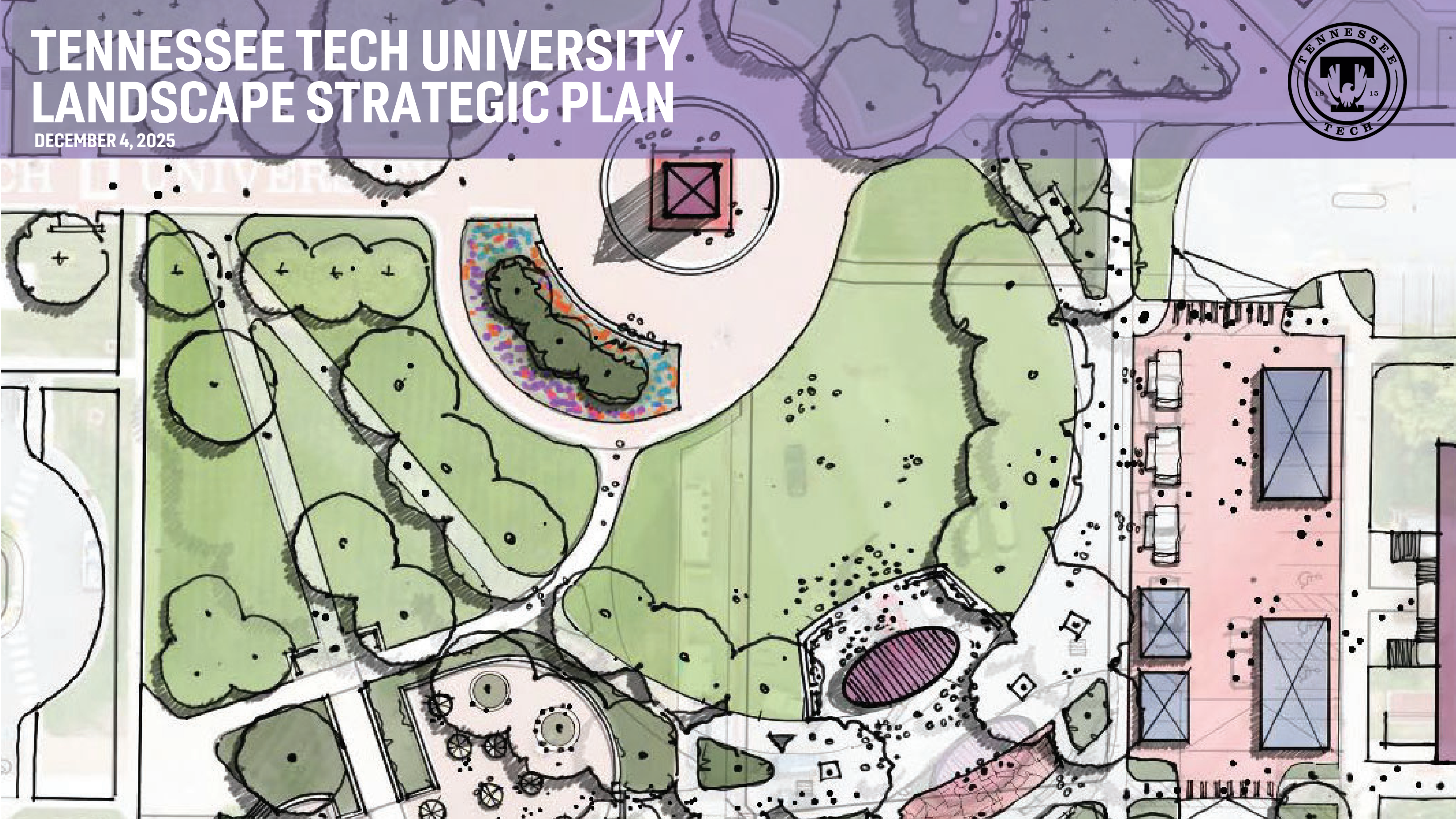
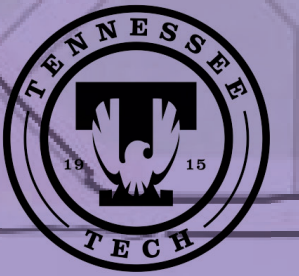


# TENNESSEE TECH UNIVERSITY LANDSCAPE STRATEGIC PLAN

DECEMBER 4, 2025



GUIDELINES - Components

PLANTING GOALS - NEW PROJECTS

TTU CAPITAL PROJECT PLANTING GOALS						Updated 9.28.25	
Project: TEST							
Date: SEPTEMBER 2025							
OVERALL PROJECT CALCULATIONS							
Project Area (project boundary with building)			1	acres			
Building Area (subtract)		(-)	0.25	acres			
Adjusted Project Area			1.25	acres			
Parking Lot (subtract)			0.5	acres	(x10)		5
Required Project Planting (Open Space)			0.75	acres	(x30)		22.5
Existing Trees - 1 Credit per 8" DBH							4
Total Project Tree Requirements							23.5
Total Trees Provided							60
TREE PLANTING TARGETS							
Canopy Trees:		Minimum Required %	Trees Provided		% Provided		
Canopy Strees Required (Percent of Total Tree Planting)		65%	35		70%		
- Native Trees (percent of canopy trees)		60%	25	(x.60)	71%		
- Evergreen Trees (percent of canopy trees)		25%	9	(x.25)	26%		
Medium and Small Trees:							
Total Medium and Small Trees			15				
- Native Trees (percent of canopy trees)		50%	10	(x.50)	67%		
- Evergreen Trees (percent of canopy trees)		25%	5	(x.25)	33%		
FOUNDATION PLANTING TARGETS							
Shrub Requirements:		Required %	Linear Feet of Foundation	Linear Feet Provided		% Provided	
Building Foundation Planting Coverage Area		50%	850	500		59%	
(Hardscape areas against the building are excluded)							
Note:							
All mechanical and operational areas are to be screened by evergreen shrubs.							
Plant materials are to meet the TTU recommended plant pallette or approved by TTU after review.							

