REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF PUBLIC WORKS & HIGHWAYS

Feasibility Study
on
The Rural Road Network Development Project

FINAL REPORT (Volume 21)

DRAWINGS FOR ROAD PROJECTS
IN
THE PROVINCE OF ANTIQUE

OCTOBER, 1990

JAPAN INTERNATIONAL COOPERATION AGENCY

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THE FEASIBILITY STUDY ON THE RURAL ROAD NETWORK DEVELOPMENT PROJECT IN THE REPUBLIC OF THE PHILIPPINES	CONTENTS	Scale	Drawing No.

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	N10	25		P17	36			

THE FEASIBILITY STUDY ON THE RURAL ROAD NETWORK DEVELOPMENT PROJECT IN THE REPUBLIC OF THE PHILIPPINES

SIBUYAN SEA

0 5 10 15 20
KILOMETER

Libertad
N12-2
N12-1
N1-17
N1-16
P4-1
Pandan
P4-2
To Roxas City
N1-14
Sebaste
N1-13
PROVINCE OF AKLAN
Culasi
B16-3
N1-12
Tibiao
P9
N1-11
P10
P11
Barbaza
N1-10
B09-3
Lawa-an
B09-1
N1-9
P13
B04-1
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Bugasong
B17-1
N10
Valderrama
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P16
P17
Patnongon
B13-1
N9-3
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Bellson
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San Remegio
N7-3
P21
P23
N7-1
N7-2
N9-1
Sibalom
SAN JOSE DE BUENAVISTA
N8
N3
Hamtic
B08-3
PROVINCE OF ILOILO
PROVINCE OF CAPIZ
To Iloilo City
N2-4
P32
Dao
P30
P36
P31
P33
N2-3
N2-1
P34
Anini-y
N2-2

Legend:

- Primary Major Roads for F/S
- Secondar Major Roads for F/S
- Minor Roads for F/S
- Primary Major Roads in Good Condition
- Impassable / Non Existing Section
- Provincial Capital
- Municipality

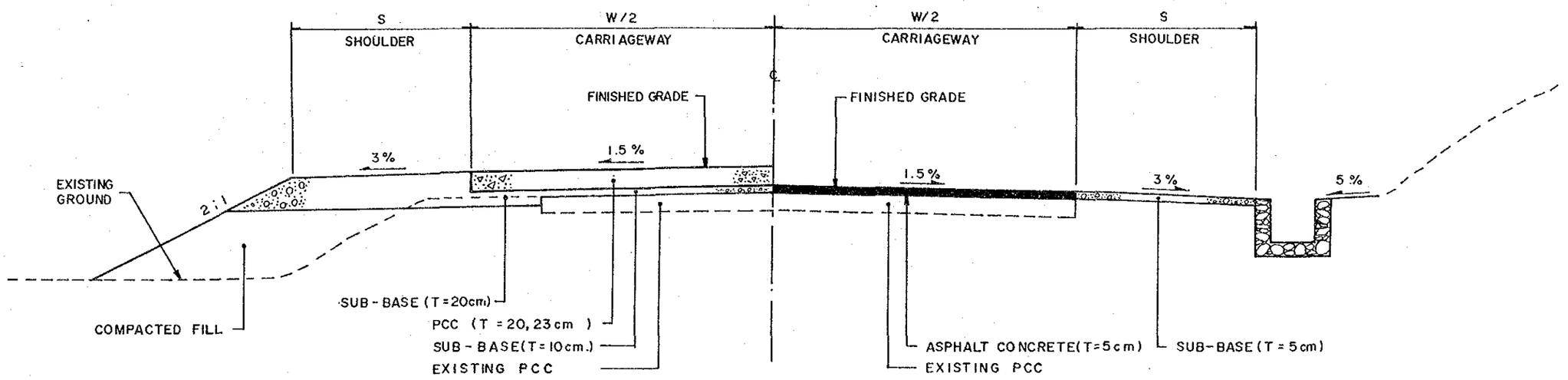
LOCATION OF F/S ROADS

LOCATION MAP

Scale

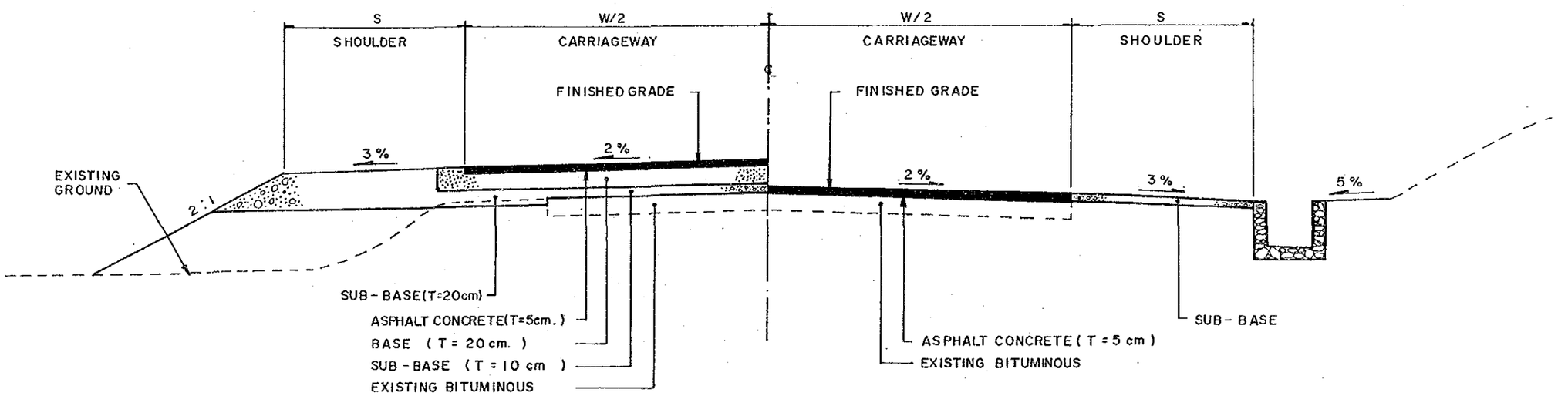
Drawing No. 1

THE FEASIBILITY STUDY ON THE RURAL ROAD NETWORK DEVELOPMENT PROJECT IN THE REPUBLIC OF THE PHILIPPINES	TYPICAL ROAD SECTIONS (1)	Scale 1:50	Drawing No. 2



TYPE 1-1
PROPOSED PAVEMENT : PCC
EXISTING PAVEMENT : PCC (BAD / VERY BAD)

TYPE 1-2
PROPOSED PAVEMENT : ASPHALT CONCRETE OVERLAY
EXISTING PAVEMENT : PCC (BAD / VERY BAD)

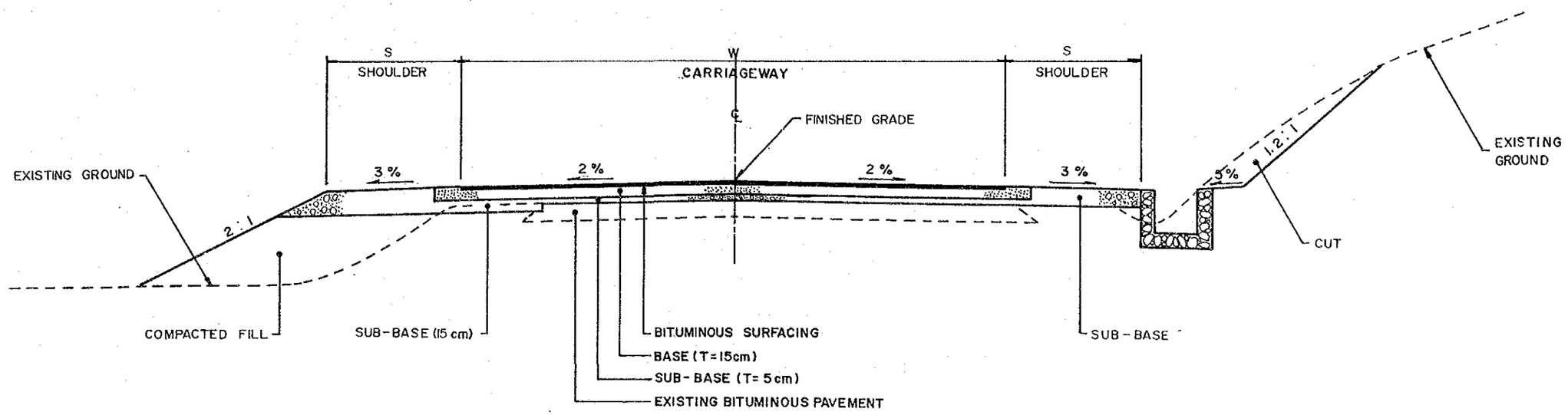


TYPE 1-3
PROPOSED PAVEMENT : ASPHALT CONCRETE
EXISTING PAVEMENT : BITUMINOUS (BAD / VERY BAD)

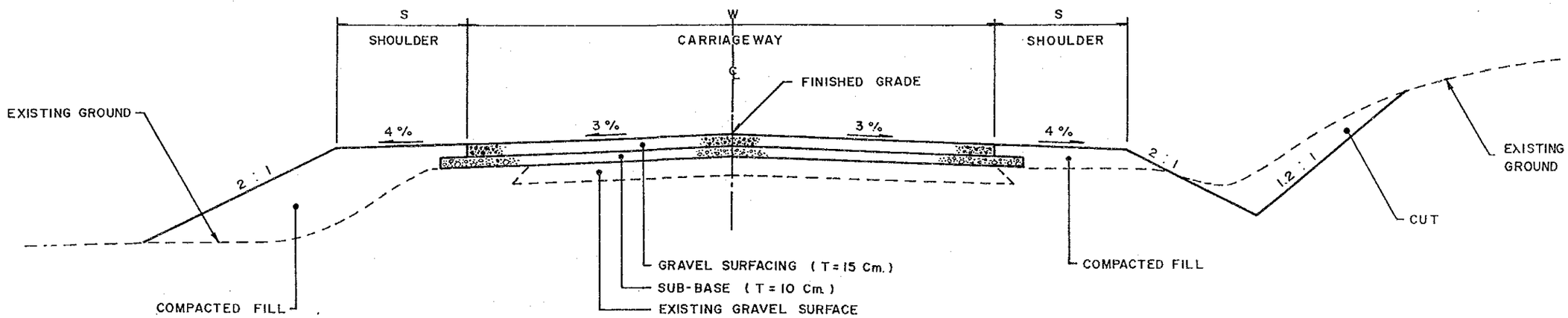
TYPE 1-4
PROPOSED PAVEMENT : ASPHALT CONCRETE OVERLAY
EXISTING PAVEMENT : BITUMINOUS (BAD / VERY BAD)

REHABILITATION (1)

THE FEASIBILITY STUDY ON THE RURAL ROAD NETWORK DEVELOPMENT PROJECT IN THE REPUBLIC OF THE PHILIPPINES	TYPICAL ROAD SECTIONS (2)	Scale 1:50	Drawing No. 3



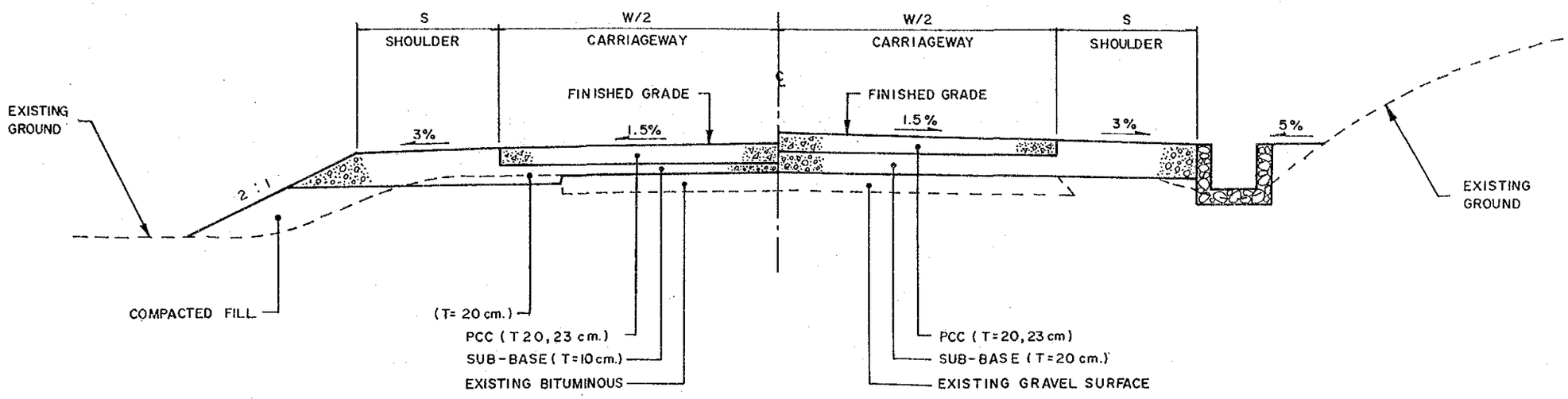
TYPE I-5
PROPOSED PAVEMENT : BITUMINOUS MACADAM/DOUBLE BITUMINOUS SURFACE TREATMENT
EXISTING PAVEMENT : BITUMINOUS (BAD/VERY BAD)



TYPE I-6
PROPOSED PAVEMENT : GRAVEL SURFACING
EXISTING PAVEMENT : GRAVEL SURFACING (BAD/VERY BAD)

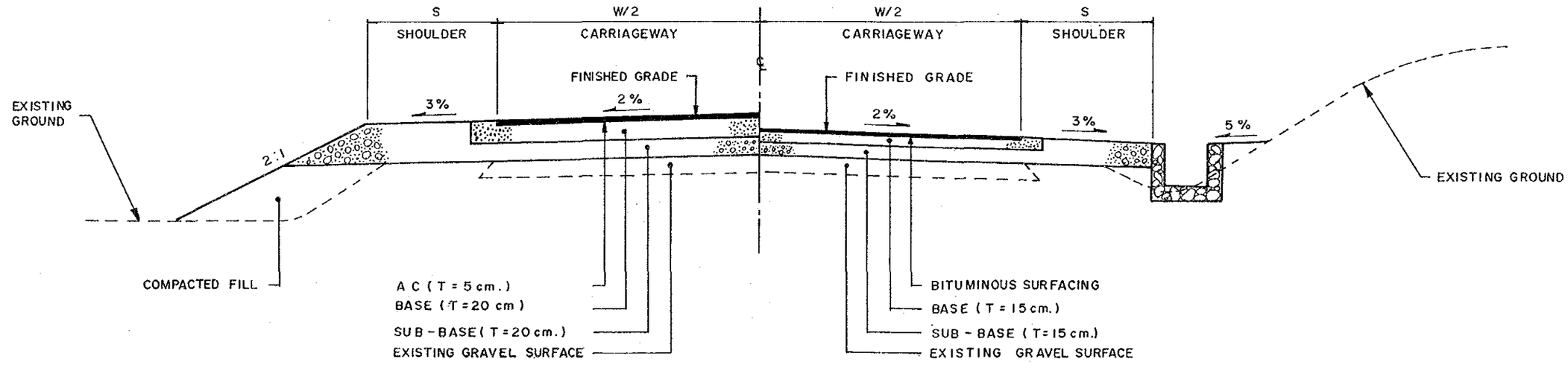
REHABILITATION (2)

THE FEASIBILITY STUDY ON THE RURAL ROAD NETWORK DEVELOPMENT PROJECT IN THE REPUBLIC OF THE PHILIPPINES	TYPICAL ROAD SECTIONS (3)	Scale 1:50	Drawing No. 4



TYPE 2-1
PROPOSED PAVEMENT : PCC
EXISTING PAVEMENT : BITUMINOUS (BAD/VERY BAD)

TYPE 2-2
PROPOSED PAVEMENT : PCC
EXISTING PAVEMENT : GRAVEL SURFACING (BAD/ VERY BAD)

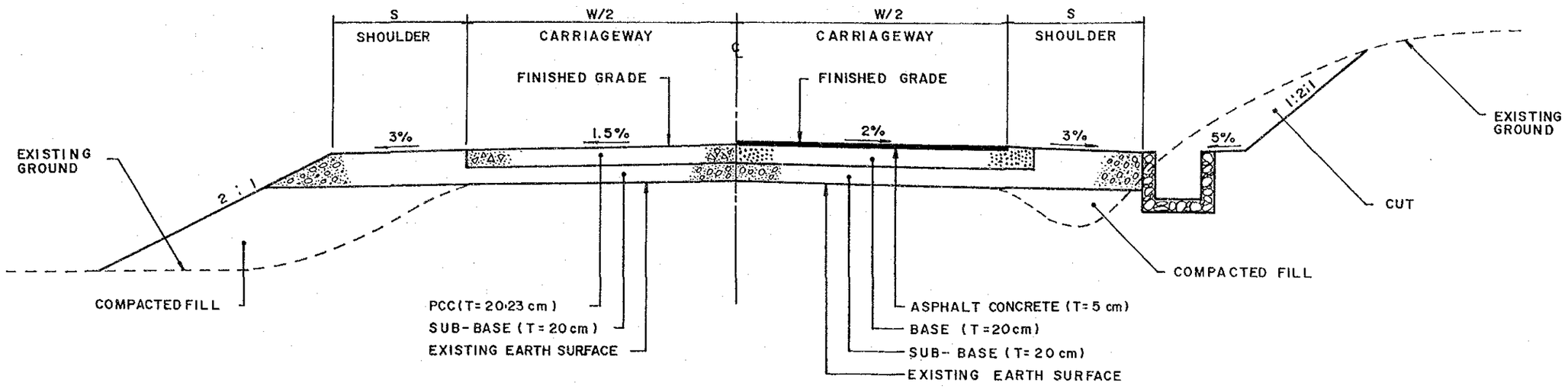


TYPE 2-3
PROPOSED PAVEMENT : ASPHALT CONCRETE
EXISTING PAVEMENT : GRAVEL SURFACING (BAD / VERY BAD)

