

JUL 21 1966

TEXAS TECHNOLOGICAL COLLEGE  
Lubbock, Texas

Office of the  
President For Business Affairs

MINUTES OF THE CAMPUS PLANNING COMMITTEE

Meeting No. 302

July 14, 1966

A meeting of the Campus Planning Committee was held at 1:30 p.m. on July 14, 1966, in Room 120 of the Administration Building. Members present were Chairman M. L. Pennington and Nolan E. Barrick. Mr. E. J. Urbanovsky is in the hospital. Also present from the College staff were Mr. John G. Taylor, Mr. O. R. Downing, Miss Evelyn Clewell, Dr. Bill Kitchen and Miss Jerry Kirkwood. Mr. Howard Schmidt, Consulting Architect, was also present.

3397. Correction to the Minutes

Item 3379, Campus Planning Committee Minutes, Meeting No. 299, June 14, 1966, paragraph number five should read as follows:

"The above equipment would carry the demands made by the existing buildings, the buildings under construction, those out for bids, and those in the programming stages at this time with the existing Power Plant being used finally as a standby system."

"The existing buildings" being added to the above.

The Campus Planning Committee approved the above change in the Minutes.

3398. Approval of Minutes

The Minutes of Meetings Nos. 298, 299 (with above change), 300, and 301 were approved.

3399. President's Approval of Minutes

President Goodwin approved the Minutes of Meetings Nos. 298 on June 16, 1966; 299 on July 13, 1966; 300 on June 23, 1966; and 301 on July 13, 1966.

3400. Agricultural Facilities

Sewer Line Extension to the Poultry Facilities

Mr. Downing has been asked to investigate the extension with consideration being given to the expansion of Agricultural Facilities in the area and it is being studied.

3401. Athletic Facilities

Paving the North Parking Area at Jones Stadium  
(Total bid based upon unit prices - \$11,437.88)

Bids were opened on July 1, 1966, and Bob Hunter Construction Co., Lubbock, was the successful bidder. (Attachment No. 655, page 2027)

The Board authorized the Building Committee to act, and the award of the contract was approved by Mr. C. A. Cash on July 7, 1966, by Mr. Herbert Allen on July 8, 1966, and by Mr. Harold Hinn on July 13, 1966.

Work is scheduled to begin no earlier than July 25 and no later than July 29, 1966, with a completion date of September 1, 1966.

3402. Biology Building (CPC No. 99-65) (Pierce & Pierce)

The architects have been notified that they are to present the preliminary plans to the Board of Directors on July 25, 1966, in Austin.

3402. Biology Building (CPC No. 99-65) (Pierce & Pierce) (continued)

Dr. Lyle Kuhnley of the Biology Faculty Committee will be in Austin and plans to attend the meeting.

The Campus Planning Committee reviewed the preliminary plans covering work accomplished through July 11, 1966. The committee recommended that the preliminary plans be accepted with the following exceptions:

The architects will be requested to:

1. Give further study to the design of the screening treatment at the greenhouse level.
2. Give particular attention to the redevelopment of the first floor level, including the auditorium.

The recommendation for the approval of the exterior design of the building is subject to further study when a rendering of the building in color is available.

The question of a lack of undergraduate space in the new facility was again raised.

The feasibility of locating two 500 capacity auditoria within the Science Building area was also questioned.

A letter from the Graduate Facilities Branch of the Bureau of Higher Education stating the status of the Title II Application as of June 8, 1966, is attached to and made a part of the Minutes. (Attachment No. 656, page 2028)

3403. Business Administration Building (CPC No. 98-65)  
(Page, Southerland, Page)

The architects propose to use fixed glass windows at the first and second floor levels in the classroom and office units. The top of the glass at the second floor will be some 25 feet above the platform.

The fixed glass is proposed in order to eliminate dust, wind and water leakage.

It was recommended that the fixed glass be used as proposed.

3404. Central Heating and Cooling Plant (CPC No. 105-66)  
(Zumwalt & Vinther, Engineers)  
(Pitts, Mebane, Phelps & White, Architects)

Boilers and Refrigeration Unit

The Construction Phase of the Engineering Survey Contract will be considered sometime prior to the installation of the equipment.

Site

The Campus Planning Committee recommended that the site be established soon in order for the engineers to begin the Design Phase for the tunnel and utilities extension to the Wiggins Complex.

3405. Classrooms and Offices(Temporary) (CPC No. 102-66)

Mr. Downing reported on July 5, 1966, that the Law Offices Building is complete.

Eleven buildings have been located on the campus and two more are expected during the week of July 18, 1966.

3406. Constitutional Building Amendment

The Board of Directors, on recommendation of the Finance Committee, approved the issuance of \$1,500,000 in Constitutional Building Amendment bonds on July 26, 1966, in Austin.

There will be a second sale on October 18, 1966, and a third on January 24, 1967.

3407. Chemistry Building Addition (CPC No. 87-64)  
(Pitts, Mebane, Phelps & White)

The Title II Application was filed under the Higher Education Facilities Act, Graduate Academic Facilities Program, on June 30, 1966, and has been assigned Project No. 2-2202.

Title I Application will be filed under the State Plan for Texas by September 6, 1966.

The feasibility of locating two 500 capacity auditoria within the Science Building area was questioned again based upon the review of the Biology preliminary plans. It was recommended that consideration be given to eliminating one of the auditoria in this area for possible incorporation elsewhere so that the large classrooms will not be concentrated within a limited area of the campus.

3408. Consulting ArchitectProgress Report - Buildings Being Programmed

(Attachment No. 657, page 2029)

Mr. Howard Schmidt will present the Entry Station proposed plans to the Board of Directors in Austin on July 25, 1966.

If there should be no August 20, 1966, meeting of the Board, when will schematic plans be presented for the Title I applications due September 6, 1966? (Law School, Title II, October 1, 1966)

Mr. Schmidt reported that he will be prepared to present schematic plans on Architecture and Home Economics to the Campus Planning Committee around mid-August, 1966.

3409. Foreign Languages-Mathematics Building (CPC No. 87-64)  
(Pitts, Mebane, Phelps & White)Construction of Tunnels and Utilities Extension  
(Zumwalt & Vinther, Engineers)

Final plans and specifications were reviewed by Mr. Ray Downing and Mr. Bill Felty in the interest of the Campus Planning Committee.

The Department of Urban and Housing Development approved the plans and specifications on July 6, 1966. Bid opening date of July 20, 1966, at 3 p.m. in Room 120, Administration Building has been approved.

Mr. Jack Roberts was given permission to issue an addendum changing the completion date from September 1, 1966, to the following:

1. Completion date involving work on steam lines changed to September 8, 1966.
2. Completion date involving work on chilled water lines changed to September 15, 1966.

The Campus Planning Committee recommended that Zumwalt & Vinther be given a contract for the Construction Phase of the tunnel & utilities extension work. The Construction Phase entails the supervision of the work and coordination between contractor and owner, etc.

3410. Institute of Human Resources and Adjustment (CPC No. 104-66)

Dr. Beatrix Cobb met with Dr. Murray July 14, 1966, for a review of progress to date.

On July 19, 1966, Dr. Cobb will meet with Miss Kirkwood so that the Campus Planning Committee will be brought up-to-date.

Dr. Cobb will be present at the meeting of the Board of Directors on July 25, 1966, in Austin to present the proposed project.

3411. Library (South Basement and Third Floor) (CPC No. 101-65)Progress

The project is 90 percent complete.

3412. Museum (CPC No. 65-61) (Associated Architects and Engineers of Lubbock, Stiles, Roberts and Messersmith and McMurtry & Craig)

In a meeting in Mr. Pennington's office on July 7, 1966, Mr. Harold Hinn recommended that work by the architects be stopped immediately and that they do no additional work on the project until further study of the scope and purpose has been made.

McMurtry and Craig were notified the same day and advised to prepare status drawings, specifications, etc., for record purposes. These drawings and specifications were delivered to the Campus Planning Committee Coordinator's office on July 8, 1966.

Letters from Mr. Hoyse McMurtry concerning the suspension of the work are attached to and made a part of the minutes. (Attachment No. 658, page 2030)

3413. Museum (Existing)

The Board of Directors accepted and approved the Use Feasibility Study of the Existing Museum dated May 25, 1966, as prepared by Howard Schmidt and Associates.

The study recommended that the Museum be rehabilitated to include ten classrooms for a total capacity of 1,678 students and 21 offices for faculty use.

If the remodeling is determined to be extensive, consideration should be given to retaining an architect's services.

3414. New ProjectsAgricultural Facilities

Attached to and made a part of the Minutes is a request from Dr. Gerald Thomas outlining the needs for the replacement of the Sheep and Goat Facilities. The existing facilities will need to be moved on or about March 1, 1967, due to the expansion of the Wiggins Complex into the area. (Attachment No. 659, page 2031)

Psychology - Counseling Center

A request for additional space has been presented by Dr. James E. Kuntz, Director.

The letter is attached to and made a part of the Minutes, and the sketches are available in the Campus Planning Committee Coordinator's office. (Attachment No. 660, page 2032)



3414. New Projects (continued)Speech

Dr. Larson has presented a request for additional space to the Campus Planning Committee.

The request including outlined needs is available for review in the Office of the Campus Planning Committee Coordinator.

3415. Priority List1. Business Administration Building

The architects are proceeding with the final working drawings.

2. Biology Building

The preliminary plans are ready for presentation to the Board of Directors. Exceptions to the plans taken by the Campus Planning Committee are covered under Item 3402.

3. Chemistry Building Addition

Title II application was filed June 30, 1966, and Title I will be filed on or before September 6, 1966.

4. Home Economics Building

Title I application will be filed September 6, 1966.

5. Architecture and Allied Arts

Title I application will be filed September 6, 1966.

The Law School Building is being programmed for filing under Title II on October 1, 1966, and does not appear in priority order as the building is considered a necessity in keeping with the establishment of the school.

The Central Heating and Cooling Plant does not appear in priority order as it is an absolute necessity as created by overall campus expansion.

3416. Sidewalks (Asphalt and Concrete)

Plans and specifications have been prepared by the Department of Grounds Maintenance, preliminary layouts are available for review and estimated costs are as follows:

Asphalt Walks:

<u>Location</u>	<u>Area</u>	<u>Unit Price</u>	<u>Cost</u>
Law School	17,400 sq. ft.	\$ .40/sq. ft.	\$ 6,960.00
Plant Science(east)	12,850 sq. ft.	.40/sq. ft.	5,140.00
Plant Science(west)	<u>10,500 sq. ft.</u>	.40/sq. ft.	<u>4,200.00</u>
<u>Totals:</u>	40,750 sq. ft.		\$16,300.00
Bookstore	<u>13,400 sq. ft.</u>	.40/sq. ft.	<u>5,360.00</u>
<u>Grand Total:</u>	<u>54,150 sq. ft.</u>		<u>\$21,660.00</u>

3416. Sidewalks (Asphalt and Concrete) (continued)Concrete Walks:

College	18,200 sq. ft.	\$ .35/sq. ft.	\$ 6,370.00
Boston	12,200 sq. ft.	.35/sq. ft.	4,270.00
Men's Gym	1,350 sq. ft.	.35/sq. ft.	472.50
Plant Science Bldg.	<u>1,152 sq. ft.</u>	.35/sq. ft.	<u>403.20</u>
<u>Grand Total:</u>	<u>32,902 sq. ft.</u>		<u>\$11,515.70</u>
Existing Concrete Removal	2,700 sq. ft.	.20/sq. ft.	\$540.00

3417. Southwestern Public Service Company

The agreement covering the proposed installation of power cables routed down Indiana has been prepared by the Southwestern Public Service Company for approval of the College.

Copies have been given to Mr. Downing and Mr. Urbanovsky for their review.

The preliminary proposal appears to be in order; however, the Campus Planning Committee prefers to delay a recommendation until further study by the College has been made.

3418. T.V. Station Addition - KTXF-TVProgress

Ready for roof pour and interior finishes. Transmitter will be shipped July 15, 1966.

3419. Wiggins Complex (CPC No. 97-65)Kitchen Equipment Installation Supervision

The architects have been asked to furnish the Campus Planning Committee with information concerning the fee.

Resident Construction Coordinator

Mr. Justin Elliott has been retained and began work on July 7, 1966, in keeping with past approval of the Board of Directors.

Concrete Testing

Dyess Testing Laboratory, Inc., submitted a proposal to do the work as outlined in the specifications on June 27, 1966, and it has been accepted.

Interior Designer

Mr. Jack Evans has been contacted, but no proposal has been received as yet. Several proposals have been received from others.

Tunnel and Utilities Extension

It is recommended that Zumwalt & Vinther be authorized to proceed with the Design Phase of the work in order that the site of the Central Plant and this work may be coordinated.

The Bid Tabulations and the Deductive Alternates which were accepted by the Board of Directors are attached to and made a part of the Minutes. (Attachment No. 661, page 2033)

Jerry Kirkwood  
Coordinator

The meeting adjourned at 3:35 p.m.

Campus Planning Committee  
 July 14, 1966  
 Attachment No. 655  
 Item No. 3401

## BID TABULATION

## PARKING LOT NORTH JONES STADIUM

July 1, 1966

Five Interested Persons Present

CONTRACTOR	ACK. ADD.	BID BOND	ITEM #1	ITEM #2	ITEM #3	ITEM #4	ITEM #5	ITEM #6	ITEM #7	ITEM #8	ITEM #9	TOTAL BID
Joel Austin, Dirt and Paving Contractor, Inc.		NO	BID									
Bill Hood, Dirt and Paving Contractor	X	X	1.10 6,600.00	1.96 1,568.00	.72 396.00	.72 504.00	2.50 165.00	1.98 1,009.80	3.98 119.40	1.50 1,500.00	1.00 150.00	12,012.20
Walter Jarnagin, Dirt and Paving Contractor		NO	BID									
Kerr Construction Company	X	X	1.25 7,500.00	1.75 1,400.00	.85 467.50	.85 595.00	3.50 231.00	1.65 841.50	5.12 153.60	1.50 1,500.00	1.00 150.00	12,838.60
Pioneer Pavers, Inc.	X	X	1.25 7,500.00	1.75 1,400.00	.70 385.00	.60 420.00	3.00 198.00	3.20 1,632.00	5.50 165.00	1.50 1,500.00	1.00 150.00	13,350.00
C. W. Zahn and Son Contracting Co.		NO	BID									
Red Roberson Dirt and Paving Contractor		NO	BID									
Bob Hunter Construction Company	X	X	1.06 6,384.00 *6,360.00	2.18 1,751.00 *1,744.00	.56 310.00 *308.00	.56 395.00 *392.00	3.38 223.00 *223.08	1.43 717.50 *729.30	3.40 102.00	1.41 1,412.00 *1,410.00	1.13 169.00 *169.50	11,463.00 *11,437.88

\*Corrected totals obtained by multiplying unit price times unit.

Campus Planning Committee  
July 14, 1966  
Attachment No. 656  
Item No. 3402

DEPARTMENT OF HEALTH, EDUCATION, AND WELFARE  
Office of Education  
Washington, D. C. 20202

Bureau of Higher Education

June 8, 1966

In reply refer to:  
Application No. 2-1684

Mr. M. L. Pennington  
Vice President for Business  
Texas Technological College  
P. O. Box 4610, Tech Station  
Lubbock, Texas 79409

Dear Mr. Pennington:

This is in reference to your project No. 2-1684 under Title II of the Higher Education Facilities Act of 1963 for a facility to be used for Biology.

At the June 2-3, 1966, meeting of the Advisory Committee on Graduate Education, a maximum grant in the amount of \$551,014 was recommended for consideration for a grant from fiscal year 1967 funds subject to the availability of funds in that fiscal year.

This is not a legal commitment that a grant will be awarded, and this letter only informs you of the current status of your application.

A contract for construction should not be let before a grant is awarded. If you have any questions, please contact this office.

Sincerely yours,

/s/ Olof E. Stamberg

Olof E. Stamberg, Chief  
Graduate Facilities Branch

cc: John G. Taylor

Campus Planning Committee  
July 14, 1966  
Attachment No. 657  
Item No. 3408

July 20, 1966

TO: M. L. Pennington, Chairman  
Campus Planning Committee

FROM: Howard Schmidt  
Consulting Architect

SUBJECT: Progress Report on the Programming of New Academic Facilities and  
Other Current Building Projects

HCME ECONOMICS PROGRAMMING:

Numerous meetings have been held with the Home Economics Faculty Building Committee since our last progress report, and Dean Tinsley has supplemented the Committee with other persons when she felt it desirable. We have together viewed the photographic slides made by the Consulting Architect of the Home Economics facilities at the University of New Mexico at Albuquerque and at Brigham Young University in Provo, Utah. Richard Click and Dale Schenck in the Consulting Architect's office have been developing schematic plans on the addition to Home Economics, and the first schematics have been reviewed by Dean Tinsley's building committee. Further refinements of the schematics will be available for another review by the Faculty Building Committee early next week, and then available for a review by the Campus Planning Committee. No other research inspection trips are planned by any of the parties involved prior to the submittal for matching funds September 1. There will no doubt be a desire on the part of the Faculty Building Committee to visit other installations when the details of cabinetwork, laboratory equipment, etc. are being refined.

LAW SCHOOL PROGRAMMING:

The Consulting Architect's studies of the new Law School Facilities have been proceeding, but since it has been difficult to program with Dean Richard Amandes in San Francisco, and Mr. U. V. Jones, the Law Librarian, in Atlanta, Georgia, we have waited for their arrival on campus to do a real concentrated study of their facility. In addition, we also have extra time for submitting this application for matching funds, since it falls under Title II. We did take advantage of Dean Amandes' visit the weekend of June 24, and with Dr. Murray and Dr. Pearce also in attendance, we reviewed the photographic slides prepared by the Association of Law Schools, and have made note of the comments made while viewing the slides. We reviewed some very brief schematics with Dean Amandes and recorded the comments. The same schematics have been sent to Mr. U. V. Jones for his pursual and we will receive the benefit of his comments when he arrives on or about the first of August.

The information and pictures taken by the Consulting Architect at Salt Lake City at the University of Utah School of Law (visited earlier with Dean Amandes) have been most helpful since this apparently is one of the newer and more significant law schools in America. We also have at our fingertips the schematic floor plans for almost every law school in the United States which also was assimilated by the Association of Law Schools.

On June 29, the Consulting Architect toured the Law School at the University of Denver and was given much information about their relatively new facility designed by Perkins and Will of Chicago. Dean Amandes had made arrangements for a conducted tour by the staff members at that school, and we feel this will contribute much to our planning.

-2-

ARCHITECTURE PROGRAMMING:

Mr. Gordon McCutchan, a member of the faculty in the Department of Architecture at Texas Tech, has been working full-time on this program in the Consulting Architect's office along with other members of the Consulting Architect's staff since early June. Numerous meetings have been held with Mr. Nolan Barrick and his Faculty Building Committee, and one additional meeting with the Faculty Building Committee is necessary early next week prior to a review of the plans by the Campus Planning Committee. Mr. McCutchan's participation we feel has made a real contribution since he is a member of the faculty.

AGRICULTURAL PLANT SCIENCES PROGRAMMING:

As the feelings seem to exist with Miss Clewell's report on the feasibility of this project, we have done nothing further on the programming of this facility than our initial contacts with the Faculty Building Committee. We are waiting word and direction from the Campus Planning Committee before proceeding.

Campus Planning Committee  
July 14, 1966  
Attachment No. 658  
Item No. 3412

ASSOCIATED ARCHITECTS & ENGINEERS OF LUBBOCK  
3134 Thirty-Fourth Lubbock, Texas

July 8, 1966

Marshall L. Pennington  
Vice President for Business Affairs  
Texas Technological College  
Lubbock, Texas

Re: Texas Technological College Museum

Dear Mr. Pennington:

We have stopped production of the plans and specifications on the central unit of the museum, as well as on the industrial gallery and the planetarium.

This follows instructions from you late yesterday thru Miss Jerry Kirkwood, Coordinator, Campus Planning Committee.

We are ready and willing to cooperate in any manner to secure better and more progressive instructional areas for Texas Technological College, and while a sudden stop is momentarily disconcerting, the anticipated benefit to the owner remains our primary concern.

We are handing Miss Kirkwood all sheets, both working drawings and pertinent sketches, of the work up to 4:30 p.m. yesterday, on all three units, and we instructed our mechanical engineer yesterday afternoon to halt his work and mail prints of his work to date to us. We will deliver his prints to Miss Kirkwood. We also enclose copies of the start of specifications.

Each of the two offices involved have retained our check prints of sheets with revisions or corrections to be made, which do not yet appear on the final sheet. Some notes are shown on the set delivered to Miss Kirkwood, particularly those reviewed with Dr. Green, Mr. Witteborg, and the building committee of the West Texas Museum Association.

We will make ourselves available when the owners are ready to proceed in any direction. We particularly appreciate the cooperative spirit existing between Texas Technological College and the West Texas Museum Association.

Yours truly,

ASSOCIATED ARCHITECTS AND ENGINEERS OF LUBBOCK

/s/ E. Hoyse McMurtry

E. Hoyse McMurtry

cc: Miss Jerry Kirkwood  
Dr. Earl Green  
Stiles, Roberts & Messersmith



Campus Planning Committee  
July 14, 1966  
Attachment No. 659  
Item No. 3414

TEXAS TECHNOLOGICAL COLLEGE  
School of Agriculture  
Lubbock, Texas

Office of the Dean

July 6, 1966

Mr. M. L. Pennington, Chairman  
Campus Planning Committee  
Campus

Re: Sheep and Goat Facilities

Dear Mr. Pennington:

Expansion of the new dormitories onto the farm and livestock area makes it necessary to relocate our Sheep and Goat facilities. If the time schedule is followed as outlined by the Campus Planning Committee, this move will take place on or about March 1, 1967. Thus, it is imperative that we start our relocation planning as soon as possible.

