



# Shippensburg University

A member of the State System of Higher Education

## FACILITIES MASTER PLAN

SEPTEMBER 1998

**Baker**

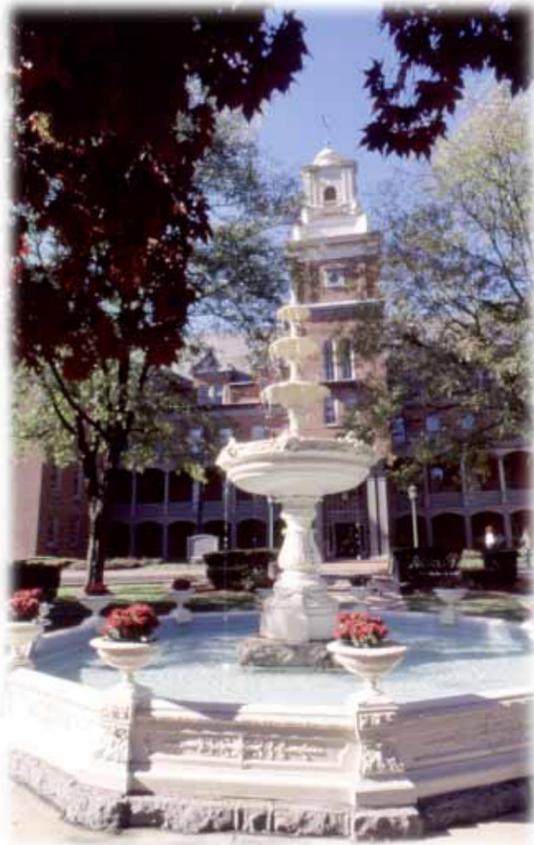
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# EXECUTIVE SUMMARY



The Shippensburg University Facilities Master Plan is the result of a comprehensive planning process that will provide guidance for the development of a campus atmosphere and layout that are conducive to a high quality educational experience for students and cost effective and efficient development of campus facilities. The preparation of this plan has been the work of a team composed of representatives of the University community: students, faculty, administration, and staff, facilitated by the professional consultants Baker and Associates and GWSM, Inc., under the oversight of the Council of Trustees. The

process has included interaction with the regional community surrounding the Shippensburg campus as well as the Shippensburg University Foundation Board.

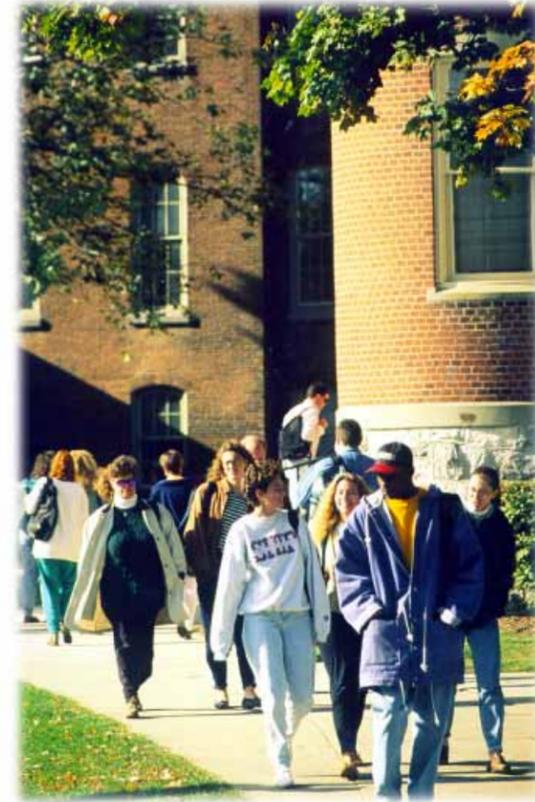
In order to plan facility changes over three different planning horizons, specifically a 0-5 year, 5 -10 year and 10-20 year horizon, the planning team collected pertinent information on existing conditions within the campus, identified current facility/infrastructure deficiencies, projected future facility needs to support the University's mission, and programmed facility projects that respond to existing and projected deficiencies. The initial data collection and analysis effort identified the following issues that steer the Facilities Master Plan:

- Many old buildings on the campus need to be refurbished, some of which are on the National Register of Historic Places, which imposes constraints on proposed alterations.
- Related to the item above, very few of the buildings at Shippensburg have been updated or modernized in the last 18 years; many have not been remodeled in the last 34 years (see page 38).
- The existing circulation systems at Shippensburg create many conflicts between automobiles, pedestrians and bicyclists.
- The campus lacks unifying green spaces within which pedestrians can move unhampered by crossing vehicular thoroughfares.
- Utility systems have reached the end of their expected useful life. Some are inadequately sized to support even small-scale future development. Most notably the sanitary sewer is undersized, the steam system is near capacity, and electrical feeder lines need to be replaced.

The Space Utilization Plan on page 8 lists a total of 71 realignments, renovations and new construction, that address the issues identified above and are recommended for implementation over the next 20 years. To summarize, suggested projects have been categorized as follows.

- **Academic:** Franklin Science Center, Shippen Hall, Shearer Hall, Rowland Hall, Huber Arts Center, Lehman Library, Dauphin Humanities Center, Memorial Auditorium, Wright Hall and the construction of a new Instructional Arts Facility.
- **Student Support:** Residence halls, most notably Harley Hall, Mowrey Hall, Seavers Apartments, Naugle Hall, and McCune Hall, plus dining facilities: Kriner Dining Hall, Old Main Century Room, and Reisner Dining Hall. Other realignments and projects address student support centers in Gilbert Hall and Henderson Gymnasium, which is planned for conversion when athletics is consolidated in the Heiges Field House.
- **Administrative:** Old Main and Richard D. Rife Alumni House; elimination or consideration of relocation and reuse of several temporary structures on the campus.
- **Public:** Support of the University's commitment to public service to include construction of a new Chapel by the SU Foundation and renovations of Horton and Stewart Hall.
- **Green Spaces and Pedestrian Corridors:** Walkways, seating, vehicular access and landscaping in quadrangle areas including the center campus quadrangle, Old Main quadrangle, CUB quadrangle, and east dormitory quadrangle. Other projects of this type include entrance and other landscaping, other site improvements, and a central green space north/south corridor.

- **Utilities:** Maintenance or upgrade of utilities including sewer lines, the electrical distribution system, the steam distribution system and upgrade of a deficient boiler in the steam plant.
- **Roadways and Parking Lots:** Expanded or new parking facilities, new roadways, notably those associated with a campus loop road concept intended to reduce traffic through the core areas and those associated with entrance additions/improvements.
- **Athletic/Recreational Facilities:** Relocation of athletic fields and the tennis court, renovation and expansion of the Heiges Field House, renovation and expansion of athletic fields and athletic field lighting.



To implement the Facilities Master Plan, the Capital Facilities Program, on pages 15 and 16, lists specific projects needed to maintain or extend the life of existing assets, reconfigure existing facilities to serve current and projected needs, add facilities and infrastructure and alter the roadway and parking configuration to facilitate pedestrian movements in the central campus area. Circulation improvements, which will lead to a campus loop and perimeter parking, will minimize vehicular/pedestrian conflict (see pages 12 and 13) and improve student life. This program does not address the source of funds for these projects. When the time comes for execution of these proposed projects, funds may come from capital budget, commonwealth or state system bond funds, university operations, auxiliaries, or other sources.

The facilities master planning process is continuing, requiring annual review and update. Further development of this plan includes the design guidelines for construction or renovation of facilities, landscape master plan, comprehensive facilities life cycle replacement plan, facilities deferred maintenance assessment, and schematic/concepts of the building interiors planned for renovation or construction. These requirements will be addressed in separate initiatives when funding is allocated.

# INTRODUCTION



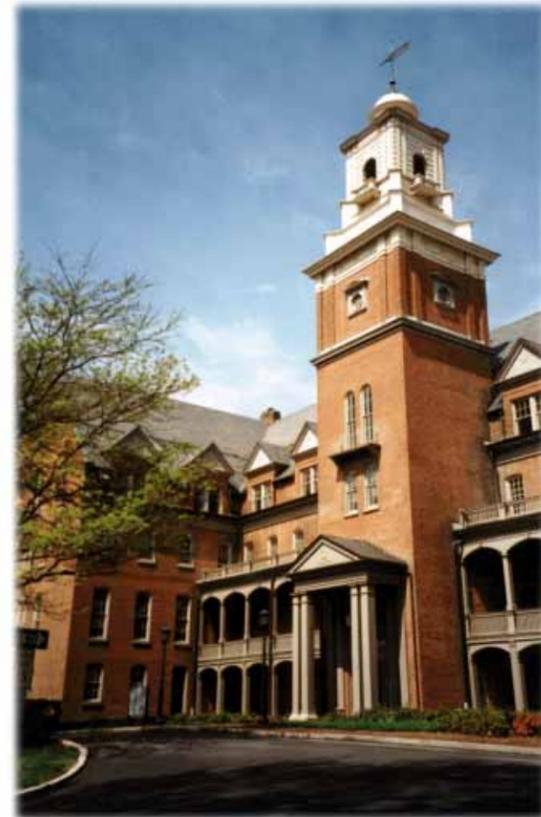
## FACILITIES MASTER PLAN

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*Old Main is located on the highest elevation of the campus and is a key landmark for the University.*

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## FOREWORD

The Board of Governors requires each State System of Higher Education University to maintain a current facilities master plan for programming the renovation and construction of capital facilities projects for the university campus. In order to prepare an effective master plan, data that address the university's strategic goals and academic objectives, which form the basis for the university's existence, must be incorporated in a plan for erecting and maintaining supportive physical facilities. Therefore, the first section of this document provides the statement of the University mission and goals and states the goals, objectives, and assumptions of the facilities master plan that supports the mission and goals.

The Shippensburg University Facilities Master Plan is the result of a comprehensive planning process that will provide guidance for the development of a campus atmosphere and layout that are conducive to a high quality educational experience for students and cost effective and efficient development of campus facilities. The preparation of this plan has been the work of a team composed of representatives of the University community: students, faculty, administration, and staff, facilitated by the professional consultants Baker and Associates and GWSM, Inc., under the oversight of the Council of Trustees. The planning process has included interaction with the communities surrounding the Shippensburg campus as well as the Shippensburg University Foundation Board.

The facilities master planning process consists of two phases, data assembly and analysis and master planning. The data assembly and analysis phase included the following three tasks: orientation, inventory of existing conditions and site evaluation, and program development. The master planning phase included the following three tasks: concept development, master plan development, and the final report. The process is a continuing one, requiring annual review and update.

This document contains the Facilities Master Plan, Capital Facilities Program, and Background and Supporting Information.

The **Facilities Master Plan** includes the following sections:

- **Concept Plan** illustrates the vision of the campus layout twenty years from now.
- **Space Utilization Plan** provides the ultimate functional use of existing and proposed campus facilities and identifies the transfers of organizations, renovations and construction required. Attached maps in the Background and Supporting Information section graphically depict current building conditions and functions.
- **Land Use/Zoning Plan** illustrates recommended changes to achieve an optimum functional grouping of campus facilities.
- **Green Space Overlay** displays the vision discussed at the outset of the process to eliminate the vehicular/pedestrian interface throughout the interior of the campus by transferring the vehicular thoroughfares and major parking to the campus perimeter.

- **Circulation Plan** depicts proposed changes to streets and major parking areas to achieve that vision.
- **Utilities and Technological Infrastructure** provides an evaluation of existing campus utilities and recommendations for improvements.
- **Surrounding Municipalities** states the intent to incorporate the University plan into the comprehensive planning process of each of the surrounding municipalities to move toward the goal of a comprehensive regional plan.

The **Capital Facilities Program** provides the implementation strategies for effecting the plan, including capital project programming requirements within the short-, mid-, and long-term time frames providing cost estimates and phasing schedules of renovation and construction projects identified in the Space Utilization Plan. The program includes education and general facilities as well as auxiliary facilities.

The **Background and Supporting Information** provides a compendium of the basic planning data used in the preparation of the Facilities Master Plan to include the process of collecting data and developing the plan.



# MISSION, GOALS, OBJECTIVES AND ASSUMPTIONS

## UNIVERSITY MISSION

Shippensburg University of Pennsylvania is a regional state-supported institution. It is part of the State System of Higher Education of Pennsylvania, which is made up of 14 universities located in various geographic regions throughout the Commonwealth. Founded in 1871, Shippensburg University serves the educational, social, and cultural needs of students primarily from southcentral Pennsylvania. The University enrolls students from throughout the Commonwealth of Pennsylvania, the mid-atlantic region, the United States, and various foreign countries as well.

Shippensburg is a comprehensive university offering bachelor's and master's degree programs in the colleges of arts and sciences, business, and education and human services. The curricula are organized to enable students both to develop their intellectual abilities and to obtain professional training in a variety of fields. The foundation of the undergraduate curriculum is a required core of courses in the arts and sciences. These courses prepare students to think logically, read critically, write clearly, and verbalize ideas in a succinct and articulate manner; they also broaden students' knowledge of the world, past and present.

The University's primary commitment is to student learning and personal development through effective and innovative teaching and a wide variety of high-quality out-of-class experiences. The ultimate goal is to have students develop to their utmost the intellectual, personal and social capabilities they need to perform as competent citizens prepared to embark on a career immediately upon graduation or after advanced study. The personal attention given each student at

Shippensburg is reflective of the strong sense of community that exists on campus and the centrality of students within it. The University encourages and supports activities which give students many opportunities to apply the theories and methods learned in the classroom to real or practical situations, such as faculty-student research and student internships. Student life programs and activities complement the academic mission and further assist students in their personal, social and ethical development.

Committed to public service and community-centered in its relationships to the region, the university works closely and collaboratively with other organizations at institutional, programmatic and individual levels to develop common goals, share resources and invest cooperatively in the future of the region.



Entry plaza at the Ezra Lehman Memorial Library

## UNIVERSITY GOALS

Shippensburg University continues to employ a very interactive and collegial planning and governance strategy. All departments and units in the university, including the student government association, are actively involved in contributing ideas, suggestions, and recommendations, as the university moves toward fulfilling its mission and objectives. Underpinning all of this, however, is a strong values system which places energetic emphasis on the pursuit of continuous quality in all aspects of the university's operations, especially its teaching and learning activities.

The integration of technology in all phases of university life, the commitment of service to students and the region of which the university is a part, the on-going commitment to develop a university community which is interconnected, but diverse in its make-up, and finally, an emphasis on the importance of intellectualism, good citizenship, and civility as significant goals students should aspire toward.

In addition to the above-mentioned core of values, the university and its various units have identified the following goals to be achieved during the next fiscal year and beyond. They are:

- Maintain an environment that emphasizes excellence, innovation and technology in teaching and learning and results in lifelong purposeful learners.

- Enhance the diversity of the students, faculty, administration, and staff, to improve the campus milieu in which they interact, and to make the curriculum more gender-balanced and inclusive of different cultures and ethnic perspectives.

- Develop and provide curricula in the liberal arts and professional fields that are responsive to the needs of our student body, the region, and society at large.

- Enhance and expand opportunities for students, faculty, administration, and staff to become engaged in community service activities within the region.

- Continue to provide and expand multicultural activities complementary to curricular programs and to support the establishment of a campus environment which embraces an understanding and appreciation of diversity.

- Promote a co-curricular program which provides all students with a wide array of opportunities to enhance their development by being engaged in campus activities as leaders and as active participants.

- Enhance student development opportunities in the residence halls, which are complementary to curricular programs, by exploring and/or expanding the following programs and services: 1) the linking of residence halls with campus computer technology, 2) the use of a television cable system for educational programming and tutoring, 3) the promotion of special living arrangements according to study environment or academic interest area, and 4) the presentation of educational programs based on a community development model.



Gilbert Hall

- Maintain and develop resource management systems and procedures which provide timely and accurate information, assure sufficient accountability and compliance, and support further decentralization of budgetary management and control.

- Develop a more customer centered approach to the provision of financial, administrative, human resources, facilities, public safety and computing services to the University community through application of technology, staff training and functional realignment.

- Make the advantages of state-of-the-art computing and information technology available to all elements of the University using non-proprietary standards and the shared computing power inherent in networking.

- Develop campus physical facilities to more adequately support current programs and services as well as future directions. Develop a facilities master plan to assure efficient and effective allocation and use of

# MISSION, GOALS, OBJECTIVES AND ASSUMPTIONS



space, long-term viability of facilities through adequate maintenance and repair programs, and regulatory and statutory compliance.

- Implement a university-wide marketing program complementing the enrollment management process of the institution that will result in an undergraduate and graduate applicant pool from which to select incoming classes of students who will represent greater diversity, who will graduate in greater numbers and who will yield the best match of interests and abilities with the resources of the university and the needs of the region.
- Continue programs, initiatives, and activities which enhance the work of alumni development, friendraising, and overall university enhancement as it pertains to institutional advocacy and Foundation fundraising.
- Continue emphasizing the University's role in enhancing the quality of life in its service region through economic development initiatives, town/gown relations programming, shared cultural and educational activities, and public service.



Courtyard in the west housing area

## MASTER PLAN GOALS

The Shippensburg University Facilities Master Plan will accomplish the following Goals:

- Promote a campus atmosphere and layout that is conducive to a high-quality educational experience;
- Respond to student, faculty, staff, administration, and citizen-voiced planning concerns;
- Provide guidance for the development, refurbishment and maintenance of campus facilities; and
- Develop and maintain a cost-effective planning strategy.

## MASTER PLAN OBJECTIVES

The Objectives for the Facilities Master Plan that emerge from the Goals statement include the following actions:

- Assessing and responding to current patterns of use (and misuse) of campus space;
- Recommending renovations, furnishings and equipment to improve existing conditions;
- Projecting and planning for future programmatic spatial requirements;
- Recognizing and reporting opportunities for functional and innovative spatial designs, based on research of designed educational settings; and
- Identifying appropriate land acquisition for necessary expansion and/or reorganization of campus facilities.

In order to effectively address citizen concerns, a study of the campus relationship to the surrounding communities will precede site design development. This study will address the following issues:

- Local ordinances, zoning and land use,
- Cooperative dependence of campus and surrounding community facilities, and
- Environmental capacities for local development.

A plan for infrastructure development will precede consideration of campus facility improvement projects. This plan will include the following actions:

- Assessment of current infrastructure conditions (utilities, paving, accessible routes, etc.);
- Projection of infrastructure needs based on current deficiencies, legal and safety requirements, and proposed facility changes;
- Coordination of infrastructure enhancement plans with proposed spatial development plans;
- Updates of campus infrastructure maps, showing related projects; and
- Inclusion of infrastructure-related projects in a Capital Facilities Program.

Campus Architecture Plans should offer the following components: (These elements are not currently part of this Facilities Master Plan effort.)

- Guidelines for construction or renovation of facilities;
- Architectural considerations and vocabulary;
- Coordinated development with utility systems and landscape concepts; and
- Inclusion of architecture-related projects in a Capital Facilities Program.

A Capital Facilities Program will enable Shippensburg University to proceed within a feasible long-term development strategy as outlined in the Facilities Master Plan. The Program, developed in cooperation with University authorities, the Campus Master Plan Committee, the Building Committees, and the Project Management Team will include the following items:

- Scope statements for proposed renovations, construction projects, equipment and furnishings;
- Cost estimates for proposed work based on a reasonable projection of market prices;
- Site plans illustrating planning options; and
- An indication of project phasing based on a ranked priority system (Shippensburg University 1996 Program Planning Guidelines, 4-5).

