



office of physical planning  
university of minnesota  
503 morrill hall, 100 church street s.e.  
minneapolis, minnesota 55455

june 1977

vol. 1, no. 1



UNIVERSITY OF MINNESOTA  
TWIN CITIES

Office of the Assistant Vice President

Physical Planning  
340 Morrill Hall  
100 Church Street S.E.  
Minneapolis, Minnesota 55455

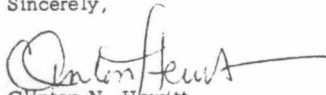
June, 1977

This is the initial issue of a bi-monthly "Planning Newsletter" prepared by the Office of Physical Planning for distribution to all community planning groups and agencies related to the University and its surrounding neighborhoods.

The intent of this newsletter is to keep the community apprised of the status of planning and construction projects for the Twin Cities Campus. In addition the newsletter will focus on future planning activities and interested citizens will have an opportunity to provide additional input to the University planning process. Initially the publication will be issued on a bi-monthly basis; however, if an unusually large amount of information needs to be communicated, more frequent publication will be considered.

It is my hope that by providing this kind of communication, a greater segment of the University community will be kept abreast of University physical development.

Sincerely,

  
Clinton N. Hewitt  
Assistant Vice President  
Physical Planning

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UNIVERSITY AREA SHORT RANGE TRANSPORTATION PROGRAM

This project is an out growth of the recently completed Planning Framework for the Minneapolis Campus. It is being conducted in an attempt to establish feasibility for the concepts developed in the Transportation section of the Planning Framework. The project is being sponsored by the University, the Minnesota Department of Transportation, the Metropolitan Transit Commission, the Metropolitan Council and the Cities of Minneapolis and St. Paul. Representatives from these agencies make up the Management Board conducting the study.

Progress is being made as scheduled. The consultants have completed their analysis of the origin-destination study conducted last November and have released a draft of Technical Memorandum #2 discussing their findings. The Project Management Board and Citizens Advisory Committee have approved this report with only minor changes. The consultants and University Planning Office personnel have conducted preliminary feasibility studies for a number of segments of the transitway alignment.

Additional feasibility studies for other segments of the transit system will be developed as the project continues and before final recommendations are made. In total, 32 feasibility studies will be conducted in order to determine the final recommended transitway alignment and configuration of the total system. All feasibility studies will be reviewed by the Project Management Board, Citizens Advisory Committee, and Campus Committee on Parking and Transportation for comment and evaluation.

Members of the Citizens Advisory Committee include:

Naomi Loper, Chairman  
Steven Westrum  
Steve Flink  
Greg Haley  
Joseph E. Michels  
Tony Garmers

Jackie Slater  
Timothy Sawyer  
Ray Wilkinson  
Timothy Preheim  
H.E. VanderBoom

Grid-I.C.E.S.

As a result of a response to the Energy Research and Development Administration's RFP (request for proposal) on Grid-ICES, the University of Minnesota has been awarded a limited contract (two-man year effort) for a feasibility study on a proposed Community energy system.

The Community energy system focuses on modifications to the University of Minnesota Minneapolis Campus central heating plant, wherein the capability of generating additional steam and by-product electricity will be established by acquiring a retired Northern States Power (Southeast Steam) generating plant. The amount of by-product electricity will be controlled by heating and cooling requirements of the Community.

A second area of importance in the proposed ICES involves the installation of a pyrolysis system for the safe disposal of infectious and hazardous waste. In addition to furnishing a long-term method for disposing of this type of waste, a low Btu gas will be generated, which will be burned in the plant as a supplement to its fuel requirements.

A third area of importance is the adding on of Community gas/oil committed loads to the University of Minnesota coal-fired system. For several years, the two Hospitals -- St. Mary's and Fairview -- have had deep concern about the future reliability of natural gas and oil. The St. Mary's Hospital plant, as well as others (such as the plant at Augsburg College) will be decommissioned by this ICES.

A fourth area being investigated is the conversion of part of the University's steam distribution to variable flow and variable temperature hot water. Economics indicate that hot water will most likely be the distribution system of the future.

Finally the present coal unloading (barge and rail) facilities are being studied for economical and environmental improvements. Presently, it takes 12 hours to unload a barge and involves 70 to 140 truck loads to transport the coal from the dock to University storage bunkers. The ICES study includes the costing and environmental improvements of converting to an automated totally enclosed transfer system. These changes could result in a savings of up to \$5 per ton of coal.

## **Buildings in Progress**

### LAW SCHOOL

Construction is more than 50% complete on the University's new Law School on the West Bank of the Minneapolis Campus, with completion scheduled for December of this year. Landscaping and a new parking lot north of the building will be completed this fall. The building will accommodate 800 students plus some 100 faculty and staff.

### EAST BANK BOOKSTORE/ADMISSIONS AND RECORDS BUILDING

The new East Bank Bookstore/Admissions and Records Building on the Minneapolis Campus opened for business on April 25, 1977. Ninety percent (90%) of this building is underground, which contributes to energy conservation while preserving valuable campus open space. It is estimated that by placing the building underground, as much as 25% of the energy required for a similar above ground structure may be saved. The University has received a grant from the Federal Energy Research and Development Administration to study the energy conservation aspects of underground construction in the building. In addition, the University has applied to ERDA for a grant to install a solar collector on the roof of the building. As designed, this collector would provide for almost all of the buildings heating and cooling needs.

### MIDDLEBROOK HALL PEDESTRIAN BRIDGE

Landscaping, including new steps and area lighting will be added this spring to the newly completed Middlebrook Hall Pedestrian Bridge on the West Bank Campus. Designed to provide safe and convenient passage for Middlebrook students over 4th Street, the bridge and adjoining access ramps were completed late last fall.

### ST. PAUL STUDENT CENTER REMODELING AND ADDITION

Construction is scheduled to get underway this summer on the remodeling and addition to the Student Center on the St. Paul Campus. A major portion of the addition will be underground and will link the Student Center to Coffey Hall under Buford Avenue, which will be closed during construction.

### HOME ECONOMICS

Work is scheduled to begin this summer on the remodeling of Old McNeal Hall on the St. Paul Campus. This will complete work on the many phased development for the College of Home Economics, involving additions and remodelings to some five buildings over a period of several years.

### CONTINUING EDUCATION

Bids were received in March and construction will begin this spring on the Earl Brown Center for Continuing Education on the St. Paul Campus. The Center will provide facilities for various extension courses. A new parking lot will be constructed adjacent to the building to serve course participants.



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UNIVERSITY OF MINNESOTA  
TWIN CITIES

Office of the Assistant Vice President

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August, 1977

Recently the general public has shown increased interest in acquiring smoke detection devices for their homes. The installation of such devices is a wise move as they are presently the most effective measure for reducing loss of life from what remains to be the greatest killer of all fires - the residential fire.

The field is relatively new and some misunderstandings have occurred about purchasing appropriate equipment. The following general rules were arrived at as a result of full-scale tests by the National Bureau of Standards, Center for Fire Research on actual structures:

1. Both ionization and photo-electric detectors can provide adequate life saving potential when properly installed.
2. Heat detectors (rate of rise of fixed temperature) provide little time for escape under fire conditions.
3. In a bedroom with a closed door, lethal conditions can be reached before an alarm placed outside of the bedroom is actuated. Where a bedroom door is normally closed at night and there are possible ignition sources in the bedroom, such as smoking, a separate alarm in that room would be a good investment.
4. Multi-level homes should have a minimum of one detector at each level.
5. In centrally air conditioned homes, detectors should be located away from the air stream of grilles or diffusers.

