

TEXAS TECHNOLOGICAL COLLEGE
Lubbock, Texas

MINUTES OF THE CAMPUS PLANNING COMMITTEE

Meeting No. 226

October 8, 1964

A meeting of the Campus Planning Committee was held at 1:30 p.m. on October 8, 1964, in Room 120 of the Administration Building. Members present were Mr. E. J. Urbanovsky, Mr. Nolan E. Barrick and Chairman M. L. Pennington. Others present were Mr. Robert L. Mason, Mr. O. R. Downing and Mr. John G. Taylor.

2835. Approval of Minutes

On motion by Mr. Urbanovsky, seconded by Mr. Barrick, the Minutes of Meeting No. 225 were approved with the correction of Items 2819 and 2820 of Meeting No. 225 to read: "It is necessary to comply with Article IV, Section 18 of the General Provisions of the current Appropriation Bill (H.B.186)."

2836. President's Approval of Minutes

President Goodwin approved the Minutes of Meeting No. 225 on September 22, 1964.

2837. Agricultural Facilities

Horse Facilities

The penciled drawings prepared by the Animal Husbandry Department have been sent to Dean Thomas for his study and recommendations.

2838. Bookstore Addition (H. A. Padgett, Jr., \$238,499 - August 1, 1964)

A. Construction Progress

Everything seems to be operating, but no request has been received for the final inspection.

B. Solar Screen

The screen is approximately 95 percent complete.

2839. Campus Lights for Library, Student Union, Music Building, Horn, Knapp, Drane, Doak and Weeks Area

Enough of the material has been received to begin the installation which is in progress.

2840. Chemical Engineering and Nuclear Reactor Building

On September 17, 1964, President Goodwin asked the Division of Reactor Licensing, Atomic Energy Commission, to cancel the permit for construction of the Reactor Building due to our inability to secure construction funds.

2841. Chemical Research Building

Mr. Barrick gave a verbal report on the results of the study of the project to date which included the square footage requested by category, space utilization and future predictions. There is some doubt that the site would accommodate the future needs. Mr. Barrick said he would summarize the report, which is attached to and made a part of the Minutes. (Attachment No. 533, page 1605)

2841. Chemical Research Building (continued)

The architects are working on information for the application but until further facts are known on the adequacy of the site, it will be impossible to complete the request.

There is still insufficient information on hand to comply with Section 18 of the Special Provisions of Article IV of the current Appropriation Bill.

2842. Classroom-Office Building (New)

Mr. Barrick reported that the project architects have taken all the information on hand and are in the process of attempting to pull together the preliminary studies. They are attempting to prepare the application for matching funds.

As yet, there is insufficient information to comply with Section 18 of the Special Provisions of Article IV of the current Appropriation Bill.

Dr. Lester E. Harrell, Jr., Executive Director of the Texas Commission on Higher Education (The Governor has designated the Texas Commission on Higher Education as the state agency to handle the Higher Education Facilities Act in Texas), has said that it would be November 1, 1964, before the full application forms are available. After the forms are prepared, it will be necessary to secure approval of the Commission on Higher Education and the U. S. Office of Education before the College can take another step. The application includes the preliminary plans.

2843. Dormitory and Dining Facilities (Project CH-Tex-150(D))A. Unit A (H. A. Lott, Inc., \$2,764,546 - August 1, 1964)Year's Guarantee

The contractor is in the process of correcting the items on the punch list.

B. Units B and C (H. A. Lott, Inc., \$2,788,420.40 - August 1, 1964, and \$3,513,215.13 - August 1, 1964)1. Construction Progress

The punch list is in the process of being corrected by the contractor.

2. Walks, Drives and Parking Lotsa. Walks (Frank Hodges, \$37,139)

The job is about 95 percent complete, and the contractor is waiting on the College in order to complete the project.

b. Streets and Parking Lots (Kerr Construction Company, \$58,973.40)

The project is complete, and the final acceptance date of September 12, 1964, is recommended.

2844. Dormitory Expansion

The studies to date were reviewed and discussed, and it was agreed that a special written report will be made and sent to all members. After opportunity to study the developments, a special meeting will be held on the one topic.

2845. Gin--ExperimentalStatus

No recent information has been received.

2846. Housing (Other) and Food Service

- A. Consolidated Food Service Units for West, Sneed, Bledsoe and Gordon Halls - November 1, 1964, and Central Food Facilities - September 1, 1964 (J. R. Francis, General Contractor, Inc., \$1,480,157.10)

Construction Progress

Mr. Barrick reported that the facilities are not as yet complete.

- B. Housing Office (Estimated Cost \$33,025)

Progress

Mr. Barrick reported that the plans are about 95 percent complete and the specifications are complete in rough form. However, the revised estimated cost is \$41,300.

After a great deal of consideration, it was agreed to reject the plans and request the dormitory personnel to present Mr. Barrick with a program of need in order that a new design could be made in an attempt to stay within the approved amount of \$33,025.

2847. Infirmiry Addition (C. M. Pharr Construction Company, \$47,888 - September 1, 1964)Status

Mr. Barrick reported that the project is complete although no request has been received for a final inspection.

The Infirmiry has moved into the facilities within the last few days.

2848. Killgore Beef Cattle Center (Walter E. Wirtz, \$378,839)

Dr. Ulich's letter of September 25, 1964, to Dean Thomas and the attachment under date of July 7, 1964, were read and discussed. It was agreed that both would become a part of the Minutes. (Attachment No. 534, page 1606)

It was further agreed that the Chairman would write the three contractors and ask them to bring the project to a conclusion as soon as possible.

2849. Library

It was agreed that it would be well to go ahead and finish the south basement of the Library if at all possible, and it looks as if there will be adequate funds in the Unappropriated Balance or perhaps the Building Funds of 1949.

2849. Library (continued)

The estimated cost of finishing the south basement of the Library and equipping it is as follows:

Bid by contractor, June 17, 1960	\$59,234	
Allowance for increased costs 10%	<u>5,923</u>	\$65,157
Library Stacks - 25% of first order		
First order, \$57,017 x 25% + 10%		15,680
Table, Study, 100 @ \$35		3,500
Chairs, 100 @ \$30		<u>3,000</u>
Total Estimated Cost		<u>\$87,337</u>

The methods of procedures were discussed at length and it was agreed that it would be well to study the original plans to see how complicated the project will be. The original design was completed by Pitts, Mebane and Phelps and it might be better to time the project, if it is approved, with the new buildings in order that the firm could provide the supervision for the $1\frac{1}{2}$ percent fee stipulated and the clerk of the works could supervise the other projects and this one. However, there might be more economical methods of procedures.

It was agreed to continue to study the possibilities and to make a recommendation at a later date.

2850. MuseumStatus

The architects are still accumulating information. No additional information has been received on the project.

2851. Other ItemsA. Southwestern Public Service Company Request

The request has been received from the Southwestern Public Service Company to run the line along the western edge of Flint Avenue across the campus and then north to Fourth Street, at a minimum depth of 42" with five manholes. The lines would carry 23,000 volts.

A copy of a letter from Mr. Fray Smith, Senior Engineer, under the date of September 24, 1964, with proposed special conditions pertaining to the installation, is attached to and made a part of the Minutes. (Attachment No. 535, page 1607)

It would be possible, if it were advantageous, to have the line at a deeper depth. The company could be required to pay for any future expense caused the College to avoid the line if it is installed. The size of the proposed manholes, 10' x 16', could be questioned. It would be necessary to hold the College harmless. It might be possible to require the company to install sidewalks over the line or the pertinent portion of it if the concession is granted; some consideration should be given to precedent.

After a great deal of discussion, the CPC members were of the opinion that they should study the request even further before making a recommendation. The general feeling was that there might be insufficient advantages to the College to grant the request. On the other hand, the College wishes to be "neighborly" and the CPC does not know how far to go.

2851. Other Items (continued)B. CPC Project Numbers

It was agreed that the CPC would like to provide project numbers for identification in the future, and to request Mr. Taylor to prepare a system of numbering.

2852. Parking

The information accumulated to date and the proposed format of the study was discussed. It was agreed that a preliminary draft would be drawn, circulated among the members and that a special meeting would be devoted to the final recommendation for the Board of Directors.

2853. Parking Lots (Kerr Construction Company, \$23,534.75)A. West Engineering Building

The project is complete and it is recommended that the final acceptance date be set as of September 2, 1964.

B. North of Women's New Dormitory, Unit B

It is complete and the final acceptance date is September 2, 1964.

2854. Traffic-Security FacilitiesConstruction Progress

Mr. Downing reported that the project is complete with the exception of the solar screen. A problem has developed in that cars parking in the area are bumping the concrete pillars and would knock out the screen if it were installed. Remedial procedures are being studied.

2855. Utilities

The City has requested, in the past, permission to expand the substation at the Meats Laboratory in order to provide the additional needed capacity now and in the future. At the last meeting, it was agreed to check with Dean Thomas to see if the School of Agriculture had potential use of the space and Dean Thomas reported that there is none.

It was agreed to recommend the additional space needed by the City for the substation, with the understanding that it be installed as near the fence as practicable.

M. L. Pennington
Chairman

The meeting adjourned at 4:15 p.m.

Campus Planning Committee
 October 8, 1964
 Attachment No. 533
 Item 2841

TEXAS TECHNOLOGICAL COLLEGE
 Lubbock, Texas

Office of the Supervising Architect

October 12, 1964

Mr. M. L. Pennington
 Vice President for Business Affairs
 Campus

Dear Mr. Pennington:

Re: Chemical Research Facility

This office has made every effort to evaluate the problems involved in the siting of the referenced project on the location immediately south of the Chemistry Building as requested by Dr. Dennis. The following information is as accurate as we can determine at the moment. I regret that we have not been able to secure the number of students registered in each section from Miss Clewell. This information will not be available for approximately two weeks and we cannot wait that long. It is not likely that the spaces are being used much below capacity and I do not believe that this unknown factor will greatly distort the conclusions.

Generally speaking, we have tried to predict the need of instructional space for undergraduate chemistry course offerings for the next 8 years to see whether or not these functions plus research functions can possibly be accommodated on the site under consideration. As you know, the site is not a large one.

PRESENT USE OF NET ASSIGNABLE SPACE IN CHEMISTRY BUILDING

Offices	2,384 square feet
Lecture Rooms	4,008 square feet
Laboratory Space	7,545 square feet
Library/Reading Room	1,290 square feet
Research Space	4,643 square feet
Instruction-related Space	<u>6,485</u> square feet
TOTAL	26,356 square feet

The foregoing figures do not include any space in the attic, nor the Faculty Lounge on the upper level. The tabulated areas are net assignable space and relate roughly to a total of 46,606 square feet of space available inside the building on the ground floor, first floor and second floor. This latter figure includes stair halls, corridors, toilet rooms, etc., but not the outside wall dimensions.

The percentage of use is not out of line. It is slightly below the ultimate, but the building does have fairly generous circulation space, which would tend to lower the efficiency percentage. The number of hours per week that the various spaces are scheduled would appear to be fairly average for the campus. It is certainly not a maximum usage based on the normal fourteen

Mr. M. L. Pennington

October 12, 1964

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cycles since we find no spaces that are used more than 24 hours per week and some are used as little as six hours per week. The bulk of the laboratory areas, however, are scheduled from 12 to 24 hours per week. We found only one laboratory scheduled on Saturday morning and none are scheduled at night. Any estimate of possible percentage of increase in capacity based on rescheduling would be highly arbitrary, but it is obvious that the use of the space could be expanded to accommodate more students by lengthening the weekly assignment schedule. I hasten to add that this is generally the situation on the campus and is not intended as a specific criticism of the Chemistry Department.

In addition to the foregoing tabulation of space, a total of 5,782 square feet in X17, X18, X20 and X21 is utilized 24 hours per week for undergraduate laboratory instruction. It is, therefore, apparent that even if we completely excluded research from the chemistry building proper, there would be an insufficient amount of space at present to accommodate the 1964 fall semester student load, the deficit being 1,144 square feet, or the difference between the space scheduled in the X-buildings and space assigned to research in the Chemistry building.

If we add the foregoing deficit to the total net space assigned, we find a total space needed of 27,500 square feet to accommodate the 1964 enrollment of 2,240 registrations. A linear extension of this enrollment figure, based on our empirical graphs, would indicate that the chemistry department will have a registration of approximately 3200 in 1972. Since our total enrollment prediction for 1964 was substantially lower than the actual enrollment, these curves are already below the trend, and we could anticipate a total of 3500 registrations quite as realistically. Based on such a prediction, we would need in 1972 approximately 43,000 square feet of net assignable area. Based on current scheduling rates and a use efficiency of approximately 50% this would give us a total of 86,000 square feet of gross area needed for undergraduate instructional facilities alone. (We could probably realize a little better than 50% efficiency.) This figure would correspond to the present total of 46,606 square feet. In other words, by 1972 it will be necessary for us to construct a building roughly equivalent to the present Chemistry Building to maintain a teaching facility only equivalent to the present one. This will not in any way provide for expansion of programs nor elaboration of course offerings. Let me stress at this point that not one square foot of the entire total is included for research.

The schematic layout submitted by Dr. Dennis proposed approximately 54,000 square feet net assignable area to provide for minimum research needs that would not extend beyond a five year period. This amount of net space would require a building with a gross area approximating 100,000 square feet. It is readily apparent that the site proposed could not possibly accommodate both adequate facilities for undergraduate instruction and for immediate research space needs requiring a total gross area of approximately 140,000 square feet. (Roughly "3 New Chemistry Buildings")

It is the feeling of this office that the proposed site should be reserved with priority for undergraduate instruction and that other suitable sites should be examined for research functions. This would suggest that a careful evaluation of the role of Texas Technological College in the area of research should be made. Since the installation of research facilities is a frightfully expensive proposition, it could be most desirable to have such facilities coordinated in a single location, rather than to have a series of "research centers" scattered throughout the campus as they might relate to instructional departments. There is no question that the installation of a central research facility could result in greater diversity of use through assignment and reassignment of spaces as research projects are phased in and out of an active program. This is a normal procedure in industry and there is no reason why it cannot work on a university campus.

If, however, research at Texas Tech is likely to follow the free lance departmental programs that have operated in the past, the effectiveness of a research center likely could not be fully realized. The role of

Mr. M. L. Pennington

October 12, 1964

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research on this campus is certainly not the prerogative of this office to establish, but we find it quite impossible to do an intelligent job of programming for future needs when the nature of the program is not clearly stated.

I would recommend strongly that we have a meeting with Dr. Goodwin in the very near future to discuss certain facts that have come to light since our last meeting with him. We must move with haste and determination if we are to be able to develop a program on a schedule acceptable to college needs.

Very truly yours,

/s/ Nolan E. Barrick

Nolan E. Barrick
Supervising Architect

NEB/si(b)

Campus Planning Committee
October 8, 1964
Attachment No. 534
Item 2848

TEXAS TECHNOLOGICAL COLLEGE
Lubbock, Texas
School of Agriculture
Lubbock, Texas

Department of Agricultural
Engineering

September 25, 1964

Dean Gerald W. Thomas
Dean of Agriculture
School of Agriculture
Campus

SUBJECT: Report on Pantex Feed Mill Contracts

As per our telephone conversation regarding the completion of contracts on the Pantex Feed Mill, please note the following.

1. My last visit to the feed mill was on July 6th and my comments on work needed at that time were sent to Mr. Barrick on July 7th. For your convenience, a copy is attached.
2. Believe Mr. Barrick contacted the contractors at that time indicating discrepancies as we saw them. I have also talked to each of them by telephone sometime during July. All indicated they would attempt to complete job as soon as possible, however, little appears to have been done to date. In some cases, some equipment had to be ordered.
3. Most recent word from Dr. Ellis and contractors regarding work is listed below.
 - A. General Equipment Contractor: Mr. Jack Brown visited with Dr. Ellis last week and plans to have a crew to finish work (indicated under Item 2 of July 7th letter) during the week of 27 Sept.
 - B. Building Contractor: Mr. Jim Stout had to order trim forms to finish his work (Item 2, July 7th letter). He now has material and promised, by telephone, that he would install same last week, however, this has not, to my knowledge, been accomplished to date.
 - C. Rail Equipment Contractor: Mr. Poe of Stewart Engineering said they would follow-up on needed work (Item 3 of July 7th letter). He visited with Dr. Ellis last week to make arrangements for work needed. Do not have a report from Dr. Ellis on what was accomplished; however, feel sure they will follow-up on same.

The above is the limit of my information as to work to date. Perhaps a letter from the college to the contractors would be of some help to get the work finished.

If I am to follow-up in any manner, please inform me of same.

Very sincerely,

/s/ Willie L. Ulich

WILLIE L. ULICH, HEAD
Dept. of Agri. Engr.

WLU/ek
encl: 1

P.S. Dr. Bennett probably has a copy in his files, of the attachment, which is more readable.

TEXAS TECHNOLOGICAL COLLEGE
Lubbock, Texas
School of Agriculture

Department of Agricultural Engineering

July 7, 1964

Mr. Nolan Barrick, Head
Arch and Allied Sciences
Architecture Building
Campus

Subject: Items noted to be corrected on July 6 visit to Pantex

1. General Equipment Contractor:

- A. According to the operator of the feed plant, the steam boiler pilot light extinguishes when there is a moderate southwest wind. Apparently, some adjustment of the flue or some type of shielding might be a solution to this.
- B. The operators also indicate that there is a pull on the scales, of the batch mixes, when some of the immediate overhead bins are empty. Apparently, this is a wind effect which will need some investigation to eliminate same.
- C. When the overhead grain is dropped into the steamer, a large amount of dust is formed, which settles into the plant. Apparently, a more dust proof type of shroud might be possible to eliminate the dust.
- D. The molasses motor control lever appears to be out of reach for the operator. Apparently, a relocation or a lever extension would be necessary to correct this situation.
- E. The rail tractor control box reel needs to be mounted on the rail tractor.
- F. The rail shielding, especially at the S curve, and the extension between the bins and feed plant need to be appropriately connected or fastened and trimmed out.
- G. There are no electrical switches for operating the motor powered fan vents.
- H. Cold water pipes are exposed and need protection to prevent freezing during the winter months.

2. Building Contractor:

- A. Trim out rail bucket opening doors. Frame work needs painting and door edges faced.
- B. Holes in roof, especially near the corners, need to be covered.
- C. Overhead vent fans should be securely mounted and controls added. At present, they are merely tied up with wire.

3. Rail Equipment Contractor:

- A. The openings at the bottom of the feed hopper bucket, are unsatisfactory. Perhaps a butterfly valve might be constructed to take the place of the push-pull type opening; which at present, does not work. The Stewart Engineers should send down a man to check out this equipment, at no cost to us, as soon as the shields are brought up to standard and they have made some adjustment on A above.

4. Other Requirements:

- A. It will be necessary, apparently, that the top rung of the alley-way gate latch fence be moved to a lower level to permit feed bucket sop to pass over same.
- B. Mr. Ellis is interested in elevating hulls without going through the hammer mill. There appears to be two economical solutions; one being, a small drag conveyor to drop hulls into the back part of the grinding apparatus. The other being the addition of a blower or a suction fan with an extension pipe for elevating the hulls into and through existing conveyor pipe.

The above are listed by the operators of the plant and are concurred by personal observation.

Any way I can assist on this, please let me know.

Very sincerely,

Willie L. Ulich, Head
Agri. Engr. Dept.

WLU/ek (g)

cc: Mr. George Ellis
Mr. Pennington
Dean J. Wayland Bennett

C
O
P
Y

Campus Planning Committee
October 8, 1964
Attachment No. 535
Item 2851A

SOUTHWESTERN
PUBLIC SERVICE
COMPANY

Lubbock, Texas

September 24, 1964

Mr. R. L. Mason, Supervising Engineer
Texas Technological College
Lubbock, Texas

Dear Bob:

This is in connection with our request for permission to install a 23,000 Volt underground circuit across the campus between 19th Street and 4th Street.

Attached are two copies of a drawing showing a possible route for the circuit. This location is along the west side of Flint Avenue (extended) between 19th Street and the railroad, and west of the proposed U.S. Naval Reserve property, between the railroad and 4th Street. Thanks for your help in selecting this route.

It would be appreciated if you would review this proposal with the Campus Committee. We would welcome any comments, or suggestions, that you and the Committee might have.

If there are any questions or additional information which you need, please call me.

Very truly yours,

/s/ Fray Smith

Fray Smith
Senior Engineer

FS/jj
Enclosures
cc: Dr. R. C. Goodwin
Gene McDonald

Special conditions pertaining to the installation of an underground power system across Texas Tech campus by Southwestern Public Service Company

1. The underground electric system will be rerouted as necessary, as directed by officials of Texas Tech, and at no expense to the College, at such future times as the College may locate a building upon any of the area through which the underground system passes.
2. The power company will make all arrangements with the State Highway Department and with Santa Fe Railroad for crossings beneath the highways and railroad, respectively.
3. Texas Tech will assist in every way to locate underground service lines for water, gas, sewer, sprinkler systems, electric service and telephone lines. These locations will be staked before any work is started. All damage to any such systems will be repaired to the satisfaction of the College and at no expense to the College.
4. During course of the construction work, automobiles and other vehicles will be parked only where designated by college officials. Materials will be unloaded and stored only in locations designated for such purposes by the College.
5. Care will be exercised to prevent damage to grassy lawns, trees and fences. The backfill of the excavation will be made as directed by the College. Surplus dirt will be hauled to a location elsewhere on the campus as designated by college officials.

TEXAS TECHNOLOGICAL COLLEGE
Lubbock, Texas

MINUTES OF THE CAMPUS PLANNING COMMITTEE

Meeting No. 227

October 21, 1964

A meeting of the Campus Planning Committee was held at 9 a.m. on October 21, 1964, in Room 120 of the Administration Building. Members present were Mr. Nolan E. Barrick and Chairman M. L. Pennington. Others present were Mr. Robert L. Mason, Mr. O. R. Downing and Mr. John G. Taylor.

(Although the Traffic and Housing studies were handled first, the reports are included in Agenda order.)

2856. Chemical Research Building

A meeting was held at 3 p.m. on October 15, 1964, with Dr. Goodwin and Dr. Dennis. A summary of the meeting is attached to and made a part of the Minutes. (Attachment No. 536, page 1611)

As requested by President Goodwin, Mr. Barrick and his staff are still studying the proposed site, and Dr. Dennis is preparing a priority of space, as funds available are insufficient to provide all of the facilities requested.

2857. Classroom-Office Building (New)

Mr. Barrick reported that the architects are still working on the preliminary plans in connection with the information required for application for matching funds.

2858. Dormitory Expansion

(Dean Lewis N. Jones, Mr. Guy J. Moore and Mr. H. L. Burgess were present for the discussion of the Housing Study.)

After a very great deal of discussion, the study was approved and it is attached to and made a part of the Minutes. (Attachment No. 537, page 1612)

The discussion indicated again the advisability of having a policy statement which would require, perhaps, a good bit of study before it is made. It was thought that it would be well to see whether or not a goal to house 50 percent of the student body would be one answer. It was agreed that it would be well to stay farther behind the number of housing units for men than for women. Also it was agreed that one other bit of usable information would be the percentage of the students housed by other leading institutions and Mr. Moore was requested to see if he could get the information.

2859. Library

Discussion was held as to whether or not it might be more expeditious to attempt to complete the third floor than the south end of the basement. The original estimate of cost for the third floor was \$82,458.72 against \$59,234.00 for the basement.

Since the basement would cost less and the remodeling could be done with almost no disturbance to the present operation, it was agreed to recommend that the south basement of the Library be completed, the funds to come from the Building Funds of 1949 at a total estimated cost of \$87,337.00 and that the architects, Pitts, Mebane, Phelps & White be requested to handle the supervision of the construction.

2860. Other ItemsSouthwestern Public Service Company Request

The CPC members were of the opinion that, strictly from the advantages to the College, it would be very difficult to recommend the granting of the easement for the installation of the line by the Southwestern Public Service Company.

However, the Southwestern Public Service Company does afford competition for the electrical sources and perhaps tends to keep the overall rate down. In the future, it would be possible for the College to tie to the high capacity line across the campus if it were deemed advisable. Otherwise, the results would be mostly negative for the College. With a carefully prepared agreement, the company could be required, and, in effect, has offered to do so, to pay for any future expense to the College.

At this time, the CPC feels that the request would not be to the best interest of the College. However, it should also be considered from a public relations standpoint and the CPC does not feel such to be one of its prerogatives.

2861. Parking

(Dean Lewis N. Jones, Chief Bill Daniels and Mr. Mike Stinson attended the discussion on parking.)

The CPC agreed that it is an oversimplification to point out that the parking and traffic situation at the College is obviously most difficult.

