

## **9.0 General Infrastructure Element**

### **PURPOSE**

The purpose of this element is to ensure adequate provision of public facilities and services required to meet the future needs of the University, including the following:

- a) Ensure provision of adequate stormwater management capacity to protect the welfare of both the University's and host community's residents and prevent water damage to public and private property;
- b) Ensure provision of sufficient potable water to meet anticipated University needs;
- c) Ensure provision of adequate sanitary sewer and treatment capacity to meet anticipated University needs; and
- d) Ensure provision of adequate solid waste handling and disposal capacity to meet anticipated University needs.

### **STORMWATER MANAGEMENT SUB-ELEMENT**

#### **(1) DATA REQUIREMENTS.**

- a) **An inventory of all public and private facilities and natural features which provide stormwater management for the campus, including detention and retention structures, storm drainage pipe systems, natural stream channels, rivers, lakes, wetlands, etc.**

The FAMU campus is within the Lake Munson Drainage Basin. For the purpose of this analysis of the FAMU campus stormwater impacts, the drainage study limits are referred to as the Drainage Boundary as shown on Figure 9.1A-B. The topography of the Drainage Basin differs throughout ranging from 200 feet above the National Geodetic Vertical Datum (NGVD) in the center of campus to less than 50 feet NGVD at the south end of campus.

The campus is located within three watersheds: Leon High Watershed, Florida State University Watershed, and the Indian Head Watershed. The stormwater runoff from the campus drainage area is directed to three receiving water bodies, St. Augustine Branch, Central Drainage Ditch and East Drainage Ditch. These bodies converge to the Munson Slough, a natural channel. These conveyances ultimately discharge to Lake Munson. The City of Tallahassee maintains all of these discharge locations.

The campus drainage area is divided based on the three main watersheds intersecting campus, each discharging to its associated receiving water body. These main watershed basins are comprised of seven (7) Catchment Areas within the campus Drainage Boundary, grouped according to the receiving water body. See Figure 9.1A-B: Existing Drainage Map (North and South) for the boundaries of these Catchment Areas.

The Leon High Watershed is comprised of Catchment Areas 1, 2, 3 and 5, which discharge to the St. Augustine Branch. Catchment Area 1 is just east of Eugenia Street on Figure 9.1A. The St. Augustine Branch flows west across the northern boundary of FAMU and discharges to the Central Drainage Ditch approximately one mile

downstream. Also, contributing to the Central Drainage Ditch is the Florida State University Watershed area on campus, which is comprised of Catchment Areas 4 and 6. Runoff to the Central Drainage Ditch reaches its outfall through a 54-inch pipe that runs parallel to Okaloosa Street, and drains near the intersection of Mill Street and Kissimmee Street.

The remaining drainage area on campus is part of the Indian Head Watershed, which is comprised of Catchment Area 7. This area drains to the East Drainage Ditch. The East Drainage Ditch exits the campus under Orange Avenue and flows southwest for approximately two miles before discharging into the Munson Slough.

The 2000 – 2015 Inventory and Analysis Report summarized the construction and capacity accounting of Stormwater Management Facilities (SWMF) for the period 1993 through 2005 as well as for facilities constructed prior to 1993. Included in this summary were the fair share payments made to the City of Tallahassee as part of the 2006 Campus Development Agreement which was later revised to include the pre-1993 fair share payments and the Multipurpose Gymnasium. The 2010 – 2020 Inventory and Analysis Report provided for those facilities constructed after 2006. Since that report was completed, additional SWMF have been constructed. These SWMF are listed in Table 9.1 and are shown on the Figures 9.1A-B. No additional SWMF have been constructed since the 2010-2020 Inventory and Analysis Report was prepared.

**Table 9.1 SWMF Constructed Since 2010**

<b>SWMF ( Pond #)</b>	<b>Facility Served</b>	<b>Located in Catchment Area</b>	<b>Description</b>
-	Utility Substation	7	Provides water quality treatment and attenuation
2 (Expansion)	FAMU Village	4	Provides water quality treatment and attenuation
9 (Expansion)	Intramural Fields	7	Provides water quality treatment and attenuation
14	Pharmacy Phase II	3	Provides water quality treatment and attenuation

Source: 2010 - 2020 Inventory and Analysis and Campus Development Agreement, 2015.

**b) For facilities shared with the host community, a description of the proportional capacity of the facility required to meet existing University needs, including a description of any capacity that may have been previously allocated to the University by the host community.**

The 2010 – 2020 Inventory and Analysis Report summarized the facilities shared with the host community. As reported the host community does not provide proportional capacity to support the needs of the University as it continues to grow. Although all stormwater runoff from the FAMU property ultimately discharges into the Central Drainage Ditch and then into a natural channel called

Munson Slough which flows into Lake Munson, stormwater attenuation and treatment occurs on campus for development after 1993.

**c) The following data shall be included for the stormwater management facilities identified in (1) a):**

**1. The entity having operation responsibility for the facility;**

The existing drainage collection, conveyance, and treatment systems on campus are maintained by FAMU. The City of Tallahassee maintains the drainage system within the city streets. The city and state maintain the major waterways including St. Augustine Branch and Munson Slough and branch lines.

**2. The geographic service area of the facility and the predominant types of land uses served by the facility;**

See Figure 9.1A-B for geographic service areas of the campus facilities. Existing land uses are defined within the 4.0 Land Use Element of this plan.

**3. The design capacity of the facility;**

FAMU has constructed stormwater management facilities (SWMF) for treatment of stormwater runoff for new construction projects since 1993. These SWMF were designed per state and local governing agencies, and they provide stormwater management functions for the localized stormwater runoff for each new construction. These new SWMFs were not intended to address stormwater treatment for any construction prior to 1993, and do not include any additional campus area other than referenced new construction.

For construction prior to 1993 the University negotiated a campus development agreement with the City of Tallahassee. All impervious areas within these basins were tabulated and payment was made to the City of Tallahassee for Regional Stormwater Facilities. For this development (pre-1993), no on-campus stormwater management facilities will be required. Each development since 1993, except where included in the 2001 Campus Development Agreement, has been designed and constructed with stormwater management facilities. The facilities were designed with a capacity to meet state and local stormwater requirements. These facilities include collection, conveyance, treatment, storage and outfalls.

**4. The current demand on the capacity of the facility; and**

The existing stormwater facilities are insufficient to provide adequate on-site treatment and attenuation of existing developments prior to 1993. This is an accepted condition for which the City and FAMU have agreed upon and FAMU paid a fair share mitigation cost for all impervious area constructed prior to 1993. With this payment FAMU has paid for capacity for all development prior to 1993 and is under no requirement to provide stormwater management for pre-1993 construction. Since 1993 all stormwater management for construction on FAMU has been governed by the State (FDEP) and city requirements. The NFWFMD assumed stormwater and regulating authority from FDEP in 2007. The Development Agreement states that all stormwater facilities shall comply with the infrastructure standards of the FAMU Master Plan Infrastructure element which requires FAMU to meet all requirements of permit review with the

Northwest Florida Water Management District and the city. The University only needs to submit plans to the city for review but must meet the standards.

**5. The level of service provided by the facility.**

The existing level of service on-campus is limited to collection, conveyance, and disposal with the exception of localized stormwater treatment facilities in conjunction with new campus construction since 1993. The SWMFs provide water quality and quantity management to meet FDEP, Northwest Florida Water Management District and City of Tallahassee.

**d) Major natural stormwater management and hydrological features shall be identified and included on a map.**

The major natural stormwater management and hydrological features are shown on Figure 9.1A-B.

**(2) ANALYSIS REQUIREMENTS.**

**a) A facility capacity analysis, by geographic service area, indicating capacity surpluses and deficiencies for:**

**1. Existing conditions based on the facility design capacity and the current demand on facility capacity; and**

In regards to stormwater treatment and attenuation, FAMU has paid for its needed capacity/mitigation within the City's Regional Stormwater Facilities for all development prior to 1993. After 1993 the University has been constructing on-site SWMF's for new construction, typically on-site for the specific building/project. There is no identified surplus since each facility is designed for a specific new project/building.

The City of Tallahassee has conducted several studies that address the stormwater conveyance systems. These systems are the East Drainage Ditch, St. Augustine Branch, and the Central Drainage Ditch. These studies were done in order to update the Federal Emergency Management Agency (FEMA) Flood Insurance Rate Maps (FIRM). In these studies the existing systems were evaluated and modeled to determine the stormwater management function of each system. FAMU is a small contributor into these major facilities, and at this time the drainage conveyance systems are considered adequate for campus drainage.

**2. The end of the planning time frame, based on the projected demand at current level of service standards for the facility, projected student populations and land use distributions, any available existing surplus facility capacity.**

No stormwater surplus capacity exists.

**b) The general performance of existing stormwater management facilities, evaluating the adequacy of the current level of service provided by the facility, the general condition and expected life of the facility and the impact of the facility upon adjacent natural resources.**

As previously stated, all stormwater treatment prior to 1993 has been mitigated by FAMU paying its Fair Share to the City of Tallahassee for mitigation of impacts. Since that time, FAMU has been constructing SWMF at individual project sites. As with any urban campus this practice will not be sustainable as the campus density increases. The current campus stormwater management at his time meets the LOS requirements, however there is no additional capacity.