There is no essential difference in the effectiveness of the ionization or photo-electric types of detectors and the selection of battery or household current operated equipment is largely a matter of personal preference. All detectors should be Underwriters Laboratory or International Conference of Building Officials approved. A list of I.C.B.O. approved devices can be obtained from E. A. Kogl, University Building Official, Room 321 Morrill Hall.

A brochure entitled, "Smoke Detectors", which discusses how to select, install and maintain residential smoke detectors, is avail-

able at no charge from the Bureau of Standards. Write to: Detectors, Division 440, National Bureau of Standards, Washington, D.C. 20234. This brochure will provide the essential information so that one can provide protection in the home with confidence.

Sincerely,

Clinton N. Hewitt  
Assistant Vice President  
Physical Planning

## Grid - I.C.E.S.

The University of Minnesota has been awarded an ERDA contract for a Phase II feasibility study on a Grid Connected Integrated Community Energy System (Grid-ICES) for the Minneapolis Campus Heating Plant. The University of Minnesota was one of five Communities which were selected from 22 applications submitted throughout the United States for a Phase I feasibility study. The Phase I report was submitted to ERDA in May of 1977, and as a result of the Phase I report, the University of Minnesota has been selected for a second ERDA contract for a Phase II preliminary design study on the Grid-ICES.

The University of Minnesota's basic program involves generating by-product electricity to be sold and fed into the Northern States Power Company's grid and controlled by the heating and cooling demands of the University Community. With this type of co-generation, each kilowatt of electricity fed into the NSP grid requires approximately 4,400 BTU's whereas a conventional power company utility (where cooling towers or river water is used) consumes 10,000 BTU's per kilowatt of generation.

The other phases of the University of Minnesota Grid-ICES involve adding on of specific loads in the community, such as St. Mary's and Fairview Hospitals and Augsburg College, to the University's system. This will allow the decommissioning of the gas/oil firing boilers at St. Mary's Hospital and Augsburg College and allow that portion of the neighboring community to be heated by coal rather than by gas or oil. The third area continuing to be reviewed in Phase II will be the pyrolysis of hospital waste, which will not only develop a long-term environmentally improved system for disposing of this type of waste, but the off-gases generated by the pyrolysis unit will be consumed at the Minneapolis Campus Heating Plant and will supplement its fuel requirements.

## Energy Conservation

The primary focus of energy conservation is through the continued expansion of our existing building control automation system. This system controls building equipment operation within temperature limits and ventilation requirements established by the energy office, as well as permitting shutting off utility equipment during unoccupied hours. It should be noted that the basic policy of temperature settings for buildings will continue at 68 degrees during the heating season and 78 degrees during the cooling season; however, these temperature limits could be changed with the declaration of an "energy emergency".

Excessive environmental (heating and cooling) energy losses are through buildings roofs which are either improperly insulated or the insulation is wet. These excessive losses are detected by using a nuclear moisture meter or by infrared flyover imagery. Using a nuclear moisture meter, roofs are surveyed and wet areas are identified and repaired. Excessive losses through improperly insulated roofs are identified by the infrared flyover imagery taken the past winter and programs are to be established to correct these areas.

## Buildings in Progress

### WILLIAMSON HALL

Williamson Hall, the recently completed underground building on the Minneapolis East Bank Campus, housing the University Bookstore, Bursar and Offices of Admissions and Records, has received two awards for its design in as many months. The first, a CUE (Committee on Urban Environment) Award, was presented in recognition of an outstanding contribution to the quality of the city's environment.

The second, a merit award from the Minnesota Society of the American Institute of Architects was announced at the Society's annual Design Awards Program, July 29. Williamson Hall was one of only five winners from among 91 entries. The jury recognized the strong urban design contribution the building makes to the campus fabric.

### WEST BANK UNION

Planning is going ahead for a West Bank Union building. The building will serve as an operational center for the Union, long active in a variety of West Bank Campus activities and services.

The center will take the form of two additions to Wiley Hall (Auditorium/Classroom Building), one an office/pedestrian concourse bridge that will link Wiley Hall to Blegen Hall across Highway 12. Construction is scheduled to begin next spring.

### UNIT B/C

Construction of the new Health Sciences building, Unit B/C, which began at the University in March, 1976, is scheduled for substantial completion January 1978. This 16-story building, primarily housing portions of the Hospital and the Medical School, will be connected to Unit A and the Hospital complex via tunnels and skywalks. The Unit B/C construction contract calls for finishing off approximately 1/2 of the interior space. Occupancy of this space will begin in November, 1977. The remaining half of the interior space will be finished off in phases, with the first phase already currently underway.

### UNIT F

The scope of the project for Unit F of the Health Sciences is to house the College of Pharmacy and the School of Nursing. This 11-floor structure will be located directly north of and adjoining Unit A. Demolition of three masonry buildings on the corner of Harvard and Washington Streets is scheduled to begin September 1, 1977. The excavation contract is scheduled for award in November, 1977; the steel contract in May, 1978; and the general construction contract in September, 1978. Construction duration is estimated at 22 months.

THE UNIVERSITY OF MINNESOTA IS AN EQUAL OPPORTUNITY  
EDUCATOR AND EMPLOYER



# planning newsletter

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October 1983

## WEST BANK DEVELOPMENT PLANS

Development plans are underway for several buildings on the West Bank of the Minneapolis Campus. The construction projects include a 700 car Parking Ramp, the Humphrey Building Project and the Music Building. When completed, these projects will consolidate specific departments within the University. Also to be constructed is the 19th Avenue Bridge over Washington Avenue and upgrading of the associated roadway.

While vehicular circulation patterns and existing access to lots will not be altered with this construction, transient parking on the West Bank will be greatly reduced beginning Fall Quarter 1983 until the Spring of 1984. Construction workers, arriving on campus at 7:00 a.m., will absorb the majority of space in Lots 94 and 61.

Lot 91 west of 19th Avenue will remain as a coupon lot only, thereby excluding construction workers. Lot 90 west of 19th Avenue and Lot 95 adjacent to the Law School will be hourly lots, and metered parking will remain available south of Wilson Library.

In early January 1984, a portion of the 400 spaces in the West Bank Ramp will be open for public parking while the balance of the ramp is being completed. By Spring 1984, with the completion of an additional 296 ramp spaces, available parking on the West Bank Campus will be within 5% of the parking spaces available at the beginning of construction activity.

In light of the parking shortage and added congestion, particularly during Fall and Winter Quarters, it would be advisable for University staff, faculty and students to seek alternative forms of transportation.

The drawing on the reverse side and the following discussion will clarify the projects to be undertaken and the time framework for their development.

## WEST BANK PARKING RAMP

The West Bank Parking Ramp, under construction directly south of 4th Street South between 20th and 21st Avenues South, will be developed in two phases beginning in August 1983, with final completion anticipated in April 1984. Phase I of the ramp will open in January 1984 and will provide approximately 400 spaces (both transient and contract). The final phase of the ramp will provide an additional 296 spaces for a total of 696 spaces.

The parking ramp construction has eliminated the metered lot at 4th Street South and 21st Avenue South, and it will render Lot 92, off 5th Street South unusable during the construction period.

Vehicular circulation on adjacent streets will not be affected with the exception of 4th Street South which has been narrowed to half its width but remains open to two-way traffic.

