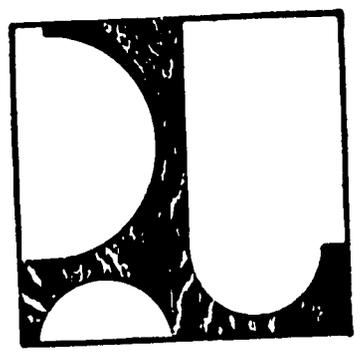


PO KAI 963
100-10

REPUBLIK INDONESIA

4/27/81

DEPARTEMEN PEKERJAAN UMUM
DIREKTORAT JENDERAL BINA MARGA



JAGORAWI HIGHWAY STAGE II

MONTHLY REPORT
SUPERVISION

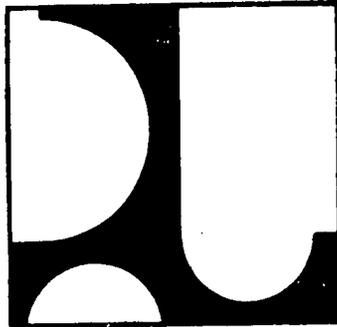
APRIL 1981

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

CONSULTING ENGINEERING

REPUBLIK INDONESIA

**DEPARTEMEN PEKERJAAN UMUM
DIREKTORAT JENDERAL BINA MARGA**



JAGORAWI HIGHWAY STAGE II

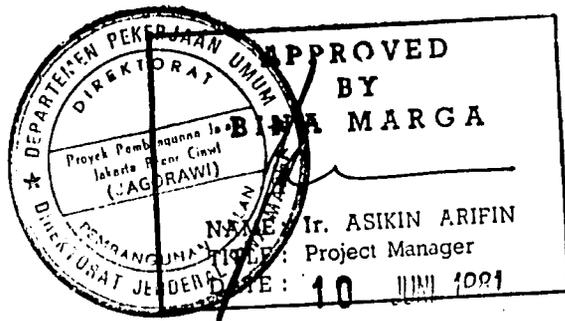
**MONTHLY REPORT
SUPERVISION**

APRIL 1981

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

CONSULTING ENGINEERING

JAGORAWI HIGHWAY PROJECT
CONSULTING SUPERVISION SERVICES



SUBMITTED BY :

