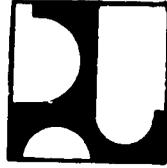
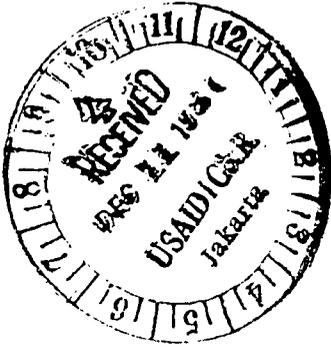


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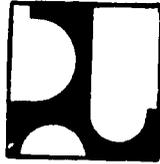
REPUBLIC OF INDONESIA
MINISTRY OF PUBLIC WORKS
DIRECTORATE GENERAL CIPTA KARYA
DIRECTORATE OF SANITARY ENGINEERING

CONTRACT FOR CONSULTANT SERVICES
FOR
SURAKARTA WATER SYSTEM
NO. 01/WS-S/I/AID/78
AID LOAN 497-U-044

MONTHLY PROGRESS

REPORT NO. 38
NOVEMBER 1981

BURNS & McDONNELL ENGINEERING COMPANY
AND
TRANS - ASIA ENGINEERING ASSOCIATES, INC.
A JOINT VENTURE



**REPUBLIC OF INDONESIA
MINISTRY OF PUBLIC WORKS
DIRECTORATE GENERAL CIPTA KARYA
DIRECTORATE OF SANITARY ENGINEERING**

**CONTRACT FOR CONSULTANT SERVICES
FOR
SURAKARTA WATER SYSTEM
NO. 01/WS-S/I/AID/78
AID LOAN 497-U-044**

MONTHLY PROGRESS

**REPORT NO. 38
NOVEMBER 1981**

**BURNS & McDONNELL ENGINEERING COMPANY
AND
TRANS - ASIA ENGINEERING ASSOCIATES, INC.,
A JOINT VENTURE**

BURNS & McDONNELL Engineering Co.

Architect - Engineers

A JOINT VENTURE

Consultants - Planners

TRANS-ASIA Engineering Associates, Inc.

Please Reply to: Kotak Pos 105
Surakarta

242/BM/TAE/SKA/81
01 Decemoer 1981

Mr. Soesanto Mertodiningrat, Director
Directorate of Sanitary Engineering
Directorate General Cipta Karya
Jl. Pattimura NO. 20
Kebayoran Baru
Jakarta Selatan

Subject : Contract for the Consultant Services for
Surakarta Water System No. 01/WS-S/I/AID/78
dated 28 October 1978 as Amended 23 July 1981.

Dear Sir,

In accordance with Section 4.12 and Appendix I of the
subject Contract, we are pleased to submit fifteen
copies of the Monthly Report No. 38 for the month of
November 1981.

We trust that this report will meet with your approval.

Very truly yours,

BURNS & MC DONNELL ENGINEERING CO.
TRANS-ASIA ENGINEERING ASSOC., INC.



J.F. BAUCOM
ACTING CHIEF ENGINEER



cc :	CJWSP	Semarang	(10 copies)
	USAID	Jakarta	(5 copies)
	BM/TAE	Jakarta	(2 copies)
	Burns & Mc Donnell	Kansas City	(1 copy)
	CJWSP I	Surakarta	(1 copy)
	SWE	Surakarta	(1 copy)
	Mayor of Surakarta	Surakarta	(1 copy)
	File		

JFB/yp.

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SECTION I
G E N E R A L

I-A NARRATIVE SUMMARY

Three Contracts were issued to the low bidders of each respective Phase of construction of bath houses and restoration of public latrines during the month of November and work is now in progress. There is still some problems with local Governments requesting changes in locations or arrangements of the various units. A coordination meeting was held at the operations Section of the City of Surakarta on 26 November to attempt to alliviate the problems. Some three locations are yet to be confirmed although they were once supposed to have been agreed to by all parties concerned.

It is understood the City DPU has completed the research of records regarding the remaining public latrine locations and is in the process of typing their findings for transmittal to the Project and/or the Consultant for further action.

The replacement operating nuts were received as expected and the ten percent (10%) retainer was released to the supplier. The supplier of PVC pipe and fittings submitted an alternate for the ϕ 200 mm all bell PVC tees as previously approved. He was having difficulty obtaining the base fitting which is injection molded. His alternate was accepted to use cast iron fittings at no increase in price to keep from having a long delay.

