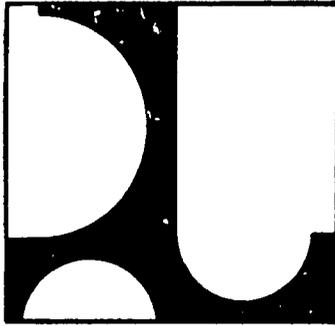


PD. AAI - 962

B.N-9

# REPUBLIK INDONESIA

DEPARTEMEN PEKERJAAN UMUM  
DIREKTORAT JENDERAL BINA MARGA



## JAGORAWI HIGHWAY STAGE II

---

MONTHLY REPORT  
SUPERVISION

---

MARCH 1981

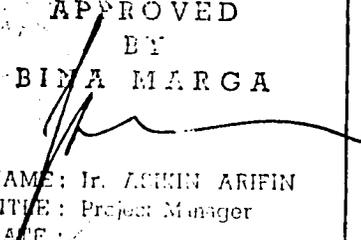
AMMANN & WHITNEY-TRANS ASIA ENGINEERING ASSOCIATES INC.  
A JOINT VENTURE

CONSULTING ENGINEERING

REPORT NO. 83

JAGORAWI HIGHWAY PROJECT  
CONSULTING SUPERVISION SERVICES

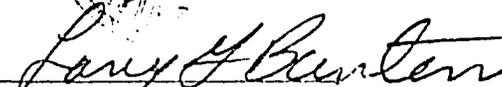
APPROVED  
BY  
BINA MARGA



NAME: Ir. ASWIN ARIFIN  
TITLE: Project Manager  
DATE:

SUBMITTED BY :



  
LARRY G. BUNTEN  
Engineer in Charge

For the Month of MARCH, 1981

PREPARED BY :

THE JOINT VENTURE FIRM OF  
AMMANN & WHITNEY/TRANS-ASIA  
ENGINEERING ASSOCIATES, INC.  
P.O. BOX 44, B O G O R ,  
I N D O N E S I A

