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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

JULY, 1980

INTEGRATED PHILCONSULT INC.
CONSULTING ENGINEERS
PHILIPPINES

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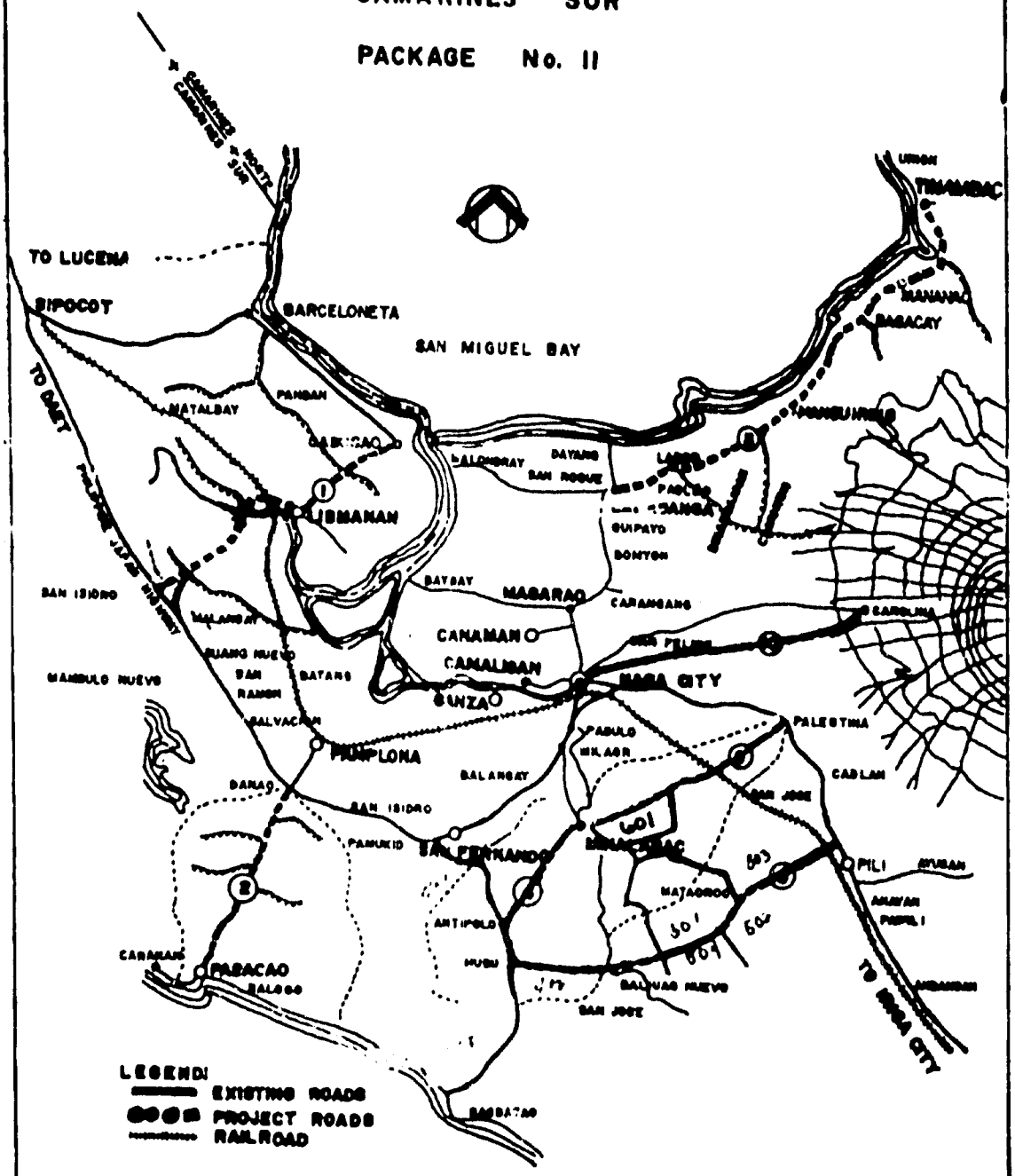
Best Available Document

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 Roads

PACKAGE II

MINALABAC-ANTIPOLO-HURO ROAD PROJECT

Sub-Project No. 4

MONTHLY CONSTRUCTION REPORT

No. 18

Prepared by:

JUSTIN ANO A. TORRALBA
Sr. Matls. Engr./Res. Engr.

Submitted by:

AMADO E. BANDELARIA
Deputy Project Manager

PROGRESS REPORT NO. 18
July, 1980

PROJECT: MINALABAC-ANTIPOLO-HUBO ROAD PROJECT
Sub-Project No. 4
Under Contract by: Polytrade Construction, Co., 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 8,838.94 kilometers.

b. Antipolo-Lupi-San Fernando feeder road no. 401, Sta. 0 + 008 to Sta. 5 + 136.53, or a length of 5.128.53.

c. Hubo-Daliwag Nuevo feeder road no. 402, Sta. 0 + 002.00 to sta. 2 + 620.44 or a length of 2.618.44

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

The total length of the project is 24,247.65 kms.

SECONDARY ROAD

Of the 8.8 kms. of secondary road, only 5.70 kms. is to be asphalted with Item 314, Bituminous Surface Treatment, Hot Asphalt Type, that is, from Sta. 0 + 000 to Sta. 5 + 701.10 and 3.14 kms. is to be surfaced with gravel (Item 108), that is, from Sta. 5 + 735.70 to Sta. 8 + 838.94.

As per plan, the width of the pavement is 6.10m. with 1.00m shoulders. The road traverses through ricelands and road embankment averaging 2.00m above ground elevation is being constructed so that the pavement cannot be reached by water during floods which is a yearly occurence in the municipalities of Minalabac and Milaor. There are 28 lines of pipes of various sizes and two (2) RCBox Culverts, installed along the 8.8 kms. stretch of secondary road to take care of drainage in the area.

The road passes thru barrios Irayang Sulong, Antipolo, sitio Campasan until barrio Hubo is reached. The above barrios are mostly populated with farmers as the town of Minalabac is within the Bicol River Basin, and a part of a very very wide area of farmlands and ricelands. Two concrete bridges, the Balogo Bridge, Km. 5+713.40 a 2 span RCDG Bridge, and Hata Bridge, Km. 7 + 324.10 a one span bridge, are now completed. Both bridges have been opened to traffic this month.

A cut-off channel 25m. wide, 3.00m deep has been constructed across the secondary road at Sta. 0 + 850 by the Bureau of Public Works immediately before this road was started and a long post tensioned bridge, one span of 90 ft., is proposed over it. Said bridge is to be advertised and tender documents in preparation for its advertisement is now being undertaken by the RIO, Naga City.

FEEDER ROAD All feeder roads are sub-contracted by:

Genaro G. Reyes Construction from Polytrade Construction Co., Inc.

Antipolo-Lapi-San Fernando - Sta. 0+008 to Sta. 5+136.53 or 5.128 kms.

This feeder road starts from barrio Antipolo with junction at Sta. 0 + 008 to end at Sta. 5 + 136.53, the junction of the National Highway at San Fernando. It will be a gravel road surface 4.00m wide with 1.00m shoulder which passes through rice-lands and sugarlands. Barrio Lapi is also densely populated and transporation of products from the barrios of Antipolo, Hubo, Baliwag Nuevo, Bagolatao, exit through this road.

Hubo-Baliwag Nuevo Road, Sta. 0 + 002 to Sta. 2 + 620.44 or 2.618.44kms.

From barrio Hubo, this road traverses thru ricelands to Baliwag Nuevo. An average embankment of 1.00m is being formed for this road. This is also 4.00m. wide with 1.00m shoulders, and to be surfaced with gravel (Item 108). This road ends just some 100 meters from the Sicol River.

Hubo-Bagolatao Road, Sta. 0 + 000 to Sta. 7 + 661.74

From Barrio Hubo, this road traverses thru steep grades as it crosses the mount in range going to the seacoast of Camarines Sur. Bagolatao is a fishing village situated on the sea coast facing Burias Island.

The maimum grade attainable on this road is 15% and the highest point reached by this road is Barrio Del Socorro, 4.5 kms.

away from Hubo and situated 265 meters above sea level. It is in Barrio Del Socorro that you see the brids-eye-view of Naga City, Pili and the outlying towns of Minalabac, Milaor and the barrios at the foot of Mount. Isarog. The scenic beauty and splendor of a p[illegible] of Camarines Sur can be seen from Del Socorro and can be made a tourist attraction once this road is finished. As we go down to Bagalatao which is about three kilometers to the coast, we see the horizon of Burias Island. There in Bagalatao you will see the crystal clear sea water. The coast is of pea-size gravel and people enjoy swimming any time of the day.

2. PROGRESS

Due to periodic rains during the month, work on the Secondary roads as well as the feeder roads slowed down quite a bit. The grounds became soft and in some sections were unworkable thus slowing greatly the progress of the work.

On the secondary road, the contractor has spread Item 200 prior to actual asphalting work from Sta. 3 + 500 - Sta. 5 + 175 Work on delivery, compacting & spreading of subbase materials continued [illegible] various sections of the road, even during rainy days as long as their quarry is accesible.

On feeder roads, the contractor also continued on delivering, spreading, and compacting subbase materials (Item 108) on Feeder road #401, 402, and 403. Details can be seen in succeeding paragraphs.

Two (2) concrete bridges, including its approaches, on the secondary road, were completed this month. They are Dalogo Bridge, km. 5 + 713.20, a 2 span RCDG, and Mata Bridge, Km. 7 + 324.10, a one span RCDG. Both bridges are now open to traffic.

The timber trestle bridge at San Fernando, Sta. 5 + 076.575 of Antipolo-Lupi- San Fernando section is seen to be started. The right-of-way problem has already been acquired. The scheme is to move the Bailey bridge to the left side so that there will be room for the concrete piles to be driven. The plan is to construct a 4 span timber trestle, but actual field conditions show that 3 span is enough. A change order is now prepared to this effect, because a two span timber trestle bridge is to be constructed in Hubo-Angolatao at Sta. 1+043.80 to replace the 2 lines of 1.20 ø corrugated steel pipes which were found to be insufficient.

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Survey works:

Profile levelling, cross-sectionings and placing of blue-tops were undertaken by the survey team of the contractor (Polytrade) on the secondary portion of the Minalabac-Antipolo-Hubo Road. Added to this are continous checking of horizontal alignments followed by placing of stationings per 25m length.

With regards to the three feeder roads (401,402,& 403), the sub-contractor also undertook the same survey works most especially on the [illegible] Road section where there remain still some portions to be cut.

General Percentage of work accomplished = 92.89%

1. [illegible] Secondary Road - -	58.30%
2. Fr [illegible] 1 - Antipolo-Lupi-San Fernando - - -	12.75%
3. Fr [illegible] 2 - Hubo-Maliwag - - - - - - - - - -	7.85%
4. Fr [illegible] 3 - Hubo-Magolatao - - - - - - - - -	13.99%
Total - - - - -	92.89%

Percent Time Elapsed - - - - - - - - - - - 97.6%

A. Secondary Roads

(1) Minalabac-Antipolo-Hubo Road, Sta. 0+000 to Sta. 8+038.94

Subgrade - - - - - - - - 8.830 kms.

Subbase - - - - - - - - 7.20 km.

Base course - - - - - - 1.95 km.

Pavement - - - - - - None

Accomplishment to date - - - - 98.06%

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B. Feeder Roads

(1) Antipolo-Lupi-San Fernando (Fr. 401)
Sta. 0 + 000 to Sta. 5 + 136.53

Subgrade - - - - - 5.118 kms.

Sub-base - - - - - 3.881 kms.

Accomplished to date - - - - 83.36%

(2) Hubo-Baliwag (Fr. 402), Sta. 0+000 to Sta. 2+620.44

Subgrade - - - - - 2.604 kms.

Subbase - - - - - .861 kms.

Accomplished to date - - - - - 87.31%

(3) Hubo-Ingolotao Road (FR.403), Sta. 0+000 to Sta. 7+661.74

Subgrade - - - - - - 7.648 km.

Subbase - - - - - - 3.636 km.

Accomplished to date - - - - - 80.50%

<u>SECONDARY ROADS</u> (Accomplished during the month)

Item 107 (Common Borrow Materials)

Sta. 0 + 4[illegible] - Sta. 0 + 825

Sta. 5 + [illegible] - Sta. 5 + 701 - Abutment A } Bridge Approaches

Sta. 5 + [illegible]5 - Sta. 5 + 775 - Abutment B } Dalogo Bridge

Sta. 7 + [illegible]50 - Sta. 7 + 315 - Abutment A } Bridge Approaches

Sta. 7 [illegible] Sta. 7 + 375 - Abutment B } Mata Bridge

Sta. 0 + 900 - Sta. 1 + 500 - (Restoration)

Item 108 (Subbase Materials)

Sta. 1 - 200 - Sta. 1 + 850

Item 200 (Gravel Base Course)

Sta. 3 + 350 - Sta. 5 + 300

Item 302 (Medium Curing cut-back Asphalt, Grade MC-1 for Bit. Prime Coat)

31 metric tons (no additional for this month)

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

17.4 Metric Tons (no additional this month)

Item 405-A (Concrete Structures)

Bridges:

Bulo o bridge - Completed including approaches - was been opened for traffic to all vehicles.

Mato bridge - Completed including approaches - has been opened for traffic to all vehicles.

Box culver s:

Sta. 6 +461.00 - single barrel, completed, 1-2.40x1.00

Sta 6 +923.00 - double barrel, completed, 2-1.00x2.10

Item 413 (RCP/Headwalls)

RCP lines as per schedule from Sta. 0 + 975 to Sta. 8 + 800, are already installed complete with headwalls. Except the two (2) lines of 60 cm ø RCP. On the other side of the cut-off channel reckoned from the beginning of the secondary road.

Remark :

The contractor of the secondary roads had filed a request for asphalt pouring scheduled on the 25th of July, 1980.

however as weather condition did not warrant due to typhoon "Osang" the said work request was temporarily withheld until fine weather prevails.

FEEDER ROADS

#401 - Antipolo-Ipo-San Fernando Road

Item 105 (Roadways and drainage excavation) - 100% completed

Item 107 (Common borrow) - delivered at least 200 cu.m. of borrow. Hereunder sub-contractor from time to time patches up small portions damage by section eroded due to heavy heavy rain.

Item 108 (Subbase materials)

Delivered at limit .500 cu.m. of this item.

#402 - Hubo-Baliwag-Bayo Road

Item 107 (Common Borrow)

Delivered at least 150 cu.m. of this item.

Item 108 (Subbase materials)

Sta. 0 + 00 - Sta. 1 + 150

#403 - Hubo-Ingolat Road

Item 105 (Roadway & Drainage Excavation)

Accomplishment of this item was mainly on the portion between Sta. 6 + 000 - Sta. 7 + 100 where there still remain small cut portions.

Item 108 (Subbase materials)

Sta. 0 + 175.00 - Sta. 0 + 800

Sta. 2 + 000 - Sta. 4 + 350

Sta. 6 + 100 - Sta. 7 + 000

Best Available Document

Laboratory Test Reports

Feeder #401

Test	Item	Previous	This month	Total	Balance
Grading	105	24	-	24	None
PL & LL	105	24	-	24	None
Compaction	105	24	-	24	NOne
F. Density	105	50	-	50	None
Grading	107	15	-	15	2
PL & LL	107	15	-	15	2
Compaction	107	15	-	15	2
F. Density	107	59	-	59	14
Grading	108	10	-	10	-
PL & LL	108	10	-	10	-
Compaction	108	10	-	10	-
F. Density	108	-	25	25	-

#402

Grading	107	16	-	16	
PL & LL	107	16	-	16	
Compaction	107	16	-	16	
F. Density	107	72	-	72	

Test	Item	Previous	This month	Total
Grading	108	2	-	2
PL & LL	108	2	-	2
Compaction	108	2	-	2
F. Density	108	10	-	10
#403				
Grading	105	40	-	40
PL & LL	105	40	-	40
Compaction	105	40	-	40
F. Density	105	131	-	131
Grading	108	-	5	5
PL & LL	108	-	5	5
Compaction	108	-	1	1
F. Density	108	-	10	10

STATUS OF TESTS
As of July 25, 1980

Materials	Total Estimated Quantities	No. of Tests Required	No. of Tests On file	No. of Tests Balance
105 Roadway & Drainage Excavation	15,500 cu.m	D - 52 C,G&P-11	D - 52 C,G&P-11	D - None C,G&P-None
106 Excavation for Structure	770 cu.m.	D - 3 C,G&P-1	D - 3 C,G&P-1	D - None C,G&P-None
107 Borrow	182,450cu.m.	D-342 C,G&P-69	D-302 C,G&P-69	D - 40 C,G&P-None
108 Aggregate Subbase Course	25,700cu.m.	C-18;D-[illegible] G&P-86	C-15;D-58 G&P-71	D-28;C-3 G&P-15
110 Foundation Fill				
200 Aggregate Base Course	7,500cu.m.	C-5 D,G&P-25	C-2;D- G&P-8	C-3;D- G&P-17
405 Conc. Class "A" (Misc)	487 cu.m.	G-(FA)-7 (CA)-7 DesignMix -7	G(FA)-5 (CA)-5 Design Mix-5	G(FA)-2 (CA)-2 Design Mix-2
405-1 Conc. Class "A" (Bridge)	163cu.m.	G(FA)-3 (CA)-3 Design Mix-3	G(FA)-3 (CA)-3 Design Mix-3	G(FA)-None (CA)None Design Mix-None
413-1 .30 ØRCP .60 M ØRCP .90 M ØRCP 1.20M ØRCP	29 L.M. 362 L.M. 96 L.M. 379 L.M.	IR-2 IR-15 IR-4 IR-16	IR- IR- IR- IR-	
500 Riprap & Grouted	190 cu.m.	IR-1	IR-1	IR-None

COMPRESSIVE STRENGTH (Secondary Road)

Date Sampled	Part of Structures Represented	Compressive Strenght 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-	[illegible]	3001	Satisfactory
-do-	-do-	3271	-do-
7-4-79	[illegible] Slab	4260	Passed
-do-	-do-	3078	-do-
7-9-79	RCBC Sidewall	3078	-do-
-do-	-do-	2394	Failed *
-do-	-do-	3016	Passed
-do-	-do-	4882	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-	[illegible]	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
10-25-79	RCBC Top Slab	3281	Passed
-do-	-do-	2729	Failed *
-do-	-do-	3576	Passed
11-8-79	RCP 1.20 Ø	2421	Failed *
11-10-79	-do-	2922	Failed *
11-21-79	-do-	2309	Failed *
11-26-79	RCP .90 Ø	3055	Passed
-do-	-do-	2340	Failed *
11-28-79	-do-	3506	Passed
-do-	[illegible]	[illegible]97	Passed
11-21-79	RCBC Wingwall	[illegible]	Passed

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11-21-79	RCBC Wingwall	4009	Passed
11-26-79	RCBC Apron	2822	Failed *
-do-	-do-	2962	Failed *
11-28-79	RCBC Wingwall	3630	Passed
-do-	-do-	3840	Passed
4-14-80	Pier, Balogo Bridge	3801	Passed compressive
-do-	-do-	3677	strength requirement
-do-	-do-	1842	
3-25-80	Coping, Abut. A	3094	-do-
-do-	-do-	3172	-do-
3-31-80	Coping, Abut B	3545	-do-
-do-	-do-	2814	
3-27-80	Backwall Abut.A	2387	Failure *
-do-	-do-	1943	Failure *
-do-	-do-	2457	Failure *
4-21-80	Coping Abut. B, Mata Bridge	2006	Failure *
-do-	-do-	2612	
-do-	-do-	3055	
4-22-80	Backwall AbutB,MataBr.	2783	Passed compressive
-do-	-do-	3055	strength requirement
-do-	-do-	3358	
5-3-80	Girder, Balogo Bridge	3529	-do-
-do-	-do-	2861	
-do-	-do-	3327	

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

Date Sampled	Part of structures represented	Compressive strength for 28days	Remarks
7-16-79	RCP 36" Ø	4664	Passed
-do-	-do-	4507	Passed
8-17-79	RCP 24" Ø	2736	Failed *
-do-	-do-	2994	Failed
8-18-79	RCP 3[illegible] Ø	3763	Passed
-do-	-do-	4555	Passed
8-3-79	RCP 4[illegible] Ø	4781	Passed
-do-	-do-	4224	Passed

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

Best Available Document

Secondary Roads

RCP's Installed with Size

Station	Size	No. of pcs.	R C P	Headwall
1 + 710.52	48'Ø	18	Installed	Constructed
1 + 475.00	36'Ø	18	Installed	Constructed
1 + 875.00	36'Ø	17	Installed	Constructed
2 + 143.82	24'Ø	18	Installed	Constructed
2 + 652.12	24'Ø	13	Installed	Constructed
2 + 852.72	24'Ø	15	Installed	Constructed
2 + 900.00	24'Ø	14	Installed	Constructed
3 + 111.44	36'Ø	15	Installed	Constructed
3 + 389.45	12'Ø	12	Installed	Constructed
3+ 325.00	12'Ø	12	Installed	Constructed
3 + 787.00	13'Ø	13	Installed	Constructed
3 + 910.52	36'Ø	14	Installed	Constructed
4 + 144.13	24'Ø	12	Installed	Constructed
4 + 369.02	24'Ø	13	Installed	Constructed
4 + 854.15	30'Ø	13	Installed	Constructed
4 + 925.00	36'Ø	15	Installed	Constructed
5 + 183.15	24'Ø	12	Installed	Constructed
6 + 225.00	24'Ø	10	Installed	Constructed
6 + 425.00	24'Ø	12	Installed	Constructed
6 + 677.00	24'Ø	13	Installed	Constructed
6 + 755.30	36'Ø	16	Installed	Constructed
7 + 250.00	48'Ø	18	Installed	Constructed
8 + 055.00	24'Ø	14	Installed	Constructed
8 + 066.00	36'Ø	15	Installed	Constructed
8 + 072.30	24'Ø	15	Installed	Constructed
8 + 222.00	24'Ø	13	Installed	Constructed
8 + 459.00	24'Ø	12	Installed	Constructed
8 + 650.00	24'Ø	14	Installed	Constructed

WEATHER REPORT
As of July , 1980

PROJECT: Binalabac- Antipolo-Hubo Road Project
Sub-Project No. 4

Date-1980	Weather	Remarks	Time Extension Recommended
June 26	Fair	Workable	None
27	Fair	Workable	None
28	Fair	Workable	None
29	Fair	Workable	None
30	Fair	Workable	None
July 1	Cloudy w/ [illegible] rain	Workable	None
2	Cloudy to heavy rain	Unworkable	One (1) day
3	Grounds still wet	Unworkable	One (1) day
4	Fair to cloudy	Workable	None
5	Fair w/ [illegible] rain	Workable	None
6	Fair to cloudy	Workable	None
7	Rainy	Unworkable	One (1) day
8	Int. rain	Unworkable	One (1) day
9	Rainy	Unworkable	One (1) day
10	Int. rain	Unworkable	One (1) day
11	Grounds still wet	Unworkable	One (1) day
12	Cloudy w/ [illegible] rain	Workable	None
13	Fair to cloudy	Workable	None
14	Fair w/ [illegible] rain	Workable	None
15	Cloudy to heavy rain	Unworkable	One (1) day
16	Rainy	Unworkable	One (1) day
17	Int. rain	Unworkable	One (1) day
18	Grounds still wet	Unworkable	One (1) day
19	Cloudy to fair	Workable	None
20	Fair w/ [illegible] rain	Workable	None
21	Fair to cloudy	Workable	None
22	Cloudy w/ [illegible] rain	Workable	None
23	Cloudy to heavy rain	Unworkable	One (1) day
24	Stormy Typhoon signal#3	Unworkable	One (1) day
25	Int. rain	Unworkable	One (1) day

TOTAL EXTENSION OF TIME RECOMMENDED THIS MONTH - - - - 14 days
TOTAL EXTENSION OF TIME RECOMMENDED PREVIOUSLY - - - -104 days
Grand Total Extension of time recommended - - - - - - -118 days

Date of effectivity of Contract - - - - February 7, 1979

Best Available Document

Bicol River Basin Development Project
San Jose, Pili, Camarines
Sur

EMPLOYMENT GENERATION SURVEY (ESS)

NAME OF CONTRACTOR GENARO G. REYES CONSTRUCTION, INC.