PLANTING GOALS - EXISTING CAMPUS

CAMPUS OPEN SPACE PLANTING TARGETS												Updated 9.28.25	
PRIORITY AREA	ACREAGE		PARKING AND AVAILABLE OPEN SPACE		AREA TREES		SMALL & MEDIUM TREES		CANOPY TREES		PROPOSED TREES		Total Target Trees
	(Acres +/- 0.01)	(Acres +/- 0.01)	(Acres +/- 0.01)	(Acres +/- 0.01)	(Trees +/- 10)	(Trees +/- 10)	(Trees +/- 10)	(Trees +/- 10)	(Trees +/- 10)	(Trees +/- 10)	(Trees +/- 10)	(Trees +/- 10)	
PARKING LOT	7.58	0.84	6.74		202.2	8.4	0	13	13	68.16	128.44	187.6	
	11.15	1.83	9.32		279.8	18.3	102	86	188	38.465	71.435	109.9	
	18.97	6.39	12.58		377.4	63.9	63	76	141	105.955	195.055	300.9	
	12.36		12.36		370.8	0	5	66	71	104.23	193.57	297.8	
	27.4		27.4		82.2	0	10	33	43	15.87	29.53	45.4	
PARKING LOT	15.54	2.31	13.23		388.9	23.1	179	187	366	25.9	48.1	74	
	6.13	0.63	5.5		165	6.3	23	52	75	33.705	62.595	96.3	
	9.74	6.48	3.26		97.5	64.9	3	9	12	52.64	97.76	150.4	
	5.41	3.8	1.61		54.3	3.8	2	8	10	27.755	52.545	80.3	
	0.7	0.3	0.27		8.1	0.3	0	0	0	3.886	7.216	11.1	
PARKING LOT	15.8	14.16	1.64		43.5	14.16	11	39	50	47.25	87.75	135	
	63.4	45.37	18.03		540.9	453.7	165	343	508	170.31	398.29	568.6	
	8.82	4.17	2.85		79.5	41.7	15	3	18	38.12	67.08	105.2	
	3.37	0.7	2.67		80.1	0.7	8	51	60	9.486	17.616	27.1	
	9.08	2.47	6.61		187.7	2.47	43	17	60	59.84	105.56	165.4	
PARKING LOT	1.27		1.27		38.1	0	1	3	4	11.935	22.865	34.8	
	1.58		1.58		48.8	0	0	0	0	16.38	30.42	46.8	
	5		5		50	0	15	0	15	13.35	24.75	38	
	10.6		10.6		106	0	10	0	10	33.6	62.4	96	
CAMPUS TARGETS:		CAMPUS TREE TARGET		EXISTING CAMPUS TREES		PROPOSED TREE ADDITIONS							
300.8		862.5		668		671		1630		621.836		1528.286	
2346.1													
107 Trees Per Acre in Open Space Areas													
65% Minimum Canopy Trees per Acre													
10 Trees Per Acre for Parking Lot Locations													

PLANTING GUIDELINES  
Irrigation, Planting, Topsoil, Tree Protection,  
Preferred Vendor List



BUILDING ENVELOPE DESIGN GUIDELINES  
APPENDIX 3

PART 1 - GEN

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BUILDING ENVELOPE DESIGN GUIDELINES  
APPENDIX 3

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BUILDING ENVELOPE DESIGN GUIDELINES  
APPENDIX 3

PART 1 - GENERAL

1.01 INTRODUCTION

- A. This is a guideline on the Owner's minimum standards for:

- 1. Masonry
- 2. Copings
- 3. Cavity wall flashings & sealants
- 4. Shingle roofs
- 5. Metal roof panels
- 6. Modified bituminous membrane roofing
- 7. Elastomeric membrane roofing

- B. This is not a specification, and should not be inserted as-is into specifications. It is provided in a specification format in order to facilitate its use by the Designer. Designers should translate requirements consistent with this guideline into their specifications.

1.02 QUALITY CONTROL IN ROOFING

- A. Products alone do not make a good roof. A good roof requires: appropriate design; suitable materials (vapor retarders, insulation, fasteners, membranes, flashings, accessories, perimeter metal); an adequate budget; a qualified, well-financed, trained applicator knowledgeable and experienced with the system specified; field quality assurance; and a solid relationship between manufacturer and applicator.
- B. Minimum degree of experience for a qualified roofing installer should be specified.

- C. The roofing installer, whether the contractor or a subcontractor, and the manufacturer shall work together and be considered as one and the same certifying and providing:
- 1. Roofing products for the purpose of designing, developing and marketing a complete roofing system.
- 2. Recommendations, specifications, and details for the roofing system materials and installation.
- 3. Training for and approval of applicators of the roof system.
- 4. Technical assistance to applicators during the application of the roof.
- 5. Approval and preparation of shop drawings for the roof system.
- 6. A qualified technical representative employed by the Manufacturer for the final inspection, and all inspections required by the Roofing System Warranty.
- 7. All materials used with the roof system shall be approved by or purchased from the roof manufacturer.