Adequate facilities are needed to properly service our teaching and research programs. Texas produced over 5 million sheep and 4.4 million goats in 1965--primarily in the Western part of the State. This represents 97% of the mohair production in the United States, 20% of the U.S. wool production, and a large share of the total lamb and mutton. The value of these products is in excess of \$130 million annually.

The attached outline of faculty needs will provide a minimum for replacement and will permit us to partially service the important Sheep and Goat industry.

Please let us know if you need additional information.

Sincerely yours,

/s/ Gerald W. Thomas

Gerald W. Thomas  
Dean of Agriculture

GWT:cc

cc: Dr. Grover Murray  
Dr. W. M. Pearce  
Mr. Dale Zinn  
Mr. E. J. Urbanovsky

## PROPOSED SHEEP BARN AND EQUIPMENT

1. Central working area, and office space.  
This main barn should accommodate the following:
  - A. Herdsman office. Approximately 10 by 14'.  
Storage closets or cabinets along one wall.  
Heating provided.  
Fluorescent lighting.  
Telephone extension with claxon horn.  
Desk and chair.  
1 filing cabinet.  
Electrical outlets.
  - B. Dormitory room. Approximately 20 x 14'.  
Heating provided.  
Fluorescent lighting.  
Two bunks, desk, two chairs.  
Lavatory, medicine cabinet.  
Electrical outlets.  
This room to be used mainly during lambing supervision by part-time student labor rather than full-time basis.
  - C. Restroom. Approximately 9 x 8' (Adjacent to dorm room.)  
Shower stall.  
Lavatory.  
Commode.  
6-8 individual lockers.  
Heating provided.
  - D. Wool storage area. Approximately 20 x 14'.  
Bins along one wall for odd-lot storage.  
Space for bagged wool.  
Dust and moisture proof.  
Designed for periodic fumigation.
  - E. Wool laboratory. Approximately 22 x 14'.  
Ample fluorescent lighting.  
Dust proof and designed for fumigation.  
Plumbed for hot and cold soft water.  
Ample 110 and some 220 outlets.  
Counters including alternating knee wells and drawers along one long wall.  
Small cubicle that can be darkened at one end of above counter for microfiber studies. (Present equipment in room 118 of Agriculture Building.)  
Existing wool scouring train along opposite wall.  
(This is stored in room 109 of Agriculture Building.) Plans are available in A. H. Office. This installation will require water softener and grease trap. Old equipment is still plumbed in 118 Agriculture Building.  
Gas lines and outlets along counter top.  
Room could be improved by design for future humidity control. (Exhaust fan may suffice.)
  - F. Feed storage room. Approximately 14 x 14'.  
Mainly for storage of special rations in bagged form.
  - G. Large work area at rear for shearing, setting up lambing pens, and weighing. Gas infra-red space heater. (Schwank Infra-Red Heaters, Hupp Infra-Red, 1135 Ivanhoe Road, Cleveland 10, Ohio.)  
Three VA-1A Sunbeam (Stewart-Warner) Heavy Duty Electric Shearing machines mounted on suspended overhead mounts, five feet apart, and three feet from wall.  
Dial scale (Toledo "2000 series" preferred) graduated in lbs. with 250-300 lb. dial capacity, and two beams with 300 lb. tare capacity. Sheep crate to be attached. Bench type dial scale (Toledo model 2181 preferred), with 50 lb. dial capacity, graduated in tenths, and two beams with 200 lb. tare capacity.
2. Four livestock shelters, two located on each side of main working area.
  - A. Each 180' in length, with 40' deep covered area, open to South and closed on North, and 32' open area for continuation of pens.
  - B. Designed for subdivision into 24' pens, and optional 12' pen width dimensions.
  - C. Circulating water system, with risers at center of 24' pen, which will allow subdivision into 12' pens.

- D. Parr portable panels (metal) with small wire mesh desired.
  - E. Ten foot alleyway along North wall of each wing, under roof, to accommodate access by pick-up truck, and feed carts and moving sheep.
  - F. Six foot alleyway adjacent to main barn in each wing for driving sheep to scales, shearing floor, or to other wings of barn.
  - G. Loading ramp built in wall of front wing to East of main barn, directly North of 6' alleyway in this wing. Collapsible loading ramp that will fold against inner wall.
  - H. Overhead doors to allow access in front alleyway and rear of each wing, loading into main barn area.
  - I. Adequate lighting and electrical outlets in each wing.
  - J. Electric fly traps in each wing if possible.
3. Planned use of each wing:
- 1. College purebred flocks
  - 2. Lamb feeding trials
  - 3. Dry-lot studies
  - 4. Other research projects.
4. At least  $\frac{1}{2}$  of each wing to have concrete floor along full length.

Campus Planning Committee  
July 14, 1966  
Attachment No. 660  
Item No. 3414

TEXAS TECHNOLOGICAL COLLEGE  
P. O. Box 4610  
Lubbock, Texas

Counseling Center

June 29, 1966

Mr. Marshall L. Pennington  
Office of the Vice President for  
Business Affairs  
Campus

Dear Mr. Pennington:

This is the inevitable request for additional space for the Counseling Center operation. All of us were aware four years ago when we were planning our new building that we would be ready for more facilities by the time we were well settled.

This summer we are having to revise our layout so we can get along next year. When we add another staff member in the fall of 1967, we are going to be out of office space. In order to meet the needs of the increasing student population in a half-way acceptable way, we are going to have to add one staff member per year until the student enrollment stabilizes. This means that we will need fifteen or sixteen counselors at least, by 1975. Our present planning is in terms of the enrollment figure ten years hence. Our counseling load increased between 250-275% in 1965-1966, and we expect a greater proportion of our students to need our services as the college becomes larger. This is inevitable in view of the student-teacher ratios that will prevail. The larger the student-teacher ratios, the less attention the classroom instructors and departmental administrative staff can give to individual or personal needs of the students.

In general, this request is for the extension of the present building to the speech therapy building (University Theater). These were, as I recall, your plans for providing more space at the time the present building was designed. Dr. Andreychuk will be submitting a request soon. In thinking about our needs, Dr. Andreychuk and I came to these decisions: (1) The Counseling Center would release its present space to the Psychology Department; (2) All five floors would need to be extended to the Theater; (3) The Counseling Center would occupy the first and second floors and the Psychology Department, the third and fourth floors, and the basement would be finished out for classroom and group testing. It could be modified for special functions when needed.

Please consider this my formal request for counseling facilities which will be urgently needed by the fall of 1968. Enclosed are "blueprints" which indicate our needs and can be used as a point of departure in getting under way.

Sincerely,

/s/ James E. Kuntz

James E. Kuntz, Director

JEK:jt  
cc: Miss Jerry Kirkwood

Campus Planning Committee  
 July 14, 1966  
 Attachment No. 661  
 Item No. 3419

## COEDUCATIONAL DORMITORY AND DINING COMPLEX - PHASE I

SCHMIDT AND STILES, ROBERTS & MESSERSMITH  
 JUNE 16, 1966 10:00 AM

## BID TABULATION FOR MECHANICAL CONSTRUCTION

BIDDERS	ACK. ADDENDUM	BASE BID "A"	BASE BID "B"
BARBER, INC.	X	No Bid	
BURDEN BROTHERS	X	2,458,000.00	2,458,000.00
KASCH BROTHERS, INC.	X	2,068,000.00	1,968,000.00
MEYER, L. E. COMPANY	X	2,514,900.00	2,402,174.00
ROUNTREE COMPANY	X	No Bid	
WALLACE, C. PLUMBING CO.	X	2,350,000.00	2,370,000.00
WALLACE, SAM P. COMPANY	X	No Bid	
WATTIE WOLFE COMPANY	X	2,242,582.00	2,167,282.00
WOODS, DREW	X	1,920,000.00	1,908,000.00

ALTERNATES

ALTERNATE M-1 CHANGE PRESSURE PUMP SYSTEM  
 ALTERNATE M-2 CHANGE COPPER PIPING TO GALVANIZED STEEL PIPE  
 ALTERNATE M-3 CHANGE AUTOMATIC LAWN SPRINKLER TO MANUAL  
 ALTERNATE M-4 CHANGE AUTOMATIC LAWN SPRINKLER PIPING FROM GALVANIZED STEEL TO PVC IRRIGATION PIPE  
 ALTERNATE M-5 OMIT EMERGENCY GENERATORS

BIDDERS	M-1		M-2		M-3		M-4 AUTOMATIC		M-4 MANUAL		M-5		BID SEC.
	BASE BID A	BASE BID B	BASE BID A	BASE BID B	BASE BID A	BASE BID B	BASE BID A	BASE BID B	BASE BID A	BASE BID B	BASE BID A	BASE BID B	
BARBER, INC.													
BURDEN BROTHERS	-6,000	-6,000	-26,000	-26,000	-20,000	-20,000	-12,000	-12,000	-30,000	-30,000	-100	-100	X
KASCH BROTHERS, INC.	No Bid	No Bid	-18,000	-18,000	-20,000	-20,000	-12,000	-12,000	-18,800	-18,800	-200	-200	X
MEYER, L. E. COMPANY	-7,684	-7,684	-41,145	-41,145	-20,799	-20,799	-12,326	-12,326	-31,893	-31,893	-632	-632	X
ROUNTREE COMPANY													
WALLACE, C. PLUMBING CO.	-7,500	-7,500	-34,000	-34,000	-19,000	-19,000	-11,000	-11,000	-30,000	-30,000	-400	-400	X
WALLACE, SAM P. COMPANY													
WATTIE WOLFE COMPANY	-7,945	-7,945	-44,475	-45,475	-9,475	-9,475	-3,000	-3,110	-2,700	-2,861	-350	-350	X
WOODS, DREW	-6,684	-6,684	-25,000	-25,000	-19,000	-19,000	-11,800	-11,800	-10,600	-10,600	-200	-200	X

COEDUCATIONAL DORMITORY AND DINING COMPLEX - PHASE I  
TEXAS TECHNOLOGICAL COLLEGE

SCHMIDT AND STILES, ROBERTS & MESSERSMITH  
JUNE 16, 1966 10:00 AM

BID TABULATION FOR ELECTRICAL CONSTRUCTION

BIDDERS	ACK. ADDENDA	BASE BID A	BASE BID B	ALTERNATES					
				E-1		E-2		E-3	
				BASE BID A	BASE BID B	BASE BID A	BASE BID B	BASE BID A	BASE BID B
AMCO ELECTRIC									
FISCHBACH AND MOORE	X	894,000.00	895,400.00	-10,000	-10,000	-14,600	-14,600	-18,000	-18,000
NELSON, JACK ELECTRIC	X	950,000.00	798,000.00	-11,000	-11,000	-19,000	-19,000	-15,000	-15,000
PICKETT, JOHN ELECTRIC	X	No Bid	818,978.00	No Bid	-9,000	No Bid	-16,000	No Bid	-12,000
REYNOLDS ELECTRIC	X	944,243.00	894,476.00	-2,270	-2,270	-24,181	-23,659	-19,206	-18,735
TARVER ELECTRIC	X	708,850.00	688,850.00	-6,000	-6,000	-14,900	-14,900	-15,000	-15,000



2033C

ALTERNATES (CONTINUED)

ALTERNATE E-1 CHANGE COMBUSTION DETECTORS  
 ALTERNATE E-2 OMIT EMERGENCY GENERATOR  
 ALTERNATE E-3 OMIT PARAPET AND PENTHOUSE LIGHTING  
 ALTERNATE E-4 OMIT PUBLIC ADDRESS SYSTEM  
 ALTERNATE E-5 CHANGE LIGHT FIXTURES TYPE "D"  
 ALTERNATE E-6 CHANGE LIGHT FIXTURES TYPE "A" AND TYPE "B"  
 ALTERNATE E-7 OMIT DIMMERS  
 ALTERNATE E-8 OMIT ELECTRICAL WIRING OF AUTOMATIC LAWN SPRINKLER  
 ALTERNATE E-9 CHANGE ELECTRICAL WIRING OF THE PRESSURE PUMP SYSTEM

BIDDERS	E-4		E-5		E-6		E-7		E-8		E-9		BID SEC.
	BASE BID A	BASE BID B	BASE BID A	BASE BID B	BASE BID A	BASE BID B	BASE BID A	BASE BID B	BASE BID A	BASE BID B	BASE BID A	BASE BID B	
AMCO ELECTRIC													
FISCHBACH AND MOORE	-9,400	-9,400	-16,500	-16,500	-8,100	-8,100	-6,800	-6,800	-6,000	-6,000	No Bid	No Bid	X
NELSON, JACK ELECTRIC	-10,000	-10,000	-17,000	-17,000	-8,900	-8,900	-13,000	-13,000	-1,980	-1,980	+1,000	+1,000	X
PICKETT, JOHN ELECTRIC	No Bid	-9,600	No Bid	-16,000	No Bid	-8,000	No Bid	-14,000	No Bid	-1,500	No Bid	+900	X
REYNOLDS ELECTRIC	-5,257	-4,302	-16,535	-16,535	-7,960	-7,960	-16,476	-16,311	-3,078	-2,910	+307	+255	X
TARVER ELECTRIC	-9,500	-9,500	-16,650	-16,650	-8,700	-8,700	-19,000	-19,000	-2,000	-2,000	+300	+300	X

2033D

COEDUCATIONAL DORMITORY AND DINING COMPLEX  
 PHASE - 1  
 TEXAS TECHNOLOGICAL COLLEGE

SCHMIDT AND STILES, ROBERTS & MESSERSMITH  
 JUNE 16, 1966 10 A.M.

BID TABULATION FOR BUILT-IN FURNITURE

BIDDERS	ACK. ADDENDA	BASE BID A	BASE BID B	ALTERNATE F-1		BID SEC.
				BASE BID A	BASE BID B	
ALFRED BLOOM COMPANY	X	No Bid	1,200,000	No Bid	No Bid	X
BORO SOUTHWEST CORPORATION	X	849,898	849,898	-1,200	-1,200	X
ELLIS MANUFACTURING	X	778,976	778,976	-61,359	-61,359	X
L & A MILL & SUPPLY	X	1,084,000	993,000	No Bid	No Bid	X
NATIONAL FURNITURE CONTRACTORS, INC.	X	993,700	993,700	No Bid	No Bid	X
TERRILL MANUFACTURING	X	1,072,791	972,791	No Bid	No Bid	X
THOREN'S SHOWCASE & FIXTURE CO., INC.	X	1,355,934	1,305,934	-4,200	-4,200	X

ALTERNATE F-1 CHANGE EXPOSED FACES TO LAMINATED PLASTIC

2033E

COEDUCATIONAL DORMITORY AND DINING COMPLEX  
 PHASE 1  
 TEXAS TECHNOLOGICAL COLLEGE

SCHMIDT AND STILES, ROBERTS & MESSERSMITH  
 JUNE 16, 1966 10 A.M.

BID TABULATION FOR FOOD SERVICE EQUIPMENT

BIDDERS	ACK. ADDENDA	BASE BID A	BASE BID B	BID SEC.
S. BLICKMAN, INC.	X	404,888	404,888	X
COMMERCIAL KITCHENS, INC.	X	373,727	373,727	X
DALLAS FOUNTAIN & FIXTURE		No Bid		
SOUTHERN EQUIPMENT CO.		No Bid		
UNIVERSAL PRODUCTS CO.	X	410,000	No Bid	X

BID TABULATION FOR ELEVATORS

BIDDERS	ACK. ADDENDA	BASE BID A	BASE BID B	BID SEC.
ESCO ELEVATORS	X	335,133	335,133	X
HUNTER-HAYES ELEVATOR CO.	X	333,000	333,000	X
OTIS ELEVATORS	X	341,340	341,340	X
WESTINGHOUSE ELEVATORS	X	345,180	346,067	X

COEDUCATIONAL DORMITORY AND DINING COMPLEX - PHASE 1  
TEXAS TECHNOLOGICAL COLLEGE

SCHMIDT AND STILES, ROBERTS & MESSERSMITH  
JUNE 17, 1966 2 P.M.

BID TABULATION FOR GENERAL CONSTRUCTION

BIDDERS	ACK. ADDENDA	BID	BASE BID	ALTERNATES				
				GC-1	GC-2	GC-3	GC-4	GC-5
BATESON, T.C., CONSTRUCTION CO.	X	A	6,462,400	-1,500	-2,700	-600	-12,000	-4,500
		B	5,962,400	-1,500	-2,700	-600	-12,000	-4,500
CAIN & CAIN, INC.	X	A	7,805,000	-1,900	No Bid	-1,000	-12,500	No Change
		B	6,725,000	-1,900	No Bid	-1,000	-12,500	No Change
LOTT, H. A., INC.	X	A	5,300,000	-1,600	No Change	+1,700	-12,500	No Change
		B	5,020,000	-1,600	No Change	+1,700	-12,500	No Change
MCKEE, ROBERT E.	X	A	5,930,000	-1,796	No Change	-307	-12,600	-12,350
		B	5,744,000	-1,796	No Change	-307	-12,600	-12,350
O'MEARA-CHANDLER CORP.								

(See Next Page for Alternates continued)

ALTERNATES (CONTINUED)

BIDDERS	BID	GC-6	GC-7	GC-8	GC-9	GC-10	GC-11	FEE %	BID SEC.
BATESON, T.C., CONSTRUCTION CO.	A	-29,000	-47,500	-6,500	-14,000	-19,000	-15,000	Not Listed	X
	B	-29,000	-47,500	-6,500	-14,000	-19,000	-15,000		
CAIN & CAIN, INC.	A	-20,000	-40,000	-7,000	-54,000	No Bid	-13,000	2½	X
	B	-20,000	No Bid	-7,000	No Bid	No Bid	-13,000		
LOTT, H. A., INC.	A	-37,000	-32,000	-7,500	-18,000	-22,000	-16,000	3	X
	B	-37,000	-32,000	-7,500	-18,000	-22,000	-16,000		
MCKEE, ROBERT E.	A	-31,970	-34,580	-7,140	-16,023	-19,700	-16,220	2	X
	B	-31,970	-34,580	-7,140	-16,023	-19,700	-16,220		
O'MEARA-CHANDLER CORP.	A								
	B								

Alternate GC-1 Omit Reinforcement in Curbs  
 Alternate GC-2 Change Paving Construction  
 Alternate GC-3 Change Copper Roofing to Clay Tile  
 Alternate GC-4 Change Cushioned Vinyl Flooring to Vinyl Asbestos Tile  
 Alternate GC-5 Change Asphalt Walks to Concrete  
 Alternate GC-6 Change Brick Walks to Concrete

Alternate GC-7 Change Finish of Windows and Change Certain Windows & Doors to Hollow Metal  
 Alternate GC-8 Change Copper Flashing to Stainless Steel or Monel Alloy  
 Alternate GC-9 Omit Wood and Vinyl Sun Decks  
 Alternate GC-10 Omit Wood Folding Partitions  
 Alternate GC-11 Change Carpet Type "B" to Vinyl Asbestos Tile

## WIGGINS COMPLEX -- DEDUCTIVE ALTERNATES

As recommended by the Campus Planning Committee and approved by the Board of Directors on June 22, 1966:

Alt. M-4 ----- (11,800 + 3%) ----- \$12,154

Changes automatic lawn sprinkling system piping from galvanized steel pipe to 125 psi PVC.

Alt. E-3 ----- (15,000 + 3%) ----- 15,450

Omits conduit and fixtures for the exterior floodlighting of the 12 story parapet and the floodlighting of the mechanical penthouses.

Alt. GC-4 ----- 12,500

Replaces cushioned vinyl floor (with 1/8" sponge rubber cushion) in typical floor lounges with 1/8" thick vinyl-asbestos tile.

Alt. GC-6 ----- 37,000

Changes all brick paver walks to concrete.

Alt. GC-9 ----- 18,000

Omits wood and vinyl sun decks on roofs of the three towers.

Total Deductible Amount Recommended

\$95,104

TEXAS TECHNOLOGICAL COLLEGE  
Lubbock, Texas

MINUTES OF THE CAMPUS PLANNING COMMITTEE

Meeting No. 303

July 21, 1966

A meeting of the Campus Planning Committee was held at 3:30 p.m. on July 21, 1966, in Room 120 of the Administration Building. Members present were Chairman M. L. Pennington and Mr. Nolan E. Barrick. Mr. E. J. Urbanovsky is still in the hospital. Other members of the College staff present were Mr. John G. Taylor, Mr. O. R. Downing, Dr. Bill Kitchen, Miss Evelyn Clewell and Miss Jerry Kirkwood.

Mr. Howard Schmidt, Consulting Architect, was unable to attend.

3420. Business Administration Building (CPC No. 98-65)  
(Page, Southerland, Page)

Interior Designer

The architects have the service provided by someone within their organization. Since the architects' and interior designers' services are separate professions, the fees are separate.

The sealed proposal was opened and read aloud.

After the discussion of the need for the services, it was recommended that the Faculty Building Committee be consulted regarding the use of such services for the areas housing the Dean's Complex and the Department Head Complex.

3421. Central Heating and Cooling Plant (CPC No. 105-66)  
(Zumwalt & Vinther, Inc., Engineers)  
(Pitts, Mebane, Phelps and White, Architects)

The Campus Planning Committee recommended, dependent upon the concurrence of the architects and engineers, that the proposed site be moved to the west in order to leave one or two building sites on Flint.

It was further recommended that the architects and engineers study every possibility for decreasing the amount of land required without detriment to the operation.

3422. Consulting Architect

Entry Stations

The report from the Traffic and Security Committee and Mr. Howard Schmidt was reviewed.

It is recommended that the stations not be considered as permanently located next fall.

It has become apparent, after extensive study of the traffic patterns involved with the stations, that for the traffic to move smoothly through and around the entries some changes in the existing streets will be necessary. Mr. Howard Schmidt will present the proposed temporary stations and locations report to the Board of Directors on July 25, 1966.  
(Attachment No. 662, page 2036)



3423. Foreign Languages-Mathematics Building (CPC No. 87-64)  
(Pitts, Mebane, Phelps & White)

Construction of Tunnels and Utilities Extension  
(Zumwalt & Vinther, Engineers)

Bids were received at 3 p.m., July 20, 1966, opened and publicly read aloud. Fourteen interested persons attended. The Anthony Company, Lubbock, was the low bidder with a base bid of \$98,000.