## MASTER PLAN ASSUMPTIONS

Certain assumptions regarding programmatic goals, current construction, renovation projects, and budget priorities give conscious direction to planning studies and decisions. This plan assumes the following:

- In order to maintain faculty-student ratios and a small University atmosphere, student enrollment will remain relatively constant;
- Plans and budgets should be developed with the understanding that it is unlikely that any additions to complement faculty FTE, staff, or administration will be made for FY 96-97 and beyond;
- The University will continue to explore the development of a continuing education program and the re-establishment of the MBA program in the College of Business;
- The University will continue to implement both the instructional technology plan and the plan for enhancement of administrative computing;

- Several University departments are currently under study for physical reorganization and relocation;
- Current construction will provide needed classrooms, offices and a new computer complex;
- Infrastructure enhancements accompany current construction, and programming, including necessary fiber optic wiring for computers;
- The University will open the mathematics and computing technology annex to Dauphin Humanities Center and the new College of Business building during the next academic year. Renovations will get under way in Shippen Hall preparing it for the College of Education and Human Services;
- Over the next 2-3 years, the University will provide fiber optic wiring to all of the student residence halls on campus making them computer accessible and cable television ready;
- The capital campaign to raise the matching funds for the construction of the two new academic facilities has been successful;
- Partial funding has been secured for an additional Instructional Arts complex;
- State appropriations will be problematic in the future;
- Although no growth is currently projected, the Master Plan will be capable of accommodating future growth; and
- Due to budget constraints, only priority improvement projects will be considered for short-term implementation (Shippensburg University 1996 Program Planning Guidelines, 4-5).



# FACILITIES MASTER PLAN

## CONCEPT PLAN

The *Concept Plan* illustrates the University community's vision of the campus layout 20 years from now. Main features of the plan are provided below.

Realignment of campus vehicular and pedestrian traffic:

- Vehicular thoroughfares and parking transferred from the campus interior to the periphery;
- Green space corridor to provide uninterrupted pedestrian access to campus buildings and activities (see adjacent Green Space Plan);
- Central campus quadrangle to serve as University's main outdoor commons; and
- CUB quadrangle to connect Lehman Library and Cumberland Union to New Instructional Arts Facility.

Realignment of campus zoning:

- Consolidation of Recreational/Athletic uses into the northern end of the campus anchored on the field house and the stadium;
- Establishment of a student services center in the Henderson Gymnasium; and
- Student Housing expansion at the southern and western edges of campus.

Conceptual building footprints:

- New Laboratory School adjacent to Shippen Hall;
- New Instructional Arts Facility;
- Addition to Lehman Library;
- Expansion of Heiges Field House; and
- New Recreation Center.

## SURROUNDING MUNICIPALITIES

The success of this Shippensburg 20 year Master Plan is dependent in part on the support of Shippensburg Township, Shippensburg Borough, Cumberland and Franklin Counties. The University's intent is that the Shippensburg Campus Facilities Master Plan be incorporated into the comprehensive planning process of each of the surrounding municipalities and communities and that all of these plans be molded into a Comprehensive Regional Plan.

## GREEN SPACE

The proposed land use and zoning plan provides a unifying Green space, or green way that overlays the other zones just discussed. This Green space includes pedestrian outdoor spaces serving as focal points that visually and functionally unite the campus. Elements of this zone include walks, malls, plazas, terraces, courtyards, steps and ramps, gardens, lawns and an arboretum. Amenities will include sculpture, benches, trash receptacles, lighting, signage, and outdoor classrooms. The Shippensburg Green Space overlay will provide a pedestrian route from Earl Street in Shippensburg Borough through campus to the athletic fields without crossing vehicular circulation routes.

### PROPOSED GREEN SPACE PLAN

#### LEGEND

GREEN SPACE OVERLAY



# FACILITIES MASTER PLAN



## CONCEPT PLAN





# FACILITIES MASTER PLAN

## SPACE UTILIZATION PLAN

The following building use plan identifies specific projects and sites.

### Rowland Hall

- Relocate the existing lab school to the proposed addition at Shippen Hall.
- Relocate the Head Start Program to an off site location.
- Renovate to accommodate the Communications/Journalism Department from Wright Hall and the Modern Languages Department from Shippen Hall.
- Maintain the existing auditorium.

### Stewart Hall

- Transfer AFSCME offices to Horton Hall.
- Renovate to become a center for University functions, a repository for historic University archives, campus location for museum and exhibits, and possible location for Visitors Center; main alterations include removal of temporary partitions to restore the original gymnasium configuration and modifications to accept flexible exhibits.

### Old Main

- Transfer the Office of Alumni Affairs to 300 North Prince Street.
- Complete Phase 2 of the Capital Project Improvements and Renovations; this includes renovations of the Chapel, Graduate Studies area, Dining area, and Fourth Floor.

### Gilbert Hall

- Transfer the Psychology Department to Franklin Science Center.
- Renovate to accommodate Student Affairs functions to include space for Multicultural Affairs, Women's Center, Offices for Women's Studies, International Studies, and Ethnic Studies.

### Horton Hall

- Transfer the College of Education and Human Services to Shippen Hall.
- Transfer Special Academic Programs to the proposed addition to Lehman Library.
- Transfer the Women's Center to Gilbert Hall.
- Relocate the Head Start offices to an off site location.
- Renovate to provide office space for the ROTC program, APSCUF and AFSCME union activities, and temporary employees and auditors.
- Maintain the current space occupied by the Institute for Public Service.

### Henderson Gymnasium

- Transfer all health, physical education, athletics, and recreation programs and offices to Heiges Field House.
- Renovate to accommodate centralized area for student services that will give the student one-stop shopping for such items as undergraduate and graduate admission, financial aid, and residence life; other student services will include the Counseling Center and Commuter Center; the Commuter Center will include a lounge, study area, and lockers.

### Reed Operations Center

- Construct an addition for receiving, storage, and a 25,000 SF maintenance courtyard.

### Harley Hall

- Transfer Fashion Archives to Wright Hall.
- Renovate for student housing functions.

### McCune Hall

- Transfer Day Care Center to the proposed addition to Shippen Hall.
- Renovate for student housing functions.

### Riesinger House

- Demolish structure.
- Construct new campus entrance with improved line of sight to relocate one of the main traffic corridors away from campus center to the periphery.

### Wright Hall

- Transfer Counseling Center to Henderson Gymnasium.
- Transfer Campus Ministry to the proposed Chapel on SU Foundation property.
- Transfer ROTC to Horton Hall.
- Transfer Communications/Journalism Department to Rowland Hall.
- Renovate Wright Hall to accommodate the Vertebrate Museum from Franklin Science Center to the lower level, the Fashion Archives from Harley to the first floor, and faculty that did not transfer to John L. Grove Hall from Faculty Office Building.
- Maintain the upper levels as office space.

### Faculty Office Building (Red Barn)

- Relocate and reuse structure on site location to be determined.

### Heiges Field House

- Renovate facility and construct new addition to accommodate all health and physical education, athletic, and recreation programs including classrooms, offices and labs to be transferred from Henderson Gymnasium.
- Provide an interconnection to the proposed Instructional Arts Facility.

### Proposed Instructional Arts Facility

- Construct a new facility that will include an auditorium with seating for 2,000 people, support for the performing arts, Music Department, Music rooms (such as piano labs), Gallery, Scene Shop, Labs, Offices, Studios, Black Box Theater, and Green Room; relocation of existing tennis courts will be necessary to make room for proposed facility.

### Ezra Lehman Library

- Construct a new addition to accommodate a proposed program that will include:
  - Writing Institute
  - Archive for Special Collections
  - University Archives
  - Classrooms for Library Science
  - Honors Program
  - Faculty Research
  - Learning Assistance Center (from McLean Hall)
  - Special Academic Programs (from Horton Hall)
  - Learning Research and Assessment Center (from Dauphin)

### DGS Building

- Include provisions in DGS construction contracts for contractors to provide temporary office support for DGS construction supervision.
- Demolish structure.

### McLean Hall

- Transfer Learning Assistance Center to the proposed Library addition.
- Renovate for student housing functions.

### Naugle Hall

- Transfer Commuter Center to Henderson Gymnasium.
- Renovate for student housing functions.

### Franklin Science Center

- Renovate existing building electrical, telecommunications/data, air handling, and mechanical systems.
- Renovate building to include current vacant space to accommodate the Psychology Department transferred from Gilbert Hall.
- Construct new addition to support existing science programs, laboratories, and research functions.

### Shippen Hall

- Transfer the College of Business to John L. Grove Hall.
- Transfer the Modern Languages Department to Rowland Hall.
- Construct an addition to house new Lab School (relocated from Rowland Hall) and the Day Care Center (transferred from McCune Hall).
- Renovate the facility to accommodate the College of Education and Human Services from Horton Hall and the Counseling Department from the Annex adjacent to Huber Arts Center.
- Redefine main entrance to Shippen Hall to support master plan and campus mall.

### Huber Arts/Annex

- Transfer Counseling Department to Shippen Hall.
- Renovate combined facility to accommodate Art Department requirements to include computer design labs, print studios, Ceramics studios, and new enclosure and connection to existing kiln.

### Shearer Hall

- Renovate and upgrade mechanical, electrical and telecommunications/data systems; coordinate and integrate with renovation of Rowland Hall.

### Memorial Auditorium

- Transfer Music Department to proposed Instructional Arts Facility.
- Maintain to accommodate the Theater Department, small Drama and Musical productions, and large lecture and educational seminars.
- Provide for additional theater storage in the lower levels of Rowland and Shearer Halls.

### 300 North Prince Street (Alumni House)

- Renovate from residential to office use to accommodate the Office of Alumni Affairs from Old Main

# FACILITIES MASTER PLAN



## PROPOSED SPACE UTILIZATION PLAN

### LEGEND

- ACADEMIC
- ADMINISTRATION
- RECREATION / ATHLETIC
- HOUSING
- CAMPUS SUPPORT
- PUBLIC
- STUDENT SUPPORT





# FACILITIES MASTER PLAN

## PROPOSED LAND USE / ZONING

As discussed in the *Background and Supporting Information Chapter* under the *Land Use Section*, the existing Campus Land Use, or zoning, has a strong basic structure. This master plan recommends several changes to achieve optimum functional grouping of campus facilities. These improvements are discussed below.

### Academic Land Use

The center Academic zone will be expanded to include the entire area around Huber and Rowland Halls at Prince Street and Adams Drive. This forms a single Academic core in the center of campus and will be the heart of Shippensburg University. All of the other zones surround this Academic core, supporting Shippensburg's mission of education.

### Administration

The Administration zone includes Old Main, Horton and Gilbert Halls, and extends from Old Main to Route 696, Earl Street. This creates a "front door" for the campus, opening to the surrounding community. This zone is adjacent to the Academic zone and the west Student Support Zone. This proposal consolidates the administration in one area convenient to the Academic functions.

### Recreation/Athletic

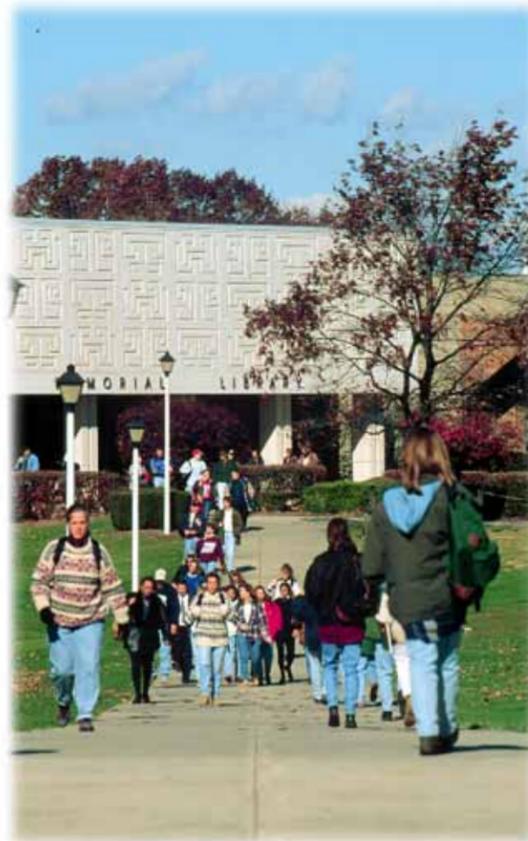
The Athletic zone is located in two areas of the campus: north/northeast of the Academic zone, and at the south end of the campus. This expanded area will accommodate all physical education, varsity and intramural athletics. It also includes major recreation facilities and non-University community recreation. The existing physical education, athletic, and recreation functions, currently housed in Henderson Gymnasium, moves to the proposed north/northwest area to accommodate expanded and improved facilities.

### Student Support

There will be two Student Support zone areas, located on the east and west side of campus. The west area will include dining and food service for the west housing as well as Henderson Student Services Facility. Improvements will include a significant area of parking for the west housing, commuter students and the student services facility. The east area will include the Cumberland Union Building, dining and food service for the east housing, health services and parking for the housing, athletics and the proposed Instructional Arts Facility.

### Housing

Housing is also divided into the east and west sides of campus, but both are adjacent to the Academic and Student Support zones. The west Housing area includes the recently renovated President's residence, the Martin House. Also, Harley, Kieffer, Lackhove and McCune resident halls and their supporting quadrangles and mini-recreation areas are in this zone.



Main Walk to the Ezra Lehman Memorial Library

The master plan recommends expansion of the west Housing area onto privately owned land and Shippensburg Foundation land.

The east Housing area includes Naugle, McLean, Mowrey, and Seavers Apartments resident halls and their supporting quadrangles and mini-recreation areas. The Master Plan recommends expanding this area to the southeast onto Foundation owned land.

### Campus Support

The Campus Support zone is located in three areas of the campus. The main area includes the Reed Operations Center and its adjacent yards, and continues to State Route 696 as a service vehicle entrance. This plan separates service and maintenance traffic from the other campus users, especially those entering the Administrative zone.

The second Campus Support area includes the Steam plant and associated facilities. The third area is located to the northeast, adjacent to Fogelsanger Road.



Typical campus walkway

### Public

Public zones includes areas where the general public is encouraged to visit and use campus facilities. These zones include: the proposed Lab School, a portion of the Instructional Arts Facility, Stewart Hall and the proposed Chapel donated with private funds on Foundation property.

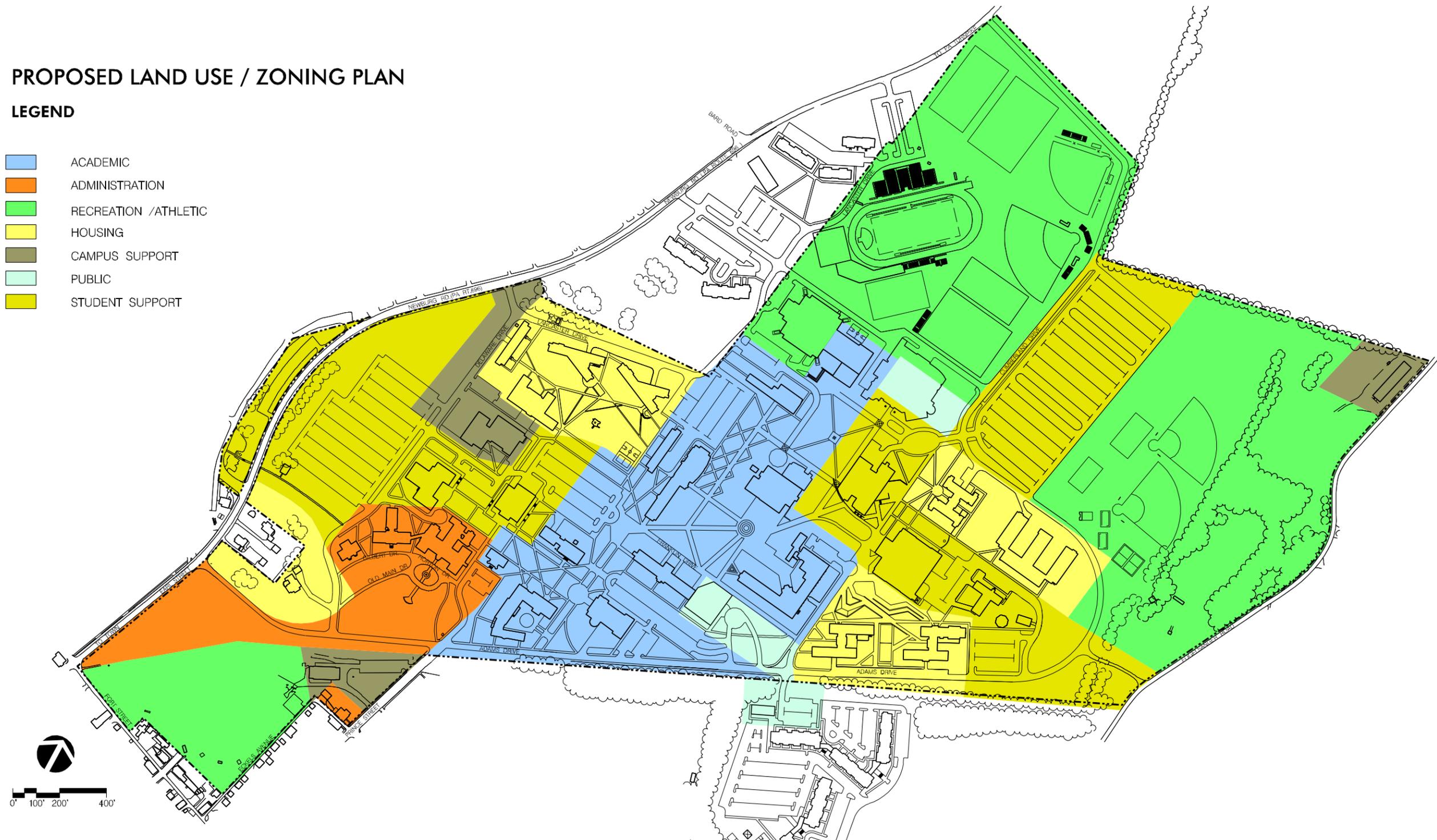
# FACILITIES MASTER PLAN



## PROPOSED LAND USE / ZONING PLAN

### LEGEND

-  ACADEMIC
-  ADMINISTRATION
-  RECREATION /ATHLETIC
-  HOUSING
-  CAMPUS SUPPORT
-  PUBLIC
-  STUDENT SUPPORT





# FACILITIES MASTER PLAN

## CIRCULATION SYSTEM

The majority of people come to the campus from the east and south using Interstate 81 and Route 696. There are several measures that will improve access to campus.

The first recommendation is that Earl Street should be extended to Olde Scotland Road, making State Route 696 a more direct and suitable access from Interstate 81. The second recommendation is a by-pass connecting State Route 174 Walnut Bottom Road, to Britton Road. This starts at the intersection of U.S. Route 11 King Street, traveling west to northwest adjacent to Brookside Avenue to State Route 3001 Britton Road. These routes offer direct access to the Campus while minimizing the traffic impact on the downtown area.

The intersection of Old Main Drive and Earl Street will become the Main Entrance to the campus. The University should direct all visitors to use this entrance when first entering the campus. Pamphlets, directions from the admissions office, trail blazer signs and maps can be used to provide this direction. A new Main Service entrance and drive will be constructed off of Newburg Road to allow easy access to the main Campus Support facility. Several other secondary entrances include: the east entrance where Lebanon Drive meets

Fogelsanger; the North Prince Street Entrance; Foundation Drive at State Route 696; and the north entrance at the extreme north end of campus.

Much of the vehicular circulation plan is based on the premise that a perimeter loop system is the ideal system. The loop can be realized by using mostly existing roads, and removing and extending others. Some new roads would also be constructed.

