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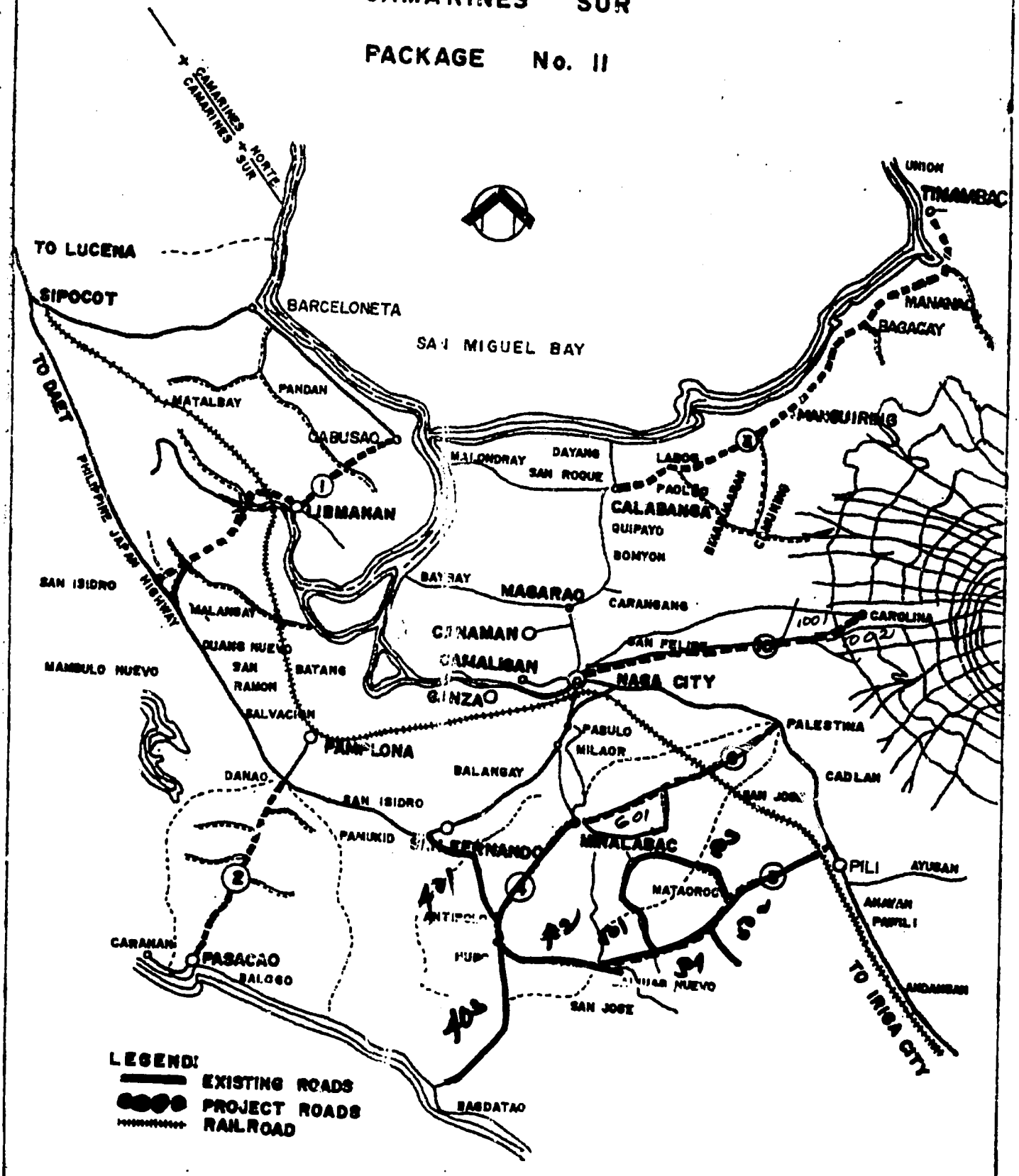
FIGURE 1

# BICOL RIVER BASIN DEVELOPMENT PROJECT
## SECONDARY AND FEEDER ROADS
## CAMARINES SUR

### PACKAGE No. II




LOCATION PLAN

Bicol River Basin Development Project

Secondary and Feeder Road

PACKAGE II

# MONTHLY CONSTRUCTION REPORT

No. 27

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

Prepared by:

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Submitted by:

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Deputy Project Manager

PROGRESS REPORT NO. 27

April, 1981

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

1. GENERAL

This project consists of the construction of:

a. Minalabac-Antipolo-Hulo secondary road, from the beginning of the project at the municipality of Minalabac, Camarines Sur, Sta. 0 + 000, to the barrio of Hulo, Minalabac, the end of the project at Sta. 8 + 838.94, or a length of 8.38894 kilometers.

b. Antipolo-Lupi-San Fernando feeder road no. 401, Sta. 0 + 000 to Sta. 5 + 136.53, or a length of 5.12853.

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

d. Hulo-Bagolatao feeder road no. 403

Sta. 0 + 000 to Sta. 7 + 661.74, or a length of 7.661 kms.

The total of the project is 24.24765 kms.

2. WORK PROGRESS

Asphalt paving on the secondary road is still going through sometimes hampered by sudden burst of rainshowers usually in the afternoon. Activity is now centered on the Antipolo barrio proper and it is timely, says the barrio folks for their fiesta falls on May 7 and as such, the new asphalt paved road passing through the heart of Antipolo shall give it a new and fresh look.

Delivery of Item 200 for base course on the secondary road had already resumed.

On feeder roads, delivery of Item 107 on Fr. 402 is almost finished and at present they are already stockpiling additional Item 103 for this feeder road.

On the other hand, the beginning of Fr. 401 which had a Right-of-Way problem before, had already been constructed and surfaced with Item 103. It now links with the secondary road on the super-elevated section near the Antipolo-Elementary School.

Construction of headwalls for R.C. Pipes is still in progress although the sub-contractor again had a hard time looking for cement which now costs around ₱36.00 per bag.

The sub-contractor also delivered additional Item 108 on portions of Fr. 403 which are made slippery by sudden rainshowers usually in the afternoons.

With regard to the San Fernando Trestle Bridge, work is now going on smoothly since the arrival of lumber materials. The sub-contractor had the materials chemically treated to insure its protection from insects and weathering before installing it. It is expected to be completed this month of May.

General Percentage of Work Accomplished:

1. Binalatac-Antipolo-Hulo Secondary Road - - - 57.40
2. #401 - Antipolo-Lupi-San Fernando - - - - - 12.18
3. #402 - Hulo-Biliwag Road - - - - - - - - - - - 8.60
4. #403 - Hulo-Bagolatao - - - - - - - - - - - - - 14.50

Total - - - - - - - - - - - 92.68%

A. Secondary Road

(1) Binalatac-Antipolo-Hulo Road, Sta. 000 to Sta. 8 + 838.94

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

Subbase - - - - - - - 7.50 kms.

Base Course - - - - - 3.85

Asphalt - - - - - - - 18,910 sq.m.

B. Feeder Roads

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

Sta. 0 + 000 - Sta. 5 + 136.53

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

Subbase - - - - - - - - - 4.50 kms.

(2) Hulo-Biliwag (#402) Sta. 0 + 000 - Sta. 2 + 620.44

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

Subbase - - - - - - - - - 1.70 kms.

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

Subgrade - - - - - - - - - 7.643 kms.

Subbase - - - - - - - - - 6.50 kms.

SUMMARY OF PHYSICAL ACCOMPLISHMENTS

As of April, 1961

| a) Roads | Secondary Road | Feeder Roads |
|---|---|---|
| Subgrade | 3.031 kms. | 15.70 kms. |
| Subbase | 7.50 kms. | 12.70 kms. |
| Base | 3.05 km. | None |
| Pavement | 10,910 sq.m. (Asphalt Item 314) | None |

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

b) Bridges

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

Superstructure: 37.2 L.M. (Completed)

COMMENT & RECOMMENDATION:

Last month there was again an increase in the cost of cement which is now priced at ₱36.00/bag. Not only this, even sand, gravel, asphalt and almost every item showed an increase in cost. All these things coupled with sometimes non-availability of some materials create problems for both the contractor and the sub-contractor, Yet, in spite of all those, they just go on working, bent on finishing the project as per schedule.

Meanwhile, bidding on the proposed bridge over the cut-off channel is scheduled on April 30, 1961. It is expected that the construction of this bridge will begin sometimes this May or first week of June to avail of the fine weather up to August. So far work is still satisfactory.

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

Secondary Road Minalabac-Antipolo-Hulo

Item 107 - Common Borrow

No activity

Item 103 - Subbase material

Compacting and regrading from Sta. 1 + 000 - 1 + 500

Item 200 - Gravel Base Course

Hauling, spreading, and compacting from Sta. 1 + 700 - Sta. 1 + 900 and Sta. 5 + 500 - Sta. 5 + 600

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

Delivered - - - 30 metric tons

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

Delivered - - - 70 metric tons

Per kilometer - - 16.3 metric tons

Paved - - - - - - 3.1 km.

Item 405-A Concrete Structures:

Bridges:

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

Box Culverts:

Single barrel - Sta. 6 + 461.00

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

Double barrels - Sta. 6 + 923.00

Completed - 2-1.50m x 2.10m x 13m

Item 413 (Sec.) - RCP/Headwall

1 line of 24" RCP wtith headwall - completed

Item 510 - Road-right-of-way Markers

No activity

FEEDER ROADS

#401 - Antipolo-Lupi-San Fernando

Excavation and (Construction) of RCP's headwalls

#402 - Hubo-Daliwag Road

1. Stockpiling and hauling of Item 107 (Common borrow) from stations 1 + 400 to Sta. 2 + 620.44

2. Spreading and compacting from Sta. 1 + 300 to Sta. 2 + 620.44

#403 - Hubo-Bagolatao

Hauling, spreading and compaction of additional Item 106 .

SURVEY:

Re-checking of horizontal alignment, vertical control and blue-topping of portions to be asphalted.

## STATUS OF LABORATORY TESTS

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

| MATERIALS | Total estimated quant. | No. of Tests required | No. of Tests On file | No. of Tests Balance |
|---|---|---|---|---|
| 105: Rdway and Drainage excavation | 15,500cu.m. | D - 52<br>C,G & P-11 | D - 52<br>C,G,&P-11 | None<br>None |
| 106: Excav. for structure | 700cu.m. | D - 3<br>C,G,&P - 1 | D - 3<br>C,G& P-1 | None<br>None |
| 107: Common Borrow | 102,450cu.m. | D-342<br>C,G, P-69 | D-318<br>C,G &P-69 | D - 24<br>None |
| 108: Agg. Subbase Course | 25,700cu.m. | C - 19<br>D,G & P-86 | C - 17<br>D,G & P-86 | C - 2<br>G, & P-15 |
| 110: Foundation Fill | 50.00 cu.m. | D - 1<br>C,G,& P-1 | D - 1<br>C,G & P-1 | None<br>None |
| 200: Agg. Base Course | 7,500cu.m. | D - 50<br>C,G &P-25<br>Q - 1 | D - 21<br>C,G&P-19<br>Q - 1<br>Abrassion<br>Specific<br>Gravity<br>Abrassion | D - 29<br>C,G&P - 6<br>None |
| 302: Medium curing cut-back asphalt Grade MC.Bit. Prime Coat | 51 M.T. | Q - 5 | Q - 5 | None |
| 314-3: 85-100 penet. cement for BST (Hot Asphalt Type) | 102 M.T. | Q - 10 | Q - 5 | Q - 5 |
| 402-2.5: Pre-cast Concrete piles | 396 L.M. | PTC - 1 | | PTC - 1 |
| 405: Conc. Class "A" | 338 cu.m. | #6 | #6 | None |
| Cement | 4,831 bags | Q-3 or PTC | Q - 3 | None |
| Fine Agg. | 294 cu.m. | Q-1; G-4 | Q-1, G-1 | None |
| Coarse Agg. | 376cu.m. | Q-1, G-6 | | None |
| Water | | Cert. | Cert. | None |
| 406: Reinf. Steel | 25,785 kgs. | Q-1 ea.size | Q-1 ea. size | None |
| 413: Reinf. Conc.pipea | | | | |
| 0.60M | 276 L.M. | IR - 11 | IR - 11 | |
| 0.90M | 96 L.M. | IR-4 | IR - 4 | |
| 1.20M | 55 L.M. | IR - 3 | IR - 3 | |
| 500: Grouted riprap | 190 cu.m. | IR | - | IR |
| 510: ROW Markers | 154 ea. | IR | - | IR |

## STATUS OF LABORATORY TESTS

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

| MATERIALS | Total estimate | No. of tests | No. of tests On file | Balance |
|---|---|---|---|---|
| 105: Rdway & Drainage Excavation | 13,700cu.m. | D - 50<br>C, G & P-1 | D-283<br>C,G,&P-7 | None |
| 106: Excavation for structure | 630 cu.m. | D - 1<br>C,G, & P-1 | D - 1<br>C,G,& P-1 | None |
| 107: Common borrow | 21,020 cu.m. | D - 70<br>C,G & P-21 | D - 93<br>C,G & P-20 | None |
| 108: Agg. surface Course | 7,200cu.m. | D - 40<br>C,G,P -24 | D - 52<br>C,G & P-28 | None |
| 110: Foundation Fill | 40 cu.m. | D - 1<br>C,G & P - 1 | D - 1<br>C,G & P-1 | None |
| 401: Timber trestle | 4 spans | IR | | IR |
| 402-2.5: Pre-cast concrete piles | 163 L.M. | #1 or PTC | PTC- 1 | None |
| 402-2.5a: Conc. test | 1 ea. | #1 or PTC | PTC - 1 | None |
| 413: Reinf. Conc. pipes | | | | |
| 0.60m | 6 LM | #1 - IR - 1 | #1 | IR - 1 |
| 0.90 M | 16 LM | #1 - IR - 2 | #1 | IR - 3 |
| 1.20 M | 57 LM | #1 - IR - 8 | #1 | IR - 8 |
| 406: Reinf. Steel | | 0-1 ea.size | 0-1 ea.size | None |
| 510: ROW Markers | 166 ea. | IR | - | IR |

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

## STATUS OF LABORATORY TESTS

Project: Sub-project No. 4, Muhe-Taliwag Road #402

| MATERIALS | Total estimated quantities | Minimum No. of test required | No. of Tests On File | No. of Tests Balance |
|---|---|---|---|---|
| 106: Excavation for structures | [illegible]00cu.m. | D-1<br>C,G&P-1 | -<br>- | D - 1<br>C,G& P-1 |
| 107: Common Borrow | 23,690cu.m | D-79<br>C,G&P-15 | D - 72<br>C,G& P-16 | D - 7<br>None |
| 108: Ang. subbase | 3,1[illegible]0cu.m | D-21<br>C,G&P-11 | D - 10<br>C,G & P-2 | D - 11<br>C,G&P-9 |
| 110: Foundation Fill | 20 cu.m. | D - 1<br>C,G&P-1 | - | D - 1<br>C,G & P-1 |
| 413: Reinf. concrete pipes | | | | |
| 0.60M | 38 LM | #1,IR-2 | # - 1 | IR-2 |
| 0.90M | 82 LM | #2,-IR | # - 2 | IR-4 |
| 510: ROW | 60 ea. | IR-1 | | IR-1 |