The Campus Planning Committee recommended that the base bid of \$98,000 from the Anthony Company, the low bidder, be accepted, and the Chairman authorized to sign the necessary documents.

The bid tabulation and the breakdown showing the determined federal participation is attached to and made a part of the Minutes. (Attachment No. 663, page 2037)

Interior Designer

It was agreed not to recommend these services due to the minimum number of areas which would benefit from such services.

3424. Institute for Research and Education  
In Human Resources and Rehabilitation

Dr. Cobb met with Miss Kirkwood on July 20, 1966, and presented a review of developments to date.

The report which contains the purpose, definitions of uses, and estimated square footages for each proposed facility is available for review.

3425. Southwestern Public Service Company

The proposed agreement for the installation of power cables routed down Indiana Avenue was reviewed.

The Campus Planning Committee recommended acceptance of the agreement dependent upon the following information:

1. Detail showing size of manholes.
2. Information concerning the future width and route of Indiana Avenue.
3. System of coordination between the company and the College for establishing the grades at the manholes.

It was also agreed that the line should loop around west of the Herdsmen House and that the proposed route of the city water main be coordinated with the route of the power cable considering the possible widening of Indiana Avenue in the future.

3426. Wiggins Complex (CPC No. 97-65)

Chanslor E. Weymouth Hall

Chanslor E. Weymouth Hall will be used to house men students in keeping with the original plans.

Interior Designer

A recommendation was deferred until a later meeting.

Kitchen Equipment Installation Supervision

The architects proposed a fee for this service as follows:

20% of 6% = 1.2% of total kitchen equipment less portable items and less the amounts charged by Mr. Dana under the terms of his contract.

It was recommended that the proposal be accepted due to the advantage of on-site supervision with regard to the tight construction schedule.

Jerry Kirkwood  
 Coordinator

Campus Planning Committee  
July 21, 1966  
Attachment No. 662  
Item No. 3422

TEXAS TECHNOLOGICAL COLLEGE  
Lubbock, Texas

July 21, 1966

ENTRY STATIONS

It has become very apparent in the planning of the permanent entry stations that the street configuration immediately around the station is of real importance, and some changes must be made from what we now see at the temporary entry stations locations. At the present time, the only station that appears as though it might remain at its present location is the one on Boston Avenue. This one looks as if it would require the least amount of change of campus street configuration. As you are aware, the most difficult one to properly position is the one near the Bookstore, and we have developed some solutions there for Campus Planning Committee and Board review at the Board Meeting in Austin on July 25, 1966.

The proposed Tech entrance fountain and Amon G. Carter plaza design could very well affect the position of the entry station coming from the Broadway-College entrance to the College.

A meeting with the Traffic-Security Department and Campus Traffic Committee this week indicated that studies will be made on alternate positions for the entry stations near the Bookstore and the Broadway-College Avenue entrance, as well as a new station to be located on the north end of the campus near the Traffic-Security office. In addition, we would recommend, of course, that a permanent entry station not be planned for the west end of 15th Street near the Meats Lab since it is very likely Flint Avenue will some day be controlled, and maybe in the not-too-distant future.

This analysis is to point out that we presently have only one entry station which we feel is tried and positively set as far as its position, and this being the case, we are recommending that we are possibly ahead of ourselves in building permanent entry stations this soon. We are recommending that we erect quickly and inexpensively a very simple clean-line structure to keep the Campus Security patrolmen out of the weather, but that we still call it a temporary facility until we could do more master planning of the total traffic picture of Texas Tech.

Howard W. Schmidt  
Consulting Architect

B I D   T A B U L A T I O N  
TUNNELS AND UTILITIES EXTENSIONS

July 20, 1966

Texas Technological College

14 Interested Persons Were Present

CONTRACTOR	BASE BID	ALT. DEDUCT	BID BOND	ADDENDA #1
Anthony Company	\$ 98,000	\$15,000	X	X
O. W. Chisum & Co.	\$110,450	\$14,500	X	X
Roche Newton & Co.	\$107,507	\$14,190	X	X
Rountree Company	\$101,500	\$17,000	X	X

FOREIGN LANGUAGES-MATHEMATICS BUILDING  
TUNNELS AND UTILITIES EXTENSION

<u>Phase I</u>	<u>Total Cost</u>	<u>College Will Pay</u>	<u>Federal Government Will Pay</u>
Reworking of old tunnel	\$15,800.00	\$15,800.00	\$ -
 <u>Phase II</u>			
New tunnel, oversized to handle future buildings (Govt. allowed 66.32% for project)	76,000.00	59,198.93	16,801.07
 <u>Phase III</u>			
Electrical Service	<u>6,200.00</u>	<u>4,133.33</u>	<u>2,066.67</u>
Total	<u>\$98,000.00</u>	<u>\$79,132.26</u>	<u>\$18,867.74</u>

TEXAS TECHNOLOGICAL COLLEGE  
LUBBOCK, TEXAS

AGENDA FOR THE JOINT MEETING  
OF THE CAMPUS AND BUILDING COMMITTEE AND CAMPUS PLANNING COMMITTEE  
TO BE HELD AT 1:30 P.M. IN THE COMMODORE PERRY HOTEL, AUSTIN, TEXAS  
JULY 25, 1966

3427. Athletic Facilities

Paving the North Parking Area at Jones Stadium (Total bid based upon unit prices - \$11,437.88) OK

As authorized by the Board of Directors, the Campus and Building Committee approved the award of the contract to Bob Hunter Construction Company by letter to Mr. M. L. Pennington. The Chairman of the Board was also authorized to sign the necessary documents.

Included in the documents for the signature of the Chairman of the Board was a Permit to Construct Access Driveway Facilities on Highway Right of Way as prepared by the Texas Highway Department. The permit is attached for record purposes.

*approval action of Bldg. Comm.*

3428. Biology Building (CPC No. 99-65) (Pierce & Pierce)

Consider the presentation of the preliminary plans by the architects.

Reservations concerning the exterior design and the first floor level are contained in the Campus Planning Committee Minutes of Meeting No. 302, July 14, 1966.

A letter to the architects from Mr. Bill Felty is attached for information.

3429. Central Heating and Cooling Plant (CPC No. 105-66)  
(Zumwalt & Vinther, Engineers)  
(Pitts, Mebane, Phelps & White, Architects)

Site

The tunnel and utility extension work required for the Wiggins Complex cannot be started until the site of the Central Plant has been established.

The Campus Planning Committee recommended, dependent upon the concurrence of the architects and engineers, that the proposed site be moved to the west in order to leave one or two building sites on flint.

It was further recommended that the architects and engineers study every possibility for decreasing the amount of land required without detriment to the operation.

*Thru to  
conservation  
don't - cost  
budget - architect  
w.c.c. +  
reduces  
- give  
planned*

*see location  
Bldg. Comm  
proposed  
Pitts, Mebane  
meet 8:00 AM*

3429. Central Heating and Cooling Plant (CPC No. 105-66)  
(Zumwalt & Vinther. Engineers)  
(Pitts, Mebane, Phelps & White, Architects)

Tunnels and Utilities Extension

*yes*  
 Consider the recommendation that the engineers be authorized, under the provisions of their contract with the Board of Directors, dated December 23, 1965, to begin the design phase of the contract. The design phase includes the route of the tunnel, sizing of piping, necessary electrical cable, etc.; preparation of plans and specifications, bidding documents and participation in awarding of contracts.

Fees for such services are outlined in the original engineering survey contract by method of tabulation of services performed.

3430. Consulting Architect

Entry Stations

*OK on intermediate money OK - same as per CPC site approved*  
 Consider the presentation of the proposed stations by Mr. Howard Schmidt, Consulting Architect, and the recommendation that the stations remain temporarily located at the entry points proposed until there is sufficient time to change existing street configurations.

*1st step - better hand - great office - good service - not ready for work - not done - till morning - sound - 5th of month - entrance*  
 It has become apparent that traffic cannot move smoothly through and around some of the points of entry into the campus without some changes in the existing streets.

The Traffic and Security Committee is in agreement with the recommendation that the stations be placed in the proposed locations temporarily.

Title I Applications (Filing Date September 6, 1966)

Consider establishing a date for the review of the schematic plans for Architecture and Allied Arts and Home Economics

Title II Applications (Filing Date October 1, 1966)

Consider establishing a date for the review of the schematic plans for the Law School.

3431. Foreign Languages-Mathematics Building (CPC No. 87-64)  
(Pitts, Mebane, Phelps & White)

Construction of Tunnels and Utilities Extension  
(Zumwalt & Vinther, Engineers)

Bids were received on July 20, 1966, at 3 p.m., opened and read aloud in the presence of fourteen interested persons.

Consider the recommendation that the low bid from the Anthony Company Lubbock, in the amount of \$98,000 be accepted, and the Chairman of the Board be authorized to sign the necessary documents.

The bid tabulation is attached for review.

In addition, consider the recommendation that Zumwalt & Vinther be given authorization to begin the construction phase of the work under their contract for the Engineering Survey with the Board, dated December 23, 1965.

The construction phase entails the supervision of the contractor's work and the coordination between the owner and the contractor.

In accordance with Board action, the design phase of the contract was authorized and has been completed by Zumwalt & Vinther. The service performed has included the preparation of plans, specifications and bidding documents, etc., for the bids received on July 20, 1966.

The construction phase would require an additional fee as based upon the method of tabulation outlined in the original contract.

3432. Institute for Research and Education in Human Resources  
and Rehabilitation (CPC No. 104-66)

Dr. Beatrix Cobb met with Miss Kirkwood on July 20, 1966, and presented the program.

The report and program include definitions of uses, estimated square footages and costs for the proposed facility.

Possible financial participation in the project is also included.

The program is available for review.

3433. Museum



3434. Sidewalks (Asphalt and Concrete)

Plans and specifications were prepared by the Department of Grounds Maintenance. Estimated costs appear in the Campus Planning Committee Minutes, No. 302, July 14, 1966. #3416, p. 20

Tentative bid opening date is July 29, 1966, with work to begin in mid-August.

Consider the recommendation that the Campus and Building Committee be authorized to award the contracts and that the Chairman of the Board be authorized to sign the necessary documents.

3435. Southwestern Public Service Company

Routing of Power Cable Along Indiana Avenue

Consider the Campus Planning Committee's recommendation that the agreement be accepted dependent upon the following information:

1. Detailed drawing showing size and shape of manholes.
2. The proposed width and route of Indiana Avenue in the future.
3. A method of coordination between the College and the Company for establishing the grades at the manholes.

It is further recommended that the proposed route loop west around the herdsman house and that the route of the proposed city water main be coordinated very closely with the power cable route and the possible widening and opening of Indiana Avenue in the future.

auth. by the new regional council  
acceptable to CPC & College Admin.?

3436. Wiggins Complex (CPC No. 97-65)

Kitchen Equipment (Fixed) Installation and Supervision

Due to the critical construction schedule and the advantage of having on-site supervision available as necessary, consider the Campus Planning Committee's recommendation that the architects be authorized to supervise the installation of fixed equipment based upon the fee for this service as follows:

Original contract with architects:

6% fee  
20% of 6% for supervision of work

Therefore:

20% of 6% = 1.2% for total kitchen equipment less portable items and less amounts charged by the Food Consultant under the terms of his contract.

Mr. Arthur Dana, Food Consultant, has been contacted by the architects and is agreeable to the terms above mentioned.

Review of Budget - no funds  
available yet due to some  
reason to be determined see also to per-  
sonal application. Will know in  
about 2 wks. Have filed a request.  
3436. Wiggins Complex (CPC No. 97-65)

Tunnels and Utilities Extension

*reference*  
The schedule for the completion of Phase I, Wiggins Complex, is  
critical and the design of the tunnels and utilities extension  
coordinated with the site location of the Central Plant should  
be started as soon as possible. (Reference: Item 3429,  
Central Heating and Cooling Plant)

+ Gen. Bldgs.  
Funds Available (Report Attached)

see report

review Const. Bldg. Amend.  
steps -  
funds available:

Power House - revenue bonds

skules act - take \$5 from  
tuition

Bldg. Union - \$500

some questions of eligible  
projects

all possible sources

Keep 1  
PERMIT TO CONSTRUCT ACCESS DRIVEWAY FACILITIES  
ON HIGHWAY RIGHT OF WAY

Form 1058

To: Texas Technological College  
W. Broadway  
Lubbock, Texas, 79406

Attn: Mr. Marvin Dvoracek

Hwy. No. US 82 Permit No. SKS  
Control 380 Section 1  
Lubbock, Lubbock County

Date June 29, 1966

Dear Sir:

The Texas Highway Department hereby authorizes you to (re) construct facilities on the highway right of way for development of access to your property abutting Highway No. US 82 in Lubbock, Lubbock County, located south side of the roadway and east of Boston Avenue, provided you agree to and comply with the following conditions:

1. Design of facilities shall be as follows and/or as shown on sketch: The barrier curb shown in red shall be installed within one week following the removal of existing curb as approved by this permit.

All construction and materials shall be subject to inspection and approval by the State Highway Department.

2. Maintenance of facilities constructed hereunder shall be the responsibility of the grantee, and the State Highway Department reserves the right to require any changes, maintenance or repairs as may be necessary to provide protection of life or property on or adjacent to the highway. Changes in design will be made only with approval of the State Highway Department.
3. The grantee shall hold harmless the State Highway Commission and its duly appointed agents and employees against any action for personal injury or property damage sustained by reason of the exercise of this permit.
4. The grantee shall not erect any sign on or extending over any portion of the highway right of way, and vehicle service fixtures such as service pumps, vendor stands, tanks or water hydrants shall be located at least twelve (12) feet from the right of way line to insure that any vehicles serviced from these fixtures will be off of the highway.

This permit shall be subject to the concurrence of the municipality.

The State Highway Department will assist as follows: \_\_\_\_\_

(SEE SPECIAL PROVISION ON BACK)

This permit shall not be valid until grantee signs the statement in which he agrees to comply with the conditions herein. Mr. G.C. Owen, Maint. Const. Foreman III, (Ph SH 4-8411) Box 771, Lubbock, Texas \_\_\_\_\_ should be contacted at least twenty-four (24) hours before beginning the work authorized by this permit.

STATE HIGHWAY DEPARTMENT

By \_\_\_\_\_  
District Engineer

I (We), the undersigned, hereby agree to accept and comply with the terms and conditions set out in this permit for construction of access driveway facilities on highway right of way.

WITNESS: \_\_\_\_\_

SIGNED: \_\_\_\_\_

## ACCESS DRIVEWAY REGULATIONS

The State Highway Commission, in recognition of its responsibility for the safety and utility of public highways under its jurisdiction, has directed the adoption of rules and regulations to accomplish a coordinated development between highways and abutting property. For this purpose, the booklet entitled "Regulations for Access Driveways to State Highways" was published and adopted, setting out Departmental policies to regulate construction and maintenance of access driveway facilities.

---

## SKETCH OF INSTALLATION

### SPECIAL PROVISION

The driveway from Fourth Street shall be closed with a chain except immediately prior to and during football games and other special activities using Jones Stadium only.

The driveway from Boston Avenue shall be closed immediately prior to and during football games i.e. this driveway shall be closed when the one-way driveway from Fourth Street is open to traffic and may be open when the driveway from Fourth Street is closed.

If, at any time, this requirement is violated, the Texas Highway Department reserves the right to close the one-way driveway from Fourth Street by replacing the curb.

JUL 18 1966

July 15, 1966

Mr. Robert Deshayes  
Pierce & Fierce, Architects  
2217 Welch  
Houston, Texas

Dear Mr. Deshayes:

Re: Biology Project

The Campus Planning Committee has reviewed the most recent drawings for the project.

The Committee has expressed some reservation concerning the exterior design treatment of the tower screen - railing and the auditorium shape. It was generally agreed that a color perspective would be of considerable benefit when the project is presented to the Board.

I trust that such a rendering will be available. It would probably be wise to have some alternate ideas of the railing treatment in mind, should the Board of Directors take serious issue with the proposed solution.

The first floor plan including the auditorium received a great deal of study and it was concluded that the entire first floor plan should be revised subsequent to the presentation to the Board of Directors.

Some specific comments were:

1. People should be able to go from one area of the building to the other without going outside.
2. The large tiered classrooms should be entered from the rear rather than the front.
3. Entry into the large auditorium from the lobbies should be more direct. The long corridors at the rear are wasteful.
4. The viewing angles of the side seats at the front of the auditorium are too extreme.
5. Opening the faculty lounge, and the toilets directly onto the main lobby is not desirable.
6. The Department Head's Office located adjacent to the toilet rooms will be a source of constant irritation.

Mr. Robert Deshayes

July 15, 1966


Page 2

I am confident that a suitable plan can be devised; however, we are all aware that the time element will not allow any major changes prior to the Board presentation.

The meeting has been scheduled for 1:30 p.m. July 25, 1966 at the Commodore Perry Hotel in Austin, Texas.

A conference room has been reserved for the meeting.

Yours truly,

  
Bill Felty  
Assistant Supervising Architect

BF/si

CC: Mr. M. L. Pennington  
Mr. Nolan E. Barrick  
Mr. Elo Urbanovsky  
Miss Jerry Kirkwood

TEXAS TECHNOLOGICAL COLLEGE  
Lubbock, Texas

MINUTES OF THE CAMPUS PLANNING COMMITTEE

Meeting No. 304

July 25, 1966

A meeting of the Campus and Building Committee of the Board of Directors and the Campus Planning Committee was held at 3 p.m. on July 25, 1966, in Room 308, Commodore Perry Hotel, Austin, Texas.

Members of the Building Committee present were Mr. Harold Hinn, Chairman, Mr. Herbert Allen, and Mr. C. A. Cash. Other members of the Board of Directors in attendance were Mr. J. Edd McLaughlin, Mr. Alvin R. Allison, and Mr. Retha R. Martin.

Member of the Campus Planning Committee present was M. L. Pennington, Chairman. Others present from the College were President R. C. Goodwin, Dr. Grover E. Murray, President elect, Dr. W. M. Pearce, Mr. J. Roy Wells, Mr. R. B. Price, Mr. Ron Hamm, and Mr. Howard W. Schmidt, Consulting Architect. Mr. George Pierce and Mr. Bob Deshayes, architects, were present for the presentation of the Biology Building plans. Mr. Wayne James of the Texas Tech Ex-Students Association and Mr. Kenneth May of the Press were present.

The following items reflect the action of the Building Committee and the Board of Directors.

3427. Athletic Facilities

Paving the North Parking Area at Jones Stadium (Total bid based upon unit prices - \$11,437.88)

The Board approved the action of the Building Committee in awarding the contract to Bob Hunter Construction Company of Lubbock, the low bidder, in the amount of \$11,437.88 to be paid from Athletic Department funds, and authorized the Chairman to sign the contract and the "Permit to Construct Access Driveway Facilities on Highway Right of Way."

3428. Biology Building (CPC No. 99-65) (Pierce & Pierce)

Mr. George Pierce presented the developments to date and answered questions on the budget, original charges to the architects, capacity use factor, site orientation, number of stories, special facilities, flexibility, lighting, auditorium, exterior design, materials, effect of interior arrangements on exterior design, exhaust stacks, greenhouses on the roof, roof line, etc.

The construction cost estimate is \$3,360,000. The square foot cost, including permanent equipment, is \$24.45.

The Conservatory is not included in the budget and would be bid as an alternate.

There was much discussion of the exterior design and the compatibility with existing buildings.

As there is to be an August meeting of the Board of Directors, it was agreed that the Building Committee and the Campus Planning Committee should restudy the project and bring it back to the Board at the next meeting.

3429. Central Heating and Cooling Plant (CPC No. 105-66)  
(Zumwalt & Vinther, Inc., Engineers)  
(Pitts, Mebane, Phelps and White, Architects)

A. Site

The Board agreed to leave the site to the Building Committee, and Mr. Hinn and Mr. Cash said they could meet soon.

B. Site Usage

It was agreed that the architects and engineers should study every possibility to reduce the amount of land required for the project.

C. Tunnel and Utility Extensions

Authorized Zumwalt & Vinther, engineers, to begin the design phase of the project under the terms of the contract dated December 5, 1965.

3430. Consulting Architect

A. Entry Stations

Approved the recommendations of the Traffic and Security Commission and the Campus Planning Committee that the second or intermediate phase of the entry stations be constructed and that the permanent entry stations not be constructed until further study and experience.

Mr. Howard Schmidt presented the developments to date.

B. Title I Applications (Filing Date September 6, 1966)

Approved the review of the schematic plans for Home Economics and Architecture facilities at the August meeting.

C. Title II Applications (Filing Date October 1, 1966)

Approved the review of the Law School schematic plans at the August meeting.

3431. Foreign Languages-Mathematics Building (CPC No. 87-64)  
(Pitts, Mebane, Phelps & White)

Construction of Tunnel and Utility Extensions  
(Zumwalt & Vinther, Inc., Engineers)

Approved a contract award to Anthony Company of Lubbock, the low bidder, in the amount of \$98,000 and authorized the Chairman to sign the necessary documents.

Authorized Zumwalt & Vinther, engineers, to begin the construction phase under the terms of their contract dated December 23, 1965.

3432. Institute for Research and Education in Human Resources  
and Rehabilitation (CPC No. 104-66)

The following was presented for information:

Dr. Beatrix Cobb met with Miss Kirkwood on July 20, 1966, and presented the program.

The report and program include definitions of uses, estimated square footages and costs for the proposed facility.

Possible financial participation in the project is also included.

The program is available for review.



3433. Museum

In order to establish a specific amount from Constitutional Building Amendment funds to replace the present facilities, the Board approved a change in the procedure from 36,000 square feet at an estimated cost of \$497,000 to the fixed amount of \$500,000.