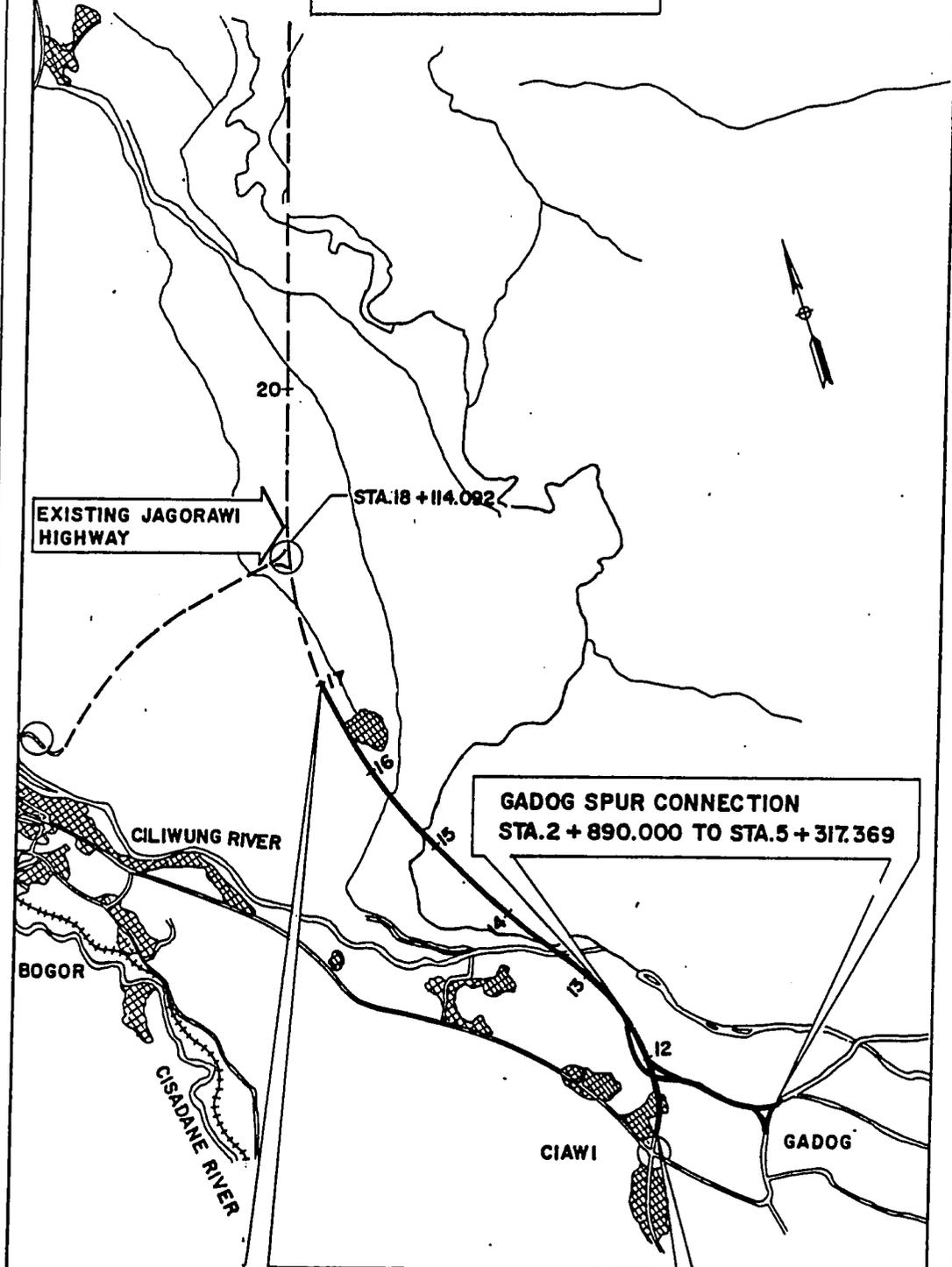
Larry G. Buntten
LARRY G. BUNTEN
Engineer in Charge

For the Month of APRIL, 1981

PREPARED BY :

The Joint Venture firm of
AMMANN & WHITNEY/TRANS-ASIA
ENGINEERING ASSOC., 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



EXISTING JAGORAWI
HIGHWAY

STA.18 + 114.092

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

The notice of contract award was issued to ICCI on April 27, 1981. The contract was signed on May 1, 1981.

ICCI progressed work as follows : clearing and grubbing from Station 12 to 17, construction of a generator house for the crushers at Sentul, and H-pile reconditioning at Sanja.

I. 2. STAGE I MAINTENANCE

The draft final report for the initial stage construction (Hyundai Construction Co., Ltd.) was submitted to Bina Marga for review.

A new sample of CSS-1 emulsion for use on test sections of seal coat failed the cement mixing test. This indicates that the emulsion would be unsatisfactory for slurry seal work.

The Engineer has assisted Jasa Marga by preparing sketch plans for improvement of the Baranangsiang signals, correction of a slope wash out at Ramp 23, compiled old signing and striping plans for the Ciawi Section for 2-way traffic and made an evaluation of the effects of not allowing passing on the Ciawi Section under 2-way traffic. All of the above were forwarded to Jasa Marga through Bina Marga.



DEPARTEMEN PEKERJAAN UMUM
DIREKTORAT JENDERAL BINA MARGA

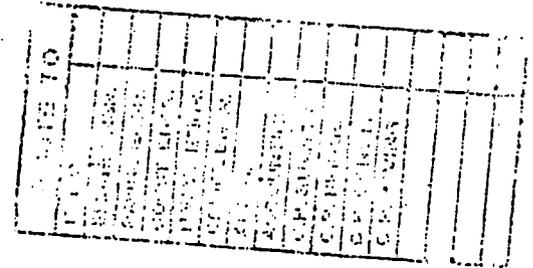
JALAN PATTIMURA NO. 20 TELP. 710989 - 775381 - 713704 - 771539 KEBAYORAN BARU, PO BOX 181 KBY.

