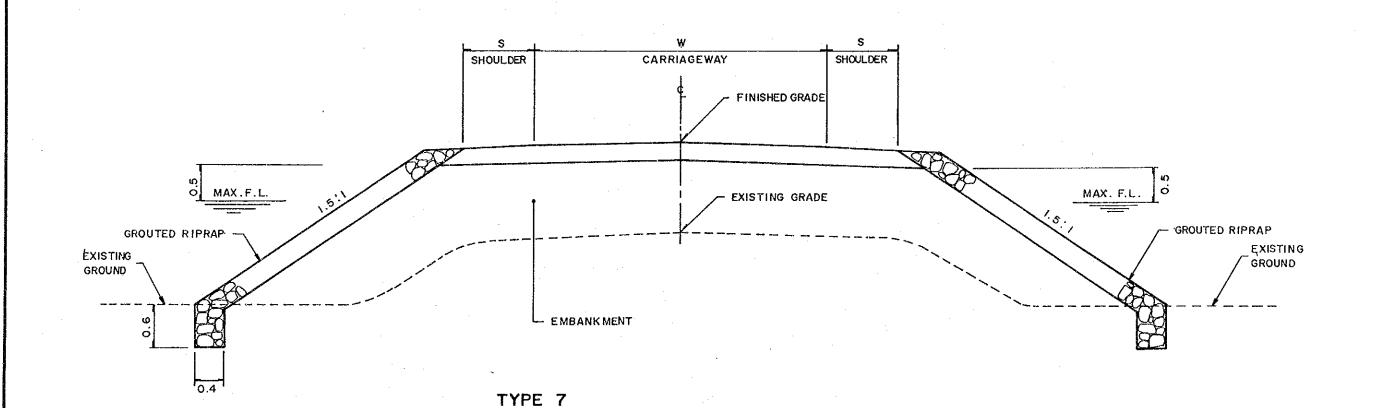
Scale

1:50





TYPE 6
PCC PAVEMENT FOR STEEP GRADIENT SECTIONS



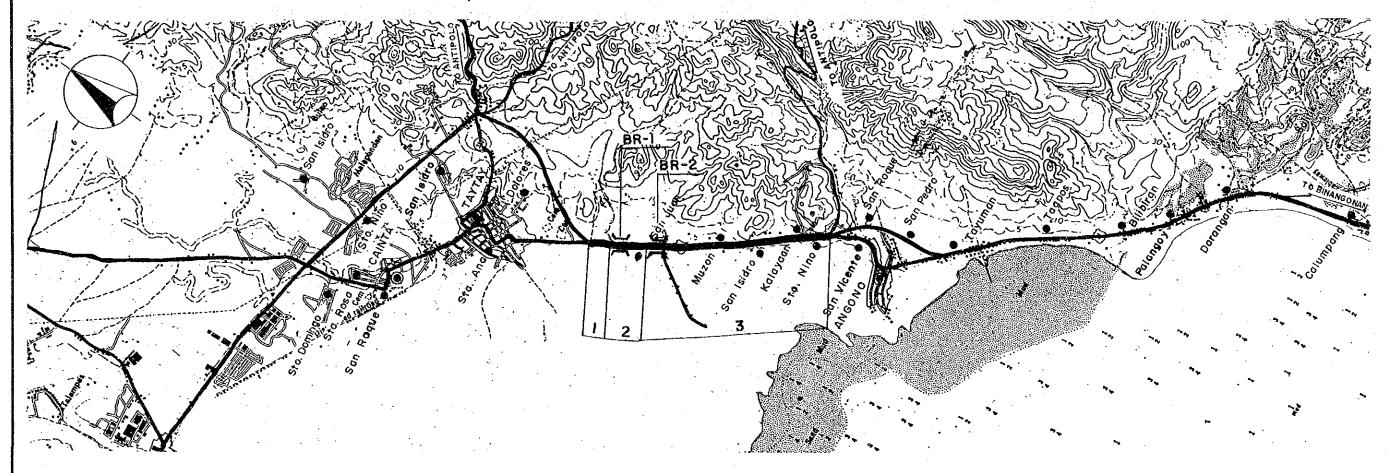
GRADE RAISING SECTIONS IN FLOOD AREA

PRESENT CONDITION AND PROPOSED IMPROVEMENT

Scale 1:50,000 Drawing No. 10

Road No: N13-5

Road Name: MANILA EAST ROAD Location: TAYTAY & ANGONO, RIZAL



Road Classification Total Length	Primary Major (National Rd) 3.2 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	.2 .5 2.5 Flat Flat Flat 7.0-PCC 7.0-BTM 7.0-PCC (Fair) (Good) (Bad)  - Rehabil, - Overlay - 7.0 - 2.0 - TYPE 1-2
Bridge No.	BR-1 BR-2
Existing Type Length (m) Proposed Type Length (m) No. of Spans	Concrete Concrete 6 6

PRESENT CONDITION AND PROPOSED IMPROVEMENT

Scale

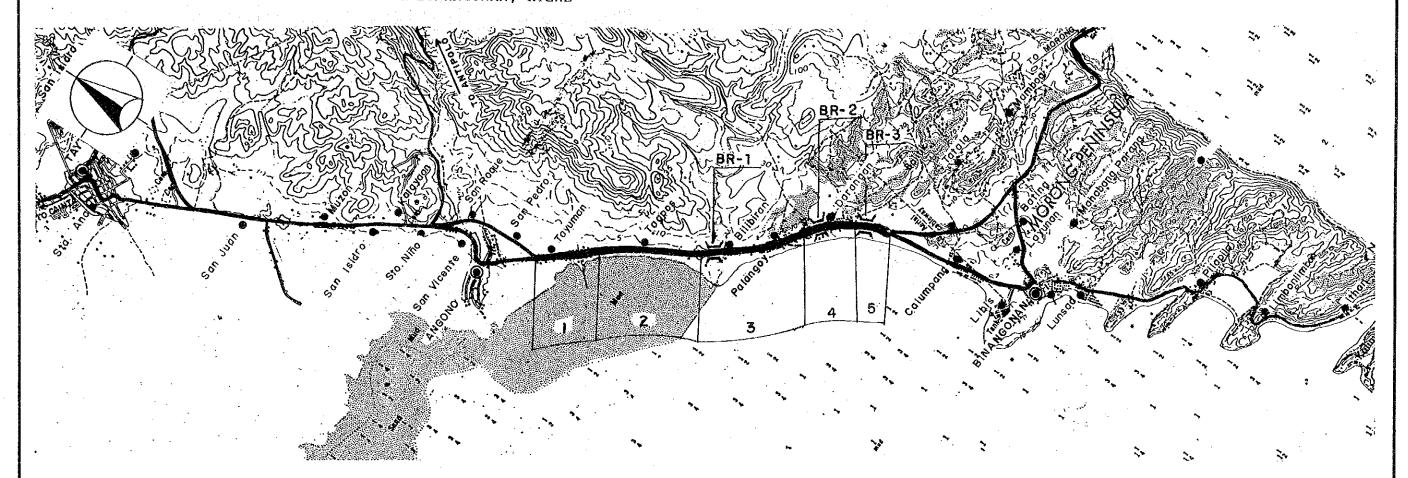
1:50,000

11

Drawing No.

