

SEEK NEW GYM AT K. U.

WOMEN'S ATHLETICS WOULD BE
HOUSED IN STRUCTURE.

Present Building Would Be Re-
leased Entirely for Men—Ex-
pansion Would Permit
New Sports.

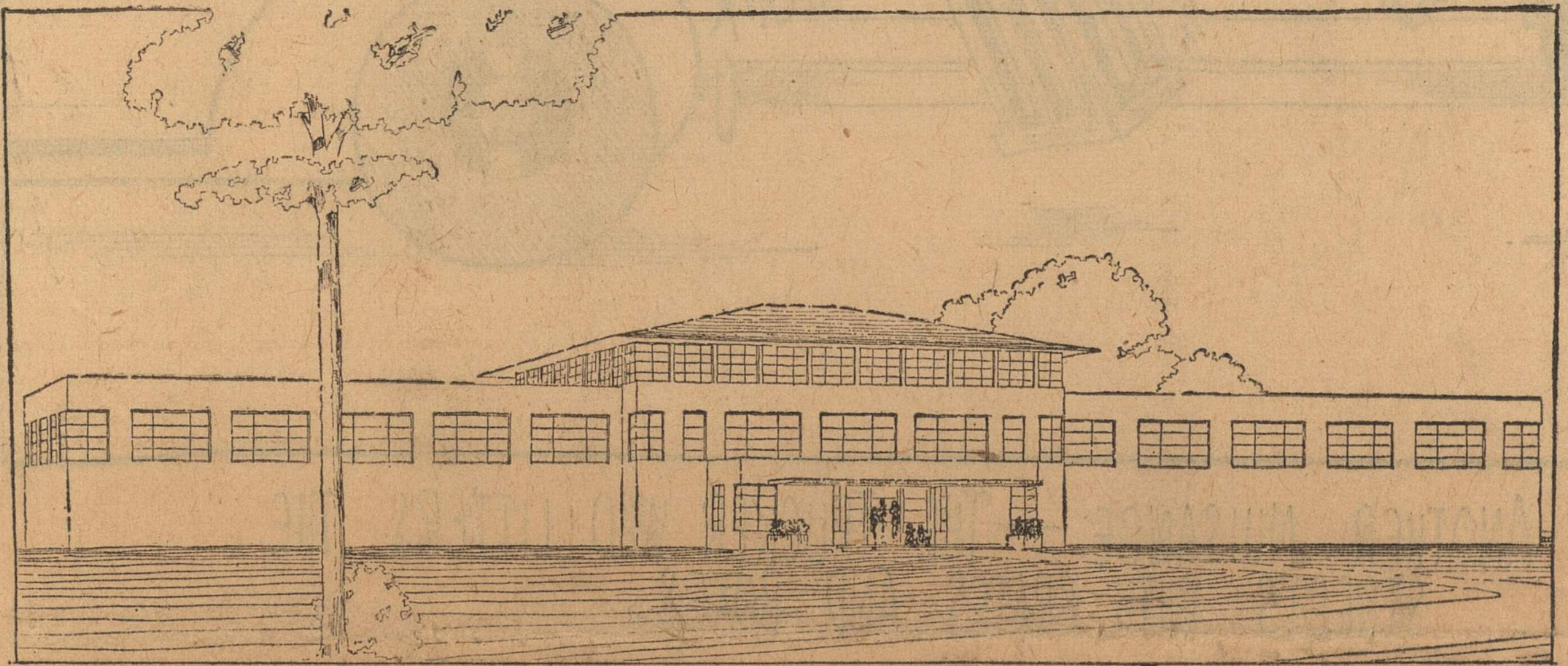
(By The Star's Own Service.)

LAWRENCE, KAS., July 16.—A new gymnasium for women is being contemplated on the University of Kansas campus. Plans for the new building will be submitted to a special committee of the Jayhawker athletic board along with claims of need for a field house, more practice fields for the Kansas football team and additional tennis courts for the campus.

Basing his claim for the need of a new gymnasium on the number of students at K. U., Dr. F. C. Allen, chairman of the department of physical education, stressed that there are as many women in the university now as there were men and women at the time the present Robinson gymnasium was erected.

“By erection of a woman's building,” Dr. Allen said, “the present gymnasium would be released for the men's general exercise and physical education program at the university.”

Miss Ruth Hoover, in charge of women's athletic activities, said the objectives of the new building would be to provide more sports than now



AN ARCHITECTURAL CONCEPTION OF THE PROPOSED NEW WOMEN'S GYMNASIUM AT THE UNIVERSITY OF KANSAS.

possible, notably archery, bowling and the like. By additional gymnasium space, she said, it would be possible for the women to have their intramural indoor games in the afternoon instead of having to divide time with the men and often schedule games for late evening hours.

Miss Hoover visualizes a gymnasium with class rooms, corrective rooms, a dance studio with stage; roofs fitted like steamer decks for badminton, darts, deck tennis, shuffleboard and tennis; a lounge with kitchenette to provide study room, and a place for teas, parties, committee and club meetings.

Tentative plans call for a central building about 80 by 100 feet, with class rooms, offices, locker rooms and the like on the three floors and basement. At either side of the central part would be two wings, each 80 by 110 feet, and each containing a gymnasium on its main floor. In the basement of one wing would be a 75-foot swimming pool, and in the other a bowling alley, archery and shooting gallery.

The suggested location for the new gymnasium is south of the present Robinson gymnasium, near the present women's hockey fields.

23-6-F

September 9, 1938.

Mr. Maurice L. Breidenthal,
Security National Bank,
Kansas City, Kansas.

Dear Maurice:

I have been bothering you with a lot of correspondence, sending you the letter that I had previously written to Dean Stockton regarding our preference to constructing a Women's Building here over all of our other building activities contemplated.

I have been wanting to run up and talk with you about the matter because we have a scheme whereby we can fit the men's gymnasium into a physical education building very cheaply, and if we could have a Women's Building it would free this building for our physical education program, and it would make the men's athletic and physical education program quite complete, unless at some time the Athletic Association would want to build a field house.