TYPE 2-4
PROPOSED PAVEMENT : BITUMINOUS MACADAM / DOUBLE BITUMINOUS SURFACE TREATMENT
EXISTING PAVEMENT : GRAVEL SURFACING (BAD / VERY BAD)

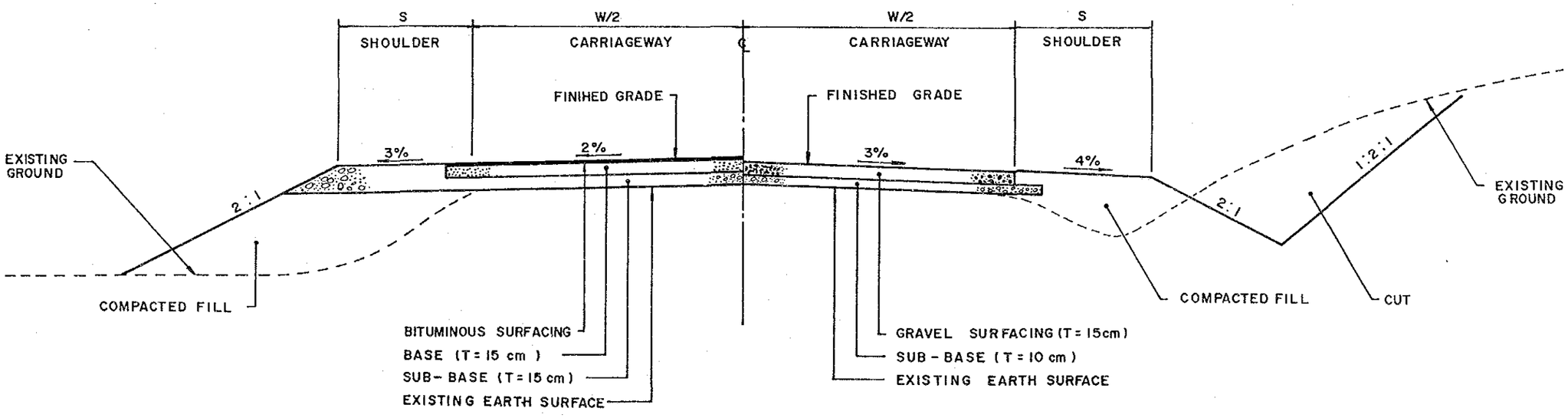
IMPROVEMENT - I (I)

THE FEASIBILITY STUDY ON THE RURAL ROAD NETWORK DEVELOPMENT PROJECT IN THE REPUBLIC OF THE PHILIPPINES	TYPICAL ROAD SECTIONS (4)	Scale 1:50	Drawing No. 5



TYPE 2-5
PROPOSED PAVEMENT : PCC
EXISTING PAVEMENT : EARTH SURFACE

TYPE 2-6
PROPOSED PAVEMENT : ASPHALT CONCRETE
EXISTING PAVEMENT : EARTH SURFACE

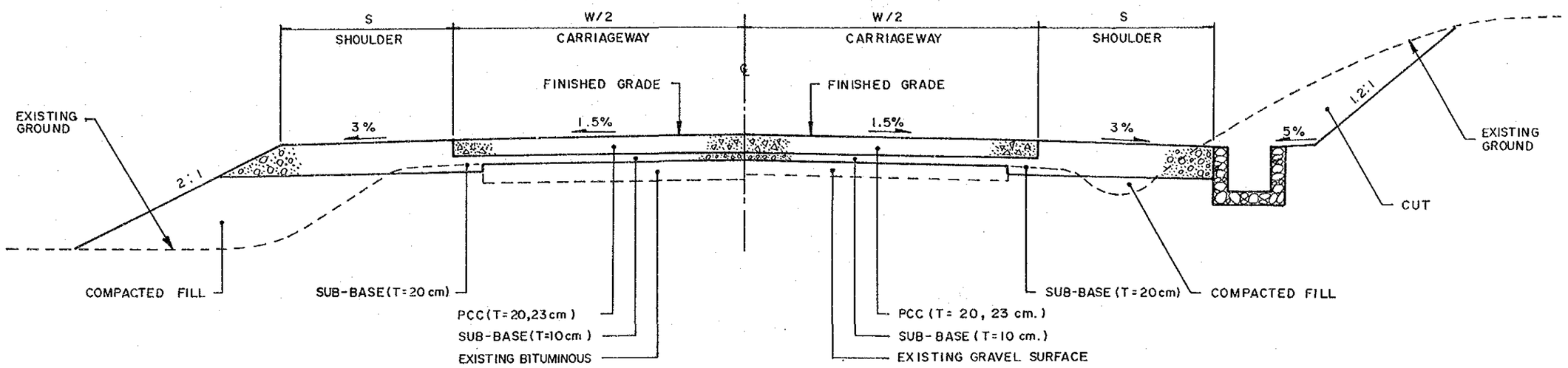


TYPE 2-7
PROPOSED PAVEMENT : BITUMINOUS MACADAM / DOUBLE BITUMINOUS SURFACE TREATMENT
EXISTING PAVEMENT : EARTH SURFACE

TYPE 2-8
PROPOSED PAVEMENT : GRAVEL SURFACING
EXISTING PAVEMENT : EARTH SURFACING

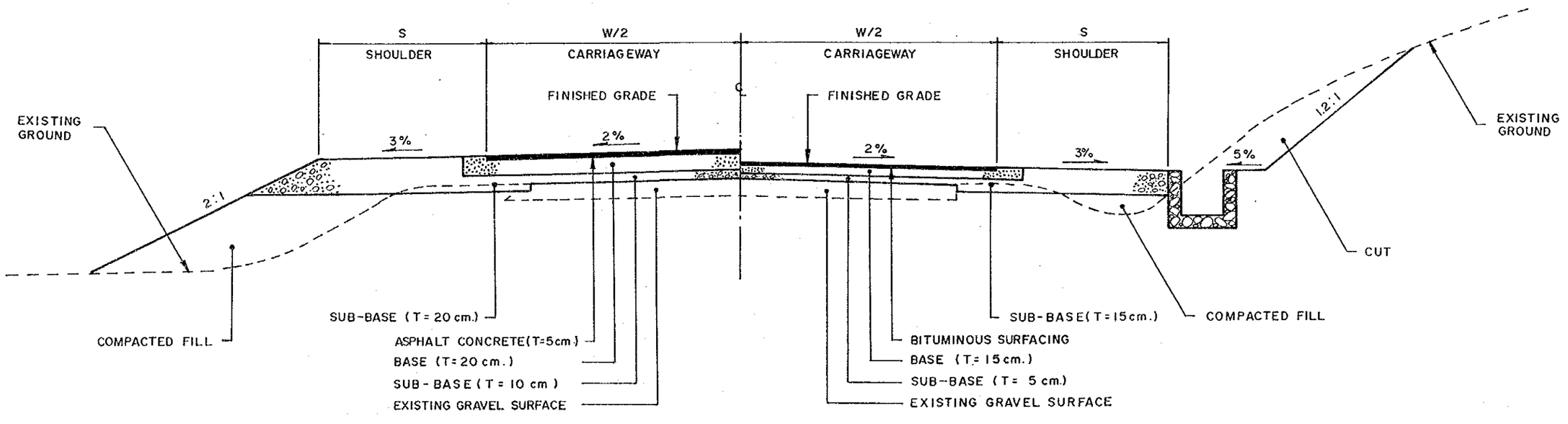
IMPROVEMENT - 1 (2)

THE FEASIBILITY STUDY ON THE RURAL ROAD NETWORK DEVELOPMENT PROJECT IN THE REPUBLIC OF THE PHILIPPINES	TYPICAL ROAD SECTIONS (5)	Scale 1:50	Drawing No. 8



TYPE 3-1
PROPOSED PAVEMENT : PCC
EXISTING PAVEMENT : BITUMINOUS (Good/Fair)

TYPE 3-2
PROPOSED PAVEMENT : PCC
EXISTING PAVEMENT : GRAVEL SURFACING (Good/Fair)

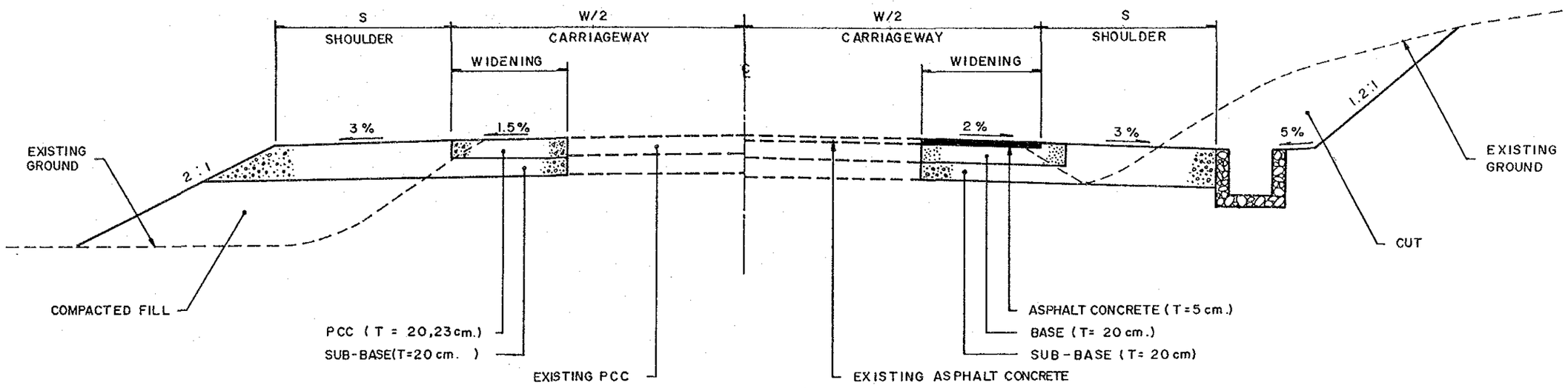


TYPE 3-3
PROPOSED PAVEMENT : ASPHALT CONCRETE
EXISTING PAVEMENT : GRAVEL SURFACING (Good/Fair)

TYPE 3-4
PROPOSED PAVEMENT : BITUMINOUS MACADAM/DOUBLE BITUMINOUS SURFACE TREATMENT
EXISTING PAVEMENT : GRAVEL SURFACING (Good/Fair)

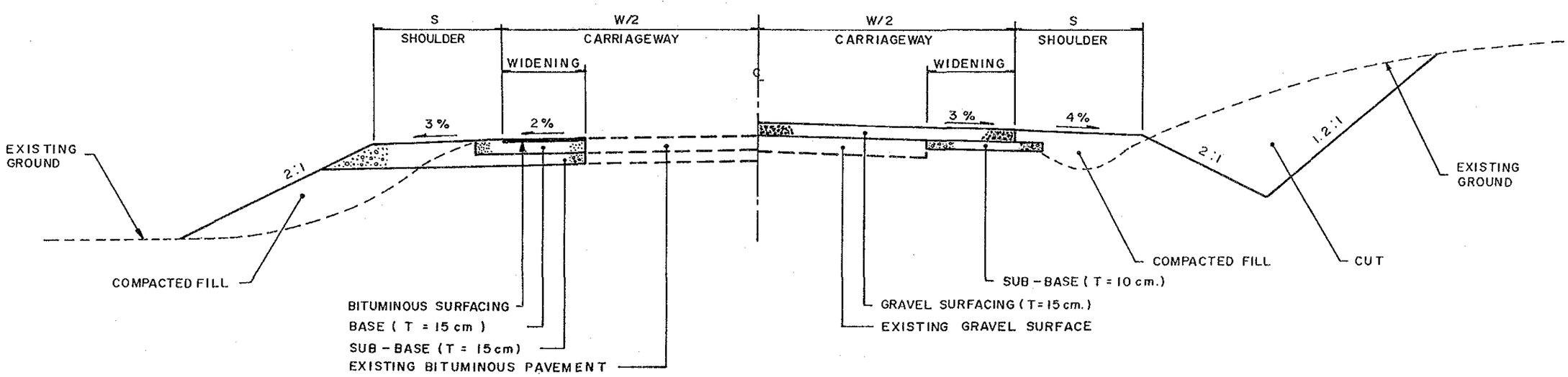
IMPROVEMENT-2

THE FEASIBILITY STUDY ON THE RURAL ROAD NETWORK DEVELOPMENT PROJECT IN THE REPUBLIC OF THE PHILIPPINES	TYPICAL ROAD SECTIONS (6)	Scale 1:50	Drawing No. 7



TYPE 4 - 1
PROPOSED PAVEMENT : PCC
EXISTING PAVEMENT : PCC

TYPE 4 - 2
PROPOSED PAVEMENT : ASPHALT CONCRETE
EXISTING PAVEMENT : ASPHALT CONCRETE

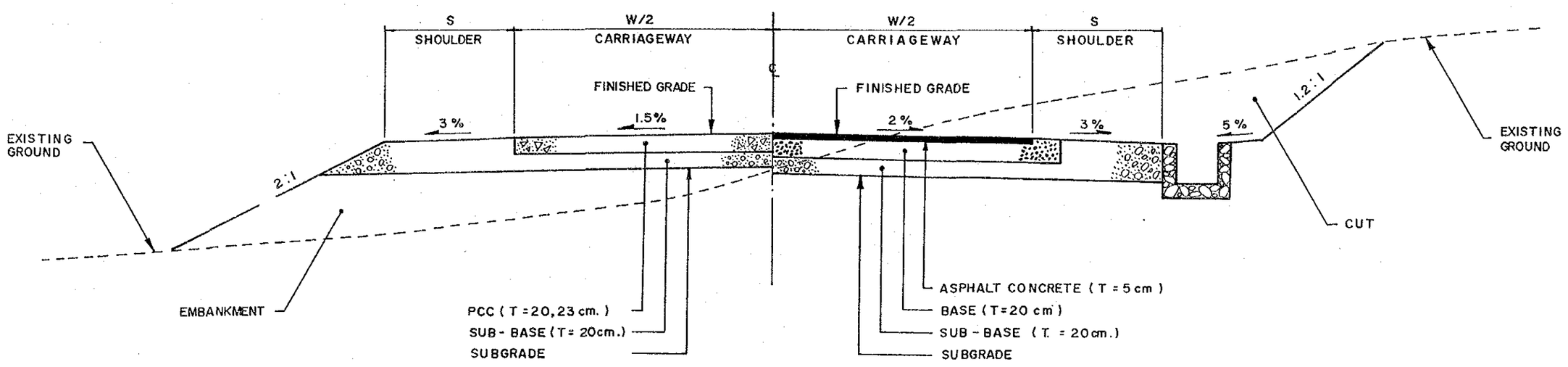


TYPE 4 - 3
PROPOSED PAVEMENT : BITUMINOUS MACADAM/ DOUBLE BITUMINOUS SURFACE TREATMENT
EXISTING PAVEMENT : BITUMINOUS

TYPE 4 - 4
PROPOSED PAVEMENT : GRAVEL SURFACING
EXISTING PAVEMENT : GRAVEL SURFACING

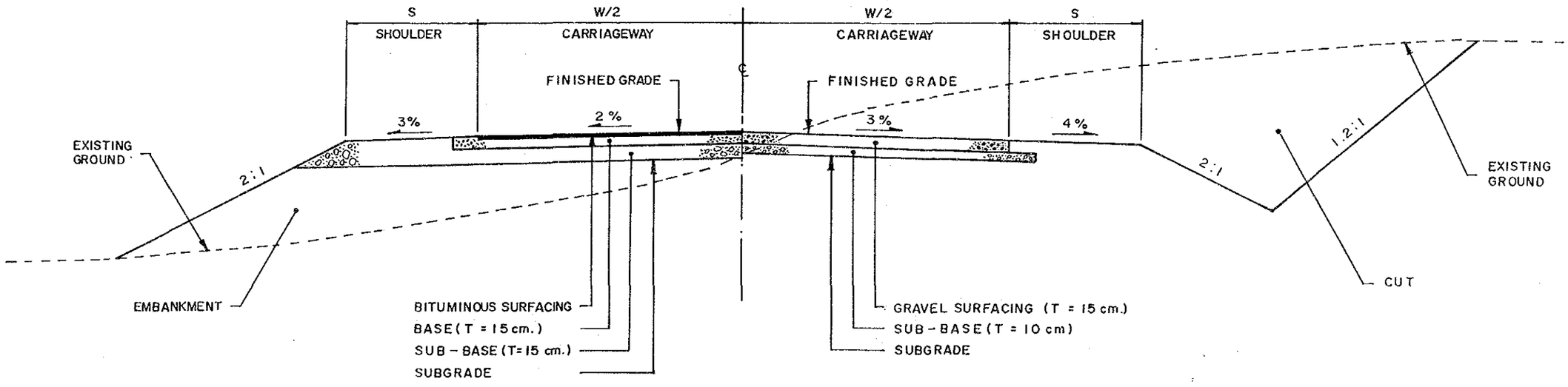
WIDENING

THE FEASIBILITY STUDY ON THE RURAL ROAD NETWORK DEVELOPMENT PROJECT IN THE REPUBLIC OF THE PHILIPPINES	TYPICAL ROAD SECTIONS (7)	Scale 1:50	Drawing No. 8