It was agreed that steps should be taken to reduce the traffic especially during the heavy peak of class change, and in the circle as and when possible.

That the safety of the pedestrians should receive prime consideration. (There recently has been a serious traffic accident and the student is still in the hospital.)

In the preparation of space for ports of entry, if they are approved, there would need to be space for "stack up" and turn-around at the entries.

It was agreed that it would be difficult to restrict the number of cars on campus if there were no ports of entry.

Mr. Stinson reported that there are 107 more cars registered than there are spaces for the west dormitory lots which comprise those for Thompson, Gaston, Wells, Carpenter and the new Men's Hall, and there are 200 more registrations than spaces for the West, Sneed, Bledsoe and Gordon parking areas.

As many parking spaces as there are available, there is a need for even more at the present time if the present policy is continued.

While the parking lots at the Women's Dormitories are not filled during the day, there is insufficient space to accommodate the automobiles when the girls return to the dormitories at night from dates. In fact, it would be impossible to provide adequate parking space for those occasions.

There was discussion on how appropriate it might or might not be to use grade points to determine who could have parking space on campus, and it was agreed that the courses and degree programs followed by students could cause some complications in the application of such policy.

It was agreed to make the Parking Study, which served as a basis for the discussion, a part of the Minutes. (Attachment No. 538, page 1613)

2861. Parking (continued)

The recommendations of the CPC were that:

1. A basic policy of parking be developed in view of the long-range objectives.
2. Appropriate steps be taken to restrict the number of cars on campus.
3. Attempts be made to provide parking garages, the possibility of double-decking the stadium parking lot be explored and other steps studied to increase the number of parking spaces.

The CPC offered to work with the Traffic and Security Commission in any way possible.

4. The ports of entry be installed by September 1, 1965, as the first step in improving the traffic and parking. It was felt that the ports would be beneficial and that the College could finance the operation from the funds available.

M. L. Pennington
Chairman

The meeting adjourned at 12:05 p.m.

Campus Planning Committee
October 21, 1964
Attachment No. 536
Item 2856

TEXAS TECHNOLOGICAL COLLEGE
Lubbock, Texas

Office of the Vice President
for Business Affairs

October 19, 1964

CHEMISTRY RESEARCH BUILDING

A meeting was held at 3 p.m. on October 15, 1964, in the Office of the President with the following present: Dr. R. C. Goodwin, Mr. E. J. Urbanovsky, Mr. Nolan E. Barrick, Mr. John G. Taylor, Dr. Joe Dennis and M. L. Pennington.

The purpose of the meeting was to consider the site south of the present Chemistry Building in view of the studies to date. Mr. Barrick's letters of October 12, 1964, were used as a basis, and Mr. Barrick read aloud the one which is included in the CPC Minutes of Meeting No. 226. (Attachment No. 533, page 1605)

Dr. Dennis said that there are lectures on Saturday morning but they have been unable to get students to have labs on Saturday mornings. The labs can be used only eight periods per week as the number of students is limited by equipment space. There are eight drawers or lockers for each of the student spaces in laboratories. As a result, the labs can only be used eight periods, or 24 hours, per week.

Mr. Barrick pointed out in his letter that his study indicates that by 1972, the Chemistry Department would need to add three times the present facilities and that the site south of the building would seem to be too small.

Dr. Goodwin seemed to favor the Greenhouse and Seismograph sites and go as far west as possible.

It seemed to be the consensus that a research building, generally speaking, should be used for research and not plan to convert it at a future date if it could be avoided. If Texas Tech gets the National Science Foundation grant, it would be necessary to use the research facilities for that purpose for ten years in keeping with the terms of the grant.

Dr. Dennis pointed out that to build a separate research facility is to divide a program. He said that the graduate and undergraduate programs cannot be divided and the research program ties to the graduate program. He pointed out the difference between contract and grant research and said that contract research tends to pull the researcher away from the rest of the faculty while grant research does the opposite. The only purpose of a graduate program is to strengthen the undergraduate program and vice versa. Both programs use much of the same equipment, the same technicians service both the graduate and undergraduate programs. More money would have to be invested in equipment and servicing personnel if the facilities were separated. If the facilities were separated, it would be necessary to move a good many people and a good bit of equipment and the esprit de corps would be affected. He expressed doubt that a separation could justify the loss of efficiencies and the increase in costs.

Dr. Dennis said that he thought that facilities would not be separated if they were joined to the present one by a walkway or some such means which would allow servicing of the new unit from the old one.

It was agreed that some remodeling would be required in the vacated spaces in the present building when research is moved out. There would be some expense involved in the relocation of the Greenhouse and Seismograph building and equipment.

It was agreed that Dr. Dennis would establish a priority list of needs in order to fit the needs to the budget.

It was agreed that Mr. Barrick would play with an L-shaped building to the south of the Chemistry Building.

As to the question of departmental research versus a Research Center, Dr. Dennis said that at a meeting of department heads of Engineering and Sciences held in Dean Rigby's office the past summer, it was agreed that a Research Center should be considered only if the departments are first strengthened and that such a Center should not be considered if it would interfere with the strengthening of the departmental programs.

M. L. Pennington
Vice President for
Business Affairs

MLP:v

Campus Planning Committee
 October 21, 1964
 Attachment No. 537
 Item 2858

HOUSING STUDY
 TEXAS TECHNOLOGICAL COLLEGE

I. Campus Planning Committee Charge

At the meeting of the Board of Directors on August 22, 1964, the CPC was instructed to study the needs for dormitory expansion and report at the meeting to be held on October 24, 1964.

II. General Information

A. Enrollment

12th class day of the fall semester:

<u>Year</u>	<u>Total</u>	<u>Percentage Increase</u>	<u>Men</u>	<u>Percentage Increase</u>	<u>Women</u>	<u>Percentage Increase</u>
1955	7,154	14.3	5,321	17.9	1,833	5.0
1956	8,055	12.6	6,089	14.4	1,966	7.2
1957	8,566	6.3	6,295	3.4	2,271	15.5 (Wicks Hall)
1958	8,770	2.4	6,337	.7	2,433	7.1
1959	8,866	1.1	6,266	1.1*	2,600	6.9
1960	9,178	3.5	6,239	.3*	2,939	13.0
1961	10,212	11.3	6,799	9.0	3,413	16.1 (Tanner West)
1962	11,183	9.5	7,361	8.3	3,822	12.0
1963	12,036	7.6	7,731	5.0	4,305	12.6 unit A
1964	13,827	14.8	8,730	12.9	5,097	18.3 unit B.
Ten-Yr. Increase: 93.2				64.1		178.1

*Decrease

The ratio of men to women is a bit less than two to one. There were 4,657 first-time enrollees including transfers as well as freshmen, and 69 valedictorians were enrolled in the freshman class.

Estimated:

<u>Year</u>	<u>Total</u>
1965	15,000
1966	16,005
1967	18,067
1968	19,783
1969	21,500
1970	24,045
1971	26,209
1972	28,043

The U. S. Office of Education has predicted recently that enrollment will double between 1963 and 1973 and Texas Tech is ahead of the average increase.

II. General Information (continued)B. Student Source

<u>Year</u>	<u>Counties in Texas</u>	<u>States</u>	<u>Foreign Lands</u>
1954-55	207	35	12
1955-56	216	32	13
1956-57	222	40	20
1957-58	223	40	24
1958-59	217	40	25
1959-60	223	43	24
1960-61	222	43	24
1961-62	227	43	26
1962-63	227	47	29
1963-64	234	46	34

C. Residence Hall System1. Halls

<u>Halls</u>		<u>Capacity</u>		<u>Cost</u>	<u>Bonds</u>	<u>Sinking</u>
<u>Name</u>	<u>Year</u>	<u>Men</u>	<u>Women</u>		<u>Outstanding</u>	<u>Fund</u>
						<u>Balance</u>
West	1934	314		\$ 333,453	\$	\$
Doak	1934		320	314,025		
Sneed	1938	324		346,636		
Drane	1940		316	374,210	124,000	91,755
Bledsoe & Gordon	1947	714		1,787,586	1,546,000	659,422
Horn & Knapp	1947		682	1,789,777		
Weeks	1958		378	1,732,365	1,665,000	1,071,083
Thompson & Gaston	1958	718		2,706,903	2,522,000	
Wells & Carpenter	1958	718		2,606,264	2,510,000	
Wall & Gates	1963		808	3,238,248		
Hulen & Clement	1964		808	3,042,286	10,666,000	
Men's 9 & 10	1964	1,054		3,879,527		
TOTAL		3,842	3,312	\$22,151,280	\$19,033,000	\$1,822,260

2. Other

Central Food Facility & Consolidated Food Service Unit	1964			1,573,000	1,373,000	
GRAND TOTAL		3,842	3,312	\$23,724,280	\$20,406,000	\$1,822,260

Total Capacity for Men & Women 7,154

II. General Information (continued)D. Occupancy Experience

<u>Year</u>	<u>Cap.</u>	<u>Occ. 1st Class</u>		<u>End of Sp. Sem.</u>		<u>Diff. &</u>		<u>Attri-</u>
		<u>Day & % of Cap.</u>		<u>& % of Cap.</u>		<u>% of Cap.</u>		<u>tion</u>
1958-59	4,477	3,889	87.4%	2,865	64.4%	1,024	23.0%	26.3%
1959-60	4,477	3,835	86.2%	3,118	70.1%	717	16.1%	18.7%
1960-61	4,477	4,128	92.8%	3,681	82.8%	447	10.0%	10.08%
1961-62	4,477	4,424	99.5%	4,183	94.1%	241	5.4%	5.4%
1962-63	4,477	4,481	100.1%	4,333	96.8%	148	3.3%	3.3%
1963-64	5,285	5,111	96.7%	4,781	90.5%	330	6.2%	6.5%
1964-65	7,143	7,042	98.5%					

As of October 16, 1964, the average occupancy of all halls was 97.66% of capacity compared to 98.5% on the first class day this fall.

E. Construction Policy

The policy of the Board of Directors as shown by Attachment No. 84 of the Policy Statement adopted on August 22, 1964, is as follows:

- (1) It is general policy not to provide on-campus housing for administration, faculty or other college employees. Special permission in exceptional circumstances may be granted.
- (2) It is general policy not to provide on-campus housing for married students. Special provisions may be made in exceptional circumstances.
- (3) It is general policy to provide on-campus housing for unmarried students. Insofar as such facilities are available, all unmarried students, both male and female must be housed on the campus. In exceptional circumstances involving only the health, employment or bona fide residence and daily travel to and from the college, special permission may be granted to unmarried students for off-campus housing.

F. New Spaces, Fall, 1964

Hulen and Clement Halls and the new hall for men added spaces for 808 women and 1,054 men, *1,862 NEW SPACES*

Since West Hall was used for women residents last year, Mr. H. L. Burgess, Supervisor of Room Reservations, estimated the net new spaces available this fall at about 1,350 for men and about 700 for women.

The effect on the housing situation in town is indicated by the report from Dean Lewis N. Jones, Dean of Men, that some house-mothers have reported that they do not have a student in their facilities and apartment owners have been calling him for aid to fill vacancies.

G. Considerations for Financing

A report prepared by Mr. John G. Taylor, Business Manager, on September 23, 1964, and another on October 13, 1964, are attached.

The units of the present system are pledged and cross pledged to finance the system.

III. Items of Consideration

A. Can a New Project Be Financed at this Time?

A new project could be financed at this time, but the complete answer would depend on the method of financing. It could be HHFA or private. If it were HHFA, it probably would have to be handled as a single unit outside of the present system, as there is not the required 1.35 coverage at this time. It is probable that the coverage could be shown by next June, and thereby a new unit added to the existing system. It would be possible to finance one through private capital. If it were handled in any way other than as a part of the present system, higher room and board rates would be necessary.

B. What is the General Need for Additional Housing?

If the College is to continue to provide a large portion of the single-student housing, additional housing will be required each year for the foreseeable future and in rather substantial quantities.

The need would exist for both men's and women's housing although it is generally considered more important to provide women's housing than men's if there is a need to make a choice.

Housing for either or both in the quantities needed would require a very large program of financing, proper timing and much usage of land. It probably would be necessary to start a new housing system separate from the existing system, and the cost of room and board would be affected greatly.

A meeting with the Housing Staff showed that this fall 64.8% of the women students and 44% of the men are housed on campus, for a total of 51.6% of the entire student body. To maintain the overall percentage, it would be necessary to have a minimum of 1300 additional spaces by 1966. However, the thought was expressed that it could be better to have some 850 additional spaces by 1966 and reassign students to the halls on the basis of grades.

C. Should West Hall Again Be Diverted to Use by the Women?

The Housing Staff was not very receptive to the idea although it would ease the problem somewhat for women students next fall. The total enrollment probably would be more if it were used for women as men can more easily find living accommodations in town. However, it might not be entirely fair to the men.

D. As Timing Would Be a Matter of Importance, How Long Would it Take To Have a New Facility Completed?

Approximately 28 months were required from the time of the "go sign" to final completion of the last three major projects.

E. Should More Concentration be Devoted to Housing for Women Than for Men?

In general, the answer is yes, and there could be several approaches. One would be to construct additional facilities for women and let men fend for themselves. Another would be to construct proportionately more facilities for women and still another could be to construct facilities on campus for women and seek private capital for off-campus facilities for men.

The Housing Staff generally felt that it would be more important to construct women's housing with the thought that it would be good to have sufficient on-campus housing for all undergraduate women. Unquestionably, the parents prefer to have their daughters housed on campus.

III. Items of Consideration (continued)

E. Should More Concentration be Devoted to Housing for Women Than for Men? (continued)

A very careful policy should be developed and adhered to if maximum results are to be achieved on a long-range basis. Such policy could affect to a large degree the academic program of the College. For instance, a concentration on additional housing for women would continue to increase enrollment in Arts and Sciences and Home Economics more than in other schools.

F. Should Consideration be Given to Graduate Student Housing?

Probably a majority of the graduate students are married and, if so, they would be more interested in married student housing than in single. However, graduate students are vital to a first-class educational institution, and their needs should be considered.

Some of the Housing Staff thought there should be graduate halls for single students. If so, the single-room concept should be used although there would be higher rent. On the other hand, it would be possible to accommodate them in the summer by blocking off an entire wing for them, as was done last summer in both the men's and women's halls. There are many more graduate students in the summer than there are in the long term.

G. Should Consideration be Given to New Types of Housing that Would Embody New Features and Perhaps Require Less Land?

It was strongly felt by the Housing Staff that there should be new concepts. Generally, the members felt that it would be well to have a complex with as many as four living units, probably two for men and two for women, with a central dining, recreation, administrative and maintenance unit. They felt that some changes should be made within the rooms, perhaps to the extent of making the rooms only study and sleeping areas--even moving out the radios, hi-fis, etc.

It was the feeling that a central building would permit smaller numbers in the housing units, perhaps from 300 to 500, and still derive economies from being able to feed larger numbers than is now being done. As many as 3,000 could be fed in the central dining room. Such an arrangement would allow for additional housing space without having to duplicate the kitchen and dining room areas and equipment.

A major study would be highly recommended, as there are new and important aspects to consider. Probably another inspecting team should go out.

H. Where Should New Facilities be Erected?

There is probably no room remaining for residence halls between 19th and 4th and Flint and College. Additional housing would have to be west of Flint and/or east of College. If west of Flint, consideration should be given to provisions for additional academic and general facilities in the area. It probably would not be wise to ring the present campus with halls along the west side of Flint and not leave space for additional educational buildings. Very likely, additional educational facilities will be needed to the west of Flint by as early as 1972.

The Housing Staff seemed to feel that it would be more important to set aside space for a housing complex than it would be to have the housing closer to the main campus.

III. Items of Consideration (continued)

I. Shouldn't an Attempt be Made to Buy Land to the East of College Avenue?

Such land would enable the housing to be closer to the campus and would save present land for future expansion of the academic efforts of the College. The land will become more valuable and be harder to obtain as the years go by.

Financing the purchase could be quite a problem. The purchase could be part of the loan, but would affect the price of room and board. The College has the right of condemnation, which could be exercised as a last resort if the land is to be purchased.

There could be many advantages to buying the land as soon as possible, and it could mean a very great deal to the College in the years ahead.

J. How Far Ahead Should Housing Plans be Made?

The plans should be of a very long-range nature and would require major policy decisions. Such plans should not be made without consideration of the long-range academic plans of the College. Dr. W. M. Pearce, Vice President for Academic Affairs, is currently preparing an eight-year plan for the College, and perhaps he should include housing in order that all planning could be brought along together.

Many phases of the academic planning are vital to the housing program. For example, the College would be in most difficult straits if there were a large housing program underway and the decision was made to limit enrollment. Some members of the faculty seem to feel that the enrollment should soon be restricted.

It would be helpful if a policy could be developed on just how much housing the College would provide. For instance, if housing were to be limited to 10,000 spaces and the announcement made, private capital could be expected to adjust. It would be sound to agree on a percentage of the student body to be housed in halls, and adjustments could be made accordingly.

K. How Should Future Housing Needs be Financed?

All available sources should be explored--both public and private--in order to secure the most favorable means to meet the needs.

The HHFA interest rate at present is 3 3/4%, and some of the private lenders will provide funds at just about the same rate. Several schools in Texas have made different arrangements with such companies in the recent past, and there are many sources of private funds at the present time. Private capital will follow almost any plan desired by the College.

If private sources are to be considered, the arrangements and experiences of schools with such facilities should be explored.

Private owners of rooming and boarding houses should not be overlooked if they would be expected to play any part in the program of the College.

IV. Recommendations

A. Immediate

1. Consideration be given to additional housing for women under timing and financing most favorable to the College.
2. Consideration be given to additional housing for men under the same conditions.
3. It probably would be September, 1967, before a unit comparable to one of the recent units could be ready for occupancy, even if the "go sign" were given in the near future. There would be a great deal of study and planning before a positive step could be taken.

B. Future

The proper persons be instructed to develop a comprehensive plan which would indicate the percentage of students to be housed or the maximum number, in the manner most beneficial to the academic program and goals of the institution.

TEXAS TECHNOLOGICAL COLLEGE
Lubbock, Texas

Office of the
Business Manager

September 23, 1964

ESTIMATE OF RESIDENCE HALL FUNDS

Funds Available 8-31-64

Estimated Balance (Books not closed)	\$111,000.00
Balance in Movable Equipment Account, Units B&C	<u>179,122.18</u>
 Total Funds Available	 \$290,122.18

Funds Needed in 1964-65

Movable Equipment for Units B&C	\$202,111.36	
Movable Equipment for Project 180(S)	132,000.00	
Sprinkler and Landscaping for Units B&C	10,200.00	
Addition to Residence Hall Office	<u>33,000.00</u>	<u>377,311.36</u>

Amount needed from 1964-65 Operating Funds (Budgeted Excess of Income over Expenditures and transfers to Sinking Fund at \$173,000)	<u>\$ 87,189.18*</u>
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NOTE: * Any portion of the \$202,900.00 matching funds put up for Project 180(S) not used will be reverted to the college. It is possible that enough will be reverted to cover the \$87,189.18.

TEXAS TECHNOLOGICAL COLLEGE
Lubbock, Texas

Office of the
Business Manager

October 13, 1964

Residence Halls Expansion

The Bond Resolution of the current "Housing System" states:

"Section 29. That Additional Bonds shall be issued only in accordance with this Resolution, but no installment, Series, or issue of Additional Bonds shall be issued or delivered unless:

(a). The senior financial officer of the college signs a written certificate, approved by the President of the college, to the effect that the Board is in full compliance with all covenants and undertakings in connection with all outstanding Bonds and Additional Bonds, and the resolutions authorizing same.

(b). The State Auditor of the State of Texas, or an independent certified public accountant, signs a written certificate to the effect that, during either the College's fiscal year, or the twelve-month calendar period, next preceding the date of execution of such certificate, the Pledged Revenues and Use Fees were at least equal to 1.35 times the average annual principal and interest requirements of all then outstanding Bonds and Additional Bonds."

This means that we cannot possibly show 1.35 coverage now including the bond requirements for the last residence halls completed this summer, without including the net income derived from the operation of the new halls.

If the College wants to take the route of financing another residence hall through HHFA on a parity bond issue, an initial application could be filed in May or June, 1965. This would reserve funds in the federal fiscal year beginning July 1, 1965. We would have 90 days to file the full application and show that we operated during 1964-65 with a 1.35 coverage. The only problem we may have is accumulating enough funds to provide the movable equipment, landscaping and other possible items. This figure could run from \$150,000 to \$250,000.

Should the College wish to proceed immediately with plans and financing, it could go the HHFA or private route if the residence hall or halls were self-supporting and are not included in the system. The interest rate at the present time for HHFA funds is 3 3/4%. The rate in the private market would probably be near 4%. The coverage required in either case would be 1.25. Going with HHFA, we would realize the lower interest rate, but would have to find the funds for the movable equipment and other items, and there may be a possibility that HHFA will be out of funds until next July 1 or will not loan the full \$3,500,000.

Following is an estimate of the debt service, and the room and board rates required if certain steps are taken:

Residence Hall or Halls \$3,500,000 50 Years

1. HHFA Parity Bonds @ 3 3/4% 1.35 Coverage
Debt Service \$155,995 Annually
Room and Board \$760, 9 months^a
2. HHFA Bonds (Self-supporting halls) 3 3/4% 1.25 coverage
Debt Service \$155,995 Annually
Room and Board \$805, 9 months
3. Privately Financed - Revenue Bonds 4% 1.25 coverage
Debt Service \$162,925 Annually
Room and Board \$815, 9 months

Our present top room and board charge of \$760 is higher than The University of Texas' top rate of \$748^b and North Texas University's top rate of \$617. Other state colleges and universities charge less than the three mentioned above. Among the non-state supported colleges and universities in Texas, SMU has one of the highest rates, \$850. Considerable thought needs to be given to the possible effect of raising our rate or rates when they are already the highest among state colleges and universities in Texas and the surrounding region.

^aBased on projection used for Project CH-Tex-180(S). Subject to review before application is filed.

^bIncludes linens and other services not included in other rates.

Campus Planning Committee
 October 21, 1964
 Attachment No. 538
 Item 2861

TEXAS TECHNOLOGICAL COLLEGE
 Lubbock, Texas

Parking Study

I. Assignment

At the August 22, 1964, meeting of the Board of Directors, the Campus Planning Committee was instructed to study the parking situation on the entire campus and to report at the October meeting. The assignment arose in connection with the recommendation by the Traffic and Security Commission for the establishment of ports of entry on campus.

II. Basic Philosophy Used in the Study

Provide maximum utilization of the entire campus by all persons--students, faculty, staff and visitors--now and in the future.

Protect the pedestrians on the inner campus as much as possible.

Afford opportunity for access to anyone who needs to be on campus.

Improve public relations with all groups as much as possible.

III. Traffic and Security Commission

A. Established

The Commission was created by President E. N. Jones on April 28, 1958, and became active on September 1, 1958.

B. Membership - Fall, 1964

<u>Name</u>	<u>Title</u>
1. Dean Lewis N. Jones, Chairman	Dean of Men
2. Mr. L. D. Blakeney	Assistant Chief of Police, City of Lubbock
3. Chief Bill Daniels (nonvoting)	Chief, Traffic and Security Department
4. Mr. O. R. Downing	Director, Building Maintenance and Utilities
5. Mr. R. Briggs Irvin	Consultant and Attorney
6. Dr. James W. Kitchen (nonvoting)	Superintendent of Grounds Maintenance and Assistant Professor
7. Professor C. M. Parrish	Assistant Professor
8. Mr. M. L. Pennington	Vice President for Business Affairs
9. Mr. Mike Stinson	Student*
10. Mr. E. J. Urbanovsky	Professor and Head, and Landscape Architect

*Chairman of Traffic Committee of the Student Council

C. Accomplishments

1. No fatal accidents on campus so far.
2. Maintained order and given general direction to the parking and security of the congested college community.
3. Increased the number of paved parking spaces.

IV. Background InformationA. Parking Spaces1. By Date and Type

<u>Year</u>	<u>Reserved</u>	<u>Other</u>	<u>Total*</u>
1960	333	4,676	5,009
1961	509	4,676	5,185
1962	801	4,676	5,479
1963	1,046	4,938	5,984
1964	1,202	5,101	6,303

*Parking lot at the Stadium is used by agreement with Auditorium-Coliseum operating committee and the 2,000 spaces available are not included.