## STATUS OF LABORATORY TESTS

Project: Sub-Project No. 4, #402, Hulo-Dagolatao

| MATERIALS | Total estimated quantities | Minimum No. of test req. | No. of tests: On file | No. of tests: Balance |
|---|---|---|---|---|
| 105: Rdway & Drainage Excavation | 74,720cu.m | D -249<br>C,G&P-50 | D -249<br>C,G&P-40 | None<br>C,G&P-10 |
| 106: Excavation for | 570 cu.m. | D - 2<br>C,G&P - 1 | -<br>- | D - 2<br>C,G & P-1 |
| 108: Agg. subbase | 9,350 cu.m | D-62<br>C,G&P-31 | D - 49<br>C,G,P #27 | D- 13<br>C,G &P-4 |
| 110: Foundation fill | 35cu.m. | D-1<br>C,G&P-1 | -<br>* | D - 1<br>C,G & P-1 |
| 413: Reinf. Concrete pipes | | | | |
| 0.60 M | 32 LM | #1-IR-2 | # - 1 | #-1-IR-2 |
| 0.90 M | 150 LM | #3-IR-6 | # - 2 | #-1-IR-6 |
| 1.20 M | 130 LM | #4-IR-6 | # - 3 | #-1-IR-6 |
| 466: Reinforced Steel | | G-1 size | G-1 ea. size | None |
| 510: ROW Markers | | IR | - | IR |

COMPRESSIVE STRENGTH (Secondary Road)

| Date Sampled | Part of Structures represented | Compressive Strength for 28 days | REMARKS |
|---|---|---|---|
| 1-18-79 | RCP .60"Ø | 3440 | Satisfactory |
| -do- | -do- | 2870 | Failed |
| -do- | -do- | 3070 | Satisfactory |
| 1-22-79 | RCP .90"Ø | 3232 | -do- |
| -do- | -do- | 3241 | -do- |
| -do- | -do- | 2561 | Failed |
| 2-3-79 | RCP .90"Ø | 3077 | Satisfactory |
| -do- | -do- | 3672 | -do- |
| -do- | -do- | 3345 | Satisfactory |
| 2-12-79 | RCP .60"Ø | 4161 | Satisfactory |
| -do- | -do- | 3675 | -do- |
| -do- | -do- | 3444 | -do- |
| 2-21-79 | RCP .60"Ø | 3907 | -do- |
| -do- | -do- | 3703 | -do- |
| -do- | -do- | 3553 | -do- |
| 3-11-79 | RCP .60" Ø | 2674 | Failed |
| -do- | -do- | 3001 | Satisfactory |
| -do- | -do- | 3271 | -do- |
| 7-4-79 | RCBC Bottom Slab | 4260 | Passed |
| -do- | -do- | 3078 | -do- |
| 7-9-79 | RCBC Sidewall | 3078 | -do- |
| -do- | -do- | 2494 | 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- | 3838 | Passed |
| -do- | -do- | 4097 | Passed |
| 9-22-79 | RCBC Top Slab | 3195 | Passed |
| -do- | -do- | 3135 | Passed |
| 10-18-79 | Sidewall | 2480 | Failed* |
| -do- | -do- | 2534 | Failed* |
| -do- | -do- | 3141 | Passed |
| 10-25-80 | RCBC Top Slab | 3281 | Passed |
| -do- | -do- | 2728 | Failed* |
| -do- | -do- | 3576 | Passed |
| 11-8-79 | RCP 1.20"Ø | 2421 | Failed* |
| 11-10-79 | -do- | 2922 | Failed* |
| 11-21-79 | -do- | 2309 | Failed* |
| 11-26-79 | RCP .60"Ø | 3055 | Passed |
| -do- | -do- | 2340 | Failed* |
| 11-28-79 | -do- | 3506 | Passed |
| -do- | -do- | 3397 | Passed |
| 11-21-79 | RCBC Wingwall | 3506 | Passed |

| | | | |
|---|---|---|---|
| 11-21-79 | RCBC Wingwall | 4089 | Passed |
| 11-26-79 | RCBC APRON | 2822 | Failed* |
| -do- | -do- | 2962 | Failed* |
| 11-28-79 | RCBC Wingwall | 2630 | Passed |
| -do- | -do- | 3840 | Passed |
| 4-14-80 | Pier, Balogo Bridge | 3801 | Passed compressive |
| -do- | -do- | 3677 | strength required |
| -do- | -do- | 1842 | -do- |
| 3-25-80 | Coping Abut, A | 3094 | -do- |
| -do- | -do- | 3172 | -do- |
| 3-31-80 | Coping, Abut. B | 3545 | -do- |
| -do- | -do- | 2814 | -do- |
| 3-27-80 | Backwall, Abut. A | 2387 | Failure* |
| -do- | -do- | 1943 | Failure* |
| -do- | -do- | 2457 | Failure* |
| 4-21-80 | Coping Abut, Mata Bridge | 2806 | Failure* |
| -do- | -do- | 2612 | |
| -do- | -do- | 3055 | |
| 4-22-80 | Backwall, Abut.B,Mata Br. | 2783 | Passed compressive |
| -do- | -do- | 3055 | strength required |
| -do- | -do- | 3358 | -do- |
| 5-3-80 | Girder, Balogo Bridge | 3529 | -do- |
| -do- | -do- | 2861 | -do- |
| -do- | -do- | 3327 | -do- |

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

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

DRAINAGE & EROSION WORK

Secondary Road (Minalabac-Antipolo-Kuba)

| | AS SCHEDULED | | | A COMPLISHED | | Headwall |
|---|---|---|---|---|---|---|
| | Size | # of pcs. | Size | # of pcs. | # of LM | |
| Sta. 0 + 450 | 24"Ø | 14 | - | | | w/headwall |
| Sta. 0 + 600 | 24"Ø | 16 | - | | | |
| Sta. 0 + 987.02 | 24"Ø | 13 | - | | | |
| Sta. 1 + 047.67 | 48"Ø | 18 | 48"Ø | 18 | 18LM | w/ headwall |
| Sta. 1 + 170.52 | 48"Ø | 18 | 48"Ø | 18 | 18LM | -do- |
| Sta. 1 + 475.00 | 36"Ø | 18 | 36"Ø | 18 | 18LM | -do- |
| Sta. 2 + 875.00 | 24"Ø | 17 | 36"Ø | 17 | 17LM | -do- |
| Sta. 2 + 143.82 | 24"Ø | 18 | 24"Ø | 18 | 18LM | -do- |
| Sta. 2 + 652.12 | 24"Ø | 13 | 24"Ø | 13 | 13LM | -do- |
| Sta. 2 + 853.72 | 24"Ø | 15 | 24"Ø | 15 | 15LM | -do- |
| Sta. 2 + 900.00 | 24"Ø | 14 | 24"Ø | 14 | 14LM | -do- |
| Sta. 3 + 111.44 | 36"Ø | 15 | 36"Ø | 15 | 15LM | -do- |
| Sta. 3 + 389.45 | 24"Ø | 12 | 24"Ø | 12 | 12LM | -do- |
| Sta. 3 + 325.00 | - | - | 36"Ø | 12 | 12LM | -do- |
| Sta. 3 + 787.00 | 36"Ø | 13 | 36"Ø | 13 | 13LM | -do- |
| Sta. 3 + 910 | 36"Ø | 13 | 36"Ø | 13 | 13LM | -do- |
| Sta. 4 + 144.13 | 24"Ø | 13 | 24"Ø | 13 | 13LM | -do- |
| Sta. 4 + 369.02 | 24"Ø | 13 | 24"Ø | 13 | 13LM | -do- |
| Sta. 4 + 854.15 | - | - | 24"Ø | 13 | 13LM | -do- |
| Sta. 4 + 925.00 | 36"Ø | 15 | 36"Ø | 15 | 15LM | -do- |
| Sta. 5 + 183.15 | - | - | 24"Ø | 12 | 12LM | -do- |
| Sta. 6 + 225.00 | 24"Ø | 16 | 24"Ø | 16 | 16LM | -do- |
| Sta. 6 + 425.00 | 24"Ø | 15 | 24"Ø | 15 | 15LM | -do- |
| Sta. 6 + 677.00 | 24"Ø | 15 | 24"Ø | 15 | 15LM | -do- |
| Sta. 6 + 755.30 | 36"Ø | 16 | 36"Ø | 16 | 16LM | -do- |
| Sta. 7 + 250.00 | 48"Ø | 18 | 48"Ø | 18 | 18LM | -do- |
| Sta. 8 + 055.00 | 24"Ø | 14 | 24"Ø | 14 | 14LM | -do- |
| Sta. 8 + 066.00 | 36"Ø | 15 | 36"Ø | 15 | 15LM | -do- |
| Sta. 8 + 072.30 | 24"Ø | 15 | 24"Ø | 15 | 15LM | -do- |
| Sta. 8 + 222.00 | 24"Ø | 13 | 24"Ø | 13 | 13LM | -do- |
| Sta. 8 + 459.00 | 24"Ø | 12 | 24"Ø | 12 | 12LM | -do- |
| Sta. 8 + 650.00 | 24"Ø | 14 | 24"Ø | 14 | 14LM | -do- |

FEEDER ROAD #401 - Antipolo-[illegible]-San Fernando

| STATION | AS SCHEDULED Size | AS SCHEDULED No. of pcs. | ACCOMPLISHED Size | ACCOMPLISHED No. of pcs. | ACCOMPLISHED No. of L.M. | Headwall |
|---|---|---|---|---|---|---|
| 0 + 175 | 24"Ø | 12 | 24"Ø | 12 | 12LM | w/ Headwall |
| 0 + 425 | 30"Ø | 11 | 30"Ø | 11 | 11LM | w/ excavation |
| 0 + 713 | 48"Ø | 34 | 48"Ø | 34-2 lines | 34LM | -do- |
| 1 + 175 | 48"Ø | 19 | 48"Ø | 19 | 19LM | w/ headwall |
| 1 + 357 | 36"Ø | 12 | 36"Ø | 12 | 12LM | w/ excavation |
| 1 + 850.67 | 48"Ø | 22 | 48"Ø | 22-2lines | 22LM | -do- |
| 2 + 051 | 36"Ø | 12 | 36"Ø | 12 | 12LM | -do- |
| 2 + 326.50 | 30"Ø | 22 | 30"Ø | 22-2lines | 22LM | -do- |
| 2 + 539.50 | 48"Ø | 10 | 48"Ø | 10 | 10LM | w/ headwall |
| 2 + 675 | 48"Ø | 30 | 48"Ø | 30-2lines | 30LM | w/ excavation |
| 3 + 055.5 | 48"Ø | 11 | 48"Ø | 11 | 11LM | w/ excavation |
| 3 + 325 | 48"Ø | 24 | 48"Ø | 24-2lines | 24LM | w/ excavation |
| 3 + 675 | 48"Ø | 24 | 48"Ø | 24-2lines | 24LM | -do- |
| 4 + 043 | 48"Ø | 13 | 48"Ø | 13 | 13LM | w/ headwalls |
| 4 + 087.45 | 48"Ø | 7 | 48"Ø | 7(extended) | 7LM | w/ excavation |
| 4 + 244.70 | 18"Ø | 6 | 18"Ø | 6(extended) | 6LM | -do- |
| 4 + 590 | 24"Ø | 4 | 24"Ø | 4(extended) | 4LM | w/ headwalls |

FEEDER ROAD #402 - Hulo-Daliwag

| STATION | AS SCHEDULED | | ACCOMPLISHED | | | Headwall |
|---|---|---|---|---|---|---|
| | Size | # of pcs | Size | # of pcs. | # of LM | |
| 0 + 373.80 | 36"Ø | 22 | 36"Ø | 22-2 lines | 22LM | - |
| 0 + 846.30 | 36"Ø | 36 | 36"Ø | 36-3 lines | 36LM | - |
| 0 + 968.00 | 36"Ø | 12 | 36"Ø | 12 | 12LM | - |
| 1 + 202.30 | 24"Ø | 12 | 24"Ø | 12 | 12LM | - |
| 1 + 598.00 | 24"Ø | 12 | 24"Ø | 12 | 12LM | - |
| 1 + 970.10 | 24"Ø | 12 | 24"Ø | 12 | 12LM | - |
| 2 + 125 | - | - | 24"Ø | 12 | 12LM | - |
| 2 + 403.54 | Existing | 1-30 | x 25M | RCP to remain | | - |
| 2 + 323.00 | 36"Ø | 12 | 36"Ø | 12 | 12LM | - |
| 2 + 550.00 | 24"Ø | 14 | 24"Ø | 14 | 14LM | - |

FERNANDO ROAD [illegible] - [illegible]-[illegible] [illegible] Cao

| STATION | AS PROPOSED | | AS DONE | | | Headwall |
|---|---|---|---|---|---|---|
| | Size | No. of pcs. | Size | No. of pcs. | No. of LM | |
| 0 + 137.00 | 48"Ø | [illegible] | 48"Ø | 30 - 2lines | [illegible] | - |
| 0 + 300.00 | 36"Ø | 16 | 48"Ø | 16 | 16LM | - |
| 0 + 506.01 | 24"Ø | 4 | D E L E T E D | | - | - |
| 0 + 625.00 | [illegible] | 22 | 48"Ø | 26-2lines | 26LM | - |
| 1 + 113.00 | 48"Ø | [illegible] | D E L E T E D TO BE REPLACED BY RCBC | | | |
| 1 + 200.00 | 48"Ø | [illegible] | 24"Ø | 11 | 11LM | - |
| 1 + 400.00 | 36"Ø | 6 | 36"Ø | 6 | 6LM | - |
| 1 + 604.20 | 36"Ø | 12 | 36"Ø | 12 | 12LM | - |
| 1 + 791.34 | 48"Ø | 16 | 48"Ø | 10 | 10LM | - |
| | Note: On this station, 1+791.34, the contractor had already delivered 12 pcs. of 48"Ø but two (2) pieces were damaged by typhoon. | | | | | |
| 1 + 900.00 | 48"Ø | 14 | 48"Ø | 10 | 10LM | bal. 4 pcs. |
| 1 + 992.11 | 36"Ø | 12 | 36"Ø | 12 | 12LM | - |
| 4 + 593.60 | 36"Ø | 17 | 36"Ø | 16 | 16LM | bal. 1 pc. |
| 5 + 097.00 | 36"Ø | 15 | 36"Ø | 14 | 14LM | bal. 1 pc. |
| 5 + 299.40 | 24"Ø | 11 | 24"Ø | 11 | 11LM | - |
| 5 + 759.60 | 36"Ø | 13 | 36"Ø | 13 | 13LM | - |
| 6 + 050.00 | 36"Ø | [illegible] | D E L E T E D | | * | - |
| 6 + 315.00 | 36"Ø | [illegible] | 36"Ø | 16 | 16LM | bal. 1 pc. |
| 6 + 523.00 | 36"Ø | 22 | 36"Ø | [illegible] | 22LM | - |

## WEATHER REPORT

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

| DATE | WEATHER | REMARKS | Time extension Recommended |
|---|---|---|---|
| Mar.26'81 | Fair | Workable | None |
| 27 | Fair | Workable | None |
| 28 | Fair | Workable | None |
| 29 | Fair | Workable | None |
| 30 | Fair | Workable | None |
| 31 | Fair | Workable | None |
| Apr. 1 | Fair | Workable | None |
| 2 | Fair | Workable | None |
| 3 | Fair | Workable | None |
| 4 | Fair | Workable | None |
| 5 | Fair | Workable | None |
| 6 | Fair | Workable | None |
| 7 | Fair | Workable | None |
| 8 | Fair | Workable | None |
| 9 | Fair | Workable | None |
| 10 | Fair | Workable | None |
| 11 | Fair | Workable | None |
| 12 | Fair | Workable | None |
| 13 | Fair | Workable | None |
| 14 | Fair | Workable | None |
| 15 | Fair | Workable | None |
| 16 | Fair | Workable | None |
| 17 | Fair | Workable | None |
| 18 | Fair | Workable | None |
| 19 | Fair | Workable | None |
| 20 | Fair | Workable | None |
| 21 | Fair | Workable | None |
| 22 | Fair | Workable | None |
| 23 | Fair | Workable | None |
| 24 | Fair | Workable | None |
| 25 | Fair | Workable | None |

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

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

EMPLOYMENT GENERATION SURVEY (SGS)

NAME OF CONTRACTOR POLYTRADE CONSTRUCTION, INC.