JAGORAWI HIGHWAY  
STAGE II  
SITE MAP  
SCALE 1:50.000



20+

STA.18 + 114.092

EXISTING JAGORAWI  
HIGHWAY

GADOG SPUR CONNECTION  
STA.2 + 890.000 TO STA.5 + 317.369

CILIWUNG RIVER

BOGOR

CISADANE RIVER

CIAWI

GADOG

JAGORAWI HIGHWAY STAGE II  
STA.11 + 075.000 TO STA.16 + 872.500

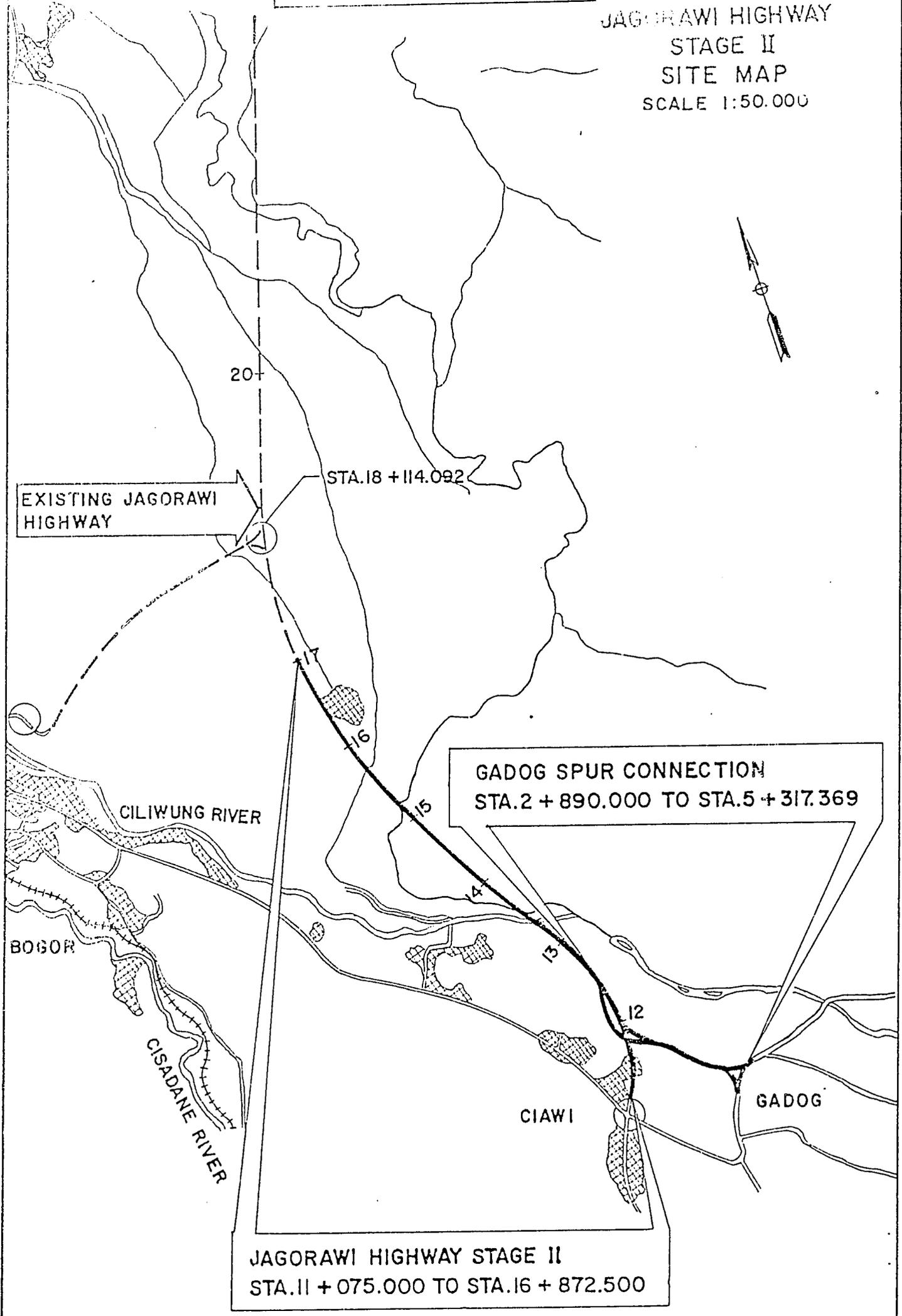


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SECTION I . . . . NARRATIVE SUMMARYI. 1. . . . STAGE II CONSTRUCTION

Bina Marga reports that objections raised by Sekneg have been satisfactorily answered by Bina Marga and written approval from Sekneg (after minor contract cost reductions) is expected soon.

Final adjustments to the draft construction contract have been negotiated with ICCI and negotiations of an equipment rental agreement with rent deducted from monthly invoices is underway.

ICCI began clearing and grubbing work again starting on the Ciawi mainline section on March 29th.

The Engineer is evaluating reports and preparing recommendations with assistance from the Joint Venture's home office in New York, on use of Butas rock asphalt.

US/AID has stated that they will request extension of the Dollar letter of commitment provided the contract has been signed, the Contractor begins mobilization and financing for the Contract and Rupiah financing for continuation of the Engineer's services are provided.

I. 2. . . . STAGE I MAINTENANCE

Jasa Marga reports that the Ciawi Section will be opened to 2-way traffic about July. The Engineer is assisting by compiling previous sign and striping plans for Jasa Marga's use.

New samples of emulsion from P.T. Pluit Bataco Raya were submitted to the Bandung Lab for testing for use as seal coat.

The draft final report for the original contract has been completed and will be submitted to Bina Marga in April.

II. 1. . . . . CONTRACT APPROVAL

Finally, some progress to report. The Engineer has been informally advised that Bina Marga has responded to Sekneg objections to the draft Contract and except for a few minor changes, the way seems clear for Sekneg's subsequent approval.

II. 2. . . . . FUNDING

Mr. George Gross, Principal of Ammann & Whitney was on site for a portion of the month. Mr. Gross met with US/AID and Bina Marga and obtained agreement from US/AID to extend the Dollar letter of commitment for engineering services provided the construction contract is signed, mobilization is in progress, and Rupiah funding is provided to continue engineering services when available Dollar funds are exhausted.

II. 3. . . . . TRAINEES

ICCI's representatives have advised the Engineer and Bina Marga's project staff that an agreeable trainee program can be worked out between ICCI and CDME before long. Probably, trainees will be limited to about 50 percent of the skilled work force.

II. 4. . . . . BUTAS ROCK ASPHALT

The Engineer has obtained copies of 12 Bina Marga research reports on the subject, 2 reports by Cameron McNamara, "Asbuton Development Study", inspected 2 converted asphalt mixing plant operations and visited 6 completed Butas overlay projects.

The reports have been translated and evaluated. Recommendations for improvements both technically and cost wise are needed. A report on this subject is being prepared.

The Joint Venture's home office in New York is coordinating with the CMI Company and will forward cost estimated and plant specifications for a pavement recycling AMP which may be suitable for use with Butas. The plant cost and technical data will be included in the Engineer's aforementioned report.

III. 1. . . . SUBMISSION/APPROVALS

The Engineer's Dollar Invoices No. 69 and 70 for January and February were approved by Bina Marga.

Rupiah Invoices No. 82 and No. 83 were also approved by Bina Marga.

The Engineer prepared suggested drafts of the "Notice of Award" and "Notice to Proceed" and submitted to Bina Marga.

III. 2. . . . DECISIONS

The Engineer was informally advised that Sekneg has agreed to approved the draft construction contract with only minor revisions requested. A formal approval letter is pending.

Jasa Marga advised that the Ciawi Section of Jagorawi would be converted to 2-way traffic by about July.

