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REPUBLIC OF THE PHILIPPINES

MINISTRY OF PUBLIC HIGHWAYS

MANILA

BICOL RIVER BASIN DEVELOPMENT PROJECTS SECONDARY & FEEDER ROADS

CAMARINES SUR

PACKAGE II

MONTHLY CONSTRUCTION REPORT

RECEIVED
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INTEGRATED PHILCONSULT INC.
CONSULTING ENGINEERS
PHILIPPINES

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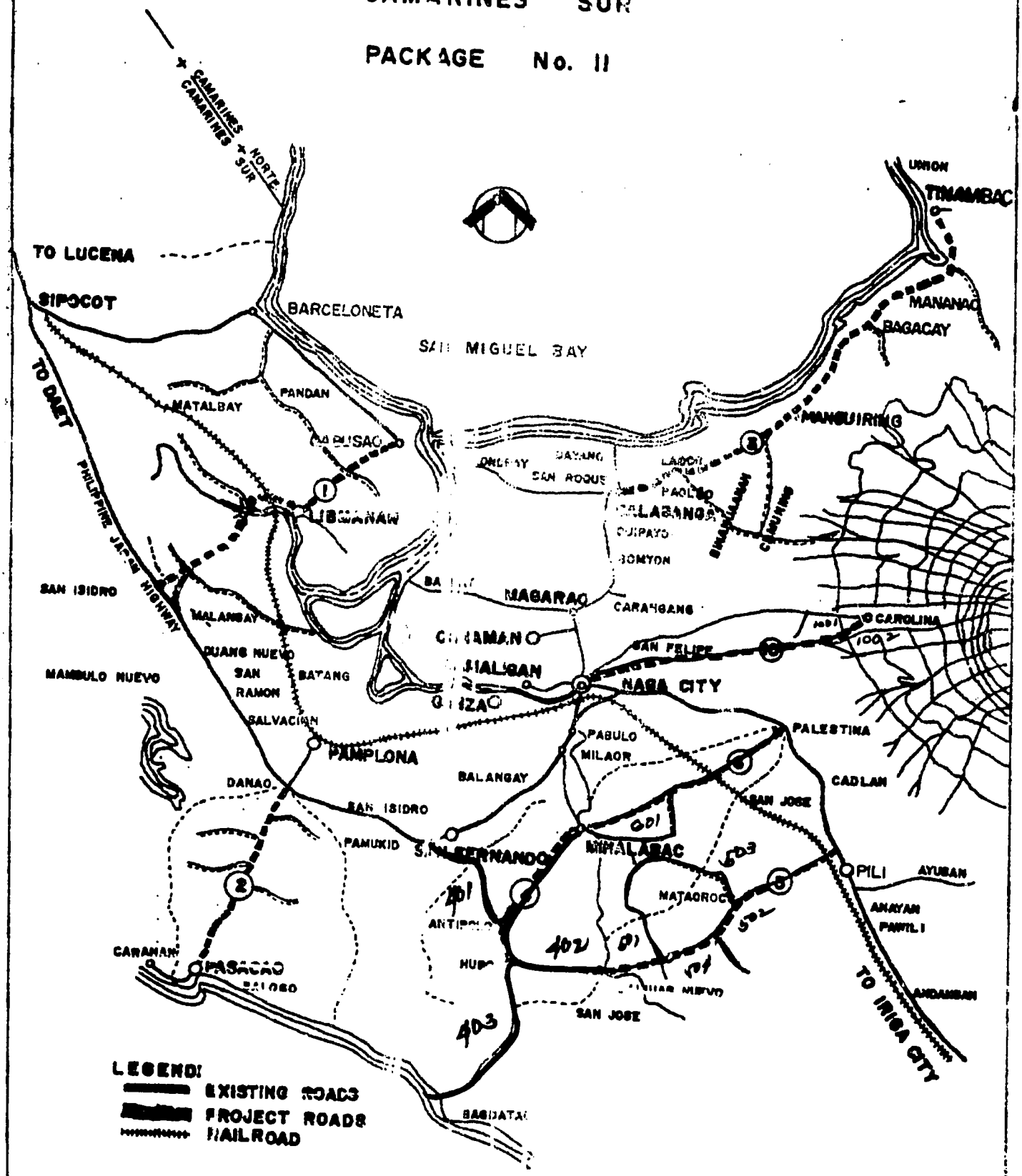
FIGURE 1

BICOL RIVER BASIN DEVELOPMENT PROJECT

SECONDARY AND FEEDER ROADS

CAMARINES SUR

PACKAGE No. II



LOCATION PLAN

Bicol River Basin Development Project
Secondary and Feeder Road

PACKAGE II

MONTHLY CONSTRUCTION REPORT

No. 26

Minalabac-Antipolo-Hubo Road Project
Sub-Project No. 4

Prepared by:

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Submitted by:

For: ALADO E. BANDELARIA
Deputy Project Manager

PROGRESS REPORT NO. 26
March, 1981

PROJECT: MINALABAC-ANTIPOLO-HUBO ROAD PROJECT
Sub-Project No. 4
Under Contract by: Polytrade Construction, Inc.

1. GENERAL

This project consists of the construction of:

a. Minalabac-Antipolo-Hubo secondary road, from the beginning of the project at the municipality of Minalabac, Camarines Sur, Sta. 0 + 000, to the barrio of Hubo, Minalabac, the end of the project at Sta. 8 + 838.94, or a length of 8.83894 kilometers.

b. Antipolo-Lupi-San Fernando feeder road no. 401, Sta. 0 + 088 to Sta. 5 + 136.53, or a length of 5.12853.

c. Hubo-Baliwag Nuevo feeder road no. 402, Sta. 0 + 002.00 to Sta. 2 + 620.44 or a length of 2.61844 kms.

d. Hubo-Bagolatao feeder road no. 403
Sta. 0 + 000 to Sta. 7 + 661.74, or a length of 7.661 kms.

The total of the project is 24.24765 kms.

2. WORK PROGRESS

Asphalt paving was in progress during the month. Asphaltic materials keep coming in by trailer and about 160 drums of Hot Asphalt have been delivered at campsite to date. This is in addition to previous deliveries. About 6,100 sg.m. of item 314, Asphalt cement for BST (Hot Asphalt Type) have been completed this month or a total of 14,640 sg.m. since the start of the asphalting work. Work is going on smoothly with good

weather conditions prevailing. Progress of work is quite satisfactory.

On feeder roads, the contractor continued delivery of item 107 and 108 for feeder road no. 402 (Hubo-Baliwag).

Also the contractor continued construction of Headwalls for RC pipes already installed.

San Fernando trestle bridge is still temporarily suspended this month due to unavailability of lumber materials. The contractor, however, has assured that work on this trestle will be resumed very soon.

General Percentage of Work Accomplished:

1. Minalabac-Antipolo-Hubo Secondary Road - - 56.95%
2. #401 - Antipolo-Lupi-San Fernando - - - - 11.73%
3. #402 - Hubo-Baliwag Road - - - - - - - - - - 8.19%
4. #403 - Hubo-Bagolatao - - - - - - - - - - - - 14.34%

Total - - - - - - 91.21%

A. Secondary Road

(1) Minalabac-Ant ipolo-Hubo Road, Sta. 0 + 000 to Sta. 8 + 836.94

Sub-grade - - - - - - - 8.031 kms.

Subbase - - - - - - - -7.50 kms.

Base Course - - - - -3.7 kms.

B. Feeder Roads

(1) Antipolo-Lupi-San Fernando (#401)

Sta. 0 + 000 - Sta. 5 + 136.53

Subgrade- - - - - - - - - - 5.120 kms.

Subbase - - - - - - - - - - 4.30 kms.

(2) Hubo-Baliwag (#402) Sta. 0 + 000 - Sta. 2 + 620.44

Subgrade - - - - - - - - - - 2.606 kms.

Subbase - - - - - - - - - - 1.20 kms.

(3) Hubo-Bagolatao (#403), Sta. 0 + 000 to Sta. 7 + 661.74

Subgrade - - - - - - - - - - 7.648 kms.

Subbase - - - - - - - - - - 6.25 kms.

SUMMARY OF PHYSICAL ACCOMPLISHMENTS

As of March 25, 1961

a) Roads

	Secondary Road	Feeder Roads
Subgrade	8.031 kms.	15.70 kms.
Subbase	7.50 kms.	11.50 kms.
Base	3.7 kms.	None
Pavement	16,470 sq.m. (Asphalt Item 314)	None

*The surfacing of feeder roads will be the subbase itself, Item 103.

b) Bridges

Sub-structures: Abutment A&B on reinforced concrete Pile Bent and Center pier on concrete Bearing Piles

Superstructure: 37.20 L.M. (Completed)

COMMENT AND RECOMMENDATION

Change order nos. 3 and 4 have been processed and ready for submittal to the PMO for consideration and approval.

Change order no. 3 calls for construction of additional grouted riprap.

Change order no. 4 calls for construction of 2 barrel Box Culvert to replace one line of 48"Ø RC pipe, restoration of typhoon damages, replacement and addition of RC pipes which were not in the plan and actually needed to suit actual field conditions.

As soon as said change orders are approved, work on said changes will start immediately.

ACTIVITIES DURING THE MONTH (Feb. 26, - March 25, 1981)

Secondary Road Minalabac-Antipolo-Hubo

Item 107 - Common Borrow

No activity

Item 108 - Subbase material

Compacting and regrading from Sta. 1 + 300 - Sta. 1 + 800

Item 200 - Gravel Base Course

Hauling, spreading, and compacting from Sta. 1 + 800 - Sta. 1 + 875

Item 302 - Medium cut-back asphalt, Grade MC for Prime Coat

Delivered - - - 31 metric tons

Per Kilometer - 6.1 metric tons.

Item 314-3 85 - 100 penetration asphalt cement for BST (Hot Asphalt Type)

Delivered - - 65 metric tons

Per kilometer - -18.3 metric tons

Item 405-A Concrete Structure

Bridges:

Balogo and Mata bridge both have been completed and opened for traffic

Box Culverts:

Single barrel - Sta. 6 + 461.00

completed - 1-2.40m x 1.00m x 12m

Double barrels - Sta. 6 + 923.00

completed - 2-1.80m x 2.10m x 13m

Item 413- RCP/Headwall

No activity

Item 510 - Road-right-of-way Markers

No activity

FEEDER ROADS

#401 - Antipolo-Lupi-San Fernando

Excavation and concreting of RCP's headwalls (see accomplishments for the month from the list of RCP of the above Feeder).

#402 - Hubo-Baliwag Road

1. Stockpiling and hauling of Item 107 (Common borrow) from Stations 1 + 800 to Sta. 2 + 410
2. Spreading and compacting from Sta. 1 + 300 to Sta. 2 + 200
3. Regrading and checking of elevations

#403 - Hubo-Bagolatao

no activity

STATUS OF LABORATORY TESTS

Project: Sub-Project No. 4, Package II, Secondary Road, Lindalabao, Camarines Sur

MATERIALS	Total estimated quant.	No. of Tests required	No. of Tests On file	Balance
105: Roadway and Drainage excavation	15,500 cu.m.	D - 52 C,G,&P - 11	D-52 C,G,& P-11	None None
106: Excav. for structure	700 cu.m.	D - 3 C,G,& P - 1	D - 3 C,G,&P-1	None None
107: Common Borrow	102,450cu.m.	D-342 C,G,P-69	D-318 C,G &P-69	D-24 None
108: Agg. Subbase Course	25,700cu.m.	C-19 D,G & P-86	C-17 D,G & P-71	C-2 D,G & P-15
110: Foundation Fill	50.00 cu.m.	D - 1 C,G,&P - 1	D - 1 C,G &P -1	None None
200: Agg. Base Course	7,500 cu.m.	D - 50 C,G & P-25 Q - 1	D - 21 C,G&P-19 Q - 1 Abrassion Specific Gravity Abrassion	D - 29 C,G&P - 6 None
302: Medium curing Cut-back asphalt Grade MC. Bit. Prime Coat	51 M.T.	Q - 5	Q - 5	None
314-3: 85-100 penet. cement for BST (Hot Asphalt Type)	102 M.T.	Q - 10	Q - 5	Q - 5
402-2.5: Pre-cast Concrete piles	396 L.M.	PTC - 1		PTC-1
405: Conc. Class "A"	338 cu.m.	#6	#6	None
Cement	4,831 bags	Q-3 or PTC	Q - 3	None
Fine Agg.	294cu.m.	Q-1; G-4	Q-1, G-1	None
Coarse Agg.	376cu.m.	Q-1, G-6	Q-1, G-6	None
Water		Cert.	Cert.	None
406: Reinf. Steel	25,765 kgs.	Q-1 ea.size	Q-1 ea.size	None
413: Reinf. Conc.pipes				
0.60M	276 L.M.	IR - 11	IR - 11	
0.90M	96 L.M.	IR-4	IR - 4	
1.20 M	55 L.M.	IR - 3	IR - 3	
500: Grouted riprap	190 cu.m.	IR	-	IR
510: ROW Markers	154 ea.	IR	-	IR

STATUS OF LABORATORY TESTS

Project: Minalabac Feeder #401 - Antipolo-Lupi-San Fernando

MATERIALS	Total estimated quantities	No. of tests required	No. of tests On file	Balance
105: Rdway & Drainage Excavation	13,700cu.m.	D-50 C,G & P-1	D-288 C,G,&P -7	None
106: Excavation for structure	530 cu.m.	D - 1 C,G, &P -1	D - 1 C,G,& P-1	None
107: Common borrow	21,020cu.m.	D - 70 C,G & P-21	D - 98 C,G & P-20	None
108: Agg. subbase Course	7,200cu.m.	D - 48 C,G,P - 24	D - 52 C,G &P-28	None
110: Foundation Fill	40 cu. .	D - 1 C,G & P - 1	D - 1 C,G&P-1	None
401: Timber trestle	4 span	IR		IR
402-2.5: Pre-cast concrete piles	168 L.M.	#1 or PTC	PTC 1	None
402-2.5a: Conc. test	1 ea.	#1 ot PTC	PTC - 1	None
413: Reinf. Conc. pipes				
0.60m	6 LM	#1 - IR - 1	#1	IR - 1
0.90M	16 LM	#1 - IR - 2	#1	IR - 3
1.20M	57 LM	#1 - IR - 8	#1	IR - 8
406: Reinf. Steel		0-1 ea.size	0-1 ea.size	None
510: ROW Markers	166 ea.	IR	-	IR

Note: Additional field and laboratory tests were conducted for Item 105 due to change (order) in volume from the principal quantity.

