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NOTED

AUG 18 1971

FNN H. LANDIS
AUG 16 1971

Memorandum

To: Acting Director
From: William A. Schmidt
Subject: EROS Data Center, Report of Trip,
Sioux Falls, S.D., August 3, 4 and 5, 1971

On August 3, P.M. Messrs. Kulou, Landis, Ishmael and myself met with the A-E and staff for the purpose of reviewing the "tentative drawing" submission preparatory to the Project Directive Board meeting to be conducted on the following day. The tentative drawings were reviewed in detail and were approved subject to minor changes in accordance with the attached listing.

The entire day of August 4 was spent by the conferees noted above in reviewing the Project Directive. Items covered comprise (1) detailed cost estimate (2) exterior materials (3) interior materials (4) interior finishes and (5) structural, mechanical and electrical systems. The Board approved the Project Directive subject to minor changes in accordance with the attached notes. Pending receipt and approval of the rendered perspective which will complete the A-E services under this phase of the design contract a formal approval including processing a partial payment will be prepared for your signature. The A-E was orally instructed to proceed with the preparation of working drawings and specifications (bidding documents) in order to avoid delay in completion of his services.

During the noon break this same day I met with Mr. Al Schock and Dave Stenseth representing the SFIFW, together with their lawyer and an interested local banker. The purpose of this meeting was to bring them up to date on design and informally discuss a proposed lease agreement between the Survey and the Foundation. The draft of the lease agreement was based on that between Gulf-Reston and GSA.

The early A.M. of August 4 was inspection by the Survey representatives of a mock-up section of the exterior material proposed for window and wall panels. With the suggestion to lighten the color of the matrix the material appeared

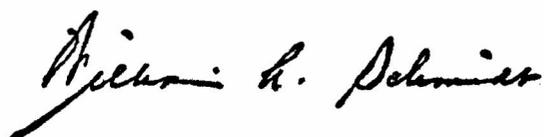
quite satisfactory. On site inspection of two different manufacturers' double glazed, with interior venetian blind, type window proposed by the A-E was also made. These windows are architecturally acceptable and are specially practical from a standpoint of insulation from heat and cold together with light penetration control.

Following the foregoing I met with the SFIDF executive committee members for the purpose of briefing them on project status. As a result of thorough discussion with and study by the A-E it is now considered most practicable with completion of plans and specifications scheduled for early November to award a construction contract in early January. This schedule would allow the general contractor to initiate construction subject to weather and also place orders for lead time material. The committee was so informed and appeared pleased with this approach rather than proceeding on a phased basis.

The foregoing concluded the trip activity leaving the preparation and execution of the lease agreement as the next action of priority.

I am, in coordination with the A-E, pursuing all necessary actions required in order that the Government can make commitments leading to electric, water and telephone services and road and highway improvements for site access. Construction time for each of these items is estimated at 12 months.

I will also assist the SFIDF in obtaining financing to the best interests of the Survey and also in creating a competitive market for construction bids.



William A. Schmidt

cc: Director's Chron
Mr. Fischer, Rm 5213
General Files (Code 14)
Office Chron

Mr. Landis ✓

Frank P. Ishmael: ad
August 12, 1971



ARCHITECTS ENGINEERS PLANNERS/P.O. BOX 1123/SIOUX FALLS, SOUTH DAKOTA 57101

EROS DATA CENTER
SIOUX FALLS, SOUTH DAKOTA

Conference Minutes - Howard Johnson's
August 3-5, 1971

Present: William A. Schmidt - USGS
Frank P. Ishmael - USGS
Glenn H. Landis - USGS
James R. McCord - USGS
Don P. Kulow - USGS
Milt Berg - FKGB
Bill Beck - FKGB
Earl E. Angle - FKGB
Dan Woldt - FKGB
James J. Foy - FKGB
W. E. Bentzinger - TSP
David L. Rosenstein - TSP
John L. Loveland - TSP
Richard Robinson - TSP
Don Kalda - SKA
Don Schmitz - SKA
Duane Paulson - TSP

A. REVIEW OF TENTATIVE DRAWINGS

Sheet 3-1, 3-2, 3-8 - No Comments.