FOR THE MONTH OF July, 19 80

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

1/ Includes permanent employees

2/ Employees residing within the Basin Area

3/ Local Hired Only

Submitted by:

ANTONIO PANZON
Project Engineer

-11-

GENARO G. REYES CONSTRUCTION, COMPANY
Minalabac, Camarines Sur

LIST OF PERSONNEL

NAME	POSITION	QUALIFICATION
1. Antonio Dancon	Project Manager	Civil Engineer
2. Rogelio Gonzales	Project Engineer	Civil Engineer
3. Maximo Mendoza	Foreman	Experienced
4. Marcos Galban	Foreman	-do-
5. Armando Bidania	Instrument Man	-do-
6. Bong Bidania	Survey Aide	-do-
7. Dominador Sabado	Survey Aide	-do-
8. Danilo Nicolas	Survey Aide	-do-
9. Orlando Dacuman	Survey Aide	-do-
10. Jolito Cambo	Survey Aide	-do-
11. Domingo Voluntad	Timekeeper	-do-
12. Pedro Suyat	Overseer	-do-
13. Agustin Perena	Motorpool Guard	-do-
14. Luciano Lavandero	Guard	-do-
15. Francisco Magnato	Guard	-do-
16. Andress Rodeno	Guard	-do-
17. Vicente Armellas	Guard	-do-
18. Leonardo Valentin	Grader Operator	-do-
19. Ruben Macapagal	Dulldozer Operator	-do-

20.	Baltazar Pansito	Payloader Operator	Exp [illegible]nced
21.	Reynaldo Arcinas	Bulldozer Operator	-do-
22.	Mario Reyes	Dump Truck Driver	-do-
23.	Reynaldo Castro	Dump Truck Driver	-do-
24.	Ruben Jacobe	Dump Truck Driver & Wooble Operator	-do-
25.	Sixto Simon	Dump Truck Driver	-do-
26.	Ricardo Macapagal	Bulldozer Operator	-do-
27.	Juan Cambe	Bulldozer Operator	-do-
28.	Fernando Alojada	Mechanic	-do-
29.	Leonardo Sabado	Helper Mechanic	-do-
30.	Bax dela Cruz	Helper Mechanic	-do-

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

EMPLOYMENT GENERATION SURVEY (SS3)

NAME OF CONTRACTOR POLYTRADE CONSTRUCTION, INC.
FOR THE MONTH OF July, 1980

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

1/ Includes permanent employees

2/ Employees residing within the Basin Area

3/ Local Hired only

SUBMITTED BY:

MILAGROS A. BORBERTO
Project Engineer

/jb

Minalabac-Antipolo-Hubo Project Road

POLYTRADE CONSTRUCTION, INC.
Minalabac, Camarines Sur

LIST OF PERSONNEL
As of July, 1980

I. TECHNICAL STAFF

NAME	Position	Qualification
Perez, Teodoro	Project Manager	Civil Engineer
Norberto, Milagros	Project Engineer	-do-
Espeso, Leonardo	Project Supervisor	-do-
Sauco, Rogo	Shop & Equipt, Supervisor	Experienced
Parillas, Zacarias	Const, Foreman	-do-
Porteria, Juanito	Bridge Foreman	-do-
Rojano, Silvestre	Lab. Technician	-do-

II. ADMINISTRATIVE STAFF

Cruz, Nestor	Adm. Officer	B S B A
Reyes Efren	Comptroller	Experienced
Sauco, Delfin	Misc. Service	-do-
Polvoriza, Armando	Warehouseman	-do-
Tolledo, Arni	Pyroll clerk	B S B A
Dumaventura, Godofredo	POL In charge	Experienced
Tragante, Frisco	Watchman	-do-
Pellosis, Eduardo	Watchman	-do-
Asis, Leoncio de	Watchman	-do-
Jacobe, Pedro, Jr.	Watchman	-do-
Aguila, Celestino	Field Checker	-do-

III. MECHANICAL DEPARTMENT

Luna, Freddie	Mechanic	Experienced
Caisip, Rogelio	Mechanic	-do-
Torsar, Francisco	Tireman	-do-
Dinlas, Cedillo	Electrician	-do-

IV. SURVEY & LAB. TEAM

Torre, Dayani de	Chairman	-do-
Eballar, Luis	Survey Aide	-do-
Bislumbre, Carlos	Survey Aide	-do-
Leon, Luis de	Lab. Aide	-do-

V. DRIVERS

Adao Numeriano	DT - Driver	-do-
Julo, Norberto	DT - Driver	-do-
Palmas, Ricardo	DT - Driver	-do-
Balonzo, Rodelio	DT - Driver	-do-
Bernal, Carlos	Service Driver	-do-

VI. HEAVY EQUIPMENT

Francisco, Graciano	Loader Operator	-do-
Villavecencio, Virgilio	BD Operator	-do-
Lozano, Teotimo	Grader Operator	-do-
Delorino, Eduardo	Dynapac Operator	-do-
Balonzo, Jolito	BD Operator	-do-
Hernandez, Teodoro	Helper	-do-

HEAVY EQUIPMENTS
As of July , 1980

Secondary Roads:

a. Bulldozer
   1 unit D-6H (komatsu) w/ 2 rippers

b. Dump Trucks:
   2 Ford (6-wheelers)
   2 Isuzu (10-wheelers)
   1 Isuzu (6-wheelers)

c. Rollers:
   Vibratory Compactor, Dynapac (Self-propelled)

d. Loader:
   2 Isuzu Loader (JH-60, w/ Kimco body)

e. Grader:
   1 Unit Caterpillar

f. Water Truck:
   1 Unit w/ truck tractor

additional this month:

   1 Tandem Roller
   1 Pneumatic Roller
   1 Asphalt Distributor

Feeder Road Nos. 401, 402 & 403

a. Bulldozer
   2 units caterpillar (D-8)
   1 unit Komatsu (D-80A w/ ripper)

b. Dump Trucks
   5 units Isuzu (6-wheelers)
   1 unit Tandem Wheel roller

c. Roller:
   1 unit self-propelled Pneumatic roller
   1 unit 3-wheel Tandem roller

d. Loader
   2 units Caterpillar

e. Grader
   2 units Caterpillar

f. Water Truck
   1 unit on top of 6-wheel truck

LIST OF OFFICE EQUIPMENT
As of July, 1980

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

Annex "C"

LIST OF LABORATORY EQUIPMENTS
As of July, 1980

8 - inch Brass Mesh 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. 10	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 [illegible] Chute width	1	set
Sample splitter 1½ Chute width	1	set
Heavy duty Solution balance 20kg. cap Chinese H-11190	1	set
Triple Beam Balance 0.1 gra	1	set
Volumetric Flask 500ml.	1	set
Liquid Limit [illegible] grooving tool	1	set
Plastic Limit	1	set
Cent - - [illegible] Balance 0.01 gra	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	set
Yield Bucket	1	pc.
Oven, Electric Memmert #760190	1	unit
Harvard Trip Balance Ohauso	1	set
8 - inch Brass Sieve No. 4	1	unit
Spring Balance 12 Kilos Cap.	1	unit
Compaction Mold 1/30 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 2.40 m.	1	ea.
Simple Wooden Chair	5	pcs.
Corenter w/G.I. sink	1	
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, 1979 respectively.

Best Available Document

ITEM NO.	DESCRIPTION	ESTIMATED % SCHEDULED	ACC
1.60.2	Provide and Maintain Office & Laboratory for the Engr.	0.35562	0.335
1.60.3	Provide one (1) Unit four Wheel Drive for the Engineer	0.59270	
1.60.4	Provide one (1) Unit Utility Vehicle for the Engineer	0.26342	
1.60.5	Laboratory and Office Equipment for Engr. (as listed)	0.59270	
100	Clearing and Grubbing	1.02982	
103-1 (Fr. 401)	Removal of Bridge	0.02099	
105 (Secondary)	Roadway and Drainage Excavation	2.55192	
105 (Fr. 401, 402)	Roadway and Drainage Excavation	2.37584	
105 (Fr. 403)	Roadway and Drainage Excavation	9.84153	
106	Excavation for Structures	0.15802	
106 (Fr. 401, 402, 403)	Excavation for Structures	0.23544	
107 (Secondary)	Borrow	26.98783	
107 (Fr. 401, 402)	Borrow	11.48326	
108 (Secondary)	Aggregate Sub-base	11.94272	
108 (Fr. 401, 402, 403)	Aggregate Sub-base	8.77055	
110	Foundation	0.05968	
111	Overhaul (300 m. Free haul)	0.05445	
200	Aggregate Base Course	3.85876	
302	Medium curing Cut-Back Asphalt, Grade MC-1 for Bit. Pr. Coat	1.00760	
314-1	Aggregate Material for B ST, (Hot Asphalt Type)	0.57624	
314-3	85-100 Penetration Asphalt Cem. for BST (Hot Asphalt Type)	2.01520	
401 (Fr. 401)	Timber (Detour) Trestle (Superstruc. only on Conc. Pile Bent)	0.39514	
402-2.5	Precast Concrete Piles	2.31451	
402-2.5 a	Concrete Test Piles (Furnish and Drive)	0.44453	
403	Concrete Railings	0.08853	
405	Concrete Class "A" (Miscellaneous)	2.76620	
405-1	Concrete Class "A" (Bridge)	1.04662	
405-1 (Fr. 401)	Concrete Class "A" (Bridge)	0.08563	
406 (Secondary)	Reinforcing Steel	1.44226	
406 (Fr. 401, 402, 403)	Reinforcing Steel	0.22416	
413-1	0.30 M. Ø Reinforced Concrete Pipe	0.03820	
413-1 (Fr. 401)	0.30 M. Ø Reinforced Concrete Pipe	0.00691	
413-2	0.60 M. Ø Reinforced Concrete Pipe	1.02810	
413-3 (Secondary)	0.90 M. Ø Reinforced Concrete Pipe	0.49000	
413-3 (Fr. 401, 402, 403)	0.90 M. Ø Reinforced Concrete Pipe	1.45122	
413-4	1.20 M. Ø Reinforced Concrete Pipe	2.80794	
500	Riprap and Grouted	0.23461	
510	Right-of-Way Marker	0.36115	
TOTAL		100.0000	
		MONTHLY	
		CUMULATIVE	

BAF

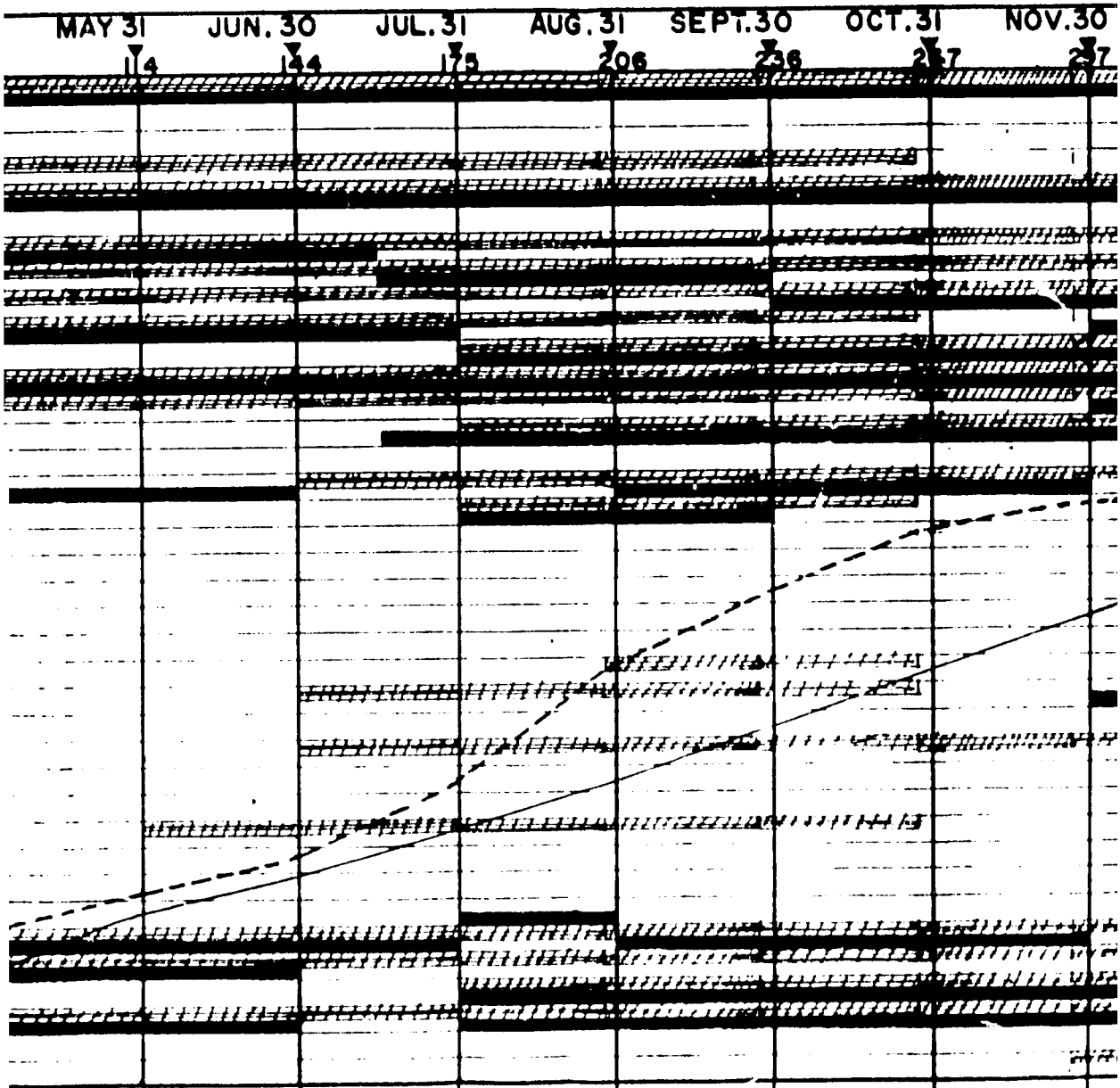
MINALAB

FEBRUARY 7, 1979
START OF CONTRACT
TIME

WEIGHT	% COMPLETED	QUANTITY	UNIT COST	AMOUNT
5	[illegible]	18 MO.	₱2,400/mo.	₱43,200.00
[illegible]	[illegible]		Lump Sum	72,000.00
[illegible]	100		Lump Sum	32,000.00
[illegible]	100		Lump Sum	72,000.00
[illegible]	100	27.8 Ha.	4,500.00	125,100.00
		1 Each	₱2,550.00	2,550.00
[illegible]	100	15,500 Cu.m.	20.00	310,000.00
[illegible]	[illegible]	15,190 Cu.m.	19.00	288,610.00
[illegible]	[illegible]	74,720 Cu.m.	16.00	₱195,520.00
[illegible]	100	770 Cu.m.	24.93	19,196.10
[illegible]	[illegible]	1,300 Cu.m.	22.00	28,600.00
[illegible]	[illegible]	02,450 Cu.m.	32.00	3,278,400.00
[illegible]	[illegible]	44,710 Cu.m.	31.[illegible]	1,[illegible]
[illegible]	[illegible]	25,700 Cu.m.	56.[illegible]	[illegible]
[illegible]	[illegible]	19,730 Cu.m.	54.00	1,065,420.00
[illegible]	[illegible]	145 Cu.m.	50.00	7,250.00
[illegible]	[illegible]	22,050 Sta.m.	0.30	6,615.00
[illegible]	[illegible]	7,500 Cu.m.	62.50	468,750.00
[illegible]	[illegible]	51 M.T.	2,400.00	122,400.00
[illegible]	[illegible]	700 Cu.m.	100.00	70,000.00
[illegible]	[illegible]	102 M.T.	2,400.00	244,800.00
		4 SPANS	12,000.00	48,000.00
[illegible]	[illegible]	396 L.M.	710.00	281,160.00
[illegible]	[illegible]	4 Each	13,500.00	54,000.00
	[illegible]	71.70 L.M.	150.00	10,755.00
[illegible]	[illegible]	487	690.00	336,030.00
[illegible]	[illegible]	163 Cu.m.	780.00	127,140.00
		14 Cu.m.	743.00	10,402.00
[illegible]	100	25,765 Kgs.	6.80	175,202.00
		3,890 Kgs.	7.00	27,230.00
		29 L.M.	160.00	4,640.00
	[illegible]	6 L.M.	140.00	840.00
	[illegible]	362 L.M.	345.00	124,890.00
	[illegible]	96 L.M	620.00	59,520.00
	[illegible]	289 L.M.	610.00	176,290.00
	[illegible]	379 L.M.	900.00	341,100.00
	[illegible]	190 Cu.m.	150.00	28,500.00
	[illegible]	914 L.M.	48.00	43,872.00
				₱12,147,699.10

	FEB. 28	MAR. 31	APR. 30	
	22	53	83	
ACCOMPLISHMENT	₱181,000.72	581,874.79	553,935.08	742,
TOTAL AMOUNT		₱ 762,875.51	1,316,810.59	2,05

AR SCHEDULE OF WORK
OF
ABAC – ANTIPOLO – HUBO ROAD

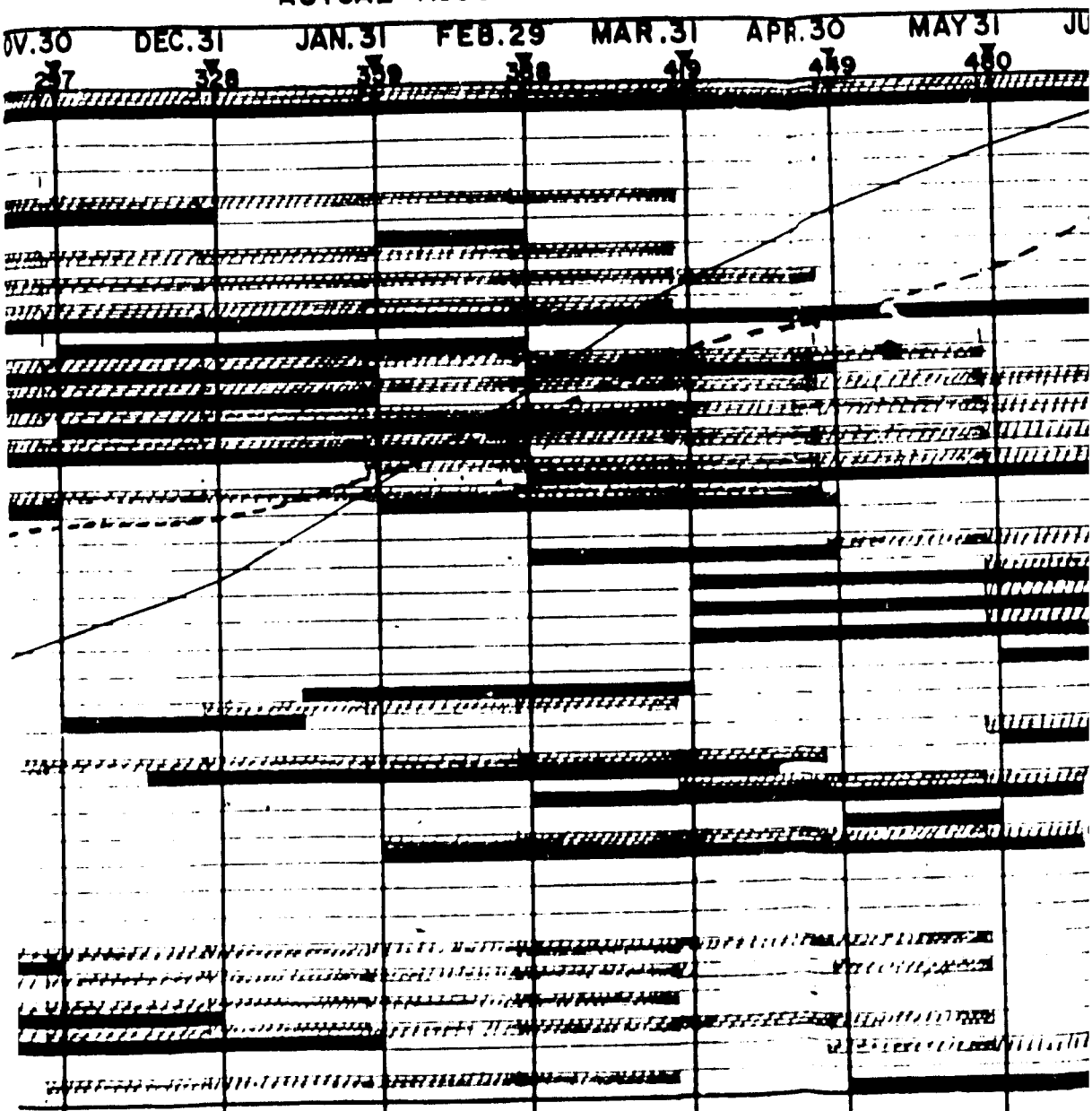


42,224.41	431,243.32	523,565.83	606,170.19	621,962.19	635,324.66	653,546.21	69
059,035.00	2,490,278.32	3,013,844.15	3,620,014.34	4,241,976.53	4,877,301.19	5,530,847.40	6,