STATUS OF LABORATORY TESTS

Project: Sub-Project No. 4, Hubo-Baliwag Road #402

MATERIALS	Total estimated quantities	Minimum of test required	No. of Tests On file	Balance
106: Excavation for structures	200cu.m.	D - 1 C,G&P-1	- -	D - 1 C,G&P-1
107: Common borrow	23,690cu.m.	D - 79 C,G&P-16	D - 72 C,G&P-16	D - 7 None
108: Agg. subbase	3,100cu.m.	D - 21 C,G&P-11	D - 10 C,G&P -2	D - 11 C,G & P - 9
110: Foundation Fill	20 cu.m.	D - 1 C,G&P-1	-	D - 1 C,G & P - 1
413: Reinf. concrete pipes				
0.60M	38 LM	#1,IR-2	#1-1	IR - 2
0.90 .M	82 LM	#2,IR-	# - 2	IR - 4
510: ROW	60 ea.	IR-1		IR-1

STATUS OF LABORATORY TESTS

Project: Sub-Project No. 4, #403, Hubo-Magolatao

MATERIALS	Total estimated quantities	Minimum No. of test req.	No. of tests On file	No. of tests Balance
105: Rdway and Drainage Excavation	74,720cu.m	D - 249 C,G&P-50	D - 249 C,G&P-40	None C,G&P - 10
106: Excavation for structures	570cu.m.	D - 2 C,G&P-1	- -	D - 2 C,G& P - 1
108: Agg. Subbase	9,350cu.m.	D - 62 C,G&P-31	D - 49 C,G,P-27	D - 13 C,G& P-4
110: Foundation Fill	35 cu.m.	D - 1 C,G&P-1	- -	D - 1 C,G & P-1
413: Reinforced concrete pipes				
0.60M	92 LM	#1-IR-2	# - 1	# - 1-IR-2
0.90M	150 LM	#3-IR-6	# - 2	# - 1-IR-6
1.20M	130 LM	#4 IR-6	# - 3	# - 1-IR-6
466: Reinforced Steel		0-1 size	0-1 ea. size	None
510: ROW Markers		IR	-	IR

COMPRESSIVE STRENGTH (Secondary Road)

Date Sampled	Part of Structures represented	Compressive Strength for 28 days	REMARKS
1-18-79	RCP .60" Ø	3440	Satisfactory
-do-	-do-	2870	Failed
-do-	-do-	3070	Satisfactory
1-22-79	RCP .90"Ø	3232	-do-
-do-	-do-	3241	-do-
-do-	-do-	2561	Failed
2-3-79	RCP .90"Ø	3077	Satisfactory
-do-	-do-	3672	-do-
-do-	-do-	3345	-do-
2-12-79	RCP .60"Ø	4161	Satisfactory
-do-	-do-	3675	-do-
-do-	-do-	3444	-do-
2-21-79	RCP .60"Ø	3907	-do-
-do-	-do-	3703	-do-
-do-	-do-	3553	-do-
3-11-79	RCP .60"Ø	2674	Failed
-do-	-do-	3001	Satisfactory
-do-	-do-	3271	-do-
7-4-79	RCBC Botto Slab	4360	Passed
-do-	-do-	3078	-do-
7-9-79	RCBC Sidewall	3073	-do-
-do-	-do-	2494	Failed*
-do-	-do-	3016	Passed
-do-	-do-	4382	Passed
7-16-79	Top Slab	3187	Passed
-do-	-do-	2783	Failed *
-do-	Center wall	3825	Passed
-do-	-do-	2581	Failed*
8-31-79	RCBC Sidewall	3895	Passed
-do-	-do-	4447	Passed
9-1-79	-do-	3838	Passed
-do-	-do-	4097	Passed
9-22-79	RCBC Top Slab	3195	Passed
-do-	-do-	3135	Passed
10-18-79	Sidewall	2480	Failed*
-do-	-do-	2534	Failed*
-do-	-do-	3141	Passed
10-25-80	RCBC Top Slab	3281	Passed
-do-	-do-	2728	Failed*
-do-	-do-	3576	Passed
11-3-79	RCP 1.20"Ø	2421	Failed*
11-10-79	-do-	2922	Failed*
11-21-79	-do-	2309	Failed*
11-26-79	RCP .60"Ø	3055	Passed
-do-	-do-	2340	Failed*
11-28-79	-do-	3506	Passed
-do-	-do-	3397	Passed
11-21-79	RCBC Wingwall	3506	Passed

11-21-79	RCBC Wingwall	4089	Passed
11-26-79	RCBC APRON	2822	Failed*
-do-	-do-	2962	Failed*
11-28-79	RCBC Wingwall	3630	Passed
-do-	-do-	3640	Passed
4-14-80	Pier, Balogo Bridge	3801	Passed compressive
-do-	-do-	3677	strength required
-do-	-do-	1842	-do-
3-25-80	Coping Abut, A	3094	-do-
-do-	-do-	3172	-do-
3-31-80	Coping, Abut. B	3545	-do-
-do-	-do-	2814	-do-
3-27-80	Backwall, Abut. A	2367	Failure*
-do-	-do-	1943	Failure*
-do-	-do-	2457	Failure*
4-21-80	Coping AbutB, Mata Bridge	2806	Failure*
-do-	-do-	2612	
-do-	-do-	3055	
4-22-80	Backwall, Abut.B,Mata Br.	2783	Passed compressive
-do-	-do-	3055	strength required
-do-	-do-	3358	-do-
5-3-80	Girder, Balogo Bridge	3529	-do-
-do-	-do-	2861	-do-
-do-	-do-	3327	-do-

Compressive Strength (Feeder Road Nos. 401, 402, 403)

7-16-79	RCP 36"Ø	4664	Passed
-do-	-do-	4567	Passed
8-17-79	RCP 24"Ø	2736	Failed*
-do-	-do-	2994	Failed*
8-18-79	RCP 36"Ø	3763	Passed
-do-	-do-	4555	Passed
8-30-79	-do-	4224	Passed

*Necessary corrections/adjustments have been made to attain the required compressive strength.

DRAINAGE & EROSION WORK

Secondary Road (Binalabac-Antipolo-Mabo)

STATION	AS SCHEDULED		ACCOMPLISHED			Headwall
	Size	No. of pcs.	Size	No. of pcs.	No. of LM	
Sta. 0 + 450	24"Ø	14	-			
Sta. 0 + 690	24"Ø	16	-			
Sta. 0 + 987.52	24"Ø	13	-			
Sta. 1 + 047.67	48"Ø	18	48"Ø	18	18LM	w/ headwall
Sta. 1 + 170.52	48"Ø	18	48"Ø	18	18LM	-do-
Sta. 1 + 475.00	36"Ø	18	36"Ø	18	18LM	-do-
Sta. 1 + 875.00	24"Ø	17	36"Ø	17	17LM	-do-
Sta. 2 + 143.00	24"Ø	18	24"Ø	18	18LM	-do-
Sta. 2 + 652.12	24"Ø	13	24"Ø	13	13LM	-do-
Sta. 2 + 853.72	24"Ø	15	24"Ø	15	15LM	-do-
Sta. 2 + 900.00	24"Ø	14	24"Ø	14	14LM	-do-
Sta. 3 + 111.44	36"Ø	15	36"Ø	15	15LM	-do-
Sta. 3 + 339.45	24"Ø	12	24"Ø	12	12LM	-do-
Sta. 3 + 325.00	-	-	36"Ø	12	12LM	-do-
Sta. 3 + 787.00	36"Ø	13	36"Ø	13	13LM	-do-
Sta. 3 + 910	36"Ø	13	36"Ø	13	13LM	-do-
Sta. 4 + 144.13	24"Ø	13	24"Ø	13	13LM	-do-
Sta. 4 + 369.02	24"Ø	13	24"Ø	13	13LM	-do-
Sta. 4 + 854.15	-	-	24"Ø	13	13LM	-do-
Sta. 4 + 925.00	36"Ø	15	36"Ø	15	15LM	-do-
Sta. 5 + 183.15	-	-	24"Ø	12	12LM	-do-
Sta. 6 + 225.00	24"Ø	16	24"Ø	16	16LM	-do-
Sta. 6 + 425.00	24"Ø	15	24"Ø	15	15LM	-do-
Sta. 6 + 677.00	24"Ø	15	24"Ø	15	15LM	-do-
Sta. 6 + 755.30	36"Ø	16	36"Ø	16	16LM	-do-
Sta. 7 + 250.00	48"Ø	18	48"Ø	18	18LM	-do-
Sta. 8 + 055.00	24"Ø	14	24"Ø	14	14LM	-do-
Sta. 8 + 066.00	36"Ø	15	36"Ø	15	15LM	-do-
Sta. 8 + 072.30	24"Ø	15	24"Ø	15	15LM	-do-
Sta. 8 + 222.00	24"Ø	13	24"Ø	13	13LM	-do-
Sta. 8 + 459.00	24"Ø	12	24"Ø	12	12LM	-do-
Sta. 8 + 650.00	24"Ø	14	24"Ø	14	14LM	-do-

FEEDER ROAD #401 - Antipolo-Lubi-San Fernando

STA TION	AS SCHEDULED		ACCOMPLISHED			Headwall
	Size	No. of pcs.	Size	No. of pcs	No. of LM	
0 + 175	24"Ø	12	24"Ø	12	12LM	w/ Headwall
0 + 425	36"Ø	11	36"Ø	11	11LM	w/ excavation
0 + 713	48"Ø	34	48"Ø	34-2 lines	34LM	-do-
1 + 075	48"Ø	19	48"Ø	19	19LM	w/ headwall
1 + 357	36"Ø	12	36"Ø	12	12LM	w/ excavation
1 + 850.87	48"Ø	22	48"Ø	22-2lines	22LM	-do-
2 + 051	36"Ø	12	36"Ø	12	12LM	-do-
2 + 326.60	36"Ø	22	36"Ø	22-2lines	22LM	-do-
2 + 539.50	48"Ø	10	48"Ø	10	10LM	w/ headwall
2 + 675	48"Ø	30	48"Ø	30-2lines	30LM	w/ excavation
3 + 055.5	48"Ø	11	48"Ø	11	11LM	w/ excavation
3 + 325	48"Ø	24	48"Ø	24-2lines	24LM	w/ excavation
3 + 675	48"Ø	24	48"Ø	24-2lines	24LM	-do-
4 + 848	48"Ø	13	48"Ø	13	13LM	w/ headwalls
4 + 087.45	48"Ø	7	48"Ø	7(extended)	7LM	w/ excavation
4 + 244.70	18"Ø	6	18"Ø	6(extended)	6LM	-do-
4 + 590	24"Ø	4	24"Ø	4(extended)	4LM	w/ headwalls

FEEDER ROAD #402 - Hubo-Balivag

STATION	AS SCHEDULED			ACCOMPLISHED			Headwall
	Size	No. of pcs.		Size	No. of pcs	No. of LM	
0 + 373.80	36"Ø	22		36"Ø	22-2 lines	22LM	-
0 + 846.30	36"Ø	36		36"Ø	36-3lines	36LM	-
0 + 968.00	36"Ø	12		36"Ø	12	12LM	-
1 + 202.30	24"Ø	12		24"Ø	12	12LM	-
1 + 598.00	24"Ø	12		24"Ø	12	12LM	-
1 + 970.10	24"Ø	12		24"Ø	12	12LM	-
2 + 125	-	-		24"Ø	12	12LM	-
2 + 323.00	36"Ø	12		36"Ø	12	12LM	-
2 + 403.54	Existing	1-30	X	25M	RCP to remain		-
2 + 550.00	24"Ø	14		24"Ø	14	14LM	-

FEEDER ROAD 4103 - Hubo-Ba[illegible]tao

STATION	AS SCHEDULED		ACCOMPLISHED			Headwall
	Size	No. of pcs.	Size	No. of pcs.	No. of LM	
0 + 137.00	48"Ø	30	48"Ø	30 - 2lines	30LM	-
0 + 300.00	36"Ø	16	48"Ø	16	16LM	-
0 + 506.01	24"Ø	4	D E L E T E D		-	-
0 + 825.00	48"Ø	22	48"Ø	26-2lines	26LM	-
1 + 143.80	48"Ø	34	D E L E T E D TO BE REPLACED BY RCBC			
1 + 200.00	24"Ø	11	24"Ø	11	11LM	-
1 + 400.00	36"Ø	6	36"Ø	6	6LM	-
1 + 604.20	36"Ø	12	36"Ø	12	12LM	-
1 + 791.34	48"Ø	16	48"Ø	10	10LM	-
	Note: On this station, 1+791.34, the contractor had already delivered 12 pcs. of 48"Ø but two (2) pieces were damaged by typhoon.					
1 + 939.00	48"Ø	14	48"Ø	10	10LM	bal. 4 pcs.
1 + 992.11	36"Ø	12	36"Ø	12	12LM	-
4 + 593.68	36"Ø	17	36"Ø	16	16LM	bal. 1 pc.
5 + 097.00	36"Ø	15	36"Ø	14	14LM	bal. 1 pc.
5 + 299.48	24"Ø	11	24"Ø	11	11LM	-
5 + 759.68	36"Ø	13	36"Ø	13	13LM	-
6 + 050.00	36"Ø	16	D E L E T E D		-	-
6 + 315.00	36"Ø	17	36"Ø	16	16LM	bal. 1 pc.
6 + 523.00	36"Ø	22	36"Ø	22	22LM	-

WEATHER REPORT

Project: Minalabac-Antipolo-Hubo Road,
Sub-Project No. 4, Package II

DATE	WEATHER	REMARKS	Time Extensions Recommended
Feb.26'81	Fair	Workable	None
27	Fair	Workable	None
28	Fair	Workable	None
Mar. 1'81	Fair	Workable	None
2	Fair	Workable	None
3	Fair	Workable	None
4	Fair	Workable	None
5	Fair	Workable	None
6	Fair	Workable	None
7	Fair	Workable	None
8	Fair	Workable	None
9	Fair	Workable	None
10	Fair	Workable	None
11	Fair	Workable	None
12	Fair	Workable	None
13	Cloudy to Fair	Workable	None
14	Fair	Workable	None
15	Fair to cloudy	Workable	None
16	Cloudy w/PM light shower	Workable	None
17	Fair	Workable	None
18	Fair	Workable	None
19	Fair	Workable	None
20	Fair	Workable	None
21	Cloudy to fair	Workable	None
22	Fair	Workable	None
23	Fair	Workable	None
24	Cloudy w/ light shower	Workable	None
25	Fair	Workable	None

TOTAL EXTENSIONS OF TIME RECOMMENDED THIS MONTH - - - None
TOTAL EXTENSIONS OF TIME RECOMMENDED PREVIOUSLY - - - 168 days
GRAND TOTAL - - - - - 168 days

BICOL RIVER BASIN DEVELOPMENT PROJECT OFFICE
San Jose, Pili, Camarines Sur

EMPLOYMENT GENERATION SURVEY (S83)

NAME OF CONTRACTOR POLYTRADE CONSTRUCTION, INC.