Work is progressing satisfactorily on the piping being installed though both contractors are behind in their planned progress. As of the close of business 25 November 1981, the Phase I contractor was 26.7% and Phase II was 25.6% finished.

Off-shore procurement activities center around obtaining firm sixty day price quotations from the various suppliers of O & M Tools and equipment and the Pumping/Power Generating Equipment. Results should be available by mid-December.

The 1981 Surakarta Water Distribution System Hydraulic Analysis was distributed according to Contract completing Appendix I, Article 208, subparagraph b.1.a).

Progress on the leak survey was negligible due to the Surakarta Water Enterprise deploying their personnel to other areas of operation. With the added amount of water available to the City being able to fill the Jebres reservoir in the evening as designed, the O & M Specialist has been able to conduct nocturnal leak surveys on two successive Friday nights with the Water Enterprise's personnel. Several areas were located which are suspect of large leaks. More investigative efforts will be required to verify.

I-B PROBLEMS AND PROPOSED SOLUTIONS

Negotiations are still in progress between the Water Supply Project office and DPU on agreeable location for replacement piping along Jl. Kol. Sutarto in Jebres. The Consultant is assisting in coordination and providing sketches of the existing conditions and utilities in the areas.

Some previously agreed bath house locations are now questionable because of actions on the part of DPU, the local Government or private citizens. Efforts are underway to secure alternate sites of equal work scope so as not to change the cost.

Water has been wasted by being allowed to flow back into existing wells which are no longer being used. The Consultant has recommended a check type valve be installed to stop the flow to the wells. The Surakarta Water Enterprise has completely disconnected one well from the network and it is understood the other will be plugged. Another loss of water has been in the frequent draining and refilling of the swimming pool owned by the Surakarta Water Enterprise. The Consultant has recommended that a filtration and disinfecting system be installed which will allow more water to be made available for the people of the City and help expenses for the Water Enterprise which in turn will help their ability to pay off the Loan by generating more income.

The Director General Cipta Karya has assisted in obtaining the authority to proceed with the railway crossings required to complete Section C of the Transmission Main construction. Before months end, some results were noted and the contractor has been advised to monitor so that his work can be completed as soon as possible.

The Jebres reservoir has been overflowing during the evening hours because the old supply piping the Water Enterprise had connected to the main drain pipe to serve customers in the area does not have a backflow check valve. It has been agreed to disconnect those pipes when the work is done to replace the old transmission main and connect the supply pipes directly to the new pipe.

SECTION II
ADMINISTRATION

II-A SUBMISSIONS/APPROVALS.

Consultant's Invoice No. 38 for October 1981 U.S. Dollar reimbursible expenses was submitted to Cipta Karya on 02 November 1981 and was approved by Cipta Karya on 09 November 1981.

Consultant's Rupiah Invoice No. 23 for October 1981 submitted to Cipta Karya on 07 November 1981 was approved on the same date. Payment of Rupiah Invoice No. 20 was received on 21 November 1981.

These submittals are in accordance with the Contract Appendix II, Page II-15.

II-B CONTRACT STATUS.

Appendix I shows the continuation of Consultant's effort in man-months from the beginning of the Contract.

Appendix II shows the billings of approved expenditures to date.

II-C PERSONNEL.

The Surakarta Office personnel in November were as follows

Expatriates

- James F. Baucom, Acting Chief Engineer
arrived 26 September 1979
- Albert G. Ringler, O & M Specialist
arrived 09 May 1980

Indonesian Professional and Technical

- Mohammad Khalil, Materials Coordinator
arrived 09 October 1978
- Mohamad Syarif Lembah, Construction Supervisor
arrived 01 May 1979
- Gatot Bramono, Inspector
arrived 19 November 1979
- Soewanto, Inspector
arrived 11 March 1980
- Abdul Rasyid, Inspector
arrived 11 June 1981
- Susena, Draftsman
arrived 20 October 1980

Administrative :