3434. Sidewalks (Asphalt and Concrete)

Authorized the Building Committee to award the contract and the Chairman to sign the necessary documents to install approximately 54,000 square feet of asphalt walks at an estimated cost of \$21,660 and approximately 32,900 square feet of concrete walks at an estimated cost of \$11,515, the amounts to be paid from appropriated funds, Bookstore funds, and funds for the temporary buildings.

3435. Southwestern Public Service Company

Agreed to consider at the August meeting the additional studies recommended by the Campus Planning Committee as follows:

1. Detailed drawing showing size and shape of manholes.
2. The proposed width and route of Indiana Avenue in the future.
3. A method of coordination between the College and the Company for establishing the grades at the manholes.

The Board reminded the Campus Planning Committee to be sure that a specific provision is included in the agreement for the Company to move its lines at its expense to avoid crossings with utility tunnels, etc., in the future.

3436. Wiggins ComplexA. Kitchen Equipment (Fixed) Installation and Supervision

Approved the Campus Planning Committee's recommendation that the project architects be authorized to supervise the installation of the fixed equipment for a fee of 1.2% of the cost of the total kitchen equipment less the amount for movable equipment and less the amount charged by Mr. Arthur W. Dana, consultant, under the terms of his contract.

B. Tunnel and Utilities Extension

Action was postponed pending site selection.

3437. Funds Available

The report on the "Present and Proposed Building Program" was presented and discussed and is attached to and made a part of the Minutes. (Attachment No. 664, page 2041)

The Board requested that the report be brought up to date and presented at each meeting.

The Board asked the Campus Planning Committee to see if any other items could be included in the proposed bond issue for the Central Heating and Cooling Plant.

The Board approved the recommendation that additional funds be sought under the Skiles Act and Building Use Fee or Fees.

M. L. Pennington  
Chairman

Campus Planning Committee  
 July 25, 1966  
 Attachment No. 664  
 Item No. 3437

TEXAS TECHNOLOGICAL COLLEGE  
 Lubbock, Texas

Present and Proposed Building Program  
 (Does Not Include Auxiliary Enterprise Projects)

July 15, 1966

Source of Funds Available

Last Notes on 5¢ Ad Valorem Tax	\$ 1,500,000
Interest earned through June, 1966	123,000
Bond Sales through January, 1967--10¢ Ad Valorem Tax	7,780,000
Bond Sale July, 1967--10¢ Ad Valorem Tax	1,340,000
Bond Sale July, 1968--10¢ Ad Valorem Tax	1,610,000
Estimated interest to be earned to August, 1968	<u>250,000</u>
Estimated Ad Valorem Tax Funds Available	<u>\$12,603,000</u>

<u>Building Projects</u>	<u>Estimated Earliest Completion Date</u>	<u>Estimated Cost</u>	<u>Estimated College Funds</u>	<u>Estimated Facilities Act Funds</u>	<u>Remarks</u>
Horse Facilities	April, 1966	\$ 59,000	\$ 59,000	\$	
Engineering Survey	May, 1966	10,000	10,000		
Temporary Buildings	Sept., 1966	163,500	163,500		Originally it looked like it would cost at least \$100,000 to acquire 8 classroom and 2 faculty office buildings. The College is now acquiring 19 buildings for classrooms, laboratories, research space and faculty offices, including 4 for the new Law School. The estimated cost figure includes movable classroom and laboratory furniture.
Library Completion	Oct., 1966	234,278	156,185	78,093	Shelving and other movable furniture due in October.
Foreign Language-Mathematics Building Reworking Old Tunnel and Oversizing of New Tunnel to Foreign Language- Mathematics Building	April, 1967	1,350,000	900,000	450,000	
Relocation of Museum	Sept., 1966	41,397	41,397		Original Concept--Balance of funds \$219,800 to come from gifts and West Texas Museum Association Funds

Present and Proposed Building Program (Continued)  
(Does Not Include Auxiliary Enterprise Projects)

Building Projects	Estimated Earliest Completion Date	Estimated Cost	Estimated College Funds	Estimated Facilities Act Funds	Remarks
Central Heating and Cooling Plant--Phase I	Aug., 1967	\$ 1,320,000	\$ 1,152,290	\$ 167,710	The Facilities Act funds are included in the Biology Building and Chemistry Building Applications. This federal money is available only if the Central Plant and the projects are built concurrently.
Business Administration Building	April, 1968	4,565,066	3,065,066	1,500,000	Grant approved
Biology Building	June, 1968	4,669,615	3,113,077	1,556,538	Title II Application pending--Title I Application to be reconsidered September 6, 1966, by Coordinating Board
Chemistry Building Addition	June, 1968	4,164,605	2,776,403	1,388,202	Title II Application pending--Title I Application to be filed by September 6, 1966.
Home Economics Addition	July, 1968	1,500,000	1,000,000	500,000	Title I Application to be filed by September 6, 1966. Any Title II Application on this project probably won't receive consideration until late 1967 as Biology and Chemistry applications are still pending and the Law School application is to be filed by October 1, 1966.
Law School Building	Aug., 1968	1,031,900	687,934	343,966	Title II Application to be filed by October 1, 1966
Architecture Building Addition	Sept., 1968	2,667,000	1,778,000	889,000	Title I Application to be filed by September 6, 1966.
Total Above		\$22,493,161	\$15,399,852	\$6,873,509	
Less Duplicated Amounts on Power Plant		-503,130	-335,420	-167,710	
Net Total		\$21,990,031	\$15,064,432	\$6,705,799	Plus \$219,800 from donation on Museum

Present and Proposed Building Program (Continued)  
(Does Not Include Auxiliary Enterprise Projects)

<u>Other Building Projects Not Yet Programmed</u>	<u>Estimated Cost</u>
Engineering Hydrology Lab	\$ (?)
Music Building Addition	(?)
Physical Plant and Warehouse Addition	397,500
Administration Building	1,200,000
Agricultural Plant Sciences Addition	(?)

TEXAS TECHNOLOGICAL COLLEGE  
Lubbock, Texas

MINUTES OF THE CAMPUS PLANNING COMMITTEE

Meeting No. 305

August 4, 1966

A meeting of the Campus Planning Committee was held at 3 p.m. on August 4, 1966, in Room 120 of the Administration Building. Members present were Chairman M. L. Pennington and Mr. Nolan E. Barrick. Mr. E. J. Urbanovsky remains in the hospital. Other members of the College staff present were Mr. O. R. Downing, Dr. Bill Kitchen, Mr. Marvin Dvoracek and Miss Jerry Kirkwood. Mr. Howard Schmidt, Consulting Architect, was also present.

Mr. Robert W. Burr and Mr. Samuel W. Wahl represented the City of Lubbock.

3438. Water Main along Indiana Avenue

Mr. Wahl presented a schematic drawing showing the proposed route of a 30 inch line from the railroad intersection at 4th Street following the Brownfield Highway to the underpass at the Highway. The line would then turn south and follow Indiana Avenue to intersect with an existing 16 inch water main at 19th Street.

Mr. Burr offered several schematic routes for Indiana Avenue showing intersections at the Brownfield Highway and Indiana.

It is proposed presently that the center line of Indiana would be the section line which falls near Indiana. Detailed traffic patterns are in the early study stages, but Mr. Burr and Mr. Wahl foresee no problems with the proposed route of the water main.

The proposed completion date of the main is June 1, 1967, and service would be realized in the summer of 1967.

The Campus Planning Committee recommended that the proposal for the route of the 30 inch water main be accepted subject to the minor refinement.

A formal request outlining the route and other details will be prepared by the City of Lubbock and forwarded to the Campus Planning Committee.

Legislative approval of the easement will be necessary.

3439. Southwestern Public Service Company

It has been agreed that the location of the power cable, the water main and the future of Indiana should be coordinated. All parties concerned have been requested to work closely together in order to avoid complicated reworking of utilities and tunnels considering future expansion of the College into these areas.

Jerry Kirkwood  
Coordinator

---

The meeting adjourned at 4:20 p.m.

TEXAS TECHNOLOGICAL COLLEGE  
Lubbock, Texas

MINUTES OF THE CAMPUS PLANNING COMMITTEE

Meeting No. 306

August 5, 1966

A meeting of the Campus Planning Committee was held at 3 p.m. on August 5, 1966, in Room 120 of the Administration Building. Members present were Chairman M. L. Pennington and Mr. Nolan E. Barrick. Mr. E. J. Urbanovsky remains in the hospital recovering from a recent operation.

Other members of the College staff present were Dr. Bill Kitchen, Dr. Earl Camp of the Biology Building Faculty Committee and Miss Jerry Kirkwood.

Mr. Howard Schmidt, Consulting Architect, was present.

Mr. Bob Deshayes, architect, was present for the presentation of the Biology Building revisions.

Purpose of the meeting was to review the revisions requested of the architects at the Campus Planning Committee Meeting No. 302 and the joint Meeting No. 304 of the Campus and Building Committee of the Board of Directors and the Campus Planning Committee.

3440. Biology Building (CPC No. 99-65) (Pierce & Pierce)

Exterior Design

Mr. Deshayes presented a graphic overlay of drawings showing the architects' proposal of canting the metal railing at the top floor greenhouse level. The drawings indicated, also, the inclusion of vertical windows in the bays between the vertical exhaust stacks at the sixth floor level. Mr. Deshayes explained that these windows served no purpose other than a decorative element, and were not desirable as they lend no benefit to the functions of the areas at that floor level. The possibility of covering these proposed window openings with a solar screen treatment reflecting the tile colors and tones on the existing buildings was discussed.

The Campus Planning Committee recommended that Mr. Deshayes study the addition of caps at the vertical stacks and east and west end stair and elevator towers, and that solar tile in the clay tile roof color range be utilized for the screening at the greenhouse level.

The Committee did not feel that the windows at the sixth floor accomplished a great improvement in the design and that if they were not necessary for the function of the interior, they probably should not be included.

First Floor Plan

The architects had restudied the plan considering all points previously questioned by the Campus Planning Committee.

Several exterior doors have been eliminated and the interior circulation improved. The administrative area and the student counseling areas remained at the east end of the building with classrooms to the west.

The Campus Planning Committee recommended that these areas be reversed so that the major student traffic would flow to and from the main building to the auditorium without interfering with the administrative areas.

3440. Biology Building (CPC No. 99-65) (Pierce & Pierce)

First Floor Plan (continued)

It was also recommended that the 150 capacity classroom seating arrangement be restudied to best serve the use of audiovisual aids.

The auditorium had been restudied and, with the increased size of passageways, the circulation problem was relieved. The seating had been changed so that the viewing angles are acceptable.

Jerry Kirkwood  
Coordinator

---

The meeting adjourned at 5:15 p.m.

TEXAS TECHNOLOGICAL COLLEGE  
Lubbock, Texas

MINUTES OF THE CAMPUS PLANNING COMMITTEE

Meeting No. 307

August 6, 1966

A meeting of the Campus and Building Committee of the Board of Directors and the Campus Planning Committee was held at 9 a.m. on August 6, 1966, in the Plot Plan Room, Physical Plant Building on the campus.

Members of the Building Committee present were Chairman Harold Hinn and Mr. C. A. Cash. Members of the Campus Planning Committee present were Chairman M. L. Pennington and Mr. Nolan E. Barrick.

Others present from the College were Mr. John G. Taylor, Mr. O. R. Downing, Dr. Bill Kitchen, Miss Evelyn Clewell, Mr. Bill Felty, Drs. Earl Camp and Lyle Kuhnley, representing the Biology Building Faculty Committee, and Miss Jerry Kirkwood.

Mr. Howard Schmidt, Consulting Architect, was present.

Mr. Bob Deshayes was present for the presentation of the revised Biology Building design concept and first floor plan.

3441. Biology Building (CPC No. 99-65) (Pierce & Pierce)

Exterior Design

Mr. Deshayes presented the original design concept, overlays showing the canted metal railing and the solar tile screening treatments at the greenhouse level, as well as the drawing showing the additional windows at the sixth floor. The possibility of covering the windows with solar tile was mentioned.

The overlays described above included a cap at the vertical stacks and at the stair and elevator towers.

The Building Committee recommended that the caps at the stacks and tower ends be included and that the solar tile screen reflecting the existing roof tile ranges in color be incorporated at the greenhouse level. The Committee further recommended that the architects study the possibility of treating the ground floor with an arch effect, should this not be detrimental to the design and not add appreciably to the cost of construction.

Mr. Deshayes commented upon the concept of the orientation of the building. The architects conceived a plan whereby the Biology Building would be approached from the south by a broad, brick-paved pedestrian mall which would begin off the proposed pedestrian mall west of the Library in the future. The Biology Building and the auditorium will be placed upon a brick-paved plaza.

First Floor Plan

The changes in the plan reflecting the improved circulation and student traffic flow in the main building were presented.

The Building Committee recommended that the plan locating the administrative and student counseling areas to the west be accepted and concurred with the Campus Planning Committee that the seating arrangement in the 150 capacity classroom be designed for the use of audiovisual aids.



3441. Biology Building (CPC No. 99-65) (Pierce & Pierce)First Floor Plan (continued)

The improved auditorium plan was presented, and the Building Committee recommended that it be accepted subject to the following:

1. Square feet be added to the auditorium sufficient to maintain a 500 seat capacity with proper circulation being maintained for the anticipated student traffic loads at peak times, and adequate space between front and back of seating.
2. The architect was requested to study the addition of an entrance at the west side of the auditorium.

The architect was asked to revise the original design and the first floor plan in keeping with the recommendations above and to present the revised preliminary drawings to the Building Committee on August 19, 1966, and to the Board of Directors on August 20, 1966. The brochure will not be revised.

The architects were authorized by the Building Committee to proceed with the construction drawings, incorporating all recommended changes.

(Mr. Deshayes and Drs. Earl Camp and Lyle Kuhnley left the meeting.)

3442. Business Administration Building (CPC No. 98-65)

(Page, Southerland, Page)

The Building Committee requested the architects to restudy the exterior design of the building to make it more compatible with existing buildings.

(Mr. Robert White, Mr. Dan Talley, Mr. Jack Roberts, and Mr. J. T. Worley entered the meeting.)

3443. Central Heating and Cooling Plant (CPC No. 105-66)

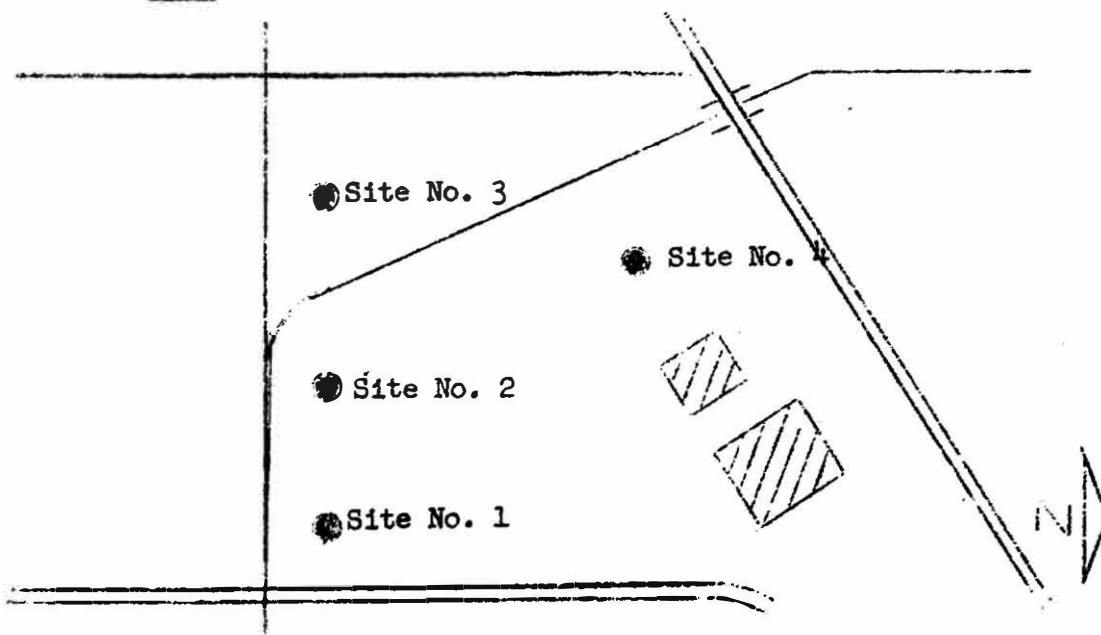
(Zumwalt and Vinther, Inc., Engineers)

(Pitts, Mebane, Phelps & White, Architects)

Refrigeration Unit

It was explained that the one refrigeration unit now on order will serve only the Wiggins Complex and the proposed Business Administration and Biology Buildings.

Considering the long delivery schedule, the Building Committee recommended that the College start procedures immediately for purchasing the second refrigeration unit.

Site

3443. Central Heating and Cooling Plant (CPC No. 105-66)  
(Zumwalt and Vinther, Inc., Engineers)  
(Pitts, Mebane, Phelps and White, Architects)

Site (continued)

Site No. 1 as was shown on the Engineering Survey is the most economical location. Site No. 2 would cost an additional \$100,000; Site No. 3, \$200,000; and Site No. 4, \$300,000.

The Plant would have two levels above grade rising approximately 40 feet, with one level 20 feet below grade.

The ultimate Plant would be a 20 year installation and be approximately 300 feet by 300 feet in land coverage as now proposed. The functions of the equipment affects the locations of the First Phase equipment and future equipment.

This ultimate Plant will provide steam of four to five times the amount required by the existing buildings and six times the air conditioning load.

The First Phase of the structure of the Plant cannot be expected to be complete until 1968; however, the First Phase equipment is planned to be in operation and housed by temporary means in September, 1967.

The Building Committee recommended that Site No. 4 be accepted as the general site and that the Campus Planning Committee, the architects, and the engineers work out the details remembering that:

1. The land coverage be conserved.
2. The First Phase of the Plant be located with expansion in mind.
3. The initial phase will not include on-site electrical power generation equipment but that the ultimate design be prepared to handle electrical power generation. The boilers are designed to be a part of the power generating equipment.

The architects were reminded that schematic plans, elevations, etc. will be required for the applications for matching funds to be filed on September 6, 1966.

The Building Committee requested the architects and engineers to have the location of the Plant firmly located on Site No. 4 for presentation to the Committee on August 19, 1966.

Jerry Kirkwood  
Coordinator

---

The meeting adjourned at 11:10 a.m.

TEXAS TECHNOLOGICAL COLLEGE  
Lubbock, Texas

MINUTES OF THE CAMPUS PLANNING COMMITTEE

Meeting No. 308

August 17, 1966

A meeting of the Campus Planning Committee was held at 3:30 p.m. in Room 120 of the Administration Building.

Members present were Chairman M. L. Pennington and Mr. Nolan Barrick. Dr. Bill Kitchen sat in for Mr. E. J. Urbanovsky who has been released from the hospital.

Other College staff members present were Mr. John Taylor, Miss Evelyn Clewell, Mr. O. R. Downing and Miss Jerry Kirkwood.

Howard Schmidt, Consulting Architect, was also present.

3444. Correction to the Minutes

The correction to the Minutes of Meeting No. 304 were approved as follows:

In addition to those Board members present for Meeting No. 304, Mr. Roy Furr was present.

Also in attendance from the College staff for the presentation of the Biology Building were Drs. Earl D. Camp and Lyle C. Kuhnley.

3445. Approval of Minutes

Minutes of Meetings No. 302, 303, 304, 305 and 306 were approved by consensus.

3446. President's Approval of Minutes

President Goodwin approved the Minutes of Meetings No. 302 on July 21, 1966; 303 on August 1, 1966; 304 on August 2, 1966; 305 on August 11, 1966; and 306 on August 12, 1966.

3447. Agricultural Facilities

Goat and Sheep Facilities

Mr. Howard Schmidt was asked to review the program with Dean Thomas before the necessary drawings are prepared.

The existing facilities will need to be moved on or before March 1, 1967, in order to clear the site of the Wiggins Complex.

Poultry Facilities

Mr. O. R. Downing presented his study for providing a sewer line to the area.

Considerable fill for the line at some points will be necessary, and it was the recommendation of the Campus Planning Committee that a septic tank be installed for temporary relief for the Poultry Facilities.

The tank cost is estimated at \$300 and will serve as a sand trap when a sewage line is installed to serve this and the other facilities in the area.

The Special Projects Fund will be used to finance the tank.

3447. Agricultural Facilities (continued)Rodeo Association

The Association will have funds available to install fencing around the area which has been designated in earlier approved documents.

Swine Facilities

The Campus Planning Committee recommended that farrowing facilities be provided in the designated farm area in order that the animals not be brought back into the central campus area.

Mr. Howard Schmidt was asked to confer with Dean Thomas.

3448. Business Administration Building (CPC No. 98-65)  
(Page, Southerland, Page)Interior Designer

A proposal from the architects has been received and reviewed.

Miss Kirkwood was asked to request the architects to clarify the proposal and meet with the architects and Mr. Haskell Taylor, Chairman of the Faculty Building Committee.

3449. Central Heating and Cooling Plant (CPC No. 105-66)  
(Zumwalt & Vinther, Inc., Engineers)  
(Pitts, Mebane, Phelps and White, Architects)Equipment

The Carrier Air Conditioning Company has offered the College the option of purchasing the second refrigeration unit along with the first unit under their bidding documents of May 24, 1966. The first unit is under contract for \$235,750. Two units would cost \$457,380.

The Campus and Building Committee recommended on August 6, 1966, that the second unit be purchased.

Additional information covering the possibilities of a power generation system has been received from the engineers. The Campus Planning Committee members are studying the information.

Site

The Campus Planning Committee recommended that the location as shown on the architect's drawing dated August 10, 1966, be accepted.