Sheet 3-3

1. Revise location of Rooms IA-5, 6, 7, 9 per sketch. Accordion folding partitions shall be satisfactory to subdivide multi-purpose room. Rigid panel folding partition shall be used between the A/V Room and the multi-purpose room. Provide 6 foot wide green chalkboard (adjustable height) on one wall of each of the multi-purpose rooms.
2. Remove partition between IA-24, 25 and move door to corridor as at IA-23.
3. Discussed graphics in IA-2. Decided to leave Grid V partition blank for future graphics or art work (not in this A/E contract). Provide no directory. Provide grid of flush floor electrical outlets. Prefer to see concrete facing extend into lobby at entrance - consider inside-outside ground cover.

4. Interchange IA-44 and IA-3. Office landscape between IA-4 and IA-3. Possible 10 computer outlets in IA-43. Provide counter in IA-43.
5. Light level in IA-44 to be same as normal office light level. Separate IA-44 from IA-43 with office landscape.
6. Provide carpet in IA-3, (IA-24, IA-25) IA-43, IA-44 and IA-4.
7. Corridor IA-8 can be narrowed to 8' nominal (pocket doors if necessary - fire safety).

Sheet 3-4

1. Narrow corridor IB-7 and 1B-41 to 8' (pocket doors if necessary - fire safety).
2. Folding partition in IB-42 to be sound controlled (not accordion). Provide carpet in IB-2, IB-3, IB-4 and IB-42.

Sheet 3-5

1. Reduce size of IC-8, provide 4 more PGM offices as per sketch.
2. Narrow corridors IC-50, IC-7 to 8' (pocket doors if necessary - fire safety). Check to see if IC-71 is too narrow.
3. Relocate access doors to pipe chases from Room IC-6 to coat room.
4. Provide three large transfer cabinet 36" wide (6-8 CF internal size) to IC-47 from IC-51.
5. Conveyor belt at IC-12 is dish return type with vertical air curtain at two openings to IC-13. Curtain to be fly fan with screen slot at bottom.
6. Vault construction to be 2-hour enclosure including 2 hour door, unless Landis notifies us to the contrary.

Sheet 3-6

1. Revise plan of ID-22, 8, 9, 10, 11, 12, 28, 29 to enlarge receiving and reduce ID-29 per sketch provided.
2. Provide door to dock from ID-10. Provide door to Stair #4 from ID-24.
3. Food service - wait for further instruction from USGS.

4. Decision to add standby generator for electrical power to be provided (estimated cost of \$20,000 additional if load limited to emergency lights and power for certain critical equipment). EDG is to be provided specific area and equipment by Landis. Battery operated emergency lights will be eliminated.
5. Change name of ID-17 to "Mechanical Equipment Room."
6. Decided to not provide snow-melting at the dock or steps.

Sheet 3-7

1. Room 2D-3 shall provide for currently 20 fibre-glass tanks, each to contain no less than 150 gallons each, fitted with both a cover and a floating lid. Tanks are preferably as narrow as possible, six feet maximum in height. Allow space for additional tanks.

Sheet 3-9

1. Consider reducing quality of overhead doors.
2. Eliminate most of Corridor #2 and enlarge storage spaces.
3. Consider adding a man-door at side of garage.
4. EDG to check with Aerospace on need to provide electrical grounding of reinforcing and structure.

Sheet 4-1 and 4-2 - No Comments.

Sheet 4-3

1. Correct drop floor at Section A-A.
2. Change rake of stair to crawl space at Section BB.

Sheet 4-4

1. EDG to submit data on precast panel color, texture as soon as possible. Specify a method of testing the effective electrical connection of reinforcing in all precast panels.

Sheet 4-5

1. Restudy detail of skylights, particularly to avoid the gutters which are problems due to icing and subsequent leaks.

Sheet 7-1, 7-3, 7-4, 7-5, 7-8, 7-9, 7-10, 7-11, 7-12, 7-13, 7-14
No Comments.

Sheet 7-2

1. Correct Note #4 on size of pile cap.

2. Prepare specification on piling to have owning agency provide on-site consultant to direct the pile placement. Load tests of piles are to be omitted.