FOR THE MONTH OF _____, 19[illegible]

| | ADMINISTRATIVE/ MANAGERIAL | ENGINEERING/ TECHNICAL | SKILLED | UNSKILLED |
|---|---|---|---|---|
| MANAGERIAL 1/ | 2 | 2 | 4 | [illegible] |
| LOCALLY HIRED 2/ | 7 | | 26 | 12 |
| SUB-CONTRACTORS 3/ | | | | |
| TOTAL | 11 | | [illegible] | 13 |

1/ Includes [illegible] employees

2/ Employees residing within the basin area

3/ Local hired only

Submitted by:

(SGD.) ILAGROS A. NORBERTO
Project Engineer

Hinalalac-Antipolo-Hubo Road Project

POLLEFADI CONSTRUCTION, INC.
Minalabac, Camarines Sur

LIST OF PERSONNEL

| Name | Position | Qualification |
|---|---|---|
| Perez, Teoforo | Project Manager | Civil Engineer |
| Espeso, Leonardo | Project Supervisor | Civil Engineer |
| Sauco, Rego | Shop Supervisor | Experienced |
| Cruz, Nestor | Administrative Officer | BSBA |
| Manual Aguila | C.E. Draftsman | Civil Engin eer |
| Perpetuo, Avila | Lab. Technician | Experienced |
| Reyes, Efren | Controller | -do- |
| Tragante, Crisco | Watchmen | -do- |
| Pellosis, Eduardo | -do- | -do- |
| Asis, Leoncio | -do- | -do- |
| Luna, Freddie | Mechanic | -do- |
| Caisip, Rogelio | -do- | -do- |
| Leon, Luis de | La . Aide | -do- |
| Adao, Hemeriano | Driver | -do- |
| Dolong, Rodelio | -do- | -do- |
| Balonso, Jolito | DD Operator | -do- |
| Francisco, Graciano | Loader Operator | -do- |

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

EMPLOYMENT GENERATION SURVEY(SS3)

NAME OF CONTRACTOR GENARO G. NUNEZ CONSTRUCTION, INC.

FOR THE MONTH OF _____ _____, 1981

| | ADMINISTRATIVE/ MANAGERIAL | ENGINEERING/ TECHNICAL | SKILLED | UNSKILLED |
|---|---|---|---|---|
| HIRED 1/ | | 10 | 13 | 9 |
| LOCALLY HIRED 2/ | | 2 | 4 | 11 |
| NON-RESIDENT 3/ | | | | |
| TOTAL | | 12 | 17 | 20 |

1/ Includes permanent employee

3/ Employees residing within the basin area

2/ Local hired only

Submitted by:

(SGD.) ANTONIO BANZON
Project Engineer

/ched

GENARO S. REYES CONSTRUCTION
Vinalalac, Camarines Sur

LIST OF EQUIPMENT

| Name | POSITION | Qualification |
|---|---|---|
| Antonio Simeon | Project Manager | Civil Engineer |
| Jaime Tabogon | Project Engineer | -do- |
| Marcos Gallan | Roadway Foreman | Experienced |
| Maximo Mendoza | Structural Foreman | -do- |
| Menita Avila | Controller | -do- |
| Armando Cidania | Instrument Man | -do- |
| Vilam Pancito | Clerk/Typist | -do- |
| Susan Ovenna | Property Costudian | -do- |
| Dong Cidania | Survey Aide | -do- |
| Rolando Dacusan | -do- | -do- |
| Dominador Salado | PD Operator | -do- |
| Leonardo Valentin | PD Operator | -do- |
| Elpedio Mauricio | Loader Operator | -do- |
| Macario Langay | Roller Operator | -do- |
| Bernardo Castillo | Roller Operator | -do- |
| Jose Canada | Driver | -do- |
| Ruben Jacobe | -do- | -do- |
| Ricardo Arevalo | -do- | -do- |
| Pedro Suyat | Overseer | -do- |

| | | |
|---|---|---|
| Daniel Santiago | Equipment Helper | Experienced |
| Tacio Bulado | Mechanic | -do- |
| Wilfredo Bante | -do- | -do- |
| Felipe Tuazon | -do- | -do- |
| Pedro Renta | Laborer | -do- |
| Romeo Asada | -do- | -do- |
| Andres Pendenc | -do- | -do- |
| Jaime Rupili | -do- | -do- |
| Faustino Abundio | -do- | -do- |

## LIST OF HEAVY EQUIPMENTS

Secondary Road:

A. Bulldozer

1 unit D-6 Caterpillar

B. Dump Trucks

2 Ford (6-wheeler)

1 Isuzu (6-wheelers)

C. Loader

1 Isuzu Loader

D. Grader

1 unit Caterpillar

E. Rollers

1 Pneumatic Roller

2 Tandems

F. Water Truck

1 unit on top of 6 wheeler truck

G. Asphalted Distributor

Feeder Roads:

A. Dump Truck

1 unit 10-wheeler Isuzu

2 units 6-wheeler Isuzu

B. Roller

1 Tandem

1 Pneumatic Roller

C. Loader

1 unit caterpillar

D. Grader

1 unit Caterpillar

E. 1 unit Caterpillar

LIST OF OFFICE EQUIPMENT

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

LIST OF LABORATORY EQUIPMENT

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

| | | |
|---|---|---|
| 8 - inch Brass Mess No. 60 | 1 | pc. |
| 8 - inch Brass Mess No. 100 | 1 | pc. |
| 8 - inch Brass Mess No. 200 | 1 | pc. |
| Sample Splitter 2½ Chute width | 1 | set |
| Heavy duty solution Balance 20 kg. cap change [illegible]-1113D | 1 | set |
| Triple Beam Balance 0.1 sea | 1 | set |
| Volumetric Flash 500 ml. | 1 | set |
| Liquid Limit Device/grooving tool | 1 | set |
| Plastic Limit | 1 | set |
| Centrogram Balance 0.01 sea | 1 | set |
| Rectangular pan 4" x 4" x 10" | 1 | pc. |
| Square pan 24" x 24" | 1 | pc. |
| Modified Compaction Mold 1/13.33 | 1 | pc. |
| Modified Compaction Mold 10 lbs. | 1 | pc. |
| Modified Compaction Hammer 5.5 lbs. | 1 | pc. |
| Wash Bottle 1000 ml. | 1 | pc. |
| Field Density Set | 1 | pc. |
| Field Bucket | 1 | pc. |
| Oven, Electric Memmert #760190 | 1 | unit |
| Harvard Trip Balance Chause | 1 | set |
| 8 - inch Brass Sieve No. 4 | 1 | unit |
| Spring Balance 12 Kilos Cap. | 1 | unit |
| Compaction Mold 1/10 cu.ft. | 1 | set |

| | | |
|---|---|---|
| Frying Pan 13" x 13" | 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/ Tamperin Rod | 1 | pc. |
| Work Table, 1.20 x 2.40m | 1 | ea. |
| Simple wooden chair | 5 | pc. |
| Corenter w/ G.I. sink | 1 | set |
| Wooden filin 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, RIO, and representative of Auditor's Office on March 23 & 26, 1979 respectively.

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

NOTE:

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

FEBRUARY 7, 1979
START OF CONTRACT TI

| ESTIMATED % WEIGHT | | | | | | |
|---|---|---|---|---|---|---|
| SCHEDULED | ACCOMPLISHED PROJECT | ACCOMPLISHED ITEM | QUANTITY | UNIT COST | AMOUNT | |
| 0.29910 | 0.29910 | 100 | 18 mos. | 2,400.00 | 43,200.00 | |
| 0.49850 | 0.49850 | 100 | | Lump Sum | 72,000.00 | |
| 0.22156 | 0.22155 | 100 | | Lump Sum | 32,000.00 | |
| 0.49850 | 0.49850 | 100 | | Lump Sum | 72,000.00 | |
| 0.86614 | 0.86614 | 100 | 27.8 Has. | 4,500.00 | 125,100.00 | |
| 0.01765 | 0.01765 | 100 | 1 each | 2,550.00 | 2,550.00 | |
| 2.14633 | 2.14633 | 100 | 15,500 cum. | 20.00 | 310,000.00 | |
| 2.17845 | 2.17845 | 100 | 16,560 cum. | 19.00 | 314,640.00 | |
| 9.25865 | 9.25865 | 100 | 83,580 cum. | 16.00 | 1,337,280.00 | |
| 2.99944 | 2.99944 | 100 | 16,534.37cm. | 26.201 | 433,217.00 | |
| 0.13290 | 0.13290 | 100 | 770 cum. | 24.93 | 19,196.10 | |
| 0.16801 | 0.16573 | 83.7 | 1,300 cum. | 22.00 | 28,600.00 | |
| 31.47323 | 30.93818 | 98.3 | 142,055 cum. | 32.00 | 4,545,760.00 | |
| 11.80213 | 11.04680 | 93.6 | 54,635 cum. | 31.20 | 1,704,612.00 | |
| 10.85831 | 10.05551 | 92.7 | 27,782 cu.m. | 56.45 | 1,568,293.90 | |
| 7.37659 | 6.41764 | 87.0 | 19,730 cum. | 54.00 | 1,065,420.00 | |
| 0.05019 | 0.04535 | 90.34 | 145 cum. | 50.00 | 7,250.00 | |
| 0.04579 | 0.04580 | 100 | 22,050 sq.m. | 0.30 | 6,615.00 | |
| 3.24545 | 2.20691 | 68.00 | 7,500 cu.m. | 62.50 | 468,750.00 | |
| 0.84745 | 0.55931 | 66.00 | 51 M.T. | 2,400.00 | 122,400.00 | |
| 0.49460 | 0.32956 | 66.07 | 700 cu.m. | 100.00 | 70,000.00 | |
| 1.69480 | 1.15253 | 68.0 | 102 M.T. | 2,400.00 | 244,800.00 | |
| 0.53235 | 0.16616 | 50.00 | 4 SPANS | 12,000.00 | 48,000.00 | |
| 1.94665 | 1.76966 | 90.9 | 396 L.M. | 710.00 | 281,160.00 | |
| 0.37388 | 0.37387 | 100 | 4 each | 13,500.00 | 54,000.00 | |
| 0.07446 | 0.07446 | 100 | 71.70 L.M. | 150.00 | 10,755.00 | |
| 2.35425 | 1.34475 | 57.0 | 487 cum. | 690.00 | 336,030.00 | |
| 0.88027 | 0.88027 | 100 | 163 cum. | 780.00 | 127,140.00 | |
| 0.07202 | - | - | 14 cum. | 743.00 | 10,402.00 | |
| 1.21304 | 1.21302 | 99.99 | 25,765 kgs. | 6.80 | 175,202.00 | |
| 0.18853 | 0.00043 | 0.23 | 39890 kgs | 7.00 | 27,230.00 | |
| 0.03212 | - | - | 29 L.M. | 160.00 | 4,640.00 | |
| 0.00582 | 0.00582 | 100 | 6 L.M. | 140.00 | 840.00 | |
| 0.86469 | 0.81454 | 94.20 | 362 L.M. | 345.00 | 124,890.00 | |
| 0.41209 | 0.63103 | 153.13 | 96 L.M. | 620.00 | 59,520.00 | |
| 1.22058 | 1.05822 | 86.69 | 289 L.M. | 610.00 | 176,290.00 | |
| 2.36165 | 2.00976 | 85.00 | 379 L.M. | 900.00 | 341,100.00 | |
| 0.19732 | 0.19732 | 100 | 190 cum. | 150.00 | 28,500.00 | |
| 0.30575 | 0.05057 | 16.64 | 914 L.M. | 48.00 | 43,872.00 | |
| | 93.68% | | | | | |