FOR THE MONTH OF March, 1981

	ADMINISTRATIVE/ FINANCE	ENGINEERING/ TECHNICAL	SKILLED	UNSKILLED
MANILA-BASED 1/	2	2	4	
LOCAL-HIRED 2/	9	5	26	13
SUB-CONTRACTORS 3/				
T O T A L	11	7	30	13

1/ Includes permanent employees

2/ Employees residing within the Basin Area

3/ Local Hired only

Submitted by:

(SGD.) MILAGROS A. NORBERTO
Project Engineer
Minalabac-Antipolo-Hubo Road Project

POLITRADE CONSTRUCTION, INC.
Minalabac, Camarines Sur

LIST OF PERSONNEL

Name	Position	Qualification
Perez, Teodoro	Project Manager	Civil Engineer
Espeso, Leonardo	Project Supervisor	Civil Engineer
Sauco, Rego	Shop Supervisor	Experienced
Cruz, Nestor	Adm. Officer	B S B A
Manueal Aguila	C.E. Draftsman	Civil Engineer
Perpetuo, Avila	Lab. Technician	Experienced
Reyes, Efren	Comptroller	-do-
Tragante, Frisco	Watchman	-do-
Pellosis, Eduardo	-do-	-do-
Asis, Leoncio	-do-	-do-
Luna, Freddie	Mechanic	-do-
Caisip, Rogelio	-do-	-do-
Leon, Luis de	Lab. Aide	-do-
Adao, Numeriano	Driver	-do-
Balong, Rodelio	-do-	-do-
Balonzo, Jolito	BD Operatpr	-do-
Francisco, Graciano	Loader Operator	-do-

BICOL RIVER BASIN DEVELOPMENT PROGRAMME OFFICE
San Jose, Pili, Camarines Sur

EMPLOYMENT GENERATION SURVEY(SS3)

NAME OF CONTRACTOR GENARO G. REYES CONSTRUCTION, INC.

FOR THE MONTH OF March, 1981

	ADMINISTRATIVE/ FINANCE	ENGINEERING/ TECHNICAL	SKILLED	UNSKILLED
MANILA-BASED 1/		10	13	3
LOCAL-HIRED 2/		2	4	17
SUB-CONTRACTORS 3/				
T O T A L		12	17	20

1/ Includes permanent employee

2/ Employees residing within the basin area

3/ Local Hired only

Submitted by:

(SGD.) ANTONIO BANZON
Project Engineer

/ched

GENARO G. REYES CONSTRUCTION
Minalabac, Camarines Sur

LIST OF PERSONNEL

Name	POSITION	Qualification
Antonio Banzon	Project Manager	Civil Engineer
Roger Gonzales	Project Engineer	-do-
Marcos Galban	Roadway Foreman	Experienced
Maximo Mendoza	Structural Foreman	-do-
Menita Avila	Comptroller	-do-
Armando Bidania	Instrument Man	-do-
Vilma Pancito	Clerk/Typist	-do-
Susan Ovenza	Property Costudian	-do-
Bong Bidania	Survey Aide	-do-
Rolando Dacusan	-do-	-do-
Dominador Sabado	BD Operator	-do-
Leonardo Valentin	BD Operator	-do-
Elpedio Mauricio	Loader Operator	-do-
Macario Lang-ay	Roller Operator	-do-
Bernardo Castillo	Roller Operator	-do-
Jose Canada	Driver	-do-
Ruben Jacobe	-do-	-do-
Ricardo Arevalo	-do-	-do-
Pedro Suyat	Overseer	-do-

Daniel Santiago	Equipment Helper	Experienced
Tacio Dulado	Mechanic	-do-
Wilfredo Ante	-do-	-do-
Felipe Tuazon	-do-	-do-
Pedro Renta	Laborer	-do-
Romeo Asada	-do-	-do-
Andres Pendeno	-do-	-do-
Jaime Mupili	-do-	-do-
Faustino Abundio	-do-	-do-

LIST OF HEAVY EQUIPMENTS

Secondary Road:

A. Bulldozer

1 unit D-6 Caterpillar

B. Dump Trucks

2 Ford (6-wheeler)

1 Isuzu (6-wheelers)

C. Loader

1 Isuzu Loader

D. Grader

1 unit Caterpillar

E. Rollers

1 Pneumatic Roller

2 Tandems

F. Water Truck

1 unit on top of 6 wheeler truck

G. Asphalted distributor

Feeder Roads:

A. Dump Truck

1 unit 10-wheeler Isuzu

2 units 6-wheeler Isuzu

B. Roller

1 Tandem

1 Pneumatic Roller

C. Loader

1 unit Caterpillar

D. Grader

1 unit Caterpillar

E. 1 unit Poclain

LIST OF OFFICE EQUIPMENT

Typewrite 19" carriage (ADLER)	1	ea.
Wooden Office Desk	3	pcs.
Simple wooden chair	5	pcs.
Typing Table	1	pc.
Drafting Table	1	pc.

LIST OF LABORATORY EQUIPMENT

8 - inch Brass Mess 4"	1	pc.
8 - inch Brass Mesh 3"	1	pc.
8 - inch Brass Mesh 2"	1	pc.
8 - inch Brass Mesh 1½"	1	pc.
8 - inch Brass Mesh 3/4"	1	pc.
8 - inch Brass Mesh 3/8"	1	pc.
8 - inch Brass Mesh No. 8	1	pc.
8 - inch Brass Mesh No. 18	1	pc.
8 - inch Brass Mesh No. 16	1	pc.
8 - inch Brass Mesh No. 30	1	pc.
8 - inch Brass Mesh No. 40	1	pc.
8 - inch Brass Mesh No. 50	1	pc.

8 - inch Brass Mesh No. 60	1	pc.
8 - inch Brass Mesh No. 100	1	pc.
8 - inch Brass Mesh No. 200	1	pc.
Sample Splitter 2½ Chute width	1	set
Heavy duty solution balance 20 kg. cap change M-1112D	1	set
Tripple Beam balance 0.1 sea	1	set
Volumetric Flask 500 ml.	1	set
Liquid Limit Device/grooving tool	1	set
Plastic Limit	1	set
Centrogram balance 0.01 sea	1	set
Rectangular pan 4" x 4" x 10"	1	pc.
Square pan 24" x 24"	1	pc.
Modified Compaction Mold 1/13.33	1	pc.
Modified Compaction Mold 10 lbs.	1	pc.
Modified Compaction Hammer 5.5 lbs.	1	pc.
Wash Bottle 1000 ml.	1	pc.
Field Density Set	1	pc.
Field Bucket	1	pc.
Oven, Electric Memmert #760190	1	unit
Harvard Trip Balance Ohause	1	set
8 - inch Brass Sieve No. 4	1	unit
Spring Balance 12 Kilos Cap.	1	unit
Compaction Mold 1/10 cu.ft.	1	set

Frying Pan 18" x 18"	6	pcs.
Wire Basket	1	pc.
Cylinder Mold	2	pcs.
8 - inch Sieve Brass Pan	1	pc.
8 - inch Pan Brass Cover w/ ring	1	pc.
Slump Cone w/ Tampering Rod	1	pc.
Work Table, 1.20 x 2.40m	1	ea.
Single wooden chair	5	pc.
Corenter w/ G.I. sink	1	set
Wooden filing cabinet	1	ea.
Stapler	1	ea.
Puncher	1	ea.

Note:

These laboratory equipments are now available at the project as per check and audit made by Engr. Sanares, Chief Quality Control Section, PMO, and representative of Auditor's Office on March 23 & 26, 1970 respectively.

ITEM NO.	DESCRIPTION
1·60·2	Provide and Maintain Office and Laboratory for the Engineer
1·60·3	Provide one (1) Unit Four Wheel Drive for the Engineer
1·60·4	Provide one (1) Unit Utility Vehicle for the Engineer
1·60·5	Laboratory and Office Equipment for the Engineer. (as listed)
100	Clearing and Grubbing
103-1 (Fr 401)	Removal of Bridge
105 (Sec.)	Roadway and Drainage Excavation
105 (Fr. 401,402)	Roadway and Drainage Excavation
105 (Fr. 403)	Roadway and Drainage Excavation
105-4	Excavation of Unsuitable Materials
106 (Sec.)	Excavation for Structures
106 (Fr. 401,402,403)	Excavation for Structures
107 (Sec.)	Borrow
107 (Fr. 401,402)	Borrow
108 (Sec)	Aggregate Sub-base
108 (Fr. 401,402,403)	Aggregate Sub-base
110	Foundation
111	Overhaul (300 m. Free haul)
200	Aggregate Base Course
302	Medium Curing Cut-Back Asphalt, Grade MC-1 for Bit. Prime Coat
314-1	Aggregate Material for B.S.T. (Hot Asphalt Type)
314-3	85-100 Penetration Asphalt Cement for B.S.T. (Hot Asphalt Type)
401 (Fr. 401)	Timber (Detour) Trestle (Superstructure only on Concrete Pile Bent)
402-2.5	Precast Concrete Piles
402-2.5a	Concrete Test Piles (Furnish and Drive)
403	Concrete Railings
405	Concrete Class "A" (Miscellaneous)
405-1(	Concrete Class "A" (Bridge)
405-1 (Fr. 401)	Concrete Class "A" (Bridge)
406 (Sec.)	Reinforcing Steel
406 (Fr. 401,402,403)	Reinforcing Steel
413-1 (Sec.)	0.30 M. Ø Reinforced Concrete Pipe
413-1 (Fr. 401)	0.30 M. Ø Reinforced Concrete Pipe
413-2	0.60 M. Ø Reinforced Concrete Pipe
413-3 (Sec)	0.90 M. Ø Reinforced Concrete Pipe
413-3 (Fr. 401,402,403)	0.90 M. Ø Reinforced Concrete Pipe
413-4	1.20 M. Ø Reinforced Concrete Pipe
500	Riprap and Grouted
510	Right-of-Way Markers
	TOTAL

NOTE

ORIGINAL EXPIRY DATE: AUG. 7, 1980
TENTATIVE EXPIRY DATE 1st. Revision: MARCH 16, 1981
SECOND REVISION: NOVEMBER 26, 1980

FEBRUARY 7, 1979
START OF CONTRACT TIME

ESTIMATED % WEIGHT						
SCHEDULED	ACCOMPLISHED PROJECT	ACCOMPLISHED ITEM	QUANTITY	UNIT COST	AMOUNT	
0.29910	0.29910	100	18 mos.	2,400.00	43,200.00	✓
0.49850	0.49850	100		Lump Sum	72,000.00	
0.22156	0.22155	100		Lump Sum	32,000.00	
0.49850	0.49850	100		Lump Sum	72,000.00	
0.86614	0.86614	100	27.8 Has.	4,500.00	125,100.00	✓
0.01765	0.01765	100	1 each	2,550.00	2,550.00	
2.14633	2.14633	100	15,500 cum.	20.00	310,000.00	
2.17845	2.17845	100	16,560 cum.	19.00	314,640.00	
9.25885	9.25885	100	83,580 cum.	16.00	1,337,280.00	
2.99944	2.99944	100	16,534.37 c.m.	26.201	433,217.00	✓
0.13290	0.13290	100	770 cu.m.	24.93	19,196.10	
0.19801	0.16573	83.70	1,300 cu.m.	22.00	28,600.00	
31.47323	30.93818	98.30	142,055 cum.	32.00	4,545,760.00	
11.80213	10.79895	91.50	54,635 cu.m.	31.20	1,704,612.00	
10.85831	10.06551	92.70	27,782 cu.m.	56.45	1,568,293.90	
7.37659	6.16535	83.58	19,730 cu.m.	54.00	1,065,420.00	
0.05019	0.04535	90.34	145 cum.	50.00	7,250.00	
0.04579	0.04580	100	22,050 sq.m.	0.30	6,615.00	
3.24545	1.97419	60.82	7,500 cu.m.	62.50	468,750.00	
0.84745	0.51017	60.20	51 M.T.	2,400.00	122,400.00	
0.48460	0.29176	60.20	700 cu.m.	100.00	70,000.00	
1.69490	1.02034	60.20	102 M.T.	2,400.00	244,800.00	
0.33233	-	-	4 SPANS	12,000.00	48,000.00	
1.94665	1.41574	72.72	396 L.M.	710.00	281,160.00	
0.37388	0.37387	100	4 each	13,500.00	54,000.00	
0.07446	0.07446	100	71.70 L.M.	150.00	10,755.00	
2.53425	1.34475	57.80	487 cum.	690.00	336,030.00	
0.88027	0.88027	100	163 cu.m.	780.00	127,140.00	
0.07202	-	-	14 cum.	743.00	10,402.00	
1.21304	1.21302	99.99	25,765 kgs.	6.80	175,202.00	
0.18853	0.00043	0.23	[illegible] kgs	7.00	27,230.00	
0.03212	-	-	29 L.M.	160.00	4,640.00	
0.00582	0.00582	100	6 L.M.	140.00	840.00	
0.86469	0.81454	94.20	362 L.M.	345.00	124,890.00	
0.41209	0.63103	153.13	96 L.M.	620.00	59,520.00	
1.22058	1.05822	86.69	289 L.M.	610.00	176,290.00	
2.36165	2.00976	85.09	379 L.M.	900.00	341,100.00	
0.19732	0.19732	100	190 cum.	150.00	28,500.00	
0.50375	0.05057	16.64	914 L.M.	48.00	43,872.00	