2. By Lot

<u>Lot.No.</u>	<u>Lot</u>	<u>Staff</u>		<u>Student</u>		<u>Reserved Paved</u>	<u>Special Paved (30 min.)</u>
		<u>Dirt</u>	<u>Paved</u>	<u>Dirt</u>	<u>Paved</u>		
1	Science					509	
2	C & O					289	
3	Library					248	
4	West Engineering					156	
5	Women's 6, 7, 8 & 9				540		
6	Women's Gym		18				
7	Room Reservations		19				
8	Knapp Hall				30		
9	Infirmery		8				
10	Infirmery (30 min.)						44
12	Administration Bldg.	401					
13	Drane & Horn Halls				273		
15	Music Building		16		48		
16	North of Women's 8 & 9				480		
17	Agriculture Building	24					
19	Social Science	142					
20	West of Textile Engineering	34		28			
22	Textile Engineering	17					
23	East of Stadium			600			
24	Bledsoe, Gordon, Sneed & West	72		500			
26	Men's Gym	27		113			
27	Thompson Hall			215			
28	Carpenter Hall			260			
29	Wells & Gaston			430			
30	Men's 9 & 10			488			
31	Agricultural Plant Science	35		60			
32	Physical Plant Bookstore		154				25
TOTALS		69	898	688	3,377	1,202	69

TOTAL PARKING SPACES ON CAMPUS: 6,303

PARKING SPACES AT STADIUM-COLISEUM: 2,000

B. Vehicles Registered

	<u>1961-62</u>	<u>1962-63</u>	<u>1963-64</u>
Faculty and Staff	1,521	1,309	1,538
Off Campus	5,564	4,931	4,935
South Dorms	659	739	836
North Dorms	861	861	982
West Dorms	868	1,001	1,386
Reserved Parking	512	1,135	1,672
Freshmen	216	287	447
Scooter	72	25	62
Special	1,855	1,362	2,058
Total	<u>12,128</u>	<u>11,650</u>	<u>13,916</u>

IV. Background Information (continued)C. Traffic and Security Operation1. Statement of Operations

<u>Year</u>	<u>Vehicle Fee and Rein- statement Fee Income</u>	<u>TRAFFIC Expenditures</u>					<u>Balance</u>	<u>SECURITY* Expenditures</u>
		<u>Traffic Operations</u>	<u>Parking Lot Maintenance</u>	<u>New Parking Lots and Additions</u>	<u>Remodeling Traffic Facilities</u>	<u>Total</u>		
1959-60	\$ 46,162.01	\$ 35,663.33	\$	\$	\$	\$ 35,663.33	\$10,498.68	\$ 15,157.41
1960-61	56,131.80	37,739.26	881.68	4,580.65		43,201.59	23,428.89	14,986.96
1961-62	63,028.00	40,712.09	1,562.42	10,174.51		52,449.02	34,007.87	24,577.34
1962-63	77,586.40	40,958.77	14,043.55	5,991.00		60,993.32	50,600.95	27,497.69
1963-64	<u>97,470.50</u>	<u>52,342.85</u>	<u>1,786.45</u>	<u>14,685.37</u>	<u>884.01</u>	<u>69,698.68</u>	<u>78,372.77</u>	<u>31,217.60</u>
Total	<u>\$340,378.71</u>	<u>\$207,416.30</u>	<u>\$18,274.10</u>	<u>\$35,431.53</u>	<u>\$ 884.01</u>	<u>\$ 662,005.94</u>	<u>\$78,372.77</u>	<u>\$113,437.00</u>
Encumbered for new facilities in 1964-65				\$21,734.05	\$17,000.00		<u>38,734.05</u>	
Estimated Unencumbered Balance 8-31-64							<u>\$39,638.72</u>	

*From state-appropriated funds, none of which may be used for any phase of traffic operation.

IV. Background Information (continued)C. Traffic and Security Operation (continued)2. Budget for 1964-65

TRAFFIC						SECURITY
Vehicle Fee and Rein- statement Fee Income	Traffic Operations	Parking Lot Maintenance	New Parking Lots and Additions	Remodeling Traffic Facilities	Total	Budgeted Expenditures*
\$78,500	\$52,480	\$7,200	-0-	-0-	\$59,680	\$31,360

*From state-appropriated funds.

3. Personnel

The staff is comprised of a Chief, Lieutenant, Night Sergeant, 11 Commissioned Officers, 2 Radio Operators, 1 Relief Radio Operator, 1 Secretary and 2 Clerk-Typists. There are 3 radio-controlled patrol cars.

IV. Background Information (continued)D. Violations Issued

	<u>1961-62</u>	<u>1962-63</u>	<u>1963-64</u>
Campus Parking	20,342	23,414	26,559
Campus Moving	6	6	3
City Parking*	2,852	3,870	123
City Moving	29	72	9
Total	<u>23,329</u>	<u>27,362</u>	<u>26,695</u>
No. of Restrictions	<u>664</u>	<u>859</u>	<u>1,147</u>
Vehicles Towed:			
Restricted	214	320	229
Others	8	52	243
Total	<u>222</u>	<u>372</u>	<u>472</u>

*Prior to 1963-64, city parking tickets were issued for parking violations in the streets, loading zones and grass. Campus parking tickets are now issued for these violations.

E. Enrollment - 12th Class Day

<u>Year</u>	<u>Actual</u>	<u>Predicted</u>
1955	7,154	7,000
1956	8,055	7,400
1957	8,566	7,800
1958	8,770	8,500
1959	8,866	9,400
1960	9,178	10,000
1961	10,212	10,600
1962	11,183	11,300
1963	12,036	11,700
1964	13,827	12,400
1965		15,000
1966		16,005
1967		18,067
1968		19,783
1969		21,500
1970		24,045
1971		26,209
1972		28,043

F. Population (Estimated)

<u>Year</u>	<u>Daytime</u>	<u>Nighttime</u>
1959-60	10,000	4,200
1960-61	11,120	4,200
1961-62	12,220	4,500
1962-63	13,325	4,500
1963-64	14,200	5,300
1964-65	16,068	7,200

G. Visiting Groups

There are many meetings of various groups from off campus and there will be more in the future, as they are necessary and should be encouraged. However, the visitors tend to congest on-campus traffic. The number of such meetings and cars is not available, but the following information for the Student Union alone will indicate some aspects of the scope of the problem.

IV. Background Information (continued)G. Visiting Groups (continued)

<u>Month</u>	<u>No.</u>	<u>Total Attendance</u>	<u>Average Attendance</u>
September	4 (1963)	142	35
October	12 "	3,158	263
November	12 "	1,013	84
December	8 "	1,765	221
February	16 (1964)	2,287	143
March	8 "	1,059	136

H. Pedestrian Crossings

An actual count of pedestrian crossings was conducted by Dean Jones. The following is his summary.

Bookstore Crossing, 15th Street

March 7, 1964, 7:30 a.m. to 5:15 p.m. by 15-minute intervals

Pedestrian CrossingsMaximums by rank order

1. Northbound 12:45 p.m. to 1 p.m.	140
Average per minute	9.3
2. Northbound 1:45 p.m. to 2 p.m.	110
Average per minute	7.3
3. Northbound 7:45 a.m. to 8 a.m.	95
Average per minute	6.3

Automobile CrossingsMaximums by rank order

1. Eastbound 2 p.m. to 2:15 p.m.	150
Average per minute	10
2. Eastbound 12 Noon to 12:15 p.m.	148
Average per minute	9.8
3. Eastbound 4 p.m. to 4:15 p.m.	145
Average per minute	9.67

Total Maximum Crossings--Pedestrians and Automobiles, both directions, 12:45 p.m. to 1 p.m.

Pedestrians--Northbound	140
Average per minute	9.67
Pedestrians--Southbound	40
Average per minute	2.67
Total	180
Overall average per minute	12

Automobiles--Westbound	131
Average per minute	8.7
Automobiles--Eastbound	78
Average per minute	5.2
Total	209
Overall average per minute	13.9

Total Minimum Crossings--Pedestrians and Automobiles, both directions, 8:15 a.m. to 8:30 a.m.

Pedestrians--Northbound	3
Pedestrians--Southbound	3
Total	6
Overall average per minute	.4
Automobiles--Westbound	28
Automobiles--Eastbound	21
Average per minute	3.2
Total	49
Overall average per minute	3.67

IV. Background Information (continued)H. Pedestrian Crossings (continued)Administration Building and Chemistry Building Crossing

February 7, 1964, 7:30 a.m. to 5:15 p.m. by 15-minute intervals

Pedestrian Crossings

Maximums by rank order

1. Eastbound 8:45 a.m. to 9 a.m.	344
Average per minute	22.9
2. Westbound 8:45 a.m. to 9 a.m.	282
Average per minute	18.8
3. Eastbound 11 a.m. to 11:15 a.m.	254
Average per minute	16.9

Automobile Crossings

Maximums by rank order

1. Southbound 3 p.m. to 3:15 p.m.	153
Average per minute	10
2. Southbound 2 p.m. to 2:15 p.m.	148
Average per minute	9.87
3. Southbound 12 Noon to 12:15 p.m.	145
Average per minute	9.67

Total Maximum Crossings--Pedestrians and Automobiles, both directions, 8:45 a.m. to 9 a.m.

Pedestrians--Eastbound	344
Average per minute	22.9
Pedestrians--Westbound	282
Average per minute	18.8
Total	626
Overall average per minute	41.7

Automobiles--Northbound	80
Average per minute	5.3
Automobiles--Southbound	80
Average per minute	5.3
Total	160
Overall average per minute	10.67

Total Minimum Crossings--Pedestrians and Automobiles, both directions, 8:15 a.m. to 8:30 a.m.

Pedestrians--Eastbound	8
Pedestrians--Westbound	9
Total	17
Average per minute, both ways	1.1
Automobiles--Northbound	28
Automobiles--Southbound	30
Total	58
Average per minute, both ways	3.87
Overall average per minute, both ways	5.00

I. Traffic Regulations

A copy of the Campus Traffic and Parking Regulations, which were developed by the Traffic and Security Commission and approved for 1964-65, is attached.

V. Ports of EntryA. General

1. Provide a control and direction of traffic and parking not now possible.
2. Would deny access to no one who needed to be on campus, and steps would be taken to prevent any possible atmosphere of entering a restricted military base.

V. Ports of Entry (continued)A. General (continued)

3. Cut down on man-hours of daytime policing on parking lots.
4. Should cut down on the number of violations and tickets issued.
5. Would reduce cross-campus traffic by off-campus vehicles.
6. Could reduce on-campus car pooling between classes. There is a good bit of it now, especially in bad weather. Many deliveries of students are made, even though the regulations require the automobiles to stay in the residence hall parking lots.
7. Ports should not interfere with residence hall parking, but it would be necessary to patrol the lots.
8. Some lots will be outside the ports of entry, such as the one north of Hulen and Clement Halls, Stadium, etc.
9. Should improve traffic, parking and public relations by more efficient utilization of available parking, proper direction and information to visitors and distribution of such items as campus maps.
10. Could increase the patrolling of the lots at night.
11. Would affect income if the number of violations is reduced. (The results would be good, but the income from reinstatement fees for 1963-64 was \$9,992.)
12. Would increase the number of campus maps required.
13. More manpower would be required at the ports, but less required for patrolling.
14. Operating and control procedures should be carefully developed.

B. Visitors

1. Provide means to develop records to indicate the number of visitors to expect for various occasions and allow advance preparations by the Traffic and Security Department.
2. Aid visitors and improve public relations by providing opportunity to supply information on the College and direct them to a place to park.
3. Telephone contact with the office for information to aid the visitors. For example, information could be immediately provided on parking lots which are full and lots where space would be available. The costs for telephones at the present rate would be \$46.00 for the initial connections and a \$25.75 service charge per month.
4. Could give visitors permits for identification and checking if necessary.
5. Could send permits to off-campus groups with advance information, and thereby decrease the number of tickets written, speed up traffic at the port and spare the feelings of the visitor who might get a ticket.

C. Physical

1. Construction plans for the ports should be prepared, and the ports should be attractive.
2. Estimated cost is \$20,800. This includes \$20,400 for manpower (three new men needed), \$200 for telephones and \$200 for electricity. *includes 2 new hand saws*
3. Should indicate the sites for the ports. There probably would be a total of five, located at appropriate places on Boston, 15th to the east, Broadway extended, 6th and Boston and 15th to the west.
4. Would be open $5\frac{1}{2}$ days per week, 7 a.m. to 3 p.m. on Monday through Friday and 7 a.m. to 11 a.m. on Saturday.
5. There probably would be a backlog of traffic when the ports were first placed into operation. Some of the problem could be offset by adequate publicity.

VI. Present and Future Needs

- A. To cut down on the number of cars on campus.
- B. Items planned for future years as shown in Traffic and Security Minutes.

VI. Present and Future Needs (continued)

- C. Resulting effects when construction is solid to Flint Street and when it must go beyond. New education and general facilities probably will reach Flint by 1970, and additional residence halls probably will be to the west of Flint.
- D. The growth and spreading of the College will require more security day and night.
- E. Control point for all information on meetings on campus is needed. The information would indicate the number, who they are, the dates, where they would be, etc., and should be reported well ahead of time in order for preparation to be made.
- F. There should be emphasis on the pedestrian traffic during class changes. At the present, there is a tendency to bring the pedestrians and the cars (pooled and others) into conflict.
- G. Long-range plans should be prepared to cope with the influx of increasing on-campus population. (The U. S. Office of Education reported recently that the enrollments will double between 1963 and 1973, and Texas Tech is well ahead of the average.

VII. Sundry Items

- A. Vendors now have special permits and would be recognized at ports of entry.
- B. Should keep an up-to-date list of retired people, for example, Dean Weeks, Dean Stangel, Mr. Gaston, etc. It would be necessary to know how to get the list and to keep it current.
- C. The Central Warehouse keeps many trucks off campus at present and the warehouse in the Central Food Facility will keep a good many more off.
- D. There is no problem at the moment with people who have post office boxes but live off campus, but there could be in the future. However, the College probably will have to take over all the boxes available in a few years.
- E. Possibility of tying student parking permits to academic achievement could be explored. The students probably would accept it sooner if there were ports. Such procedure could automatically eliminate freshmen and transfers if desirable.
- F. Only The University of Texas and Kansas are known to have ports of entry at the present. It probably would be well to visit and study both installations and secure all possible information--good and bad--for use by Texas Tech. *Quite a few others are known. See page 2*
- G. There is in the offing an organization of Texas Traffic and Security Directors of colleges and universities, and it should have beneficial results.
- H. Only The University of Texas is known to have "drive through" permits. The driver cannot leave the car but could pick up the husband, for instance. A procedure would be developed at Texas Tech in order to encourage visitors.
- I. The graduate program and the effect on parking should be considered. Teaching assistants probably should have faculty parking privileges.
- J. The possibility of on-street parking could be explored, although it is extremely undesirable, due to the danger to pedestrians. In addition, it would detract from the beauty of the campus.

VII. Sundry Items (continued)

- K. The possibility of double decking the Stadium lots could be explored.
- L. The possibility of a parking building at the site of the Power House could be explored, although it would have to be weighed against academic need, probably engineering.
- M. Car pools by students, visitors to meetings, faculty and staff could be studied.
- N. Texas Tech at the present time must try to provide parking space for everyone who wishes to bring a car to the campus.
- O. Texas Tech has far more parking spaces than most colleges and in comparison to some others, parking space is rather well provided.
- P. As more students park near the campus, more complaints are heard from nearby home owners.

VIII. Recommendations

The final recommendations of the Campus Planning Committee will be made after review of this study and will be handled separately.

CAMPUS TRAFFIC AND PARKING REGULATIONS

1964-65

1. VEHICLE REGULATIONS

- a. Every student and any employee of the College who operates or parks a motor vehicle (automobile, motorcycle, motorscooter, or motorbike) on the Texas Technological College campus must register his vehicle with the College before he is allowed to park on the campus, including students attending night classes.
- b. Application for parking privileges may be secured beginning with registration for classes. The parking privilege permits will be attached in the proper place by the Traffic-Security Department.
- c. Students requiring the use of a motor vehicle after registering for any period, however short, must immediately register this motor vehicle before he is allowed to drive or park on the campus. (SPECIAL PARKING PERMITS ARE AVAILABLE FOR CERTAIN DISABLED STUDENTS AND STUDENTS WHO HAVE AN AUTOMOBILE ON A TEMPORARY BASIS.)
- d. A registration fee of \$10, valid for both long semesters (freshmen students--see 2g and 3a), is payable at the beginning of the fall semester for each vehicle registered and a fee will be charged for each replacement permit issued. Students who do not enroll in the spring semester may request a refund of \$5 of the original charge by having the permit scraped from the vehicle by the Traffic-Security Department. No refund will be given for the fall semester after the first day of classes. No refund will be given for the spring semester after two weeks from the first day of the spring semester classes. (No refund will be issued for a student who has been restricted from parking on the campus.)
- e. A registration fee of \$2, valid for both long semesters, for a motorcycle, a motorscooter, and a motorbike is payable at the beginning of the fall semester. Refunds will be given on the same basis as the paragraph above.
- f. A registration fee of \$2, valid for both summer terms, is payable at the beginning of the first summer term for each vehicle registered and a fee will be charged for each replacement permit issued. Summer students who do not enroll for the second summer term may request a refund of \$1 by having the permit scraped from the vehicle by the Traffic-Security Department. No refund will be given for the first summer term after the first day of classes. No refund will be given for the second summer term after the fourth day of classes. (No refund will be issued for a student who has been restricted from parking on the campus.)
- g. A registration fee of \$1, valid for both summer terms for a motorcycle, motorscooter, and motorbike, is payable at the beginning of the first summer term for each registrant and a 50-cent fee will be charged for each replacement permit issued. Refunds will be given on the same basis as the paragraph above.
- h. (1) A 50-cent fee will be charged for each replacement permit, when the remnants of the original permit are returned to the Traffic-Security Department.
(2) When the remnants of the original permit are not returned, the regular fee will be charged.

VEHICLE REGULATIONS (continued)

- i. Two students will not be permitted to register the same vehicle.
- j. Each registrant must present a valid driver's license at the time the parking privilege decal is issued.
- k. By April 3 the registrant must register his new auto license number with the Traffic-Security Department.

2. WHERE TO PARK

- a. Within the parking areas, a certain portion clearly marked is reserved for staff, visitors, and physically handicapped people.
- b. Between the hours of 7 a.m. and 5 p.m. residence halls students' vehicles must remain in assigned areas except for moving off and onto the campus.
- c. Students living in Bledsoe, Gordon, Sneed, and West residence halls must park only in the large L-shaped areas, extending west of Gordon and Bledsoe residence halls.
- d. Students living in Knapp, Horn, Drane, Doak, and Weeks residence halls must park in one of the following places:

- (1) The area directly in front of Knapp

- (2) The area east of Drane and Horn

Students are not to park in the area west of Doak Hall at any time — FIRE LANE.

- e. Men students living in Thompson, Gaston, Carpenter, Wells, Men's No. 9 and Men's No. 10 residence halls must park in the designated areas adjacent to these residence halls.
- f. Off-campus students may park in areas they choose, provided such parking does not violate any campus parking regulations such as parking in residence halls or staff areas.
- g. Off-campus students, faculty and staff members may park on the Stadium-Coliseum-Auditorium parking lot with valid off campus parking permit.

An agreement has been made with the Coliseum-Auditorium Board of the City of Lubbock to use the lot as long as the privilege is not abused and does not interfere with the normal use of facilities.

The first six single rows of parking space nearest to the Auditorium-Coliseum (west end of parking lot) must be reserved at all times for the use of patrons who will have need to visit the facilities.

On special occasions and upon notification from the manager of the Coliseum-Auditorium, the entire lot must be reserved for the use of patrons of the Coliseum-Auditorium for the time specified.

- h. The vehicle registration fee of \$6 for entering off-campus freshmen students is payable at the beginning of the fall semester for each vehicle registered and a fee will be charged for each replacement.

OFF CAMPUS FRESHMEN STUDENTS MAY PARK IN THE AREA EAST OR WEST OF JONES STADIUM AT ANY TIME WITH A VALID FRESHMAN PARKING PERMIT.

2. WHERE TO PARK (continued)

- i. Any freshman student is defined as any person with less than 32 semester hours of credit.

The vehicle registration fee of \$10 for entering residence halls freshmen students is payable at the beginning of the fall semester for each vehicle registered and a fee will be charged for each replacement.

Freshmen living in residence halls may park in the designated residence hall parking lots with a valid residence hall parking permit.

- j. Parking or driving on the turf at any time is prohibited.
- k. THE AREA RESERVED FOR THE PRESIDENT'S OFFICE IS FOR THE MEMBERS' USE FROM 7 A.M. TO 9 P.M.

3. RESERVED PARKING AREA

- a. Off-campus students, including off-campus freshmen students, who desire a designated reserved parking space may make application with the Traffic-Security Department at the beginning of registration on a first come, first served basis. (Residence Halls students will not be eligible for parking spaces in the reserved lots.)
- b. A \$20 charge plus \$10 vehicle registration fee for students, including off-campus freshmen, is payable at the beginning of the fall semester for a designated reserved parking space in the parking lot immediately north of the Agricultural Engineering Building, the parking lot south of the Library, and the double parking lot west of the Classroom-Office Building and west of West Engineering Building. Students who do not enroll the spring semester may request a refund of one-half of the original charge by having the permit scraped from the vehicle by the Traffic-Security Department. No refund will be given for the fall semester after the first day of classes. No refund will be given for the spring semester after two weeks from the first day of spring semester classes. (No refund will be issued for a student who has been restricted from parking on the campus.)
- c. An \$8 charge plus a \$2 vehicle registration fee for students, including off-campus freshmen, is payable at the beginning of the summer term for a designated reserved parking space in the parking lot immediately north of the Agricultural Engineering Building, the parking lot south of the Library, and the double parking lot west of the Classroom-Office Building and WEST OF WEST ENGINEERING BUILDING. Students who do not enroll the second summer term may request a refund of one-half of the original charge by having the permit scraped from the vehicle by the Traffic-Security Department. No refund will be given for the first summer term after the first day of classes. No refund will be given for the second term after the fourth day of classes. (No refund will be issued for a student who has been restricted from parking on the campus.)
- d. A charge of \$1 will be paid to the Traffic-Security Department for a coded card key to operate the electric gates at the entrance and exits of the reserved parking lots and will be refunded if the card is returned in good operating condition.
- e. Persons purchasing a designated reserved parking space will be restricted to this one parking space between the hours of 7 a.m. to 5 p.m. weekdays and 7 a.m. to 12 noon Saturdays.
- f. Persons purchasing a designated reserved parking space will be guaranteed this space only from 7 a.m. to 5 p.m. weekdays and 7 a.m. to 12 noon Saturdays. Reserved parking spaces will be open to anyone from 5 p.m. to 7 a.m. weekdays and 12 noon Saturdays to 7 a.m. Mondays.

3. RESERVED PARKING AREA (continued)

- g. Students who purchase designated reserved parking space and find an unauthorized vehicle parking in their designated space will park their vehicle directly behind the unauthorized vehicle and report same to the Traffic-Security Department. This unauthorized vehicle will then be impounded at the owner's expense.

4. GENERAL REGULATIONS

- a. Every person operating a vehicle on Texas Technological College campus is held responsible for obeying all college rules and regulations, City of Lubbock traffic ordinances, and State of Texas laws regulating traffic and parking on the campus.
- b. The registrant of the vehicle is held responsible for the safe operation and proper parking of his vehicle, regardless of who may be the driver or operator.
- c. Improper mufflers and disturbances from starting and stopping a motor vehicle will constitute a violation for the operator and registrant.
- d. In all cases in which a car is parked, the position shall be such that the whole of the vehicle is located within the boundaries of the parking space. The fact that other vehicles are parked with impropriety shall not constitute an excuse for parking with any part of the car over any line.
- e. Violation tickets will be issued for infraction of the following regulations:

Parking

- (1) Parking in staff areas
- (2) Parking outside of designated area
- (3) Parking on the turf--impounding violation
- (4) Parking on sidewalk--impounding violation
- (5) Parking in any loading zone--impounding violation
- (6) Parking in or upon any service drive--impounding violation
- (7) Parking in any manner which obstructs traffic--impounding violation
- (8) Parking in No Parking Zones--impounding violation
- (9) Parking in a fire lane--impounding violation
- (10) Parking on the college campus while under restriction--impounding violation
- (11) Violations of any posted sign--impounding violation
- (12) Obstruction of a trash container--impounding violation
- (13) Obstruction of any crosswalk--impounding violation

Driving

- (1) Disregarding a stop sign
- (2) Disregarding a red light
- (3) Making a U-turn in a block between two intersections
- (4) Making a U-turn at a red light
- (5) Driving on the campus without a driver's license
- (6) Driving in an imprudent manner
- (7) Driving a vehicle into a barricaded area or parking in violation of any barricade or barrier--impounding violation
- (8) Backing into an intersection
- (9) Exceeding the speed limit--20 miles per hour on the streets and 10 miles per hour in parking lots
- (10) Refusal to show driver's license upon request of a college Traffic-Security officer
- (11) Failure to display a proper permit
- (12) Failure to stop or heed other instructions given by a college Traffic-Security officer
- (13) Removing any temporary barricade

4. GENERAL REGULATIONS (continued)

- f. Violation tickets will be issued for infractions of the City of Lubbock ordinances and the State Uniform Traffic Code.
- g. A registrant operating more than one vehicle must register each vehicle separately.
- h. Towing and Impounding System: Any student or employee of the College violating any rule or regulation concerning parking on the campus will be subject to having his vehicle towed away and impounded. A clearance from the Traffic-Security Department must be secured before the vehicle is returned to the operator or owner.
- i. Any person operating a motor vehicle in a manner which endangers life and/or property on the campus of Texas Technological College will be issued a violation ticket for reckless driving. This violator will be restricted from operating a motor vehicle on the campus for a period of at least six months.

