

TEXAS TECHNOLOGICAL COLLEGE
Lubbock, Texas

MINUTES OF THE CAMPUS PLANNING COMMITTEE

Meeting No. 82

July 12, 1960

A meeting of the Campus Planning Committee was held at 8:30 a.m. on Tuesday, July 12, 1960, in Room 120 of the Administration Building. Members present were Mr. E. J. Urbanovsky, Colonel C. P. West, Mr. Bill Felty (representing Mr. Nolan E. Barrick), and Chairman M. L. Pennington. In addition, Mr. D. M. McElroy was present.

1173. Approval of Minutes

On motion by Mr. Urbanovsky, seconded by Colonel West, the Minutes of Meetings Nos. 80 and 81 were approved.

1174. Agricultural Plant Sciences Building

The contractor has been delayed a bit due to the recent rains but he is making good progress. Some of the "T" sections are being raised. The architects are having a new sample of the solar screen set up for inspection.

1175. Air Conditioning (Registrar's Office)

The steps taken by the contractor to correct the last two items remaining on the punch list were unsatisfactory and he is making another attempt.

1176. Boiler and Housing

No word has been received from Martyn Brothers on the boiler and there are still a few items remaining to be done.

The housing is complete with the exception of a few leaks in the roof which the contractor will correct.

1177. Chemical Engineering Building

- A. The excavation is complete and the foundation is being poured. Progress is good, although there has been some delay caused by the recent rains.
- B. Mr. Vaughn has reported that ceremonies officially recognizing the start of the construction will be held the afternoon of July 14, 1960.

1178. Classroom-Office Building

Progress on the items on the punch list has been delayed due to the fact that Mr. Turner Kimmel, the architect who handles the project, has been in the hospital. The architects have been requested to get information from the manufacturer on the chalkboards and work is being done on the other items, including the air conditioning. Colonel West is to work on the leaks in the roof and the contractor will be required to repair the damage to the plaster.

1179. Computer-Architecture

- A. The contractor is about three weeks behind schedule as he has been delayed by the bricklayers' strike and the recent rains. He has requested a twenty-seven day extension of time to his contract due to the bricklayers' strike. His request is to be checked out and a recommendation made later.

1179. Computer-Architecture (continued)

B. The equipment lists:

1. Architecture and Allied Arts

The equipment is out for bids at the present time.

2. Computer

The list of requested equipment, totaling \$29,954, for the Computer Center was considered at length. It was agreed that the equipment must be geared to the needs as they develop and that it would be best to recommend equipment on requests for specific functions rather than on the entire amount of space before the needs are definitely established.

Wouldn't it be well to send out an inspecting party to view other operations to aid in the development of the equipment list for Texas Tech?

1180. Fanning, J. R.

Work on the paving is about 95% complete. There are only two spots which still need attention.

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Mr. Barrick entered the meeting at 9:30 a.m.
and Mr. Felty left.

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1181. Financial Report

The Financial Report was discussed at great length as it is one of the most difficult problems remaining for the CPC. It was agreed that Mr. McElroy and the Chairman will refine the work draft which was discussed and include it in the Minutes. (Attachment No. 236, page 664)

1182. Library (New)A. Scope

The CPC considered its tentative recommendation at the last meeting (1150-D, page 640).

After careful consideration, the CPC voted to make the tentative recommendation an official recommendation. The recommendation will include the addition of one basement wing to the present basic plan and the total estimated cost will be \$2,165,000 which is broken down as follows:

General contract	\$1,836,162.00
Elevator contract	66,360.00
Architects fees	95,126.00
Air conditioning equipment	103,000.00
Additional basement wing	64,352.00

Recommended Total- - - - \$2,165,000.00

In addition, it was agreed to recommend that all gift monies be applied to the budgeted amount of \$1,825,000 until it reaches the recommended total and any other additions to the project will be financed from additional gift monies.

1182. Library (New) (continued)B. Alternates

There are a great many alternates in the contract with J. M. Odom and a time limit for acceptance of each has been set. It is necessary to make a recommendation on the 90-day options in time for the next Board Meeting.

The CPC agreed that the first items to concentrate on are Musac, lighting, and the in-place terrazzo. It was agreed that Mr. Barrick will request the architects to have a sample solar screen set up for study as it will be necessary for a decision to be made at the meeting of the Board on August 20, 1960. Mr. Pitts has been concentrating on light fixtures and the finished exterior concrete. He has accumulated a great deal of information from the contractor and will present it to the CPC at a later date. It was agreed that the lights to be recommended should be considered from an over-all standpoint for best results.

It was agreed that Mr. Barrick will present his recommendations on the alternates to the CPC and that Mr. Pitts would be requested to meet with the CPC the next time he is in Lubbock to present his recommendations. In addition, it was agreed that it would be well to ask Mr. Pitts to be present at the next meeting of the Board of Directors in case he should be needed.

C. Site Clearance

The old Theater Workshop is scheduled to be moved on Wednesday or Thursday of this week, if the ground is dry.

D. Construction Progress

The contractor moved on to the site and started excavation on June 29, 1960, a bit ahead of schedule. However, there has been little progress to date due to the rains. A bulldozer operator cut the main electric cable which, fortunately, was disconnected. Although he does not agree, it is felt that it is the contractor's responsibility and that he should pay for replacement of the damaged cable.

E. Equipment

The Chairman reported that Mr. Janeway, in a conversation with him, stated that he would make a minimum list of his over-all equipment and space needs, with justifications.

F. Ceremonies

Mr. Vaughn has scheduled ceremonies, officially recognizing the start of the construction, at 1:30 p.m. on July 14, 1960.

1183. Major Repairs and RehabilitationsA. Reroofing 18 Temporary Buildings--\$6,464

Colonel West reported that a contract has been let to reroof the new Theater Workshop and that all material is on hand for reroofing the Dairy Barn. The two projects will complete the reroofing program, outside of some patchwork.

B. Replace Gas Line to Farm Areas--\$4,500

Bids are to be opened at 2 p.m. on July 15, 1960, in the Administration Building, Room 120.

1183. Major Repairs and Rehabilitations (continued)

C. Rehabilitate Herd and Farm Houses and Poultry Buildings--(1959-60, \$4,000)---(1960-61, \$4,000)

Colonel West reported that the carpenter work has been completed on the old house for the Farm Manager and that the painting and running of a 220 volt circuit are in progress at the present. Repairs on the house will be completed by the end of the week.

D. Repointing Stone and Brickwork and Waterproofing Exteriors of Science, Chemistry and Other Buildings (1959-60, \$41,800)---(1960-61, \$37,600)

Mr. Barrick reported that the G. A. Vittert Company has finished about 75% of the cleaning and 30% of the rest of the work. He also reported that the quality of work has been improved and the finish is now in keeping with the plans and specifications. Some of the work which had been done was torn out as unacceptable.

1184. Meats Laboratory

- A. The contractor has done the best he can in view of the weather.
- B. Mr. Vaughn has scheduled ceremonies officially recognizing the start of the construction on the afternoon of July 14, 1960.

1185. Mechanical Engineering Shops

Mr. Barrick reported that the contractor has not started masonry work since the bricklayers' strike ended and that progress is not too good at the present. Mr. Barrick is attempting to determine why progress is slow.

1186. Operating Procedures

A. Picture Molding

It was agreed that there will be no picture molding included in the specifications for any future buildings. Pictures will be hung on brackets glued to the wall or hung with dime-store nails with a picture hook. Maps and charts which need a different mounting will be hung by Building Maintenance. The method will depend on the material to be mounted and the structure of the wall.

B. Construction Guarantee

Each of the new projects is guaranteed for one year against defective materials and workmanship. In order that the College may take advantage of the guarantee, Mr. McElroy agreed to keep record of the guarantee periods and coordinate the notification for proper checking of each project.

1187. Other Items

A. Over-all Effect of Bricklayers' Strike

The bricklayers' strike ended on June 21, 1960, and the only concession made by the Association of General Contractors was that the wages would be tied to the cost of living index. The strike delayed construction on the Computer-Architecture Building, Mechanical Engineering Shops and the Women's Gymnasium.

B. Roof Leaks

The seven plus inches of rain during the past week revealed a multitude of leaks in the various buildings on the campus. Steps have been taken to have all of the leaks corrected by notification to the proper people.

1188. Parking Lots

In keeping with the instructions of the Board at the last meeting, several methods of control have been presented and equipment prices on the gates have been received. All are being studied along with methods of installation.

1189. Physical Plant and Printing Press

- A. The rains have delayed the construction progress but the contractor is pouring the concrete foundations today and seems to be making satisfactory progress.
- B. Mr. Vaughn has reported that ceremonies officially recognizing the start of the construction will be held on the afternoon of July 14, 1960.

1190. Recreation Hall

The hall is being used, although there is some minor work to be completed such as painting and the installation of the skirt.

1191. Relocation of Farm Facilities

A. Agronomy

Satisfactory Performance and Payment Bonds have been received from the Plains Steel Buildings, Inc., and the contract has been duly executed as of July 12, 1960.

B. Horticulture

Satisfactory Performance and Payment Bonds have been received from the Plains Steel Buildings, Inc., and the contract has been duly executed as of July 12, 1960.

C. Dairy

The plans and specifications will be prepared in time for presentation to the Board on August 20, 1960.

D. Water and Utilities

Mr. Robert L. Mason has agreed to assist as College Engineer with the needed engineering services for the utilities in addition to other engineering needs during the summer. With the help of Mr. Mason, Mr. Urbanovsky can now complete the plans and specifications for the water and utilities.

E. Poultry Facilities

After consideration of the letter from Dr. Durham, dated June 20, 1960, and the report on registration and semester credit hours in Poultry Husbandry courses by levels from 1953-54 to 1959-60, the CPC voted to recommend that plans be made to proceed with the poultry facilities as outlined. The letter and report are attached to and made a part of the Minutes. (Attachment No. 237, page 665)

F. Student Housing

After consideration of Dean Thomas' letter of June 30, 1960, which is attached to and made a part of the Minutes, the CPC voted to recommend that there be housing for eight students. Mr. Urbanovsky is to coordinate the efforts to locate the building and the thinking of the Animal Husbandry Department on the type of housing. (Attachment No. 238, page 666)

1192. Science Addition

No additional work has been done on the Science Addition due to the press of work on other projects. However, the developments will be completed in time for presentation to the Board on August 20, 1960.

The plans are scheduled for presentation to the CPC on or about August 10, 1960, for study.

1193. Speech Theater Workshop

The Speech Department is using the Theater Workshop and only minor matters of repairs and alterations remain to be done.

1194. Student Union

A. Plans and Specifications

The HHFA has approved the plans and specifications with minor exceptions as shown in the letter dated July 8, 1960, which is attached to and made a part of the Minutes. (Attachment No. 239, page 667)

In addition to the corrections requested by the HHFA, it will be necessary to add hose cabinets in the basement, a fire wall in the attic, exit lights and window wells with glass block inserts in the basement wall for access by the firemen from the outside in order to comply with the requirements for the Architect's Certificate. The items will be added to those requested by the HHFA.

Mr. Barrick reported that the architects have completed their part of the work and the only remaining need is to tie the cooling plans and specifications of Zumwalt and Vinther to those of the architectural firms for the Union. The process will take three days to get the plans ready to resubmit to the HHFA with all requested changes.

B. Time Schedule

After consideration, it was agreed to recommend that bids are to be received in Administration Building 120 or the Aggie Auditorium and to be opened in the Aggie Auditorium at 2 p.m. on August 18, 1960.

1195. Utilities

A. Electric

The manholes have been poured with the exception of the tops and the contractor is diligently pursuing his work. More than 50% of the conduit has been installed.

B. Tunnel and Other Utilities

Attached is the proposed progress schedule from the Anthony Company on the installation. (Attachment No. 240, page 668) The contractor is a week or ten days behind schedule due to the bad weather.

C. Water Lines and Sprinkler Systems

The Building Committee approved the CPC's recommendation to expend an amount not to exceed \$7,300 to purchase materials for water lines and sprinkler systems at the Textile Engineering and Classroom-Office Buildings.

Mr. Urbanovsky reported that the equipment has been ordered and plans are made to start digging the trenches immediately. He estimates that the work will be completed in approximately two weeks, with a bit of luck.

1195. Utilities (continued)D. Central Chilling Station

Bids are scheduled to be opened at 2 p.m. on August 18, 1960, for the equipment in the central chilling station in keeping with plans and specifications prepared by Zumwalt and Vinther, separate and apart from the Union bids. The total estimated cost, including the control panel, is \$165,000. The estimated amount assigned to the Library is \$103,000 and the amount to the Union is \$30,000. The estimated balance of \$32,000 will be assigned to either the Library, Union and/or Utilities, depending on the cost when bids are taken.

In order to complete the Financial Report, the estimated additional amount of \$32,000 will appear under Utilities.

1196. Veterinary SciencePost-mortem Room

As there is ample time for the installation, it was agreed that the plans will be presented to the Board at the first meeting after September 1, 1960.

1197. Walks, Drives, and Parking Lots

Mr. Urbanovsky reported that the rains have prevented the contractor from installing the curb, gutter and paving at the north-east corner of the Women's Gym.

1198. Women's GymA. Construction Progress

Mr. Barrick reported that the contractor now has a full crew of masons and the progress on construction has picked up again.

B. Time Extension

Mr. Barrick reported that the contractor has requested an extension of 27 days due to the bricklayers' strike. The architects have recommended 20 days as the other crafts did work during the strike. After consideration, the CPC voted to recommend acceptance of the recommendation of the architects to grant 20 days extension of time due to delay caused by the bricklayers' strike. The recommended time extension will move the completion date to September 17, 1960.

C. Equipment List

Mr. McElroy reported that the equipment is out for bids at the present time.

M. L. Pennington
Chairman

The meeting adjourned at 12:45 p.m.

Campus Planning Committee
 July 12, 1960
 Attachment No. 236
 Item No. 1181

TEXAS TECHNOLOGICAL COLLEGE
 Lubbock, Texas

REVIEW OF
 CONSTITUTIONAL BUILDING AMENDMENT FUNDS
 July 11, 1960

Funds Available June 30, 1960	\$8,378,352
Estimated Investment Income to August 1961	150,000
Total Funds August 1961 (Estimated)	\$8,528,352

<u>Building</u>	Revised Original Cost Estimate	Summary Actual, Estimated Or Original Estimate
Steam Boiler and Housing	\$ 250,000	\$ 232,796(c) ✓
Classroom-Office	1,118,000	1,044,487(c) ✓
Textile Engineering	290,000	293,206(c)
Science Addition	525,000	525,000(n)
Library (See Exhibit I F)	1,825,000	2,165,000(p) —
Physical Plant and Press (1)(2)	535,000	522,444(c)
Mechanical Engineering Shops (1)	315,000	314,180(c) ✓
Women's Gymnasium	250,000	289,086(c)
Computer-Architecture (3)	645,000	681,397(c) ✓
Speech (See Exhibit I A)	117,000	117,000(p)
Relocation of Farm Facilities (4) (See Exhibit I B)	375,000	375,000(p)
Chemical Engineering (7)	324,895	324,895(c)
Nuclear Reactor (3)(6)(7)	180,105	270,337(s)
Agricultural Plant Sciences	375,000	379,818(c)
Psychology (4)	175,000	175,000(n)
TV Station	100,000	100,000(n)
Equipment for Buildings (See Exhibit I C)	415,000	415,000(p)
Utility Extensions (5) (See Exhibit I D)	420,000	504,443(p)
Walks, Drives, Parking (5) (See Exhibit I E)	80,000	80,000(p)
Tennis Courts		10,548(c)
Deep Soil Test		3,290(c)
Total	\$ 8,315,000	\$ 8,822,927
Balance		(294,575)

- (1) \$40,000 transferred to Mechanical Engineering Shops from Physical Plant.
- (2) \$75,000 transferred to Physical Plant from Press.
- (3) \$20,000 transferred to Computer-Architecture from Chemical Engineering and Nuclear Reactor for air conditioning.
- (4) \$100,000 transferred to Psychology from Relocation of Farm Facilities.
- (5) \$270,000 transferred to Utility Extension from Walks, Drives and Parking.
- (6) Cost to exercise option to build Nuclear Reactor is shown in Summary Column.
- (7) Original appropriation of \$505,000 prorated on basis of Chemical Engineering contract.

- (c) Completed or under contract.
- (n) No definite action taken on revised original appropriation.
- (p) Partially contracted or recommended.
- (s) Under contract option but further study and recommendations required.
- () Red figure.

EXHIBIT I

TEXAS TECHNOLOGICAL COLLEGE
Lubbock, Texas

SCHEDULE OF PROJECTS TO BE COMPLETED IN STAGES

A. Speech

Appropriation	\$	\$117,000
Stage at Dairy Barn (b)	56,000	<u>56,000</u>
Balance		<u>\$ 61,000</u>

B. Relocation of Farm Facilities

Appropriation		375,000
Meats Lab (c)	217,263	
Dirt Fill (c)	8,000	
Moving Feed Mill (c)	498	
Agronomy and Horticulture Metal Buildings (c)	24,509	
Dairy Facilities (r)	75,000	<u>325,270</u>
Balance		<u>\$ 49,730</u>

C. Equipment for Buildings

Appropriation		415,000
Textile Engineering Building (c)	7,807	
Classroom-Office Building (c)	63,515	
Women's Gymnasium (c)	13,436	
Computer-Architecture (c)	32,849	<u>117,607</u>
Balance		<u>\$297,393</u>

D. Utility Extensions

Appropriation		420,000
Classroom-Office Building (c)	1,290	
Farm Residences Water Lines (c)	5,207	
Air Conditioning Survey (c)	7,500	
Agricultural Plant Sciences (c)	5,355	
Mechanical Engineering Shops (c)	6,783	
Telephone Conduit in West Engineering Area (c)	340	
Storm Sewer to 19th and College (b)	6,000	
6" Water Tap, 4" Meter (c)	1,300	
Switchgear and Expansion Joints (c)	38,248	
Electric Extension (c)	88,457	
Tunnel Extension (c)	188,557	
Central Chilling Station Space (b)	78,992	
Water Lines and Sprinklers (b)	7,300	
Sewer Reroute at Library (r)	1,970	
Air Conditioning Service to Library (r)	35,144	
Central Chilling Station Unallocated Equipment (r)	32,000	<u>504,443</u>
Balance		<u>(\$84,443)</u>

() Red figure.

EXHIBIT I - Page 2

SCHEDULE OF PROJECTS TO BE COMPLETED IN STAGES (continued)

E. Walks, Drives and Parking Areas

Appropriation		\$ 80,000
West 14th Street, North of		
Textile (c)	\$ 7,363	
Boston (Engineers' Drive) (c)	2,702	
Women's Gymnasium Drive (c)	3,718	<u>13,783</u>
Balance		<u>\$ 66,217</u>

F. Library

Appropriation		1,825,000
General Contract (c)	1,836,162	
Elevator Contract (c)	66,360	
Architects' Fees (c)	95,126	
Air Conditioning Equipment (b)(e)	103,000	
Finish North or South Basement (r)	64,352	<u>2,165,000</u>
Balance		<u>(\$ 340,000)</u>

- (b) Approved by Board but not contracted.
(c) Completed or under contract.
(r) Recommended by Campus Planning Committee.
(e) Estimated cost.
() Red figure.

Central Chilling
Lib Budget 1,03,000
Utilities 78,992
unallocated equip 32,000
union 30,000
air cond. serv. 243,992
to Lib 35,144
279,138

TEXAS TECHNOLOGICAL COLLEGE
Lubbock, Texas

STUDY OF
POSSIBLE ALLOCATION OF CONSTITUTIONAL BUILDING AMENDMENT FUNDS

Available Balance <u>IF</u> :		Available Balance
Priority list is completed as contracted, recommended or originally estimated		\$(294,575)
Unstarted projects are deleted (1)	\$800,000	505,425
Nuclear Reactor option is declined	270,337	775,762
Science Building estimate is reinstated	(525,000)	250,762
Psychology is reinstated and increased to estimated needs	(375,000)	(124,238)
Speech balance is transferred to available balance	61,000	(63,238)
Additional equipment needs are added (2)	(100,000)	(163,238)
Nuclear Reactor is built after option date (3)	(300,000)	(463,238)

- 525 175
- (1) Science, Psychology, and TV Station Buildings.
 - (2) Library and Agricultural Plant Sciences equipment needs will cause equipment cost to exceed original estimate.
 - (3) Estimated cost.
- () Red figure.

Campus Planning Committee
Attachment No. 237
July 12, 1960
Item 1191E

TEXAS TECHNOLOGICAL COLLEGE
School of Agriculture
Lubbock, Texas

Department of Animal Husbandry

June 20, 1960

Mr. M. L. Pennington
Vice President and Comptroller
Campus

Re: No. 1132-D - Poultry Facilities

Dear Mr. Pennington:

Regarding justification for the
poultry facilities

It is difficult to look at this from a strictly dollars and cents point of view. Education simply can't be measured this way. The embarrassment at having to constantly "borrow" material and facilities is not measurable. Nor is the degree of interest that students may, or may not, express in a course where minimum facilities do not exist, measurably.

Even so, we will attempt to show the amount of money expended. It has been necessary to take the students to neighboring poultry farms for classwork. This entails a cost of approximately \$100 per year for mileage. Material to use in contest work also entails a cost of from \$50 to \$100 per year. Some of the material is borrowed, but this is poor business. The instructor has, likewise, furnished considerable material from his personal flocks. It is difficult to assess a value for "use" of animals, but a conservative estimate is \$200 per year.

The sum total would be about \$400 per year as well as we can estimate it. Again, I would like to emphasize that the money considerations in this case do not measure the value of the item. It is not possible to do research in other people's flocks. We feel that without some going research, our teaching is bound to stagnate.

Our records show that the poultry section, while it was in operation, brought in a considerable income. The gross income for the year 1957-58, which was the last year it was operated, was \$4,015.94. Liquidation of the livestock at the end of that year brought \$1,520.00 in cash. The income should, in some measure, offset the expense of the operation.

We cannot measure the importance of the facility. We strongly feel that it is vital for an active educational program in poultry husbandry.

Sincerely yours,

/s/ Ralph M. Durham

Ralph M. Durham, Head
Animal Husbandry Department

RMD:pc(d)
Enclosure

TEXAS TECHNOLOGICAL COLLEGE
Office of the Registrar

July 1, 1960

REGISTRATION AND SEMESTER CREDIT HOURS IN POULTRY HUSBANDRY COURSES BY LEVELS - 1953-54 to 1959-60

		Fall		Spring		1st. S.S.		2nd. S.S.		Total	
		Reg.	Cr.Hr.	Reg.	Cr.Hr.	Reg.	Cr.Hr.	Reg.	Cr.Hr.	Reg.	Cr.Hr.
1953-54	Lower	64	192	71	213	0	0	0	0	135	405
	Upper	9	27	37	111	0	0	0	0	46	138
	Total	<u>73</u>	<u>219</u>	<u>108</u>	<u>324</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>181</u>	<u>543</u>
1954-55	Lower	38	114	63	189	0	0	0	0	101	303
	Upper	9	27	27	81	14	42	0	0	50	150
	Total	<u>47</u>	<u>141</u>	<u>90</u>	<u>270</u>	<u>14</u>	<u>42</u>	<u>0</u>	<u>0</u>	<u>151</u>	<u>453</u>
1955-56	Lower	45	135	49	147	0	0	0	0	94	282
	Upper	10	30	21	63	0	0	0	0	31	93
	Total	<u>55</u>	<u>165</u>	<u>70</u>	<u>210</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>125</u>	<u>375</u>
1956-57	Lower	43	129	55	165	0	0	0	0	98	294
	Upper	22	66	35	105	0	0	0	0	57	171
	Total	<u>65</u>	<u>195</u>	<u>90</u>	<u>270</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>155</u>	<u>465</u>
1957-58	Lower	35	105	37	111	0	0	0	0	72	216
	Upper	16	48	9	27	0	0	0	0	25	75
	Total	<u>51</u>	<u>153</u>	<u>46</u>	<u>138</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>97</u>	<u>291</u>
1958-59	Lower	32	96	31	93	0	0	0	0	63	189
	Upper	12	36	10	30	0	0	0	0	22	66
	Total	<u>44</u>	<u>132</u>	<u>41</u>	<u>123</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>85</u>	<u>255</u>
1959-60	Lower	32	96	29	87	0	0	*	*	61	183
	Upper	-	-	15	45	-	-	-	-	15	45
	Total	<u>32</u>	<u>96</u>	<u>44</u>	<u>132</u>	<u>0</u>	<u>0</u>	<u>-</u>	<u>-</u>	<u>76</u>	<u>228</u>

* 2nd Summer session not complete but no course scheduled.