- D. Require submission of the following information for Designer to evaluate in judging whether a product will be an approved equal:
- 1. A list of approved applicators indicating name, address, phone number, and year first licensed as an applicator.
- 2. Application form, required by the Manufacturer, establishing the past experience, reputation, and financial stability of the roofing installer.
- 3. Training session(s) taught by the manufacturer and certification that the installers have attended and passed the training program.
- 4. Indication that the roofing installer has displayed adequate experience and knowledge to be licensed by the manufacturer to install the roofing system. The license shall be renewed annually. The on-the-job superintendent shall be licensed as a qualified installer.

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August 2018 TTU CPP page 1 of 6

Building Envelope Design Guidelines  
Appendix 3 - 1

HARDSCAPE GUIDELINES

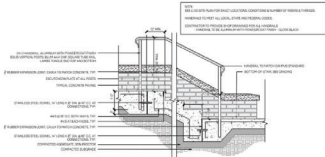
DESIGN STANDARDS

STAIRS

Concrete steps with a steel edge provide a durable and refined solution for campus environments, especially in high-traffic or outdoor areas. The concrete offers long-lasting strength, while the steel edging reinforces the step profile, protecting against wear and chipping over time. This combination enhances safety by improving visibility and traction, and adds a clean, modern detail that complements campus architecture. Ideal for building entrances, amphitheaters, and landscape transitions, these steps balance functionality with a polished appearance.



Typical Stair  
Concrete Color:  
Riser Angle:



Typical Detail

TENNESSEE TECH UNIVERSITY 2025 LANDSCAPE STRATEGIC PLAN 12

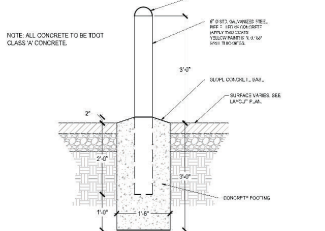
DESIGN STANDARDS

BOLLARD - Protective

To safeguard buildings and pedestrian areas from potential vehicular impact, protective-use bollards shall be installed at strategic locations where vehicle conflict is a concern. These bollards serve a dual purpose: providing robust physical protection while maintaining visual harmony with the surrounding built environment.



Typical Bollard  
Color: Match Surrounding Architecture



Typical Detail

TENNESSEE TECH UNIVERSITY 2025 LANDSCAPE STRATEGIC PLAN 13

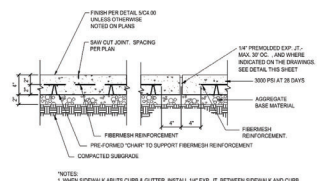
DESIGN STANDARDS

CONCRETE WALKWAY - Light Duty

To promote a cohesive, accessible, and sustainable pedestrian environment across campus, all walkways shall be designed with consistent materials, colors, and detailing. These pathways serve as vital connectors between academic buildings, residential areas, and campus amenities, and their design plays a key role in shaping the overall campus experience.



Typical Concrete Walkway  
Color: Gray  
Layout: Window Frame with Light Broom Finish



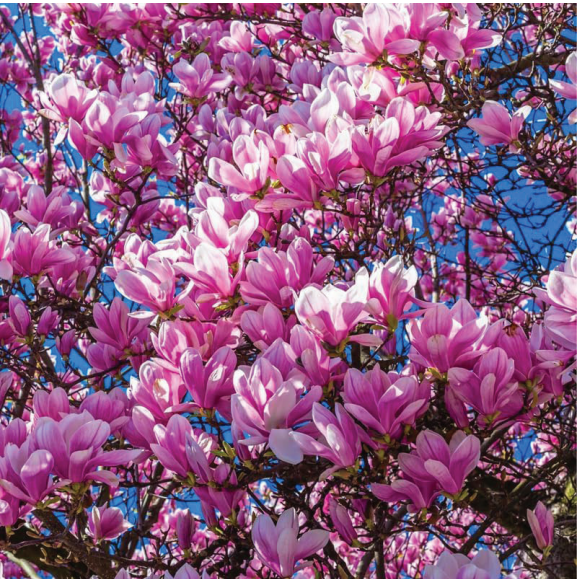
Typical Detail

TENNESSEE TECH UNIVERSITY 2025 LANDSCAPE STRATEGIC PLAN 15





LANDSCAPE IDENTITY





# LANDSCAPE - Campus Improvement Zones

## TREE ANALYSIS - Campus Improvement Zones

The campus tree inventory has enabled the landscape to be organized into five distinct zones of planting intensity, each reflecting a different level of urgency, opportunity, and strategic focus:

### CAMPUS LANDSCAPE LEGEND:

#### LEVEL 1 - Succession Planting

Successional Planting Zones: These encompass historic and well-established areas of campus where the primary goal is to preserve existing canopy and gradually expand coverage. Tree replacement and maintenance are carefully managed to uphold landscape character and continuity.

#### LEVEL 2 - Current or Recent Improvements

Current Improvement Zones: These areas include new and recently completed capital projects. Plantings here are designed to reinforce recent development and align with updated landscape guidelines.