Road No: N13-7

Road Name: MANILA EAST ROAD Location: ANGONO & BINANGONAN, RIZAL



Road Classification Total Length	Primary Major (National Road) 5.0 km
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	.9 1.4 1.5 .7 .5 Flat Riat Flat Flat Flat 6.0-PCC 6.0-PCC 6.0-PCC 6.0-PCC (Fair) (Bad) (Fair) (Good) (Bad)  - Rehabil Rehabil Overlay - Overlay - 6.0 6.0 - 2.0 - TYPE 1-2 - TYPE 1-2
Bridge No.	BR-1 BR-2 BR-3
Existing Type Length (m) Proposed Type Length (m) No. of Spans	Concrete Concrete 36 36 11

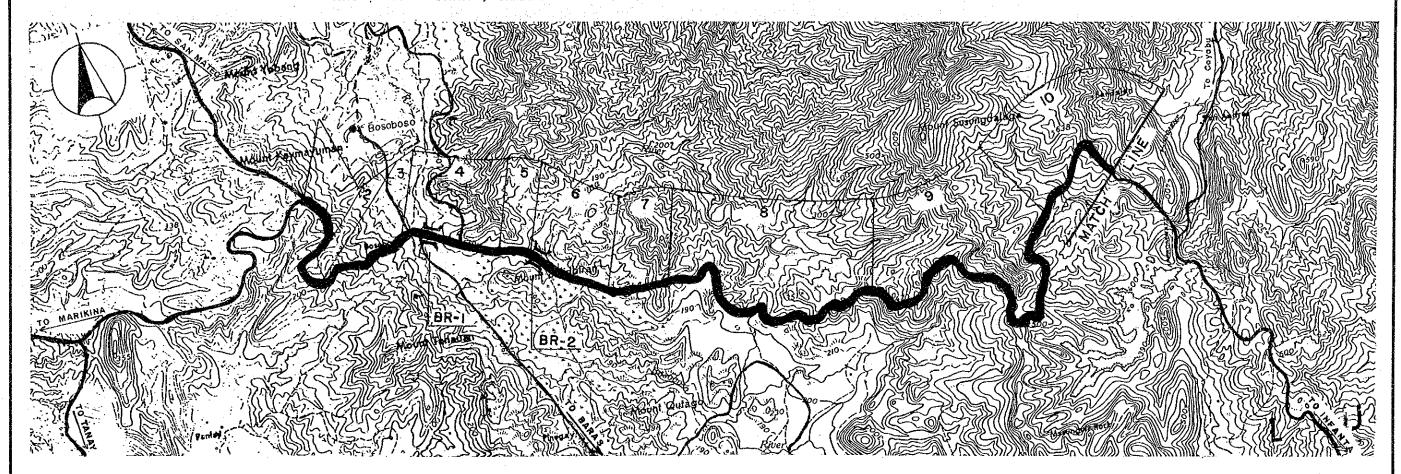
12

Drawing No.

1:50,000

Road No: N1-4

Road Name: MARCOS HIGHWAY Location: ANTIPOLO & TANAY, RIZAL



Road Classification Total Length	Seconda 32.2 km	ry Major	(National	Road)						
Sub-section No.	1	2	3	4	5	6	7	8	9.	10
Length (km)	.7	. 9	1.6	1.4	. 6	1.2	. ŝ	.4.0	5.6	1.7
Terrain	Mt'nous	Mt'nous	Rolling	Flat	Flat	Rolling	Mt'nous	Mt'nous	Mt'nous	Mt'nous
Existing Road Surface	6.0-BTM							6.0-BTM	5.5-GRY	6.0-GRV
	(Fair)	(Bad)	(V.Bad)	(V.Bad)	(Bad)	(Bad)	(V.Bad)	(Y.Bad)	(V.Bad)	(V.Bad)
Proposed Improvement			<u>.</u>				<b>.</b> .			
Improvement Type	<b>~</b> .	Rehabil.								
Surface Type	-	Overlay			Gravel					
Carriageway Width(m)	-	6.0					6.0			6.0
Shoulder Width (m)	-	1.0	1.0	1.5	1.0		.5 TYPE 1 C	1.0		
Ref. Typical Section Special Treatment	_	TIPE 1-4	11112 1-9	11FE 1-3	TYPE 1-6	1112 1-4	1116 1-0	TIPE 1-8	11PE 1-0	TIPE 1-0
Slope Protection								•		
(Cut Slope)	'			-		-	_	20	100	
(Embank't Slop)	_			-	<u>-</u>	_		10	30	_
				·						
Bridge No.	BR-1	BR-2					•	·		
Existing Type	Concrete	Concrete			+ 44 44 149 149 149 149 149 149 149 149 1	* ** ** ** ** ** ** ** **		* *** ** ** ** ** ** **	****	
Length (m)	36	48								
Proposed Type	_	-	•		•					
Length (m)	<b></b>	-	•						•	
No. of Spans	-	-					•			

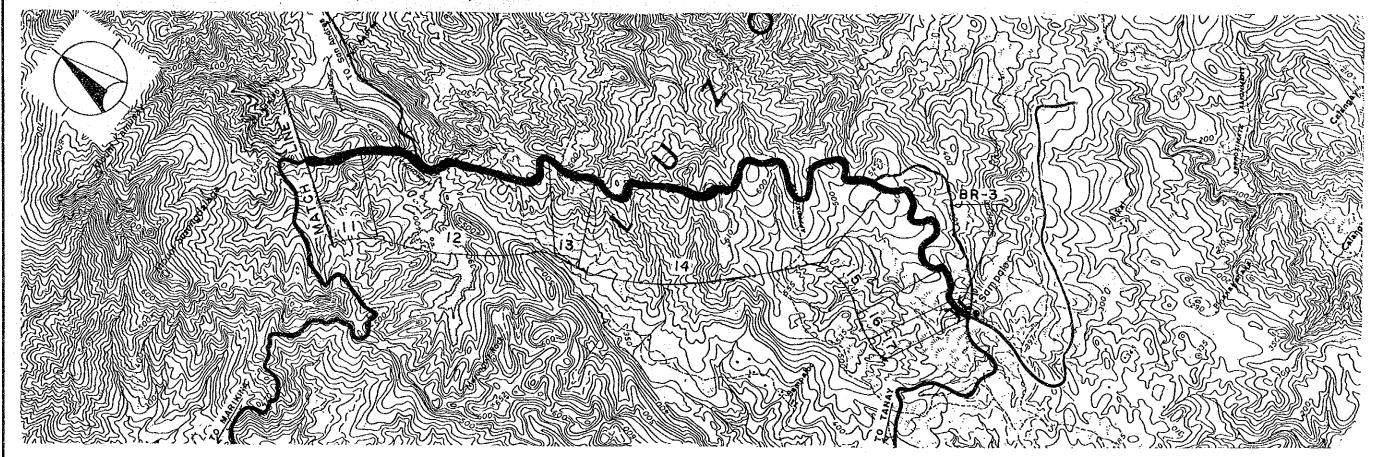
<sup>\*</sup> DBST can be applied instead depending on conditions of subgrade, axle load, drainage, etc.

Drawing No. 13

1:50,000

Road No: N1-4

Road Name: MARCOS HIGHWAY Location: ANTIPOLO & TANAY, RIZAL



Road Classification Total Length							
Sub-section No.	11	12	13	14	15	16	17
Length (km) Terrain Existing Road Surface  Proposed Improvement Improvement Type Surface Type Carriageway Width (m) Shoulder Width (m) Ref. Typical Section Special Treatment Slope Protection (Cut Slope) (Embank't Slop)	3.0-PCC (Good) Widening PCC 6.0 1.0	Mt'nous 3.0-PCC (Bad) Widening PCC 6.0 1.0	(Fair)	Mt'nous 6.0-GRV (Bad) Rehabil. Gravel 6.0	Mt'nous 6.0-GRV (V.Bad) Rehabil.	Rolling 6.0-PCC (Fair)	Rolling
Bridge No.	BR-3					. gaz gay kaz anı may yan yan may ı	*
Existing Type Length (m) Proposed Type Length (m) No. of Spans	Steel 22 - -	ra em em pra sua sua del que tre a tri	air are dei wa wa sai da da da da	••••••	44 60 44 40 44 44 44		***************************************