Generally, FAMU's topography exhibits considerable elevation differences. These differences in elevation do not support the present practice of constructing stormwater management facilities at or near each proposed development area throughout the campus.

Land use in the Leon High Watershed drainage area on north campus is typical of a university campus. Classroom facilities, dormitories, parking areas, and athletic fields/green space are the most frequently occurring uses. The impervious coverage is approximately forty (40) percent. Elevations range from about two hundred (200) feet to eighty (80) feet National Geodetic Vertical Datum (NGVD) over about one thousand, six hundred (1,600) feet of distance. This results in an average slope of 7.5 percent

Given the density of impervious surface, the relatively steep slopes, and generally low permeability soils, it is expected that runoff from this basin will be heavy, turbid, and swift. Erosion problems could be anticipated in poorly vegetated areas and areas which have recently been disturbed.

Land use in the Florida State University watershed drainage area on campus is quite similar to that in north campus. Impervious area is approximately forty (40) percent, and the elevations range from two hundred and ten (210) feet to one hundred (100) feet NGVD with an average slope of five (5) percent. The soils are also similar to those found in north campus. Runoff characteristics can be expected to be quite similar to the north basin also, being typified by swift velocities and high peak rates of discharge.

Land use in the south campus Indian Head Watershed drainage area is less impervious as it consists of primarily athletic fields and the Developmental Research School (DRS). SWMF were constructed at the athletic field north of the DRS. Lower portions of this drainage area (southeast portion) are likely locations for future stormwater management facilities. Impervious cover is approximately twenty (20) percent. Elevations range from about one hundred and sixty (160) feet near Osceola Street to forty-five (45) feet in a depression near the southeast corner of the campus. The average slope is 3.5 percent, all runoff eventually discharges to the East Drainage Ditch which transects the southeast corner of the FAMU property from northeast to southwest.

**c) An analysis of the problems and opportunities for stormwater management facility expansion or replacement to meet projected needs of the University.**

For any urban campus such as FAMU the ability to build stormwater management facilities at each building is very limited and not a practical solution to the challenge of meeting stormwater environmental requirements. The ideal solution is to have a central or regional stormwater management facility off campus that is owned and operated by the City and provides stormwater quality and quantity management. The City's Regional stormwater management facility (RSF) on Lake Bradford Road is a good example of this. Unfortunately this RSF is upstream of the FAMU Campus and cannot provide treatment for direct runoff

from FAMU. Meaningful discussions need to be initiated with the City of Tallahassee to plan and construct an off-site RSF that can provide direct stormwater management for future development at FAMU. Such a facility would most likely be located to the south of FAMU and provide treatment for FAMU basins 6 and 7 as well as compensating volume for the other basins that cannot flow to the south. Without a RSF, the most available space for stormwater treatment will be the southern portion of campus between the intramural field and the DRS or at the southeast east corner of the campus adjacent to Orange Avenue. Other innovative approaches to stormwater management should be considered such as underground detention and cisterns to recycle stormwater for irrigation.

- d) Existing regulations and programs which govern land use and development of natural stormwater management features shall be analyzed, including the strengths and deficiencies of those programs and regulations in maintaining the functions of natural stormwater management features.**

All construction with new impervious areas must meet stormwater quality and quantity permitting requirements of the Northwest Florida Water Management District and the city. FAMU is only required to submit plans to the city for review, however a formal Environmental permit is not required from the city. The strength of such programs is that it provides a uniform, effective policy to reduce pollution and to control peak discharges. The deficiencies of such a program is that it is inflexible and impractical for urban-type campuses and facilities as it does not require the city or other entity to provide central stormwater management (which is more practical in an urban environment).

## **POTABLE WATER SUB-ELEMENT**

### **(1) DATA REQUIREMENTS.**

- a) An inventory of existing potable water facilities on the campus (map, narrative), indicating location and sizes of main distribution lines.**

See Appendix A – Florida A&M University Water & Sewer Utilities Analysis 2015-2025 Master Plan Update.

- b) For facilities shared with the host community, a description of the proportional capacity of the facility required to meet existing University needs, including a description of any capacity that may have been previously allocated to the University by the host community.**

See Appendix A – Florida A&M University Water & Sewer Utilities Analysis 2015-2025 Master Plan Update.

- c) The following data shall be included for the potable water facilities identified in (1) a):**

- 1. The entity having operational responsibility for the facility;**

See Appendix A – Florida A&M University Water & Sewer Utilities Analysis 2015-2025 Master Plan Update.

**2. The geographic service area of the facility and the predominant types of land uses served by the facility;**

See Appendix A – Florida A&M University Water & Sewer Utilities Analysis 2015-2025 Master Plan Update.

**3. The design capacity of the facility;**

See Appendix A – Florida A&M University Water & Sewer Utilities Analysis 2015-2025 Master Plan Update.

**4. The current demand on the capacity of the facility**

See Appendix A – Florida A&M University Water & Sewer Utilities Analysis 2015-2025 Master Plan Update.

**5. The level of service provided by the facility.**

See Appendix A – Florida A&M University Water & Sewer Utilities Analysis 2015-2025 Master Plan Update.

**d) Major potable water and hydrological features shall be identified and included on a map.**

See Appendix A – Florida A&M University Water & Sewer Utilities Analysis 2015-2025 Master Plan Update.

**(2) ANALYSIS REQUIREMENTS.**

**a) A facility capacity analysis, by geographic service area, indicating capacity surpluses and deficiencies for:**

**1. Existing conditions, based on the facility design capacity and the current demand on facility capacity; and**

See Appendix A – Florida A&M University Water & Sewer Utilities Analysis 2015-2025 Master Plan Update.

**2. The end of the planning time frame, based on the projected demand at current level of service standards for the facility, projected student populations and land use distributions, and any available existing surplus facility capacity.**

See Appendix A – Florida A&M University Water & Sewer Utilities Analysis 2015-2025 Master Plan Update.

- b) The general performance of existing potable water facilities, evaluating the adequacy of the current level of service provided by the facility, the general condition and expected life of the facility, and the impact of the facility upon adjacent natural resources.**

See Appendix A – Florida A&M University Water & Sewer Utilities Analysis 2015-2025 Master Plan Update.

- c) An analysis of the problems and opportunities for potable water facility expansion or replacement to meet projected needs of the University.**

See Appendix A – Florida A&M University Water & Sewer Utilities Analysis 2015-2025 Master Plan Update.

- d) A description of the campus underground hydrology, including its potential for use as a potable water source.**

The City of Tallahassee is responsible for providing potable water to FAMU. Therefore, FAMU has no need or responsibility for this exploration of new raw water sources.

- e) An analysis of existing local, state and federal regulations governing potable water systems.**

All future water facilities must meet the FDEP standards pertaining to water distribution. Raw water supply and treatment is the responsibility of the City of Tallahassee.

## **SANITARY SEWER SUB-ELEMENT**

### **(1) DATA REQUIREMENTS**

- a) An inventory of the existing sanitary sewer systems on the campus indicating location and sizes of main collection lines.**

See Appendix A – Florida A&M University Water & Sewer Utilities Analysis 2015-2025 Master Plan Update.

- b) For facilities shared with the host community, a description of the proportional capacity of the facility required to meet existing University needs, including a description of any capacity that may have been previously allocated to the University by the host community.**

See Appendix A – Florida A&M University Water & Sewer Utilities Analysis 2015-2025 Master Plan Update.

- c) The following data shall be included for the sanitary sewer facilities identified in (1) a):**

- 1. The entity having operational responsibility for the facility;**



See Appendix A – Florida A&M University Water & Sewer Utilities Analysis 2015-2025 Master Plan Update.

**2. The geographic service area of the facility and the predominant types of land uses served by the facility;**

See Appendix A – Florida A&M University Water & Sewer Utilities Analysis 2015-2025 Master Plan Update.

**3. The design capacity of the facility;**

See Appendix A – Florida A&M University Water & Sewer Utilities Analysis 2015-2025 Master Plan Update.

**4. The current demand on the capacity of the facility; and**

See Appendix A – Florida A&M University Water & Sewer Utilities Analysis 2015-2025 Master Plan Update.

**5. The level of service provided by the facility.**

The current Development Agreement states that the Comprehensive Plan establishes a LOS of 140 gallons per day per capita. Information was being compiled at the time of this draft concerning the water and sewer use for the entire campus. Primarily FAMU needs only to provide the on-campus conveyance for the LOS as the City will provide the wastewater treatment. It is expected that the FAMU average sewerage will be less than 55 gpc per student.

**d) Major sanitary sewer facilities shall be identified and included on a map.**

See Appendix A – Florida A&M University Water & Sewer Utilities Analysis 2015-2025 Master Plan Update.