You will remember that I told Dean Stockton that the auditorium was built for basketball and for an auditorium, but since we have had so much difficulty in getting to practice there I would much prefer to continue under the present arrangement than to take chances on a field house where indoor track and football would naturally want to spend the same time we would want in practicing basketball. So you can see my logic in wanting to stick to the program we have, especially since a larger field house would be rung in under the guise of a men's gymnasium when actually it would be a field house for competitive athletics, and the men in physical education would not get the play that they should.

With the women out of Robinson Gymnasium we could enlarge our swimming pool by lengthening the pool toward the women's side and toward the shower baths. This would give us a regulation swimming pool for all activities, and would make an ideal building to head up our new program in the four-year physical education course.

Professor F. A. Russell, of the School of Engineering, went with me to the State Architect's office last week. It was the day that Mr. Hall, the State Architect, was waiting upon the Board of Regents, in session at that time. I did not get to meet Mr. Hall, but I met his assistant who is an Aggie graduate and an excellent fellow. There is a plan whereby we can floor the top of the gymnasium above the steel girders that will give us six rooms 6' by 36'. It would be necessary to build dormer windows in the

roof of the gymnasium and we would have our stairway up from the corners of the running track. These rooms could be used for research and class rooms and would make Robinson Gymnasium a wonderfully well-planned and complete building for our set-up.

I talked to Dean Crawford, of the School of Engineering, who was out in Colorado, and he states that at Colorado they are finishing the fourth floor of all the buildings there rather than to leave the attic unfinished, thereby cutting the cost very definitely of each building. I think he said that they were building out there by this new plan at a cost of about 27¢ per cubic foot.

They are planning on re-wiring this building soon, and that floor above the girders would not interfere in the least with basketball and it would form a floor whereby the lighting could be arched in the floor, making it not only much safer but reducing the hazard of those men who are required to climb out on many steel girders to service the drop lights that contain about twelve incandescent bulbs.

The assistant state architect said that he would of course have to study the trussings and strain on the girders to see whether they would carry the load, but I told him that in 1923 we had 3115 paid admissions in that building and the majority of the people sat in the balcony because we had seventeen tier bleacher seats running from the balcony to the four corners of that building close up to the roof, and we had seven and eight tier bleachers on the sides in the balcony. In other words, the balcony contained more people than it was possible to seat on the first floor.

I said we had 3115 paid admissions, and for all athletic contests it is an easy matter to add ten per cent on the attendance on account of the Annie Oakley's. That would make about 3425 people, so I am very sure of the strain and durability of the trusses to carry that extra load.

As I said, these rooms could be used as class rooms, and also for handball rooms for the faculty and students, but we would never have any great number of people in the gymnasium comparable to the time when our basketball games were in progress. And another thing, Maurice, we did not have fire escapes at that time on the building, but we have now. And too, in physical education we are developing research work, and this large space up there divided into the six rooms 6' by 36' would give us space for research that we do not have now.

When the women moved out we would utilize the offices on the east side of the gymnasium which are now occupied by the women. The Director of Athletics has the front office on the west side and the women have the east front offices, so naturally we are in the position

of taking the back rooms here. By freeing those rooms we could move across on the other side and the women would have their space in the Women's Building.

Now, for the Women's Building. About seven years ago I went to Chancellor Lindley and told him that I was very sure that I could obtain a women's building for the women of the University of Kansas if he would permit me to go ahead. I told him that Mrs. W. Y. Morgan wanted to do something in commemoration of her husband and that she was willing to build some sort of a memorial at the University. Some of the women had talked to her and she thought of a swimming pool or some other memorial. Mrs. Luther Lewis, Mrs. J. B. Watkins, and other women have been approached regarding the women's building, and Mrs. Lewis is very enthusiastic about it, and suggested that Mrs. Henley, a very wealthy woman here, and others, would be especially interested in a women's building. You will recall that Mrs. Watkins has given the hospital, two women's dormitories, and the nurses home here at the University.

So you can see that with the appeal of a women's building for women only, would be received with much interest. This building would include not only the necessary gymnastic features, but also bowling alleys, shooting galleries, stage for plays, lounge with kitchenette, and a study room which would provide a place for teas, committee and club meetings. A dance studio on the third floor would have its appeal. This building, with our excellent outdoor playing facilities, will afford the women of Kansas one of the most complete instructional, recreational and social plants in the country.

Here was my idea, Maurice, and I wanted to consult with you before I would do any more. I want to raise a small sum of money extraneous of University activities and have a small brochure printed setting forth some contemplated drawings of the building and also showing the women's gymnasia of Colorado, Missouri, Nebraska, Oklahoma and Stanford. We are the last to provide the women of Kansas with any separate play and social media.

Confidentially, the Negroes have taken over the Union Building and the women do not feel free to use that except for dances when the other color is not admitted. You can go over any time during the day and find a mixed group of colored people absorbing most of the features of the Union Building.

Now in short here was my plan, - to go to the presidents of the various women's clubs and sell them the idea and then let them take the thing in hand and go to it. I know that it will go like wild fire. But I do not want to continue anything that will embarrass anybody, and I want your counsel.

When I was with Mr. Russell in Topeka we stopped at a blue print shop there on Kansas Avenue, and Mr. Russell showed me the blue print of the proposed medical building that Dr. Snyder is pushing strenuously. I understand they plan the medical building for the west

corner of the campus, facing the Alpha Chi Omega house. We had thought of the Women's Building between Fowler Shops and Robinson Gymnasium, just west of the greenhouse. This would be accessible to the campus, and yet not too far removed but what the women's hockey and intramural field would be within easy reach. I have talked it over with Mr. Russell and he thinks this is the ideal location for it. Of course, all the women in physical education are strong for this location.

I just know that we can build this building, Maurice, and the women of Kansas will unite on this thing because they will be giving the Kansas women a much needed building. Just think of it - when Robinson Gymnasium was built there were only 87 more students enrolled at Kansas than there are now women enrolled on Mt. Oread. These figures were taken from last year's enrollment, and if our enrollment increases this year that 87 will diminish somewhat according to the women's enrollment. And there has been a great growth of recreation and physical education activities since 1906. This depression has advanced the cause of recreation and physical education twenty years ahead of what it would have been if we had not had the depression. But it is not necessary for me to tell this to a man who gets over the country and sees things with the clarity that you do.

After you have read this letter carefully I would like to hear from you, and if you have the time I would like to go over the proposition in person with you. I am frank enough to admit to you that we would not have a Chinaman's chance unless we had a very good friend in court, and I am cognizant of the fact that our building would not have been put in the hopper unless there were people who had our interests at heart.