TYPE 5 - 1
PROPOSED PAVEMENT : PCC

TYPE 5 - 2
PROPOSED PAVEMENT : ASPHALT CONCRETE

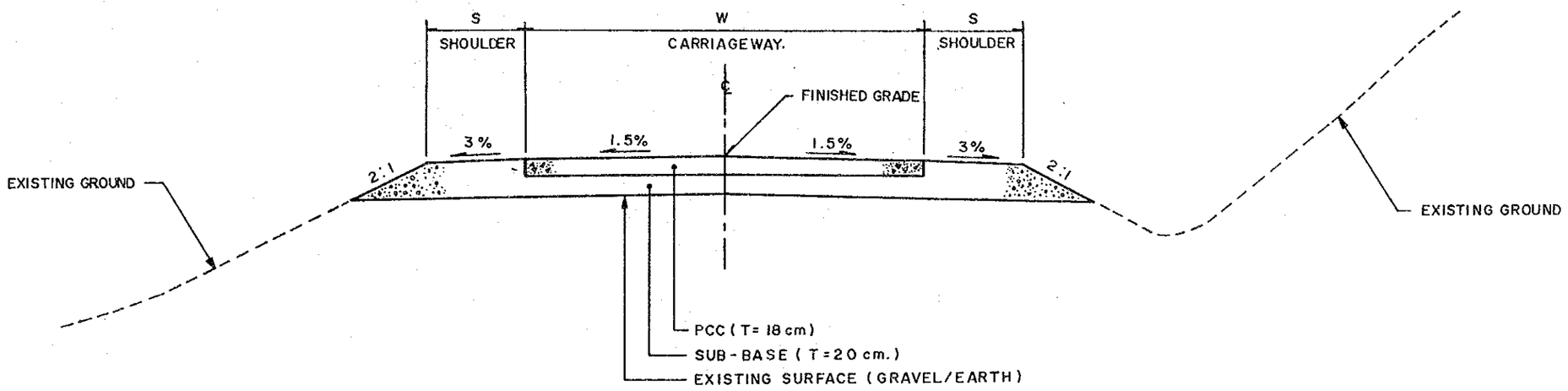


TYPE 5-3
PROPOSED PAVEMENT : BITUMINOUS MACADAM / DOUBLE BITUMINOUS SURFACE TREATMENT

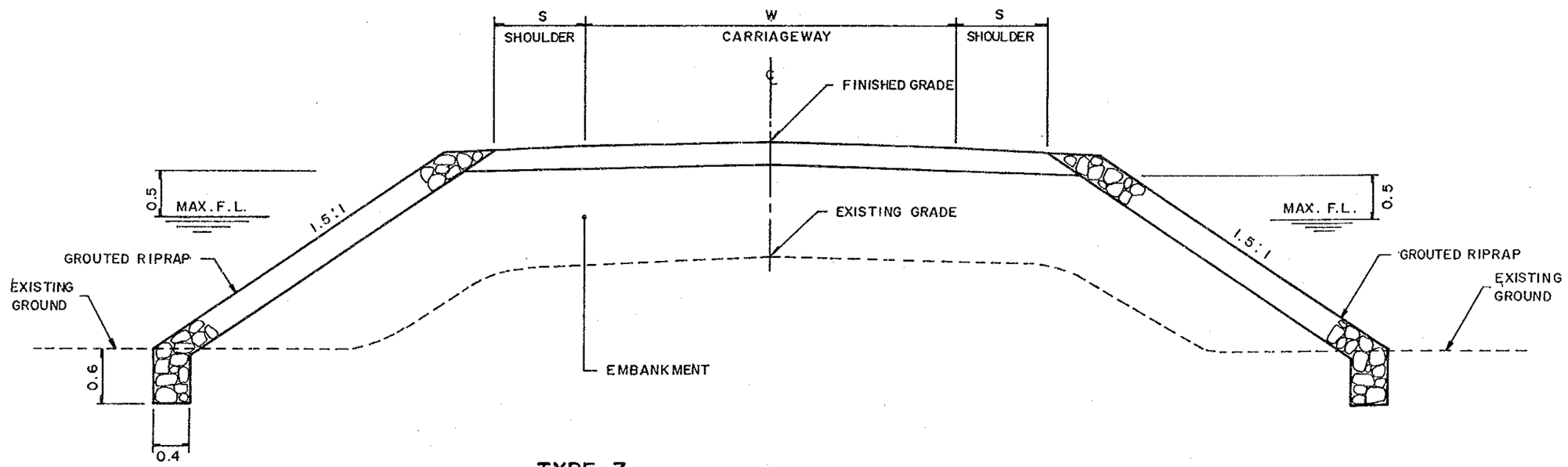
TYPE 5-4
PROPOSED PAVEMENT : GRAVEL SURFACING

NEW CONSTRUCTION

THE FEASIBILITY STUDY ON THE RURAL ROAD NETWORK DEVELOPMENT PROJECT IN THE REPUBLIC OF THE PHILIPPINES	TYPICAL ROAD SECTIONS (8)	Scale 1:50	Drawing No. 8



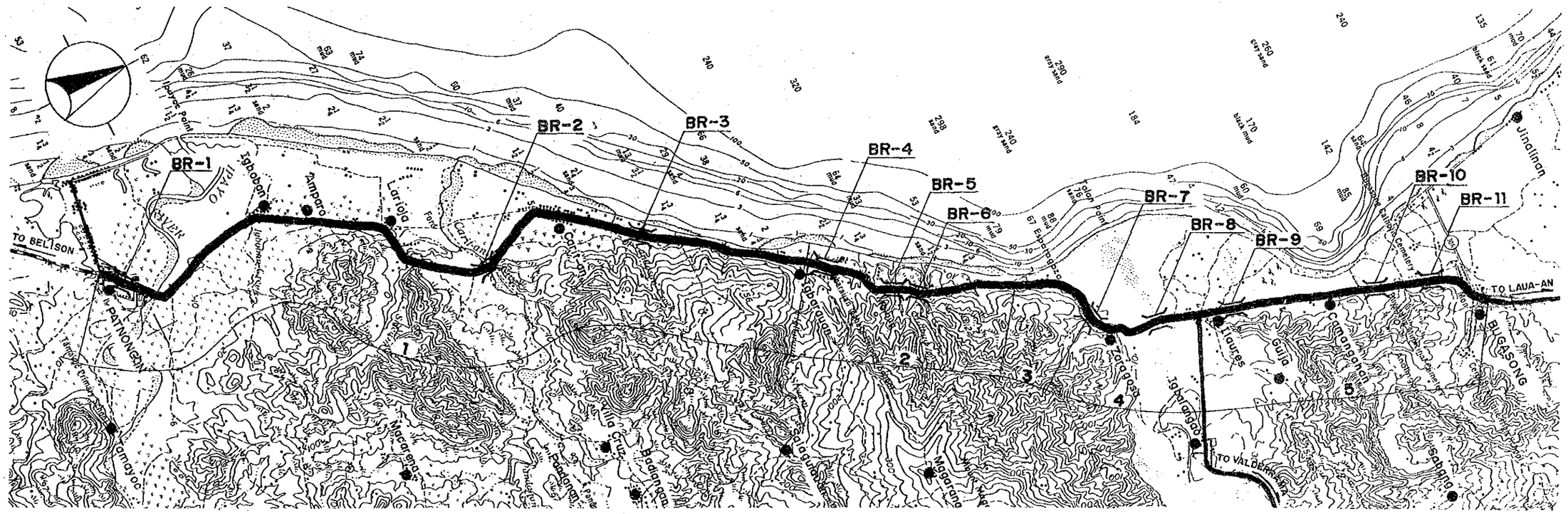
TYPE 6
PCC PAVEMENT FOR STEEP GRADIENT SECTIONS



TYPE 7
GRADE RAISING SECTIONS IN FLOOD AREA

THE FEASIBILITY STUDY ON THE RURAL ROAD NETWORK DEVELOPMENT PROJECT IN THE REPUBLIC OF THE PHILIPPINES	PRESENT CONDITION AND PROPOSED IMPROVEMENT	Scale 1:50,000	Drawing No. 10

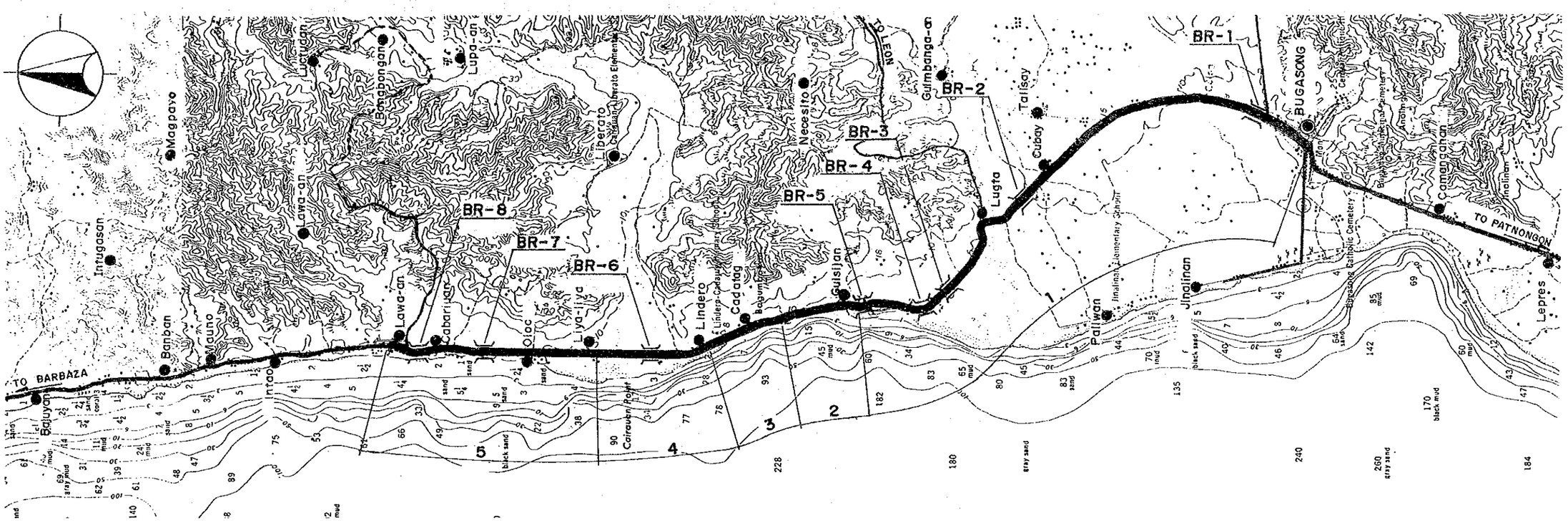
Road No: N1-8 Road Name: PATNONGON-BUGASONG ROAD
Location : PATNONGON & BUGASONG, ANTIQUE



Road Classification Total Length	Primary Major (National Road) 18.7 km										
Sub-section No.	1	2	3	4	5						
Length (km)	8.3	1.2	2.7	1.5	5.0						
Terrain	Flat	Rolling	Rolling	Rolling	Flat						
Existing Road Surface	6.0-BTM (Good)	6.0-BTM (Good)	6.0-BTM (Good)	6.0-BTM (Good)	6.0-BTM (Good)						
Proposed Improvement											
Improvement Type	-	-	-	-	-						
Surface Type	-	-	-	-	-						
Carriageway Width(m)	-	-	-	-	-						
Shoulder Width (m)	-	-	-	-	-						
Ref. Typical Section	-	-	-	-	-						
Bridge No.	BR-1	BR-2	BR-3	BR-4	BR-5	BR-6	BR-7	BR-8	BR-9	BR-10	BR-11
Existing Type	Concrete	Concrete	Concrete	Steel	Bailey	Bailey	Concrete	Bailey	Bailey	RCBC	Bailey
Length (m)	76	82	5	16	30	38	22	384	43	5	31
Proposed Type	-	-	1Lane-Br	-	2Lane-Br	2Lane-Br	1Lane-Br	2Lane-Br	2Lane-Br	2cell-BC	2Lane-Br
Length (m)	-	-	5	-	32	39	22	386	44	6	32
No. of Spans	-	-	1	-	2	2	1	16	2	2	2

THE FEASIBILITY STUDY ON THE RURAL ROAD NETWORK DEVELOPMENT PROJECT IN THE REPUBLIC OF THE PHILIPPINES	PRESENT CONDITION AND PROPOSED IMPROVEMENT	Scale 1:50,000	Drawing No. 11

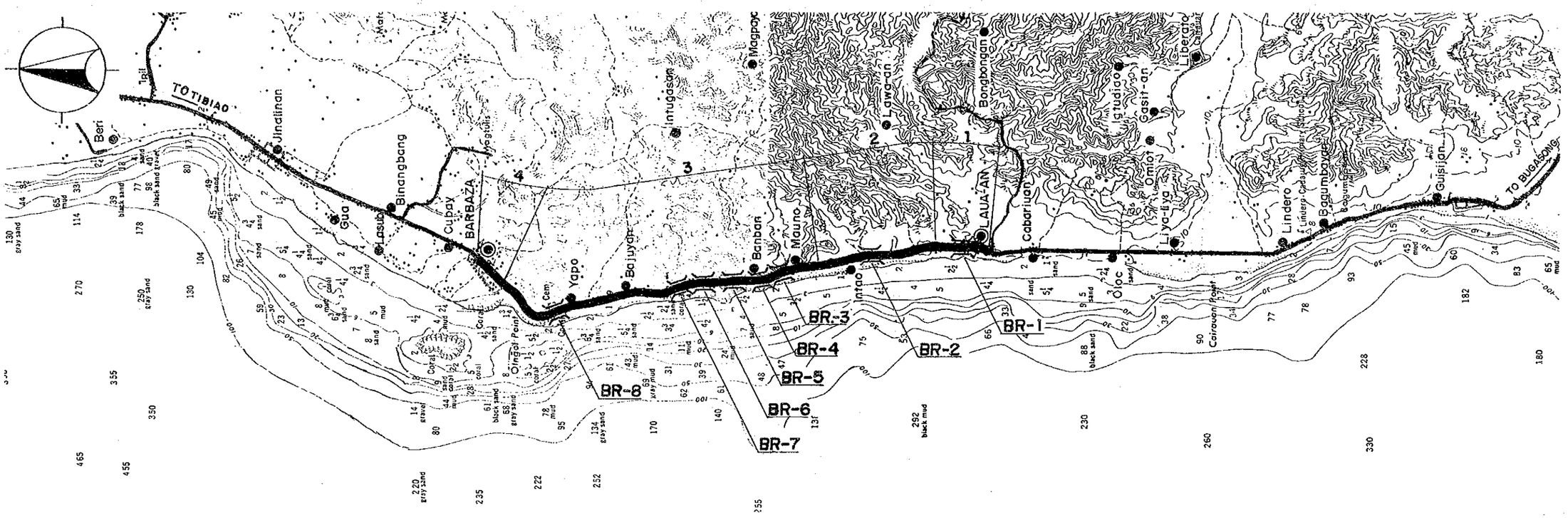
Road No: N1-9 Road Name: BUGASONG-LAUA-AN ROAD
Location : BUGASONG & LAUA-AN, ANTIQUE



Road Classification	Primary Major (National Road)							
Total Length	13.3 km							
Sub-section No.	1	2	3	4	5			
Length (km)	7.2	1.1	.9	1.4	2.7			
Terrain	Flat	Flat	Flat	Flat	Flat			
Existing Road Surface	5.0-BTM (Good)	5.0-BTM (Good)	5.0-BTM (Good)	5.0-BTM (Good)	5.0-BTM (Good)			
Proposed Improvement								
Improvement Type	Widening	Widening	Widening	Widening	Widening			
Surface Type	AC	AC	AC	AC	AC			
Carriageway Width(m)	6.7	6.7	6.7	6.7	6.7			
Shoulder Width (m)	2.0	2.0	2.0	2.0	2.0			
Ref. Typical Section	TYPE 4-2	TYPE 4-2	TYPE 4-2	TYPE 4-2	TYPE 4-2			
Bridge No.	BR-1	BR-2	BR-3	BR-4	BR-5	BR-6	BR-7	BR-8
Existing Type	RCBC	Steel	RCBC	RCBC	RCBC	Concrete	RCBC	RCBC
Length (m)	5	321	6	4	6	135	6	5
Proposed Type	2cell-BC	-	2cell-BC	2cell-BC	2cell-BC	-	2cell-BC	2cell-BC
Length (m)	5	-	6	5	6	-	6	6
No. of Spans	2	-	2	2	2	-	2	2

THE FEASIBILITY STUDY ON THE RURAL ROAD NETWORK DEVELOPMENT PROJECT IN THE REPUBLIC OF THE PHILIPPINES	PRESENT CONDITION AND PROPOSED IMPROVEMENT	Scale 1:50,000	Drawing No. 12

Road No: N1-10 Road Name: LAUA-AN-BARBAZA ROAD
Location : LAUA-AN & BARBAZA, ANTIQUE