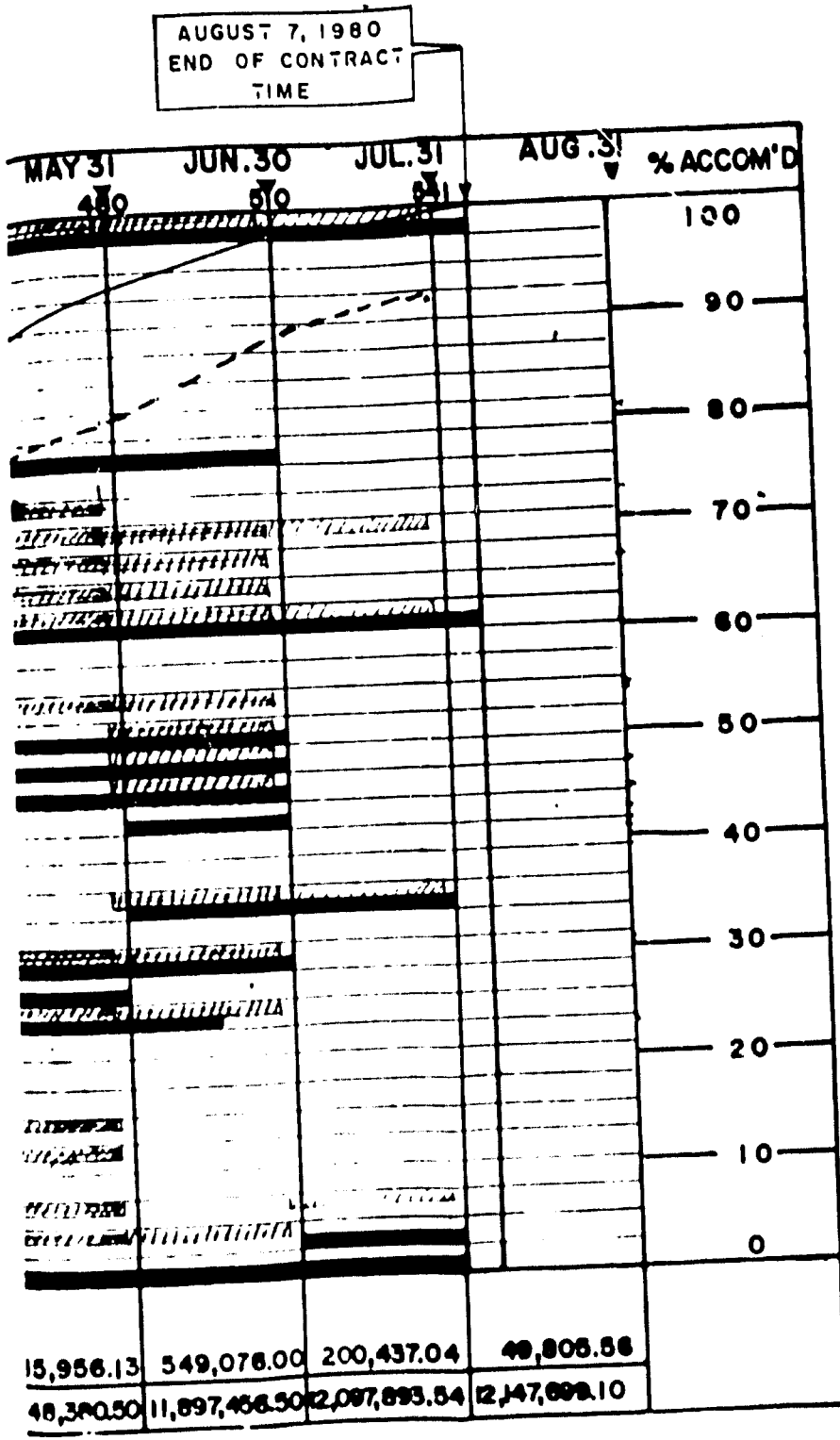
LEGEND:

- PREVIOUS ACCOMPLISHMENT
- PROGRESS THIS REPORT
- SCHEDULED WORK
- SCHEDULED ACCOMPLISHMENT
- ACTUAL ACCOMPLISHMENT

AU
END



.21	697,277.93	1,082,359.99	1,069,648.61	1,354,468.46	807,821.99	785,956.13	549,0
7.40	8,228,125.33	7,310,465.32	8,400,133.93	9,754,602.38	10,562,424.37	11,348,380.50	11,897,4


AUGUST 7, 1980
END OF CONTRACT
TIME
MAY 31
JUN. 30
JUL. 31
AUG. 31
% ACCOM'D
100
90
80
70
60
50
40
30
20
10
0
15,956.13
549,076.00
200,437.04
49,806.86
48,380.50
11,897,466.50
12,097,893.54
12,147,699.10

30

BICOL RIVER BASIN DEVELOPMENT PROJECT

(ROAD COMPONENTS)

MANPOWER SCHEDULE OF CONSULTANT'S STAFF FOR CONSTRUCTION SUPERVISION

PACKAGE II

NAMES	POSITION	DEC	JAN	1 FEB	2 MAR	3 APR	4 MAY	5 JUN	6 JUL	7 AUG	8 SEPT	9 OCT	10 NOV	11 DEC	12 JAN	13 FEB	14 MAR	15 APR	16 MAY	17 JUN	18 JUL	19 AUG	MEN MONTHS
A. E. BANDELARIA	DEP. PROJ. MGR.																						19
L. D. MAYOR	SR. HWY. ENGR./R.E.																						18
F. G. OBUSAN	SR. BR. ENGR./R.E.																						18
M. D. LACSAMANA	SR. LOC. ENGR./R.E.																						18
J. A. TORRALBA	SR. MATL'S ENGR./R.E.																						18
F. C. ROSALES	ADM. OFFICER																						19
L. P. JOSE	CLERK TYPIST																						18
T. S. SABABAN	MES'R JANITOR																						18
																						SUB-TOTAL	144
SUB-PROJECT NO. 4, MINALABAC-ANTIPOLO-HUBO ROAD																							
J. A. TORRALBA	SR. MATL'S ENGR./R.E.					(INCLUDED IN KEY STAFF)																	18
V. E. PARIS	ENGR. INSP. (HWY.)																						18
E. C. FORTALEZA	ENGR. INSP. (BRIDGE)																						14
C. C. ORTIZ	MATL. ENGR.																						18
A. E. BANDELARIA	SURVEYOR/DRAFTSMAN																						18
A. M. ABOGA	LAB. TECHNICIAN																						18
M. L. SANTIANO	CLERK/TYPIST																						18
G. LABUTAP	JANITOR/MESSENGER																						19
R. M. ABANTE	LABORER																						18
																						SUB-TOTAL	158

Bicol River Basin Development Project

Secondary and Feeder Roads

PACKAGE II

PILI-MAMAOROC ROAD PROJECT

Sub-Project No. 5

MONTHLY CONSTRUCTION REPORT
No. 23

Prepared by:

FRANCISCO G. OBUSAN
Sr. Br. Engr./Res. Engr.

Submitted by:

AMADO E. BANDOLARIA
Deputy Project Manager

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PROGRESS REPORT NO. 2

June, 1980

PROJECT: PILI-MATACROC ROAD PROJECT (Secondary and Feeder Roads)
SUB*PROJECT NO. 5

1. GENERAL

This project consist of the construction of the following:

1) Secondary Road - 8.988 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 10 M RCDG at sta 3+398.7 and 4 - 0.80 x 0.80 M RCBC's.

2. Matacroc-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.

Best Available Document

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 end 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 0.80 M 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 2-1.80 x 2.10 RCBC's.

5. San Jose - San Ramon, Feeder Road 504 - 1.961 kms., from sta 0+114.09 to sta. 1+998.27 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 at 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 slow. The main activity is in structure in Feeder Road No. 501 particularly the 17 span TbTe bridge at sta 6 + 096. Work accomplished to date is 91.31393% with a time elapsed of 85.54216%

ROAD	% ACCOMPLISHED TO DATE
1. Secondary Road - - - - - - - - - -	45.24%
2. Matacroc-Manapao-Baliwag, FR 501- -	30.66
3. Sagrada-San Isidro, FR 502 - - -	5.94
4. Manapao-Malitbog, FR 503 - - - - -	4.65
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), Employmebt 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 and Base

Hauling and placing of item 200 from sta 5 + 200 to sta 5 + 450.

Surfacing

No activity during the month.

Structures

No activity during the month.

Physical Accomplishment as of July 25, 1980

a. Roads		b. Bridges
Subgrade	- 8.988 km	Sub-structures - 10 LM RC
Subbase	- 8.200 km	Abut on RC piles
Base	- 5.365 km	Superstructure - 1 span
		10 LM RCDG
Surfacing	- none	

Drainage and Erosion Works

The following pipes have been installed as of July 25, 1980.

Best Available Document

SIZE ø	R C P INSTALLED (L.M.) Prev. No.	This No.	Total	REMARKS
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	0.30 M	6.00 M
1 + 013.37	12	0.30 M	14.40 M
1 + 376.30	10	0.30 M	12.00 M
7 + 010.00	11	0.30 M	13.20 M
7 + 525.00	1	0.30 M	13.20 M
8 + 210.00	11	0.30 M	13.20 M
8 + 312.00	13	0.30 M	15.60 M
8 +955 .25	14	0.30 M	16.80 M
T O T A L	87		104.40 M

STATION	NUMBER	SIZE	LENGTH
2 + 912.00	10	0.46 M	12.00 M
4 + 535.00	10	0.46 M	12.00 M
4 + 825.00	10	0.46 M	12.00 M
6 + 100.00	9	0.46 M	10.80 M
6 + 347.73	11	0.46 M	13.20 M
7 + 275.00	11	0.46 M	13.20 M
7 + 407.00	11	0.46 M	13.20 M
7 + 850.00	12	0.46 M	14.40 M
8 + 010.00	11	0.46 M	13.20 M
T O T A L	95		114.00 M
0 + 100.00	10	0.61 M	12.00 M
0 + 300.00	10	0.61 M	12.00 M
1 + 625.00	10	0.61 M	12.00 M
3 + 100.00	10	0.61 M	12.00 M
3 + 525.00	12	0.61 M	14.40 M
T O T A L	52		62.40 M
0 + 750.00	10	0.91 M	12.00 M
1 + 107.39	10	0.91 M	12.00 M
1 + 286.70	10	0.91 M	12.00 M
1 + 993.10	8	0.91 M	9.60 M
2 + 103.42	10	0.91 M	12.00 M
2 + 358.52	10	0.91 M	12.00 M
4 + 700.00	10	0.91 M	12.00 M
5 + 175.00	14	0.91 M	16.80 M
5 + 350.00 20	12	0.91 M 2 0	14.40 M
5 + 425.00	10	0.91 M	12.00 M
6 + 950.00	11	0.91 M	13.20 M
7 + 475.00	14	0.91 M	16.80 M
8 + 475.00 20	13	0.91 M 2 0	15.60 M
7 + 710.00	12	0.91 M	14.40 M
T O T A L	179		214.80 M
2 + 760.00	12	1.20 M	14.40 M
5 + 000.00	11	1.20 M	13.20 M
6 + 625.00 2 0	14	1.20 M 2 0	16.80 M
9 + 000.00 2 0	12	1.20 M 2 0	14.40 M
T O T A L	75		90.00 M

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6. Materials Testing and Control

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	21	2	23
	Grading	21	2	23
	Compaction	21	2	23
	F. Density	23	4	27
	Sp. Gravity	1	-	1
108	Grading	92	-	92
	PL & LL	92	-	92
	Compaction	92	-	92
	F. Density	252	-	252

402-2.5 (F.A)	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 (F.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 R C P	3060	Passed
-do-	-do-	3450	Passed
-do-	-do-	3520	Passed
11-12-78	18" O/R C P	3145	Passed
-do-	-do-	3415	Passed
11-18-78	36" Ø R C P	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 HATAGROC-MANAPAO BRIDGE	3630	Passed
-do-	-do-	3840	Passed
-do-	-do-	3920	Passed
11-25-78	24" Ø R C P	3090	Passed
-do-	-do-	3138	Passed
11-28-78	36" Ø R C P	3111	Passed
-do-	-do-	3334	Passed
12-16-78	48" Ø R C P	3377	Passed
-do-	-do-	3397	Passed
-do-	-do-	3425	Passed
12-18-78	18" Ø R C P	2970	Failure
-do-	-do-	3340	Passed
-do-	-do-	3481	Passed
12-19-78	36" Ø R C P	2615	Failure
-do-	-do-	3160	Passed
-do-	-do-	3457	Passed
12-20-78	48" Ø R C P	3410	Passed
-do-	-do-	3465	Passed
-do-	-do-	4020	Passed
2-12-79	36" Ø R C P	3195	Passed
-do-	-do-	3332	Passed
-do-	-do-	3411	Passed
2-15-79	48" Ø R C P	3000	Passed
-do-	-do-	3040	Passed
-do-	-do-	3087	Passed
2-16-79	12" Ø R C P	3010	Passed
-do-	-do-	3444	Passed
-do-	-do-	3516	Passed
3-13-79	RCP, RCDG, SAGRADA BRIDGE	3562	Passed
-do-	-do-	3843	Passed
-do-	-do-	4108	Passed

DATE	Location of STRUCTURE	Result after 28 Days	Remarks
3/13/79	24" Ø RCP	3,740	Passed
-do-	-do-	3,252	-do-
-do-	-do-	2,814	Failure
3/20/79	36" ØRCP	3,462	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-	Passed
-do-	-do-	3,255 -do-	Passed
5/5/79	36" Ø RCP	3,106(12 days)	Satisfactory
-do-	-do-	3,420 -do-	Satisfactory
-do-	-do-	3,516 -do-	-do-
5/7/79	48" Ø RCP	3,296(33 days)	-do-
-do-	-do-	2,748 -do-	Failure
5/9/79	18" Ø RCP	3,623(31 days)	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	S atisfactory
-do-	-do-	2,946	-do-
5/19/79	12" Ø RCP	3,202(21 days)	Passed
-do-	-do-	2,989 3028	Compressive
-do-	-do-	2,892	Strength requirement
6/7/79	Abutment "A" SAGRADA BRIDGE	3,382(32 days)	Passed compresive
-do-	-do-	3,125 Ave.3,389	Strength requirement
-do-	-do-	3,661	
6/23/79	Abutment A & B SAGRADA BRIDGE	3,358(20days)	
-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-
-do-	-do-	4,167	
7/18/79	18" Ø RCP	2,892(14days)	Satisfactory
-do-	-do-	2,923 Ave.2,853 for 23 days	
-do-	-do-	2,744	

8-4-79 -do- -do-	Item 405 Sagrada Bridge Girders)	3,415	Passed compressive Strength requirement
8-4-79 -do-	Test Pile FR #501 TTr Br. Sta. 0+216 0+224 -do-	3,260	Passed compressive Strength requirment
8-6-79 -do- -do-	Test Pile FR #501 TTr Br. Sta. 1+367- 1+365 -do-	2,565	Failure
8-10-79 -do- -do-	Item 405 Sagrada Bridge (Slab)	3,295	Passed compressive Strength requirement
8-21-79 -do- -do-	Sagrada Bridge Railing -do-	3,439	Passed compressive Strength requirement
8-25-79 -do- -do-	Test Pile for TbTe sta. 1+880 FR 502 -do-	3,478	-do-
8-28-79 -do- -do-	RCBC, sta. 4 +000 -do-	3,322	-do-
9-1-79 -do- -do-	Test Pile for TbTe sta. 1 +433 FR 504 -do-	3,485 (55 days)	-do-
9-23-79 -do- -do-	RCP, 0.91 M Ø -do- -do-	3,156 (27 days)	-do-
10-12-79 -do- -do-	RCP, 0.30 M Ø -do- -do-	3,195 (13 days)	-do-
10-12-79 -do- -do-	RCP, 0.91 M Ø -do- -do-	3,247 (13 days)	-do-

10-15-79	RCP, 0.61 M Ø		
-do-	-do-	3,021 (10days)	Satisfactory
-do-	-do-		
10-16-79	RCP, 0.30 M Ø		
-do-	-do-	3,060 (9days)	Satisfactory
11-7-79	RCP, 1.20 M Ø		
-do-	-do-	3,250 (15days)	Passed compressive strength requirement
11-10-79	RCP, 0.46 M Ø	3,174 (12days)	-do-
-do-	-do-		-do-
-do-	-do-		
11-11-79	RCP, 1.20 M Ø		
-do-	-do-	3,213 (11days)	-do-
-do-	-do-		
11-15-79	RCBC, Km. + 417.50	3,107 (19days)	Passed Compressive strength requirement
-do-	P. D. 304 San Jose-San Ramon		
-do-	-do-		
11-22-79	Headwall, Km. 5 + 950	2,838 (12days)	Passed compressive strength requirement for 28 days
11-23-79	Headwall, Km. 9 + 400	2,910 (11days)	-do-
-do-	Secondary Road		
-do-	-do-		
12-6-79	RCBC Km. 5 + 775	3,133 (36days)	Passed compressive strength requirement
-do-	Secondary Road		
-do-	-do-		
12-10-79	RCBC, Km 6 + 200	3,154 (32days)	Passed compressive strength requirement
-do-	Secondary Road		
-do-	-do-		
12-11-79	18" Ø R C P	3,438 (31days)	-do-
-do-	-do-		
-do-	-do-		
12-12-79	4[illegible]" Ø R C P	3,418 (30days)	-do-
-do-	-do-		
-do-	-do-		
1-7-80	Bearing Piles	3,263 (32days)	
-do-	-do-		
-do-	-do-		
1-9-80	[illegible]	3,366 (30 days)	
-do-	-do-		
-do-	-do-		

Best Available Document

2/3/80 -do- -do-	Bearing pile, Km.1+404-442 FDR # 504	Ave.3,369 (33days)	Passed compressive strength requirement
3/3/80 -do- -do-	Capping #2-3, Km.1+871-889 FDR # 502	Ave.3,200 (30days)	-do-
3/4/80 -do- -do-	Capping #1-4, Km.1+871-889 FDR#502	Ave.3,161 (29 days)	-do-
3/5/80 -do-	Headwall, Km.1+993.10 Secondary Road	Ave.3,261 (28 days)	-do-
3/5/80	Wingwall, Km.4+000 Secondary Road	3,226 (28 days)	-do-
3/7/80	Headwall Km. 0+650 FDR # 501	3,104 (26 days)	-do-
3/7/80 -do-	Headwall, Km. 0+848 FDR # 501	3,172 (26 days)	-do-
3/20/80 -do- -do-	12" ø RCP -do- -do-	Ave.3,208 (13 days)	-do-
2/25/80 -do- -do-	Capping #1,2,4, Km.1+424 FDR # 504	Ave.3,299 (23 days)	-do-
3/28/80 -do- -do-	Capping #3, Km.1+424 FDR # 504	Ave.3,208 (20 days)	-do-
3/28/80 -do- -do-	Headwalls Km. 3+156 FDR # 501	Ave.3,321 (20 days)	-do-
3/31/80 -do- -do-	TEST PILE, Km.6+147.00 FDR #501, BALIWAG SIDE	Ave.3,190 (17 days)	-do-
4/1/80 -do-	TEST PILE, Km.6+045.00 FDR #501, MALAPAO SIDE	Ave.3,210 (16 days)	-do-

Additional this month

4/12/80	Bearing Pile, KM. 1+367.00			Passed compressive
-do-	FR. 501	Ave.3249	(34 days)	Strength requirement
-do-				
4/15/80	0.61m. Ø RCP	Ave.3332	(31 days)	-do-
-do-				
-do-				
4/17/80	HW,KM. 4+750.00	3,203	(29 days)	-do-
	FR.			
4/23/80	HW,KM. 2+257.00	Ave. 3,057	(23 days)	-do-
-do-	FR. 501			
-do-				
4/26/80	Capping, KM 0+224.00	Ave.3,146	(20 days)	-do-
-do-	FR. 501			
-do-				
5/1/80	Headwall, KM 0+750			
-do-	FR 503	Ave.3,011	(15 days)	-do-
-do-	FR 503			
-do-				
5/3/80	Headwall, KM 0+500	Ave.3,068	(13 days)	-do-
-do-	FR 503			
-do-				
5/8/80	Bearing Pile, KM.0+084.00	Ave.3,399		-do-
	Feeder Road 501		(33 days)	
-do-	-do-		-do-	-do-
-do-	-do-		-do-	-do-
5/10/80	Pile Cap. km. 1+367.00	Ave.3,791		
	Feeder Road 501		(31 days)	-do-
-do-	-do-		-do-	-do-
-do-	-do-		-do-	-do-
5/16/80	Headwall km.5+500.00	Ave.3099		-do-
	Feeder Road 501		(25 days)	
-do-	-do-		-do-	-do-
-do-	-do-		-do-	-do-

II. b ROADS, BRIDGES AND DRAINAGE STRUCTURES

(Mataoroc-Manapao-Baliwag, Feeder Road 501)

Construction Survey

No activity during the month.

Earthwork

No activity during the month.

Subbase

No activity during the month.

Structures

1. Drive 0.35 x 0.35 M prestressed concrete piles for TbTe bridge at sta. 6+096.
2. Place concrete class "A" for coping of pile Bents No. 3 to 9 of TbTe bridge at sta 6+096.
3. Construct superstructure of TbTe bridge at sta 1+376.