EC(a)

Campus Planning Committee
July 12, 1960
Attachment No. 238
Item 1191F

TEXAS TECHNOLOGICAL COLLEGE
School of Agriculture
Lubbock, Texas

Office of the Dean

June 30, 1960

Mr. M. L. Pennington
Vice President and Comptroller
Campus

Dear Mr. Pennington:

In accordance with a request of the Campus Planning Committee, I am submitting information concerning the need for student housing at the new animal husbandry facilities. We have studied this situation in detail here and at a number of other schools in the South, West, and Midwest. Virtually all the agricultural colleges with which we are familiar house students in conjunction with the animal facilities.

Experience has shown that an adequate educational program using animals can be done most effectively through the employment of college students - students who can provide a service to the college (for which they are personally compensated) and at the same time gain valuable experience necessary to a complete educational program.

Student housing is necessary adjacent to the animal facilities because of the highly irregular work schedule required, the efficient operation of the animal husbandry program, and the complications arising from off-campus or dormitory housing. Students who work get very dirty and at such a time as to cause problems in routine dormitory operation.

At the present, we are housing fifteen students adjacent to the facilities and three married students in individual houses. In all, we have taken steps to reduce college housing both for permanent and temporary personnel. However, this reduction can proceed only to the point where our efficiency of operation is threatened.

It is our policy to limit the number of hours a student may work. Because of this, we use more boys than we would normally need if full-time employees were available. We have no disciplinary problems in animal husbandry housing. If such problems arise, they will, of course, result in the immediate dismissal of the student concerned. Records will show that boys living in our facilities have, on the average, substantially better grade averages than boys living elsewhere. We feel that our environment, insofar as scholastic effort is concerned, is quite good.

We have recently inaugurated a number of research projects, each of which is being conducted by an undergraduate. The use of students at the undergraduate level in this research has been effective and far cheaper in cost to the College than would be research conducted in most other ways.

To summarize, our minimum needs are as follows:

1. Cattle feeding. (Four or five boys) We feed at 5:00 A.M. and 5:00 P.M. All of the feed is weighed and for experimental work each lot is fed separately. It is utterly impossible for one going to school to do this work living in a dormitory where mealtime would coincide with cattle feeding time. It is also essential that the boys be on call for problems which arise from time to time.

Mr. M. L. Pennington

Page 2

June 30, 1960

2. Dairy cattle. (Seven to nine boys) When we are milking three times a day, as we have been this past year, our boys milk at 4:00 A.M., 12 Noon, and 6:00 P.M. Thus, it would be impractical for boys living in the dormitory to schedule their milking duties since these duties coincide with dormitory mealtime.
3. Other. We plan to continue to use at least one boy in the care of the sheep and lamb feeding experiments. One boy will also be required in our poultry facilities.

Our immediate problem will be to provide the housing facilities across the freeway adjacent to the animal husbandry facilities which will take care of eight students to be used in the dairy operation and the care of poultry. When and if we move the beef cattle facilities and the sheep facilities, we will need to expand this housing to a total of fifteen to sixteen students, but immediate plans should be for just the eight students mentioned.

If you need additional information, please let us know.

Very truly yours,

/s/ Gerald W. Thomas

Gerald W. Thomas
Dean of Agriculture

GWT:cld(d)

cc: Dr. Ralph Durham

C
O
P
Y

Campus Planning Committee
July 12, 1960
Attachment No. 239
Item 1194A

HOUSING AND HOME FINANCE AGENCY
Office of the Regional Administrator
300 West Vickery Boulevard
Fort Worth 4, Texas

REGION V

July 8, 1960

Re: Tex. CH-109(S)
Texas Technological College
Student Union Addition

Mr. M. L. Pennington
Vice President and Comptroller
Texas Technological College
Lubbock, Texas

Dear Mr. Pennington:

The plans and specifications for your above project are generally in good order. However, the following items need attention before bids are received:

1. Paragraph three of the Advertisement For Bids should be revised to read "in accordance with Public Law No. 372 of the Eighty-sixth Congress, approved September 23, 1959" instead of "Public Law No. 403 of the Seventy-fourth Congress, approved August 30, 1935."
2. The amounts of insurance coverage for bodily insurance as shown in Exhibit A appears to be low. It is suggested that you give consideration to increasing such coverage to \$100,000/\$300,000 for both contractor and subcontractors.
3. The Amendment to General Conditions should be revised to omit "and Section 40" since a sign should be erected at the project site.

Also, a detail of the sign should be included either on the plans or in the specifications.
4. The third paragraph, "Note," on page I-1 of the Special Conditions should be deleted.
5. The "Allowance" paragraph on page I-6 of the Special Conditions should be deleted.
6. Section XXII, Metal Lockers, technical specifications calls for "Berger" lockers as manufactured by Republic Steel Corporation. Lockers must be built-in to be eligible since movable furniture and equipment is ineligible.
7. Paragraph four, "Adhesive", on page 1 of Section XXII should be revised to delete the words "no substitution will be accepted" in order not to conflict with Section 27 of the General Conditions.
8. The paragraph entitled "Wiring, Piping and Oil" on page 5 of Section XXXVI of the technical specifications and the one entitled "Elevator" on page E-4 leave a gap between the disconnect and the control board. Whichever is in error should be corrected.

Mr. M. L. Pennington -2 July 8, 1960

9. The second paragraph, General, on page 1 of Section ETB-US provides that the trenching ends 5' from the building. Since this is 2' short of plumbers pipe we wonder whether or not this is intentional.
10. The specifications need to be revised to clarify the point of connection between the plumbers work and water service line.
11. The plans should be completed to include details for a plaque as stipulated on page XI-3 of the specifications.
12. Drawing M-7 should be completed to include material of range hood and ducts and gage of stainless steel ducts for dishwasher and bakers hood.
13. Architect's Certificate is needed.

When the above matters have been remedied, corrected and supplemental documents should be sent to us for further review and approval.

Subject to the understanding that these items will be taken care of before documents are released to prospective bidders, we have no objection to your proceeding with the advertising for bids. Please check with Mr. Sherman when establishing a bid opening date. Also, let us know the exact date, hour and place bids will be received.

Copies of any addenda issued between now and the bid opening should be sent to this office and to Mr. Sherman.

Very truly yours,

Henry G. Creel, Jr.
Regional Director
Community Facilities

/s/ Travis Wm. Miller ^{EEB}
by Travis Wm. Miller
Deputy Regional Director

cc: Atcheson, Atkinson & Cartwright

Campus Planning Committee
July 12, 1960
Attachment No. 240
Item No. 1195B

Lubbock, Texas

July 13, 1960

TEXAS TECHNOLOGICAL COLLEGE - TUNNEL PROJECT

PROPOSED PROGRESS SCHEDULE

<u>Job No.</u>	<u>Starting Date</u>	<u>Completion Date</u>
<u>Job No. 4-</u>		
Excavation	June 20	June 27
Concrete (bottom & sides)	June 27	July 5
Cut No. 4		July 7
 <u>Job No. 5-</u>		
Excavation	June 28	July 15
Concrete (bottom & sides)	July 7	Aug. 5
Cut No. 3		July 15
Cut No. 1 (to be made after Cut No. 3 is open for traffic)		July 20
Water to Meats Lab	July 15	July 20
 <u>Job No. 3A, 3B & 6</u>		
Excavation	July 18	Aug. 1
Concrete	July 25	Aug. 10
Cut No. 2		Aug. 1
Water and Sewer in Boston	July 21	July 22
Sewer in Flint	July 25	July 26

Tops will be installed on tunnels across roadways as quickly as possible.
Approximately five (5) days after cuts.

Tops will be installed on balance of tunnels following completion of piping
and insulation.

ANTHONY COMPANY

/s/ W. R. Anthony

W. R. Anthony

TEXAS TECHNOLOGICAL COLLEGE
Lubbock, Texas

MINUTES OF THE CAMPUS PLANNING COMMITTEE

Meeting No. 83 August 16, 1960

A meeting of the Campus Planning Committee was held at 8:30 a.m. on Tuesday, August 16, 1960, in Room 120 of the Administration Building. Members present were Mr. Nolan E. Barrick, Colonel C. P. West, and Chairman M. L. Pennington. In addition, Mr. D. M. McElroy was present.

1199. Approval of Minutes

On motion by Colonel West, seconded by Mr. Barrick, the Minutes of Meeting No. 82 were approved with a correction to the Library completion date as shown in Item No. 1150-A, page 640. The completion date should be changed from September 13, 1962 to September 13, 1961.

1200. President's Approval of Minutes

The Chairman reported that the President approved the Minutes of Meetings Nos. 80 and 81 on July 13, 1960.

1201. Agricultural Plant Sciences Building

A. Construction Progress

Mr. Barrick reported that construction progress seems to be satisfactory as the contractor is moving along nicely.

B. Solar Screen

Mr. Barrick reported that the architects seemed to have jumped the gun on the installation of the sample solar screen and the risk is theirs. The Acme Brick Company has contributed the tile and Mr. Barrick has requested the amount of the labor costs. The architects were asked to get a range of colors on a light colored sample but they did not quite make it. The sample is too dark and needs lighter colored tile.

C. Red Brick on South Side of Building

The plans and specifications call for red brick on the south side of the building behind the solar screen. The Project Architects are unanimous in that it is desirable but the members of the CPC had not concurred entirely as there were some reservations. However, it would be reasonable to assume that the architects did not know that the brick was questioned by the College as no request to do differently was made. Mr. Barrick approved the samples of red brick, presented by the architects, prior to the start of the installation.

1202. Air Conditioning (Registrar's Office)

Mr. Barrick recommended the final acceptance date of April 28, 1960, as the items holding up approval were of a minor nature and the system has been in operation since the date recommended. Final payment was delayed to insure the completion of the work. Mr. Barrick expressed the opinion that the acceptance date should be from the time that the air conditioning was used as the other work did not affect the function of the installation.

The CPC voted to recommend April 28, 1960, as the final acceptance date.

1203. Boiler and HousingA. Boiler

Mr. Barrick reported that Martyn Brothers had not replied to several letters from him until August 12, 1960. At that time, they wrote and stated that they are taking the recommended corrective measures to remove the vibration from the draft fan and requested partial payment of the withheld balance. Ten per cent will be withheld and no additional payment will be made until the work is completed. Final acceptance will be recommended when the job is complete and not until then. A copy of the letter from Martyn Brothers, Inc., dated August 12, 1960, is attached to and made a part of the Minutes. (Attachment No. 241, page 680)

B. Housing

The July rains revealed a number of leaks in the roof. The contractor has attempted to make repairs and feels that the roof will no longer leak. The contractor has not received final payment and the final acceptance date has not been established. The sum of \$500 is being withheld.

1204. Central Chilling Station

Bids are to be opened at 2 p.m. on Thursday, August 18, 1960, in the Aggie Auditorium and a recommendation is to be made to the Building Committee for a contract award at 9:30 a.m. on Friday, August 19, 1960.

1205. Chemical EngineeringConstruction Progress

Mr. Barrick reported that construction progress is satisfactory, although steel deliveries have been slow.

1206. Classroom-Office BuildingA. Progress Report on Punch List1. Chalkboards

Mr. Barrick reported that he does not believe the finish is in keeping with the original sample and, therefore, has requested the painter to redo the chalkboards. It is hoped that the painting will correct the problem. Mr. Barrick was requested to ask the painter to do the work before the start of school for the fall semester.

2. Windows

The manufacturer's representative made minor adjustments and believes that the job is now satisfactory. On the other hand, the contractor, S. R. Duncan, has apparently done nothing that he has been requested to do. He has not recalked the windows and has not repaired the mullions to assure protection against the leakage of sand which was experienced last spring.

Mr. Barrick stated that he had talked with Mr. Turner Kimmel, who has attempted to contact the Company. He doubts that satisfactory action will come from the contractor as he has gone out of business. The only protection the College now has is the one year's guarantee under the Performance Bond.

Mr. Barrick was requested to pull all of the facts together and the Chairman is to write Mr. Warlick Carr, attorney for the contractor, and set out specifically the items which need to be done, in order that they may be of record before the expiration of the year's guarantee.

1206. Classroom-Office Building (continued)3. Air Conditioning

The Maintenance Department has been experimenting with some stainless steel strips installed in the air intake to prevent the passage of dust and it looks as if the experiment may work. All members of the CPC were requested to take a look at the sample installation.

Mr. Barrick was asked to notify the Project Architect that the CPC specifically requests him to lend his very best efforts and talents to check the installation in an attempt to solve the dust problem and that he continue his efforts until a proper solution is found.

4. Air Intake Screens

Colonel West reported that Mr. Downing has developed a catch that seems to prevent the air intake screens from falling out.

5. Locks

Colonel West reported that some of the pins have been cut too short and a check is being made to determine the responsibility in order to correct the deficiency. The other items are being checked also and the Project Architect is to follow-up on each.

B. Roof Leaks

Colonel West reported that the Texas Roofing Company has repaired the roof by putting mastic around and over the flashing as well as around one of the fresh air intakes. He thinks that the repairs will correct the deficiency but there has not been a rain to make sure. The contractor will be required to repair the damage to the inside plaster.

C. Directories

On the recommendation of Mr. McElroy, the CPC voted to purchase four 72" x 30" aluminum framed bulletin boards, Style K-30, as manufactured by the A. C. Davenport and Son, Inc., or equal. Two of the units will be available for the Business Administration Department Heads, one for the Dean of Business Administration, and one for the English Department. The estimated cost is \$660 and it will be paid from the Special Projects Account.

1207. Computer-ArchitectureA. Construction Progress

Mr. Barrick reported that the construction progress has been very good of late. He thinks that the project will be completed by the first week of December.

B. Time Extension

The contractor filed a request for a time extension of 27 days due to the bricklayers' strike. It is the opinion of the CPC that the contractor did a considerable amount of work during the time when there were no pickets. He could do very little work while there were pickets but other work was going on during much of the time of the strike. It was agreed that the Project Architects will be requested for their recommendation.

1207. Computer-Architecture (continued)C. Equipment

1. Mr. McElroy reported that the equipment for the Department of Architecture and Allied Arts is practically all on order at the present time.
2. With the loss of the Bell Laboratory computer, it looks as if it may be necessary to revise the list and Mr. McElroy was requested to coordinate the effort and to make a recommendation to the CPC in the future.

1208. Faculty Dining Room in the Union

Mr. Barrick is of the opinion that the wishes of the Faculty Committee were included in the plans and specifications for the Union. Most of their problems seem to be more operational than physical.

1209. Fanning, J. R.

Mr. Urbanovsky reported that Mr. Gosdin called Mr. Fanning and talked to him in person regarding the paving of the drive to Men's 7 & 8. Mr. Fanning did not know that the work was not done at the time the parking lots were sealed. He promised to do the work within the next week or ten days, just as soon as he gets his equipment back in town.

1210. Journalism Basement

The recommendation from Mr. Garets for the remodeling of the basement has been received but the CPC is of the opinion that the recommendation will not solve the entire problem, particularly the housing of Public Information. Since the funds for the project will not be available until September 1, 1961, if the Legislature approves the request, it was agreed to wait until it is known whether or not the funds will be available before final plans are made.

1211. LibraryA. Construction Progress

Mr. Barrick reported that the progress is excellent. The excavation is complete, fifty per cent of the footings have been poured, one-third of the basement slab has been poured, and the contractor is setting forms for the east basement wall.

B. Time Extension Request

The contractor requested three days extension of time due to the rains on July 5, 6, and 7, 1960. The Project Architects have recommended the extension. After consideration, the CPC voted to recommend the requested extension and report it to the Building Committee.

C. Damaged Cable

Mr. Barrick reported that a stand-off has been reached with the contractor. However, there seems to have been some beneficial results due to the fact that the contractor was challenged and knows that he is being observed carefully. He has been most cooperative since the challenge but there is no clean-cut decision on the cable to date. The Project Architects have been unable to secure enough facts to make a recommendation as there are supporting facts on each side. Mr. Zumwalt reported that he did not show the line on the plans as it was not part of the contract being bid and that he does not normally show such items.

1211. Library (continued)D. Solar Screen Sample

The solar screen sample is to be erected in time for consideration by the CPC at the meeting on Wednesday, August 17, 1960.

E. Lights

A recommendation must be made to the Building Committee at the meeting on Friday, August 19, 1960, and Mr. Pitts has accumulated a great deal of information. The item is to be considered at the meeting of the CPC on Wednesday, August 17, 1960.

F. Scope

As the President has approved the recommendation, the CPC voted to present its recommendation of Item No. 1182-A, page 658, to the Building Committee. The recommendation is as follows:

"After careful consideration, the CPC voted to make the tentative recommendation an official recommendation. The recommendation will include the addition of one basement wing to the present basic plan and the total estimated cost will be \$2,165,000 which is broken down as follows:

General contract	\$1,836,162.00
Elevator contract	66,360.00
Architects' fees	95,126.00
Air conditioning equipment	103,000.00
Additional basement wing	<u>64,352.00</u>

Recommended Total- - - - \$2,165,000.00

"In addition, it was agreed to recommend that all gift monies be applied to the budgeted amount of \$1,825,000 until it reaches the recommended total and any other additions to the projects will be financed from additional gift monies."

G. Alternates

A report must be made to the Building Committee on Friday, August 19, 1960, for action on the 90-day alternates listed in the contract. It was agreed that there will be a meeting of the Campus Planning Committee at 9 a.m. on August 17, 1960, to consider the detailed list prepared by Mr. Pitts and Mr. Barrick and the alternates as shown in the contract.

H. Equipment

The total request for carrels, stacks, library tables and chairs, and other items of equipment amounts to a minimum of approximately \$170,000. As the amount exceeds that budgeted for equipment, Mr. McElroy was requested to study the request and tie it to the amount of space to be provided in the recommended scope for the building, taking into consideration the use of the free standing stacks in the present Library and other available equipment. Mr. Janeway's request is attached to and made a part of the Minutes. (Attachment No. 242, page 681)

I. Request for Dirt Hauling Extra

A request has been received from the Bill Hood Construction Company, subcontractor for dirt hauling, for an extra in the amount of 5¢ per cubic yard for hauling excavated material due to the fact that the haul has been longer than that specified. The plans and specifications provided for a haul of one mile. The distance from the Library excavation to the new site for Farm Facilities is 1.2 miles. The request is unusual but the distance is farther than the contract stipulated. As the lump sum amount from the contractor has yet to be received, the CPC voted to withhold a recommendation until the information is available.

1212. Married Student Housing

Mr. McElroy reported that the information has been tabulated but a bit of additional time is needed for interpretation. The material reveals that:

1. There is not as much selection in apartments available for students as originally thought.
2. Married students are paying a pretty good amount of money for small quarters.
3. There are a lot more using open gas heaters than anticipated.
4. It looks as if there may be more need for housing than was anticipated.

The formal report is to be completed in time for study by the CPC, with a recommendation to be made to the Board of Directors at the meeting on September 17, 1960.

- - - - -

Mr. Urbanovsky entered the meeting at 10:25 a.m.

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1213. Music Building

Difficulty has been experienced due to the transmission of sound through the air conditioning vents in the west upstairs room of the Music Building. The proper solution is difficult to obtain and the problem is still under study.

1214. Major Repairs and RehabilitationsA. Reroofing 18 Temporary Buildings--\$6,464

Colonel West reported that the over-all repairs are 98% complete. The Dairy Barn is the last and it will be completed this week.

B. Replace Gas Line to Farm Area--\$4,500

Colonel West reported that the project is approximately 90% complete and will be finished this week.

C. Rehabilitate Herd and Farm Houses and Poultry Buildings
(1959-60, \$4,000 --- 1960-61, \$4,000)

Colonel West reported that repairs to the former Farm Manager's house have been completed, inside and out, with a bit of painting to be done later.

The windows for the herdsman's house are on order and will be installed during the first week in September when the house is temporarily vacated. The installation of the windows will complete the repairs and renovation except for the Poultry Houses which must come later.

D. Repointing Stone and Brickwork and Waterproofing Exteriors
of Science, Chemistry and Other Buildings
(1959-60, \$41,800 --- 1960-61, \$37,600)

Mr. Barrick reported that all of the basic cleaning is complete. The repointing is probably 60 to 65% finished and there has been virtually no waterproofing done as yet. The quality of the work is still good.

1214. Major Repairs and Rehabilitations (continued)E. Chris Paschen Corporation

The Chairman reported, for the records, that the file pertaining to the collection on the Bid Bond from the Chris Paschen Corporation has been forwarded to the Attorney General for whatever action he deems appropriate, in keeping with the approval of the President and the Chairman of the Board.

1215. Meats LaboratoryA. Construction Progress

Mr. Barrick reported that progress is satisfactory and the project is coming out of the ground. The beams and footings have been poured, the fill for the slabs is in place and form work for the columns has started. The project seems to be on schedule.

B. Time Extension

The contractor requested an extension of 7 days due to the fact that he was delayed for that amount of time by the owner in clearing the site. The Project Architects have recommended the Extension.

The CPC voted to recommend the extension of 7 days to the Building Committee.

1216. Mechanical Engineering ShopsA. Construction Progress

Mr. Barrick reported that the contractor has been rolling since the last meeting. He moved in a good crew and has been making fine progress. Most of the brickwork is up and he is getting ready to add the roof deck. He was delayed due to the bricklayers' strike as it stopped him cold. Some of the walls are masonry bearing and he could do nothing. He is probably one month behind.

B. Equipment

The CPC considered the equipment list from Mr. L. J. Powers, under the date of July 15, 1960, in the amount of \$33,855. The original budgeted amount for equipment is \$10,000. (Attachment No. 243, p.682)

Mr. Powers presented the best documented request for equipment received to date. Pictures, the use and justifications were presented for each piece of equipment. The question was raised as to whether or not full use has been made of the Texas Surplus Property services. It was recommended that exploration of the possibilities of securing equipment from surplus be made before a recommendation is made.

1217. Operating ProceduresA. Guarantee Dates

Mr. McElroy reported that he is keeping a current file on the expiration of the year's guarantee against defective materials and workmanship on each project. He checks the file each month for expiration dates and will notify all personnel involved in ample time to make the necessary inspections and reports. The first check to be made is on the Textile Engineering Building this fall.

1217. Operating Procedures (continued)B. Campus Mail Service

The CPC voted to request the U. S. Post Office Department for additional services as outlined in the report prepared by Mr. McElroy, Mr. Taylor and Mr. Cummings. (Attachment No. 212, page 598)

The request probably should be filed by the President, if he will, in order to secure the maximum effect. If the request is approved and it is possible to do so, the request for funds to the Legislature to enlarge the sub post office should be withdrawn.

C. Procedure for Requests of Time Extensions

Due to the fact that some of the contractors prefer to file extensions for time as they occur, the CPC voted to amend its operating procedures to make recommendations on requests each month to the Building Committee. The procedure will allow the time extensions to be maintained on a somewhat current basis.

1218. Other ItemsA. Roof Leaks

The heavy rains during the early part of July revealed a large number of roof leaks in various buildings on the campus. Colonel West reported that the Texas Roofing Company has made repairs to the Men's Gym, Textile Engineering Building and Classroom-Office Building. The Lydick Roofing Company has made repairs to the Science Building, the Ajax Roofing Company has made the necessary repairs to the Library and is waiting for another good rain to see how the repairs work out. The roof on the old gymnasium has been patched and steps have been taken to correct all other leaks.

B. Building Directories

It was agreed that building directories are desirable but attempts over a good period of time to develop an over-all policy revealed that it is practically impossible. The CPC agreed that there is little use to develop an over-all policy until there is some agency, perhaps such as Public Information, to keep the directories current. Each building will be handled individually in the future. It was pointed out that each professor gives his students his office number, and the names of professors and the office hours appear on each office door.

1219. Physical Plant Facilities and Printing PressA. Construction Progress Report

Mr. Barrick reported that construction progress is very good. The footings and beams are in place and the fill for the slab floor is complete.

1220. Parking LotsA. Controlled Lot

Mr. Urbanovsky reported that the gates have been ordered and if they have not arrived by August 25, 1960, he will write the manufacturer. The gates are to be installed by the Maintenance Department as Mr. Mason has checked the mechanical and electrical plans and feels that the installation will be a minor job and a substantial amount can be saved.

1220. Parking Lots (continued)B. Dirt Lots South of Dairy Barns

Mr. Urbanovsky reported that the lot has been graded and they are ready to install the posts. The lot will be ready in time for the fall semester.

1221. Paving

Mr. Urbanovsky reported that the contractor, Kerr Paving Company of Lubbock, paved 14th Street from the Veterinary Science Building to Flint Street last week and that the street is now in good condition. The same work has been done on the street near the Textile Engineering Building.

1222. Recreation Hall

Colonel West reported that the few items remaining to be done have been completed.

1223. Relocation of Farm FacilitiesA. AgronomyProgress Report

The metal frame has been completed, the siding is up on the south side and the contractor seems to be making good progress.