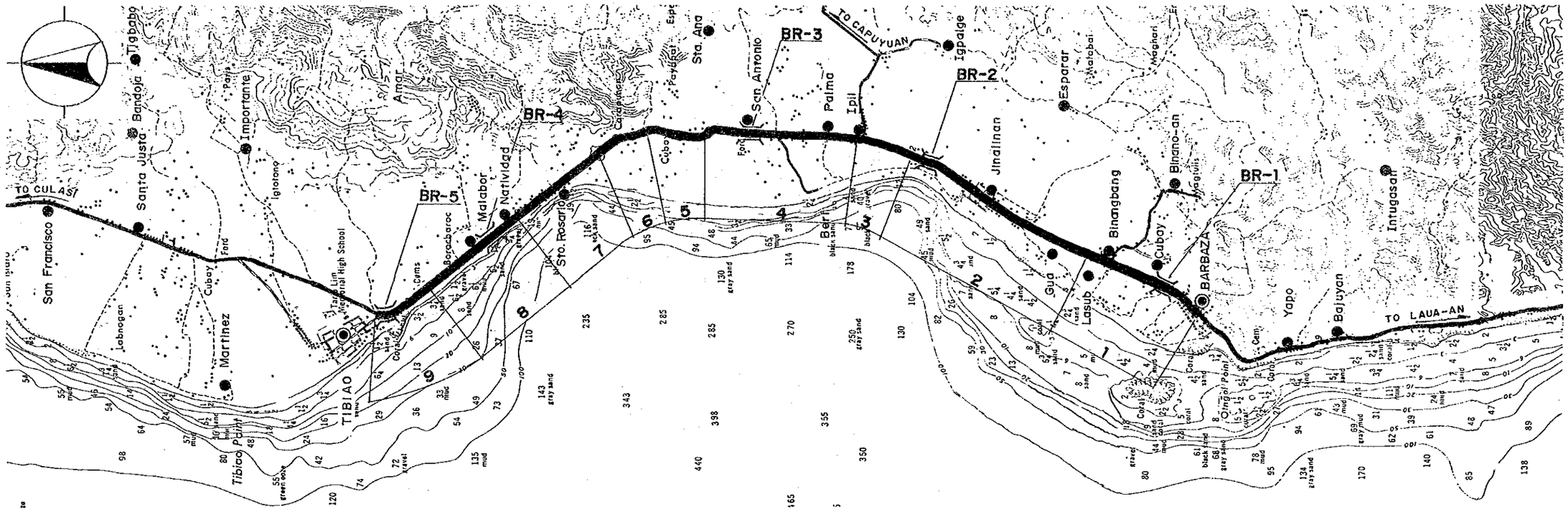


Road Classification	Primary Major (National Road)							
Total Length	6.4 km							
Sub-section No.	1	2	3	4				
Length (km)	.5	1.5	4.1	.3				
Terrain	Flat	Flat	Rolling	Flat				
Existing Road Surface	6.0-BTM (Good)	5.5-GRV (Good)	5.5-GRV (Good)	5.0-BTM (Good)				
Proposed Improvement								
Improvement Type	-	Impr.-2	Impr.-2	Widening				
Surface Type	-	* BMP	* BMP	* BMP				
Carriageway Width(m)	-	6.0	6.0	6.0				
Shoulder Width (m)	-	2.0	1.5	2.0				
Ref. Typical Section	-	TYPE 3-4	TYPE 3-4	TYPE 4-3				
Special Treatment								
Steep Section Length	-	-	200	-				
Bridge No.	BR-1	BR-2	BR-3	BR-4	BR-5	BR-6	BR-7	BR-8
Existing Type	Concrete	Concrete	Bailey	Concrete	Bailey	Concrete	RCBC	Steel
Length (m)	28	18	30	6	12	5	5	25
Proposed Type	1Lane-Br	-	2Lane-Br	-	2Lane-Br	1Lane-Br	2cell-BC	-
Length (m)	30	-	32	-	14	6	5	-
No. of Spans	2	-	2	-	1	1	2	-

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

THE FEASIBILITY STUDY ON THE RURAL ROAD NETWORK DEVELOPMENT PROJECT IN THE REPUBLIC OF THE PHILIPPINES	PRESENT CONDITION AND PROPOSED IMPROVEMENT	Scale 1:50,000	Drawing No. 13

Road No: N1-11 Road Name: BARBAZA-TIBIAO ROAD
Location : BARBAZA & TIBIAO, ANTIQUE



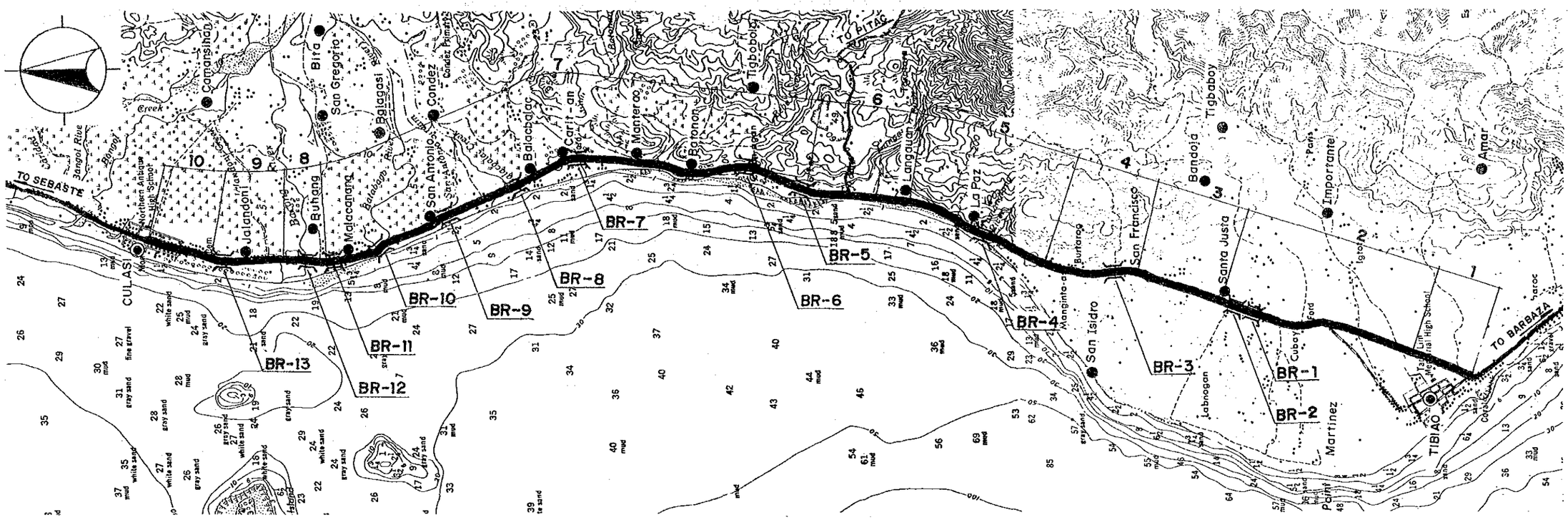
Road Classification	Primary Major (National Road)								
Total Length	13.3 km								
Sub-section No.	1	2	3	4	5	6	7	8	9
Length (km)	1.5	2.5	.8	2.8	.8	.5	1.8	1.8	.8
Terrain	Flat	Flat	Flat	Flat	Rolling	Rolling	Flat	Flat	Flat
Existing Road Surface	5.0-BTM (Good)	5.5-GRV (Good)	6.0-GRV (Good)	4.5-GRV (Good)	5.5-GRV (Good)	4.5-GRV (Good)	4.5-GRV (Good)	6.0-GRV (Good)	5.5-BTM (Good)
Proposed Improvement									
Improvement Type	Widening	Impr.-2	Impr.-2	Impr.-2	Impr.-2	Impr.-2	Impr.-2	Impr.-2	Widening
Surface Type	* BMP	* BMP	* BMP	* BMP	* BMP	* BMP	* BMP	* BMP	* BMP
Carriageway Width(m)	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.5
Shoulder Width (m)	2.0	2.0	2.0	2.0	1.5	1.5	2.0	2.0	2.0
Ref. Typical Section	TYPE 4-3	TYPE 3-4	TYPE 3-4	TYPE 3-4	TYPE 3-4	TYPE 3-4	TYPE 3-4	TYPE 3-4	TYPE 4-3
Special Treatment									
Steep Section Length	-	-	-	-	100	100	-	-	-

Bridge No.	BR-1	BR-2	BR-3	BR-4	BR-5
Existing Type	Concrete	Concrete	Bailey	Bailey	Concrete
Length (m)	35	21	367	18	25
Proposed Type	1Lane-Br	-	2Lane-Br	2Lane-Br	1Lane-Br
Length (m)	35	-	371	20	25
No. of Spans	2	-	15	1	1

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

THE FEASIBILITY STUDY ON THE RURAL ROAD NETWORK DEVELOPMENT PROJECT IN THE REPUBLIC OF THE PHILIPPINES	PRESENT CONDITION AND PROPOSED IMPROVEMENT	Scale 1: 50,000	Drawing No. 14

Road No: N1-12 Road Name: TIBIAO-CULASI ROAD
Location : TIBIAO & CULASI, ANTIQUE

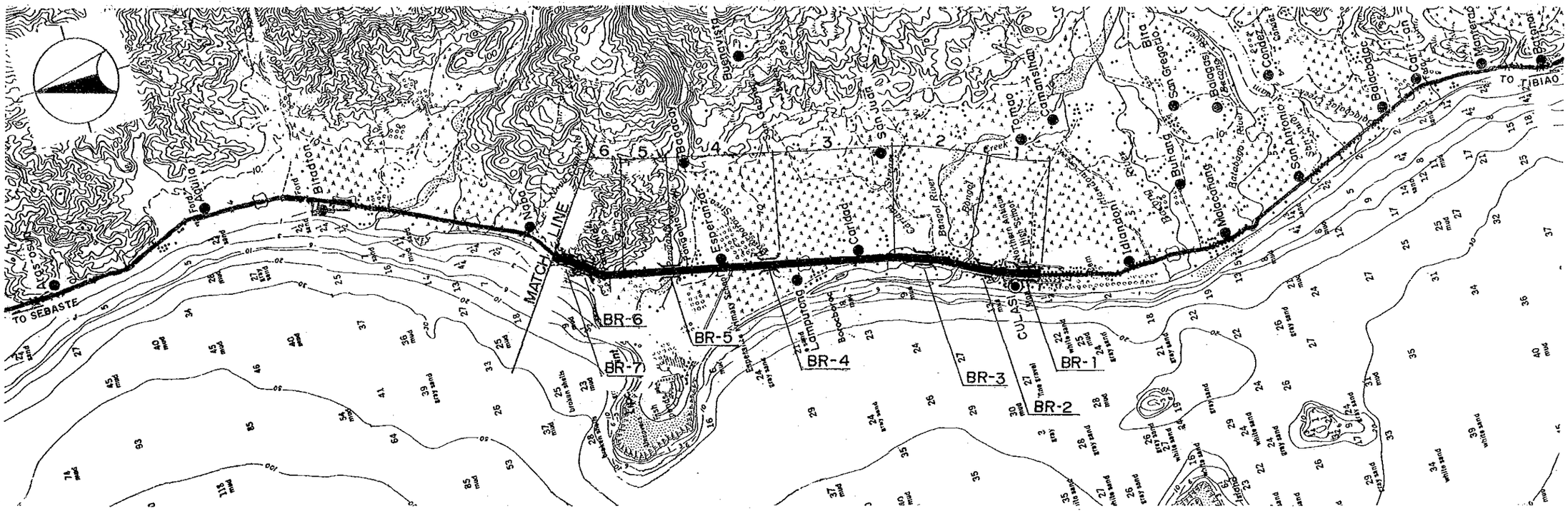


Road Classification	Primary Major (National Road)												
Total Length	17.7 km												
Sub-section No.	1	2	3	4	5	6	7	8	9	10			
Length (km)	.9	2.6	1.0	1.1	2.2	1.2	6.5	.4	.8	1.0			
Terrain	Flat	Flat	Flat	Flat	Flat	Rolling	Flat	Flat	Flat	Flat			
Existing Road Surface	5.5-BTM (Good)	6.0-GRV (Good)	5.5-GRV (Good)	6.0-GRV (Good)	5.5-GRV (Good)	5.5-GRV (Good)	6.0-GRV (Good)	4.5-GRV (Good)	6.0-GRV (Good)	5.0-BTM (Good)			
Proposed Improvement													
Improvement Type	Widening	Impr.-2	Impr.-2	Impr.-2	Impr.-2	Impr.-2	Impr.-2	Impr.-2	Impr.-2	Widening			
Surface Type	* BMP	* BMP	* BMP	* BMP	* BMP	* BMP	* BMP	* BMP	* BMP	* BMP			
Carriageway Width(m)	6.5	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0			
Shoulder Width (m)	2.0	2.0	2.0	2.0	2.0	1.5	2.0	2.0	2.0	2.0			
Ref. Typical Section	TYPE 4-3	TYPE 3-4	TYPE 3-4	TYPE 3-4	TYPE 3-4	TYPE 3-4	TYPE 3-4	TYPE 3-4	TYPE 3-4	TYPE 4-3			
Special Treatment													
Flood Section Length	-	-	-	-	-	-	-	300	-	-			
Height	-	-	-	-	-	-	-	2.0	-	-			
Steep Section Length	-	-	-	-	-	100	100	-	-	-			
Bridge No.	BR-1	BR-2	BR-3	BR-4	BR-5	BR-6	BR-7	BR-8	BR-9	BR-10	BR-11	BR-12	BR-13
Existing Type	Bailey	Concrete	RCBC	Concrete	Concrete	RCBC	Steel	Concrete	RCBC	Concrete	Concrete	Timber	Bailey
Length (m)	22	255	4	8	19	4	27	33	6	25	21	12	19
Proposed Type	2Lane-Br	-	1cell-BC	-	-	-	-	-	2cell-BC	-	-	2Lane-Br	2Lane-Br
Length (m)	22	-	4	-	-	-	-	-	6	-	-	12	19
No. of Spans	1	-	1	-	-	-	-	-	2	-	-	1	1

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

THE FEASIBILITY STUDY ON THE RURAL ROAD NETWORK DEVELOPMENT PROJECT IN THE REPUBLIC OF THE PHILIPPINES	PRESENT CONDITION AND PROPOSED IMPROVEMENT	Scale 1:50,000	Drawing No. 15

Road No: N1-13 Road Name: CULASI-SEBASTE ROAD
Location : CULASI & SEBASTE, ANTIQUE

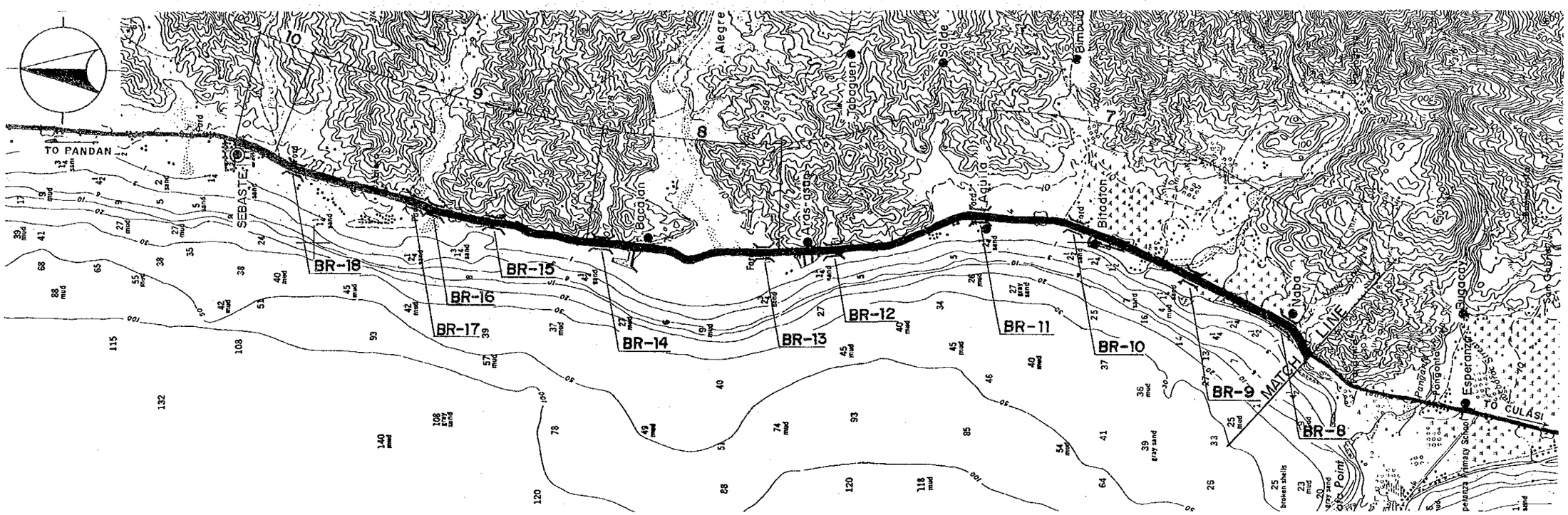


Road Classification	Primary Major (National Road)						
Total Length	20.6 km						
Sub-section No.	1	2	3	4	5	6	
Length (km)	.8	1.0	1.3	1.3	.9	1.2	
Terrain	Flat	Flat	Flat	Flat	Flat	Rolling	
Existing Road Surface	5.0-BTM (Good)	5.5-GRV (Bad)	4.0-GRV (Bad)	4.5-GRV (Good)	4.0-GRV (Bad)	4.4-GRV (Bad)	
Proposed Improvement							
Improvement Type	Widening	Impr.-1	Impr.-1	Impr.-2	Impr.-1	Impr.-1	
Surface Type	* BMP	* BMP	* BMP	* BMP	* BMP	* BMP	
Carriageway Width(m)	6.0	6.0	6.0	6.0	6.0	6.0	
Shoulder Width (m)	2.0	2.0	2.0	2.0	2.0	1.5	
Ref. Typical Section	TYPE 4-3	TYPE 2-4	TYPE 2-4	TYPE 3-4	TYPE 2-4	TYPE 2-4	
Special Treatment							
Flood Section Length	-	-	-	-	-	-	
Height	-	-	-	-	-	-	
Bridge No.	BR-1	BR-2	BR-3	BR-4	BR-5	BR-6	BR-7
Existing Type	Concrete	Spillway	Concrete	RCBC	Bailey	Concrete	Concrete
Length (m)	12	52	37	5	46	6	6
Proposed Type	-	2Lane-Br	-	-	2Lane-Br	-	-
Length (m)	-	52	-	-	46	-	-
No. of Spans	-	3	-	-	2	-	-