Physical Accomplishment as of July 25, 1980.

a. Roads	b. Bridges
subgrade- 6.790	substructure - 13 span
subbase - 4.900	6 LM TbTe bridge on RC Abut.
base -	superstructure - 1 span
surfacing -	6 LM TbTe br. on RC Abut.

Drainage and Erosion Works

The following pipes have been installed as of July 25,1980.

SIZE	RCP INSTALLED (LM) Prev.Mo.	This Mo.	Total	Remarks
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	

STATION	NUMBER	SIZE	LENGTH
1 + 727.00	8	0.30 M	9.60 meters
2 + 147.00	6	0.30 M	7.20 "
2 + 587.00	6	0.30 M	7.20 "
2 + 656.00	6	0.30 M	7.20 "
2 + 800.00	6	0.30 M	7.20 "
4 + 495.00	13	0.30 M	15.60 "
T O T A L	45		54.00 meters
1 + 775.00	8	0.46 M	9.60 "
3 + 749.50	4	0.46 M	4.80 "
3 + 908.00	9	0.46 M	10.80 "
4 + 140.00	9	0.46 M	10.80 "
5 + 754.00	9	0.46 M	10.80 "
6 + 320.00	13	0.46 M	15.60 "
6 + 473.00	11	0.46 M	13.20 "
7 + 034.00	10	0.46 M	12.00 "
7 + 163.00	9	0.46 M	10.80 "
T O T A L	82		98.40 "
2 + 013.00	8	0.61 M	9.60 meters
0 + 650.00	9	0.91 M	10.80 "
1 + 550.00	10	0.91 M	12.00 "
3 + 150.00	9	0.91 M	10.80 "
3 + 034.00	9	0.91 M	10.80 "
4 + 750.00	8	0.91 M	9.60 "
T O T A L	45		54.00 meters
0 + 840.00	11	1.20 M	13.20 "
1 + 114.50 20	14	1.20 M 20	16.80 "
2 + 257.00	10	1.20 M	12.00 "
2 + 440.00 20	12	1.20 M 20	14.40 "
5 + 500.00	9	1.20 M	10.80 "
5 + 703.20	10	1.20 M	12.00 "
5 + 931.40	10	1.20 M	12.00 "
6 + 000.00	9	1.20 M	10.80 "
6 + 718.00	9	1.20 M	10.80 "
6 + 800.00	10	1.20 M	12.00 "
7 + 050.00	10	1.20 M	12.00 "
6 + 200.00	10	1.20 M	12.00 "
6 + 410.00	11	1.20 M	12.00 "
6 + 580.00	11	1.20 M 20	13.20 "
T O T A L	183		219.60 meters

Materials Testing and Control

ITEM	KIND OF TEST	NUMBER OF TEST Prev. No.	This No.	Total	REMARKS
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	
108	Grading	16	-	16	
	PL & LL	16	-	16	
	Compaction	16	-	16	
	F. Density	51	-	51	
402-2.2	Grading	2	-	2	
402-2.3	Grading	2	-	2	
	Design Mix	2	-	2	
405-2.2	Grading	-	1	1	
405-2.3	Grading	-	1	1	

II. c ROADS, BRIDGES AND DRAINAGE STRUCTURES

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

Construction Survey

No activity during the month.

Earthwork

No activity during the month.

Subbase and Base

No activity during the month.

Structures

No activity during the month.

Physical Accomplishment

a. Roads	Bridges
Subgrade - 2,037	Substructure - 3 span
Subbase - 1,500	6 LM TbTe bridge on RC
Base -	Abutment
Surfacing	Superstructure

Drainage and Erosion Works

The following pipes have been installed as of July 25, 1980

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	0.46 M	9.60 M
0 + 050.00	10	0.61 M	12.00 M
1 + 146.00	8	0.61 M	9.60 M
T o t a l	18		21.60 M
1 + 563.00 2 @	8	1.20 M	9.60 M

Materials Testing and Control

ITEM NO	KIND OF TEST	No. of Test Prev. Mo.	This Mo.	T o t a l
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	2	-	2
504-2.3 (CA)	Grading	2	-	2
405 cl. ("C")	Design Mix	2	-	2
402-2.5	Test Pile Report	1	-	1
108	Grading	2	-	2
	LL & PL	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

Sublase

No activity during the month.

Structures

No activity during the month.

Physical Accomplishment

a. Roads

Subgrade- 1.493

Sublase - 0.598

Base

Surfacing

b. Bridges

Substructure

Superstructure

Drainage and Erosion Works

The following pipes have been installed as of June 25, 1900.

SIZE	RCP INSTALLED (LM) Prev. No.	This No.	Total
0.61	32.40	-	32.40
0.91	10.00	-	10.00
1.20	21.60	-	21.60

52

STATION	NUMBER	SIZE	LENGTH
0 + 500.00	9	0.61 M	10.80 M
0 + 775.00	9	0.61 M	10.80 M
0 + 552.00	9	0.61 M	10.80 M
Total	27		32.40

0 + 050.00	9	0.91 M	10.80 M
0 + 927.00	9	1.20 M	10.80 M
0 + 106.00	9	1.20 M	10.80 M
Total	18		21.60 M

Materials Testing and Control

ITEM NO.	KIND OF ITEM	KIND OF TEST Prev. Mo.	This Mo.	Total	REMARKS
107	Grading	12	-	12	
	PL Ø LL	12	-	12	
	Compaction	12	-	12	
	F. Density	42	-	42	
105-B	Grading	2	-	2	
	LL & PL	2	-	2	
108	Grading	5	-	5	
	PL & LL	5	-	5	
	Compaction	5	-	5	
	F. Density	15	-	15	

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II. e ROADS, BRIDGES AND DRAINAGE STRUCTURES

(San*Jose* San Ramon, Feeder Road No. 504)

Construction Survey

No activity during the month.

Earthwork

No avtivity during the month.

Subbase and Base

No activity during the month.

Structures

Construct 0.80 x 0.80 x 8.00M RCBC at sta 0+302.50

Physical Accomplishment

a. Roads	Bridge
Subgrade - 1.943	Substructure - 3 span
Subbase - 1.940	6 LM TbTe bridge on RC Abut

Drainage and Erosion Works

The following pipes have been installed as of July 1980.

54

Drainage and Erosion Works

The following pipes have been installed as of July 25, 1980.

SIZE	RCP INSTALLED Prev. Mo.	This Mo.	Total	Remarks
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	0.61 M	9.60 M
0 + 860.00	10	0.61 M	12.00 M
Total	18		21.60 M
0 + 000.00	10	0.91 M	12.00 M
0 + 550.00	8	0.91 M	9.60 M
Total	18		21.60
0 + 325.00	8	1.20 M	9.60 M

Materials Testing and Control

ITEM NO.	KIND OF TESTS	NUMBER OF TESTS Prev.No.	This No.	Total	REMARKS
105-A	Grading	6	-	6	
	PL & LL	6	-	6	
	Compaction	6	-	6	
	F. Density	32	-	32	
107	Grading		-	4	
	PL & LL		-	4	
	Compaction		-	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	-	2	

COMMENTS AND RECOMMENDATION

With the completion of the pile driving in the 17 span TbTe bridge at sta. 6 + 096, the contractor was able to accomplish much in structures. Delivery of the lumber for the TbTe bridges is going on and construction of the superstructure of the 3 span TbTe bridge at sta 1 + 376 FR 501 was started already. However, activities on other items is slow due to the unfavorable weather prevailing in the locality.

WEATHER REPORT

Project: PILI*MATACROC ROAD PROJECT
Sub-Project No. 5

Date 1980	Weather	Remarks	Time Extension Recommended
June 26	Fair	Workable	none
27	Fair w/ light rain early PM	Workable	none
28	Intermittent rain	Unworkable	One (1) day
29	Rainy	Unworkable	One (1) day
30	Intermittent rain	Unworkable	One (1) day
July 1	Fair to cloudy w/ occasional rain	Unworkable	One (1) day
2	Fair	Workable	none
3	Fair to cloudy	Workable	none
4	Fair AM, light rain late afternoon	Workable	none
5	Fair w/ occasional rain	Workable	none
6	Fair w/ occasional shower	Workable	none
7	Fair	Workable	none
8	Cloudy w/ rainy AM	Unworkable	One (1) day
9	Rainy	Unworkable	One (1) day
10	Intermittent rain	Unworkable	One (1) day
11	Fair	Workable	none
12	Fair	Workable	none
13	Fair	Workable	none
14	Fair to cloudy	Workable	none
15	Intermittent rain	Unworkable	One (1) day
16	Intermittent rain	Unworkable	One (1) day
17	Fair	Workable	none
18	Fair	Workable	none
19	Fair	Workable	none
20	Rainy	Unworkable	One (1) day
21	Intermittent rain AM, cloudy PM	Unworkable	One (1) day
22	Fair to cloudy	Workable	none
23	Rainy	Unworkable	One (1) day
24	Rainy (typhoon Ozang)	Unworkable	One (1) day
25	Intermittent rain	Unworkable	One (1) day

Total Extension of Time Recommended this Month - - - - - 91 days
Total Extension of Time Recommended Previously - - - - - 160 "
Grand Total to Date - - - - - - - - - - - - - - - - - - - 251 "

Date of Effectivity of Contract - - - September 18, 1978

* Includes 77 days time extension due to fuel and oil shortage, scarcity of materials, etc.

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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 July 1980

	ADMINISTRATIVE FINANCE	ENGINEERING TECHNICAL	SKILLED	UNSKILLED
Manila - Based 1/	5	1	12	0
Local - Hired 2/	2	7	16	1
Sub-Contractors 3/	0	0	0	0
Total	7	8	28	1

1/ Includes permanent employees

2/ Employees residing within the Basin Area

3/ Local Hired Only

Submitted by:

Emilio G. Angeles
Project Engineer

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

LIST OF PERSONNEL
As of July, 1980

Name	Position	Qualification
I. TECHNICAL STAFF		
1. Ramon Bautista	Project Manager	Civil Engineer
2. Emilio Angeles	Project Engineer	-do-
3. Emiliano Galves	Mechanical Engineer	Mechanical Engineer
4. Lorna Vellarey	CE Aide	Experienced
5. Eduardo Lopez	CE Aide	Expereinced
6. Antonio Alapan	Const. Foreman	-do-
II. ADMINISTRATIVE STAFF		
1. Remegio Espada	Adm. Officer	A.B. Graduate
2. Rossana Espada	Clerk/Typist	Experienced
3. Mario Yulip	Courier	-do-
4. Antonio Lapastora	Materials Checker	-do-
III. MECHANICAL DEPARTMENT		
1. George Magsalang	Shop Supervisor	Experienced
2. Quirico Marjolino,Jr.	Mechanic	-do-
3. Victor Sandagon	Batteryman	-do-
4. Wenceslao Belano	Tireman	-do-
5. Melchor Serrano	Fuel Tender	-do-
IV. DRIVERS		
1. Benjamin Obrero	D.T. Driver	Experienced
2. Roden Jayco	Service Driver	-do-
3. Flor Barra	-do-	-do-

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V. SURVEY TEAM

1. Pedro Collada	Instrument Man	Experienced
2. Santos Temporal	Chainman	-do-
3. Pedro Olivares	Survey Aide	-do-

VI. LABORATORY

1. Santiago Nacario	Laboratory	Experienced
2. Pedro Preconcillo	-do-	-do-
3. Loreto San Buenaventura	-do-	-do-

VII. HEAVY EQUIPMENT OPERATORS

1. Virgilio Tosposo	Crusher Operator	Experienced
2. Quintin Elemos	Crane Operator	-do-
3. Lemeul Moreno	-do-	-do-
4. Pedro Custerio	Dynapac Operator	-do-
5. Jose Harochoc	Grader Operator	-do-

VIII. RCP WORKERS

1. Roberto Dawal	Mason	Experienced
2. Salvador Dawal	-do-	-do-
3. Ernesto Bata	Laborer	-do-

IX. BRIDGE GANG

1. Alberto Bayos	Carpenter/Mason	Expereinced
2. Gaudencio Larcena	-do-	-do-
3. Inocentes Laydero	-do-	-do-
4. Romulo Villalus	Riggerman	-do-
5. Armando Asma	-do-	-do-

Submitted by:

(sgd.) RAMON M. BAUTISTA
Project Manager

Annex "B"

A.B. AGUINALDO CONSTRUCTION, INC.
Pili*Mataoroco Road Project
Sub*Project No. 5
Pili*, Camarines Sur

LIST OF EQUIPMENTS
As of July, 1980

1 unit - [illegible]

1 unit - Bulldozer D7 Caterpillar

1 units- Payloader, 950 Caterpillar

1 unit - 32 - Ton Truck Mounted Crane

1 unit - Road Grader, Caterpillar

1 unit - Kobe - 25 Pile Hammer

[illegible]

1 unit - Welding Machine, Continental

1 unit - Self-propelled vibro compactor, Dynapac CA-25

1 unit - Generator, 3KW, Yanmar Diesel Engine driven

1 unit - 1 HP Goulds Water pump, 4 HP Kholer Engine Driven

1 unit - 1 Bagger Concrete Mixer

1 unit - Bar Cutter

1 unit - 1½ Ton Drop Hammer

3 units - Toyota Hi-Lux (Service Vehicle)

1 unit - 6 - Wheeler Dump Truck, Isuzu

2 units - 10 wheeler dump truck, Isuzu

1 unit - Rock crusher, primary and secondary

Annex "C"

LIST OF LABORATORY EQUIPMENTS
As of July, 1980

8 - inch Brass Sieve Size 3"	1	ea.
8 - inch Brass Sieve Size 2½	1	ea.
8 - inch Brass Sieve Size 2"	1	ea.
8 - inch Brass Sieve Size 3/4"	1	ea.
8 - inch Brass Sieve Size ½"	1	ea.
8 - inch Brass Sieve Size 1/8"	1	ea.
8 - inch Brass Sieve Size #4	1	ea.
8 - inch Brass Sieve Size #8	1	ea.
8 - inch Brass Sieve Size #10	1	ea.
8 - inch Brass Sieve Size #16	1	ea.
8 - inch Brass Sieve Size #30	1	ea.
8 - inch Brass Sieve Size #40	1	ea.
8 - inch Brass Sieve Size #50	1	ea.
8 - inch Brass Sieve Size #100	1	ea.
8 - inch Brass Sieve Size #200	1	ea.
8 - inch Dia, Brass Cover less ring	1	ea.
8 - inch Dia, Brass pan	1	ea.
8 - inch Wet washing sieve #200	1	ea.
Sample splitter 2" chute width	1	ea.
Sample splitter 1 chute width	1	ea.
Heavy Duty solution Balance, 1 gram se,	1	ea.
Triple Beam Balance, 0.1 gram sen.	1	ea.
Micrometer Poise Balance, 0.5 gram sen.	1	ea.
Drying Oven	1	ea.
2 - Burner LPG Stove w/ regulator and tank	1	ea.
Volumentric Flask, 50 ML	5	pcs.
Volumetric Flask, 500 ML	3	pcs.
Liquid Limit Device w/ Grooving Tool	2	pcs.
Plastic [illegible]	2	pcs.
Rectangular pan 4' x 2" x 10	8	pcs.
Square Pan 18" x 18"	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 [illegible]	2	pcs.

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Yield Buckets, 1/10 cu. ft.	2	pcs.
Yield Buckets ½ cu.ft.	1	ea.
Tampering Rod	1	ea.
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 2.40 M	1	ea.
Simple Wooden Chairs	6	
Wooden Office Desks	3	pcs.
Counter with G.I. sink	1	set
Wooden Filing Cabinet	1	ea.

LIST OF OFFICE EQUIPMENTS
As of July 1980

Typewriter, 13" Carriage (Olympia	1	ea.
Wooden Office Desk	5	pcs.
Simple Wooden Chairs	[illegible]	pcs.
Typist Desks	2	pcs.
Drafting Tool	1	ea.
Drafting Tool	1	ea.
Wooden Filing Cabinet	1	ea.

Best Available Document

PAY ITEM	DESCRIPTION	ESTI SCHEDULED	ATED % ACCOM PROJECT
1.60.2	Provide and Maintain Lab. and Office for Engineer	0.22606	0.3058
1.60.3	Provide and Maintain one (1) four wheel drive vehicle for Engr.	0.39111	0.3911
1.60.4	Provide and Maintain one (1) unit Utility vehicle for Engineer	0.16948	.1694
1.60.4-1	Maintain, Operate & Repair for one utility vehicle for Engineer	0.07301	0.0730
1.60.5	Laboratory and Office Equipment for Engineer (As listed)	0.31289	0.3128
100	Clearing and Grubbing	0.93573	0.9357
105	Roadway and Drainage Excavation	2.80556	2.3059
105-4	Excavation of unsuitable Materials	7.30136	9.0851
106	Excavation for Structures	0.23955	0.2232
107	Borrow	22.26691	23.9575
107-1	Borrow	19.10307	23.4643
108	Aggregate Sub-base	17.37571	4.5440
110	Foundation Fill	0.04302	0.0411
111	Overhaul (300 M.) Freehaul	0.00133	0.0013
200	Aggregate Base Course	4.85367	2.7485
302	Medium Curing Cutback Asphalt, Grade MC-1 for Bit. Pr. Coat	1.72479	
314-1	Aggregate Material for BST (Hot Asphalt Type)	0.90659	
314-3	85-100 Penetration Asphalt Cement for BST (Hot Asphalt Type)	3.31335	
401	Timber (Detour) Trestle (Superstructure only) on conc. Pile Bent	2.30754	0.0769
402.5	Precast Concrete Piles	5.74018	5.3149
402.5-1	Concrete Test Piles (Furnish and Drive)	0.84740	0.8474
403	Concrete Railing	0.01825	0.0182
405	Concrete Class "A" (Miscellaneous)	2.64460	0.9684
405-1	Concrete Class "A" (Bridge)	0.77244	0.5819
406	Reinforcing Steel	1.47931	0.7514
413	0.30 M. Ø Reinforced Concrete Pipes	0.14839	0.1497
413-1	0.46 M. Ø Reinforced Concrete Pipes	0.31403	0.2966
413-2	0.60 M. Ø Reinforced Concrete Pipes	0.13741	0.3271
413-3	0.90 M. Ø Reinforced Concrete Pipes	1.30820	1.1976
413-4	1.20 M. Ø Reinforced Concrete Pipes	2.10964	2.1823
500	Riprap and Grouted	0.04172	0.0417
510	Right of Way Marker	0.08762	
			.3139

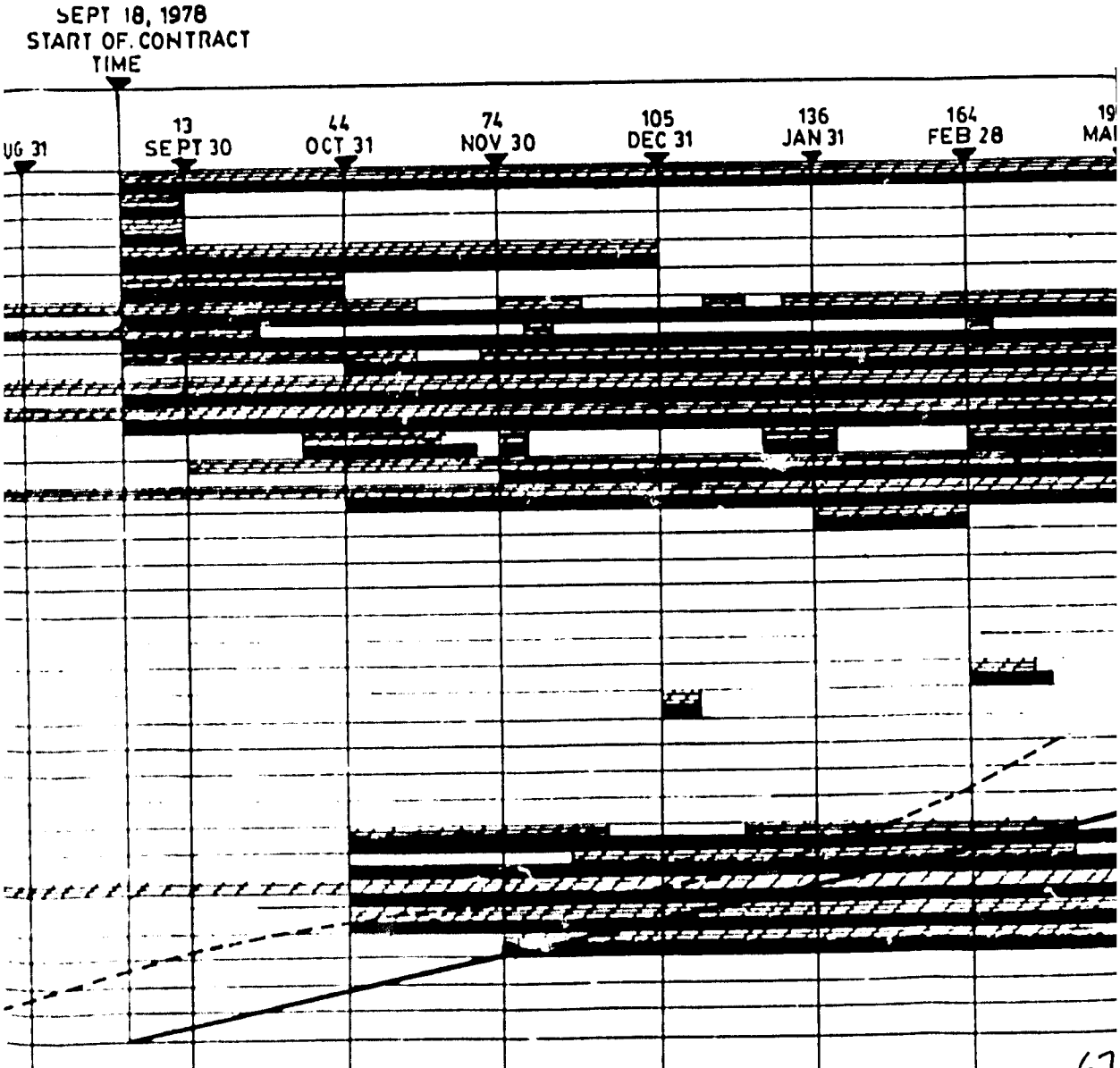
ERCENT

AUG 1, 1978
ACTUAL STARTING DATE

ESTIMATED % WEIGHT ILED	ACCOMPLISHED PROJECT	ACCOMPLISHED ITEM	QUANTITY	UNIT COST	AMOUNT		AUG
06	0.30585	135.29	17 Mos.	2,040.00	34,680.00		
11	0.59110	100.00	1	60,000.00	60,000.00		
48	0.16948	100.00	1	26,000.00	26,000.00		
21	0.07301	100.00	4 Mos.	2,800.00	11,200.00		
19	0.31289	100.00	1	48,000.00	48,000.00		
73	0.93573	100.00	31.90 Mos.	4,500.00	143,550.00		
56	2.30590	82.19	21,520 Cu.M.	20.00	430,400.00		
18	9.08519	124.43	38,960 Cu.M.	28.75	1,120,100.00		
15	0.22328	93.21	1,750 Cu.M.	21.00	36,750.00		
91	23.95756	107.59	116,985 Cu.M.	29.20	3,415,962.00		
07	23.46439	122.83	85,690 Cu.M.	34.20	2,930,598.00		
71	14.54403	83.70	46,765 Cu.M.	57.00	2,665,605.00		
02	0.04111	95.56	165 Cu.M.	40.00	6,600.00		
53	0.00130	98.00	680 Cu.M.	0.30	204.00		
57	2.74852	56.63	12,810 Cu.M.	60.00	744,600.00		
79			84 M.T.	3,150.00	264,600.00		
19			1,159 M.T.	120.00	139,080.00		
15			170 M.T.	2,990.00	508,300.00		
14	0.07692	3.33	30 Span	11,800.00	354,000.00		
18	5.31491	92.59	1,258 L.M.	700.00	880,600.00		
10	0.84740	100.00	10 ea.	13,000.00	130,000.00		
15	0.01825	100.00	20 L.M.	140.00	2,800.00		
18	0.96841	36.62	588 Cu.M.	690.00	405,720.00		
4	0.58199	75.34	150 Cu.M.	790.00	118,500.00		
1	0.75147	50.80	32,890 Kgs.	6.90	226,941.00		
19	0.14971	100.69	157 L.M.	145.00	22,765.00		
13	0.29665	94.47	235 L.M.	205.00	48,175.00		
1	0.32712	238.06	62 L.M.	340.00	21,080.00		
0	1.19766	91.55	329 L.M.	610.00	200,690.00		
4	2.18238	103.45	348 L.M.	[illegible].00	323,840.00		
2	0.04172	100.00	40 Cu.M.	160.00	6,400.00		
2			286 ea.	47.00	13,442.00		
	91.31393 %	AS OF JULY 25, 1980			15,340,982.00		