NOTICE

- 1. Any student receiving a ticket for any parking violation shall be restricted from parking on the campus for a period of 30 days of enrollment and must report to the Traffic-Security Department either to have the parking sticker removed from his vehicle or to pay a \$2 reinstatement fee. Failure to report within 72 hours constitutes a second violation and the restriction will be 60 days of enrollment or a \$4 reinstatement fee.
- 2. Any student receiving a second ticket for any parking violation shall be restricted from parking on the campus for a period of 60 days of enrollment and should report to the Traffic-Security Department either to have the parking sticker removed from his vehicle or to pay a \$4 reinstatement fee. Failure to report within 72 hours constitutes a second violation and the restriction will be 120 days of enrollment or an \$8 reinstatement fee.
- 3. Upon the issuance of a third ticket, the student's driving and parking privileges will be revoked for a minimum of 6 school months of enrollment. Any violation during the restricted period will subject the student to suspension.
- 4. Any student receiving a ticket and believing this notice is unwarranted may report to the Traffic-Security Department within 72 hours and prepare a notice of appeal to be presented to the Appeals Board.
- 5. No refunds will be issued to any student who has his vehicle restricted from parking on college property.
- 6. Any student found guilty of removing a ticket from any vehicle not belonging to him or in his possession will be subject to disciplinary action and could be suspended from the College for this action.

SAFETY SUGGESTIONS

The pedestrian also must obey traffic regulations for his own safety. Half of all persons killed in traffic are pedestrians.

A pedestrian must not cross the street against a red light; not cross the street in mid-block (jaywalk) within one block of any signal light. Stand on the sidewalk, not in the street when waiting for a signal light to change color.

Don't walk in the street or roadway. Where walking in the roadway is necessary, walk on the left side of the roadway facing oncoming traffic. This permits the pedestrian to see and avoid vehicles.

When walking after dark, wear light colored apparel, preferably white, or carry some light colored object.

After leaving a bus, the pedestrian should proceed to the sidewalk area unless the bus is stopped for a red light; then the pedestrian may cautiously proceed to cross with the green light.

HOW YOU MAY LOSE YOUR PRIVILEGE TO DRIVE ON THE STREETS AND
HIGHWAYS OF TEXAS

Your license give you the privilege of driving a motor vehicle on Texas streets and highways only as long as you do so safely. If you break the driving laws of the State or Cities, or become incapable of driving, your license may be taken away.

The law requires that your license must be automatically suspended if a court finds you guilty of:

1. Killing or injuring anyone while driving.
2. Driving while drunk or drugged.
3. Any violation of the motor vehicle laws for which you could be sent to prison.
4. Hit and run driving.

Your license may also be suspended for as long as one year:

1. If the department has reason to believe you have done any of the four things listed above.
2. If you cause a serious accident while you are driving, or if you fail to make a report to the department of the accident.
3. If you become incompetent to drive.
4. If you are a habitual violator of traffic laws.
5. If your driving record shows that you are habitually reckless, careless or negligent in driving.
6. If you let someone else use your license or make a false statement in your application, or violate a restriction placed on your license.
7. If you drive while your license is suspended, you may upon conviction be placed in jail for as long as six months and be required to pay a fine up to \$500. Upon such conviction, the suspension period will be extended for a like period as the original one.

TEXAS TECHNOLOGICAL COLLEGE
Lubbock, Texas

AGENDA FOR THE JOINT MEETING
OF THE CAMPUS AND BUILDING COMMITTEE AND CAMPUS PLANNING COMMITTEE
TO BE HELD AT 3 P.M. IN THE OFFICE OF THE PRESIDENT
OCTOBER 23, 1964

*B. L.
action*

2862. Dormitory and Dining Facilities (Project CH-Tex-150(D))

Units B and C (H. A. Lott, Inc., \$2,788,420.40 - August 1, 1964)
and \$3,513,215.13 - August 1, 1964)

OK

Streets and Parking Lots (Kerr Construction Company,
\$58,973.40)

passed

Consider the recommendation for a final acceptance
date of September 12, 1964.

2863. Dormitory Expansion

*- want plans + cons - complete study -
+ make specific recommendations -*

Consider the recommendation as expressed in the recommendation
section of the Housing Study as in the Minutes of Meeting No. 227,
page 1612.

Continued

2864. Library

OK

Consider the recommendation to complete the south portion of the
basement for an estimated cost of \$87,337, to be paid from Building
Funds of 1949, and to engage Pitts, Mebane, Phelps & White to super-
vise the completion at a fee of 1 1/2 percent.

(Pitts, Mebane, Phelps & White have been paid for the design of
the facilities at the rate of 3 1/2 percent.)

passed

2865. Other Items

Southwestern Public Service Company Request

Consider the recommendation that the request not be granted on
the basis of beneficial results to the College but that it be
considered from the standpoint of public relations which normally
do not come under the purview of the CPC in such instances.

*OK - subject to satisfactory
agreement, at no cost to College,
have College assume,*

passed

2866. Parking

Consider the recommendation that the ports of entry be installed
as of September 1, 1965, in keeping with the report which is at-
tached to the Minutes of Meeting No. 227, page 1613)

*protect everything
with closed
more info
report
later*

*But study building and not want too late to
restrict future.*

Includ until next meeting -

2867. Parking Lots (Kerr Construction Company, \$23,534.75)

A. West Engineering Building

OK Consider the recommendation for a final acceptance date of September 2, 1964.

B. North of New Women's Dormitory, Unit B

OK Consider the recommendation for a final acceptance date of September 2, 1964.

2868. Utilities

OK Consider the recommendation that additional space be granted to the City of Lubbock to expand the electrical substation to the rear of the Meats Laboratory in order to provide the additional needed capacity now and in the future.

TEXAS TECHNOLOGICAL COLLEGE
Lubbock, Texas

MINUTES OF THE CAMPUS PLANNING COMMITTEE

Meeting No. 228 October 23, 1964

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 October 23, 1964, in the Office of the President.

Members of the Building Committee present were Mr. Wilmer Smith, Chairman, and Mr. Harold Hinn. Other members of the Board of Directors attending were Mr. R. Wright Armstrong, Mr. Alvin R. Allison, Mr. Manuel DeBusk, Mr. Roy Furr, Mr. Charles D. Mathews and Mr. J. Edd McLaughlin.

Members of the Campus Planning Committee present were Mr. Nolan E. Barrick and M. L. Pennington. Others present from the College were President R. C. Goodwin, Dr. W. M. Pearce, Mr. Robert L. Mason, Mr. O. R. Downing, Mr. John G. Taylor and Mr. R. B. Price.

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 at the meeting on October 24, 1964, will follow that of the Campus and Building Committee for each item.

2862. Dormitory and Dining Facilities (Project CH-Tex-150(D))

Units B and C (H. A. Lott, Inc., \$2,788,420.40 - August 1, 1964
and \$3,513,215.13 - August 1, 1964)

Streets and Parking Lots (Kerr Construction Company,
\$58,973.40)

Approved a final acceptance date of September 12, 1964.

(The Board of Directors approved.)

2863. Dormitory Expansion

Stipulated that a complete study be made, including the pros and cons, and resulting in specific recommendations.

(The Board of Directors approved the continuation of the study.)

2864. Library

Approved completion of the south portion of the basement at an estimated cost of \$87,337, to be paid from Building Funds of 1949 and to engage Pitts, Mebane, Phelps & White to supervise the completion at a fee of 1½ percent.

(The Board of Directors approved.)

2865. Other Items

Southwestern Public Service Company Request

Approved the request of the Southwestern Public Service Company for an easement across the campus, at no cost to the College, subject to a satisfactory agreement which would hold the College harmless.

(The Board approved the recommendation with the added stipulation that the Southwestern Public Service Company get the Legislation to cover the easement.)

2866. Parking

Tabled the recommendation until the December meeting.

(The Board approved the continuation of the study.)

2867. Parking Lots (Kerr Construction Company, \$23,534.75)

A. West Engineering Building

Approved the final acceptance date of September 2, 1964.

(The Board of Directors approved.)

B. North of New Women's Dormitory, Unit B

Approved the final acceptance date of September 2, 1964.

(The Board of Directors approved.)

2868. Utilities

Approved additional space for the City of Lubbock to expand the electrical substation to the rear of the Meats Laboratory in order to provide additional needed electrical capacity now and in the future.

(The Board of Directors approved.)

M. L. Pennington
Chairman

The meeting adjourned at 4:15 p.m.

TEXAS TECHNOLOGICAL COLLEGE
Lubbock, Texas

MINUTES OF THE CAMPUS PLANNING COMMITTEE

Meeting No. 229 November 12, 1964

A meeting of the Campus Planning Committee was held at 1:30 p.m. on November 12, 1964, in Room 120 of the Administration Building. Mr. Wilmer Smith, Chairman of the Campus and Building Committee of the Board of Directors, was present. Members present were Mr. E. J. Urbanovsky, Mr. Nolan E. Barrick and Chairman M. L. Pennington. Others present were Mr. O. R. Downing and Mr. John G. Taylor.

2869. Approval of Minutes

On motion by Mr. Urbanovsky, seconded by Mr. Barrick, the Minutes of Meetings Nos. 226, 227 and 228 were approved.

2870. President's Approval of Minutes

President Goodwin approved the Minutes of Meeting No. 226 on October 20, 1964, Meeting No. 227 on November 5, 1964, and Meeting No. 228 on October 30, 1964.

2871. Agricultural Facilities (CPC No. 93-64)

Horse Facilities

The recommendation from the School of Agriculture is in the process of preparation.

2872. Architects' Rates (CPC No. 94-64)

It was agreed that an attempt will be made to secure typical architects' contracts from other state institutions and to make a study for possible recommendation in connection with those used by Texas Tech.

2873. Bookstore Addition (CPC No. 69-62) (H. A. Padgett, Jr., \$238,499 - August 1, 1964)

A. Construction Progress

A small number of mechanical items remain to be done, and the project architect said that he would attempt to get them done this week.

B. Solar Screen

Progress

The solar screen is in place and is acceptable.

2874. Campus Lights for Library, Student Union, Music Building, Horn Horn, Knapp, Drane, Doak and Weeks Area (CPC No. 95-64)

Progress

Mr. Downing reported that 53 of the lights are installed and the service has been completed to 24 of them. There are 18 lights to be installed and, with good weather, he thinks the job can be finished by Christmas.

2875. Chemical Engineering and Nuclear Reactor Building (CPC No. 7-58)

The AEC granted the request for termination of construction permit No. CPRR-60 without prejudice to the filing of a new application at a later date.

Attached to and made a part of the Minutes are the letter of October 30, 1964, the Notice of Termination of Construction Permit and the Termination of Construction Permit.
(Attachment No. 539, page 1623)

2876. Chemical Research Building (CPC No. 87-64)

Mr. Barrick reported that he has been studying the site, as requested, but still has some doubts of its adequacy. However, he is developing the site in keeping with the information available to date.

The studies by the architects indicate that the budget of \$1,200,000, assuming 100 percent matching from the National Science Foundation, will provide 27,000 net square feet of usable or assignable space. The nonassignable space usually requires about 100 percent more space. So, for 27,000 square feet of assignable space, the total project would include about 54,000 square feet.

Dr. Dennis has reduced his original request of 54,000 net assignable square feet to 32,000 square feet and is still working to reach the 27,000 feet which can be covered.

Mr. Taylor has just returned from a meeting in New York with the National Science Foundation people, in which the statement was made by the NSF people that they will make a planning grant to aid in the development of the project and to help the institutions include items which will be considered by the NSF. NSF will make a reservation of funds but will not approve a grant until the final plans have been presented. The NSF has found that grants on preliminary plans have resulted, when the bids are in, in less project than originally contemplated, with the result that the funds have not all been used in an acceptable manner.

A copy of Mr. Taylor's report is attached to and made a part of the Minutes and contains some very pertinent information.
(Attachment No. 540, page 1624)

It was agreed that an application should be made for a planning grant. Mr. Barrick and Mr. Taylor of the college staff and Mr. Bob White of the project architects were requested to pursue the possibilities as expeditiously as possible. It was felt that the request for the grant would be in keeping with the instructions from the Board of Directors, and that there should be as little delay as possible.

2877. Classroom-Office Building (New) (CPC No. 79-63)

Status

Mr. Bob White, representing the project architects, is on the campus today and spent the morning with Mr. Barrick and Mr. Urbanovsky. They went over the prospective site, and Mr. White has been asked to study the area outlined by them and to recommend the precise site.

Mr. Barrick said that the program has been developed, and the architects will submit the schematics as soon as they are prepared. Only a little bit of information is needed on equipment, and it will be in shortly.

2877. Classroom-Office Building (New) (CPC No. 79-63) (continued)Status (continued)

Only the schematics are needed for an application for a grant under the College Facilities Act. The final application form has not yet been received from the Texas Commission on Higher Education, but it is just about due. As soon as the schematics and the application form are available, it is assumed that the application for a matching grant can be made.

2878. Dormitory and Dining Facilities (Project CH-Tex-150(D))A. Unit A (CPC No. 63-61) (H. A. Lott, Inc., \$2,764,540 - August 1, 1964)Year's GuaranteeStatus

The contractor is making some progress on correcting the deficiencies. He has had some difficulty in getting to all areas to make the corrections. The incinerators are still giving a bit of trouble.

B. Units B and C (CPC No. 72-62 and 73-62) (H. A. Lott, Inc., \$2,788,420.40 - August 1, 1964, and \$3,513,215.13 - August 1, 1964)1. Construction Progress

There are still miscellaneous, small items which the contractor needs to correct, primarily the elevators and incinerators.

2. Walks, Drives and Parking LotsWalks (Frank Hodges, \$37,139)

It was agreed to recommend the final acceptance date of November 10, 1964.

2879. Dormitory Expansion

A great deal of time was devoted to the housing study. The report developed for the last meeting of the Board was reviewed. It was most unfortunate that the report did not reach the members in time for study before the meeting.

A resumé of the major topics of discussion is as follows.

There was some doubt that a long-range housing plan should be prepared independently of the long-range academic study, as the two would seem to go somewhat hand in hand. The housing plan could affect the academic plan and vice versa. If a housing plan must be developed without waiting for the other, it would have to be very flexible and would perhaps be premature.

If the Board wishes for the CPC to move, and it seems to do so, perhaps there could be a short- and a long-term plan. The short-range plan might be developed in such a way that it would not adversely affect the long-range plan. A good long-range plan would require months of study.

If there is a short-range plan, the first consideration would probably be women's housing and, after that, housing for men. There will be insufficient housing for women and men next fall. What to do is a most pertinent question.

2879. Dormitory Expansion (continued)

If there is a short-term plan, the most expeditious means of financing probably would have to be used. Ideally, the most economical method should be sought, and it would include private capital and the experience of other schools. The financing could be a part of a long-range study.

Some guidelines on the number or percentage of students to be housed would be most helpful. If, for example, 50 percent were to be housed, plans could be made far enough in advance to do so. If all eligible students were to be housed, the arrangements and timetable could be developed. However, even 50 percent of the students would require a great deal of financing, and the housing of all eligible students would require extremely heavy financing and probably would force an increase in board and room rates. It would not be beyond the realm of possibility to price the residence halls out of business.

Too much housing (whatever that might be) could jeopardize the system, as it is possible for unforeseen events to occur. For example, the report of the Governor's Committee on Education Beyond the High School could place Texas Tech in the proposed university system, and the enrollment could be limited or the enrollment could be limited by other means, such as the faculty.

The Board's policy on housing is not entirely clear, and an interpretation would be helpful.

If possible, it would be good, from a morale standpoint, to be a bit deficient in housing for men in order not to have to force some of them to live in the halls and thereby have unhappy residents.

Off-campus housing offers some intriguing possibilities. Each year, more private capital becomes available, and it probably should be investigated very thoroughly. Also, the College could provide housing off campus. It probably would be expensive but less now than in the future, and could provide means to keep the College more centrally located in the future. There is little doubt that in the years ahead, any space which can be saved for academic buildings will be most useful.

If it is necessary to construct additional facilities with the least delay, a housing complex located to the west of Flint Avenue would seem to offer the best possibilities.

It was agreed to continue the study, to develop criteria for implementation and to have a separate meeting.

2880. Gin--Experimental (CPC No. 88-64)

A group is to be here on November 16, 1964, at 1:30 p.m. to go over possible sites. Mr. Smith and Mr. Hinn of the Building Committee of the Board of Directors both plan to be present.

2881. Housing (Other) and Food Service

- A. Consolidated Food Service Unit for West, Sneed, Bledsoe and Gordon Halls - November 1, 1964, and Central Food Facilities - September 1, 1964 (CPC No. 74-62)
(J. R. Francis, General Contractor, Inc., \$1,480,157.10)

1. Central Food Facilities

Mr. Barrick reported that the contractor is correcting the punch list now, and that they are trying to get

2881. Housing (Other) and Food Service (continued)

- A. Consolidated Food Service Unit for West, Sneed, Bledsoe and Gordon Halls - November 1, 1964, and Central Food Facilities - September 1, 1964 (CPC No. 74-62)
(J. R. Francis, General Contractor, Inc., \$1,480,157.10)

1. Central Food Facilities (continued)

Mr. Dana here next week to make a final inspection on the equipment and to instruct Mrs. Bates' personnel in the use of the equipment.

2. Consolidated Food Service UnitConstruction Progress

Mr. Barrick reported that a prefinal inspection is going on at the moment. He and the project architect think that it is about ready for the final inspection and, if so, the final inspection will be made in most of the areas in the next day or so.

B. Housing Office (CPC No. 89-64) (Estimated Cost \$33,025)Progress

Mr. Barrick reported that the latest restudy has been made and that he will send the plans over for examination.

2882. Infirmary Addition (CPC No. 85-63) (C. M. Pharr Construction Company, \$47,888 - September 1, 1964)Status

Mr. Barrick reported that the project is almost complete. A very few small items remain to be done. It may be necessary to request the contractor to make the final completion during the Christmas holidays when he can have access to all spaces.

2883. Killgore Beef Cattle Center (CPC No. 75-62) (Walter E. Wirtz, \$378,839)

As requested at the last meeting, the Chairman wrote Stout Steel Builders, Brown-McKee, Inc., and Stewart Engineering Equipment Company. The same letter was sent to each of the three firms. A copy of the Chairman's letter and the reply from Stout Steel Builders are attached to and made a part of the Minutes. (Attachment No. 541, page 1625)

A telephone call was received from Stewart Engineering Company on November 9, 1964, and a report of the conversation is attached to and made a part of the Minutes. (Attachment No. 542, page 1626)

Dean Thomas is requested to coordinate the effort to get the project completed and recommended for final acceptance as soon as possible.

2884. Library (CPC No. 12-58)Completion of South End of Basement

Mr. Janeway has requested that he be notified far enough in advance of the construction to clear the area.

Mr. Barrick has notified the project architects of the Board's wishes in the completion of the south portion of the basement, and the architects have indicated their acceptance, with the understanding that it would be handled at a time when the major projects are under way.

2884. Library (CPC No. 12-58) (continued)Completion of South End of Basement (continued)

It was the consensus that the work could be done under the original contract with the architects.

2885. Museum (CPC No. 65-61)

The architects have prepared the Master Plan of the Museum Facilities in conjunction with the West Texas Museum Association, and copies have been provided for the CPC.

A meeting between the West Texas Museum Association Building Committee and the CPC was requested on Tuesday, November 10, 1964. However, due to the illness of the Chairman and the fact that two of the three members of the Museum Committee could not attend, the meeting was postponed.

of Museum group,

According to newspaper reports, the project has been presented to the Museum Board and perhaps other groups, and has been approved.

2886. Other ItemsA. Southwestern Public Service Company Easement

Mr. Mason has notified the Company of the Board's approval, subject to a satisfactory agreement, which is being prepared at the moment.

B. CPC Project Numbers

It was agreed to use project numbers, as prepared by Mr. Taylor, and to commend Mr. Taylor for the development of the system. It was agreed that the numbers would be used in the Minutes of this meeting. The list of project numbers is attached to and made a part of the Minutes. (Attachment No. 543, page 1627)

C. Revised Procedures

1. The Chairman said that he would try to move the schedule up a week by providing the agenda one week before meetings and to have the last CPC meeting one week before the Board meeting if at all possible.
2. The CPC must make specific recommendations.
3. As many recommendations as possible must be made in writing.

2887. Parking

A great deal of time was devoted to various philosophies and aspects of on- and off-campus parking, the pros and cons of various procedures, problems of regulations and enforcement, aesthetic and recreational aspects in contrast to the utilitarian aspects, etc.

It was agreed that a separate meeting probably should be devoted entirely to the parking problem, and that the advice and counsel of the members of the College Traffic and Security Commission should again be sought.

2888. Traffic-Security Facilities (CPC No. 90-64)Construction Progress

The solar screen is the last item to be installed, and it will be completed next week.

2889. UtilitiesSubstation at Meats Lab (CPC No. 96-64)

The Board of Directors, at the last meeting, authorized the necessary space adjacent to the present substation behind the Meats Laboratory for needed facilities, and Mr. Mason has notified the City of the action.

The City officials who must plan for adequate facilities need to be posted on the long-range plans and developments of the College, in order that they may be prepared to supply the necessary utilities. It would be well for the CPC to meet with Mr. McCullough and his staff at the Plot Plan Room at a convenient time to all.

M. L. Pennington
Chairman

The meeting adjourned at 4:35 p.m.

1623

Campus Planning Committee
November 12, 1964
Attachment No. 539
Item 2875

UNITED STATES
ATOMIC ENERGY COMMISSION
Washington, D. C. 20545

IN REPLY REFER TO:
Docket No. 50-159

Oct. 30, 1964

Texas Technological College
Lubbock, Texas

Attention: Dr. R. C. Goodwin
President

Gentlemen:

Pursuant to your request dated September 17, 1964, the Atomic Energy Commission has terminated Construction Permit No. CPRR-60 without prejudice to the filing of a new application at a later date.

A copy of the termination of the permit is enclosed. Also enclosed is a copy of the related notice which has been submitted to the Office of the Federal Register for filing and publication.

Sincerely yours,

/s/Roger S. Boyd

Roger S. Boyd, Chief
Research & Power Reactor Safety Branch
Division of Reactor Licensing

Enclosures:
As stated above

AIR MAIL

UNITED STATES ATOMIC ENERGY COMMISSION

DOCKET NO. 50-159

TEXAS TECHNOLOGICAL COLLEGE

NOTICE OF TERMINATION OF CONSTRUCTION PERMIT

Please take notice that Texas Technological College having requested cancellation of the permit authorizing construction of a 10-kilowatt, pool-type nuclear reactor on the College's campus in Lubbock, Texas, the Atomic Energy Commission has granted the request and has terminated Construction Permit No. CPRR-60 without prejudice to the filing of a new application at a later date.

For further details, see a copy of the request dated September 17, 1964, on file at the Commission's Public Document Room, 1717 H Street, N. W., Washington, D. C.

For the Atomic Energy Commission

/s/Roger S. Boyd

Roger S. Boyd, Chief
Research & Power Reactor Safety Branch
Division of Reactor Licensing

Dated at Bethesda, Maryland
this 30th day of October, 1964.

UNITED STATES
ATOMIC ENERGY COMMISSION
Washington, D. C. 20545

TEXAS TECHNOLOGICAL COLLEGE

DOCKET NO. 50-159

TERMINATION OF CONSTRUCTION PERMIT

NO. CPRR-60

In accordance with the request dated September 17, 1964, Construction Permit No. CPRR-60 issued to Texas Technological College for the construction of a 10-kilowatt, pool-type nuclear reactor on the College's campus in Lubbock, Texas, is hereby terminated without prejudice to the filing of a new application at a later date.