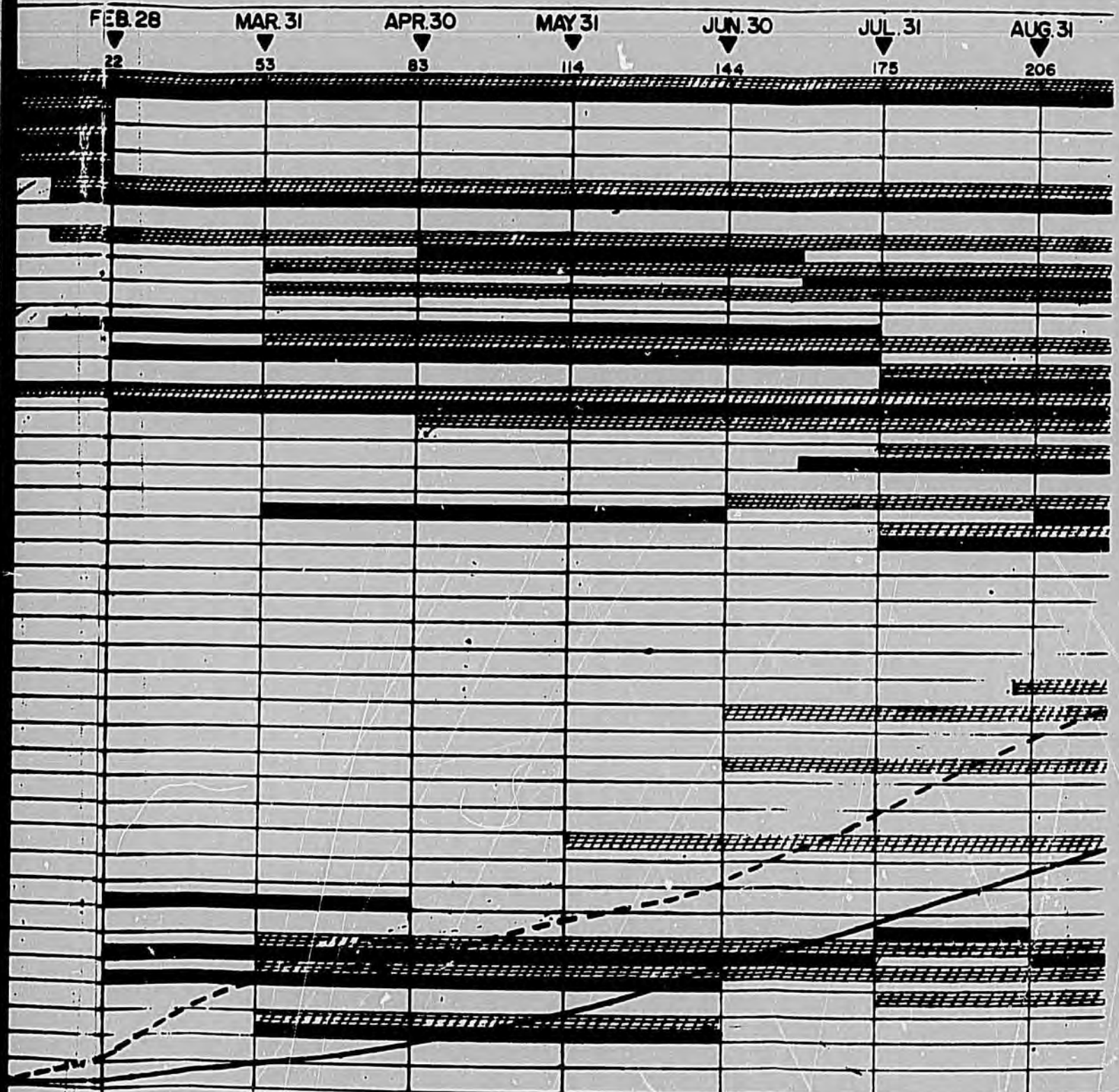
91.21 % as of March 25, 1981

MONTHLY ACCOMPLISHMENT ₱14,443,254.20

CUMULATIVE TOTAL AMOUNT 210,441.44

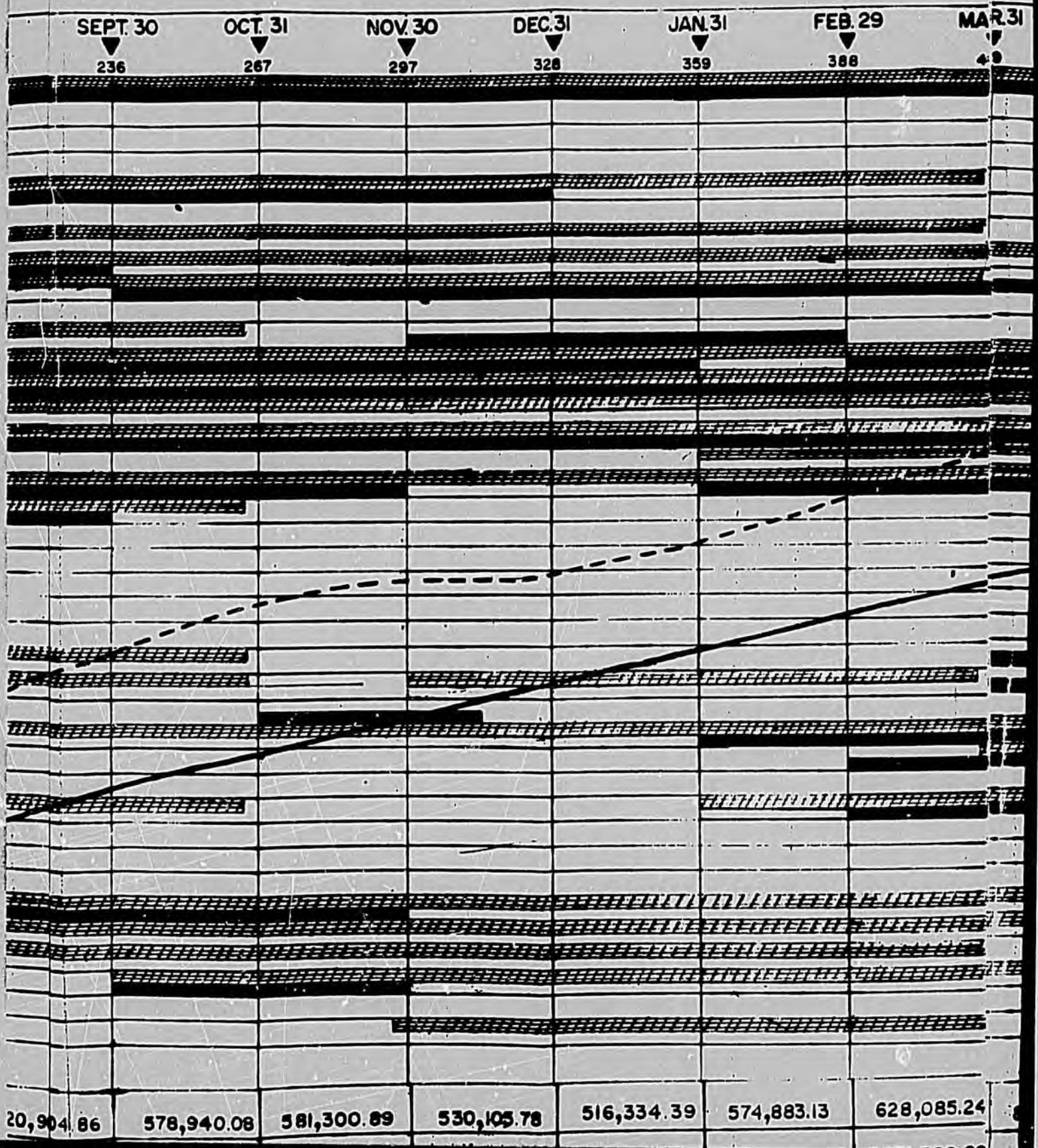
REVISED BAR SC

MIN



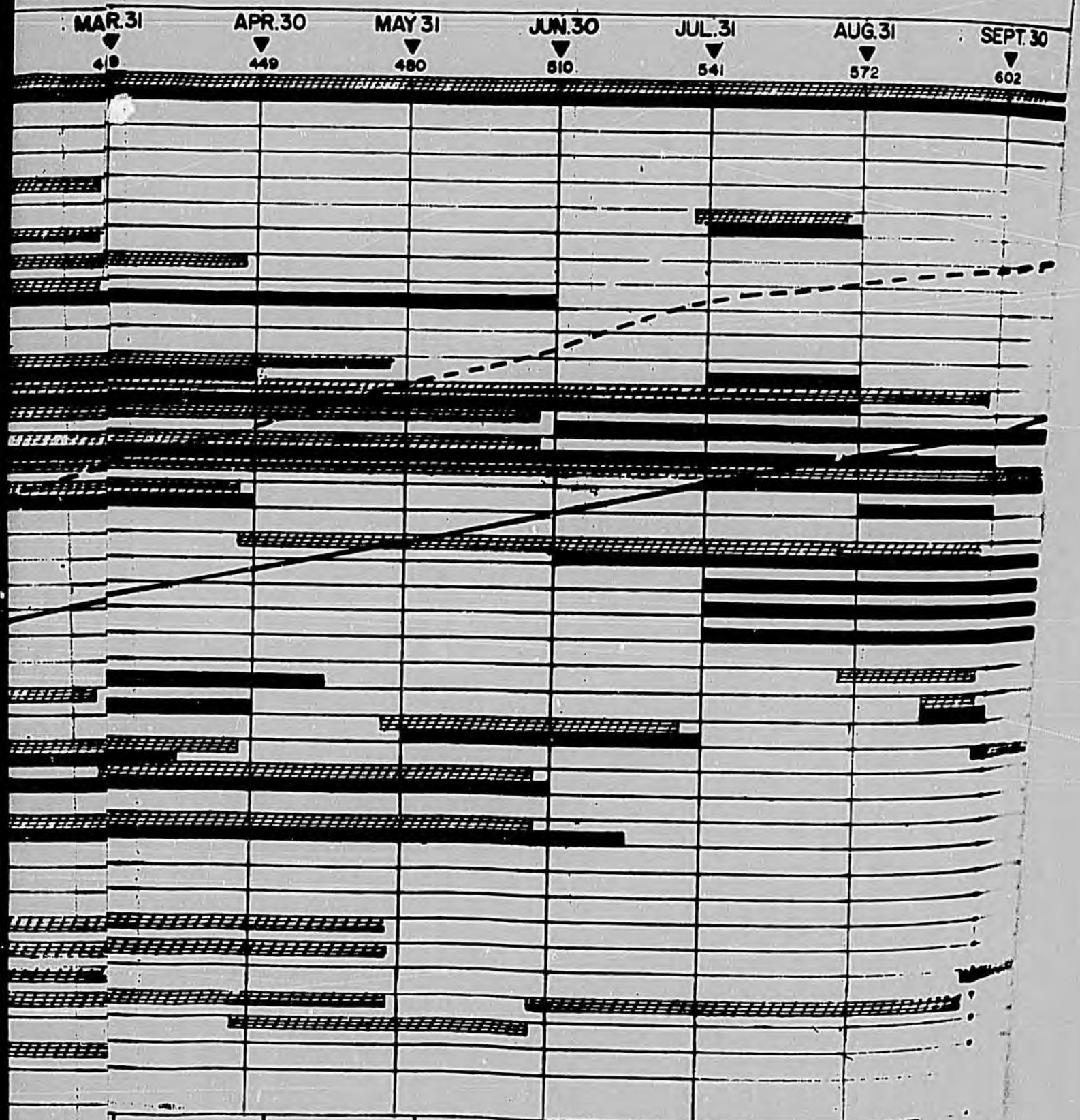
441.44	381,610.72	417,152.11	541,915.52	538,831.99	543,417.62	507,585.25	520,9
	592,052.16	1,008,20427	1,551,119.79	2,089,951.78	2,633,369.40	3,140,954.65	3,661,