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

THE FEASIBILITY STUDY ON THE RURAL ROAD NETWORK DEVELOPMENT PROJECT IN THE REPUBLIC OF THE PHILIPPINES	PRESENT CONDITION AND PROPOSED IMPROVEMENT	Scale 1:50,000	Drawing No. 16

Road No: N1-13 Road Name: CULASI-SEBASTE ROAD
Location : CULASI & SEBASTE, ANTIQUE

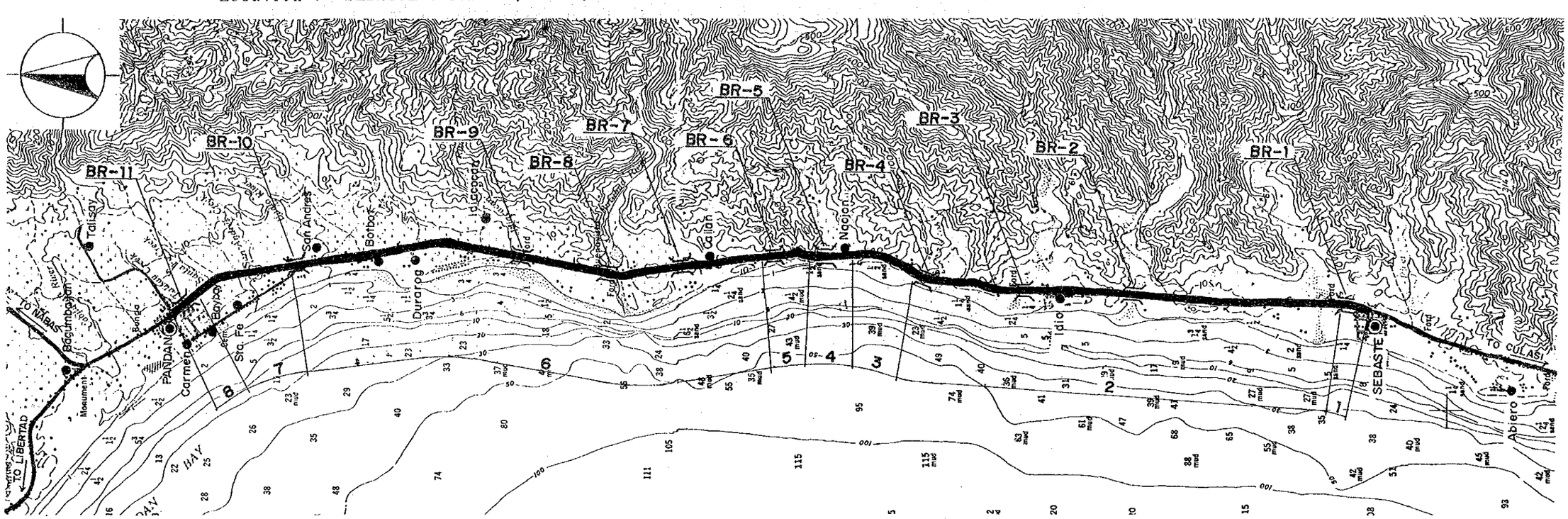


Road Classification											
Total Length											
Sub-section No.	7	8	9	10							
Length (km)	7.2	2.4	4.0	.5							
Terrain	Flat	Flat	Flat	Flat							
Existing Road Surface	4.5-GRV (Bad)	5.5-GRV (Good)	4.0-GRV (Bad)	5.0-BTM (Good)							
Proposed Improvement											
Improvement Type	Impr.-1	Impr.-2	Impr.-1	Widening							
Surface Type	* BMP	* BMP	* BMP	* BMP							
Carriageway Width(m)	6.0	6.0	6.0	6.0							
Shoulder Width (m)	2.0	2.0	2.0	2.0							
Ref. Typical Section	TYPE 2-4	TYPE 3-4	TYPE 2-4	TYPE 4-3							
Special Treatment											
Filod Section Length	300	-	-	-							
Height	2.0	-	-	-							
Bridge No.	BR-8	BR-9	BR-10	BR-11	BR-12	BR-13	BR-14	BR-15	BR-16	BR-17	BR-18
Existing Type	Concrete	Bailey	Concrete	Concrete	Concrete	Concrete	Bailey	Concrete	Ford-Cr.	Concrete	Concrete
Length (m)	75	7	37	33	13	87	31	7	-	35	35
Proposed Type	-	2cell-BC	-	-	-	-	2Lane-Br	-	2Lane-Br	-	-
Length (m)	-	7	-	-	-	-	32	-	40	-	-
No. of Spans	-	2	-	-	-	-	2	-	2	-	-

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

THE FEASIBILITY STUDY ON THE RURAL ROAD NETWORK DEVELOPMENT PROJECT IN THE REPUBLIC OF THE PHILIPPINES	PRESENT CONDITION AND PROPOSED IMPROVEMENT	Scale 1:50,000	Drawing No. 17

Road No: N1-14 Road Name: SEBASTE-PANDAN ROAD
Location : SEBASTE & PANDAN, ANTIQUE

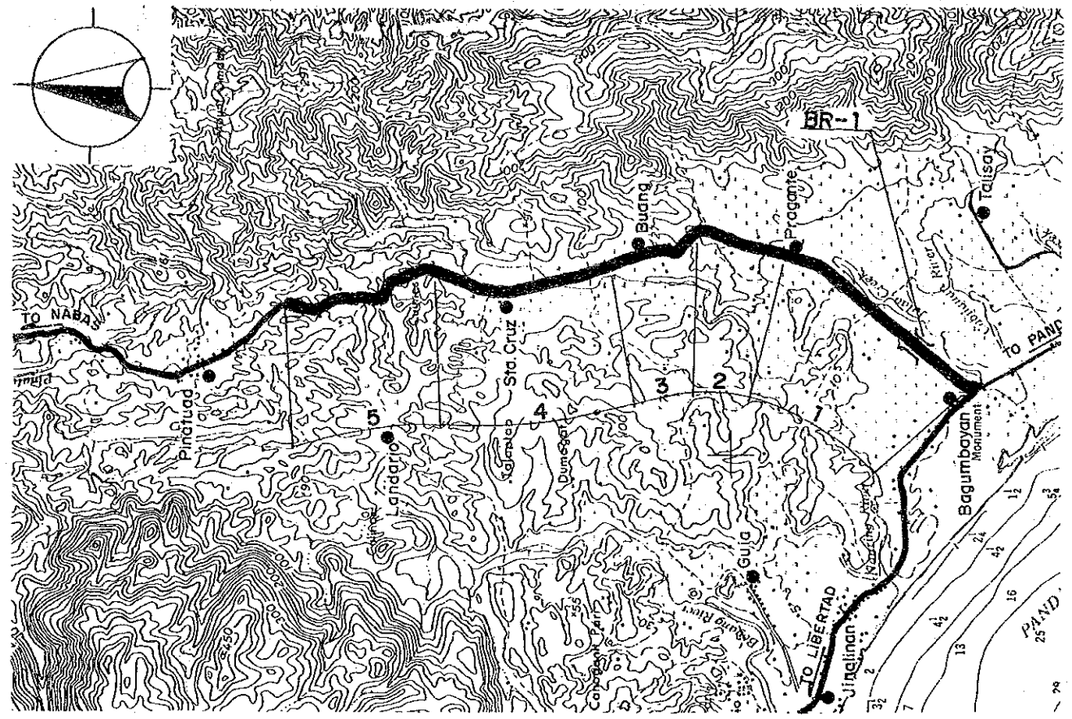


Road Classification	Primary Major (National Road)										
Total Length	15.4 km										
Sub-section No.	1	2	3	4	5	6	7	8			
Length (km)	.3	5.2	.9	.5	.6	6.0	1.6	.3			
Terrain	Flat	Flat	Rolling	Flat	Rolling	Flat	Flat	Flat			
Existing Road Surface	5.0-BTM (Good)	4.5-GRV (Bad)	4.0-GRV (Bad)	4.5-GRV (Good)	4.0-GRV (Bad)	4.0-GRV (Bad)	4.5-GRV (Fair)	5.0-BTM (Good)			
Proposed Improvement											
Improvement Type	Widening	Impr.-1	Impr.-1	Impr.-2	Impr.-1	Impr.-1	Impr.-2	Widening			
Surface Type	* BMP	* BMP	* BMP	* BMP	* BMP	* BMP	* BMP	* BMP			
Carriageway Width(m)	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0			
Shoulder Width (m)	2.0	2.0	1.5	2.0	1.5	2.0	2.0	2.0			
Ref. Typical Section	TYPE 4-3	TYPE 2-4	TYPE 2-4	TYPE 3-4	TYPE 2-4	TYPE 2-4	TYPE 3-4	TYPE 4-3			
Special Treatment											
Steep Section Length	-	-	100	-	-	-	-	-			
Bridge No.	BR-1	BR-2	BR-3	BR-4	BR-5	BR-6	BR-7	BR-8	BR-9	BR-10	BR-11
Existing Type	Concrete	Concrete	Concrete	Bailey	Concrete	Concrete	Concrete	Concrete	Bailey	Bailey	Concrete
Length (m)	33	18	35	30	35	5	6	29	30	31	5
Proposed Type	-	-	-	2Lane-Br	-	-	-	-	2Lane-Br	2Lane-Br	-
Length (m)	-	-	-	32	-	-	-	-	32	32	-
No. of Spans	-	-	-	2	-	-	-	-	2	2	-

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

THE FEASIBILITY STUDY ON THE RURAL ROAD NETWORK DEVELOPMENT PROJECT IN THE REPUBLIC OF THE PHILIPPINES	PRESENT CONDITION AND PROPOSED IMPROVEMENT	Scale 1:50,000	Drawing No. 18

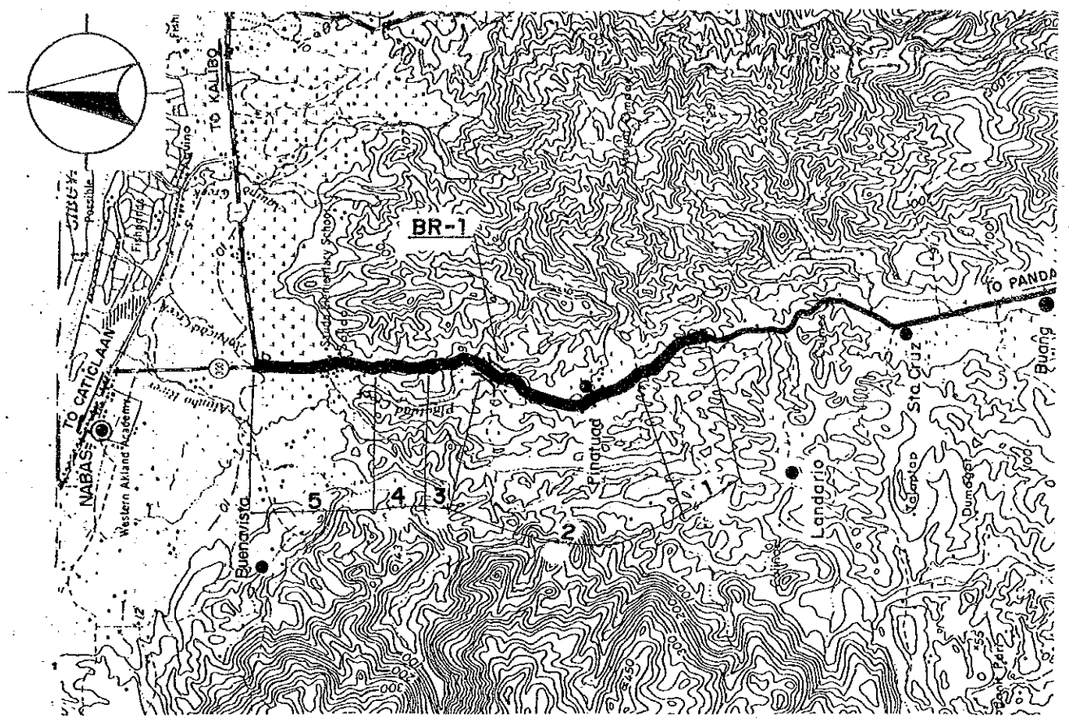
Road No: N1-16 Road Name: PANDAN JCT.-AKLAN-ANTIQUE BDRY. ROAD
Location : PANDAN, ANTIQUE



Road Classification	Primary Major (National Road)				
Total Length	5.7 km				
Sub-section No.	1	2	3	4	5
Length (km)	2.0	.9	.7	.7	1.4
Terrain	Flat	Flat	Rolling	Flat	Rolling
Existing Road Surface	5.5-GRV (Fair)	4.0-GRV (Fair)	4.0-GRV (Bad)	4.5-GRV (Fair)	4.0-GRV (Fair)
Proposed Improvement					
Improvement Type	Impr.-2	Impr.-2	Impr.-1	Impr.-2	Impr.-2
Surface Type	* BMP	* BMP	* BMP	* BMP	* BMP
Carriageway Width(m)	6.0	6.0	6.0	6.0	6.0
Shoulder Width (m)	2.0	2.0	1.5	2.0	1.5
Ref. Typical Section	TYPE 3-4	TYPE 3-4	TYPE 2-4	TYPE 3-4	TYPE 3-4
Special Treatment					
Steep Section Length	-	-	100	-	-
Bridge No.	BR-1				
Existing Type	Concrete				
Length (m)	16				
Proposed Type	-				
Length (m)	-				
No. of Spans	-				

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

Road No: N1-17 Road Name: AKLAN-ANTIQUE BDRY.-NABAS, AKLAN ROAD
Location : NABAS, AKLAN

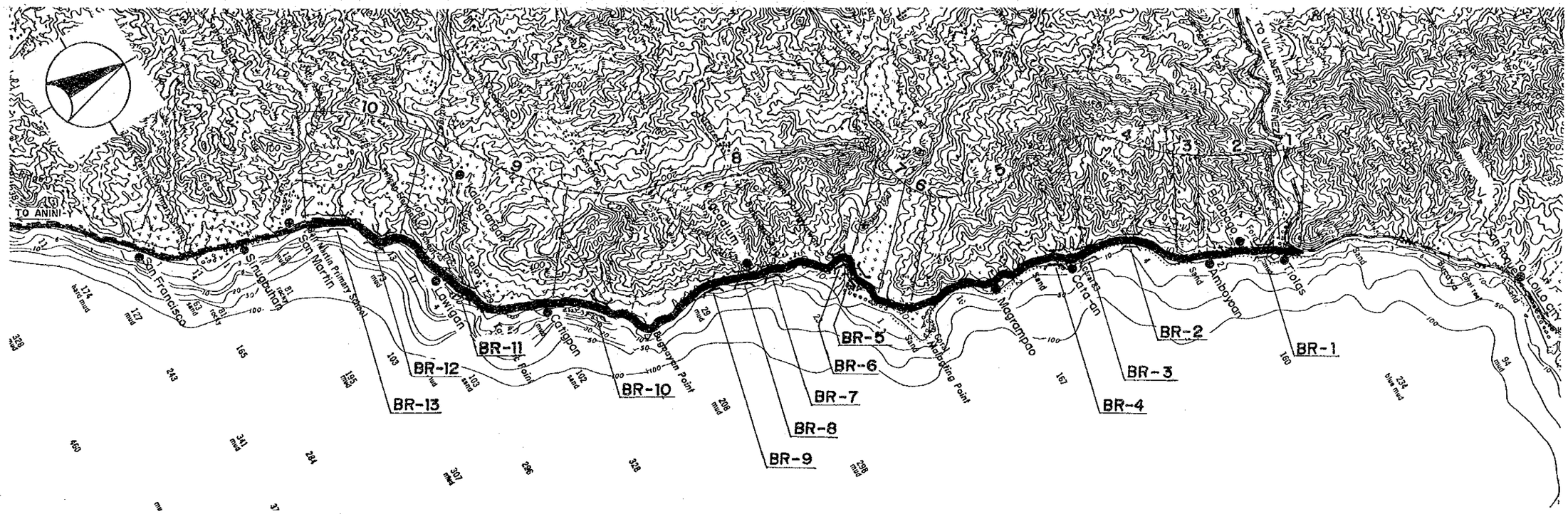


Road Classification	Primary Major (National Road)				
Total Length	4.6 km				
Sub-section No.	1	2	3	4	5
Length (km)	.6	1.5	.7	.7	1.1
Terrain	Rolling	Rolling	Flat	Rolling	Rolling
Existing Road Surface	6.0-BTM (Bad)	4.5-GRV (Bad)	5.5-GRV (Fair)	5.0-BTM (V.Bad)	4.5-GRV (Good)
Proposed Improvement					
Improvement Type	Rehabil.	Impr.-1	Impr.-2	Rehabil.	Impr.-2
Surface Type	* BMP	* BMP	* BMP	* BMP	* BMP
Carriageway Width(m)	6.0	6.0	6.0	6.0	6.0
Shoulder Width (m)	1.5	1.5	2.0	1.5	1.5
Ref. Typical Section	TYPE 1-5	TYPE 2-4	TYPE 3-4	TYPE 1-5	TYPE 3-4
Special Treatment					
Steep Section Length	-	100	-	-	-
Bridge No.	BR-1				
Existing Type	Concrete				
Length (m)	24				
Proposed Type	-				
Length (m)	-				
No. of Spans	-				