- Dradjat Atmardjo, Office Manager
arrived 02 October 1978

- Haryani Pudyastuti, Secretary
hired 17 November 1980

- Rubiyo, Clerk
hired 01 November 1978

- Pamudji Rahardjo, Driver
hired 02 October 1978

- Sutrisno, Driver
hired 02 April 1979

- Puranto, Driver
hired 17 October 1980

- Tukino, Office Boy/Labor
hired 10 November 1980

SECTION III
ENGINEERING AND MANAGEMENT

III-A OFF-SHORE PURCHASED MATERIALS	US.\$ COMMITTED	% PAID (ASSUMED)	US. \$ BAL. DUE
III-A-1 Direct Cipta Karya Procurement Contract			
III-A-1-1 American Cast Iron Pipe Co. Ductile Iron Pipe & Fittings Contract certified complete 01/02/80	2,595,511.60	100	- o -
III-A-1-2 Colcorindo Raya Flow Metering Equipment Contract certified complete 07/04/80	3,462.00	100	- o -
III-A-1-3 Rohan Corporation Water Meters, Repairs Parts- Tools & Equipment Contract certified complete 06/07/81	668,712.83	100	- o -
III-A-1-4 Clow Corporation Casting, Auto Air Vents & Valves. Contract certified complete 15/05/81	125,912.00	100	- o -
III-A-1-5 Ford Meter Box Company Brass Valves Parts & Access- ories. Contract certified complete 12/02/81	390,775.15	100	- o -
Sub Total	3,784,373.58	100	- o -

III-A 2 Special Equipment Procurement, Consultant's Contract

III-A-2-1	Western International Leak Detectors & Pipe Locators	2,400.00	100	- 0 -
III-A-2-2	Kennedy/Marlane Distribution Network Valves In Port of Semarang 23 May 1981	58,546.40	100	- 0 -
III-A-2-3	Laboratory Equipment-Variou Sources Majority Received Balance In Transit	11,303.54	100	- 0 -
III-A-2-4	Publication & Reference Data Various Sources - Balance In Transit	1,460.60	98.7	19.18
III-A-2-5	Repair Parts For Clow Various Sources - Complete	228.51	100	- 0 -
III-A-2-6	O & M Facility Outfitting Various Sources	207.18	100	- 0 -
	Total US \$	3,858,615.85	99.99	19.18

III-B CONSTRUCTION SUPERVISION

Delivery of the locally procured pipe and fittings is 99% completed with the balance due in December. The two distribution main contractors finished the connections to the existing system where they were already installed but not tested. Activities that relate solely to the installation of pipe, valves and fittings have been done as follows :

PHASE	KEMURAHAN	% INSPELLED	% TESTED
I	Jebres	49.8	40.7
I	Manahan	100	100
I	Kratonan	90.7	5.3
I	Gilingan	30.5	- 0 -
I	Kestalan	77.4	- 0 -
I	Kepatihan Wetan	95.3	- 0 -
TOTAL PHASE I		36.4	17.4
II	Semanggi	92.9	28.3
II	Danukusuman	98.4	99.0
II	Serangan	70.0	- 0 -
II	Tipes	2.7	- 0 -
TOTAL PHASE II		43.3	23.3

The total completion stands at 26.685% for Phase I and 25.545% for Phase II.

It is anticipated that Section C contractor will return to the project site to complete his work related to that part of the transmission main. The Railway Enterprise has installed support rails at the Jl. Jajar crossing leaving one other to go.

Work is underway on bath house Nos. 3-2, 3-5 and 3-3 and several public latrine locations. Delay was experienced by the Kecamatan Chiefs not being fully aware of the mechanics of the Contracts. A coordination meeting was held with them and DPU so that an understanding could be reached. As of this writing, there are still some problem areas which will require relocation of some bath house sites. It has been learned also, one of the existing public latrines has been razed for street widening. Efforts are being made to provide like locations to those changed or deleted so the work can proceed at no increase or decrease in cost. The entire bath house/public latrine construction work is considered to be 7.93% complete at this time. The Phase I Contract is 28.494% and Phase III

is 4.2743 with Phase II not reporting. The large spread is due to the completion of one of the Phase I bath houses which was used for the inauguration of the Surakarta Water Supply last August.

III-C GROUNDWATER EXPLORATION AND WELL DEVELOPMENT PROGRAM

Completed.

III-D MANAGEMENT ASSISTANCE PROGRAM

Completed.

III-E O & M TRAINING AND ASSISTANCE PROGRAM

Modifications to the existing O & M Facilities are being held for selection of equipment so that foundations can be set for the particular unit to be purchased. Tests have been conducted on radio equipment available in-country with 4 watt output. It has been found the range is not suitable for use on a large area as will be required by the Surakarta Water Enterprise. The O & M Tool and Equipment list presently out for quotations includes more suitable mobile units with a base station.

The first portion of Phase IV replacement program should be underway in December as part of the construction Contract for Phases I and II of the distribution system. Other locations will be done utilizing the PVC pipe purchased for same with the labor being provided by the Surakarta Water Enterprise.