#### LEVEL 3 - Future Improvement Zones

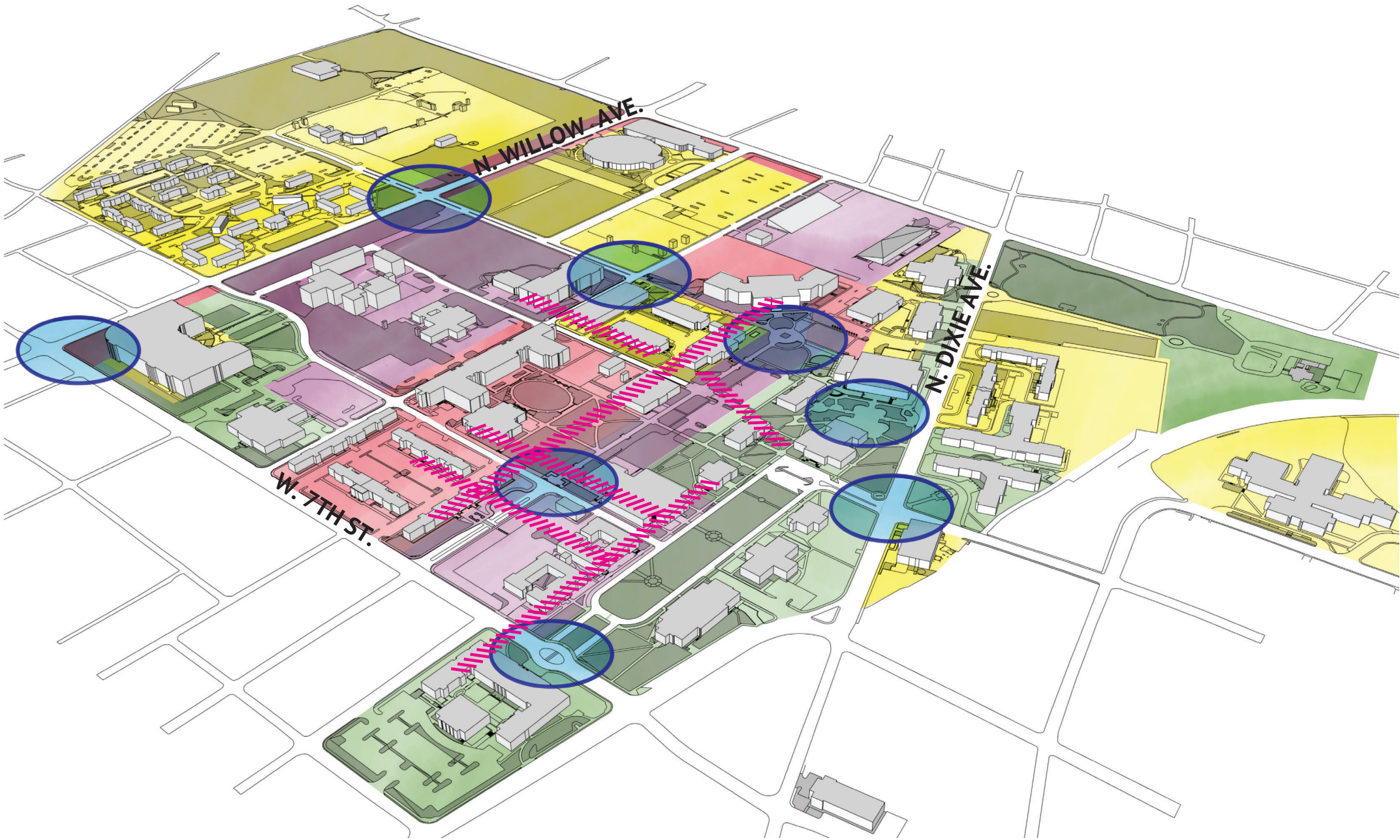
Future Improvement Zones: Representing lower-priority areas, these zones offer long-term opportunities for canopy enhancement. Planting strategies may involve slower implementation rates and smaller tree selections to allow for gradual growth.

#### LEVEL 4 - Priority Improvement Zones

Priority Zones: These are high-impact areas where targeted tree planting can quickly improve canopy coverage and visual identity. Due to their visibility and strategic location, they are central to near-term landscape goals.