For the Atomic Energy Commission

/s/Roger S. Boyd

Roger S. Boyd, Chief
Research & Power Reactor Safety Branch
Division of Reactor Licensing

Date of Issuance: Oct. 30, 1964

Campus Planning Committee
November 12, 1964
Attachment No. 540
Item 2876

REPORT ON SEMINAR
PLANNING FOR COLLEGE AND UNIVERSITY FACILITIES
Sponsored by Walter Kidde (pronounced "Kiddie") Constructors, Inc.
At the Sheraton-East Hotel, New York City, Friday, November 6, 1964

Over 100 people attended the seminar. The welcome was made by Mr. George G. Walker, President of Electric Bond and Share Company, New York City, the principal company of Walter Kidde Constructors, Inc. The moderator, Mr. Ronald W. Haase, is an architect with Educational Facilities Laboratories, Inc., New York City, connected with the Ford Foundation.

The first portion of the seminar opened with the presentation by Mr. Edwin F. Hallenbeck, Director, Office of Institutional Research and Planning, University of Rhode Island. His subject was "Organization of a Planning Process for Expansion." He covered very thoroughly, in a talk and by use of audio-visual aids, how the building programs are planned and administered in Rhode Island in order to get the most for their dollar.

Mr. Hallenbeck showed some slides of campuses where instructional buildings for students are kept to a four-story level. However, they have gone to ten or more stories for faculty offices and service areas and have planned very carefully the space between buildings. Following is an outline of their planning procedures: The entire institution must be considered in planning. The philosophy, objectives and goals must be carefully determined and then, to implement the program, he recommends five steps: (1) Develop the programs, (2) Develop the organization, (3) Determine personnel very carefully, (4) Develop the plans for required facilities and (5) Plan how to finance these facilities.

To do this, every institution must have a long-range plan.

Recommended building project schedule:

<u>Step No.</u>	<u>Function</u>	<u>Months</u>
I	Need Analysis	3
	Study and Commitment	3
	Programming	3-6
II	Secure Architects	2
III	Preliminary Design Study	2-3
	Basic Drawing Outline	3
	Working Drawings & Specifications	6-8
IV	Bidding	1-2
	Awarding Contract	1
V	Construction	15-18
	Occupancy	1

TOTAL: Four years for most college buildings

Programming - Very important - Translating academic needs to the architect.

Purpose of project:

Space requirements - net square feet (add corridors, service areas, etc., later).

Kind, quality of furniture and equipment. (Do this early.)

Relationship of areas within building.

Relationship to other buildings and campus as a whole.

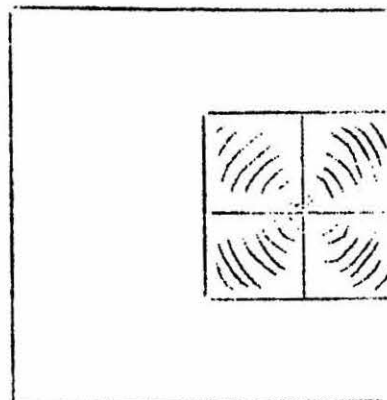
Here Mr. Hallenbeck recommended a study of the publications list prepared by Educational Facilities Laboratories, Inc.

Classrooms - It was recommended that classrooms be built so that faculty can change classrooms from large to small easily, or vice-versa, with very little effort. It was pointed out that there is more and more need of the small individual study or seminar room. With some careful planning, large classroom areas can be developed that could be broken up into smaller seminar areas by the faculty member without too much trouble. In other words, we need to look toward more flexibility in our classroom spaces.

Faculty Office Space - Mr. Hallenbeck stated that they have found that small individual study or seminar space, secretarial and office space, along with faculty offices, can be worked in together very easily, possibly in a central area of buildings, with medium-sized, 25 to 50 capacity classrooms and 50 to 100 or more capacity classrooms on each side of this area.

Mr. Hallenbeck pointed out the problem which all institutions face, and that is the tendency to build facilities for the present faculty. He pointed out that all facilities should be designed for the future. This can be done by careful planning and building facilities with a certain amount of flexibility which may be provided in several ways with flexible, movable partitions (not the folding door kind but non-load-bearing walls which can be moved without too much expense). Mr. Hallenbeck recommends something like the following drawing, wherein one can have a large classroom building with possibly four large classrooms centered in a permanent area with all of the latest audio-visual aids to help in the large classes. The rest of the building can be designed with the non-load-bearing partitions which give the ability to create small classrooms, larger classrooms, seminar space or even flexible laboratory and research space.

Flexible area
non-load-bearing
partitions----->



----- Permanent
classrooms

Residence Halls - Rhode Island has developed a large residence hall complex. They have constructed some of the complex and will add to it as the years go by. They have just gone through a six-months strike which will cause some of the houses in their complex to be completed about four months after the beginning of the next school year. The portion of the halls which has been built was financed with private capital, although they started with HHFA and were able to sell their bonds on the open market. I did not get the actual interest rate. Mr. Hallenbeck thinks they will have to put out a brochure pretty soon about this complex, because they are getting numerous requests for information. The housing complex is made up of cottages holding 40 to 50 students, with two or three cottages making up what they call a "house." The complex will have a large central kitchen-dining area and its own commons or student union center. I believe he said they will have a total of about 13 houses, and that the portion which has been completed has cost \$4,400 plus per student with a square foot cost of \$20.35, nonair conditioned. The cottages are four floors with carpeting. Each one has a lounge on the ground floor with a separate study hall, which he said is being used for some individual study and seminar classes though, as we all realize, we are not supposed to do this with HHFA funds. The cottages are constructed without urinals so they can put women in

any of the halls they desire, or use the facilities for seminars, workshops and other groups during the summer and not worry about where to put the women and the men. They are going to electric heat in that area, and evidently there has been quite a controversy over the method of heat in the New York and Rhode Island areas.

Rhode Island is providing quite a number of single student rooms and in many of the cottages, they have developed a complex of four individual rooms with a common living-sitting room and two small baths, one with a shower and one with a tub. Some of the slides shown of the rooms were of two-student rooms. The furniture and storage area appeared to be only half as good as ours, and the rooms do not have the washbasin. Their rooms looked rather bare to me.

During the question and answer session, Mr. Hallenbeck urged all colleges and universities to consider the use of electric heat in the future, because of its ease of transmission and cleanliness.

The next person on the panel was Dr. Howard E. Page, Division Director of Institutional Programs, National Science Foundation, Washington, D. C., who spoke on "Government Loans and Grants" and, particularly, what National Science Foundation was doing in the grant area. Dr. Page distributed the attached list of federal agencies with the individuals who should be contacted regarding certain questions and problems. This should be very helpful to many people on our campus. Dr. Page summarized the various Government departments and the areas in which they had funds for aid to education. He explained that out of some 2,000 colleges and universities, 100 gave most of the Ph.D.'s and these 100 get most of the National Science Foundation funds. He pointed out that they must use their money where the schools have shown that they have the researchers and staff to carry on the kind of science and research that NSF needs. This keeps them from distributing their funds throughout the country as President Johnson would like. He pointed out that the National Institute of Health does not have this problem and has been able to distribute their funds countrywide. He thinks the Title II, Graduate Academic Facilities, of the College Facilities Act will tend to distribute some federal funds nationwide, whereas most of it has been going to the East Coast and the West Coast. He mentioned that he is sure these funds would be sent to other areas, such as Houston, Texas. The Director of Title II and the committee that is to help formalize the method of distributing grants under Title II have just been appointed.

During the noon luncheon address by Dr. Samuel Halperin, Director of Legislative Services, U. S. Office of Education, Washington, D. C., Dr. Halperin stated that he hoped the funds provided under Title II, Graduate Academic Facilities, would be available for distribution during the middle of the spring semester.

Dr. Page mentioned that some schools may not know that HHFA makes loans for planning. The Government wants to accumulate a large number of plans so that if the country should find itself in an economic depression or recession, the Federal Government can provide funds for these plans and get construction started without delay. Usually the institution needs to certify that it will build within five years of the completion of the drawing of plans and specs. However, the Federal Government probably would be willing to go along with a longer period of time. In other words, the Government wants the plans stockpiled.

Dr. Page next talked quite a bit about NSF. He said that by next January, NSF would not make a grant until the final plans and specs are ready for its review. It will, however, make a planning grant and will reserve the balance of the funds for the project, subject to approval or disapproval of the final plans and specs. This does not mean that they will grant a dime in matching funds outside of the funds already granted for planning. It simply means that they will encumber funds pending the final approval. He says that NSF is averaging only 25 percent in matching funds because many of the projects for which they are asked to provide matching funds have facilities which they will not approve. He was very careful in stating that they will not attempt in any way to tell you what you can or cannot build. However, when they receive the final plans and specs, they have the right to delete any

portion of the project which they do not feel comes under their needs or requirements. He pointed out that in the past they have been asked to finance many research facilities, particularly in chemistry, and when the facilities were completed, it was discovered that the buildings did not have adequate ventilation.

Another reason that NSF wants to wait until final plans and specifications are drawn is that many times in the past, colleges have been given dollars to finance a project and then when bids were taken, the project was way out of the money. The college ended up building something NSF did not approve. Dr. Page mentioned the fact that NSF and the other agencies have architectural and engineering departments that would be more than happy to work with the institutions' architects in the early stages of planning. They will not tell them what to do but can give some good ideas and help in methods to bypass pitfalls that other institutions have fallen into. From what Dr. Page told us, we probably should send in our application for a planning grant for the Chemistry Research Building, and then have some chance of getting matching funds for the building itself. However, it looks as if we will be lucky to get something between 25 percent and 50 percent. A question was asked Dr. Page about undergraduate science facilities, and he stated that NSF does not plan to aid in construction of undergraduate science facilities except in a very few cases. A question was asked of Dr. Page about the use of funds provided by the College Facilities Act, and he stated that they could be used for the building, the utilities to the building and possibly parking. The question on parking had not been decided.

In closing, Dr. Page said that NSF does have some participating funds for science facilities that are not restricted to any set percent. These generally are large grants in the millions of dollars to build the better science facilities. He mentioned that NSF provided several million dollars for one project and the school has put up about 18 million.

The luncheon speaker, as I mentioned earlier, was Dr. Samuel Halperin, Director of Legislative Services, U. S. Office of Education, Washington, D. C., and his talk was on "The Federal Role in Education Legislation."

Dr. Halperin summarized what he thought higher education could look forward to during the coming legislative session. He said President Johnson was going to stress help for the aged and all kinds of aid to education. He mentioned that a bill probably will come up to provide funds for a faculty exchange program between colleges in the United States, similar to the exchange of faculty between foreign countries and the United States. An example would be to send a noted faculty member from Harvard or Yale to a small college in the South or to send faculty members from a small struggling college to one of the larger noted schools for Ph. D.'s or other help. They would then return to their institutions and help to strengthen them. He thinks there will be more help for the poor student so that finances will not determine which high school graduates will get a college education and so the country will not lose the fine, upstanding high school graduates who are now not going to college because of finances.

The first afternoon session was headed up by Mr. Robert L. Geddes, partner in Geddes, Brecher, Qualls, Cunningham - Architects, Philadelphia, Pennsylvania. His subject was "Compatibility of Campus Architecture." Mr. Geddes showed a number of slides picturing various types of architecture found upon college campuses throughout the country and discussed the formal versus the informal type of campus layout. He believes that more colleges and universities are favoring the informal over the formal campus layout. (I believe our campus would be classified as informal, using Mr. Geddes' definitions.)

Next, Mr. Geddes talked about the three important things that need to be determined in any project. He drew these in the form of a triangle with the first point being total cost, the second point being quantity and the third point being quality. He says the college and university personnel must determine one and two, and let the architect determine number three, quality of materials and services.

Mr. Geddes pointed out that we are now spending more and more on services and in some cases, as much as one-half of the cost will go into services. (Mr. Geddes' firm has won many awards on their designs, particularly for research facilities.)

Following are some pointers layed out by Mr. Geddes:

1. Recognize the above triangle.
2. Prepare capital budgets--long-range, five years and annual.
3. Prepare with the architect a complete program for each building. This should include the need, activities to be in the building and the space required.
4. Maintain harmony of materials and harmony of scale.
5. Plan and build for groups of buildings.

The final presentation was by Mr. Frank L. Whitney, President, Walter Kidde Constructors, Inc., New York City, and he talked on "Designing and Building Educational Science and Research Facilities." Mr. Whitney pointed out that his firm has designed and done quite a bit of study and construction of research facilities for industry. He thinks that what they have learned will help colleges and universities in their planning and designing of similar facilities. Mr. Whitney said electrical and mechanical facilities must be flexible. Next, facilities must be programmed, and he recommends a series of seminars, with an agenda, including all of the researchers who will use the facilities. He pointed out that in 1955, electrical and mechanical services in research and science facilities were costing 38 percent of the total cost. In 1963 these costs had risen to 51.5 percent. He next discussed what they consider the research area and how they get their flexibility. He says that they allow 6 to 8 feet in width for each dry-type laboratory for a single researcher plus workbenches, or 10 to 11 feet for a wet-type laboratory. Someone asked him what he meant by a wet module lab, and he explained that this would be a lab where nearly all services such as gas, water, compressed air, electricity, etc., are piped in. A dry module lab would be one where you normally have only electrical services, such as in an electronics lab. He recommends that all colleges and universities consider unit systems in their utilities. He stated that industry is no longer continuing expansion of the old boiler plants. This gives industry greater flexibility, and he thinks it will also do the same for colleges and universities.

Lumination - He stated that they are providing 100-foot candles for industry.

The Ratio of Assignable Area - He said this should run between 50 percent and 60 percent. If over 60 percent or under 50 percent, we had better take another look.

Gross Space per Researcher - He said this should be 400 square feet. If it is under 200 square feet, you are crowded.

Flexibility of Buildings - Mr. Whitney said that industry has found each building, even though it is in a complex, must be easy to expand. He pointed out that it is easier and more economical to expand a present building than it is to build a new building. The more separate buildings you have, the greater your communication problem.

Cost of a Laboratory - Mr. Whitney recommends that cost should be between \$40 and \$50 per square foot.

In building research and scientific facilities, Mr. Whitney urged that too much emphasis not be put on any one item. They are all important.

Single Versus Multiple Stories - Mr. Whitney pointed out that they have found a one-story research facility is the cheapest, and that the roof is less costly than the floor for the second floor and offsets the cost of more roof area. Air conditioning can be piped cheaper horizontally than it can vertically, at least up to three stories.

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Cost of Land - Mr. Whitney stated that one can spend \$60,000 per acre and still build a one-story building cheaper than a multiple-story building.

Mr. Whitney's firm made available a booklet on planning for industrial research facilities, and I was able to get two copies. Mr. Pennington has one copy, and a copy has been sent to Mr. Barrick.

The seminar closed at 5 p.m. with a summary by the moderator, Mr. Ronald W. Haase.

John G. Taylor
Business Manager

<u>Agency</u>	<u>Title of Program</u>	<u>Contact Man & Phone*</u>	<u>Program**</u>
National Science Foundation	1. Science Facilities	Dr. J. M. Leise, 343-7717	Facilities for graduate-level research & research training
	2. Science Development	Dr. Denzel D. Smith, 343-6538	Proposals may include a request for science facilities
	3. Oceanographic Facilities	Dr. Richard G. Bader, 343-7739	Vessels & other specialized facilities
	4. Specialized Facilities Program in Engineering	Dr. Israel Warshaw, 343-5961	Specialized facilities
	5. Specialized Facilities in the Social Sciences	Dr. Murray Aborn, 343-6463	Specialized facilities
	6. Facilities and Special Programs in the Biological & Medical Sciences	Dr. J. T. Spencer, 343-6525	Specialized facilities
National Institutes of Health	1. Health Research Facilities Branch	Dr. Francis L. Schmehl, 496-5635	Health-related research facilities
	2. Mental Retardation Program, National Institute of Child Health & Human Development	Dr. Francis L. Schmehl, 496-5635 Dr. Donald W. Robinson, 496-2533	Large multidisciplinary centers for research in mental retardation
National Aeronautics & Space Agency	Research Facilities	Mr. Donald C. Holmes, 382-8500	Facilities for NASA-oriented research
Office of Education	1. Title I	Mr. Chalmers G. Norris, W02-4457	Undergraduate academic facilities
	2. Title II	Dr. Peter P. Muirhead, W02-6711	Graduate academic facilities
	3. Title III	Mr. Joseph A. Perkins, Jr., W02-4791	Loans for academic facilities
Housing & Home Finance Agency	1. Public Works Planning Advances Program	Mr. Henry Brooks, DU2-3304	Funds advanced to state or public bodies for planning facilities. Repayable later.
	2. Public Facilities Loan Program	Mr. Henry Brooks, DU2-3304	Up to 100% of the cost of any public facility may be borrowed. Borrowed money may be used to match other Federal programs.
Department of Agriculture	Research Facilities Program for the State Agriculture Experiment Stations	Dr. T. C. Byerly, DU8-4423	Proposals evaluated by Dept. of Agriculture, awards allocated to the states by formula.

Campus Planning Committee
November 12, 1964
Attachment No. 541
Item 2883

TEXAS TECHNOLOGICAL COLLEGE
Lubbock, Texas

Office of the Vice President
for Business Affairs

October 17, 1964

Mr. Jimmy Stout, President
Stout Steel Builders
P. O. Box 48
Tulia, Texas

Dear Mr. Stout:

Subject: Killgore Beef Cattle Center

At the last meeting of the Campus Planning Committee, I was requested, as Chairman of the Committee, to ask you to bring the project to a conclusion as soon as possible.

Will you please let me know when you think you can finish the project. If you can expedite it, we shall be most grateful to you.

Very sincerely yours,

M. L. Pennington
Vice President for
Business Affairs

MLP:g(b)

STOUT STEEL BUILDERS

Distributor for
MESCO
Metal Buildings

Tulia, Texas
North Hiway 87
P. O. Box 48
Phone WY 5-3149

Lubbock, Texas
2317-B-W-34th St.
Phone SW 5-7394

October 21, 1964

Mr. M. L. Pennington
Texas Technological College
P. O. Box 4610
Lubbock, Texas

Dear Mr. Pennington:

We have completed our portion of the Killgore Beef Cattle Center. We returned to the job to sew up some loose ends.

We visited with Dr. Ellis at the job site and to our knowledge, everything is satisfactory.

Very truly yours,

Stout Steel Builders, Inc.

/s/Jim Stout

Jim Stout, President

Copies to Mr. Urbanovsky, Mr. Barrick, Mr. Mason, Mr. Downing, Mr. Taylor, Dean Thomas and Dr. Ulich 10-24-64.

Campus Planning Committee
November 12, 1964
Attachment No. 542
Item 2883

FOR RECORD PURPOSES ONLY

Mr. Sherman of the Stewart Engineering Company called on November 9, 1964, from Richardson and apologized for not answering the October 17, 1964, letter. However, he said they have been attempting to clean up the project.

He said there is one small matter they can't clean up, at the moment, but since the CPC meeting, they have sent an engineer to the project to see why the system was not working smoothly. They found that some pieces had not been properly installed in the equipment. The needed changes were called to Dr. Ellis' attention, and he said that he would get it done. The installation of the equipment was not the responsibility of the Stewart Engineering Company.

He said that on October 27, 1964, Dr. Ellis wrote them a letter stating that the equipment is now working smoothly.

The Stewart Engineering Company still feels that the gates on the bottom of the equipment are not working as satisfactorily as they should be. They went to the manufacturer, American Monorail, and asked for some modifications. A telegram was received from American Monorail on November 5, 1964, stating that parts were scheduled for shipment on November 20, 1964.

Since the time seemed a bit unreasonable, Mr. Sherman called the president of American Monorail last Friday and asked if they could ship earlier. The president said that he would see if he could. Mr. Sherman said that, with the exception of the gates, all else seems to be working smoothly.

Mr. Sherman said he will contact Dr. Ellis to see if he wants to employ someone in the area to make the modifications at Stewart Engineering expense or for Stewart Engineering to send someone to do it. He said he thought and hoped this would make the system entirely workable.

He said they often experience minor difficulties when the Stewart Engineering Company does not make the installation, as others are not always familiar with the equipment and how it should work.

He said they thought they were almost to home base and that he will be in touch with Dr. Ellis this week.

Campus Planning Committee
 November 12, 1964
 Attachment No. 543
 Item 2886B

CPC Project Numbers

<u>Project</u>	<u>Project No.</u>
Fraternity and Sorority Land	CPC No. 1-57
Agricultural Plant Sciences Facilities	CPC No. 2-58
Air Conditioning Survey	CPC No. 3-58
Architecture-Computer Building	CPC No. 4-58
Auditoriums	CPC No. 5-58
Steam Boiler and Housing	CPC No. 6-58
Chemical Engineering and Nuclear Reactor Building	CPC No. 7-58
Classroom-Office Building (Business Administration)	CPC No. 8-58
Dormitory Warehouse	CPC No. 9-58
Extension Division	CPC No. 10-58
Journalism	CPC No. 11-58
Library (New)	CPC No. 12-58
Mechanical Engineering Shops	CPC No. 13-58
Men's Gymnasium	CPC No. 14-58
Operating Procedures	CPC No. 15-58
Psychology-Speech Facilities	CPC No. 16-58
Parking and Parking Lots	CPC No. 17-58
Physical Plant Facilities	CPC No. 18-58
Science Addition	CPC No. 19-58
Southwest Collection	CPC No. 20-58
Stadium Expansion	CPC No. 21-58
Stock Judging Pavilion	CPC No. 22-58
Student Union	CPC No. 23-58
Television Station	CPC No. 24-58
Texas Tech Press	CPC No. 25-58
Textile Engineering Building	CPC No. 26-58
Veterinary Science Building	CPC No. 27-58
Women's Gymnasium	CPC No. 28-58
Agricultural Engineering Annex	CPC No. 29-59
Civic Center	CPC No. 30-59
Campus Plot Plan	CPC No. 31-59
Home Economics	CPC No. 32-59
Bulletin Boards and Directories	CPC No. 33-59
Home Management House	CPC No. 34-59
Classrooms and Class Sizes	CPC No. 35-59
Meats Lab	CPC No. 36-59
Flint Avenue	CPC No. 37-59
McClellan Property	CPC No. 38-59
Lighting (Parking, Campus, etc.)	CPC No. 39-59
Relocation of Farm Facilities	CPC No. 40-59
Married Student Housing	CPC No. 41-59
Departmental Shops	CPC No. 42-59
Priority List	CPC No. 43-59
Proprietary Keyway	CPC No. 44-59
Tennis Courts	CPC No. 45-59
Administration Building (New)	CPC No. 46-60
Athletes Kitchen, Dining Room and Study Facilities	CPC No. 47-60
Bleachers (Track Area)	CPC No. 48-60
Central Chilling Station	CPC No. 49-60
Post Office and Campus Mail Service	CPC No. 50-60
Faculty Club and Faculty Dining Room	CPC No. 51-60
Central Warehouse	CPC No. 52-60
Home Management House and Nursery School	CPC No. 53-60

<u>Project</u>	<u>Project No.</u>
Departmental Libraries	CPC No. 54-60
Library (Old)	CPC No. 55-60
Music	CPC No. 56-60
Petroleum Engineering Workshop	CPC No. 57-60
Recreation Hall	CPC No. 58-60
Creamery Addition	CPC No. 59-60
East Engineering Building	CPC No. 60-61
Gymnasium (Old)	CPC No. 61-61
Indiana Avenue Right-of-Way	CPC No. 62-61
HHFA CH-Tex-150(D), Unit A	CPC No. 63-61
Seismometer Vault	CPC No. 64-61
Museum	CPC No. 65-61
Sewage Effluent	CPC No. 66-61
West Engineering Building	CPC No. 67-61
Antenna Farm	CPC No. 68-62
Bookstore Addition	CPC No. 69-62
Campus-wide Incinerator	CPC No. 70-62
Dormitory Acoustical Report	CPC No. 71-62
HHFA CH-Tex-150(D), Unit B	CPC No. 72-62
HHFA CH-Tex-150(D), Unit C	CPC No. 73-62
Central Food Facilities (HHFA CH-Tex-180(S))	CPC No. 74-62
Killgore Beef Cattle Center	CPC No. 75-62
Long-Range Plan	CPC No. 76-62
Campus Drainage	CPC No. 77-63
Burlington Engine	CPC No. 78-63
Classroom-Office Building (New)	CPC No. 79-63
Naval Training Center	CPC No. 80-63
Entrance Marker	CPC No. 81-63
Quaker Street Right-of-Way Request	CPC No. 82-63
Signs on Campus	CPC No. 83-63
Wage Scale	CPC No. 84-63
Infirmery	CPC No. 85-63
Nursery School	CPC No. 86-63
Chemical Research Building	CPC No. 87-64
Experimental Gin	CPC No. 88-64
Residence Halls Office	CPC No. 89-64
Traffic and Security Facilities	CPC No. 90-64
Final Inspections	CPC No. 91-64
Generating Plant	CPC No. 92-64

TEXAS TECHNOLOGICAL COLLEGE
Lubbock, Texas

MINUTES OF THE CAMPUS PLANNING COMMITTEE

Meeting No. 230 November 25, 1964

A special meeting of the Campus Planning Committee was held at 9 a.m. on November 25, 1964, in Room 120 of the Administration Building, in order to make provisions to move into the Central and Consolidated Food Facilities. Members of the CPC present were Mr. E. J. Urbanovsky, Mr. Nolan E. Barrick and Chairman M. L. Pennington. Others present from the College were Mr. Robert L. Mason, Mr. O. R. Downing, Mr. John G. Taylor and Mr. Guy Moore. The Associated Architects and Engineers were represented by Mr. Howard Schmidt and Mr. Bob Messersmith.