Upon completion of the ramp, all adjacent streets will be open to full capacity. While Lot 92 will be reduced in size, its entrance will be retained off 5th Street South.

## HUMPHREY BUILDING PROJECT

The Humphrey Building Project is comprised of the Humphrey Institute and the School of Management. Construction on this building will begin in November 1983, with completion expected in November 1985.

During the construction period and upon completion of the project, contract Lots 97 and 98, south of Washington Avenue and east of 19th Avenue South will be lost. With the loss of Lots C97 and C98, Lot 93, located at 19th Avenue and 4th Street South will become a contract lot. The majority of lost contract and transient space will be absorbed in the new ramp; however, there will be a two month period between the start of the Humphrey Building construction and the Phase I completion of the new ramp when considerable transient parking will be temporarily lost.

## MUSIC BUILDING

Construction on this project could begin as early as the beginning of November 1983. This construction will primarily use 4th Street and 21st Avenue for access to the site.

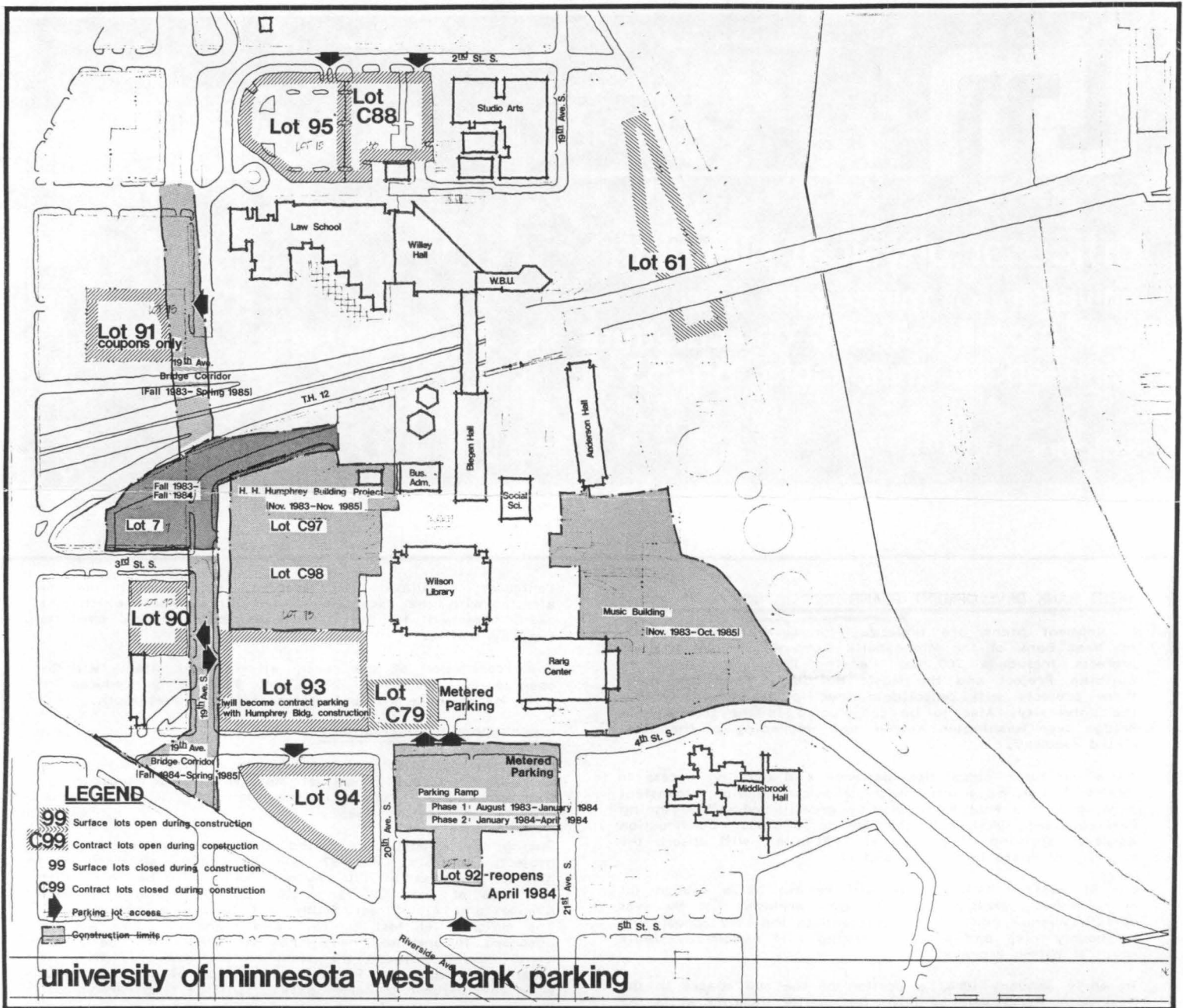
## NINETEENTH AVENUE CORRIDOR

Within the next two year period, 19th Avenue will be extended south across Washington Avenue to Riverside Avenue South.

This fall, construction is proceeding in preparation for the 19th Avenue bridge construction over Washington Avenue. Bridge construction will commence during Spring 1984 and will be completed in Fall 1984. Upgrading of the roadway is scheduled to begin in the Fall of 1984 and be completed in Spring 1985. The construction work this fall will permanently eliminate Lot 7 west of 19th Avenue.

The University Planning Office will keep the University and neighborhoods apprised of progress on these projects and any unforeseen situations in subsequent newsletters. University department chairpersons and faculty are urged to contact Room Scheduling and request classroom reassignment to the East Bank if appropriate facilities are available.

The University is making every effort to minimize the impact on commuter circulation and parking. Your cooperation and patience is sincerely appreciated.



DAVID KLAASSEN  
 ARCHIVES  
 IO WALTER LIBRARY



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**February 1984**

## **Twin Cities Campus Building Project Update**

Several building projects on the Twin Cities Campus are either underway or scheduled to begin shortly. This issue of the Newsletter provides a brief description and up-date.

### Agronomy & Plant Genetics/Plant Pathology, Soil Sciences

This \$9 million building is being constructed on Upper Buford Circle on the St. Paul Campus. The completed building will include research and teaching labs as well as classroom and administration space for the departments of Agronomy and Plant Genetics/Plant Pathology, and Soil Sciences.

Although the project schedule has been delayed due to weather, it is anticipated that the completion date of Spring 1985 will be achieved.

The building will not only create more academic space, but it will physically connect the departments. The building will be compatible with the Long Range Development Plan in that it affords the capability of creating an indoor pedestrian link between buildings.

### Radisson Inn - University

The \$18 million Radisson Inn is currently under construction north of Washington Avenue between Harvard and Walnut Streets. The 8-story hotel will provide 300 rooms, 116 of which will be economy rooms aimed primarily at serving hospital patients and visitors. The remaining rooms will be luxury rooms providing full service. In addition to more than 300 guest rooms, the hotel will have eight meeting rooms, a ballroom, two bars, two restaurants and some leasable retail and office space.

The hotel is being developed by Maddux Properties on property leased from the University. The hotel will be managed by the Radisson Corporation.

According to the current schedule, the hotel should be open for business in May 1985.

The hotel will blend with other University buildings on the exterior. Patron parking will be provided in an adjacent parking ramp soon to be constructed.

### Hospital Replacement/Unit J

The \$125 million Unit J project is located on River Road between the Variety Club Heart Hospital and the dormitory superblock. The project consists of a core facility to be developed in two phases, Phase I being the Department of Therapeutic Radiology and Phase II consisting of an eight story building with 432 patient beds and primary support facilities.