Time Schedule

The architects and engineers have been requested to follow a rigid schedule. (Attachment No. 665, page 2053)

Tunnels and Utilities Extension

The Campus Planning Committee recommended that the engineers be authorized to proceed with the Design Phase of the extensions from the existing facilities, near the Foreign Languages-Mathematics Building, to the site of the Wiggins Complex in order that the projects stay on schedule.

The engineers will review the proposed routing of the tunnels and utilities with the Campus Planning Committee.

3450. City of LubbockWater Main

It was recommended that the proposal for the location of a 30 inch water main along Indiana Avenue be accepted. It will require a ten foot easement.

The drawing was presented under a letter dated August 16, 1966.

The main and the proposed power cable have been coordinated with the future of Indiana Avenue.

3451. Classrooms and Offices (Temporary)

Mr. Downing reported the buildings are all on campus and that all classrooms and offices will be ready for occupancy when the fall semester begins.

3452. Consulting ArchitectAdministration Building Remodeling (East Wing, First Floor)

Mr. H. A. Padgett, contractor, has begun work.

Additional requests will be reviewed by a subcommittee.

Entry Stations (Temporary)

The temporary stations will be in place before inclement weather can be expected. Mr. Downing will be responsible for providing electrical service and means for telephone service to the areas and will coordinate the project.

The project will be financed from the Parking and Traffic Service Fund.

The general design was reviewed by the Campus Planning Committee and was accepted with the exception of a request for more glass area at the approach sides and the raising in height of warning lights.

Title I Applications (Architecture and Allied Arts) (Home Economics)

The filing date is September 6, 1966.

Mr. John Taylor reported various changes in the requirements and procedures outlined in the instructions and was asked to prepare the report in writing for record purposes.

Mr. Howard Schmidt is on schedule with the preparation of the various elements required for the applications and will present the narrative program design to the Campus and Building Committee on August 19, 1966.

It was recommended that the new procedures, which probably will not allow as large a percentage of financial participation as before, be recognized and that the applications be filed on September 6, 1966, as originally intended.

Mr. Taylor and Miss Kirkwood will prepare an outline of responsibilities for those involved in the preparation of the applications in order that the tight schedule can be met.

3453. Funds Available

Mr. Taylor was asked to revise the "Present and Proposed Building Program" tabulation.

3454. Library (South Basement and Third Floor) (CPC No. 101-65)  
(Pitts, Mebane, Phelps and White, Architects)

The final inspection was conducted on August 11, 1966.

Mr. Barrick reported that there were a number of minor items needing correction, and the punch list is being worked by the contractor.

The inspecting team felt that the light fixtures installed were not as specified, and the project engineer is working with the supplier to have the matter corrected.

3455. Museum (CPC No. 65-61) (Associated Architects and Engineers of Lubbock)

No additional information has been received.

3456. Sidewalks (Asphalt and Concrete) (Estimated Cost--\$30,991)

The award of the contract to the Bob Hunter Construction Company, the low bidder, was approved by Mr. Harold Hinn on August 6, 1966; by Mr. C. A. Cash on August 7, 1966; and by Mr. Herbert Allen on August 10, 1966.

The estimated cost includes \$11,385 for concrete walks, \$19,250 for asphalt walks and \$356 for concrete removal.

Actual cost will be determined based upon unit prices for areas installed. (Attachment No. 666, page 2054)

3457. Southwestern Public Service Company

It was recommended that the proposed route shown on the drawings dated revised August 16, 1966, be accepted.

The cable will be in the street right-of-way and has been coordinated with the City of Lubbock.

3458. Trash Receptacles for Pedestrians

Dr. Grover Murray has suggested that consideration be given to the placing of well designed receptacles at strategic points on the campus.

It was recommended that Mr. Urbanovsky study the possibilities.

3459. Wiggins Complex (CPC No. 97-65)  
(Schmidt and Stiles, Roberts and Messersmith, Architects)

Interior Designer

All of the proposals which have been submitted have been opened and reviewed by the Campus Planning Committee.

Chairman Pennington appointed Mr. Barrick, Mr. Schmidt and Miss Kirkwood to a subcommittee to further study the proposals and make a recommendation.

3460. Other Items

- A. The west elevator in Clement Hall has been taken out of service until repairs can be made.

An enter cylinder needs to be installed in the jack unit cylinder.

The repair will require approximately seven days and the estimated cost is \$1,426.

There is some question whether the College should be responsible for payment of the repair, and the situation has been referred to the project architects.

3460. Other Items (continued)

- B. Mr. John Taylor and Miss Kirkwood will prepare an outline of responsibilities for those people involved in securing various approvals during the completion of bidding and contract awards for projects under matching funds.
- C. A proposal for the transition of duties formerly performed by the Supervising Architect's office is being studied by the Campus Planning Committee members.

Jerry Kirkwood  
Coordinator

---

The meeting adjourned at 6:20 p.m.

2053  
Campus Planning Committee  
August 17, 1966  
Attachment No. 665  
Item No. 3449

TEXAS TECHNOLOGICAL COLLEGE  
P. O. Box 4508  
Lubbock, Texas 79409

Office of the Campus Planning  
Committee Coordinator

August 10, 1966

AIR MAIL

Mr. Robert White  
Pitts, Mebane, Phelps and White  
470 Orleans Street  
Beaumont, Texas 77701

Dear Mr. White:

Subject: Central Heating and Cooling Plant  
Texas Technological College

The Campus Planning Committee prefers to review your exact location of the subject project on the afternoon of August 18, 1966, prior to the presentation to the Building Committee of the Board of Directors on August 19, 1966, if at all possible. Your presence will not be necessary; however, the Committee will be pleased for you to attend if you so desire.

The schedule for having services to the Wiggins Complex and the Business Administration Building has been discussed in detail, and the following will bring you up-to-date on the requirements in order to have both in operation within the planned periods.

A six month erection time for the steam and refrigeration equipment has been established. Need for steam from the Central Plant is anticipated around November 15, 1967; therefore, we are forced to have tunnels and utilities extended from our existing system to the Wiggins Complex during the summer of 1967 so that the construction can be completed, systems balanced out, and necessary services provided for the operation of the Complex from occupation time until the services can be provided from the Central Plant.

Our existing system can carry the Complex under normal conditions, but we cannot depend upon it for all of the existing buildings and the Complex under severe weather conditions.

In order to meet the demands of the Wiggins Complex on September 1, 1967, for steam and air conditioning, the following schedule is proposed.

1. Approval of preliminary plans for the First Phase of the Central Heating and Cooling Plant by the Board of Directors in September and authorization to proceed with construction drawings. (There is no regular meeting scheduled; however, it is possible to arrange a meeting.)



Mr. Robert White  
Page 2  
August 10, 1966

2. Tunnels and Utilities Extension approved by the Board on October 18, 1966, and bids taken in November with award of contract approval sought at the December 3, 1966, meeting.
3. We would hope that the construction drawings for the Central Plant will be complete enough for Board review on December 3, 1966, and that bids could be taken in January, 1967. The Board could award the contract or contracts at the January 24 meeting in Austin.

If such a schedule can be maintained, it would be possible to have the necessary footings and foundation available for the boiler and refrigeration equipment near April 15, 1967. Allowing then the six months equipment erection period, the Central Plant system could be in operation for checking around October 15 and a dependable system in operation by the time severe weather can be expected.

It is understood that the possibility of having the equipment fully housed is limited but that temporary means of satisfactory protection can be achieved.

We shall continue to pursue the possibilities of financing the additional phases of construction by various means but will proceed with the First Phase with funds as are available.

Under the above proposed construction schedule, the necessary tunnels and utilities will be available for the Business Administration Building which is scheduled for occupation in September, 1968. Bids for this project will be taken in November, 1966.

Should you have any reservations concerning the proposed schedule, we will be happy to discuss them with you.

Yours truly,

/s/ Jerry Kirkwood

Jerry Kirkwood, A.I.A.  
Campus Planning  
Committee Coordinator

JK:c

cc: Mr. M. L. Pennington  
Mr. John G. Taylor  
Mr. R. B. Price  
Mr. Nolan E. Barrick  
Mr. O. R. Downing  
Dr. Bill Kitchen  
Mr. Howard Schmidt  
Mr. Jack Roberts  
Mr. J. T. Worley

TEXAS TECHNOLOGICAL COLLEGE  
 BID TABULATION

5 interested persons were present

2:00 p.m.  
 July 29, 1966

CONSTRUCTION OF CONCRETE AND ASPHALT WALKS

CONTRACTOR	BID BOND	BASE BID	ITEM #1		ITEM #2		TOTAL BID
			UNIT PRICE	TOTAL	UNIT PRICE	TOTAL	
Kerr Construction Company	NO BID	A					
		B					
		B					
		ALTERNATE					
Frank Hodges Cement Contractor	X	A	37¢/sq. ft.	\$12,210.00	21¢/sq. ft.	\$273.00	\$12,483.00
		B	40¢/sq. ft.	22,000.00	21¢/sq. ft.	378.00	22,378.00
		B					
		ALTERNATE	-----	(-)150.00	-----	-----	21,850.00
Bill Hood Dirt and Paving Contractor	NO BID	A					
		B					
		B					
		ALTERNATE					
Bob R. Hunter Construction Company	X	A	34 <sup>1</sup> / <sub>2</sub> ¢/sq. ft.	\$11,385.00	11 <sup>1</sup> / <sub>2</sub> ¢/sq. ft.	\$149.50	\$11,534.00
		B	35¢/sq. ft.	19,250.00	11 <sup>1</sup> / <sub>2</sub> ¢/sq. ft.	207.00	19,457.00
		B					
		ALTERNATE	(+)1 <sup>1</sup> / <sub>2</sub> ¢/sq. ft.	(+)275.00	-----	-----	19,732.00
Red Roberson Dirt and Paving Contractor	NO BID	A					
		B					
		B					
		ALTERNATE					

TEXAS TECHNOLOGICAL COLLEGE  
Lubbock, Texas

MINUTES OF THE CAMPUS PLANNING COMMITTEE

Meeting No. 309

August 18, 1966

A meeting of the Campus Planning Committee was held at 1:30 p.m. on August 18, 1966, in Room 120, Administration Building.

Members present were Chairman M. L. Pennington and Mr. Nolan E. Barrick.

Others present from the College were Mr. John G. Taylor, Miss Evelyn Clewell, Mr. O. R. Downing and Miss Jerry Kirkwood.

Mr. Howard Schmidt, Consulting Architect, was present.

Mr. Louis Southerland and Mr. Madison Mills were present for the presentation of the restudied exterior design of the Business Administration Building which was the purpose of the meeting.

3461. Business Administration Building (CPC No. 98-65)  
(Page, Southerland, Page)

Exterior Design

Perspective renderings in color showing the building as viewed from the southeast and as viewed from the northeast were shown, as well as a black and white perspective as viewed from the northwest. Elevations of the building also were shown.

Mr. Southerland explained the interior functions of the building and the proposed exterior materials usage. "Texas Tech" brick is the basic material.

The architects proposed to use steel for the lecture hall roofing and as a covering for the penthouse on the academic building.

Samples of the granite paneling, bronze glass and aluminum trim for the windows were shown.

The Campus Planning Committee recommended that a ceramic material be used for the lecture hall roofing and for the academic building penthouse covering. The Committee further recommended that a ceramic coping be incorporated near the edge of the stone caps at the academic building and the office building tower. The copings would aid the roofing installation and serve as ornamentation for the building.

The architects were asked to make the revisions as discussed and return to the Campus Planning Committee at 1:30 p.m. on August 19, 1966, for a review prior to the presentation to the Campus and Building Committee at 4 p.m. August 19, 1966.

Interior Designer

Mr. Southerland explained in detail the advantages of professional services. The architectural firm has the service provided within the organization, and Mr. Southerland stated that he would be glad for their Mr. Gowan to visit with the Committee.

The Campus Planning Committee recommended that the possibilities be studied in order that a definite recommendation can be made at a later date.

3461. Business Administration Building (CPC No. 98-65)  
(Page, Southerland, Page) (continued)

Time Schedule

The final construction drawings and specifications are scheduled for completion on September 23, 1966.

Mr. Southerland requested that at least four weeks be devoted to bidding time. In order to have sufficient time for required Board approval, HUD approvals and the award of construction contracts at the December 3, 1966, Board meeting, the architects were requested to set up a review time with the HUD offices and be present during the review in order that the process might be expedited.

Jerry Kirkwood  
Coordinator

The meeting adjourned at 3:10 p.m.

AGENDA FOR THE JOINT MEETING  
OF THE CAMPUS AND BUILDING COMMITTEE AND CAMPUS PLANNING COMMITTEE  
TO BE HELD AT 4 P.M. IN THE BLUE ROOM, STUDENT UNION BUILDING, ON THE CAMPUS  
August 19, 1966

- EETING  
CAMPUS PLANNING COMMITTEE  
UNION BUILDING, ON THE CAMPUS
- ref to CPC —  
holder if can't do it —*
- revised exterior design and

check  
out stop  
under

authorizes architects to proceed with  
subject to approval of the <sup>design</sup> ~~extension~~ by  
the P.P.C.

- Nisou -*  
*Hew. Eleonora*  
*S. S. C.*  
*R. R. C.*  
*K. R. C.*

Some

Sana

3463. Central Heating and Cooling Plant (CPC No. 105-66)  
(Zumwalt and Vinther, Inc., Engineers)  
(Pitts, Mebane, Phelps and White, Architects)

Carrier Air Conditioning Company has verbally stated that the College is eligible to accept the second refrigeration unit under the 30 day option which was offered on May 24, 1966.

Consider the approval of the recommendation of the Campus and Building Committee and the Campus Planning Committee that the College proceed with the purchase of the second unit.

The purchase of one unit is under contract, in keeping with Board action, in the amount of \$235,750. The option would allow the purchase of two units in the amount of \$457,380.

3463. Central Heating and Cooling Plant (CPC No. 105-66)  
(Zumwalt and Vinther, Inc., Engineers)  
(Pitts, Mebane, Phelps and White, Architects) (continued)

Site

Consider the recommendation that the site as shown on the drawing dated August 10, 1966, submitted by the architects be accepted.

Tunnels and Utilities Extensions

A letter has been sent to Mr. Robert White of Pitts, Mebane, Phelps and White concerning the time schedule for the Central Heating and Cooling Plant and is attached for record purposes.

Consider the recommendation that Zumwalt and Vinther be authorized, under the terms of the existing contract, to design the tunnel and utilities extensions from the existing facilities, near the Foreign Languages-Mathematics Building, to the tunnel and utilities connections at the Wiggins Complex site.

3464. City of Lubbock

Water Main

Consider the recommendation that the proposed location of a 30 inch water main as shown on the drawing prepared by the City of Lubbock be accepted.

*Consider Indiana Ave in connection with water & Elec. line*

The location has been coordinated with the proposed power cable location and the future of Indiana Avenue.

3465. Consulting Architect

Title I Applications

A "Summary of Changes in State Plan for the Higher Education Facilities Act of 1963, Title I (As they pertain to Texas Tech)" is attached for information.

Consider the recommendation that applications for matching funds for the following be filed on September 6, 1966.

Architecture and Allied Arts  
Biology Building  
Chemistry Facilities  
Home Economics

3466. Funds Available

A tabulation is attached for information.

3467. Sidewalks (Asphalt and Concrete) (Estimated Cost--\$30,991)

Bids were publicly opened and read aloud on July 29, 1966. Estimated cost for concrete walks is \$11,385; for asphalt walks, \$19,250; and for concrete removal, \$356. Actual cost will be determined based upon unit prices for areas installed.

The award of the contract to the Bob Hunter Construction Company, the low bidder, was approved by Mr. Hinn on August 6, 1966; by Mr. Cash on August 7, 1966; and by Mr. Allen on August 10, 1966.

Approve the action of the Campus and Building Committee.

3468. Southwestern Public Service Company

Consider the recommendation of the Campus Planning Committee that the proposal for the location of the power cable be accepted as shown on the drawing dated revised August 16, 1966.

*approved  
subject to  
coordination*

3469. Wiggins Complex (CPC No. 97-65)

Interior Designer

*authorizing Bldg. Comm. to approve  
one lecture meetings -*

TEXAS TECHNOLOGICAL COLLEGE

P.O. Box 4508

LUBBOCK, TEXAS 79409

OFFICE OF THE CAMPUS PLANNING  
COMMITTEE COORDINATOR

August 10, 1966

AIR MAIL

Mr. Robert White  
Pitts, Mebane, Phelps and White  
470 Orleans Street  
Beaumont, Texas 77701

Dear Mr. White:

Subject: Central Heating and Cooling Plant  
Texas Technological College

The Campus Planning Committee prefers to review your exact location of the subject project on the afternoon of August 18, 1966, prior to the presentation to the Building Committee of the Board of Directors on August 19, 1966, if at all possible. Your presence will not be necessary; however, the Committee will be pleased for you to attend if you so desire.

The schedule for having services to the Wiggins Complex and the Business Administration Building has been discussed in detail, and the following will bring you up-to-date on the requirements in order to have both in operation within the planned periods.

A six months erection time for the steam and refrigeration equipment has been established. Need for steam from the Central Plant is anticipated around November 15, 1967; therefore, we are forced to have tunnels and utilities extended from our existing system to the Wiggins Complex during the summer of 1967 so that the construction can be completed, systems balanced out, and necessary services provided for the operation of the Complex from occupation time until the services can be provided from the Central Plant.

Our existing system can carry the Complex under normal conditions, but we cannot depend upon it for all of the existing buildings and the Complex under severe weather conditions.

In order to meet the demands of the Wiggins Complex on September 1, 1967, for steam and air conditioning, the following schedule is proposed.

1. Approval of preliminary plans for the First Phase of the Central Heating and Cooling Plant by the Board of Directors in September and authorization to proceed with construction drawings. (There is no regular meeting scheduled; however, it is possible to arrange a meeting.)



Mr. Robert White  
Page 2  
August 10, 1966

2. Tunnels and Utilities Extension approved by the Board on October 18, 1966, and bids taken in November with award of contract approval sought at the December 3, 1966, meeting.
3. We would hope that the construction drawings for the Central Plant will be complete enough for Board review on December 3, 1966, and that bids could be taken in January, 1967. The Board could award the contract or contracts at the January 24 meeting in Austin.

If such a schedule can be maintained, it would be possible to have the necessary footings and foundation available for the boiler and refrigeration equipment near April 15, 1967. Allowing then the six months equipment erection period, the Central Plant system could be in operation for checking around October 15 and a dependable system in operation by the time severe weather can be expected.

It is understood that the possibility of having the equipment fully housed is limited but that temporary means of satisfactory protection can be achieved.

We shall continue to pursue the possibilities of financing the additional phases of construction by various means but will proceed with the First Phase with funds as are available.

Under the above proposed construction schedule, the necessary tunnels and utilities will be available for the Business Administration Building which is scheduled for occupation in September, 1968. Bids for this project will be taken in November, 1966.

Should you have any reservations concerning the proposed schedule, we will be happy to discuss them with you.

Yours truly,



Jerry Kirkwood, A.I.A.  
Campus Planning  
Committee Coordinator

JK:c

cc: Mr. M. L. Pennington  
Mr. John G. Taylor  
Mr. R. B. Price  
Mr. Nolan E. Barrick  
Mr. O. R. Downing  
Dr. Bill Kitchen  
Mr. Howard Schmidt  
Mr. Jack Roberts  
Mr. J. T. Worley

TEXAS TECHNOLOGICAL COLLEGE  
Lubbock, Texas

August 15, 1966

SUMMARY OF CHANGES IN STATE PLAN FOR THE HIGHER EDUCATION FACILITIES  
ACT OF 1963, Title I (As they pertain to Texas Tech)

1. Revised the application form in an attempt to make it easier to understand and to prepare.
2. Changed closing dates from July 1 and January 7 to September 6 and January 31. (There will be no January 31 closing date unless Congress should make more funds available. The Coordinating Board staff members advised the schools not to count on any additional funds as they feel Congress will not appropriate more.)
3. Provides a new point system to determine priority ratings.
4. The first priority project to be approved for a grant may receive 33 1/3% of eligible project development costs or a grant of \$1,000,000, whichever is least. (The prior maximum grant was \$1,500,000.)
5. Second, third and other priority projects which receive approval for a grant shall not receive a grant in excess of 10% of the eligible project development costs. (Was 33 1/3% or maximum of \$1,500,000. Attached is a statement issued by the Coordinating Board, Texas College and University System, which explains the Board's reasons for the changes.)
6. There is a provision to allocate any excess funds which may remain after all initial awards have been made based upon the above mentioned limitations. (Few people believe that this provision will ever be needed as there will always be a surplus of applications and need for funds.)
7. The method of including a portion of a central heating plant or other central utility facility has been radically changed for the better. Instead of trying to justify a small portion of the central plant for each project, the request may be added to one application. A calculation based upon the assignable square feet of instructional, library, and instructional related space in all buildings to be served by the central plant, including buildings to be completed in the next five years provides the pro rata part which can be included in the Title I application. (Since the Biology Building is the number one priority for Texas Tech and will, if approved, receive the maximum of \$1,000,000, the central heating and cooling plant will be filed with it.)
8. The new maximum amounts of federal grants under Title I reduces the total amount Texas Tech hoped to get by \$1,315,000.

## The Texas State Plan for Title I of the Federal Higher Education Facilities Act of 1963

The Coordinating Board, Texas College and University System receives frequent inquiries concerning the State Plan under which Federal grants under Title I of the Higher Education Facilities Act of 1963 are awarded to institutions of higher education for the construction of academic facilities.

The members of the Coordinating Board would be the first to admit that the State Plan itself does not on the surface always clearly convey the objectives of the Board to a layman or even to all professional administrators in the field of higher education. Therefore, the Coordinating Board sets forth briefly below its objectives under the State Plan and a commentary on its administration.