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

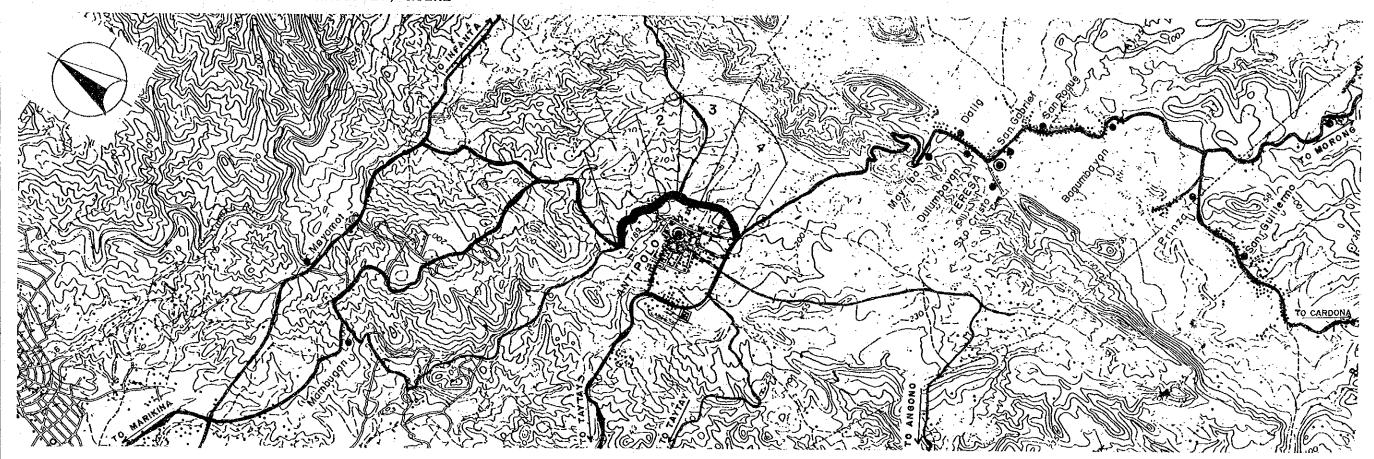
PRESENT CONDITION AND PROPOSED IMPROVEMENT

Scale 1:50,000 Drawing No.

14

Road No: N2-2

Road Name: VICTORIA VALLEY - ANTIPOLO ROAD Location: ANTIPOLO, RIZAL



Road Classification Total Length	Secondar 2.4 km	y Major (	(National	Road)
Sub-section No.	1	2	3	4
Length (km) Terrain Existing Road Surface Proposed Improvement	1.0 Rolling 6.0-PCC (Good)	.2 Rolling 6.0-PCC (Good)	.4 Rolling 6.0-BTM (Good)	6.0-GRV
Improvement Type Surface Type Carriageway Width(m) Shoulder Width (m) Ref. Typical Section	- - - -		-	Impr1 PCC 6.7 1.5 TYPE 2-2

PRESENT CONDITION AND PROPOSED IMPROVEMENT

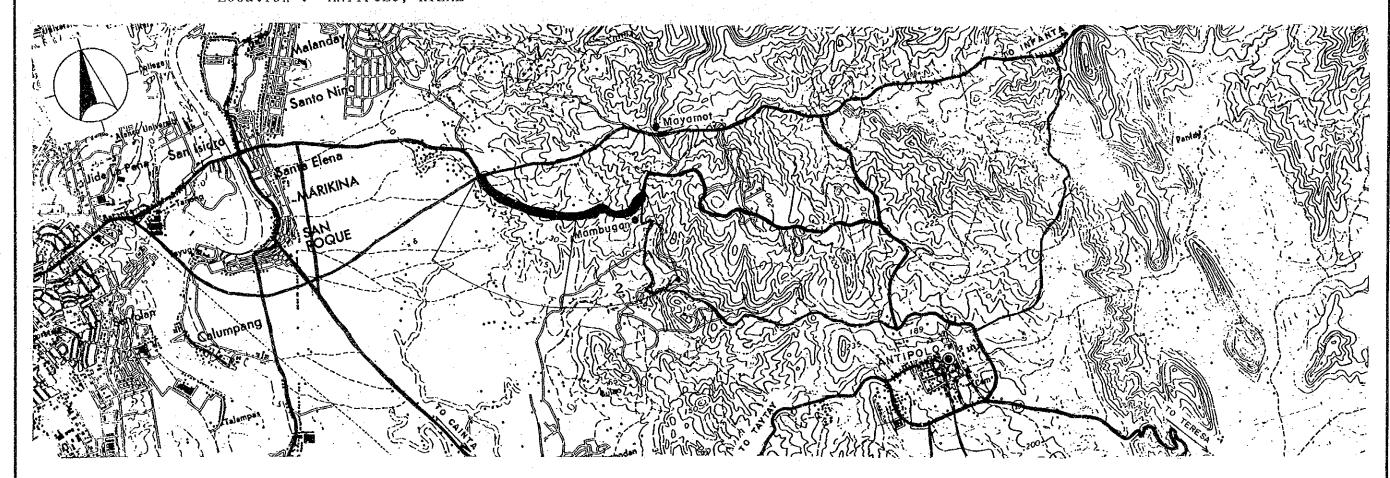
Scale

Drawing No. 15

1:50,000

Road No: N10-2

Road Name: SUMULONG HIGHWAY Location: ANTIPOLO, RIZAL



Road Classification Total Length	Second'y Major Rd (National Road) 2.7 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	1.6 1.1 Rolling Rolling 6.0-PCC 6.0-BTM (Good) (Bad)  - Rehabil Overlay - 6.0 - 1.5 - TYPE 1-4				

PRESENT CONDITION AND PROPOSED IMPROVEMENT

Scale

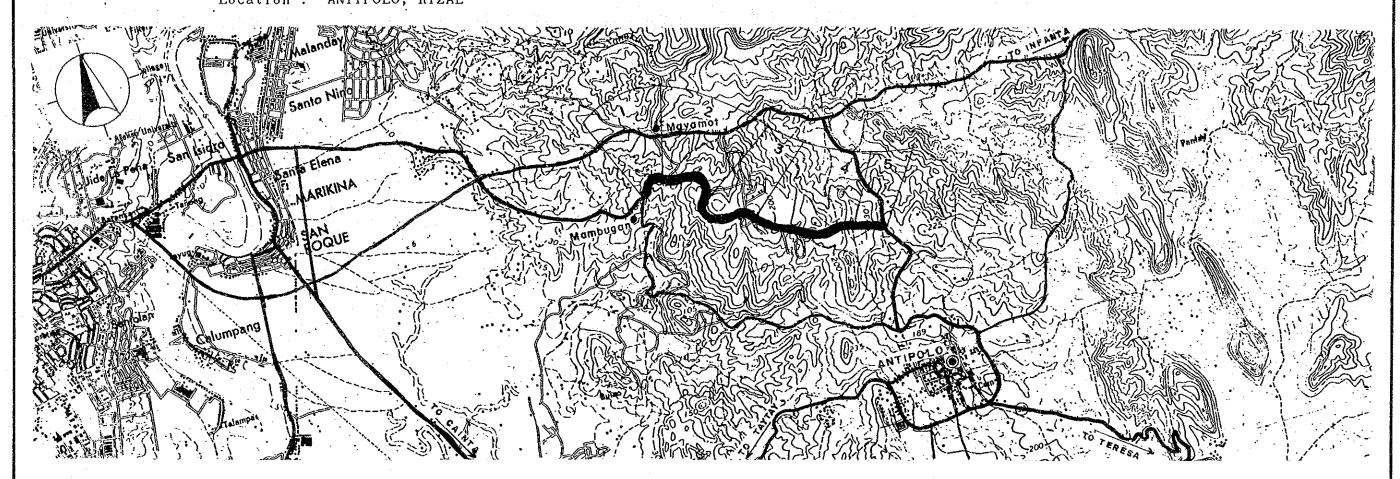
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16

Drawing No.