Our ref.: 1k02-03.01

Jakarta, May 12, 1981

Messrs.
PT. INDOONESIAN CONSORTIUM OF
CONSTRUCTION INDUSTRIES (PT. ICCI)
Jaya Building, 10th fl.
Jalan M.H. Thamrin No. 12
J A K A R T A.

Attn. : Ir. Suradi Wongso Hartono
President Director ICCI.



NOTICE TO PROCEED

Construction contract No. 06/CTR/EM/DN/1981 between the Director General, Bina Marga and PT. Indonesian Consortium of Construction Industries (PT ICCI) was approved by Mr. Suryatin Sastromijoyo on May 1, 1981, and you are hereby directed to proceed with construction.

The date for counting contract time is May 1, 1981 and work is to be completed within 730 calendar days (except for time extensions as may be allowed by the Contract Special Provisions) from the date aforementioned.

You are required to begin work within 90 days of receipt of this Notice to Proceed.

An advanced payment in the amount of maximum 15 percent of the total contract amount, will be paid to you upon submittal and acceptance by Bina Marga of a covering bank guarantee from a Government owned bank for the full amount of the advance payment paid. Please submit your request for payment on an invoice form to be provided by the Engineer.

Bina Marga notes that you ostensibly began work on September 22, 1980. You may submit your first progress invoice immediately. However, we have been advised by the Engineer that the only acceptable progress payable to date is for one third of the lump sum mobilization item. Expenses incurred by Bina Marga on your behalf for equipment mobilization, equipment rental, office space, etc. will be deducted from the first progress invoice for mobilization.

Bina Marga has appointed Ammann and Whitney and Trans Asia Engineering Associates, Inc. as the Engineer for the Project. Mr. Larry G. Buntan is the Engineer's authorized representation. Ir. Asikin Arifin is Bina Marga's authorized Project Manager for Jagorawi Stage II.

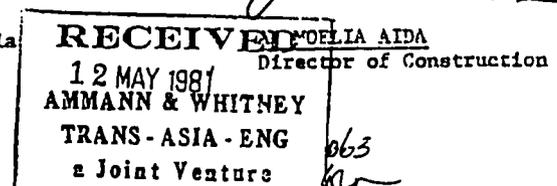
Bina Marga wishes you a successful project and good luck in your venture.

Very truly yours,

C.C.

1. Project Manager Jagorawi
2. Ammann & Whitney Trans-Asia Engineering Ass. Inc.
3. USAID Jakarta.

AMA/BDH/Sri.



SECTION II PROBLEM AREASII. . . . PROBLEM AREAS

Many problem areas have been resolved when the contract was signed. Problems still remaining include lack of policy on trainees which needs to be resolved between ICCI and CDME, schedule, and ramifications of use of rock asphalt.

The AID Dollar letter of commitment to pay for engineering services expired on April 30th. With the construction contract signed, we hope the way is now clear for US/AID and Bina Marga to extend the letter of commitment.

SECTION III ADMINISTRATION

III. 1. SUBMISSIONS/APPROVALS

The Engineer's Dollar and Rupiah Invoices for March were submitted and approved by Bina Marga.

The final draft construction contract for Jagorawi Stage II was prepared by the Engineer and submitted to Bina Marga.

The Engineer prepared and submitted a draft equipment rental amendment to Bina Marga. We understand that a separate agreement (not an amendment) will be made instead.

III. 2. DECISIONS

The Notice of Award has been issued to ICCI and the contract was signed on May 1st.

III. 3. MAJOR CONFERENCES

A meeting of ICCI, CDME, the Director of Construction, Engineer and Bina Marga project personnel was held on April 4th. Administrative problems associated with finalizing the contract and obtaining an equipment rental agreement were discussed.

The monthly maintenance meeting was held on April 23rd. Representative of Jasa Marga, Bina Marga, US/AID and the Engineer attended. Results of the laboratory tests on new emulsion samples were discussed. Jasa Marga described their plans to open the Ciawi Section to 2-way traffic. Signing and striping plans compiled by the Engineer from the original contract documents were handed to Jasa Marga and Bina Marga.