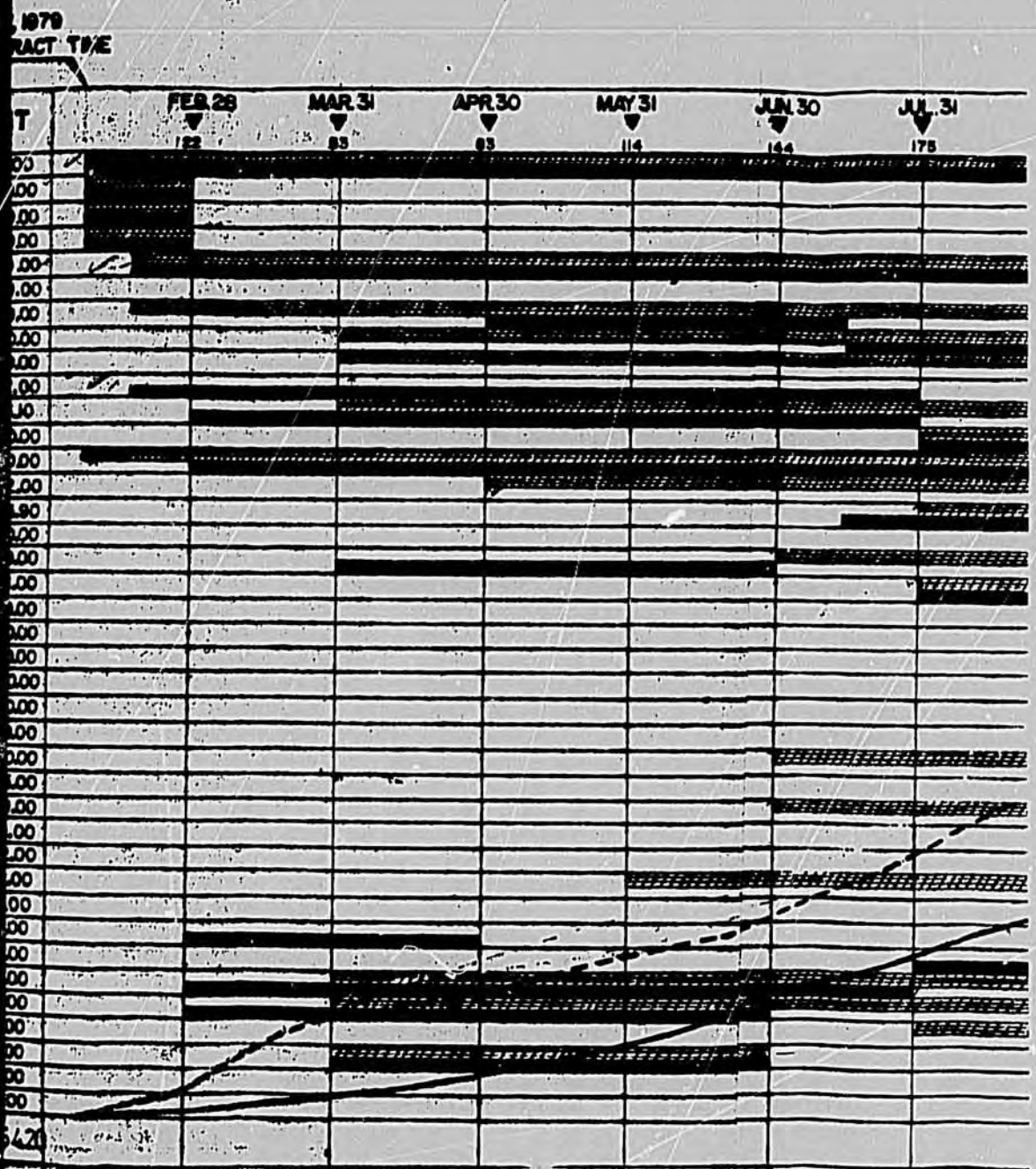
as of APRIL 25, 1981

₱12,443,254.20

MONTHLY ACCOMPLISHMENT

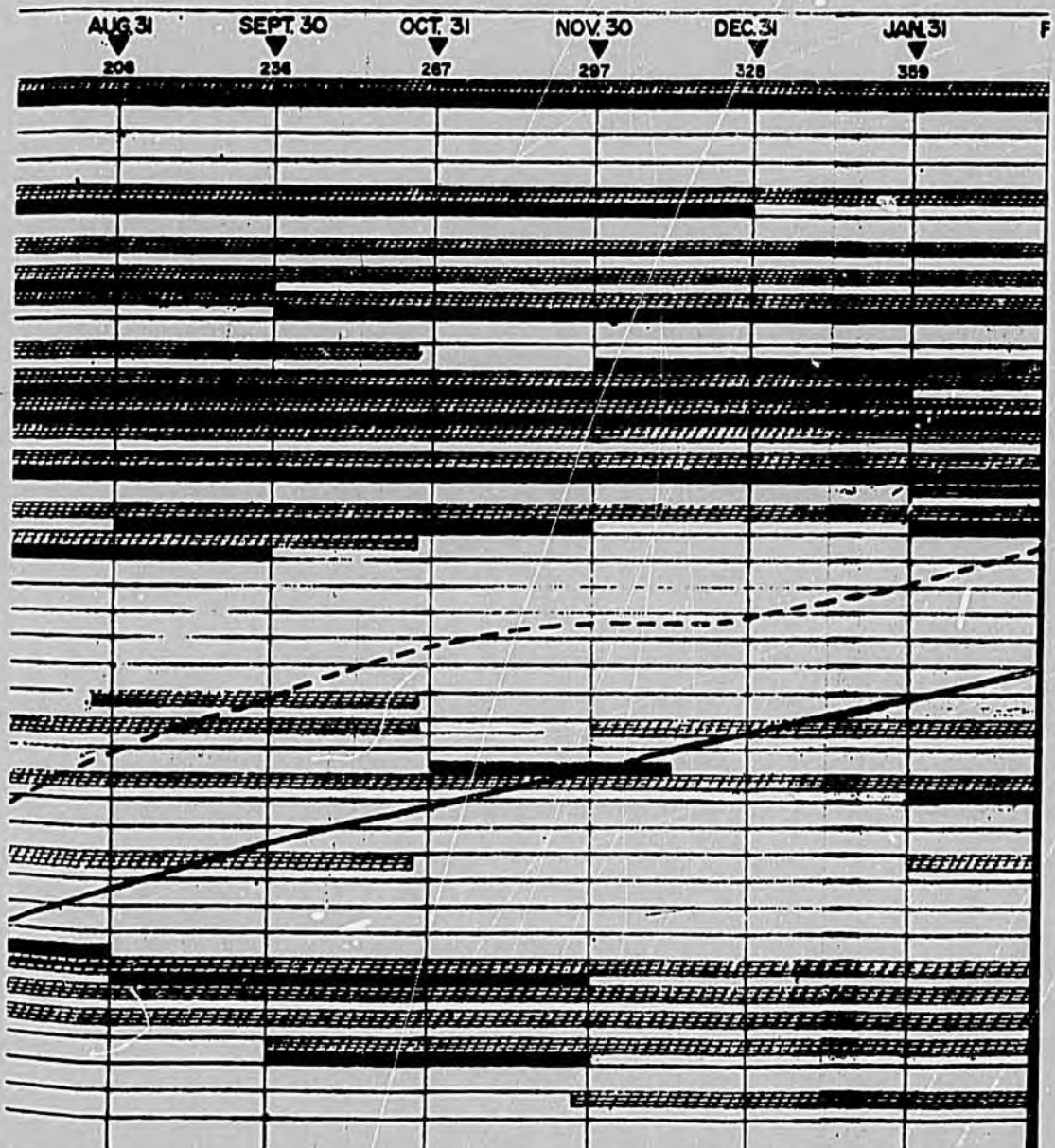
CUMULATIVE TOTAL AMOUNT

# REVISED BAR




| | | | | | | |
|---|---|---|---|---|---|---|
| [illegible] | [illegible] | 417,153.11 | 541,915.52 | 538,031.99 | 543,417.62 | 507,585.2 |
| | 592,052.35 | 1,009,204.27 | 1,551,119.79 | 2,089,951.78 | 2,633,369.40 | 3,140,954.6 |

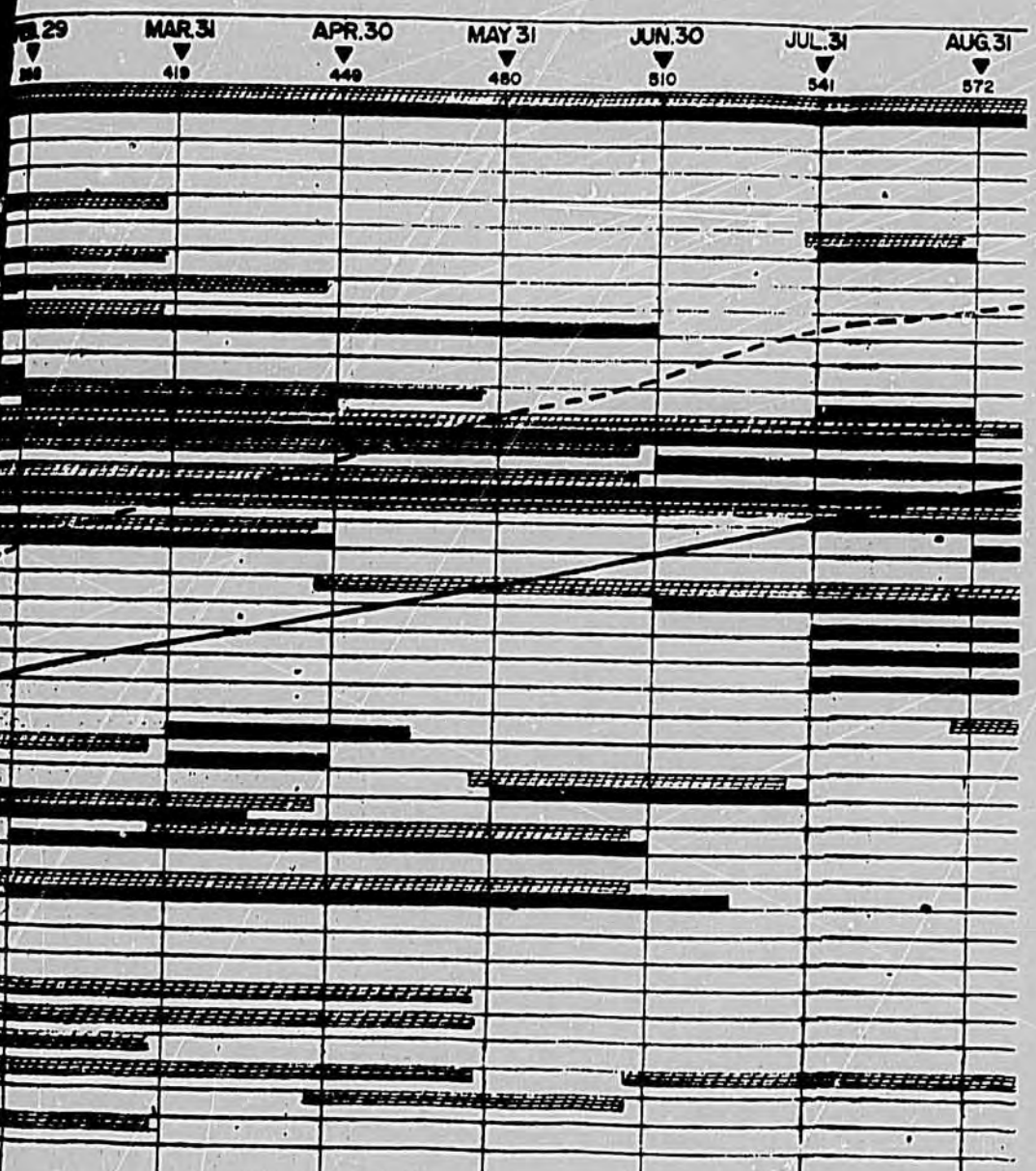
# AR SCHEDULE OF WORK AS OF N
# OF
# MINALABAC-ANTIPOLO-HUBO



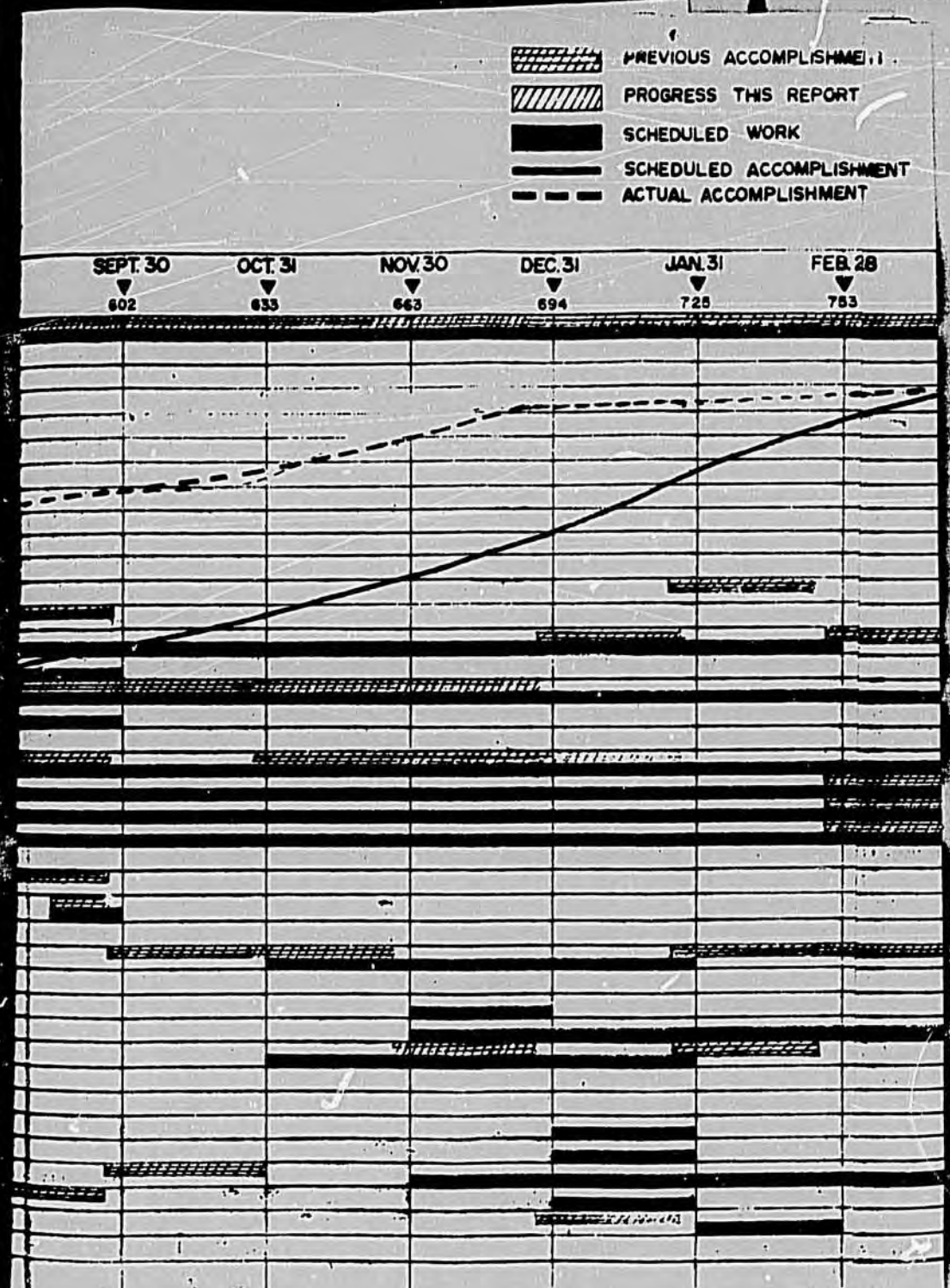

| | | | | | | |
|---|---|---|---|---|---|---|
| 07,585.25 | 520,904.86 | 578,940.08 | 581,300.89 | 530,105.78 | 516,334.39 | 574,883.1 |
| 40,954.65 | 3,661,859.51 | 4,240,799.59 | 4,822,100.48 | 5,352,206.26 | 5,868,540.65 | 6,443,423 |