The Phase I portion of the project began in October 1982 and is scheduled for completion this month. Construction of Phase II began in January 1983, and the building will be ready for occupancy in March 1986.

The Unit J replacement facility serves the hospital facility's mission of research, teaching and public service.

### East Bank Parking Ramp

The 4-story post-tensioned structure will be located on the north side of the existing Ramp A and will accommodate 700 cars. The exterior of the ramp will blend into the context of the surrounding structures and will relate to the new hotel.

The project is currently out for bids, and it is expected that construction will be completed in December 1984.

### Humphrey Building

The Humphrey Building is prominently located at the gateway to the University of Minnesota West Bank campus. All levels of the new facility are directly linked to the existing School of Management Tower. The structure will house combined programs for the Hubert H. Humphrey Institute, Center for Urban and Regional Affairs, and School of Management. Included in the building is exhibit space for Humphrey Memorabilia, a 250 seat restaurant, a small conference center, a 250 seat auditorium and a 3-story central "forum space." The forum, in addition to providing a public focal space for the 3 programs, provides needed congregating space associated with use of the auditorium, exhibit space and school of management conference facility.

The new facility provides an opportunity to consolidate all of the Institute's offices into one location. It will provide space to house fundable programs presently constrained by lack of staff space. The common interests between C.U.R.A. and Humphrey Institute will be strengthened and further developed by their physical proximity. The School of Management will gain office space for new faculty and on-campus conferencing space for its Executive Development Center and Industrial Relations program.

Construction for the building started in late-November 1983. Early occupancy of the School of Management portion of the building is scheduled for early Summer of 1985. The balance of the project will be completed in December 1985.

#### Music Building

The site chosen for the Music Building is across the south plaza from Wilson Library to the northeast of Rarig Center for the Performing Arts. It is a beautiful and appropriate location with fine views across the plaza and down the river. The Music Building will complete the architectural framework of the south plaza. It will provide an appropriate sense of enclosure while at the same time retaining a linkage between the plaza and the park land. The building will maintain a low profile from all points of view, be integrated into the topography and respect existing land forms and trees.

The project consists of two main elements:

1. An instructional wing containing classrooms, academic faculty offices, teaching studios, research areas, and practice rooms.
2. A wing including band, orchestra, and choral rehearsal halls, a recital hall, and related facilities.

The classrooms are located in a central zone. The offices and studios require natural light and are grouped at the periphery. Practice rooms are acoustically isolated on the ground floor, a full story below the plaza. The project also includes provisions for a future performance hall for 1,000, with major rehearsal halls at stage level.

The Music Building will provide substantial benefits to the Music program which is currently housed in eleven different buildings, none of which is acoustically or climatically designed for music. Consolidation of the music program into one facility will decrease student travel time between classes, increase facility productivity and cohesiveness, increase security over instruments and lengthen the functional life of valuable instruments that are sensitive to climatic control.

Construction on the building is underway, and it should be ready for occupancy by October 1985.

#### West Bank Parking Ramp

This parking facility, located on 4th Street South between 20th and 21st Avenues South, is designed to provide parking for 700 cars on four supported levels. It is an open-air parking garage with a three bay interlocking helix configuration which allows vertical circulation of vehicles while providing parking on both sides of the drive aisles. A crossover at every level near the center of the facility will allow the parker to start the downward circuit of the helix within a short distance of each parking space. This facility incorporates "one-way" traffic, 60 degree angle parking and easy access circulation. A large lobby will be provided at the stair/elevator tower for comfortable pedestrian movement.

The parking facility is designed for 350 contract spaces and 350 transient spaces. The transient parkers will be separated into 125 short-term and 225 long-term spaces.

Construction for this ramp started in August of 1983. Approximately 240 spaces will be available for use in March 1984. The balance of parking spaces will be available for use in May of 1984.

The ramp will alleviate, to some extent, the current need for more parking on the West Bank. Most of the spaces to be provided will be replacement parking lost to construction of the Humphrey Institute and the 19th Avenue roadway realignment.





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June 1984

## Twin Cities Campus Project Update

Several campus construction projects will become more visible in the near future. Maps locating these projects appear on the reverse side of this page.

### 1. East Bank Campus/Parking Ramp

Construction is underway on the new East Bank Ramp north of Washington Avenue between Union and Harvard Streets. The 700 car ramp will be completed in December 1984. Four hundred spaces will be designated for hourly and reserved parking and up to 300 spaces will be made available to East Bank Hotel patrons.

Access to the new facility will be off Harvard St. with the entrance on the north. The Ramp A entrance has already shifted from Harvard Street to Union Street. Signs have been installed to facilitate this change.

### 2. East Bank Campus Bierman Field Athletic Facilities Addition

In February the University invited submittals of design/build proposals for expansion and improvements to the football facilities at the Bierman Practice Field location, directly north of the Bierman Gymnasium.

The program for the proposals called for enclosure of the football practice field with 30 foot sidewalls and a 55 foot clear height in the center of the field.

Other football related activity will be contained in an office/team facility at the enclosed south end. This facility will be connected to the gymnasium's balcony in Bierman with a skyway over the present service road.

The office/team facility will house a complete 6,000 sq.ft. weight training room, lockers and showers for the varsity and junior varsity football teams, space for trainers, training areas, equipment rooms and facilities to support the football team. A second level will contain the teams' clubroom and coaches' offices overlooking the practice field and supporting staff.

Design and construction has been awarded to Knutson Construction/Wold Architects, and the design/build process has begun. The field enclosure is scheduled for completion in September 1984, and completion of the office/team facility is scheduled for February 1985.

### 3. West Bank Campus Developments

#### - Projects

The Humphrey Building Project is well into construction with the sub-plaza level and first floor level concrete structure poured and framing for the pouring of the second floor in place. Brickwork is expected to start in approximately mid-June. While final bid packages will not be received for several months, the majority of subcontract bids have been received; and it appears that the project budget can be met.

The schedule of the project anticipates completion of the School of Management portion of construction by midyear 1985. The balance of the construction will be completed in late December of 1985 with occupancy occurring in January 1986.

The Music Building is under construction and is 15% complete. The project is scheduled for completion in Fall 1985. Funds have been authorized to accommodate mechanical space for a Music School library addition in the plaza north of Rarig Center. Design development is nearing completion on this addition.

#### - Parking

As of March 20, 175 transient parking spaces became available in the West Bank lot at the north-east corner of 19th Avenue and 4th Street South. A portion of this lot has been set aside for an experimental motorcycle parking area this spring. Motorcycles park for a daily rate of 35¢.

Approximately four hundred (400) contract spaces are now open in the West Bank Ramp, and approximately 300 transient spaces will be available in June when the remainder of the ramp opens.

### 4. St. Paul Campus Projects

#### - Buford Avenue Sidewalk

This spring a sidewalk will be installed along the south side of Buford Avenue from Arlington to Gortner. It will provide a safer means for pedestrians to access the campus from the Fairgrounds parking lot.

- Research Areas

Agricultural Engineering is evaluating the performance of an air-earth heat exchange for water production. The device is designed to provide pure, untreated water by converting water vapor to liquid for human use.

The Department of Electrical Engineering currently operates a wind-electric system in a research area on the St. Paul Campus. Data has been collected and recorded on the system's operation to demonstrate the feasibility of using wind as an alternative source of energy in this region of the country.