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

A project level meeting with ICCI was held on April 28th. Minutes of this meeting were prepared by the Engineer and 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

The official contract amount of Jagorawi Stage II is Rp 8,050,000,000.

The AID letter of commitment for engineering services expired on April 30th. It is hoped that US/AID and Bina Marga will expedite extension of the letter of commitment now that the construction contract has been signed. The Engineer can not collect Dollar invoices until the letter of commitment is extended.

SECTION IV ENGINEERING PROGRESSIV. 1. SURVEYS

Our survey crew has been busy completing preconstruction cross sections on mainline. They are now making preconstruction cross sections of drainage structures. Our Office Engineer has calculated hinge point elevations for ICCI to facilitate setting of slope stakes.

IV. 2. LABORATORY

Two new sources of sand from Ciapus were tested and found to be out of specifications. Mr. Gono has obtained samples of muck from Station 15+800 to 16+000. An evaluation of possible settlements indicates that 90 percent settlement is likely within 12 months of beginning of construction.

The coring machine and concrete testing machine have been repaired. Calibration of the concrete testing machine was performed by the Bandung Laboratory. However, their jack was of small capacity (only 60,000 lbs vs 200,000 lbs required) and proving rings were not available. The Engineer will make arrangements for a private lab to calibrate the concrete tester.

A small area of unsuitable material (overly wet) was found right of Station 14+300. Probing by the lab crew indicated depth of muck to be between one and one half meters deep. ICCI has been ordered to remove and replace this material.

IV. 3. STRUCTURES

Pile restoration work commenced early in the month. The beginning was very slow, work was not organized and took quite some time until basic tools and safety equipment have been provided.

After several discussions and correspondence the work started with the separation of scrap material (either damaged or too short pieces) from the rest. Afterwards the usable material was placed in groups, measured and listed.

SECTION IV ENGINEERING PROGRESSIV. 3. STRUCTURES (Cont'd)

First handling was done by hand and even rather heavy pieces were moved manually! A forklift was hired later in the month and worked right through the end of the period, thus moving and sorting of material was speeded up. Cleaning of piles was also carried out.

Generally progress was not satisfactory, though standard of work improved as work proceeded. The main problem is lack of planning and organization.

Plans for the addition and repair to the Korean workshop was also supplied to the Contractor and the work was discussed on several occasions. Again it was emphasized that sand which meets the requirements of the specifications has to be provided for concrete to assure quality control, and again there was very little or no action.

Contractor also started the construction of the generator house at Sanja which is actually outside the scope of the specifications thus officially is not supervised by the Engineer. However, it was inspected during the month and some remarks regarding construction were relayed to the Contractor.

Some preparations were also made during the month for commencement of the foundation borings in the Gadog Spur for the three major culvert. The proposed subcontractor Gamma Epsilon PT has already been approved by the Engineer.

IV. 4. PAVEMENT

Our lab crew has extracted asphalt from a sample of Butas. The mineral Butas was then sent to the Bina Marga Bandung Laboratory for testing to see if the mineral meets specifications for fine aggregate.

The Engineer has met with Mr. David Davies of Cameron McNamara, consultants to Perusahaan Aspal Negara (PAN) and discussed pro-

SECTION IV ENGINEERING PROGRESS

IV. 4. PAVEMENT (Cont'd)

blems related to use of Butas Rock Asphalt. We received a copy of Cameron McNamara's report "Asbuton Development Study" and are reviewing this report.

IV. 5. QUANTITIES & DESIGN

The quantities staff continues with the Gadog frontage road design as time permits. Shop plans for the Engineer's office extension and field inspector shack were reviewed and final agreement reached with ICCI. Sketch plans for the remodeling work and reconditioning of the scale house at Sentul were forwarded to ICCI.

Although ICCI progressed work this month, no invoice for payment was submitted.

Following is a status of contract change orders 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.	
CCO No. 3	3-edge bearing test machine.	
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.
CCO No. 7	Lab addition and remodeling Sentul Scale House.	Agreed price change order.