The Main Entrance at State Route 696, Earl Street is the beginning of Old Main Drive, which will continue in front of Old Main to the existing intersection of North Prince and Adams Drive. Adams Drive will then continue east along the southern boundary of the campus and loop north to intersect with Lebanon Drive and the east entrance. From there, Adams Drive continues north then loops west to existing Cumberland Drive. Cumberland Drive will not be a through vehicle route from Adams to the tennis courts. It will start at this new intersection and proceed north to a new east/west road between Heiges Field House and the stadium. There are several alternate routes at this point north to the athletic fields.

The campus loop now goes south on Lancaster Drive at the intersection of the new east/west road. The existing Lancaster Drive continues south to the corner of the property boundary, then west to State Route 696 to the Main Service Entrance. This last section of Lancaster Drive must be realigned and widened to serve as a new drive from the Main Service Entrance south behind Henderson. At this point, the loop turns east at Gilbert Hall and connects back to the proposed Old Main Drive.

The purpose of the loop system is to eliminate traffic through the core areas of the campus. To achieve this objective several campus roadways need to be eliminated including Gilbert, Horton, Dauphin, York and Franklin Drives, and a section of Cumberland Drive.

Four major parking areas are proposed along this loop. Parking for 1,000 cars will be provided behind Henderson Hall; 250 spaces at Memorial Auditorium; 200 spaces east of McLean Hall by expanding the existing lot; and 1,200 spaces by the existing tennis court lots through expansion.

In order to provide for functions such as fire protection, service and maintenance access, parking, and access for the disabled, several minor drives need to penetrate the campus core. A visitor only parking lot will be located adjacent to Old Main at Stewart. A faculty/staff lot for 215 cars will be provided at York Drive east of the Reed Operations Building. This will replace the current Stewart lot.

The Loop Road concept, traffic free core, and Green Space will eliminate vehicle/pedestrian conflicts and result in a pedestrian oriented campus full of exciting outdoor spaces, views and vistas.

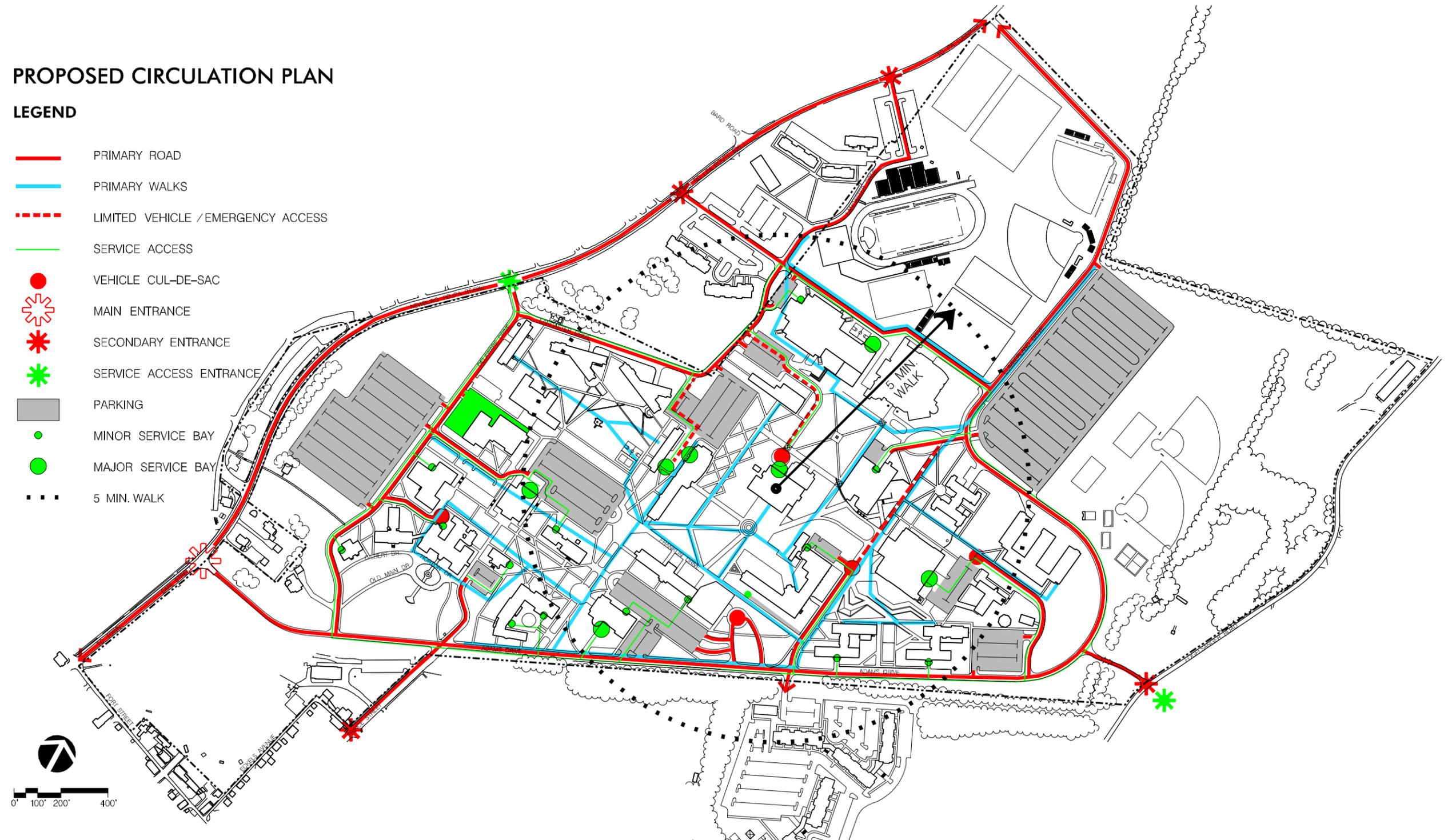
# FACILITIES MASTER PLAN



## PROPOSED CIRCULATION PLAN

### LEGEND

-  PRIMARY ROAD
-  PRIMARY WALKS
-  LIMITED VEHICLE / EMERGENCY ACCESS
-  SERVICE ACCESS
-  VEHICLE CUL-DE-SAC
-  MAIN ENTRANCE
-  SECONDARY ENTRANCE
-  SERVICE ACCESS ENTRANCE
-  PARKING
-  MINOR SERVICE BAY
-  MAJOR SERVICE BAY
-  5 MIN. WALK





# FACILITIES MASTER PLAN

## UTILITIES & TECHNOLOGICAL INFRASTRUCTURE

### WATER SYSTEM

The condition of the water distribution system on campus is good. Capacity is adequate, and can accommodate the University's present and future development needs. Maintenance activities should be performed routinely to ensure proper operation of the system.

### STORM DRAINAGE SYSTEM

The storm drainage system has been built incrementally over the years through additions, renovations and improvements. Some of these additions and improvements were built independently, without consideration of the operation of the overall system. Physical plant staff indicate that water runoff has been accumulating in certain areas of the campus. Such areas include Adams Drive, where water has been accumulating around the abandoned railroad bed and runs onto Prince street.

State storm water regulations require the university to maintain the current outfall peak outflow rates as the campus is developed. Control of these outflow rates will be a significant undertaking, given the undersized piping and inadequate placement of drainage structures.

### SANITARY SEWER SYSTEM

The water usage on campus has doubled since the construction of the ten-inch outflow main, and is still increasing. A section of the main line that connects to the Borough's main collection line near Reed Operations Center is undersized, and cannot immediately accommodate the quantity of sewage added by the pumping station. The temporary backup of sewage is currently accommodated by the existing system, but this situation will only worsen with increasing flows.

In addition, in the case of failure of this outflow main, the university would have to be completely shutdown. Failure of the two pumping stations would cause a shutdown of half of the University's instructional, residential, and food service capability, as the other half is being drained by gravity.

To provide adequate capacity for the University's present and future development needs, it will be necessary to upgrade the sanitary system. Plans to connect the campus' system to the Cumberland Franklin Joint Municipal Authority main located north of the new student recreation facility along Cumberland Drive is being currently studied by the University. If this plan is authorized the area of the campus currently serviced by sewage pumps will be drained by gravity to that main.

### STEAM SYSTEM

The majority of steam lines are of appropriate size and provide adequate steam volumes to the buildings, with the exception of the lines feeding McCune and Kieffer Halls. These lines will need to be replaced in the near future. The University is currently upgrading valves and manholes to improve efficiency of the system. The boiler plant is in good condition and is currently running at between 75 to 100 percent of capacity. Boilers #1, #2 and #3 are in good condition and supply the majority of the campus steam. Boiler #4 is primarily used as a back up and to provide steam during peak demand periods. The stoker for boiler #4 is unreliable and requires replacement. Boiler #4 also is used to provide steam during peak periods. The capacity of the steam plant is adequate for the current needs of the University, but expansion of the existing steam plant or the construction of a satellite steam facility will be required to satisfy future expansion and development needs.

### GAS SYSTEM

All gas lines are in good condition. The capacity is adequate for the University's present and future development needs.

### ELECTRICAL SYSTEM

The existing electrical system has adequate capacity to provide electricity for the University's present needs. Upgrades to the existing electrical system will be necessary to provide capacity for future expansion. Future projects are the renovation of the older feeder lines and the addition of a second transformer.

### TECHNOLOGICAL INFRASTRUCTURE

Future plans incorporate a fiber optic backbone network system into the residence halls infrastructure.

The future plan upgrades the network from ethernet hubs to switches. This will increase the transmission speed from 10MB per second to 100MB per second. This speed will help improve the transmission time when sending large files such as those found in the art department.

The University is planning to move to asynchronous transfer mode systems within three years. New buildings should be designed to accommodate these future hybrid networks.

# CAPITAL FACILITIES PROGRAM



**0-5 YEAR TOTAL \$123,757,000**

**ACADEMIC TOTAL \$53,422,000**

- 1 Renovations to Franklin Science Center \$5,000,000**
  - Upgrades to electrical power and telecommunications / data
  - New laboratories including casework
  - Improvements to air quality
  - New addition to support existing science programs, laboratories, and research
- 2 Shippen Hall Renovations and Construction of New Lab School \$6,000,000**
  - Renovate entrance to support campus master plan and campus "mall".
  - Construct new Lab School
- 3 Renovation of Shearer and Rowland Halls \$1,700,000**
  - Upgrade Shearer Hall's electrical / data system
  - Renovate Rowland Hall for use by the College of Arts and Sciences
- 4 Huber Arts Center Renovation \$1,091,000**
  - Renovate for Art Department
  - New computer design labs, print studios, enclosure and connection to kiln
- 5 Construction of Instructional Arts Center, facility to include: \$19,853,000**
  - Auditorium
  - Support for Performing Arts
  - Music Department
  - Music Rooms
- 6 Renovations and Additions to Lehman Library (Proposed 55,000 sf addition to meet proposed Program) \$19,778,000**
  - Writing Institute
  - Archive for Special Collections
  - Classrooms for Library Science
  - Faculty Research
  - Learning Assistance Center
  - Special Academic Programs

**STUDENT SUPPORT TOTAL \$18,831,000**

- 7 Henderson Hall Renovation \$6,631,000**
  - Renovate to accommodate centralized student services, commuter center, and counseling center
- 8 CUB Entrance Renovation \$300,000**
  - New walkways, vehicular circulation, and planting
- 9 Residence Hall LAN Connection \$5,000,000**
  - Computer and CATV network connections to all Residence Halls
  - Dedicated electric circuit to each student room
  - Selected electrical safety upgrades
  - Selected lightning and ceiling replacements
- 10 CUB Building Renovations \$2,000,000**
  - Life cycle upgrades of mechanical and electrical systems
  - Life safety upgrades - fire alarm system
  - Replacement of windows and doors
  - Replacement of wall and floor finishes
- 11 Harley Hall Renovations \$650,000**
  - Renovate for student housing functions
- 12 Mowrey Hall Renovations \$650,000**
  - Renovate for student housing functions
- 13 Kriner Dining Hall Renovations \$500,000**
  - Modification / additions to HVAC system
  - Life safety upgrades - fire alarm system
  - Restroom upgrades
- 14 Old Main Century Room Renovations \$500,000**
  - Dining room renovations
  - Installation of new kitchen equipment
- 15 Reisner Dining Hall Renovations \$450,000**
  - Upgrade existing entrance
  - Restroom upgrades
- 16 Food Wastewater Upgrade \$250,000**
  - Upgrade existing grease interceptor system

**17 Seaver Apartments Structural Repairs \$150,000**

**18 Gilbert Hall Renovations \$1,750,000**

- Renovate for Student Affairs Organizations

**ADMINISTRATIVE TOTAL \$1,200,000**

**19 Old Main Renovations Phase II \$1,200,000**

- Complete renovations to Old Main
- Fourth Floor
- Chapel
- Graduate Study Area
- Dining Area

**PUBLIC TOTAL \$10,470,000**

**20 Proposed Chapel \$1,800,000**

- (Proposed New Chapel to be funded by the SU Foundation)

**21 Horton Hall Renovations \$6,920,000**

- Renovate to provide office space for Institute for Public Service, ROTC, and employee unions functions.

**22 Stewart Hall Renovations \$1,750,000**

- Renovate for use as visitor's center, conference center, and University Museum

**GREEN SPACE AND PEDESTRIAN CORRIDORS TOTAL \$5,911,000**

**23 Center Campus Quadrangle Phase I \$2,500,000**

- Improvements to center campus area defined by Shippen Hall, Dauphin Hall, Grove Hall, Lehman Library, and Franklin Science Center
- Construction of new walkways, seating areas, gathering spaces, and plantings

**24 Shippen Hall/Lab School Site Improvement and Parking Lot \$1,170,000**

- (Site improvements associated with

upgrade of Shippen Hall and the addition of the new lab school)

- New walkways, vehicular circulation, parking lot extension, and plantings

**25 Traditional Quadrangle behind Old Main \$850,000**

- Construction of new traditional quadrangle which includes new walkways, seating areas, gathering spaces, and plantings

**26 CUB Quadrangle \$450,000**

- Construction of new traditional quadrangle which includes new walkways, seating areas, gathering spaces, and plantings

**27 Franklin Science Center \$435,000**

(Site Work Associated with Addition and Renovations)

- New walkways, vehicular circulation, parking lot extension, and plantings

**28 Front Campus Landscaping \$250,000**

- Replacement and addition of planting in the vicinity of Old Main

**29 Landscape Improvements - Phase I \$250,000**

- Exterior improvements campus wide includes roads, walks, malls, plazas, terraces, steps, courtyards, ramps, plantings, and exterior lighting

**30 Demolition of DGS Building \$6,000**

**UTILITIES TOTAL \$11,428,000**

**31 Electrical Distribution Phase 2 \$8,000,000**

- Renovation of feeder lines and addition of new transformer

**32 Steam Plant Boiler #4 Upgrade \$545,000**

- Upgrade stoker

**33 Sanitary Sewer Upgrade \$383,000**

- Improvements and upgrades to existing system to maintain overall performance

**34 Steam System Improvements Phase 2 \$2,500,000**

- Upgrade of existing steam lines

**ROADWAY TOTAL \$1,418,000**

**35 Main Entrance/Adams Drive Extension \$610,000**

- Construction of improved main entrance and extension of Adams Drive to improve vehicular circulation

**36 New Service Entrance Phase I New West Drive \$380,000**

- Construct new entrance from State Route 696
- Construct new roadway connection from new entrance to Reed Operations Center

**37 Reed Operations Building/ Kriner Hall Parking Lot \$83,000**

- Construction of new parking lot to serve Physical Plant and Police Station

**38 Old Main Visitor's Parking Lot \$345,000**

- Construction of New Visitor's Parking Lot

**RECREATION/ATHLETIC TOTAL \$21,077,000**

**39 Tennis Court Relocation \$750,000**

- Relocation of athletic fields and existing tennis courts for the construction of New Instructional Arts Center

**40 Athletic Field Lighting \$500,000**

- New lighting for Student Recreational Area

**41 Heiges Field House Addition/Renovation \$16,527,000**

- Renovate and construct new addition to accept all physical education programs

**42 Athletic Field Complex \$3,300,000**

- Renovation and expansion of existing athletic fields



# CAPITAL FACILITIES PROGRAM

**5-10 YEAR TOTAL \$31,248,000**

**ACADEMIC TOTAL \$4,124,000**

- 43 Dauphin Hall Renovations \$4,124,000**
  - Life cycle upgrades of mechanical and electrical systems
  - Life safety upgrades - fire alarm system
  - Replacement of windows and doors
  - Replacement of wall and floor finishes

**STUDENT SUPPORT TOTAL \$3,000,000**

- 44 Student Housing Renovations \$850,000**
  - Upgrade existing student housing
- 45 McCune Hall Renovations \$750,000**
  - Renovate for student housing functions
- 46 Residence Hall Elevators \$750,000**
  - Upgrade existing McLean and Naugle Hall elevators to conform to current regulations
- 47 Naugle Hall Renovations \$650,000**
  - Renovate for student housing functions

**ROADWAY TOTAL \$5,745,000**

- 48 Henderson Hall Parking Lot \$1,340,000**
  - Construction of parking lot to provide 1000+ parking spaces
- 49 East Satellite Parking Lot Phase 1 \$775,000**
  - Enlarge existing parking lot to provide additional campus parking
- 50 McLean Hall/East Entrance Parking Lot \$530,000**
  - Construct new parking lot to serve east residence halls

- 51 Dauphin Hall Parking Lot \$490,000**
  - Construct new parking lot to serve Dauphin Hall, Grove Hall, and nearby residence halls

- 52 Grove Hall Parking Lot \$245,000**
  - Construct small parking lot to serve Grove and Heiges Halls

- 53 Recreation Center Parking Lot \$245,000**
  - Construct new parking lot to serve proposed Recreation Center

- 54 Stadium Parking Lot \$230,000**
  - Construct new parking lot to provide additional parking at stadium

- 55 New East Entrance and East Drive \$745,000**
  - Construct new entrance to campus from Fogelsanger Road
  - New roadway to provide an exit from north campus to State Route 696

- 56 Center Campus Parking \$745,000**
  - Construct central campus parking lot near Reed Operational Building

- 57 Instructional Arts State Route 696 Entrance \$340,000**
  - Construction of New Entrance to serve proposed Instructional Arts Center

- 58 New West Drive \$185,000**
  - New Roadway to connect Old Main area to Newburg Road

**GREEN SPACE AND PEDESTRIAN CORRIDORS TOTAL \$3,660,000**

- 59 Center Campus Quadrangle Phase 2 \$2,500,000**
  - Improvements to center campus area defined by Shippen Hall, Dauphin Hall, Grove Hall, Lehman Library, and Franklin Science Center
  - Construction of new walkways, seating areas, gathering spaces, and plantings

- 60 Landscape Improvements Phase 2 \$150,000**
  - Exterior improvements campus wide includes roads, walks, malls, plazas, terraces, steps, courtyards, ramps, plantings, and exterior lighting

- 61 North/South Corridor \$1,010,000**
  - Construction of central greenspace linking Center Campus Quadrangle to Old Main Area of Campus.
  - Exterior improvements campus wide includes roads, walks, malls, plazas, terraces, steps, courtyards, ramps, planting, and exterior lighting

**UTILITIES TOTAL \$4,000,000**

- 62 Electrical Distribution Phase 3 \$1,500,000**
  - Renovation of feeder lines

- 63 Steam System Improvements Phase 3 \$2,500,000**
  - Upgrade of existing steam lines

**CAMPUS SUPPORT TOTAL \$1,719,000**

- 64 Reed Operations Center Storage Yard \$190,000**
  - Construct new storage yard for physical plant operations

- 65 Central Services Building \$1,529,000**
  - Construct new facility to centrally consolidate warehousing of common supplies

**RECREATION/ATHLETIC TOTAL \$9,000,000**

- 66 New Recreation Center and Stadium Addition \$9,000,000**
  - Construction of new recreation center to provide centralized facility for student and faculty recreation.
  - Construction of new addition to Stadium which will provide new locker rooms and expanded grandstands