NOVEMBER 26, 1980

ROAD



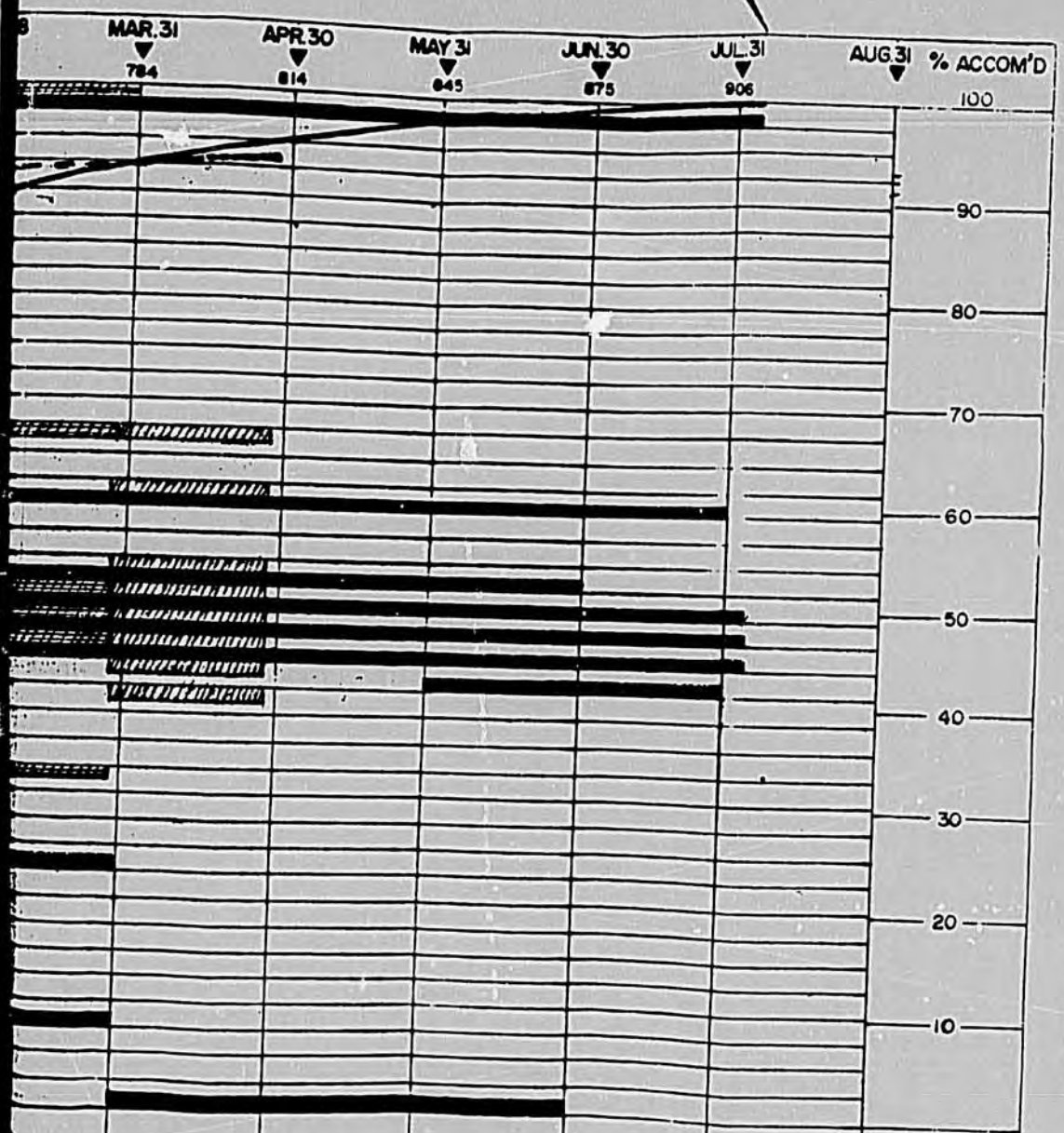

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 3 | 628,085.24 | 820,997.64 | 656,874.10 | 566,179.54 | 627,688.24 | 745,402.37 | 501 |
| 78 | 7,071,509.02 | 7,892,506.66 | 8,549,380.76 | 9,115,560.30 | 9,743,248.54 | 10,488,650.91 | 10,98 |




| | | | | | | |
|---|---|---|---|---|---|---|
| 394,678.34 | 379,024.24 | 447,968.22 | 524,283.76 | 596,512.44 | 468,521.62 | 287,171.2 |
| 10,883,329.25 | 11,820,353.49 | 11,820,321.71 | 12,344,605.47 | 12,941,117.91 | 13,409,639.53 | 13,696,810 |

MENT

AUGUST 5, 1981
TENTATIVE EXPIRY DATE 2nd Revision




| | | | | | |
|---|---|---|---|---|---|
| 7,171.20 | 195,881.66 | 197,110.70 | 219,881.66 | 167,424.20 | 6,145.25 |
| 26,810.73 | 13,852,692.39 | 14,049,803.09 | 14,269,684.75 | 14,437,108.95 | 14,443,254.20 |

BICOL RIVER BAS
(ROAD

MANPOWER SCHEDULE OF CONSULTA
PAC

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

SUB-PROJECT NO. 4, M

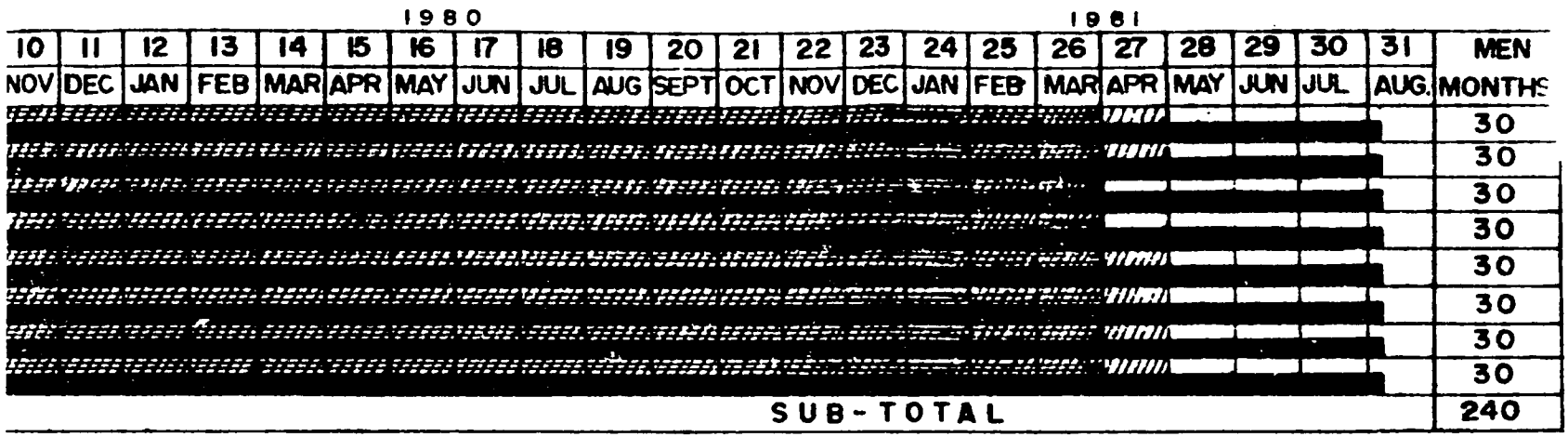
| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| J.A. TORRALBA | SR. MATLS ENGR. / R.E. | | | | | | (I | N | C | L | U D E D |
| V.E. PARIS | ENGR. INSP. (HWY.) | | | | | | | | | | |
| | ENGR. INSP. (BRIDGE) | | | | | | | | | | |
| C.C. ORTIZ | MATLS ENGR. | | | | | | | |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

* EFFECTIVE OCTOBER 16, 1980

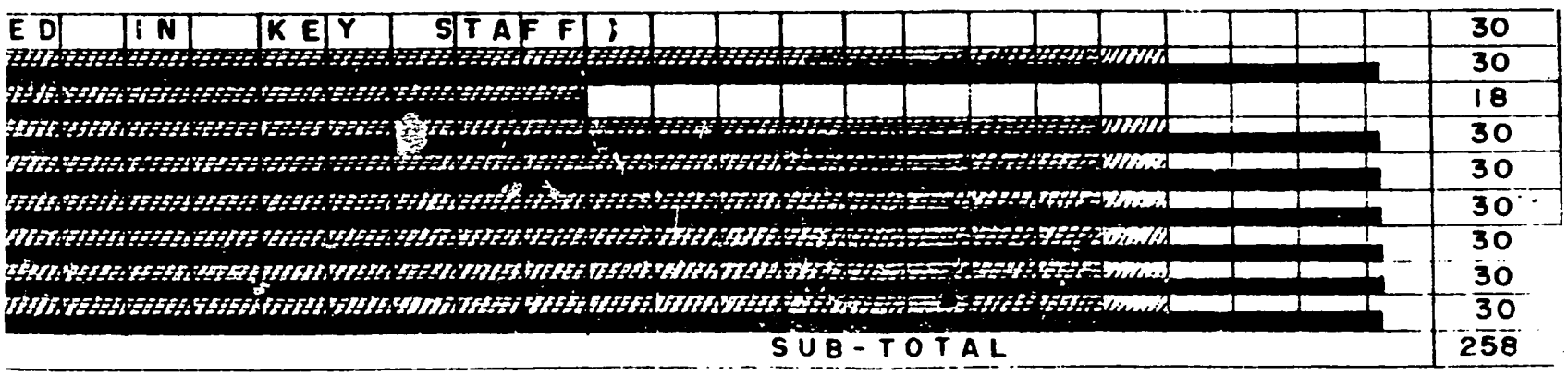
)ASIN DEVELOPMENT PROJECT
'AD COMPONENTS)

_TANT'S STAFF FOR CONSTRUCTION SUPERVISION

ACKAGE II




, MINALABAC-ANTIPOLO-HUBO ROAD



Bicol River Basin Development Project
Secondary and Feeder Roads

PACKAGE II

Pili-Natacroc Road Project

Sub-Project No. 5

onthly Construction Report
No. 32

Prepared by:

DANILO V. FILIO
Hwy. Inspector Engr.

Submitted by:

AMADO E. BANDELARIA
Deputy Project Manager

PROGRESS REPORT NO. 32

April, 1981

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

I. GENERAL:

This project consists of the construction of the following:

1. Secondary Road - 8.988 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 th Naga. Its end is at Baliwag Viejo, Minalabac Camarines Sur, a barrio dependent on water transportation via Bicol River before this project came to reality. As per plan, the entire Secondary Road shall be asphalted with 6.10 meters wide pavement. Drainage structures consist of RCP's of different sizes at different stations, one (1) span 10m RCDG at sta 3 + 398.71 and 4-0.80 x 0.80 M RCBC's.

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

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

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

5. San Jose-San Ramon, Feeder Road 504 - 1.961 kms., from sta 0+114.09 to sta 1+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 of different sizes at different stations, 1-0.80 x 0.80 RCBC and 1-2 span timber trestle bridge.

## II. PROGRESS

The contractor requested for termination without prejudice of his contract in the construction of Pili-Mataoroc Road Project last April 8, 1981, with the consultant and the Project Management Office recommending favorable action on the request.

An inventory survey of the project has been finished and the quantities to be undertaken has been determined by the joint team of the contractor and consultant. The corresponding program of work, price analysis, tender documents and other supporting papaer were submitted and indorsed by the project Director to the Ministry of Public Highways lastApril 30, 1981 hoping that it will be included in the bidding thru sealed canvass of terminated projects on May 7, 1981.

| Road | % Accomplished to date |
|---|---|
| Secondary Road - - - - - - - - - - - - - - | 45.3 |
| Mataoroc-Manapao-Baliwag,FR-501- - - - - | 32.11 |
| Manapao-San Isidro, FR 502 - - - - - - - | 5.94 |
| Manapao-Malitbog,FR 503 - - - - - - - - | 5.11 |
| San Jose-San Ramon, FR 504 - - - - - - - | 45 |

General (Secondary and Feeder Roads)

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

II. a Roads, Bridges and Drainage Structures
(Secondary Road)

Construction Survey

No activity during the month.

Earthwork

No activity during the month.

Subbase & Base

No activity during the month.

Surfacing

No activity during the month.

Structures

No activity during the month.