#### LEVEL 5 - Intense Improvement Zones

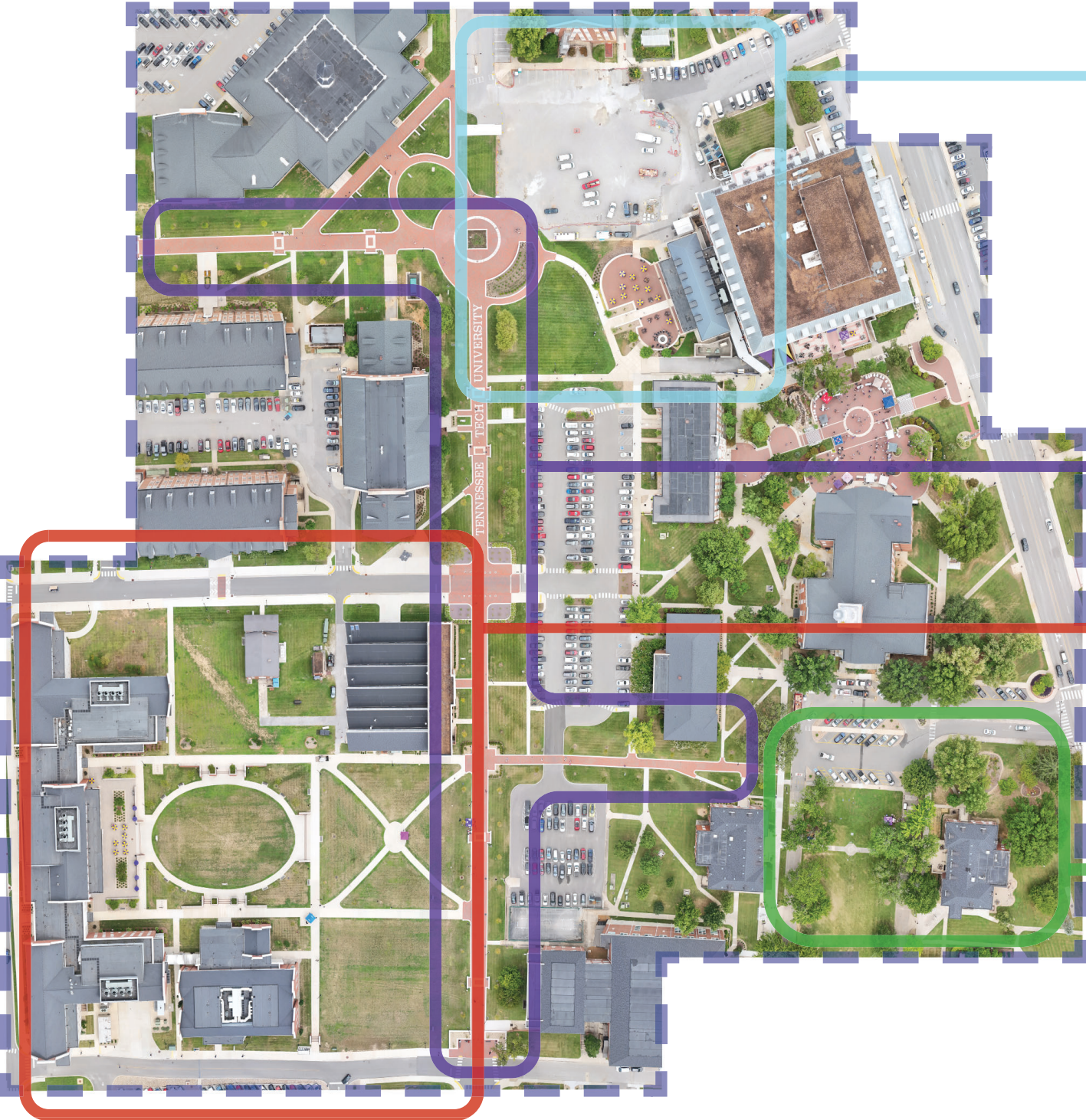
Intense Improvement Zones: These zones require specialized landscape interventions, often tied to unique site conditions or signature campus projects. Tree planting in these areas is highly curated to achieve specific design or functional outcomes.





