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AS

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CONFIDENTIAL

July 22, 1966

REGISTERED

[Redacted]

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Fort Davis Station
Washington, D. C.

Attention: [Redacted]

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Subject: Interim Report Phase I Contract [Redacted]

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Gentlemen:

This progress report covers the period from date of award to the present date and is to be considered as the interim report, as required in the contract under Phase I (one) Item I (one).

Phase I has suffered considerable delays and the following statements, based on facts, are the reasons which lead to the delay.

At the time of award of this contract, we had a working agreement

with [Redacted]

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to service our

western account for optical design and consultant work. He received

a monthly retainer of [Redacted]

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plus cost of computer expenses incurred

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[REDACTED]

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while doing optical design for [REDACTED] This retainer
was paid each month for 25% of his time.

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It was decided that [REDACTED] would do the basic lens design for this
contract, based on his experience in optical design [REDACTED]

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[REDACTED]

We assumed that since no objections were being voiced, that this met the
approval of the technical representative and we proceeded with our En-
gineering meeting and outlined the schedule and tasks of each individual
associated with the project.

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The original schedule called for Phase I to be completed on September 28,

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1965. However, due to the complexity of the design and minor computer breakdowns and a period of illness [REDACTED] the optical design schedule was revised to account for the delays. The design was re-scheduled for completion in October.

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A preliminary design of 3rd order theory was submitted by [REDACTED] late in September for the zoom portion of the design, which we began to lay-out to check its compatibility with the mechanical mounting.

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After the preliminary layout work was completed, it was discovered that the optical design was not suitable for the application and was returned for re-work.

A new preliminary design was submitted (see letters of Nov. 18 and Dec. 4 attached from [REDACTED]). Again a mechanical layout was made and still found to be incompatible with the design.

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In December [REDACTED] was called to [REDACTED] to discuss the problems of the design. We had an Engineering meeting with all the staff assigned to the project present. [REDACTED] indicated that although the design did not

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fit mechanically, he would make only minor changes to the optical system and based on this information, we proceeded to make a wooden model of the configuration of the microscope. This was not part of the contract and was not charged to this contract, but was absorbed by 

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The wooden mock-up of the microscope was shown to the technical representative, and although it was mechanically to the original concept of the contract, it was decided that from a human engineering point of view it was much too large.

The working distance from the objective to the object on the high power was as originally agreed at 2", however, on the lower power the distance increased to between 7" and 8".

Due to the construction of the light table and the mounting facilities, we agreed to re-work the design and keep the working distance of the low power objective to a maximum of 4" and 1/2" minimum on the high power objective.

An additional mock-up was made with these changes at our expense, and shown to the technical representative. This unit met with his approval.

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Photographs of both units were supplied to him. The latter unit was more compact and included features which were not originally part of the contract. However, since the mechanical design was not frozen at the time, we felt that we could incorporate these features at no additional cost to the contract.

At this point, since we had still not received a final design, we re-assigned the optical design portion to [REDACTED] of our optical design staff. [REDACTED] is one of two full time lens designers and is competent to perform this design. See attached abbreviated Resume.

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We feel that this move allowed better control over the design effort in view of [REDACTED] performance up to the change over point in latter part of March. We did not feel, in view of his lack of progress, that we should continue to retain him.

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[REDACTED] has already submitted the first preliminary optical design. The completed optical design, fund status and final report of Phase I will be completed no later than July 30, 1966.

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This final report will contain all the requirements of Phase I.

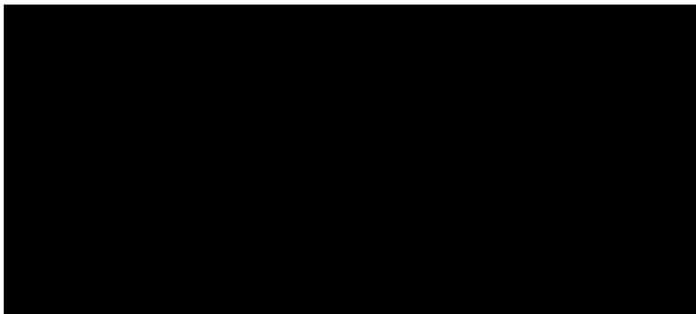
Should Phase I be acceptable, the attached schedule will apply.

Also a monthly progress report in accordance with the contract will be mailed the end of the last working day of each month.

If the evaluation should require less time than allowed by the contractor, the delivery date can be pushed forward by an equal amount.

Should there be a need for clarification on the contents of this report or additional information is required, please advise.

Very truly yours,



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Encs.

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