**(2) ANALYSIS REQUIREMENTS.**

**a) A facility capacity analysis, by geographic service area, indicating capacity surpluses and deficiencies for:**

**1. Existing conditions, based on the facility design capacity and the current demand on facility capacity; and**

See Appendix A – Florida A&M University Water & Sewer Utilities Analysis 2015-2025 Master Plan Update.

**2. The end of the planning time frame, based on the projected demand at current level of service standards for the facility, projected student populations and land use distributions, any available existing surplus facility capacity.**

See Appendix A – Florida A&M University Water & Sewer Utilities Analysis 2015-2025 Master Plan Update.

- b) The general performance of existing sanitary sewer facilities, evaluating the adequacy of the current level of service provided by the facility, the general condition and expected life of the facility, and the impact of the facility upon adjacent natural resources.**

See Appendix A – Florida A&M University Water & Sewer Utilities Analysis 2015-2025 Master Plan Update.

- c) An analysis of the problems and opportunities for sanitary sewer facilities.**

See Appendix A – Florida A&M University Water & Sewer Utilities Analysis 2015-2025 Master Plan Update.

- d) An analysis of existing local, state and federal regulations governing sanitary sewer collection and treatment systems.**

FAMU is only responsible for the sewer collection system located on campus. The City of Tallahassee is responsible for the permitting and operation of the regional wastewater treatment facility. New sewer collection/transmission systems and modifications of existing systems on campus must be designed, permitted and operated in accordance with the provisions of DEP Rule 17-604, FAC. The operating permit for the regional wastewater treatment facility is the responsibility of the City of Tallahassee. Operating permits are not issued for the collection/transmission sewer systems located on campus.

## **SOLID WASTE SUB-ELEMENT**

### **(1) DATA REQUIREMENTS.**

- a) An inventory of the existing solid waste collection and disposal systems on the campus, indicating facilities for the storage and /or disposal of hazardous and medical wastes.**

Solid waste is currently being collected and disposed of by the City of Tallahassee. FAMU is only responsible for the collection and disposal of yard trash and debris. Solid waste is either recycled or sent to the county landfill. Special dumpsters are set up for these purposes throughout the campus. The operation of the landfill is the responsibility of Tallahassee-Leon County. The county's main goal is to provide adequate and cost-effective solid waste disposal and collection service. Policies within the county's Comprehensive Plan provide a means to reduce the volume of waste going to the landfill by establishing recycling programs and other waste reduction programs.

- b) The amount of solid waste generated by the University.**

The cost of solid waste service is used as a relative indicator of the solid waste produced. The City provides dumpster pick up, compactor pickup and recycle pickup for the University. There is no weight recorded on the dumpster or recycle pick up; therefore the cost of solid waste is used as a relative indicator of the amount of solid waste produced. See also paragraph (2) (b) below.

**Table 9.4 Solid Waste Generation 2016**

<b>Month</b>	<b>Cost</b>
January 2016	\$12,904.96
February 2016	\$11,683.30
March 2016	\$14,805.74
April 2016	\$14,794.60
May 2016	\$23,904.69
June 2016	\$11,166.26
July 2016	\$11,449.32
August 2016	\$16,907.80
September 2016	\$12,766.47
October 2016	\$14,102.56
November 2016	\$14,719.60
December 2016	\$11,619.68
<b>Total</b>	<b>\$170,824.98</b>

Source: FAMU, Physical Plan, 2017

- c) For facilities shared with the host community, a description of the proportional capacity of the facility required to meet existing University needs, including a description of any capacity that may have been previously allocated to the University by the host community.**

The City of Tallahassee-Leon County landfill provides solid waste capacity for the University. There is no specific allocation to the University; however the current Development Agreement between the City and FAMU requires that capacity will be provided by the City.

- d) The following data shall be included for the solid waste collection and disposal facilities identified in (1) a):**

- 1. The entity having operational responsibility for the facility;**

The City of Tallahassee Waste Management has responsibility for solid waste collection and disposal of generated waste located at FAMU.

- 2. The geographic service area of the facility and the predominant types of land uses served by the facility**

See 5. below.

- 3. The design capacity of the facility;**

See 5. below.

- 4. The current demand on the capacity of the facility; and**

See 5. below.

**5. The level of service provided by the facility.**

Items 2 through 4 are provided for by the City of Tallahassee-Leon County and adequate capacity is provided. The City of Tallahassee Development Agreement and Comprehensive Plan allocate a Level of Service to the University of 7.4 lbs per capita per day. It is estimated by FAMU that the students generate 7.67 lbs of solid waste per student per day. However during certain periods when awareness of recycling is heightened, such as RecycleMania competition or the annual CANpaign, much greater recycle rates are achieved, thereby reducing the rate considerably. FAMU currently has a goal to reduce solid waste by 20% by the year 2020.

**e) Major solid waste collection and disposal facilities shall be identified and included on a map.**

See Figures 3.2 A-B of Building Service area Maps for location of dumpsters, and recycle bins.

**(2) ANALYSIS REQUIREMENTS.**

**a) A facility capacity analysis, by geographic service area, indicating capacity surpluses and deficiencies for:**

**1. Existing conditions, based on the facility design capacity and the current demand on facility capacity; and**

A capacity analysis of the City-County solid waste landfill is not within the scope of services of this plan since the solid waste service is provided for by the City and County. It should be noted that no capacity deficiencies have been observed in the solid waste and disposal system at FAMU.

**2. The end of the planning time frame, based on the projected demand at current level of service standards for the facility, projected student populations and land use distributions, any available existing surplus facility capacity.**

The projected increases in solid waste are listed below. It is expected that no capacity problems will be experienced by the City-County; however surplus capacity cannot be estimated.

**Table 9.5 Projected Solid Waste Generation 2016-2022 (Cost)**

<b>Year</b>	<b>Cost</b>
2016	\$170,825.00*
2017	\$174,241.00
2018	\$177,726.00
2019	\$181,281.00
2020	\$184,906.00
2021	\$188,605.00
2022	\$192,377.00

\*Actual cost in 2016  
Source: FAMU, Physical Plan, 2017

Projections are based on a projected growth rate of approximately 2% and allowance for a slight increase in Level of Service.

**b) The general performance of existing solid waste collection and disposal facilities, evaluating the adequacy of the current level of service provided by the facility, the general condition and expected life of the facility, and the impact of the facility upon adjacent natural resources.**

The performance of the existing solid waste service is adequate. The current level of Service allocated by Development Agreement between Tallahassee and FAMU is 7.4 lbs per day per capita. The City provides dumpster pick up, compactor pickup and recycle pickup for the University. These containers are distributed throughout the university. There are no weights recorded on the dumpster collection. The dumpster collection is invoiced by frequency of pick up and size of the container. The compactor pickup is invoiced by weight. There is no charge for recycle pickup nor is there any recorded weight or volume for the recycle. Since there is no actual weighing of most of the solid waste, the cost of solid waste service is the best indicator of increases or decreases in solid waste production. The cost of solid waste service is used as a relative indicator of the solid waste produced.

**c) An analysis of the problems and opportunities for solid waste collection and disposal facility expansion or replacement to meet projected needs of the University.**

No expansion of the City's service is expected to meet the needs of the University.

**d) An analysis of existing local, state and federal regulations governing solid waste collection and disposal systems.**

Federal Regulations: The federal government regulates solid waste in order to minimize the potential for environmental impacts, and to encourage resource recovery. The U.S. Environmental Protection Agency (EPA) reviews solid waste management facilities for air and water quality impacts. The U. S. Army Corps of Engineers, along with the Florida Department of Environmental Protection (DEP), regulate filling activities in wetlands. The 1976 Federal Resource Conservation and Recovery Act (PL 94□580) removed the regulatory constraints that impeded resource recovery in order to encourage states to conserve materials and energy.

The Resource Conservation and Recovery Act also addresses the regulation of hazardous wastes. Pursuant to this Act, EPA has set forth guidelines and standards for the handling of hazardous wastes, and directs state agencies, including Florida's DEP, to regulate hazardous waste management. To aid in hazardous waste management financing, the EPA "Superfund" Program was established by the Comprehensive Emergency Response and Compensation Liability Act of 1980. This Act provided EPA with the funds to respond to sites requiring clean-up and emergency mitigation, and allows local governments to apply for funding of their hazardous waste management projects.

**State Regulations:** The environmental impacts of solid waste are regulated at the state level by the Florida Department of Environmental Protection (DEP). The DEP follows the solid waste management guidelines set forth in Rule 17-701, F.A.C. when permitting solid waste facilities. Specifically, the DEP has established evaluation criteria for the construction, operation, closure and long-term care of landfills. The agency also regulates the handling, classification and disposal of wastes, as well as resource recovery operations.