Physical Accomplishment

a. Roads

subgrade - 8.988 km
subbase - 8.200 km
base - 5.365 km

b. Bridges

sub-structures - 10 ln RC
abut on RC piles

superstructures - 1 span
10 LM RCDG

Drainage & Erosion Works

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

| SIZE O | RCP Installed (LM) Prev. Mo. | This Month | 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 | 0.30M | 6.00m |
| 1 + 013.87 | 12 | 0.30M | 14.40m |
| 1 + 376.30 | 10 | 0.30m | 12.00m |
| 7 + 010.00 | 11 | 0.30m | 13.20m |
| 7 + 525.00 | 11 | 0.30m | 13.20m |
| 8 + 210.00 | 11 | 0.30m | 13.20m |
| 8 + 812.00 | 13 | 0.30m | 15.60m |
| 8 + 955.25 | 14 | 0.30m | 16.80m |
| Total | 87 | | 104.40m |
| 2 + 912.00 | 10 | 0.46m | 12.00m |
| 4 + 535.00 | 10 | 0.46m | 12.00m |
| 4 + 825.00 | 10 | 0.46m | 12.00m |
| 6 + 100.00 | 9 | 0.46m | 10.80m |
| 6 + 315.00 | 11 | 0.46m | 13.20m |
| 7 + 275.00 | 11 | 0.46m | 13.20m |
| 7 + 407.00 | 11 | 0.46m | 13.20m |
| 7 + 850.00 | 12 | 0.46m | 14.40m |
| 8 + 010.00 | 11 | 0.46m | 13.20m |
| Total | 95 | | 114.00m |
| 0 + 100.00 | 10 | 0.61m | 12.00m |
| 0 + 300.00 | 10 | 0.61m | 12.00m |
| 1 + 625.00 | 10 | 0.61m | 12.00m |
| 3 + 100.00 | 10 | 0.61m | 12.00m |
| 3 + 525.00 | 12 | 0.61m | 14.40m |
| Total | 52 | | 62.40m |

| STATION | NUMBER | SIZE | LENGTH |
|---|---|---|---|
| 0 + 750.00 | 10 | 0.91m | 12.00m |
| 1 + 107.39 | 10 | 0.91m | 12.00m |
| 1 + 286.70 | 10 | 0.91m | 12.00m |
| 1 + 993.10 | 8 | 0.91m | 9.60m |
| 2 + 103.42 | 10 | 0.91m | 12.00m |
| 2 + 358.52 | 10 | 0.91m | 12.00m |
| 4 + 700.00 | 10 | 0.91m | 12.00m |
| 5 + 175.00 | 14 | 0.91m | 16.80m |
| 5 + 350.00 2@ | 12 | 0.91m2@ | 14.40m |
| 5 + 425.00 | 10 | 0.91m | 12.00m |
| 6 + 950.00 | 11 | 0.91m | 13.20m |
| 7 + 475.00 | 14 | 0.91m | 16.80m |
| 8 + 475.00 2@ | 13 | 0.91m2@ | 15.60m |
| 7 + 710.00 | 12 | 0.91m | 14.40m |
| Total | 179 | | 214.80m |
| 2 + 760.00 | 12 | 1.20m | 14.40m |
| 5 + 000.00 | 11 | 1.20m | 13.20m |
| 6 + 625.00 2@ | 14 | 1.20m2@ | 16.80m |
| 9 + 000.00 2@ | 12 | 1.20m2@ | 14.40m |

## 6. 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 | 23 | - | 23 |
| | Grading | 23 | - | 23 |
| | Compaction | 23 | - | 23 |
| | F. Density | 27 | - | 27 |
| | Sp.Gravity | 1 | - | 1 |
| 108 | Grading | 92 | - | 92 |
| | FL & LL | 92 | - | 92 |
| | Compaction | 92 | - | 92 |
| | F. Density | 252 | - | 252 |
| 402-2.5 (FA) | Grading | 4 | - | 4 |
| | Sp. Gravity | 1 | - | 1 |
| | Unit Wt. | 1 | - | 1 |
| 402-2.5 | Grading | 4 | - | 4 |
| | Sp. Gravity | 1 | - | 1 |
| | Unit Wt. | 1 | - | 1 |
| 405 - A | Design Mix | 2 | - | 2 |
| 405-2.3 (C.A.) | Grading | 2 | - | 2 |
| 405-2.2 (F.A.) | Grading | 2 | - | 2 |
| 405-C | Design Mix | 2 | - | 2 |
| 413 (FA.A) | Grading | 4 | - | 4 |
| | Sp.Gravity | 1 | - | 1 |
| | Unit Wt. | 1 | - | 1 |
| 413 (C.A.) | Grading | 5 | - | 5 |
| | Sp. Gravity | 1 | - | 1 |
| | Unit Wt. | 1 | - | 1 |

| Date | Location of Structure | Result after 28 days | Remarks |
|---|---|---|---|
| 11-4-78 | 12" Ø RCP | 3060 | Passed |
| -do- | -do- | 3450 | -do- |
| -do- | -do- | 3520 | -do- |
| 11-12-78 | 18" Ø RCP | 3145 | -do- |
| -do- | -do- | 3415 | -do- |
| 11-18-78 | 36" Ø RCP | 2871 | Failure |
| -do- | -do- | 3020 | Passed |
| -do- | -do- | 3350 | Passed |
| 11-24-78 | RC Test Pile, RCDG Sagrada Bridge | 3560 | Passed |
| -do- | -do- | 3630 | Passed |
| -do- | RC Test Pile, RCDG Mataoroc-Manapao Bridge | 3680 | Passed |
| -do- | -do- | 3840 | Passed |
| -do- | -do- | 3920 | Passed |
| 11-25-78 | 24" Ø RCP | 3090 | Passed |
| -do- | -do- | 3138 | Passed |
| 11-28-78 | 36" Ø RCP | 3111 | Passed |
| -do- | -do- | 3334 | -do- |
| 12-16-78 | 48" Ø RCP | 3377 | -do- |
| -do- | -do- | 3397 | -do- |
| -do- | -do- | 3425 | -do- |
| 12-18-78 | 18" Ø RCP | 2970 | Failure |
| -do- | -do- | 3340 | Passed |
| -do- | -do- | 3481 | Passed |
| 12-19-78 | 36" Ø RCP | 2614 | Failure |
| -do- | -do- | 3160 | Passed |
| -do- | -do- | 3457 | Passed |
| 12-2078 | 48" Ø RCP | 3410 | Passed |
| -do- | -do- | 3465 | Passed |
| -do- | -do- | 4020 | Passed |
| 2-12-79 | 36" Ø RCP | 3195 | -do- |
| -do- | -do- | 3332 | -do- |
| -do- | -do- | 3411 | -do- |
| 2-15-79 | 48" Ø RCP | 3000 | -do- |
| -do- | -do- | 3040 | -do- |
| -do- | -do- | 3087 | -do- |
| 2-16-79 | 12" Ø RCP | 3010 | -do- |
| -do- | -do- | 3444 | -do- |
| -do- | -do- | 3516 | -do- |
| 3-13-79 | RCP, RCDG, Sagrada Br. | 3562 | -do- |
| -do- | -do- | 3843 | -do- |
| -do- | -do- | 4108 | -do- |

**********

| Date | Location of Structure | Result after 28 days | Remarks |
|---|---|---|---|
| 3-13-79 | 24" ø RCP | 3,740 | Passed |
| -do- | -do- | 3,252 | Passed |
| -do- | -do- | 2,814 | Failure |
| 3-20-79 | 36" ø RCP | 3,452 | Passed |
| -do- | -do- | 3,149 | Passed |
| -do- | -do- | 3,432 | Passed |
| 3-23-79 | 48" ø RCP | 2,979 | Failure |
| -do- | -do- | 3,318 | Passed |
| -do- | -do- | 3,410 | Passed |
| 4-2-79 | 18" ø RCP | 3,065(15 days) | Passed |
| -do- | -do- | 3,243 -do- | -do- |
| 5-5-79 | 36" ø RCP | 3,106(12 days) | Satisfactory |
| -do- | -do- | 3,420 -do- | Satisfactory |
| -do- | -do- | 3,516 -do- | Satisfactory |
| 5-7-79 | 48" ø RCP | 3,296(33 days) | Satisfactory |
| -do- | -do- | 2,748 -do- | Failure |
| 5-9-79 | 18" ø RCP | 3,623 | Satisfactory |
| 5-12-79 | 36" ø RCP | 2,830 | Failure |
| -do- | -do- | 2.655 | Failure |
| -do- | -do- | 2,604 | Failure |
| 5-17-79 | 36" ø RCP | 2,892(23 days) | Satisfactory |
| -do- | -do- | 2,970 Ave.2936 | Satisfactory |
| -do- | -do- | 2,946 | -do- |
| 5-19-79 | 12" ø RCP | 3,202(21 days) | Passed |
| -do- | -do- | 2,989 3028 | Passed |
| -do- | -do- | 2,892 | strength requirement |
| 6-7-79 | Abutment "A" Sagrada Bridge | 3,382(32 days) | Passed compressive |
| -do- | -do- | 3,125 Ave.3,389 | strength requirement |
| -do- | -do- | 3,661 | |
| 6-23-79 | Abutment A&B Sagrada Bridge | 3,358 20 days | |
| -do- | Backwall & Wingwall | 2,799 Ave.3,182 | strength requirement |
| -do- | -do- | 3,389 | |
| 7-10-79 | 36" ø RCP | 2,799 Ave.3,431 | strength requirement |
| -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 | strength requirement |
| -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 | Item 405 | | Passed compressive |
| -do- | Sagrada Bridge | 3,415 | strength requirement |
| -do- | (Girders) | | |
| 8-4-79 | Test Pile Fr #501 | | |
| -do- | TTr Br. sat 0+218 0+224 | 3,260 | Passed compressive strength requirement |

| | | | |
|---|---|---|---|
| 8-6-79 | Test Pile Fr #501 | | |
| -do- | TTr Br. sta 1+367-1+385 | 2,565 | Failure |
| -do- | -do- | | |
| 8-10-79 | Item 405 | | |
| -do- | Sagrada Bridge | 3,295 | Passed compressive |
| 8-21-79 | Sagrada Bridge | | Passed compressive |
| -do- | Railing | 3,439 | strength requirement |
| -do- | -do- | | |
| 8-25-79 | Test Pile for TbTe | | |
| -do- | Sta 1+880 Fr 502 | 3,478 | strength requirement |
| -do- | -do- | | |
| 8-28-79 | RCBC, sta 4+000 | | |
| -do- | -do- | 3,322 | strength requirement |
| -do- | | | |
| 9-1-79 | Test Pile for TbTe | | |
| -do- | Sta 1+433 Fr 504 | 3,485(55 days) | -do- |
| 9-28-79 | RCP, 0.01 M ø | | |
| -do- | -do- | 3,156(27 days) | -do- |
| -do- | -do- | | |
| 10-12-79 | RCP, 0.30M ø | | |
| -do- | -do- | 3,195(13 days) | -do- |
| -do- | -do- | | |
| 10-12-79 | RCP, 0.61M ø | 3,247(13 days) | -do- |
| 10-15-79 | RCP, 0.61M ø | 3,247(13 days) | -do- |
| -do- | -do- | | |
| -do- | -do- | | |
| 10-16-79 | RCP, 0.80M ø | 3,021 | satisfactory |
| -do- | -do- | | |
| 11-7-79 | RCP, 1.20M ø | 3,060(9 days) | satisfactory |
| -do- | -do- | 3,250(15days) | Passed compressive |
| 11-10-79 | RCP, 0.46M ø | 3,174(12days) | strength req. |
| -do- | -do- | | strength req. |
| -do- | -do- | | |
| 11-11-79 | RCP, 1.20M ø | | |
| -do- | -do- | 3,213(11 days) | strength req. |
| -do- | -do- | | |
| 11-15-79 | RCBC km. +417.50 | 3,107(19days) | passed compressive |
| -do- | F.D. 504 San Jose-San Ramon | | |
| -do- | -do- | | |
| 11-22-79 | Headwall, Km 6+950 | 2,838(12days) | Passed compressive strength req. for 28 days |
| 11-23-79 | Headwall, Km 9+400 | 2,910(1 day) | |
| -do- | Secondary Road | | |
| -do- | -do- | | -do- |

| | | | |
|---|---|---|---|
| 12-6-79 | RCBC Km. 5+975 | 3,133(36 days) | Passed compressive strength req. |
| -do- | Secondary Road | | |
| -do- | -do- | | |
| 12-10-79 | RCBC km. 6+200 | 3,154(32days) | Passed compressive strength req. |
| -do- | Secondary Road | | |
| -do- | -do- | | |
| 12-11-79 | 18" ø RCP | 3,488(31 days) | -do- |
| -do- | -do- | | |
| -do- | -do- | | |
| 12-12-79 | 48" ø RCP | 3,418(30 days) | -do- |
| -do- | -do- | | |
| -do- | -do- | | |
| 1-7-80 | Bearing Piles | 3,268 (32 days) | |
| -do- | -do- | | |
| -do- | -do- | | |
| 1-9-80 | 48" ø RCP | 3,366 (30 days) | |
| -do- | -do- | | |
| -do- | -do- | | |
| 2-3-80 | Bearing Pile, km. 1+404-442 | | Passed compressive strength req. |
| -do- | FDR, # 504 | Ave. 3,369 (33 days) | |
| -do- | | | |
| 3-3-80 | Capping 3"-3, km. 1+871-889 | | |
| -do- | FDR # 502 | Ave. 3,200 (30 days) | -do- |
| -do- | | | |
| 3-4-80 | Capping #1-4, km. 1+871-889 | | |
| -do- | FDR # 502 | Ave.3,261 (28 days) | -do- |
| -do- | | | |
| 3-5-80 | Headwall, km. 1+993.10 | Ave. 3,261 (28 days) | -do- |
| -do- | Secondary Road | | |
| 3-5-80 | Wingwall, km. 4+000 | 3,226 (28days) | -do- |
| | Secondary Road | | |
| 3-7-80 | Headwall km. 0+050 | 3,164 (26 dyas) | -do- |
| | FDR # 501 | | |
| 3-20-80 | 12" ø RCP | | |
| -do- | -do- | Ave.3,208 (13 days) | -do- |
| -do- | -do- | | |
| 3-25-80 | Capping #1,2,4, km. 1+424 | Ave.3,299 (23 days) | -do- |
| -do- | FDR 504 | | |
| -do- | | | |

| | | | |
|---|---|---|---|
| 3-28-80 | Capping #3, km. 1+424 | Ave.3,321 | |
| -do- | FDR # 504 | (20 days) | strength |
| -do- | | | requirement |
| 3-28-80 | Headwall km. 3+158 | | |
| -do- | FDR # 501 | Ave.3,321 | strength |
| -do- | | (20 days) | requirement |
| 3-31-80 | Test Pile, km. 6+147.00 | | |
| -do- | FDR#501,Baliwag Side | Ave.3,190 | -do- |
| -do- | | (17 days) | |
| 4-1-80 | Test Pile, km.6+045.00 | | |
| -do- | FDR# 501 Manapao side | Ave.3,210 | |
| | | (16 days) | -do- |
| 4-12-80 | Bearing Pile, km.1+367.00 | | passed |
| -do- | FR 501 | Ave.3249(34 days) | compressive strength requirement |
| 4-15-80 | 0.61 ø RCP | Ave. 3332 (31 days) | strength |
| -do- | | | requirement |
| -do- | | | |
| 4-17-80 | HW, km.4+750.00 | 3203(29 days) | -do- |
| 4-23-80 | HW, km 2+257.00 | Ave.3,057(23 days) | -do- |
| -do- | Fr 501 | | |
| 4-26-80 | Capping, km 0+224.00 | Ave.3,146(28 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 | | |
| 5-3-80 | Headwall km. 0+500 | Ave.3,068 (13days) | -do- |
| -do- | Fr 503 | | |
| -do- | | | |
| 5-8-80 | Bearing Pile, km 0+084.00 | Ave.3,399 | |
| | Fr 501 | (33 days) | -do- |
| -do- | -do- | -do- | |
| -do- | -do- | -do- | |
| 5-10-80 | Pile Cap. km. 1+367.00 | Ave. 3791 | |
| | Fr 501 | (31 days) | -do- |
| -do- | -do- | -do- | |
| -do- | -do- | -do- | |
| 5-16-80 | Headwall km. 5+500.00 | Ave. 3099 | |
| | Fr 501 | (25 days) | |
| -do- | -do- | -do- | -do- |
| -do- | -do- | -od- | -do- |

Additional this month

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| RCBC | 1/7/10/80 | Fr#504, sta.0+301 | 8-18-80 | 69 | 3,623 | Ave. | Passed compressive strength requirement |
| | 2 | -do- | -do- | -do- | 69 | 3,747 | 3,641 |
| | 3 | -do- | -do- | -do- | 69 | 3,553 | (22091 psi 28 days) |
| RCBC | 1 | 6/4/80 | Fr#502 sta 0+493 | -do- | 65 | 3,480 | |
| | 2 | -do- | -do- | -do- | 65 | 3,522 | 3,488 passed compressive strength requirement |
| | 3 | -do- | -do- | -do- | 65 | 3,439 | |
| P.C. | 1/7/11/80 | Pile Bent 3 & 4 Fr | 5/18/80 | 383,249 | | | |
| | 2 | -do- # 501-Sta 6+045-6+147 | -do- | 383,397 | 3,314 | -do- | |
| | 3 | -do- | -do- | -do- | 383,296 | -do- | |
| P.C. | 1/7/17/80 | Pile Bent, Fr #501 | 8-18-80 | 323,312 | | | |
| | 2 | -do- Sta 6+045-6+147 | -do- | 323,133 | 3,224 | -do- | |
| | 3 | -do- | -do- | -do- | 323,226 | | |

**********

II. b Roads, Bridges & Drainage Structures

(Mataoroc-Manapao-Baliwag, Feeder Road 501)

Construction Survey

No activity during the month.