**10-20 YEAR TOTAL \$8,400,000**

**ACADEMIC TOTAL \$4,150,000**

- 67 Memorial Auditorium Renovations \$2,200,000**
  - Renovate for Theater Department use
  - Renovate for lecture and educational seminars

- 68 Wright Hall Renovations \$1,950,000**
  - Renovate to provide additional office space

**ROADWAY TOTAL \$850,000**

- 69 East Satellite Parking Phase 2 \$850,000**
  - Improve and enlarge existing parking lot to provide campus parking

**GREEN SPACE AND PEDESTRIAN CORRIDORS TOTAL \$3,400,000**

- 70 Center Campus Quadrangle Phase 3 \$2,500,000**
  - Improvements to center campus area defined by Shippen Hall, Dauphin Hall, Grove Hall, Lehman Library, and Franklin Science Center
  - Construction of new walkways, seating areas, gathering spaces, and plantings

- 71 East Dorm Quadrangle \$750,000**
  - Construction of green space linking east campus dorms
  - Exterior improvements including plaza, terraces, steps, courtyards, ramps, plantings, and exterior lighting

- 72 Landscape Improvements Phase 3 \$150,000**
  - Exterior improvements campus wide including roads, walks, malls, plazas, terraces, steps, courtyards, ramps, plantings, and exterior lighting

# CAPITAL FACILITIES PROGRAM



## CAPITAL FACILITIES PROGRAM

### LEGEND

- Additional Items 0–5 Year Phase
  - 9 Residence Hall LAN Connection
  - 14 Old Main Century Room Renovations
  - 16 Food Wastewater Upgrade
  - 29 Landscape Improvements – Phase 1
  - 31 Electrical Distribution – Phase 2
  - 32 Steam Plant Upgrade Boiler #4
  - 33 Sanitary Sewer Upgrade
  - 30 Demolition of DGS Building & Riesinger House
  - 40 Athletic Field Lighting
- Additional Items 5–10 Year Phase
  - 44 Student Housing Renovations
  - 46 Residence Hall Elevators
  - 60 Landscape Improvements – Phase 2
  - 63 Steam System Improvements – Phase 2
  - 62 Electrical Distribution – Phase 3
  - 65 Central Services Building
- Additional Items 10–20 Year Phase
  - 72 Landscape Improvements – Phase 3
- Additional Items 0–20 Year Phase
  - 23 Center Campus Quadrangle – Phase 1
  - 59 Center Campus Quadrangle – Phase 2
  - 70 Center Campus Quadrangle – Phase 3





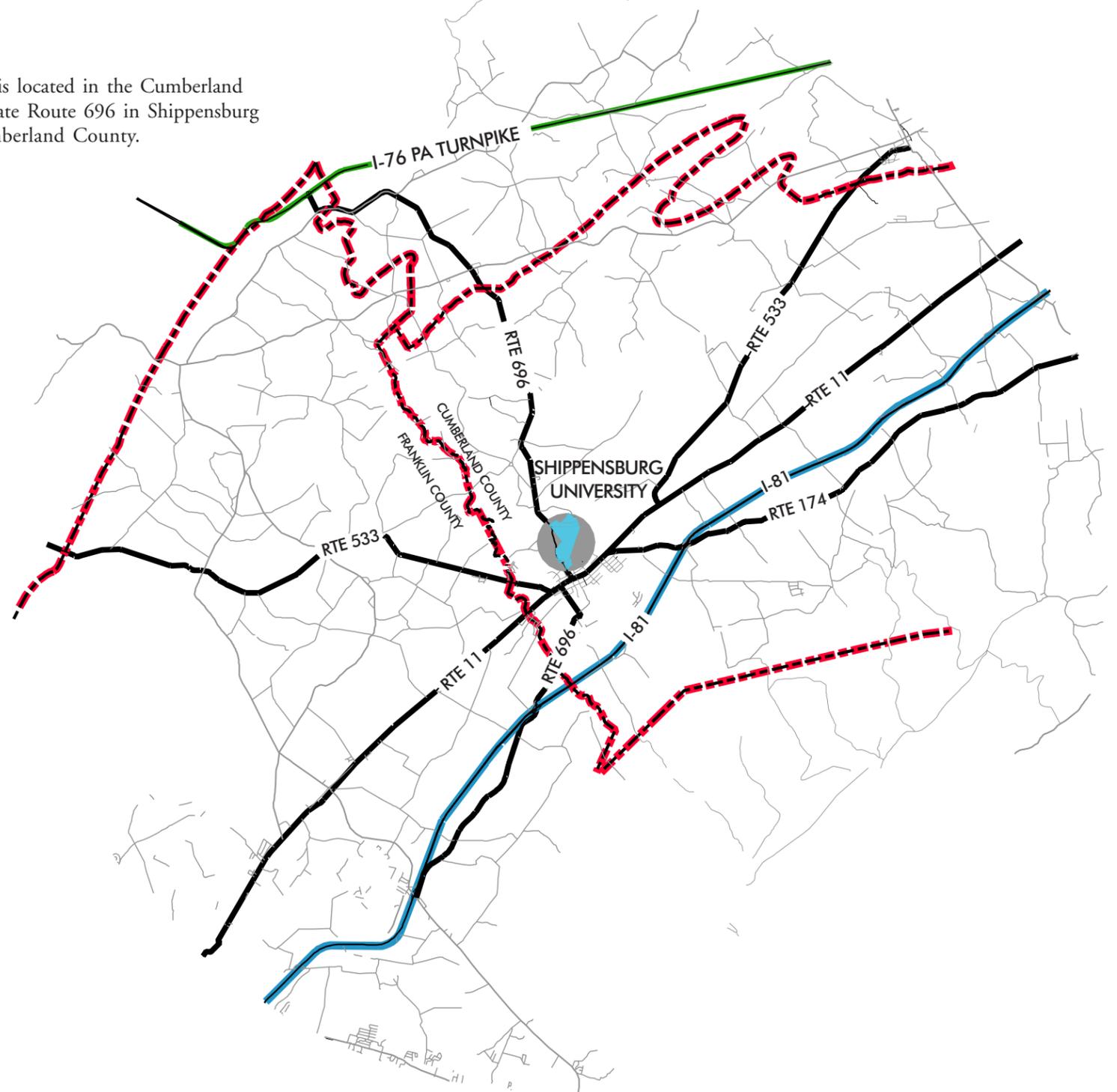
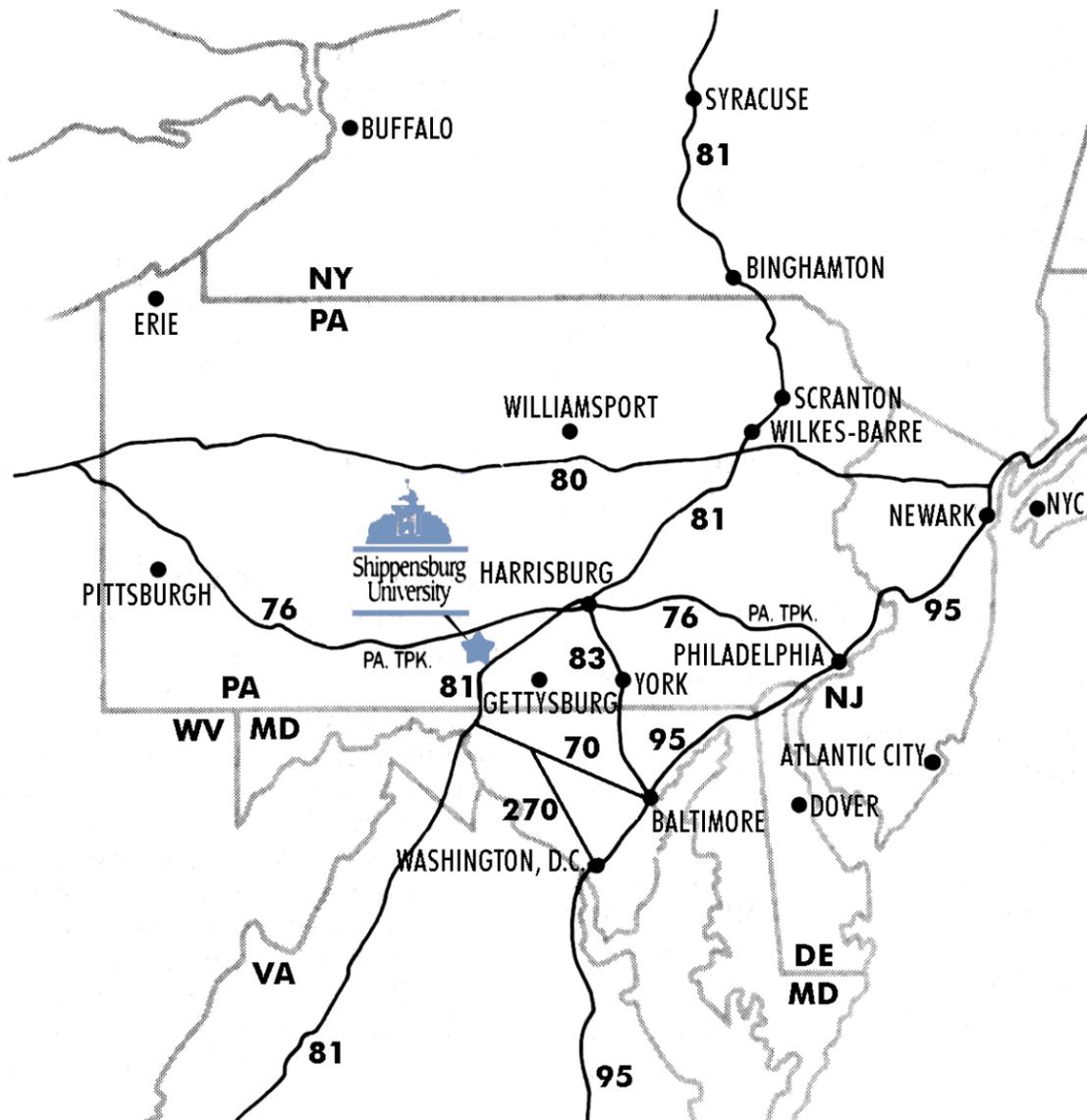
# BACKGROUND AND SUPPORTING INFORMATION

## REGIONAL LOCATION

Shippensburg University is centrally located to the Pittsburgh (168 miles), Philadelphia (142 miles), Washington, D.C. (109 miles) and Baltimore (107 miles) metropolitan regions.

## VICINITY

The University is located in the Cumberland Valley, off of State Route 696 in Shippensburg Township, Cumberland County.



# BACKGROUND AND SUPPORTING INFORMATION



## THE PROCESS

The process for developing the Facilities Master Plan for Shippensburg University began with the implementation of the Data Assembly and Analysis Phase including an Orientation Task, an Inventory of Existing Conditions, and a Program Development Task. Students, faculty, administration, staff and the regional community surrounding the Shippensburg Campus were involved in Phase I.

It was important that this entire Data Assembly and Analysis be completed, reviewed and agreed upon by the Campus User prior to preparing Schematic Plans. This process was completed with final review in August, 1996 and Final reports were issued in September, 1996. These initial tasks created the basis for planning.

The planning team began an analysis of this collected information. The objectives were prioritized by combining the issues and evaluating their positive and negative implications. A retreat was held on February 14, 1997 with the University's Executive Management Team to set the direction of the planning concepts in relation to the University Academic Plan. The direction given at this February, 1997 retreat formulated a Campus Plan Concept allowing the planning team to develop a Schematic Facilities Master Plan including land use, circulation (vehicle and pedestrian), greenspace overlay and building use.

A series of presentation workshops were scheduled in May, 1997 to explain the Schematic Plan to all the user groups and encourage feedback from these groups. The results of these May, 1997 sessions resulted in the Preliminary Facilities Master Plan, which was presented to the Executive Management Team and the Master Plan Committee on April 28, 1997, and finally presented to the Trustees for conceptual approval on May 16, 1997. The Trustees approved the Preliminary Plan authorizing development of the Final Facilities Master Plan document.

## THE CAMPUS USER DATA

The campus user includes the University community of students, faculty, administration, staff and visitors. It also includes the regional community of Shippensburg Borough, Shippensburg Township, Southampton Township - Franklin County, Southampton Township - Cumberland County and the Pennsylvania Department of Transportation (PennDOT). Finally, it includes, the interests of the State System of Higher Education (SSHE).



Students are the focus of the campus community.

The process of collecting input from those who would use the campus most included a series of workshops to gather thoughts, ideas, opinions, concerns, needs and desires of the University users. The workshops were open discussions scheduled by the planning team during November, 1995 through March, 1996.

The following is a list of workshops conducted:

- Executive Management Team and Campus Master Plan Committee  
November 11, 1995
- Business College Council and Administration and Finance Council  
November 28, 1995
- University Forum, Arts and Sciences College Council and Planning and Budget Council  
November 28, 1995
- Association of Pennsylvania State College and University Faculties / Shippensburg University Executive Committee  
November 29, 1995
- Education and Human Services College Council and Graduate Council  
November 29, 1995
- Student Senate  
November 29, 1995
- American Federation of State, County, and Municipal Employees Executive Board  
November 30, 1995
- Faculty  
March 25 & 26, 1996
- Administration and Staff  
March 25, 1996
- Students  
March 26, 1996
- Academic Deans and Directors  
March 27, 1996
- General Open Session  
March 27, 1996



The Academic Deans and Directors Workshop was held on March 27, 1996.

All of the collected information and issues have been recorded. Each individual statement has been part of this recording and each has been reviewed and given consideration during the program development and master plan conceptual studies. It should be noted that current construction and renovation activities as well as the recently enacted SSHE academic facilities renovation program already respond in part to some of the needs identified. For example, both Franklin Science Center and Shippen Hall, as well as Huber Art Center and Rowland and Shearer Halls, will be partially renovated under this program. In addition, over the course of the last several months installation of a campus-wide computer network has been completed in all buildings with the exception of residence halls.

The following list includes issues that were discussed in the workshops:

- The Ezra Lehman Memorial Library requires an expansion and/or upgrades. It also lacks new technologies such as electronic filing.
- Space and facilities for music and theater instruction and performances are inadequate.

- The Rowland School location adversely affects academic instruction and the actual school facility is in poor condition.
- The use and condition of Horton, Gilbert, and Stewart Halls were common concerns.
- Student services in Old Main are inadequately organized and create circulation conflicts within the building.
- The University needs a records management and archives facility.
- Computer services in all areas need to be updated.
- Heiges Field House is used for many different types of events creating scheduling and use conflicts.
- Gathering areas for non-traditional students are insufficient.
- Franklin Science Center and Shippen Hall are in need of renovations.
- General campus maintenance items, such as heat control and interior lighting conditions, are inadequate.
- The exterior spaces have pedestrian/vehicle conflicts; too much asphalt; and a lack of grass, trees and people spaces.

Although, the above issues were repeated in various ways throughout the workshops, the entire list of issues as recorded should be given serious consideration. A complete list of issues as taken from the workshop sheets is on record at the Physical Plant Department.

## THE CAMPUS DATA

Collection of this information included mapping, field investigations, past master plans, reports on campus development, University demographics, traffic patterns, parking, utilities and space utilization, and data from community comprehensive planning.



# BACKGROUND AND SUPPORTING INFORMATION

## REGIONAL ZONING/LAND USE

Shippensburg University, located in Shippensburg Township, is surrounded by Shippensburg Borough, Southampton Township - Cumberland County and Southampton Township - Franklin County. The University adds significantly to the economic, social and cultural well being of these communities. It makes significant contributions in both tangible and intangible ways through financial support of local municipal services such as water and sewer, and the loaning of student and faculty expertise to community organizations and issues. The University wishes to be a good citizen and has established vehicles for cooperation such as the University/Community Advisory Committee to discuss issues of mutual concern. This section discusses the interrelationships of the University and these municipalities.

## SURROUNDING AREA ZONING

According to the Pennsylvania Municipalities Planning Code, municipalities can independently develop zoning ordinances that control the use and activity of land located in that municipality. It is because of this State law that zoning designations and descriptions for Shippensburg Township and Shippensburg Borough are not similar in definition or function.

The zoning designations and descriptions for Shippensburg Township and Shippensburg Borough are as follows;

### Shippensburg Township

- Single Family Residential - Single family detached dwellings and boarding or rooming houses containing no more than four occupants.
- Multi - Family Residential - Single family detached dwellings, municipal facilities, noncommercial residential, public and non-profit buildings, two family duplexes, multiple family dwellings not to include more than twelve families, and boarding or rooming houses containing no more than six occupants.
- Multiple Family Residential - Single family detached dwellings, semi detached dwellings, rowhouses, townhouses, quadruple houses, duplexes, double duplexes, garden apartments, apartment houses, and institution buildings.
- Manufacturing - Bus station, office, municipal facilities, wholesale business ,car sales, heavy construction, warehouse, trucking, trailer sales, manufacturing of small goods and instruments, and packaging.
- General Commercial - Retail, shopping center, bakery, dairy, confectionery shops, restaurant, bar, bus station, personal service shops, office, theater, municipal facilities, and hospitals.
- Agricultural - Farm and agricultural, municipal facilities, and woodland preserves.

### Shippensburg Borough

- Residential 3 - Single family detached dwellings, two, three or four family dwellings, and garden type dwellings not to exceed six units.



The wooded area along the northeast boundary of campus is zoned Multiple Family Residential.

- Residential 4 - All uses of Residential 3, two family detached dwellings, single family semi-detached dwellings, and boarding houses housing no more than ten people.
- Residential 5 - All uses of Residential 3 and multiple family dwellings not to include more than twenty-two families.
- Residential 7 - All uses of residential 3 and fraternity and sorority houses for actively enrolled students of a college or university.
- Heavy Manufacturing - Food processing facilities, tradesmen shops, machine shops, trucking facilities, assembly facilities, chemical processing facilities, forging facilities, and metal fabricating facilities.



The housing area along Prince Street directly adjacent to the University is zoned Residential 7.

- Commercial Business - All uses of residential 5, retail, and professional uses.
- Commercial Residential - All uses of residential 3, retail, and professional uses.
- Institutional - Schools, parks, churches, municipal facilities, hospitals, cemeteries, and libraries.

### Southampton Township - Cumberland County

- Southampton Township, Cumberland County does not currently have a zoning ordinance.

### Southampton Township - Franklin County

- Southampton Township, Franklin County does not currently have a zoning ordinance.

\* Zoning ordinances in their entirety are on file with the municipal clerks of Shippensburg Township and Shippensburg Borough.