### Objectives of the State Plan

1. To assist in providing every individual with educational opportunities for the maximum development of his abilities and to meet the trained and qualified manpower needs of the State and Nation.
2. To support the general educational policies and goals of the State and further the improvement of the quality of all institutions of higher learning in Texas.
3. To direct the Federal allotment of funds to Texas to those institutions with the most urgent need for additional space to accommodate rapidly increasing student enrollments.
4. To distribute the funds among a large number of different institutions, both public and private, within any one year and over a period of years.
5. To use all of the grant funds available to Texas under the Act to meet demand in Texas for the funds so that no funds will revert to the U.S. Commissioner of Education for reallocation to other States until after all demand for grant funds in Texas has been met.
6. To treat all applicants for the funds equally without preference or advantage to any eligible institution on the basis of type of control, whether public or private.
7. To distribute funds among institutions with due regard to the availability of higher education facilities in the various geographic areas of the State.

### Federal Requirements

The U.S. Office of Education in implementing the Act requires special emphasis be placed on certain measurable factors to ensure that the objectives of the Congress in the Act are met. The emphasis or preference given to these factors is within the limits of points assigned under the State Plan to these factors.

1. Special emphasis must be given to space utilization in academic uses as a measurement of the relative need for and adequacy of space relating to enrollment and to encourage full and efficient year-round use of institutional facilities.

2. Special preference must be given to projects for institutions with the highest numerical and/or percentage increase in projected enrollment. (The measurement of the percentage increase, included at the direction of the Coordinating Board, provides a countervailing weight for the smaller institution experiencing enrollment pressures on its limited facilities vis-a-vis the large institution having a large numerical increase).
3. Special preference must be given to projects which are predominantly undergraduate in use.
4. Special preference must be given to projects with the greater amount and/or percentage increase in instructional and library space at the institution (again, the percentage increase was included at the direction of the Coordinating Board, in order to offset for the smaller institutions the large area increases typically included in projects from the larger institutions).
5. Special preference must be given to projects with larger portions devoted to instructional and library space over projects in which a larger portion is devoted to instruction related areas.
6. The State Plan is drawn in a way to provide reasonable equity in the competition for funds between existing and new institutions.
7. The State Plan is written to establish different standards for the determination of priorities for "public junior colleges" and "institutions other than public junior colleges."

#### Federal Control Prohibited

The Federal Act specifically states that the Act does not authorize any Federal control, direction, supervision, or requirements or conditions relating to the personnel, curriculum, methods of instruction, or administration of any institution.

Federal involvement by the U.S. Office of Education is limited to the administration of the grant program to ensure that the purposes of the Act are carried out. The Office of Education also has the responsibility to protect the Federal and public interest in the appropriate and prudent use of the Federal taxpayers' funds.

The Title I grant program of the Higher Education Facilities Act has served as the model for later legislation in delegating the major portion of the policy-making and decision-making on the allocation of the funds to the States. The program nationally is serving to strengthen the role of the States in the administration of higher education programs.

#### Closing Dates and Ratings

For purposes of rating all project applications, "closing dates" have been set. At these closing dates all applications on file are rated under the standards and criteria in the State Plan. Points are awarded under each criterion and finally all projects are ranked in order of the total points earned by each project. The funds are then allocated to each project in priority order in accordance with the methods in the State Plan for establishing the Federal grant.

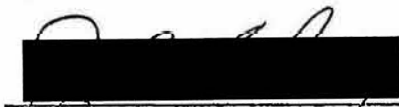
## Objectivity of the State Plan


In order to insure the objectivity of the State Plan, the Plan must provide firm criteria and methods for measuring the relative relationship of need for the funds in advance of rating the project applications. That is, within the limits of information and projections available, the Coordinating Board must program into the State Plan the factors for rating the institutions competing for the available funds. Obviously, were the results of the State Plan criteria at any particular closing date to give results with which there was disagreement, a new set of criteria could not be adopted at that moment to rate the projects anew to obtain a different result. This could permit the arrangement of criteria to reach a predetermined subjective priority order of the projects.

A major purpose of the State Plan is to provide to each institution a firm advance set of standards under which each institution may predict with reasonable certainty how its applications will be rated vis-a-vis all other applications. However, it should be clear that the State Plan is not assumed to give perfect results, unanimously supported by all parties affected by the Plan. Since the Plan will be recognized from time to time to be subject to improvement, it is not etched in stone and may be amended. Such changes may result from a recognition that the objectives are not adequately being met, or because the basic objectives may be found to have changed, or because objectives may be met in the wrong order, or because other objectives may be found desirable to be added. The Plan and the results under the Plan will be carefully analysed after each closing date to determine whether changes should be made. For purposes of evaluating the State Plan and recommending changes, a Consultative Committee has been created by the Coordinating Board. The membership of this committee includes representatives of each segment of higher education in Texas - public and private, junior and senior.

The State Plan is the official policy and procedural statement of the Coordinating Board of the Texas College and University System on how the competing projects will be rated for the allocation of Federal funds under the Higher Education Facilities Act of 1963.

The Coordinating Board has hired a competent and experienced staff responsible at all times to the Board for the equitable and fair administration of its State Plan. This staff is directed to maintain complete objectivity in the administration of the Plan and at all times to protect the integrity of the Coordinating Board's State Plan. This staff is always available to interested parties to discuss and explain the State Plan.

  
John E. Gray, Chairman

  
Jack K. Williams, Commissioner of  
Higher Education

Coordinating Board, Texas College  
and University System  
July 18, 1966

August 18, 1966

PROPOSED ARCHITECTURE BUILDING EXPANSION  
TEXAS TECHNOLOGICAL COLLEGE

The building program for the expansion of facilities for the Department of Architecture and Allied Arts was developed during the 1964-65 scholastic year. The program committee consisted of Robert Lockard, Willard Robinson, James Howze, Dudley Thompson and Nolan Barrick. The program submitted reflects the committee's conscientious consideration of the revision of teaching methods in order that the facility could provide the most efficient and beneficial use. The net programmed spaces have each been examined in detail relative to potential enrollments based on empirical data included with the program. The ultimate building would appear to need to accommodate a total of over 1600 majors by 1972 at the present rate of growth.

The Department of Architecture was the fourth largest department in total enrollment in the United States in the Fall of 1966 and has been growing at a slightly more rapid rate than the national figure, due to the increased area being serviced. In 1966 the department had students from 26 states and the District of Columbia included in the enrollment, together with students from six foreign countries. It is assumed that the School will continue to grow in accordance with past experience, although it is entirely possible that the growth will be accelerated by the following situations.

1. The Coordinating Board has designated Texas Tech as one of four state supported Schools of Architecture and expressed the policy of not expanding this number. This would, perhaps, increase enrollment pressures considerably.
2. It is likely that the curricula in Architecture will be extended to six years to follow the current pattern in architectural education. At the present time, approximately one third of the Schools of Architecture in the United States and Canada require six years or more to complete architectural training.
3. The growth of the Department has reached a point where it will likely be desirable from the administration standpoint to establish a separate School of Architecture in the near future. This also would follow a regional and national trend, since all of the other Schools of Architecture in the state of Texas are independent schools or colleges of Architecture.

It should be pointed out that training in Architecture is one which requires a tremendous number of scheduled laboratory hours per week. The use of the facility is therefore very heavy and demanding on the one hand, and yet provides a very efficient utilization on the other.

After extensive study of the program including a number of variable plans, it is recommended that separate facility be designed, making the present

## PROPOSED ARCHITECTURE BUILDING EXPANSION (cont'd)

space available for the expansion of other engineering disciplines. Any additions to the present facility will effectively block natural growth of the physical requirements of other undergraduate and graduate programs and would create a very undesirable planning problem from the standpoint of space utilization at the north end of the campus. Numerous sites were evaluated, but it is felt to be most desirable to have the facilities for the Department of Architecture located adjacent to the engineering facilities even in the event that a separate School of Architecture were to be established. Common interests in research and inter-departmental instructional programs would seem to dictate this desirability. The expansion of both research and graduate facilities will depend upon the utilization of other departments in Engineering who are likewise interested in planning, layout, design, mechanical equipment, structures, etc.

Preliminary studies by the Consulting Architect indicate the entire facility would include some 195,000 square feet, most of which is laboratory (drafting room) space. This figure includes lecture spaces which at the outset could also be used partially for instruction by other departments, as well as for visiting lecturer series, professional short courses and conferences.

Generally, the program devotes approximately 70% of the net space to 34 laboratories and studios, 15% to 7 lecture rooms of various sizes, and the remaining to the 72 faculty offices, administrative suite, and accessory spaces.

Considerations of land coverage and the orderly expansion of other buildings in the area indicate that the heavy concentration of students in lecture rooms and short-duration labs be within the walking range of stairs; but the lighter traffic of offices and long-duration labs could be located higher for access by elevators.

It is possible, with this program as a basis, to complete and file the application for matching funds by September 6, 1966.

Analysis of the net programmed space, and assuming the earliest occupancy to be 1969, indicates a budget of \$3,400,000 would be required for building, fees, and fixed equipment.

The amount of additional funds required for utility extensions, site development and moveable equipment is presently under study.

HOWARD SCHMIDT AND ASSOCIATES  
CONSULTING ARCHITECT



August 18, 1966

PROPOSED HOME ECONOMICS BUILDING EXPANSION  
TEXAS TECHNOLOGICAL COLLEGE

The building expansion for the School of Home Economics is proposed to be located to the south and east of the existing building. This would make more efficient use of the existing site by utilizing the area to the east of the Home Economics Building that is now occupied by temporary buildings as well as a portion of the area between the Home Economics Building and the Bookstore.

A program of net space required by the School of Home Economics has been presented by a committee representing the School based upon a projected enrollment of 3,050 students in 1976. The enrollment in the School of Home Economics in the 1965 fall semester was 943.

The program submitted reflects a conscientious effort by the committee to produce spaces which would have the flexibility to change as teaching methods and personnel vary.

The net programmed space as submitted has been defended satisfactorily by the Department Heads as to the number of class and laboratory cycles compared to what the project enrollment in 1976 indicates.

It is assumed that the School of Home Economics will continue to grow with the College, but the committee realizes that the entire requested space cannot be occupied solely by the School upon the possible completion of the new facilities in the year 1968. Therefore classroom and laboratory spaces would be available to relieve expanding needs of other Schools on campus until the growth of the School of Home Economics warrants the equipping and occupancy of these spaces.

Schematic plans indicate that the entire facility would include 125,925 square feet. Of this figure, 67,273 would be assignable space for classrooms, laboratories and offices. The functions of the new facilities are as described below.

The classroom and laboratories are located in two floors above grade and one floor below grade. The structure housing these facilities will be physically attached to the existing Home Economics Building on the south and on the east. Three large lecture halls housing from 100 to 150 students are planned in this area.

The new office spaces are arranged in a four-story tower which rises above the classroom and laboratory levels, resulting in a total of six floors above grade. The mechanical equipment will be housed in a sub-basement.

It is possible, using this program as a basis, to complete and file the application for matching funds with the proper authorities by September 6, 1966.



## PROPOSED HOME ECONOMICS EXPANSION (cont'd)

Based upon the Consulting Architect's evaluation of the net programmed space compared with current building costs, an estimated budget of \$2,329,611.00 would be required for the School of Home Economics facilities proposed.

Expansion of utilities to the new facilities may be partially financed through funds specifically allocated for this purpose. Additional costs will be for remaining utility expansion, moveable equipment, site improvements and architectural-engineering fees.

HOWARD SCHMIDT AND ASSOCIATES  
CONSULTING ARCHITECT

TEXAS TECHNOLOGICAL COLLEGE  
Lubbock, Texas

MINUTES OF THE CAMPUS PLANNING COMMITTEE  
Meeting No. 310 August 19, 1966

A meeting of the Campus Planning Committee was held at 1:30 p.m. on August 19, 1966, in Room 120, Administration Building.

Members present were Chairman M. L. Pennington and Mr. Nolan E. Barrick.

Present from the College were Mr. John G. Taylor, Miss Evelyn Clewell and Miss Jerry Kirkwood.

Mr. Howard Schmidt, Consulting Architect, was also present.

Mr. Louis Southerland and Mr. Madison Mills represented the architects for the Business Administration Building.

3462. Business Administration Building (CPC No. 98-65)  
(Page, Southerland, Page)

Exterior Design

The architects had revised the drawings including the ceramic material for the lecture hall roof and the penthouse covering on the academic building. The ceramic material of the tile colors existing on the campus was also shown as a coping near the edges of the roofs of the office building tower and the academic building.

The Campus Planning Committee and the architects felt that the changes were functional and not detrimental to the design concept and that the building would be compatible with the existing architecture on the campus.

It was further recommended that the revisions be shown to the Campus and Building Committee of the Board of Directors for their approval.

Jerry Kirkwood  
Coordinator

---

The meeting adjourned at 2:30 p.m.

TEXAS TECHNOLOGICAL COLLEGE  
Lubbock, Texas

MINUTES OF THE CAMPUS PLANNING COMMITTEE

Meeting No. 311

August 19, 1966

A meeting of the Campus and Building Committee of the Board of Directors and the Campus Planning Committee was held at 4 p.m. on August 19, 1966, in the Blue Room, Student Union Building, on the campus.

Members of the Building Committee present were Chairman Harold Hinn and Mr. C. A. Cash. Other members of the Board of Directors in attendance were Chairman J. Edd McLaughlin, Mr. Alvin R. Allison, Mr. Retha Martin and Mr. Roy Furr.

Members of the Campus Planning Committee present were Chairman M. L. Pennington and Mr. Nolan E. Barrick. Dr. Bill Kitchen represented Mr. E. J. Urbanovsky.

Others present from the College were President R. C. Goodwin, President-elect Dr. Grover E. Murray, Dr. William Pearce, Mr. J. Roy Wells, Mr. John G. Taylor, Mr. Robert B. Price, Miss Evelyn Clewell and Miss Jerry Kirkwood.

In addition, Mr. Howard Schmidt, Consulting Architect, was present.

Mr. Louis Southerland and Mr. Madison Mills were present for the presentation of the restudied exterior design of the Business Administration Building.

Mr. George Pierce and Mr. Robert Deshayes represented the architects for the revised Biology Building presentation.

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, 1966, will follow that of the Campus and Building Committee for each item.

3463. Biology Building (CPC No. 99-65) (Pierce and Pierce)

Exterior Design

Mr. Robert Deshayes presented the revised exterior design which was in keeping with the requests made by the Campus and Building Committee and the Campus Planning Committee at Meeting No. 307 on August 6, 1966.

In addition, the architects had added a vertical vent at the top of the exhaust stacks and extended the columns between the windows to the top of the screen at the greenhouse level.

At the conclusion of the above presentation, the architects stated firmly that, in their opinion, the original design concept was the better solution and requested that the Building Committee reconsider the requested changes.

First Floor Plan

The refinements in the first floor plan, including the lecture hall, as previously requested at Meeting 307, August 6, 1966, had been incorporated and were explained.

The Campus and Building Committee recommended that the architects be authorized to proceed with the construction drawings and specifications subject to the approval of the Campus Planning Committee concerning the exterior design and any changes as deemed necessary.

The Building Committee instructed the Campus Planning Committee to be certain that adequate space is provided between the rows of seats in the large lecture room and felt that 36 inches would be in order.

(The Board of Directors approved.)

3464. Business Administration Building (CPC No. 98-65)  
(Page, Southerland, Page)

Exterior Design

Mr. Southerland explained the functions and traffic patterns of the interior spaces of the building which were necessarily reflected in the exterior design. The economy of the structural systems used for the varied interior functions of the spaces was explained.

The elevations of the proposed building, the perspective renderings in color showing views from the southeast and northeast and a black and white perspective rendering showing the view from the northwest were on display.

The drawings incorporated the changes requested by the Campus Planning Committee at Meeting No. 309, August 18, 1966, and reviewed by the Committee at Meeting No. 310, August 19, 1966.

Mr. Alvin R. Allison questioned the feasibility of designing the structural foundation, at this time, in order that additional floors could be gained in the office building tower in the future. Mr. Southerland explained that additional means for vertical transportation would be required in another class of passenger elevators and that duct systems would need to be oversized at this time, plus the over design of the structural system. The estimated cost was \$30,000.

Mr. Allison reminded the Campus Planning Committee to study the feasibility of providing structural systems for additional floors for campus buildings planned in the future.

The Building Committee recommended that the Campus Planning Committee be authorized to take the responsibility of approving the exterior design of the building.

(The Board of Directors approved.)

3465. Central Heating and Cooling Plant (CPC No. 105-66)  
(Zumwalt and Vinther, Inc., Engineers)  
(Pitts, Mebane, Phelps and White, Architects)

Equipment

The Building Committee recommended that the College proceed to purchase the second refrigeration unit from the Carrier Air Conditioning Company under the 30 day option which was offered by the company on May 24, 1966, and extended.

Cost of the two units is \$457,380.

(The Board of Directors approved.)

Site

It was recommended by the Building Committee that the site, as shown on the drawing dated August 10, 1966, and submitted by the architects, be approved.

(The Board of Directors approved.)

Tunnels and Utilities Extensions

The Building Committee recommended that Zumwalt and Vinther, Inc., be authorized, under the terms of the existing contract with the Board of Directors, to begin the Design Phase for the extension from the existing facilities, near the Foreign Languages-Mathematics Building, to the connecting facilities at the Wiggins Complex site.

(The Board of Directors approved.)

A letter to the architects outlining the extremely tight schedule is attached for record purposes. (Attachment No. 667, page 2062)

3466. City of LubbockWater Main

It was recommended by the Building Committee that the final approval of the proposed route of the 30 inch water main be delayed until the definite route, width and traffic pattern of Indiana Avenue is established and approved by the Board of Directors.

It was further recommended that the proposed route of the water main and the route of the power cable by the Southwestern Public Service Company be closely coordinated with the future establishment of Indiana Avenue.

(The Board of Directors approved.)

3467. Classrooms and Offices (Temporary)

The Building Committee recommended that the College investigate the availability of 10 to 12 additional surplus buildings for moving to the campus.

(The Board of Directors approved.)

3468. Consulting ArchitectTitle I Applications

After studying a "Summary of Changes in State Plan for Higher Education Facilities Act of 1963, Title I (As they pertain to Texas Tech)," the Building Committee recommended that the Title I applications for matching funds for Architecture and Allied Arts and Home Economics be filed on or before September 6, 1966, as originally planned.

The Building Committee further recommended that the Biology Building and Chemistry Facilities be refiled on the revised forms on or before September 6, 1966.

(The Board of Directors approved.)

The "Summary of Changes in State Plan for Higher Education Facilities Act of 1963, Title I (As they pertain to Texas Tech)" is attached for record purposes. (Attachment No. 668, page 2063)

The program design prepared by Mr. Howard Schmidt, Consulting Architect, upon which Title I application schematic drawings for Architecture and Allied Arts and Home Economics are based is attached to and made a part of the Minutes. (Attachment Nos. 669 and 670, pages 2064 and 2065)

3469. Funds Available

The revised "Present and Proposed Building Program" is attached for record purposes. (Attachment No. 671, page 2066)

3470. Museum (CPC No. 65-61) (Associated Architects and Engineers of Lubbock)

The Building Committee recommended that the scope of the project be restudied to include the International Center for Arid and Semi-Arid Land Studies and that an area bounded by Fourth Street on the north, Indiana Avenue on the west and the railroad right-of-way on the southeast, covering an estimated 70 acres, be designated as the site.

(The Board of Directors approved.)

3471. Sidewalks (Asphalt and Concrete) (Estimated Cost \$30,991)

The Building Committee recommended that the contract in the amount of \$30,991 be awarded to the low bidder, Bob Hunter Construction Company. The estimated cost is \$30,991, and actual cost will be determined upon completion of the project and based upon unit prices for areas installed.

(The Board of Directors approved.)

The bid tabulation is attached for record purposes.  
(Attachment No. 672, page 2067)

3472. Southwestern Public Service Company

Power Cable

It was recommended by the Building Committee that the final approval of the proposed route of the cable be delayed until the definite route, width and traffic pattern of Indiana Avenue has been established and approved by the Board of Directors.

It was further recommended that the proposed route of the 30 inch water main by the City of Lubbock, the power cable and the established Indiana Avenue all be coordinated.

(The Board of Directors approved.)

3473. Wiggins Complex (CPC No. 97-65)  
(Schmidt and Stiles, Roberts and Messersmith)

Interior Designer

The Board of Directors authorized the Campus and Building Committee to approve the forthcoming recommendation of the Campus Planning Committee.

Jerry Kirkwood  
Coordinator

The meeting adjourned at 6:25 p.m.

Campus Planning Committee  
August 19, 1966  
Attachment No. 667  
Item No. 3465

TEXAS TECHNOLOGICAL COLLEGE  
P. O. Box 4508  
Lubbock, Texas 79409

Office of the Campus Planning  
Committee Coordinator

August 10, 1966

AIR MAIL

Mr. Robert White  
Pitts, Mebane, Phelps and White  
470 Orleans Street  
Beaumont, Texas 77701

Dear Mr. White:

Subject: Central Heating and Cooling Plant  
Texas Technological College

The Campus Planning Committee prefers to review your exact location of the subject project on the afternoon of August 18, 1966, prior to the presentation to the Building Committee of the Board of Directors on August 19, 1966, if at all possible. Your presence will not be necessary; however, the Committee will be pleased for you to attend if you so desire.

The schedule for having services to the Wiggins Complex and the Business Administration Building has been discussed in detail, and the following will bring you up-to-date on the requirements in order to have both in operation within the planned periods.

A six month erection time for the steam and refrigeration equipment has been established. Need for steam from the Central Plant is anticipated around November 15, 1967; therefore, we are forced to have tunnels and utilities extended from our existing system to the Wiggins Complex during the summer of 1967 so that the construction can be completed, systems balanced out, and necessary services provided for the operation of the Complex from occupation time until the services can be provided from the Central Plant.

Our existing system can carry the Complex under normal conditions, but we cannot depend upon it for all of the existing buildings and the Complex under severe weather conditions.

In order to meet the demands of the Wiggins Complex on September 1, 1967, for steam and air conditioning, the following schedule is proposed.