Leak surveys along the old transmission main from the north side of the City to the West were conducted at night the last two weeks of November both on Friday nights.

It was more advantageous at that time due to early closing of many offices on Friday afternoon. Many of the branch lines from the transmission main were found to have an excessive amount of flow early in the morning when there should have been nil. After pinpointing locations, crews were sent for a more detailed evaluation and for writing work orders.

Several notices and directives were issued to the personnel of the Surakarta Water Enterprise by its Director the last of October and early November. Topics include "Better Water Meter Readings", "Work Planning and Daily Work Report", "Public Hydrant Management in PDAM" and "Procedures for New Customer Application" with "Instructions To Follow for --".

The Project Manager has requested the Surakarta Water Enterprise to consider dividing up the City into five sections as suggested in the last Consultant Management Review. After that, assign groups of the technical staff to each so that any one group will have a particular area to be held responsible for.

III-F METER REPAIR TRAINING PROGRAM

Completed.

III-G NEW WATER DISTRIBUTION NETWORK DESIGN

Completed.

III-H CONFERENCES

06 November 1981 : 0900 Meeting with the Project Manager, Head of PAB-I, Consultant and Contractors for distribution

main Phases I & II. The Project Manager went over needs for contractors to furnish sufficient manpower and equipment to do the job within the stated amount of time. He also recommended they complete payment for the railway crossings immediately and submit all of the required shop drawings so as not to delay the work.

: 1400 Meeting with the head of PAB-I, Consultant and the successful contractors for the three phases of construction of bath houses and public latrines. The contractors were advised to provide their time schedule for the work and to proceed immediately.

09 November 1981 : Coordination meeting with the three contractors for bath houses and public latrines and DPU. The latter advised latrine No. IV-Dg-2 (old #44) is to be torn down to widen the adjacent street. Contractors indicated the plan for execution of the work.

10 November 1981 : Coordination meeting with the two contractors for the distribution piping construction. Agreement made to approve 50% completion for bridge materials when delivered to site and an equivalent percentage of the ratio for the railway crossings at the time permits were taken out for same with proof of payment. The Surakarta Water Enterprise was requested to provide better line shutoff for making tie-ins. It was said their people are being sent to close valves ill prepared with no tools if a valve box is covered over with soil.

17 November 1981 : Coordination meeting with the two distribution main contractors and SWE. The contractors and SWE were cautioned to not open more places in the existing piping than the contractor could complete. The rainy conditions at the present time cause dirty water to fill the pipe and contaminate them.

18 November 1981 : Coordination meeting with the three contractors for bath houses and public latrines and DPU.

It is learned the nearby residents do not want bath house No. 3-5 to be constructed and DPU advised they intended to install and roadway at that location. DPU is to locate an alternate location. Ph. I will work BH # 3-4 + 5 latrines, Ph. II will work BH # 3-3 + 3 latrines and Ph. III will work BH #3-2 + 10 latrines

24 November 1981 : Project Progress Meeting - See Appendix IV.

25 November 1981 : Coordination meeting with the three contractors for bath houses and public latrines. It was stated KIP wanted bath house No. 3-4 split into two sections and locate half on either side of the kampung - that they would pay the contractor for the added costs if agreeable. Contractor will prepare and estimate for the added costs. It was learned Kecamatan Serengan had stopped all work which involves Phase I pending a meeting at City Hall to discuss their problems.

26 November 1981 : Coordination meeting with the Deputy to the Mayor of the City of Surakarta, DPU, the Chiefs of the Kecamatans, the Head of PAB-I and the Consultant. The Project explained that design and location of structures had been coordinated with the DPU, KIP, Kecamatans and all Kelurahan. He said the U.S.A.I.D. Loan was to pay for the construction costs and that deviations could not be made if added costs were involved without approval of the financier. It was indicated work could resume except for two or three locations which require new site selections.

III-J ACTIVITIES PLANNED FOR THE NEXT MONTH.

Continue with all construction effort including delivery and storage of materials. Receive and evaluate quotations on Q & M tools and equipment and possibly deep well equipment. Continue with leak survey as personnel

are made available by the Surakarta Water Enterprise.
Provided the City DPU returns necessary determination,
prepare tender documents on Phase IV of the Public Lat-
rine Restoration.