# BACKGROUND AND SUPPORTING INFORMATION



## REGIONAL LAND USE / ZONING MAP

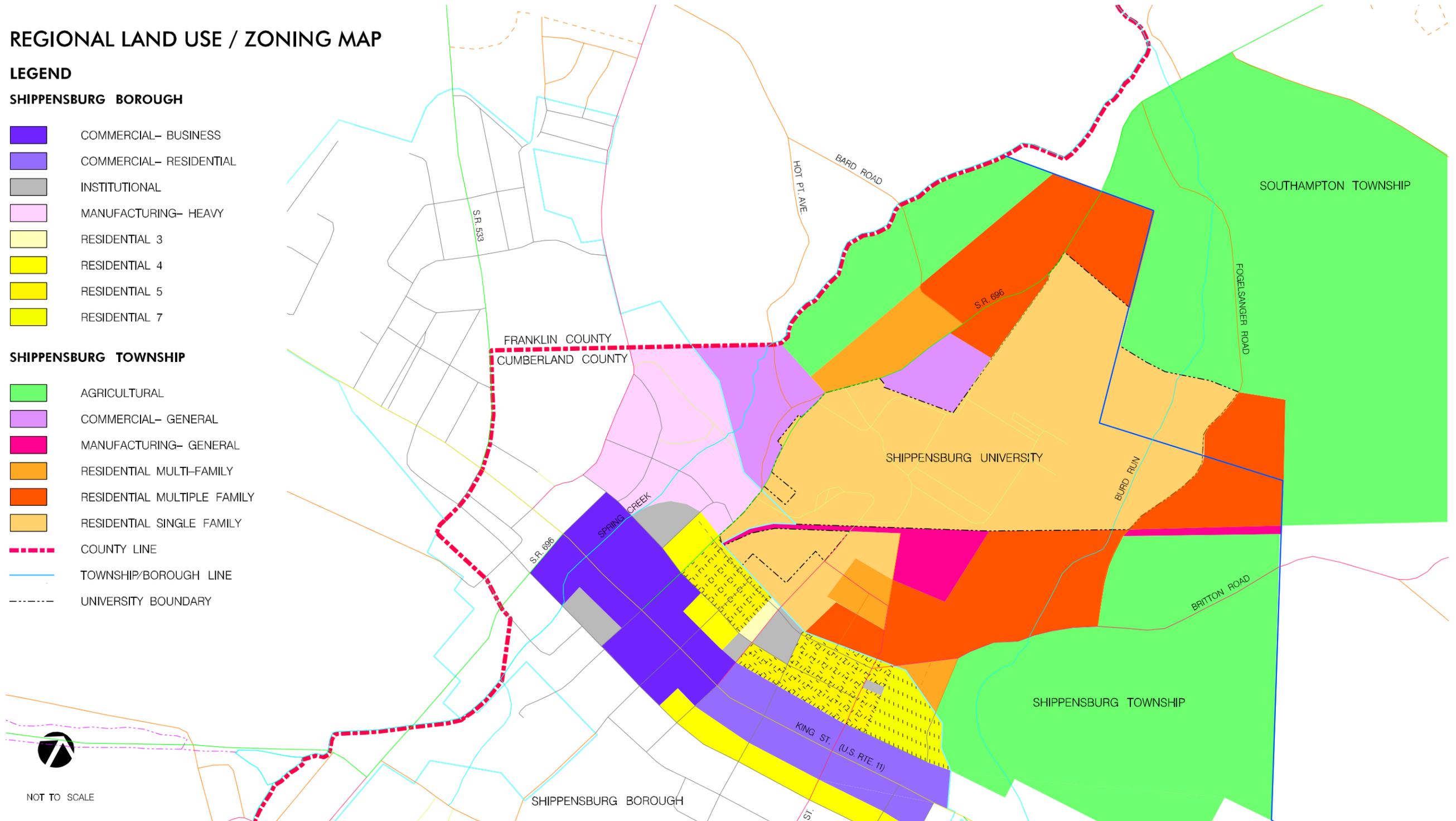
### LEGEND

#### SHIPPENSBURG BOROUGH

- COMMERCIAL- BUSINESS
- COMMERCIAL- RESIDENTIAL
- INSTITUTIONAL
- MANUFACTURING- HEAVY
- RESIDENTIAL 3
- RESIDENTIAL 4
- RESIDENTIAL 5
- RESIDENTIAL 7

#### SHIPPENSBURG TOWNSHIP

- AGRICULTURAL
- COMMERCIAL- GENERAL
- MANUFACTURING- GENERAL
- RESIDENTIAL MULTI-FAMILY
- RESIDENTIAL MULTIPLE FAMILY
- RESIDENTIAL SINGLE FAMILY
- COUNTY LINE
- TOWNSHIP/BOROUGH LINE
- UNIVERSITY BOUNDARY



NOT TO SCALE



# BACKGROUND AND SUPPORTING INFORMATION

## SURROUNDING AREA LAND USE

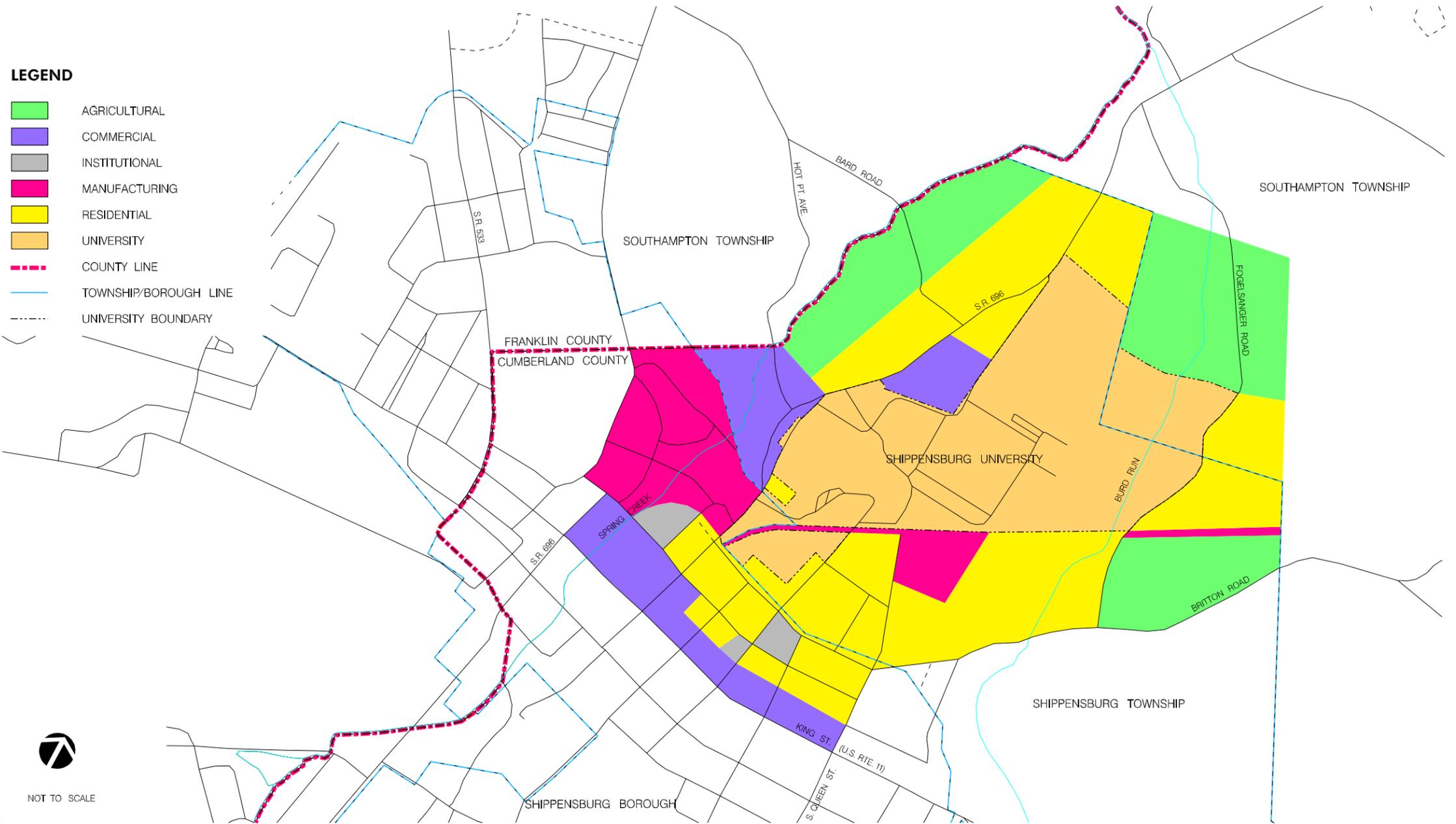
The land uses currently surrounding the University are residential, commercial, manufacturing, industrial, agricultural and institutional.



View of the agricultural lands located at the north



View of the residential development located adjacent the west boundary of the campus.



# BACKGROUND AND SUPPORTING INFORMATION



## UTILITIES

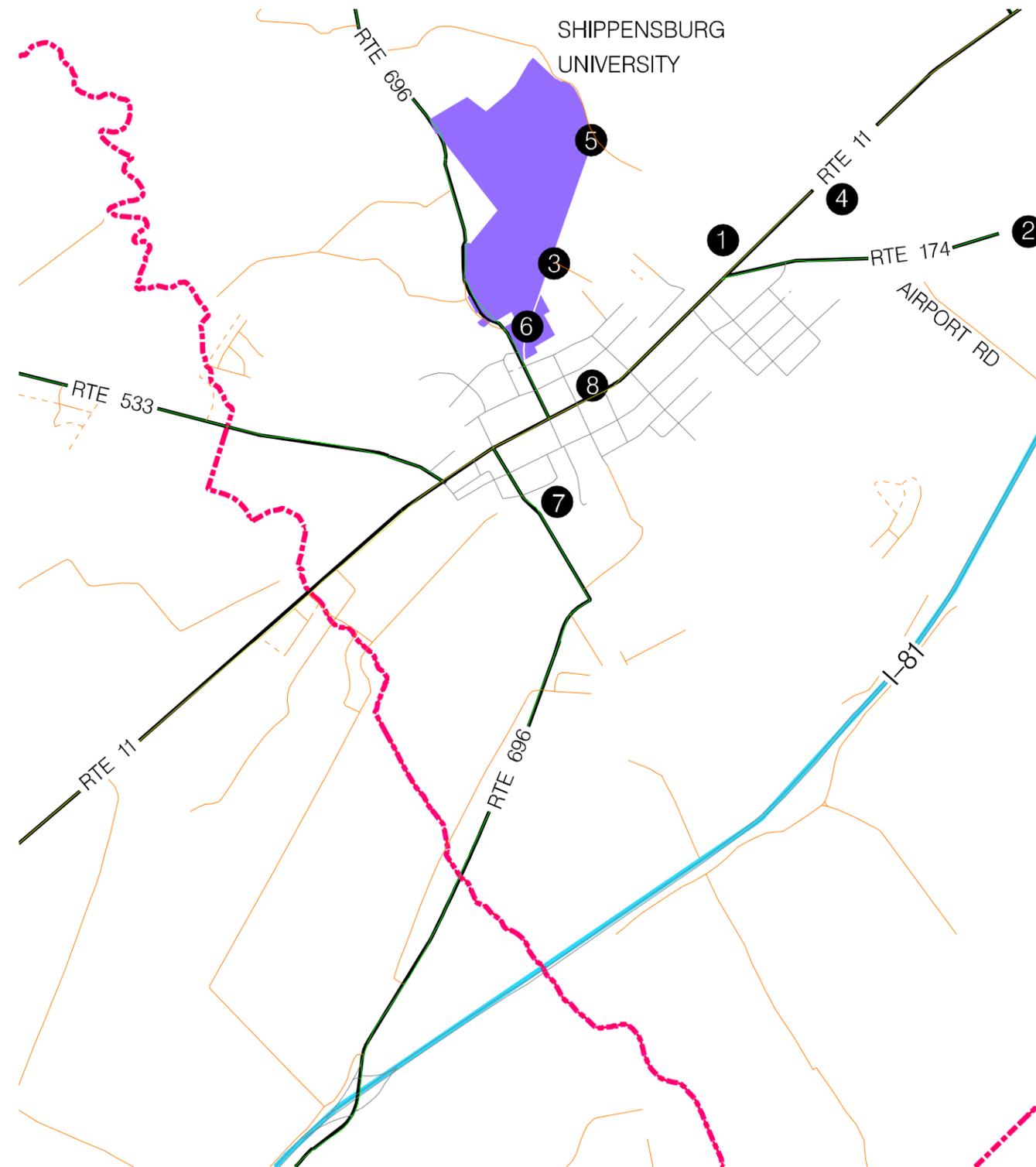
Utility companies serving the Shippensburg area are GPU, Penn Fuel Gas Company and the Shippensburg Borough Authority, which handles water and sewer services. GPU is not planning any major utility projects that will impact Shippensburg University or surrounding municipalities. However, the Shippensburg Borough Authority is planning to upgrade the waste water treatment plant. In addition, Penn Fuel Gas Company is planning a major upgrade of gas lines along Michaelsville Road into Fayette Street in anticipation of growth in the Shippensburg area. This upgrade will quadruple the capacity of the current gas line by increasing it from four inch diameter to eight inch diameter.

## TRANSPORTATION

The Pennsylvania Department of Transportation (PennDOT) and the Federal Highway Administration (FHWA) are not planning or programming any transportation projects in the foreseeable future that would affect Shippensburg University or the surrounding municipalities.

Although PennDOT is not currently planning new projects, the Shippensburg Area Chamber of Commerce has submitted recommendations, from the Chamber of Commerce's Shippensburg Area Transportation Study, to PennDOT for improving transportation in the area. The Chamber's study recommends the following projects:

- 1 The creation of a turning lane for S.R. 174 from Interstate 81 to U.S. Route 11 to accommodate future traffic volumes;
- 2 The widening of the S.R. 174 bridge over Interstate 81 to accommodate future traffic volumes;
- 3 The extension of North Queen Street to intersect with Adams Drive in order to provide a second access to the University from the downtown area. This will also provide a more direct access from Interstate 81;
- 4 The extension of Airport Road to the northwest to intersect with U.S. Route 11. This will provide University access while bypassing downtown congestion;
- 5 The extension of Adams Drive to Fogelsanger Road for an alternative access to the University;
- 6 The extension of Adams Drive to Earl Street to provide better access to Earl Street from the University;
- 7 The extension of Earl Street to Olde Scotland Road to provide direct travel along S.R. 696; and
- 8 The revision of the Shippensburg Borough Downtown roadway network to make King Street one-way westbound with Orange Street one-way eastbound.





# BACKGROUND AND SUPPORTING INFORMATION

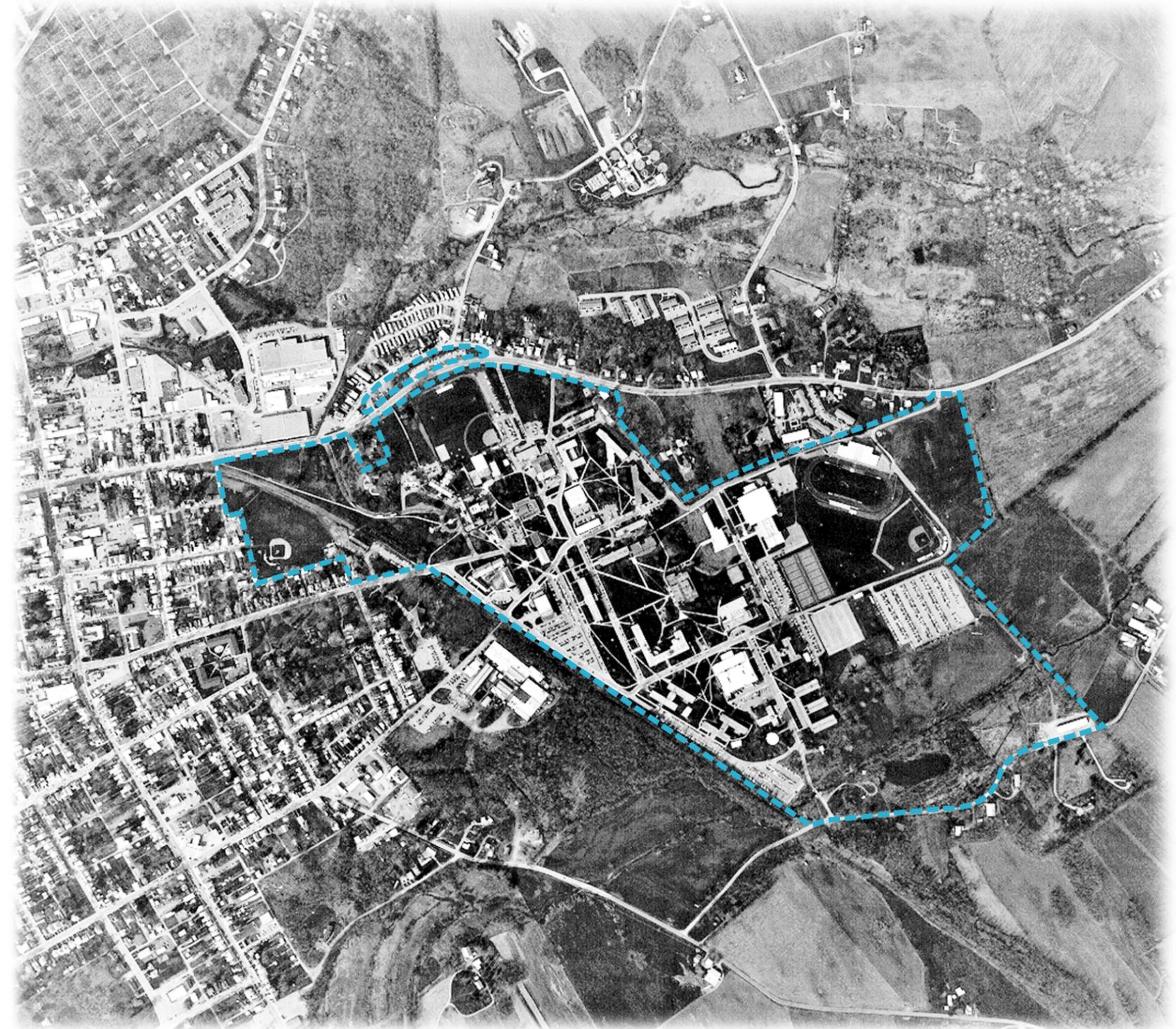
## CONTRIBUTION OF THE UNIVERSITY ON SURROUNDING MUNICIPALITIES

Shippensburg University has an overall positive effect on South Central Pennsylvania and its municipal neighbors by providing the following:

- Over 40 million dollars annually in the local economy through rentals, supplies, materials, and services;
- Over 2400 direct and indirect jobs generated by the University;
- Educational contributions, including the Lehman Memorial Library;
- Expertise of University faculty and staff for local groups;
- Faculty, staff, and student involvement in community organizations;
- Cultural activities;
- Athletic events;
- Staff support to the Chamber of Commerce;
- Financial support to the Police and Fire Departments; and
- Financial support to sewer and water services.

It is important to note that the University is a stable institution that is not affected by the current trends of corporate or government downsizing and outsourcing. The positive social and financial impacts of the University on the surrounding community will continue well into the next century.

The negative impact of the University on surrounding municipalities are transportation and circulation problems in the vicinity of the University and the encroachment of student housing and student lifestyles into residential areas. The increase in student housing in residential areas has led to the community perception that housing values in the area would decrease due to the influx of students from the University.