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

THE FEASIBILITY STUDY ON THE RURAL ROAD NETWORK DEVELOPMENT PROJECT IN THE REPUBLIC OF THE PHILIPPINES	PRESENT CONDITION AND PROPOSED IMPROVEMENT	Scale 1:50,000	Drawing No. 19

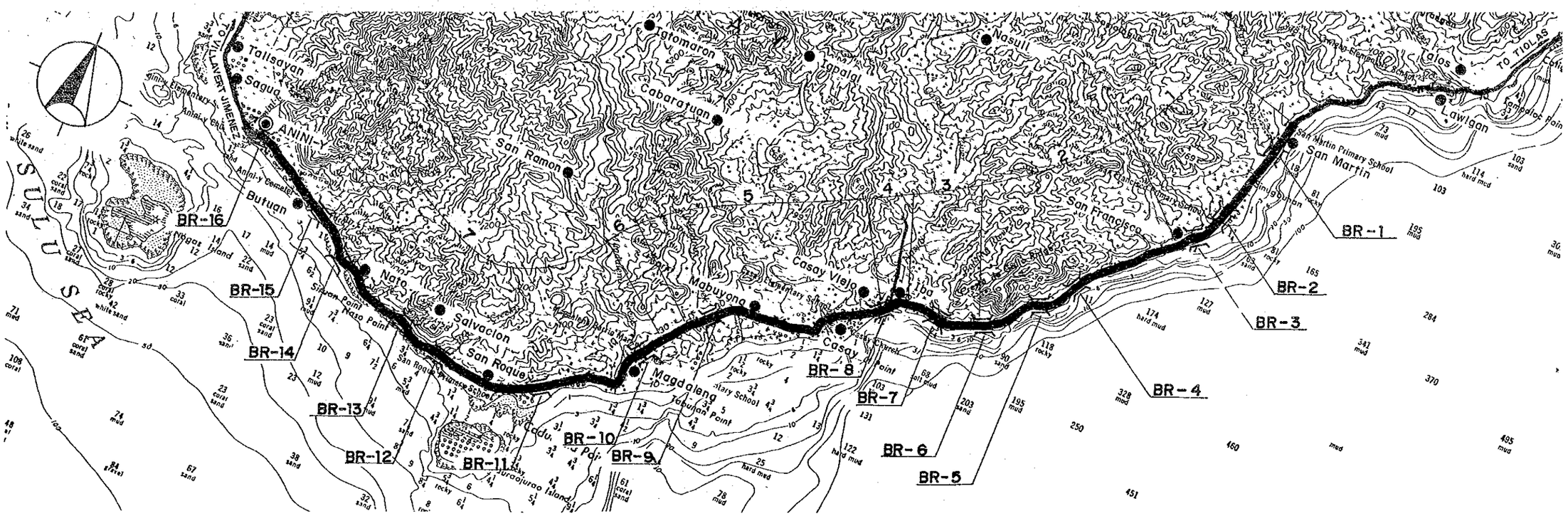
Road No: N2-1 Road Name: TIOLAS-SAN FRANCISCO ROAD
Location : ANINI-Y, ANTIQUE & SAN JOAQUIN, ILOILO



Road Classification	Secondary Major (National Road)												
Total Length	15.3 km												
Sub-section No.	1	2	3	4	5	6	7	8	9	10			
Length (km)	.2	1.0	.3	1.3	2.5	.5	.5	4.6	2.4	2.0			
Terrain	Rolling	Rolling	Rolling	Flat	Rolling	Rolling	Flat	Rolling	Flat	Rolling			
Existing Road Surface	5.5-GRV (Bad)	6.0-PCC (Good)	6.0-GRV (Bad)	6.0-GRV (Bad)	5.0-GRV (Bad)	4.5-GRV (Bad)	4.5-GRV (Bad)	5.5-GRV (Bad)	4.5-GRV (Bad)	4.0-GRV (Bad)			
Proposed Improvement													
Improvement Type	Rehabil.	-	Rehabil.	Rehabil.	Rehabil.	Rehabil.	Rehabil.	Rehabil.	Rehabil.	Rehabil.			
Surface Type	Gravel	-	Gravel	Gravel	Gravel	Gravel	Gravel	Gravel	Gravel	Gravel			
Carriageway Width(m)	6.0	-	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0			
Shoulder Width (m)	.5	-	.5	1.0	.5	.5	1.0	.5	1.0	.5			
Ref. Typical Section	TYPE 1-6	-	TYPE 1-6	TYPE 1-6	TYPE 1-6	TYPE 1-6	TYPE 1-6	TYPE 1-6	TYPE 1-6	TYPE 1-6			
Special Treatment													
Steep Section Length	60	-	-	-	-	-	-	-	100	200			
Bridge No.	BR-1	BR-2	BR-3	BR-4	BR-5	BR-6	BR-7	BR-8	BR-9	BR-10	BR-11	BR-12	BR-13
Existing Type	Concrete	Bailey	Bailey	Bailey	Bailey	Steel	Bailey	Spillway	Timber	Timber	Bailey	Timber	Timber
Length (m)	105	12	15	14	23	41	12	16	14	12	90	22	43
Proposed Type	-	2Lane-Br	2Lane-Br	2Lane-Br	2Lane-Br	-	2Lane-Br	2Lane-Br	2Lane-Br	2Lane-Br	2Lane-Br	2Lane-Br	2Lane-Br
Length (m)	-	12	16	14	24	-	12	16	15	12	90	23	43
No. of Spans	-	1	1	1	1	-	1	1	1	1	4	1	2

THE FEASIBILITY STUDY ON THE RURAL ROAD NETWORK DEVELOPMENT PROJECT IN THE REPUBLIC OF THE PHILIPPINES	PRESENT CONDITION AND PROPOSED IMPROVEMENT	Scale 1:50,000	Drawing No. 20

Road No: N2-2 Road Name: SAN FRANCISCO-ANINI-Y ROAD
Location : ANINI-Y, ANTIQUE



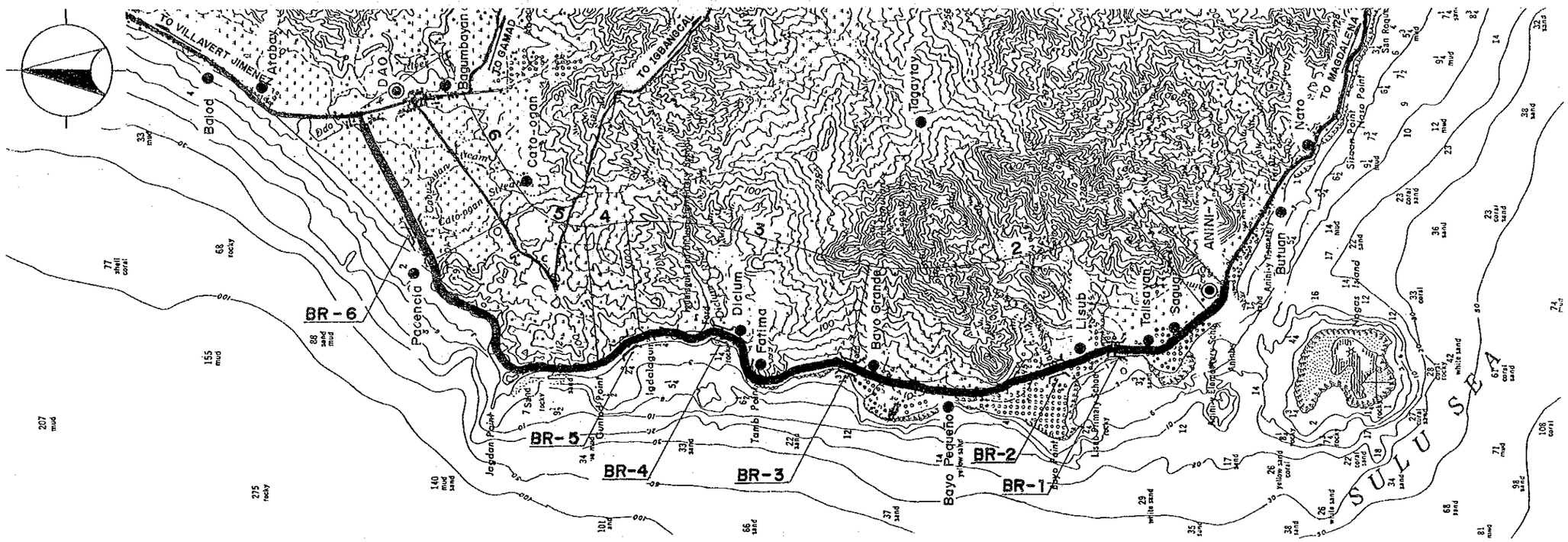
Road Classification	Secondary Major (National Road)						
Total Length	15.3 km						
Sub-section No.	1	2	3	4	5	6	7
Length (km)	2.1	2.6	.7	.4	2.5	.3	6.7
Terrain	Flat	Rolling	Rolling	Rolling	Rolling	Flat	Flat
Existing Road Surface	4.5-GRV (Fair)	4.0-GRV (Bad)	4.5-GRV (Bad)	6.0-BTM (Bad)	6.0-GRV (Good)	5.0-BTM (Bad)	6.0-GRV (Bad)
Proposed Improvement							
Improvement Type	Widening	Rehabil.	Rehabil.	Rehabil.	Rehabil.	Rehabil.	Rehabil.
Surface Type	Gravel	Gravel	Gravel	* BMP	Gravel	* BMP	Gravel
Carriageway Width(m)	6.0	6.0	6.0	6.0	6.0	6.0	6.0
Shoulder Width (m)	1.0	.5	.5	1.0	.5	1.5	1.0
Ref. Typical Section	TYPE 4-4	TYPE 1-6	TYPE 1-6	TYPE 1-5	TYPE 1-6	TYPE 1-5	TYPE 1-6
Special Treatment							
Steep Section Length	200	100	-	-	-	-	-

Bridge No.	BR-1	BR-2	BR-3	BR-4	BR-5	BR-6	BR-7	BR-8	BR-9	BR-10	BR-11	BR-12	BR-13	BR-14	BR-15	BR-16
Existing Type	Bailey	Spillway	Spillway	Bailey	Bailey	Bailey	Bailey	Bailey	Bailey	Bailey	Bailey	Bailey	Bailey	Timber	Bailey	Timber
Length (m)	19	20	23	18	12	18	48	49	18	30	7	24	12	7	22	6
Proposed Type	2Lane-Br	2Lane-Br	2Lane-Br	2Lane-Br	2Lane-Br	2Lane-Br	2Lane-Br	2Lane-Br	2Lane-Br	2Lane-Br	2Lane-Br	2Lane-Br	2Lane-Br	2Lane-Br	2Lane-Br	2Lane-Br
Length (m)	20	25	25	19	14	20	48	50	20	30	8	24	13	8	22	7
No. of Spans	1	1	1	1	1	1	2	2	1	2	1	1	1	1	1	1

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

THE FEASIBILITY STUDY ON THE RURAL ROAD NETWORK DEVELOPMENT PROJECT IN THE REPUBLIC OF THE PHILIPPINES	PRESENT CONDITION AND PROPOSED IMPROVEMENT	Scale 1:50,000	Drawing No. 21

Road No: N2-3 Road Name: ANINI-Y-DAO ROAD
Location : ANINI-Y & DAO, ANTIQUE

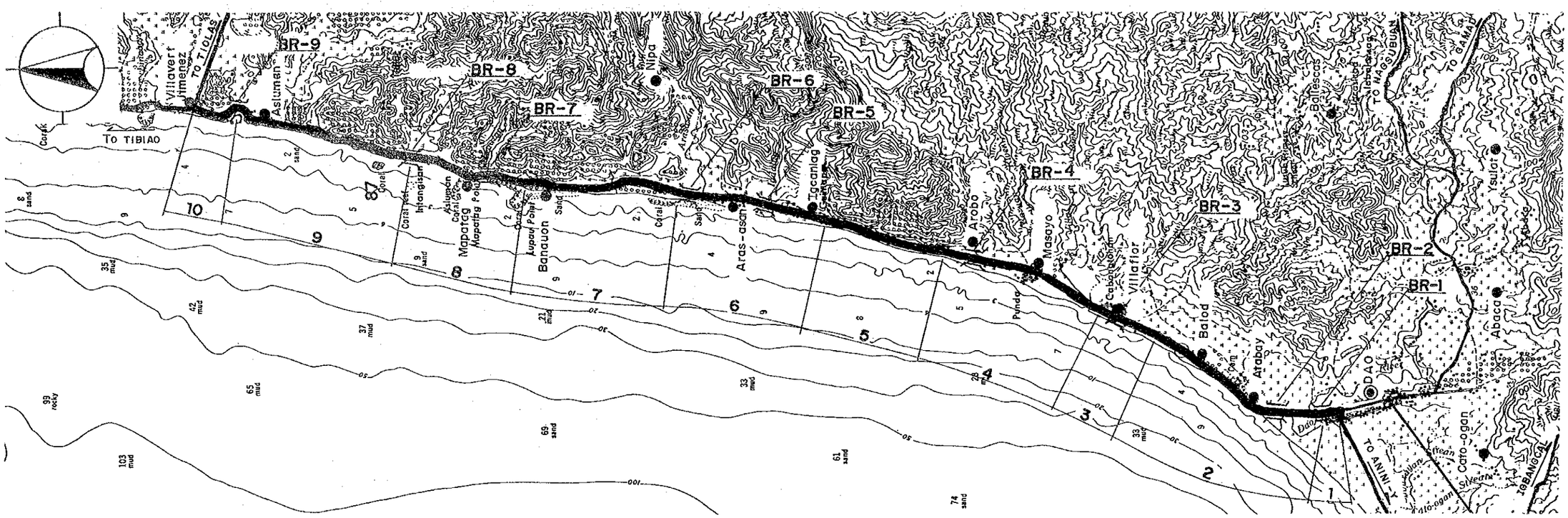


Road Classification	Secondary Major (National Road)					
Total Length	13.0 km					
Sub-section No.	1	2	3	4	5	6
Length (km)	.3	4.3	3.1	.7	2.6	2.0
Terrain	Flat	Flat	Rolling	Flat	Rolling	Flat
Existing Road Surface	4.0-BTM (Bad)	6.0-GRV (Bad)	4.0-GRV (Bad)	4.5-GRV (Bad)	4.0-GRV (Bad)	5.0-GRV (Fair)
Proposed Improvement						
Improvement Type	Rehabil.	Impr.-1	Impr.-1	Impr.-1	Impr.-1	Impr.-2
Surface Type	* BMP	* BMP	* BMP	* BMP	* BMP	* BMP
Carriageway Width(m)	6.0	6.0	6.0	6.0	6.0	6.0
Shoulder Width (m)	1.5	1.5	1.0	1.5	1.0	1.5
Ref. Typical Section	TYPE 1-5	TYPE 2-4	TYPE 2-4	TYPE 2-4	TYPE 2-4	TYPE 3-4
Special Treatment						
Steep Section Length	-	-	100	-	100	-
Bridge No.	BR-1	BR-2	BR-3	BR-4	BR-5	BR-6
Existing Type	Concrete	Concrete	Bailey	Timber	Bailey	Concrete
Length (m)	24	6	13	42	12	20
Proposed Type	-	-	2Lane-Br	2Lane-Br	2Lane-Br	-
Length (m)	-	-	13	42	13	-
No. of Spans	-	-	1	2	1	-

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

THE FEASIBILITY STUDY ON THE RURAL ROAD NETWORK DEVELOPMENT PROJECT IN THE REPUBLIC OF THE PHILIPPINES	PRESENT CONDITION AND PROPOSED IMPROVEMENT	Scale 1:50,000	Drawing No. 22