B. HorticultureConstruction Progress Report

The slab is poured, the frame is up and the siding and roof have been installed. Some items need correction, such as the slab which doesn't quite fit the building.

C. Dairy

Mr. Barrick reported that the plans and specifications will be in shape for consideration by the Campus Planning Committee at the meeting on August 17, 1960. He reported that some delays have been experienced due to the necessity of securing approval from the Health Department on the plans and specifications. A recommendation on the project is to be made to the Building Committee on Friday, August 19, 1960, including a recommendation to advertise for bids and award a contract.

D. Poultry Facilities

At the meeting on May 29, 1960, the Building Committee voted to defer action until the report can be prepared and presented, giving in detail the present arrangement for teaching poultry and showing the cost and explaining why it should be continued. Also, the Building Committee asked for a complete justification of the new facilities requested, with the stipulation that the justification show the number of poultry majors, the number of students taking poultry courses and how many and what sort of chickens each house would handle.

The information has appeared in the CPC Minutes from time to time since the action of the Building Committee. After reconsideration, the CPC feels that the information has been submitted and recommends the consideration of final plans and specifications for the poultry facilities by the Building Committee.

1223. Relocation of Farm Facilities (continued)

E. Student Housing

As requested, Mr. Urbanovsky studied the proper location of the housing and recommended that it be located adjacent to the dairy facilities to the south. After consideration, the CPC voted to accept Mr. Urbanovsky's recommendation with the request that Mr. Barrick make the required preliminary studies to house the eight students requested by the School of Agriculture.

1224. Science Building

It was agreed that the CPC will review the sketches and plans at the meeting on August 17, 1960.

1225. Speech Theater Workshop

Colonel West reported that the remaining few items have been completed.

1226. Student Union

Bids are to be opened at 2 p.m. on August 18, 1960, in the Aggie Auditorium and a recommendation for award is to be made to the Building Committee at the meeting on Friday, August 19, 1960, at 9:30 a.m.

1227. Utilities

A. Water Lines and Sprinkler Systems

Mr. Urbanovsky reported that all of the materials have been ordered and delivered with the exception of the pipe for the installation of water lines and sprinkler systems at the Textile Engineering and Classroom-Office Buildings. As soon as the pipe arrives, the installation will begin.

B. Tunnel and Other Utilities (Anthony Company of Lubbock)

Mr. Barrick reported that progress has been considerably slower than he had hoped. The rains delayed the progress during the early stages of construction and he doubted that the work will be completed by the time the fall semester begins. Due to the fact that there is so much work to be done and it is needed when school begins, Mr. Barrick was requested to ask the general and subcontractors to make all possible speed in order that the facilities may be ready for the start of the school term.

C. Electrical Installation (Nelson Electric Company of Lubbock)

All the duct work is completed and all the cable has been pulled. The contractor is waiting for the switchgear, which was bought by the College and scheduled for delivery on July 22, 1960. Allis-Chalmers has promised to deliver the main switchgear for installation in the station behind the Meats Laboratory and that which goes into the underground system on August 19, 1960. G & W has promised delivery of the manhole switches, which were purchased by the College and to be delivered on July 22, 1960 also, by August 22, 1960. Mr. Barrick has notified Nelson Electric Company of Dallas that they are in default and the Bonding Agent has been notified also. The equipment can be in service by the start of the school, if it arrives on the schedule now promised.

1228. Walks, Drives, Parking Lots

Mr. Urbanovsky reported that the work on the curb, gutter and paving at the northeast corner of the Women's Gymnasium started today.

1229. Women's GymA. Construction Progress Report

Construction progress is satisfactory and it is estimated that the completion date will be the first of October.

B. Time Extension Request

The contractor has requested a 27 day extension due to the bricklayers' strike and the CPC has recommended 20 days.

It was agreed to make the recommendation to the Building Committee.

C. Equipment

Mr. McElroy reported that all of the equipment requested is now on order.

M. L. Pennington
Chairman

The meeting adjourned at 12:55 p.m. The next meeting is to be held at 9:00 a.m. in Room 120 of the Administration Building on August 17, 1960, to consider items on the Library, the Dairy Facilities and the Science Building.

Campus Planning Committee
August 16, 1960
Attachment No. 241
Item 1203-A

MARTYN BROTHERS, INC.

MECHANICAL CONTRACTORS

Henry J. Martyn
President
L. B. Owen
Vice President
John R. Thomasson, Jr.
Secretary-Treasurer

Phone RI 8-9505
1000 St. Louis Street
Dallas 2, Texas

August 12, 1960

Texas Technological College
Office of the Supervising Architect
Lubbock, Texas

Attn: Mr. Nolan E. Barrick

Re: Steam Generating System
Texas Tech College
Lubbock, Texas

Gentlemen:

Reference is made to our recent telephone conversation.

We again wish to apologize for not answering your letters sooner; however, we have only recently come to a solution to the problem of which you are already aware.

Mr. James Walker has been instructed to proceed with the installation of the structural column, beam and knee braces as well as the concrete footing and pier to further strengthen the induced draft fan floor slab.

We request that a partial payment of some FIFTEEN THOUSAND DOLLARS, (\$15,000.00) be made to us at your earliest convenience to apply against our contract for the installation of the new boiler.

The Bailey Meter Company field engineer has already used up the allotted time for testing and adjusting the boiler controls and instruments, as specified. The final adjustments could not be made because the boiler could not be brought up to full capacity at the time the Bailey engineer was at the site.

This condition was caused by delays over which we had no control.

We feel that the college should pay for all expenses incurred by the Bailey field engineer to do all final testing and adjusting of controls and instruments at the time the boiler can be fired to full capacity.

We thank you for your continued cooperation.

Yours very truly,

MARTYN BROTHERS, INC.

/s/ L. B. Owen

L. B. Owen

LBO:bm(d)

Campus Planning Committee
 August 16, 1960
 Attachment No. 242
 Item 1211-H

TEXAS TECHNOLOGICAL COLLEGE
 Lubbock, Texas

Office of the Librarian

July 29, 1960

Mr. Marshall Pennington
 Vice President
 Campus

Dear Marshall,

Pursuant to our conversation of July 28, I attach the equipment needs for the new Library. I feel that we have pared our requests to the minimum, but in consideration of the fact that it may be necessary to reduce the equipment provisions below the minimum, the request is in two columns labelled, for lack of sufficiently descriptive terms, Basis and Subsistence.

Prices are list, and a considerable reduction should be available on the quantities desired.

Sincerely

/s/ R. C. Janeway

R. C. Janeway
 Librarian

NEW LIBRARY EQUIPMENT NEEDS

	BASIC		SUBSISTENCE	
Individual Study Tables	400	\$30,000	300	\$22,500
Chairs (Includes 40 for Carrels)	600	21,000	500	17,500
Service Desks	2	700	2	700
60 Tray Catalog Cabinets	10	6,500	8	5,200
Kardex Cabinets	12	3,300	10	2,750
Desks	10	1,500	6	900
Posture Chairs	10	800	6	480
		<u>\$63,800</u>		<u>\$50,030</u>
Totals				
Carrels	60		40	\$40,000

Campus Planning Committee
 August 16, 1960
 Attachment No. 243
 Item No. 1216-B

TEXAS TECHNOLOGICAL COLLEGE
 Lubbock, Texas

School of Engineering

Department of
 Mechanical Engineering

July 15, 1960

Mr. D. M. McElroy
 Assistant Comptroller
 Administration Building
 Campus

Dear Sir:

In response to your request for an order of preference for the equipment listed in my letter of May 4, 1960, the following is given. The order of preference is expressed in three categories, from highest preference, A, to lowest preference, C. Details of justification and further description are in the referred to letter of May 4, 1960.

Item Number	Preference Category	Description	Amount
15	A-1	Milling Machine	\$13,800.00
14	A-2	Lathe, 15-inch	5,200.00
16	A-3	Drill Press	2,300.00
4	A-4	Gearmotors (2)	1,100.00
8	B-1	Power Saw	500.00
11	B-2	Lathe, 12-inch	1,100.00
9	B-3	Milling Machine	800.00
13	B-4	Drill Press	600.00
12	B-5	Surface Grinder	700.00
5	C-1	Hoists (2)	300.00
1	C-2	Desks (3)	400.00
2	C-3	Chairs (3)	120.00
6	C-4	Screens (2)	100.00
17	C-5	Fan Test Set	4,000.00
18	C-6	Proving Ring	1,100.00
7	C-7	Calculator	700.00
10	C-8	Shaper	750.00
3	C-9	File Cabinets (3)	195.00
19	C-10	Illuminators (2)	90.00
			<u>\$33,855.00</u>

Yours very truly,

/s/ L. J. Powers

L. J. Powers
 Head, Department of
 Mechanical Engineering

LJP:ld(a)

cc: Dean J. R. Bradford

TEXAS TECHNOLOGICAL COLLEGE
Lubbock, Texas

MINUTES OF THE CAMPUS PLANNING COMMITTEE

Meeting No. 84

August 17, 1960

A meeting of the Campus Planning Committee was held at 9 a.m. on August 17, 1960 in Room 120 of the Administration Building. Members present were Mr. Nolan E. Barrick, Colonel C. P. West, and Chairman M. L. Pennington. In addition, Mr. D. M. McElroy and Mr. Ray Downing were present.

Mr. Urbanovsky entered the meeting at 11:25 a.m.

1230. Library

A. Solar Screen

The CPC went to the Library site to examine the sample solar screen. However, the installation was not complete and it was necessary to postpone the recommendation until the sample is ready.

B. Recommendations on Alternates as Set Out in the Contract

Mr. Pitts and Mr. Barrick prepared a Conference Memorandum in Beaumont under the date of August 11, 1960, on the alternates. The Memorandum is attached to and made a part of the Minutes. (Attachment No. 244, page 686)

The CPC went through the items in the contract and the Conference Memorandum and made the following recommendations and to accept all credit amounts shown in the right hand column:

ARTICLE 8

GROUP B

1, 2, 3,
and 4.

Request contractor to extend option time to make decision.

5. Deductive Alternate #7

(Painted plaster in lieu of wood paneling in Rooms 116, 117 and 119)

\$ 1,200.00

9. Deductive Alternate #11A

(Omit vinyl wall covering in spaces 201 and 202)

630.00

11 and

12. Hold for additional information from Mr. Pitts.

15. Deductive Alternate #19

(2' 0 x 4' 0 in lieu of 4' 0 x 4' 0 light fixtures in stairs)

1,831.50

16. Deductive Alternate #20A

(Omit Muzak - Base Bid)

Delay action. Check on public address system to see if it is included in the deductive alternate. (Refer to page 7 of Mr. Pitts' Memorandum)

18. Deductive Alternate #22A

(Painted lighting reflectors - Base Bid Areas) 10,378.50

(Mr. Pitts is still working on the other lighting requirements.)

1230. LibraryB. Recommendations on Alternates as Set Out in the Contract (cont.)

GROUP C

11. Deductive Alternate #22C
(Painted lighting reflectors - Alt. #15
north basement) \$ 2,645.50

GROUP D

1. General Construction Work

- d. Omit display cases in elevator lobby on
first floor.

Request delay of time for acceptance.

- f. Run-in-place Terrazzo stair treads and
risers in lieu of precast treads and plas-
ter risers on interior stairs. Deduct - - 4,107.00

2. Heating, Ventilation and Air Conditioning

- b. Omit standby chilled water and hot water
pumps, leaving only capped openings in the
lines to accommodate their future installa-
tion. Also delete the transfer switches. 4,646.92

- f. Change hot water heating lines to Schedule 40
black steel, welded lines on all lines 4"
and larger in size (lines smaller than 4" in
size shall remain Type L copper). 1,960.72

- g. Change thermometer wells from stainless
steel to brass. 317.46

- m. Delete the three-way water valve at the
suction of the chilled water pumps and the
thermostat controlling that valve. Tunnel
water supply shall then go directly to the
pump and the building, chilled water re-
turn shall go directly to the tunnel.
(The automatic throttling valve shall
remain.) 997.15

3. Plumbing Work

- d. Delete the floor drains in the custodians'
rooms throughout. 320.51

Mr. Barrick was requested to check on the amount of credit for the omission of the air compressor, starters, etc., as the equipment is included in the chilled water station.

The CPC did not recommend the acceptance of any of the other additive alternates. However, a discussion is to be held with Mr. Pitts on some of the other items and there will be additional recommendations by the time of the Building Committee meeting.

1231. Relocation of Farm FacilitiesDairy

After consideration and due to the fact that some of the requested changes have arrived recently, the Health Department approval has just been received and the lack of time to properly study and evaluate the latest developments; the CPC voted to recommend that action on the final plans and specifications be postponed until the next meeting of the Board on September 17, 1960.

1232. Science Addition

Mr. Barrick presented the floor plans and elevations. He reported that the Department Heads are in accord with the layout and the division of space. The information from the Department Heads also included the equipment layouts. The addition is proposed as a wing extending to the west from the south wing of the present Science Building. There would be approximately 25,000 gross square feet and 15,600 net square feet. The estimated cost of the building, with equipment, is \$32.00 per net square foot. It is estimated that the addition can be constructed for the sum of \$500,000, and the budgeted amount is \$525,000 which would allow funds for the architects' fees. The plans include a proposed auditorium and it was agreed that the auditorium should be cleared with the President.

The CPC is of the opinion that the scope and program are in order and that enough information is available to make a presentation to the Board in order to authorize the architects to begin the preliminary plans and specifications, provided the Board feels that adequate funds are available for the addition in view of the remaining balance in Constitutional Building Amendment Funds.

M. L. Pennington
Chairman

The meeting adjourned at 12:35 p.m., with the next meeting to be held in connection with Mr. Pitts' visit.

Campus Planning Committee
 August 17, 1960
 Attachment No. 244
 Item 1230-B

PITTS, MEBANE AND PHELPS - ARCHITECTS AND ENGINEERS
1872 Calder Avenue, Beaumont, Texas . Telephone TE 2-2567

CONFERENCE MEMORANDUM:

August 11, 1960

Re: Texas Tech Library
 Mr. Barrick's visit to Beaumont
 August 10 and 11, 1960

Mr. Barrick visited in the office of the Architects on August 10 and 11 and discussed numerous subjects relating to the project. This meeting was in preparation for a meeting of Mr. Barrick and Mr. Pitts with the Building Committee and the Board of Directors in Lubbock on August 19 and 20. The following tentative decisions were reached: (All decisions will be subject to discussion with the Building Committee and final action of the Board of Directors.)

I-

Group B, Article 8 of the Contract: Contract between the Owner and the General Contractor contains a number of provisions for deductive alternates that are to be resolved within a period of ninety (90) days from date of contract signing. This date is September 8, 1960. Mr. Barrick and Mr. Pitts reviewed these items and tentatively agreed that the following list should be considered for credit: (It should be noted that the finishing of certain basement areas and the Third Floor have a six months' time option and certain of the alternates listed below have parallel considerations relating to the Basement and Third Floor finish alternates.)

Item #5. Deductive Alternate #7	
(Painted plaster in lieu of Wood Paneling	
in Rooms 116, 117 and 119)	Credit \$ 1,200.00

Item #9. Deductive Alternate #11A	
(Omit Vinyl Wall Covering in	
Spaces 201 & 202)	Credit 630.00

Note 1:-

(Obtain similar credit quotation from contractor for omitting vinyl in Spaces B11, Elevator Lobby and B2, Reading Area)

Note 2:-

(Item #10, Deductive Alternate #11B relating to omission of vinyl wall covering in Spaces 301 and 302 are not involved unless the Third Floor is finished by Additive Alternate)

Item #15. Deductive Alternate #19	
(2' x 4' in lieu of 4' x 4' light fixtures	
in stairs)	Credit 1,831.50

Item #18. Deductive Alternate #22A	
(Painted lighting reflectors	
Base Bid Areas)	Credit 10,378.50

Group C, Article 8 of the Contract: The six months' option time for finishing certain areas of the Basement will be on the basis of subsequent discussion.

Group D, Article 8 of the Contract:

Item 1.a. Substitute Painted 1-1/4" x 1-1/4" steel	
tube in lieu of 1-1/4" x 1-1/4" Anodized	
Aluminum Handrails at Main East and	
West Entrances.	Credit 664.00

August 11, 1960

686a

Group D, Article 8 of the Contract: (continued)

Item 1.b.	Install 1/4" thick Cement Asbestos in Wood Frame in lieu of Double Glazing in Aluminum Frames at Fourth Floor Windows.	Deduct \$1,233.00	
Item 1.c.	Install 1/4" thick Cement Asbestos in Wood Frame in lieu of Double Glazing in Aluminum Frames at Third Floor Windows.	Deduct \$4,293.00	
Item 2.a.	Change duplex vacuum pump to a single pump assembly	Credit	876.07
Item 2.b.	Omit standby chilled water and hot water pumps - leaving only capped openings in the lines to accommodate their future installation. Also delete the transfer switches.	Credit	4,646.72
Item 2.f.	Change hot water heating lines to Schedule 40 black steel, welded lines on all lines 4" and larger in size (lines smaller than 4" in size shall remain Type L copper)	Credit	1,960.72
Item 2.g.	Change thermometer wells from stainless steel to brass	Credit	317.46
Item 2.m.	Delete the three-way water valve at the suction of the chilled water pumps and the thermostat controlling that valve. Tunnel water supply shall then go directly to the pump and the building chilled water return shall go directly to the tunnel. (The automatic throttling valve shall remain)	Credit	997.15
Item 3.d.	Delete the floor drains in the Custodians' Rooms throughout	Credit	320.51
TOTAL			<u>\$23,822.83</u>

NOTE:

The foregoing changes in the mechanical layout will be subject to verification by the College Engineer, Mr. Ray Downing, and Director of Building Maintenance prior to the Board Meeting.

II-

A telephone call was placed to Mr. Chas. Morton and the following matters were discussed:

- (1) The specifications for the concrete finish which had been used on the John Hancock Building in San Francisco had been previously furnished to Mr. Morton. He was requested to estimate the Texas Tech job following this type of finish modified to include White Cement - Corrigan Sand and Limestone aggregate. He was to include in his analysis sand blasting and bush hammering. This finish was to be used for the concrete arches, the upper concrete columns (lightened by incorporation of a cylindrical core in the column to compensate for the weight of the heavy aggregate), the second floor cornice line of the tower, the cornice line at the roof of the one-story areas - with an alternate price for finishing the lower columns in this same finish as against other finishes. Mr. Morton's analysis is to include cost of a heavy coat of colorless silicone type waterproofing for all of the above mentioned surfaces.

(Mr. Morton telephoned on August 11 and stated that the special sand and special aggregate as opposed to the West Texas sand and aggregate would increase the white cement concrete quotation by \$3,887.00. He did not state whether this included the bush hammering and the Architects will endeavor to obtain this information.)

August 11, 1960

II- Cont'd

- 2) Mr. Morton was questioned as to whether his previous quotation on granite for benches included polished granite and he advised that it did. He was asked whether the quotation on the pool coping contemplated polished granite and he stated that it did.
- 3) Mr. Morton was asked if the pool coping could be of polished Rockville granite and he stated that he would advise as quickly as possible. (On August 11, Mr. Morton telephoned to advise that the use of Rockville granite on the pool coping would add \$200 because of freight.)
- 4) Mr. Morton was asked whether the frieze on separate precast concrete panels below the cornice line of the one-story wings would remain and he stated that these would be of concrete cast on the job and then finished as subsequently determined.
- 5) Mr. Morton was requested to obtain a quotation on Light Roman Travertine filled and polished for the First Floor columns in the Garden Area. He was requested to provide a price on 1-1/4" thickness with polished returns and an alternate price on 7/8" thickness with an additional lamination of 7/8" at the edges. All exposed faces to be polished. All in accordance with detail previously forwarded J. M. Odom.
- 6) Mr. Morton was requested to provide a price for providing columns with filled and polished Texas shell stone facing.
- 7) Mr. Morton was requested to have samples of concrete finishes in Lubbock next week as follows:

Sample A - Sprayed on finish over sand blasted concrete.

Sample B - Sprayed on finish over smooth concrete.

Sample C - White cement, imported aggregates sand blasted and bush hammered.

(The Architects will contact Mr. Morton and request that he also provide samples of the several granites under consideration & of Light Roman Travertine marble and of White Carrara marble.)

The Architects will ask Mr. Morton to provide the sample he prepared of local West Texas aggregates with white cement for comparison.

Note 1:- The Architects will request Mr. Morton to obtain price on granite steps using a granite similar to Bethel white granite as sold by Vermont Marble Co. If a similar white granite can be quoted through another source, it will be satisfactory but samples will be needed at the job site on August 18.

Note 2:- Mr. Morton will be requested to quote a price for exterior steps of Light Roman Travertine marble not polished or filled.

Note 3:- Mr. Morton will be requested to obtain a price for granite steps using the very pale pink gray granite which is used for the Plaza area of the Seagram's Building in New York City.

Note 4:- Mr. Morton was requested to obtain a credit for omitting the glazed colored spots on the inboard side of the solar screen. These inserts would be arranged so that the color would appear on the exterior only; would project approximately 2" from face of the tile screen as originally proposed; would fill the square opening to a point approximately 2" back of the inboard face of the tile screen.

III-

Mr. Barrick and Mr. Pitts met with representatives of the Acme Brick Company and the Butler Brick Company. After discussion and inspection of samples which had been submitted in Beaumont, it was agreed that the following samples will be prepared in Lubbock. Each manufacturer agreed to ship his particular products so that they would arrive in Lubbock on Monday, August 15.

August 11, 1960

III- Cont'd

Mr. Morton's attention is called to the fact that mortar colors shall be used as discussed below:

Butler Brick Company

- 1) This company is unable to quote on the typical Texas Tech face brick; however, the Lubbock Brick and Tile Company is proposing to quote on a competitive face brick and Mr. Barrick will discuss the color variation in samples that they will submit.
- 2) This company will submit a glazed structural facing tile, ground two edges for consideration in the toilet rooms. This is to be of pale gray color.
- 3) They will likewise submit two pale gray brick samples for consideration in connection with the face brick for the main interior stairs.
- 4) They will submit samples of 8" nominal octagonal sun screen tile with glazed spots.

NOTE: Above samples will be laid up in mortar of a color approaching the color of the masonry unit but a few shades lighter.

Acme Brick Company

- 1) Typical exterior face brick for Texas Tech using Fort Scott cement mortar tone.
- 2) Similar blend using the so-called extra rough texture.
- 3) Modification to the standard Texas Tech face brick eliminating the darker colors and using the standard texture.
- 4) Modification to the standard Texas Tech brick eliminating the darker colors and using the very rough texture.
- 5) Modification to the Texas Tech colors using a smooth velour texture.

The latter three (3) shall be laid in mortar which would approach the color of the lightest brick in the range.

- 6) Stairway brick using two pale gray samples.
- 7) Glazed structural facing tile for toilet rooms (to be ground two edges) using the pale gray colors.
- 8) Solar Screen
 - "A" This to be of a constant color similar to the octagonal sample erected in Beaumont.
 - "B" This to be of a variegated color from dark brown through medium pink tones into the salmon tones.

(It is understood that Acme's solar screen "A" and "B" will be submitted from the Elgin Plant. Acme will provide glazed ceramic inserts using three colors of each of the standard dramatic color range. If possible, both solar screen "A" and "B" will be first preference of 8" thickness; 2nd preference of 2 - 4" thickness; or 3rd preference of 6" thickness. It is to be noted that the building screen will require 8" thickness.)

Samples above shall be laid in mortar tinted towards masonry units. For screen use Alaskan Brown mortar color for tinting.

The Architects advised the Acme people that they would be agreeable to J. M. Odom using any first quality common brick and common tile that they should desire to use.

August 11, 1960

IV -

Mr. Barrick and Mr. Pitts agreed that the subject of ballast hum would be discussed in the forthcoming trip to Lubbock.

- 1) Mr. Barrick and Mr. Pitts both agreed that careful consideration should be given the use of Muzak in the building in order to assist in providing an overriding sound which would diminish the objectionable noise that might come from light fixture ballast hum, therefore, the deductive alternates for omission for Muzak should be reviewed quite carefully before acceptance.
- 2) Mr. Barrick and Mr. Pitts decided that the Architects will study location of towel dispensers and receptacle units to relocate them and to provide one between each two lavatories where possible. J. M. Odom Construction Company will be requested to provide quotation on this.
- 3) The Architects are requesting a quotation from J. M. Odom for omission of the green heat absorbing plate glass and the use of clear plate glass of proper thickness in lieu thereof. This is for consideration only.

V -

Mr. Barrick and Mr. Pitts discussed tentatively the use of rubber tile and vinyl asbestos tile colors similar to Goodyear Rubber Flooring Style 511, 515, 517 and 520, with possibly a combination of 511 and 517.