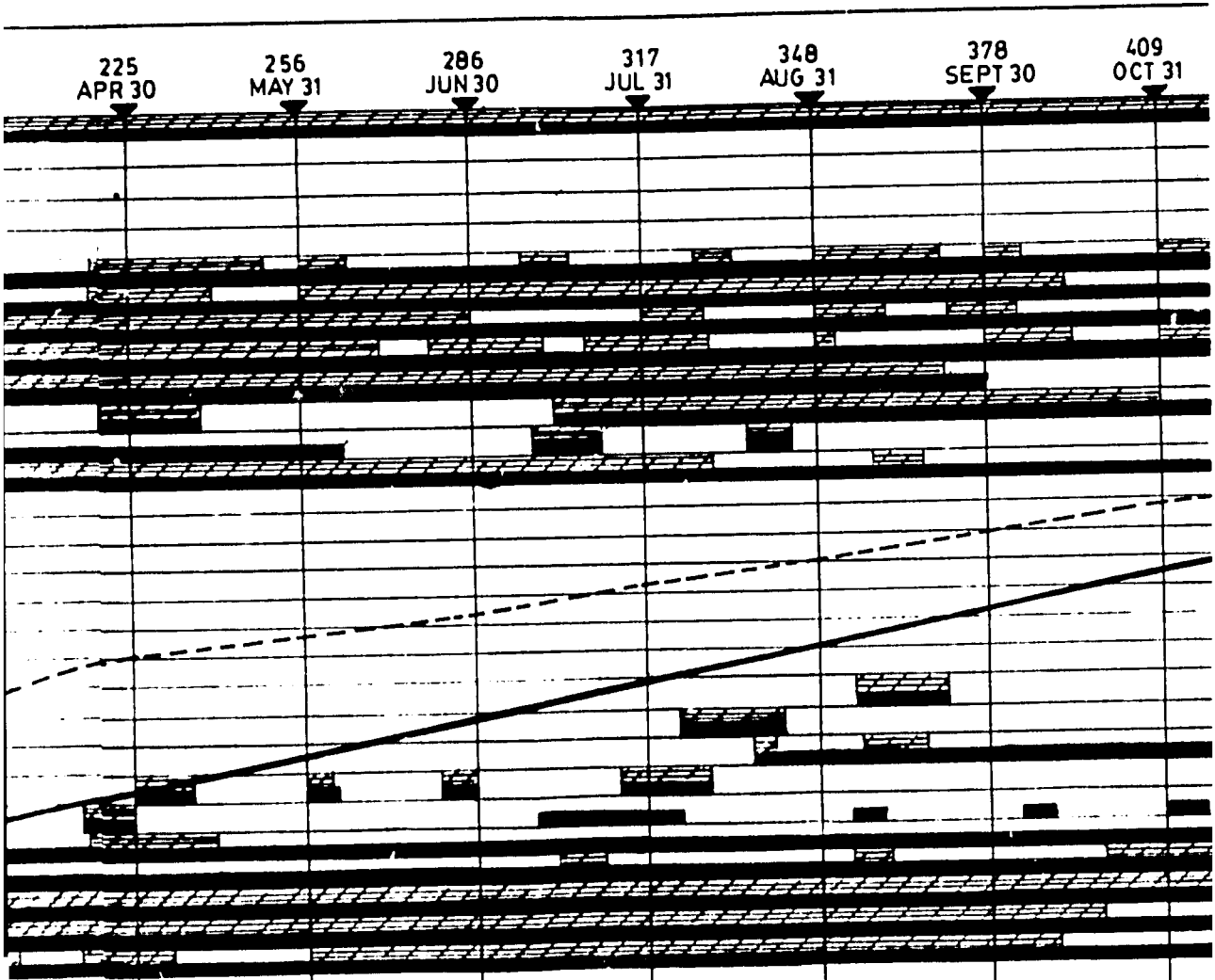
PERCENTAGE TIME ELAPSED = 85.54216 %

REVISED
PILI-1

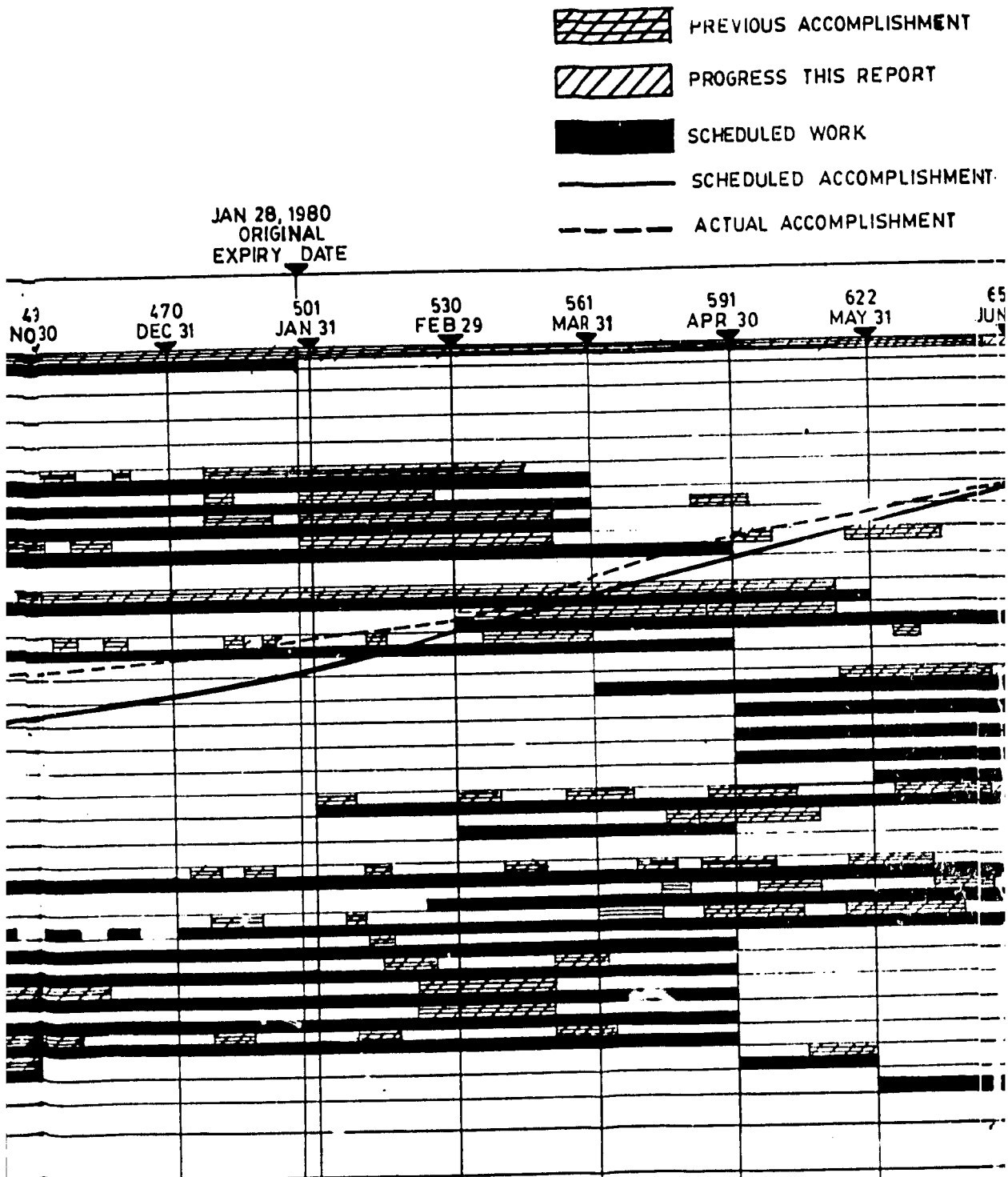


234,057.02	385,773.10	554,137.80	718,506.18	801,687.45	659,379.62	934,422.41
234,057.02	619,830.12	1,173,967.92	1,892,474.10	2,694,161.55	3,353,541.17	4,287,963.58

AR SCHEDULE OF WORK
TAOROC ROAD SECTION



00,061.12	711,454.74	422,793.19	621,091.84	686,754.95	682,743.84	369,263.29	3
088,024.70	5,799,479.44	6,242,272.63	6,863,364.47	7,550,118.42	8,232,863.26	8,602,126.55	8,



69	377,841.37	393,944.01	516,632.32	807,072.23	847,845.63	978,574.91	847,109.67
.24	9,345,319.61	9,739,263.62	10,255,895.94	11,062,968.17	11,910,813.80	12,889,388.71	13,736,497.38

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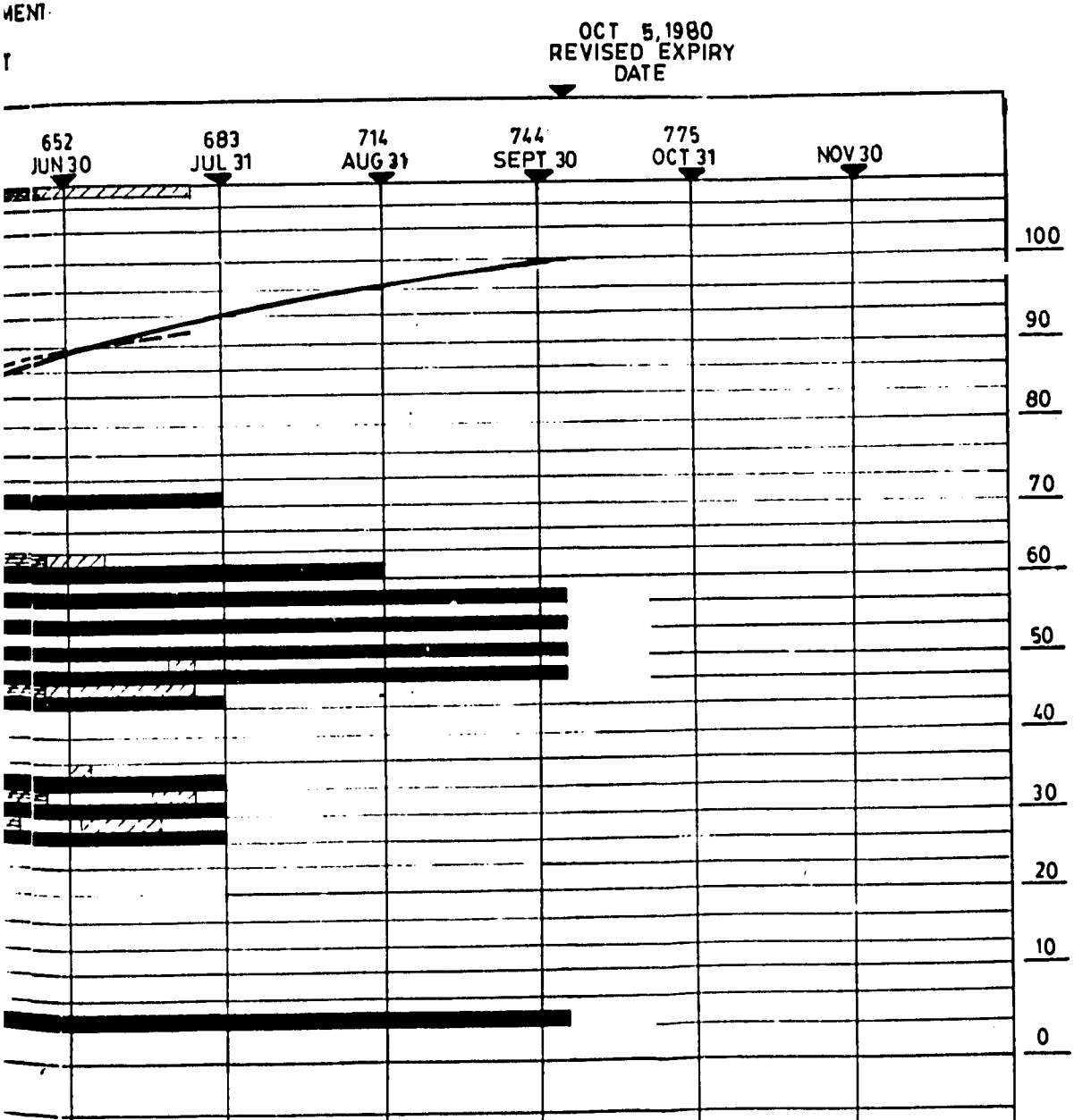

9.67	858,733.30	409,751.27	252,211.63	83,788.27
97.38	14,595,230.68	15,004,981.95	15,257,193.63	15,340,982.00

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BICOL RIVER BASIN DEVELOPMENT PROJECT
(ROAD COMPONENTS)
MANPOWER SCHEDULE OF CONSULTANT'S STAFF FOR CONSTRUCTION SUPERVISION
PACKAGE II

		1 Aug	2 Sept	3 Oct	4 Nov	5 Dec	6 Jan	7 Feb	8 Mar	9 Apr	10 May	11 June	12 July	13 Aug	14 Sept	15 Oct	16 Nov	17 Dec	18 Jan	19 Feb	20 Mar	21 April	22 May	23 June	24 July	25 Aug	26 Sept	27 Oct	28 Nov	29 Dec	30 Jan	31 Feb	MEN MONTHS
A.E. BANDELARIA	DEPUTY PROJ MANAGER																																29
L.D. MAYOR	SR. HIGHWAY ENG'R / R.E.																																29
F.G. OBUSAN	SR BRIDGE ENG'R / R.E.																																29
M.D. LACSAMANA	SR. LOC. ENGINEER																																29
J.A. TORRALBA	SR. MATLS. ENG'R / R.E.																																29
F.C. ROSALES	ADMINISTRATIVE OFFICER																																29
LYDIA P. JOSE	CLERK / TYPIST																																29
T.S. SABABAN	JANITOR/MESSENGER																																29
																																	232
																																	SUB-TOTAL

SUB-PROJECT No 5, PILI-MATAOROC ROAD

F.G. OBUSAN	SR. BRIDGE ENG'R / R.E.																																29
M.B. DELFIN	MATERIALS ENGINEER																																29
DANILO V. FILIO	ENGINEER INSP. (HWY.)																																12
E.L. REYES	ENGINEER INSP. (BR.)																																29
A.P. ESPAÑO	SURVEYOR-DRAFTSMAN																																29
F.V. YBAROLA	LAB. TECHNICIAN																																29
P.B. ALVAREZ	CLERK - TYPIST																																29
R. CABALLERO	JANITOR / MESSENGER																																29
S.B. JEREMIAS	LABORER																																29
																																	215
																																	SUB-TOTAL

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Bicol River Basin Development Project

Secondary and Feeder Roads

PACKAGE II

PALISTINA-SAN ANTONIO-MINAL BAC ROAD PROJECT

Sub-Project No. 6

MONTHLY CONSTRUCTION REPORT

No. 9

Prepared by:

VICENTE B. ZAÑO
Resident Engineer

Submitted by:

AMADO B. BANDELARIA
Deputy Project Manager

PROGRESS REPORT
No. 9

July, 1980

I. GENERAL

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

Maydaso - Taririk - Barcelona - 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 expected 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 8.21681 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 a 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 spanning the Bicol

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river will enable an easy access to Minalabac town proper. The feeder road, will serve the barangays of Maydaso, Taririky 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 road, drainage structures consist of RCP's, of different stations, one timber trestle of seven (7) spans over Tariric 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 rice-land. The existing road within the locality just spans from Palistina up to Maydaso and were made of 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 the Palistina-San Antonio-Minalabac road project, sub-project no. 6 will make a dream become reality.

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2. PROGRESS

Hauling of item 108 and item 107 was the major item done by the contractor for the period.

	% Accomplished to Date
Palistina - Minalabac (Secondary)	25.5916
Maydase - Taririk - Baras (Feeder)	1.6884
Total	27.2800

Time elapsed - 46.897 %

A. Secondary Road

1. Earthwork - hauling of item 107

   a. Sta. 3 + 275 to Sta. 3 + 850

   b. Sta. 4 + 000 to Sta. 4 + 500

   Deliveries on those sections are final and on grade elevation.

2. Aggregate Sub-base (item 108)

   a. Sta. 0 + 300 to Sta. 0 + 425

   b. Sta. 0 + 575 to Sta. 0 + 875

   c. Sta. 1 + 825 to Sta. 2 + 025

   d. Sta. 2 + 100 to Sta. 2 + 450

   e. Sta. 3 + 925 to Sta. 4 + 375

   Deliveries on those sections were initial and are on progress.

3. Structures

   No activity during the month.

4. Survey

   Establishing elevation control.

B. Feeder Road No. 601

1. Earthwork

No activity.

2. Structures

No activity.

3. Survey

No activity.

Materials Testing and Control

Tabulated herebelow are the various tests performed for the project.

Palistina - San Antonio - Minalabac Road

Secondary Road

ITEM	KIND OF TEST	STATUS 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 Test	18	0	18	"
105-4	Grading	14	0	14	Along right-of-way
	PL & LL	14	0	14	"
	Compaction	14	0	14	"
	Field Density Test	18	0	18	"
107	Grading	40	3	43	Maydaso Quarry
	PL & LL	40	3	43	"
	Compaction	14	1	15	"
	Field Density Test	56	2	58	"
	Soil Classification	40	3	43	"
108	Grading	29	10	39	San Juan Quarry
	PL & LL	29	10	39	"
	Compaction	8	2	10	"
	Field Density Test	13	6	19	"

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Maydaso - Taririk - Malitbog - Baras Road

Feeder Road

ITEM	KIND OF TEST	STATUS OF TEST Prev.Mo.	This Mo.	Total	Remarks
105	Grading	2	0	2	Along right-of-way
	PL & LL	2	0	2	"
	Soil Classification	2	0	2	"
	Compaction	2	0	2	"
	Field Density Test	2	0	2	"
105-4	Grading	2	0	2	Along right-of-way
	PL & LL	2	0	2	"
	Soil Classification	2	0	2	"
	Field Density Test	2	0	2	"
107	Grading	17	0	17	Maydaso Quarry
	PL & LL	17	0	17	"
	Compaction	5	0	5	"
	Field Density Test	12	0	12	"
	Soil Classification	17	0	17	"

COMMENTS AND RECOMMENDATIONS

Two typhoons hit the whole region and it has affected very badly the construction of the project.

Hauling of item 107 and 108 were greatly minimized due to non passability of service road to quarry.

WEATHER REPORT
As of July 25, 1980

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

Date	Weather	Remarks	Time Extension Recommended
June 26	Fair	Workable	None
27	Rainy	Unworkable	One (1) day
28	Rainy	Unworkable	One (1) day
29	Rainy	Unworkable	One (1) day
30	Rainy	Unworkable	One (1) day
July 1	Rainy	Unworkable	One (1) day
2	Rainy	Unworkable	One (1) day
3	Cloudy to 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	Fair	Workable	None
14	Rainy	Unworkable	One (1) day
15	Rainy	Unworkable	One (1) day
16	Fair to cloudy	Workable	None
17	Fair	Workable	None
18	Fair	Workable	None
19	Rainy	Unworkable	One (1) day
20	Rainy	Unworkable	One (1) day
21	Rainy	Unworkable	One (1) day
22	Rainy	Unworkable	One (1) day
23	Rainy	Unworkable	One (1) day
24	Rainy	Unworkable	One (1) day
25	Rainy	Unworkable	One (1) day

TOTAL EXTENSION OF TIME RECOMMENDED THIS MONTH - - - - - - - 15 days
TOTAL EXTENSION OF TIME RECOMMENDED PREVIOUSLY - - - - - - 49 days
GRAND TOTAL TO DATE - - - - - - - - - - - - - - - - - - - 64 days

DATE OF EFFECTIVITY OF CONTRACT - - - - November 12, 1979
TIME ELAPSED - - - - - - - - - - - - - - - - 46.89 %

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

EMPLOYMENT GENERATION SURVEY (SS3)

NAME OF PROJECT MOBER CONTRACTOR, INC.