CHEDULE OF WORK AS OF NOVEMB
OF
NALABAC-ANTIPOLO-HUBO ROAD

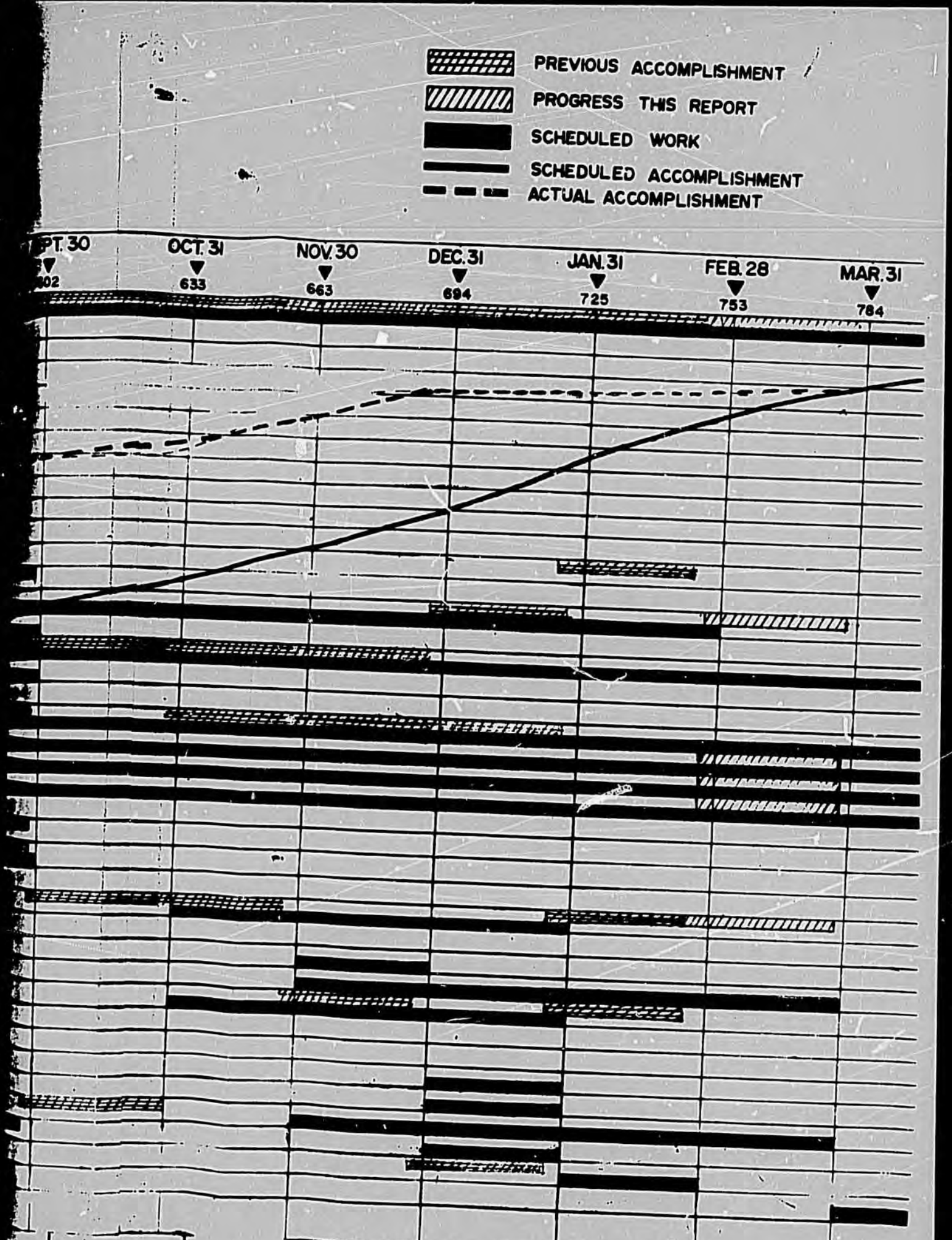


VEMBER 26, 1980

AD

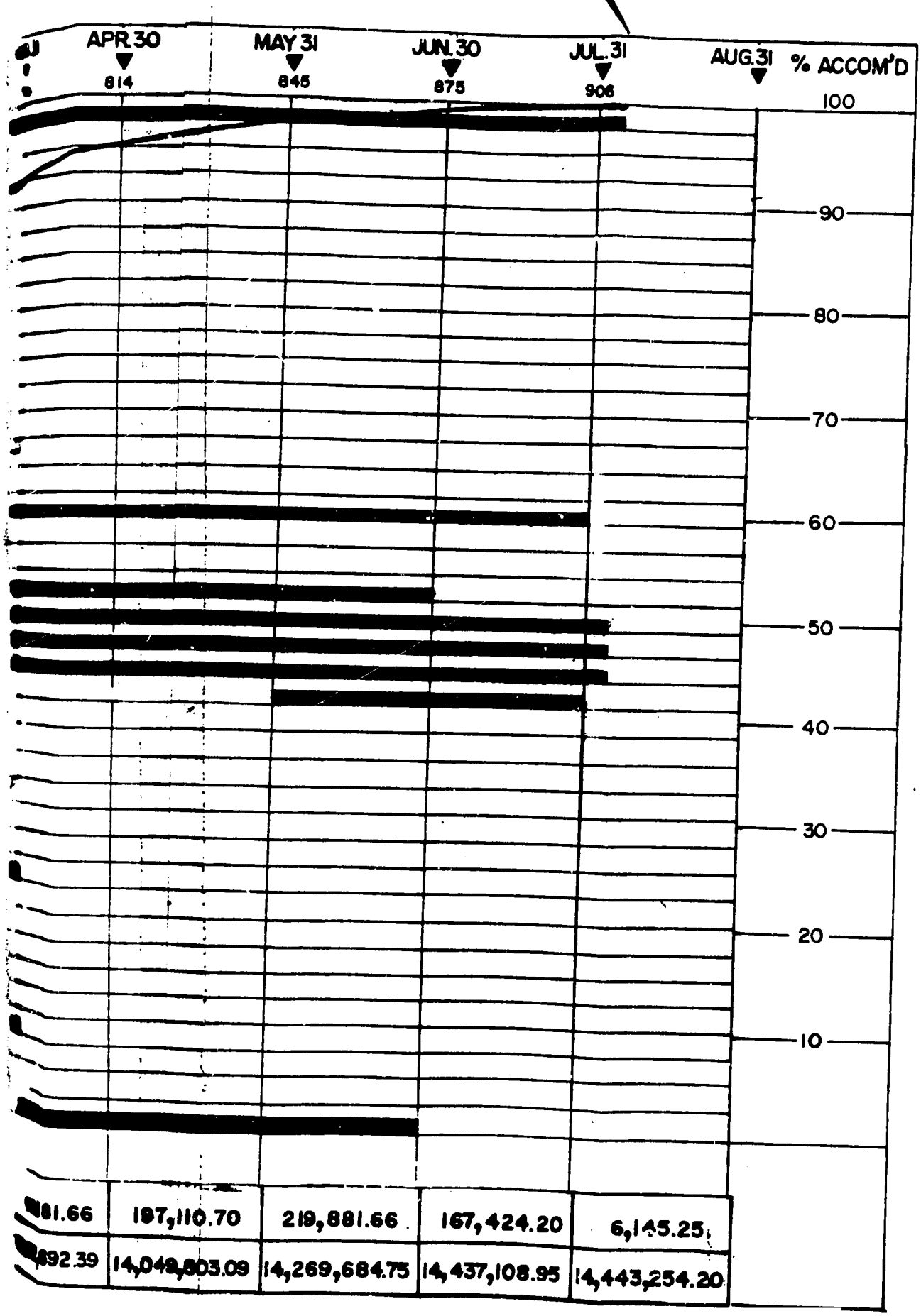


28,085.24	820,997.64	656,874.10	566,179.54	627,688.24	745,402.37	504,678.34
071,509.02	7,892,506.66	8,549,380.76	9,115,560.30	9,743,248.54	10,488,650.91	10,993,329.25



34	378,024.24	447,968.22	524,283.76	596,512.44	468,521.6	247,171.20	195,8
25	11,828,353.49	11,820,321.71	12,344,605.47	12,941,117.91	13,409,639.	13,656,810.73	13,852

AUGUST 5, 1981
TENTATIVE EXPIRY DATE 2nd Revision



81.66	197,110.70	219,881.66	167,424.20	6,145.25
692.39	14,048,803.09	14,269,684.75	14,437,108.95	14,443,254.20

BICOL RIVER BAS
(ROAD

MANPOWER SCHEDULE OF CONSULTA
PAC

NAMES	POSITION	1979									
		1	2	3	4	5	6	7	8	9	10
		FEB	MAR	APR	MAY	JUN	JUL	AUG	SEPT	OCT	NOV
AMADO E. BANDELARIA	DEPUTY PROJECT MGR.										
E.C. FORTALEZA	SR. HIGHWAY ENGINEER *										
A.F. CUISON	SR. BRIDGE ENGR./R.E.										
M.D. LACSAMANA	SR. LOC. ENGR.										
J.A. TORRALBA	SR. MATLS ENGR/R.E.										
F. C. ROSALES	ADM. OFFICER										
L. P. JOSE	CLERK TYPIST										
T. S. SABABAN	MES'R JANITOR										

SUB-PROJECT NO. 4, M

J.A. TORRALBA	SR. MATLS ENGR./R.E.						(I	N	C	L	U
	ENGR. INSP. (HWY.)										
	ENGR. INSP. (BRIDGE)										
C. C. ORTIZ	MATLS ENGR.										
ARTURO E. BANDELARIA	SURVEYOR / DRAFTSMAN										
A.M. ABUGA	LAB. TECHNICIAN										
M.L. SANTIANO	CLERK / TYPIST										
G. LABUTAP	JANITOR / MESSENGER										
R.M. ABANTE	LABORER										

* EFFECTIVE OCTOBER 16, 1980

ASIN DEVELOPMENT PROJECT
AD COMPONENTS)

TANT'S STAFF FOR CONSTRUCTION SUPERVISION

ACKAGE II

1980															1981								
10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	MEN
OV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEPT	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	MONTHS
																						30
																						30
																						30
																						30
																						30
																						30
																						30
																						30
SUB-TOTAL																						240

MINALABAC-ANTIPOLO-HUBO ROAD

D		IN		KEY		STAFF)																30
																						30
																						18
																						30
																						30
																						30
																						30
																						30
																						30
SUB-TOTAL																						258

Bicol River Basin Development Project
Secondary and Feeder Roads

PACKAGE II

Pili-Hatacroc Road Project

Sub-Project No. 5

Monthly Construction Report

No. 31

Prepared by:

DANILO V. PILIO
Hwy. Inspector Engr.

Submitted by:

AMADO E. BANDILARIA
Deputy Project Manager

PROGRESS REPORT NO. 31

March, 1981

PROJECT: PILI-MATAOROC ROAD PROJECT (Secondary & Feeder Roads)
Sub-Project No. 5

I. GENERAL:

This project consists of the construction of the following:

1. Secondary Road - 8.938 kms. from sta. 0+000 to sta 9 + 144.70. This road begins from the end of the 2 km. concrete road intersecting with the Manila South Road at about ½ km from Pili, going to Naga. Its end is at Baliwag Viejo, Minalabac Camarines Sur, a barrio dependent on water transportation via Bicol River before this project came to reality. As per plan, the entire Secondary Road shall be asphalted with 6.10 meters wide pavement. Drainage structures consist of RCP's of different sizes at different stations, one (1) span 10m RCDG at sta 3+398.71 and 4 - 0.80 x 0.80 M RCBC's.

2. Mataoroc-Manapao-Baliwag, Feeder Road 501 -7.135 kms., from sta 0+003.05 to sta 7+246.63. The beginning of the project is at sta 1+950 of the Secondary Road and ends at the end of same Secondary Road. A gravel road surface 4.00m wide with 1.00m shoulders is to be done which traverses mostly ricefields. This Feeder road has the most number of drainage structures which consist of RCP's of different sizes at different stations, two-three span; one (1) single span; and one-17 span timber trestle bridges.

3. Sagrada-San Isidro, Feeder Road 502 - 2.056 kms., from sta. 0+029.05 to sta 2+084.96 with its beginning at sta 3 + 572 of the Secondary Road and ends at barrio San Isidro, Bula, Camarines Sur, joining with another road project. A gravel road surface 4.00m wide with 1.00m shoulder is to be done which traverses ricefields. This feeder road has five lines of RCP's, 1 - 0.80 x 0.80m RCBC and 1-3 span timber trestle bridge.

4. Manapao-Malitbog, Feeder Road 503 - 1.518 kms., from sta 0+077.04 to sta 1+594.75 with its beginning at sta 3+884 of Feeder Road 501 and is the only road that does not join with another road project although its end is adjacent to one. A gravel road surface 4.00m wide with 1.00m shoulders is to be constructed which passes through ricefields. Drainage structures consist of RCP's of different sizes at different stations and 1-0.80 x 0.80m and 2.10 RCBC's.

5. San Jose-San Ramon, Feeder Road 504 - 1.961 kms., from sta 0+114.09 to sta 1+993.27 with its beginning at sta 6+710 at the Secondary Road and ends at Barrio San Ramon, Bula, Camarines Sur, joining with another Road Project. A gravel road surface 4.00m wide with 1.00m shoulders is to be constructed which also passes through ricefields. Drainage structures consist of RCP's of different sizes at different stations, 1-0.80 x 0.80 RCBC and 1-2 span timber trestle bridge.

II. PROGRESS

Overall progress this month is very low. The only activity is in the framework for headwall at Feeder Road No. 501. Work accomplished to date is 93.11345% with a time elapsed of 96.49122%.

R O A D	% Accomplished to date
1. Secondary Road	45.31%
2. Mataoroc-Manapao-Baliwag, FR 501	32.11
3. Manapao-San Isidro, FR 502	5.24%
4. Manapao-Malitbog, FR 503	5.11%
5. San Jose-San Ramon, FR 504	4.75%

I. General (Secondary and Feeder Roads)

The following are included in this Report; List of Contractor's Personnel (Annex A), List of Construction Equipment (Annex B), List of Laboratory and Office Equipment (Annex C), Employment Generation Survey, Weather Report, Manpower or List of Personnel of the Engineer (Consultants) and Location Map of the Project.

II. a Roads, Bridges and Drainage Structures

(Secondary Road)

Construction Survey

No activity during the month.

Earthwork

No activity during the month.

Subbase & base

No activity during the month.

Surfacing

No activity during the month.

Structures

No activity during the month.

Physical Accomplishment

a. roads

subgrade - 8.980 km
subbase - 8.200 km
base - 5.365 km

b. bridges

sub-structures- 10 LM RC
abut on RC piles

superstructure- 1 span
10 LM RCDG

Drainage & Erosion Works

The following pipes have been installed as of 25, 1981.