- 1) It was agreed that the typical floor elevator doors and door frames will be finished in Tayco Products, Inc., Academy Blue Color #1229.
- 2) Tentatively, it was thought that the interior free standing columns might be finished in a gray similar in color to Goodyear Flooring Style 525. The wall color adjacent to the elevator areas could possibly be a coral or flame color similar to Vicrtex Fabric Flame #5065.
- 3) It was agreed that the Architects will sketch designs for the interior elevator cab and forward them to Mr. Barrick for consideration. It was thought that these would incorporate the use of Formica with some colorful panels.

VI -

Mr. Barrick talked to Mr. Babb and outlined certain views in connection with hardware. Basically, his suggestions were as follows:

- 1) A basic specification be made on the Uniloc with alternate bids taken on heavy duty mortise locks.
- 2) The building will have two master keys and one grand master key.

It is expected that the Architects will have the Hardware Specification ready in about ten days. Bids will be taken informally without advertising. Six (6) sets of Hardware Specifications will be sent to Mr. Barrick for obtaining several bids in West Texas and the Architects will endeavor to obtain bids from hardware vendors in this area. Hardware will be of white metal finish using satin finish aluminum. An alternate price possibly could be taken on stainless steel also.

PITTS, MEBANE & PHELPS

L. W. Pitts

L. W. Pitts

cc: Mr. Nolan E. Barrick (3)
Mr. Richard Phelps (2)
Mr. John Askins (2)
J. M. Odom Construction Co. (6)
Acme Brick Company (2)
Ross Sales Company (2)
Zumwalt & Vinther (2)
L. W. Pitts
R. R. Phelps
Frank Beadle, Jr.

Conference Memorandum
Texas Tech Library

August 11, 1960

VI - Cont'd

P. S. During the afternoon of August 11, Mr. Pitts telephoned Mr. Les Hicks, Sr., in Marble Falls and discussed other granites which might be used for steps, etc., in the subject project. Mr. Hicks was requested to provide prices on several types of granite. These will be forwarded immediately to J. M. Odom Construction Company. Mr. Hicks also agreed to send a set of samples of these additional types of granite to Beaumont, Attention: Mr. L. W. Pitts, and a set to Lubbock, Attention: Mr. John Askins. It was explained to Mr. Hicks that the Building Committee of the Board would meet on Friday, August 19, and the full Board on August 20. Mr. Hicks advised he would have the prices in J. M. Odom Construction Company's hands and the samples in Beaumont and Lubbock prior to that time.

L. W. P.

PROPOSED AGENDA FOR THE JOINT MEETING OF THE BUILDING COMMITTEE
AND THE CAMPUS PLANNING COMMITTEE TO BE HELD AT 9:30 A.M.
AUGUST 19, 1960, IN THE OFFICE OF THE PRESIDENT

1233 ~~1204.~~ Air Conditioning (Registrar's Office)

OK Consider recommendation of the Campus Planning Committee that the final acceptance date be April 28, 1960. 7

1234 ~~1204.~~ Central Chilling Station *Also open up info.*

Bids were opened at 2:00 p.m. on August 18, 1960, in the Aggie Auditorium in the presence of approximately _____ interested persons. A copy of the bid tabulation is attached.

Consider the recommendation of the CPC to award the contract to

_____, in the amount of _____.

5/1/61 Dep't
The source of recommended funds is as follows:

Voted to reject all bids, request engineers to make revisions in plans & specs, order re-advertise, and take new bids for next meeting. (include letter as attachment)

Library

23 ~~1211.~~ B. Time Extension Request

OK Consider the CPC's recommendation for an extension of time to the construction contract in the amount of three days due to the heavy rains on July 5, 6, and 7, 1960. 7

~~1230.~~ C. Solar Screen

Consider recommendation of the CPC on the solar screen sample.

info postponed

~~1211~~ E. Lights

~~Consider recommendation of CPC and Mr. Pitts for the lights in the Library.~~

Library (continued)

~~2. D~~ Scope OK

Consider the base recommendation of the CPC in the amount of \$2,165,000 as follows: (Item 1182-A, page 658)

"After careful consideration, the CPC voted to make the tentative recommendation an official recommendation. The recommendation will include the addition of one basement wing to the present basic plan and the total estimated cost will be \$2,165,000 which is broken down as follows:

General contract	\$1,836,162.00
Elevator contract	66,360.00
Architects' fees	95,126.00
Air conditioning equipment	103,000.00
Additional basement wing	<u>64,352.00</u>

Recommended Total- - - - \$2,165,000.00

"In addition, it was agreed to recommend that all gift monies be applied to the budgeted amount of \$1,825,000 until it reaches the recommended total and any other additions to the project will be financed from additional gift monies."

Alternates

Consider the recommendation of the CPC on the alternates as shown in the contract as follows:

ARTICLE 8

GROUP B

1,2,3,
and 4. Request contractor to extend option time to make decision.

5. Deductive Alternate #7
(Painted plaster in lieu of wood paneling in
Rooms 116, 117 and 119)

\$1,200

1230. B. Alternates

GROUP B (continued)

9. Deductive Alternate #11A
 (Omit vinyl wall covering in spaces 201 and 202) \$ 630.00

11 &

12. Hold for additional information from Mr. Pitts

15. Deductive Alternate #19
 (2' 0 x 4' 0 in lieu of 4' 0 x 4' 0 light fixtures in stairs) 1,831.50

16. Deductive Alternate #20A
 (Omit Muzak - Base Bid)

Delay action. Check on public address system to see if it is included in the deductive alternate. (Refer to page 7 of Mr. Pitts' Memorandum)

18. Deductive Alternate #22A
 (Painted lighting reflectors - Base Bid Areas) 10,378.50
 (Mr. Pitts is still working on the other lighting requirements.)

1230. B. Alternates (continued)

GROUP C

11. Deductive Alternate #22C
 (Painted Lighting reflectors - Alt. #15 - north
 basement) \$ 2,645.50

GROUP D

1. General Construction Work

- d. Omit display cases in elevator lobby on first
 floor.

Request delay of time for acceptance.

- f. Run-in-place Terrazzo stair treads and risers
 in lieu of precast treads and plaster risers
 on interior stairs. Deduct 4,107.00

2. Heating, Ventilation and Air Conditioning

- b. Omit standby chilled water and hot water pumps,
 leaving only capped openings in the lines to
 accommodate their future installation. Also
 delete the transfer switches. 4,646.92

- f. Change hot water heating lines to Schedule 40
 black steel, welded lines on all lines 4" and
 larger in size (lines smaller than 4" in size
 shall remain Type L copper). 1,960.72

- g. Change thermometer wells from stainless steel
 to brass. 317.46

1230. B. Alternates (continued)

GROUP D

- m. Delete the three-way water valve at the suction of the chilled water pumps and the thermostat controlling that valve. Tunnel water supply shall then go directly to the pump and the building, chilled water return shall go directly to the tunnel. (The automatic throttling valve shall remain.)

997.15

3. Plumbing Work

- d. Delete the floor drains in the custodians' rooms throughout.

320.51

1239 ~~1237~~ Meats LaboratoryB. Time Extension OK

Consider recommendation of the CPC to grant the contractor an extension of 7 days to the completion date due to the fact that the owner delayed the start of the project by failing to clear the site for seven days after the contract date. N

1238 ~~1237~~ Relocation of Farm FacilitiesA, Dairy OK

Consider the recommendation of the CPC to postpone approval of the final plans and specifications until the next meeting of the Board on September 17, 1960.

~~approve~~
no motion

1238. Relocation of Farm Facilities (continued)

B. Poultry Facilities

Consider the recommendation of the CPC for final plans and specifications to provide the facilities.

take bids, - report at next meeting

Curtis - no -

1239. Science Building

Consider the developments to date on the project.

OK to turn to architect with copy of Board's statement on design policy with question on design style & location of auditorium, with no recommendation other than floor lay-out -

1240. Student Union

Bids were opened at 2 p.m. on August 18, 1960, in the Aggie Auditorium before approximately 150 interested people. A copy of the bid tabulation is attached.

Consider the recommendation of the CPC for the contract award to _____ in the amount of _____.

1226. Kitchen Equip. - est. amt. \$65,000 OK
for kitchen & serving dining room, amt. is in HHFA application. Need Board approval to advertise for bids & open bids at next meeting.

1229. Women's Gymnasium

B. Time Extension Request

Consider the recommendation of the CPC to grant the contractor an extension of 20 days to the completion time due to the delay caused by the bricklayers' strike in June. The contractor requested 27 days.

1241. Utilities

Consider need for switchgear on sub-station housing west of Power Plant, masonry structure, est. cost \$1,800.

authorized CPC to approve design take bids & handle. - authorized CPC to handle M.L.P.

Bledsoe & Ketch - OK

WATER CHILLING STATION NO. 1
FOR TEXAS TECHNOLOGICAL COLLEGE
LUBBOCK, TEXAS

TABULATION OF BIDS

AUGUST 17, 1960

CONTRACTOR	BID SEC.	TOTAL BIDS	Ackn. 1 Addendum	BIDDERS QUALIFICATIONS
Anthony Company Lubbock	x	\$258,000	x	x
Boyer Company Austin	x	238,637	x	x
Burden Brothers Dallas	x	262,970	x	x
General Engineering Ft. Worth	x	279,728	x	x
A. P. Kasch Big Spring	x	233,008	x	x
Martyn Inc. Dallas	x	261,830	x	x
Roche Newton Company Lubbock	x	233,898	x	x
Orndorff Ft. Worth				
P & C Mechanical Lubbock				
Ray Heating & Plumbing Lubbock	x	259,000	x	x
Rountree Company Lubbock	x	269,000	x	x
H. E. Taylor Lubbock				
Way Engineering Austin	x	264,418	x	x
R. M. Wells Quanah, Texas	x	269,000	x	x

ZUMWALT & VINTHER
CONSULTING ENGINEERS
LUBBOCK - DALLAS

ADDITIONS AND ALTERATIONS TO STUDENT UNION BUILDING
TEXAS TECHNOLOGICAL COLLEGE, LUBBOCK, TEXAS
HHFA Project No. Tex. CH-109(S)
August 18, 1960

TABULATION OF BIDS

Atcheson, Atkinson & Cartwright
Davis, Foster, Thorpe & Associates
Associated Architects & Engineers
Lubbock and El Paso, Texas

CONTRACTOR	BASE BID	ADDITIVE ALTERNATES									TOTAL	Ackn. Two Ad- denda	Bid Secu- rity
		#1 Faculty Lounge Finish	#2 Ballr'm Wainsc.	#3 Fold. Part.	#4 Ter- razzo	#5 Trazo. Lounge Porch	#6 Conc. Terrace	#7 P.A. System	#8 Side- walks Pav'g	#9 Tunnel			
Frank O. Bennett, Jr.	\$684,510	+6,835	+3,225	+15,300	+5,390	+1,365	+1,000	+3,470	+3,290	+4,600	\$728,985	x	x
Butcher & Sweeney Constr.	698,394	6,950	3,300	13,660	5,500	1,400	755	3,885	3,300	7,900	745,047	x	x
Cain & Cain	712,358	7,125	3,560	13,820	5,617	1,575	850	3,960	3,450	8,100	760,415	x	x
W. R. Grimshaw Co.	674,500	7,400	3,700	14,000	7,100	1,400	800	4,000	3,100	7,800	723,800	x	x
A. P. Kasch & Sons	690,754	6,870	2,575	13,315	6,400	1,285	1,806	3,700	2,100	5,286	734,091	x	x
C. H. Leavelle & Co.													
Lembke Construction Co.	675,705	4,821	3,836	14,173	5,395	1,363	660	3,922	3,395	6,282	719,552	x	x
Carl E. Maxey Constr.	685,000	6,420	2,770	13,700	5,107	1,352	1,286	3,998	3,114	6,674	729,421	x	x
J. M. Odom, Gen. Con.	694,880	5,750	4,400	13,900	5,300	1,450	830	3,900	3,040	8,200	741,650	x	x
H. A. Padgett, Jr.	683,475	6,822	3,019	15,983	5,666	1,480	1,256	3,490	2,970	5,190	729,351	x	x
Ramey Construction Co.	674,966	5,823	3,746	14,640	5,169	1,352	1,580	4,170	2,951	7,310	721,707	x	x
V & N Construction Co.	666,281	6,500	2,700	15,000	5,100	1,384	1,140	3,200	2,863	4,700	708,868	x	x
West Texas Builders	744,500	5,920	4,840	14,300	5,240	1,455	1,620	4,180	3,190	6,076	791,321	x	x
Wohlfeld Construction Co.	715,644	6,496	3,663	13,653	4,812	837	1,110	3,600	3,281	5,901	758,997	x	x

TEXAS TECHNOLOGICAL COLLEGE
Lubbock, Texas

MINUTES OF THE CAMPUS PLANNING COMMITTEE

Meeting No. 85

August 19, 1960

A joint meeting of the Building Committee of the Board of Directors and the Campus Planning Committee was held on August 19, 1960, at 9:30 a.m. in the Office of the President.

Members of the Building Committee present were Mr. J. Evetts Haley, Chairman, Mr. Harold Hinn and Mr. Wilmer Smith. In addition, Mr. Manuel DeBusk was present.

Members of the Campus Planning Committee present were Mr. E. J. Urbanovsky, Mr. Nolan E. Barrick, Colonel C. P. West and Chairman M. L. Pennington. Others present were President R. C. Goodwin, Mr. D. M. McElroy and Mr. John G. Taylor.

In order that the results of the meeting of the Board of Directors may be included in the Campus Planning Committee Minutes for record purposes, the action taken by the Board of Directors at the meeting on August 20, 1960, will follow that of the Building Committee for each item.

The Building Committee took the following actions:

1233. Air Conditioning (Registrar's Office)

Approved the final acceptance date of April 28, 1960, for the project.

(The Board of Directors approved the action.)

1234. Central Chilling Station

A. Bid Opening

Bids were opened at 2 p.m. on August 18, 1960, in the Aggie Auditorium in the presence of approximately 85 interested persons. A copy of the bid tabulation is attached to and made a part of the Minutes. (Attachment No. 245, page 697)

B. Bid Rejection

The Building Committee voted to reject all bids, and requested the engineers to make the necessary revisions, the Campus Planning Committee to reissue the plans and specifications and secure new bids in time for the next meeting of the Board of Directors. A copy of the letter of recommendation from the Engineers, Zumwalt and Vinther, dated August 19, 1960, is attached to and made a part of the Minutes. (Attachment No. 246, page 698)

(The Board of Directors approved the action.)

1235. Financial Report

A revised Financial Report as of August 18, 1960, was presented to and used by the Building Committee. In order to make the report a part of the records, it is attached to and made a part of the Minutes. (Attachment No. 247, page 699)

1236. LibraryI. ALTERNATES

ARTICLE 8. OWNER'S OPTIONS:

Action of the Building Committee on each alternate is shown in the right hand column as follows:

- A. The owner has the option, within thirty (30) days from date of contract, of accepting any or all of the following alternates and the contract will be adjusted accordingly:

ACTION

Deductive Alternate #23

(Decrease size of roof drains from 8" to 6")

\$1,933.25 REJECTED

As authorized by the Board of Directors, the Campus Planning Committee declined the alternate. (Item No. 1150-B, page 640)

- B. The owner has the option, within ninety (90) days from date of contract, of accepting any or all of the following alternates and the contract will be adjusted accordingly:

1. Deductive Alternate #5A
(Omit color insets in first floor, west solar screen) 350.00 DELAY
2. Deductive Alternate #5B
(Omit color insets in first floor, north and south solar screens) 250.00 DELAY
3. Deductive Alternate #5C
(Omit color insets in solar screens at and above the second floor) 6,000.00 DELAY
4. Deductive Alternate #6
(Omit painting of concrete and brick behind solar screens) 2,030.00 DELAY
5. Deductive Alternate #7
(Painted plaster in lieu of wood paneling in Rooms 116, 117 and 119) 1,200.00 ACCEPT
6. Deductive Alternate #8
(Omit acoustic plaster on stair soffits) 50.00 REJECT
7. Deductive Alternate #9
(Omit solar screens at first floor, north and south ends of building) 5,450.00 REJECT
8. Deductive Alternate #10
(Omit acoustic screens in Garden Room) 1,400.00 REJECT
9. Deductive Alternate #11A
(Omit vinyl wall covering in spaces 201 & 202) 630.00 ACCEPT

Note: Mr. Pitts is to request a deduction for the same item in the north basement.

1236. Library

ARTICLE 8. OWNER'S OPTIONS:

B. (continued)

ACTION

10.	Deductive Alternate #11B (Omit vinyl wall covering in spaces 301 & 302)	\$ 670.00	NOT APPLICABLE
11.	Deductive Alternate #12A (Use precast in lieu of cut stone for fascia, frieze and first floor, center column facings)	4,350.00	DEFER
12.	Deductive Alternate #12B (Use rubbed and painted concrete in lieu of cut stone fascia)	6,500.00	DEFER
13.	Deductive Alternate #17 (Omit lights behind Garden Room screens)	696.99	REJECT
14.	Deductive Alternate #18 (Omit lights behind exterior solar screens)	2,035.00	REJECT
Note: Check is to be made on type of control switch.			
15.	Deductive Alternate #19 (2' 0 x 4' 0 in lieu of 4' 0 x 4' 0 light fixtures in stairs)	1,831.50	ACCEPT
16.	Deductive Alternate #20A (Omit Muzak - base bid)	6,542.53	DELAY
Note: A price is to be obtained for the installation of conduit only.			
17.	Deductive Alternate #21A (Flat sheet lighting louvers, - base bid areas)	6,316.64	DELAY
18.	Deductive Alternate #22A (Painted lighting reflectors - base bid areas)	10,378.50	ACCEPT

Note: Mr. Pitts is to obtain an
amount to provide the Alzak
finishes for the lights in
space frames of the lobby.
The estimated cost is less
than \$400 and the CPC was
authorized to approve it.

APPROVED

C. The Owner has the option, within six (6) months from date of
contract, of accepting any or all of the following alternates
and the contract will be adjusted accordingly:

1.	Finish South Basement	\$59,234.00	NOT APPLICABLE
2.	Finish North Basement (Additive)	(64,404.16)	ACCEPT

Note: All alternates applicable to
other sections of the con-
struction are to be applied
to the north basement also.

ARTICLE 8. OWNER'S OPTIONS:

C. (continued)

ACTION

- | | | |
|-----------------------|-------------|-------------------|
| 3. Finish Third Floor | \$82,458.78 | NOT
APPLICABLE |
|-----------------------|-------------|-------------------|

The following alternates, on which the owner has a ninety (90) day option of acceptance from date of contract, are shown in this sequence because they relate to the finishing of the south basement, north basement and third floor.

Decisions by the owner on ninety (90) days options related to the base contract will apply in like manner to the following ninety (90) day options in order that only the basic decisions as to whether or not to finish the south basement and/or the north basement, and/or the third floor will remain to be made after the lapse of ninety (90) days and prior to the expiration of six months from date of contract.

- | | | |
|--|------------|-------------------|
| 4. Deductive Alternate #20B (Omit Muzak Alt. #14 - south basement) | \$1,160.97 | NOT
APPLICABLE |
| 5. Deductive Alternate #20C (Omit Muzak Alt. #15 - north basement) | 1,224.05 | DELAY |
| 6. Deductive Alternate #20D (Omit Muzak Alt. #16 - third floor) | 1,224.05 | NOT
APPLICABLE |
| 7. Deductive Alternate #21B
(Flat sheet lighting louvers
Alt. #14 - south basement) | 1,432.64 | NOT
APPLICABLE |
| 8. Deductive Alternate #21C
(Flat sheet lighting louvers
Alt. #15 - north basement) | 1,622.91 | DELAY |
| 9. Deductive Alternate #21D
(Flat sheet lighting louvers
Alt. #16 - third floor) | 1,670.74 | NOT
APPLICABLE |
| 10. Deductive Alternate #22B
(Painted lighting reflectors
Alt. #14 - south basement) | 2,340.25 | NOT
APPLICABLE |
| 11. Deductive Alternate #22C
(Painted lighting reflectors
Alt. #15 - north basement) | 2,645.50 | ACCEPT |
| 12. Deductive Alternate #22D
(Painted lighting reflectors
Alt. #16 - third floor) | 2,726.90 | NOT
APPLICABLE |
- D. The owner has the option, within ninety (90) days from date of contract, of accepting any or all of the following deductive items and the contract will be adjusted accordingly:
1. General Construction Work
- | | | |
|--|-----------|--------|
| a. Substitute painted 1-1/4" x 1-1/4" steel tube in lieu of 1-1/4" x 1-1/4" anodized aluminum hand-rails at main east and west entrances. Deduct | \$ 664.00 | REJECT |
|--|-----------|--------|

1236. Library

ARTICLE 8. OWNER'S OPTIONS:

D. 1. General Construction Work (continued)

- | | | |
|--|------------|--------|
| b. Install 1/4" thick cement asbestos in wood frame in lieu of double glazing in aluminum frames at fourth floor windows. Deduct | \$1,233.00 | REJECT |
| c. Install 1/4" thick cement asbestos in wood frame in lieu of double glazing in aluminum frames at third floor windows. Deduct | 4,293.00 | REJECT |
| d. Omit display cases in elevator lobby on first floor. Deduct | 3,200.00 | DELAY |
| e. Use common bond structural glazed tile in toilet rooms in lieu of stacked bond. Deduct | 387.00 | REJECT |
| f. Run-in-place terrazzo stair treads and risers in lieu of precast treads and plaster risers on interior stairs. Deduct | 4,107.00 | ACCEPT |

Note: Mr. Pitts requested the use of the amount to upgrade the outside steps by using granite or travertine. The change will appear as a Change Order at a later date.

APPROVED

2. Heating, Ventilating and Air Conditioning

- | | | |
|--|----------|--------|
| a. Change duplex vacuum pump to a single pump assembly. | 876.07 | REJECT |
| b. Omit standby chilled water and hot water pumps - leaving only capped openings in the lines to accommodate their future installation. Also delete the transfer switches. | 4,646.92 | ACCEPT |

Note: It will be necessary to purchase and install the equipment at a later date. A savings can be effected by the purchase and installation by the College.

APPROVED

- | | | |
|--|----------|--------|
| c. Change starters serving hot and chilled water pumps (one each) fans, heating & ventilating unit from Bulletin 712 to Bulletin 709. | 637.97 | REJECT |
| d. Delete eliminators following cooling coils in all A. C. units | 508.75 | REJECT |
| e. Delete rubber expansion joints in cold water make-up lines to condensate and vacuum pumps. | 502.65 | REJECT |
| f. Change hot water heating lines to Schedule 40 black steel, welded lines on all lines 4" and larger in size (lines smaller than 4" in size shall remain Type L copper) | 1,960.72 | ACCEPT |

Note: Isolators are to be provided between the two metals.

1236. Library

ARTICLE 8. OWNER'S OPTION:

D. 2. Heating, Ventilating and Air Conditioning (continued)

		<u>ACTION</u>
g.	Change thermometer wells from stain- less steel to brass.	317.46 ACCEPT
h.	Change insulation on 3-1/2" and larger steam and return lines operat- ing at pressures in excess of 15 psi to standard thickness in lieu of 1-1/2" thick.	10.80 REJECT
i.	Omit the insulation on return lines in systems supplied with steam at pres- sures up to 15 psi. (Pumped returns shall still be insulated)	274.73 REJECT
j.	Delete the insulation on steam vent, relief and exhaust lines and on the flash tank	35.61 REJECT
k.	Delete the insulation on outside air intakes, return air ducts from the fans to the plenums or air units, ducts that carry outside and return air, and re- lief ducts.	1,373.63 REJECT
l.	Make all insulation on all round sup- ply ducts 1" thick.	152.63 REJECT
m.	Delete the three-way water valve at the suction of the chilled water pumps and the thermostat controlling that valve. Tunnel water supply shall then go di- rectly to the pump and the building chilled water return shall go directly to the tunnel.	997.15 ACCEPT
3. <u>Plumbing Work</u>		
a.	Delete the expansion joints in the con- nections to the hot water circulating pumps.	162.80 REJECT
b.	Delete the spring isolators under the drinking water cooling unit and the ex- pansion joints in the lines connected to the assembly.	284.90 REJECT
c.	Delete the water softener, in the make- up water line to the pool, in its entirety.	223.85 REJECT
d.	Delete the floor drains in the Custodi- ans' rooms throughout.	320.51 ACCEPT
e.	Delete the floor drains in the toilet rooms throughout.	356.13 REJECT

1236. Library

ARTICLE 8. OWNER'S OPTION:

D. 3. Plumbing Work (continued)ACTION

- f. Delete all provisions for toilets on the fourth and fifth floors at P-8B. Connect the waste stack on P-8 at a point approximately 2'0" above the fourth floor into the stack vent and extend that vent through the roof in the most direct route, offsetting the waste and vent on P-8 only as required to avoid interferences on the fourth floor; stop the cold water on P-8 at the takeoff to the third floor fixtures, run it 2-1/2" in size to the second floor and 3" in size to the main on the basement ceiling; stop the hot water supply and return at the point of connection to the fixtures on P-9 on the third floor. \$437.53 REJECT
- g. Delete the provisions for toilets and service sinks on P-12B and P-12C on the fifth floor, stop the waste lines on P-12B at the point of connection of the fixture revents on the fourth floor, delete the stack vents on the fourth and fifth floors on both P-12B and P-12C, reduce the size of the cold water line from P-12 to P-12B from 3" to 2-1/2", reduce the size of the hot water line from P-11 to P-12B and P-12C from 1" to 3/4" in size, and on P-11 reduce the hot water line between the points of connection to fixtures on the second and third floors from 1-1/2" to 1-1/4" in size and rough-in only for the water closet, urinals, lavatory and service sink on risers P-12B and P-12C on the fourth floor. 407.00 REJECT

TOTAL AMOUNT OF DEDUCTIVES

ACCEPTED- - - - - \$29,035.26

There will be subsequent action on other alternates.