SURAKARTA WATER PROJECT
 REPORT OF MAN-MONTHS EXPENDED BY CONSULTANT
 BURNS & McDONNELL / TRANS-ASIA ENGINEERING ASSOCIATES

CONTRACT NUMBER OI/WS-S/AID 778 AID LOAN 497-J-044	MAN - MONTHS				
	FOR NOVEMBER 1981	CUMULATIVE THROUGH NOVEMBER 1981	TOTAL IN CONTRACT SCHEDULE	% OF TOTAL USED PER SCHEDULE	BALANCE
EXPATRIATES					
PROCUREMENT ENG. CHIEF ENGINEER	0.7	8.2	14.5	56.5	6.3
	0	26.2	30	87.3	3.8
CONSTRUCTION SPECIALIST LIAISON OFFICER	1.16	26.1	36	72.5	9.9
	0	4.51	7.5	60.1	2.99
PRINCIPAL	0	0.17	2	8.5	1.83
HYDROGEOLOGIST DRILLING SPECIALIST	0	8.1	12	67.5	3.9
	0	10.5	12	87.5	1.5
S & M SPECIALIST METER SPECIALIST	1	33.4	41.5	80.5	8.1
	0	0	8	100	0
MANAGEMENT SPECIALIST SPECIALIST	0	20.2	21	96.1	0.8
	0	0	3	0	3
DESIGN SPECIALIST	0	12	12	100	0
EXPATRIATE TOTAL	2.86	157.38	199.5	78.9	42.12

EXPAT RATE TOTAL	1973	197.31	199.5	78.9	42.12
INDONESIAN PROFESSIONAL & TECHNICAL					
CONTRACT CHIEF ENGR.	0	26.6	33	86	4.4
CONSTRUCTION SUPERVISOR	1	16.9	36	46.9	19.1
HYDROLOGIST	0	20.7	26	79.6	5.3
MATERIALS COORDINATOR	1	38.0	48	79.1	10.0
INSPECTORS	3	113.0	146	77.1	33.0
DRAFTSMAN	1	49.0	66	74.2	17.0
ACCOUNTANT	0	34	32	106.2	(2)
TECHNICAL TRANSLATOR	0	17.8	18	98.8	0.2
DESIGN ENGINEER	0	6	8	75	2
SPEC. / COST ESTIMATOR	0	4.6	3	133.3	(1.6)
SR. SURVEYOR / PLOTTER	0	5.4	5	108	(0.4)
SURVEYOR	0	5	5	100	0
INSTRUMENTMAN	0	6.3	5	126	(1.3)
TOTAL PROF. & TECH.	6.0	345.3	431	80.1	85.7
INDONESIAN ADMINISTRATIVE					
OFFICE MANAGER	1	38.0	48	79.1	10.0
SECRETARY (3-4000) (1)	1	30.5	34	67.7	17.4
TYPIST	0	27.2	31	53.3	23.8
CLERK	1	99.5	88	113.1	(11.6)
DRIVERS	3	154.3	223	69.2	68.7
LABORERS	1	165.2	258	64.0	92.8
RECEIVER / CHAINMEN	0	13.8	10	138.0	(3.8)
ADMINISTRATIVE TOTAL	7	540.7	732	73.8	191.3

SURAKARTA
REPORT OF B
BURNS & McDONNELL/TR

CONTRACT NO. 01/WS-S/AID/78 SIGNED 26 OCT. 1978 START 1 JAN. 1978 END 30 SEP. 1982 REIMBURSABLE EXPENDITURES	COSTS FOR	CUMULATIVE COSTS THROUGH	
	NOVEMBER 1981	AMOUNT	% OF TOTAL BUDGET ESTIMATE
US			
Salaries and Related Costs	17,669.10	962,939.92	85.0
Transportation	-	73,631.72	88.3
Equipment	-	12,455.36	77.8
Miscellaneous	-	63,563.48	109.4
Contingencies	-	53,470.70	84.5
TOTAL DOLLARS	17,669.10	1,166,061.18	86.1
INDON			
Salaries	6,922,000	170,251,217	76.0
Transportation	1,891,050	70,222,533	83.6
Housing	-	64,000,000	101.6
Vehicle Costs	1,218,500	49,247,972	91.7
Equipment Costs	-	24,610,860	101.4
Miscellaneous	505,320	82,867,460	90.2
Contingencies	-	33,144,580	99.7
TOTAL RUPIAH	10,536,870*	494,344,622	86.1

* As per R
** Rp. Invo

17

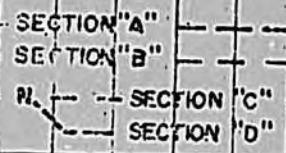
ATA WATER PROJECT
ENGINEERING COSTS
TRANS-ASIA ENGINEERING ASSOC.