Entomology is evaluating above and below grade grain storage alternatives which will prevent grain loss due to insect blight in third world countries.

tions, a program for potential physical solutions and recommended policies. It is anticipated that the study will take about eight months to complete.

Campus Landscaping

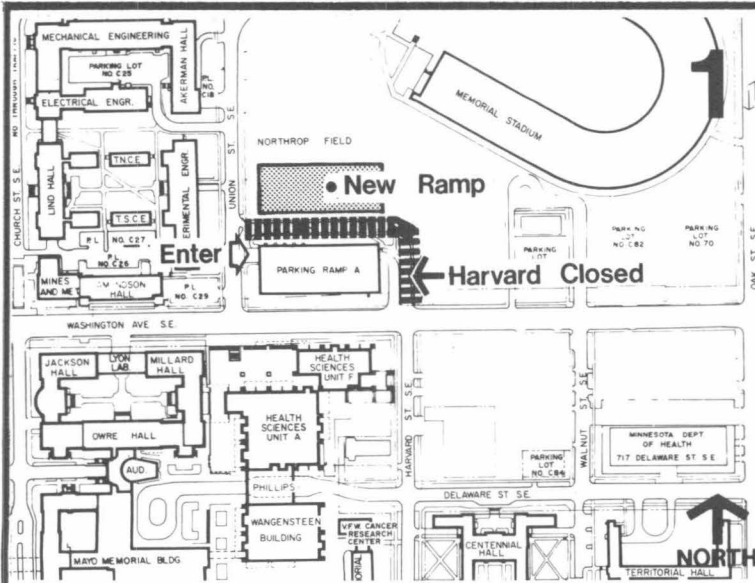
The University administration's interest in upgrading the campus landscape is now a reality. The first phase of landscape improvements is nearly complete. Improvements include tree and shrub plantings at the Washington Avenue bus stop, the Pleasant Street Mall bus stop, at the front of Bell Museum and Armory and at the Pillsbury Gate and Mall. These areas are highly visible to the public, and some have special problems which can be solved with plant material.

The second phase of the landscape improvements may be implemented later this year with shrubs and trees along the building fronts on the Mall and in the planters adjacent to Northrop Plaza.

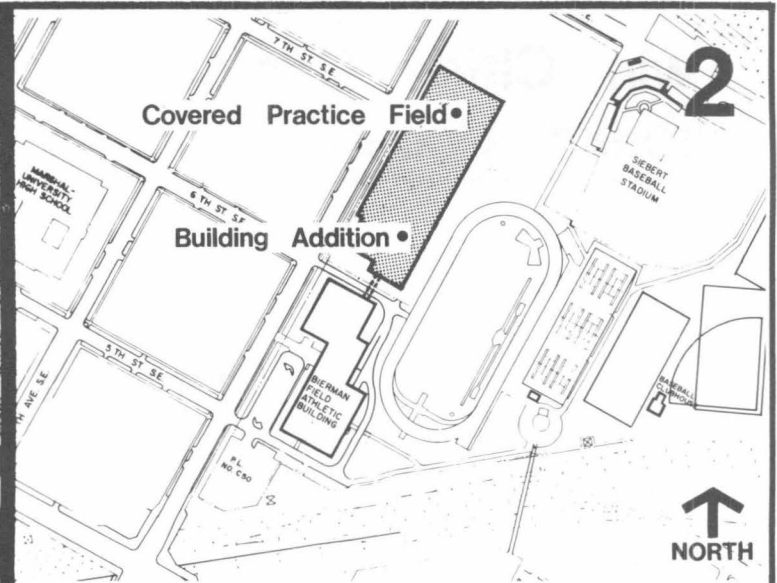
NOTE: In the February 1984 Newsletter the total project cost for Agronomy and Plant Genetics/Plant Pathology, Soil Sciences Building was incorrectly reported to be \$9 million. The actual cost is \$16 million.

Twin Cities Campus/Long Range Parking Study

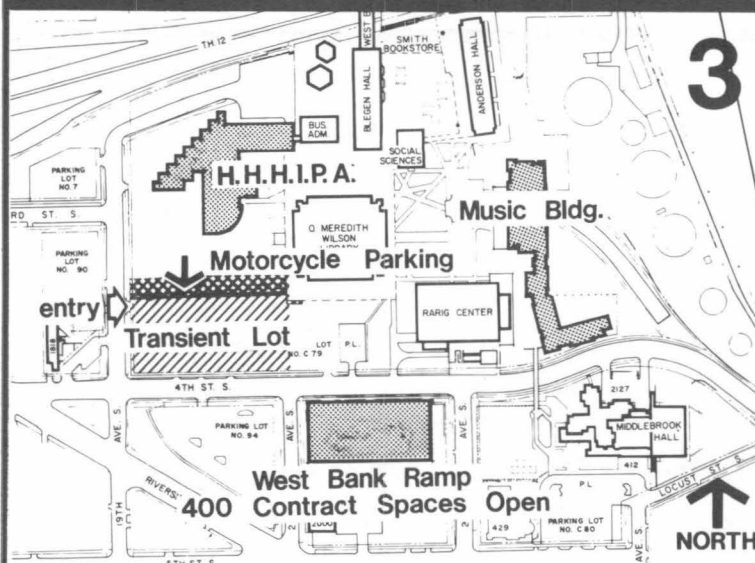
The University is currently undertaking a study of the campus parking situation with the goal of developing a long range parking plan. A ten member planning committee has been formed which includes representatives from each campus, several departments and the City of Minneapolis. The final report will include projec-



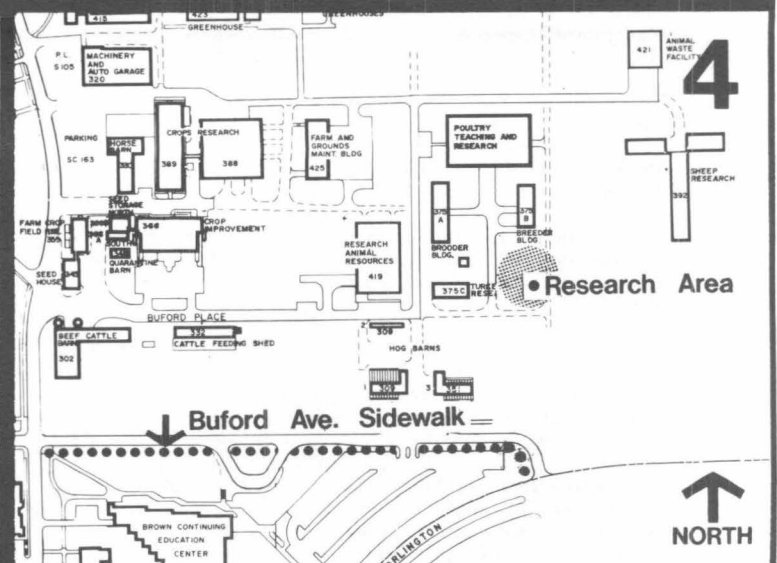
**E. B. Campus: Parking**



**E. B. Campus: Bierman Field**



**W. B. Campus: Parking & Projects**



**St. Paul Campus: Projects**



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October 1984

Edited by Barb Quade

## Twin Cities Campus Project Update

There are several campus projects which currently affect or will shortly influence campus circulation. Maps indicating these projects appear on the reverse side of this page.