Road No: N10-3

Road Name: SUMULONG HIGHWAY Location: ANTIPOLO, RIZAL



Road Classification Total Length	Secondar 4.7 km	ry Major (	National	Road)	-
Sub-section No.	1	2	3 -	4	5
Length (km) Terrain Existing Road Surface Proposed Improvement	· <del>-</del>	Rolling 6.0-BTM	1.1 Rolling 6.0-BTM (Good)		A Rolling 6.0-PCC (Good)
Improvement Type Surface Type Carriageway Width(m) Shoulder Width (m) Ref. Typical Section		Rehabil. Overlay 6.0 1.5 TYPE 1-4	- - - -	- - -	- - - -

PRESENT CONDITION AND PROPOSED IMPROVEMENT

Scale

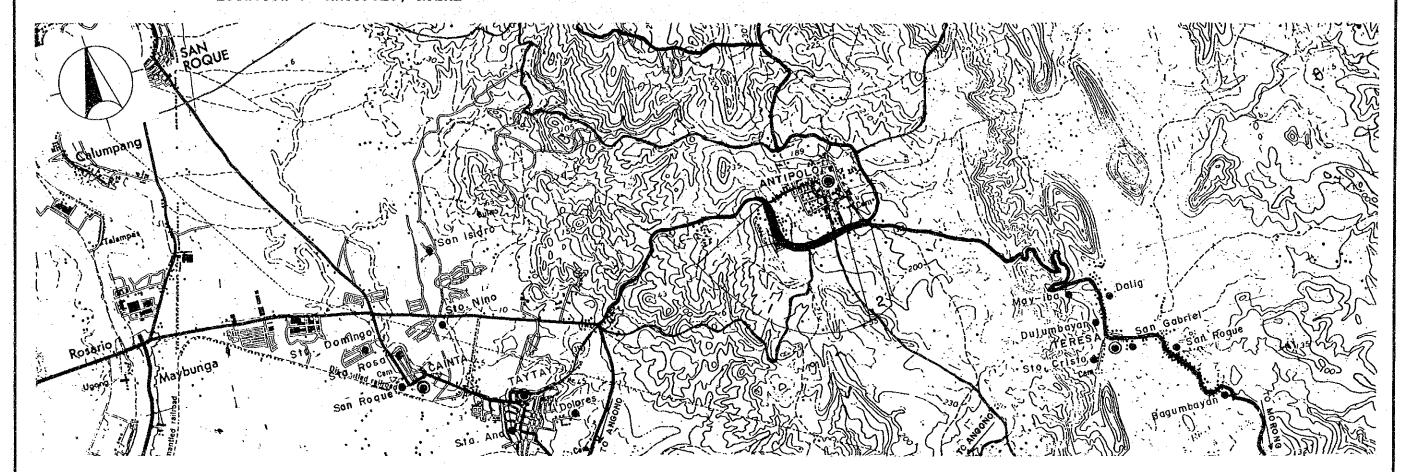
1:50,000

Drawing No.

Road No: N12-3

Road Name: CAINTA - ANTIPOLO - MORONG ROAD

Location: ANTIPOLO, RIZAL



Road Classification Total Length	Second'y Major Rd (National Road) 1.8 km				
Sub-section No.	1 2				
Length (km) Terrain Existing Road Surface Proposed Improvement	1.5 .3 Rolling Rolling 6.0-BTM 6.0-BTM (Bad) (Good)				
Improvement Type	Rehabil				
Surface Type	Overlay -				
Carriageway Width(m)	6.0				
Shoulder Width (m) Ref. Typical Section	1.5 - TYPE 1-4 -				

PRESENT CONDITION AND PROPOSED IMPROVEMENT

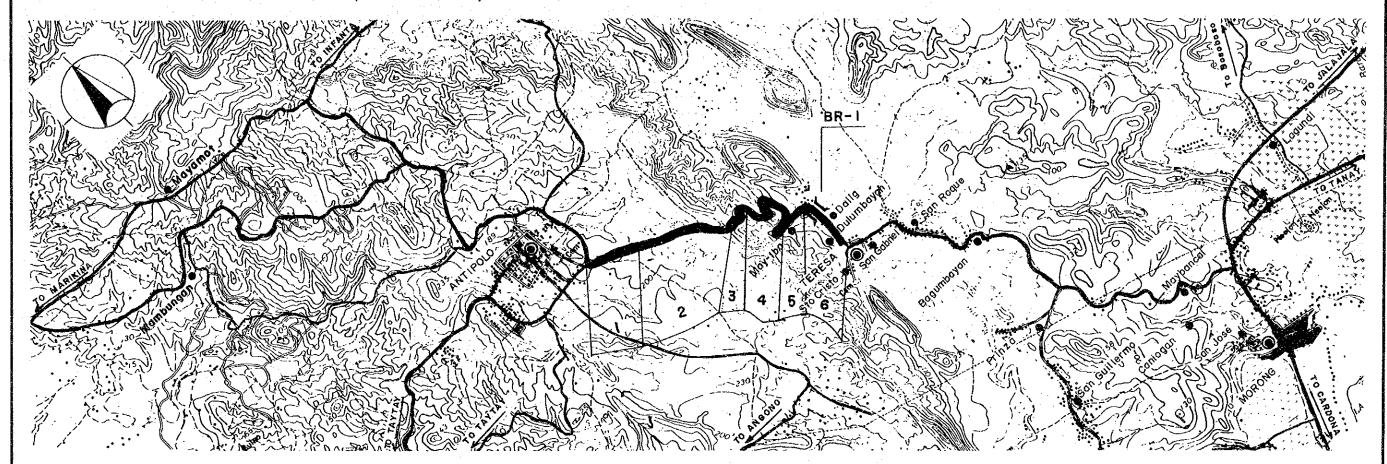
Scale

Drawing No. 18

1:50,000

Road No: N12-4

Road Name: CAINTA - ANTIPOLO - MORONG ROAD Location: ANTIPOLO & TERESA, RIZAL



Road Classification Total Length	Secondar 6.1 km	y Major	(National	Road)		
Sub-section No.	: 1	.2	3	4	5	6
Length (km) Terrain Existing Road Surface Proposed Improvement Improvement Type Surface Type Carriageway Width (m) Shoulder Width Section	.8 Flat 6.0-BTM (Good) - - -	Rolling 6.0-BTM (Fair)	Rolling 6.0-BTM	1.7 Mt'nous 6.0-BTM (Fair)	Rolling 6.0-BTM	Flat
Bridge No.	BR-1					
Existing Type Length (m) Proposed Type Length (m) No. of Spans	Concrete 5 - -		***************************************			

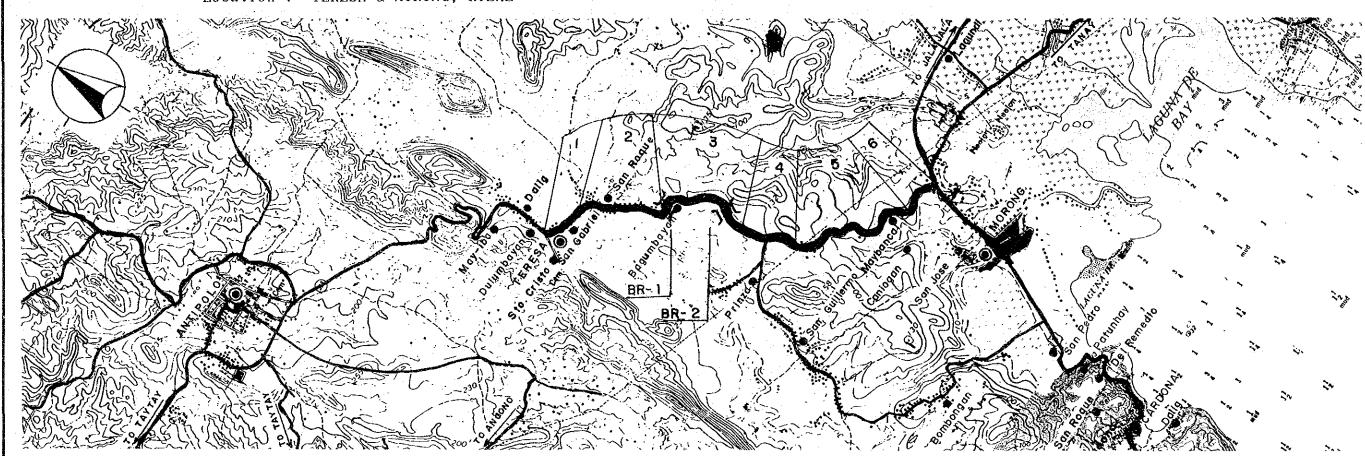
PRESENT CONDITION AND PROPOSED IMPROVEMENT