LINE	CUMULATIVE PAYMENTS THROUGH			TOTAL BUDGET ESTIMATE FOR CONTRACT
	AMOUNT RECEIVED IN NOVEMBER 1981	TOTAL AMOUNT RECEIVED THROUGH NOVEMBER 1981	% OF TOTAL BUDGET ESTIMATE	
US DOLLARS				
	18,545.34	945,270.82	83.5	1,132,179
	5,664.00	73,631.72	88.3	83,343
	-	12,455.36	77.8	16,000
	-	63,563.48	109.4	58,063
	-	53,470.70	84.5	63,271
	24,209.34	1,148,392.08	84.9	1,352,856
INDONESIAN RUPIAH				
	-	163,329,217	72.9	223,759,250
	-	68,331,483	81.4	83,952,600
	-	64,000,000	101.6	62,975,000
	-	48,029,472	89.4	53,675,000
	-	24,610,860	101.4	24,253,000
	-	82,362,140	89.7	91,810,000
	-	33,144,580	99.7	33,236,460
	19,620,000**	483,807,752	84.3	573,661,310

* Rp. Invoice No. 23 October 1981 and No. 24 November 1981
voice No. 20 Mobilization

18

OPERATIONAL AREAS	ORIGINAL CONTRACT																							
	1978			1979																				
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
TECHNICAL ASSISTANCE																								
OFF SHORE 19/9/77																								
DUCTILE IRON PIPE & FITTINGS A CIPCO						S ¹	P	R ¹																
KU.04.02 11/8/78	A						S ¹	P							R ²									
BUTTERFLY & GATE VALVE & CASTINGS CLOW CORP.																								
KU.04.02 13/7/78				A																				
REPAIR PARTS, TOOLS & TRUCKS THE ROHAN CO.																								
KU.04.02 11/8/78																								
FLOW METERS & ACCESSORIES PT. COLCORINDO R.																								
KU.04.02.13/7/78																								
OFF SHORE 20/6/79																								
BRASS GOODS & ACCESSORIES FORD METER BOX CO.																								
KU.04.02 02/12/79																								
TRANSPORT CONTRACT																								
TRANSMISSION MAIN SECTION A & B																								
SECTION C & D																								
WELLS																								
RESISTIVITY TEST TW-1 & TW-2																								
OFF SHORE PUMP & GEN.																								
TRANSMISSION SYSTEM																								
1100 services + 47 P.H.																								
KELURAHAN 1-8																								
PIPE & FITTINGS LOCAL PURCHASE																								
Kelurahan 9-12 & 19-21																								
Kelurahan 13 & 15-17																								
Kelurahan 14-18 & 22																								
Valve - Offshore PROCUREMENT																								
PUBLIC LATRINES																								
PUBLIC BATHS																								