III. 3. . . . MAJOR CONFERENCES

- 1) Mr. George Gross, Principal of Ammann & Whitney met with Mr. Moelia Aida, Director of Construction on March 14th, 16th and 23rd. Purpose of the meetings was to implement construction contract signing and to obtain US/AID's extension of the Dollar letter of commitment for Engineering Services. Mr. Gross also meet with US/AID representatives on March 12th and 29th for discussions of these same subjects.
- 2) The monthly maintenance meeting was held on March 19th. Jasa Marga advised of the decision to convert the Ciawi Section to 2-way traffic as already mentioned.
- 3) A project level meeting was held with ICCI and Bina Marga on March 29th. Purpose of this meeting was to finalize revisions to the draft construction contract and to prepare a draft equipment rental agreement. Minutes of this meeting

SECTION III . . . . ADMINISTRATION

III. 3. . . . . MAJOR CONFERENCES (Cont'd)

have been forwarded to Bina Marga with a copy to ICCI.

III. 4. . . . . OFFICIAL VISITORS

Mr. Koski of US/AID continued weekly visits to the Project.

III. 5. . . . . FINANCIAL OVERRUNS/UNDERRUNS

Bina Marga has officially requested that US/AID extend the Dollar letter of commitment for engineering services. AID will require that, 1) a copy of the signed construction contract be submitted to them, 2) that mobilization is in progress, 3) financing of the construction contract is provided and 4) Bina Marga agrees to extend the Engineer's services through completion of the contract.

The above requirements were made known in various meetings between Mr. Gross, US/AID and Bina Marga.

The present Dollar letter of commitment will expire on April 30, 1981.

Bina Marga is further advised that because of delays in implementing the contract, approved Dollar and Rupiah funding for engineering services will be exhausted about August, 1982.

IV. 1. . . . SURVEYS

The survey crew mainly performed topo and other survey work for a frontage road connection to the new Bina Marga office site at Gadog Connection. Ramp 6 at Gadog was staked and referenced. With ICCI's resumption of clearing and grubbing work on March 29th, the survey crew is continuing preconstruction cross sections jointly with ICCI on the Ciawi mainline.

The elevations of the borings taken at the Cililitan Overbridge was also taken by the survey crew.

IV. 2. . . . LABORATORY

The Lab crew obtained hand auger borings at Station 3+900± in Gadog and Station 15+800 to Sta. 16+000 on the Ciawi Section to determine if settlement might occur at these two locations.

A high water table was found at Gadog and perched water was encountered near Station 15+900. An underdrain and settlement monitoring plan is being prepared for each location.

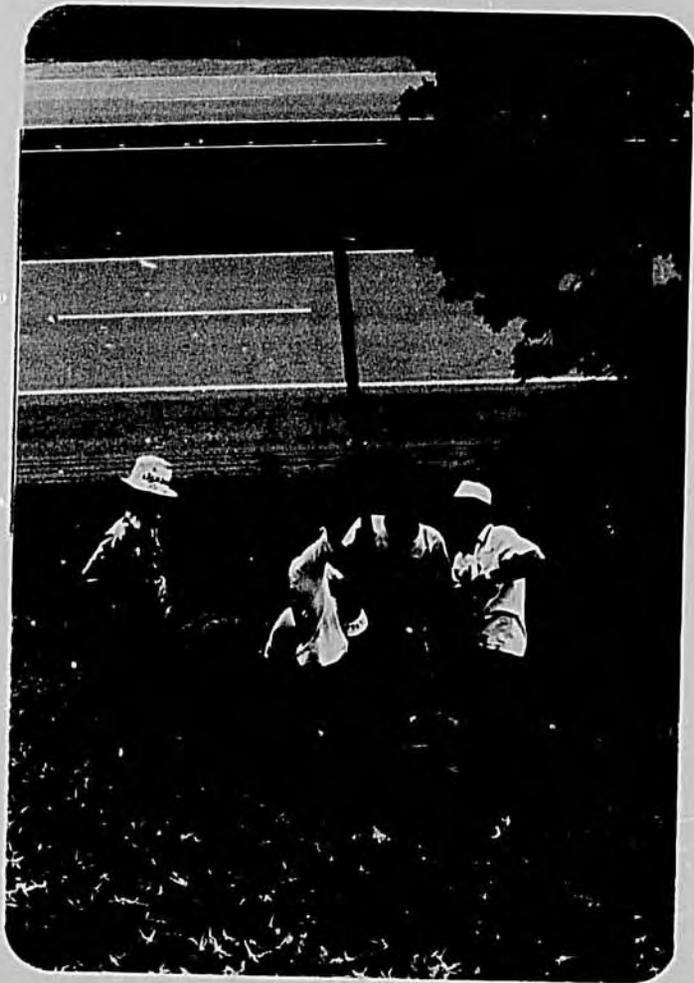
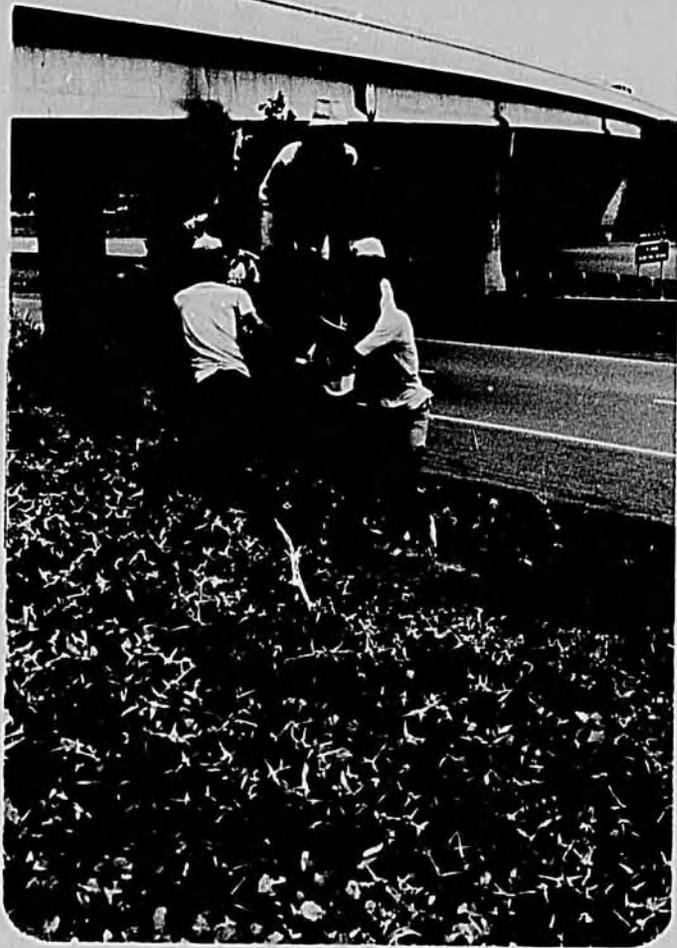
Three borings were taken by the laboratory crew at the Cililitan Overbridge Station 57+580 to determine the moisture content of the sliding earthcone of the Jakarta abutment.