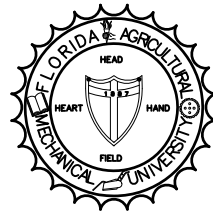
The 1974 Florida Resource Recovery and Management Act (Chapter 403.701, F.S.) required each county to prepare a Solid Waste Management Plan. In 1988 this Act was amended by the Solid Waste Management Act to establish state goals, regulations and programs for a host of solid waste activities. It mandates that counties recycle fifty percent of their total municipal solid waste by December 2015, and 75% by December 2020. No more than half of the 30% can be met with yard trash, white goods, construction debris and tires. It requires that, at minimum, a majority of newspaper, aluminum cans, glass and plastic must be separated from the solid waste stream and offered for recycling. The State imposes deadlines for the separate handling of various special wastes, including construction and demolition debris, yard waste, white goods and used batteries and oil, to divert their disposal away from the landfills. Composting of other mechanically treated solid waste and yard trash is also encouraged.

**e) An assessment of opportunities or available and practical technologies for the reduction, recycling and re-use of solid waste generated by the University.**

The Sustainability Institute was initiated in 2014 to advance the University's role in practicing, researching and promoting efforts for resource stewardship and efficiency. Among its many goals, this arm of the University is charged with discovering additional ways to reduce solid waste on campus and increase awareness about the importance of recycling.

**f) An analysis of the terms of any agreements of the collection and/or disposal of University-generated solid waste, including allocated capacity and duration of service.**

The current Development Agreement between the City and FAMU states that the City and University agree that sufficient solid waste capacity is available for the previous planning period which extended thru 2020. The City should evaluate the projected population of the University in this report to assess the solid waste capacity through 2025.



- 001 - LEE HALL
- 002 - JACKSON DAVIS HALL
- 003 - UNIVERSITY COMMONS
- 005 - N.B. YOUNG HALL
- 006 - S.B.I. / SOUTH WING
- 007 - CARNEGIE CENTER
- 008 - LUCY MOTEN
- 009 - WARE / RHANEY BUILDING
- 010 - TRACK & FIELD TOWER
- 011 - ATHLETIC STORAGE BUILDING
- 012 - GEORGE CONOLY GREENHOUSE
- 013 - PRESIDENT'S HOUSE
- 014 - TUCKER HALL
- 015 - HONOR HOUSE
- 016 - SCHOOL OF ARCHITECTURE
- 018 - MAIN GARAGE
- 017 - INTERNATIONAL LANGUAGE
- 019 - ENVIRONMENTAL SCIENCES INST.
- 021 - GAITHER GYMNASIUM

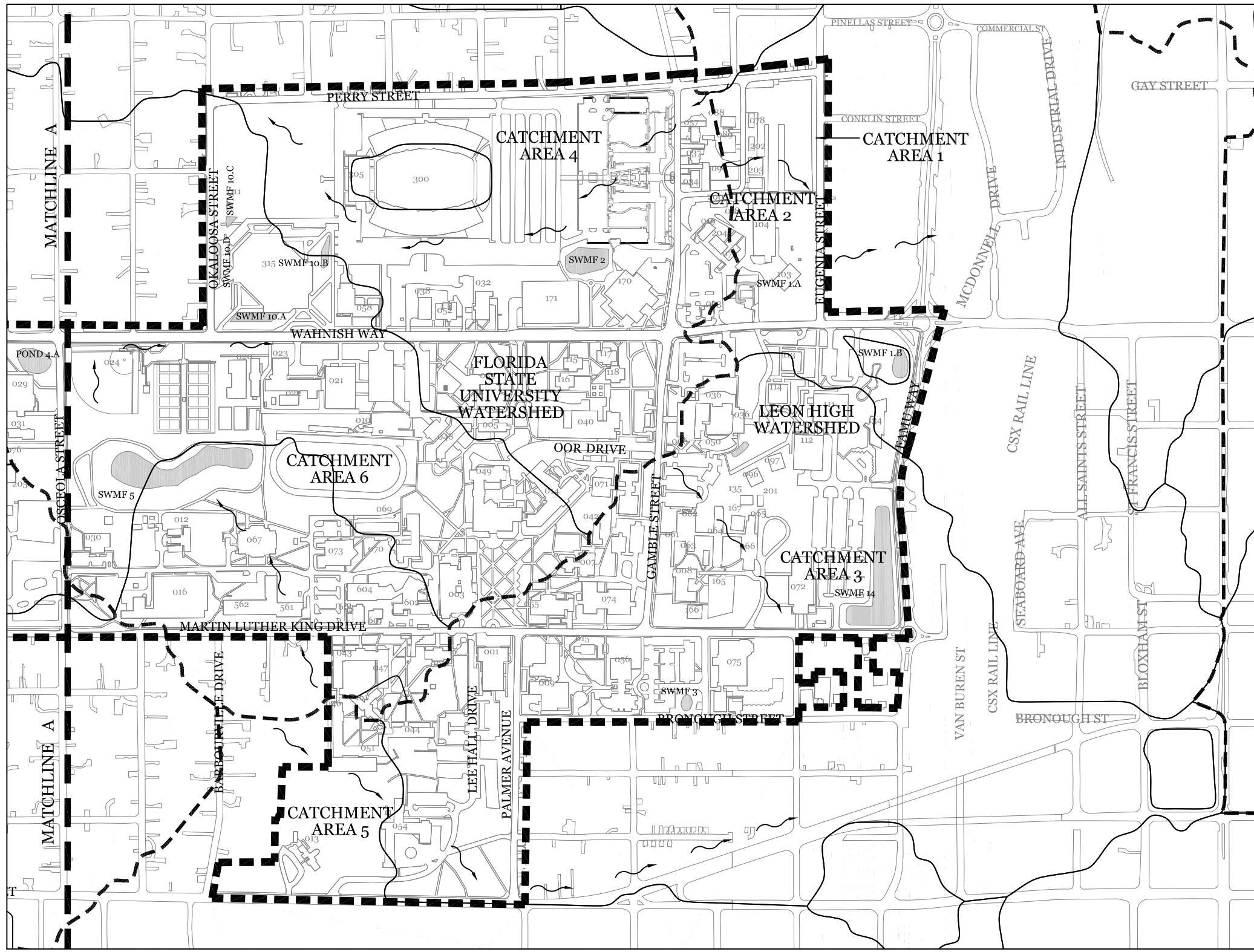
- 022 - GAITHER OFFICE & CLASSROOM
- 023 - L.S. BARTLEY ATHLETIC COMPLEX
- 024 - UNIVERSITY SOFTBALL DUGOUT
- 025 - HAZARDOUS STORAGE
- 026 - UNIVERSITY BASEBALL DUGOUT
- 029 - RECREATION CENTER
- 030 - USDA TELECONFERENCE CENTER
- 031 - DAIRY BARN AND WINERY
- 032 - M.S. THOMAS INDUSTRIAL ARTS LAB
- 034 - CONTINUING EDUC. CONF. CENTER
- 035 - UNIVERSITY BAND STORAGE
- 036 - S.B.I. / WEST & NORTH
- 037 - CONTINUING EDUCATION
- 038 - CENTRAL CHILLED WATER PLANT
- 040 - SCHOOL OF JOURNALISM
- 041 - UNIVERSITY ACTIVITIES CENTER
- 042 - COUNSELING CENTER
- 043 - MCGUINN HALL
- 044 - TRUTH HALL

- 046 - CROPPER HALL
- 047 - DIAMOND HALL
- 048 - SAMPSON HALL
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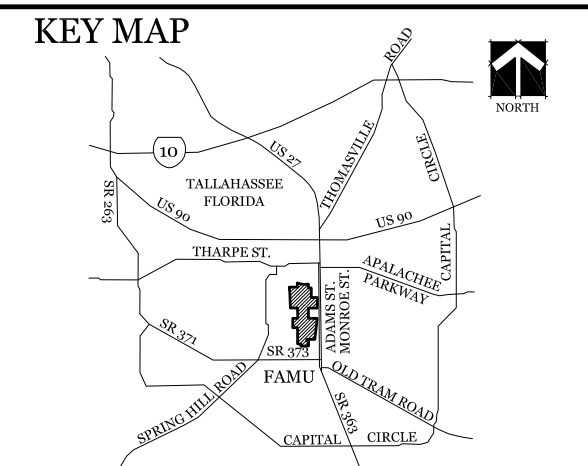
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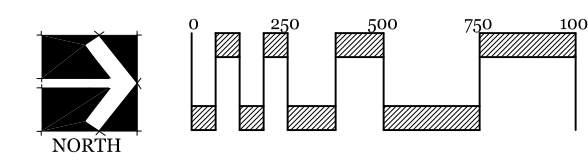


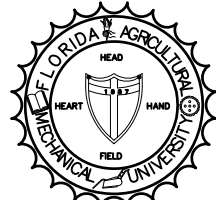
# EXISTING DRAINAGE MAP (NORTH)