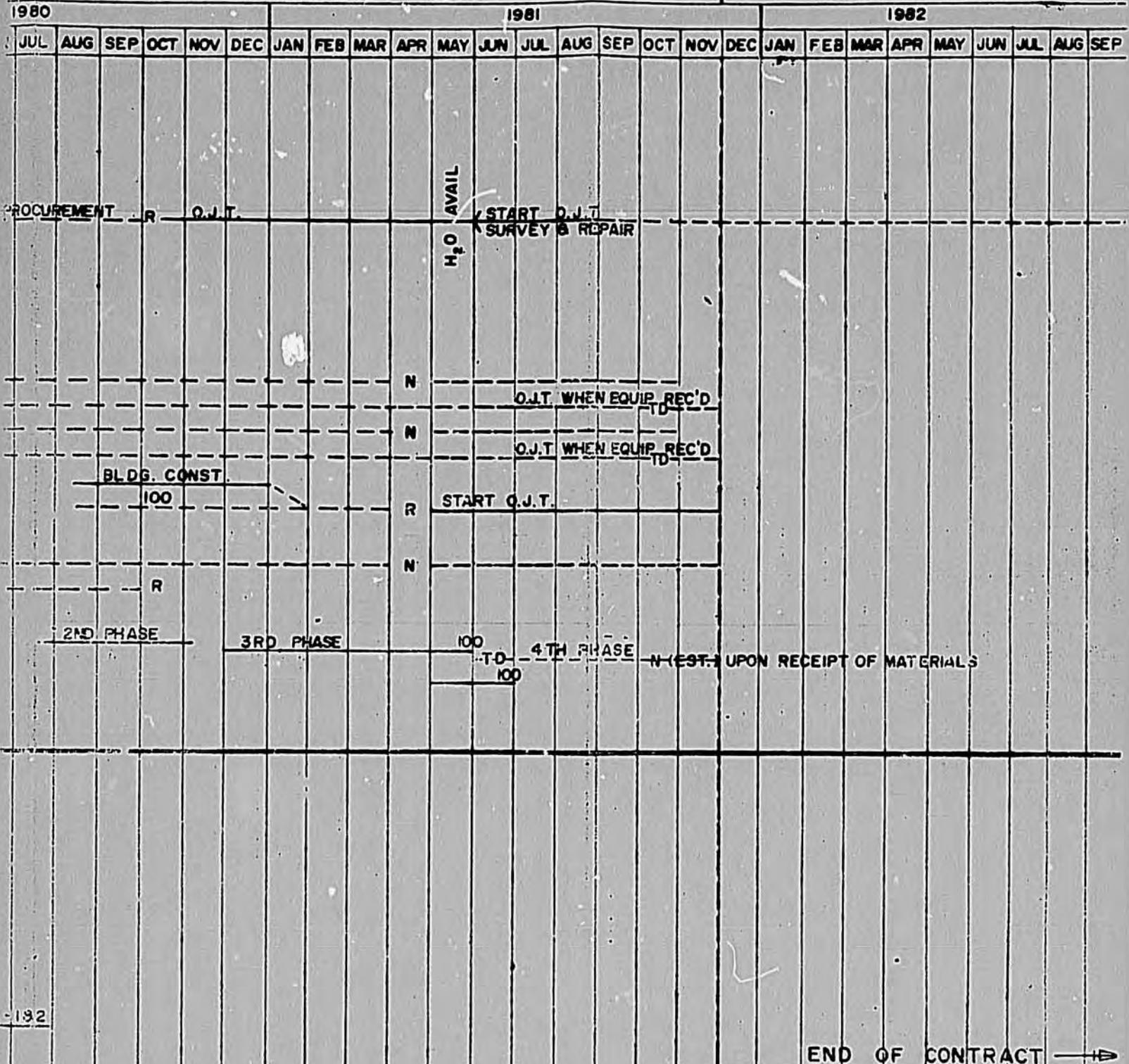
WATER PROJECT WORK APPROACH

APPENDIX III

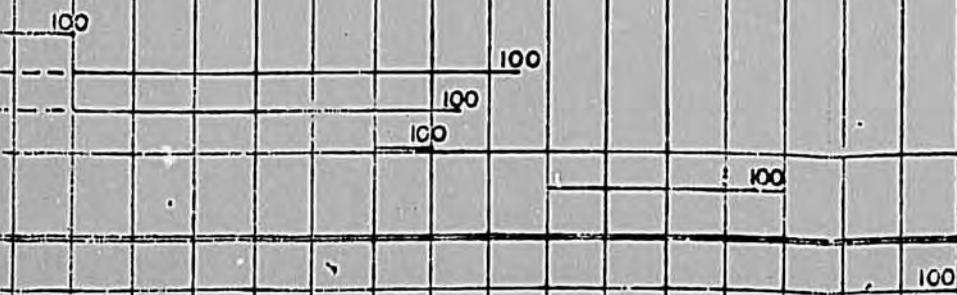
PAGE 3 OF 8

AMENDMENT NO. 1

AMENDMENT NO. 2



- LEGEND :**
- A = SUBMITTAL DATA APPROVAL
 - C = COMPLETE / CERTIFIED
 - N = NOTICE TO PROCEED
 - P = PORT ARRIVAL
 - Q = QUOTATION REVISED
 - R = RECEIVED AT JOBSITE
 - S = SHIPPED (S' NO. SHIPMENT SAME SOURCE)
 - F = FINAL INSPECTION
 - TD = TENDER DOCUMENTS
 - 0-100 = PERCENTAGE CONSIDERED COMPLETE
 - (EST.) = ESTIMATED
 - T = TERMINATED



MINUTES OF MONTHLY PROGRESS MEETING.

Meeting : November 1981
 Date : 24 November 1981
 Hours : 10:00
 Place : CJWSP I
 Jl. Brig.Jen. Sudiarto 534-Solo.