FOR THE MONTH OF ____ JULY 25 19 80

	ADMINISTRATIVE FINANCE	ENGINEERING TECHNICAL	SKILLED	UNSKILLED
MANILA BASED 1/	2	1	16	
LOCAL - HIRED 2/	1	3	2	10
SUB-CONTRACTORS 3/				
TOTAL	3	4		10

1/ Includes permanent employees

2/ Employees residing within the Basin Area

3/ Local Hired Only

pure*
ej1***

Submitted by:

[illegible]
Project Engineer

Best Available Document

Annex "A"

PROJECT WORKS CONTRACTOR, INC.
Palistina - San Antonio - Minalabac Road
Camarines Sur

LIST OF PERSONNEL

NAME	POSITION	QUALIFICATION
	I. TECHNICAL STAFF	
1. Crisencio H. Calalang	Project Engineer	Civil Engineer
2. Julio E. Acabado	Office Engineer	CE Graduate
	II. ADMINISTRATIVE STAFF	
1. Sergia M. Mallari	Administrative Officer	B. S. C.
2. Leonardo L. Bernardino	Project Accountant	B. S. C.
3. Cyrel G. Cea	Clerk/Typist	Experienced
	III. MECHANICAL	
1. Ernesto Portes	Chief Mechanic	Experienced
2. Frank dela Cruz	Mechanic	- do -
3. Alberto dela Cruz	Helper Mechanic	- do -
4. Nestor Santos	Fuel Tender	- do -
	IV. SURVEY TEAM	
1. Pastor Aguila	Instrumentman	Experienced
2. Franklin Elgar	Chainman	- do -
3. Winefrodo Gamban	Rodman	- do -
4. Lorenzo Bañaga	Survey Aide	- do -
	V. LABORATORY	
1. Odelon Alwina	Laboratory Technician	Experienced
2. Isagani Alvina	Laboratory Aide	- do -
	VI. DRIVER AND OPERATOR	
1. Virgilio Paoual	H.E. Operator	Experienced
2. Corilo Gonzales	- do -	- do -
3. Leandro de Guzman	- do -	- do -
4. Rodolfo de Guzman	- do -	- do -
5. Jun Bartolome	- do -	- do -
6. Larry Bartolome	- do -	- do -
7. Antonio Gavino	H.E. Driver	- do -
8. David Sola	- do -	- do -
9. Dario Cabante	- do -	- do -
10. Efren Pontillas	- do -	- do -
11. Bayani Bernabe	- do -	- do -

12. Henry de Lara	H.E. Driver	Experienced
13. Elmer de Guzman	- do -	- do -

VII. HIGHWAY AND STRUCTURE

1. Pablito Baluyot	Foreman (Highway)	Experienced
2. Greg Rosanes	Checker (Materials)	- do -
3. Sonny Hernandez	- do -	- do -
4. Edgardo Tosoc	Timekeeper	- do -

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Annex "B"

PROJECT WORKS CONTRACTOR, INC.
Palistina - San Antonio - Minalabac Road
Camarines Sur

LIST OF EQUIPMENT

2 units - Bulldozer D - 7 Caterpillar

2 units - Payloader JH - 65, Michigan

2 units - Road Grader - Caterpillar (Mechanical)
Huber Warco

2 units - Road Roller - Sakai, Watanabe

1 unit - One bagger mixer

1 unit - Two bagger mixer

1 unit - H 22 Pile Hammer

1 unit - Crane (25 tons) Truck Mounted

1 unit - Bar Cutter

1 unit - Water Truck

1 unit - 10 Wheeler (FUSO)

6 units - 6 Wheeler (Dump Truck)

1 unit - Toyota Tamaraw (Service)

82

LIST OF LABORATORY EQUIPMENTS
As of July , 1980

DESCRIPTION	QUANTITY	UNIT
8 - inch Brass ~~Sieve Size 3"~~	1	each
8 - inch Brass Sieve Size 2"	1	ea.
*8 - inch Brass Sieve Size 2.5"	1	ea.
8 - inch Brass Sieve Size 1.5	1	ea.
8 - inch Brass Sieve Size 1"	1	ea.
8 - inch Brass Sieve Size ¾"	1	ea.
8 - inch Brass Sieve Size ½"	1	ea.
8 - inch Brass Sieve Size 3/8"	1	ea.
8 - inch Brass Sieve # 4	1	ea.
*8 - inch Brass Sieve # 10	1	ea.
*8- inch Brass Sieve # 20	1	ea.
*8 - inch Brass Sieve # 30	1	ea.
8 - inch Brass Sieve # 40	1	ea.
8 - inch Brass Sieve # 50	1	ea.
8 - inch Brass Sieve # 100	1	ea.
8 - inch Brass Sieve # 200	1	ea.
Sample Splitters, 2.5 chute width	1	ea.
Heavy Duty Solution Balance, 1 gm. Sensitivity	1	set
Triple Beam Scale 0.1 gm. Sensitivity	1	set
Micrometer Poise Balance 0.5 gm.	1	set
Oven Circulated Fan	1	ea.
Sand Absorption Cone and Tamper	1	ea.
Pycnometer Top and Jar	1	set
Volumetric Flask, 500 ml.	5	ea.
Liquid Limit Device with Grooving Tool	2	set
Plastic Limit Set	2	set
Moisture Cans, 3 Ounces	5	doz.
Modified Compaction Mold, 1/12.33	1	set
Proctor Compaction Mold, 1/30	1	set
Compaction Hammer, 10 lbs.	1	set
Compaction Hammer, 5.5 lbs.	1	set
Sand Density Cone w/o 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.	1	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 percentage is 98%.

90

PAY ITEM	DESCRIPTION	ESTIMA SCHEDULE
1.60.1	Provide and Maitain Office and Lab. for Engineer	.00
1.60.2	Provide one (1) Unit Utility Vihicle for Engineer	4.66
1.60.4	Lab. and Office Equipment for Engineer	.86
100	Clearing and Grubbing	1.22
103-1	Removal of Bridge	0.09
103-2	Removal of Culvert	0.02
105-SR	Roadway and Drainage Excavation	2.81
105-FR	Roadway and Drainage Excavation	0.53
105-4	Excavation of Unsuitable Materials	2.75
106	Excavation for Structure	0.60
107	Borrow	331797
108	Aggregate Sub-base	20.52
110	Foundation Fill	0.05
200	Aggregate Base Course	6.46
302	Bit. Prime Coat Grade-MC-1	2.20
314-1	Aggregate Materials for BST	1.26
314-3	Asphalt Cement 85-100 Penetration	4.35
401	Timber Trestle on Concrete Pile Bents	1.72
402-2.5	Precast Concrete Piles	6.39
402-2.5a	Concrete Test Piles	1.08
403	Concrete Railings	0.16
405	Concrete Class "A" (Miscellaneous)	1.28
405-1	Concrete Class "A" Bridge	2.85
406	Reinforcing Steel	.13
413	0.30M. Ø Reinforced Concrete Pipes	0.03
413-1	0.46 M. Ø Reinforced Concrete Pipes	0.12
413-2	0.60M. Ø Reinforced Concrete Pipes	2.45
413-3	0.90M. Ø Reinforced Concrete Pipes	0.36
413-4	1.20M. Ø Reinforced Concrete Pipes	0.37
500	Rip-rap and Grouted	0.09
501	Hand Laid Rock Emb.	373
510	Right of way Markers	23
	TOTAL	
		CASH F
		CUMULAT

PALISTINA

START OF CONTR

ITED % WEIGHT ACCOMPLISLED PROJECT	ITEM	QUANTITY	UNIT COST	AMOUNT		NOV. 18 1971
0.5000	50.000	18 mos.	2,500	45,000.0		
0.6666	100.000	L.S.	L.S.	30,000.0		
1.7360	93.000	L.S.	L.S.	84,000.0		
1.8263	67.309	17.13 Has.	3,225.0	55,244.25		
		1 each	4,125.0	4,125.0		
		3 each	367	1,101.0		
2.5920	92.176	11,100M³	11.40	126,540.0		
		1,900M³	12.75	24,225.0		
1.7129	62.121	13,200M³	9.40	124,080.0		
		2,400M³	15	36,000.0		
15.0421	44.512	86,400M³	17.60	1,520,640		
4.2025	20.474	31,850M³	29.0	923,650		
		50M²	45.0	2,250.0		
		6,900M³	42.0	289,800		
		42 M.T.	2,360	99,120		
		575M³	97.60	56,120		
		83 M.T.	2,360	195,880		
		10 Span	7,687	76,870		
		590 L.M	488	287,920		
		5 each	9,600	48,000		
		60 L.M.	120	7,200.0		
		100 M³	570	57,000		
		174.6M³	735	128,331		
		17,371 Kg	5.50	95,540.50		
		11 L.M	142	1,562.0		
		26 L.M	218	5,668		
		386 L.M.	285	110,010		
		32 L.M	502	16,064		
		22 L.M	772	16,984		
		30 M³	120	3,600		
		150M³	112	16,800		
		294 sq.	36	10,584		
27.2800 AS OF JULY 25, 1980						
FLOW					1125	88,27
ITIVE TOTAL AMOUNT						89,39

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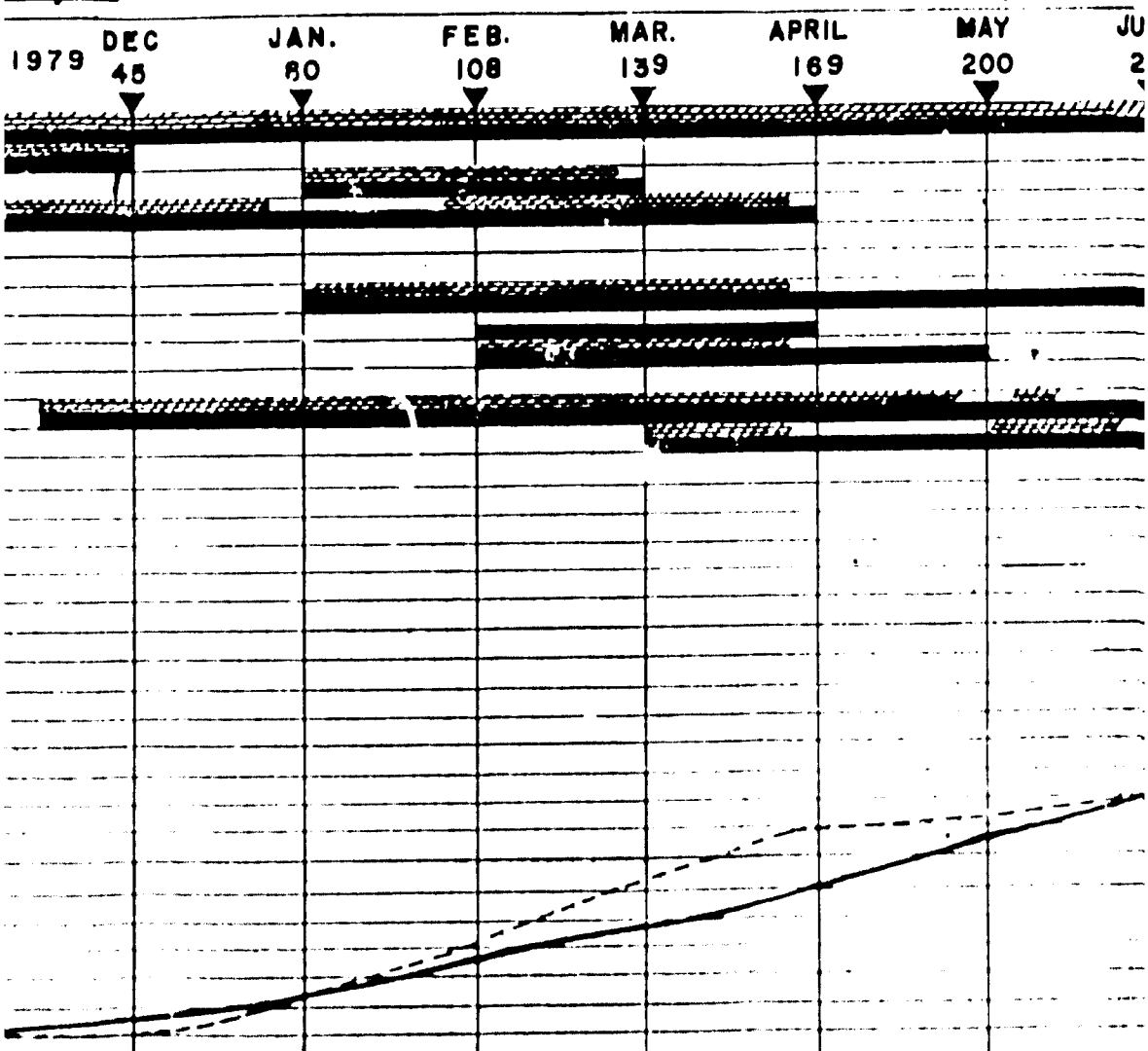
BAR SCHEDULE OF WORK
OF
NA-SAN ANTONIO-MINALABAC ROAD SE

ONTRACT

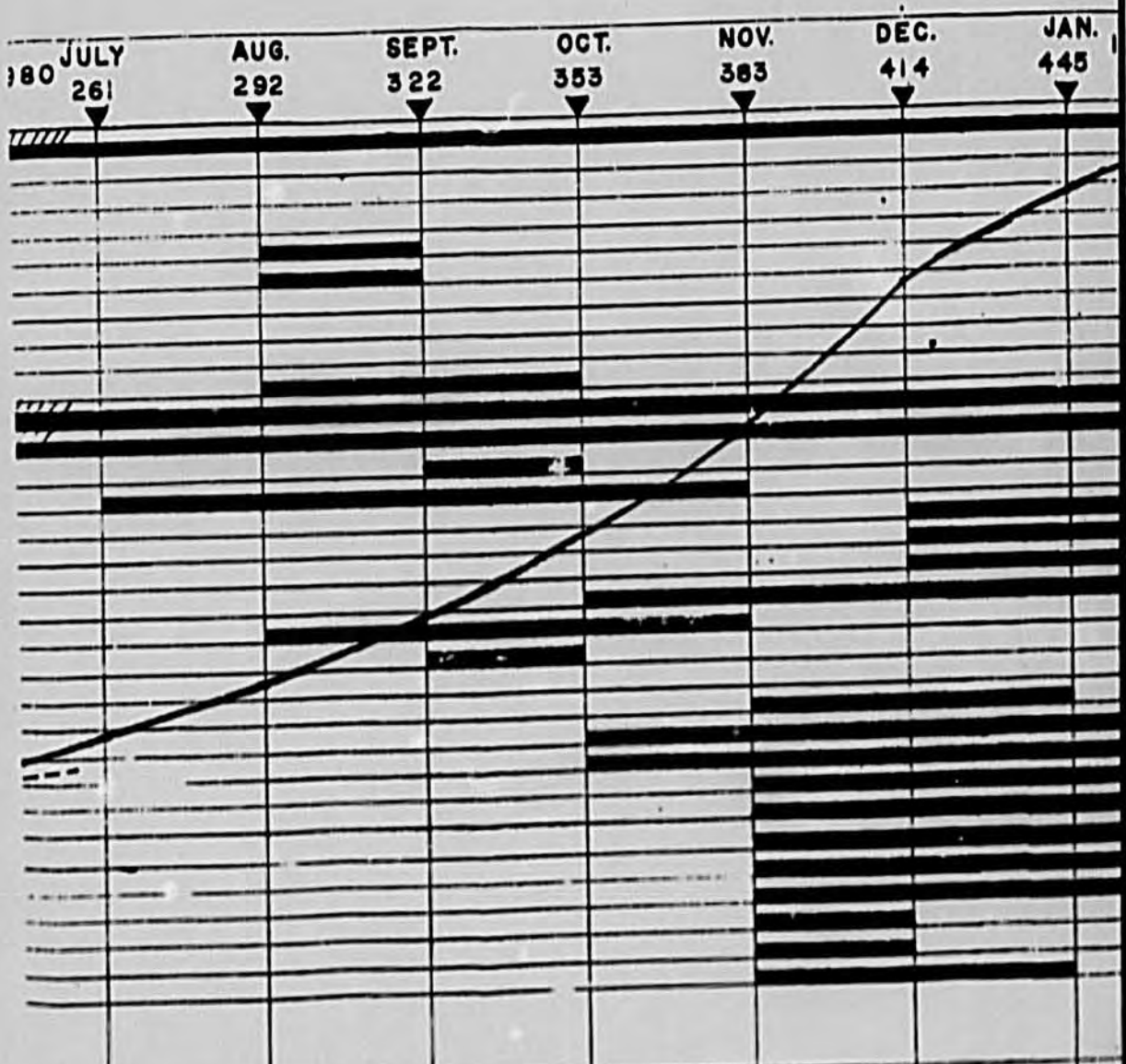


8,272	102,997	166,087	219,559	248,609	236,46[illegible]	195,138
0,397	102,394	368,481	579,040	826,649	1,063,147	1,258,285

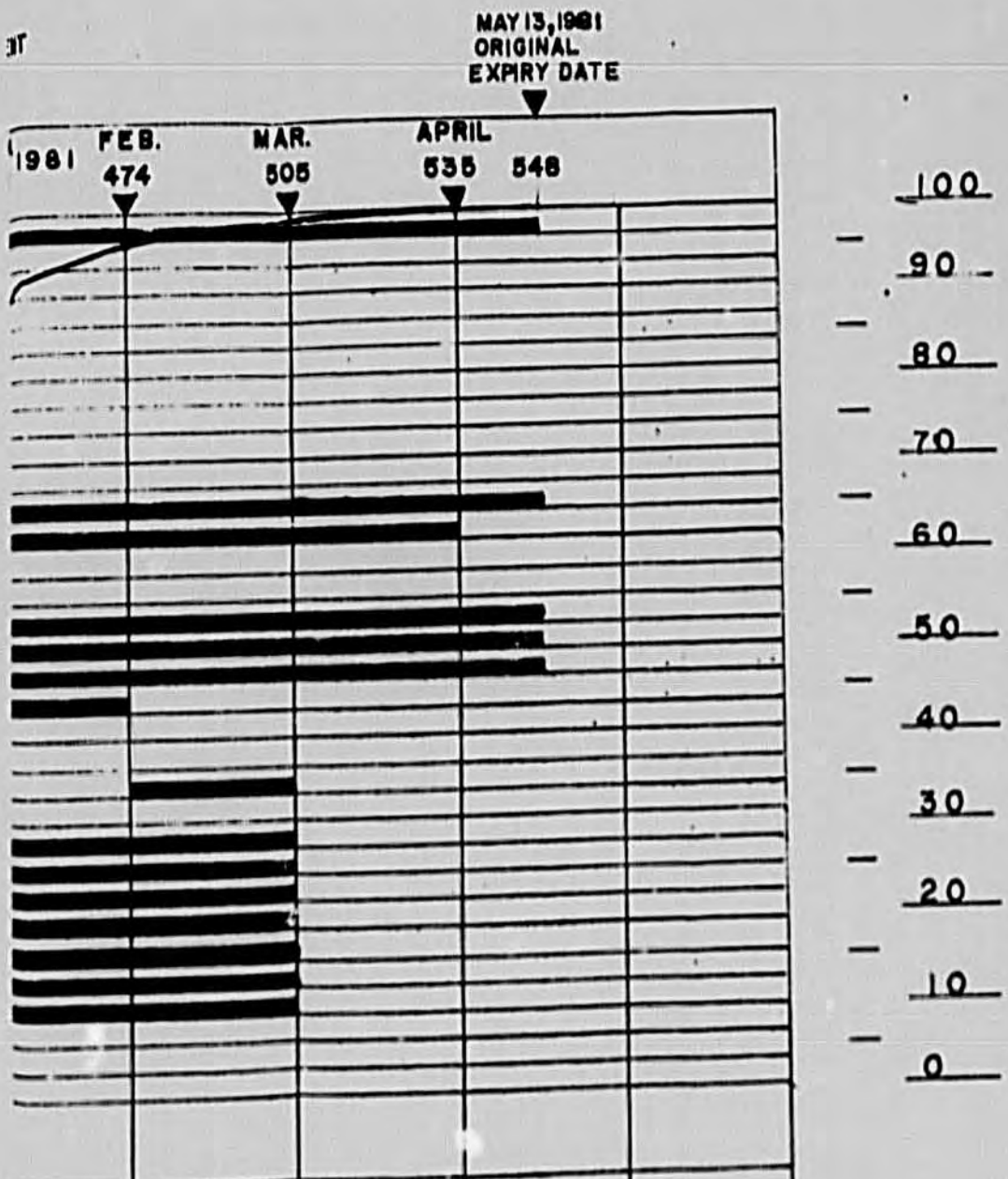
TION

LEGEND:

- PREVIOUS ACCOMPLISHMENT
- PROGRESS THIS REPORT
- SCHEDULED WORK
- SCHEDULED ACCOMPLISHMENT
- ACTUAL ACCOMPLISHMENT



,138	246,498	365,697	410,721	424,456	424,452	365,040	33
,423	1,699,921	2,065,618	2,476,339	2,900,795	3,325,247	3,690,287	4,0



131,780	206,523	165,057	104,261.75	
022,067	4,230,590	4,395,647	4,499,908.75	

BICOL RIVER BASIN DEVELOPMENT PROJECT
ROAD COMPONENTS

MANPOWER SCHEDULE OF CONSULTANTS STAFF FOR CONSTRUCTION SUPERVISION

PACKAGE II

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
L.D. MAYOR	SR. HWY ENGR. / R.E.																				18
F.G. OBUSAN	SR. BR. ENGR. / R.E.																				18
M.D. LACSAMANA	SR. LOC. ENGR.																				18
J.A. TORRALBA	SR. MAT. ENGR./R.E.																				18
F.C. ROSALES	ADM. OFFICER																				18
L.P. JOSE	CLERK / TYPIST																				18
T.S. SABABAN	MESSR. / JANITOR																				18
																				SUB - TOTAL	144

SUB - PROJ. NO. 6 PALISTINA - SN. ANTONIO - MINALABAC ROAD

V.B. ZANO	RESIDENT ENGINEER																				18
R.R. RAFER	ENGR. INSP. (HWY.)																				18
R. NUNEZ	ENGR. INSP. (BRIDGE)																				10
W.B. CONCEPCION	MATL'S. ENGR.																				18
B.V. ACCRDA	SURVEYOR / DRFTMN																				18
C.C. DELFIN	LAB. TECHNICIAN																				18
V.L. DE LA CRUZ	CLERK / TYPIST																				18
																					18
A.B. LAC[illegible]	JANITOR / MESSR																				18
A.P. CONDAT	LABORER																				18
																				SUB - TOTAL	

Bicol River Basin Development Project

Secondary and Feeder Roads

PACKAGE II

NAGA-CAROLINA ROAD PROJECT

Sub-Project No. 10

MONTHLY CONSTRUCTION REPORT

No. 25

Prepared by:

LUCIO D. MAYOR
Asst. Hwy. Engr./RE

Submitted by:

ALDO M. BONDELARI
Deputy Project Manager

PROGRESS REPORT NO. 25

July, , 1980

PROJECT: NAGA-CAROLINA SECONDARY AND FEEDER ROADS
SUB - PROJECT NO. 10

1. GENERAL

The activities of the contractor are on the two feeder roads, since the completion of the secondary road. A maintenance team, however is being utilised on the latter for any minor deficiencies left pending final acceptance.