- LEGEND:**
- WATERSHED BOUNDARY
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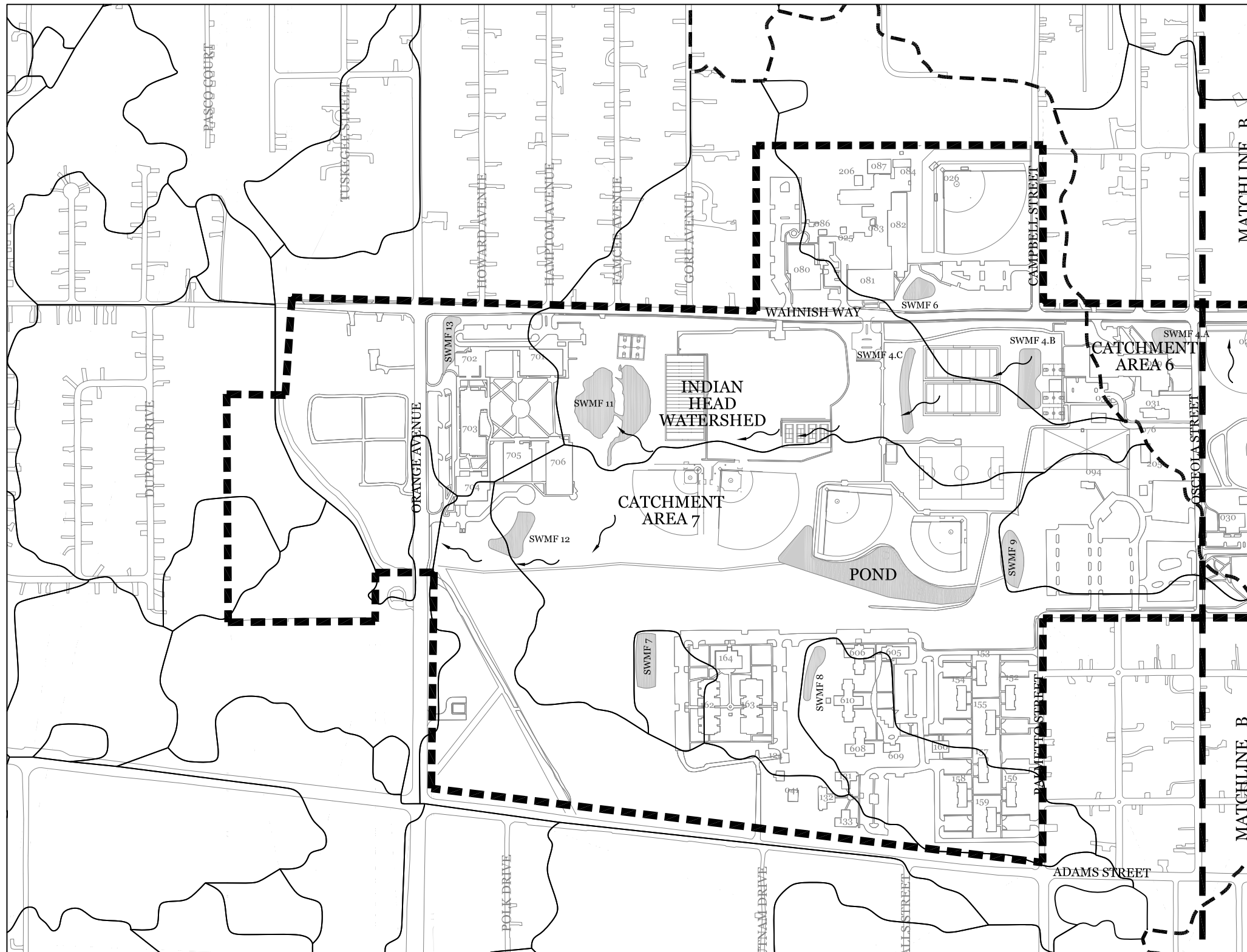
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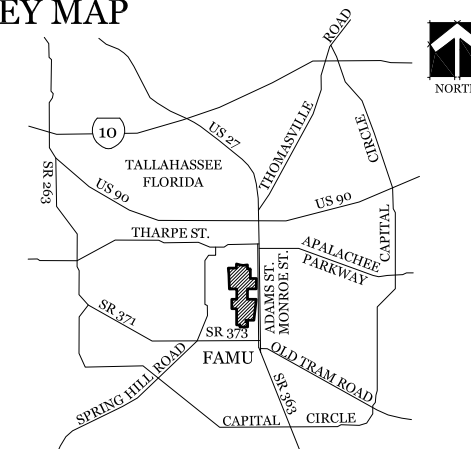


# EXISTING DRAINAGE MAP (SOUTH)

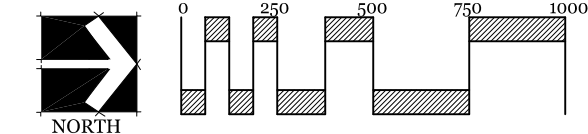
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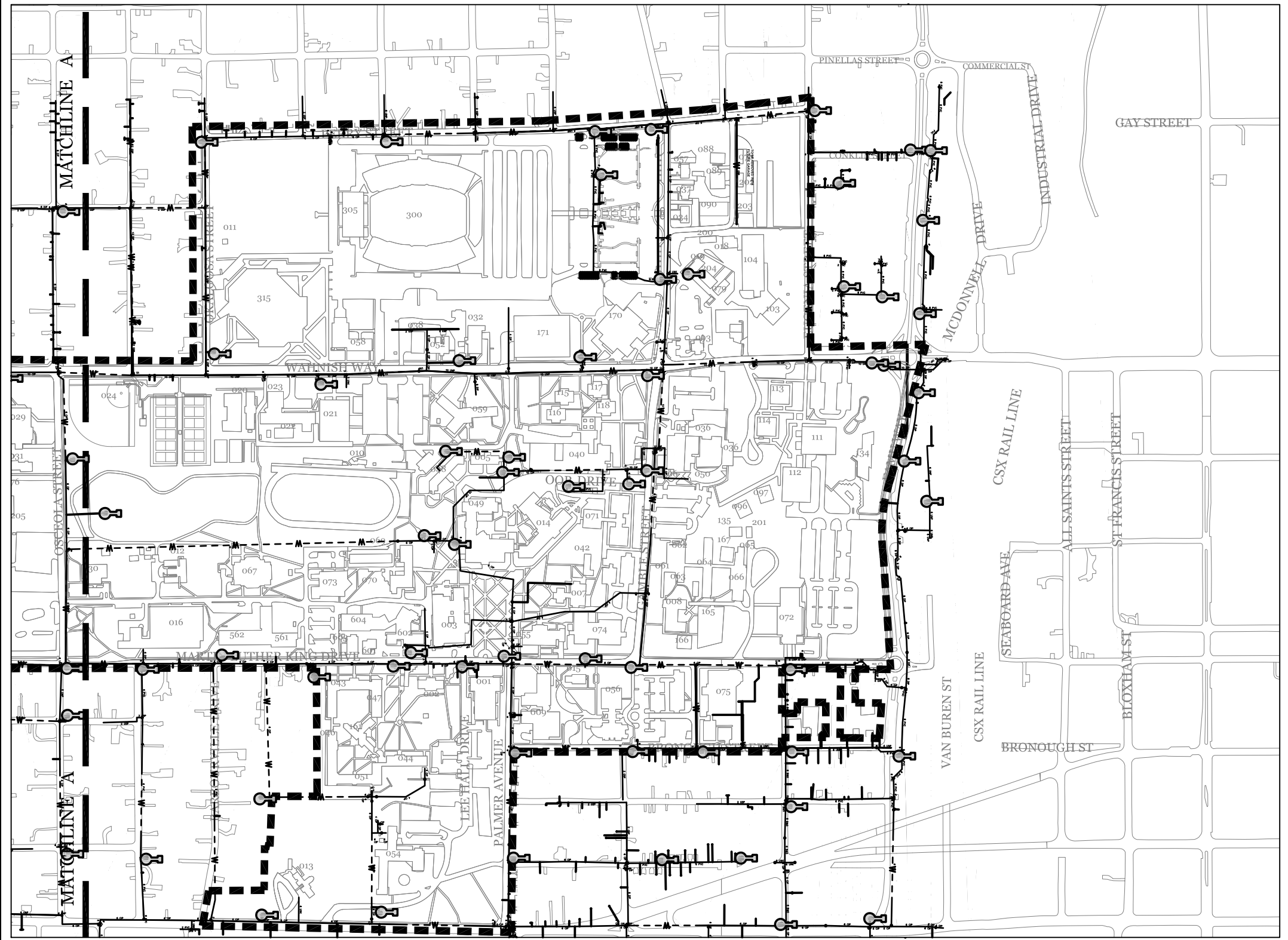
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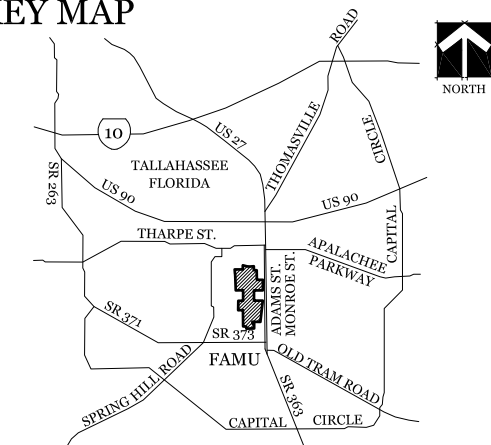
# EXISTING WATER MAP (NORTH)

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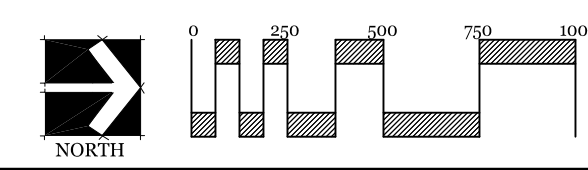
- EXISTING FIRE HYDRANT
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SOURCE: FAMU WATER AND UTILITIES ANALYSIS, JANUARY 17, 2017 PREPARED BY GENESIS. SEE REPORT FOR ADDITIONAL INFORMATION.