1236. LibraryIII. Solar Screen

Action on the solar screen was delayed due to the fact that the sample was not completely installed.

IV. Scope

Approved the base recommendation of the CPC in the amount of \$2,165,000 as follows: (Item No. 1182-A, page 658)

"After careful consideration, the CPC voted to make the tentative recommendation an official recommendation. The recommendation will include the addition of one basement wing to the present basic plan and the total estimated cost will be \$2,165,000 which is broken down as follows:

General contract	\$1,836,162.00
Elevator contract	66,360.00
Architects' fees	95,126.00
Air conditioning equipment	103,000.00
Additional basement wing	<u>64,352.00</u>

Recommended Total- - - \$2,165,000.00

"In addition, it was agreed to recommend that all gift monies be applied to the budgeted amount of \$1,825,000 until it reaches the recommended total and any other additions to the project will be financed from additional gift monies."

(The Board of Directors approved the action.)

1237. Meats LaboratoryTime Extension

Approved an extension of time to the contract in the amount of 7 days due to the fact that the owner delayed the start of the project by failing to clear the site for 7 days after the contract date.

(The Board of Directors approved the action.)

1238. Relocation of Farm FacilitiesA. Dairy

Accepted the recommendation of the CPC to postpone approval of the final plans and specifications until the next meeting of the Board on September 17, 1960.

B. Poultry Facilities

Approved the final plans and specifications for the Poultry Facilities, authorized the taking of bids and agreed to consider a contract award at the next meeting. Mr. Haley asked that his exception be recorded.

(The Board of Directors approved the action.)

1239. Science Building

After consideration of the information presented, the Building Committee authorized turning the project to the Project Architects for preliminary plans and specifications, with a copy of the Board's statement on design policy, and questioned the design and style and the location of the auditorium. The approval pertained to the floor plan only.

(The statement of policy from the Board of Directors is as follows: Item No. 396, Board Minutes of October 10, 1959)

"Mr. Haley made a motion that the Board approve the following Resolution: 'Resolved that the Board looks with strong favor upon the continued use of the traditional design of Spanish Renaissance Style of Architecture now in use in most of the campus buildings.'"

(The Board of Directors approved the action of the Building Committee with the additional statement that the authorization to the architects is to include a photograph of the Science Building to which the addition will be attached, and that only the floor layouts will be transmitted.)

1240. Student Union Addition

- A. Bids were opened at 2 p.m. on August 18, 1960, in the Aggie Auditorium in the presence of approximately 150 interested persons. A copy of the bid tabulation is attached to and made a part of the Minutes. (Attachment No. 248, page 700)

The V & N Construction Company of Lubbock was low bidder with a base bid of \$666,281.00 and a total bid of \$708,868.00.

- B. After lengthy discussions in the meeting of the Building Committee and the Board of Directors' meeting the following day, the Board of Directors approved the acceptance of the low total bid in the amount of \$708,868.00 from the V & N Construction Company with the stipulation that attempts be made to negotiate, by Change Order, approximately 8,000 square feet of additional floor space in the basement under the Ballroom and to negotiate the upgrading of the interior finishes to that of the existing portion of the Student Union Building and to report at the next meeting, all subject to the HHFA approval.

In addition, the CPC was instructed to re-evaluate the amount charged to the central chilling station (\$78,992.00) from Constitutional Building Amendment Funds to provide space for the non Union portion and to re-evaluate the amount of the Union Funds (\$30,000.00) to apply on the central chilling station equipment. The building costs, in view of the bids and the additional cooling needed by the Union, necessitate the re-evaluations.

The records show that the preliminary estimate of \$1,160,000 (HHFA loan of \$910,000) was based on a total square footage of 61,302 square feet. The space was reduced to approximately 47,000 feet by the architects solely because they were of the opinion that the funds available would not construct the original amount. The square footage was later raised to 51,676 square feet and the architects thought the project could not come within the funds available.

Due to the fact that there probably will be extensions to the Union in the future and the additional fact that land space is decreasing, it seemed expedient to increase the size of the basement as it could not be done feasibly in the future. However, the amount omitted from the second story could be added at a future

1240. Student Union Addition

B. (continued)

date. It was estimated that the 8,000 feet of additional floor space in the basement could be included at an amount not to exceed \$12.00 per square foot or a total of \$96,000.

In an attempt to come within the money, the architects reduced the finish in the addition to that below the level of the existing portion. After careful consideration, it was thought to be unwise to have a marked difference in the finishes of the two areas as both will function as one unit in the future. When the architects were requested for a comparison of the finish in the proposed area with that of other institutions, Mr. Ralph Davis stated that the finish is far inferior to similar buildings at the Texas A & M, The University of Texas, SMU, TCU, Texas Western, University of New Mexico, Arizona State and the University of Arizona. Mr. Barrick estimated that the finish in the addition could be made the equivalent of that in the existing portion for an amount not to exceed \$30,000 and, perhaps, much less.

The V & N Construction Company promised to provide their work sheets for the architects and to negotiate for the additional basement space and finish at the costs shown in their original bid as nearly as possible.

The contract award and the proposed additions are to be presented to the HHFA for approval as rapidly as possible.

C. HHFA Loan

The original amount of the approved loan was \$910,000. The amount needed, excluding any additional floor space or upgrading of interior finishes, is \$617,611. Some adjustments will be made in the base figures as more information is available. The method of arriving at the \$617,611 figure is shown on the attached statement which is attached to and made a part of the Minutes. (Attachment No. 249, page 701)

D. Kitchen Equipment (Estimated amount, \$65,000)

The Building Committee authorized the CPC to advertise for bids, open bids and present a recommendation at a future Board meeting for a contract award.

(The Board of Directors approved the action.)

1241. Utilities

The Building Committee authorized the CPC to approve the design, take bids and award a contract not to exceed \$1,800 to provide the necessary masonry structure to house the switchgear equipment at the substation west of the Power Plant.

1242. Women's Gymnasium

Approved an extension of time of 20 days to the contract due to the delay caused by the bricklayers' strike during the month of June. The contractor had requested 27 days.

(The Board of Directors approved the action.)

M. L. Pennington
Chairman

Campus Planning Committee
 August 19, 1960
 Attachment No. 245
 Item 1234A

WATER CHILLING STATION NO. 1
 FOR TEXAS TECHNOLOGICAL COLLEGE
 LUBBOCK, TEXAS

TABULATION OF BIDS

AUGUST 17, 1960

CONTRACTOR	BID SEC.	TOTAL BIDS	Ackn. 1 Addendum	BIDDERS QUALIFICATIONS
Anthony Company Lubbock	x	\$258,000	x	x
Boyer Company Austin	x	238,637	x	x
Burden Brothers Dallas	x	262,970	x	x
General Engineering Ft. Worth	x	279,728	x	x
A. P. Kasch Big Spring	x	233,008	x	x
Martyn Inc. Dallas	x	261,830	x	x
Roche Newton Company Lubbock	x	233,898	x	x
Orndorff Ft. Worth				
P & C Mechanical Lubbock				
Ray Heating & Plumbing Lubbock	x	259,000	x	x
Rountree Company Lubbock	x	269,000	x	x
H. E. Taylor Lubbock				
Way Engineering Austin	x	264,418	x	x
R. M. Wells Quanah, Texas	x	269,000	x	x

ZUMWALT & VINTHER
 CONSULTING ENGINEERS
 LUBBOCK - DALLAS

Campus Planning Committee
 August 19, 1960
 Attachment No. 246
 Item 1234B

Z U M W A L T A N D V I N T H E R

Ross Zumwalt
 P. N. Vinther
 F. L. McFadden
 J. T. Worley
 R. E. Miller

CONSULTING ENGINEERS
 501 Mercantile Dallas Building
 Dallas 1, Texas

Jack F. Roberts
 Resident Engineer
 2109 Avenue Q
 Lubbock, Texas

August 19, 1960

Mr. Nolan Barrick
 Supervising Architect
 Texas Technological College
 Lubbock, Texas

Subject: Central Water Chilling Station No. 1

Dear Sir:

We feel that while a large number of bids were received on the subject project and while the bids were competitive that the total cost is in excess of any amount we could recommend for your consideration. This is due, in our opinion, to confusion concerning the acceptance of certain materials and certain manufacturers; to the restriction of some items to a particular noncompetitive brand; to the cost of some flexibility in the plant which perhaps might not be justified; and also to the cost of certain instrumentation of an academic or convenient nature and not absolutely essential for efficient operation.

We are of the opinion that this plant should cost \$200,000 or less. We will, at your instruction, revise certain portions of the specifications to eliminate all confusion possible; to ensure the maximum competition with acceptable materials; to simplify some piping and connections, and to eliminate any instrumentation not deemed absolutely essential and even possibly reduce some capacities or ratings; without substantially affecting the scope of the project. We will coordinate these revisions with you and Mr. Ray Downing as rapidly as possible so that the project cost can be reduced by negotiation or by rebidding prior to the next board meeting.

Mr. Fred Kasch of A. P. Kasch and Company has expressed a willingness to negotiate any or all of these items in a matter of days at the College's convenience. He has made this offer at no cost or obligation on the part of the College. He agrees with us regarding the possible cost reductions. He further states he will rebid the project with the proposed revisions, if negotiations are not acceptable.

Mr. Joe Boyer of Boyer Company has made similar offers and statements.

We have confidence in these contractors and will attest to their sincerity. Further, the College can receive full benefit from negotiation or rebidding.

We are at a loss to determine the bonafide low bidder. The two lowest bids: A. P. Kasch - \$233,008 and Roche Newton - \$233,898 were both qualified bids. The lowest bid without any qualification was Boyer Company - \$238,637. Our investigation has convinced us that Boyer Company would have been low if he had considered the qualification proposed.

Mr. Nolan Barrick
Page II

August 19, 1960
Subject: Water Chilling
Station No. 1

Due to the qualifications of the low bids, we feel that rebidding would be fairer for all the Contractors.

Our conclusion is and we recommend that all bids be rejected; that we make the necessary revisions and reissue the plans and specifications to secure new bids prior to the next board meeting.

Yours very truly,

ZUMWALT AND VINTHER

/s/ Jack F. Roberts

Jack F. Roberts
Resident Engineer

JFR:jc(d)

cc: Jim Worley

Campus Planning Committee
August 19, 1960
Attachment No. 247
Item 1235

TEXAS TECHNOLOGICAL COLLEGE
Lubbock, Texas

REVIEW OF
CONSTITUTIONAL BUILDING AMENDMENT FUNDS
August 18, 1960

Funds Available July 31, 1960	\$ 8,385,138
Estimated Investment Income to August, 1961	150,000
Total Funds August, 1961 (Estimated)	<u>\$ 8,535,138</u>

<u>Building</u>	<u>Revised Original Cost Estimate</u>	<u>Summary Actual, Estimated or Original Estimate</u>
Steam Boiler and Housing	\$ 250,000	\$ 232,796(c)
Classroom-Office	1,118,000	1,045,667(c)
Textile Engineering	290,000	293,206(c)
Science Addition	525,000	525,000(n)
Library (See Exhibit I F)	1,825,000	2,165,000(p)
Physical Plant and Press (1) (2)	535,000	522,472(c)
Mechanical Engineering Shops (1)	315,000	314,281(c)
Women's Gymnasium	250,000	289,411(c)
Computer-Architecture (3)	645,000	681,321(c)
Speech (See Exhibit I A)	117,000	117,000(p)
Relocation of Farm Facilities (4) (See Exhibit I B)	375,000	363,340(p)
Chemical Engineering (7)	324,895	324,895(c)
Nuclear Reactor (3) (6) (7)	180,105	270,337(s)
Agricultural Plant Sciences	375,000	379,139(c)
Psychology (4)	175,000	175,000(n)
TV Station	100,000	100,000(n)
Equipment for Buildings (See Exhibit I C)	415,000	415,000(p)
Utility Extensions (5) (See Exhibit I D)	420,000	566,111(p)
Walks and Drives (5) (See Exhibit I E)	80,000	80,000(p)
Tennis Courts		10,548(c)
Deep Soil Test		<u>3,290(c)</u>
Total	\$8,315,000	<u>\$8,873,814</u>
Balance		<u>\$ (338,676)</u>

- (1) \$40,000 transferred to Mechanical Engineering Shops from Physical Plant
 (2) \$75,000 transferred to Physical Plant from Press
 (3) \$20,000 transferred to Computer-Architecture from Chemical Engineering and Nuclear Reactor for air conditioning
 (4) \$100,000 transferred to Psychology from Relocation of Farm Facilities
 (5) \$270,000 transferred to Utility Extension from Walks, Drives, and Parking
 (6) Cost to exercise option to build Nuclear Reactor is shown in Summary Column
 (7) Original appropriation of \$505,000 prorated on basis of Chemical Engineering contract
- (c) Completed or under contract
 (n) No definite action taken on revised original appropriation
 (p) Partially contracted or recommended
 (s) Under contract option but further study and recommendations required
 () Red Figure

EXHIBIT I

TEXAS TECHNOLOGICAL COLLEGE
Lubbock, Texas

SCHEDULE OF PROJECTS TO BE COMPLETED IN STAGES

A. Speech

Appropriation		\$117,000
Stage at Dairy Barn (b)		<u>56,000</u>
Balance		<u>\$ 61,000</u>

B. Relocation of Farm Facilities

Appropriation		375,000
Meats Lab (c)	\$217,333	
Dirt Fill (c)	8,000	
Moving Feed Mill (c)	498	
Agronomy and Horticulture Metal		
Buildings (c)	24,509	
Dairy Facilities (r)	85,000	
Poultry Facilities (r)	24,000	
Swine Facilities (r)	4,000	
	<u>\$363,340</u>	<u>363,340</u>
Balance		<u>\$ 11,660</u>

C. Equipment for Buildings

Appropriation		\$415,000
Textile Engineering Building (c)	\$ 7,807	
Classroom-Office Building (c)	63,432	
Women's Gymnasium (c)	13,436	
Computer-Architecture (c)	<u>30,849</u>	<u>115,524</u>
Balance		<u>\$299,476</u>

D. Utility Extensions

Appropriation		\$420,000
Classroom-Office Building (c)	\$ 1,290	
Farm Residences Water Lines (c)	5,207	
Air Conditioning Survey (c)	7,500	
Agricultural Plant Sciences (c)	5,355	
Mechanical Engineering Shops (c)	6,783	
Telephone Conduit in West Engineering		
Area (c)	340	
Storm Sewer to 19th and College (b)	6,000	
6" Tap and 4" Meter (c)	1,275	
Switchgear and Expansion Joints (c)	38,825	
Electrical Extensions (c)	88,457	
Tunnel Extensions (c)	224,603	
Central Chilling Station Space (b)	78,992	
Water Lines and Sprinklers (b)	7,300	
Sewer Reroute at Library (b)	1,970	
Air Conditioning Service to Library (r)	35,144	
Central Chilling Station Unallocated		
Equipment (r)	32,000	
Relocation of Farm Facilities (r)	25,000	
Advertising for Bids (c)	<u>70</u>	<u>566,111</u>
Balance		<u>\$(146,111)</u>

() Denotes red figure

EXHIBIT I - Page 2

SCHEDULE OF PROJECTS TO BE COMPLETED IN STAGES (continued)

E. Walks, Drives and Parking Areas

Appropriation		\$ 80,000
West 14th Street, North of Textile (c)	\$ 7,363	
Women's Gymnasium Drive (c)	<u>3,718</u>	<u>11,081</u>
Balance		<u>\$ 68,919</u>

F. Library

Appropriation		\$1,825,000
General Contract (c)	\$1,836,162	
Elevator Contract (c)	66,360	
Architect's Fee (c)	95,126	
Air Conditioning Equipment (b) (e)	103,000	
Finish North or South Basement (r)	<u>64,352</u>	<u>2,165,000</u>
Balance		<u>\$(340,000)</u>

-
- (b) Approved by Board but not contracted
(c) Completed or Under Contract
(r) Recommended by Campus Planning Committee
(e) Estimated cost
- () Denotes red figure

TEXAS TECHNOLOGICAL COLLEGE
Lubbock, Texas

POSSIBLE ALLOCATION OF CONSTITUTIONAL BUILDING AMENDMENT FUNDS

Available Balance <u>IF</u> :	Available Balance
Priority list is completed as contracted, recommended or originally estimated	\$(338,676)
The following unstarted projects are deleted:	
TV Station \$100,000	
Nuclear Reactor 270,337	
Unused balance in Speech <u>61,000</u>	(431,337) 92,661
Additional equipment needs are added (a)	150,000 (57,339)
Psychology is increased to estimated needs	200,000 (257,339)

(a) Library and Agricultural Plant Sciences equipment needs will cause equipment cost to exceed original estimate.

() Denotes red figure.

ADDITIONS AND ALTERATIONS TO STUDENT UNION BUILDING
TEXAS TECHNOLOGICAL COLLEGE, LUBBOCK, TEXAS
HHFA Project No. Tex. CH-109(S)
August 18, 1960

TABULATION OF BIDS

Atcheson, Atkinson & Cartwright
Davis, Foster, Thorpe & Associates
Associated Architects & Engineers
Lubbock and El Paso, Texas

CONTRACTOR	BASE BID	ADDITIVE ALTERNATES									TOTAL	Ackn. Two Ad- denda	Bid Secu- rity
		#1 Faculty Lounge Finish	#2 Ballr'm Wainsc.	#3 Fold. Part.	#4 Ter- razzo	#5 Trazo. Lounge Porch	#6 Conc. Terrace	#7 P.A. System	#8 Side- walks Pav'g	#9 Tunnel			
Frank O. Bennett, Jr.	\$684,510	+6,835	+3,225	+15,300	+5,390	+1,365	+1,000	+3,470	+3,290	+4,600	\$728,985	x	x
Butcher & Sweeney Constr.	698,394	6,950	3,300	13,660	5,500	1,400	755	3,885	3,300	7,900	745,047	x	x
Cain & Cain	712,358	7,125	3,560	13,820	5,617	1,575	850	3,960	3,450	8,100	760,415	x	x
W. R. Grimshaw Co.	674,500	7,400	3,700	14,000	7,100	1,400	800	4,000	3,100	7,800	723,800	x	x
A. P. Kasch & Sons	690,754	6,870	2,575	13,315	6,400	1,285	1,806	3,700	2,100	5,286	734,091	x	x
C. H. Leavelle & Co.													
Lembke Construction Co.	675,705	4,821	3,836	14,173	5,395	1,363	660	3,922	3,395	6,282	719,552	x	x
Carl E. Maxey Constr.	685,000	6,420	2,770	13,700	5,107	1,352	1,286	3,998	3,114	6,674	729,421	x	x
J. M. Odom, Gen. Con.	694,880	5,750	4,400	13,900	5,300	1,450	830	3,900	3,040	8,200	741,650	x	x
H. A. Padgett, Jr.	683,475	6,822	3,019	15,983	5,666	1,480	1,256	3,490	2,970	5,190	729,351	x	x
Ramey Construction Co.	674,966	5,823	3,746	14,640	5,169	1,352	1,580	4,170	2,951	7,310	721,707	x	x
V & N Construction Co.	666,281	6,500	2,700	15,000	5,100	1,384	1,140	3,200	2,863	4,700	708,868	x	x
West Texas Builders	744,500	5,920	4,840	14,300	5,240	1,455	1,620	4,180	3,190	6,076	791,321	x	x
Wohlfeld Construction Co.	715,644	6,496	3,663	13,653	4,812	837	1,110	3,600	3,281	5,901	758,997	x	x

Campus Planning Committee
 August 19, 1960
 Attachment No. 249
 Item 1240C

TEXAS TECHNOLOGICAL COLLEGE
 Lubbock, Texas

Office of the Auditor

August 19, 1960

STUDENT UNION ADDITION

Base Bid	\$708,868
Architect's Fee	34,093
Kitchen Equipment	65,000
Utility Connections	40,000
Engineer's Fee	2,400
Air Conditioning Equipment	30,000
Site Improvement	5,000
Government Field Expense	7,500
Legal and Administration	5,000
Contingencies	40,000
Interest during Construction	<u>18,750</u>
	\$956,611
Less: Student Union Funds	260,000
Constitutional Amendment Tax	
Funds for Chilling Station Space	<u>79,000</u>
H.H.F.A. Funds	<u><u>\$617,611</u></u>

TEXAS TECHNOLOGICAL COLLEGE
Lubbock, Texas

MINUTES OF THE CAMPUS PLANNING COMMITTEE

Meeting No. 86 September 6, 1960

A meeting of the Campus Planning Committee was held at 8:30 a.m. on Tuesday, September 6, 1960 in Room 120 of the Administration Building. Members present were Mr. E. J. Urbanovsky, Mr. Nolan E. Barrick, Colonel C. P. West and Chairman M. L. Pennington. In addition, Mr. D. M. McElroy was present.

1243. Approval of Minutes

On motion by Mr. Urbanovsky, seconded by Mr. Barrick, the Minutes of Meetings Nos. 83, 84 and 85 were approved with the following addition to the Minutes of Meeting No. 85, Page 694 under Item No. 1236A - Alternates:

During the discussion of the Alternates, Mr. Pitts and Mr. Dick Phelps represented the Architects, and Mr. Charlie Morton represented Mr. J. M. Odom. Each of the above actions was acceptable to Mr. Morton. It was understood that the action does not preclude the Board from exercising any of the other Alternates on the six (6) months basis. All of the Alternates accepted are deductive except C-2, which is additive.

(The Board of Directors approved the action.)

II. Time Extension Requests

Approved an extension of time to the construction contract in the amount of three (3) days due to the heavy rains on July 5, 6, and 7, 1960.

(The Board of Directors approved the action.)

1244. President's Approval of Minutes

The Chairman reported that President Goodwin has approved the Minutes of Meetings Nos. 82, 83, 84, and 85.

1245. Agricultural Plant Sciences

A. Construction Progress

Mr. Barrick reported that the progress is satisfactory.

B. Solar Screen

Mr. Barrick reported that the architects have painted some of the tile a lighter color in the sample screen. It was agreed that there should still be some lighter tile and Mr. Barrick is to check on the possibility.

1246. Boiler and Housing

A. Boiler

The project still is not ready for final acceptance.

B. Housing

The contractor has yet to correct the few items needing attention.

1247. Central Chilling Station

The plans have been revised in accordance with the conference between the Supervising Architect and the engineers. Plans have been checked by Mr. Robert L. Mason and Mr. O. R. Downing, ads are being run, and the plans are out for bids. Bids are to be opened on September 15, 1960, at 2:00 p.m. and a recommendation is to be made to the Building Committee on September 16, 1960. ✓

1248. Chemical Engineering Building

Mr. Barrick reported that the progress is very satisfactory.

1249. Classroom-Office BuildingA. Progress Report on Punch List1. Chalkboards

Mr. Barrick reported that the painter was in the building last Thursday and checked over the chalkboards. The painter is to get a representative of the paint manufacturer on the site as he was generally of the impression that the wrong type paint may have been used. The paint was recommended by the manufacturer and the painter plans to see what the manufacturer will do about it.

2. Windows

The manufacturer has had a representative on the site and he has adjusted all windows. There has been no further report but there has been no dust or rain. S. R. Duncan has not recalked or repaired the mullions as he reported he would do.

3. Air Conditioning

The Project Architect, Mr. Turner Kimmel, is working on the problem but has made no report as yet. The strips may work and there are enough on hand if they are to be used. Mr. Kimmel is to present the problem to his engineer and will present his recommendations as soon as possible.

4. Sound and Transmission

Mr. Turner Kimmel is also working on some means to baffle the sound inside the building.

5. Air Intake Screens

Colonel West reported that Mr. Downing is of the opinion that the spring will successfully hold the screens in place. There is some question that the screens were installed properly; however, screens are being lost due to falling out and something must be done to prevent further loss. It was agreed that a check will be made to see if the screens were manufactured according to specifications and installed properly. A report is to be made at the next meeting.