2. PROGRESS

The overall progress as of this cut-off date is 99.23% per new adjusted quantities broken down as follows:

Naga-Carolina Road (SR-10)	76.44%(completed)
San Isidro-Paoul Nursery Rd.(FR-1001)	12.12%
San Isidro-Lanicuasen Rd. (FR-1002)	10.67%

Time elapsed from the start of work of the project, including new time extensions is 89.51%.

a) Secondary Road (Km. 0 + 000 to Km. 13 + 470) completed.

b) Feeder Road No. 1001 (Km. 0 + 079 to Km. 2 + 105)

1. Earthworks

Trimming of side slopes and ditches.

2. Subbase

Laying, spreading and compacting up to finished grade.

91

3. Structures

No activity .

4. Drainage

Cleaning of pipes .

o) Feeder Road No. 1002 (Km. 0 + 027 to Km. 4 + 063)

1. Earthworks

Trimming of side slopes and ditches.

2. Subbase

Laying, spreading and compacting up to finished grade.

3. Structures

No activity.

4. Drainage

Cleaning of pipes.

3. SUMMARY OF PHYSICAL ACCOMPLISHMENTS TO DATE

a. Roads	Secondary Rd.	Feeder Rds.
Sub-grade	13.32 km.	6.13 km.
Subbase	13.32 km.	6.13 km.
Base	13.32 km.	None
Surfacing	80,371 Sq. M.	None
b. Bridges		
Sub-Structure	50.2 L.M.	12.00 L.M.
Super-Structure	50.2 L.M.	12.00 L.M.

4. COMMENTS AND RECOMMENDATIONS

With the secondary road inaugurated last June 28, 1980 by Cabinet Coordinator - Minister Alfredo L. Juinio, it is recommended that heavy cargo trucks, tractors pulling coconut and bamboo trunks, and carabao-pulled sledges, be banned from using the road; since the thin surfacing, designed for light vehicles only, is getting destroyed as well as the shoulders, to the detriment of the contractor who has to maintain it until receipt of final acceptance. The private garbage trucks should also be banned from dumping the trash on the shoulders and ditches of the road inspite of the existence of a service road that leads to the inside of the city garbage dump site at km. 1 + 600.

For the Panicuason [illegible], a new plan, agreeable to PMO and USAID, for a Stable Masonry Wall to contain and protect the high embankment, has been submitted as an Extra Work Order. It is more economical than a Reinforced Concrete Retaining Wall or an additional two spans of bridge. As soon as this is implemented, completion of [illegible] Road No. 1002 and the turnover to the government of the whole works is in sight.

Due to the above Extra Work which shall take about 40 days to complete and time extensions due to unworkable weather conditions and others, the [illegible] schedule has to be revised for a more realistic view. The new tentative completion date is October 10, 1980.

Best Available Document

WEATHER REPORT

PROJECT: NAGA-CAROLINA ROAD
SUB-PROJECT NO. 10

Date	Weather	Remarks	Time Extension Recommended
June 26	Fair	Workable	None
27	Fair	Workable	None
28	Fair	Workable	None
29	Cloudy w/ scattered rainshower	Workable	None
30	Rainy	Unworkable	One (1) day
July 1	Rainy	Unworkable	One (1) day
2	Cloudy	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	Cloudy w/ scattered rainshower	Workable	None
10	Cloudy w/ scattered rainshower	Workable	None
11	Cloudy	Workable	None
12	Cloudy	Workable	None
13	Fair	Workable	None
14	Rainy	Unworkable	One (1) day
15	Rainy	Unworkable	One (1) day
16	Fair	Workable	None
17	Fair	Workable	None
18	Cloudy w/ scattered rainshower	Workable	None
19	Cloudy w/ scattered rainshower	Workable	None
20	Rainy (Typhoon "Nitang")	Unworkable	One (1) day
21	Rainy (Typhoon "Nitang")	Unworkable	One (1) day
22	Cloudy	Workable	None
23	Rainy (Typhoon "Osang")	Unworkable	One (1) day
24	Rainy (Typhoon "Osang")	Unworkable	One (1) day
25	Rainy (Typhoon "Osang")	Unworkable	One (1) day

TOTAL EXTENSION RECOMMENDED THIS MONTH - - - - - 9 days
TOTAL EXTENSION RECOMMENDED PREVIOUSLY - - - - - 91 days
GRAND TOTAL TO DATE - - - - - - - - - - - - 100 days

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

EMPLOYMENT GENERATION SURVEY (SS3)

NAME OF [redacted]

FOR THE MONTH OF ____ [redacted] 19 80

	MANAGERIAL AND FINANCE	ENGINEERING TECHNICAL	SKILLED	UNSKILLED
REGULAR PAYROLL 1/		[redacted]	[redacted]	
LOCAL - HIRED 2/	[redacted]	[redacted]	[redacted]	[redacted]
SUBCONTRACTORS 3/				
TOTAL	[redacted]	[redacted]	[redacted]	[redacted]

1/ Includes permanent employees

2/ Employees residing within the Basin Area

3/ Local Hired Only

Submitted by:

[redacted]

[redacted]

pure*

Best Available Document

BALM CONSTRUCTION CO., INC.
Naga-Carolina Road Project
Naga City

LIST OF PERSONNEL
As of July, 1980

NAME	POSITION	QUALIFICATION
I. TECHNICAL STAFF		
1. Modesto C. Buenaventura	Operations Mgr.	Experienced
2. Eutrppio O. Doroy	Resident Engineer	Civil Engr.
3. Perpetuo B. Avila	Mtls. Lab.Tech/PO	Expereinced
II. ADMINISTRATIVE STAFF		
1. Efren B. Avincula	Adm. Officer	BSC
2. Fatima B. Reyes	Comptroller	-do-
3. Gloria N. Felipe	Fld. Acctg. Officer	-do-
4. Magno A. Tomas	Gen. Timekeeper	-do-
5. Narciso S. Felipe	Warehouseman/Purchaser	-do-
6. Francisco S. Felipe	Asst. Warehouseman	-do-
7. Placido Balisbis	POL Tender	-do-
8. Mariano Panganiban	Compound Watchman	-do-
9. Antonio Gerdon	-do-	-do-
10. Gregorio Nacario	-do-	-do-
11. Efren San Joaquin	Field Watchman	-do-
12. Ernesto Viterbo	-do-	-do-
III. MECHANICAL DEPARTMENT		
1. Romeo A. Sauco	Equipment Foreman	Experienced
2. Fernando Luna	Mechanic	-do-
3. Jose Daruca	Mechanic	-do-
4. Floro Palmarin	Mechanic/Operator	-do-
5. Norberto Alambre	Mechanic helper	-do-
6. Domiciano Losa	Mechanic helper	-do-
7. Tito Jerusalem	Electrician	-do-
8. Felixberto Pelagio	Welder	-do-
9. Efren Q. Nano	Tireman	-do-
IV. DRIVERS		
1. Wilfredo Roldan	Truck Driver	Experienced
2. Pedro Malapo	-do-	-do-
3. Pio Macario Jr.	-do-	-do-
4. Luis Santos	-do-	-do-
5. Rodolfo Parro	-do-	-do-
6. Eliseo Roldan	-do-	-do-
7. Roman Maghirang	-do-	-do-
8. Carlito Atup	Pick-up driver	-do-

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V. HEAVY EQUIPMENT OPERATORS

1. Elmer Fabricante	Grader Operator	Experienced
2. Reynaldo Villavacencio	Payloader Operator	-do-
3. Julio Ripo	Dozer Operator	-do-
4. Aniano Jesus Jr.	Road Roller Operator	-do-
5. Sancho Buendia	-do-	-do-
6. Florentino Reonico	Asph.Distributor Optr.	-do-
7. Gregorio Basto	Asph. Rd. Roller Optr.	-do-
8. Ricardo Buendia	Asph. Rd. Roller Optr.	-do-

VI SURVEY AND LAB TEAM

1. Armando Parillas	Instrument man	Experienced
2. Carlos Balumbre	Survey aide	-do-
3. Rafael Parillas	-do-	-do-
4. Luis de Leon	Laboratory aide	-do-

VII MISCELLANEOUS STRUCTURES

1. Jose Mariano	Gen. Const. Foreman	Expereinced
2. Romeo Bongat	Const. Foreman	-do-
3. Pedro Bual	Carpenter	-do-
4. Jorge Proa	-do-	-do-
5. Pedro Catimbang	Laborer	-do-
6. Oscar Moreno	-do-	-do-
7. Jovenol Albe	-do-	-do-
8. Catalino Canaveras	-do-	-do-
9. Maximino Castillo	-do-	-do-
10. Carlito Caneda	-do-	-do-
11. Claudio Flores	-do-	-do-
12. Pablo Gonzales	-do-	-do-
13. Jose Garcia	-do-	-do-
14. Paterno Panganiban	-do-	-do-
15. Jose Panganiban	-do-	-do-
16. Felix Calleja Jr.	Truck helper	-do-
17. Roberto Bron	-do-	-do-
18. Santos Pagnaniban	-do-	-do-
19. Abraham Gonzales	-do-	-do-
20. Domingo Arbaca	-do-	-do-
21. Teofisto Alano	-do-	-do-

VIII. BRIDGE CONST. TEAM

1. Juanito Porterio	Bridge foreman	Experienced
2. Juan Perez	Carpenter	-do-
3. Fortunato Senson	-do-	-do-
4. Teodulo Petrimentre	-do-	-do-
5. Jose Petrimento	-do-	-do-
6. Roman Buena	-do-	-do-

7.	Vicente Magayanes	Carpenter	Experienced
8.	Loreto Sabong	-do-	-do-
9.	Ronald Porteria	-do-	-do-
10.	Bernardo Antonio	Mason	-do-
11.	Ramon Antonio	Laborer	-do-
12.	Jaime Senson	-do-	-do-
13.	Felicisno Roble	-do-	-do-

IX ASPHALTING TEAM

1.	Nestor Mariano	Laborer	Experienced
2.	Jose Raymundo Jr.	-do-	-do-
3.	Leo Napa	-do-	-do-
4.	Pable Hernandez	-do-	-do-
5.	Antonio Loma	-do-	-do-
6.	Jose Buena	-do-	-do-
7.	Carlos Buena Jr.	-do-	-do-
8.	Salvador Abiog	-do-	-do-
9.	Reynaldo Agor	-do-	-do-
10.	Cesar Buena	-do-	-do-
11.	Saturnino Hernandez	-do-	-do-
12.	Abundio Opiana	-do-	-do-
13.	Paciano Reburia	-do-	-do-
14.	Antonio Rabusa	-do-	-do-

Submitted by:

(Sgd.) Perpetuo B. Avila
Personnel Officer/ MLT

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Annex "B"

BALM CONSTRUCTION CO., INC.
NAGA-CAROLINA ROAD PROJECT
NAGA CITY

LIST OF EQUIPMENT
As of July, 1980

1 - unit Bulldozer, Komatsu
1 - unit Bulldozer, CAT D7
2 - units Road Grader, CAT 12 99E
2 - units Payloader, KIMCO JH - 65
1 - unit Payloader, CAT 950
1 - unit Road Roller, GALION, 2 wheeled
1 - unit Cons. Mixer, 1 Bagger
1 - unit Sheepsfoot Roller, Single Drum
1 - unit Generator, G.M. 3.5 Power
1 - unit Welding Machine, HOBART
3 - units Vibrator, Portable
1 - unit Service Car, Ford Fiera 1600
2 - units Dump Truck, ISUZU, 10 Wheeler
1 - unit Stake truck, IH
8 - units Dump Truck, ISUZU, 6 Wheeler
2 - units Stake Truck, TOYOTA
1 - unit Tractor Massey Ferguson, Sheepsfoot Tower
1 - unit Pile Hammer, D - 22
2 - units Bar Cutter
1 - unit Road Roller, GALION, 3 Wheeled
1 - unit Rock Crusher Complete with accessories
1 - unit Crane with Diesel Hammer

SUBMITTED BY:

(SGD.) EUTROPIO O. DOROY
Project Engineer

... c ... ..

Annex "C"

LIST OF LABORATORY EQUIPMENT
As of July, 1980

One - 8 - inch Brass Sieve 3"
One - 8 - inch Brass Sieve 2"
One - 8 - inch Brass Sieve 1½"
One - 8 - inch Brass Sieve 1"
One - 8 - inch Brass Sieve ½"
One - 8 - inch Brass Sieve 3/8"
One - 8 - inch Brass Sieve No. 50
One - 8 - inch Brass Sieve No. 100
One - 8 - inch Brass Sieve No. 60
Two - Triple Beam Scale 0.1 gm.
One - Micromeyer Poise Balance 5.0 Kg.
One - Gas Stove with oven
Two - Bucket for Immersing Aggregates
One - Volumetric Flask, 100 ml.
Twelve - Moisture Cans
One - Compaction Hammer, 5.5 lb.
One - Sand Cone Apparatus
Three - Field Density Plates
Two - Sand Scoop
Two - Tampering Rod
One - Slump Cone
Three - Cylinder Mold
One - Beam Mold
One - Asphalt Thermometer 100-400 °F
One - Stop Watch
Two - Cylinder Mold
Two - Modified Compaction Mold 1/30
One - 8 - inch Brass Sieve 3/4"
One - 8 - inch Brass Sieve No. 4
One - 8 - inch Brass Sieve No. 10
One - 8 - inch Brass Sieve No. 40
One - 8 - inch Brass Sieve No. 200
Lquid Limit Device
Plastic Limit Set
Density Sand
Graduated Cylinder [illegible] ml.
Basin Pan 24" x 24"
Basin Pan 18" x 18"

Best Available Document

ITEM	DESCRIPTION	ESTIMATED % SCHEDULED	PROJEC
1.60.1	Force Account Work (For the Spillway)	0.08182	0
1.60.3	Provide one (1) Unit Utility for Engineer	0.22091	0.22091
1.60.4	Maintain, Operate & Repair one Unit Utility Vehicle for Eng'r	0.13050	0.13050
1.60.5	Laboratory & Office Equipment for Engineer as listed	0.30272	0.30272
100	Clearing & Grubbing	1.05289	.05289
105(Sec.)	Roadway & Drainage Excavation	9.56004	9.56004
105(Fed)	Roadway & Drainage Excavation	4.16628	4.16628
105-4	Excavation of Unsuitable Materials	0.84941	0.84941
106	Excavation for Structures	0.19401	0.19401
107	Borrow	16.03911	5.91079
108	Aggregate Sub-base	28.33589	8.10920
110	Foundation Fill	0.04909	0.04909
111	Overhaul (300M.) Freehaul	0.22905	0.22905
200	Aggregate Based Course	11.37056	1.37056
302	M.C.Cutback Asph.,Gr. MC-1 for Bituminous Prime Coat	3.41543	3.41543
314(1)	Aggregate Matl. for Blt.-Surface Treatment (Hot Asphalt)	2.01599	2.01599
314(3)	85-100 Penetration Asphalt Cement for B.S.T.	6.54541	6.54541
401	Timber (Detour) Trestle (Superstructure only on Conc.Pile)	0.16363	0.16363
402-2.5	Precast Concrete Piles	3.41523	3.41523
402-25a	Concrete Test Piles (Furnish and Drive)	0.36000	0.36000
403	Concrete Railing	0.10023	0.10023
405	Concrete Class "A" (Miscellaneous)	2.74294	2.74294
405-1	Concrete Class "A" (Bridge)	1.56403	1.56403
406	Reinforcing Steel	2.95600	2.95600
413	0.30M Ø R.C.P.	0.05338	0.05338
413-2	0.60 M. Ø R.C.P.	0.37674	0.37674
413-3	0.90 M. Ø R.C.P.	0.64227	0.64227
413-4	1.20 M. Ø R.C.P.	2.27314	2.27314
500	Riprap and Grouted	0.31904	0.31904
501	Hand-Laid Embankment	0.01424	0.01424
510	Right-of-Way Markers	0.13146	0.13146
	Extra Work	0.32946	0
	TOTAL	100.00	89.23%

MONTHLY PE	ODICAL
CUMULATIVE	OTAL
% TIME EL	SED

JULY 15, 1978
START OF CONTRACT
TIME

EIGHT ITEM	QUANTITY	UNIT COST	AMOUNT	JULY 31	AUG. 31	SEPT.
0		Lump Sum	10,000.00			
00		Lump Sum	27,000.00			
00	5.5 mos.	2,900.00	15,950.00			
00		Lump Sum	37,000.00			
00	33.6 Has.	3,850.00	128,688.00			
100	52,280 Cu.M.	22.35	1,168,458.00			
00	24,248 Cu.M.	21.00	509,216.00			
100	3,460 Cu.M.	30.00	103,818.00			
100	1,355 Cu.M.	17.50	23,712.00			
99	56,010 Cu.M.	35.00	1,960,350.00			
99.2	54,973 Cu.M.	63.00	3,463,299.00			
100	120 Cu.M.	50.00	6,000.00			
100	111,980 Sta.M.	0.25	27,995.00			
00	19,437 Cu.M.	71.50	1,389,745.00			
100	129 M.T.	3,236.00	417,444.00			
100	1,760 Cu.M.	140.00	246,400.00			
100	256 M.T.	3,125.00	800,000.00			
100	2 Spans	10,000.00	20,000.00			
100	540 L.M.	773.00	417,420.00			
100	4 Each	11,000.00	44,000.00			
100	98 L.M.	125.00	12,250.00			
100	447 Cu.M.	750.00	335,250.00			
100	236 Cu.M.	810.00	191,160.00			
100	55,997 Kgs.	6.45	361,180.65			
100	45 L.M.	145.00	6,525.00			
100	161 L.M.	286.00	46,046.00			
100	157 L.M.	500.00	78,500.00			
100	294 L.M.	945.00	277,830.00			
100	268 Cu.M.	145.00	38,994.00			
100	30 Cu.M.	58.00	1,740.00			
100		39.00	16,068.00			
0			40,267.37			
of July, 1980		₱ 12,222,307.42				
ACCOMPLISHMENT				₱ 83,717.54	243,111.66	517,089.34
AMOUNT					326,829.20	843,918.54
				2.46%	6.95 %	11.29 %

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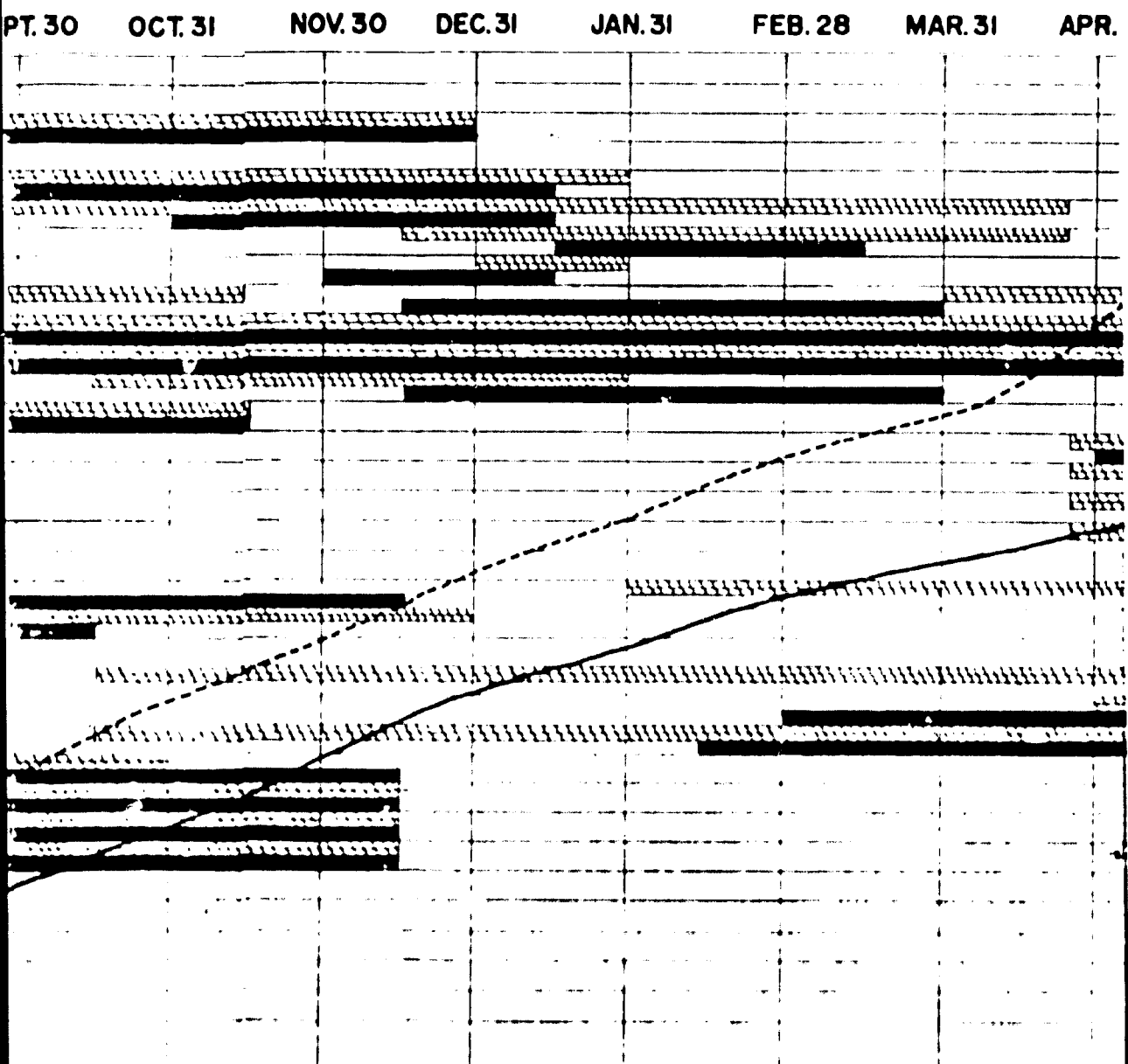
REVISED BAR SCHEDULE OF NAGA – CAROLINA R(