SECTION V PROGRESSV. 1. SCHEDULE

ICCI is revising their schedule. The Engineer prepared suggested groupings of items for use on the bar chart schedule. ICCI has adopted most (but not all) of the Engineer's suggestions.

V. 2. RAINFALL

Rain generally occurred in the late afternoon. A summary of rainfall for the month follows :

Rainfall During April

	<u>April</u>	<u>Average for Project Location</u>
Number of Rain days	17 days	17.6
Maximum amount of rainfall during one day	71 mm	....
Total amount of rainfall during the month	320.5 mm	355.6

V. 3. PROGRESS

ICCI actively pursued clearing and grubbing between Sta. 12 and 17 on mainline. Some repair work to the existing access road was accomplished. Construction of a generator house for the crushers at Sentul is underway, and the recondition of H-piles is in progress. The latter operation has shown very poor progress.

A new survey crew is making good progress with setting of slope stakes.

The Engineer is concerned that ICCI has not made sufficient preliminary planning for the work. ICCI has not submitted any of the following :

SECTION V PROGRESSV. 3. . . . PROGRESS (Cont'd)

- acceptable schedule.
- request for approval of materials suppliers (except for concrete sand. The proposed supplier were not accepted).
- organization chart
- cash flow plan.
- equipment list.
- written training plan.

SECTION VI CONTRACTORVI. 1. . . . EQUIPMENT

ICCI has made use of two (2) bulldozers, two (2) graders, one (1) backhoe and six (6) dump trucks were employed by the Contractor for clearing and grubbing work. A rental forklift was in use for the H-pile restoration work.

The following equipment has been mobilized for the Jagorawi Project and is currently at the site, at Sanja or at Sentul :

EQUIPMENT ON SITE

Description	Make/ Model/ Type	Owner	Public- Works Register No.	Serial No.	Arrived	From Location
J e e p	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
Dvmp Truck	I Z U S U	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	Halfa 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 CONTRACTORVI. 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	Bina Marga	AE/032/001	DB 2416	Oct. 7, '80	Cikampek
C r u s h e r	Kongwan WPR30	Bina Marga	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

SECTION VI CONTRACTORVI. 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	1681216	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	AF/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 TAKTI TR-01	Bina Marga	11349	-----	Nov., 1980	-----
Drag Line	LINK BELT	Bina Marga	28/281/001	-----	Nov., 1980	-----
Fork Lift		Rental			Apr., 1981	-----

VI. 2. . . . MANPOWER

ICCI still has not reported manpower. The last report was for December, 1980.

VI. 3. . . . CONSTRUCTION

Construction activities were reported under the progress section of this report.

SECTION VII STAGE I MAINTENANCEVII. STAGE I MAINTENANCE

The Engineer prepared a suggested plan to correct a slope wash out at Ramp 23 for Jasa Marga. The plan calls for installation of a drainage inlet and overside pipe drain to collect runoff from the bridge deck.

A suggested modification to the operation of the Baranangsiang traffic signals was also prepared by the Engineer. The proposal was prepared at the verbal request of Bina Marga.

The Engineer made an evaluation of the effects of opening the Ciawi Section to 2-way traffic without allowing passing. The Engineer recommended that passing should generally be allowed.

Laboratory test results of CSS-1 emulsion from PT Pluit Bataco Raya indicated that the emulsion would be very unsatisfactory for slurry seal (cement mixing test failed badly), and marginally out of specifications if used for fog seal.

The Engineer's draft final report on the initial stage construction was submitted to Bina Marga on April 18th. After the report has been agreed to by Bina Marga, US/AID and the Engineer, thirty (30) copies of the corrected final report will be submitted.

SECTION VIII PERSONNELVIII. 1. ENGINEER

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 April 30, 1983 has been assumed.