I will await your reply with much interest.

With all good wishes, I am

Very sincerely yours,

Director of Physical Education,
Varsity Basketball Coach.

FCA:AH

28-6-A

October 5, 1938.

Chancellor E. H. Lindley,
University of Kansas.

Dear Chancellor Lindley:

I have your very kind favor of the 3rd instant concerning the Women's Building. My letter, of course, was written to Dean Stockton along early in July.

After the meeting of the Board of Regents here in Lawrence Mr. Raymond Nichols called me up and asked for plans that we had in regard to the gymnasium, saying that the Board of Regents at their session had asked that this building be included in their present list. I think Mr. Nichols put it in as "gymnasium", but all of our specifications and drawings are for the "Women's Building". I feared there might be a misunderstanding.

I am convinced that this new women's gymnasium, which we call "Women's Building", will do a complete job for us, so far as physical education indoors is concerned. It will give the women a set-up that they have long needed, not only from a physical education and recreational standpoint, but also from a dramatic and social point of view.

Doubtless you have been too busy to study the plans as they were outlined, but the Women's Building would have a dance studio where a stage and lighting effects would be set up for dance programs and exhibitions. A regulation swimming pool, bowling alleys, archery and rifle ranges would also be features of the building. The unusual type of construction of this building, which is in conformity with most modern women's gymnasiums, provides for courts for badminton, darts, deck tennis, shuffleboard and tennis on the decks of the two wings. In other words, every foot of space both inside and outside of this very modern building would be used.

There are many women of Kansas - prominent women, in fact, who desire to make sizeable contributions as memorials. Some have discussed a memorial swimming pool; others a memorial this and that. In fact, this has gone much past the stage of discussion. We have two very prominent women in the state who want to do something and neither one of them are local benefactors.

Aside from the great need and desire for this Women's Building, the erection of such a building will free the present Robinson Gymnasium for a most complete building for the administration of our new physical education program. This building with a small expenditure could be made into an excellent physical education building. The trend of the times is in this direction, and the expansion in the next few years will be pronounced. It is for that reason that I am looking ahead, knowing full well that it would be a number of years before we could obtain from the legislature a building specifically designed for physical education purposes.

I am constantly in touch with the national physical education leaders, and I believe I can pretty thoroughly detect the trend of the times in progressive physical education.

Very cordially yours,

Director of Physical Education,
Varsity Basketball Coach.

FCA:AH

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WOMEN'S PHYSICAL EDUCATION BUILDING

The Women's Building will provide facilities for many activities that have heretofore been very limited. One of the outstanding features is the 75 foot swimming pool with standard diving boards and equipment. The bowling alleys will introduce an entirely new activity to our curriculum, one which has been very popular in other schools where the equipment has been available. The rifle range, indoor archery and golf cages will permit the introduction of these courses during the winter months.

The large gymnasium will provide ample space for the gymnasium classes and team sports, such as basketball, volley ball and softball. Intramural games will not have to be played at night, but at 4:30 in the afternoon.

On the roof of the two wings as well as on the gymnasium floor will be laid out courts for badminton, darts, deck tennis, shuffleboard and tennis. The lounge with the kitchenette provides a study room, a place for small teas, parties, committee and club meetings.

Adequate airy locker space, dressing booths, showers, toilets, and hair dryers have been planned. The corrective room will be provided with the latest equipment for the remedial work of the students. The dance studio on third floor with its many windows will be set up with a stage and lighting effects for dance programs and exhibitions. The class rooms will be used for the theory classes and lecture work.

This building, with our excellent outdoor playing facilities, will afford the women of Kansas one of the most complete instructional, recreational and social plants in the country.

J

September 20, 1941.

Chancellor Deane W. Malott,
University of Kansas.

Dear Chancellor Malott:

Mr. Bayles, Mr. Compton and Mr. Babb came in to ask me to set out some of the things that we are in need of. I am sending you a copy of my letter to Mr. Bayles for your perusal.

I understand that this committee is looking forward to the time when the mustering out of service will leave millions of men unemployed and these projects are to take up the slack of non-employment.

I did not mention the matter or method of raising funds for certain of these projects. I simply listed them. If and when an individual or a committee is interested, I believe that I have some definite ideas on this subject, also.

Sincerely yours,



Director of Physical Education and Recreation,
Varsity Basketball and Baseball Coach.

FCA:AH

Women's Gym Seasons

~~Repair~~ Remove old = Lawn Park

New Swimming Pool Glass Top Natatorium
Teacher Training

Phy Ed Major

Dean Smith

Field House

Phy Ed Bldg Gym old

Holdings Co. \$200,000
Compuite Tower
Tennis Courts

Intra-mural Robinson Farm

Egnitiation Memorial
Naismith Field Palestra

Winter Skating

Summer Recreation

H

September 20, 1941.

Mr. C. G. Bayles,
Superintendent,
Buildings and Grounds,
University of Kansas.

Dear Mr. Bayles:

Pursuant to your request as of September 17th in which you asked me to submit projects for the Works Progress Reserve, I am listing the buildings and other facilities in order of their importance to the University physical education program as I see it.

Women's Building \$250,000.

Robinson Gymnasium, as you know, was built in 1906 when the enrollment was 1200. We now have an enrollment of over 4,000, and we are endeavoring to take care of the greatly enlarged athletic and physical education department, as well as our new major program in physical education. This building is used from early morning until past eleven o'clock at night from Thanksgiving until April or May.

May I sketch a slight history of the situation since I came to the University as Director of Athletics in 1919. The basement was chock-full of lockers and each individual student put his gymnasium equipment in his locker. With the sweaty clothes this made a very unhygienic condition. There was a long exercise room on the north end of the gymnasium which the boys used for shot-putting and other track sports. The floor was of cinders.

The enrollment in the women's department grew so rapidly that it was found necessary to give that over to the women for their additional locker space. Consequently we put a permanent brick wall in, taking away some of the space from the men and giving it to the women who needed it more.

I am submitting a copy of the Summer Session Daily Kansan of July 8, 1938, which shows a sketch of the proposed Women's Building. This drawing was supervised by Professor George M. Beal on a CSEP project. The proposed building will afford the women of Kansas one of the most complete instructional, recreational and social plants in the country. It is an imperative women's need at the University of Kansas.