6. Locks

The lock has been removed from Room 208 and has not been returned. Nothing has been done on the locks and the architects and the contractor have been notified. It is possible that some new doors may be needed as nothing can be done with those on hand. The Pittsburgh representative reports that the doors were all right at the time of delivery and that they were installed improperly.

1249. Classroom-Office Building (continued)A. Progress Report on Punch List7. General

As requested, Mr. Turner Kimmel has prepared a list of items which need to be done by the contractor in order that it may be presented to Mr. Warlick Carr, Attorney for S. R. Duncan, in an attempt to get the contractor to remedy the deficiencies. The list is attached to and made a part of the Minutes. (Attachment No. 250, page 710) The Chairman is to present the list to Mr. Carr.

B. Roof Leaks

The contractor has not repaired the damage to the inside plaster caused by roof leaks.

C. Bulletin Boards

Mr. McElroy reported that the bulletin boards will be ordered in the very near future.

(The bulletin boards have been referred to erroneously in past Minutes, as "directories.")

1250. Computer-ArchitectureA. Construction Progress

Mr. Barrick reported that very good progress is being made and the contractor is now installing the millwork.

B. Equipment1. Architecture and Allied Arts

All of the equipment is on order except the special items which must be constructed. Attempts are being made to reduce the cost before ordering the items.

2. Computer

The outline of operations has yet to be received and the equipment list cannot be prepared until the operations are known.

1251. Fanning, J. R.

Mr. Urbanovsky reported that he has talked with Mr. Fanning again. Mr. Fanning has not done the work and final payment will be withheld until the work is done. Mr. Urbanovsky was requested to remind Mr. Fanning that the students will report this weekend and that it would be highly advisable to have the work done prior to that time.

1252. LibraryA. Construction Progress

Mr. Barrick reported that the progress is very good and the contractor is now pouring concrete. The project is running extremely well and there will be no worry if progress continues in the same manner.

B. Alternates

The Project Architects are preparing the change order in keeping with Board action at the last meeting. There is nothing for the CPC to do on other Alternates at this time.

1252. Library (continued)C. Solar Screen and Brick Samples

The solar screen sample will not be ready for the September meeting as the Acme Brick Company has said that it will take six (6) weeks to manufacture the sample. It is scheduled to be ready for the October meeting. The delay should cause no complications.

All brick samples have been set up and some of the Board members examined them at the time of the last Board meeting. The exterior and some of the interior brick have been selected.

D. Lights

Mr. Barrick is to ask the Pickett Electric Company to delay the selection of lights for another thirty (30) days in order to provide time to study the fixture suggested by Mr. Pickett. The fixture has an A-rated ballast, quiet operation, good maintenance features and is manufactured by Guth.

E. Equipment

Mr. McElroy reported that he had discussed the equipment list with Mr. Janeway and that it seemed to be minimum to him.

F. Request for Dirt Hauling Charges

Mr. Barrick reported that he has had further correspondence in connection with the request, has again requested the amount of money, but has received no information on which to base a recommendation. Mr. Morton thinks that 5¢ per cubic yard is quite in line.

1253. Married Student Housing

Mr. McElroy presented his report which is to be studied and a recommendation made at a later meeting.

The Chairman reported that a representative of the Amarillo group thinks they will be able to construct 300 units for married student across Fourth Street from the Armories.

1254. Major Repairs and RehabilitationA. Reroofing 18 Temporary Buildings--\$4,464

Colonel West reported that the project is now complete and there is a balance of \$105.67. The balance is to be used on another project, perhaps to apply on the stonework at the Men's Gymnasium.

B. Replace Gas Line to Farm Area--\$4,500

Colonel West reported that the project has been completed and there is no balance in the appropriation.

C. Rehabilitation of Herd and Farm Houses and Poultry Laboratory Buildings (1959-60, \$4,000 - 1960-61, \$4,000)

Colonel West reported that work is being done on the last farm house as it is now vacant. Some complications are being experienced due to the extremely poor condition of the building.

It was agreed that it would be a proper charge to use the balance in the account for poultry facilities as they are replacements rather than new construction.

1254. Major Repairs and Rehabilitation (continued)

D. Repointing Stone and Brickwork and Waterproofing Exteriors of Science, Chemistry, and Other Buildings (1959-60, \$41,800 1960-61, \$37,600)

Mr. Barrick reported that the repairs are now coming along well and the work is again up to acceptable standards.

E. Chris Paschen Corporation

The Chairman reported that Mr. Johnny Reeves, Assistant Attorney General, has written the Corporation in an attempt to collect on the bid bond.

1255. Meats Lab

Mr. Barrick reported that progress is satisfactory although it is at a slow stage. The contractor is experiencing difficulty with the delivery of brick.

1256. Mechanical Engineering Shops

A. Construction Progress

Mr. Barrick reported that progress is very good. The project is closed in and the roof is being installed.

B. Equipment

Colonel West reported that a lathe and milling machine has been received from war surplus. The milling machine is new. The lathe has been used but is in good condition. The milling machine will fill the need for the smaller unit but not the larger one. Mr. Powers is of the opinion that it would be best to wait to see if the larger unit can be secured from surplus.

Consideration of other equipment will be delayed pending the outcome.

1257. Music Building

Mr. Barrick reported that he has had no chance to study the sound transmission problem in the west upstairs area.

1258. Operating Procedures

A. Campus Mail Service

Mr. McElroy reported that the request of the United States Post Office for additional services has not been prepared as yet.

B. Request for Time Extensions

It was agreed that time extensions, after approval by the Board of Directors, will be handled by change order to provide an official record. Mr. Barrick is to notify the architects to prepare the necessary change orders.

1259. Parking Lots

A. Controlled Lot

Mr. Urbanovsky reported that the base and pedestal trip have been installed and the gates will be installed by Friday of this week. Chief Daniels is preparing an article for The Toreador in order to notify those interested that the space is available.

B. Dirt Lot South of Dairy Barn

Mr. Urbanovsky reported that the dirt is in and the barriers are being installed. The lot will be ready for the opening of school.

1260. Physical Plant Facilities and Printing Press

Mr. Barrick reported that progress is good. Most of the steel structure is in place and work is starting on the masonry for the Press.

1261. Relocation of Farm Facilities

A. Agronomy

Mr. Barrick reported that the project is virtually complete, although there are some doors to be installed and a few other minor items. The contractor has apparently stopped work and no one knows just why.

B. Horticulture

The project is virtually complete with only a few corrections and clean up work yet to be done. The contractor has apparently ceased work on the project also.

C. Dairy

Mr. Barrick reported that the only item needed is information on the feeding system. Professor Neely has been trying to get the information from the manufacturer, but it has not arrived as promised. If it is received within the next few days, the deadline for presentation to the Building Committee on September 16, 1960 can be met.

D. Poultry

The plans and specifications are in the hands of the bidders at the present time. Bids are scheduled to be opened on September 15, 1960 at 2:30 p.m.

E. Student Housing

Mr. Barrick reported that it is still in the study stage and is not ready for presentation.

F. Livestock Facilities

Dean Gerald W. Thomas and Dr. Ralph M. Durham entered the meeting at 10:10 a.m. to discuss his request of September 1, 1960, to change the priorities list by moving the livestock facilities ahead of those for swine. The request was sent to all members of the CPC on September 2, 1960. A copy of his request is attached to and made a part of the Minutes. (Attachment No. 251, page 711)

The over-all ramifications of the request were discussed in detail. Among other items, the fact that fill has been available, more is yet to come from the Union basement, and the need to clean up the area were discussed at length. The CPC was of the opinion that it would be advantageous to provide the livestock facilities before providing those for swine and voted to recommend the change in the priority list.

Next, a sketch was presented on the general needs which included twenty-one (21) pens, service road, feeders, alley for drainage, sufficient space in the pens to prevent smell, sufficient storage, some automatic feeders but not enough to prevent the students from doing a good bit of the work, and other general features.

It was agreed that a thorough study would be made of the project including costs and means to tie the project to the over-all plan. Mr. Urbanovsky and Mr. Barrick were requested to work with Dean Thomas and Dr. Durham to develop the proposal and to report at a later meeting.

Dean Thomas and Dr. Durham left the meeting at 10:45 a.m.

1262. Science Building

In keeping with the instructions from the Board of Directors, Mr. Barrick reported that the layouts have been turned over to the architects and that he has walked over the site with them. He has requested the architects to present a complete schedule for the construction of the building. The picture has not been delivered as the College does not have one. The architects have some of their own but Mr. Vaughn or Mr. Tatum is to be requested to take a picture immediately and forward it to the Project Architects.

1263. Student Union

The Board of Directors authorized the CPC to request an increase of basement floor space and upgrade the interior finish with some adjustments to be made in the charges for the chilling station equipment and space.

The basic information is in and being compiled. It will be written up for presentation to the HHFA as soon as possible. As soon as the information is available, a meeting is to be requested with the officials of the HHFA and the material will be presented at the meeting.

The contract is being typed but it will be presented to the HHFA for approval before signatures are affixed in keeping with the Loan Agreement.

1264. Utilities

A. Water Lines and Sprinkler System

Mr. Urbanovsky reported that the transit pipe and fittings are yet to be delivered. The material is delaying progress.

B. Electrical Installation (Nelson Electric Company of Lubbock)

At 10:45 a.m., Mr. Jack Nelson and Mr. Adolph Hunt of Nelson Electric Company, Mr. Robert L. Mason, Mr. O. H. Wilson and Mr. Jack Roberts of Zumwalt and Vinther, and Mr. Bill Felty, Assistant Supervising Architect, entered the meeting.

Mr. Mason presented a very carefully developed plan on the necessary cut offs of electrical service and the contractor agreed with his plan. Under the plan, the cut offs can be made Thursday, Friday and Saturday nights of this week and have sufficient electricity to start school next week.

Some gear is still missing and is scheduled to be delivered immediately. According to Mr. Mason, the above plan was based on the immediate delivery of the gear. If it does not arrive, other arrangements will have to be made at a later date.

It is possible to get by with the service on the north side for some time if we have to. It will not be necessary to have the gear on the north side to handle the Stadium load as most of the campus will be fed from the south substation by that time. Some of the work will require shutdowns on the north side, but the installation to be completed this week will provide a minimum of inconvenience in the future.

The contractor will be behind on the completion date and it is not all his fault. Mr. Roberts is to have all information documented and presented. The contractor has been most cooperative in attempting to work out the best solution for the College in spite of some rather serious handicaps due, primarily, to the slow delivery of switchgear.

Mr. Nelson and Mr. Hunt left the meeting at 11:35 a.m.

1264. Utilities (continued)C. Tunnel and Other Utilities (Anthony Company of Lubbock)

Mr. Roberts reported that the main steam line is activated and steam is available for all buildings now needing it. The connection between the Veterinary Science and Agricultural Plant Sciences Building is being made and will be completed today. Work remains to be done on the line to the new Union and the new Library. The line under the street is being completed today and will be finished Monday. There are four crossings that lack only paving and one which lacks concrete and paving. All will be patched and paved by next Monday. The steam and chilled water lines across Boston will be completed by Monday also.

Mr. Roberts left the meeting at 12:05 p.m.

D. House for Substation West of Power House

Mr. Barrick reported that the plans and specifications have been completed and are out for bids at the moment. Bids are due on September 10, 1960.

1265. Veterinary SciencePost Mortem Room

It has been impossible to complete the plans and specifications, as there are still some items which need additional study and clarification.

1266. Walks, Drives and Parking Lots

Mr. Urbanovsky reported that the curb and gutter at the northeast corner of the Women's Gym are in place and most of the street base has been installed. Many of the girls parked on the area on Monday and prevented the contractor from finishing the paving. The work should be completed in the next day or so.

1267. Women's GymA. Construction Progress

Mr. Barrick reported that progress is very satisfactory. The contractor is finishing out the painting at the present time.

B. Estimated Completion Date

The contractor is of the opinion that he may complete the work during the latter part of September. However, Mr. Barrick was of the opinion that October 1, 1960 may be about the earliest date for completion.

C. Equipment

Mr. McElroy reported that the equipment is scheduled for delivery about October 1, 1960.

M. L. Pennington
Chairman

The meeting adjourned at 12:20 p.m.

Campus Planning Committee
September 6, 1960
Attachment No. 250
Item No. 1249-A-7

T H E B U T L E R - K I M M E L C O M P A N Y

412 Avenue M
M. C. Butler

ARCHITECTS

Lubbock, Texas
R. Turner Kimmel, A.I.A.

September 1, 1960

Mr. Nolan E. Barrick
Supervising Architect
Texas Technological College
Lubbock, Texas

Re: Classroom-Office Building,
Texas Technological College

Dear Mr. Barrick:

In accordance with our discussion, in the meeting with you and Mr. Pennington this morning, we are enclosing a list of the items that need to be repaired and taken care of on the above referenced project before the start of the fall semester.

We have brought these items to the attention of the contractor by telephone and various correspondence over the past several months, and have endeavored to arrange a meeting between a representative of the contractor, the College, and ourselves, to no avail.

Last Monday afternoon after I talked with you, I talked with Mr. S. R. Duncan, and he said he had a previous engagement on Tuesday and could we meet Wednesday. Then, after talking with you and setting the meeting for Thursday, September 1, 1960, at 10:00 a.m., I again talked with Mr. Duncan. He agreed to the time and date, and asked that we remind him Thursday morning so that he wouldn't forget the meeting. Wednesday afternoon I called Mr. Duncan's office and left word with his secretary to remind him of the Thursday meeting. Thursday morning my secretary again called and left word with Mr. Duncan's secretary of our scheduled meeting. Of course, you are aware of the results.

We have endeavored to make the enclosed list all inclusive. We have gone through our records, checked correspondence and telephone calls we have received from your office, plus a personal inspection of the building; however, we feel that if a conference can be set up with the contractor, you, the contractor and ourselves should make another inspection of the facility as a double check of these items.

If we can be of further assistance in helping to expedite this work, we are readily available.

Very truly yours,

THE BUTLER-KIMMEL COMPANY

R. Turner Kimmel, A.I.A.

Encl.
RTK/tw

CLASSROOM-OFFICE BUILDING
TEXAS TECHNOLOGICAL COLLEGE

The following is a list of items that need to be repaired on this building:

1. Water leak in Room 216-C.
2. Leaks in stair at east entrance.
3. Leaks in window wall at main entrance.
4. Leak in west stair tower at downspout southeast wall.
5. Leaks in window wall west stair tower of center portion of building.
6. Locks on many interior doors not locking properly.
7. Locks on exterior doors not locking properly.
8. Door binding in Men's Toilet Room, second floor.
9. Vent screens under spandrel around perimeter of building not securely anchored.
10. Metal loose on column at east entrance to west stair tower.
11. Paving at loading dock on west service drive needs patching.
12. Flooring and base loose in Dean's Office and a number of places over the building.
13. Caulking at mullions around windows needs checking, and some recaulking.
14. Crack in tile wall first floor, east entrance at corridor. Tile loose and some need replacing.
15. Resurface chalkboards.

Some of these items may have been taken care of. Since we did not have access to all of the building, it was impossible to check all of the items on this list.

Campus Planning Committee
September 6, 1960
Attachment No. 251
Item No. 1261-F

TEXAS TECHNOLOGICAL COLLEGE

School of Agriculture

Lubbock, Texas

Office of the Dean

September 1, 1960

Mr. M. L. Pennington
Vice President and Comptroller
Campus

Re: Relocation of Farm Facilities

Dear Mr. Pennington:

I would like to propose to the Campus Planning Committee a slight change in the priorities for movement of farm and livestock facilities.

As you know, we have for some time been stressing the value of adequate fill and drainage for our livestock facilities. When the opportunity arose to utilize the dirt from the new Library excavation, we were most pleased to make arrangements for this dirt. However, in order to accommodate the large volume available, we razed most of our beef cattle feeding pens. We have retained only a few pens for emergency use, and it appears now that dirt will be available to fill this remaining area. It seems to us that this is the logical and most economical time to raze these remaining pens and complete the grading of the area.

In our original plans, we had placed the swine facilities in the next order of priority. With the present opportunity to complete our fill and grading, it now appears that we should consider our beef cattle feeding facilities first. As you know, we have about \$40,000.00 worth of silage on hand for the feeding studies this fall. This research has received a great deal of interest, and will contribute substantially to our teaching program, as well as provide valuable feeding information to the area.

It is, therefore, recommended that the funds designated for swine (\$4,000.00), and the undesignated balance, be utilized to rebuild the beef cattle feeding facilities. If this meets with your approval, plans will be submitted as rapidly as possible so that we may meet the necessary construction deadline for use of these feeding pens this fall. These facilities will be comparatively simple to construct, consisting largely of fences and feed grain storage.

Your reaction to this proposal will be appreciated.

Very truly yours,

/s/ Gerald W. Thomas

Gerald W. Thomas
Dean of Agriculture

GWT:cld
cc: Dr. Durham

TEXAS TECHNOLOGICAL COLLEGE
Lubbock, Texas

MINUTES OF THE CAMPUS PLANNING COMMITTEE

Meeting No. 87 September 14, 1960

A meeting of the Campus Planning Committee was held at 8:00 a.m. on Wednesday, September 14, 1960 in Room 120 of the Administration Building. Members present were Mr. Nolan E. Barrick, Colonel C. P. West and Chairman M. L. Pennington. In addition, Mr. D. M. McElroy was present.

1268. Approval of Minutes

On motion by Colonel West, seconded by Mr. Barrick, the Minutes of Meeting No. 86 were approved.

1269. President's Approval of Minutes

The Chairman reported that President Goodwin approved the Minutes of Meeting No. 86 on September 13, 1960.

1270. Boiler and Housing

The boiler contractor has installed supports under the induced draft fan but a check has not been made to see if the vibration has been corrected.

1271. Central Chilling Station

Bids are due to be opened at 2:00 p.m. on Thursday, September 15, 1960, and a recommendation made to the Building Committee on Friday, September 16, 1960, at 4:00 p.m.

1272. Library

A. Status in Change Orders

Mr. Barrick reported that the Project Architects have almost completed the preparation of the change orders and have instructed the contractor to purchase the materials needed for the change orders in order not to delay the acquisition.

B. Lights

Mr. Barrick reported that Mr. Pickett of the Pickett Electric Company has told him that he is in no hurry to select the light fixtures as he wants to check out thoroughly the Guth fixture, the A-rated ballast, additional costs, etc. He was reluctant to give an official 30-day delay but said that it would be longer than 30 days before he has completed his study of the fixtures.

1273. Relocation of Farm Facilities

A. Dairy Facilities

1. Plans and Specifications

Mr. Barrick reported that he and his staff are making every effort to have the plans and specifications ready for presentation to the Building Committee on Friday.

2. Facilities Included in the Plans and Specifications

The plans and specifications which are being prepared include only the milking parlor and do not include, at this time, the feeding barn, maternity barn and calf barn, all of which are included in the estimated amount of \$85,000 for Dairy Facilities.

1273. Relocation of Farm Facilities (continued)B. Poultry Facilities

At the time of the last meeting of the CPC, one set of plans had been issued but it has been recalled as some items needing additional clarification have arisen.

The CPC voted to recommend a delay in the presentation of the plans and specifications and a meeting will be held in the near future to iron out the complications.

C. Livestock Facilities

In view of the action of the CPC at the last meeting (Item 1261-F, page 707), the change in priorities from swine to livestock facilities will be made to the Building Committee.

1274. Other ItemsRequest from Lubbock Citizens Traffic Commission

President Goodwin requested the CPC to make a recommendation on the request from the Lubbock Citizens Traffic Commission to erect a sign, at the corner of Fourth Street and the Brownfield Highway, showing the number of deathless days in Lubbock and an appeal for safe driving.

The Traffic Commission has done an outstanding job in promoting safe driving and it was, with regret, that after very careful consideration, the CPC voted to recommend against the placing of the sign on College property as many requests have been received in the past and once the College breaks over, there will be no way to limit them. Some of the requests which have been declined in the past were the traffic fatalities, Community Chest, Athletic Schedule and Reese Air Force Base.

It is the feeling of the CPC that the signs should be limited to college functions.

1275. Student Union

Mr. Barrick reported that the Project Architects had submitted information this week on the estimated cost of increasing the size of the basement, a revised cost schedule on the Central Chilling Station space and equipment and a schedule showing a comparison of the finish schedules between the existing and proposed portions of the building. The schedules are attached to and made a part of the Minutes, along with Mr. Barrick's letter of transmittal dated September 13, 1960. (Attachment No. 252, page 715)

Due to the fact that additional space is needed and there will never be another opportunity at a reasonable cost to provide additional basement space, the CPC recommended that attempts be made to increase the square footage request to 17,000 square feet, subject to approval by the HHFA and the Board of Directors. A talk with the HHFA officials indicates that it will be necessary for the Union to deposit more funds into the Construction Account. The Union officials feel that the space can be put to very excellent usage. The allocation of funds for the central chilling space and equipment will depend on the amount of space in the basement.

Mr. Barrick and the Chairman are to meet with the HHFA officials in Fort Worth on Thursday morning, September 15, 1960, at 8:30 a.m., in an attempt to implement the action of the Board of Directors at the last meeting. Mr. Ralph Davis, of the Project Architects, will be present also.

1276. Utilities (continued)House for the Substation

Bids were opened and read aloud at 2:00 p.m. in Room 120 of the Administration Building on September 10, 1960, in the presence of eleven interested persons. A copy of the tabulations is attached to and made a part of the Minutes. (Attachment No. 253, page 716)

Knox and Gailey were low with a bid of \$1,775.00. The alternate was included in the bid to test the cost of the two materials as it was not known at the time of the plans and specifications which material would be cheaper. If the alternate were accepted, there would be a delay of approximately six weeks in the delivery of materials and it is necessary that the switchgear be covered as soon as possible. Further study revealed that some savings could be obtained by substituting six inch bark texture hollow brick in lieu of the eight inch velure texture as specified. The substitution of material would provide a better match with existing brick in color and texture and would do the job equally as well. The contractor offered a credit of \$55.00 for the substitution. The price was checked and found to be in line.

The CPC voted to award the contract, in keeping with the action of the Board of Directors at the last meeting, to Knox and Gailey of Lubbock in the amount of \$1,720.00. The contractor has been notified and the contract is being prepared.

M. L. Pennington
Chairman

The meeting adjourned at 9:10 a.m., with the agreement that it will be necessary to meet again before the meeting of the Building Committee on Friday, September 16, 1960, at 4:00 p.m.

Campus Planning Committee
 September 14, 1960
 Attachment No. 252
 Item 1275

TEXAS TECHNOLOGICAL COLLEGE
 Lubbock, Texas

Office of the Supervising
 Architect

September 13, 1960

Mr. M. L. Pennington
 Vice President and Comptroller

Re: Student Union Building Addition

Dear Mr. Pennington:

I have tried to reconstruct the sequence of events on the referenced project in an effort to document the changes in design and especially the modification of size. It should be borne in mind that this has been a long time project dating back to 1954, and the events listed herein would apply only to this final stage of development which is pertinent to the HHFA application.

1. 28 May 1959 - On this date the Office of the Supervising Architect received a priority listing from Mr. Nelson Longley which formed the basis for our planning activity. The schematic developed in the Office of the Supervising Architect by Mr. Dudley Thompson, dated 9 June 1959, was developed from Mr. Longley's priority list and contained a total of 61,302 square feet.
2. 2 July 1959 - On this date Mr. M. L. Pennington and William G. McMin, of the Office of the Supervising Architect, went to the Fort Worth office of the HHFA to discuss the preliminary application for loan assistance on the construction of the Student Union Building Addition. The schematic plan of 9 June 1959, was used for reference and the discussion with the HHFA office resulted in the recommendation by that office that the loan application be increased because they did not feel that the unit price of \$17.00 per square foot, that we had assigned to our schematic plan, was adequate for the construction. This resulted in an increase of \$160,000 in the loan application.
3. 8 July 1959 - The Building Committee of the Board of Directors was polled for permission to amend the application to the larger amount with a favorable vote resulting.

It would be well at this point to emphasize the fact that the Architectural firms employed on the project had not been requested to render any service in the preparation of the foregoing plan. The reason for this fact was that the project seemed to be fairly indefinite, and the College did not wish to be committed for the payment of professional fees in the event the project did not go forward into actual construction.

The following sequence of events cannot be tabulated according to date with any real assurance of accuracy. I will attempt to give a chronological order of circumstances insofar as I can recall them, and point out dates as they may be available from the file.

- Item 1. Immediately after the preliminary application to the HHFA, we released our schematic plan and the list of priorities to the Architects. They worked with the schematic plan for a time and expressed to us very serious doubts as to the feasibility of building the Building within the budget set up. They presented their objection on two basic points. (a) The total square foot area was out of line with the money available. (b) The Schematic plan we had developed necessitated an extremely complicated structural system, which would enormously increase the cost of construction.