### 1 Intercampus Transitway

The University Board of Regents has approved implementation of an \$18.2 million transit corridor connecting the Minneapolis and St. Paul Campus. The Regents committed \$4.7 million as a matching share to qualify for a federal grant of \$13.5 million.

The project includes an exclusive busway and the addition of a total of 2,000 parking spaces along the route. The parking will be in three locations served by the intercampus bus in a manner similar to the facility at 29th Avenue and Como Avenue.

In response to a request by St. Paul Mayor George Latimer, the Regents imposed four conditions on the current plan. These include studying the use of trolley buses and electric buses, developing landscaping and noise barriers adjacent to the route, reducing the size of one of the remote lots and the forming of a committee made up of St. Paul residents and city staff to monitor the project.

### 2 East Bank Parking Ramp/Road Alterations

The new East Bank Ramp, located directly north of existing Ramp A at the intersection of Union Street and Washington Avenue, has an expected completion date of December 1984. The new ramp will accommodate transient parking, and Ramp A will accommodate contract parking only.

In order to accommodate the additional traffic generated by this 700 car ramp, Union Street (south of the new ramp) has been widened by two (2) lanes. An additional lane on the west side of Union Street will handle right turns onto Washington Avenue and the additional lane on the east side of Union Street will provide stacking space for vehicles entering Ramp A.

### 3 East Bank/Smith Hall Remodeling Impact

Construction of the \$22 million Smith Hall (Chemistry) remodeling is expected to begin in November 1984. The remodeling of the chemistry building, which was built in 1913, will bring the facility up to current standards for safety, teaching, and research. Included in the remodeling are three auditoriums and two classrooms.

The remodeling (to be completed in the Summer of 1987) will occur in two phases with the south half of Smith being remodeled first, followed by the north half. This schedule allows at least half of the building to remain in use during the construc-

tion process. The temporary loss of space in Smith Hall will be offset by swing space being made available in Appleby Hall, Kolthoff Hall, buildings on the St. Paul Campus, and through scheduling modifications.

The construction site is noted on Map 3. Prior to project construction, preliminary utility work will occur along Pleasant Street as noted. The utility work is scheduled to begin in mid-October 1984 and continue for 1½ months. Traffic along the one-way portion of Pleasant Street will, at times, be restricted to a single lane.

### 4 West Bank/19th Avenue Construction-West Bank Ramp

The reconstruction of 19th Avenue and the associated bridge over Washington Avenue, which is currently underway, will provide a direct north/south link on the West Bank. The project is on schedule with a projected bridge completion of mid-September. It is hoped that the approaches to the bridge and the remaining sections of the street will be open in late Fall.

With the reconstruction of 19th Avenue, 4th Street South west of 19th Avenue will be inaccessible from 19th Avenue. Lot 7 has been eliminated, Lot 91 has been temporarily lost and the access to Lot 93 has been temporarily relocated from 19th Avenue to 4th Street South.

Associated with the now completed and fully operational West Bank Ramp are changes in the operation of the West Bank parking lots. As of October 1, all lots on the West Bank will be coupon only with the exception of Lots 61, 95 and the West Bank Ramp. Lot 90 will operate as a carpool lot until 10:00 a.m. after which time it too will become a coupon lot. All visitor parking on the West Bank is directed to the new West Bank Ramp.

### 5 St. Paul/Animal Science Phase II

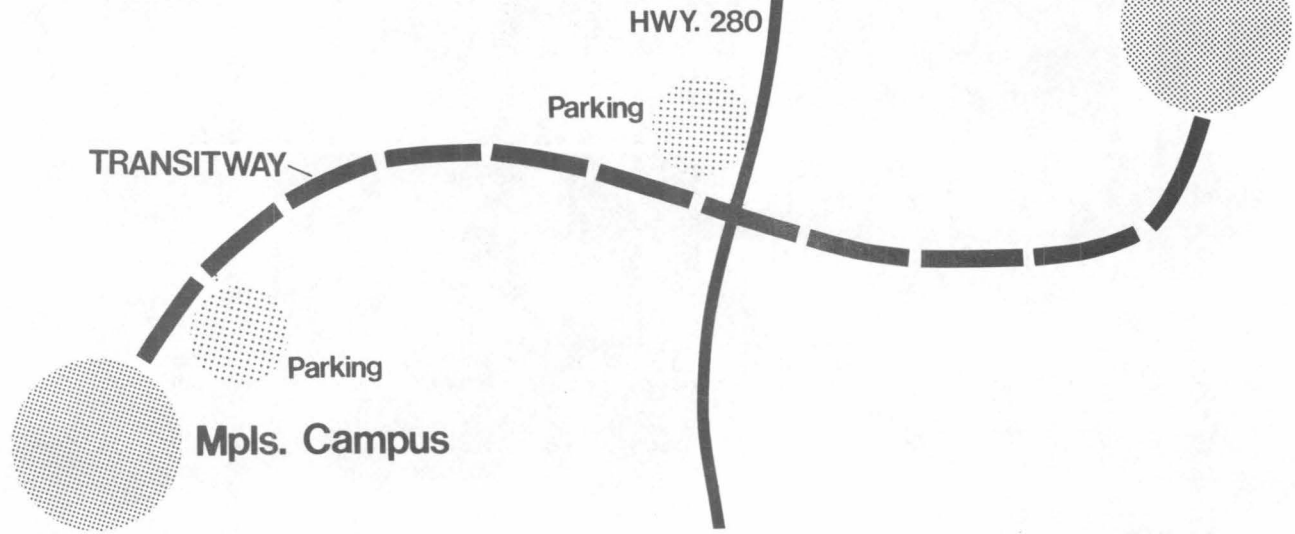
Animal Science projects consist of a new addition and major remodeling to Haecker Hall in addition to six (6) new and four (4) renovated facilities which will be developed east of Gortner Avenue on the St. Paul Campus.

The Haecker Hall addition and remodeling will provide new office and classroom space, and it will be consistent with the long range plan for the St. Paul Campus. The addition will facilitate the development of an internal pedestrian link connecting the southern and northern portions of the campus.

The six (6) new and four (4) renovated facilities will upgrade animal science facilities to contemporary standards. Some of these facilities include dairy research, swine research, husbandry research and beef metabolism research. One of the more interesting aspects of the new facilities is a Waste Facility which will use new technology to recycle waste, making it usable for animal feed and bedding.

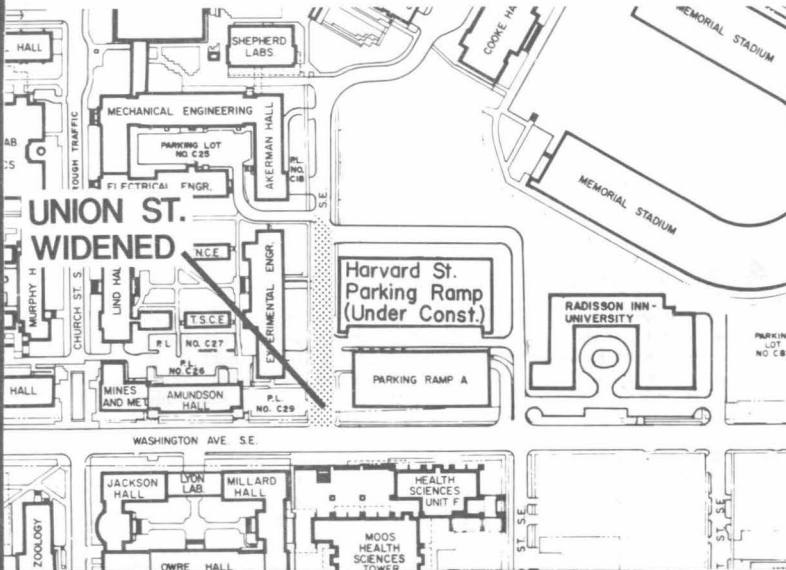
Construction on some of the Animal Science Phase II facilities could begin as early as 1985. Completion for all facilities is anticipated in 1987.