2890. Dormitory and Dining Facilities (Project CH-Tex-150(D))

Units A, B and C (CPC Project Nos. 63-61, 72-62 and 73-62)
(H. A. Lott, Inc., \$2,764,548 - August 1, 1964;
\$2,788,420.40 - August 1, 1964; \$3,513,215.13 - August 1, 1964)

The contractor has done about 99 percent of all the items on the punch list for the year's guarantee on Unit A. While he is very cooperative, there seems to be a bit of difficulty in wrapping up the final work, but it is difficult for him to get to some areas of the hall during occupancy.

The chief problems in Units B and C are the elevators and the incinerators.

The amount of \$35,000 is being withheld from the contractor on Unit B, and \$44,000 is being withheld on Unit C. It was agreed that it would be well to hold both sums until the elevators and incinerators are working properly.

1. Elevators

Everybody is still trying to get the bugs worked out, and it looks as if they will be in time. No agreement has been reached with the contractor that the elevators in Unit B have worked properly, in order to start the three-months maintenance period.

The only problem with the Westinghouse elevators in Unit C seems to be that of vandalism. The rest is relatively minor. The elevators have been accepted, and the three-months period of maintenance provided in the contract is about to end. There is a guarantee period for one year against defective materials and workmanship.

The Esco elevators in Unit B have never operated satisfactorily, and the 90-day maintenance period will not be started until the operation is satisfactory. The year's guarantee probably will go back to the date of acceptance of the building or the first use. The manufacturer has replaced many of the parts and has been very cooperative. It seems as if even more action is under way in an attempt to correct the problems.

2. Incinerators

The Men's Residence Council and the Women's Residence Council requested larger doors on the trash chutes in the new halls in order to dump the trash more conveniently. Although the manufacturer advised that it was not the best idea, it was decided to enlarge the doors and the chutes. Some of the students

2890. Dormitory and Dining Facilities (Project CH-Tex-150(D)) (continued)

Units A, B and C (CPC Project Nos. 63-61, 72-62 and 73-62)

(H. A. Lott, Inc., \$2,764,548 - August 1, 1964;

\$2,788,420.40 - August 1, 1964; and \$3,513,215.13 - August 1, 1964)

2. Incinerators (continued)

have actually lost their trash baskets down the trash chute and caused some smoke damage. It was thought that some of the difficulties could be avoided by having trash cans at the chutes and having the maids feed in the trash. An alternate could be to go back to the smaller doors. The access doors to the chutes do not have the same type of metal as those in the older halls.

A great deal of difficulty has been caused by the placing of coat hangers, boxes, poultry wire and plastic in the trash chutes, and the aerosol cans have actually caused explosions and damage.

Mr. Moore mentioned that trash cans have been placed at the entrances to the chutes in Units A and B with the request that the students place aerosol cans, plastic, coat hangers, boxes, etc., in the containers, which are emptied twice daily. The results have been an improvement.

Unit C, the men's hall, has also experienced some difficulty from aerosol shaving cans, which explode.

It was pointed out that there is not nearly as much trouble being experienced in Unit A this year as there was last. One year's experience on the part of the students has resulted in much better use of the incinerators.

It was felt that a good many of the trash chute doors will have to be replaced, and it would be possible to make them smaller.

Some difficulty has been experienced with the cycling on the time clock which controls the dumping and igniting of the trash in the firebox. Perhaps there is a need to adjust the time intervals.

One problem experienced has been the setting of fires in the chutes by individuals. There is a need to educate the residents on how the incinerator functions and the results when it is improperly used.

It was pointed out that there are unusual problems at the end of the year when the students drop irons, percolators, clothing, etc., into the chutes rather than take them home. It was thought that perhaps receptacles at the entrances to the chutes at that time, with the request for the students to place such articles in the receptacles, could result in less damage to the incinerators and provide items for charity. The lack of education in the use of the equipment could be part of the problem, and the operation should be explained to all students.

Mr. Downing mentioned that college personnel cannot alter the operation of the equipment during the year's guarantee. Only after that time can the College make changes.

The College had specified the best known equipment and the latest design in keeping with the requests of the students.

All avenues of improvement for the incinerators are being investigated.

2890. Dormitory and Dining Facilities (Project CH-Tex-150(D) (continued)

Units A, B and C (CPC Project Nos. 63-61, 72-62 and 73-62)
(H. A. Lott, Inc., \$2,764,548 - August 1, 1964;
\$2,788,420.40 - August 1, 1964; and \$3,513,215.13 - August 1, 1964)

2. Incinerators (continued)

The fire in the chute in Unit C was so hot that it melted the handles on the chute feeder doors, and there was a fair amount of smoke damage.

3. Snack Bar

Mr. Moore reported that the snack bar went into operation on the preceding day and that the income totaled \$101. The official announcement of the opening has not been made as yet. Primarily, only milk shakes and sandwiches were sold.

4. Cooling Equipment

Mr. Downing pointed out that there has not been sufficient hot weather since the residence halls were occupied to give the cooling equipment a good test.

5. Utility Drawings

Mr. Mason suggested that the utility drawings for the projects be made available to those who have use for them.

6. Fountains

Mr. Moore reported that the fountains in Unit B still will not hold water, and the architects said that action has been started to remedy the defect.

7. Exteriors

It was reported that all are now in satisfactory condition.

It was the consensus that there is a need for communication between the housing staff and the students. Mr. Moore suggested that a bulletin be prepared explaining the philosophy of design, the purpose and operation of all the equipment, etc., and that copies be given to all regular residents and those who enter for short periods. It was agreed that the information would be most helpful.

2891. Housing (Other) and Food Service

Consolidated Food Service Unit for West, Sneed, Bledsoe
and Gordon Halls - November 1, 1964, and Central Food
Facilities - September 1, 1964 (CPC No. 74-62)
(J. R. Francis, General Contractor, Inc., \$1,480,157.10)

1. Central Food Facilities

Mr. Barrick said he had called for a final inspection several weeks ago, but the project was not ready. A preliminary punch list was made, and it was understood that the list did not constitute the final inspection. He said Mr. Downing had completed his check of the central unit as well as the consolidated unit.

Mr. Barrick said that he wanted to wait for the final architectural inspection until Mr. Dana's people had been here and made their report. Depending on their punch list, he felt that it would be possible to wind up the project.

2891. Housing (Other) and Food Service (continued)

Consolidated Food Service Unit for West, Sneed, Bledsoe and Gordon Halls - November 1, 1964, and Central Food Facilities - September 1, 1964 (CPC No. 74-62)
(J. R. Francis, General Contractor, Inc., \$1,480,157.10)

1. Central Food Facilities (continued)

With the exception of equipment, the project is virtually complete.

Mr. Schmidt said that the Central Facilities were substantially complete on November 6, and Mr. Barrick said that the project was ready to move into this afternoon, the only drawback being the installation of telephones.

It was pointed out that two major items remain to be done. The skylights have been incorrectly manufactured and must be replaced. The plans call for the lights to be oriented to take advantage of the sun through a prismatic arrangement. The manufacturer failed to design the skylights in keeping with the plans, and he has been requested to replace them. The vinyl fabric on the walls has an uneven pattern and some streaks. Again, the manufacturer has been notified that it needs to be replaced.

It was felt that neither the skylights nor the vinyl fabric would hold up the occupancy, although there would be some inconvenience to the contractor and the College in making the installation after occupancy. The contractor's work was satisfactory, but the material in each case was unsatisfactory.

It was not known if the equipment installation is entirely satisfactory, as Mr. Dana or his people must check it. One of the pieces of equipment needs adjusting, but otherwise, the equipment generally works. There is some conflict between Mr. Dana and the manufacturer on a few of the pieces. The bakery equipment is not quite ready, and the College does not have the plans and specifications for it.

It was pointed out that the forklift operators should practice prior to the commencement of the actual operation.

Mr. Downing pointed out that the boiler and refrigeration equipment are both working, but the water is not being treated, and it is bad for the equipment. It was agreed that it would be possible to start the water treatment at once.

After a great deal of discussion, it was agreed that the Central Facilities could be occupied now, with the full operation to be implemented as soon as it is physically possible to do so. Service to the kitchens is to begin at the earliest opportunity, with the idea of flowing into full operation with the least amount of delay. It will be necessary to obtain and train the rest of the staff. The supplies are on order. The palettes will be distributed; the moving equipment is on hand.

2. Consolidated Food Service Unit

Mr. Dana's people are checking the consolidated facilities at the moment and are about one-half through. Depending on their punch list, the project should be completed shortly.

The final inspection on the facilities can be made next week or the week following.

2891. Housing (Other) and Food Service (continued)

Consolidated Food Service Unit for West, Sneed, Bledsoe and Gordon Halls - November 1, 1964, and Central Food Facilities - September 1, 1964 (CPC No. 74-62)
(J. R. Francis, General Contractor, Inc., \$1,480,157.10)

2. Consolidated Food Service Unit (continued)

Some pieces of kitchen equipment need to be moved from Sneed and West, but the move must be timed so as not to interfere with the feeding operation now in use. With the exception of the equipment, the building is virtually complete.

Mr. Schmidt said that the project was substantially complete on November 12, 1964.

The stair towers on West and Sneed have been accepted, although the official and final acceptance has not been instigated.

The silver sorter in the consolidated facilities requires a separate compressor, according to the manufacturer, and it is now on order. It was not known at the time the specifications were prepared that a compressor would be necessary.

After a good bit of discussion, it was agreed that January 4, 1965, will be the target date for full operation for the consolidated facilities. Arrangements are to be made for the moving of the equipment from West and Sneed, the testing of all equipment and the shakedown in order to be ready for full operation on January 4.

M. L. Pennington
Chairman

The meeting adjourned at 11:40 a.m.

TEXAS TECHNOLOGICAL COLLEGE
Lubbock, Texas

MINUTES OF THE CAMPUS PLANNING COMMITTEE

Meeting No. 231

December 2, 1964

The Campus Planning Committee met at 9 a.m. on December 2, 1964, in Room 120 of the Administration Building. Mr. Wilmer Smith, Chairman of the Campus and Building Committee of the Board of Directors, was present. Members present were Mr. E. J. Urbanovsky, Mr. Nolan E. Barrick and Chairman M. L. Pennington. Others present were Mr. R. L. Mason, Mr. O. R. Downing and Mr. John G. Taylor.

2892. Agricultural Facilities (CPC No. 93-94)

Horse Facilities

It was agreed that Mr. Urbanovsky and M. L. Pennington will meet with Dean Thomas and attempt to study the program and to prepare a recommendation for the CPC at a later meeting.

2893. Chemical Research Building (CPC No. 87-64)

Mr. Barrick said that good responses have been received from Dr. Dennis, and he has been forwarding the information to the architects as they need it. His staff is doing a rough schematic now, and it will be passed on to Dr. Dennis, probably today, in order that he can do the necessary work to facilitate the development.

Mr. Barrick felt that perhaps within a week after receiving the information from Dr. Dennis, the application could be completed if the application of the University of Florida can be used as a criterion.

Mr. Barrick was of the opinion that if we utilize the site south of the Chemistry Building, it would be wise to go at least four stories.

The request for a planning grant will be made, as the National Science Foundation will only reserve funds and not make final approval until final plans and specifications are made.

2894. Classroom-Office Building (New) (CPC No. 79-63)

Mr. Barrick reported that he is sending all the requested information to the architects and that the architects have been working on site studies which are to be returned for tentative approval.

Mr. Taylor reported that Dr. David Hunt of the Texas Commission on Higher Education has said that he would like to come to Texas Tech to help prepare the application. It was agreed that arrangements should be made for him to come to the campus at his first opportunity and include representatives of the project architects in order that all could benefit from the information that he has.

Mr. Taylor was requested to attempt to determine what action must be obtained from the Board of Directors at the meeting on December 12, 1964, in order to process the application. If necessary, another meeting will be held to prepare the information for presentation.

If possible, the architects will prepare floor plans in time for the Board meeting, which seem to be all the plans that will be necessary for the application, judging by the Florida application.

2895. Dormitory Expansion

A verbal report on the meeting with the housing staff was given. The written report is attached to and made a part of the Minutes. (Attachment No. 544, page 1638)

All members had received copies of Mr. Moore's memo of November 9, 1964, about the information from other schools on the percentage of the student body the institutions try to house. A copy of the memorandum is attached to and made a part of the Minutes. (Attachment No. 545, page 1639)

Miss Evelyn Clewell, who makes the estimates of future enrollment for the College, prepared an estimate of the enrollment of men and women students until 1972. A copy of the estimate is attached to and made a part of the Minutes. (Attachment No. 546, page 1640)

At the meeting with the housing staff, it was mentioned that arrangements were made for noon classes by increasing the serving time for lunch from 45 minutes to two hours, but very few students are eating at any time other than from 12:00 to 1:00. The food preparation and the design of the Central Food Facilities were to accommodate students over the two-hour period, and the lack of need has caused problems in balancing the serving. At the present time, there is some question of the justification of the expense for the longer feeding period. In order to know more of the number of classes during the noon hour, Miss Clewell was asked to provide a list of such classes, and it is attached to and made a part of the Minutes. (Attachment No. 547, page 1641)

All of the existing information in the CPC Minutes was reviewed in detail and at length. It was agreed that housing east of College Avenue has merits, but there was some doubt that the Board would approve such an arrangement. If it were necessary to have condemnation, as mentioned before, it could be an unpopular move.

Various possible sites on the college farm were studied for the location of future housing. It seemed to be the consensus that any such buildings would have to be higher in the future than any now in existence, as it will be necessary to get more students on less ground than has been done in the past.

It was felt that by September 1, 1967, it would be possible to know what the Legislature had in mind for higher education, and that perhaps a good indication would be available by the end of the next legislative session.

After a very great deal of discussion, and in keeping with the Board's instruction to make specific recommendations, the following recommendations were made:

Long range: No long-range housing plan should be made independently of the long-range plan for the College. The housing needs should be kept in mind as the academic plans are developed. There was no specific agreement on who should make the housing plans.

1967

It was agreed that a major project could be completed by September 1, 1967. If the Board wishes to have a major addition, plans can be presented at the February meeting and steps taken to get the project off the ground.

2895. Dormitory Expansion (continued)

Additions to existing buildings could be constructed faster, but would not necessarily be the proper answer, as most would seem to be makeshift and not part of the permanent plan.

1966

There is no recommendation for anything to do in 1966.

1965

It is recommended that West Hall be diverted again to women's housing.

2896. Gin--Experimental (CPC No. 88-64)

The College was notified on November 23, 1964, by the United States Department of Agriculture that the request for the facility on campus had been declined. The gin is to be located at the South Plains Research and Extension Center. A copy of the letter of November 23, 1964, is attached to and made a part of the Minutes. (Attachment No. 548, page 1642)

2897. Housing (Other) and Food Service

- A. Consolidated Food Service Unit for West, Sneed, Bledsoe and Gordon Halls - November 1, 1964, and Central Food Facilities - September 1, 1964 (CPC No. 74-62)
(J. R. Francis, General Contractor, Inc., \$1,480,157.10)

There is nothing new to add, except that Mr. Dana has completed his punch list and it has been passed on to the contractor and Mrs. Bates.

- B. Housing Office (CPC No. 89-64) (Estimated Cost \$33,025)

A meeting was held from 9:00 to 10:30 a.m. on December 1, 1964, with Mr. Barrick, Mr. Taylor, Mr. Downing, Mr. Moore and M. L. Pennington present. The plans as developed were studied, and the thoughts of those present were obtained. An inspection of the existing facilities was made, and it is now up to M. L. Pennington to get the project under way.

2898. Infirmary

A few things remain to be done by the contractor, and he has consented to make the corrections during the Christmas holidays when the facility is vacant.

2899. KTXT-TV

A copy of Mr. McElroy's letter under the date of November 19, 1964, is attached to and made a part of the Minutes. (Attachment No. 549, page 1643)

It was agreed that the questions raised on the location of the antenna must be resolved, but it will be necessary to consider them at a later meeting.

2900. Library (CPC No. 12-58)Completion of South End of Basement

The architect has not said specifically that he would like to do the project but has indicated that he thought it was a good idea.

It is thought that he would like to do the project, if he can do it in connection with one of the other new ones. It was agreed that he should make a positive statement.

2901. Medical School

The CPC agreed to recommend the reservation of a site in the triangle across the street from the Methodist Hospital for the future development of a Medical School and facilities at Texas Tech.

2902. Museum

A meeting has been called for December 8, 1964, at 4 p.m. in the Museum for the presentation of the developments to date to the CPC.

2903. Parking

All of the material presented in connection with CPC Meeting No. 227 and that from the meeting with the representatives of the Traffic and Security Commission on Monday were reviewed in depth. A copy of the report on the Monday meeting is attached to and made a part of the Minutes. (Attachment No. 550, page 1644)

After a great deal of thought and in keeping with the instructions of the Board of Directors, it was agreed to recommend that:

1. Ports of entry (to be designated differently if it would be better) be installed as recommended in the past.

The recommended plan would not work very well if there were no ports and if there are to be none, a different approach will be needed if the study is to be continued.

2. The Board establish guidelines for the benefit of the CPC in making the study, as to whether or not the Board would approve any limitation of parking in the future or if the Board wishes to increase the tempo of parking installations.

With some 20,000 to 24,000 students predicted by 1970 and the competition for space by the academic program, housing, parking and other needs, some guidance from the Board would be most helpful.

2904. UtilitiesTotal Energy Concept

It was agreed that a study should be made in connection with the Total Energy Concept.

It was agreed that the idea should be explored further, and it was agreed to include Mr. Mason's letter of November 18, 1964, as a part of the Minutes. (Attachment No. 551, page 1645)

2905. Wage Scale

There had been insufficient time to acquire the information from the City of Lubbock and the public schools and make a comparative study. The study will be made at a later date.

2906. Will Rogers Statue

The Chairman reported that representatives Gerald Cagle and Gary Longnecker of Men's Dorm No. 10 came by on December 1, 1964, and said that the men in their hall wanted to light

2906. Will Rogers Statue (continued)

the statue of Will Rogers and would like to sponsor the project. They had consulted with Mr. Downing, and it is feasible to get the electricity to the location.

The CPC agreed that the proposal is very good and asked Mr. Downing and Mr. Urbanovsky to work with the students to make the installation. Each of them has ideas that will be helpful.

The CPC voted to commend the men in Dorm 10 for their thoughtfulness and desire to make Texas Tech a bit nicer. It is an example of the wholesome student attitude that makes Texas Tech such a nice place and why we wouldn't trade student bodies with any other college.

M. L. Pennington
Chairman

The meeting adjourned at 12:10 p.m.

Campus Planning Committee
December 2, 1964
Attachment No. 544
Item 2895

HOUSING STUDY

A meeting with the housing staff was held at 4 p.m. on November 30, 1964, in Room 120 of the Administration Building to discuss the housing study as a step in the recommendation to be made by the Campus Planning Committee.

Those present were Mr. Guy J. Moore, Director of Housing, Mrs. Shirley S. Bates, Director of Food Service, Mrs. Dorothy T. Garner, Coordinator of Women's Supervision, and Mr. Jess Parrish, Coordinator of Men's Housing, and M. L. Pennington.

The purpose of the meeting was explained--to get the thinking of the housing staff to pass on to the CPC meeting to be held on Wednesday morning, December 2, 1964, in an attempt to make a specific recommendation on the housing study for the Board of Directors.

The items in the Housing Study, which starts on page 1612 of the Minutes of CPC Meeting No. 227, Attachment No. 537, were reviewed to see if anything could be added. Basically, it was felt that the report, as written, could stand and nothing of a particularly new nature was available for addition.

It was agreed that it probably would be well to consider a long-range and a short-range housing plan. The question was raised as to whether or not it would be logical to proceed on a long-range housing plan without the benefit of the long-range academic plan which is due next May. The consensus was that the two are very closely related and it would be very difficult to provide an effective long-range plan for housing independently of the academic plan for the College.

Some of the thoughts which influenced the thinking were the recent recommendation of the Deans that some attention be given to the idea of selective enrollment in order to prevent the dumping of poor students from other institutions with limited enrollment; rumors that there are going to be four universities in the Texas system in the future--Texas Tech would be one, and the enrollment would be set at specific levels; and, the implementation of the Governor's Committee on Education Beyond the High School could affect the enrollment and housing and the type of housing. It was felt that there would be ample time to provide the long-range housing study after the academic study is available or perhaps even better, the housing study should be made in conjunction with the long-range academic study.

It was explained that at the last meeting of the Board of Directors, the members had not received the information on the Housing Study and arrangements have since been made to attempt to get information to the members at an earlier date. As a result, the CPC meetings will be moved forward a week in all cases possible in order to prevent the last minute rush and the lack of advance information for the Board of Directors.

Attention was next turned to the short-range plan. There will be no new housing available for students next fall. In general, it is felt that housing for women is more essential than that for men, the College should be as fair with the men as possible, under the circumstances, and housing affects the enrollment and the type of students.

The question was asked if the basis of normal growth for the next three years would probably take place regardless of what might be done in connection with the Governor's Committee on Education Beyond the High School or other items, and the consensus was that it would be.

It was pointed out that by using 50 percent of the students as a base for housing, over 9,000 spaces would be needed by 1967-68 or an additional 1,887 new spaces. Whether or not it would be possible to switch one of the new women's halls for one of the new men's halls was discussed. It would be so expensive to prepare the dormitories for the switch that it was considered ill-advised. However, there is a need for women's housing next fall.

The effect of professional schools, such as Law, on the housing situation was discussed. It was the consensus that the prelaw students would be registered in existing college departments, most of the Law students would be married by the time they started the law course, and there would be little need for additional housing as a result of the Law School. The School of Pharmacy probably will be tied to one of the existing departments, perhaps Chemistry, and it too should not dramatically affect the need for additional housing. Little information was available on the possible effect of other professional schools.

Mr. Parrish calculated that 7,200 women in 1967-68 would require approximately 1,320 new spaces. It was pretty well agreed that it would be impossible to have a major project completed before September 1, 1967, and by that time 1,800 new spaces for women probably could be used.

It was agreed that it might be well for any future facilities to be constructed in such a manner that they could be used as housing for either men or women. It would perhaps cost a bit more but could be a rather economical solution in the long run and provide a very great deal of needed flexibility. At any rate, a careful study should be made of the possibility before new halls are designed.

It was the consensus that the enrollment of men is affected very little by on-campus housing but it is different for women.

Mr. Moore figures that if the plan should be to house 50 percent of the students, an additional 1,887 new spaces would be needed between now and 1967, 2,707 new spaces from now until 1969 and 3,833 more than those now available by 1970.

The idea of allowing only the students with a 2. grade average to reserve space for the succeeding year prior to the approval of housing for freshmen was considered, and as it had been discussed in housing staff meetings, there are both favorable and unfavorable aspects and any proposal should be carefully weighed before a decision is made. How to handle the parietal rule, which is included in the existing Bond Resolutions, could be a problem.

It was, again, pointed out that the College probably should stay a bit behind the needs for men's housing in order to prevent the necessity of making any unwilling students live in the halls. Conditions are much better when the students live in the halls of their own volition.

The grade average for all men was 2.018 last fall and 2.072 last spring. The grade point average for all women was 2.43 last fall and 2.47 last spring.

The idea of what to do about a short-range plan was next discussed at length. It was agreed that a plan for housing between now and September 1, 1967, which would be the first time that a major project could be ready, is needed. It was the consensus that the housing complex idea would be the better way to proceed if the Board of Directors wishes to proceed with additional housing. It was felt that plans should not be made for less than 3,000 students and that the complex should provide housing for all single women students, with the rest of the capacity for men. Probably 30 acres should be set aside for the project.

Whether or not it would be better to cross College Avenue to the east for housing was discussed, with no specific recommendation as there are too many variables and there has been insufficient time to develop a philosophy for such housing. All agreed that there would be advantages in such an arrangement and there could be several approaches. It would be possible for private

capital to provide the housing, if the College made a statement that it did not plan to construct additional housing after a specific time. Private capital housing usually wishes to abide strictly by the College's rules and regulations. Such housing could be financed by the College, if the College were to purchase the land.