About ten years ago I went to Chancellor Lindley and told him that I was very sure I could obtain a women's building for the women of the University of Kansas if he would permit me to go ahead. I told him that Mrs. W. Y. Morgan wanted to do something in commemoration of her husband and that she was willing to build some sort of a memorial at the University. Some of the women had talked to her and she thought of a swimming pool or some other memorial. Mrs. Luther Lewis was also approached and she was very enthusiastic about it, and suggested other well-to-do women in the state who would be especially interested in a women's building. You will recall that Mrs. Watkins gave the hospital, the nurses' home, and two women's dormitories to the University.

The Women's Building will provide facilities for many activities that have heretofore been very limited. One of the outstanding features is the 75 foot swimming pool with standard diving boards and equipment. The bowling alleys will introduce an entirely new activity to our curriculum, one which has been very popular in other schools where the equipment has been available. The rifle range, indoor archery and golf cages will permit the teaching of these courses during the winter months.

The large gymnasium will provide ample space for the gymnasium classes and team sports, such as basketball, volley ball and softball. Intramural games will not have to be played at night, but at 4:30 in the afternoon. On the roof of the two wings as well as on the gymnasium floor will be laid out courts for badminton, darts, deck tennis, shuffleboard and tennis.

The lounge with the kitchenette provides a study room, a place for small teas, parties, committee and club meetings, and so forth. Adequate airy locker space, dressing booths, showers, toilets and hair dryers have been planned. The corrective room will be provided with the latest equipment for the remedial work of the students. The dance studio on the third floor with its many windows will be set up with a stage and lighting effects for dance programs and exhibitions. The class rooms will be used for the theory classes and lecture work.

We felt the ideal location for this building would be between Fowler Shops and Robinson Gymnasium, just west of the greenhouse. This would be accessible to the campus, and yet not too far removed from the women's hockey field and intramural fields.

Repairs on Robinson Gymnasium

If and when we have a Women's Building Robinson Gymnasium should be used as a laboratory for teacher training in physical education. The classrooms and facilities are adequate for such a thing. It has always been a very questionable procedure to admit the students of Oread Training School in a building where adults occupy it almost wholly. This new arrangement would be ideal. The Athletic Office which is merely a ticket office should be moved to some quarters where tickets could be available for students, and the front office should be used for adminis-

trative offices for our Physical Education staff. The women's department have the east end and we need the west end. We are badly cramped but can do nothing about it at present.

The old swimming pool is practically beyond repair. If any attempt were made to extend the length of the pool it would take the women's dressing quarters, and too I believe that there is a permanent wall that would hamper such procedure. I would suggest that the shower space be enlarged and the space where the swimming pool is now could be utilized for that. A tunnel could be provided leading out under the parking area south of the gymnasium and a glass-topped natatorium be built between the greenhouse and the handball courts.

The estimated cost of this natatorium would be . . . \$100,000.

Naismith Memorial Palestra \$600,000.

The next thing in order of importance is a Naismith Memorial Palestra. The cost of this would be at least \$600,000. Half of this, at least, could be raised by national subscription.

I spoke to Dr. Naismith after his retirement some years ago telling him that we wanted to build a memorial for him some day, and I asked him where he would want it - whether at Kansas, California, or Springfield. He told me that since he had lived most of his active life in Kansas he desired it here. He said he had thought quite a bit of going to California, but decided he wanted to spend the rest of his days in Kansas.

This Palestra could be the mecca of all basketball courts of the world. Kansas has established a reputation for basketball through the long years of Dr. Naismith's active life at the University.

At the present time the Naismith Memorial Committee of 271 Madison Avenue, New York, is promoting the Naismith Memorial Hall of Fame for Springfield College. This should not in the least interfere with our project when we are ready to move. The basketball arena for the future should be located in this Naismith Memorial Palestra, and it should seat at least ten thousand people.

Field House

A field house should be built east of the stadium. Penitentiary brick could be used and stuccoed, and the field house could be the same contour and shape as the stadium. The boiler room and all could be located in the field house. It should have a dirt floor and should take care of track, football and baseball. A large swimming pool should be located in the field house if the natatorium is not built adjacent to the gymnasium. Dormitories and rooms could surround the field house and make it possible to receive donations from generous alumni and friends who would be interested in a physical education building and dormitory.

Intramural University Play Fields,
Golf Course, Swimming Pool and Tennis Courts \$75,000.

With the rough terrain on Robinson Farm a beautiful 18-hole golf course, a club house, tennis courts and swimming pool could be built on this fine location. The Yale play field is several miles out of New Haven, and Robinson Farm presents more possibilities than the Yale set-up, because not only is Robinson Farm more accessible but the rough ground could be utilized for a golf course without the expenditure of a great deal of wealth.

Iowa State College built a \$75,000 golf course on their farm. I am sure that certain parties could be interested in a large recreational project that would make this feasible. The topography of Mount Oread makes adjacent play fields impossible. Therefore, this ideal situation should become a reality in 25 or 40 years.

Tennis Courts and Handball Courts \$45,000.

There is a great demand for handball courts. It is one of the great indoor and outdoor games and we have an ideal location for these courts just south of the gymnasium. The gymnasium serves as a windbreak and the courts could be utilized eleven months in the year. The plan is for concrete outdoor handball courts using the three walls with no top and a short shoulder between courts which breaks down, lending a type of architectural beauty to the gymnasium environment. The estimated cost of these eight handball courts is \$5,000.

Most of the universities in the Big Six Conference (Oklahoma, Nebraska, Missouri and Iowa State) have concrete tennis courts. All of the championship games in California are played on Concrete tennis courts. Such courts are comparable to concrete highways and gravel roads in maintenance costs. We plan to use the unit construction method in building the concrete tennis courts, replacing the twenty-four courts we now have. Each court will cost about \$1600, as estimated by Professor F. A. Russell.

Holding companies \$200,000.