IV. 3. . . . STRUCTURES

Inspection of structures including major culverts was completed at the Taman Mini Toll Plaza. The earthcone of the Jakarta abutment of the Cililitan Overbridge was specially investigated to determine the restoration method of the sliding earth. A report is being prepared for Jasa Marga summarizing the results of the inspection.

Towards the end of month ICCI started to make some preparations for structural work also and submitted some more sand samples for testing. As a result of discussions with the Contractor it was agreed that ICCI would go ahead with the pile restoration program at Sanja.

6



Bridge Sta. 57+580  
Boring abutment earthcone.

IV. 4. . . . PAVEMENT

The Engineer has translated reports on Butas received from Bina Marga and is preparing an evaluation and recommendation report. The Joint Venture's home office in New York has contacted the the CMI company requesting cost and technical data on a recycling "Roto-cycler" type AMP that might be adapted for use with Butas.

IV. 5. . . . QUANTITIES & DESIGN

Our staff assisted Jasa Marga by researching and complying old sign and striping plans for 2-way traffic operation on the Ci-awi Section.

Plans for a drive and frontage road for the new Bina Marga office area at Gadog Connection has been completed.

It has been decided that Bina Marga will furnish ICCI with 830 lm minimum of H-piles remaining from the first contract. Recondition of this H-piles will be covered by CCO No. 6.

Bina Marga also requires that rent for Government-furnished equipment be deducted from ICCI's monthly invoices. The rental agreement will be covered by Amendment No. 1.

The following is a status of draft contract change orders and amendments pending :

<u>NO.</u>	<u>DESCRIPTION</u>	<u>R E M A R K S</u>
CCO No. 1	Revise cut slopes to 2 : 1 and correct quantities of clearing and grubbing.	ICCI agrees with draft CCO.
CCO No. 2	Revise Engineer's vehicles.	ICCI now requests a price increase for this change.
CCO No. 3	3-edge bearing test machine.	Engineer recommends that ICCI's cost proposal be accepted.
CCO No. 4	Increase density requirements for Aggregate Base Course.	-----
CCO No. 5	Civil Works for the Engineer's Compound.	Includes an overlay of existing access roads and driveways.
CCO No. 6	Restoration of H-piles.	Extra work at force account.
Amendment No. 1	Equipment rental agreement.	Being negotiated.

SECTION V . . . . CONSTRUCTION PROGRESS

V. 1. . . . . SCHEDULE

The CPM and bar chart submitted by ICCI have never been approved by the Engineer or Bina Marga. In a meeting of March 29th, ICCI agreed to revise their schedule and will resubmit within 30 days after signing of the Contract. The Engineer agreed to assist ICCI with schedule preparation if requested.

V. 2. . . . . RAINFALL

Although rain occurred mainly in the afternoons, the total rainfall was very high this month amounting to 955 mm.

RAINFALL DURING MARCH

	March	Average for Project Location
No rain days	26	21.6
Maximum amount of rainfall during one day	146 mm	----
Total amount of rainfall during the month	955 mm	459.8

V. 3. . . . . PROGRESS

ICCI resumed clearing and grubbing work on the Ciawi mainline beginning March 29th.