Additional housing for both men and women across College Avenue would allow the use of the existing land for more academic buildings and allow the College to grow without causing it to become so spread out. It would be possible to have additional men's housing across College and construct additional women's housing on campus. Another approach would be to construct men's housing across College Avenue, either by private capital or college borrowed funds, and take over existing men's dormitories on campus for women. A very great deal of thought needs to be given to the possibility before a recommendation is made.

It was the consensus that if the recommendation for additional housing must be made at this time, that it be on campus and for approximately 3,000 students, with the living quarters surrounding a central dining-administrative-maintenance area.

It was agreed that attention should be given to a short-range plan for 1965 and 1966, and no additional facilities should be recommended for men. A great deal of thought was devoted to the needs for additional women's housing. It was the consensus that parents are more interested in having the women live on campus in college housing than men, if there must be a choice, and that the enrollment will suffer if there is no additional women's housing. If additional space must be made available, it would be better to reclaim West Hall for women as the building would require fewer modifications for occupancy by women.

As for 1966, no recommendation was immediately forthcoming as it would be very difficult to find another building to make available for women. Sneed Hall probably would be the logical one, although by that time a good part of the present kitchen and dining room will be altered for athletes. It was felt that additional study should be given to the 1966 needs prior to a recommendation.

As a policy, it was agreed to recommend that women's housing be constructed for all single women students as long as it is possible and propitious.

M. L. Pennington
Vice President for
Business Affairs

The meeting adjourned at 5:40 p.m.

Campus Planning Committee
December 2, 1964
Attachment No. 545
Item 2895

Texas Technological College
Lubbock, Texas

MEMORANDUM
From
Office of the
Director of Residence Halls

Mr. M. L. Pennington, Vice President for
TO: Business Affairs DATE: November 9, 1964
SUBJECT: Planning and Construction - Residence Halls

In accordance with the CPC Minutes, I took measures to contact the library section of the Association of College and University Residence Halls. I was informed that there had been no survey made of the members of ACUHO during the past few years on the actual plans which had been put into effect, or which were contemplated for the building of residence halls in the future years. That is, there is no survey by individual institutions.

There are quite a number of statistics which have been accumulated by the U. S. Department of Health, Education and Welfare, and the statistics which follow in this memorandum are taken principally from Parts I, II and IV of such survey. The last actual report made by the U. S. Department of Health, Education and Welfare showed that throughout the United States, colleges and universities, both public and private, provided housing facilities for 39 percent of their full-time enrollment. As a general trend, universities housed more single men than single women, by a figure of 207,082 men vs. 136,113 women, but this was primarily because of the large number of men in most universities, a ratio of better than 2 to 1. On this same report, the colleges and universities indicated that for the year '65-'66 they would have increased their 1960-61 housing by 50.4 percent. These institutions indicated that 60 percent of the construction funds were expected to come from the sale of revenue bonds. Of the above 39.4 percent of students housed, 5 percent of that amount were married couples.

With regard to the percentage of public institutions enrollment housed on campus, the public institutions of the Southeast were housing 53 percent of their full-time students, but the public institutions of the West and Southwest region were housing only 22 percent of their full-time students. The other two regions, the North Atlantic and the Great Lakes and Plains, were close to the national average of 33.4 percent for single students.

It is interesting to note that during that same period of time, Texas Tech increased its housing by 59.4 percent. It is also interesting to note that private institutions in the West and Southwest region estimated that they would increase their residential accommodations by 57 percent in the above period, as compared to the 44 percent for public institutions.

In the state of Texas itself, 27 institutions reported that in 1960-61 they had 12,148 men in housing and 13,314 women in housing. These same institutions indicated that in 1965-66 they would have 17,886 men and 21,427 women. This would indicate an increase of approximately 5,700 men's spaces, and approximately 8,100 spaces for women.

/s/Guy J. Moore
Director of Residence Halls

Campus Planning Committee
 December 2, 1964
 Attachment No. 546
 Item 2895

Enrollment Estimate
December 1, 1964

12th class day of fall semester

<u>Year</u>	<u>Total</u>	<u>Percent of Increase</u>	<u>Men</u>	<u>Percent of Increase</u>	<u>Women</u>	<u>Percent of Increase</u>
1955	7,154	14.3	5,321	17.9	1,833	5.0
1956	8,055	12.6	6,089	14.4	1,966	7.2
1957	8,566	6.3	6,295	3.4	2,271	15.5
1958	8,770	2.4	6,337	.7	2,433	7.1
1959	8,866	1.1	6,266	1.1*	2,600	6.9
1960	9,178	3.5	6,239	.3*	2,939	13.0
1961	10,212	11.3	6,799	9.0	3,413	16.1
1962	11,183	9.5	7,361	8.3	3,822	12.0
1963	12,036	7.6	7,731	5.0	4,305	12.6
1964	13,827	14.8	8,730	12.9	5,097	18.3
1965	15,000	8.5	9,353	7.1	5,647	10.7
1966	16,005	6.7	9,758	4.3	6,247	10.6
1967	18,067	12.8	10,870	11.4	7,197	15.2
1968	19,783	9.5	11,336	4.2	8,447	17.3
1969	21,500	8.7	11,753	3.7	9,747	15.4
1970	24,045	11.8	13,105	11.5	10,940	12.2
1971	26,209	8.9	14,236	8.6	11,973	9.4
1972	28,043	7.6	15,088	5.9	12,955	8.2

*Decrease

Campus Planning Committee
 December 2, 1964
 Attachment No. 547
 Item 2895

NUMBER OF 12:00 CLASSES AND ENROLLMENTS
 Fall, 1964

<u>Course</u>	<u>No. & Section</u>	<u>Time</u>	<u>Day</u>	<u>Number</u>
Air Science	411-2	12:00	MW	11
	4111-1	12:00	Th	27
Chemistry	5316-1	12:00	MF	17
	5348-1	12:00	MWF	7
Economics	231-11	12:00	MWF	43
	133-9	12:00	MWF (added then dropped)	
Education	431-C	12:00 - 2:00	M-F)	58
	432-C	12:00 - 2:00	M-F)	
	462-C	10:00 - 2:00	M-F)	92
	462-D	11:00 - 3:00	M-F)	
	462-E	12:00 - 4:00	M-F)	
English	131-5	12:00	MWF	33
	131-16	12:00	MWF	32
	231-12	12:00	MWF	91
Finance	231-4	12:00	MWF	43
Physical Education	1111-9	12:00	MW	29
	1111-10	12:00	MW	32
	1111-25	12:00	TT	32
	1111-26	12:00	TT	31
	1154-2	12:00	TT	49
	233-4	12:00	MWF	35
Physics	141-A	12:00 - 3:00	M	23
	141-D	12:00 - 3:00	Tu	15
	141-F	12:00 - 3:00	W (dropped)	
	141-J	12:00 - 3:00	Th	15
	141-L	12:00 - 3:00	F	24
	143-A	12:00 - 3:00	M	25
	143-D	12:00 - 3:00	Tu	26
	143-F	12:00 - 3:00	W	26
	143-J	12:00 - 3:00	Th	26
	143-M	12:00 - 3:00	F	25
	241-A	12:00 - 3:00	M	12
Range Management	531-1	12:00	Th	5
Secretarial	122-4	12:00	TT	47
	122-D	12:00	MWF	47
Spanish	231-5	12:00	MWF	34

1,012

Campus Planning Committee
December 2, 1964
Attachment No. 548
Item 2896

UNITED STATES DEPARTMENT OF AGRICULTURE
AGRICULTURAL RESEARCH SERVICE
Washington 25, D. C.

Office of Administrator

November 23, 1964

Dr. R. C. Goodwin, President
Texas Technological College
Lubbock, Texas

Dear Dr. Goodwin:

After careful consideration of all factors involved, it has been decided to locate the Lubbock Cotton Ginning Research Laboratory at the South Plains Research and Extension Center.

Your offer of a location for this laboratory at Texas Technological College was appreciated and the important advantages of this location were carefully reviewed.

Among factors which weighed heavily in favor of the location at the South Plains Research and Extension Center are proximity to the cooperative cotton production and mechanization programs of ARS and the Texas Agricultural Experiment Station; the more rural setting where the dust, noise and transportation activities incident to ginning research would be less objectionable; and ready availability of the various types of seed cotton samples needed for ginning research within short hauling distances.

This was a difficult decision in view of the value of close cooperation with your research program in spinning and your teaching program for cotton engineering. We believe, however, that the location at the South Plains Research and Extension Center should not materially affect this opportunity for productive cooperation. Every effort will be made toward establishing and maintaining the most effective cooperation possible with the research and teaching programs of your college.

As you may know, Mr. Ivan W. Kirk, a member of our Agricultural Engineering Research Division, is currently teaching one course for your Agricultural Engineering Department by means of a modified tour of duty.

Sincerely yours,

/s/H. A. Rodenhiser

H. A. Rodenhiser
Deputy Administrator

1643

Campus Planning Committee
December 2, 1964
Attachment No. 549
Item 2899

TEXAS TECHNOLOGICAL COLLEGE
Lubbock, Texas 79409

Educational Television

November 19, 1964

Dr. R. C. Goodwin, President
Texas Technological College
Campus

Dear Dr. Goodwin:

Enclosed are three copies of a supplementary report on the contemplated expansion of the KTXU-TV facilities. This report is primarily concerned with the location of the new tower, if and when we get one. The tower location must be determined prior to applying to the F.C.C. for a construction permit which must be done at the same time, or before, the application for a Federal Grant is submitted.

Details and repetitions, with which you are already familiar, are included in the report for the benefit of those persons with whom you may discuss the problems presented.

If additional copies of this, or the November 6 report, are needed I will be happy to furnish them and any further information required.

Sincerely,

/s/ D. M. McElroy

D. M. McElroy, Director
Educational Television

Encl.

DMM/rm(b)

SUPPLEMENTARY INFORMATION ON THE EXPANSION
OF THE FACILITIES OF KTXT-TV

The Educational Television Board at its August 22 meeting requested a committee comprised of Messrs. Joe Bryant, Walter Windsor and D. M. McElroy to study five proposals for the expansion of the KTXT-TV broadcast facilities and recommend the most feasible plan. The expansion program is contingent on receipt of a federal grant and availability of matching funds at the local level. The Committee's recommendation and the status of an application for the federal grant are contained in "Status Report on an Application for a Federal Grant to Expand the Facilities of KTXT-TV," submitted by transmittal letter to President R. C. Goodwin, November 6, 1964.

The November 6 report reflects recognition of the need for financial and scholastic participation by the public schools of the area in order to provide the local matching funds and an instructional program commensurate with the proposed expanded broadcast facilities.

Factors relating to the Committee's recognition of need for public school participation were as follows:

1. A cooperative ETV operation between Texas Tech and the area public schools will require Texas Tech to utilize closed circuit television to an extent in proportion to the amount of televised instruction desired.
2. Public schools representing so many buildings scattered over a large geographic area can be served only by open circuit broadcast at a cost that is not prohibitive.
3. The buildings on the Texas Tech campus can be served by closed circuit at a reasonable cost.
4. A joint broadcast and closed circuit operation will provide a more economical system than separate facilities, as much of the equipment and personnel would be utilized by each operation.
5. Public school programming will utilize most of the 8 a.m. to 4 p.m. broadcast hours; however, proper scheduling will permit the broadcast of college credit courses in the disciplines representing the largest enrollments and where classroom demands can be reduced as a result of TV utilization.
6. A cooperative ETV operation will still provide Texas Tech with broadcast hours for continuing education and general service to the College.
7. A cooperative ETV operation will provide the public schools of the area and Texas Tech with the most economical method of utilizing television as an instruction media and the most economical method of securing matching funds at the local level for the expansion program.

Factors relating to the Committee's recommendation of 25 KW (100 KW ERP) transmitter and a 750' tower are:

1. It will enable KTXT-TV to serve a sufficient number of public school scholastics to support a good instructional program at a nominal cost per scholastic.
2. It will permit KTXT-TV, as a media for continuing education and public service for the College, to increase its area of influence.

RESOLUTIONS REQUIRED PRIOR TO
INITIATING EXPANSION

The College should determine if the present location is to be the permanent site for the television station. This question has a greater relation to the tower location than to the studio location. The moving of studios can be accomplished without great difficulty or expense, while the relocation of a 750' tower and 25 KW transmitter could be as much as \$50,000.

The tower location is closely related to the College building program. The actual ground area required for the tower and guys is small, but the overhead coverage makes a substantial number of acres undesirable as building sites. Falling ice during winter storms creates extreme hazards to roofs of buildings under and near the guy wires. If the campus is to expand toward the present station site, a close look should be given to the location of the proposed TV tower.

The present building in which the transmitter and the studio controls are located will be inadequate to house the equipment included in the expansion plans. The simplest provision for space will be the addition of a transmitter room (approximately 16' x 40') across one end of the TV building, if the tower location remains at the present site. The cost of this room can possibly be financed from funds derived from the public schools.

The transmitter must be located as close to the tower as possible; therefore, if the tower location is changed, the construction of a transmitter building at the new location will be required. This can be a small building but the extension of utilities to it will result in a greater cost than an addition to the existing building.

Visual and aural signals can be carried from the studio equipment to the transmitter by coaxial cable for considerable distances; therefore, the studios and transmitter can be located separately as long as they are on the campus.

The transmitter must be constantly attended by a licensed engineer; therefore, separate studio and transmitter buildings result in greater personnel requirements. The transmitter engineer can also perform other duties when studios and transmitter are housed in a single unit. The transmitter actually requires little attention other than instrument readings at 30-minute intervals, but the F.C.C. requires a licensed engineer's presence in the building when the transmitter is on.

The present building as far as studio floor and studio control rooms are concerned will require expansion as the television operation increases. Simultaneous live programming for broadcast by open circuit and closed circuit, or for broadcast and tape recording, will require a second studio. The present location is very satisfactory, and the building lends itself to expansion to serve future needs if the College does not have other plans for this area.

In summary, if the proposed 750' tower and guy wires, constructed on approximately the same site as the existing tower, will not interfere with the future building program, and if additions to the present building, in keeping with ETV's operational needs are feasible, we have only the minor problem of orienting the proposed tower and guys to the existing buildings and utility lines.

If the proposed tower and guys will interfere with the development of this part of the campus, then this problem should be presented to the proper parties for resolution.

If the present building will not be the permanent studio location, then a location study should be initiated by the proper parties.

Campus Planning Committee
December 2, 1964
Attachment No. 550
Item 2903

PARKING STUDY

A meeting to discuss the Parking Study was held at 2 p.m. on November 30, 1964, in Room 120 of the Administration Building. Present were Dean Lewis N. Jones, Chairman of the Traffic-Security Commission; Chief Bill Daniels, Head of the Traffic-Security Department; Mr. Mike Stinson, member of the Traffic-Security Commission and Head of the Traffic and Security Committee of the Student Council; and M. L. Pennington.

The Parking Study (Attachment No. 538, page 1613 of the Minutes of Campus Planning Committee Meeting No. 227) and the recommendations shown in Item 2861, page 1609, were read, reviewed and discussed in detail. It was the consensus that there is nothing new to add at this time.

It was agreed that ports of entry are necessary in order to carry out the recommendations of the Traffic-Security Commission and the CPC for reasons set out in the Minutes of Meeting No. 227. Since there is some doubt that the Board of Directors favors the idea of ports of entry, it was agreed that it would be well to recommend to the Board of Directors that the ports of entry be established before additional work is done on a plan which will not work without the ports. If the Board of Directors wishes to proceed without the ports, a different solution and study will be necessary.

There seems to be an indication that the Board of Directors may not favor a limitation of parking in the years ahead but would wish to have additional parking lots placed into use. Various locations for parking lots were discussed, and it was agreed that it would be helpful to have some guidelines from the Board of Directors if the members are averse to the idea of limiting future parking to some degree.

The question of esthetics and the need of play fields for classwork, intramurals and recreation were discussed in view of a possible need for unlimited parking in the future.

It was the consensus that Texas Tech provides more parking now than almost any other known institution of higher learning.

It was the specific recommendation of the group that the Board of Directors be requested to provide us with guidelines before additional work is done.

It was agreed that it would be well to estimate the future needs in the terms of additional parking spaces if the ratio of parking spaces at the present time to the students enrolled were carried out.

Chief Bill Daniels was requested to supply the number of cars which can be parked on an acre and the number of acres now devoted to parking lots in time for the CPC meeting on Wednesday of this week. From the information available, the cost per car or per acre of storage could be estimated; then the number of parking spaces and acres of parking lots could be predicted for the future. In a quick estimate, it was indicated that probably 15 large parking lots could be needed in 10 years, as the enrollment is to double in that time.

The idea of elevated parking lots at the Stadium was discussed, and it was the feeling that such would be a possibility, provided curtain walls could be provided to make the arrangements more acceptable.

In order to make the project as attractive as possible, it was pointed out that it might be wise, as suggested by the CPC, to study the idea of going several stories into the ground as well as up. It might be possible to work out arrangements, through the Athletic Department, whereby additional parking

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could be provided at the Stadium and those who attend the games in the Stadium could pay a parking fee to help defray the expense, if such must be done. Any changes would have to be cleared in advance with the City of Lubbock or the Auditorium-Coliseum Committee.

It was felt that any elevated structure should be enclosed in order to provide an attractive addition to the campus.

It was the consensus that Texas Tech should not forget the esthetic approach, as the colleges which have gone to asphalt jungles seem to regret it.

It was agreed to reiterate that the safety of the pedestrians should be paramount on the inner campus.

M. L. Pennington
Vice President for
Business Affairs

The meeting adjourned at 3:40 p.m.

Campus Planning Committee
December 2, 1964
Attachment No. 551
Item 2904

TEXAS TECHNOLOGICAL COLLEGE
Lubbock, Texas

Office of Supervising Engineer

November 18, 1964

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

Subject: Consideration of Total Energy Equipment in Conjunction
with new Chemical Research Building

Dear Mr. Pennington:

The present contract with the City of Lubbock for electrical power states that--"the City of Lubbock would supply all electrical service to the College for the period September 1, 1963 through August 31, 1965."

We have for some time been studying the various aspects of the installation of a Total Energy Plant at Texas Tech. Such equipment would produce electrical power and steam, with the steam being produced as a by-product from the hot exhaust gases of the engines and waste heat boilers. The engines would be either gas turbines or diesels, or perhaps a combination of the two types, and would utilize natural gas as the fuel.

The cost of fuel to produce electricity by such equipment would be between 1/4 and 1/2 the present price of approximately 9 mills which the College pays for electricity.

In a letter to you under date of November 2, 1964, cost figures worked out from one manufacturer's catalog information were listed along with possible savings per year which could be realized using a small Total Energy Plant. Possible capital outlay requirements were also listed for the College to purchase and install equipment capable of the generation of its own power. The calculations are by no means refined or completely conclusive, but do indicate that the matter of utilizing Total Energy Plants at this College is within the realm of feasibility, and that considerable savings could be realized therefrom.

It occurs to me that an excellent method for obtaining conclusive figures on the merits of utilizing total energy at Texas Tech would be to incorporate a small Total Energy Plant into the design of the proposed Chemical Research Building. I therefore recommend that a Total Energy Prototype Plant be installed within, or adjacent to, the building, and that its electrical generation capacity be at least half the total requirements for the building.

The regular college services for steam, water, gas and electricity would be brought to the building, but interconnections, valves, and trip-out switches would be installed so as to provide no interference with the regular distribution of electricity, steam and condensate services to other buildings on the campus.

Such a prototype plant would serve as educational apparatus for at least two departments, Mechanical and Electrical Engineering, and would enable research studies of any desired duration to be carried out. Results of such tests could point in the direction for the College to move with its future consideration of Total Energy Systems. If the College is to move toward a Total Energy system, the decision to do so should be made in advance of the next major academic building program.

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Mr. M. L. Pennington

November 18, 1964

Page 2

It is my belief that the equipment for this prototype Total Energy Plant would be contributed by equipment manufacturers and the local gas company if properly approached on the matter. The cost of the basic Chemical Research Building should not be affected if the prototype plant were included, presuming that the plant equipment is contributed.

The next contract for electric power could be written so as to permit the use of such power generation equipment within the Chemical Research Building.

It is exciting to consider what could be accomplished at Texas Tech should such equipment as discussed above be incorporated into the new building. It is recommended that the matter be included on the CPC agenda for further discussion.

Sincerely yours,

/s/ Robert L. Mason

Robert L. Mason
Supervising Engineer

RLM:mm(b)

cc: All members of the
Campus Planning Committee

TEXAS TECHNOLOGICAL COLLEGE
Lubbock, Texas

MINUTES OF THE CAMPUS PLANNING COMMITTEE

Meeting No. 232

December 8, 1964

At 4 p.m. on December 8, 1964, a meeting was held in the Museum to present the developments of the Museum Master Plan to the Campus Planning Committee. The meeting was arranged by the West Texas Museum Association.

Members of the West Texas Museum Association present were Mr. Mark Haley, Chairman, Mr. Retha Martin, Mr. Bob Snider, Mr. John Whitcomb and Mr. George Wilson.

The Associated Architects & Engineers were represented by Mr. Howard Schmidt, Mr. Bob Messersmith and Mr. Hoyse McMurtry. In addition, Mr. Pete Love of Dallas was present.

Dr. Earl Green was present, representing the Museum.

Members of the Campus Planning Committee present were Mr. E. J. Urbanovsky, Mr. Nolan E. Barrick and Chairman M. L. Pennington. Others present were Mr. O. R. Downing, Mr. Robert L. Mason and Mr. John G. Taylor.

2907. Museum.

The architects presented an overall plot plan, showing the Museum facilities on 15 acres and the proposed continuing education center on perhaps an equal amount of land, or more, to the east. Both proposed projects are shown facing Fourth Street on an east-west axis with the parking lots along Fourth Street.

The West Texas Museum Association members said they had been told that Indiana Avenue would be opened across the campus and that Flint Avenue would be closed. They had made their plans on that assumption.

The picnic area which would display equipment such as the locomotive was shown.

The plan for the main Museum Building was presented. There are 51,000 feet in the first unit. Of the amount, 36,000 square feet would be in exchange for the present structure, and the group would expect to raise the difference as shown in the written plan.

The first floor layout was discussed, including the functions and uses, permanent exhibit areas, the two-story center portion, offices, food service, etc.

The second floor, which would be over the first floor with the center open, was discussed, including the classrooms and the arrangement to have them open when the Museum is closed, the balcony around the open center portion, bridge crossings over the center portion, offices, six classrooms with an average capacity of 30, and the possible flexibilities.

The basement would be partly above grade, for lighting from windows. Ingress and egress, storage, space for History and Art, exhibit space, labs, darkrooms, three classrooms, offices, toilets, janitor space, maintenance room, mechanical equipment, shipping and receiving, fumigation, etc., were discussed.

A very nice watercolor sketch of the interior, showing the first and second floors, was presented.

The various ceiling heights, lighting and the exterior design, which is in the formulative stage, were discussed.

2907. Museum (continued)

The early estimates of some of the costs which would be affected by the choice of materials, mechanical equipment and finishes are as follows:

Industrial area at \$5 per square foot	\$ 7,200
Main Unit:	
Basement - 19,200 square feet	211,000 (air conditioned)
	173,000 (not air conditioned)
Ground floor - A 22-foot ceiling area at \$16	102,000
Other areas at \$12	153,000
Second floor - Balconies	11,000

The total for the Main Unit is estimated at \$614,400 with air conditioning and \$572,000 without it in the basement.

Planetarium - Basic Unit	\$ 50,000
Exhibit Galleries, with basement (future)	626,000
First two floors, 38,000 square feet	467,200 (air conditioned)
	428,000 (without air conditioning in basement)

The sales counter area has been reduced from 2,500 square feet in the brochure to approximately 700 square feet in the plan.

A good many changes have been made from the written Master Plan as the project was refined through further study.

The industrial gallery would be an economical operation and probably would have only heating.

The methods of handling the heating and air conditioning were discussed.

For study purposes, the main building had been divided into separate zones for heating and cooling with approximately 25 zones in all. It was agreed that the cooling method could have a marked effect on the exterior design. It seemed to be the consensus that a small unit is about as much trouble to maintain as a large one, and 20 small units could be much more difficult to maintain than one large unit. With individual units, it was estimated that 125 total aggregate tons would be required. If the central chiller were used, which would provide diversity, probably 100 tons of capacity would be sufficient. The estimated cost is \$800 per ton for a central unit, and \$600 per ton for packaged units. It would be possible to have a combination of a central unit and packaged units. If the compressor of a central unit were lost, all of the air conditioning could be off; with packaged units, only one unit would be out. From the standpoint of operational costs, there seems to be little advantage of one over the other, as it would require about as much fuel consumption for a central unit as it would for the packaged units. As for air filtration of the units, there is a very good filter on the packaged units, but there would be some 25 to service. The filter could be cleaned on a central unit automatically.