Scale

Drawing No. 1:50,000 19

Road No: N12-5

Road Name: CAINTA - ANTIPOLO - MORONG ROAD Location: TERESA & MORONG, RIZAL



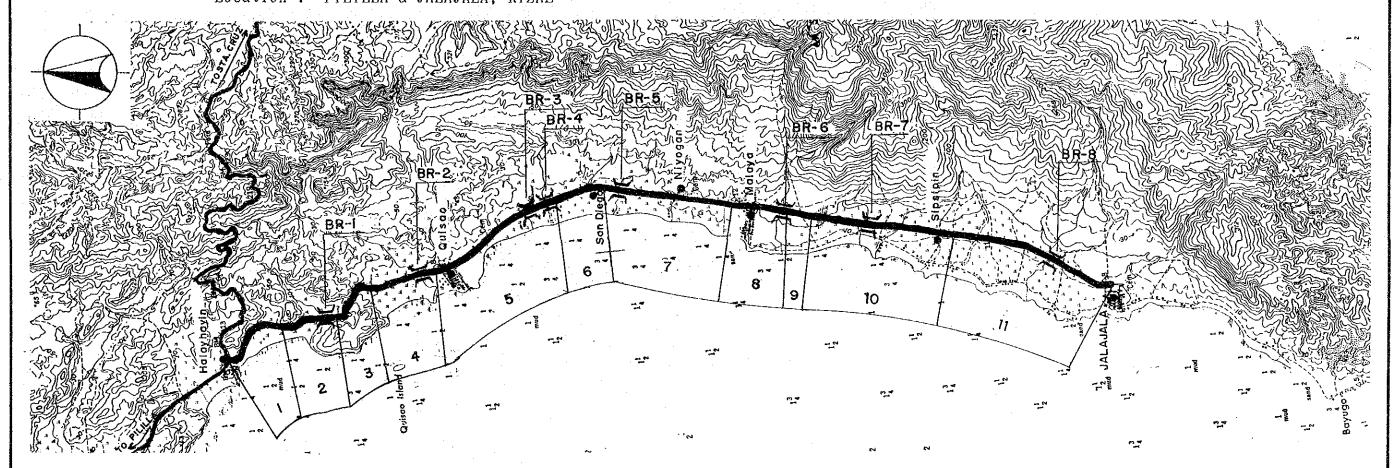
Road Classification Total Length	Seconda 6.7 km		(National	Road)		
Sub-section No.	1	2	3	4	5	6
Length (km) Terrain Existing Road Surface  Proposed Improvement Improvement Type Surface Type Carriageway Width(m) Shoulder Width (m) Ref. Typical Section		Flat 6.0-BTM		Rolling 6.0-BTM (Good)	Rolling 6.0-BTM	
Bridge No.	BR-1	BR-2			• • • • • • • • • •	
Existing Type Length (m) Proposed Type Length (m) No. of Spans	Concrete 45	Concrete 6 - -				

Drawing No. 2 O

1:50,000

Road No: N18-1

Road Name: PILILLA - JALAJALA ROAD Location: PILILLA & JALAJALA, RIZAL



Road Classification Total Length	Seconda 13.8 km		(National	Road)							
Sub-section No.	1	2	3	. 4	5	6	7	8	9	10	11
Length (km) Terrain Existing Road Surface	1.0 Flat 6.0-BTM (Fair)	.8 Flat 8.0-BTM (V.Bad)	Rolling 8.0-BTM		Flat	Flat 6.0-BTM	1.8 Flat 6.0-PCC (Good)	Flat 6.0-PCC (Good)	Flat 6.0-BTM		2.5 Flat 6.0-BTM (Fair)
Proposed Improvement Improvement Type Surface Type Carriageway Width(m) Shoulder Width (m) Ref. Typical Section	-	AC 6.0 2.0	6.0	AC 6.0 2.0	- - - - -	- - - - -	-	-	- - -	Rehabil. AC 6.0 2.0 TYPE 1-3	`- - - -
Bridge No.	BR-1	BR-2	BR-3	BR-4	BR-5	BR-6	BR-7	BR-8			
Existing Type Length (m) Proposed Type Length (m) No. of Spans	Concrete 6	Concrete 8	RCBC 5 - -	RCBC 5	RCBC 5 - -	Concrete 18	RCBC 5	Concrete 6 - -			

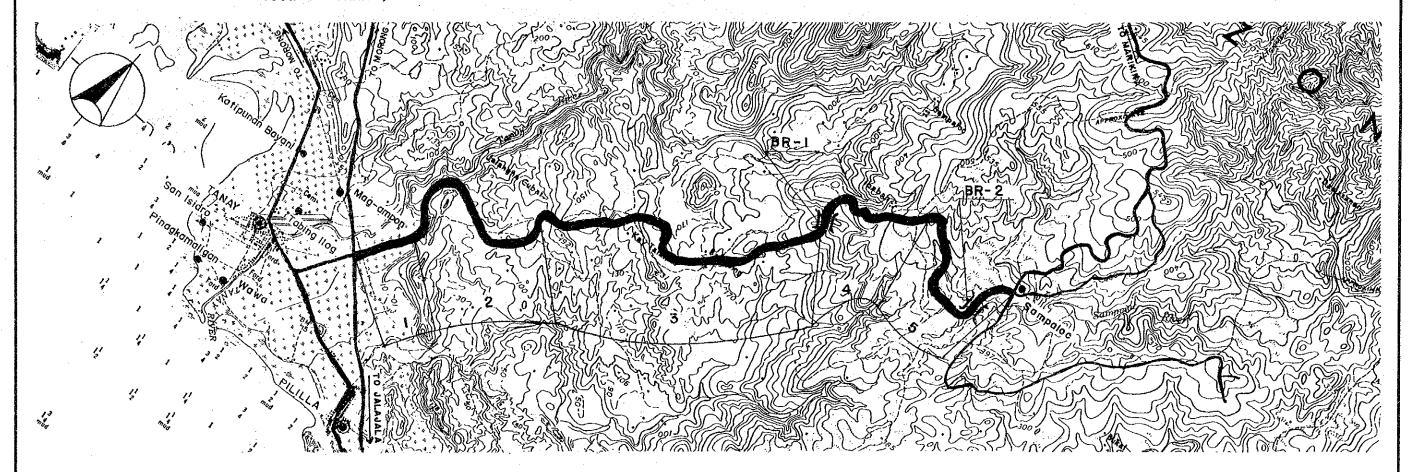
PRESENT CONDITION AND PROPOSED IMPROVEMENT