VI. 1. . . . EQUIPMENT

ICCI resumed clearing and grubbing work on March 29th. Some equipment was handed over to ICCI for this work. ICCI did not make a formal request through the Engineer for the equipment and Bina Marga has not informed the Engineer of the equipment officially returned to ICCI for use on the Project.

Except for the van and jeep mobilized by ICCI, the following equipment has been mobilized by Bina Marga or Pusbinal for the Jagorawi Project and is currently at the site, at Sanja or at Sentul Quarry.

EQUIPMENT ON SITE

Description	Make/ Model/ Type	Owner	Public- Works Register No.	Serial No.	Arrived	From Location
Jeep	DAIHATSU	ICCI	B-1960-VG	-----	Oct. 1, '80	-----
Hi-Ace	TOYOTA	ICCI	B-7075-EP	-----	Oct. 1, '80	-----
Back Hoe Ex- cavator	POCLAIN	Pusbinal	CR/V-202	-----	Sep. 16, '80 (Returned Nov. 7, '80)	Narogong
Motor Grader	KOMATSU GD 600 RI	Bina Marga	AE/010/007	600R-10156	Sep. 29, '80	Cikampek
Motor Grader	KOMATSU GD 600 RI	Bina Marga	AE/010/008	600R-10152	Sep. 30, '80	Cikampek
Motor Grader	KOMATSU GD 600 RI	Bina Marga	AE/010/006	600R-10155	Sep. 30, '80	Cikampek
Dump Truck	ISUZU	Bina Marga	F-202-XB	1682949	Sep. 30, '80	Cikampek
Dump Truck	TXD 40	Bina Marga	F-203-XB	1682928	Sep. 30, '80	Cikampek
Dump Truck	TXD 40	Bina Marga	F-204-XB	1682814	Sep. 30, '80	Cikampek
Dump Truck	TXD 40	Bina Marga	F-205-XB	1682954	Sep. 30, '80	Cikampek
Drag Line	Linkbelt LS78	Bina Marga	28/281/001	LSS787911	Oct. 6, '80	Surabaya
Dozer Shovel	Halla FA	Bina Marga	AE/051/005	17931	Oct. 6, '80	Cikampek
Wheel Crane	American	Bina Marga	AE/062/002	05-075-0014	Oct. 6, '80	Cikampek

## SECTION VI ..... CONTRACTOR

(10)

VI. 1. .... EQUIPMENT (Cont'd)EQUIPMENT ON SITE  
(Cont'd)

Description	Make/ Model/ Type	Owner	Public Works Register No.	Serial No.	Arrived	From Location
Wheel Loader	Halla 605B	Bina Marga	AE/052/080	47L-06737	Oct. 7, '80	Surabaya
Wheel Loader	Halla 605B	Bina Marga	AE/052/078	47L-06693	Oct. 7, '80	Surabaya
Wheel Loader	Halla 605B	Bina Marga	AE/052/079	47L-06697	Oct. 7, '80	Surabaya
Bull Dozer	KOMATSU 605B	Bina Marga	AE/001/011	47L-06697	Oct. 7, '80	Surabaya
Crawler Crane	P & H 550	Bina Marga	AP/281/003	E-40861	Oct. 10, '80	Surabaya
C r u s h e r	Kongwan WPR30	Pusbinal	AE/032/001	DB 2416	Oct. 7, '80	Cikampek
C r u s h e r	Kongwan WPR30	Pusbinal	AE/032/002	DB 2416	Oct. 7, '80	Cikampek
Gen Set 111KVA	MAN	Bina Marga	AE/321/111	-----	Nov. 7, '80	Cikampek
Gen Set 111KVA	MAN	Bina Marga	AE/321/112	-----	Nov. 7, '80	Cikampek
Panel Box Gen Set Stone Crusher	-----	Bina Marga	-----	-----	Nov. 21, '80	Surabaya
Backhoe Exca- vator	INTERNA- TIONAL	Bina Marga	HEY/011/P45	-----	Nov. 7, '80	Bekasi
Crawler Crane	P & H 550	Bina Marga	AM/231/001	40864	Nov. 19, '80	Palembang
Dump Truck	TXD40	Bina Marga	AE/212/131	1683065	Oct. 13, '80	Cikampek
Dump Truck	TXD40	Bina Marga	AE/212/125	1682818	Oct. 13, '80	Cikampek
Dump Truck	TXD40	Bina Marga	AE/212/128	1682920	Oct. 13, '80	Cikampek
Dump Truck	TXD40	Bina Marga	AE/212/132	1683066	Oct. 13, '80	Cikampek
Dump Truck	TXD40	Bina Marga	AE/212/138	1682883	Oct. 13, '80	Cikampek
Dump Truck	TXD40	Bina Marga	AE/212/006	1681225	Oct. 13, '80	Cikampek
Dump Truck	TXD40	Bina Marga	AE/212/025	1681220	Oct. 13, '80	Cikampek

(11)