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

Position	1 Approved Through Mar., 1981	2 Additional Through Apr., 1981	3 Total Thru Apr., 1981 (1 + 2)	4 Estimated to Completion	5 Author'd MM	6 Balance (5-3-4)
PRINCIPAL	5.50	-	5.50	1.50	7.00	0
SPECIALIST	10.33	0	10.33	2.67	13.00	0
ENGR. IN CHARGE	86.32	1	87.32	25.00	102.50	(-) 9.82
SEN. MNT. ENGR.	7.97	0	7.97	0	10.00	+ 2.03
SEN. BRG. ENGR.	50.62	1	51.62	21.00	64.00	(-) 8.62
SEN. CONSTR./ PAVING ENGINEER	0	0	0	19.00	15.00	(-) 4.00
SEN. HWY. ENGR.	0	0	0	21.00	15.00	(-) 6.00
O T H E R S	362.84	0	362.84	0	363.00	+ 0.16
	532.58	2.00	525.58	90.17	589.50	(-) 26.25

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

2. INDONESIAN STAFF

Mr. Gono, Counterpart Materials Engineer returned to duty this month. Other Counterpart slots remain vacant.

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

Local staffing during March follows :

BINA MARGA COUNTERPARTS

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

FIELD PERSONNEL

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

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

- | | |
|-------------------------|---|
| 12. Mr. Achmad Chudhori | Office Engineer (Archicons),
September 2, 1980. |
| 13. Mr. Parmono | Draftsman (Archicons),
October 2, 1980. |
| 14. Mr. Johnny Manoch | Highway Technician (Archicons),
October 6, 1980. |

ADMINISTRATIVE PERSONNEL

- | | |
|---------------------------|--|
| 15. Mr. Sukardi Wahyudi | Administrative Manager,
July 1, 1980. |
| 16. Mr. John M. Golluwola | Secretary,
July 1, 1980. |
| 17. Mrs. Onny Pratiwi | Clerk/Typist,
July 1, 1980. |
| 18. Mrs. Herny Widodo | Bookkeeper,
July 1, 1980. |
| 19. Mr. Suryoseputro | Accountant,
July 1, 1980. |
| 20. Mr. Irkin | Mechanic,
July 1, 1980. |
| 21. Mr. Ujang bin Tarwi | Office Janitor,
July 1, 1980. |
| 22. Mr. Enan Setiana | Chief Security Guard,
October 1, 1980. |
| 23. Mr. Lily Sulaeman | Security Guard,
July 1, 1980. |
| 24. Mr. Sa'i Hidayat | Security Guard,
October 1, 1980. |
| 25. Mr. Ismail | Security Guard,
July 1, 1980. |
| 26. Mr. Kodrat Muhtadi | Translator (Archicons)
October 1, 1980. |
| 27. Mr. Sanan | Gardener,
October 13, 1980. |

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

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

This month	30
Previous	231

T o t a l	261
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Authorized Amendment No. 9
thru April, 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>
261	1,386	1,647	1386	261

VEHICLES

Vehicle months expended thru April, 1981 61
Author'd vehicle months thru April, 1981 105

SECTION IX

PHOTO SECTION

DESIGNABLE DOCUMENT

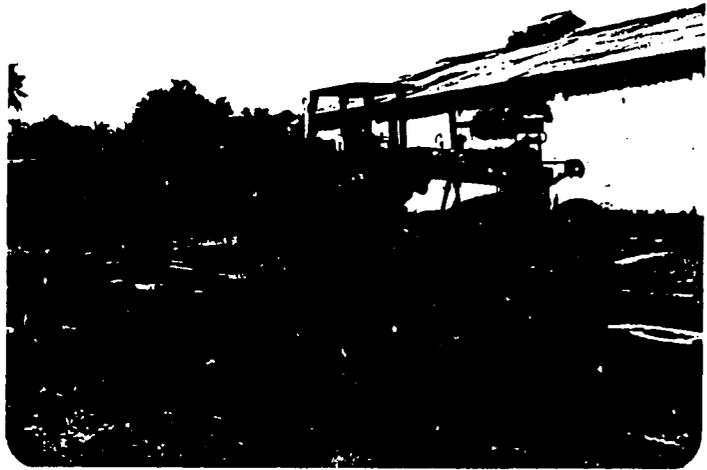


Photo 1 -- Cleaning site



Photo 2 -- Cleaning site



Photo 3 -- Separating scrap material



Photo 4 -- Separating scrap material



Photo 5 -- Separating scrap material



Photo 6 -- Manual handling and moving



Photo 7 -- Manual handling and moving



Photo 8 -- Manual handling and moving



Photo 9 -- Manual handling and moving

REST AVAILABLE DOCUMENT



Photo 10 -- Separated out good material



Photo 11 -- Sorting out good material



Pile restoration - Sanja
Photo 12 -- Forklift at work.