SIZE	RCP Installed (L.m.)			Remarks
0	Prev.Mo.	This Month	Total	
0.30	104.40	-	104.40	
0.46	114.00	-	114.00	
0.61	62.40	-	62.40	
0.91	214.80	-	214.80	
1.20	90.00	-	90.00	

STATION	NUMBER	SIZE	LENGTH
0 + 552.00	5	0.30M	6.00m
1 + 013.37	12	0.30M	14.40m
1 + 376.30	10	0.30M	12.00m
7 + 010.00	11	0.30M	13.20m
7 + 525.00	11	0.30M	13.20m
8 + 210.00	11	0.30M	13.20m
8 + 812.00	13	0.30M	15.60m
8 + 955.25	14	0.30M	16.80m
Total	87		104.40M

2 + 912.00	10	0.46M	12.00m
4 + 535.00	10	0.46M	12.00m
4 + 825.00	10	0.46M	12.00m
6 + 100.00	9	0.46M	10.80m
6 + 315.00	11	0.46M	13.20M
7 + 275.00	11	0.46M	13.20m
7 + 407.00	11	0.46M	13.20m
7 + 850.00	12	0.46M	14.40m
8 + 010.00	11	0.46M	13.20m
Total	95		114.00M

0 + 100.00	10	0.61M	12.00m
0 + 300.00	10	0.61M	12.00m
1 + 625.00	10	0.61M	12.00m
3 + 100.00	10	0.61M	12.00m
3 + 525.00	12	0.61M	14.40m
Total	52		62.40M

STATION	NUMBER	SIZE	LENGTH
0 + 750.00	10	0.91m	12.00m
1 + 107.39	10	0.91m	12.00m
1 + 236.70	10	0.91m	12.00m
1 + 993.10	8	0.91m	9.60m
2 + 103.42	10	0.91m	12.00m
2 + 358.52	10	0.91m	12.00m
4 + 700.00	10	0.91m	12.00m
5 + 175.00	14	0.91m	16.80m
5 + 350.00 2@	12	0.91m 2@	14.40m
5 + 425.00	10	0.91m	12.00m
6 + 950.00	11	0.91m	13.20m
7 + 475.00	14	0.91m	16.80m
8 + 475.00 2@	13	0.91m 2@	15.60m
7 + 710.00	12	0.91m	14.40m
Total	179		214.80m

2 + 760.00	12	1.20m	14.40m
5 + 000.00	11	1.20m	13.20m
6 + 625.00 2@	14	1.20m2@	16.80m
9 + 000.00 2@	12	1.20m2@	14.40m

6. <u>Materials Testing and Control</u>

ITEM NO	KIND OF TESTS	No. of Tests Prev.Mo.	This Mo.	Total
105-a	Grading	7	-	7
	PL & LL	7	-	7
	Compaction	7	-	7
	F. Density	-	-	-
105-b	Grading	2	-	2
	PL & LL	2	-	2
106	Grading	1	-	1
	PL & LL	1	-	1
	Compaction	1	-	1
	F. Density	1	-	1
107	Grading	100	-	100
	PL & LL	100	-	100
	Compaction	100	-	100
	F. Density	783	-	783
110	PL & LL	1	-	1
	Grading	1	-	1

200	PL & LL	23	-	23
	Grading	23	-	23
	Compaction	23	-	23
	F. Density	27	-	27
	Sp.Gravity	1	-	1
100	Grading	92	-	92
	PL & LL	92	-	92
	Compaction	92	-	92
	F. Density	252	-	252
402-2.5 (FA)	Grading	4	-	4
	Sp. Gravity	1	-	1
	Unit Wt.	1	-	1
402-2.5	Grading	4	-	4
	Sp. Gravity	1	-	1
	Unit Wt.	1	-	1
405 - A	Design Mix	2	-	2
405-2.3 (C.A.)	Grading	2	-	2
405-2.2 (F.A.)	Grading	2	-	2
405-C	Design Mix	2	-	2
413 (FA.A)	Grading	4	-	4
	Sp.Gravity	1	-	1
	Unit Wt.	1	-	1
413 (C.A.)	Grading	5	-	5
	Sp. Gravity	1	-	1
	Unit Wt.	1	-	1

Date	Location of Structure	Result after 28 days	Remarks
11-4-78	12" Ø RCP	3060	Passed
-do-	-do-	3450	-do-
-do-	-do-	3520	-do-
11-12-78	18" Ø RCP	3145	-do-
-do-	-do-	3415	-do-
11-18-78	36" Ø RCP	2871	Failure
-do-	-do-	3020	Passed
-do-	-do-	3350	Passed
11-24-78	R.C. Test Pile RCDG Sagrada Bridge	3560	Passed
-do-	-do-	3630	Passed
-do-	R.C. Test Pile, RCDG Mataoroc-Manapao Bridge	3680	Passed
-do-	-do-	3840	Passed
-do-	-do-	3920	Passed
11-25-78	24" Ø RCP	3090	Passed
-do-	-do-	3138	Passed
11-28-78	36" Ø RCP	3111	Passed
-do-	-do-	3334	-do-
12-16-78	48" Ø RCP	3377	-do-
-do-	-do-	3397	-do-
-do-	-do-	3425	-do-
12-18-78	18" Ø RCP	2970	Failure
-do-	-do-	3340	Passed
-do-	-do-	3481	Passed
12-19-78	36" Ø RCP	2614	Failure
-do-	-do-	3169	Passed
-do-	-do-	3457	Passed
12-20-78	48" Ø RCP	3410	Passed
-do-	-do-	3465	Passed
-do-	-do-	4020	Passed
2-12-79	36" Ø RCP	3195	-do-
-do-	-do-	3332	-do-
-do-	-do-	3411	-do-
2/15-79	48" Ø RCP	3000	-do-
-do-	-do-	3040	-do-
-do-	-do-	3087	-do-
2-16-79	12" Ø RCP	3010	-do-
-do-	-do-	3444	-do-
-do-	-do-	3516	-do-
3-13-79	RCP, RCDG, Sagrada Br.	3562	-do-
-do-	-do-	3843	-do-
-do-	-do-	4108	-do-

Date	Location of Structure	Result after 28 days	Remarks
3-13-79	24" Ø RCP	3.740	Passed
-do-	-do-	3,252	Passed
-do-	-do-	2,814	Failure
3-20-79	36" Ø RCP	3,452	Passed
-do-	-do-	3,149	Passed
-do-	-do-	3,432	Passed
3-23-79	48" Ø RCP	2,979	Failure
-do-	-do-	3,318	Passed
-do-	-do-	3,410	Passed
4-2-79	18" Ø RCP	3,065(15 days)	Passed
-do-	-do-	3,243 -do-	-do-
-do-	-do-	3,255 -do-	-do-
5-5-79	36" Ø RCP	3,106(12 days)	Satisfactory
-do-	-do-	3,420 -do-	Satisfacotry
-do-	-do-	3,516 -do-	Satisfactory
5-7-79	48" Ø RCP	3,296(33 days)	Satisfactory
-do-	-do-	2,748 -do-	Failure
5-9-79	18" Ø RCP	3,623	Satisfactory
5-12-79	36" Ø RCP	2,830	Failure
-do-	-do-	2,655	-do-
-do-	-do-	2,604	-do-
5-17-79	36" Ø RCP	2,892(23 days)	Satisfactory
-do-	-do-	2,970 Ave.2936	Satisfactory
-do-	-do-	2,946	-do-
5-19-79	12" Ø RCP	3,202(21 days)	Paseed
-do-	-do-	2,939 3028	Passed
-do-	-do-	2,892	strength requirement
6-7-79	Abutment "A" Sagrada Br.	3,382(32days)	Passed compressive
-do-	-do-	3,125 Ave.3,389	strength requirement
-do-	-do-	3,661	
6-23-79	Abutment A&B Sagrada Bridge	3,353 20 days	
-do-	Backwall & Wingwall	2,799 Ave.3,182	-do-
-do-	-do-	3,389	
7-10-79	36" Ø RCP	2,799 Ave.3,431	-do-
-do-	-do-	4,245	
-do-	-do-	3,167	
7-12-79	48" Ø RCP	3,856 (18 days)	
-do-	-do-	3,452 Ave. 3,825	-do-
-so-	-do-	4,167	
7-13-79	18" Ø RCP	2,892(14 days)	Satisfactory
-do-	-do-	2,923 Ave.2,853	for 23 days
-do-	-do-	2,744	
8-4-79	Item 405		
-do-	Sagrada Bridge	3,415	Passed compressive strength requirement
-do-	(Girders)		
8-4-79	Test Pile Fr #501		
-do-	TTr Br. sat 0+218 0+224	3,260	Passed compressive strength requirement

8-6-79	Test Pile Fr #501		
-do-	TTr Br. sta 1+367- 1+385	2,565	Failure
-do-	-do-		
8-10-79	Item 405		
-do-	Sagrda Bridge	3,295	Passed compressive strength requirement
-do-			
8-21-79	Sagrada Bridge		Passed compressive
-do-	Railing	3,439	strength requirement
-do-	-do-		
8-25-79	Test Pile for TbTe		
-do-	Sta 1+380 Fr 502	3,473	strength requirement
-do-	-do-		
8-28-79	RCBC, sta.4+000		
-do-	-do-	3,322	strength requirement
-do-			
9-1-79	Test Pile for TbTe		
-do-	Sta 1+433 Fr 504	3,485(55 days)	-do-
9-28-79	RCP, 0.91 M Ø		
-do-	-do-	3,156(27 days)	-do-
-do-	-do-		
10-12-79	RCP, 0.30M Ø		
-do-	-do-	3,195(13 days)	-do-
-do-	-do-		
10-12-79	RCP, 0.61M Ø	3,247(13 days)	-do-
10-15-79	RCP, 0.61M Ø		
-do-	-do-	3,021	satisfactory
-do-	-do-		
10-16-79	RCP, 0.30M Ø	3,060(9 days)	satisfactory
-do-	-do-		
11-7-79	RCP, 1.20M Ø	3,250(15 days	Passed compressive
-do-	-do-		
11-10-79	RCP, 0.46M Ø	3,174(12 days)	strength req.
-do-	-do-		strength req.
-do-	-do-		
11-11-79	RCP, 1.20M Ø		
-do-	-do-	3,212(11 days)	strength req.
-do-	-do-		
11-15-79	RCBC km. +417.50	3,107(19 days)	Passed compressive
-do-	F.D. 504 San Jose- San Ramon		
-do-	-do-		
11-22-79	Headwall, Km 6+950	2,830(12 days)	Passed compressive strength requirement for 28 days
11-23-79	Headwall, Km. 9+400	2,910(1day)	-do-
-do-	Secondary Road		
-do-	-do-		

12-6-79	RCBC Km. 5+975	3,133(36 days)	Passed compressive strength req.
-do-	Secondary Road		
-do-	-do-		
12-10-79	RCBC Km. 6+200	3,154(32 days)	Passed compressive strength req.
-do-	Secondary Road		
-do-	-do-		
12-11-79	18" Ø RCP	3,430(32 days)	-do-
-do-	-do-		
-do-	-do-		
12-12-79	48" Ø RCP	3,410(30 days)	-do-
-do-	-do-		
-do-	-do-		
1-7-80	Bearing Piles	3,260 (32 days)	
-do-	-do-		
-do-	-do-		
1-9-80	48" Ø RCP	3,366 (30 days)	
-do-	-do-		
-do-	-do-		
2-3-80	Bearing pile, km 1+404-442		Passed compressive strength requirement
-do-	FDR, # 504	Ave.3,369 (33 days)	
-do-			
3-3-80	Capping 3"-3, km.1+871-889		
-do-	FDR # 502	Ave.3,200 (30 days)	-do-
-do-			
3-4-80	Capping #1-4, km. 1+871-889		
-do-	FDR # 502	Ave.3,261 (28 days)	-do-
-do-			
3-5-80	Headwall, km. 1+993.10	Ave. 3,261 (28 days)	-do-
-do-	Secondary Road		
3-5-80	Wingwall, km. 4+000 Secondary Road	3,226 (28 days)	-do-
3-7-80	Headwall km. 0+050 FDR # 501	3,164 (26 days)	-do-
3-28-80	12" Ø RCP		
-do-	-do-	Ave.3,208 (13 days)	-do-
-do-	-do-		
3-25-80	Capping #1,2,4, km 1+424	Ave.3,299 (23 days)	-do-
-do-	FDR 504		
-do-			

3-28-80	Capping #3, km. 1+424	Ave.3,321	
-do-	FDR # 504	(20 days)	strength
-do-			requirement
3-28-80	Headwalls km. 3+158		
-do-	FDR # 501	Ave.3,321	strength
-do-		(20days)	requirement
3-31-80	Test pile, km.6+147.00		
-do-	FDR#501,Baliwag Side	Ave.3,190	-do-
-do-		(17 days)	
4-1-80	Test pile, km.6+045.00		
-do-	FDR # 501,Manapao side	Ave.3,210	
		(16 days)	-do-
4-12-80	Bearing pile, km.1+367.00		passed compressive
-do-	Fr 501	Ave.3249 (34 days)	strength requirement
-do-			
4-15-80	0.61, Ø RCP	Ave.3332 (31 days)	strength requirement
-do-			
-do-			
4-17-80	HW, km. 4+750.00	3203 (29 days)	-do-
4-23-80	HW, km. 2+257.00	Ave.3,057 (23 days)	-do-
-do-	Fr 501		
4-26-80	Capping, km. 0+224.00	Ave.3,146 (20days)	-do-
-do-	Fr 501		
-do-			
5-1-80	Headwall km. 0+750		
-do-	Fr 503	Ave.3,011 (15 days)	-do-
-do-	Fr 503		
5-3-80	Headwall km. 0+500	Ave.3,068 (13 days)	-do-
-do-	Fr 503		
-do-			
5-8-80	Bearing pile, km. 0+034.00	Ave.3,399	
	Fr 501	(33 days)	-do-
-do-	-do-	-do-	
-do-	-do-	-do-	
5-10-80	Pile Cap. km. 1+367.00	Ave.3791	
	Fr 501	(31 days)	-do-
-do-	-do-	-do-	
-do-	-do-	-do-	
5-16-80	Headwall km. 5+500.00	Ave.3099	
	Fr 501	(25 days)	
-do-	-do-	-do-	-do-
-do-	-do-	-do-	-do-

Additional this month

RCBC	1/7/10/80	Fr #504, sta. 0+301	8-18-80	69	3,623	Ave.		Passed compressive strength requirement
	2	- do- -do-	-do-	69	3,747	3,6415		
	3	- do- -do-	-do-	69	3,553	(22091 psi 28 days)		
RCBC	1	6/4/80 Fr#502 sta 0+493	-do-	65	3,480			
	2	- do - -do-	-do-	65	3,522	3,488		passed compressive strength requirement
	3	- do - -do-	-do-	65	3,439			
P.C.	1	7/11/80 Pile Bent 3 & 4 Fr 5/18/80			383,249			
	2	- do - # 501=Sta 6+045-6+147	-do-		383,397	3,314		-do-
	3	- do - -do-	-do-		383,296			-do-
P.C.	1/7/17/80	Pile Bent, Fr # 501 8-18-80			323,312			
	2	- do - Sta 6+045-6+147	-do-		323,133	3,224		-do-
	3	- do - -do-	-do-		323,226			

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II. b Roads, Bridges & Drainage Structures

(Mataoroc-Manapao-Daliwag, Feeder Road 501)

Construction Survey

No activity during the month.