September 13, 1960

Item 2. 7 October 1959 - The Architects submitted a partial cost breakdown supporting their foregoing contentions that the plan and structure of the schematic design submitted to them was unreasonably costly. Several suggestions for revisions were made by the College and by the Architects, but these did not result in further reasonable development of the basic scheme provided by the College to the Architects.

Item 3. 12 November 1959 - The Architects submitted a revised plan, somewhat reduced in scope, and with it they furnished an estimate showing clearly that the Building was not within the budget.

Item 4. Subsequent meetings from time to time between the Architects and the Campus Planning Committee resulted in a refinement of design, further reducing the area and the cost to bring the entire project in line with the estimate. These refinements were in reality reductions in size and in quality of finish of the interior spaces for the most part. The gross area of the Building was reduced from the 61,302 square feet in the initial schematic plan of 9 June 1959, to 47,782 square feet in the plan dated 9 December 1959, and used as the basis for the final application to HHFA.

In the process of developing the working drawings, the area of the Building was increased approximately 5,000 square feet at the insistence of the Owner. This increase was largely in the basement area and consisted of unfinished space. Certain upgrading of finish in the faculty dining room was incorporated at the insistence of the Owner, and a connecting tunnel between the new basement and the basement of the existing Union Building was included, again at the insistence of the Owner. In each case, the Architect notified the Owner in writing that these changes were not included in the final estimate of the design and would, therefore, be items of additional expense for which no provision was made in the existing budget. On several occasions, we expressed serious concern to the Architects and to others involved in the planning of the project about the fact that the cost of the Building seemed to be set unusually high for the quality of finish and the scope of the project. We were continually assured that the estimates were not unduly high and that we could expect the cost to be somewhat in line with the estimates.

The matter of budget was such a serious consideration within the entire planning phase that the Dean of Student Life and the Director of the Union were requested by this office to make recommendations on reductions in specified areas that they would be willing to accept in order to "decrease the size of the proposed Union Building expansion to bring the total cost within the budgeted amount." We received a list of thirteen items on 17 November 1959 from the Office of the Dean of Student Life giving a listing, in order of preference, of concessions they were willing to make in order to keep the project alive.

The foregoing is in no way meant to criticize anyone in the development of this project. A part of the discrepancy between the estimated cost and the bid figures undoubtedly is the timing of taking of bids. This was a most favorable situation insofar as the bidding procedure was concerned. The sequence of events, however, would clearly point up the fact that the original scope of the project was not seriously out of line with the budget picture, and that the reduction in scope, made because of a feeling of urgent necessity, actually reduced the project considerably below that which was originally intended and envisioned.

At the request of this office, the Architects have explored the feasibility of expanding the square footage to a point somewhat more nearly the commensurate with the original project. Four basic approaches to this expansion are appended hereto.

Mr. M. L. Pennington

Page 3

September 13, 1960

It is also apparent that some error was present in the calculation of the cost of the space for the Central Chilling Station, which was to be located in the basement of the Student Union, and the proper percentage of the cost of the chilling equipment which should be assigned to the Student Union project itself. These two items are handled in a separate attachment and should be considered in the final settlement of the account.

A separate attachment also covers the comparable finishes in the existing Union Building and in the Addition to the Union Building. It will be readily seen that the quality of interior finish, with the single exception of the faculty dining area, is substantially below that in the existing Union Building. It is estimated that approximately \$30,000 will be needed to bring the finishes of the new part of the Building in line with those in the existing building.

I trust that the foregoing will cover all of the points that are pertinent in this matter. I am confident that there are important details that have been omitted, but this covers the high points in the development of the project insofar as I can document them or recall them.

Very truly yours,

/s/ Nolan E. Barrick

Nolan E. Barrick, A.I.A.
Supervising Architect

NEB:bb(d)

Attachments

STUDENT UNION ADDITION
CENTRAL CHILLING STATION SPACE

A A & C Estimate - 10,396 sq. ft. @ \$8.90 = \$92,992.00

Proportionate Use:

Union (Present) 7.5% = \$7,000.00

Union (Future) 7.5% = 7,000.00

Union Building Funds \$14,000.00

Other Funds \$78,992.00*

- - - - -

Actual Design Space - 5,614 sq. ft. @ \$6.00 = 33,684.00

Union (Present) 177 Tons

Union (Future) 150 Tons

Funds for space 327T/1,600T = 20.4% = 6,800.00
used by Union

Other Funds 26,884.00**

CHILLING EQUIPMENT

Estimated amount in application to be included in Union Project (Based on initial 800T Station Capacity) 30,000.00

- - - - -

Revised amount to be included in Union Project (Based on anticipated cost of \$200,000 for 800T Station Capacity)

1) Union Addition requires 177T

177T/800T = 22.2% = 44,400.00

2) Basement (Base Bid Area)

13.5T/800T = 1.7% = 3,400.00

3) Expanded Basement (17,000 sq. ft.)

23+/800T = 2.9% = 5,800.00

* Deposited in Construction Account by owner based on estimates.

** Total amount that should be deposited by owner based on actual design and contract costs.

TECH STUDENT UNION ESTIMATES

9-10-60
ALA
R.D.Finish Exist. Basement - 10,612 sq. ft.

Finish work	\$23,237/10,612 sq. ft.	=	\$ 2.18 sq. ft.
Mech & Elec	<u>16,746/10,612 sq. ft.</u>	=	<u>1.57</u> " "
	<u>\$39,983</u>		\$ 3.75

New Basement - 17,000 sq. ft.

Shell only	\$65,736/17,000 sq. ft.	=	\$ 3.86 sq. ft.
Finish work	37,500/17,000 sq. ft.	=	2.20 " "
Mech & Elec	<u>38,500/17,000 sq. ft.</u>	=	<u>2.27</u> " "
	<u>\$141,736</u>		\$ 8.33

Second Floor - 12,800 sq. ft.

Shell only	\$90,725/12,800 sq. ft.	=	\$ 7.08 sq. ft.
Finish work	23,500/12,800 sq. ft.	=	1.83 " "
Mech & Elec	<u>36,900/12,800 sq. ft.</u>	=	<u>2.89</u> " "
	<u>\$151,125</u>		\$11.80

Small Basement - 10,292 sq. ft.

Shell only	\$44,458/10,292 sq. ft.	=	\$ 4.30 sq. ft.
Finish work	25,228/10,292 sq. ft.	=	2.44 " "
Mech & Elec	<u>25,989/10,292 sq. ft.</u>	=	<u>2.51</u> " "
	<u>\$95,675</u>		\$ 9.25

STUDENT UNION BUILDING
TEXAS TECHNOLOGICAL COLLEGE

FINISH SCHEDULE

Existing Building

Proposed Addition

Basement Area (Mechanical)

Unfinished

Basement Area (Mechanical & Recreation)

Unfinished

First Floor Area

Lobbies:

Floors: Terrazzo -----
Wainscots: Roman Brick-----
Walls: Sand Fin. Plas.-----
Ceilings: Acous. Plas. & -----
 Sand Fin. Plas.
Trim: Oak -----

Vestibules

Terrazzo
None
Face Brick
Susp. Fibergl.
Oak

Lounges:

Floors: Terrazzo -----
Wainscot: None -----
Walls: Bleached Mahogany-----
 & Sand Fin. Plas.
Ceilings: Acous. Plas. & -----
 Sand Fin. Plas.
Trim: Bleached Mahog. & -----
 Oak

Terrazzo
Roman Brick
Exp. Conc. Blk.
Susp. Fibergl.
Oak

Stairs:

Stair & Landings: Terrazzo-----
Walls: Sand Fin. Plas.-----
Ceilings: Sand Fin. Plas.-----

Terrazzo
Exp. Conc. Blk.
Susp. Fibergl.

Corridors:

Floors: Terrazzo -----
Wainscots: Roman Brick-----
Walls: Sand Fin. Plas.-----
Ceilings: Acous. Plas. & -----
 Sand Fin. Plas.
Trim: Oak -----

Terrazzo
Roman Brick
Sand Fin. Plas.
Susp. Fibergl.
None

Offices:

Floors: Asphalt Tile -----
Wainscots: None -----
Walls: Sand Fin. Plas.-----
Ceilings: Sand Fin. Plas.-----
Trim: Oak -----

Vinyl Asb.
None
Exp. Conc. Blk., Reception in oak
Susp. Fibergl.
Oak

First Floor Area (Continued)

Rooms:

Floors: Gr. Proof Asph. Tile ---	Vinyl Asb. Tile
Wainscot: Roman Brick -----	None, Roman Brick
Walls: San Fin. Plas. -----	Exp. Conc. Blk.
Ceiling: Acous. Plas. & -----	Susp. Fibergl.
Sand Fin. Plas.	
Trim: Oak -----	Oak

Toilet Rooms:

Floors: Terrazzo -----	Ungl. Cer. Tile
Wainscot: Gl. Cer. Tile -----	Gl. Cer. Tile
Walls: Sm. Cem. Plas. -----	Sm. Fin. Plas.
Ceilings: Acous. Plas. -----	Acoust. Plas.
Trim: Wh. Pine -----	Metal

Kitchens:

Floors: Gr. Proof Asph. Tile ----	Cem. Fin.
Wainscot: None -----	Glazed Cer. Tile
Walls: Sm. Cem. Plas. -----	Sm. Cem. Plas.
Ceiling: Sm. Cem. Plas. -----	Sm. Cem. Plas.
Trim: White Pine -----	Metal

Second Floor Area

Meeting Rooms:

Floors: Maple, Vinyl Covered	
Cork, Asph. Tile, Rubber Tile -----	Vinyl Asb.
Wainscot: Walnut, Oak & None ----	None
Walls: Oak, Sand Fin. Plas. -----	Brick, Exp. Conc. Blk., Sand Fin. Plas.
Ceilings: Acous. Plas. -----	Susp. Fibergl.
Trim: Oak -----	Oak

Corridors:

Floors: Terrazzo, Gr. Proof Asph.	Terrazzo
Wainscots: None, Face Brick ----	Face Brick
Walls: Oak, Sand Fin. Plas. -----	Sand Fin. Plas.
Ceilings: Acous. Plas. & -----	Susp. Fibergl.
Sand Fin. Plas.	
Trim: Oak & White Pine -----	Metal

Toilet Rooms:

Floors: Terrazzo	
Wainscots: Gl. Cer. Tile	
Walls: Sm. Fin. Plas.	N O N E
Ceilings: Acous. Plas.	
Trim: White Pine	

Existing Building

Proposed Addition

Second Floor Area (continued)

Lounges:

Floors: Terrazzo -----
 Wainscots: None -----
 Walls: Sand Fin. Plas. -----
 Ceilings: Acous. Plas. -----
 Trim: White Pine -----

Lobby:

Terrazzo
 Roman Brick
 Sand Fin. Plas.
 Susp. Fibergl.
 Metal

Ballroom:

Floors: Maple -----
 Wainscot: None -----
 Walls: Oak -----
 Ceiling: Acous. Plas. -----
 Trim: Oak -----

Oak Bondwood
 Oak
 Exp. Conc. Blk.
 Susp. Fibergl.
 Oak

Campus Planning Committee
 September 14, 1960
 Attachment No. 253
 Item No. 1276

SWITCHGEAR HOUSING
 FOR
 TEXAS TECHNOLOGICAL COLLEGE
 Lubbock, Texas

10:00 A.M.
 September 10, 1960

Room 120
 Administration Bldg.

TABULATION OF BIDS

Contractor	Base Bid	Alt. #1	No. of Days	Bid Security
H. R. Bundock, Inc.	\$2,370.00	Add \$145.00	40 C. D.	x
Knox & Gailey	1,775.00	Add 75.00	25 C. D.	x
H. C. Lewis	1,950.00	Add 85.00	30 C. D.	x
C. M. Pharr	2,140.00	Add 35.00	45 C. D.	x
Harden Construction Company	2,190.00	Add 400.00	30 C. D.	x

TEXAS TECHNOLOGICAL COLLEGE
Lubbock, Texas

MINUTES OF THE CAMPUS PLANNING COMMITTEE

Meeting No. 88

September 16, 1960

A meeting of the Campus Planning Committee was held at 8:00 a.m. on Friday, September 16, 1960, in Room 120 of the Administration Building. Members present were Mr. Nolan E. Barrick, Colonel C. P. West and Chairman M. L. Pennington. In addition, Mr. D. M. McElroy was present.

1277. Central Chilling Station

The original bids were taken on August 18, 1960 and the low bid was \$233,008. The Board of Directors, at the last meeting, rejected the bids and instructed the CPC to take new bids on revised plans.

New bids were opened and read aloud on September 15, 1960 in the Aggie Auditorium in the presence of 30 interested persons. (Attachment No. 254, page 720)

The low base bid was offered by the Boyer Company of Austin in the amount of \$199,639. The Company is well-qualified and experienced, has recently completed three similar installations, and is installing another at The University of Texas at this time. There seemed to be no question but that the Company would be an acceptable contractor.

Mr. R. L. Mason, Mr. Ray Downing and Mr. Jack Roberts recommended the acceptance of Alternate #1, which provides a credit of \$246 for the use of foamglas insulation, Alternate #2 which provides a credit of \$203 for use of a canvas jacket, Alternate #7A which adds \$2,350 for steam flow meters, and Alternate #7B which adds \$450 for chilled water flow meters. The net amount of the Alternates is an addition of \$2,351 to the base bid.

In order that additional time may be available to investigate the possibility of using a plastic or wooden cooling tower, the low bidder has agreed to hold open Alternates #4 and #5 until November 1, 1960. In all probability, the wooden cooling tower would not be satisfactory but the plastic tower offers some good possibilities and a potential savings of \$10,200.

After full consideration, the CPC voted to recommend the acceptance of the low bid, Alternates #1, #2, #7A and #7B, and the award of a contract in the amount of \$201,990 to the Boyer Company of Austin, with the understanding that Alternates #4 and #5 will be held open until November 1, 1960.

1278. Relocation of Farm Facilities

A. Dairy

Mr. Barrick presented the final plans for the milking parlor and stated that Mr. Koy Neeley has worked very closely with him and his staff on the preparation. The size has been reduced to 2,000 square feet and attempts have been made to provide a utilitarian building. Studies were made in an attempt to use a prefabricated metal building for economical purposes but one could not be found that would be satisfactory. The use of glazed brick on the inside seemed to be the cheapest material that can be cleaned and provide the required sanitary measures. The exterior is to be the standard face brick. The roof is to be the flat built-up type. The basic equipment for the milking stanchions, piping for the milking machines and the mechanical equipment, such as pumps, are included in the

1278. Relocation of Farm Facilities (continued)

specifications. There is nothing pretentious about the building as it is as simple as it can be and still provides the necessary facilities. Some information is still needed on the feed bins to complete the plans.

The CPC voted to recommend the plans to the Building Committee. As soon as the feed bin information is received, it will be incorporated in the plans. Also, it is recommended that the bids and the recommendation for a contract award be presented to the Board of Directors at the December meeting.

B. Poultry Facilities

The CPC voted to recommend another delay in order to study last minute information.

1279. Student Union

At the last meeting, the Board of Directors accepted the base bid in the amount of \$708,868 and instructed the CPC to request additional basement space, the upgrading of finishes in the new portion and to reallocate the costs of the central chilling space and equipment.

In order to carry out the instructions of the Board, the HHFA Officials were requested to outline the proper method of procedure. They advised that, as soon as the cost estimates were ready, the request should be set out in detail in letter form and presented at a meeting. They explained that one of the most difficult requests to get approved is one to increase the size when the project is underbid and the only request even more difficult is to increase the interior finish when a contract is underbid. Under such circumstances, the maximum amount of additional funds which could be spared by the College should be included. The letter dated September 14, 1960 is attached to and made a part of the Minutes. (Attachment No. 255, page 721)

Mr. Barrick and the Chairman met with the HHFA officials in Fort Worth on September 15, 1960 and presented the request as set out in the letter. The HHFA requested additional funds from the College for the following reasons:

"The fact that Texas Tech was willing to go out for bids on the reduced basis indicated that the space provided would be reasonably adequate or the Board of Directors and the College Administration would have made some attempts to secure additional funds to increase the cost estimates. Now, when bids have been taken and it is found that funds are left, the space is not adequate. It looks as if the availability of the leftover funds has a bearing on the request. Also, had additional funds not been available, the contract probably would have been let. You have presented a good case and we are impressed. However, we believe you could have got by with the space provided in the bid. If the Board feels that the space should be increased, we believe the Board should help and believe that a minimum of an additional \$100,000 should be added by the College."

1279. Student Union (continued)

After thorough discussion and evaluation, the HHFA agreed to the following changes, subject to approval by the Board of Directors:

Increasing the basement space by 17,000 square feet at a cost of \$141,736; improving the finishes of the new portion excluding the basement space in the base bid in an amount not to exceed \$30,000; finish the basement space in the base bid at a cost of \$39,983 (\$23,237 for finish work and \$16,746 for the mechanical and electrical needs); change the amount set up for the Union's portion of the space for the central chilling station from \$14,000 to \$6,800 (included in base bid); reallocate the costs to the Union for chilling equipment by increasing the pro-ration from \$30,000 to \$44,400; include equipment to cool the space in the basement in the base plan at \$3,400 and include equipment to cool the additional 17,000 square feet at an estimated cost of \$5,800.

The estimated total project cost would be \$1,191,930 and the estimated net loan from the HHFA would be \$805,046, as shown on the attached report. (Attachment No. 256, p. 722). The HHFA Loan Agreement provides an amount up to \$910,000.

Due to the fact that much time has passed in the development of the plans and specifications, the amount of \$100,000 is available for use on the project and would leave sufficient funds to procure the movable furniture. It was felt that it would be better to provide as much money as possible to reduce the amount of the loan.

After very careful consideration, the CPC voted to present the recommendation to the Building Committee.

1280. UtilitiesHouse for Switchgear -

The CPC voted to recommend the use of the Unappropriated Balance to finance the construction.

M. L. Pennington
Chairman

The meeting adjourned at 9:05 a.m. The

Campus Planning Committee
September 16, 1960
Attachment No. 254
Item 1277

WATER CHILLING STATION NO. I
FOR TEXAS TECHNOLOGICAL COLLEGE
LUBBOCK, TEXAS

ZUMWALT & VINTHER
CONSULTING ENGINEERS
LUBBOCK, TEXAS

TABULATION OF BIDS

CONTRACTOR	BID SEC.	Ackn. 3 Addenda	BASE BID	ADDITIVE OR DEDUCTIVE ALTERNATES									BIDDERS QUALIFICATIONS	
				#1 Foamglas Insulation	#2 Canvas Jacket	#3 Smaller Absorption Unit	#4 Polystyrene Tower	#5 Fir Wood Tower	#6 Wiring to Power Plant	#7 Flow Meters				
										A	B	C		
Boyer Company Austin	X	X	\$ 199,639	-246	-203	-6000	-10,200	-12,800	-2,400	+2350	+450	+600	X	
Way Engineering Austin														
A. P. Kasch Big Spring	X	X	208,007	-1800	-150	-8,300	-13,000	-13,000*	-2,410	+2600	+500	+600	F.S.	
**Burden Bros. Dallas	X	X	(236,000) -24,270 211,730	+1000	-500	-5,000	(-15,000) No Bid	-12,000	(-1,000) -1,500 -2,500	+2000	+800	+1000	P.S.	
Martyn Inc. Dallas														
General Engineering Ft. Worth	X	N.A.	221,980	-250	-200	-5,100	-12,800	-12,800	-5,000	+2769	+630	+817	P.S.	
Neill's Midland	X	N.A.	208,224	*** 269	*** 221	*** 7,895	No Bid	*** 16,490	*** 3,620	+870	+440	+578	X	
Anthony Company Lubbock	X	X	205,000	+400	-400	-6,100	No Bid	-13,000	-3,325	+900	+500	+650	X	
Ray Heating & Plumbing Lubbock	X	N.A.	217,800	+450	-340	-5,600	No Bid	-10,000	-2,410	+2278.75	+745	+955	P.S.	
H. E. Taylor Lubbock	X	X	214,215 -5,570 208,645	-246	-203	-7,008	No Bid	*** 12,807	-2,410	+2728	+604	+772	X	
P & C Mechanical Lubbock	X	N.A.	221,500	-250	-210	-6,000	No Bid	-12,500	-4,900	+2415	+460	+615	X	
Roche Newton Co. Lubbock	X	X	204,500	-246	-203	-7,500	No Bid	-12,807	-2,825	+2364	+700	+780	P.S.	
Rountree Co.	X	N.A.	215,000	-265	-218	**** -21,400	No Bid	-13,700	-2,600	+1820	+510	+653	P.S.	

**** With smaller Wood Tower (all others with Ceramic) ***Add or Deduct not indicated

N.A. = Not Acknowledged

P.S. = Previously Submitted

*Written amounts do not agree with figures, written amount shown

**Telegraphic Amendment Deduct \$24,700 from Base Bid No Bid Alt.#4; Alt.#6 Deduct \$1500 more

Texas Technological College
Lubbock, Texas

Campus Planning Committee
September 16, 1960
Attachment No. 255
Item 1279

Office of the Vice President
and Comptroller

September 14, 1960

Mr. Travis William Miller
Deputy Regional Director
HOUSING AND HOME FINANCE AGENCY
300 West Vickery Boulevard
Fort Worth 4, Texas

Re: Tex. CH-109(S)
Texas Technological College
Student Union Addition

Dear Mr. Miller:

At the meeting of the Board of Directors on August 20, 1960 (Item No. 2983), the Board approved the following:

"... a Resolution awarding a contract in the amount of \$708,868 to V & N Construction Company, 202 37th Street, Lubbock, Texas, for the construction of an Addition to the Student Union Building and for Certain Alterations in the Existing Facilities subject to final approval of the Housing and Home Finance Agency.

"The motion also instructed the Campus Planning Committee to investigate the possibility of upgrading the finish of the interior of the building and the addition of a basement to the new building."

Additional Basement Space

The original estimate of square footage needed in the project was 61,302 and that is the amount on which the preliminary approval by the Housing and Home Finance Office was granted. The Project Architects studied the schematic plan and list of priorities which were included in the preliminary approval and stated that the proposed amount of square footage could not be provided for the amount of money available. They presented cost figures to support their contentions.

As a result, a great deal of study went into a revised plan to bring the project in line with the money available. The result was a reduction of floor space to 47,782 square feet and in the quality of interior finish. In the process of developing working drawings, approximately 5,000 square feet were added back at the insistence of the College. The increase was largely in the basement area and consisted of unfinished space. Some upgrading of the finish in the faculty dining room and a connecting tunnel between the new basement and basement of the existing Union Building were included at the insistence of the owner. In each case, the Architects notified the College in writing that the changes were not included in the final estimate of design and would, therefore, be items of additional expense for which no provision was made in the existing budget. Concern was expressed by the College to the Architects on a number of occasions that their estimates were too high for the quality of finish and the scope of the project. They continually assured the owner that the estimates were not unduly high and that the cost would be in line with the estimates.

As a result, the gross area of the project was reduced from 61,302 square feet in the initial schematic plan of June 9, 1959 to 47,782 square feet in the plan dated December 9, 1959 and used as the basis for the final application to the HHFA.

In attempting to work out a reasonable request to add basement space as instructed by the Board of Directors, the Union Officers were asked for their recommendation. They requested as much basement space as possible

Mr. Travis William Miller

-2-

September 14, 1960

with the statement that it is needed for additional display workshops such as the Home Economics Workshop; Music listening rooms; additional meeting rooms as the original request has been reduced until there is insufficient space on campus for the 135 student organizations which meet regularly; storage space for the operation of the Union as there is very little provided; program work areas to make scenery, decorations, signs and other items for the operation; recreation areas as the only space available is the unfinished basement and the old "Recreation Hall" which must be removed when the new addition is completed; and, if there is enough room, space would be provided for a barber shop and beauty parlor as requested by many of the students. Also, the books and periodicals browsing room could be moved to the basement. The actual usage would be dependent on the amount of available space.

There are two ways of providing more space for the Union in keeping with the original need for floor space. One is to add the rest of the second floor and the other is to add to the basement. The second story can be added at a future date without affecting the present structure. So, no request for additional space on the second floor is included. The basement space can be added only at this time on an economical basis. There will be future needs for additional space and there will be a shortage of available land for expansion. The most economically feasible solution is to increase the size of the basement.

As a result of the Board action, the circumstances of the design, and the need, the Project Architects were requested to study the possibilities of adding basement space and the estimated cost. The Architects reported that additional basement space is possible and highly advisable. They estimate that 10,292 square feet can be added for \$95,675 and that a maximum amount of 17,000 square feet can be added for \$141,736. The cost per square foot would be cheaper if the larger area is added. The prices include the finishing of the basement but would not include partitions which can be added later as needed or as more detailed plans can be developed.