# BACKGROUND AND SUPPORTING INFORMATION

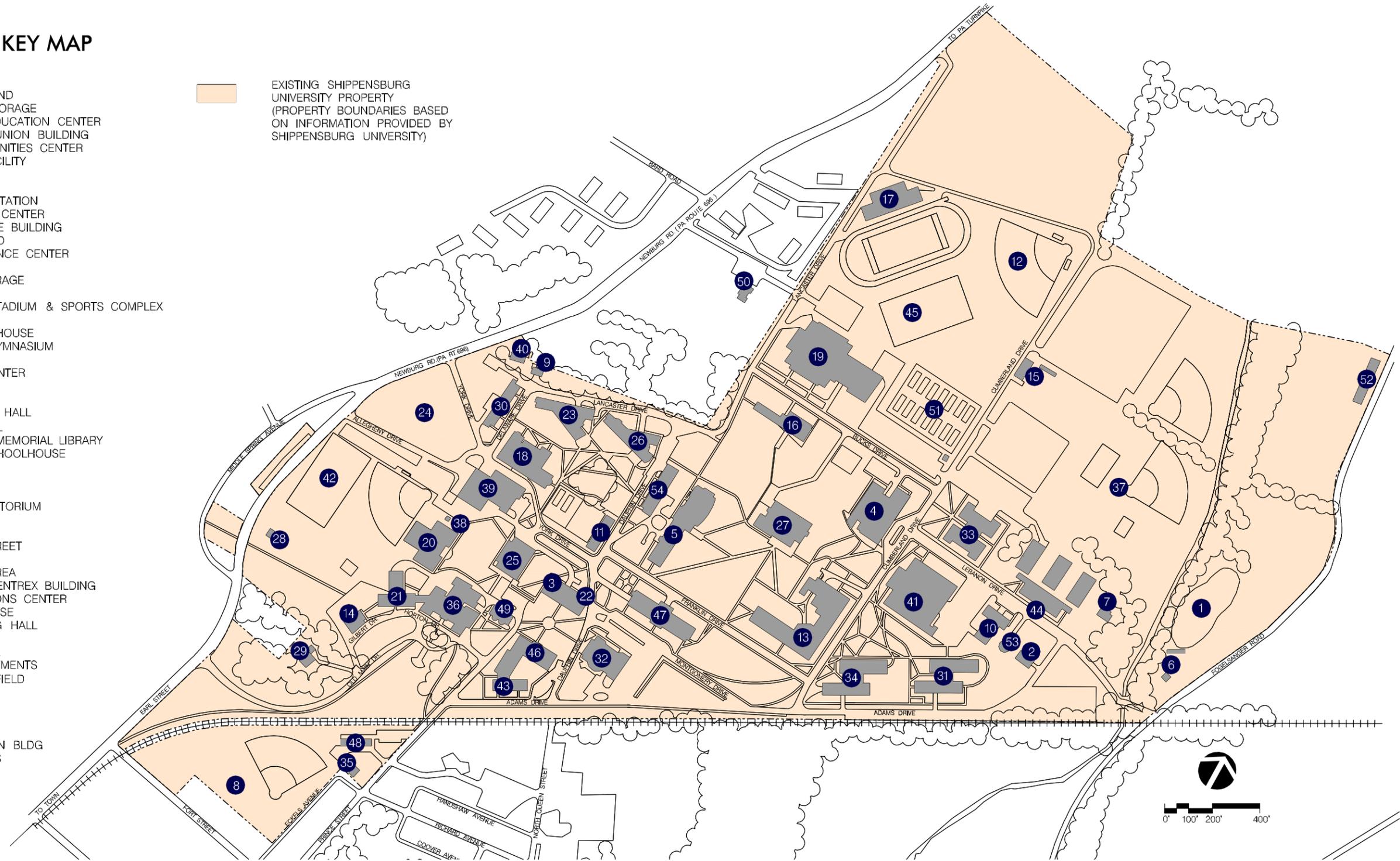


## BUILDING KEY MAP

### LEGEND

- 1 BIOLOGICAL POND
- 2 BOOKSTORE STORAGE
- 3 COUNSELOR EDUCATION CENTER
- 4 CUMBERLAND UNION BUILDING
- 5 DAUPHIN HUMANITIES CENTER
- 6 DERMESTID FACILITY
- 7 DGS BUILDING
- 8 ECKELS FIELD
- 9 ELECTRIC SUBSTATION
- 10 ETTER HEALTH CENTER
- 11 FACULTY OFFICE BUILDING
- 12 FAIRCHILD FIELD
- 13 FRANKLIN SCIENCE CENTER
- 14 GILBERT HALL
- 15 GROUNDS STORAGE
- 16 GROVE HALL
- 17 GROVE, SETH, STADIUM & SPORTS COMPLEX
- 18 HARLEY HALL
- 19 HEIGES FIELD HOUSE
- 20 HENDERSON GYMNASIUM
- 21 HORTON HALL
- 22 HUBER ART CENTER
- 23 KIEFFER HALL
- 24 KREISS FIELD
- 25 KRINER DINING HALL
- 26 LACKHOVE HALL
- 27 LEHMAN, EZRA, MEMORIAL LIBRARY
- 28 LITTLE RED SCHOOLHOUSE
- 29 MARTIN HOUSE
- 30 MCCUNE HALL
- 31 MCLEAN HALL
- 32 MEMORIAL AUDITORIUM
- 33 MOWREY HALL
- 34 NAUGLE HALL
- 35 300 PRINCE STREET
- 36 OLD MAIN
- 37 RECREATION AREA
- 38 REED ANNEX/CENTREX BUILDING
- 39 REED OPERATIONS CENTER
- 40 RIESINGER HOUSE
- 41 REISNER DINING HALL
- 42 ROBB FIELD
- 43 ROWLAND HALL
- 44 SEAVERS APARTMENTS
- 45 SEE, DAVID C., FIELD
- 46 SHEARER HALL
- 47 SHIPPEN HALL
- 48 STEAM PLANT
- 49 STEWART HALL
- 50 SU FOUNDATION BLDG
- 51 TENNIS COURTS
- 52 WAREHOUSE
- 53 WATER TOWER
- 54 WRIGHT HALL

 EXISTING SHIPPENSBURG UNIVERSITY PROPERTY  
(PROPERTY BOUNDARIES BASED ON INFORMATION PROVIDED BY SHIPPENSBURG UNIVERSITY)





# BACKGROUND AND SUPPORTING INFORMATION

## TOPOGRAPHY

Shippensburg University covers approximately 200 acres of gently rolling land. The campus gently slopes from the high point at Old Main northward towards the remaining portions of campus. The topography of the Campus does not place constraints on development.



*Gentle slopes stretch from Old Main (the highest point on campus) toward town.*



*Kieffer Hall is located on a high point of the campus.*

## FLOOD PLAIN

A 100-year flood plain is located along Burd Run Creek on the eastern portion of Campus. An additional flood plain is located off site, along Middle Spring Creek on the west side of Route 696. A 100 year-flood plain is designated by the Federal Emergency Management Agency and is defined as the part of a valley floor over which a river spreads during seasonal or short term floods at least once every 100 years. Buildings constructed on flood plains are subject to flooding and new development should be sited elsewhere if possible.

## AQUIFER RECHARGE AREAS

An aquifer recharge area is an area that transmits groundwater to the water table. Preliminary research of existing documents has not located any aquifer recharge areas on the University Campus; however, due to the limestone base that is prevalent on campus a geotechnical survey is needed to confirm this.



*The northeast section of the campus falls within the Burd Run Creek flood plain.*

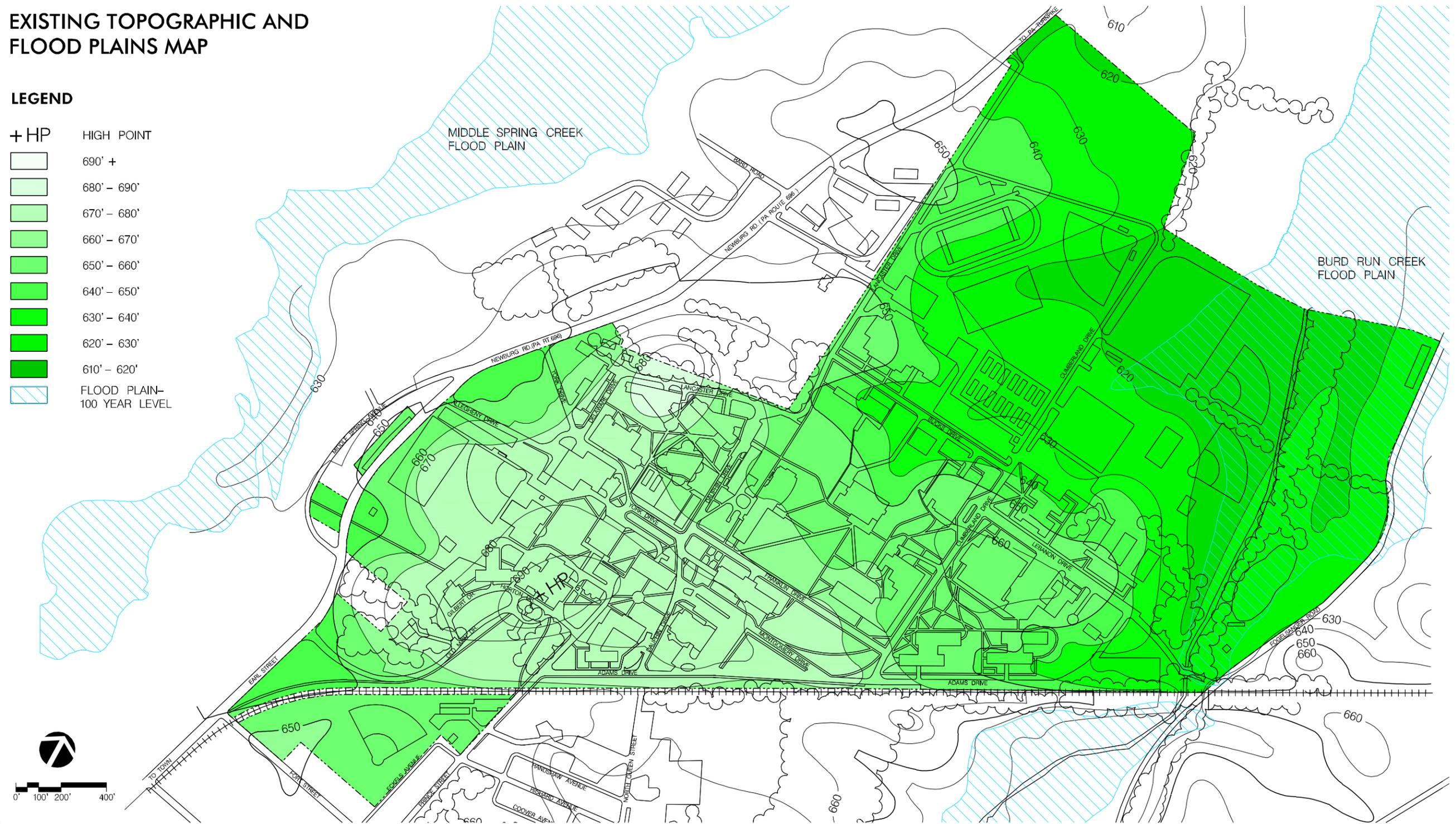
# BACKGROUND AND SUPPORTING INFORMATION



## EXISTING TOPOGRAPHIC AND FLOOD PLAINS MAP

### LEGEND

- + HP HIGH POINT
- 690' +
- 680' - 690'
- 670' - 680'
- 660' - 670'
- 650' - 660'
- 640' - 650'
- 630' - 640'
- 620' - 630'
- 610' - 620'
- FLOOD PLAIN-100 YEAR LEVEL





# BACKGROUND AND SUPPORTING INFORMATION

## SOILS

The soils map displays the soil types and slopes, as classified by the U.S. Department of Agriculture, Natural Resources Conservation Service. A majority of the Campus and surrounding area possess soils with some type of moderate or severe development constraints. The Natural Resources Conservation Service defines constraints as being:

- Slight - soil properties and site features that are generally favorable for the indicated use and limitations are minor and easily overcome;
- Moderate - soil properties and site features that are not favorable for the indicated use and special planning, design or maintenance are needed to overcome or minimize the limitations; and
- Severe - soil properties or site features that are so unfavorable or so difficult to overcome that special design, significant increases in construction costs and possibly increased maintenance are required. Special feasibility studies may be required where the soil limitations are severe.

Types of soil constraints include the potential for shrink swell, severe slopes, flooding, wetness and low strength. To overcome the soil constraints, the following actions are required to make a site suitable for development:

- Shrink Swell - Sealing off or complete removal of affected soils and construction of carton forms and deep foundations;
- Severe Slopes - Excessive excavation activities and the construction of retaining walls;
- Flooding / Wetness - Dewatering of the site and changing the hydraulics of the site; and
- Low Strength - Selection of foundations that optimize the site conditions i.e. stone columns, deep foundations.

The only soil types on the Shippensburg Campus that do not represent a development constraint is the Ub, Urban land and Udorthents soil type.

## WETLANDS

A wetland is defined as transitional lands between terrestrial and aquatic systems where the water table is usually at or near the surface or land is covered by shallow water. To be classified a wetland in Pennsylvania the following three attributes must be present: 1) sufficient water to saturate or cover the ground, 2) hydric soils, and 3) hydrophytic vegetation. The U.S. Department of Interior, Fish and Wildlife Service, National Wetland Inventory, has identified only one wetland on campus. This is located in the vicinity of the University's Biological Pond located between Burd Run Creek and Fogelsanger Road north of the Dermestid Facility. The National Wetland Inventory has classified this wetland as PUBHh (Paulustine System, Unconsolidated Bottom Class, that is permanently flooded, dyked or impounded).

This wetland is a constraint to development on the University Campus. To develop in the vicinity of the identified wetland, a survey would be required to determine the extent of the wetland. Avoidance of the wetland, if possible, or mitigation of impacts, would be required, as would Army Corps of Engineers and Pennsylvania Department of Environmental Protection permits (including required replacements).



Picnic area located near the Biological Pond.

# BACKGROUND AND SUPPORTING INFORMATION



## EXISTING SOILS MAP

### LEGEND

- DuB- Duffield silt loam, 3-8% slopes
- DuC- Duffield silt loam, 8-15% slopes
- HaA- Hagerstown silt loam, 0-3% slopes
- HcB- Hagerstown silt loam, 3-8% slopes
- HcC- Hagerstown-Rock silt loam, 8-15% slopes
- HdB- Hagerstown-Rock outcrop complex, 0-8% slopes
- HdD- Hagerstown-Rock outcrop complex, 8-25% slopes
- HuA- Huntington silt loam, 0-5% slopes
- Me- Melvin silt loam
- MnA- Monongahela silt loam, 0-3% slopes
- Pu- Purdy silt loam
- PUBHh- Flooded palustrine wetland
- Ub- Urban land and Udorthents





# BACKGROUND AND SUPPORTING INFORMATION

## EXISTING LAND USE / ZONING

Land use planning describes how Shippensburg University lives, works and plays on the land within the boundaries of the physical plant. Proper land use allows all of these things to happen with minimal or no conflicts or inefficiencies in operation.

Identifying land use patterns creates an understanding of how the physical plant functions. The components that create these patterns include ACADEMIC, ADMINISTRATIVE, ATHLETIC (sports and recreation), HOUSING (for both students, faculty, staff and administration), STUDENT SUPPORT (such as commons, unions, dining), CAMPUS SUPPORT (shops, yards, heating/cooling plants, power stations, storage, etc.), PARKING, PUBLIC USE (that used by persons not directly affiliated with the University), and GREEN SPACE (areas with no specific use, but remain green and sometimes natural). Each component includes the use of the structures, spaces and amenities within that component.

The pattern formed by these land use components helps to identify a functional relationship that can be evaluated in the existing land use plan and then adjusted as necessary to create a proposed land use plan that will support the needs of Shippensburg University.

### ACADEMIC

The current land use shows a strong academic component centered in the geographic campus. However, several locations not linked with the main academic core - Stewart, Gilbert and Horton areas and Henderson Gym area. The administrative component has been located to one side of the academic component and, although there is a separation of the major administrative areas, this separation is a

green space. Some concern has been expressed during workshop sessions that the administration is isolated from the academic component.



Dauphin Humanities Center is centrally located within the academic core.

### ATHLETIC

The athletic (sports and recreation) component is separated into three geographic areas of the campus, with the major core at the north end of campus. This major core relates well to housing and student support. The two remaining cores, however, are separated from the major core and appear to cause some logistic problems for locker rooms, maintenance, etc. These secondary cores might also better serve other land uses.



Heiges Field House is part of the main recreation core.

### STUDENT SUPPORT

Student support has several locations. The Cumberland Union is linked with the Reisner Dining Hall. These student support facilities are well located relative to housing, academics and athletics. The Kriner Dining building, is linked to the academic core and West Housing, but separated from athletics.



Reisner Dining Hall is well located in relationship to the East Residence Halls.

### HOUSING

Housing for students is positioned well with direct links to academics, green space, and athletics. The West Housing area does not have a strong relationship to dining facilities.



The courtyards and lawns around the housing areas provide excellent spaces to gather with friends.

### CAMPUS SUPPORT

The major campus support component is well located related to outside access and campus interior access. Its location, however, makes a focal point on entering the campus from the Route 696 gates.



View of Reed Operations Center upon entering campus from the State Route 696 (Newburg Road) entrance.

### PUBLIC

Several areas on the campus are used or visited by the public as well as the University. The Little Red School House is an example of a public use space.

### PARKING

Parking basically meets the ideal concept that is discussed in the Circulation Section (found on pages 36-37 of this report). However, several parking cores dominate areas more appropriate for other, higher level uses. These include Henderson Drive parking, and the Stewart and Faculty Office Building (FOB) lots.



The Stewart Parking Lot bisects the quad formed by the older campus buildings.

### GREEN SPACE

The current green space serves as a buffer to the adjacent communities in many cases. The exception is along the southeast, adjacent to the old railroad bed. Although this is currently a green strip, it is not controlled by University ownership. Consideration may be given to a "greenway" corridor or corridors throughout the campus linking or buffering other land use components as necessary.

Effective land use planning positively impacts the business of education, the economics of maintaining that business, and the social equity of a diverse academic community.

The proposed land use plan will not only address the existing uses within the University boundaries, but will also address the existing and planned land uses in adjacent Shippensburg Township, Shippensburg Borough and Cumberland County.

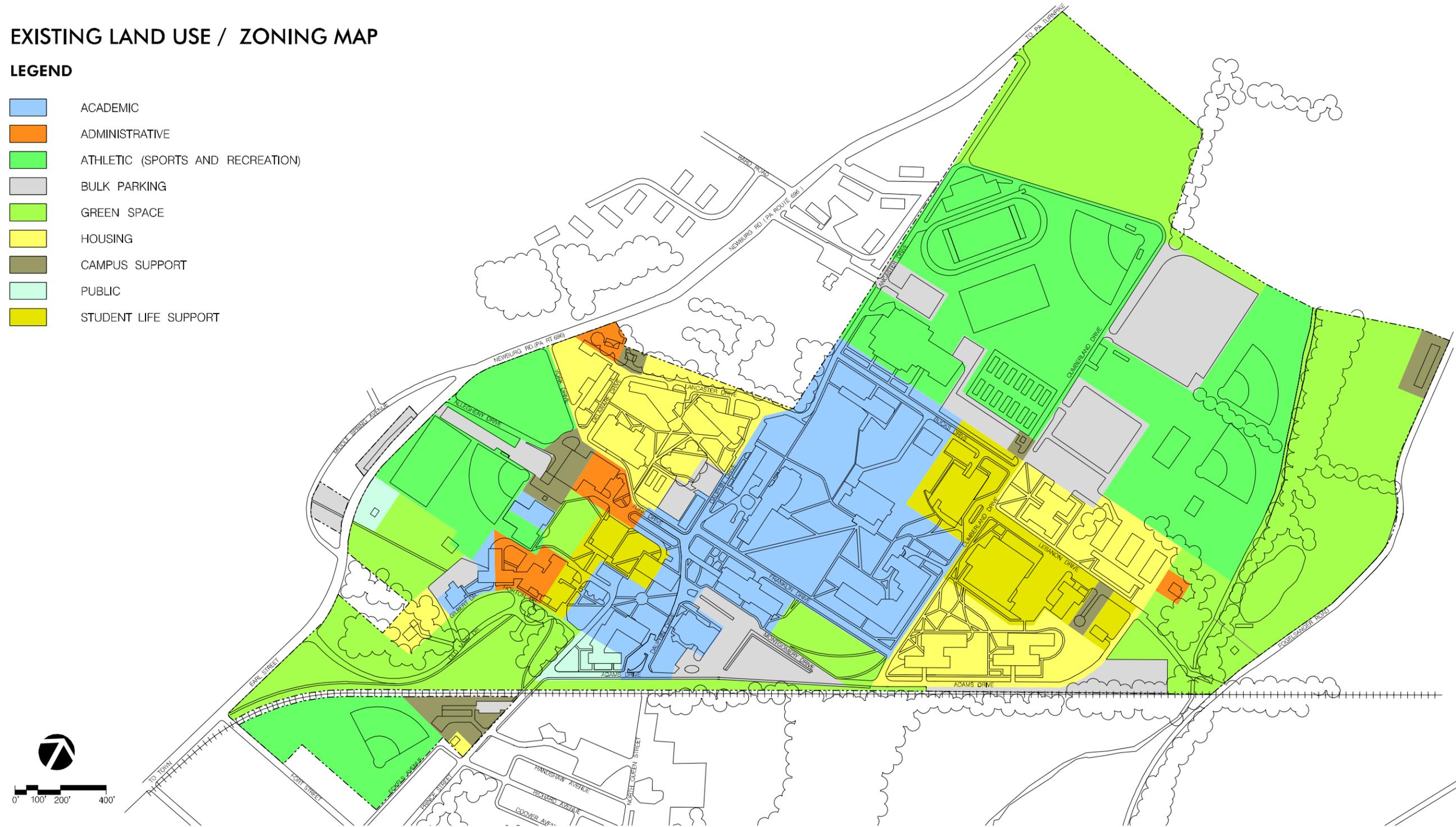
# BACKGROUND AND SUPPORTING INFORMATION



## EXISTING LAND USE / ZONING MAP

### LEGEND

- ACADEMIC
- ADMINISTRATIVE
- ATHLETIC (SPORTS AND RECREATION)
- BULK PARKING
- GREEN SPACE
- HOUSING
- CAMPUS SUPPORT
- PUBLIC
- STUDENT LIFE SUPPORT





# BACKGROUND AND SUPPORTING INFORMATION

## VISUAL QUALITY

The Shippensburg University Campus is in a rural setting in southcentral Pennsylvania within the Cumberland Valley. The University's 200 acres is situated northeast of the Shippensburg Borough, commonly called the Town of Shippensburg, in Shippensburg Township, Cumberland County. The campus panoramic view includes the Blue Ridge Mountains.