From 1921 to 1936 the Athletic Association bought the intramural field south of the hill, houses and lots, to keep the public from encroaching upon the University domain. We have talked with J. C. Nichols, Chancellor Lindley and other people regarding a holding company organized for \$200,000 to purchase the three blocks between Mississippi and Maine from 10th to 11th streets. We discussed the project of buying all those houses and lots and moving the houses off to adjacent vacant lots so that the entire three blocks would be clear. Some streets would be closed, and we would build a large campanile tower and tennis courts, properly landscaped. This would provide a beautiful entrance to Memorial Stadium and would set out the front of the University in unusual style.

In this connection we had planned a tennis stadium south of the open end of the present concrete horseshoe. This tennis stadium would be a replica of the large Memorial Stadium. No one would sit in it but it would fit back into the hill in such a way that the closed entrance would face north. The top would serve as a base platform in which a steel frame would be erected which would support an awning and these seats would overlook the varsity courts much after the manner of grandstand seats.

With this location in Kansas we could get players with national reputation on the way from coast to coast and develop not only a fine brand of tennis but we could add to the beauty as well as the utility of the place. The steel work and awning would be taken down during the fall and winter but would be only put up during the spring and summer. There would be no interference with the beautiful south view from the large Memorial Stadium location.

Lawn Bowls \$1,300.

This sport has long been an eastern activity where it is laid out in parks and large playgrounds. There are two possible places for it - one on the quadrangle (\$300.00) and the other north of Frank Strong Hall (\$1,000.00), or both. I would suggest bluegrass for the quadrangle and bent for the Frank Strong Hall location. The reason for the difference in the cost is because the sprinkler system together with drainage would have to be supplied for the bent grass. The Fowler Grove location happens to fit into the axis of the new quadrangle, and by using bluegrass there it could be discontinued at any time, so the expense is not great.

The Lawn Bowls court in the quadrangle would also fit in the fine summer recreation program without any added expense. The court there would add much to the beauty and discourage the cutting across the campus. We would discourage the highly competitive games, such as Goal-Hi at this end of the quadrangle, and make it more of a recreative feature for the men and women who like to sit out and enjoy life's more mature activities.

Winter Outdoor Skating Rink

The flooding of a rink area on the intramural field would provide safety in our winter skating activity. By utilizing the floodlights that we have for our Summer Session recreation we could light this area and have the switch connections located at the power plant. We could control the situation very nicely. Someone has estimated that we have from two to six weeks skating every winter. My idea was to have an attendant there who would build log fires and police the situation as any other activity would be policed. It is possible that a charge of ten or fifteen cents could be made for skating.

Summer Recreation \$500.

We have lived out of the junk yard so long that we would hardly know how to act with any new equipment. Practically all of the summer recreation equipment has been built by buying second-hand stuff and making it over.

No one single factor has produced as much good will for the University in a general way as has the summer community recreation center. Five hundred dollars will provide additional play facilities that would not mar the appearance of the beautiful quadrangle and yet would enhance the hours of pleasure and enjoyment by a thankful public.

I trust that some of these projects will strike a responsive chord in the heart of this committee. Some of these promotions I have dreamed about for over twenty years. I am fast becoming to have the philosophy of the Chinaman who said, "I am not sure whether I am dreaming life or living dreams."

Sincerely yours,

Director of Physical Education and Recreation,
Varsity Basketball and Baseball Coach.

FCA:AE

September 20, 1941.

Chancellor Deane W. Malott,
University of Kansas.

Dear Chancellor Malott:

Mr. Bayles, Mr. Compton and Mr. Babb came in to ask me to set out some of the things that we are in need of. I am sending you a copy of my letter to Mr. Bayles for your perusal.

I understand that this committee is looking forward to the time when the mustering out of service will leave millions of men unemployed and these projects are to take up the slack of non-employment.

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Sincerely yours,

Director of Physical Education and Recreation,
Varsity Basketball and Baseball Coach.

FCA:AH

August 12, 1938.

Mr. Gavin Hadden,
607 Fifth Avenue,
New York City, N.Y.

Dear Mr. Hadden:

Thank you very much for your good letter of August first.

I believe the discussions of the new field house and the gymnasium for women are in the early stages of development. Mr. Gwinn Henry is the Director of Athletics at the University of Kansas now, and the field house project would come under his domain.

The women's physical education building, of course, is under my promotion, and I am endeavoring to do all I can to bring that about.

I received several letters from you while I was Director of Athletics, and I always enjoyed hearing from you. I assure you as soon as we get along past the promotional stage I will be glad to discuss the situation with you relative to the construction of the women's gymnasium.

Very sincerely yours,

Director of Physical Education,
Varsity Basketball Coach.

FCA:AH

GAVIN HADDEN
CIVIL ENGINEER
607 FIFTH AVE., NEW YORK

August 1, 1938

Dr. Forrest C. Allen
Athletic Director
University of Kansas
Lawrence, Kansas

Dear Dr. Allen:

Having heard of projects for the construction of new facilities for recreation and athletics at the University of Kansas, including I understand a new gymnasium for women, and a new field house and additional practice fields, etc. I am writing to remind you of the availability of my services to help you and the University on this work. As you may remember from our correspondence in the past, I have for some years been largely engaged in the professional work of design and supervision of construction of fields, courts, pools, gymnasia, fieldhouses, etc., and have included among my clients a number of leading universities in various parts of the country.

It may be that my services would be particularly helpful to you in co-operation with your local architects and engineers in a consulting capacity. I have so served in numbers of other cases and in this way have brought to my clients the benefit of the wide experience of my office with the numerous ~~and~~ technical problems involved, and have helped them to secure more efficient and economical results. Such consultation service is usually arranged so that the greater part of it can be rendered in my office by correspondence and the passing back and forth of sketches of unfinished drawings, etc., and in this way the cost of my service to my clients is materially reduced.

I believe I sent you a copy of a little booklet I brought out last year illustrating the work of my office during the period 1922-1937, but I am enclosing another herewith in case it is no longer at hand.

If you should wish to know more about me, I would urge you to write to any of the Institutions included in the list of clients given in the booklet, as I believe this is the best way of determining beforehand the value of professional services. It is my hope that these clients would tell you that they have found the cost of my services more than repaid in increased efficiency or economy, or both.