Pile restoration - Sanja
Photo 13 -- Forklift at work



Pile restoration - Sanja
Photo 14 -- Forklift at work



Photo 15 -- Selected material preparation for inspection

Photo 16
Measuring
selected material



Pile restoration - Sanja

Photo 17
Cleaning piles



Pile restoration - Sanja

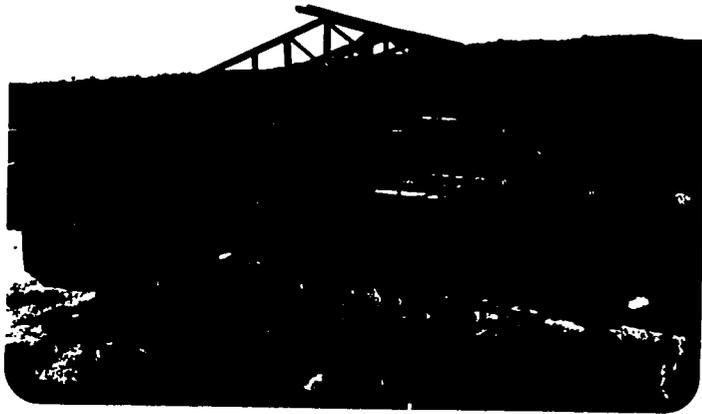
Photo 18
Cleaning piles



NOT AVAILABLE DOCUMENT



Pile restoration - Sanja
Photo 19 -- Cleaning piles



Generator House Construction Sentul
Photo 20 -- Timber frame - generator base



Generator House Construction Sentul
Photo 21 -- Timber frame - generator base

Generator House Construction,
Sentul

Photo 22

Timber frame - generator base.



Generator House Construction

Photo 23

Hand mixing-concrete



Generator House Construction,

Photo 24

Hand mixing-concrete



SECTION X

A P P E N D I X

SECTION X APPENDIX

X. 1. INCOMING CORRESPONDENCE

	<u>FROM</u>	<u>SUBJECT</u>	<u>DATE</u>
1.	ICCI	Invitation.	Mar. 31, 1981
2.	Bina Marga	Mr. Gono's Reassignment to Joint Venture.	Apr. 1, 1981
3.	ICCI	Weekly Schedule No. 11	Apr. 4, 1981
4.	Bina Marga	Transmittal of the Approved Engineer's Dollar Invoice No. 71/1981.	Apr. 18, 1981
5.	Bina Marga	Result of Asphalt Testing (sample).	Apr. 22, 1981
6.	Bina Marga	Construction Plans for Jagorawi Stage II.	Apr. 23, 1981
7.	Bina Marga	Changing-off the Items of Rental of Land & Building on site.	Apr. 24, 1981
8.	Bina Marga	Approval of Removing Existing barbed wire fence at Sta. 12+000.	Apr. 28, 1981
9.	Bina Marga	Jagorawi Highway Stage II Project - Signing of Contract.	Apr. 29, 1981