The primary gateways (each defined with an entrance sign identifying Shippensburg University) to the campus are:

- From the north, a double gateway along State Route 696 (Newburg Road);
- From the south, a gateway along State Route 696 (Earl Street); and
- Also from the south, a gateway is formed where Prince Street enters campus.



View from the intersection of State Route 696 (Earl Street) and Old Main Drive.

The highest elevation on campus (700 feet) is marked by the University's most notable landmark - Old Main. The landmarks on any campus are those features, buildings, spaces, sculptures, etc. that have become a university identification. Other landmarks within the Shippensburg University Campus include the following: Stewart Hall, Horton Hall, Gilbert Hall, Martin House (President's Residence), the entire "arc" of buildings on the hill, Little Red School House, Ezra Lehman Memorial Library, Cumberland Union, Seth Grove Stadium and the water tower.



Campus landmarks - The Little Red School House with Gilbert and Horton Halls in the background.

A number of places on the campus warrant recognition for their esthetic image, either as they exist or with potential improvements. The four principal places are:

- The lawn and buildings within the arc extending from Earl Street to Old Main with its views and vistas.
- The Hill Quad formed by Henderson Gymnasium to the west and Memorial Auditorium to the east, Old Main, Stewart Hall, Shearer Hall to the south and Kriner Dining Hall, and Huber Art Center to the north. A major east-west axis exists from Memorial Auditorium to Henderson and a minor north-south axis existing from Huber to Shearer.

- The newer or "modern" quad as formed by Shippen Hall and Franklin Drive to the south, Ezra Lehman Memorial Library and the new classroom and business building to the north, Dauphin Humanities Center and its new addition to the west and the west face of Lehman Library and west wing of Franklin Science Center. There are two defined axes within this place, one from the Dauphin/Shippen corner to the Lehman Library entrance and a second from Montgomery Drive to the Lehman Library entrance.



There is a strong physical and visual axis from the Ezra Lehman Memorial Library to the south end of the "modern" quad.



There is a strong physical and visual axis from the Ezra Lehman Memorial Library to the Cumberland Union Building.

- The Cumberland Union Quad is formed by the south facade (newer entrance) of the Cumberland Union Building to the north, and east facade of Lehman Library to the west, Reisner Dining Hall to the east and Franklin Science Center to the south. The axis in this place is from the Library Plaza to the new entrance of Cumberland Union.

Seven secondary places can be identified:

- The lawn area from Route 696 to the parking area behind Gilbert Hall and this includes the Little Red Schoolhouse.
- The lawn area from Route 696 to the drive at Reed Operations between York Drive and Allegheny Drive.
- The courtyard formed by Kieffer, Lackhove and Harley Halls, bordered on the east by Dauphin Drive.
- The lawn area to the east of Shippen Hall bordered by Franklin Drive and Montgomery Drive.
- The courtyard within the Franklin Science Center.
- The courtyard formed by Reisner Dining Hall, Cumberland Drive, Naugle and McLean Halls.
- The lower north facing courtyard at Seavers Apartments.

There are several locations on the campus which provide great views of the surrounding areas:

- There is a grand view of the Blue Ridge Mountain Range from the high point on Cumberland Drive. This view is most exciting just outside the old entrance to Cumberland Union.
- The fountain court in front of Old Main offers a view of the Town of Shippensburg.



There is a good view of the Blue Ridge Mountains from the Cumberland Union Building.

The southern boundary along the old railroad bed is strongly defined because of existing vegetation. The northern boundary along Lancaster Drive is strongly defined by a fence and vegetation. The eastern boundary is visually defined by Burd Run Creek and associated vegetation, however, the actual property boundary extends beyond this area to Fogelsanger Road.

As the planning process continues, each of these characteristics will be evaluated as individual assets as well as their relationship to the other characteristics.

# BACKGROUND AND SUPPORTING INFORMATION



## EXISTING VISUAL QUALITY MAP

### LEGEND

- PRINCIPAL PLACES
- SECONDARY PLACES
- SIGNIFICANT FOREST
- L LANDMARKS
- GATEWAYS
- STRONG BOUNDARIES
- VIEWS





# BACKGROUND AND SUPPORTING INFORMATION

## SITE DEVELOPMENT OPPORTUNITIES AND CONSTRAINTS



**1** The open spaces along Old Main Drive provide a dignified gateway to the University and the area should be maintained.



**2** Henderson Gym, Memorial Auditorium, Huber Art Center and Shearer Hall form a quadrangle whose central space serves as a link between the old and new campus areas.



**3** The new campus quadrangle bounded by Bucks, Cumberland, Franklin and Dauphin Drives is an important open space. The addition of the new classroom building on the northern edge joins the existing buildings in providing vertical definition for this area.



**4** The north east boundary of the University would be the most difficult to develop. The area falls within the Burd Run Creek flood plain and Biological Pond wetland zone. Aesthetically, the natural condition of the area is unique and valuable to the campus and should be maintained.



**5** The open area south of the old railroad bed is suitable for development, especially for uses that would benefit from its proximity to town.



**8** Additional development on the northwest corner of this quad would enhance the area by better defining the open space.



**6** Areas just east of Newburg Road including Kreiss Field and the field north of the stadium offer favorable conditions for high visibility development and campus identity.



**7** The open area and parking around Montgomery Drive can be developed. However, when developing this area, consideration should be given to what the terminating point is for the strong axis between this area and the library.



**9** The land near the end of Adams Drive can be considered for development.



**10** The land along Cumberland Drive offers an appropriate and cost effective alternative for development.

**11** These developed areas can be further developed through infilling with building additions and small structures. When developing these areas, careful consideration should be given to insure the character of the new construction complements the existing site character.

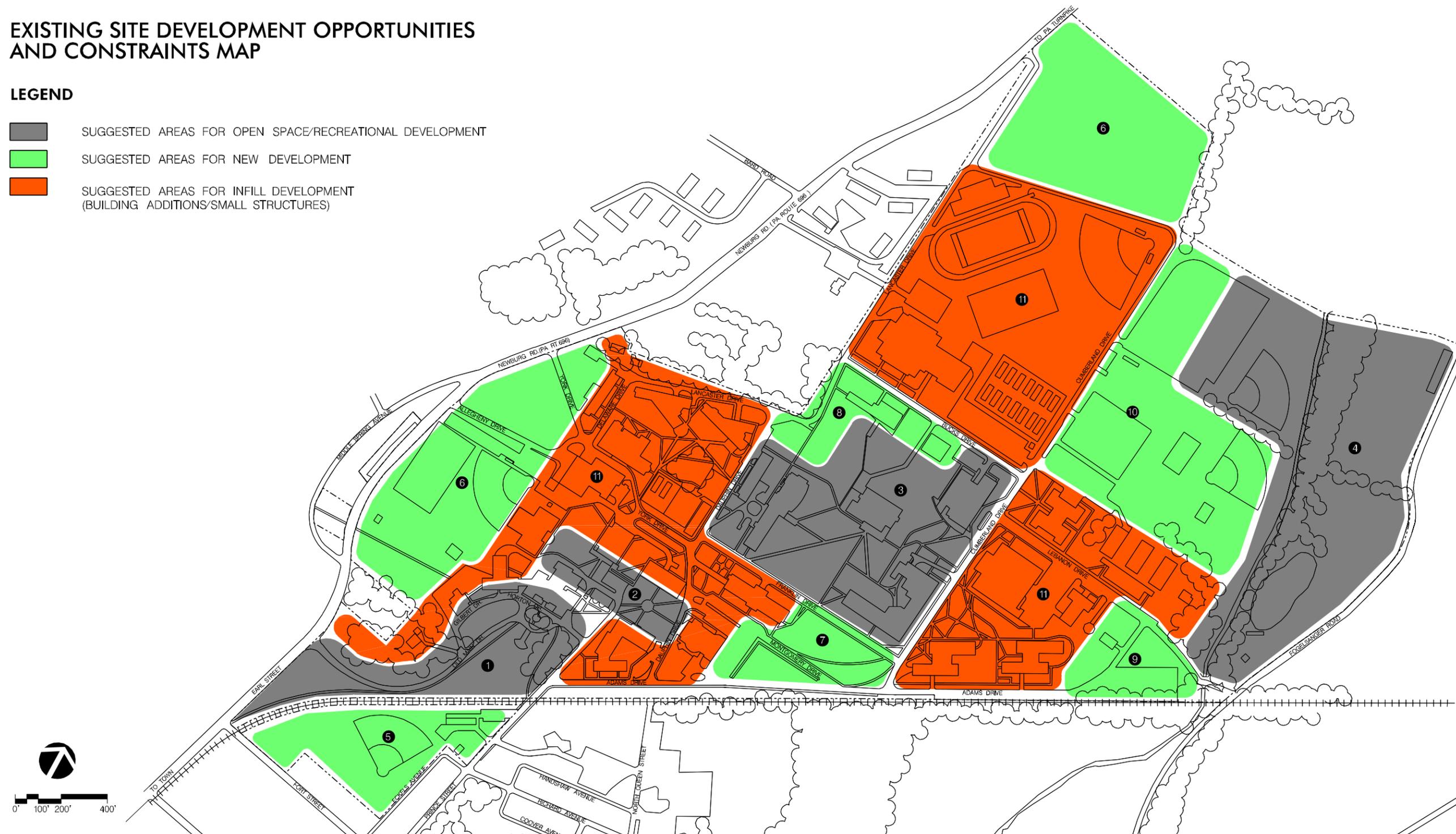
# BACKGROUND AND SUPPORTING INFORMATION



## EXISTING SITE DEVELOPMENT OPPORTUNITIES AND CONSTRAINTS MAP

### LEGEND

-  SUGGESTED AREAS FOR OPEN SPACE/RECREATIONAL DEVELOPMENT
-  SUGGESTED AREAS FOR NEW DEVELOPMENT
-  SUGGESTED AREAS FOR INFILL DEVELOPMENT (BUILDING ADDITIONS/SMALL STRUCTURES)





# BACKGROUND AND SUPPORTING INFORMATION

## EXISTING CIRCULATION

The circulation system includes pedestrian and vehicular routes. This system serves students (both residents and commuters), staff, faculty, administrators, and visitors. The circulation system also includes service to the University.

The circulation system of the Shippensburg Campus should function with minimal conflict between pedestrians and vehicles. Such conflicts affect the safety, time, and the psychological attitude of any of its users. The ideal campus vehicular circulation system is a perimeter loop around the main campus. Parking should be located off of this loop along the perimeter as well. The pedestrian circulation then links the parking to the facility destination within the "core" of the campus. Minor vehicle circulation into the "core" is necessary for service, disability access, safety and visitors.

The design of roadways, parking lots, walkways and lighting are based on this "loop/core" concept.

A bikeway circulation system then becomes an overlay on the vehicle/pedestrian system. The bikeway may use the vehicle pattern, but will be separated from the pedestrian pattern. Bike parking should be planned for convenience to destination.

The existing circulation map shows the beginnings of the loop concept. There are four major vehicular access points (gateways) to the campus - York Drive, Allegheny Drive, Old Main Drive and North Prince Street. Controlled access points are located at the Shippensburg Foundation, behind Seth Grove Stadium and at the Fogelsanger Road and

Lebanon Drive intersection. The York Drive and Allegheny Drive gateways, although signed, lack a proper identity as an entrance to the campus.



*This entrance serves as a major pedestrian link between the town and campus.*

The exceptions to the major loop system include Dauphin/York Drive which bisects the campus, Franklin Drive which divides the academic land use component, and Cumberland Drive, separating the housing, student life support and academic land use areas.



*Franklin Drive bisects the academic land use components.*

Parking behind Old Main and Stewart Hall creates conflicts between vehicles and pedestrians. Parking adjacent to the Faculty Office Building (FOB lot) also creates conflicts as well as using key open space at the center of campus. The various current internal parking places and building service needs generate traffic that creates pedestrian/vehicle conflicts.



*The FOB Parking Lot is located on key open space at the center of campus.*

There appears to be adequate total parking spaces, but they are not distributed based on need. Further evaluation of actual counts of spaces and need based on tested statistics for similar universities will be available in Stage 3 of the planning process.

The pedestrian circulation, as mapped, does not always illustrate formal walk systems. In some cases, formal walk systems are not used as actual circulation.

Currently there is no planned bikeway system throughout the campus.

A proposed circulation system can only be properly planned after there is an understanding of the existing circulation system and its relationship to the Land Use Plan and other issues within the campus.



*In many locations, pedestrian walks are undersized for the amount traffic they carry.*

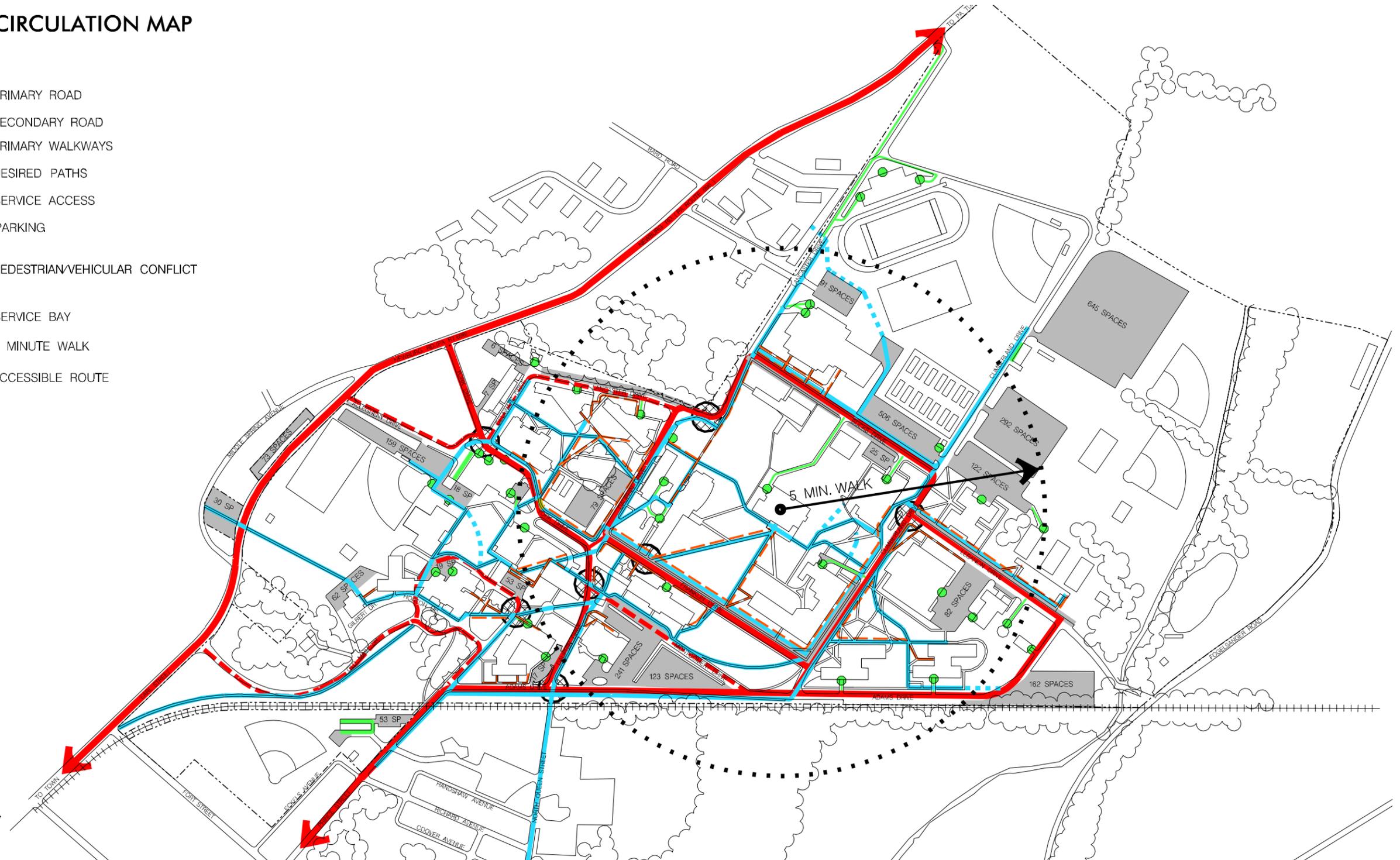
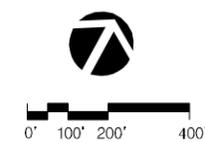
# BACKGROUND AND SUPPORTING INFORMATION



## EXISTING CIRCULATION MAP

### LEGEND

- PRIMARY ROAD
- - - SECONDARY ROAD
- PRIMARY WALKWAYS
- - - DESIRED PATHS
- SERVICE ACCESS
- PARKING
- PEDESTRIAN/VEHICULAR CONFLICT
- SERVICE BAY
- 5 MINUTE WALK
- - - ACCESSIBLE ROUTE





# BACKGROUND AND SUPPORTING INFORMATION

## BUILDING CONDITION AND FUNCTION

The State System of Higher Education maintains a system-wide Facilities Inventory Database in a Model 204 database system at West Chester University accessible to any user on the internet. This system is a comprehensive, reliable, and up-to-date facilities inventory which has been programmed to produce the state-mandated facilities reports. The inventory information is used annually for estimating allocation of budgeted appropriations and for programming capital facilities projects. Reports are described as follows:

**SSHE Inventory Reports:** The reports are broken down in Education and General (E&G) Space, Auxiliary Space, Off-Line E&G Space, Off-Line Auxiliary Space, Leased E&G Space, Leased Auxiliary Space, Other Space, Summary Report, and Final Inventory Report.