Earthwork

No activity during the month.

Subbase

No acitivty during the month.

Structures

No activity during the month.

Physical Accomplishment

a. Roads

subgrade - 6.790
subbase - 4.900
base
surfacing

b. bridges

substructure -24 span
6 LM TbTe bridge on
RC Abut

superstructure-15 spans
6 LM TbTe br. on RC
abut

Drainage & Erosion Works

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

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

**********

| STATION | NUMBER | SIZE | LENGTH |
|---|---|---|---|
| 1 + 727.00 | 8 | 0.30m | 9.60 m |
| 2 + 147.00 | 6 | 0.30m | 7.20 m |
| 2 + 587.00 | 6 | 0.30m | 7.20 m |
| 2 + 656.00 | 6 | 0.30m | 7.20 m |
| 2 + 800.00 | 6 | 0.30m | 7.20 m |
| 4 + 495.00 | 13 | 0.30m | 15.60 m |
| total | 45 | | 54.00 |
| 1 + 775.00 | 8 | 0.46m | 9.60 |
| 3 + 749.50 | 4 | 0.46m | 4.80 |
| 3 + 908.00 | 9 | 0.46m | 10.80 |
| 4 + 140.00 | 9 | 0.46m | 10.80 |
| 5 + 754.00 | 9 | 0.46m | 10.80 |
| 6 + 320.00 | 13 | 0.46m | 15.60 |
| 6 + 473.00 | 11 | 0.46m | 13.20 |
| 7 + 084.00 | 10 | 0.46m | 13.20 |
| 7 + 163.00 | 9 | 0.46m | 10.80 |
| total | 82 | | 98.40 |
| 2 + 013.00 | 8 | 0.61m | 9.60m |
| 0 + 650.00 | 9 | 0.91m | 10.80m |
| 1 + 550.00 | 10 | 0.91m | 12.00m |
| 3 + 150.00 | 9 | 0.91m | 10.80 |
| 3 + 034.00 | 9 | 0.91m | 10.80 |
| 4 + 750.00 | 8 | 0.91m | 9.60 |
| total | 45 | | 54.00 |
| 0 + 840.00 | 11 | 1.20m | 13.20m |
| 1 + 114.502@ | 14 | 1.20m 2@ | 16.80 |
| 2 + 257.00 | 10 | 1.20 | 12.00 |
| 2 + 440.002@ | 12 | 1.20 2@ | 14.40 |
| 5 + 500.00 | 9 | 1.20 | 10.80 |
| 5 + 703.20 | 10 | 1.20 | 12.00 |
| 5 + 821.40 | 10 | 1.20 | 12.00 |
| 6 + 000.00 | 9 | 1.20 | 10.00 |
| [illegible] 00 | 9 | 1.20 | 10.80 |
| 6 + 800.00 | 10 | 1.20 | 12.00 |
| 7 + 050.00 | 10 | 1.20 | 12.00 |
| 6 + 200.00 | 10 | 1.20 | 12.00 |
| 6 + 410.00 | 11 | 1.20 | 12.00 |
| 6 + 588.00 2@ | 11 | 1.20 2@ | 13.20 |
| total | 18[illegible] | | 219.60 |

Materials Testing and Control

| Item | Kind of Test | Number of Test Prev.Mo. | This Mo. | Total |
|---|---|---|---|---|
| 107 | Grading | 53 | - | 53 |
| | PL & LL | 53 | - | 53 |
| | Compaction | 53 | - | 53 |
| | F. Density | 249 | - | 249 |
| 105 | Grading | 1 | - | 1 |
| | PL & LL | 1 | - | 1 |
| | Compaction | 1 | - | 1 |
| | F. Density | 4 | - | 4 |
| 105-b | Grading | 4 | - | 4 |
| | PL & LL | 4 | - | 4 |
| | Grading | 16 | - | 16 |
| 108 | PL & LL | 16 | - | 16 |
| | Compaction | 16 | - | 16 |
| | F. Density | 51 | - | 51 |
| 402-2.2 | Grading | 2 | - | 2 |
| 402-2.3 | Grading | | | |
| | Design Mix | 2 | - | 2 |
| 402-2.2 | Grading | 4 | - | 4 |
| 405-2.3 | Grading | 2 | | 2 |

II. c **Roads, Bridges & Drainage Structures**
(Sagrada-San Isidro, Feeder Road No. 502)

**Construction Survey**

No activity during the month.

**Earthwork**

No activity during the month.

**Subbase & Base**

No activity during the month.

**Structures**

No activity during the month.

**Physical Accomplishment**

a. roads

subgrade-2.037
subbase- 1.800
base
surfacing

b. bridges

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

**Drainage & Erosion Works**

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

| SIZE | RCP Installed (LM) Prev.Mo. | This Mo. | Total |
|---|---|---|---|
| 0.46 | 9.60 | - | 9.60 |
| 0.61 | 21.60 | - | 21.60 |
| 1.20 | 9.60 | - | 9.60 |

| STATION | NUMBER | SIZE | LENGTH |
|---|---|---|---|
| 0 + 615.00 | 8 | 0.46m | 9.60m |
| 0 + 050.00 | 10 | 0.61m | 12.00m |
| 1 + 146.00 | 8 | 0.61m | 9.60m |
| total | 18 | | 21.60 |
| 1 + 569.00 20 | 8 | 1.20 | 9.60 |

## Materials Testing & Control

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

II. d **Roads, Bridges and Drainage Structures**
(Manapao-Malitbog, Feeder Road No. 503)

**Construction Survey**

No activity during the month.

**Earthwork**

No activity during the month.

**Subbase**

No activity during the month.

**Structures**

No activity during the month.

**Physical Accomplishment**

a. roads

subgrade - 1.493
subbase - 0.898
base
surfacing

b. bridges

substructure
superstructure

**Drainage & Erosion Works**

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

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

**********

| STATION | NUMBER | SIZE | LENGTH |
|---|---|---|---|
| 0 + 550.00 | 9 | 0.61m | 10.80m |
| 0 + 775.00 | 9 | 0.61m | 10.80m |
| 0 + 552.00 | 9 | 0.61m | 10.80m |
| total | 27 | | 32.40m |
| 0 + 246.00 | 10 | 0.46m | 12.00m |
| 0 + 343.00 | 10 | 0.46m | 12.00m |
| total | 20 | | 24.00m |
| 0 + 000.00 | 9 | 0.91m | 10.80m |
| 0 + 927.00 | 9 | 1.20m | 10.80m |
| 0 + 106.00 | 9 | 1.20m | 10.80m |
| total | 19 | | 21.60 |

**Materials Testing & Control**

| Item No. | Kind of Test | No. of Test Prev. Mo. | This Month | Total |
|---|---|---|---|---|
| 107 | Grading | 12 | - | 12 |
| | PL & LL | 12 | - | 12 |
| | Compaction | 12 | - | 12 |
| | F. Density | 42 | - | 42 |
| 105-B | Grading | 2 | - | 2 |
| | PL & LL | 2 | - | 2 |
| 108 | Grading | 5 | - | 5 |
| | PL & LL | 5 | - | 5 |
| | Compaction | 5 | - | 5 |
| | F. Density | 15 | - | 15 |
| 405-2.2 (FA) | | 1 | - | 1 |
| 408-2.3 (CA) | | 1 | - | 1 |

II. e **Roads, Bridges and Drainage Structures**

(San Jose-San Ramon, Feeder Road 502)

**Construction Survey**

No activity during the month.

**Subbase & Base**

No activity during the month.

**Structures**

No activity during the month.

**Physical Accomplishment**

a. roads

subgrade - 1.943
subbase - 1.940

bridges

substructure - 3 span
6 LM bridge on RC abut

**Drainage & Erosion Works**

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

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

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

**Materials Testing & Control**

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

## III. SUMMARY OF PHYSICAL ACCOMPLISHMENT TO DATE

a. **Roads**

| | Secondary Road | Feeder Road |
|---|---|---|
| subgrade | 8.988 km. | 12.263 km |
| subbase | 8.200 km | 9.538 km |
| base | 5.365 km | none |
| surfacing | none | none |

b. **Bridges**

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

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

EMPLOYMENT GENERATION SURVEY (SS3)

Name of Contractor A.B. AGUINALDO CONST. INC

For the month of April 1981

| | Administrative, Finance | Eng'g Technical | Skilled | Unskilled |
|---|---|---|---|---|
| Manila-based 1/ | 2 | 1 | | |
| Local-hired 2/ | | | | |
| Sub-contractors 3/ | | | | |
| Total | 2 | 1 | | |

1/ Include permanent employees

2/ Employees residing w/in the basin area

3/ Local hired only

Submitted by:

(Sgd.) RAMON M. BAUTISTA
Project Manager

pure/

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

LIST OF PERSONNEL
As of April 1981

| Name | Position | Qualification |
|---|---|---|
| 1. Ramon Bautista | Project Manager | Civil Engineer |
| 2. Remegio Espada | Adm. Officer | Experienced |
| | **Driver** | |
| 1. Roden Jayco | Service driver | Experienced |

**********

# BICOL RIVER B
(R

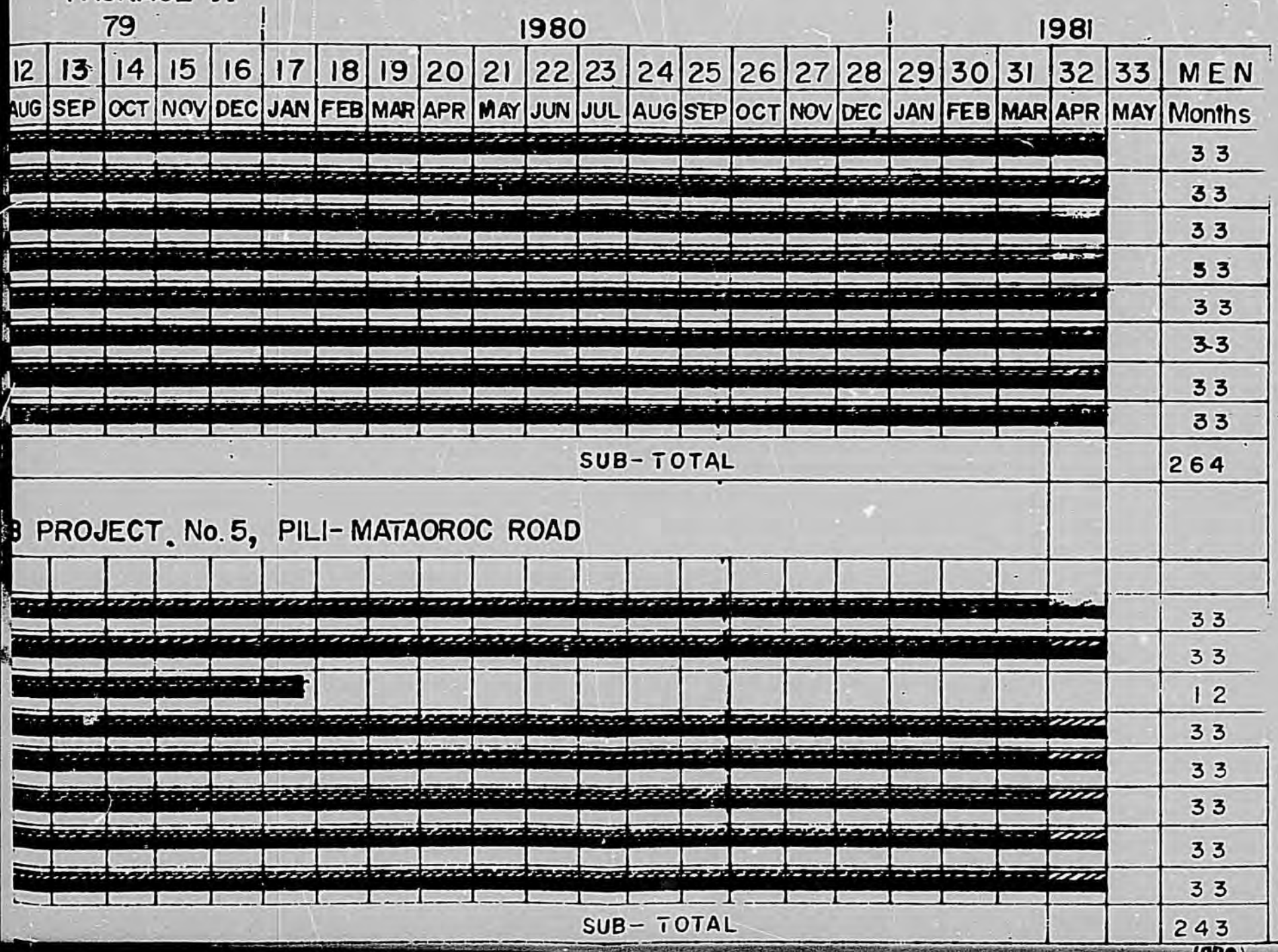
## MANPOWER OF CONSULTA

| | | 1978 | | | | | | | | | 19 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| | | AUG. | SEP. | OCT. | NOV. | DEC. | JAN | FEB | MAR | APR. | MAY | JUN | JUL | AUG |
| A.E. BANDELARIA | DEP. PROJ. MANAGER | | | | | | | | | | | | | |
| E.C. FORTALEZA | SR. HIGHWAY ENGINEER | | | | | | | | | | | | | |
| E.F. CUISON | SR. BRIDGE ENGINEER R/E | | | | | | | | | | | | | |
| M.D. LACSAMANA | SR. LOC. ENGINEER | | | | | | | | | | | | | |
| J.A. TORRALBA | SR. MATL'S. ENGINEER R/E | | | | | | | | | | | | | |
| F.C. ROSALES | ADM. OFFICER | | | | | | | | | | | | | |
| LYDIA P. JOSE | CLERK/TYPIST | | | | | | | | | | | | | |
| T.S. SABABAN | JANITOR/MESSENGER | | | | | | | | | | | | | |

SUB

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| E.F. CUISON | SR. HIGHWAY ENGINEER R/E | | | | | | | | | | | | | |
| M.B. DELFIN | MATERIAL ENGINEER | | | | | | | | | | | | | |
| DANILO V. FILIO | ENGINEER INSP. (HWY) | | | | | | | | | | | | | |
| E.L. REYES | ENGINEER INSP. (BR.) | | | | | | | | | | | | | |
| AMADO P. ESPAÑO | SURVEYOR-DRAFTSMAN | | | | | | | | | | | | | |
| F.V. YBAROLA | LABORATORY TECH'N. | | | | | | | | | | | | | |
| P.V. ALVAREZ | CLERK - TYPIST | | | | | | | | | | | | | |
| LORNA I. VILLAREY | JANITOR- MESSENGER | | | | | | | | | | | | | |
| S.B. JEREMIAS | LABORER | | | | | | | | | | | | | |

# BASIN DEVELOPMENT PROJECT
## (ROAD COMPONENTS)
### TANTS STAFF FOR CONSTRUCTION SUPERVISION
PACKAGE II



Bicol River Basin Development Project

Secondary and Feeder Roads

PACKAGE II

PALESTINA-SAN ANTONIO-MINALABAC PROJECT

Sub-Project No. 6

Monthly Construction Report

Prepared by:

VICENTE B. BANO
Resident Engineer

Submitted by:

AMADO E. BANDELARIA
Deputy Project Manager

Report No. 18

PALESTINA-SAN ANTONIO-MINALABAC
Sub-Project No. 6

1. GENERAL

Palestina-San Antonio-Minalabac (Secondary Road) Sta. 0 + 000 to Sta. 8 + 216.81.