Scale

Drawing No. 1:50,000 21

Road No: N20-2

Road Name: TANAY - SAMPALOC ROAD Location: TANAY, RIZAL



Road Classification Total Length	Seconda 13.8 km		(National	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 6.0-BTM (Bad) Rehabil. Overlay 6.0 2.0	Rolling 6.0-BTM (V.Bad) Rehabil. AC 6.0 1.5	Rolling 6.0-BTM (Bad) Rehabil. Overlay 6.0 1.5	2.4 Mt'nous 6.0-BTM (Bad) Rehabil. Overlay 6.0 1.0 TYPE 1-4	Mt'nous 6.0-BTM (V.Bad) Rehabil. AC 6.0 1.0
Bridge No.	BR-1	BR-2			
Existing Type Length (m) Proposed Type Length (m) No. of Spans	Concrete 10				* *** *** *** *** *** *** *** *** ***

PRESENT CONDITION AND PROPOSED IMPROVEMENT

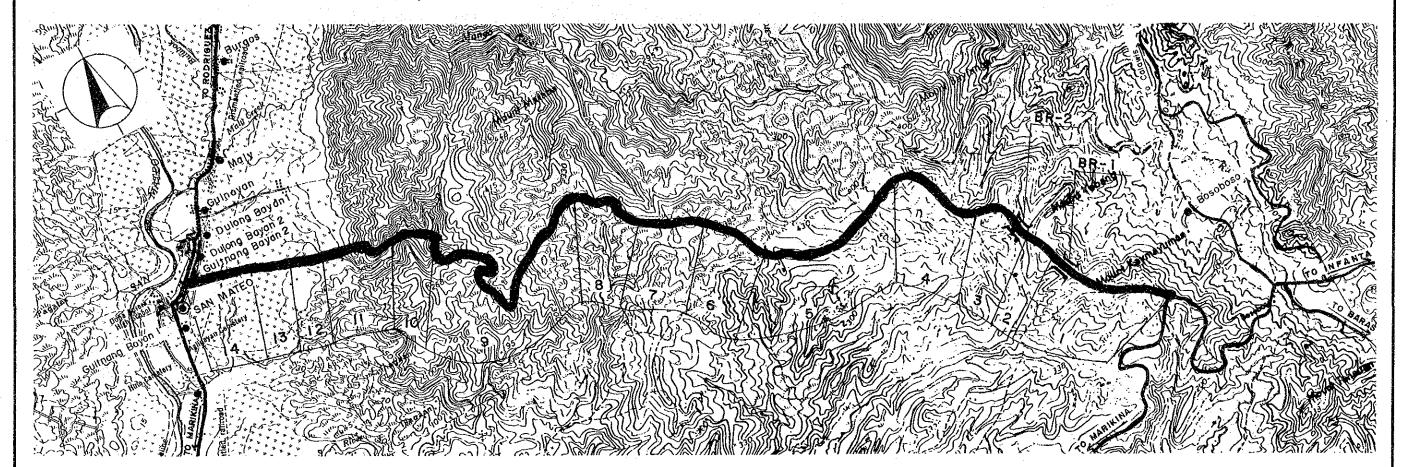
Scale

Drawing No.

1:50,000 22

Road No: N23-1

Road Name: ANTIPOLO - SAN MATEO ROAD Location: SAN MATEO, RIZAL



Road Classification Total Length	Secondar 19.1 km	y Major (	National	Road)										
Sub-section No.	1	2	3	4	5	6	.7	8	9	10	11	12	13	14
Length (km) Terrain Existing Road Surface  Proposed Improvement Improvement Type Surface Type Carriageway Width(m) Shoulder Width (m) Ref. Typical Section	1.8 Mt'nous 6.0-BTM (Good)	.6 Mt'nous 6.0-BTM (Good)	6.0-BTM	1.7 Mt'nous 6.0-BTM (Good)		1.0 Mt'nous 4.5-EAR (Bad) Impr1 AC 6.0 1.0 TYPE 2-6	Mt'nous 4.5-EAR (Bad)  Impr1 AC 6.0 1.0	Mt'nous 4.5-GRV (V.Bad) Impr1 AC 6.0 1.0	4.5-GRV (V.Bad) Impr1 AC 6.0 1.0	Mt'nous 4.5-GRV (V.Bad) Impr1 AC 6.0 1.0	Impr1 AC 6.0 1.5	6.0-GRV (Bad) Impr1 AC 6.0 2.0	Flat 6.0-GRV (Bad) Impr1 AC 6.0 2.0	1.1 Flat 6.0-PCC (Good)
Bridge No.	BR-1	BR-2												
Existing Type Length (m) Proposed Type Length (m) No. of Spans	Concrete 18 - -	Concrete 30 - -	· .											

PRESENT CONDITION AND PROPOSED IMPROVEMENT

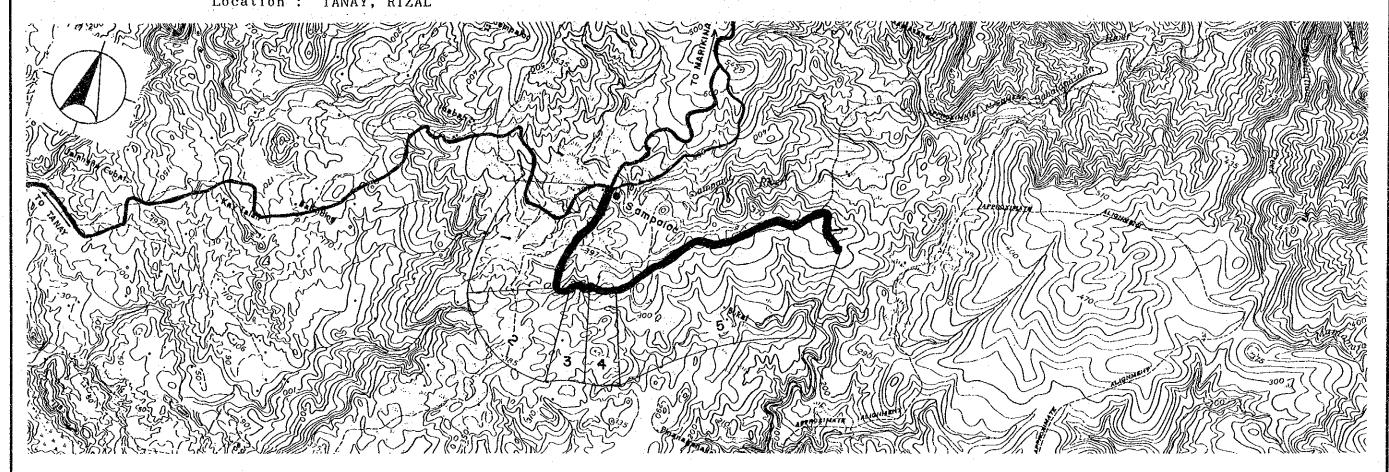
Scale

Drawing No. 2 3

1:50,000

Road No: N1-5

Road Name: MARCOS HIGHWAY Location: TANAY, RIZAL



Road Classification Total Length	Minor Road (National Road) 5.9 km								
Sub-section No.	1	2	3	4	5				
Length (km) Terrain Existing Road Surface Proposed Improvement	1.7 Mt'nous 6.0-PCC (Good)	Mt'nous 3.0-PCC	Mt'nous 6.0-GRV	Mt'nous	6.0-GRV				
Improvement Type Surface Type Carriageway Width(m) Shoulder Width (m) Ref. Typical Section	-	PCC 6.0 1.0	PCC 6.0 1.0		Gravel 6.0 .5				