Permission is requested to increase the basement space by 17,000 square feet at an estimated cost of \$141,736. Due to the length of time in the preparation of plans, additional funds are available to the College and, subject to approval of the Board of Directors, it is proposed to add \$100,000 to the project cost. The additional sum probably would be contingent on not having to deposit funds for movable equipment for six months or so.

Interior Finishes

Due to economy measures as mentioned earlier, the finishes in the new portion are inferior to those in the existing area. The finishes were specified in an attempt by the Architects to bring the project within the money and were economy measures entirely. A copy of the finish schedules in the two areas is attached.

The College would like to improve the quality of finish in the new portion to be comparable to that of the existing portion without becoming plush. The Architects estimate that the finishes can be made comparable for a sum not to exceed \$30,000. Additional time would be required, if it is acceptable to you, to determine the exact costs.

In an attempt to be sure that the request to improve the quality of the finishes was reasonable, the Architects were asked for comparison with Union facilities in other institutions. Mr. Ralph Davis, of the Project Architects, reported that the finishes are far below those of similar buildings at Texas A & M, the University of Texas, SMU, TCU, Texas Western, University of New Mexico, University of Arizona and Arizona State.

The \$30,000 covers all of the new portion except the unfinished basement in the base bid. It is estimated that the cost to finish it would be \$39,983, \$23,237 for finish work and \$16,746 for the mechanical and electrical needs.

Mr. Travis William Miller

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September 14, 1960

As the finishes were reduced below the standard for Texas Tech solely as an economical measure and are below that of comparable institutions, permission is requested to upgrade the finishes to that of the existing portion and to finish the unfinished portion of the basement.

Central Chilling Station Space Charged to Union

The original estimate and the basis on which the request was made was 10,396 square feet at \$8.80 of which 7.5% would be charged to the Union for present needs and 7.5% would be charged to the Union for future needs, a total of 15% and \$14,000. The other \$78,992 was to come from non Union construction funds.

The final design included only 5,614 square feet and the cost, at the best estimate available, was only \$6.00 per square foot, making a total cost of \$33,684, rather than \$92,992 as shown in the original estimate. The cost is based on the base bid of the low bidder. The Architects and Engineers estimate that 177 tons of cooling equipment will be required for the Union as shown in the base bid and estimate that 150 tons of capacity should be reserved for the future use of the Union, a total of 327 of a capacity of 1600 tons or 20.4%. The estimated cost of the Union is \$6,800 rather than the \$14,000 estimated above. The other \$26,884 would come from non Union construction funds, if it is acceptable to you.

Permission is requested to change the amount set up for the Union's portion of the space in the Central Chilling Station from \$14,000 to \$6,800.

Chilling Equipment

The estimated amount in the application for the portion chargeable to the Union was \$30,000. The revised amount to be included in the Union Project (based on an anticipated cost of \$200,000 for an 800 ton station capacity) would be 177 of 800 tons which would be 22.2% or \$44,400. An additional requirement of 13.5 tons would be required to air conditioning basement area in the base bid and the cost would be \$3,400 (1.7% of \$200,000). If the basement increase of 17,000 square feet should be included, there would be an additional cost of \$5,800 for the 23 plus tons of chilling equipment (2.9%).

New bids are to be opened at 2:00 p.m. on September 15, 1960 on the chilling equipment. Subject to revisions necessitated by the new bids, permission is requested to reallocate the costs to the Union by increasing the proportion from \$30,000 to \$44,400, to cool the basement space in the base plan at an estimated cost of \$3,400 and to cool the additional 17,000 square feet requested at an estimated cost of \$5,800.

In keeping with requirements of Form CFA-235, attached is a copy of Proof of Advertising and the Resolution Listing Bids Received, Determining the Lowest and Best Bid and Awarding Contract.

We shall be grateful to you for your consideration. If you need additional information, we shall welcome the opportunity to supply it.

Very sincerely yours,

M. L. Pennington
Vice President and
Comptroller

MLP:g

Enclosures

cc: Dr. R. C. Goodwin
Mr. Nolan E. Barrick
Mr. John G. Taylor

Campus Planning Committee
 September 16, 1960
 Attachment No. 256
 Item 1279

TEXAS TECHNOLOGICAL COLLEGE
 Lubbock, Texas

STUDENT UNION ADDITION

Summary of Estimated Costs
 and Sources of Funds

Base Bid	\$708,868	
Architect's Fee	34,093	
Kitchen Equipment	65,000	
Utility Connections	40,000	
Engineer's Fee	2,400	
Air Conditioning Equipment	30,000	
Site Improvement	5,000	
Government Field Expense	7,500	
Legal and Administration	5,000	
Contingencies	40,000	
Interest during Construction	<u>18,750</u>	
Subtotal		\$ 956,611
If following are added:		
17,000 sq. ft. basement space	\$141,736	
Upgrade finishes of new portion	30,000	
Finish Basement space in base bid	39,983	
Air Conditioning:		
Allocation over estimate	14,400	
Additional 17,000 sq. ft.	5,800	
Basement in base bid	<u>3,400</u>	<u>235,319</u>
Total Project Cost		\$1,191,930
Less:		
Union funds deposited	\$260,000	
Additional Funds	100,000	
Other funds for non-union portion of chilling space	<u>26,884</u>	<u>386,884</u>
Net Amount of Loan from HHFA		<u>\$ 805,046</u>

*Haley, ... Refuse, ...
met again Friday morning - Mr Haley, Mr. Hinn, Mr. Smith, and
H. M. C. P. John?*

PROPOSED AGENDA FOR THE JOINT MEETING OF THE BUILDING COMMITTEE
AND THE CAMPUS PLANNING COMMITTEE TO BE HELD AT 4:00 P.M.
SEPTEMBER 16, 1960, IN THE OFFICE OF THE PRESIDENT

1281. Central Chilling Station

Consider the following recommendation of the CPC:

The original bids were taken on August 18, 1960 and the low bid was \$233,008. The Board of Directors, at the last meeting, rejected the bids and instructed the CPC to take new bids on revised plans.

New bids were opened and read aloud on September 15, 1960 in the Aggie Auditorium in the presence of 30 interested persons. A copy of the bid tabulation is attached.

The low base bid was offered by the Boyer Company of Austin in the amount of \$199,639. The Company is well-qualified and experienced, has recently completed three similar installations, and is installing another at The University of Texas at this time. There seemed to be no question but that the company would be an acceptable contractor.

Mr. R. L. Mason, Mr. Ray Downing and Mr. Jack Roberts recommended the acceptance of Alternate #1, which provides a credit of \$246 for the use of foamglass insulation, alternate #2 which provides a credit of \$203 for use of a canvas jacket, Alternate #7A which adds \$2,350 for steam flow meters, and Alternate #7B which adds \$450 for chilled water flow meters. The net amount of the alternates is an addition of \$2,351 to the base bid.

In order that additional time may be available to investigate the possibility of using a plastic or wooden cooling tower, the low bidder has agreed to hold open Alternates #4 and #5 until November 1, 1960. In all probability, the wooden cooling tower would not be satisfactory but the plastic tower offers some good possibilities and a potential savings of \$10,200.

After full consideration, the CPC voted to recommend the acceptance of the low bid, Alternates #1, #2, #7A and #7B, and the award of a contract in the amount of \$201,990 to the Boyer Company of Austin, with the understanding that Alternates #4 and #5 will be held open until November 1, 1960.

Recommended by Bldg. Comm.

OK

Laurel

1282. Relocation of Farm Facilities

A. Dairy Facilities

Consider approval of plans and specifications for milking parlor as recommended by CPC, *add list of information on feed bins; add it, put out for ideas & make recommendations at December 10 Board meeting.* *Est. Cost \$75,000 - with alternate for tile roof.*

B. Poultry Facilities

Consider recommendation of CPC that presentation of the final plans and specifications be delayed again in order to consider some last minute information.

C. Livestock Facilities

Consider recommendation of the CPC to switch places of the swine and livestock facilities on the priority list.

1283. Student Union

Consider recommendation of CPC as follows:

At the last meeting, the Board of Directors accepted the base bid in the amount of \$708,868 and instructed the CPC to request additional basement space, the upgrading of finishes in the new portion and to reallocate the costs of the central chilling space and equipment.

In order to carry out the instructions of the Board, the HHFA Officials were requested to outline the proper method of procedure. They advised that, as soon as the cost estimates were ready, the request should be set out in detail in letter form and presented at a meeting. They explained that one of the most difficult requests to get approved is one to increase the size when the project is underbid and the only request even more difficult is to increase the interior finish when a contract is underbid. Under such circumstances, the maximum amount of additional funds which could be spared by the College should be included. The letter dated September 14, 1960 is attached.

Mr. Barrick and the Chairman met with the HHFA officials in Fort Worth on September 15, 1960 and presented the request as set out in the letter. The HHFA requested additional funds from the College for the following reasons:

"The fact that Texas Tech was willing to go out for bids on the reduced basis indicated that the space provided would be reasonably adequate or the Board of Directors and the College Administration would have made some attempts to secure additional funds to increase the cost estimates. Now, when bids have been taken and it is found that funds are left, the space is not adequate. It looks as if the availability of the leftover funds has a bearing on the request. Also, had additional funds not been available, the contract probably would have been let. You have presented a good case and we are impressed. However, we believe you could have got by with the space provided in the bid. If the Board feels that the space should be increased, we believe the Board should help and believe that a minimum of an additional \$100,000 should be added by the College."

1283. Student Union (continued)

After thorough discussion and evaluation, the HHFA agreed to the following changes, subject to approval by the Board of Directors:

Increasing the basement space by 17,000 square feet at a cost of \$141,736; improving the finishes of the new portion excluding the basement space in the base bid in an amount not to exceed \$30,000; finish the basement space in the base bid at a cost of \$39,983 (\$23,237 for finish work and \$16,746 for the mechanical and electrical needs); change the amount setup for the Union's portion of the space for the central chilling station from \$14,000 to \$6,800 (included in base bid); reallocate the costs to the Union for chilling equipment by increasing the proration from \$30,000 to \$44,400; include equipment to cool the space in the basement in the base plan at \$3,400 and include equipment to cool the additional 17,000 square feet at an estimated cost of \$5,800.

The estimated total project cost would be \$1,191,930 and the estimated net loan from the HHFA would be \$805,046, as shown on the attached report. The HHFA Loan Agreement provides an amount up to \$910,000.

Due to the fact that much time has passed in the development of the plans and specifications, the amount of \$100,000 is available for use on the project and would leave sufficient funds to procure the movable furniture. It was felt that it would be better to provide as much money as possible to reduce the amount of the loan.

After very careful consideration, the CPC voted to present the recommendation to the Building Committee.

4 Comm. 2 days, 1 may - Mr. Daley -

1284. UtilitiesHouse for Substation

Approve the action of the CPC, in keeping with the instructions of the Board of Directors, in awarding the contract to Knox and Gailey of Lubbock, the low bidders, in the amount of \$1,720, the amount to be paid from the Unappropriated Balance as it is a replacement of a building that was razed at the site of the Agriculture Plant Sciences Building.

OK

TABULATION OF BIDS

WATER CHILLING STATION NO. I
FOR TEXAS TECHNOLOGICAL COLLEGE
LUBBOCK, TEXAS

ZUMWALT & VINTHER
CONSULTING ENGINEERS
LUBBOCK, TEXAS

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**** With smaller Wood Tower (all others with Ceramic) ***Add or Deduct not indicated

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**Telegraphic Amendment Deduct \$24,700 from Base Bid No Bid Alt.#4; Alt.#6 Deduct \$1500 more

Texas Technological College
Lubbock, Texas

Office of the Vice President
and Comptroller

September 14, 1960

Mr. Travis William Miller
Deputy Regional Director
HOUSING AND HOME FINANCE AGENCY
300 West Vickery Boulevard
Fort Worth 4, Texas

Re: Tex. CH-109(S)
Texas Technological College
Student Union Addition

Dear Mr. Miller:

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"... a Resolution awarding a contract in the amount of \$708,868 to V & N Construction Company, 202 37th Street, Lubbock, Texas, for the construction of an Addition to the Student Union Building and for Certain Alterations in the Existing Facilities subject to final approval of the Housing and Home Finance Agency.

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September 14, 1960

with the statement that it is needed for additional display workshops such as the Home Economics Workshop; Music listening rooms; additional meeting rooms as the original request has been reduced until there is insufficient space on campus for the 135 student organizations which meet regularly; storage space for the operation of the Union as there is very little provided; program work areas to make scenery, decorations, signs and other items for the operation; recreation areas as the only space available is the unfinished basement and the old "Recreation Hall" which must be removed when the new addition is completed; and, if there is enough room, space would be provided for a barber shop and beauty parlor as requested by many of the students. Also, the books and periodicals browsing room could be moved to the basement. The actual usage would be dependent on the amount of available space.

There are two ways of providing more space for the Union in keeping with the original need for floor space. One is to add the rest of the second floor and the other is to add to the basement. The second story can be added at a future date without affecting the present structure. So, no request for additional space on the second floor is included. The basement space can be added only at this time on an economical basis. There will be future needs for additional space and there will be a shortage of available land for expansion. The most economically feasible solution is to increase the size of the basement.

As a result of the Board action, the circumstances of the design, and the need, the Project Architects were requested to study the possibilities of adding basement space and the estimated cost. The Architects reported that additional basement space is possible and highly advisable. They estimate that 10,292 square feet can be added for \$95,675 and that a maximum amount of 17,000 square feet can be added for \$141,736. The cost per square foot would be cheaper if the larger area is added. The prices include the finishing of the basement but would not include partitions which can be added later as needed or as more detailed plans can be developed.

Permission is requested to increase the basement space by 17,000 square feet at an estimated cost of \$141,736. Due to the length of time in the preparation of plans, additional funds are available to the College and, subject to approval of the Board of Directors, it is proposed to add \$100,000 to the project cost. The additional sum probably would be contingent on not having to deposit funds for movable equipment for six months or so.

Interior Finishes

Due to economy measures as mentioned earlier, the finishes in the new portion are inferior to those in the existing area. The finishes were specified in an attempt by the Architects to bring the project within the money and were economy measures entirely. A copy of the finish schedules in the two areas is attached.

The College would like to improve the quality of finish in the new portion to be comparable to that of the existing portion without becoming plush. The Architects estimate that the finishes can be made comparable for a sum not to exceed \$30,000. Additional time would be required, if it is acceptable to you, to determine the exact costs.

In an attempt to be sure that the request to improve the quality of the finishes was reasonable, the Architects were asked for comparison with Union facilities in other institutions. Mr. Ralph Davis, of the Project Architects, reported that the finishes are far below those of similar buildings at Texas A & M, the University of Texas, SMU, TCU, Texas Western, University of New Mexico, University of Arizona and Arizona State.

The \$30,000 covers all of the new portion except the unfinished basement in the base bid. It is estimated that the cost to finish it would be \$39,983, \$23,237 for finish work and \$16,746 for the mechanical and electrical needs.

September 14, 1960

As the finishes were reduced below the standard for Texas Tech solely as an economical measure and are below that of comparable institutions, permission is requested to upgrade the finishes to that of the existing portion and to finish the unfinished portion of the basement.

Central Chilling Station Space Charged to Union

The original estimate and the basis on which the request was made was 10,396 square feet at \$8.80 of which 7.5% would be charged to the Union for present needs and 7.5% would be charged to the Union for future needs, a total of 15% and \$14,000. The other \$78,992 was to come from non Union construction funds.

The final design included only 5,614 square feet and the cost, at the best estimate available, was only \$6.00 per square foot, making a total cost of \$33,684, rather than \$92,992 as shown in the original estimate. The cost is based on the base bid of the low bidder. The Architects and Engineers estimate that 177 tons of cooling equipment will be required for the Union as shown in the base bid and estimate that 150 tons of capacity should be reserved for the future use of the Union, a total of 327 of a capacity of 1600 tons or 20.4%. The estimated cost of the Union is \$6,800 rather than the \$14,000 estimated above. The other \$26,884 would come from non Union construction funds, if it is acceptable to you.

Permission is requested to change the amount set up for the Union's portion of the space in the Central Chilling Station from \$14,000 to \$6,800.

Chilling Equipment

The estimated amount in the application for the portion chargeable to the Union was \$30,000. The revised amount to be included in the Union Project (based on an anticipated cost of \$200,000 for an 800 ton station capacity) would be 177 of 800 tons which would be 22.2% or \$44,400. An additional requirement of 13.5 tons would be required to air conditioning basement area in the base bid and the cost would be \$3,400 (1.7% of \$200,000). If the basement increase of 17,000 square feet should be included, there would be an additional cost of \$5,800 for the 23 plus tons of chilling equipment (2.9%).

New bids are to be opened at 2:00 p.m. on September 15, 1960 on the chilling equipment. Subject to revisions necessitated by the new bids, permission is requested to reallocate the costs to the Union by increasing the proportion from \$30,000 to \$44,400, to cool the basement space in the base plan at an estimated cost of \$3,400 and to cool the additional 17,000 square feet requested at an estimated cost of \$5,800.

In keeping with requirements of Form CFA-235, attached is a copy of Proof of Advertising and the Resolution Listing Bids Received, Determining the Lowest and Best Bid and Awarding Contract.

We shall be grateful to you for your consideration. If you need additional information, we shall welcome the opportunity to supply it.

Very sincerely yours,

M. L. Pennington
Vice President and
Comptroller

MLP:g

Enclosures

cc: Dr. R. C. Goodwin
Mr. Nolan E. Barrick
Mr. John G. Taylor

TEXAS TECHNOLOGICAL COLLEGE
Lubbock, Texas

STUDENT UNION ADDITION

Summary of Estimated Costs
and Sources of Funds

Base Bid	\$708,868	
Architect's Fee	34,093	
Kitchen Equipment	65,000	
Utility Connections	40,000	
Engineer's Fee	2,400	
Air Conditioning Equipment	30,000	
Site Improvement	5,000	
Government Field Expense	7,500	
Legal and Administration	5,000	
Contingencies	40,000	
Interest during Construction	<u>18,750</u>	
Subtotal		\$ 956,611
If following are added:		
17,000 sq. ft. basement space	\$141,736	
Upgrade finishes of new portion	30,000	
Finish Basement space in base bid	39,983	
Air Conditioning:		
Allocation over estimate	14,400	
Additional 17,000 sq. ft.	5,800	
Basement in base bid	<u>3,400</u>	<u>235,319</u>
Total Project Cost		\$1,191,930
Less:		
Union funds deposited	\$260,000	
Additional Funds	100,000	
Other funds for non-union portion of chilling space	<u>26,884</u>	<u>386,884</u>
Net Amount of Loan from HHFA		<u>\$ 805,046</u>

TEXAS TECHNOLOGICAL COLLEGE
Lubbock, Texas

MINUTES OF THE CAMPUS PLANNING COMMITTEE

Meeting No. 89 September 17, 1960

A joint meeting of the Building Committee of the Board of Directors and the Campus Planning Committee was held on September 17, 1960, at 8:30 a.m. in Room 120 of the Administration Building.

Members of the Building Committee present were Mr. J. Evetts Haley, Chairman, Mr. Harold Hinn and Mr. Wilmer Smith. Members of the Campus Planning Committee present were Mr. Nolan E. Barrick and Colonel C. P. West. The Chairman, M. L. Pennington, entered just before the meeting ended. In addition, Mr. D. M. McElroy was present.

An informal meeting was held on the evening of September 16, 1960 to discuss the items on the Agenda. Those present were Mr. J. Evetts Haley, Mr. Manuel DeBusk, Mr. Nolan E. Barrick, Colonel C. P. West, Mr. D. M. McElroy, Mr. John G. Taylor and M. L. Pennington.

In order that the results of the meeting of the Board of Directors may be included in the Campus Planning Committee Minutes for record purposes, the action taken by the Board of Directors at the meeting on September 17, 1960 will follow that of the Building Committee for each item.

The Building Committee took the following actions:

1281. Central Chilling Station

Accepted the low base bid of the Boyer Company of Austin in the amount of \$199,639, Alternate No. 1 which provides a credit of \$246 for the use of Foamglas insulation, Alternate No. 2 which provides a credit of \$203 for the use of a canvas jacket, Alternate No. 7A which adds \$2,350 for steam flow meters, and Alternate No. 7B which adds \$450 for chilled water flow meters. The total amount of the contract award is \$201,990. The contract was approved with the understanding that Alternates No. 4 and No. 5 will be held open until November 1, 1960 by the contractor. (An Air Mail, Special Delivery letter was received from Mr. Boyer during the Board Meeting on September 17, 1960 in which he stated that he would hold open Alternates No. 4 and No. 5 until November 3, 1960.)

(The Board of Directors approved the action.)

1282. Relocation of Farm Facilities

A. Dairy Facilities

Approved the plans and specifications for the milking parlor, the taking of bids and a recommendation for contract award to be made at the meeting of the Board on December 10, 1960, with the stipulation that an alternate be taken for a tile roof.

B. Poultry Facilities

Approved the delay of the presentation of final plans and specifications.

C. Livestock Facilities

Approved switching the places of the swine and livestock facilities on the priority list.

(The Board of Directors approved the actions.)

1283. Student Union

Approved an increase in the basement space by 17,000 square feet at a cost of \$141,736; upgrading the finishes of the new portion, excluding the basement space in the base bid, in an amount not to exceed \$30,000; finishing the basement space in the base bid at a cost of \$39,983; changing the amount set up for the Union's portion of the space for the Central Chilling Station from \$14,000 to \$6,800 (included in base bid); reallocating the cost to the Union for chilling equipment by increasing the proration from \$30,000 to \$44,400; including equipment to cool the space in the basement in the base plan at \$3,400; and including equipment to cool the additional 17,000 square feet at an estimated cost of \$5,800.

(The Board of Directors voted to approve all items in the recommendation with the exception of the 17,000 square feet of additional space in the basement and stipulated that additional funds be added to the construction cost to offset the increases.)

1284. UtilitiesHouse for Substation

Approved the contract award to Knox and Gailey of Lubbock, the low bidders, in the amount of \$1,720, the amount to be paid from the Unappropriated Balance.

(The Board of Directors approved the action.)

M. L. Pennington
Chairman

TEXAS TECHNOLOGICAL COLLEGE
Lubbock, Texas

MINUTES OF THE CAMPUS PLANNING COMMITTEE

Meeting No. 90 September 30, 1960

A meeting of the Campus Planning Committee was held on Friday, September 30, 1960, at 8:30 a.m. in Room 120 of the Administration Building. Members present were Mr. E. J. Urbanovsky, Mr. Nolan E. Barrick, Colonel C. P. West and Chairman M. L. Pennington. In addition, Mr. D. M. McElroy was present.

1285. Other Business

Farm Residence at Fourth and Quaker

The house has been officially abandoned as a farm residence for quite a few years. With Board approval, the house was given to the Texas Tech Rodeo Association to salvage the material for the arena but later the Association requested to be relieved of the responsibility as it was not economically feasible to raze the structure. Vandals have broken all the window lights and sashes and many of the doors. Most of the plumbing has been removed by unknown persons.

Attempts have been made to sell the house without success. Mr. McElroy reported that Mr. Herb Hall of Lubbock has offered to raze the house for the materials.

After discussion, the CPC voted to recommend that the house be given to Mr. Hall to raze and clear the site. It was agreed that the Chairman would consult with Dean Thomas to see if he concurs and, if so, what, if any, facilities should remain and how much site clearance should be done. It was thought that the windmill should remain and that it would be probably unfair to ask Mr. Hall to fill in the storm cellar.

As Mr. Hall needs to know rather quickly, it was agreed that the Building Committee would be polled by telephone for permission to make the agreement with Mr. Hall.

1286. Women's Gym

Tennis Courts

The Chairman reported that Dr. Mary B. Dabney had written a letter concerning the status of the outdoor facilities at the new Women's Gymnasium, with the statement that it would be extremely difficult to move to the new building and carry on the proper educational program without adequate outside facilities, with particular emphasis on tennis courts.

After discussion, the CPC felt that six asphalt tennis courts should be provided with the least possible delay. It was estimated that the cost, with the necessary fence, would be approximately \$2,600 each. It was agreed that the Grounds Department would take up the sprinklers and water lines under the area and remove the few necessary trees. It will be necessary to provide drainage through the area by running a drain pipe under the courts. The baseball field would need to be tied into the backstop and steps would be taken to provide the necessary sidewalks.

1286. Women's Gym (continued)

Mr. Urbanovsky and Mr. Gosdin were to begin immediately to draw the necessary plans and specifications and locate the courts in order that they could be installed with the least possible delay. As soon as the information is available, the recommendation is to be made to the Building Committee of the Board in order to move as expeditiously as possible.

M. L. Pennington
Chairman