# St. Paul Campus

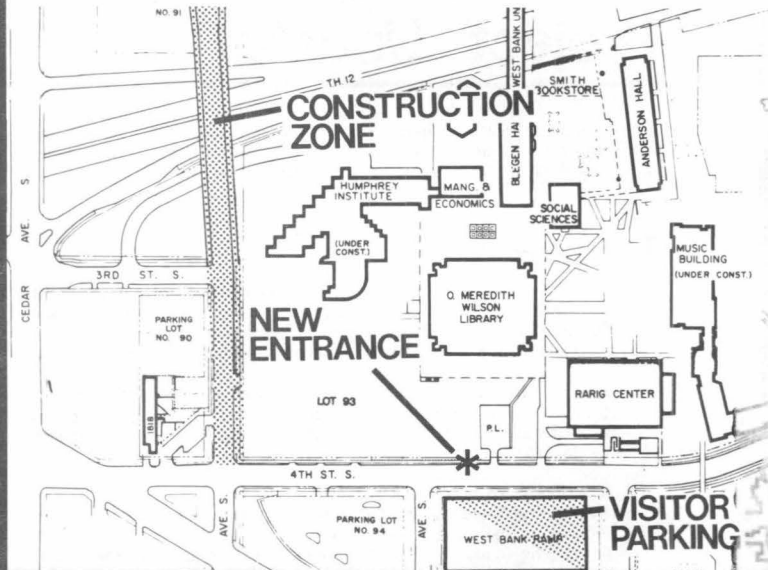


## 1 INTERCAMPUS TRANSITWAY

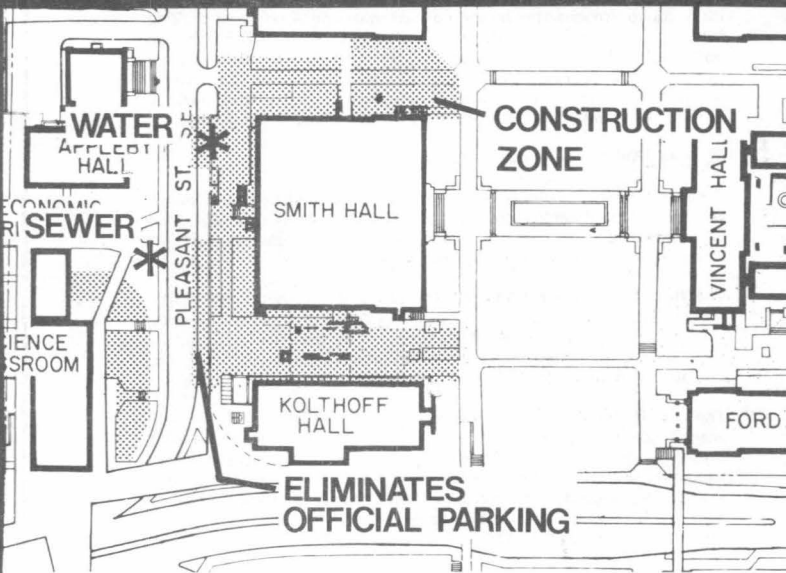
## 2 EAST BANK RAMP & ROAD ALTERATIONS



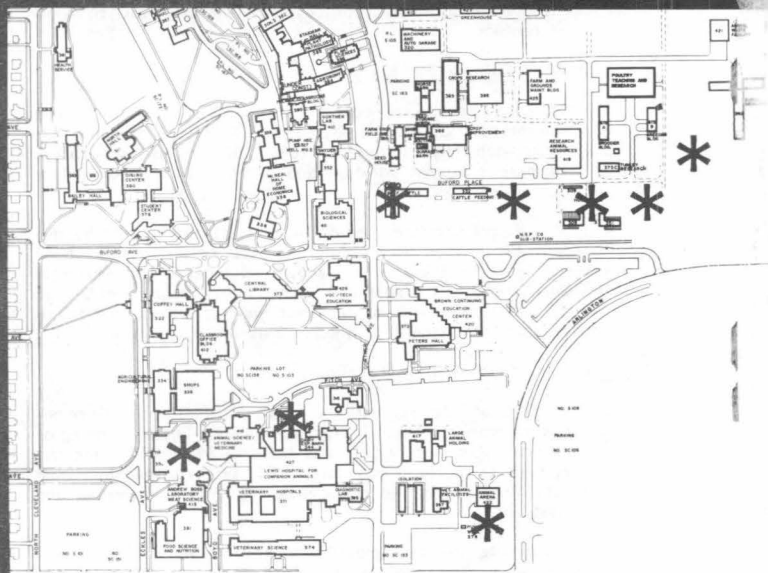
## 4 19th AVENUE CONSTRUCTION / WEST BANK RAMP



## 3 IMPACT OF SMITH HALL REMODELING



## 5 ANIMAL SCIENCE PHASE II





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March 1985

Edited by Barb Quade

## Twin Cities Campus Project Update

The following discussion references the planning and construction projects in various stages of development on the Twin Cities Campus. The accompanying maps indicate project locations.

### Parking Task Force

A Parking Task Force appointed by Vice President Lilly to provide guidance in studying and developing a Long Range Traffic and Parking Plan for the Twin Cities Campus, has now completed a draft report which is being distributed to appropriate review bodies for comment. A final report will be completed for general distribution by April 1, 1985. Key recommendations include:

- The rapid development of the proposed inter-campus parking facilities.
- Major improvements to the visitor information system.

### MINNEAPOLIS CAMPUS/EAST BANK

#### Electrical Engineering and Computer Science Building

The new Electrical Engineering and Computer Science (EE/CS) Building will provide new and increased facilities to support undergraduate, graduate and research programs within the disciplines of Electrical Engineering and Computer Science. The building will serve as a demonstration area for modern electrical and computer technology.

The anticipated project completion date is Winter Quarter 1988. Given this time framework, there will be noticeable preparatory work per the following schedule:

- Utility relocations: Early June 1985
- Demolition of the Experimental Engineering Building: Early July 1985
- Excavation of site: Early August 1985

Building construction should begin in early February 1986 to meet the target date for completion.

#### Harvard Street Parking Ramp

The new Harvard Street Parking Ramp is now open and operating.

#### Telecommunications Facility

The Telecommunications Facility, to be located beneath Lot 1, is currently under construction. The new facility to be completed in Fall 1985, will be the central telecommunication center for all campus telephones, computers and associated equipment. As a result of the construction, Lot 1 will be closed until the Fall of 1985. When the project is completed, Lot 1 should re-open and operate as it does now.

### MINNEAPOLIS CAMPUS/WEST BANK

#### Hubert H. Humphrey Institute of Public Affairs

This project is on schedule. The School of Management portion of the new building should be completed and ready for occupancy by June 15, 1985. The Humphrey Institute portion of the building should be complete in early to mid-December 1985.

Remodeling of the first three floors of the School of Management's existing space should be completed by mid-September 1985.