Dr. Forrest C. Allen

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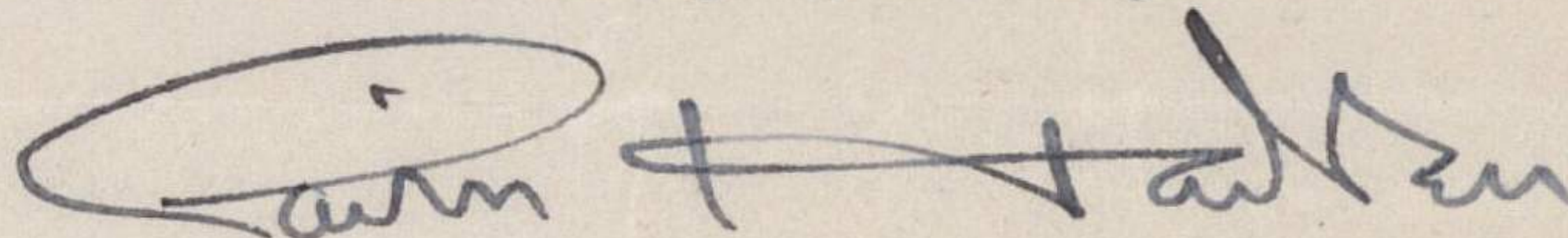
August 1, 1938

I am also enclosing copy of an article published in the "American School and University" entitled "Indoor Play Facilities for College Women". This will perhaps be particularly helpful to you and to Miss Hoover, your director in charge of women's athletics, as something of a guide in helping to determine what facilities to provide in the proposed new women's building. It is in helping to solve these problems and in helping to determine the most efficient dimensions for various combinations of activities that my preliminary services may be particularly helpful.

I should be glad to come out to Lawrence for conference with you and others who are interested at any convenient time.

Assuring you of my deep interest and hoping that I may have the privilege of serving you and your University, I remain

Faithfully yours,



GH:AK
ENCL.2

Indoor Play Facilities for College Women

BY GAVIN HADDEN, C.E.

“IN what order would you rate the following play facilities, with respect to their usefulness in a women’s gymnasium, disregarding the always present restrictions of cost and space?”

- Basketball
- Swimming Pool
- Squash
- Running Track
- Indoor Tennis
- Bowling
- Fencing
- Badminton
- Volley-ball
- Calisthenics and Dancing
- Apparatus Exercises
- Indoor Baseball
- Jumping, Vaulting, etc.
- Golf Net

“Would you suggest any other play facilities in preference to any of those listed above?”

In helping to determine recently the most desirable facilities to provide for in the design of a proposed gymnasium at a women’s college, the writer sent out to a number of women’s colleges a questionnaire containing these questions. Other questions were also asked, bringing many useful opinions on matters of design, involving primarily those features in which a women’s gymnasium differs from a men’s, but the questions set forth above elicited the most generally interesting and useful information of all.

It might be an interesting pastime for the reader to stop here and mark with numbers from 1 to 14 each of the activities (or facilities for them) which are included in the above list in his or her order of preference for a women’s college, and then turn for comparison to the list representing the collective opinion as obtained from the questionnaire, which is printed later in this article.

The Replies

Answers to the questionnaire were received from the following institutions: University of Michigan; Middlebury College; Mt. Holyoke College; New Jersey College for Women; New York University; Northwestern University; Pembroke College; Radcliffe College; University of Rochester; Smith College; Swarthmore College; Vassar College; Westhampton College (University of Richmond).

Of these, 12 gave answers, in whole or in part, to the question on the rating of the various facilities. The answers were tabulated, each being given a uniformly weighted score for each rating, and then these scores were summed up

for each item. The system used was to score in each case 1 for the item rated No. 1; 2 for the item rated No. 2; etc. Where two or more items had received the same rating, each was given the average score of the group; for example, if three items were rated No. 1, each of them was scored 2. The lower the score of any one of the facilities, therefore, the higher is its rating by the consensus.

The following tabulation gives the combined scores of the 14 different facilities, in the order given them by the 12 votes combined:

Rank	Facilities	Combined Score
1.	Swimming Pool	25
2.	Basketball	44.5
3.	Calisthenics and Dancing	45.5
4.	Indoor Tennis	70.5
5.	Badminton	75
6.	Squash	82.5
7.	Golf Net	86.5
8.	Bowling	94
9.	Volley-ball	96.5
10.	Indoor Baseball	110.5
11.	Fencing	116
12.	Apparatus Exercises	117.5
13.	Jumping, Vaulting, etc.	136.5
14.	Running Track	162.5
	Total score	1,263.0

(The total score for each 14 ratings should be 105 and $12 \times 105 = 1,260$; the additional 3 points in the total were caused by giving a score of 15 to each of two items which were definitely ruled out by one answer, instead of scoring them 13 and 14).

There are a number of points which are of special interest in this tabulation, expressing as it does the combined views of a number of experienced administrators of athletics for women. Before discussing them, however, it is worth while to point out the surprising unanimity of the answers, a fact which cannot be made clear from the tabulation itself.

The average difference for all the answers, between the ranking given for each item and the ranking shown by the consensus, was less than 2.2 places; the rankings given in one of the answers were so close to agreement with the consensus that the average difference was only nine-tenths of one place, with 6 of the 14 rankings coinciding exactly. Such unanimity would seem to indicate that the results may be regarded as unusually reliable for an investigation of this kind.

Some Individual Ratings

The markedly high place given to Swimming Pool should be particularly noted; seven of the twelve answers ranked this item No. 1, either alone or with one or more other items; the other five ranked it No. 2. Also, the low rankings given to Running Track and to Jumping and Vaulting are worthy of note. These were perhaps to

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be expected, but the relatively high place given to Golf Net and the comparatively low place given to Fencing may be considered as indicative of a somewhat unexpected trend.

The high rating of Calisthenics and Dancing also deserves comment. These two were combined in the question primarily because the same facilities are required for both; but it seems possible that if they had been given as separate items, Dancing alone might have been rated somewhat higher and might have been ranked ahead of Basketball. In one answer the two items were rated separately, Dancing being designated No. 1 and Calisthenics No. 12. In scoring this answer, the lower score (1) was given to the two combined, for it is felt that facilities suitable for both activities should be given the benefit of whichever ranking was the higher.