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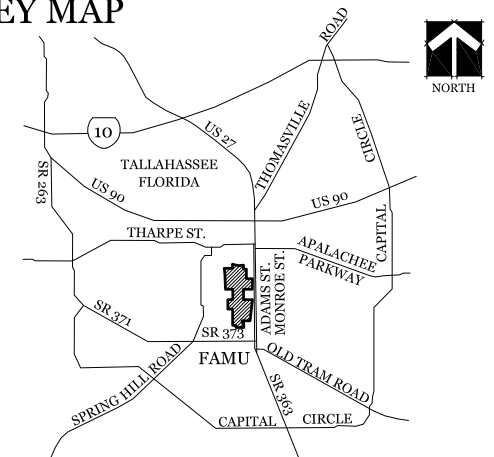
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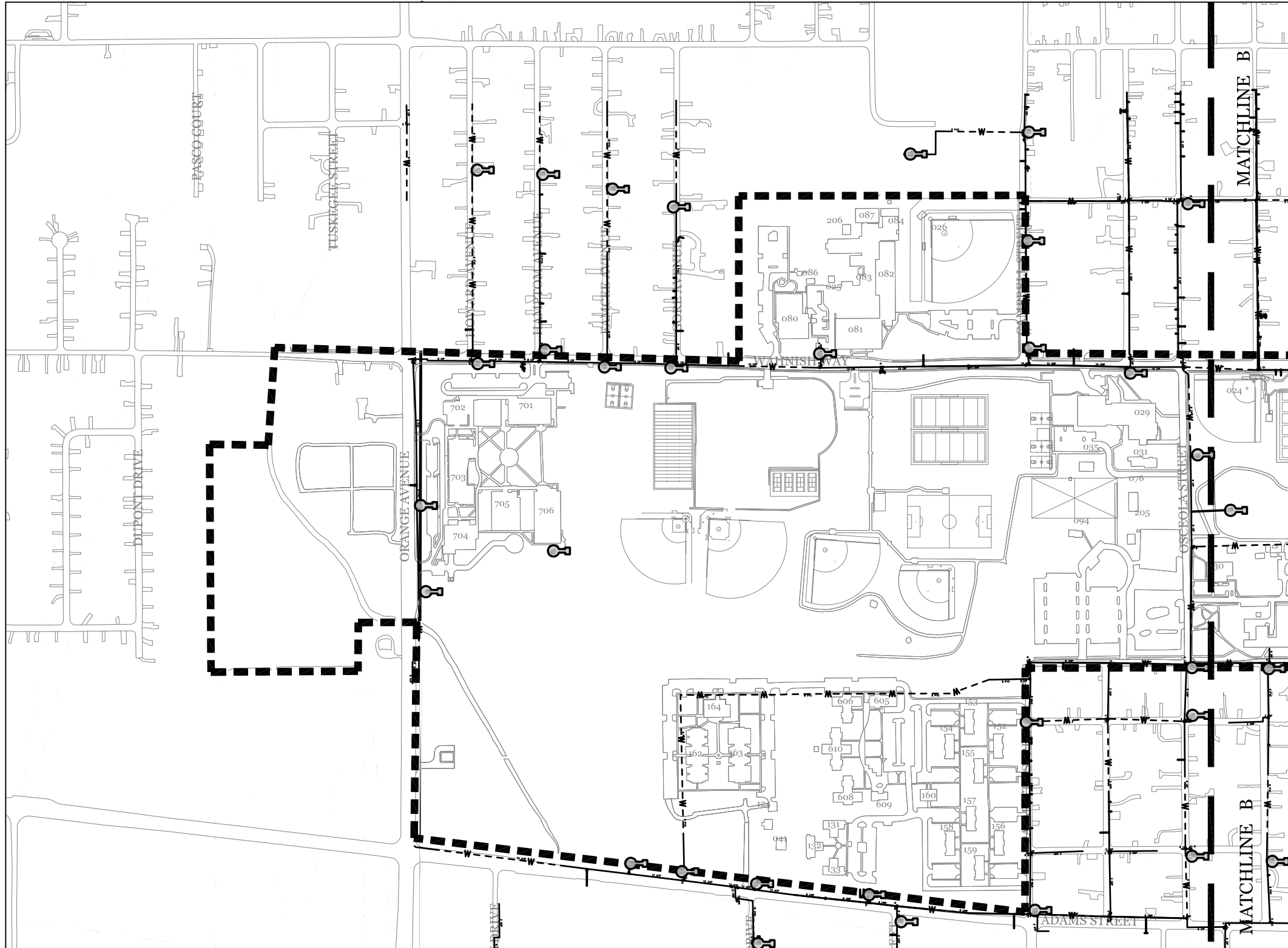
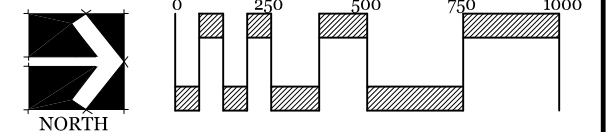
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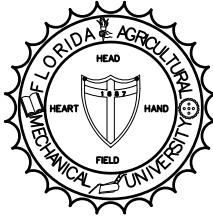
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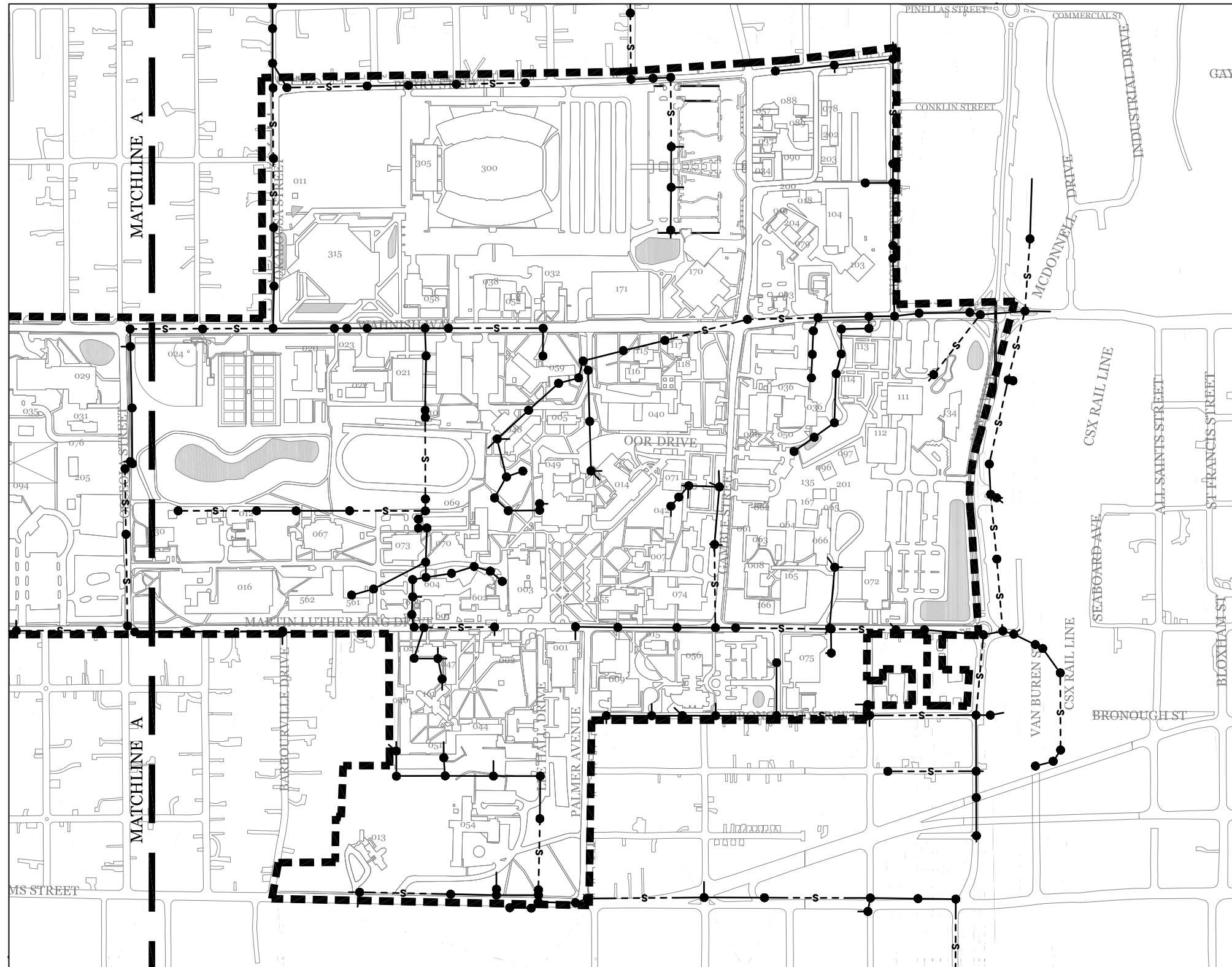
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- 034 - CONTINUING EDUC. CONF. CENTER
- 035 - UNIVERSITY BAND STORAGE
- 036 - S.B.I. / WEST & NORTH
- 037 - CONTINUING EDUCATION
- 038 - CENTRAL CHILLED WATER PLANT
- 040 - SCHOOL OF JOURNALISM
- 041 - UNIVERSITY ACTIVITIES CENTER
- 042 - COUNSELING CENTER
- 043 - MCGUNN HALL
- 044 - TRUTH HALL