**SSHE Space Guidelines Reports:** These reports are designed to inform the user how much space a university currently has in each room use category code. It also computes a guideline for how much space the university should have in each category and gives an excess or shortfall figure. Finally, it includes a capital amount that has been appropriated for each category for that fiscal year. Data in the Space Guidelines Reports are computed by a set of formulas that are specific to each category. The formulas are in accordance with the SSHE Capital Facilities Planning and Programming Criteria by Category — Assignable Space.

**Query and Customized Reports:** The user is required to stipulate what criteria to include in the report. The criteria include twelve different options. These range from selection of the university to landmark status of the buildings.

Each State System institution is responsible for the preparation and maintenance of its respective inventory data. Only the current fiscal year is updatable. The General Building Data and the Building Category Data may be updated prior to May 1st of the current year. The Full-time Equivalent Data may be updated prior to July 1st of the current year. Inventory data are entered and are accessible to inventory users for each campus facility as follows:

**General Building Data:** Data elements supply the user with information about a selected facility, such as building type, function, condition, type of construction, disabled access, year of acquisition and cost, year of last renovation and cost, etc.

**Building/Category Data:** The space in square feet for each building is broken down by standard category codes and sorted by whether assignable or non-assignable square feet. Assignable square feet is further sorted by funding source: education and general or auxiliary.

**Full-time Equivalent Statistics:** These data elements show information pertaining to faculty, staffing, and students which are used in formulas to determine space guidelines by category of space.

### BUILDING CONDITION MAP

#### LEGEND

	CONDITION CODE 1
	CONDITION CODE 2
	CONDITION CODE 3
	CONDITION CODE 4
	CONDITION CODE 5
	CONDITION CODE 6



- Condition Code 1 Satisfactory:** Suitable for continued use with normal maintenance.
- Condition Code 2 Remodeling - A:** Requires restoration to present acceptable standards without major room use changes, alterations or modernization. Last restoration to acceptable standards was 12 to 17 years.
- Condition Code 3 Remodeling - B:** Requires major updating or modernization of the building. Last major updating or modernization was 18 to 34 years.
- Condition Code 4 Remodeling - C:** Requires major remodeling of the building. Last major remodeling was greater than 34 years.
- Condition Code 5 Demolition:** Should be demolished or abandoned because the building is unsafe, structurally unsound, or not cost effective to remodel.
- Condition Code 6 Termination:** Planned termination or relinquishment of occupancy for reasons other than unsafeness or structural unsoundness, such as abandonment of temporary units or vacating of leased space.

Reference: SSHE Facilities Manual, Supplement #5

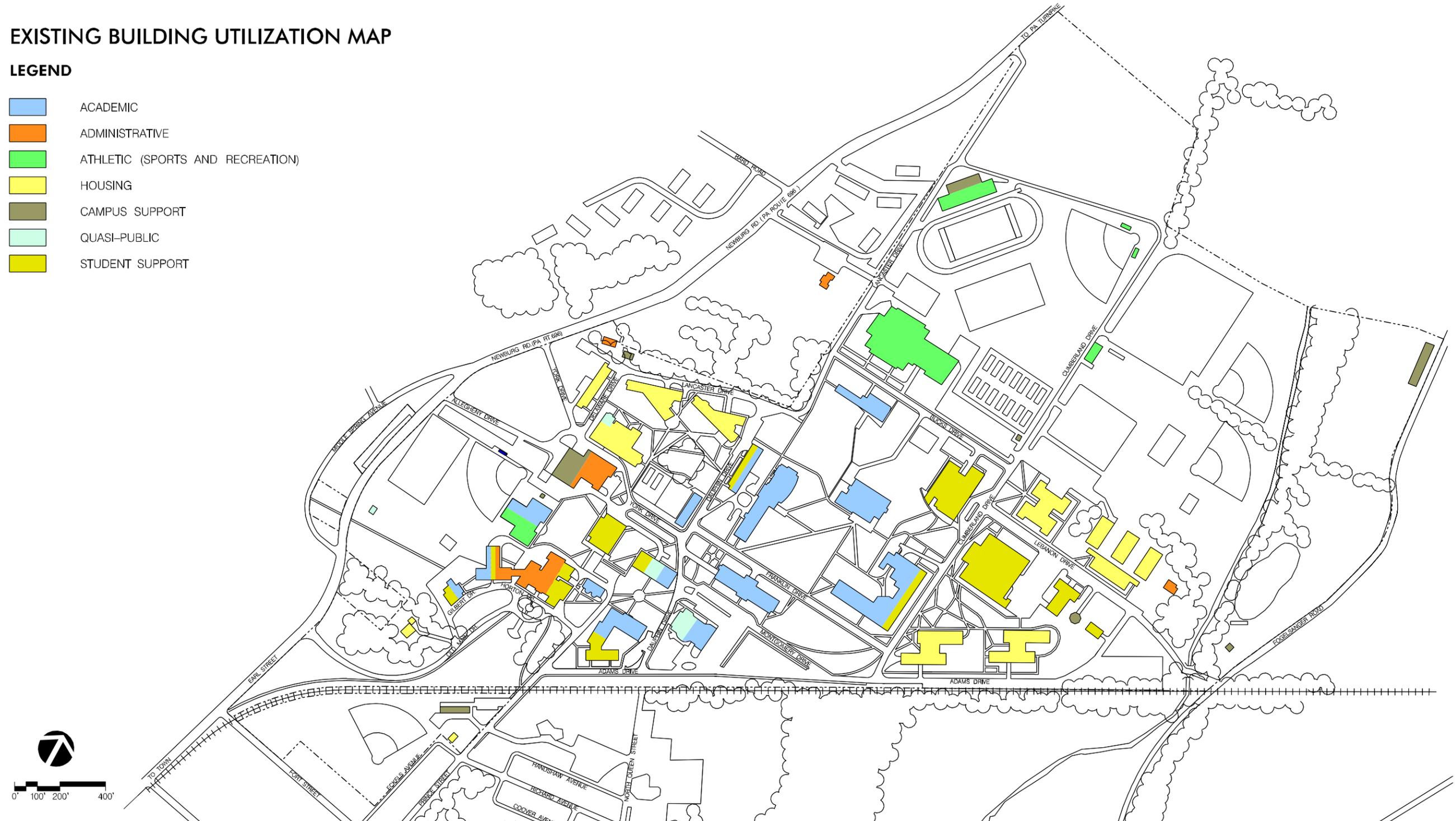
# BACKGROUND AND SUPPORTING INFORMATION



## EXISTING BUILDING UTILIZATION MAP

### LEGEND

-  ACADEMIC
-  ADMINISTRATIVE
-  ATHLETIC (SPORTS AND RECREATION)
-  HOUSING
-  CAMPUS SUPPORT
-  QUASI-PUBLIC
-  STUDENT SUPPORT





# BACKGROUND AND SUPPORTING INFORMATION



## WATER SYSTEM

The Shippensburg Borough Authority provides potable water to the campus. The campus piping system is a combination of ductile iron and cast iron pipes. Portions of the system have been upgraded in recent years, through construction and renovation projects. The University operates and maintains the campus water lines.

A one million gallon water tower was constructed in 1986 to maintain water pressure for fire protection purposes. Water pressure in the main line is approximately 55 pounds per square inch (psi), and is adequate for both domestic water and fire protection needs. Valves and fire hydrants are regularly tested, and the system is flushed annually.

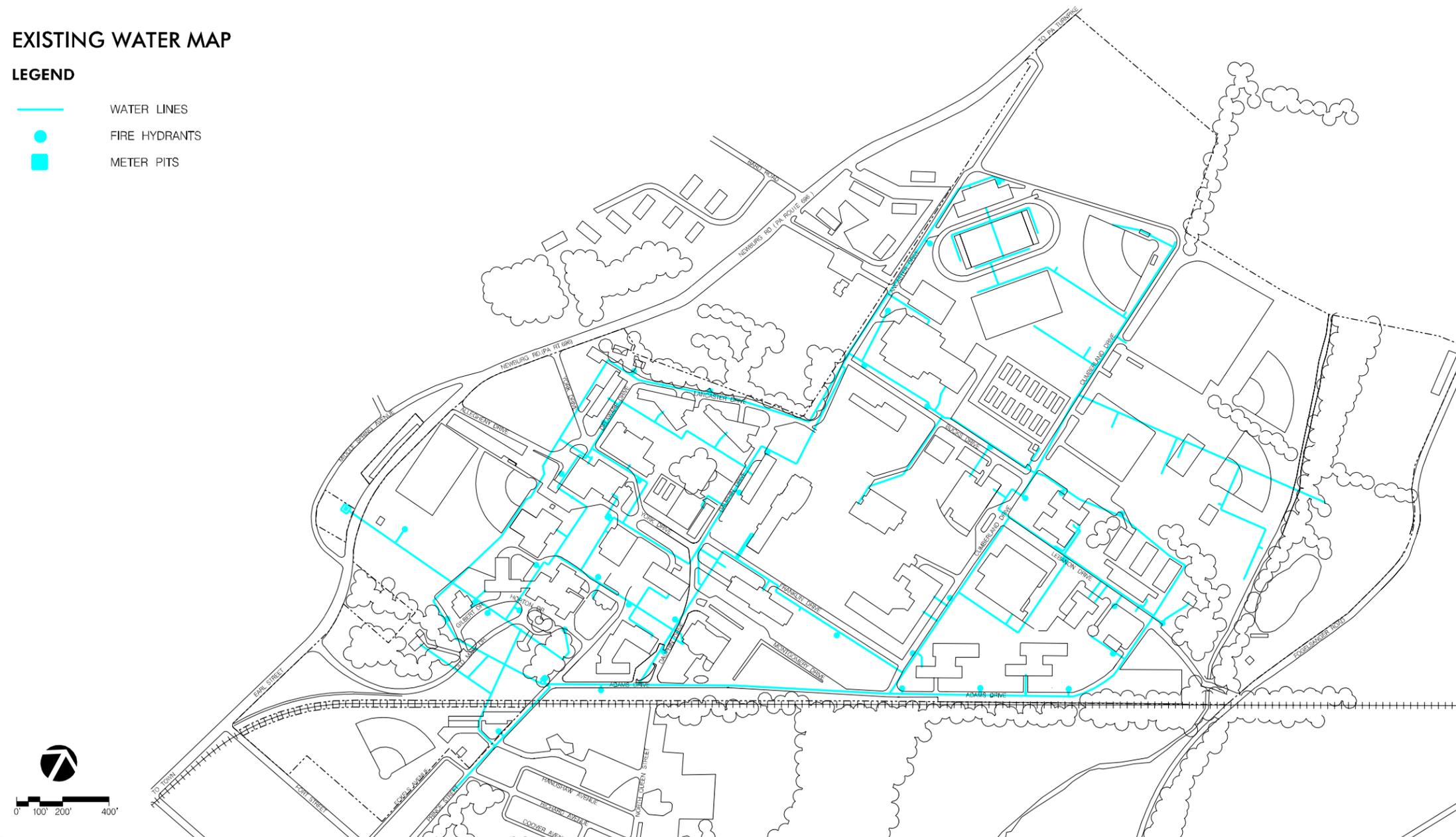


The University's water needs are served with this one million gallon water tower and two off campus water wells and surface reservoirs.

### EXISTING WATER MAP

#### LEGEND

-  WATER LINES
-  FIRE HYDRANTS
-  METER PITS





# BACKGROUND AND SUPPORTING INFORMATION

## STORM DRAINAGE SYSTEM

The University's storm water runoff is drained into two major watersheds. One water shed flows to the west into the Shippensburg Borough Authority's system, and the other flows to the northeast into Burd Creek. All storm drainage structures and pipes located on campus are operated and maintained by the University. The drainage system collects storm water runoff through various pipes of different sizes made of reinforced concrete, corrugated metal, corrugated plastic, and vitrified clay (terra cotta). In addition, several storm water retention basins have been recently built to store water runoff.



This grate is one of many that collect run-off and routes it to collection areas on the east and west sides of campus.

### STORM DRAINAGE SYSTEM MAP

#### LEGEND

-  STORM LINES
-  STORM MAN-HOLES
-  CATCH BASINS



# BACKGROUND AND SUPPORTING INFORMATION



## SANITARY SEWER SYSTEM

The Shippensburg Borough Authority provides sanitary sewer services to the university. The campus system is operated and maintained by the university. It consists of a network of pipes of different sizes made of steel, plastic, and clay lines, manholes, and pumping stations. Approximately half of the campus sanitary sewer is drained by gravity (via a single ten inch steel outflow main) to the Borough's sixteen inch main collection line located west of State Route 696. The other half is pumped via pumping stations to the ten inch main.

### SANITARY SEWER SYSTEM MAP

#### LEGEND

- SEWER LINES
- SEWER MANHOLES





# BACKGROUND AND SUPPORTING INFORMATION

## STEAM SYSTEM

The steam distribution system includes eight and ten inch lines which run from the steam plant on Prince Street to the various facilities on campus. The University has recently replaced the steam valves and traps, along with a portion of the condensate lines and manholes. Further replacement of steam lines and condensate lines will be necessary.



Steam lines run from this plant to campus.

### STEAM SYSTEM MAP

#### LEGEND

- STEAM LINES
- STEAM MANHOLES







# BACKGROUND AND SUPPORTING INFORMATION

## ELECTRICAL SYSTEM

Electricity is provided to Shippensburg University by GPU Energy via a 23 (kilovolt) system. The lines on campus are in good condition, and the facilities are fed from the substation (23 KV) located on Lancaster Avenue built in the summer of 1996. Incoming power lines are serviced and maintained by GPU Energy.

The new substation has one transformer and a capacity of 4.0/4.8/5.6 MVA. The university operates and maintains the substation and the 12,470 volt (12 KV) electrical system that serves the campus. The electrical system is made up of 4 feeder lines (#1201, #1202, #1203, and #1204) configured in a branched layout. Because of this type of layout, power outages in one feeder line cannot be supplemented by the other feeder lines. However, there is a possibility to remedy that deficiency by tying all feeder lines at the electrical manhole #4.

Each feeder line is a concrete encased underground line. With the exception of feeder line #1201 which was replaced in 1996, all other feeder lines are between 20 and 30 years old. It is planned that the feeder line #1204 will provide service to the new instructional art facility.

### ELECTRICAL SYSTEM MAP

#### LEGEND

-  ELECTRIC LINES
-  ELECTRIC MANHOLES



# BACKGROUND AND SUPPORTING INFORMATION



## TECHNOLOGICAL INFRASTRUCTURE

The University has approximately 2900 telephone lines. The local business telephone service is provided by the Sprint United Telephone Company. Long distance service for administrative use is provided by PANET, the long distance service for Commonwealth institutions. Long distance service for student use is provided by Sprint and MCI. The campus buildings are connected, via copper, to the Shippensburg Borough office of Sprint United Telephone.

The University runs on a PABX voice telephone system. This eight year old system which supports digital telephones in academic buildings and analog telephones in residence halls.

The University currently operates on an Ethernet 10 BaseT network. The network is based on a fiber optic backbone that runs to all academic buildings. The cables that run between the academic buildings are divided into strands. Each building's cables have 6, 12 or 24 strands, with the new academic building having 72 strands. The University has a mixture of both ethernet and coaxial cabling on campus. Inside the buildings the network uses coaxial cables between floors. On each floor, the coaxial cables are connected to ethernet hubs which then disperse to RJ45 jacks (10 BaseT).

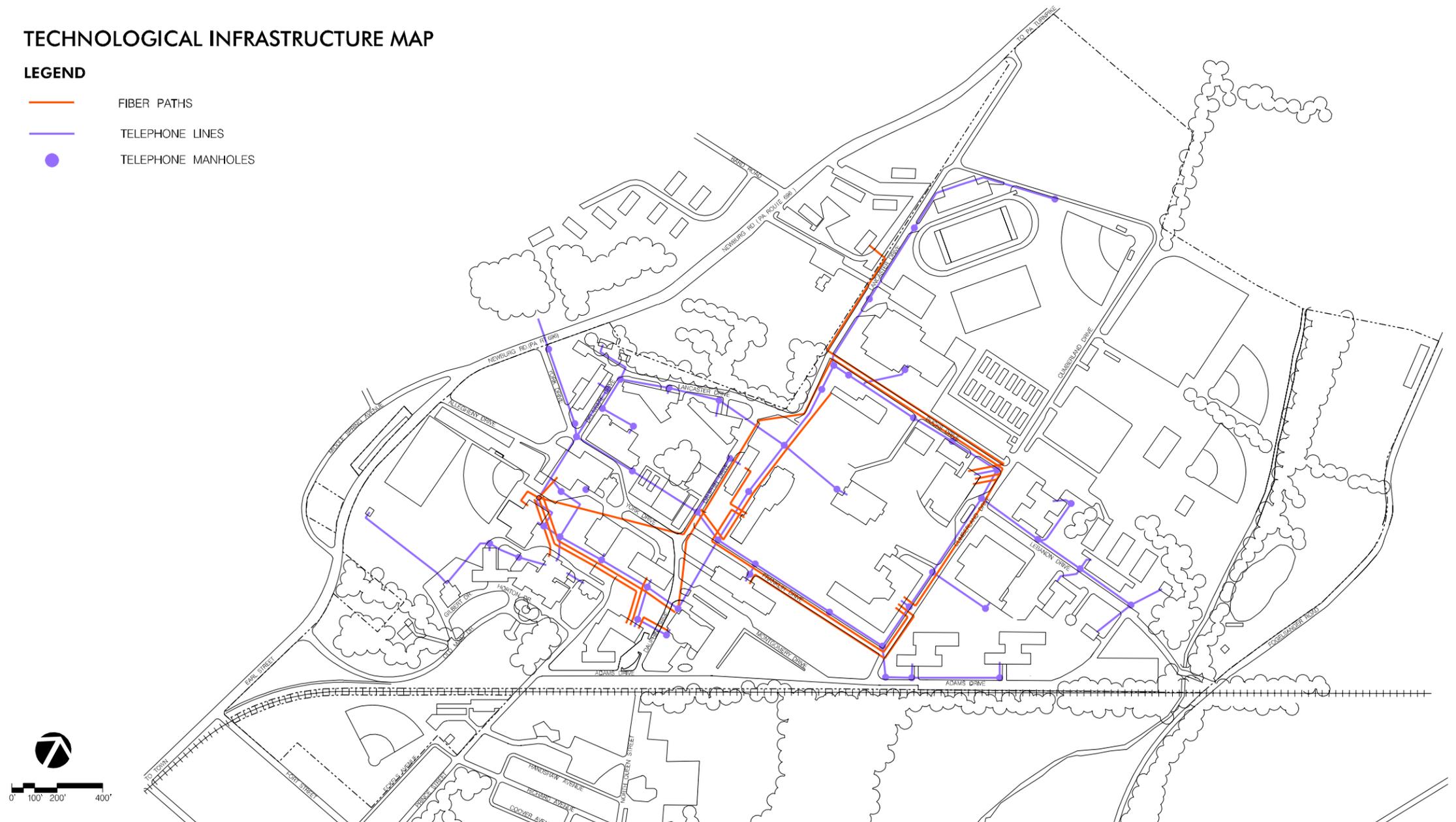
There are some older computer labs that use coaxial cable to ethernet hubs. From the ethernet hubs, the network is broken down into concentrators within the same environment (computer labs) rather than going to the wiring closet. The current trend though is to run a RJ45 socket directly from the ethernet hub. The transmission speed for this network is 10 Megabytes (MB) per second.

There is no data network system in the residence halls.

### TECHNOLOGICAL INFRASTRUCTURE MAP

#### LEGEND

- FIBER PATHS
- TELEPHONE LINES
- TELEPHONE MANHOLES





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