The second question in the questionnaire, quoted above, asked for other preferred play facilities not listed. Nine of the answers contained some suggestions of this kind, as follows, the number given with each item representing the number of answers in which it was recommended:

Indoor Archery	7
Deck Tennis	4
Handball	2
Games Room (ping-pong, quoits, shuffle-board, etc.)	2
Rifle Range	1

In addition to these, some of the answers to this question suggested facilities other than those for play (Lounge or Social Room, Corrective Room, etc.) but as these were not intended to be included in this question, and as most of those answering the questionnaire presumably realized this, the number of those making these additional suggestions has no value.

Players-per-Corter

For those planning the construction of any of the facilities for women listed in this article, it may be useful to make comparisons not only on the basis of "usefulness," but also on the basis of the relative amount of space required. Some years ago the writer prepared a graphical study of the number of players-per-acre accommodated by various popular outdoor sports, including both men's and women's activities. The variation shown by this study extended from less than one player-per-acre for polo to about 29 players-per-acre for lawn tennis. In order to obtain a similar comparison for indoor activities, the writer adopted the "corter" as a new unit of

measurement, since the acre is not suitable for measuring indoor floor areas, and there happens to be no other convenient unit available. One "corter" equals 5,000 square feet of floor area—a good round number, convenient to use and easy to remember, and approximating the area of numerous fair-sized gymnasium rooms. This unit has also the advantage of representing just about the area required for one standard full-sized basketball court, which makes it easy to visualize.

In the following tabulation, the various different games and activities are listed in the order of the number of players-per-corter which they accommodate. In calculating the figures for this table, it has been necessary to make a number of reasonable assumptions, not only as to the areas required by the participants, but also as to the number of participants in a single activity. The policy has been, in general, to use the maximum reasonable number of participants and the minimum reasonable areas, and for some of the team games (such as basketball), in which substitutions are frequent, allowance has been made by increasing the number of players taking part.

The table follows:

<i>Game</i>	<i>Players-per-Corter</i>
1. Apparatus Exercises	100
2. Calisthenics	100
3. Dancing	100
4. Running (Indoor Track)	100
5. Swimming	100
6. Volley-ball	67
7. Miscellaneous Games (ping-pong, quoits, shuffle-board, etc.)	60
8. Basketball	45
9. Archery (range)	40
10. Rifle (range)	40
11. Bowling	32
12. Fencing	25
13. Golf Net	25
14. Indoor Baseball	24
15. Deck Tennis	20
16. Handball (4 walls)	19
17. Handball (1 wall)	17
18. Squash Racquets	17
19. Squash Tennis	17
20. Jumping, Vaulting, etc.	12
21. Indoor Tennis	3

This table is a useful guide to the relative cost of the various activities, but it should be used with great care. Although the area required per player is nearly proportional to the cost for outdoor games, this is not true of indoor games, because the cost of the latter is influenced largely by other considerations also, such as headroom, roof spans, wall areas, surfacing materials, lighting, heating, ventilating, and such special installations as swimming pools and their equipment.

FROM
GAVIN HADDEN,
 CIVIL ENGINEER
 607 FIFTH AVE. NEW YORK

August 16, 1938

Gwinn Henry, Esq.
Director of Athletics
University of Kansas
Lawrence, Kansas

Dear Sir:

Dr. Forrest C. Allen has very kindly advised me that you are in active charge of the project for the construction of a new fieldhouse at the University of Kansas, and I am accordingly writing to offer my services to help you with the design of this building.

As you no doubt realize, design work of this nature differs in many features from ordinary types of engineering or architectural design and therefore my clients find experienced services such as mine particularly useful in helping them to obtain the most efficient and economical results. The enclosed copy of a little booklet which I brought out last year, illustrating some of the work of my office on facilities for recreation and athletics during the fifteen years period 1922-1937 will indicate to you my qualifications for such service. I would urge you to write to any of the institutions named in the list of clients in this booklet for their opinions of me and my services, as I believe this is the best way of determining beforehand the value of professional services. I undertake to furnish all the professional services required or else to serve in a consulting capacity in cooperation with other engineers or architects, as may be desired.

It is always more satisfactory to talk these matters over in person -- a few words of conversation, with pictures, drawings, etc. of work which I have done can always accomplish far more than correspondence. Will you not therefore please advise me of a convenient date when I may call on you in Lawrence for this purpose? I understand from Dr. Allen that he is handling the

Gwinn Henry, Esq.

-2-

August 16, 1938

project for the proposed new women's physical education building and if this and the men's fieldhouse should be preparing to go ahead at the same time, my preliminary services, and later on, my further services also (either as designer or consultant) could I am sure be arranged with particular advantages to all concerned, on both buildings at once.