It was felt that there probably should be a central unit for heating.

No provisions have been included in the plans for television use.

After a great deal of discussion, the consensus was that first attention should be devoted to a model of the Main Unit and the drawing of the Industrial Unit in order to start the fund-raising campaign.

2907. Museum (continued)A. Industrial Galleries

The site, floor plan and elevations are needed for inclusion in a brochure by mid-January, in order that the ginner who are interested can present the plan to the State Committee Meeting to raise money for roughly one-third of the industrial area. It is planned that this will be the first unit.

B. Model of the Main Unit

It is needed to begin fund raising. It would be a cut-away model which would show the exterior and interior. The architects estimated that it would require a month to construct.

It was agreed that the CPC should move as expeditiously as possible for these two needs.

The scheduling for Board approval is a difficult problem, as there is hardly time this week to get the information together. The Board of Directors does not meet again until February 13, 1965, and the material is needed prior to that time. It was agreed to ask the Board of Directors for suggestions in order to proceed as rapidly as possible.

M. L. Pennington
Chairman

The meeting adjourned at 6:10 p.m.

TEXAS TECHNOLOGICAL COLLEGE
Lubbock, Texas

MINUTES OF THE CAMPUS PLANNING COMMITTEE

Meeting No. 233

December 9, 1964

2908. Classroom-Office Building (New) (Foreign Languages and Mathematics)
(CPC No. 79-63)

A meeting was held at 11:15 a.m. in Room 120 of the Administration Building on December 9, 1964. Dr. David Hunt, Assistant Director for Educational Facilities, Texas Commission on Higher Education, and Mr. Bob White, Project Architect, were present. Members of the Campus Planning Committee present were Mr. Nolan E. Barrick, and Chairman M. L. Pennington. Others present were Miss Evelyn Clewell, Mr. R. L. Mason, Mr. O. R. Downing and Mr. John G. Taylor.

Dr. Hunt, who is handling the College Facilities Act for the Texas Commission on Higher Education, said that the state plan has been approved and funds have been allocated to the State. The amount allocated to Texas is \$9,073,000. The maximum participation of an institution will be 33 1/3 percent of the total project up to a maximum of \$1,500,000. There is not enough money available for all the requested projects immediately and it will be necessary to develop a priority system.

Approximately one-half of the Federal fiscal year has passed now and all available funds will be allocated after January 15. Approximately 70 percent of next year's allotment will be allocated by next September 1. Some projects will not get approval this year. It is felt that all the projects which have matching funds can be covered in the first two fiscal years.

Individual institutions can submit any number of proposals. The only important item to the Texas Commission on Higher Education will be the matching funds.

The primary purpose for grants to senior institutions is an urgent need for undergraduate facilities for increased enrollment in Foreign Languages, Mathematics, Science, Engineering and the Library.

The junior colleges are in a bit different category as there are different regulations for them.

The institutions are not supposed to schedule other classes in the building and the preponderance use doctrine will prevail. The Federal auditors will have to show the use of the facilities when they make an audit. Bible classes are out as far as the use of the facilities are concerned.

The Texas Commission on Higher Education is now ready to receive applications. The Federal plans are on hand and some State supplements have been added to the procedures. The Federal plan was prepared by lawyers in the United States Office of Education. The State plans conform in every way, even the intent, with the overall Federal plan.

The Texas plan was written by Dr. Hunt, with the aid of the Texas Commission on Higher Education staff. Every scrap of information available was used but there was not enough to set all of the criteria.

2908. Classroom-Office Building (New) (Foreign Languages and Mathematics)
(CPC No. 79-63) (continued)

Mr. J. C. Nichols and Dr. Hunt will be available in the office of the Texas Commission on Higher Education to answer questions, and one will always be available by phone. Dr. Hunt emphasized that everyone should feel free to get any needed information from them at any time. They will welcome questions and want to help as much as possible.

Various interpretations of the instructions were discussed.

(At 12:30 p.m. it was agreed that the meeting would recess for lunch and that Dr. Hunt and Mr. Taylor would meet with Miss Clewell after lunch and that another meeting would be held later in the afternoon on the project and the Chemical Research Building.)

(Part of the group met again at 1:50 p.m., recessed at 3:00 p.m. and reconvened at 4:30 p.m., with Mr. Urbanovsky, Mr. Barrick, Mr. White, Mr. Downing and M. L. Pennington present.)

Mr. White presented the developments of the project to date and explained that there is 57 percent efficiency in the designed use of the space. The gross square footage is 67,500 square feet with 38,286 square feet assignable.

The site, floor plans and elevations were studied in detail.

Mr. White said that it would not be feasible to reduce the design as it is presented but if there are insufficient funds, it would be necessary to develop a new configuration.

The proposed structure would be a basement and two floors. The top floor contains sixty-two faculty offices and suites for the two department heads.

The second room would be used entirely for classes and the basement would contain classrooms and laboratories.

Approximately seventy offices were requested by Mathematics and about sixty-two for Foreign Languages. The sizes of the classrooms conform pretty well to the departmental requests. It was necessary to eliminate classrooms with a capacity of less than twenty, and five was used as a break point for the sizes. (Ex., a capacity of thirty-five rather than thirty.) Miss Clewell had been consulted before the sizes of the classrooms were set.

Plans contain two 20-capacity classrooms and eleven 45-capacity for Mathematics and one 20-capacity, five 35-capacity and two 45-capacity classrooms for Foreign Languages. The total number of classrooms is twenty-one. In addition, there are one practice and two classroom laboratories for Foreign Languages and one desk calculator laboratory for Mathematics.

There are two center courts running to all three floors in order to eliminate the outside window wells. The exterior is designed to blend with the Library and the Agricultural Plant Sciences Buildings.

It was agreed to recommend the site, floor plans and elevations to the Board in order that the information could be used in the application which should be prepared with the least amount of delay.

2909. Chemical Research Building

Mr. White offered to remain on campus for the Building Committee meeting on Friday evening, December 11, 1964, in order to make as much progress as possible on the Chemical Research Building plans and specifications as well as the new Classroom-Office Building.

It was agreed that it would be well to present as much of the material to the Building Committee as possible, in order to make progress with the application for matching funds through the National Science Foundation with the least delay.

M. L. Pennington
Chairman

The meeting adjourned at 6:10 p.m.

TEXAS TECHNOLOGICAL COLLEGE
Lubbock, Texas

AGENDA FOR THE JOINT MEETING
OF THE CAMPUS AND BUILDING COMMITTEE AND CAMPUS PLANNING COMMITTEE
TO BE HELD AT 7:30 P.M. IN THE OFFICE OF THE PRESIDENT
DECEMBER 11, 1964

¹⁰
2907. Building Signs

OK

OK
Approve the contract award to Colonial-Hites Company, 228 Parsons Street, West Columbia, South Carolina, the low bidder, in the amount of \$4,654.19, in keeping with the attached memorandum which will be made a part of the CPC Minutes.

(The Building Committee of the Board of Directors approved the award on November 6, 1964, and this step will provide approval of the Board of Directors and allow the action and contract to be made a part of the Minutes.)

¹¹
2908. Chemical Research Building (CPC No. 87-64)

OK
The Board has authorized the application for a matching National Science Foundation Grant. The Project Architect will be on campus Wednesday, December 9, 1964, and steps will be taken to proceed as far as possible on the preparation of the application. Any information available will be presented to the Building Committee.

There are three steps to the application as follows:

1. Preliminary proposal.
2. Full application which could result in the reservation of funds and the approval of the planning grant.
3. Final plans and specifications which will determine the approval or denial.

1. SITE APPROVAL

2. PRESENT PLANS AS FEASIBLE WITH RESERVATIONS TO MAKE NECESSARY ADJUSTMENTS TO FILE APPLICATION
3. MOVE 5 TEMPORARY BLDGS - INFO. ONLY

4. 1. authorize M. L. Pennington to sign OK

2909. Classroom-Office Building (New) (CPC No. 79-63)

OK
The Board has authorized the Administration to make an application for matching funds from the Federal Government. The deadline for the application is January 15, 1965.

Dr. David Hunt of the Texas Commission on Higher Education and Mr. Bob White of the Project Architects' office are scheduled to be on campus Wednesday, December 9, 1964, and steps will be taken to go as far with the completion of the application as possible.

At this moment, it is not known just what may be available to present to the Building Committee but an attempt will be made to present whatever is required to complete the application.

It might be well to specifically authorize M. L. Pennington to sign the application in order to be in strict compliance with the instructions.

2910. Dormitory Expansion

Consider the following recommendations:

- OK → 1. Long-range - No plan for housing be made independently of the long-range plan for the college proper which is scheduled for completion next May. *THEY DO IT IN MAY. MUST GO HAND IN HAND WITH LONG RANGE STUDY. COULD BE TIME FOR PRIVATE FINANCING*
2. September 1, 1967 - A major project can be ready on September 1, 1967. It probably would have to be located west of Flint Avenue. Specific steps for the implementation could be made at the February 13, 1965, Board meeting without getting off schedule if the Board decides to proceed at the meeting on December 12, 1964. *ON CAMPUS CAN BE REQUIRED REGARDLESS OF LONG RANGE PLAN. Knew room for students coming to study picture, dependent on stated design plan.* OK ✓ CHECK PRIVATE FINANCING
3. September 1, 1966 - There is no specific recommendation at the moment. OK

- OK 4. September 1, 1965 - West Hall, again, be diverted to women's housing. OK

2911. Dormitory and Dining Facilities (Project CH-Tex-150(D))

Units B and C (CPC No. 72-62 and 73-62) (H. A. Lott, Inc., \$2,788,420.40 - August 1, 1964, and \$3,513,215.13 - August 1, 1964)

Walks, Drives and Parking Lots

- OK Walks (Frank Hodges, \$37,139) OK
- Consider the recommendation for the final acceptance date of November 10, 1964.

2912. Medical School

- OK Consider the recommendation of the CPC that the site for the Medical School be across the street from the Methodist Hospital. *IF SITUATED ON CAMPUS.* OK

2913. Museum

A meeting with the Museum Board is scheduled for 4 p.m. on December 8, 1964, and the report on the meeting will be given to the Building Committee.

CPC COME BACK ^{WITH} FAIRLY
PRECISE PLAN FOR PORTS.

OK

2914. Parking Study

Consider the CPC's recommendations that:

1. Ports of Entry - (to be designated differently if it would be better) be installed as the ports would be a necessary step in the proposed plan. If there are to be no ports, a different type of plan will be necessary.

NEARLY
ELIMINATED
THIS ONE.

Guidelines - The Board of Directors establish guidelines as to whether or not any limitation of parking on the campus in the future would be acceptable and the extent of additional parking facilities desired in the future.

TEXAS TECHNOLOGICAL COLLEGE
Lubbock, Texas

Office of the Vice President
for Business Affairs

November 7, 1964

M E M O R A N D U M

TO: Mr. J. Roy Wells
SUBJECT: Signs on the Various Buildings on Campus

Docket Item

At the meeting on May 30, 1964, the Board of Directors authorized the Building Committee to award a contract between meetings for the installation of the approved signs on the various buildings on campus.

At 2 p.m. on November 3, 1964, the bids were opened and read aloud in the presence of five interested persons in Room 120 of the Administration Building. A copy of the bid tabulation is attached.

The low bidder was the Colonial Hites Company, 228 Parson Street, West Columbia, South Carolina, in the amount of \$4,654.19.

A recommendation was made to the members of the Building Committee that the contract be awarded to the low bidder, and the voting was as follows:

Mr. Wilmer Smith, Chairman	"Aye"	November 5, 1964
Mr. Harold Hinn	"Aye"	November 6, 1964
Mr. Herbert Allen	"Aye"	November 6, 1964

The award will be included in the Minutes of the Campus Planning Committee, in order that it may be of record there also.

M. L. Pennington
Vice President for
Business Affairs

MLP:g

Enclosure

Copies to:	Mr. Wilmer Smith	Mr. E. J. Urbanovsky
	Mr. Harold Hinn	Mr. Nolan E. Barrick
	Mr. Herbert Allen	Mr. R. L. Mason
	Mr. Manuel DeBusk	Mr. O. R. Downing
	Dr. R. C. Goodwin	Mr. John G. Taylor
		Mr. R. B. Price

TEXAS TECHNOLOGICAL COLLEGE
Lubbock, Texas

MINUTES OF THE CAMPUS PLANNING COMMITTEE

Meeting No. 234 December 11, 1964

A meeting of the Campus and Building Committee of the Board of Directors and the Campus Planning Committee was held at 7:30 p.m. on December 11, 1964, in the Office of the President.

Members of the Building Committee present were Mr. Wilmer Smith, Chairman, Mr. Harold Hinn and Mr. Herbert Allen. Other members of the Board of Directors attending were Mr. R. Wright Armstrong, Mr. Alvin R. Allison, Mr. Manuel DeBusk, Mr. Roy Furr, Mr. Charles D. Mathews and Mr. J. Edd McLaughlin.

Members of the Campus Planning Committee present were Mr. E. J. Urbanovsky, Mr. Nolan E. Barrick and Chairman M. L. Pennington. Others present from the College were President R. C. Goodwin, Dr. W. M. Pearce, Mr. J. Roy Wells, Mr. O. R. Downing, Mr. Robert L. Mason, Mr. John G. Taylor, Mr. Guy J. Moore, and Mr. R. B. Price. Also present were Mr. Bob White of Pitts, Mebane, Phelps, & White, and Mr. Howard W. Schmidt of the Associated Architects & Engineers.

(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 at the meeting on December 12, 1964, will follow that of the Campus and Building Committee for each item.)

2910. Building Signs

Approved the contract award to Colonial-Hites Company, 228 Parsons Street, West Columbia, South Carolina, the low bidder, in the amount of \$4,654.19, in keeping with the memorandum which is attached to and made a part of the Minutes. (Attachment No. 552, page 1655)

(The Board of Directors approved.)

2911. Chemical Research Building (CPC No. 87-64)

Mr. Bob White of Pitts, Mebane, Phelps & White, presented the plans and developments to date in keeping with the meeting of the preceding afternoon with Dr. Goodwin, members of the Campus Planning Committee and Mr. White as follows:

1. Approved the site.
2. Approved the plans as presented as feasible, with reservations on the part of the College to make the necessary adjustments to file the application with the National Science Foundation for matching funds.
3. That it will be necessary to move the five temporary buildings as the Chemistry Department will have to use them during the construction of the building and, in all probability, after that time too.
4. Authorized M. L. Pennington to sign the application to the National Science Foundation.

(The Board of Directors approved.)

2912. Classroom-Office Building (New) (Foreign Languages and Mathematics)
(CPC No. 79-63)

Mr. White presented the plans and developments to date and the Building Committee made the following recommendations to the CPC for use in the application to the Texas Commission on Higher Education:

1. Approved the site.
2. Approved the floor plans.
3. Approved the elevations.

In addition, authorized M. L. Pennington to sign the application for matching funds.

(The Board of Directors approved.)

2913. Dormitory Expansion

A. Long-range Plan

Agreed that the long-range housing plan must go hand-in-hand with the long-range study for the college proper. (Materials which were studied prior to the Board meeting but not included in any of the material submitted, are attached to and made a part of the Minutes in order to be recorded. (Attachments Nos. 553, 554, and 555, pages 1656, 1657, and 1658)

B. September 1, 1967

Approved a major project to be ready on September 1, 1967, with specific steps to be made for implementation at the meeting on February 13, 1965.

The project is to be on campus and as close to the College as possible. The CPC is to make a recommendation on the size. It is not necessarily to be an overall new scheme. Private financing should be checked in order to leave room for private housing to enter the picture.

The facilities will be required regardless of the long-range plan for the College, which will depend, to some extent, on the stated policy.

C. September 1, 1966

By consensus, accepted the statement made by the CPC that no specific recommendation be made at the moment.

D. September 1, 1965

Approved the use of West Hall again for women's housing.

(The Board of Directors approved.)

2914. Dormitory and Dining Facilities (Project CH-Tex-150(D))

Units B and C (CPC Nos. 72-62 and 73-62)
(H. A. Lott, Inc., \$2,788,420.40 - August 1, 1964;
\$3,513,215.13 - August 1, 1964)

Walks, Drives and Parking Lots

Walks (Frank Hodges, \$37,139)

Approved the final acceptance date of
November 10, 1964.

(The Board of Directors approved.)

2915. Medical School

Approved the site for the Medical School across the street from the Methodist Hospital, if it is situated on campus.

(The Board of Directors approved.)

2916. Museum

Mr. Howard W. Schmidt, representing the Associated Architects & Engineers, presented the plans and developments between his group and the West Texas Museum Association which had been presented to the Campus Planning Committee on December 8, 1964.

While additional study needs to be done on the site and arrangement, there is a pressing need for site, floor plans and elevations for the industrial unit in order that a brochure may be prepared by mid-January for presentation to the Ginnners' Association to raise funds and a cut-away model for the main unit showing the interior and exterior to be used for fund-raising purposes also.

The Committee approved the idea to proceed on the developments needed for the industrial and main units.

(The Board of Directors approved.)

2917. Parking StudyA. Ports of Entry

Instructed the preparation of a fairly precise plan for ports and the use in connection with the overall campus parking and traffic operation. It should be a rather complete and concrete report, including the overall details of operations.

B. Guidelines

The guidelines to be established would be dependent on the study in connection with the ports of entry.

(A thoroughly objective study of how much parking space can be installed close in, even at the expense of some aesthetics, should be prepared.)

(The Board of Directors approved.)

2918. Utilities

At the meeting with the Building Committee on Friday evening, it was decided that it would not be well to pursue publicly the total utility concept. It would be extremely expensive to install and not enough information is known at the moment to proceed. It was, in effect, tabled and no request was made to bring it up again.

M. L. Pennington
Chairman

The meeting adjourned at 10:00 p.m.

Campus Planning Committee
 December 11, 1964
 Attachment No. 552
 Item 2910

TEXAS TECHNOLOGICAL COLLEGE
 Lubbock, Texas

Office of the Vice President
 for Business Affairs

November 7, 1964

M E M O R A N D U M

TO: Mr. J. Roy Wells

SUBJECT: Signs on the Various Buildings on Campus

Docket Item

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At 2 p.m. on November 3, 1964, the bids were opened and read aloud in the presence of five interested persons in Room 120 of the Administration Building. A copy of the bid tabulation is attached.

The low bidder was the Colonial-Hites Company, 228 Parson Street, West Columbia, South Carolina, in the amount of \$4,654.19.

A recommendation was made to the members of the Building Committee that the contract be awarded to the low bidder, and the voting was as follows:

Mr. Wilmer Smith, Chairman	"Aye"	November 5, 1964
Mr. Harold Hinn	"Aye"	November 6, 1964
Mr. Herbert Allen	"Aye"	November 6, 1964

The award will be included in the Minutes of the Campus Planning Committee, in order that it may be of record there also.

M. L. Pennington
 Vice President for
 Business Affairs

MLP:g

Enclosures

Copies to:	Mr. Wilmer Smith	Mr. E. J. Urbanovsky
	Mr. Harold Hinn	Mr. Nolan E. Barrick
	Mr. Herbert Allen	Mr. R. L. Mason
	Mr. Manuel DeBusk	Mr. O. R. Downing
	Dr. R. C. Goodwin	Mr. John G. Taylor
		Mr. R. B. Price

Campus Planning Committee
December 11, 1964
Attachment No. 553
Item 2913A

TEXAS TECHNOLOGICAL COLLEGE
P. O. Box 4639
Lubbock, Texas 79409

Office of the
Director of Residence Halls

December 4, 1964

Mr. M. L. Pennington
Vice President for Business Affairs
Texas Technological College
Campus

Dear Mr. Pennington:

Based on estimated figures supplied by Mr. Taylor and Miss Clewell, and assuming that 30% would be a maximum number of female students who will be entering as Freshmen or Transfers, but are either married, local women or commuters, I have computed a cost of residence halls we would need to provide adequate housing for women from 1965-66 through 1972-73.

A second calculation takes into consideration housing one-third of the estimated student body for the above period of time.

A third calculation takes into consideration housing fifty percent of the estimated student body for the above period of time.

With the increase in labor and materials, I am using an estimated per space figure of \$4,200. This figure was recommended by Nolan Barrick.

MEN

Year	Estimated Enrollment	Increase in Enrollment	50% of Increase	Cost of 50% Increase	33% of Increase	Cost of 33% Increase
1964	8,730					
1965	9,353	623	312	\$1,310,000	208	\$ 873,600
1966	9,758	405	202	848,400	135	567,000
1967	10,870	1,112	556	2,335,200	371	155,820
1968	11,336	466	233	978,600	155	651,000
1969	11,753	417	208	873,600	139	583,800
1970	13,105	1,352	676	2,839,200	451	1,894,200
1971	14,236	1,131	565	2,373,000	377	1,583,400
1972	15,088	852	426	1,789,200	284	1,192,800

WOMEN

Year	Estimated Enrollment	Increase in Enrollment	70% of Increase	Cost of 70% Increase	50% of Increase	Cost of 50% Increase
1964	5,097					
1965	5,647	550	385	\$1,617,000	275	\$1,155,000
1966	6,247	600	420	1,764,000	300	1,260,000
1967	7,197	950	665	2,793,000	475	1,995,000
1968	8,447	1,250	875	3,675,000	625	2,625,000
1969	9,747	1,300	910	3,822,000	650	2,730,000
1970	10,940	1,193	835	3,507,000	597	2,507,400
1971	11,973	1,033	723	3,036,600	516	2,167,200
1972	12,955	982	687	2,885,400	491	2,062,200

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Mr. M. L. Pennington

Page 2

December 4, 1964

STUDENT BODY

<u>Year</u>	<u>Estimated Enrollment</u>	<u>50% of Student Body</u>	<u>Spaces Needed Each Year For 50%</u>	<u>Amount Needed Each Year For 50%</u>
1964	13,827			
1965	15,000	7,500	353	\$ 1,482,600
1966	16,005	8,003	503	2,112,600
1967	18,067	9,034	1,031	4,330,200
1968	19,783	9,891	857	3,599,400
1969	21,500	10,750	859	3,607,800
1970	24,045	12,023	1,273	5,346,600
1971	26,209	13,104	1,081	4,540,200
1972	28,043	14,022	918	<u>3,855,600</u>
				<u>\$28,875,000</u>

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Campus Planning Committee
December 11, 1964
Attachment No. 554
Item 2913A

MEMORANDUM
FROM
OFFICE OF THE VICE PRESIDENT
FOR BUSINESS AFFAIRS

Texas Technological College
Lubbock, Texas

TO: Mr. Taylor DATE: December 7, 1964

Would we have enough funds on hand to cover the movable equipment for a dormitory complex for some 3,000 students in order to file an application in June and probably another in July of next year? I would estimate the cost of the 3,000 spaces at somewhere between \$12 and \$13 million, probably closer to \$13 million.

Would we have to have all of the money for the movable equipment at the time of the reservation of funds?

Any other thoughts you might have in connection with the possible financing would be helpful, and I would like to have the information before the Board Committee meetings start on Friday.

M. L. Pennington
Vice President for
Business Affairs

MLP:b

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Texas Technological College
Lubbock, Texas

MEMORANDUM
From
OFFICE OF THE BUSINESS MANAGER

TO: Mr. M. L. Pennington

DATE: December 9, 1964

Our best estimate at this time shows we could accumulate as much as \$350,000 by the time we would have to buy the movable equipment in the spring and summer of 1967. Using \$145 per student as the cost for movable equipment, the average of Units A, B and C, we would have enough funds for 2,413 students.

Since this would not leave us any reserve for operating contingencies, we probably should say we could finance movable equipment for 2,000 students.

These 2,000 spaces at \$4,200 per space for the residence halls would call for a loan of \$8,400,000.

John G. Taylor
Business Manager

JGT:b

Campus Planning Committee
 December 11, 1964
 Attachment No. 555
 Item 2913A

TEXAS TECHNOLOGICAL COLLEGE
 Lubbock, Texas

Office of the Business Manager

December 8, 1964

Summary of Noon Classes
Fall Semester 1964

Number of Students	1,012
Number of Lecture or Lab Sections	34

Schools and Departments

Agriculture

Agronomy and Range Management	1 section
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Arts and Sciences

Air Science	2 sections
Chemistry	2 sections
Education	5 sections
English	3 sections
Foreign Languages (Spanish)	1 section
Physical Education	6 sections
Physics	11 sections

Business Administration

Business and Secretarial Administration	2 sections
Economics	2 sections
Finance	1 section