Maydaso-Taririk-Barras-Malitbog (Feeder Road) Sta. 0 + 000 to Sta. 5 + 147.54.

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

This project under construction, consist of national Secondary road and one Feeder Road. The length of the national secondary road is 8.121681 kilometers and the first 4.25 kilometers of which will be paved with Double Bituminous Surface Treatment (DBST), Item 314, the rest being gravel base surface Item 106, together with the feeder road which has length pf 5.14754 kilometers.

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

The secondary and feeder road 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 seven (7) spans over Taririk creek and another timber trestle of three (3) spans over Baras creek.

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

Farm produce beyond Maydaso were transported manually and the farmers were obligated 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 Palestina-San Antonio-Minalabac road project, sub-project no. 6 will make a dream become reality.

2. PROGRESS

The terminiation of Palestina-Minalabac Road Project has been approved by the Minister last April 9, 1981. A copy of endorsement has been given to the consultant.

Inventory Survey of the project has been finished and the quantities to be undertaken has been determined by the joint team of the contractor and consultant. The project is scheduled to be bidded thru sealed canvass on May 6, 1981.

Construction operation is expected on early June, 1981.

| | % Accomplishment to date |
|---|---|
| Palestina-Minalabac (Secondary) - - - | 28.32% |
| Maydaso-Taririk (Feeder)- - - - - - - | 1.69% |
| Total | 30.01% |

## SUMMARY OF PHYSICAL ACCOMPLISHMENT TO DATE

A. ROADS

| | SECONDARY | FEEDER |
|---|---|---|
| Subgrade | 4.900 km. | none |
| Subbase | 3.800 km. | none |
| [illegible] | none | none |
| Asphalt Surfacing | none | |

B. BRIDGES

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

C. DRAINAGE

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

LINES LAID AS OF MARCH 25, 1971

| | LOCATIONS | ITEM 413-2 | 413-3 |
|---|---|---|---|
| 1. | Sta 0 + 000 | - | 29 |
| 2. | Sta 0 + 120 | 12 | - |
| 3. | Sta 0 + 321.55 | 12 | - |
| 4. | Sta 0 + 567.[illegible] | 4 | - |
| 5. | Sta 0 + 864.[illegible] | 4 | - |
| 6. | Sta 1 + 269.95 | 4 | - |
| 7. | Sta 1 + 750 | 10 | - |
| 8. | Sta 2 + 071.45 | 12 | - |
| 9. | Sta 2 + 420 | 12 | - |
| 10. | Sta 2 + 74[illegible] | 12 | - |
| 11. | Sta 2 + 97[illegible] | 10 | - |
| 12. | Sta 3 + 3[illegible]4.50 | 4 | - |
| 13. | Sta 3 + 81[illegible] | 10 | - |
| 14. | Sta 4 + 622 | 12 | - |
| 15. | Sta 4 + 900 | 11 | - |
| | | 138 | 29 |

## Materials Testing and Control

Tabulated hereinbelow are the various tests performed for the project.

Palistina-San Antonio-Amalahac Road

Secondary Road

### STATUS OF TEST

| ITEM | KIND OF TEST | Prev. No. | This No. | Total | Remarks |
|---|---|---|---|---|---|
| 105 | Grading | 8 | 0 | 8 | Along right of way |
| | PL & LL | 8 | 0 | 8 | " |
| | Compaction | 8 | 0 | 8 | " |
| | Field Density | 20 | 0 | 20 | " |
| 105-4 | Grading | 14 | 0 | 14 | " |
| | PL & LL | 14 | 0 | 14 | " |
| | Compaction | 14 | 0 | 14 | " |
| | Field Density | 20 | 0 | 20 | " |
| 106 | Grading | 2 | 0 | 2 | " |
| | PL & LL | 2 | 0 | 2 | " |
| | Compaction | 2 | 0 | 2 | " |
| | Field Density | 3 | 0 | 3 | " |
| 107 | Grading | 51 | 0 | 51 | San Juan Quarry |
| | PL & LL | 51 | 0 | 51 | " |
| | Compaction | 21 | 0 | 21 | " |
| | Soil Class | 49 | 0 | 49 | " |
| | Field Density | 82 | 0 | 82 | " |

| | | | | | |
|---|---|---|---|---|---|
| 109 | Grading | 51 | 0 | 51 | San Juan Quarry |
| | PL & LL | 51 | 0 | 51 | " |
| | Compaction | 15 | | 15 | " |
| | Field Density | 4[illegible] | | 4[illegible] | " |
| 110 | Grading | 1 | 0 | 1 | " |
| | PL & LL | 1 | 0 | 1 | " |
| | Compaction | 1 | 0 | 1 | " |
| | Field Density | 1 | 0 | 1 | " |

Maydaso-Taririt-Mlithog-Karas Road
(Feeder Roads)

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

Annex "A"

PROJECT WORKS CONTRACTOR L.C

Balisting-[illegible]-Minalabac Road

Camarines Sur

LIST OF PERSONNEL

Position

| NAME | I. TECHNICAL STAFF | QUALIFICATION |
|---|---|---|
| 1. Crisencio Calalang | Project Engineer | Civil Engineer |

ADMINISTRATIVE STAFF

| | | |
|---|---|---|
| 1. Leonardo Bernardino | Project Accountant | B.S.C. |
| 2. Cyril G. Coo | Clerk/Typist | Experienced |

SURVEY [illegible]

| | | |
|---|---|---|
| 1. Pastor Aguila | Instrumentman | Experienced |
| 2. Franklin Elgar | Chairman | - do - |
| 3. Winefredo Gamban | Rodman | - do - |
| 4. Lorenzo Banaga | Survey Aide | - do - |

List of Laboratory Equipment
March 1981

| Description | Qty | Unit |
|---|---|---|
| 8 inch Brass Sieve Size 3" | 1 | ea. |
| 8 inch " | 1 | ea. |
| 8 " | 1 | ea. |
| 8 " | 1 | ea. |
| 8 " " " | 1 | ea. |
| 8 " | 1 | ea. |
| 8 " " " " | 1 | ea. |
| 8 " " " " | 1 | ea. |
| 8 " " " 4 | | ea |
| 8 " " " 10 | 1 | ea |
| 8 " " " #20 | 1 | ea |
| 8 " " " #30 | 1 | ea |
| 8 " " " #40 | 1 | ea |
| 8 " " " #50 | 1 | ea |
| 8 " " " #100 | 1 | ea |
| 8 " " " #200 | 1 | ea |
| Sample splitters, 2.5 chute width | 1 | ea |
| Heavy duty Solution Balance, 1 gm. Sen. | 1 | ea |
| Triple Beam Scale 0.1 gm. Sensitivity | 1 | set |
| Micrometer Poise Balance 0.5 gm. | 1 | set |
| Oven circulated Fan | 1 | set |
| Sand Absorption cone and tamper | 1 | ea |
| Pycnometer Top and Jar | 1 | ea |
| Volumetric Flask, 500 ml. | 1 | set |
| Liquid Limit Device with Grooving Tool | 5 | ea |
| Plastic Limit Set | 2 | sets |
| Moisture Cans, 3 ounces | 2 | sets |
| Modified Compaction Mold, 1/13.33 | 1 | doz. |
| Proctor Compaction Mold, 1/30 | 1 | set |
| Compaction Hammer, 5.5 lbs. | 1 | set |
| Compaction Hammer, 10 lbs. | 1 | set |
| SandDensity cone w/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, [illegible] | 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%.

# BICOL RIVER BASIN DEVELOPMENT

## MANPOWER SCHEDULE OF CONSULTANTS

## PACKAGE II 1979

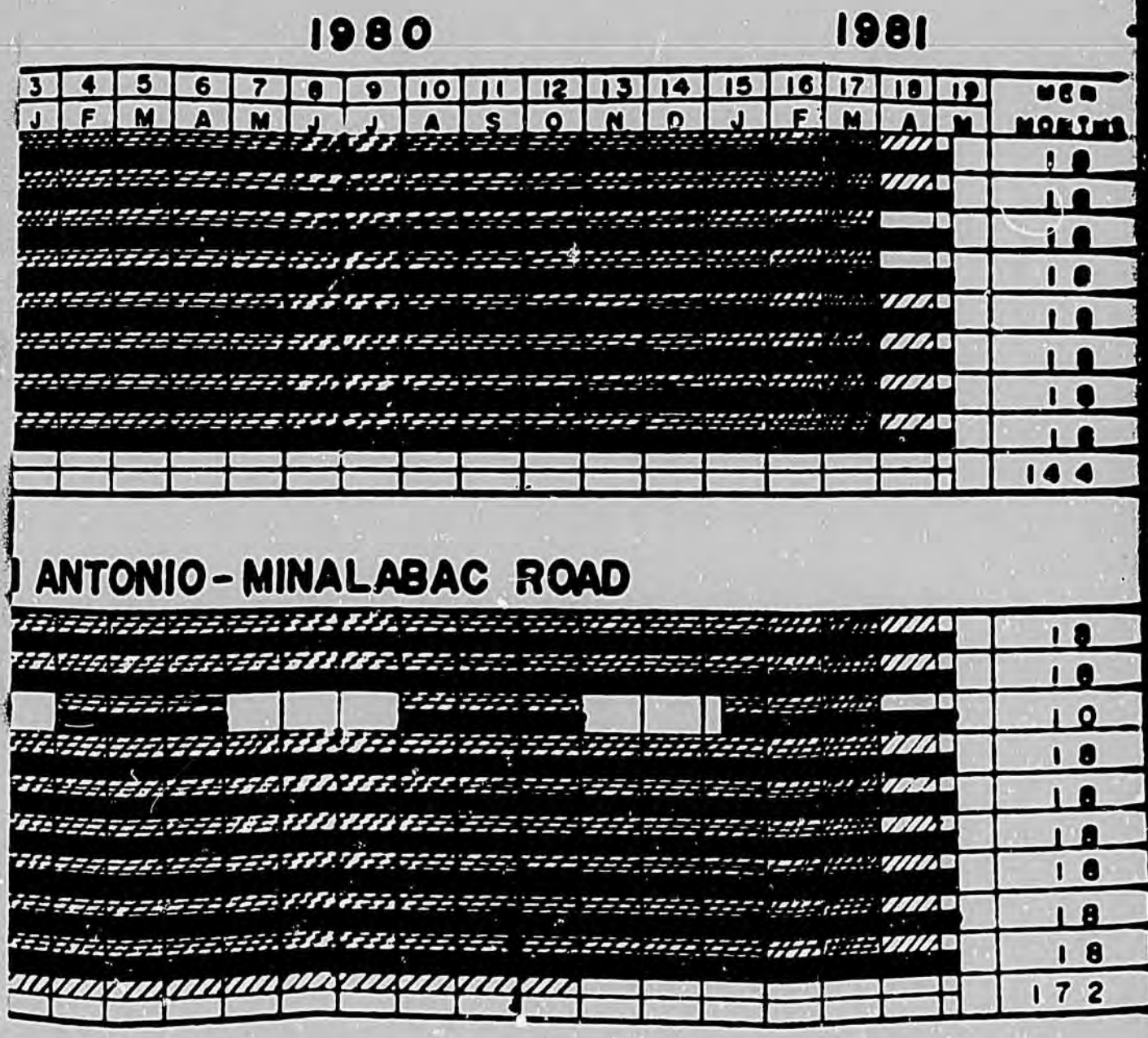
| NAMES | POSITION | 1 | 2 | 3 |
|---|---|---|---|---|
| | | N | D | J |
| A.E.BANDELARIA | DEPUTY PROJ. MGR. | | | |
| E.O.FORTALEZA | SR.HWY. ENGR./ R.E. | | | |
| A. E. CUISON | SR.BRIDGE ENGR. / R.E. | | | |
| M.D.LACSAMANA | SR.LOCATING ENGR. | | | |
| J.A.TORRALBA | SR.MAT. ENGR. / R.E. | | | |
| F.C.ROSALES | ADMINISTRATIVE OFF. | | | |
| L.P.JOSE | CLERK / TYPIST | | | |
| T.S.SABABAN | MES'R. / JANITOR | | | |
| | | | | |

## SUB-PROJECT NO. 6 PALISTINA - SAN AN

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

ENT PROJECT — ROAD COMPONENTS

NTS STAFF



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 April, 1981

| | Administrative Finance | Engineering Technical | Skilled | Unskilled |
|---|---|---|---|---|
| Manila-based 1/ | | 5 | | |
| Local-hired 2/ | 5 | 18 | | 8 |
| Sub-contractors 3/ | | | | |
| Total | 5 | 23 | | 8 |

1/ Includes permanent employees

2/ Employees residing within the Basin area

3/ Local hired only

Submitted by:

AMADO E. BANDELARIA
Deputy Project Manager

pure/

April 25, 1981

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

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

By:

AMADO E. BANDELARIA
Deputy Project Manager