1. . . . EQUIPMENT (Cont'd)EQUIPMENT ON SITE  
(Cont'd)

Description	Make/ Model/ Type	Owner	Public Works Register No.	Serial No.	Arrived	From Location
Dump Truck	TXD40	Bina Marga	AE/212/034	1681275	Oct. 13, '80	Cikampek
Dump Truck	TXD40	Bina Marga	AE/212/046	1681210	Oct. 13, '80	Cikampek
Dump Truck	TXD40	Bina Marga	AE/212/098	1682926	Nov. 2, '80	Cikampek
Dump Truck	TXD40	Bina Marga	AE/212/117	1682953	Nov. 2, '80	Cikampek
Dump Truck	TXD40	Bina Marga	AE/212/133	1682930	Nov. 2, '80	Cikampek
Dump Truck	TXD40	Bina Marga	AE/212/111	1682907	Nov. 2, '80	Cikampek
Dump Truck	TXD40	Bina Marga	AE/212/106	1682819	Nov. 2, '80	Cikampek
Water Tank Truck	H I N O KL340	Bina Marga	AE/182/005	KL340-59124	Sep. 15, '80	Cikampek
Bull Dozer	Caterpil- lar D 76	Bina Marga	AE/001/017	92V1251	Oct. 10, '80	Cikampek
Loader	FIAT ALLIS FA - 605B	Bina Marga	AE/052/078	-----	Nov., 1980	-----
Loader	FIAT ALLIS FA - 605B	Bina Marga	AE/052/079	-----	Nov., 1980	-----
Truck Loader	D 57 S	Bina Marga	AE/051/005	-----	Nov., 1980	-----
Tire Roller	SAKAI SAKTI TR-01	Bina Marga	11349	-----	Nov., 1980	-----
Drag Line	LINK BELT	Pusbinal	28/281/001	-----	Nov., 1980	-----

VI. 2. . . . MANPOWER

ICCI has not submitted a manpower report since December, 1980.

VI. 3. . . . CONSTRUCTION

ICCI began clearing and grubbing on the Ciawi mainline. Work is in progress near Station 17 and Station 12. Operators are Bina Marga personnel. No trainees were employed this month.

SECTION VII . . . . STAGE I MAINTENANCE & FINAL REPORTVII. 1. . . . . MAINTENANCE

A new sample (2 barrels) of emulsion from P.T. Pluit Bataco Raya were provided. Test samples were submitted to the Bandung Lab for testing. Both samples were cationic emulsion. If the test samples meet specifications, Jasa Marga plans to proceed with new trial test seal coat sections.

Mr. Boros, Senior Bridge Engineer is continuing maintenance inspections. Problem areas will be reported directly to Jasa Marga.

VII. 2. . . . . FINAL REPORT

The draft final report for the initial first stage construction has been completed and is being printed and bound.

SECTION VIII . . . . PERSONNEL

(13)

VIII. 1. . . . ENGINEER

Mr. George Gross, Principal of Ammann and Whitney was on site March 11th thru 24th.

The following Expatriate manmonth status includes manmonth approvals authorized thru Amendment No. 8. The estimated time required for completion is thru Stage II Supervision. Because of delays by ICCI in mobilizing, a completion date of July 1, 1983 has been assumed.

EXPATRIATE MAN-MONTH STATUS  
(Through Statement No. 70)

Position	1 Approved Through Feb., 1981	2 Additional Through Mar., 1981	3 Total Thru Mar., 1981 (1 + 2)	4 Estimated to Completion	5 Author'd MM	6 Balance (5-3-4)
PRINCIPAL	5.0	0.50	5.50	1.50	7.00	0
SPECIALIST	10.33	0	10.33	2.67	13.00	0
ENGR. IN CHARGE	85.32	1	86.32	28.00	102.50	(-)11.82
SEN. MAINT. ENG.	7.97	0	7.97	0	10.00	+ 2.03
SEN. BRIDGE ENG.	49.62	1	50.62	21.00	64.00	(-) 7.62
SEN. CONSTR./ PAV'T ENGINEER	0	0	0	15.00	15.00	0
SEN. H-WAY ENG.	0	0	0	15.00	15.00	0
OTHERS	362.84	0	362.84	0	363.00	+ 0.16
	521.08	2.50	523.58	83.17	589.50	(-)17.25

Note : If Bina Marga implements use of Rock Asphalt on Jagorawi, a Pavement Specialist will be required.

VIII. 2. . . . INDONESIAN STAFF

Bina Marga temporarily withdrew the following Counterparts on March 10th for other duties :

- Mr. Gono, Counterpart Materials Engineer.
- Mr. Hudaya, Counterpart Const./Paving Engineer.
- Mr. Saksono, Counterpart Deputy Resident Engr., Quantities.

VIII. 2. . . . INDONESIAN STAFF (Cont'd)

Driver Uken was released and has been replaced by Udin.

Local staffing during March follows :

BINA MARGA COUNTERPARTS

- Counterpart Sen. Construction/  
Pavement Engineer.
- Counterpart Sen. Materials  
Engineer.
- Counterpart Deputy Resident  
Engineer (Quantities).
- Counterpart Sen. Bridge Engi-  
neer.