1. Approval of preliminary plans for the First Phase of the Central Heating and Cooling Plant by the Board of Directors in September and authorization to proceed with construction drawings. (There is no regular meeting scheduled; however, it is possible to arrange a meeting.)

Mr. Robert White  
Page 2  
August 10, 1966

2. Tunnels and Utilities Extension approved by the Board on October 18, 1966, and bids taken in November with award of contract approval sought at the December 3, 1966, meeting.
3. We would hope that the construction drawings for the Central Plant will be complete enough for Board review on December 3, 1966, and that bids could be taken in January, 1967. The Board could award the contract or contracts at the January 24 meeting in Austin.

If such a schedule can be maintained, it would be possible to have the necessary footings and foundation available for the boiler and refrigeration equipment near April 15, 1967. Allowing then the six months equipment erection period, the Central Plant system could be in operation for checking around October 15 and a dependable system in operation by the time severe weather can be expected.

It is understood that the possibility of having the equipment fully housed is limited but that temporary means of satisfactory protection can be achieved.

We shall continue to pursue the possibilities of financing the additional phases of construction by various means but will proceed with the First Phase with funds as are available.

Under the above proposed construction schedule, the necessary tunnels and utilities will be available for the Business Administration Building which is scheduled for occupation in September, 1968. Bids for this project will be taken in November, 1966.

Should you have any reservations concerning the proposed schedule, we will be happy to discuss them with you.

Yours truly,

/s/ Jerry Kirkwood

Jerry Kirkwood, A.I.A.  
Campus Planning  
Committee Coordinator

JK:c

cc: Mr. M. L. Pennington  
Mr. John G. Taylor  
Mr. R. B. Price  
Mr. Nolan E. Barrick  
Mr. O. R. Downing  
Dr. Bill Kitchen  
Mr. Howard Schmidt  
Mr. Jack Roberts  
Mr. J. T. Worley



Campus Planning Committee  
August 19, 1966  
Attachment No. 668  
Item No. 3468

TEXAS TECHNOLOGICAL COLLEGE  
Lubbock, Texas

August 15, 1966

SUMMARY OF CHANGES IN STATE PLAN FOR THE HIGHER EDUCATION FACILITIES  
ACT OF 1963, Title I (As they pertain to Texas Tech)

1. Revised the application form in an attempt to make it easier to understand and to prepare.
2. Changed closing dates from July 1 and January 7 to September 6 and January 31. (There will be no January 31 closing date unless Congress should make more funds available. The Coordinating Board staff members advised the schools not to count on any additional funds as they feel Congress will not appropriate more.)
3. Provides a new point system to determine priority ratings.
4. The first priority project to be approved for a grant may receive 33 1/3% of eligible project development costs or a grant of \$1,000,000, whichever is least. (The prior maximum grant was \$1,500,000.)
5. Second, third and other priority projects which receive approval for a grant shall not receive a grant in excess of 10% of the eligible project development costs. (Was 33 1/3% or maximum of \$1,500,000. Attached is a statement issued by the Coordinating Board, Texas College and University System, which explains the Board's reasons for the changes.)
6. There is a provision to allocate any excess funds which may remain after all initial awards have been made based upon the above mentioned limitations. (Few people believe that this provision will ever be needed as there will always be a surplus of applications and need for funds.)
7. The method of including a portion of a central heating plant or other central utility facility has been radically changed for the better. Instead of trying to justify a small portion of the central plant for each project, the request may be added to one application. A calculation based upon the assignable square feet of instructional, library, and instructional related space in all buildings to be served by the central plant, including buildings to be completed in the next five years provides the pro rata part which can be included in the Title I application. (Since the Biology Building is the number one priority for Texas Tech and will, if approved, receive the maximum of \$1,000,000, the central heating and cooling plant will be filed with it.)
8. The new maximum amounts of federal grants under Title I reduces the total amount Texas Tech hoped to get by \$1,315,000.

Campus Planning Committee  
August 19, 1966  
Attachment No. 669  
Item No. 3468

August 18, 1966

PROPOSED ARCHITECTURE BUILDING EXPANSION  
TEXAS TECHNOLOGICAL COLLEGE

The building program for the expansion of facilities for the Department of Architecture and Allied Arts was developed during the 1964-65 scholastic year. The program committee consisted of Robert Lockard, Willard Robinson, James Howze, Dudley Thompson and Nolan Barrick. The program submitted reflects the committee's conscientious consideration of the revision of teaching methods in order that the facility could provide the most efficient and beneficial use. The net programmed spaces have each been explained in detail relative to potential enrollments based on empirical data included with the program. The ultimate building would appear to need to accommodate a total of over 1600 majors by 1972 at the present rate of growth.

The Department of Architecture was the fourth largest department in total enrollment in the United States in the fall of 1966 and has been growing at a slightly more rapid rate than the national figure, due to the increased area being serviced. In 1966 the department had students from 26 states and the District of Columbia included in the enrollment, together with students from six foreign countries. It is assumed that the School will continue to grow in accordance with past experience, although it is entirely possible that the growth will be accelerated by the following situations.

1. The Coordinating Board has designated Texas Tech as one of four state supported Schools of Architecture and expressed the policy of not expanding this number. This would, perhaps, increase enrollment pressures considerably.
2. It is likely that the curricula in Architecture will be extended to six years to follow the current pattern in architectural education. At the present time, approximately one third of the Schools of Architecture in the United States and Canada require six years or more to complete architectural training.
3. The growth of the Department has reached a point where it will likely be desirable from the administration standpoint to establish a separate School of Architecture in the near future. This also would follow a regional and national trend, since all of the other Schools of Architecture in the state of Texas are independent schools or colleges of Architecture.

It should be pointed out that training in Architecture is one which requires a tremendous number of scheduled laboratory hours per week. The use of the facility is therefore very heavy and demanding on the one hand, and yet provides a very efficient utilization on the other.

After extensive study of the program including a number of variable plans, it is recommended that separate facility be designed, making the present space available for the expansion of other engineering disciplines. Any additions to the present facility will effectively block natural growth of the physical requirements of other undergraduate and graduate programs and would create a very undesirable planning problem from the standpoint of space utilization at the north end of the campus. Numerous sites were evaluated, but it is felt to be most desirable to have the facilities for the Department of Architecture located adjacent to the engineering facilities even in the event that a separate School of Architecture were to be established. Common interests in research and inter-departmental instructional programs would seem to dictate this desirability. The expansion of both research and graduate facilities will depend upon the utilization of other departments in Engineering who are likewise interested in planning, layout, design, mechanical equipment, structures, etc.

## PROPOSED ARCHITECTURE BUILDING EXPANSION (cont'd)

Preliminary studies by the Consulting Architect indicate the entire facility would include some 195,000 square feet, most of which is laboratory (drafting room) space. This figure includes lecture spaces which at the outset could also be used partially for instruction by other departments, as well as for visiting lecturer series, professional short courses and conferences.

Generally, the program devotes approximately 70% of the net space to 34 laboratories and studios, 15% to 7 lecture rooms of various sizes, and the remaining to the 72 faculty offices, administrative suite, and accessory spaces.

Considerations of land coverage and the orderly expansion of other buildings in the area indicate that the heavy concentration of students in lecture rooms and short-duration labs be within the walking range of stairs; but the lighter traffic of offices and long-duration labs could be located higher for access by elevators.

It is possible, with this program as a basis, to complete and file the application for matching funds by September 6, 1966.

Analysis of the net programmed space, and assuming the earliest occupancy to be 1969, indicates a budget of \$3,400,000 would be required for building, fees, and fixed equipment.

The amount of additional funds required for utility extensions, site development and moveable equipment is presently under study.

HOWARD SCHMIDT AND ASSOCIATES  
CONSULTING ARCHITECT

Campus Planning Committee  
August 19, 1966  
Attachment No. 670  
Item No. 3468

August 18, 1966

PROPOSED HOME ECONOMICS BUILDING EXPANSION  
TEXAS TECHNOLOGICAL COLLEGE

The building expansion for the School of Home Economics is proposed to be located to the south and east of the existing building. This would make more efficient use of the existing site by utilizing the area to the east of the Home Economics Building that is now occupied by temporary buildings as well as a portion of the area between the Home Economics Building and the Bookstore.

A program of net space required by the School of Home Economics has been presented by a committee representing the School based upon a projected enrollment of 3,050 students in 1976. The enrollment in the School of Home Economics in the 1965 fall semester was 943.

The program submitted reflects a conscientious effort by the committee to produce spaces which would have the flexibility to change as teaching methods and personnel vary.

The net programmed space as submitted has been defended satisfactorily by the Department Heads as to the number of class and laboratory cycles compared to what the project enrollment in 1976 indicates.

It is assumed that the School of Home Economics will continue to grow with the College, but the committee realizes that the entire requested space cannot be occupied solely by the School upon the possible completion of the new facilities in the year 1968. Therefore, classroom and laboratory spaces would be available to relieve expanding needs of other Schools on campus until the growth of the School of Home Economics warrants the equipping and occupancy of these spaces.

Schematic plans indicate that the entire facility would include 125,925 square feet. Of this figure, 67,273 would be assignable space for classrooms, laboratories and offices. The functions of the new facilities are as described below.

The classroom and laboratories are located in two floors above grade and one floor below grade. The structure housing these facilities will be physically attached to the existing Home Economics Building on the south and on the east. Three large lecture halls housing from 100 to 150 students are planned in this area.

The new office spaces are arranged in a four-story tower which rises above the classroom and laboratory levels, resulting in a total of six floors above grade. The mechanical equipment will be housed in a sub-basement.

It is possible, using this program as a basis, to complete and file the application for matching funds with the proper authorities by September 6, 1966.

Based upon the Consulting Architect's evaluation of the net programmed space compared with current building costs, an estimated budget of \$2,329,611 would be required for the School of Home Economics facilities proposed.

Expansion of utilities to the new facilities may be partially financed through funds specifically allocated for this purpose. Additional costs will be for remaining utility expansion, movable equipment, site improvements and architectural-engineering fees.

HOWARD SCHMIDT AND ASSOCIATES  
CONSULTING ARCHITECT

2066

Campus Planning Committee  
August 19, 1966  
Attachment No. 671  
Item No. 3469

TEXAS TECHNOLOGICAL COLLEGE  
Lubbock, Texas

Present and Proposed Building Program  
(Does Not Include Auxiliary Enterprise Projects)

Source of Funds Available

Last Notes on 5¢ Ad Valorem Tax	\$ 1,500,000
Interest earned through June, 1966	123,000
Bond Sales through January, 1967--10¢ Ad Valorem Tax	7,780,000
Bond Sale July, 1967--10¢ Ad Valorem Tax	1,340,000
Bond Sale July, 1968--10¢ Ad Valorem Tax	1,610,000

Estimated interest to be earned to August, 1968	<u>250,000</u>
---	----------------

Estimated Ad Valorem Tax Funds Available	<u>\$12,603,000</u>
--	---------------------

	Estimated Earliest Completion Date	Estimated Total Cost	Status at July 31, 1966		Source of Funds		Remarks
			Paid	Unpaid	Constitutional Tax	Facilities Act	
<u>Building Projects</u>							
Horse Facilities	April, 1966	\$ 59,000	\$ 41,268	\$ 17,732	\$ 59,000	\$	
Engineering Survey	May, 1966	10,000	10,000	-0-	10,000		
Temporary Buildings	Sept., 1966	163,500	14,419	149,081	163,500		
Sidewalks for Temporary Buildings	Sept., 1966	16,300		16,300	16,300		
Library Completion	Oct., 1966	234,278	141,115	93,163	156,185	78,093	Shelving and other movable furniture due by October
Foreign Languages--Mathematics Building	April, 1967	1,350,000	302,954	1,047,046	900,000	450,000	
Reworking Old Tunnel to Foreign Languages- Mathematics Building	Sept., 1966	41,397	2,991	38,406	41,397		
Relocation of Museum	Aug., 1967	716,800	12,994	703,806	500,000		Original Concept-- Balance of Funds \$216,800 to come from gifts and West Texas Museum Association Funds
Central Heating Plant Phase I	Aug., 1967	1,320,000		1,320,000	1,152,290	167,710	The Facilities Act funds are included in the Biology Building and Chem- istry Building Applications
Utility Tunnels	Aug., 1967	753,950		753,950	753,950		

Present and Proposed Building Program (Continued)  
(Does Not Include Auxiliary Enterprise Projects)

	Estimated Earliest Completion Date	Estimated Total Cost	Status at July 31, 1966		Source of Funds		Remarks
			<u>Paid</u>	<u>Unpaid</u>	<u>Constitutional Tax</u>	<u>Facilities Act</u>	
<u>Building Projects</u>							
Business Administration Building	April, 1968	\$ 4,565,066	\$	\$ 4,565,066	\$ 3,065,066	\$ 1,500,000	Grant approved
Biology Building	June, 1968	4,669,615		4,669,615	3,113,077	1,556,538	Title II Application pending-- Title I Application to be re- considered Sept. 6, 1966, by Coordinating Board
Chemistry Building Addition	June, 1968	4,164,605	41,826	4,122,779	3,116,006(a)	1,048,599(a)	Title II Application pending-- Title I Application to be filed by Sept. 6, 1966
Home Economics Addition	July, 1968	2,748,578		2,748,578	2,473,721	274,857	Title I Application to be filed by Sept. 6, 1966. Any Title II Application on this project probably won't re- ceive consideration until late 1967 as Biology and Chemistry applications are still pending and Law School application is to be filed by Oct. 1, 1966
Law School Building	Aug., 1968	1,031,900		1,031,900	687,934	343,966	Title II Application to be filed by Oct. 1, 1966
Architecture Building Addition	Sept., 1968	4,177,500		4,177,500	3,759,750	417,750	Title I Application to be filed by Sept. 6, 1966
Total Above		\$26,022,489	\$ 567,567	\$25,454,922	\$19,968,176	\$ 5,837,513	
Less Duplicated Amount on Power Plant		503,130		503,130	335,420	167,710	
Net Total .....		<u>\$25,519,359</u>	<u>\$ 567,567</u>	<u>\$24,951,792</u>	<u>\$19,632,756</u>	<u>\$ 5,669,803</u>	Plus \$216,800 from donation on Museum

(a) Change in State Plan allowing maximum of \$1,000,000 on first priority and 10% of all others below number one priority.

TEXAS TECHNOLOGICAL COLLEGE  
 BID TABULATION

5 interested persons were present

2 p.m.  
 July 29, 1966

CONSTRUCTION OF CONCRETE AND ASPHALT WALKS

CONTRACTOR	BID BOND	BASE BID	ITEM #1		ITEM #2		TOTAL BID
			UNIT PRICE	TOTAL	UNIT PRICE	TOTAL	
Kerr Construction Company	NO BID	A					
		B					
		B ALTERNATE					
Frank Hodges Cement Contractor	X	A	37¢/sq. ft.	\$12,210.00	21¢/sq. ft.	\$273.00	\$12,483.00
		B	40¢/sq. ft.	22,000.00	21¢/sq. ft.	378.00	22,378.00
		B ALTERNATE	-----	(-)150.00	-----	-----	21,850.00
Bill Hood Dirt and Paving Contractor	NO BID	A					
		B					
		B ALTERNATE					
Bob R. Hunter Construction Company	X	A	34½¢/sq. ft.	\$11,385.00	11½¢/sq. ft.	\$149.50	\$11,534.00
		B	35¢/sq. ft.	19,250.00	11½¢/sq. ft.	207.00	19,457.00
		B ALTERNATE	(+)½¢/sq. ft.	(+)275.00	-----	-----	19,732.00
Red Roberson Dirt and Paving Contractor	NO BID	A					
		B					
		B ALTERNATE					



TEXAS TECHNOLOGICAL COLLEGE  
Lubbock, Texas

MINUTES OF THE CAMPUS PLANNING COMMITTEE

Meeting No. 312      September 6, 1966

A meeting of the Campus Planning Committee was held at 1:30 p.m. on September 6, 1966, in Room 120, Administration Building.

Members present were Chairman M. L. Pennington, Mr. E. J. Urbanovsky and Mr. Nolan E. Barrick.

Others present from the College were Mr. John G. Taylor, Mr. O. R. Downing, Miss Evelyn Clewell, Dr. Bill Kitchen and Miss Jerry Kirkwood.

Mr. Howard Schmidt, Consulting Architect, was also present.

Mr. Louis Southerland, Mr. Madison Mills and Mr. Duke Gowin of Page, Southerland, Page, Architects, were present for the review of the Business Administration Building.

3474. Business Administration Building (CPC No. 98-65)  
(Page, Southerland, Page)

Mr. Southerland explained in detail the various exterior materials proposed for the building and answered questions. Many different arrangements were discussed and studied.

Exterior materials to be included are brick within the existing standard range, architectural concrete, bronze tinted glass, durodonic aluminum window trim, granite as per the sample submitted, interlocking flat roofing tile within the color range of the existing tile roofs, and terra-cotta trim near the edges of the roofs at the office tower and the academic building. Copper flashing and trim will be used in conjunction with the tile roofs where it is required for proper roof construction.

The building is located in an area which has a drainage problem, and the architects had proposed that the Building be raised approximately five feet above finish grade and surrounded by a berm. Mr. Urbanovsky and Dr. Kitchen felt that the berm would create a maintenance problem and suggested that the raised area assume a gradual slope of approximately 30% up to the building. Thereby, the recessed areas near the building and the overhanging platform upon which the building rests were eliminated and a terrace effect was created.

The architects were requested to include a ramp for wheel-chair students into the building on the south at the entrance near the elevators in addition to those shown on the north side of the building.

The plot plan was reviewed and it was recommended that lighting of the grounds and a sprinkler system not be included in the building contract. Sidewalks to be in the contract will terminate at the end of the terrace on the south and east but will be carried to the street curbs on the north and west.

The screened service court and the service drive off 15th Street were approved.

Interior materials included in the building as outlined by Mr. Mills are as follows:

Interior partitions will be double gypsum board on metal studs ~~running~~ beyond the acoustical grid system ceiling to the structure. A laminated plastic will serve as a wainscot



3474. Business Administration Building (CPC No. 98-65)  
(Page, Southerland, Page) (continued)

material in the corridors. Brick pavers will be used in the vestibule areas and vinyl asbestos flooring in the corridors, classrooms and offices. Carpet is anticipated, at this time, in the Dean's office and in the conference room.

Considering that the building includes several large classrooms, a reading room, and a lecture hall, Mr. Southerland stated that his firm has retained an acoustical consultant.

The architects plan to have the final plans and specifications complete for Board review at their meeting in October.

The use of the interior designer services is being studied and a recommendation will be made later.

After very careful study and consideration, and in keeping with the instructions of the Board of Directors, the Campus Planning Committee approved the exterior design.

(Mr. Southerland, Mr. Mills and Mr. Gowin left the meeting.)

3475. Biology Building (CPC No. 99-65)  
(Pierce & Pierce)

The two schemes presented by the architects to the Campus and Building Committee on August 19, 1966, were reviewed.

It was recommended by the Campus Planning Committee that the added vertical recessed treatment at the tops of the stacks be eliminated.

It is preferred that the stacks and the end stair and elevator towers be capped but was suggested that further study be given to the type of material to be used and to the construction detail in order that no leakage will occur.

The Campus Planning Committee further recommended that the flattened arches at the first floor level be retained.

The Committee agreed that the screening at the greenhouse level would be more suitable constructed of a masonry material rather than metal. The architects will be requested to study the material usage and lateral support in order to eliminate the extended vertical column which occurs between the stacks. They will also be requested to consult with Lord and Burnham concerning the greenhouse locations, layouts and the effective height of the screening around the greenhouses.

The Chairman has appointed a subcommittee composed of Mr. Barrick, Mr. Urbanovsky, Mr. Schmidt and Miss Kirkwood to work with the architects toward achieving the above recommendations.

3476. Central Heating and Cooling Plant (CPC No. 105-66)  
(Zumwalt and Vinther, Inc., Engineers)  
(Pitts, Mebane, Phelps and White, Architects)

Tunnel Routing

The proposed route was reviewed and its acceptance recommended.

In order to have services available for the Wiggins Complex, Phase I, in October, 1967, Zumwalt and Vinther plan to seek the necessary approvals and issue the plans and specifications for bidding on September 19, 1966. The tentative bid date is October 11, 1966.

It was recommended that the engineers include in the specifications a defined limit of vehicular and equipment travel around the tunnel construction areas.

Mr. O. R. Downing will be the coordinator for the project.

3477. Elevators (Clement Hall)

The elevator which was out of service has been repaired and is in operation.

Esco Elevators, Inc., engaged an independent firm to conduct tests for the presence of electrolysis. A written report of the findings is not yet available.

The Campus Planning Committee recommended that the College retain the services of a testing firm for checking the presence of electrolysis in areas where elevators exist in order to prevent damage to cylinders on other hydraulic elevators, should the conditions producing electrolysis prevail.

Mr. O. R. Downing was asked to make the arrangements.

Jerry Kirkwood  
Coordinator

---

The meeting adjourned at 5:35 p.m.

(To Mr. M. L. Pennington and Miss Jerry Kirkwood for information only)

TEXAS TECHNOLOGICAL COLLEGE  
Lubbock, Texas

ADDITIONAL NOTES FROM CAMPUS PLANNING COMMITTEE MEETING NO. 312  
September 6, 1966

3474. Business Administration Building (CPC No. 98-65)  
(Page, Southerland, Page)

1. The architects were advised to provide a cast plaque inside the building in keeping with the Board rules. The names of Board members and the handling of the President's is not available. The architects will be advised as soon as possible.
2. The existing letters on the Business Administration Building will be removed by Building Maintenance and placed on the west side of the office tower on the new building. Mr. Downing and Mr. Urbanovsky will handle.
3. Mail room will have individual mail boxes with doors and no locks.
4. Mr. Downing was consulted about the hardware preferences and the architects were informed accordingly.
5. The construction utilities will be metered and the contractor required to reimburse the College for the use of services.
6. The HUD offices are willing to have a "walk-through" review around the first of October and also will forward the wage scale that will suit our needs within the time proposed.
7. Schedule:

Board approval--Meeting scheduled October 18, 1966  
Bids received--Latter part of November, 1966  
Contract award--December 3, 1966

3475. Biology Building (CPC No. 99-65)

1. Jerry Kirkwood will prepare letter containing recommendations concerning the exterior design and forward to the architects.
2. The architects' request for payment for schematic and preliminary phases was approved.