# LANDSCAPE - Comparison Areas

## CENTRAL CAMPUS - DEVELOPMENT



**ASPIRATIONAL PROJECTS**

**CURRENT IMPROVEMENTS**

**PRIORITY IMPROVEMENTS**

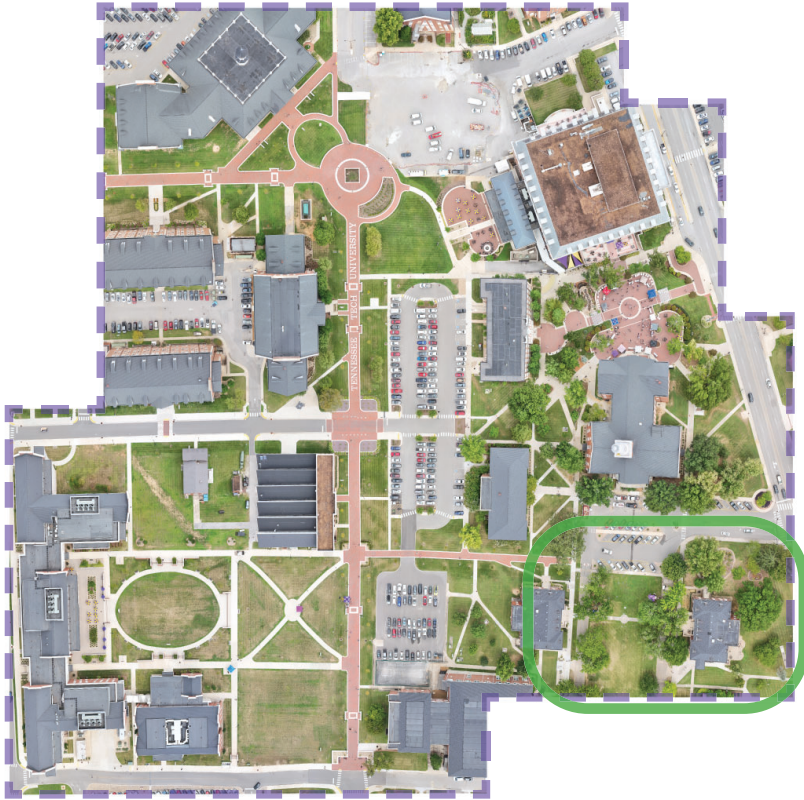
**PRECEDENT CANOPY**





# LANDSCAPE - Canopy Targets

## PRECEDENT CANOPY



SITE COMPARISON



THE QUAD - North End  