PRESENT CONDITION AND PROPOSED IMPROVEMENT

Scale

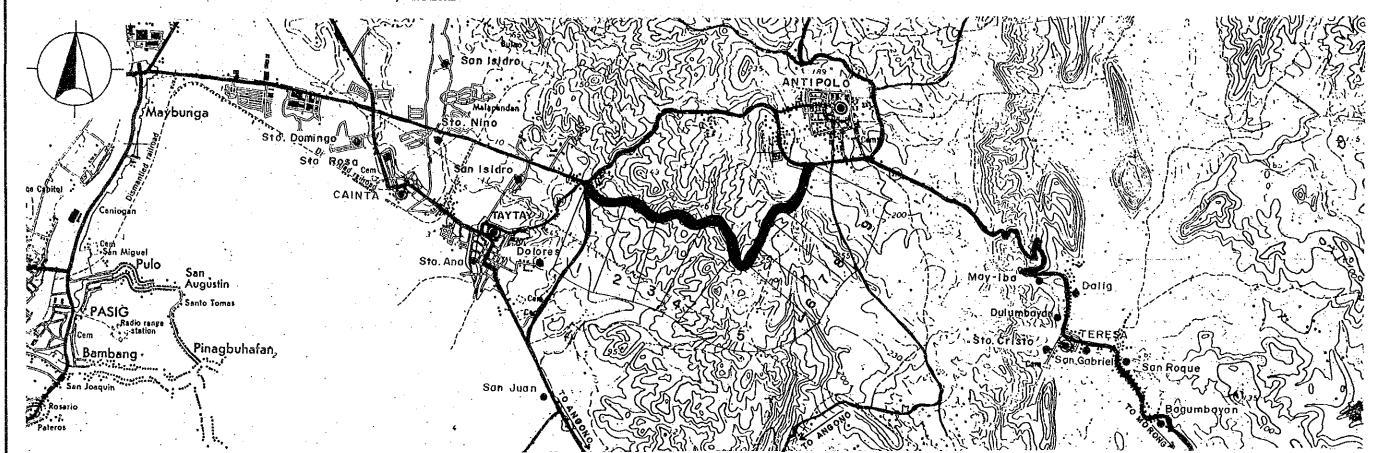
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Drawing No.

Road No: N3-1

Road Name: CABRERA - KAYTICKLING ROAD Location: ANTIPOLO, RIZAL



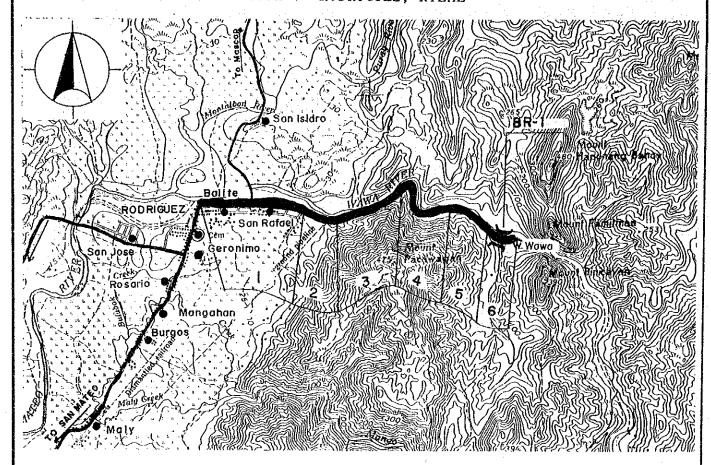
Road Classification Total Length	Minor Ro 5.0 km	oad (Natio	onal Road	)					
Sub-section No.	. 1	2	3	4	5	6	7	8	9
Length (km) Terrain Existing Road Surface	.8 Rolling 6.0-BTM (Bad)		Rolling	Rolling 5.0-BTM	Rolling 5.0-BTM			Rolling 6.0-BTM	Rolling 6.0-BTM
Proposed Improvement Improvement Type Surface Type Carriageway Width(m) Shoulder Width (m) Ref. Typical Section	Overlay 6.0 1.0	Overlay 5.0 1.0	Overlay 5.0 1.0	Overlay 5.0 1.0	1.0	- - - -	- - - - -	Overlay 6.0 1.0	

Drawing No.

1:50,000 25

Road No: N4-3

Road Name: MARIKINA - RODRIGUEZ - WAWA ROAD Location: RODRIGUEZ, RIZAL



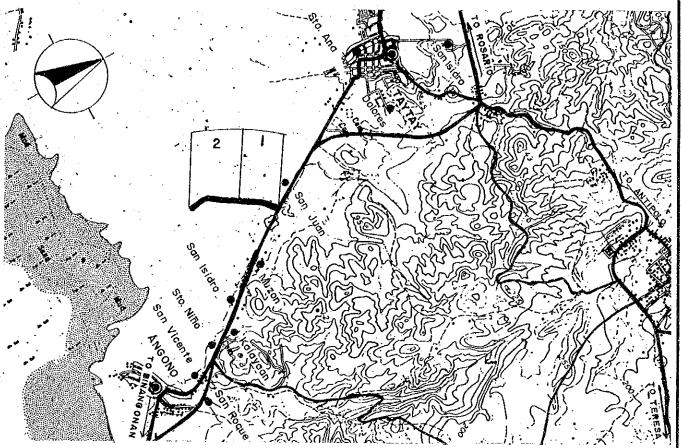
Road Classification Total Length	Minor Re 5.2 km		onal Road	)		
Sub-section No.	1	2	3	.4	5	6
Length (km) Terrain Existing Road Surface Proposed Improvement Improvement Type Surface Type Carriageway Width (m)  Shoulder Width Section	(Fair) - - -	Rolling 4.5-GRV (Bad) Impr1 * BMP 6.0	Rolling 4.5-GRV (V.Bad) Impr1 * BMP 6.0	Rolling 4.5-GRV (Bad) Impr1 * BMP 6.0	Rolling 4.5-GRV (Bad) Impr1 * BMP 6.0	Rolling 4.5-GRV (Bad) Impr1 * BMP
Bridge No.	BR-1					
Length (m)	Ford-Cr. 2Lane-Br 10			· · · · · · · · · · · · · · · · · · ·	at the fact of the gar and and and and	

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

Road No: P2-1

Road Name: TAYTAY - BANGIAD ROAD

Location: TAYTAY, RIZAL



Road Classification Total Length	Minor Road (Provincial Road) 1.2 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 Special Treatment Flood Section Length Height	.5 .7 Flat Flat 6.0-PCC 4.5-GRV (Good) (Bad)  - Rehabil, - Gravel - 6.0 - 1.0 - TYPE 1-6 - 500 - 1.5

PRESENT CONDITION AND PROPOSED IMPROVEMENT

Scale

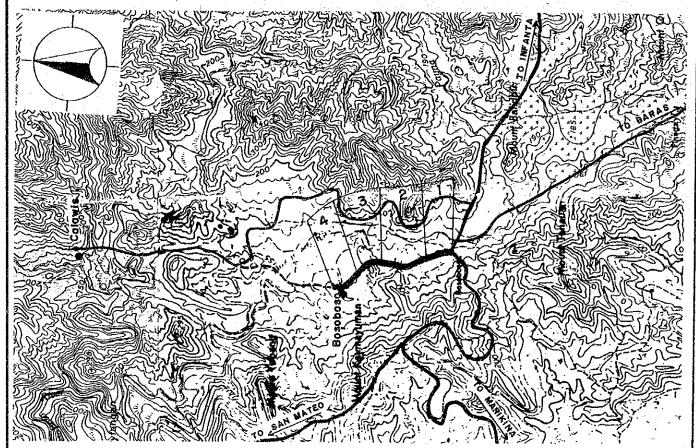
Drawing No.