Sheet 7-6

1. Reorient plan vertically.
2. Drop floor 18" from Grid CC to ZZ and from 22 to 10 verified.

Sheet 7-7

1. Drop floor 18" from grid Z to V and from 22 to 10 verified.
2. Drop floor 18" from grid R to O and from 22 to 12 verified.
3. Drop floor 8" from grid S to O and from 12 to 10 for cooler and freezer rooms.
4. No action taken on locating a printing press. EDG to proceed without press.

Sheets 9-P1 thru 5

1. EDG is to design and size plumbing header to equipment areas. Vertical drops and connections to equipment are to be excluded from building contract. (Some processors require seven chemical lines.)

Sheets 9-HVAC-1 thru 3

1. Landis will provide EDG with any change in Aerospace criteria for air filtration. Decided to provide ordinary air filtering in terminals but to size and rough-in for HEPA terminals should they be necessary in future.
2. Eliminate second boiler and provide only one - 10,000 gallon oil storage tank.

Sheets 9E-1 thru 8

1. Reduce number of lights in crawl space.
2. Provide rheostat control of incandescent lights in multi-purpose rooms and user offices.
3. Provide flush duplex floor outlets at 10/bay (20 x 20) in multi-purpose room.

Sheet 17-1

1. Reduce amount of landscaping.

B. SPECIFICATIONS

The specification format will follow the CSI method. Specifications will list three names and "or equal" as is customary on non-federal projects. (AIA-AGC) General and Special Conditions will be part of the specification documents. EDG to review GSA specification on painting.

C. ALTERNATES

Only add alternates are to be used. Prior to submitting the final cost estimate, EDG should consider the following omissions or reductions with add alternates considered:

1. Omit curb and gutter from all roads.
2. Snow melting.

D. CONTRACTS

The following items are to be contracted separately:

1. Landscaping (sodding in construction contract, however).
2. Carpet.
3. Lab equipment, furniture, exhibit case, plaque.

The USGS intends to furnish the following items:

1. Fire extinguishers (recessed cabinets in construction contract, however).
2. All fluorescent lamps.
3. Battery operated clocks.

E. COST ESTIMATE

In preparing the final cost estimate EDG is to recheck the unit prices for:

1. Grounding reinforcing and other construction metals.
2. Fencing.
3. Landscaping - provide greater detail of cost breakdown.
4. Sprinkling system.

EDG to check with Aerospace on necessity of grounding metal partition and ceiling systems and method of grounding.

F. PROJECT DIRECTIVE CORRECTIONS (MATERIALS AND FINISHES)

1. Planting and ground cover - separate contract.
2. Exterior windows - fixed (not pivoted), check glass thickness with manufacturer, blinds pivot only.

3. Omit fire rated doors.
4. Omit cornerstone. Provide a metal wall plaque located in the lobby.
5. Title letters to be anodized aluminum.
6. Relocatable partitions - EDG to check on cost comparison of wood studs in lieu of metal studs. Consider electrical grounding. EDG shall use cheaper of the two. Consider access doors required.
7. Special doors should refer to "access door" in lieu of "trap door". Landis will provide EDG with name of manufacturer of revolving doors at Goddard.
8. Bulletin and Directory Board is to be omitted.

- Finish
- 2 - Omit "wood" at ceiling.
 - 5 - Consider indoor-outdoor carpet at walls (check flame spread rating) or wallscape.
 - 6 - Omit granite base.
 - 17 - Corridors ID-8, ID-13, Rooms ID-11, ID-25 to have concrete floor finish.
 - 21 - Omit mat.
 - 27 - Rooms ID-19 and ID-26 to be concrete floor finish.
 - 31 - Omit granite base.

Hardened concrete floor finish is satisfactory if steel troweled and liquid hardener (dust proofing) applied. EDG to consider use of quarry tile or natural cleft slate in lieu of granite floor finishes as a potential cost saving.

MGS Building

1. Use metal shower unit in Room.
2. Omit all V.A. Tile covering.

Respectfully submitted,



Duane P. Paulson, P.E.
Project Manager

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