3476. Central Heating and Cooling Plant (CPC No. 105-66)

1. Jerry Kirkwood will acknowledge Mr. Worley's letter on power generating equipment in keeping with Board action.
2. The architects' request for payment for the schematic design phase was approved.

Other Items

Chemistry Building (CPC No. 87-64)

1. Architects' request for payment for schematic design phase, Scheme C, was approved.
2. It was recommended that the Campus Planning Committee review the schematic plans with Dr. Dennis before Mr. White is due here on September 22 or 23, 1966.

The Chairman would get clarification from Dr. Murray concerning Campus Planning Committee obligation.

Other Items (continued)

Museum (CPC No. 65-61)

1. Nothing to report.

Chairman Pennington would talk with Dr. Murray about establishing a policy concerning interior design.

TEXAS TECHNOLOGICAL COLLEGE  
Lubbock, Texas

MINUTES OF THE CAMPUS PLANNING COMMITTEE

Meeting No. 313      September 7, 1966

A meeting of the Campus Planning Committee was held at 3 p.m. on September 7, 1966, in the Plot Plan Room, Physical Plant Building, on the campus.

Members present were Chairman M. L. Pennington, Mr. Nolan E. Barrick and Mr. E. J. Urbanovsky.

Present from the College were Mr. John G. Taylor, Dr. Gerald Thomas, Mr. O. R. Downing and Miss Jerry Kirkwood.

Mr. Howard Schmidt, Consulting Architect, was present.

Representing the City of Lubbock was Mr. S. W. Wahl and Mr. Robert Burr. Mr. George Bunton and Mr. Fray Smith represented the Southwestern Public Service Company. (Mr. Bill Arrant, Pioneer Natural Gas Company, was not present for the meeting, but the proposed route of the line has been distributed to those concerned.)

The purpose of the meeting was to establish the requirements and routing of utility lines to be coordinated with the future of Indiana Avenue as instructed by the Board of Directors at the last meeting.

3478. Utility Service Routing and Indiana Avenue (CPC No. 106-66)

The Campus Planning Committee recommended that there be no grade intersection at Indiana Avenue and the Brownfield Freeway and no overpass. It was further recommended that the Indiana Avenue pattern require a minimum amount of college land and the present underpass not be disturbed, with provisions being made at this time for the possible future widening of the underpass.

The Southwestern Public Service Company desires to begin work as soon as the route is approved. The City of Lubbock plans to begin construction in March of 1967, and the anticipated completion date is June 1, 1967, in order to provide the needed service for the Wiggins Complex.

With the studies which have been made, the City of Lubbock can commit Indiana Avenue to paper, but actual construction is several years away.

Dean Thomas requested that he be notified as soon as possible of the approved routes so that he will be able to make the necessary arrangements for the research plots in the area.

It was recommended that the City of Lubbock establish the east curb line and the width of Indiana Avenue and that a twenty foot easement east of the avenue segment south of the freeway be designated for both the power cable and the water line. It was further recommended that the power cable be located west of the north segment of Indiana Avenue and turn to the west side of Indiana after crossing the freeway.

Mr. Wahl, Mr. Burr, Mr. Bunton and Mr. Smith were asked to work with Mr. Urbanovsky, Mr. Barrick, Dr. Thomas and Miss Kirkwood as they prepare the routes.

The proposed lines will be required to serve Phase I of the Wiggins Complex and Phase I of the Central Heating and Cooling Plant.

Jerry Kirkwood  
Coordinator

The meeting adjourned at 4:20 p.m.

TEXAS TECHNOLOGICAL COLLEGE  
Lubbock, Texas

MINUTES OF THE CAMPUS PLANNING COMMITTEE

Meeting No. 314      September 22, 1966

A meeting of the Campus Planning Committee was held at 3 p.m. on September 22, 1966, in Room 120 of the Administration Building.

Members present were Chairman M. L. Pennington, Mr. E. J. Urbanovsky and Mr. Nolan E. Barrick.

Other College staff members present were Mr. John G. Taylor, Mr. O. R. Downing, Miss Evelyn Clewell and Miss Jerry Kirkwood.

Mr. Howard Schmidt, Consulting Architect, was present.

Dr. William M. Pearce was present for the presentation of the schematic plans of the Law School and the discussion of matching funds.

Dean Richard B. Amandes, Dean of the Law School, and Mr. U. V. Jones, Librarian for the Law School, were in attendance during the presentation of the Law School schematic plans.

3479. Correction to the Minutes

The correction to the Minutes of Meeting No. 313, Item 3478, fifth paragraph was approved as follows:

"It was further recommended that the power cable be located west of the north segment of Indiana Avenue and turn to the east side of Indiana after crossing the freeway."

3480. Approval of Minutes

Minutes of Meeting Nos. 307, 308, 309, 310 and 311 were approved by consensus.

3481. President's Approval of Minutes

President Goodwin approved the Minutes of Meeting Nos. 307 on August 18, 1966; and 308, 309, 310 and 311 on August 29, 1966.

3482. Agricultural Facilities

Cost of Replacing Productive Land

Dean Thomas has requested that the cost of relocation of facilities due to campus expansion be considered as cost charged to the building program.

A copy of Dean Thomas' request and a tabulation of the estimated cost of relocating the farm area bordered by Flint Avenue, 19th Street and Hartford Avenue including two farm residences and sheep facilities is attached to and made a part of the Minutes. (Attachment No. 673, page 2077)

Goats and Sheep Facilities

Mr. Howard Schmidt has met with Dean Thomas and Dr. Dale W. Zinn, and the existing program is being restudied, and an estimate of cost is being prepared.

Poultry Facilities

Installation of the septic tank will begin as soon as maintenance personnel are available.

3482. Agricultural Facilities (continued)Rodeo Association

The proposed fenced area to include 5 acres has been defined. The Campus Planning Committee recommended that the plan be reviewed by Dean Thomas, Dr. Dale W. Zinn and Mr. Frank Hudson. If all are in agreement, the work may proceed.

Swine Facilities

Proposed farrowing facilities at the farm shops near the TV station were requested by the Animal Husbandry Department.

The Campus Planning Committee has recommended that the necessary facilities be provided within the area set aside for swine in the farm area.

Mr. Schmidt will investigate the proposed facility needs.

3483. Central Heating and Cooling Plant (CPC No. 105-66)

(Zumwalt & Vinther, Inc., Engineers)

(Pitts, Mebane, Phelps & White, Architects)

Refrigeration Equipment

The original quotation for two units in the amount of \$457,380 has been offered by the contractor and authorized by the Board of Directors.

The contract has been amended along with the bonds. The documents have been forwarded to the contractor.

Both units are being manufactured, and no delay is expected due to execution of documents.

3484. Chemistry Building Addition (CPC No. 87-64)

Title I Application was filed on September 1, 1966.

3485. Classrooms and Offices (Temporary)

All of the buildings located on campus this summer are available for classes.

The Campus Planning Committee unanimously commended Mr. O. R. Downing and his staff for a tremendous job well done in the preparation of the buildings for moving and the rehabilitation of each, which has been accomplished within a period of 5 months.

Chairman Pennington reported that officials at Dallas and Lubbock, Texas, have been contacted in an effort to locate 10 to 12 additional surplus buildings as approved by the Board of Directors on August 19, 1966.

3486. Elevators (Clement Hall)

The report of tests authorized by Esco Elevators, Inc., is not yet available.

A report of tests conducted by the Pioneer Natural Gas Company is attached for information. (Attachment No. 674, page 2078)

Additional tests will be made in areas around the remaining hydraulic elevators on campus.

If conditions producing electrolysis exist, Mr. Downing requested that steps be taken to reduce the conditions.

3487. Entry Stations

(Estimated Cost \$1,200 to \$1,500 each including Electrical Service)

The Committee reviewed the refined design and the construction drawings.

It was recommended that Mr. Schmidt proceed with the drawings.

Mr. Downing is the coordinator for the project.

3488. Law School

Dr. Pearce, Dean Amandes and Mr. Jones were present for the review of schematic plans to be included in the Title II Application scheduled for filing on or before October 1, 1966.

Slides of Schools of Law at the University of Utah, University of Illinois and the University of Denver were shown by Mr. Schmidt in order to orient the group.

The schematic plans containing a basement, first and second floors were presented. The plan as shown will house the 585 student program, 30 faculty members and the Dean's administrative facilities. The library is planned for 188,000 volumes with 140,000 volumes anticipated by 1975.

Flexibility has been planned into the faculty office and administrative areas as well as the basement in order that the building can be utilized by class instruction other than law until the School of Law has grown into the use of the entire building. Dean Amandes feels this arrangement superior to that of future interruption of processes by remodeling and additions to the building.

The site recommended by the Campus Planning Committee is within the northwest corner of 15th Street and Flint Avenue. The site will offer parking for faculty and visitors and the qualities of remoteness and proximity desired by a School of Law.

It was felt that should Flint Avenue be a controlled traffic campus access in the future, the provided parking at the building for visiting lawyers would be necessary in order to implement the atmosphere required of a School of Law.

The site chosen is within an area where utilities will be readily available as coordinated with the present building program.

The schematic plans presented contain 120,000 gross square feet, and the estimated cost is \$18.00 per square foot for a total of \$2,160,000.00.

The Campus Planning Committee recommended that the Application be filed based upon the program and schematic plans presented. Dr. Pearce and Dean Amandes concurred.

Mr. Schmidt was requested to provide the plans to Mr. Urbanovsky, Mr. Barrick and Miss Clewell for additional review.

A tabulation of square footage is attached for information.  
(Attachment No. 675, page 2079)

3489. Library (South Basement and Third Floor) (CPC No. 101-65)  
(Pitts, Mebane, Phelps & White, Architects)

The "punch list" has been worked and the job is acceptable with the exception of the light fixtures.

Mr. Barrick reported that the louvers on the fixtures have been reworked and tested and found to still vibrate against the housing.

The manufacturer will submit another solution for approval.



3490. Matching Funds

In keeping with Board approval, applications for matching funds under Title I of the Higher Education Facilities Act of 1963 were filed prior to the closing date of September 6, 1966, for the Biology, Chemistry, Home Economics and Architecture and Allied Arts projects.

The Coordinating Board, Texas Colleges and University System is the state agency designated to handle all requests for matching funds under Title I. The priority list for awards is prepared by the application of a predetermined point system.

The awards were announced at the meeting of the Coordinating Board on September 19, 1966 and the results for Texas Technological College were as follows.

<u>Number on the Priority List</u>	<u>Project</u>	<u>Points</u>	<u>Amount of Grant</u>
22	Architecture & Allied Arts	89	\$1,000,000.00
31	Biology	81	324,207.00
32	Home Economics	81	317,488.00
38	Chemistry	70	- 0 -

In case of multiple requests from one institution, the project with the most points is eligible to receive one-third of the estimated cost not to exceed \$1,000,000. Other projects are eligible for only 10 percent of the estimated cost.

The federal government has yet to appropriate the funds.

3491. Trash Receptacles for Pedestrian Use

Mr. Urbanovsky and the Department of Grounds Maintenance cooperated with Sigma Alpha Epsilon, student organization on campus, and provided receptacles during registration.

Designs of types of receptacles were shown to the Committee.

Mr. Urbanovsky and his staff are studying various designs, locations, and estimated costs for permanent receptacles.

3492. Utility Service Routing with Indiana Avenue

The Pioneer Natural Gas Company has furnished a drawing showing the proposed route of their 20 inch line.

The City of Lubbock and Southwestern Public Service Company have examined the proposed route and find there is no conflict. The crossing elevations have been worked out between the city and the gas company. Southwestern Public Service will establish the elevations immediately prior to the actual installation of the cable.

Dean Thomas has confirmed the routes recommended at the Campus Planning Committee Meeting No. 313. (See Correction to Minutes Meeting No. 313, this meeting.)

Dean Thomas' letter is attached to and made a part of the Minutes. (Attachment No. 676, page 2080)

The routes recorded in the Minutes of Meeting No. 313 were recommended by the Campus Planning Committee subject to an on-site evaluation by all concerned.

3493. Wiggins Complex (CPC No. 97-65)  
(Schmidt & Stiles, Roberts & Messersmith, Architects)

General Construction

H. A. Lott, Inc. was granted permission by the Campus Planning Committee to continue to use the Flint Avenue Access for concrete trucks and trucks delivering materials from the Tech railroad spur. The exit for this traffic will be provided at 19th Street. Work has begun on the approach for slow traffic to and from 19th Street and the site.

Tunnels and Utilities Extension

The engineers plan to time the receipt of bids with the October 18, 1966, Board meeting.

It is planned that construction will start east of Flint Avenue and move east by the Plant Sciences Building, turn south and meet the tunnel to the Foreign Languages-Mathematics Building. Phases of construction west of Flint Avenue will begin after January 1, 1967.

Construction and backfill by the Business Administration Building is expected to be complete by the time the building contractor moves on the site.

The estimated cost is \$1,282,174.00.

3494. Other Business

1. Business Administration Building (CPC No. 98-65)  
(Page, Southerland, Page)

The Campus Planning Committee recommended that bids for the project be received on Tuesday, November 29, 1966.

The final plans and specifications will be presented to the Board of Directors for approval at the October meeting.

The Board of Directors will be requested to consider the award of the contract at the December 3, 1966, meeting.

Jerry Kirkwood  
 Coordinator

The meeting adjourned at 6:30 p.m.

Campus Planning Committee  
September 22, 1966  
Attachment No. 673  
Item No. 3482

TEXAS TECHNOLOGICAL COLLEGE  
School of Agriculture  
Lubbock, Texas

Office of the Dean

August 22, 1966

Mr. M. L. Pennington, Chairman  
Campus Planning Committee  
Campus

Dear Mr. Pennington:

I have asked Dale Zinn and Dr. A. W. Young to prepare for us some estimates of the cost of replacing land removed from agricultural production and research by the encroachment of campus dormitories and academic facilities. The letter attached, prepared by Mr. Zinn, presents some of these considerations.

It is difficult to estimate the total cost of replacing productive land. If we break out new land, the costs of root plowing, leveling, and installing an irrigation system could exceed \$200 per acre. During the past several years we have lost a sizable acreage from the farm and livestock operations. It seems to me that the cost of relocation should be a routine cost of the building program and that we cannot expect departmental operations to cover the development of new land.

It is the intent of the School of Agriculture to cooperate fully in every phase of development as our institution matures. Please keep us informed of anticipated actions that affect our farm operations so that we can adjust accordingly.

Sincerely yours,

/s/ Gerald W. Thomas

Gerald W. Thomas  
Dean of Agriculture

GWT:cr

C-O-P-Y  
 TEXAS TECHNOLOGICAL COLLEGE  
 School of Agriculture  
 Lubbock, Texas

Department of Animal Husbandry

August 8, 1966

Dr. Gerald Thomas  
 Dean of Agriculture  
 Campus

Dear Dr. Thomas:

The expansion of academic facilities to the animal husbandry farm area bordered by Flint Avenue, 19th, and Hartford Avenue has removed approximately 40 acres of our most productive land from departmental use. In addition, we will lose two residences for farm personnel and the sheep facilities. The loss of this land is most critical to our overall departmental teaching and research program. This area had the most desirable and adequate irrigation system of the entire farm. Water from four irrigation wells is tied into a 7000 foot underground concrete irrigation pipe system to supply this area. To maintain and improve the departmental program, appropriate action must be taken to insure that land of equal crop producing capacity is prepared for farming north of the freeway.

As you know, the water system north of the freeway is inadequate for our irrigation needs at the present time. We have lost considerable quantities of water during the winter months from the sewage affluent because of a lack of storage capacity. Also, the water available from sewage affluent can be used only on a small area of the farm land. I would like to recommend that the following course of action be considered by the campus planning committee as indirect cost of replacement of land area now being utilized for the construction of the new dormitories.

1. Tap existing underground irrigation line south of freeway at freeway underpass.

Install booster pump and extend underground irrigation line north at underpass to field 4, a distance of approximately 3000 feet.

Estimated total cost of 14 inch concrete underground irrigation pipe, booster pump, and risers, \$ 5,200.00

2. Construct a second storage tank for sewage affluent.

Install 14 inch underground irrigation pipe from storage tank south across 4th street. From junction south of 4th street run underground pipe east to the western edge of field 4. From junction south of 4th street run irrigation pipe south to field west of proposed sheep facility, then east to proposed sheep and swine pasture. Estimated cost of storage tank construction, 6400 feet of 14 inch concrete underground irrigation pipe with risers.

10,000.00

3. Leveling of approximately 80 acres of land south and west of the proposed sheep and swine facilities. Estimated cost

1,600.00

Total estimated cost of entire proposed project

\$16,800.00

Some additional expenses will be incurred by the animal husbandry department in bringing the fertility of this area up to the maximum production level, and in fencing and preparing the area for use.

In addition to the land area involved, action should be considered to replace the two farm dwelling structures and the sheep facility at the earliest possible date.

I appreciate being kept informed of campus expansion plans as they affect our departmental operations.

Sincerely yours,

Dale W. Zinn,  
Acting Head

DWZ:ip

Campus Planning Committee  
September 22, 1966  
Attachment No. 674  
Item No. 3486

## MEMORANDUM

From  
Building Maintenance  
and Utilities

Texas Technological College  
Lubbock, Texas

TO: Mr. O. R. Downing DATE: September 21, 1966

SUBJECT: Electrolysis Test.

An electrolysis test was conducted on the soil in the patio area of Hulen Hall by George Kirchoff and James Ray of Pioneer Natural Gas Company on this date. In an area of approximately 400 square feet and a depth of 20 feet, the reading was 960 ohms per CM<sup>3</sup>. This is the average reading to this depth. Any resistance below 1,000 ohms is considered corrosive. The average reading of an area of approximately 25 square feet to a depth of 5 feet was about 1,200 ohms. This would indicate more corrosiveness at greater depths. The area tested is about 75 feet from the elevator shaft in Hulen Hall.

We were unable to conduct a test in the elevator pit due to the fact that the existing hole in the floor is too close to the tubing and either filled with tightly packed sand, caliche or crushed concrete. Another hole will be punched through the floor to reach undisturbed earth and a test can then be conducted.

/s/ James R. Russell

J. R. Russell,  
Assistant Director

JRR/lv

Campus Planning Committee  
 September 22, 1966  
 Attachment No. 675  
 Item No. 3488

Law School Building  
 Texas Technological College  
 Prepared by Howard Schmidt and Associates

Square Footage

1. Classrooms and Seminar Rooms

1 - 30 student classroom	946	
2 - 50 student classroom	2,450	
2 - 80 student classroom	3,180	
1 - 100 student classroom	1,891	
1 - 150 student classroom	2,255	
1 - 30 student classroom	<u>809</u>	
		11,531

2. Laboratories

None programmed

3. Special Libraries or Reading Rooms

1 - Faculty Library	2,486	
1 - General Reception	737	
3 - General Stacks	29,006	
1 - Informal Reading	660	
2 - Blind Reading	232	
1 - Student Duplicating	237	
1 - Microfilm	198	
1 - Reserve Books	1,464	
1 - Duplicate Books	957	
1 - Rare Books	258	
1 - Work Room	1,650	
4 - Librarians	918	
1 - Secretarial	465	
1 - Receiving	<u>272</u>	
		39,540

4. Other Teaching and Research Facilities

2 - Research Offices	570	
8 - Conference Rooms	1,008	
1 - Moot Court Room	2,200	
1 - Office	315	
1 - Attorney's Room	<u>300</u>	
		4,393

5. Supporting Rooms and Shops

2 - Locker Rooms	3,088	
1 - Multipurpose Room	<u>4,970</u>	
		8,058

6. Faculty Offices

32 - Singles	5,504	
2 - Doubles	570	
1 - Conference	890	
1 - Secretarial	<u>1,710</u>	
		8,674

## Law School Building (Cont'd)

	<u>Square Footage</u>	
7. Graduate Student Offices or Cubicles		
1 - Typing	1,451	
1 - Law Forum	300	
1 - Moot Court Board	439	
1 - Office	114	
1 - Law Journal	613	
4 - Offices	516	
180 - Carrels	<u>5,400</u>	
		8,833
8. Administrative Offices and Areas		
1 - Dean's Office	320	
1 - Associate's Office	240	
1 - Assistant's Office	240	
1 - Staff Conference	430	
1 - Office Service	989	
1 - Administrative Assistants	625	
1 - Reception	732	
2 - Placement	<u>240</u>	
		3,816
9. Total Assignable Space . . . . .		84,845
10. Total Gross Square Footage . . . . .		117,963
Assignable Area by Floors:		
Basement	25,287	
1st Floor	39,958	
2nd Floor	19,600	
Total Assignable Area		84,845
Total Gross Area		117,963
Ratio Assignable/Gross		72%



Campus Planning Committee  
September 22, 1966  
Attachment No. 676  
Item No. 3492

TEXAS TECHNOLOGICAL COLLEGE  
School of Agriculture  
Lubbock, Texas

September 16, 1966

Office of the Dean

Miss Jerry Kirkwood, Coordinator  
Campus Planning Committee

Dear Jerry:

I have discussed the routing for the new water and utilities line with members of our faculty and representatives of Southwestern Public Service.

Our recommendation is that the route from Fourth Street to the Brownfield Highway parallel Indiana on the East side.

If this routing is accepted, please let us know at an early date the approximate time schedule for construction.

Sincerely yours,

/s/ Gerald

Gerald W. Thomas  
Dean of Agriculture

GWT:cr