- 046 - CROPPER HALL
- 047 - DIAMOND HALL
- 048 - SAMPSON HALL
- 049 - COLEMAN LIBRARY
- 050 - S.B.I. / EAST WING
- 052 - CENTRAL HEAT PLANT
- 054 - FOOTE / HILYER ADMIN. CENTER
- 055 - JONES HALL
- 056 - SCIENCE RESEARCH FACILITY
- 057 - CNTR FOR EQUITY & CULT. DIVERSITY
- 058 - HOWARD HALL
- 059 - GIBBS HALL
- 061-066 - OLD D.R.S.
- 067 - GENERAL CLASSROOM
- 068 - FOSTER-TANNER MUSIC CENTER
- 069 - FOSTER-TANNER CERAMIC CENTER
- 070 - FOSTER-TANNER ART CENTER
- 071 - GORE EDUCATION COMPLEX
- 072 - D.R.S. GYM

- 073 - FOSTER-TANNER BAND BUILDING
- 074 - DYSON PHARMACY
- 075 - COLLEGE OF PHARMACY
- 076 - SMALL ANIMAL LAB
- 078 - F&P
- 079 - UNIVERSITY PARKING SERVICES(M)
- 080-082 - P.O.M. BUILDINGS A-C
- 083 - P.O. HAZARDOUS STORAGE-A
- 084 - P.O. HAZARDOUS STORAGE-B
- 086 - P.O. MECH. CHILLER
- 087 - P.O.M. STORAGE
- 088 - ATHLETICS ACADEMICS
- 089 - LEARNING DEVELOPMENT EDUC. CENTER
- 090 - (M)
- 092 - TITLE THREE-FGMP(M)
- 093 - UNIVERSITY PARKING SERVICES / INFO
- 094 - FOSTER-TANNER OBSERVATION TOWER
- 096 - S.B.I. (M) I
- 097 - S.B.I. (M) II

- 103 - PHYSICAL PLANT STORAGE-A
- 104 - PHYSICAL PLANT TRANSITION CENTER
- 111-114 - BENJAMIN BANNEKER BLDGS A-D
- 115-118 - PADDYFOOTE COMPLEX A-D
- 124 - GIBBS COTTAGE
- 131-133 - SCHOLARSHIP HOUSES
- 134 - CHILDCARE CENTER
- 135 - D.R.S. HEALTH
- 136-151 - POLKINGHORNE VILLAGE APTS.
- 152-160 - PALMETTO STREET APARTMENTS
- 161 - WILLIAM GRAY, JR. PLAZA
- 162-164 - PALMETTO HOUSING PHASE III
- 165-167 - OLD D.R.S.
- 170 - STUDENT SERVICES CENTER
- 171 - PARKING GARAGE I
- 200 - EVENING AND WEEKEND COLLEGE
- 201 - P.A. CAREER
- 202 - COMM. DEVELOPMENT PROGRAM
- 203 - FAMU UNDERGRAD PROGRAM

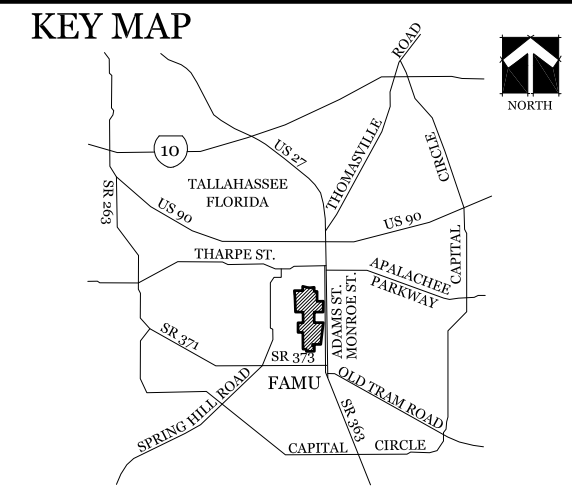
- 204 - A&S ELECTRONIC CLASSROOM
- 205 - SCHOOL OF ARCHITECTURE
- 206 - POLICE STORAGE
- 300 - BRAGG STADIUM
- 305 - GALIMORE-POWELL ATHLETIC FIELD HOUSE
- 315 - MULTI-PURPOSE GYMNASIUM
- 501-562 - PERRY-PAIGE BUILDING
- 601-604 - STUDENT UNION COMPLEX
- 605-608 - SOUTH PALMETTO BLDG A-D
- 609 - S. PALMETTO COMMONS BLDG-F
- 610 - S. PALMETTO COMMONS BLDG-E
- 701 - NEW D.R.S. GYMNASIUM
- 702 - NEW D.R.S. ADMIN. BUILDING
- 703 - NEW D.R.S. ELEMENTARY SCHOOL
- 704 - NEW D.R.S. CAFETERIUM
- 705 - NEW D.R.S. MIDDLE SCHOOL
- 706 - NEW D.R.S. HIGH SCHOOL



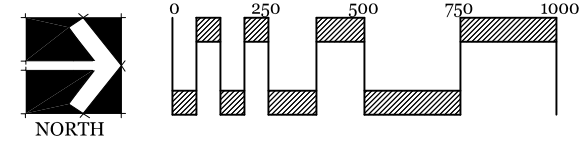
# EXISTING SEWER MAP (NORTH)

- LEGEND:**
- EXISTING SEWER LINE
  - EXISTING MANHOLE

SOURCE: FAMU WATER AND UTILITIES ANALYSIS, JANUARY 17, 2017 PREPARED BY GENESIS. SEE REPORT FOR ADDITIONAL INFORMATION.



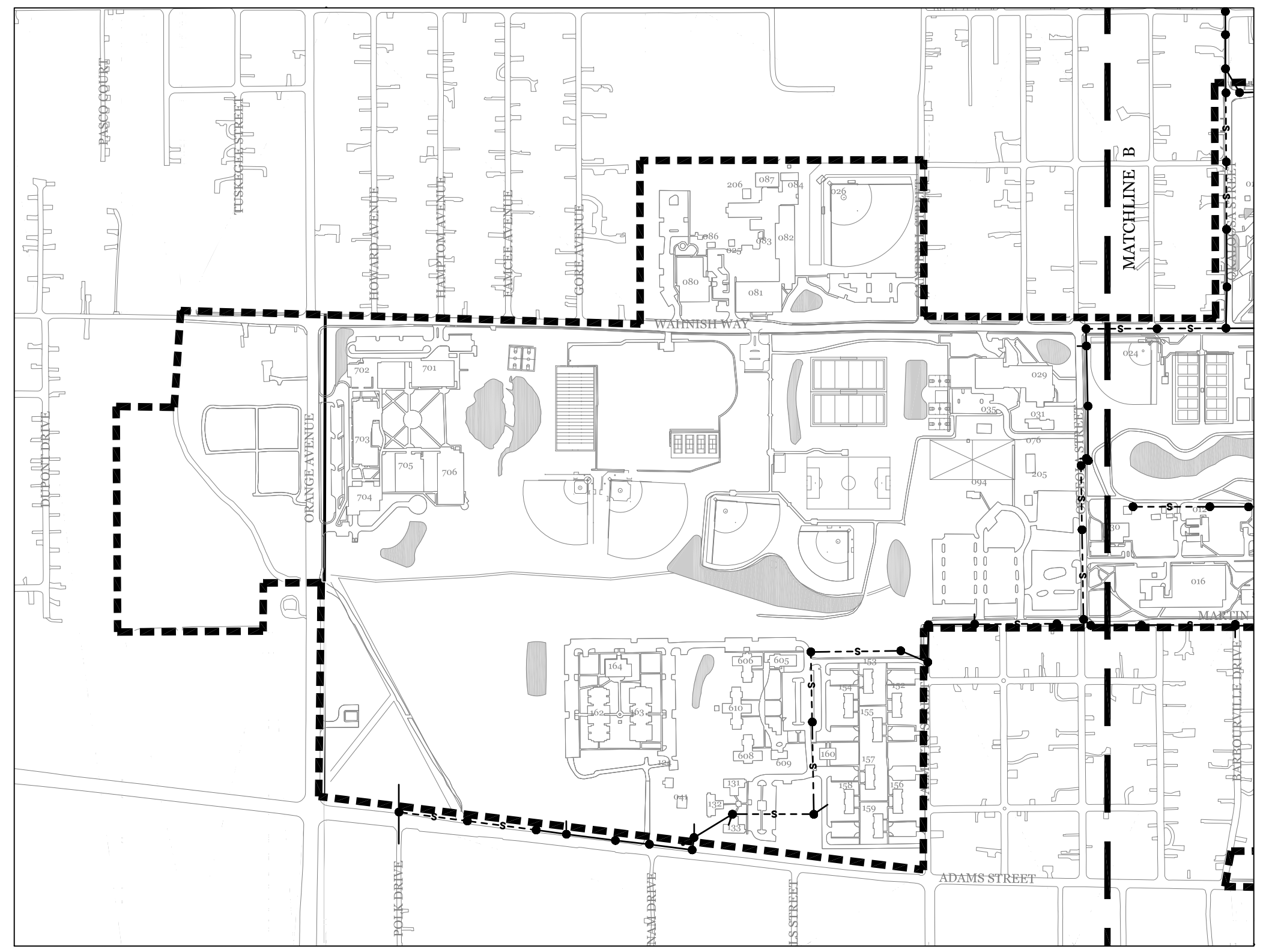
2015-2025 MASTER PLAN  
 INVENTORY & ANALYSIS  
**FLORIDA A&M UNIVERSITY**  
 TALLAHASSEE, FLORIDA  
 DATE: JANUARY 2018