#### Music Building

The Music Building is now 82% complete, and the below grade library portion of the building is 30% complete. It is anticipated that the project will be completed by Fall 1985.

#### Plaza Development

Late this spring a pedestrian plaza is scheduled for development south of Wilson Library. Displaced metered parking will be developed to the west of its existing location, and the entrance to the parking lots on the north side of 4th Street South will eventually be relocated to 19th Avenue South.

### ST. PAUL CAMPUS

#### Agronomy

The Agronomy building was substantially completed March 1, 1985; departments may begin moving in after April 1. Some site work remains to be completed this spring.

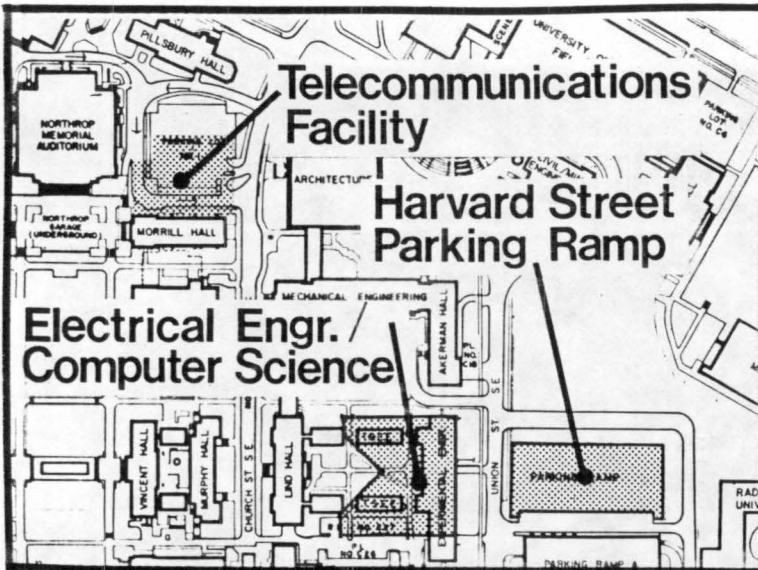
#### Agronomy and Plant Genetics, Plant Pathology, Soil Science Teaching Greenhouse and Headhouse

This new building project, scheduled to begin in the Spring of 1985, will provide improved academic space for Agronomy, Plant Genetics, Plant Pathology and Soil Science. The building is scheduled for completion in the Fall of 1985.

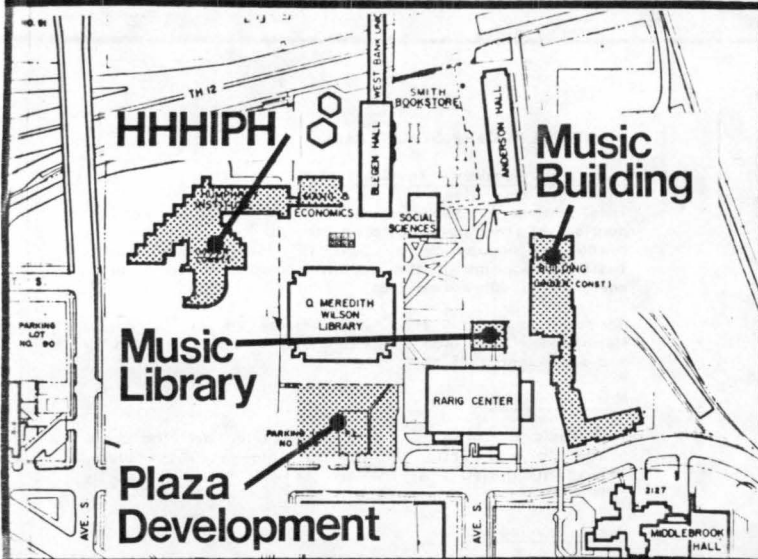
As a result of this construction, the Maintenance and Auto Garage will be removed by a wrecking contractor. In addition, Lot 105 will be closed beginning April 1, 1985. When the greenhouse is completed in the Fall of 1985, some transient parking will be redeveloped along with additional short term and contract parking in the same general area.

#### Primary Electric Service

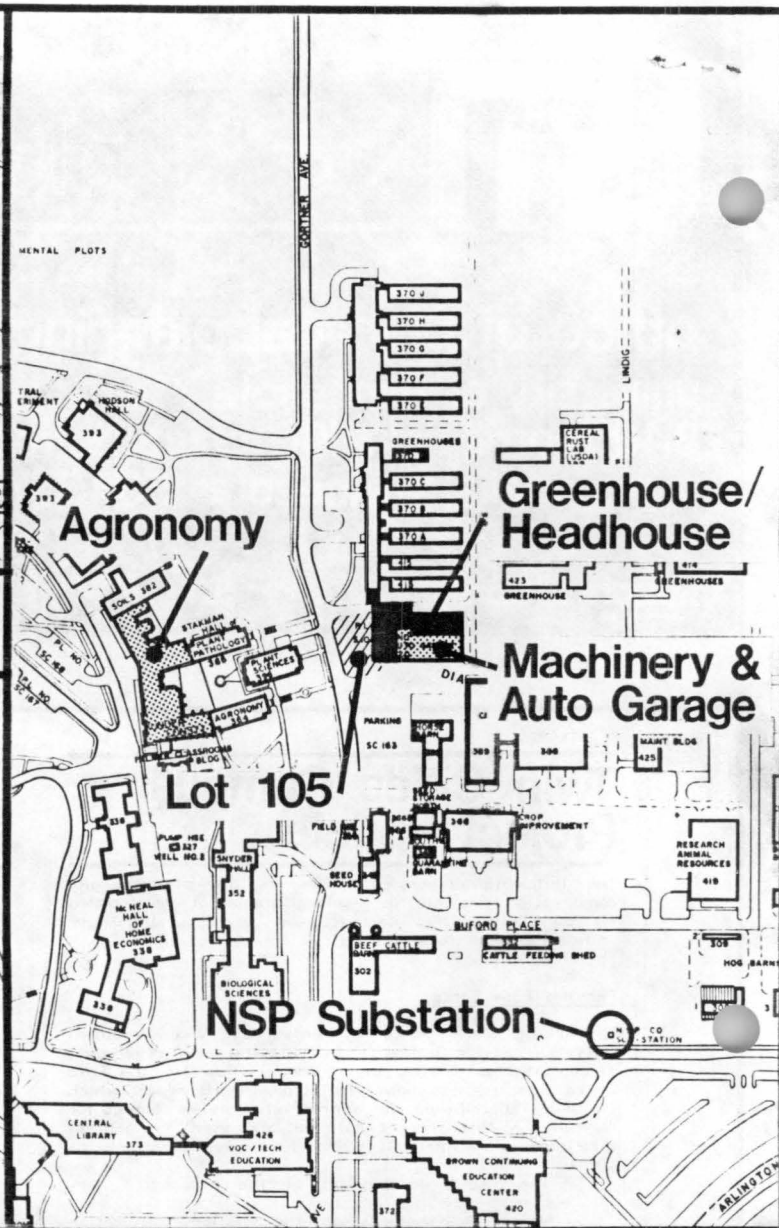
The aerial primary electric service east of Gortner Avenue and north of Buford Avenue is in the process of being replaced at grade. The expected completion date is Spring 1986. As part of the upgrading process, the NSP substation north of the Earle Brown Center will be relocated to a concealed facility within Earle Brown.



**Minneapolis East Bank**



**Minneapolis West Bank**



**St. Paul Campus**