FIELD PERSONNEL

1. Mr. Atang Suryana Party Chief (Archicons),  
November 24, 1980.
2. Mr. Jenal Chainman,  
September 8, 1980.
3. Mr. Sarji Sarjono Instrumentman,  
September 8, 1980.
4. Mr. Ato Toha R o d m a n,  
September 8, 1980.
5. Mr. Susilo Budi Lab Aide,  
September 18, 1980.
6. Mr. Agus Sujalmaji Materials Aide,  
October 1, 1980.
7. Mr. Saman Lab Aide,  
October 1, 1980.
8. Mr. Adang Jauhari Lab Technician (Archicons),  
October 6, 1980.
9. Mr. Siswoyo Lab Technician (Archicons),  
October 4, 1980.
10. Mr. Joko Purnomo Sen. Materials Inspector,  
(Archicons),  
July 1, 1980.

SECTION VIII .... PERSONNEL

(15)

VIII. 2. .... INDONESIAN STAFF (Cont'd)

OFFICE TECHNICAL PERSONNEL

11. Mr. Achmad Chudhori      Office Engineer (Archicons),  
September 2, 1980.
12. Mr. Parmono              Draftsman (Archicons),  
October 2, 1980.
13. Mr. Johnny Manoch      Highway Technician (Archicons),  
October 6, 1980.

ADMINISTRATIVE PERSONNEL

14. Mr. Sukardi Wahyudi      Administrative Manager,  
July 1, 1980.
15. Mr. John M. Golluwola      Secretary,  
July 1, 1980.
16. Mrs. Onny Pratiwi        Clerk/Typist,  
July 1, 1980.
17. Mrs. Herny Widodo        Bookkeeper,  
July 1, 1980.
18. Mr. Suryoseputro         Accountant,  
July 1, 1980.
19. Mr. Irkin                 Mechanic,  
July 1, 1980.
20. Mr. Ujang bin Tarwi      Office Janitor,  
July 1, 1980.
21. Mr. Enan Setiana         Chief Security Guard,  
October 1, 1980.
22. Mr. Lily Sulaeman         Security Guard,  
July 1, 1980.
23. Mr. Sa'i Hidayat         Security Guard,  
October 1, 1980.
24. Mr. Ismail                Security Guard,  
July 1, 1980.
25. Mr. Kodrat Muhtadi      Translator (Archicons)  
October 1, 1980.
26. Mr. Sanan                 Gardener,  
October 13, 1980.

SECTION VIII .... PERSONNELVIII. 2. .... INDONESIAN STAFF (Cont'd)ADMINISTRATIVE PERSONNEL (Cont'd)

27. Mr. Udin Marudin	Driver, March 9, 1981.
28. Mr. Egi Djuaedi	Driver, November 12, 1980.
29. Mr. Abas Basuni	Driver, February 1, 1981.

This month .....	29
Previous .....	202
	<hr/>
T o t a l	231

Authorized Amendment No. 9  
thru March, 1981 ..... 343 m-m.

Additional Local Staff manmonths required for completion due to ICCI's lack of progress. Assumes completion on July 1, 1983 :

<u>M-M Expended</u>	<u>Additional Required to Complete</u>	<u>Total</u>	<u>Author'd M-M</u>	<u>Additional M-M Required</u>
231	1566	1796	1386	410

VEHICLES

Vehicle months expended thru March, 1981 .... 40  
Author'd vehicle months thru March, 1981 .... 90

SECTION IX

A P P E N D I X

/

SECTION IX . . . . APPENDIX

IX. 1. . . . INCOMING CORRESPONDENCE

	<u>FROM</u>	<u>SUBJECT</u>	<u>DATE</u>
1.	ICCI	A Revised Equipment List.	Feb. 28, 1981
2.	ICCI	Your Revision Quantity of Vehicles.	Feb. 28, 1981
3.	Bina Marga	Temporary Counterpart's Withdrawal.	Mar. 9, 1981
4.	Bina Marga	Power Decrease.	Mar. 9, 1981
5.	Bina Marga	Jagorawi Highway Project (Loan 497-H-03101) Extension of AID Letter of Commitment 497-H-03101 for AWTAE (A Joint Venture).	Mar. 11, 1981
6.	Bina Marga	Monthly Certificate for March, 1981.	Mar. 13, 1981
7.	Bina Marga	1. Transmittal of the Approved Engineer's Rupiah Invoice No. 83/1981. 2. The SPP No. 19/JR-SPP/III/81. 3. Engineer's Dollar Invoice No. 69/1981.	Mar. 14, 1981
8.	ICCI	Information.	Mar. 13, 1981
9.	US/AID	Jagorawi Highway Project AID Loan 497-H-031 Extension of AID Letter of Commitment No. 497-H-03101 for Ammann & Whitney/Trans-Asia Engineering Associates, Inc. (A Joint Venture).	Mar. 18, 1981
10.	Bina Marga	1. Transmittal of the Approved Engineer's Rupiah Invoice No. 84/1981. The SPP No. 20/JR-SPP/III/81. 2. Engineer's Rupiah Invoice No. 85/1981.	Mar. 24, 1981
11.	Bina Marga	Transmittal of the Engineer's Dollar Invoice No. 70/1981.	Mar. 23, 1981
12.	ICCI	Concrete Sand Ex Ciapus, Bogor.	Mar. 30, 1981
13.	ICCI	Start of Work.	Mar. 30, 1981