31.25 TPA (1.28ac / 41 trees) - Majority Canopy Trees



THE QUAD - South End  
32.25 TPA (.62ac / 20 trees) - Majority Canopy Trees



TTU - HISTORIC CORE



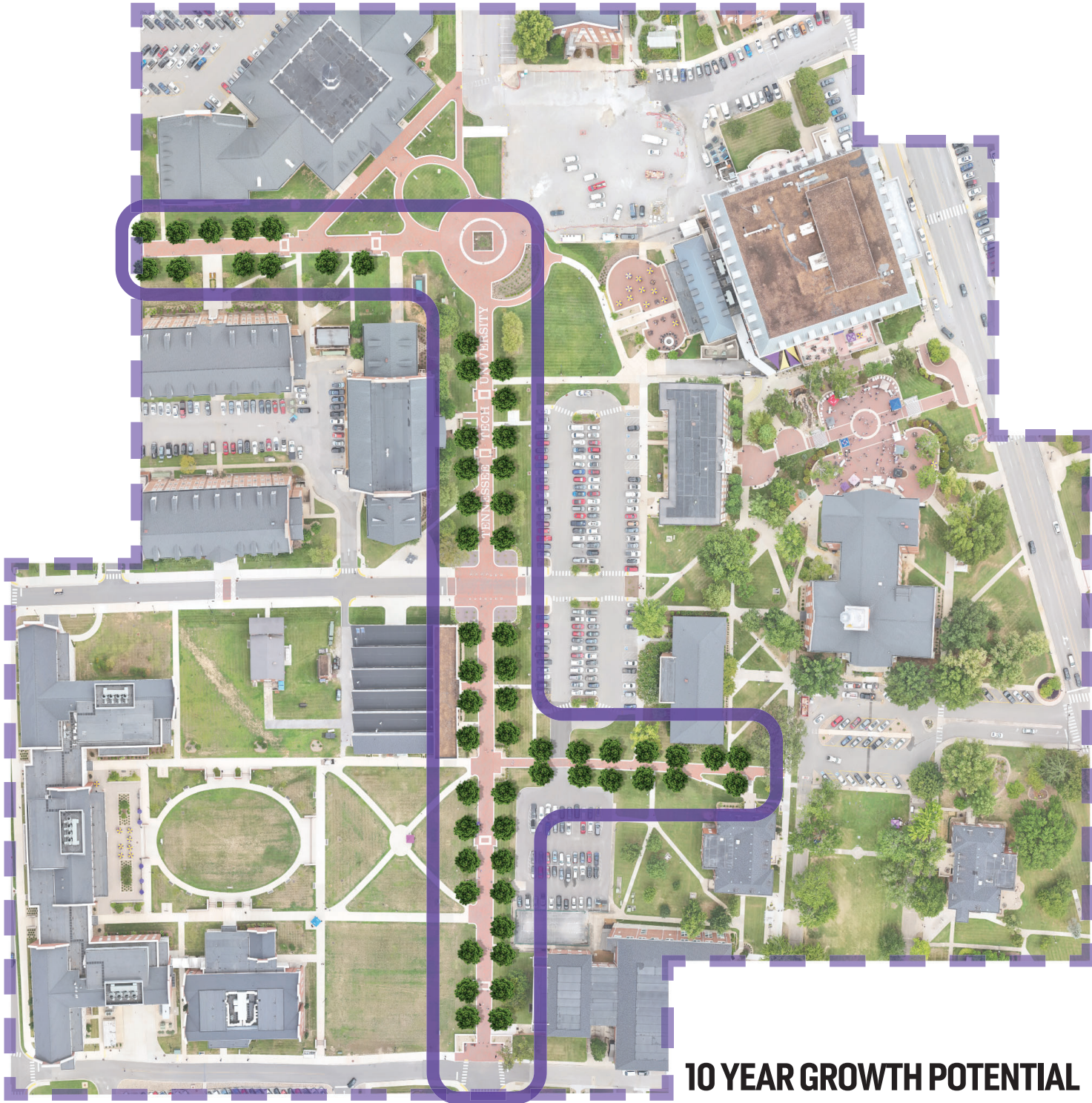
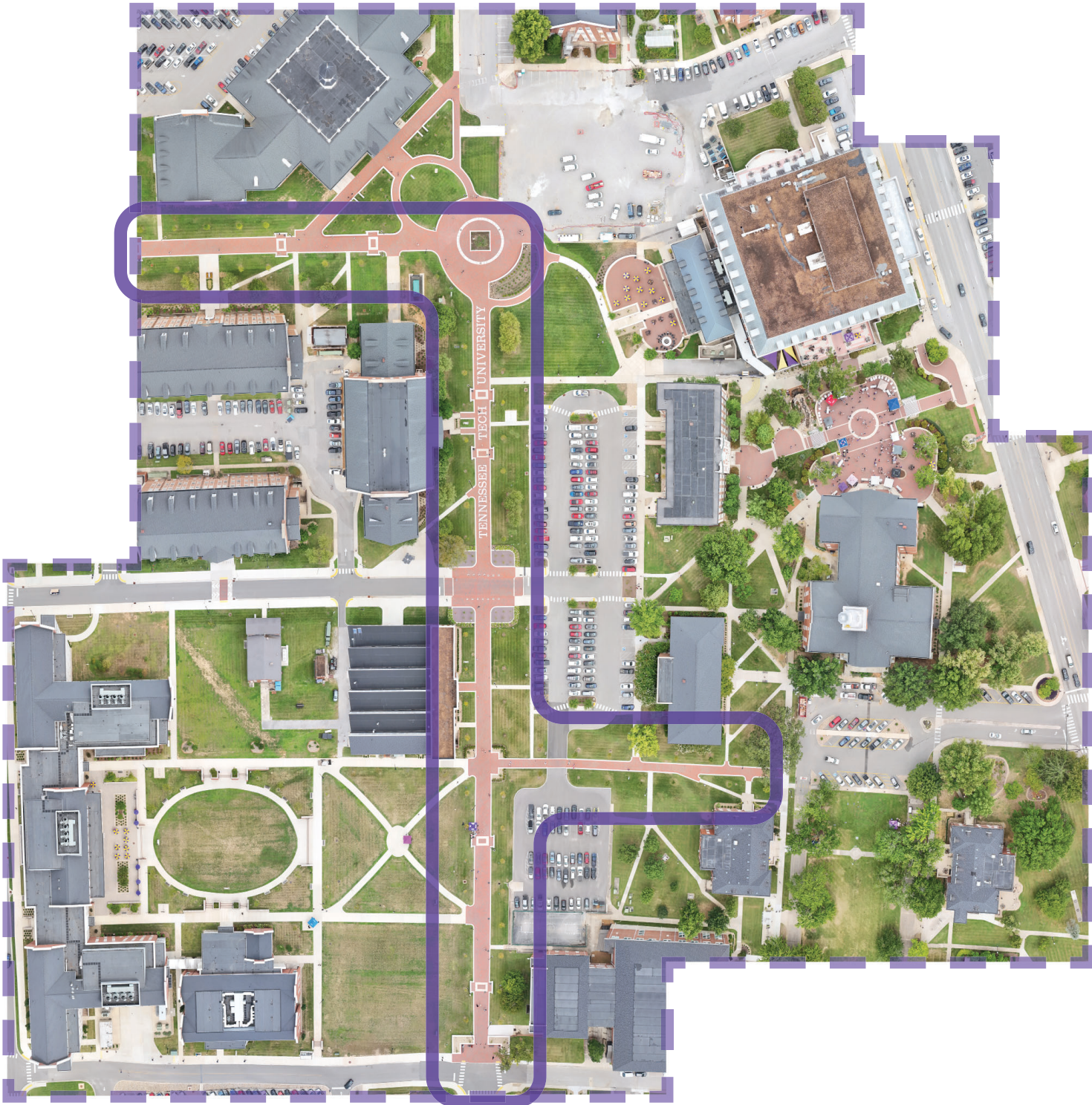
DUKE UNIVERSITY - WEST CAMPUS - 34 Trees Per Acre