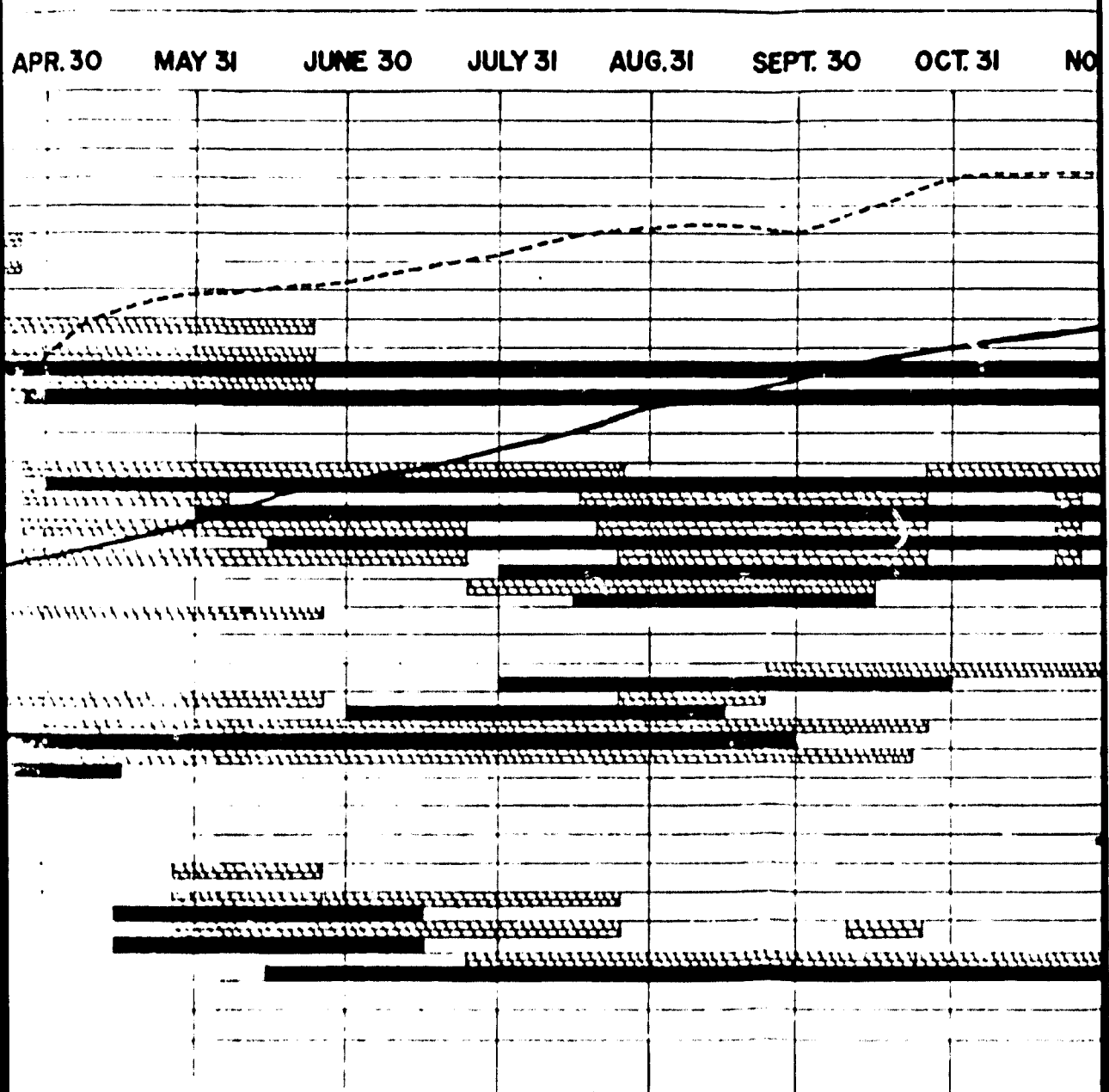


522,904 20	912,144.84	905,560.16	691,694 16	549,682.99	560,598 96	408,983 59	4
1,366,822.74	2,278,967 58	3,184,529.74	3,876,221.90	4,425,904.89	4,986,503 75	5,396,487.34	5,6
15.77%	20.12%	24 6%	29 09%	33 14%	37 63%	41.97%	

E OF WORK

104'

ROAD



59	478,577.61	440,190.14	575,618.17	678,841.79	617,169.89	526,090.00	503,987.70
4	5,874,064.95	6,314,255.09	6,889,873.26	7,568,715.05	8,185,874.64	8,711,964.64	9,215,802.34
	46.45%	50.80%	55.28%	59.77%	64.11%	68.60%	72.94%

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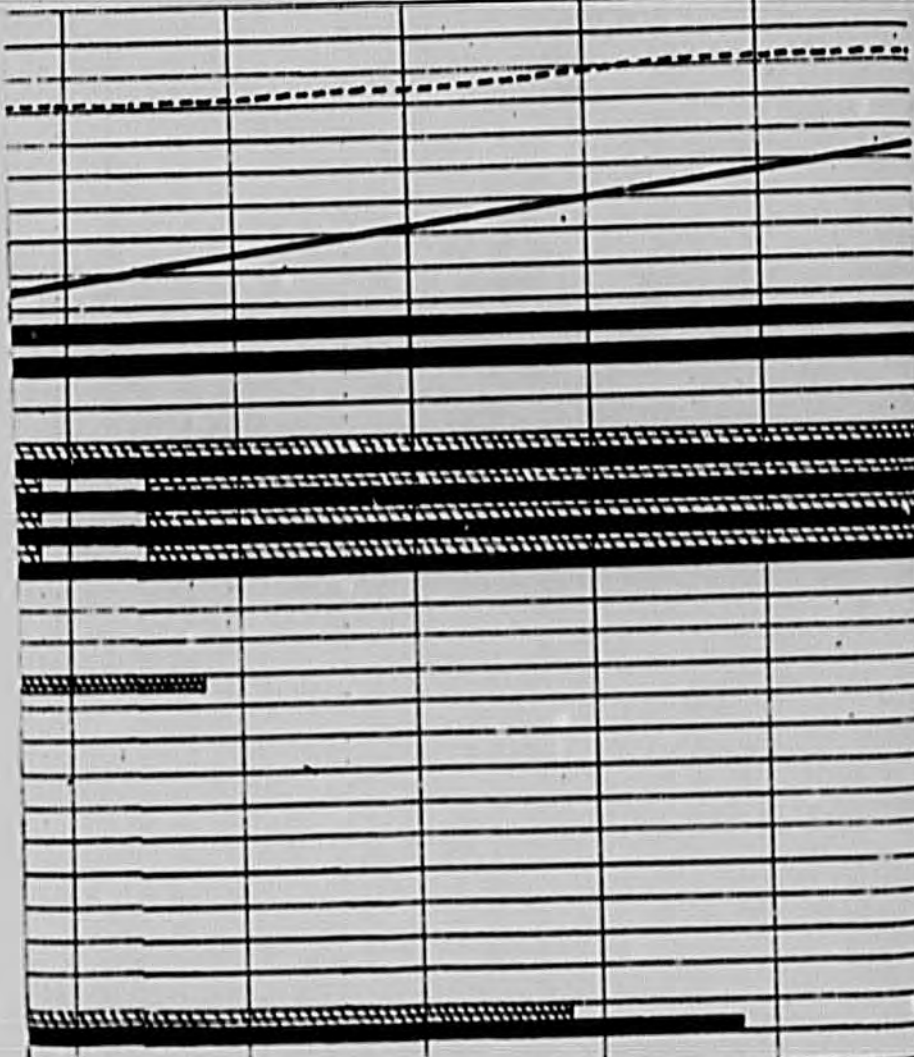

9	516,049.99	516,049.99	501,282.70	474,604.02	388,172.52
34	9,733,942.33	10,251,992.32	10,753,275.02	11,227,879.04	11,616,051.56
%	77.42%	81.91%	86.11%	91.86%	95.04%

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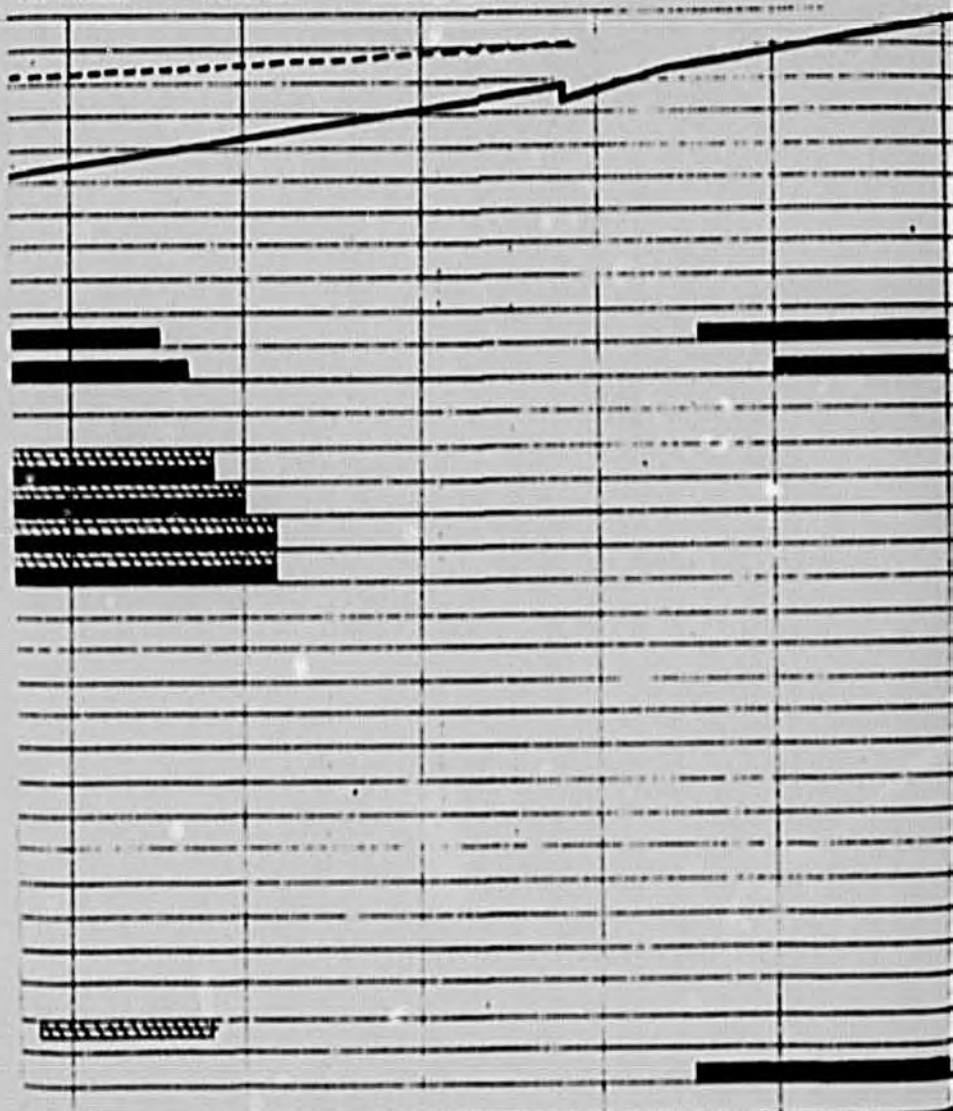
OCTOBER 10, 1980
REVISED TENTATIVE COMPLETION DATE

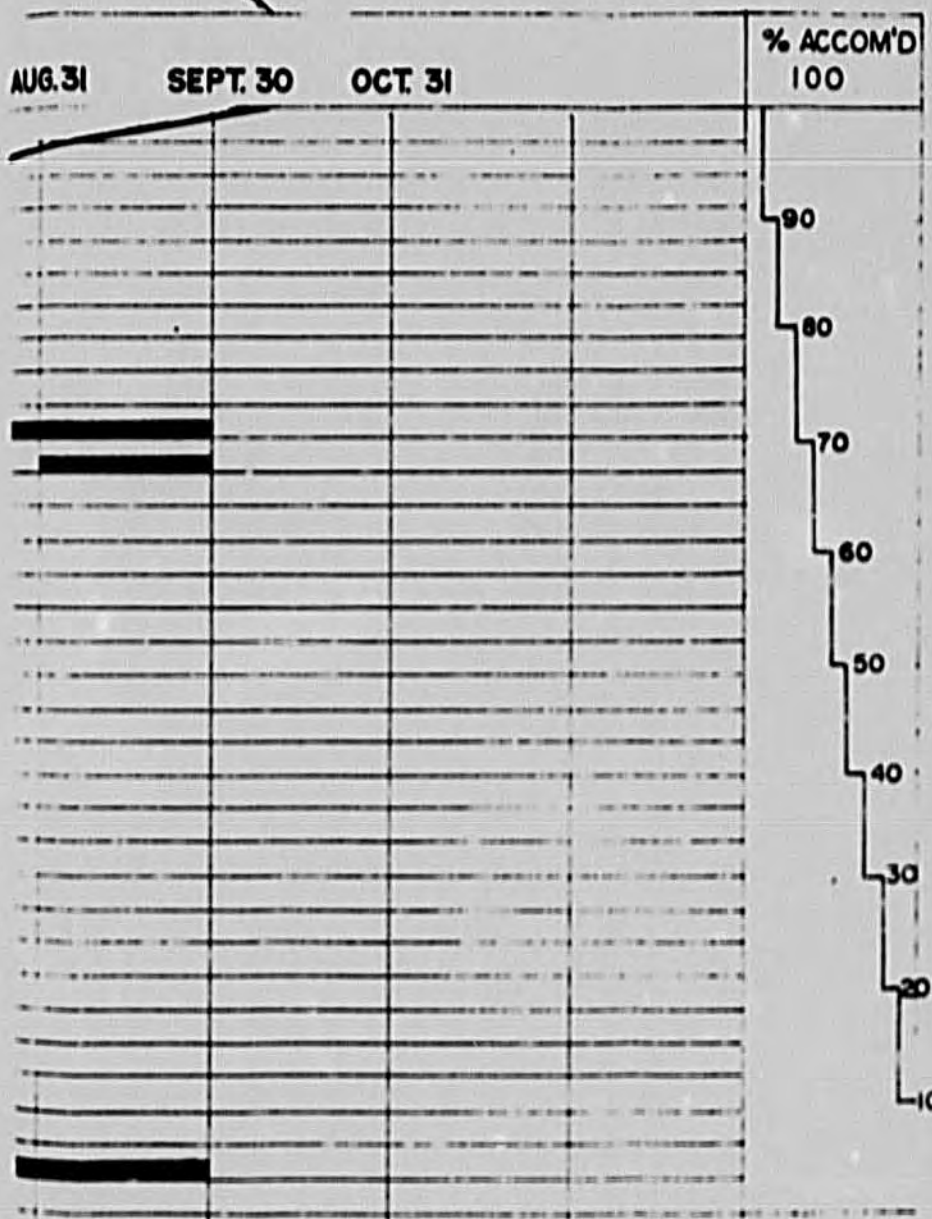
APR.30 MAY 31 JUNE 30 JULY 31 AUG.31 SEP



2	281,043.91	18,614.82	218,596.00	27,134.00	33,875.07
6	11,897,095.47	11,915,710.29	12,134,306.29	12,161,440.29	12,195,315.36
	97.34%	97.49%	99.28%	99.50%	99.78%

LEGEND:

- PREVIOUS ACCOMPLISHMENT
- PROGRESS THIS REPORT
- SCHEDULED WORK
- SCHEDULED ACCOMPLISHMENT
- ACTUAL ACCOMPLISHMENT



	33,675.07	26,992.07
$	12,195,315.36	12,222,307.43
	99.78%	100%

BICOL

MANPOWER SCHEDU

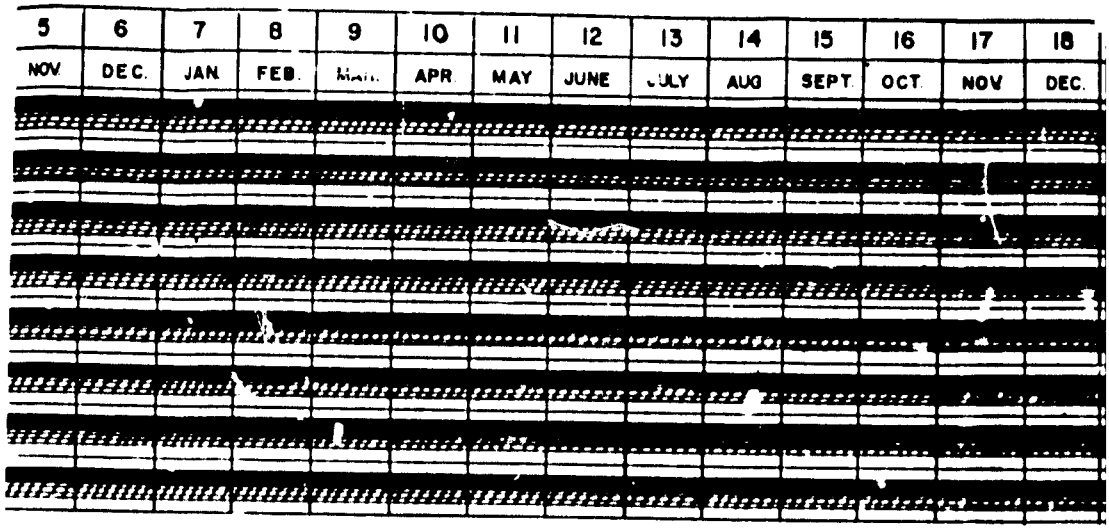
NAMES	POSITION	1 JULY	2 AUG	3 SEPT	4 OCT	5 NO
A.E. BANDELARIA	DEPUTY PROJ. MANAGER					
L.D. MAYOR	SR. HWY. ENG'R. R.E.					
F.G. OBUSAN	SR. BR. ENG'R. R.E.					
M.D. LACSAMANA	SR. LOC. ENG'R.					
J.A. TORRALBA	SR. MAT'LS ENG'R. R.E.					
F.C. ROSALES	ADM. OFFICER					
L.P. JOSE	CLERK TYPIST					
T.S. SADABAN	MES'R JANITOR					

L.D. MAYOR	SR. HWY. ENG'R. R.E.	S A M E
B.A. BAUTISTA	MATERIALS ENG'R.	
R.L. CLARIDAD	ENG'R INSP. (HWY)	
E. REYES	ENG'R INSP. (BR.)	
B.P. BAUTISTA	SURVEYOR DRAFTS'N	
H.B. PELLEN	LABORATORY TECH.	
E.C. CASTILLO	LABORER	

RIVER BASIN DEVELOPMENT PROJECT
(ROAD COMPONENTS)

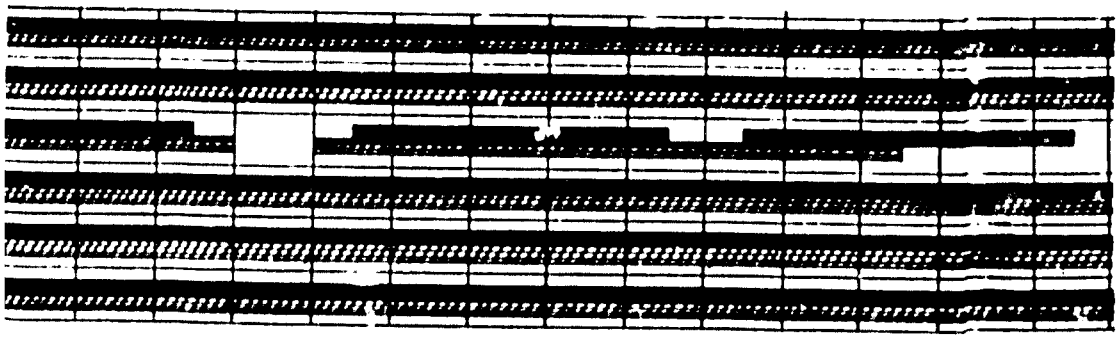
:DULE OF CONSULTANTS STAFF CONSTRUCTION SUPERVIS

PACKAGE II



SUBPROJECT NO. 10 NAGA-CAROLINA ROAD

A S IN K E Y S T A F F



ISION

19	20	21	22	23	24	25	26	27	28	29	30	MEN MONTHS
JAN.	FEB.	MAR.	APR.	MAY	UNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	
												27.17
												27.17
												27.17
												27.17
												27.17
												27.17
												27.17
												27.17
										SUB-TOTAL		217.36

												25
												27.17
												12
												25
												27.17
												27.17
										SUB-TOTAL		143.51

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 [redacted] 19 80

	ADMINISTRATIVE FINANCE	ENGINEERING TECHNICAL	SKILLED	UNSKILLED
MANILA BASED 1/		5		
LOCAL - HIRED 2/	5	10		[redacted]
SUB-CONTRACTORS 3/				
T O T A L	5	[redacted]		[redacted]

1/ Includes permanent employees

2/ Employees residing within the Basin Area

3/ Local Hired Only

pure*

Submitted by:

ARMANDO E. BANDELARIA
[redacted] Project Manager

July 25, 1980

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 III 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. BONDELARIA
Deputy Project Manager

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