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SECTION IX . . . . APPENDIX

IX. 2. . . . . OUTGOING CORRESPONDENCE

	<u>TO</u>	<u>SUBJECT</u>	<u>DATE</u>
1.	Bina Marga	Transmittal of Engineer's Dollar Invoice No. 70 for February.	Mar. 2, 1981
2.	Bina Marga	Report on the Bridge Engineer's Bandung Visit.	Mar. 4, 1981
3.	Mr. Uken	Notice of Termination.	Mar. 6, 1981
4.	JV - NYC	Weekly Administration Report No. 314.	Mar. 7, 1981
5.	Bina Marga	Testing of Emulsified Asphalt for Jasa Marga.	Mar. 9, 1981
6.	All Counter- parts	Temporary Return to Bina Marga.	Mar. 10, 1981
7.	Bina Marga	Submittal of Engineer's Rupiah Invoice No. 84 for February, 1981.	Mar. 10, 1981
8.	JV - NYC	Weekly Administration Report No. 315.	Mar. 14, 1981
9.	JV - NYC	Transmittal of Engineer's Approved Dollar Invoice No. 69.	Mar. 16, 1981
10.	Bina Marga	Resubmittal of Engineer's Rupiah Invoice No. 84 for February, 1981.	Mar. 19, 1981
11.	JV - NYC	Weekly Administration Report No. 316.	Mar. 21, 1981
12.	JV - NYC	Transmittal of Approved Dollar Invoice No. 70 for February, Jagorawi Project.	Mar. 24, 1981
13.	JV - NYC	Transmittal of Rupiah Accounting Reports for Jagorawi -- Month of February.	Mar. 24, 1981
14.	ICCI	Shop Plans.	Mar. 25, 1981
15.	ICCI	Resumption of Clearing and Grubbing and Other Work Activities.	Mar. 25, 1981
16.	Bina Marga	Submittal of Revised Draft Construction Contract.	Mar. 26, 1981
17.	ICCI	Equipment List for Jagorawi.	Mar. 26, 1981
18.	ICCI	Auxiliary Parts for Crushers.	Mar. 26, 1981

SECTION IX . . . . APPENDIXIX. 2. . . . . OUTGOING CORRESPONDENCE (Cont'd)

	<u>TO</u>	<u>SUBJECT</u>	<u>DATE</u>
19.	Bina Marga	Draft Notice of Award and Draft Notice to Proceed.	Mar. 27, '81
20.	Bina Marga	Submittal of Engineer's Monthly Report No. 314.	Mar. 27, '81
21.	ICCI	Substituted Engineer's Vehicles, Contract Change Order No. 2, Pending.	Mar. 27, '81
22.	ICCI	Project Meeting.	Mar. 27, '81
23.	ICCI	Contractor's Unintelligible English Language Letters.	Mar. 27, '81
24.	JV - NYC	Weekly Administration Report No. 317.	Mar. 28, '81
25.	Bina Marga	Minutes of the Project Meeting of March 29, 1981.	Mar. 31, '81
26.	Bina Marga	Return to Duty - Mr. Gono Sarpo.	Mar. 31, 1981

SECTION IX . . . . APPENDIX

IX. 3. . . . . STATUS OF DOLLAR FUNDS FOR ENGINEERING SUPERVISION OF STAGE II CONSTRUCTION

I. ENGINEER'S CONTRACT (Excluding bank charges)

A) Original Contract . . . . .	\$ 1,594,084.00
B) Amendment No. 1 . . . . .	\$ 259,169.00
C) Amendment No. 2 . . . . .	\$ 288,244.00
D) Amendment No. 3 . . . . .	\$ 824,702.00
E) Amendment No. 4 . . . . .	\$ 110,058.00
F) Amendment No. 5 . . . . .	\$ 0
G) Amendment No. 6 (Stage II Design) . . . . .	\$ 234,051.00
H) Amendment No. 7 . . . . .	\$ 79,677.00
I) Amendment No.. 8 . . . . .	<u>\$ 597,341.00</u>
TOTAL	\$ 3,987,326.00
Funds Available for Contract Services . . .	<u>\$ 3,979,538.29</u>
SHORT	(-) \$ 7,787.71

Note : The Engineer's letter of credit was increased by U.S. \$ 667,745.55 on November 14, 1980.

II. RUPIAH CONSTRUCTION CONTRACT

A contract has not been signed or approved. Bina Marga reports that the contract amount agreed to by Sekneg is Rp 6,050,000,000.