# EXISTING SEWER MAP (SOUTH)

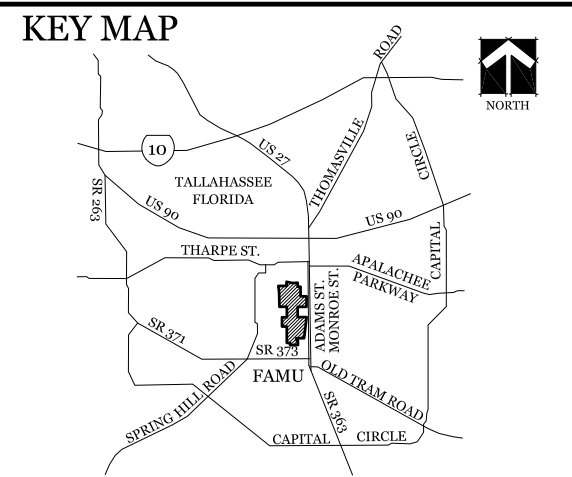


- |                                    |                                       |   |  |  |  |
|------------------------------------|---------------------------------------|---|--|--|--|
| 001 - LEE HALL                     | 022 - GATHER OFFICE & CLASSROOM       | 046 - CROPPER HALL                      | 073 - FOSTER-TANNER BAND BUILDING        | 103 - PHYSICAL PLANT STORAGE-A         | 204 - A&S ELECTRONIC CLASSROOM             |
| 002 - JACKSON DAVIS HALL           | 023 - L.S. BARTLEY ATHLETIC COMPLEX   | 047 - DIAMOND HALL                      | 074 - DYSON PHARMACY                     | 104 - PHYSICAL PLANT TRANSITION CENTER | 205 - SCHOOL OF ARCHITECTURE               |
| 003 - UNIVERSITY COMMONS           | 024 - UNIVERSITY SOFTBALL DUGOUT      | 048 - SAMPSON HALL                      | 075 - COLLEGE OF PHARMACY                | 111-114 - BENJAMIN BANNEKER BLDGS A-D  | 206 - POLICE STORAGE                       |
| 005 - N.B. YOUNG HALL              | 025 - HAZARDOUS STORAGE               | 049 - COLEMAN LIBRARY                   | 076 - SMALL ANIMAL LAB                   | 115-118 - PADDYFOOTE COMPLEX A-D       | 300 - BRAGG STADIUM                        |
| 006 - S.B.I. / SOUTH WING          | 026 - UNIVERSITY BASEBALL DUGOUT      | 050 - S.B.I. / EAST WING                | 078 - F&P                                | 124 - GIBBS COTTAGE                    | 305 - GALIMORE-POWELL ATHLETIC FIELD HOUSE |
| 007 - CARNEGIE CENTER              | 029 - RECREATION CENTER               | 052 - CENTRAL HEAT PLANT                | 079 - UNIVERSITY PARKING SERVICES(M)     | 131-133 - SCHOLARSHIP HOUSES           | 315 - MULTI-PURPOSE GYMNASIUM              |
| 008 - LUCY MOTEN                   | 030 - USDA TELECONFERENCE CENTER      | 054 - FOOTE / HILYER ADMIN. CENTER      | 080-082 - P.O.M. BUILDINGS A-C           | 134 - CHILDCARE CENTER                 | 551-562 - PERRY-PAIGE BUILDING             |
| 009 - WARE / RHANEY BUILDING       | 031 - DAIRY BARN AND WINERY           | 055 - JONES HALL                        | 083 - P.O. HAZARDOUS STORAGE-A           | 135 - D.R.S. HEALTH                    | 601-604 - STUDENT UNION COMPLEX            |
| 010 - TRACK & FIELD TOWER          | 032 - M.S. THOMAS INDUSTRIAL ARTS LAB | 056 - SCIENCE RESEARCH FACILITY         | 084 - P.O. HAZARDOUS STORAGE-B           | 136-151 - POLKINGHORNE VILLAGE APTS.   | 605-608 - SOUTH PALMETTO BLDG A-D          |
| 011 - ATHLETIC STORAGE BUILDING    | 034 - CONTINUING EDUC. CONF. CENTER   | 057 - CNTR FOR EQUITY & CULT. DIVERSITY | 085 - P.O. MECH. CHILLER                 | 152-160 - PALMETTO STREET APARTMENTS   | 609 - S. PALMETTO COMMONS BLDG-E           |
| 012 - GEORGE CONOLY GREENHOUSE     | 035 - UNIVERSITY BAND STORAGE         | 058 - HOWARD HALL                       | 087 - P.O.M. STORAGE                     | 161 - WILLIAM GRAY, JR. PLAZA          | 610 - S. PALMETTO COMMONS BLDG-F           |
| 013 - PRESIDENT'S HOUSE            | 036 - S.B.I. / WEST & NORTH           | 059 - GIBBS HALL                        | 088 - ATHLETICS ACADEMICS                | 162-164 - PALMETTO HOUSING PHASE III   | 701 - NEW D.R.S. GYMNASIUM                 |
| 014 - TUCKER HALL                  | 037 - CONTINUING EDUCATION            | 061-066 - OLD D.R.S.                    | 089 - LEARNING DEVELOPMENT EDUC. CENTER  | 165-167 - OLD D.R.S.                   | 702 - NEW D.R.S. ADMIN. BUILDING           |
| 015 - HONOR HOUSE                  | 038 - CENTRAL CHILLED WATER PLANT     | 067 - GENERAL CLASSROOM                 | 090 - (M)                                | 170 - STUDENT SERVICES CENTER          | 703 - NEW D.R.S. ELEMENTARY SCHOOL         |
| 016 - SCHOOL OF ARCHITECTURE       | 040 - SCHOOL OF JOURNALISM            | 068 - FOSTER-TANNER MUSIC CENTER        | 092 - TITTLE THREE-FGMP(M)               | 171 - PARKING GARAGE I                 | 704 - NEW D.R.S. CAFETERIUM                |
| 018 - MAIN GARAGE                  | 041 - UNIVERSITY ACTIVITIES CENTER    | 069 - FOSTER-TANNER CERAMIC CENTER      | 093 - UNIVERSITY PARKING SERVICES / INFO | 200 - EVENING AND WEEKEND COLLEGE      | 705 - NEW D.R.S. MIDDLE SCHOOL             |
| 017 - INTERNATIONAL LANGUAGE       | 042 - COUNSELING CENTER               | 070 - FOSTER-TANNER ART CENTER          | 094 - FOSTER-TANNER OBSERVATION TOWER    | 201 - D.R.S. CAREER                    | 706 - NEW D.R.S. HIGH SCHOOL               |
| 019 - ENVIRONMENTAL SCIENCES INST. | 043 - MCGUINN HALL                    | 071 - GORE EDUCATION COMPLEX            | 096 - S.B.I. (M) I                       | 202 - COMM. DEVELOPMENT PROGRAM        |  |
| 021 - GATHER GYMNASIUM             | 044 - TRUTH HALL                      | 072 - D.R.S. GYM                        | 097 - S.B.I. (M) II                      | 203 - FAMU UNDERGRAD PROGRAM           |  |



- LEGEND:**
- S- EXISTING SEWER LINE
  - EXISTING MANHOLE

SOURCE: FAMU WATER AND UTILITIES ANALYSIS, JANUARY 17, 2017 PREPARED BY GENESIS. SEE REPORT FOR ADDITIONAL INFORMATION.



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