Participants :

1. Ir. Krisno Darusman	CJWSP
2. Ir. Waluya Tossin	CJWSP
3. Ir. Hari Wahyuadi	CJWSP
4. David E. Warner	USAID
5. Philip B. Cakranata	USAID
6. Soelarno	SWE
7. Clare W. Copleman	BM/TAE
8. J.F. Baucom	BM/TAE
9. A.G. Ringler	BM/TAE
10. Syarif L.	BM/TAE

Conclusions :

- Mr. Krisno suggests to CJWSP I and Consultant to seek information to Chief of Yogyakarta Railroad Company about the railroad crossing at Section C which has been for sometime without any reply from the Railroad Company. It is necessary to bring along any copy of correspondence made by CJWSP I to Surakarta Railroad Company.
- O&M Specialist mentions that there are 2 (two) wells in Pasar Gede and Pasar Kliwon connected with SWE system without check valve. SWE answers that the system to the wells has been shut off. But Mr. Krisno stresses that both Consultant and SWE to check the situation together and find the true condition at present.
- Mr. Krisno instructs SWE the latter to install check valve in every house connections. SWE answers that the regulations to install check valve to house connections do not exist. Mr. Krisno to prepare letter that SWE should issue a regulation for installing check valve to house connection. This regulation will be for the good of SWE.
- O&M Specialist prepares a work order for SWE every day to repair leaks and water meter connections at houses.

Mr. Krisno suggests that SWE should not wait and act upon the work order prepared by O&M Specialist but to make their own initiative to survey the leaks. Because according to the Consultant there is loss unaccounted water of 67 %. No one knows where it goes yet. Mr. Krisno shall prepare letter suggesting SWE to make division of their Manpower into areas of operation or sections so that each group will be responsible for their assigned area rather than the whole work force being assigned tasks daily in various parts of town.

Mr. Hari requested SWE provide a list of addresses for some 119 public hydrants installed by K.I.P. etc. which he feels are not being metered or meters not working. The O & M Specialist will investigate those locations within the regular leak survey now underway.

Regarding the procurement activities the Consultant reported the list of O & M Equipment and tools was mailed to the suppliers on 28 October 1981. Assuming a 30 day period for response and two weeks for mail to Indonesia, prices should be ready for evaluation in mid December.

Decision on purchase will have to be made by last of January 1982 to comply with the 60 days firm price quotation. That would leave 8 months for suppliers to ship goods, reach Semarang port, clear through customs and be received for Consultant certification before the cut-off date on the USAID loan disbursements of 24 September 1982.

Basically the same is true regarding the pumps. Generators and controls for the two test wells. During the meeting, Mr. Sorta, Chief of Logistics-DSE- Jakarta, was telephoned. He said there is no problem in the method of procurement-obtaining the 3 quotes, etc. He is mainly concerned about necessary paper work to clear it through customs, since it is in addition to, or was not a part of the Consultant's Contract. Mr. Sorta recommends the Consultant point out all relevant matters when he writes his recommendation for purchase. There had been some discussion before that C.K. may want to check prices on the local market. The Consultant recommended that CK do so now on the list provided because of the time factor.

The Consultant pointed out also that the locally priced tools and equipment would have to be of Indonesian manufacture or within the USAID code 941 countries otherwise USAID would not be able to pay for them.

The Consultant reviewed construction progress and of the original 22 Kelurahan established for additional distribution pipings at the present time, the work is considered to be approximately 30 % completed. It was also noted that construction was underway on the bathhouses and public latrines.

For the benefit of new USAID personnel, a brief reviews of the training program for SWE was given by the O & M Specialist. On-the-job training is now in progress for field and laboratory personnel. Upon receipts of the tools and equipment being procured, O-J-T will be provided, time permitting.

Mr. Krisno advised he has included in his budget for FY 1982/1983 to install the well pumps and generators. The Consultant said their commitment would be satisfied upon receipt and certification for payment of the equipment. Installation could still be done between 24 September 1982 and 01 April 1983, after departure of the Consultant's personnel.

Regarding letters received by CJWSP from DSE and the Air Force about supply of water to the air base, it was noted the allotted 400 L/S could possibly be increased by the Governor of Central Java to provide the quantity needed. Otherwise a separate deep well would have to be developed.

Copies of the Consultant's letters recommending the use of float valves on any supply to storage reservoirs and particularly the four at the Kartasura Commando base were handed to CJWSP who agreed in principle. He inquired if valves and meters could be included in procurement for O & M equipment, the answer being the time for delivery would be too great. This is to be investigated further, as the work will be a part of Phase III next year and items could be installed at a later date.