Earthwork

No activity during the month

Subbase

No activity during the month.

Structures

No activity during the month.

Physcial Accomplishment

a. roads

subgrade - 6.790
subbase - 4.900
base
surfacing

b. bridges

substructure - 24 span 6 LM TbTe bridge on RC Abut
superstructure - 15 spans 6 LM TbTe br. on RC abut

Drainage & Erosion Works

The following pipes have been installed as of March 25, 1981

Size'	RCP Installed (LM) Prev.Mo.	This Mo.	Total
0.30	54.00	-	54.00
0.46	98.40	-	98.40
0.61	9.60	-	9.60
0.91	54.00	-	54.00
1.20	219 .60	-	219.60

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STATION	NUMBER	SIZE	LENGTH
1 + 727.00	8	0.30m	9.60 meters
2 + 147.00	6	0.30m	7.20 "
2 + 537.00	6	0.30m	7.20 "
2 + 650.00	6	0.30m	7.20 "
2 + 800.00	6	0.30m	7.20 "
4 + 495.00	13	0.30m	15.60 "
total	45		54.00
1 + 775.00	8	0.46m	9.60
3 + 749.50	4	0.46m	4.80
3 + 908.00	9	0.46m	10.80
4 + 140.00	9	0.46m	10.80
5 + 754.00	9	0.46m	10.80
6 + 320.00	13	0.46m	15.60
6 + 473.00	11	0.46m	13.20
7 + 084.00	10	0.46m	13.20
7 + 163.00	9	0.46m	10.80
total	82		98.40
2 + 013.00	8	0.61m	9.60m
0 + 650.00	9	0.91m	10.80m
1 + 550.00	10	0.91m	12.00m
3 + 150.00	9	0.91m	10.80
3 + 034.00	9	0.91m	10.80
4 + 750.00	8	0.91m	9.60
total	45		54.00"
0 + 840.00	11	1.20m	13.20m
1 + 114.50 2@	14	1.20 2@	16.80
2 + 257.00	10	1.20	12.00
2 + 440.00 2@	12	1.20 2@	14.40
5 + 500.00	9	1.20	10.80
5 + 703.20	10	1.20	12.00
5 + 821.40	10	1.20	12.00
6 + 000.00	9	1.20	10.80
6 + 713.00	9	1.20	10.80
6 + 800.00	10	1.20	12.00
7 + 050.00	10	1.20	12.00
6 + 200.00	10	1.20	12.00
6 + 410.00	11	1.20	12.00
6 + 588.00 2@	11	1.20 2@	18.20
total	183		219.60 m

Materials Testing and Control

Item	Kind of Test	Number of Test Prev.No.	This No.	Total
107	Grading	53	-	53
	PL & LL	53	-	53
	Compaction	53	-	53
	F. Density	249	-	249
105	Grading	1	-	1
	PL & LL	1	-	1
	Compaction	1	-	1
	F. Density	4	-	4
105-b	Grading	4	-	4
	PL & LL	4	-	4
	Grading	16	-	16
108	PL & LL	16	-	16
	Compaction	16	-	16
	F. Density	51	-	51
402-2.2	Grading	2	-	2
402-2.3	Grading			
	Design Mix	2	-	2
402-2.2	Grading		-	4
405-2.3	Grading	2	-	4

II. c Roads, Bridges & Drainage Structures

(Sagrada-San Isidro, Feeder Road No. 502)

Construction Survey

No activity during the month.

Earthwork

No activity during the month.

Subbase & base

No activity during the month.

Structures

No activity during the month.

Physical Accomplishment

a. roads

subgrade -2.037
subbase -1.800

base
surfacing

b. bridges

substructure - 3 span 6 LM TbTe bridge on RC abutment
superstructure-3 span 6 LM TbTe bridge on RC abut

Drainage & Erosion Works

The following pipes have been installed as of March 25, 1981.

SIZE	RCP Installed (LM) Prev.No.	This No.	Total
0.46	9.60	-	9.60
0.61	21.60	-	21.60
1.20	9.60	-	9.60

STATION	NUMBER	SIZE	LENGTH
0 + 616.00	8	0.46m	9.60m
0 + 050.00	10	0.61m	12.00m
1 + 146.00	8	0.61m	9.60
total	18		21.60
1 + 569.00 2@	8	1.20	9.60

Materials Testing & Control

Item No.	Kind of Test	No. of Test Prev.Mo.	This Mo.	Total
105-b	Grading	1	-	1
	LL & PL	1	-	1
107	Grading	12	-	12
	LL & PL	12	-	12
	Compaction	12	-	12
	F. Density	110	-	110
405-2.2 (FA)	Grading			3
405-2.3 (FA)	Grading			3
405 "B"	Design Mix	2	-	2
402-2.5	Test Pile Report	1	-	1
108	Grading	2	-	2
	PL & LL	2	-	2
	Compaction	6	-	6

II. d Roads, Bridges and Drainage Structures

(Manapao-Malitbog, Feeder Road No. 503)

Construction Survey

No activity during the month.

Earthwork

No activity during the month.

Subbase

No activity during the month.

Structures

No activity during the month.

Physical Accomplishment

a. roads

subgrade-1.493

subbase- 0.698

base

surfacing

b. bridges

substructure

superstructure

Drainage & Erosion Works

The following pipes have been installed as of March 25, 1981.

Size	RCP Installed (LM) Prev. Mo.	This Mo.	Total
0.46	24.00	-	24.00
0.61	32.40	-	32.40
0.91	10.80	-	10.80
1.20	21.60	-	21.60

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STATION	NUMBER	SIZE	LENGTH
0 + 500.00	9	0.61m	10.80m
0 + 775.00	9	0.61m	10.80m
0 + 552.00	9	0.61m	10.80m
total	27		32.40m
0 + 246.00	10	0.46m	12.00m
0 + 343.00	10	0.46m	12.00m
total	20		24.00m
0 + 000.00	9	0.91m	10.80m
0 + 927.00	9	1.20m	10.80m
0 + 106.00	9	1.20m	10.80m
total	19		21.60m

Materials Testing & Control

Item No.	Kind of Test	No. of Test Prev.No.	This M.	Total
107	Grading	12	-	12
	PL & LL	12	-	12
	Compaction	12	-	12
	F. Density	42	-	42
105-B	Grading	2	-	2
	PL & LL	2	-	2
103	Grading	5	-	5
	PL& LL	5	-	5
	Compaction	5	-	5
	F. Density	15	-	15
405-2.2 (FA)		1	-	1
405-2.3 (CA)		1	-	1

II. e Roads, Bridges and Drainage Structures

(San Jose-San Ramon, Feeder Road No. 502)

Construction Survey

No activity during the month.

Earthwork

No activity during the month.

Subbase & Base

No activity during the month.

Structures

No activity during the month.

Physical Accomplishment

a. Roads

subgrade - 1.243
subbase - 1.940

b. bridges

substructure - 3 span
6 LM bridge on RC abut

Drainage & Erosion Works

The following pipes have been installed as of March 25, 1981.

Size	RCP Installed Prev. Mo.	This Mo.	Total
0.60	21.60	-	21.60
0.90	21.60	-	21.60
1.20	9.60	-	9.60

Station	Number	Size	Length
0 + 752.00	8	0.61m	9.60m
0 + 860.00	10	0.61m	12.60m
total	18		21.60m
0 + 000.00	10	0.91m	12.00m
0 + 550.00	8	0.91m	9.60m
total	18		21.60m
0 + 325.00	8	1.20m	9.60m

Materials Testing & Control

Item No.	Kind of Test	No. of Test Prev.Mo.	This Mo.	Total
105-A	Grading	6	-	6
	PL & LL	6	-	6
	Compaction	6	-	6
	F. Density	32	-	32
107	Grading	4	-	4
	PL & LL	4	-	4
	Compaction	4	-	4
	F. Density	21	-	21
108	Grading	9	-	9
	PL & LL	9	-	9
	Compaction	9	-	9
	F. Density	23	-	23
402-2.2 (FA)	Grading	2	-	2
405-2.2 (CA)	Grading	2	-	2
405-C	Design Mix	1	-	1

III. SUMMARY OF PHYSICAL ACCOMPLISHMENT TO DATE

a. Roads

	Secondary road	Feeder road
subgrade	8.933 km	12.263 km
subbase	8.200 km	9.538 km
base	5.365 km.	none
surfacing	none	none

b. bridges

substructure	10 LM RC	180 LM RC
superstructure	10 LM RCDG	108 LM TbTe

BICOL RIVER BASIN DEVELOPMENT PROGRAM OFFICE
San Jose, Pili, Camarines Sur

EMPLOYMENT GENERATION SURVEY (SS3)

Name of Contractor A.B. AGUINALDO CONST. INC.

For the month of March 1981

	Administrative Finance	Eng'g Technical	Skilled	Unskilled
Manila-Based 1/	2	2		
Local-Hired 2/		2	13	6
Sub-Contractors 3/				
Total	2	4	13	6

1/ Include permanent employees

2/ Employees residing w/in the basin area

3/ Local hired only

Submitted by:

(Sgd.) RAMON M. BAUTISTA
Project Manager

pure

A.B. AGUINALDO CONSTRUCTION INC.
Pili-Mataoroc Road Project
Sub-Project No. 5, Package II, BRBDP
Tagbong, Pili, Camarines Sur

LIST OF PERSONNEL
As of March 1981

	Name	Position	Qualification
		TECHNICAL STAFF	
1.	Ramon Bautista	Project Manager	Civil Engineer
2.	Emilio Angeles	Project Engineer	-do-
3.	Eduardo Lopez	CE Aide	Experienced
4.	Antonio Alapan	Const Foreman	-do-
		Drivers	
1.	Benjamin Obrero	D.T. Driver	Experienced
2.	Roden Jayco	Service driver	-do-
3.	Flor Barra	-do-	-do-
		Bridge Gang	
1.	Romulo Villaluz	Riggerman	Expereinced
2.	Armando Asma	-do-	-do-
3.	Onopre Fernandez	Carpenter/mason	-do-
4.	Gaudencio Larcena	-do-	-do-
5.	Primitivo Elemos	-do-	-do-
6.	Juan Paldo	-do-	-do-
7.	Domingo Junio	-do-	-do-
8.	Jose Babila	-do-	-do-
9.	Incoencio Almonte	Laborer	-do-
10.	Vicente Calongui	-do-	-do-
11.	Resurrection Beria	-do-	-do-
12.	Ramon Adores	-do-	-do-
13.	Ernesto Data	-do-	-do-
14.	Salvador Dawal	-do-	-do-

A.S. AGUINALDO CONSTRUCTION INC.
Pili-Tabaoroc Road Project
Sub-Project No. 5
Pili-Camarines Sur

Annex B

LIST OF EQUIPMENTS
As of March 1, 81

1 unit - Kobe - 25 Pile Hammer

1 unit - Welding Machine, Continental

1 unit - Generator, 3 KW, Kamar Diesel Engine Driven

1 unit - ½ HP Goulds Water pump, 4 HP Kioler engine driven

1 unit - 1 Bagger Concrete Mixer

1 unit - Bar cutter

2 units - Toyota Hi-Lux (Service vehicle)

1 unit - 6-Wheeler Dump Truck, Isuzu

1 unit - 10 Wheeler dump truck, Isuzu

LIST OF LABORATORY EQUIPMENTS

8 - inch Brass Sieve 3"	1	ea.
8 - -do- 2½	-do-	ea.
8 - -do- 2"	-do-	ea.
8 - -do- 1½"	-do-	ea.
8 - -do- ¾"	-do-	ea.
8 - -do- 1/2	-do-	ea.
8 - -do- #4	-do-	ea.
8 - -do- #8	-do-	ea.
8 - -do- #10	-do-	ea.
8 - -do- #16	-do-	ea.
8 - -do- #30	-do-	ea.
8 - -do- #40	-do-	ea.
8 - -do- #50	-do-	ea.
8 - -do- #100	-do-	ea.
8 - -do- #200	-do-	ea
8 - -do- #200	-do-	ea
2 inch Dia, Brass cover less ring	-do-	ea
8 inch Dia, Brass pan	-do-	ea
8 inch Wet washing sieve #200	-do-	ea
Sample splitter 2½" 1 chute width	-do-	ea
Sample splitter 1½ chute width	-do-	ea
Heavy duty solution balance, 1 gram sc,	-do-	ea
Triple beam balance, 0.1 gram sen.	-do-	ea