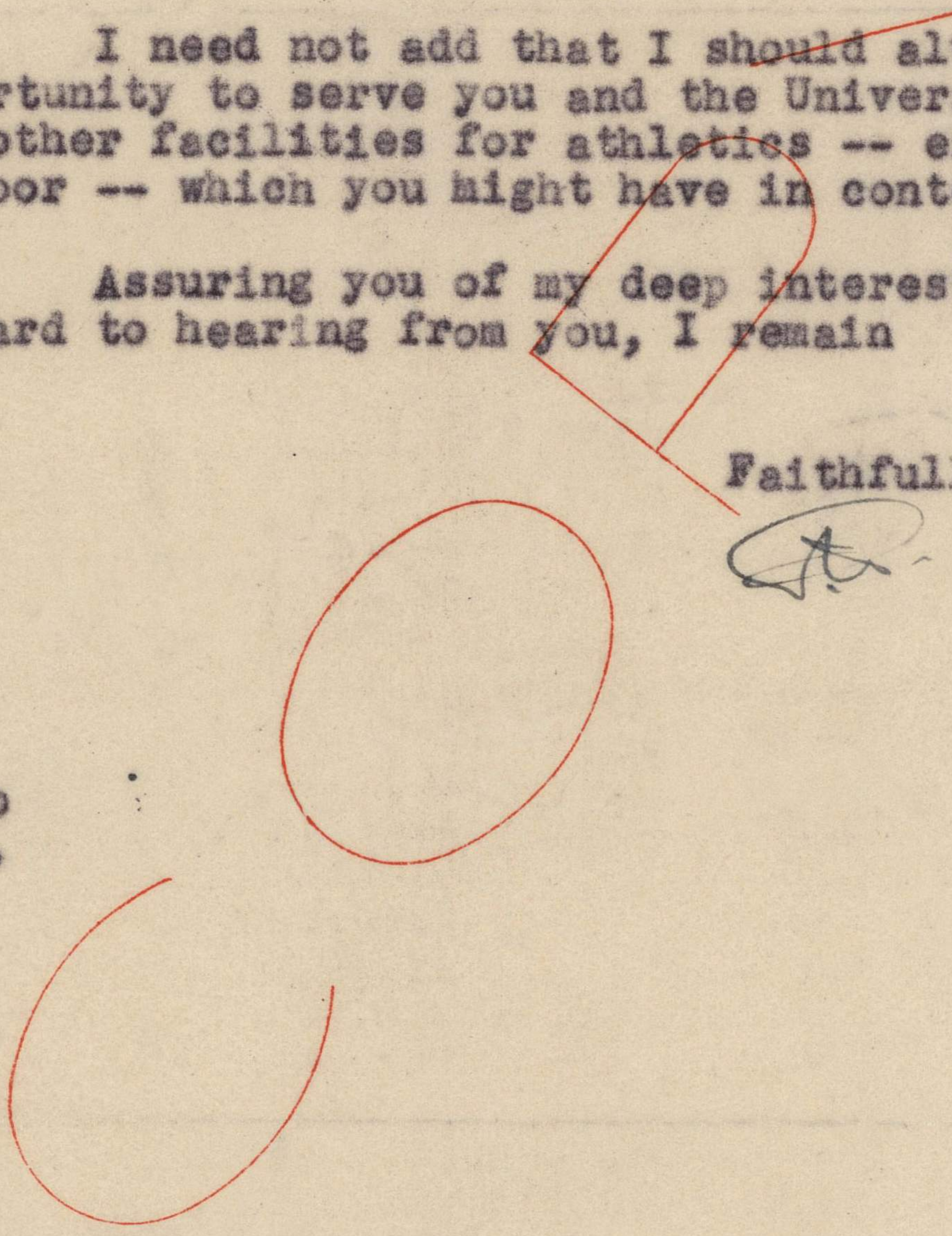
I need not add that I should always welcome an opportunity to serve you and the University of Kansas on any other facilities for athletics -- either indoor or outdoor -- which you might have in contemplation.

Assuring you of my deep interest, and looking forward to hearing from you, I remain

Faithfully yours,



GH:mb
Encl.



September 9, 1938.

Mr. Gavin Hadden,
607 Fifth Avenue,
New York City, N.Y.

Dear Mr. Hadden:

Thank you for your kind letter of August 16. It came during my vacation, which accounts for my delay in replying.

I do not believe it would be wise for you to plan on coming to the University for consultation with regard to the buildings for a while yet. Everything is still in the promotional stage, and we do not have funds for such services.

The legislature has to pass on state buildings, and of course that body does not meet until this winter. For that reason, and also for the reason that we do not have any money even for plans for our building project, I do not suggest that you make arrangements to come to the University as yet.

I shall be glad to keep your correspondence in mind, and will advise you of our progress.

Very sincerely yours,

Director of Physical Education,
Varsity Basketball Coach.

FCA:AH

GAVIN HADDEN

CIVIL ENGINEER

607 FIFTH AVE., NEW YORK

August 16, 1938

Dr. Forrest C. Allen
Athletic Director
University of Kansas
Lawrence, Kansas

Dear Dr. Allen:

Thank you ever so much for your good letter of August 12th. In accordance therewith I am writing today to Mr. Gwinn Henry with regard to the proposed new fieldhouse. I am enclosing a copy of my letter to him herewith, and would invite your attention particularly to the suggestion I have made for the possibility of my simultaneous service on the fieldhouse and on the gymnasium for women. If such simultaneous service could be worked out, I feel that it might be made exceptionally useful both to the University and to me in all kinds of ways. For just one example, each of my visits to the University could be used for service on both buildings, thus doubling their value with practically no increase in cost, in time or expenses.

If as you say your project is still in the "promotional stage" it seems likely that my preliminary services might be particularly helpful right away. Please let me refer you to a letter I wrote you away back on May 9th, 1929, in which I pointed out that my services are frequently engaged for the preparation of a preliminary report, as a first step in projects of this kind -- especially when funds for construction are not yet in sight; and that such a report helps to crystallize the project, to assure the best and most economical solution of the problem, to provide a concrete basis for the formation of plans for financing, and to support those in charge by showing conclusively that proper consideration has been given to all the many features involved. This is of course just a suggestion from an outside viewpoint, but if it interests you please be assured that I would come to Lawrence just as soon as you suggest it.

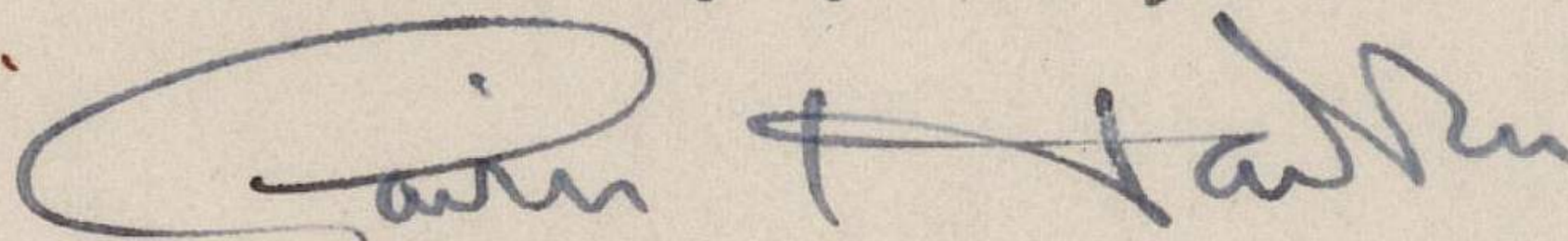
Dr. Forrest C. Allen

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August 16, 1938

With grateful appreciation of your courtesy
and consideration, I remain

Faithfully yours,



GH:mb
Encl.

P.S. In view of the fact that the two building projects are in the hands of two different departments of the University, it occurs to me that Chancellor Lindley might be the one most interested in the possibilities of my serving on both of them at once, as they are both right in line with my special qualifications and experience. I am accordingly writing to the Chancellor and sending him copies of these two letters. Don't you think this is a good idea?