26

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Road No: P3-1

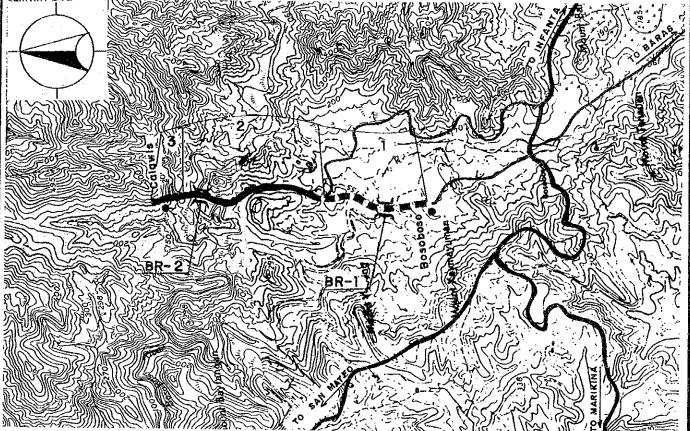
Road Name: MARCOS HIGHWAY - BOSOBOSO ROAD Location: ANTIPOLO, RIZAL



Road Classification Total Length	Minor Road (Provincial Road) 1.9 km							
Sub-section No.	1	2	3	. 4				
Length (km) Terrain Existing Road Surface Proposed Improvement		Rolling	Rolling 6.0-GRV	Flat 6.0-GRV				
Improvement Type Surface Type Carriageway Width(m) Shoulder Width (m) Ref. Typical Section	Gravel 6.0 .5	Gravel 6.0	. 5					

Road No: P3-2

Road Name: BOSOBOSO - CALAWIS ROAD Location: ANTIPOLO, RIZAL

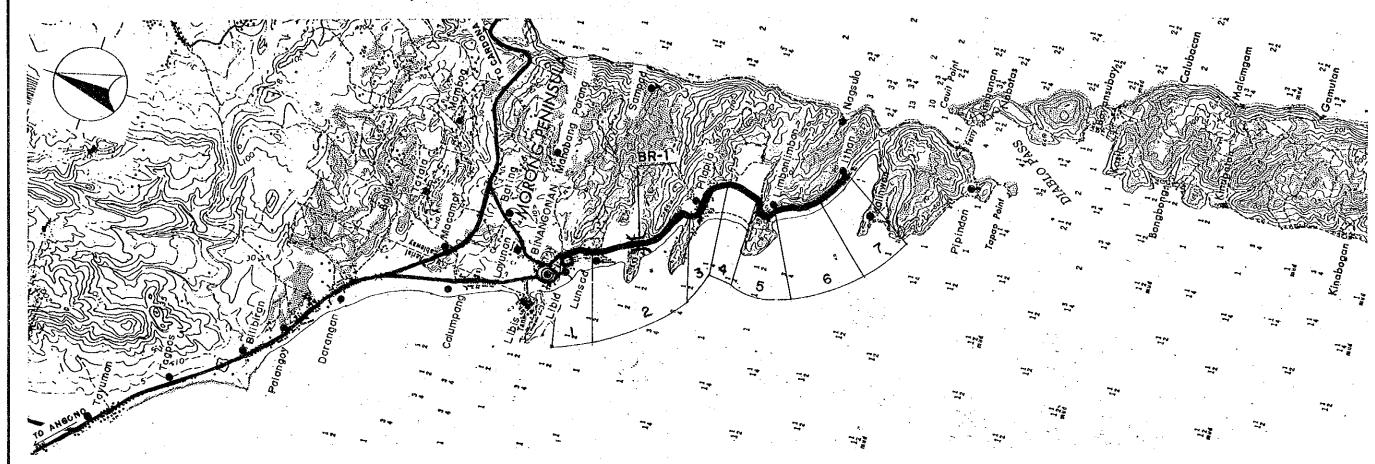


Road Classification Total Length	Minor Road(Provincial Road) 4.0 km
Sub-section No.	1 2 3
Length (km) Terrain Existing Road Surface Proposed Improvement Improvement Type Surface Type Carriageway Width(m) Shoulder Width (m) Ref. Typical Section	1.5 2.0 .5 Flat Mt'nous Mt'nous Non Ex. 4.5-GRV 4.5-GRV isting (Bad) (Bad)  New Con. Rehabil. Rehabil. Gravel Gravel Gravel 6.0 6.0 6.0 1.0 .5 .5 TYPE 5-4 TYPE 1-6
Bridge No.	BR-1 BR-2
Existing Type Length (m) Proposed Type Length (m) No. of Spans	Ford-Cr. Ford-Cr.  2Lane-Sp 2Lane-Sp 30 -

Drawing No. 1:50,000 27

Road No: P5-1

Road Name: BINANGONAN - PILAPILA ROAD Location: BINANGONAN, RIZAL



Road Classification Total Length	Minor R 4.5 km	oad (Provi	ncial Ro	ad)			
Sub-section No.	1	2	3	4	5	6	7
Length (km) Terrain Existing Road Surface Proposed Improvement Improvement Type Surface Type Carriageway Width(m) Shoulder Width (m) Ref. Typical Section	- -	Flat 6.0-BTM	Rolling 5.0-BTM (Good) - - -	Flat 5.0-BTM (Bad) Rehabil. Overlay 5.0 1.5		Rolling 5.0-BTM (Good)	Rolling 4.5-GRV
Bridge No.	BR-1						<del></del>
Existing Type Length (m) Proposed Type Length (m) No. of Spans	Steel 6 2Lane-Br 6 1						* ** ** ** ** ** ** ** ** ** **

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

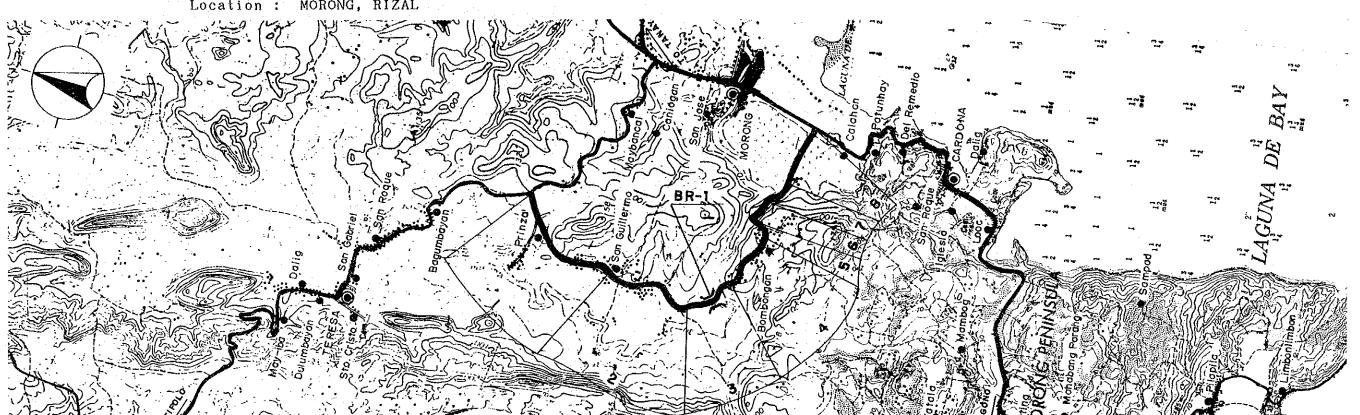
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28

Drawing No.

Road No: P18-1

Road Name: MORONG - BOMBONGAN ROAD Location: MORONG, RIZAL



Road Classification Total Length	Minor Ro 7.0 km	ad (Provi	ncial Ro	ad)				
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	Rolling 6.0-BTM (Bad) Rehabil. Overlay 6.0 1.0	Rolling 6.0-BTM (Fair)	Flat 6.0-BTM (Good) - - -	1.0 Rolling 5.0-BTM (V.Bad) Rehabil. * BMP 6.0 1.0 TYPE 1-5	Rolling 5.0-PCC (Good)	Mt'nous 5.0-BTM (V.Bad) Rehabil. * BMP 6.0	Rolling 5.0-BTM (V.Bad) Rehabil. * BMP 6.0 1.0	Flat 5.0-BTM (Bad) Rehabil. Overlay 5.0 1.5
Bridge No.	BR-1							
Existing Type Length (m) Proposed Type Length (m) No. of Spans	Concrete 40 - - -							

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