Micrometer Poise Balance, 0.5 gram se.	1 ea
Drying Oven	1 ea
2 - Burner LPG Stove w/ regulator and tank	1 ea
Volumetric Flask, 50 mL	5 pcs.
Volumetric Flask, 500 mL	3 pcs.
Liquid Limit Device w/ grooving tool	2 pcs.
Plastic	2 pcs.
Rectangular pan 4" x 2" x 10	8 pcs.
Square pan 13" x 13"	14 pcs.
Moisture cans, 3 ounces	3 doz.
Hand operated shaker	1 set
Modified Compaction Mold, 1/13.33	2 sets
Modified Compaction Mold 1/30	1 set
Compaction Hammer 5.5 lbs	1 set
Compaction hammer 10 lbs	1 set
Sand Cone Apparatus and Jug	2 sets
Field Density plate	2 pcs.
4" Steel grill	2 pcs.
Rubber Mallet	2 pcs.
Sand Scoop (small)	2 pcs.
Sand scoop (big)	2 pcs.
Field Buckets 1/10 cu.ft	2 pcs.
Field Bucket ½ cu. ft	1 ea
Tampering rod	1 set
Slump cone w/ base and tampering rod	1 set
Heavy duty cylinder mold with base	1 set
Cylinder Molds	3 sets
Laboratory thermometer	1 ea
Stop watch	1 ea
Spatula	2 pcs.
Field Scale, 10 kilos max	1 ea
Rectangular pan 4" x 4" x 10	2 pcs.
Wire basket	1 ea
Work Table, 1.20 x 2.40m	1 ea
Simple wooden chairs	6 pcs.
Wooden office desks	3 pcs.
Counter with G.I sink	1 set
Wooden filing cabinet	1 ea

List of Office Equipments

Typewriter, 13" Carriage (Olympia)	1 ea
Wooden Office desk	5 pcs.
Simple wooden chairs	6 pcs.
Typing desks	2 pcs.
Drafting table	1 ea
Drafting tool	1 ea
Wooden filing cabinet	1 ea

Bicol River Basin Development Project
Secondary and Feeder Roads

PACKAGE II

PALISTINA-SAN ANTONIO-MINALABAC PROJECT

Sub-Project No. 6

Monthly Construction Report

No. 17

Prepared by:

VICENTE B. [illegible]ANO
Resident Engineer

Submitted by:

AMADO E. [illegible]
Deputy Project Manager

PROGRESS REPORT NO. 16
As of February 25, 1981

PROJECT: PALISTINA-SAN ANTONIO-MINALABAC ROAD
Sub-Project No. 6

I. GENERAL:

Palistina-San Antonio-Minalabac (Secondary Road) Sta 0 + 00 to Sta 8 + 216.81.

Maydaso-Paririk-Baras-Malitbog (Feeder Road) Sta 0 + 00 to Sta 5 + 147.54.

The project started on November 12, 1979 with a contract time of 548 calendar days thus we are expecting to finish the project by May 13, 1981. Among the four projects of Package II, under the Integrated Philconsult, Inc., Engineering consultants, the project was the last to commence.

This project under construction, consist of national Secondary road and one Feeder road. The length of the national Secondary road is 8.121681 kilometers and the first 4.25 kilometers of which will be paved with Double Bituminous Surface Treatment (DBST), Item 314, the rest being gravel base surface Item 108, together with the Feeder road which has length of 5.14754 kilometers.

As to its location the Secondary road lies in between Naga City and Pili extending from Palistina passing through San Antonio, Maydaso and ending at Bicol River. A bridge sparning the Bicol River will enable an easy access to Minalabac town proper. The feeder road, will serve the barangays of Maydaso, Paririk, Malitbog and Baras, thus forming a loop from Maydaso to the end of Secondary road.

The Secondary and Feeder roads has a 6.00 meters and 4.00 meters roadway respectively with shoulders at 1.00 meter on both sides.

Drainage structures on the Secondary road consist of RCP's different stations and one three span RCDG bridge (Sta 5 + 201.7 - Sta 5 + 232.3) over Malitbog creek. On the feeder no 1, drainage structures consist of seven (7) spans over Taririk creek and another timber trestle of three (3) spans over Baras creek

The topography of the vicinity is generally plain and the road project is traversing a large truck of cultivated riceland The existing road within the locality just spans from Palistina up to Maydaso and were made poor surfacing thus rendering non-passable to vehicle during rainy days.

Farm produce beyond Maydaso were transported manually and the farmers were obliged to pay a large amount just for transporting of their products.

Accomplishment during the first quarter of the year, which coincides with the first harvest season proves to be of great help to both farmers and dwellers of the place. Transportation cost of farm products were greatly minimized.

It has been assured that the completion of Palistina-San Antonio-Minalabac road project, sub-project No. 6 will make a dream become reality.

PROGRESS

The contractor submitted a letter to the consultant dated March 7, 1981 requesting for termination without prejudice of their contract. A copy of which has been endorsed to the Project Management Office.

Pending aprroval of said request, the consultant and the contractor are jointly undertaking the inventory survey of the project.

Contractor's personnel have been recalled to their main office The Project Engineer was left to supervise the inventory survey and to help the consultants in preparing the inventory papers.

	% Accomplishment to Date
Palistina-Minalabac (Secondary)	28.32
Maydaso-Taririk (Feeder)	1.69
Total - - - - - - -	30.01%

SUMMARY OF PHYSICAL ACCOMPLISHMENT TO DATE

A. ROADS

	SECONDARY	FEEDER
Subgrade	4.900 km.	none
Subbase	0.800 km.	none
Base	none	none
Asphalt Surfacing	none	

B. BRIDGES

Sub-Structure	none	none
Super-Structure (conc.)	none	none
Super-Structure (timber)	none	none

C. DRAINAGE

Reinforced Conc. Pipe	167 LM	none
Reinforced Conc. Box Culvert	none	none

PIPES LAID AS OF MARCH 25, 1981

	LOCATIONS	ITEM 413-2	413-3
1.	Sta 0 + 000	-	29
2.	Sta 0 + 120	12	-
3.	Sta 0 + 321.55	12	-
4.	Sta 0 + 567.80	4	-
5.	Sta 0 + 864.14	4	-
6.	Sta 1 + 269.95	4	-
7.	Sta 1 + 750	10	-
8.	Sta 2 + 071.45	19	-
9.	Sta 2 + 420	12	-
10.	Sta 2 + 745	10	-
11.	Sta 2 + 976	10	-
12.	Sta 3 + 314.50	4	-
13.	Sta 3 + 813.6	10	-
14.	Sta 4 + 622	12	-
15.	Sta 4 + 800	11	-
		138	29

Materials Testing and Control

Tabulated herebelow are the various tests performed for the project.

Palistina-San Antonio-Minalabac Road

Secondary Road

STATUS OF TEST

ITEM	KIND OF TEST	Prev. Mo.	This Mo.	Total	Remarks
105	Grading	8	0	8	Along right of way
	PL & LL	8	0	8	"
	Compaction	8	0	8	"
	Field density	20	0	20	"
105-4	Grading	14	0	14	"
	PL & LL	14	0	14	"
	Compaction	14	0	14	"
	Field Density	20	0	20	"
106	Grading	2	0	2	"
	PL& LL	2	0	2	"
	Compaction	2	0	2	"
	Field Density	3	0	3	"
107	Grading	51	0	51	San Juan Quarry
	PL & LL	51	0	51	"
	Compaction	21	0	21	"
	Soil Class	49	0	49	"
	Field Density	82	0	82	"

108	Grading	51	0	51	San Juan Quarry
	PL & LL	51	0	51	"
	Compaction	18	0	18	"
	Field Density	48	0	48	"
110	Grading	1	0	1	"
	PL & LL	1	0	1	"
	Compaction	1	0	1	"
	Field Density	1	0	1	"

Maydaso-Taririk-Malitbog-Baras Road
(Feeder Roads)

105	Grading	2	0	2	Along Right of way
	PL & LL	2	0	2	"
	Compaction	2	0	2	"
	Field Density	2	0	2	"
105-4	Grading	2	0	2	"
	PL & LL	2	0	2.	"
	Compaction	2	0	2	"
	Field Density	2	0	2	"
	Soil Class	2	0	2	"
106	Grading	1	0	1	along right of way
	PL & LL	1	0	1	"
	Compaction	1	0	1	"
	Field Density	2	0	2	"
107	Grading	17	0	17	Maydaso Quarry
	PL & LL	17	0	17	"
	Compaction	5	0	5	"
	Field Density	17	0	17	"
	Soil Class	12	0	12	"

Annex "A"

PROJECT WORKS CONTRACTOR INC.

Palistina-San Antonio-Minalabac Road

Camarines Sur

LIST OF PERSONNEL

NAME	Position	QUALIFICATION
I. TECHNICAL STAFF		
1. Crisencio Calalang	Project Engineer	Civil Engineer
ADMINISTRATIVE STAFF		
1. Leonardo Bernardino	Project Accountant	B.S.C.
2. Cyril G. Cea	Clerk/Typist	Experienced
SURVEY TEAM		
1. Pastor Aguila	Instrumentman	Experienced
2. Franklin Elgar	Chairman	- do -
3. Winefredo Gamban	Rodman	- do -
4. Lorenzo Banaga	Survey Aide	- do -

List of Laboratory Equipment
March 1981

Description	Quantity	Unit
8 inch Brass Sieve Size 3"	1	ea.
8 inch " " " 2"	1	ea.
*8 inch " " " 2.5'	1	ea.
8 " " " " 1.5"	1	ea.
8 " " " " 1"	1	ea.
8 " " " " 3/4	1	ea.
8 " " " " 1/2	1	ea.
8 " " " " 3/8"	1	ea.
8 " " " #4	1	ea
*8 " " " #10	1	ea
*8 " " " #20	1	ea
*8 " " " #30	1	ea
8 " " " #40	1	ea
8 " " " #50	1	ea
8 " " " #100	1	ea
8 " " " #200	1	ea
Sample splitters, 2.5 chute width	1	ea
Heavy duty Solution Balance, 1 gm.Sen.	1	ea
Triple Beam Scale 0.1 gm. Sensitivity	1	set
Micrometer Poise Balance 0.5 gm.	1	set
Oven circulated Fan	1	set
Sand Absorption cone and tamper	1	ea
Pycnometer Top and Jar	1	ea
Volumetric Flask, 500 ml.	1	set
Liquid Limit Devise with Grooving Tool	5	ea
Plastic Limit Set	2	sets
Moisture Cans, 3 ounces	2	sets
Modified Compaction Mold, 1/12.33	1	doz.
Proctor Compaction Mold, 1/30	1	set
Compaction Hammer, 5.5 lbs.	1	set
Compaction Hammer, 10 lbs.	1	set
SandDensity cone w/0 jar	2	ea
Concrete Cylinder Mold	3	ea
Slump Cone with base and tampering rod	1	ea
Yield Bucket, 1/10 cu ft.	1	ea
Yield Bucket, 1 cu ft.	3	ea
Tampering rod	3	ea
Thermometer, 360°C	1	ea
Gas Stove with oven	1	ea
Field Density Plate	2	ea
Pan Sieve	1	ea

Note:

* Out of schedule laboratory equipments delivered. Present laboratory equipments perventage is 98%.

BICOL RIVER BASIN DEVELOPMENT PROJECT — ROAD COMPONENTS

MANPOWER SCHEDULE OF CONSULTANTS STAFF

PACKAGE II

1979 1980 1981

NAMES	POSITION	1 N	2 D	3 J	4 F	5 M	6 A	7 M	8 J	9 J	10 A	11 S	12 O	13 N	14 D	15 J	16 F	17 M	18 A	19 M	MEN MONTHS
A.E.BANDELARIA	DEPUTY PROJ. MGR.																				18
E.C.FORTALEZA	SR.HWY. ENGR./ R.E.																				18
A.F. CUISON	SR.BRIDGE ENGR. / R.E.																				18
M.D.LACSAMANA	SR.LOCATING ENGR.																				18
J.A.TORRALBA	SR.MAT. ENGR. / R.E.																				18
F.C.ROSALES	ADMINISTRATIVE OFF.																				18
L.P.JOSE	CLERK / TYPIST																				18
T.S.SABABAN	MES'R. / JANITOR																				18
																					144

SUB-PROJECT NO. 6 PALISTINA - SAN ANTONIO - MINALABAC ROAD

V.B.ZAÑO	RESIDENT ENGINEER																				18
R.R.RAFER	HWY. ENGR. INSPECTOR																				18
R.NUNEZ	BRIDGE ENGR. INSP.																				10
W.B.CONCEPCION	MATERIALS ENGR.																				18
A.M.MADLA	SURVEYOR/DRAFTSMAN																				18
C.D.DELFIN	LABORATORY TECH.																				18
V.D.C.CLARIDAD	CLERK / TYPIST																				18
M.C.DANILA	MES'R. / JANITOR																				18
P.SABABAN	LABORER																				18
																					172

BICOL RIVER BASIN DEVELOPMENT PROGRAM OFFICE
San Jose, Pili, Camarines Sur

EMPLOYMENT GENERATION SURVEY (SS3)

NAME OF CONSULTANT INTEGRATED PHILCONSULT, INC.

FOR THE MONTH OF March, 1981

	Administrative Finance	Engineering/ Technical	Skilled	Unskilled
MANILA-BASED 1/		5		
LOCAL-HIRED 2/	5	18		8
SUB-CONTRACTORS 3/				
TOTA L	5	23		8

1/ Includes permanent employees

2/ Employees residing within the Basin Area

3/ Local Hired Only

Submitted By:

AMADO E. BANDELARIA
Deputy Project Manager

March 25, 1981

C E R T I F I C A T I O N

This is to certify that this Monthly Construction Progress Report submitted to the Ministry of Public Highways in compliance with paragraph 3.02, Article II of the Contract for Engineering Services are the actual accomplishment of the respective contractors and other information included thereat are true and correct.

AMADO E. BANDELARIA
Deputy Project Manager