Road No: N2-4 Road Name: DAO-VILLAVERT-JIMENEZ ROAD
Location : DAO, ANTIQUE

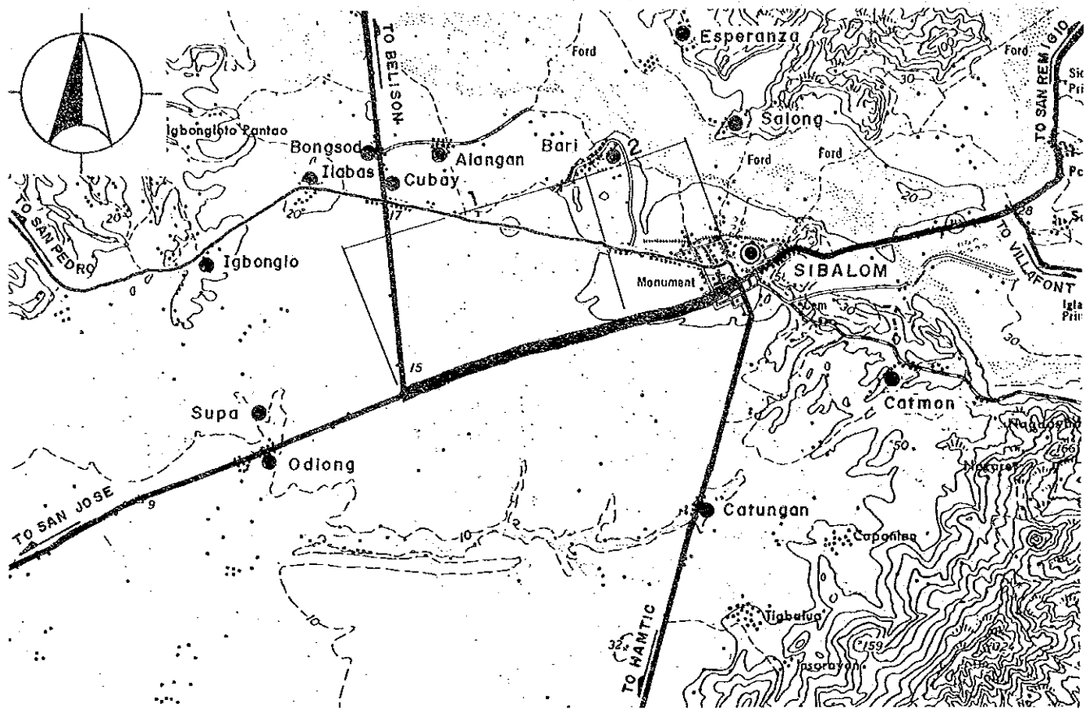


Road Classification	Secondary Major (National Road)									
Total Length	15.5 km									
Sub-section No.	1	2	3	4	5	6	7	8	9	10
Length (km)	.5	2.5	.7	2.0	1.6	1.6	2.1	1.5	2.2	.8
Terrain	Flat	Flat	Flat	Flat	Flat	Flat	Flat	Flat	Flat	Flat
Existing Road Surface	5.0-BTM (Bad)	5.5-GRV (Bad)	6.0-GRV (Fair)	5.0-GRV (Fair)	4.5-GRV (Bad)	5.5-GRV (Fair)	5.5-GRV (Bad)	5.5-GRV (Fair)	4.0-BTM (Bad)	5.5-GRV (Bad)
Proposed Improvement										
Improvement Type	Rehabil.	Impr.-1	Impr.-2	Impr.-2	Impr.-1	Impr.-2	Impr.-1	Impr.-2	Rehabil.	Impr.-1
Surface Type	* BMP	* BMP	* BMP	* BMP	* BMP	* BMP	* BMP	* BMP	* BMP	* BMP
Carriageway Width(m)	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
Shoulder Width (m)	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
Ref. Typical Section	TYPE 1-5	TYPE 2-4	TYPE 3-4	TYPE 3-4	TYPE 2-4	TYPE 3-4	TYPE 2-4	TYPE 3-4	TYPE 1-5	TYPE 2-4
Bridge No.	BR-1	BR-2	BR-3	BR-4	BR-5	BR-6	BR-7	BR-8	BR-9	
Existing Type	Concrete	Bailey	Bailey	Bailey	Bailey	Bailey	Concrete	Concrete	Concrete	
Length (m)	41	9	58	18	21	52	19	19	59	
Proposed Type	-	2Lane-Br	2Lane-Br	2Lane-Br	2Lane-Br	2Lane-Br	-	-	-	
Length (m)	-	10	60	19	21	52	-	-	-	
No. of Spans	-	1	3	1	1	3	-	-	-	

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

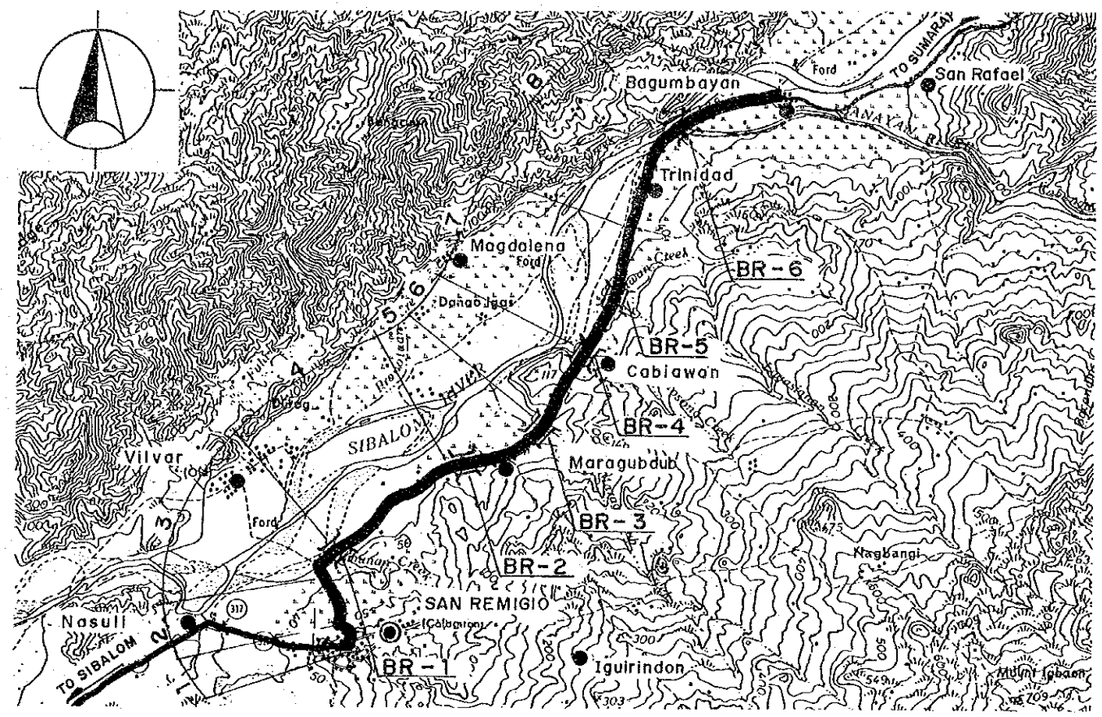
THE FEASIBILITY STUDY ON THE RURAL ROAD NETWORK DEVELOPMENT PROJECT IN THE REPUBLIC OF THE PHILIPPINES	PRESENT CONDITION AND PROPOSED IMPROVEMENT	Scale 1:50,000	Drawing No. 23

Road No: N9-1 Road Name: JCT. SIBALOM-SIBALOM ROAD
Location : SIBALOM, ANTIQUE



Road Classification	Second'y Major Rd (National Road)	
Total Length	3.3 km	
Sub-section No.	1	2
Length (km)	2.1	1.2
Terrain	Flat	Flat
Existing Road Surface	6.0-BTM (Bad)	6.0-BTM (V.Bad)
Proposed Improvement		
Improvement Type	Impr.-1	Impr.-1
Surface Type	PCC	PCC
Carriageway Width(m)	6.0	6.0
Shoulder Width (m)	2.5	2.5
Ref. Typical Section	TYPE 2-1	TYPE 2-1

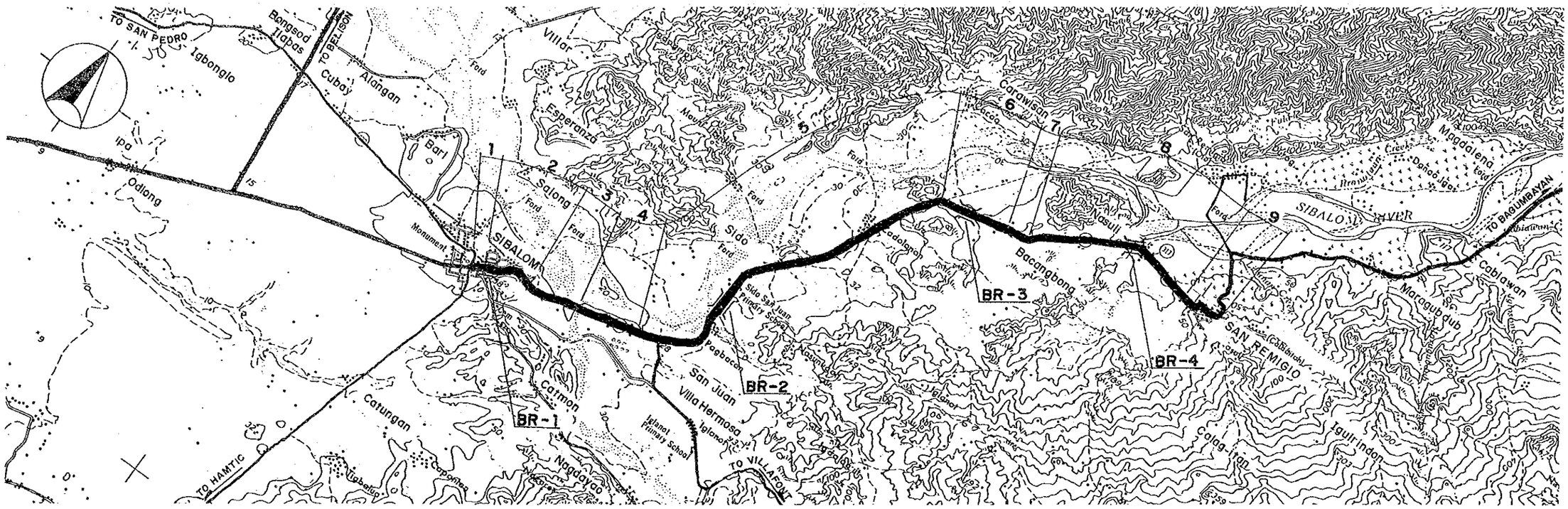
Road No: N9-3 Road Name: SAN REMIGIO(NEW)-BAGUMBAYAN ROAD
Location : SAN REMIGIO, ANTIQUE



Road Classification	Secondary Major (National Road)							
Total Length	7.4 km							
Sub-section No.	1	2	3	4	5	6	7	8
Length (km)	.1	.5	.3	1.4	.7	1.0	1.3	2.1
Terrain	Rolling	Rolling	Rolling	Flat	Flat	Mt'nous	Rolling	Flat
Existing Road Surface	4.0-PCC (Good)	4.5-GRV (Bad)	4.5-GRV (Bad)	4.5-GRV (Bad)	3.3-GRV (Bad)	3.3-GRV (Bad)	3.3-GRV (Bad)	3.3-GRV (Bad)
Proposed Improvement								
Improvement Type	Widening	Rehabil.	Rehabil.	Rehabil.	Rehabil.	Rehabil.	Rehabil.	Rehabil.
Surface Type	PCC	Gravel	Gravel	Gravel	Gravel	Gravel	Gravel	Gravel
Carriageway Width(m)	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
Shoulder Width (m)	1.5	.5	.5	1.0	1.0	.5	.5	1.0
Ref. Typical Section	TYPE 4-1	TYPE 1-6	TYPE 1-6	TYPE 1-6	TYPE 1-6	TYPE 1-6	TYPE 1-6	TYPE 1-6
Bridge No.	BR-1	BR-2	BR-3	BR-4	BR-5	BR-6		
Existing Type	Spillway	Spillway	Spillway	Timber	Ford-Cr.	Bailey		
Length (m)	19	7	30	7	-	36		
Proposed Type	2Lane-Br	2cell-BC	2Lane-Br	2cell-BC	2Lane-Br	2Lane-Br		
Length (m)	20	8	30	8	40	38		
No. of Spans	1	2	2	2	2	2		

THE FEASIBILITY STUDY ON THE RURAL ROAD NETWORK DEVELOPMENT PROJECT IN THE REPUBLIC OF THE PHILIPPINES	PRESENT CONDITION AND PROPOSED IMPROVEMENT	Scale 1:50,000	Drawing No. 24

Road No: N9-2 Road Name: SIBALOM-SAN REMIGIO(NEW) ROAD
Location : SIBALOM & SAN REMIGIO, ANTIQUE



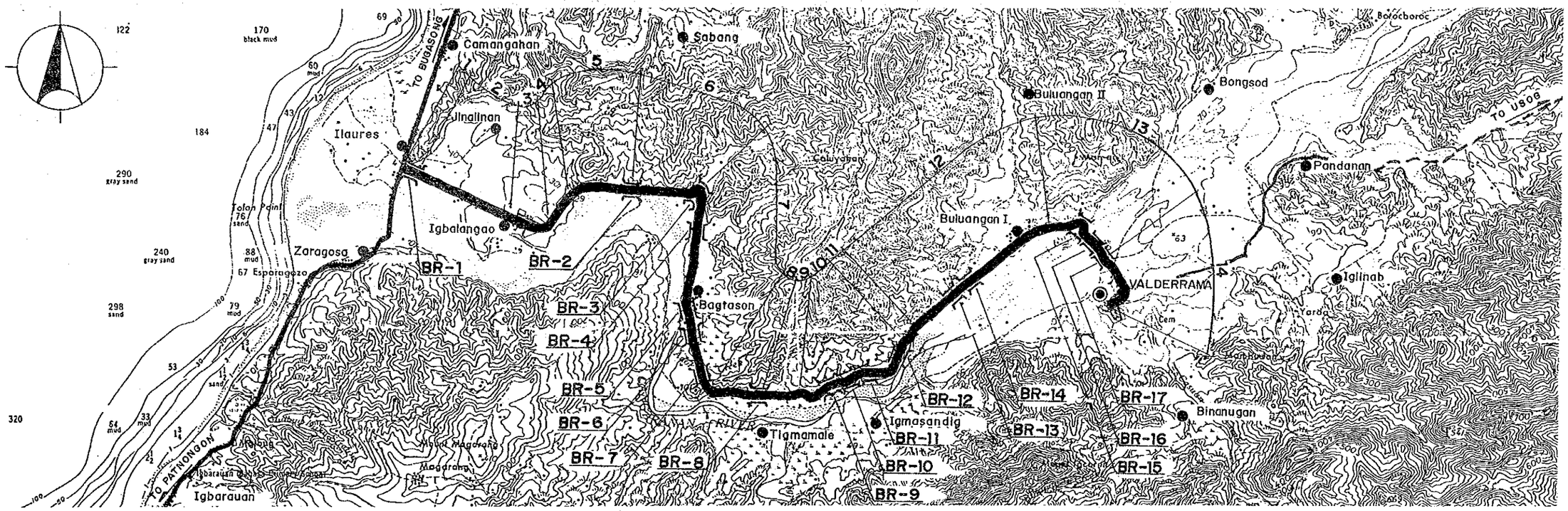
Road Classification	Secondary Major (National Road)								
Total Length	11.2 km								
Sub-section No.	1	2	3	4	5	6	7	8	9
Length (km)	.1	.6	.7	.9	4.7	1.2	.3	2.1	.6
Terrain	Flat	Rolling	Flat	Flat	Flat	Rolling	Rolling	Flat	Rolling
Existing Road Surface	5.0-PCC (Good)	3.2-GRV (Bad)	3.2-GRV (Bad)	4.8-GRV (Bad)	6.0-GRV (Bad)	6.0-GRV (Bad)	5.5-GRV (Bad)	6.0-GRV (Bad)	6.1-PCC (Good)
Proposed Improvement									
Improvement Type	Widening	Impr.-1	Impr.-1	Impr.-1	Impr.-1	Impr.-1	Impr.-1	Impr.-1	-
Surface Type	PCC	* BMP	* BMP	* BMP	* BMP	* BMP	* BMP	* BMP	-
Carriageway Width(m)	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	-
Shoulder Width (m)	2.5	1.0	1.5	1.5	1.5	1.0	1.0	1.5	-
Ref. Typical Section	TYPE 4-1	TYPE 2-4	TYPE 2-4	TYPE 2-4	TYPE 2-4	TYPE 2-4	TYPE 2-4	TYPE 2-4	-
Special Treatment									
Slope Protection									
(Cut Slope)	-	-	-	-	10	-	-	-	-
(Embank't Slop)	-	-	-	-	5	-	-	-	-

Bridge No.	BR-1	BR-2	BR-3	BR-4
Existing Type	Concrete	Bailey	Bailey	Bailey
Length (m)	7	15	13	19
Proposed Type	-	2Lane-Br	2Lane-Br	2Lane-Br
Length (m)	-	16	14	20
No. of Spans	-	1	1	1

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

THE FEASIBILITY STUDY ON THE RURAL ROAD NETWORK DEVELOPMENT PROJECT IN THE REPUBLIC OF THE PHILIPPINES	PRESENT CONDITION AND PROPOSED IMPROVEMENT	Scale 1:50,000	Drawing No. 25

Road No: N10 Road Name: BUGASONG-VALDERRAMA ROAD
Location : BUGASONG & VALDERRAMA, ANTIQUE