SECTION X APPENDIX

X. 2. OUTGOING CORRESPONDENCE

	<u>TO</u>	<u>SUBJECT</u>	<u>DATE</u>
1.	ICCI	Removal of Disposal of Unsuitable Materials Sta. 15+750 to 16+050.	Apr. 1, 1981
2.	ICCI	Authorized Disposal Area for Scalping.	Apr. 1, 1981
3.	Bina Marga	Submittal of Engineer's Dollar Invoice No. 71 for March.	Apr. 1, 1981
4.	Bina Marga	Minutes of the Meeting of March 31, 1981.	Apr. 2, 1981
5.	ICCI	Reconditioning Bina Marga Furnished H-piles.	Apr. 2, 1981
6.	TAE Manila	Accounting Reports.	Apr. 2, 1981
7.	ICCI	Supplemental Underdrain and Settlement Monitoring Plans.	Apr. 2, 1981
8.	ICCI	Clarification of Article 111.01 "Contractor Facilities Furnished at No Cost to the Contractor" of the Contract Special Provisions.	Apr. 3, 1981
9.	Bina Marga	Calibration of Engineer's Concrete Compression Testing Machine.	Apr. 3, 1981
10.	Mr. Gono	Soundness Test for Mineral from Butas.	Apr. 3, 1981
11.	JV-NYC	Weekly Administration Report No. 318.	Apr. 4, 1981
12.	ICCI	Test Results of Concrete Sand Samples : PD Dulang Mas - Ciap PD Pasir Mas Utama : Ciap	Apr. 4, 1981
13.	Bina Marga	Request for Testing of 11 Butas.	Apr. 6, 1981
14.	Bina Marga	Revised Draft Construction Contract.	Apr. 6, 1981

SECTION X APPENDIX

X. 2. OUTGOING CORRESPONDENCE (Cont'd)

	<u>TO</u>	<u>SUBJECT</u>	<u>DATE</u>
15.	ICCI	File Restoration Program.	Apr. 7, 1981
16.	JV-NYC	Weekly Administration Report No. 319.	Apr. 11, 1981
17.	Bina Marga	Submittal of Engineer's Rupiah Invoice No. 85A for March.	Apr. 13, 1981
18.	ICCI	Revised Progress Schedule.	Apr. 18, 1981
19.	Bina Marga	Submittal of Draft Final Report.	Apr. 18, 1981
20.	JV-NYC	Weekly Administration Report No. 320.	Apr. 18, 1981
21.	JV-NYC	Rupiah Accounting Reports for March, Jagorawi Project.	Apr. 20, 1981
22.	JV-NYC	Transmittal of Approved Dollar Invoice No. 71 for March, Jagorawi Project.	Apr. 21, 1981
23.	ICCI	Project Meeting, Saturday April 25th. 1) Draft Equipment, Rental Agreement. 2) Facilities Furnished by Bina Marga.	Apr. 21, 1981
24.	ICCI	File Restoration Workshop Repairs.	Apr. 21, 1981
25.	ICCI	Preservation of Centerline Survey Control Monuments.	Apr. 21, 1981
26.	Mr. Russo	Transmittal of Copies of Approved Rupiah Invoices No. 82, 83, and 84/85 - Jagorawi Project.	Apr. 21, 1981
27.	JV-NYC	Weekly Administration Report No. 321.	Apr. 25, 1981
28.	Bina Marga	Striping Ciawi Section for 2-way traffic.	Apr. 27, 1981

SECTION X APPENDIX

X. 2. OUTGOING CORRESPONDENCE (Cont'd)

	<u>TO</u>	<u>SUBJECT</u>	<u>DATE</u>
29.	ICCI	Unsuitable Material, Right of Sta. 14+300±	Apr. 28, 1981
30.	ICCI	Small Tools for Reconditioning H-piles.	Apr. 28, 1981
31.	ICCI	Mobilization Breakdown.	Apr. 28, 1981
32.	Bina Marga	Minutes of the Project Meeting of April 25th.	Apr. 28, 1981
33.	Citibank	Account No. 0231347 for Amwhit/TAE.	Apr. 28, 1981
34.	Bina Marga	Submittal of Engineer's Monthly Supervision Report No. 83.	Apr. 28, 1981
35.	Mr. Wahyudi	Invoice for Finance Charges.	Apr. 28, 1981
36.	JV-NYC	Transfer of Reimbursed Finance Charges.	Apr. 29, 1981
37.	ICCI	Removal of Fence.	Apr. 29, 1981
38.	Bina Marga	Recommended Treatment of Slope Erosion, Ramp 23 at the Jakarta Bypass.	Apr. 30, 1981
39.	Bina Marga	Suggested Improvements of Baranangsiang Traffic Signal Operations.	Apr. 30, 1981

SECTION X APPENDIX

X. 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

The construction contract was signed and approved on May 1, 1981. The amount of the contract is Rp 8,050,000,000.-