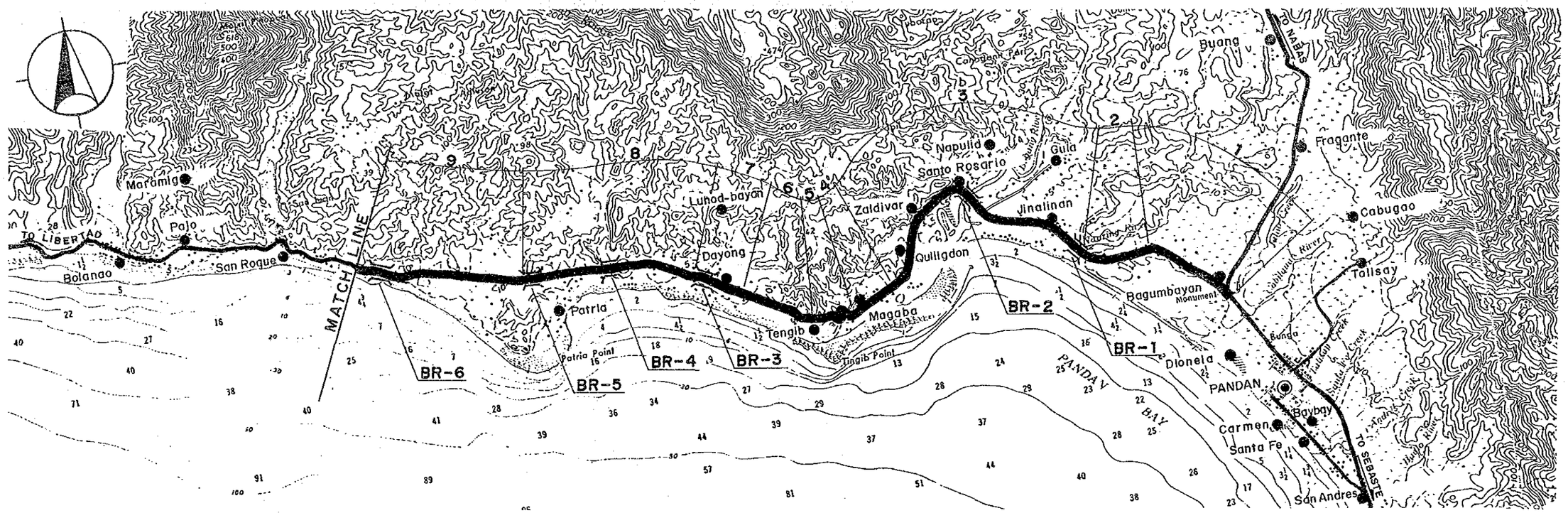


Road Classification	Secondary Major (National Road)																
Total Length	14.2 km																
Sub-section No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14			
Length (km)	.2	1.3	.5	.3	.8	1.1	2.6	.7	.5	1.8	.2	2.3	1.0	.9			
Terrain	Flat	Flat	Flat	Rolling	Rolling	Rolling	Flat	Rolling	Flat	Rolling	Rolling	Flat	Rolling	Flat			
Existing Road Surface	3.6-GRV (Bad)	4.5-GRV (Bad)	5.0-BTM (Bad)	3.4-GRV (Bad)	3.4-GRV (Bad)	3.4-GRV (Bad)	3.4-GRV (Bad)	3.4-GRV (Bad)	3.3-GRV (Bad)	3.4-GRV (Bad)	3.4-GRV (Bad)	3.4-GRV (Bad)	3.4-GRV (Bad)	3.4-GRV (Bad)			
Proposed Improvement																	
Improvement Type	Rehabil.	Rehabil.	Rehabil.	Rehabil.	Rehabil.	Rehabil.	Rehabil.	Rehabil.	Rehabil.	Rehabil.	Rehabil.	Rehabil.	Rehabil.	Rehabil.			
Surface Type	Gravel	Gravel	* BMP	Gravel	Gravel	Gravel	Gravel	Gravel	Gravel	Gravel	Gravel	Gravel	Gravel	Gravel			
Carriageway Width(m)	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0			
Shoulder Width (m)	1.0	1.0	1.5	.5	.5	.5	1.0	.5	1.0	.5	.5	1.0	.5	1.0			
Ref. Typical Section	TYPE 1-6	TYPE 1-6	TYPE 1-5	TYPE 1-6	TYPE 1-6	TYPE 1-6	TYPE 1-6	TYPE 1-6	TYPE 1-6	TYPE 1-6	TYPE 1-6	TYPE 1-6	TYPE 1-6	TYPE 1-6			
Special Treatment																	
Steep Section Length	-	-	-	-	-	-	-	-	-	-	60	-	-	-			
Bridge No.	BR-1	BR-2	BR-3	BR-4	BR-5	BR-6	BR-7	BR-8	BR-9	BR-10	BR-11	BR-12	BR-13	BR-14	BR-15	BR-16	BR-17
Existing Type	Ford-Cr.	Bailey	Bailey	Bailey	Bailey	Bailey	Bailey	Bailey	Bailey	Bailey	Bailey	Bailey	Bailey	Bailey	Bailey	Ford-Cr.	Bailey
Length (m)	-	31	15	13	9	9	24	9	8	28	31	30	25	70	233	-	37
Proposed Type	2Lane-Br	2Lane-Br	2Lane-Br	2Lane-Br	2Lane-Br	2Lane-Br	2Lane-Br	2Lane-Br	2Lane-Br	2Lane-Br	2Lane-Br	2Lane-Br	2Lane-Br	2Lane-Br	2Lane-Br	2Lane-Br	2Lane-Br
Length (m)	150	32	16	14	10	10	26	10	10	30	32	32	26	72	234	100	38
No. of Spans	6	2	1	1	1	1	1	1	1	2	2	2	1	3	10	4	2

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

THE FEASIBILITY STUDY ON THE RURAL ROAD NETWORK DEVELOPMENT PROJECT IN THE REPUBLIC OF THE PHILIPPINES	PRESENT CONDITION AND PROPOSED IMPROVEMENT	Scale 1:50,000	Drawing No. 26

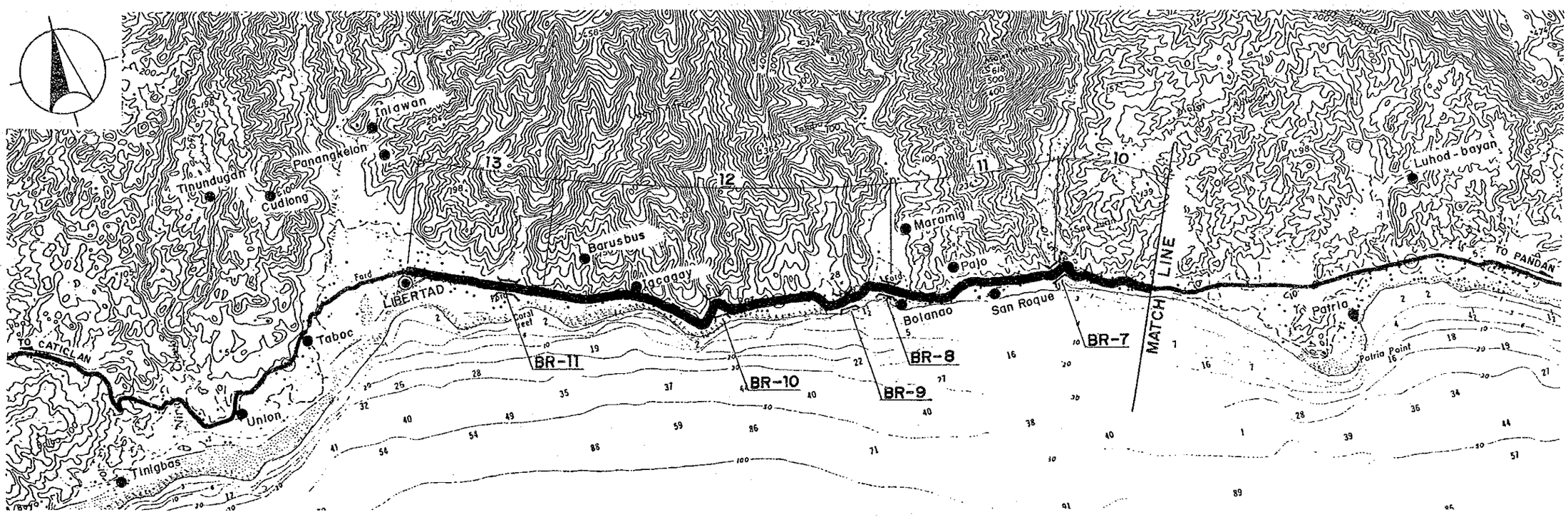
Road No: N12-1 Road Name: PANDAN-LIBERTAD ROAD
Location : PANDAN & LIBERTAD, ANTIQUE



Road Classification	Secondary Major (National Road)								
Total Length	22.7 km								
Sub-section No.	1	2	3	4	5	6	7	8	9
Length (km)	1.2	.9	3.3	.7	.9	1.0	.6	2.2	2.0
Terrain	Flat	Flat	Flat	Flat	Rolling	Flat	Flat	Flat	Flat
Existing Road Surface	4.5-GRV (Fair)	4.0-GRV (Fair)	4.0-GRV (Fair)	3.6-GRV (Bad)	4.0-GRV (Bad)	4.0-GRV (Bad)	6.0-GRV (Fair)	5.5-GRV (Bad)	4.5-GRV (Fair)
Proposed Improvement									
Improvement Type	Widening	Widening	Widening	Rehabil.	Rehabil.	Rehabil.	Rehabil.	Rehabil.	Widening
Surface Type	Gravel	Gravel	Gravel	Gravel	Gravel	Gravel	Gravel	Gravel	Gravel
Carriageway Width(m)	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
Shoulder Width (m)	1.0	1.0	1.0	1.0	.5	1.0	1.0	1.0	1.0
Ref. Typical Section	TYPE 4-4	TYPE 4-4	TYPE 4-4	TYPE 1-6	TYPE 1-6	TYPE 1-6	TYPE 1-6	TYPE 1-6	TYPE 4-4
Special Treatment									
Steep Section Length	-	-	-	-	200	-	-	-	-
Bridge No.	BR-1	BR-2	BR-3	BR-4	BR-5	BR-6			
Existing Type	Concrete	Concrete	Concrete	Concrete	Concrete	Concrete			
Length (m)	22	39	21	21	19	12			
Proposed Type	-	-	-	-	-	-			
Length (m)	-	-	-	-	-	-			
No. of Spans	-	-	-	-	-	-			

THE FEASIBILITY STUDY ON THE RURAL ROAD NETWORK DEVELOPMENT PROJECT IN THE REPUBLIC OF THE PHILIPPINES	PRESENT CONDITION AND PROPOSED IMPROVEMENT	Scale 1:50,000	Drawing No. 27

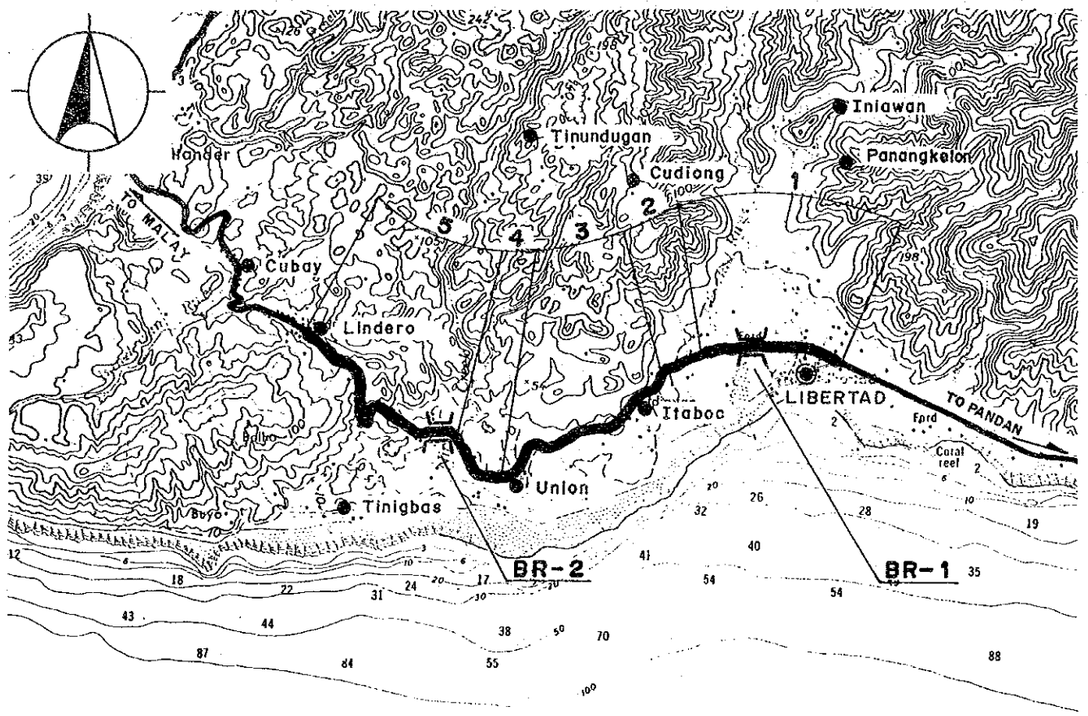
Road No: N12-1 Road Name: PANDAN-LIBERTAD ROAD
Location : PANDAN & LIBERTAD, ANTIQUE



Road Classification	Secondary Major (National Road)				
Total Length	22.7 km				
Sub-section No.	10	11	12	13	
Length (km)	1.3	2.3	4.6	1.7	
Terrain	Rolling	Rolling	Flat	Flat	
Existing Road Surface	4.0-GRV (Fair)	4.5-GRV (Bad)	4.0-GRV (Fair)	5.0-GRV (Fair)	
Proposed Improvement					
Improvement Type	Widening	Rehabil.	Widening	Widening	
Surface Type	Gravel	Gravel	Gravel	Gravel	
Carriageway Width(m)	6.0	6.0	6.0	6.0	
Shoulder Width (m)	.5	.5	1.0	1.0	
Ref. Typical Section	TYPE 4-4	TYPE 1-6	TYPE 4-4	TYPE 4-4	
Special Treatment					
Steep Section Length	-	100	-	-	
Bridge No.	BR-7	BR-8	BR-9	BR-10	BR-11
Existing Type	Concrete	Concrete	Concrete	Concrete	Concrete
Length (m)	37	37	12	21	19
Proposed Type	-	-	-	-	-
Length (m)	-	-	-	-	-
No. of Spans	-	-	-	-	-

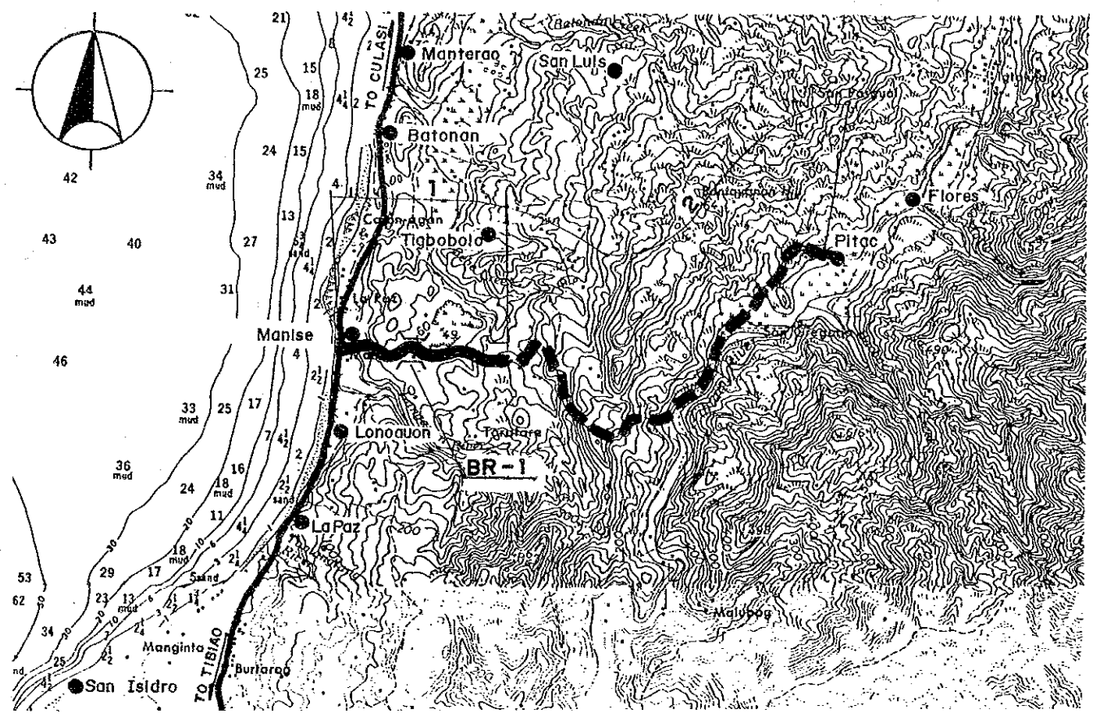
THE FEASIBILITY STUDY ON THE RURAL ROAD NETWORK DEVELOPMENT PROJECT IN THE REPUBLIC OF THE PHILIPPINES	PRESENT CONDITION AND PROPOSED IMPROVEMENT	Scale 1:50,000	Drawing No. 28

Road No: N12-2 Road Name: LIBERTAD-LINDERO ROAD
Location : LIBERTAD, ANTIQUE



Road Classification	Secondary Major (National Road)				
Total Length	6.5 km				
Sub-section No.	1	2	3	4	5
Length (km)	1.1	.4	2.0	.8	2.2
Terrain	Flat	Flat	Rolling	Flat	Rolling
Existing Road Surface	4.5-GRV (Fair)	4.0-GRV (Bad)	4.0-GRV (Fair)	4.0-GRV (Fair)	3.2-GRV (Bad)
Proposed Improvement					
Improvement Type	Widening	Rehabil.	Widening	Widening	Rehabil.
Surface Type	Gravel	Gravel	Gravel	Gravel	Gravel
Carriageway Width(m)	6.0	6.0	6.0	6.0	6.0
Shoulder Width (m)	1.0	1.0	.5	1.0	.5
Ref. Typical Section	TYPE 4-4	TYPE 1-6	TYPE 4-4	TYPE 4-4	TYPE 1-6
Bridge No.	BR-1	BR-2			
Existing Type	Concrete	Concrete			
Length (m)	60	20			
Proposed Type	-	-			
Length (m)	-	-			
No. of Spans	-	-			

Road No: B16-3 Road Name: BALAC-BALAC-FLORES ROAD
Location : CULASI, ANTIQUE



Road Classification	Second'y Major Rd (Barangay Road)	
Total Length	6.0 km	
Sub-section No.	1	2
Length (km)	1.5	4.5
Terrain	Flat	Mt'nous
Existing Road Surface	2.8-GRV (Bad)	Non Existing
Proposed Improvement		
Improvement Type	Rehabil.	New Con.
Surface Type	Gravel	Gravel
Carriageway Width(m)	6.0	6.0
Shoulder Width (m)	1.0	.5
Ref. Typical Section	TYPE 1-6	TYPE 5-4
Special Treatment		
Flood Section Length	400	-
Height	1.0	-
Bridge No.	BR-1	
Existing Type	Ford-Cr.	
Length (m)	-	
Proposed Type	2Lane-Br	
Length (m)	100	
No. of Spans	4	