# LANDSCAPE - Canopy Targets

## CURRENT IMPROVEMENTS



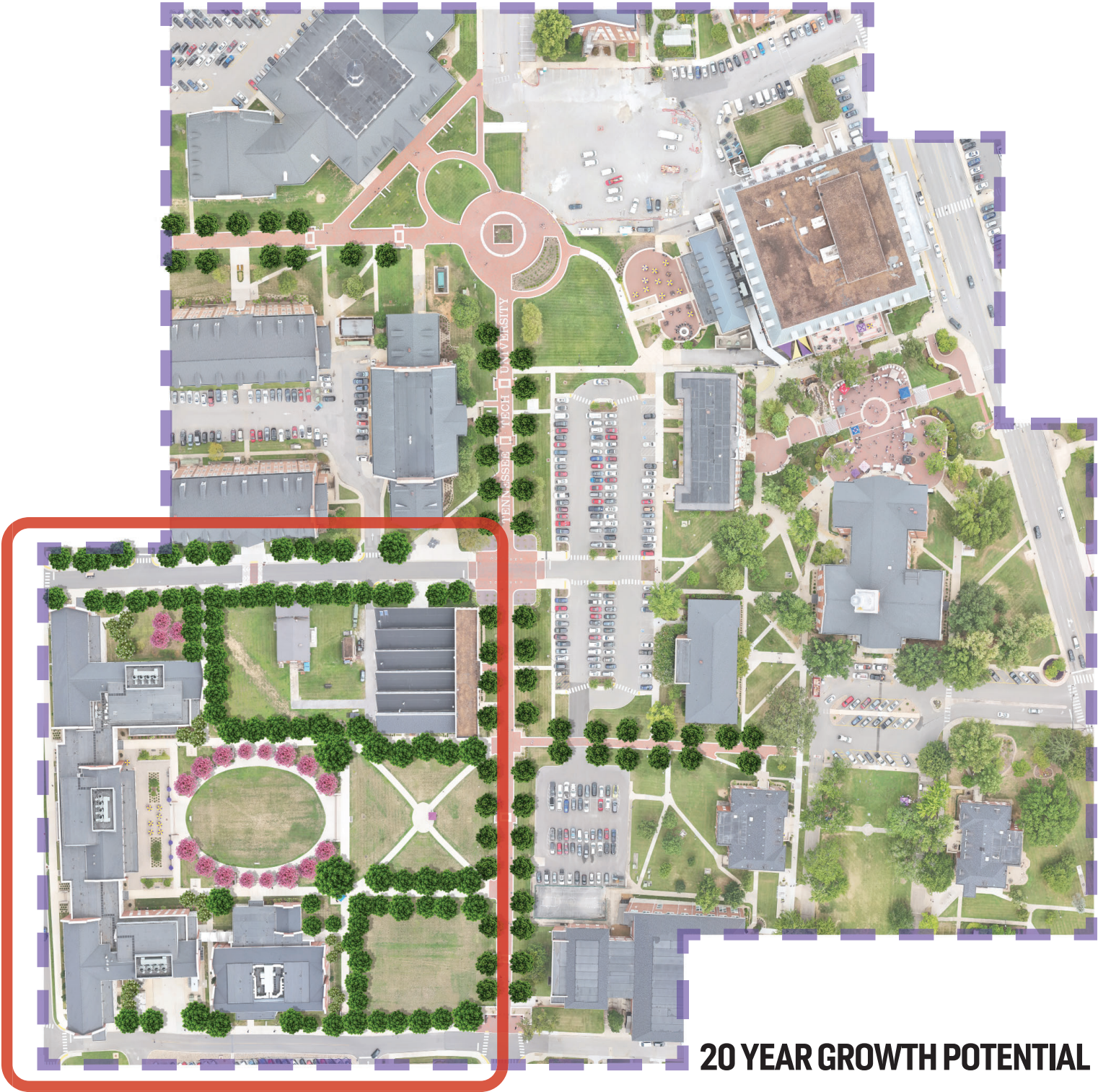
**10 YEAR GROWTH POTENTIAL**





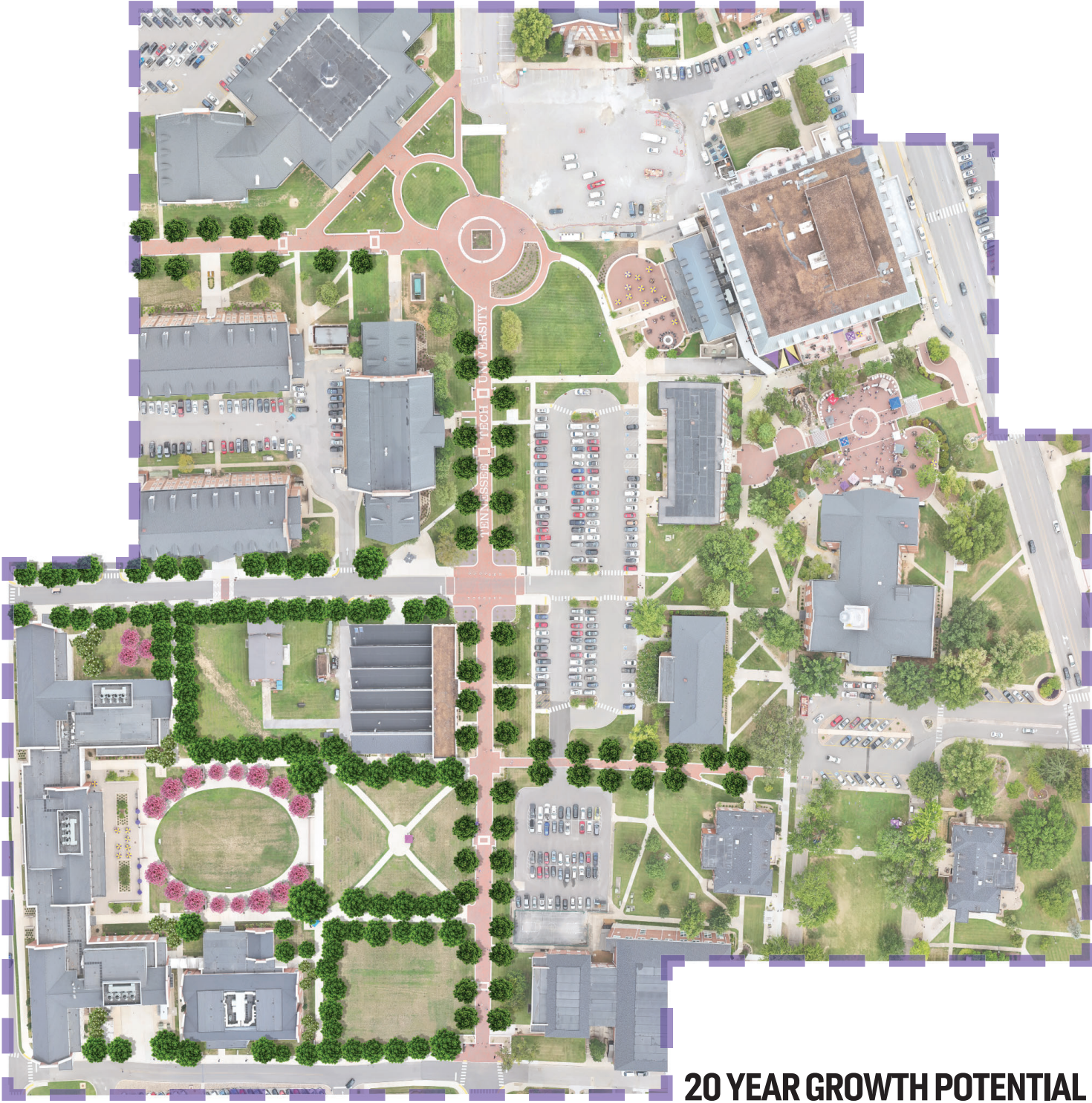
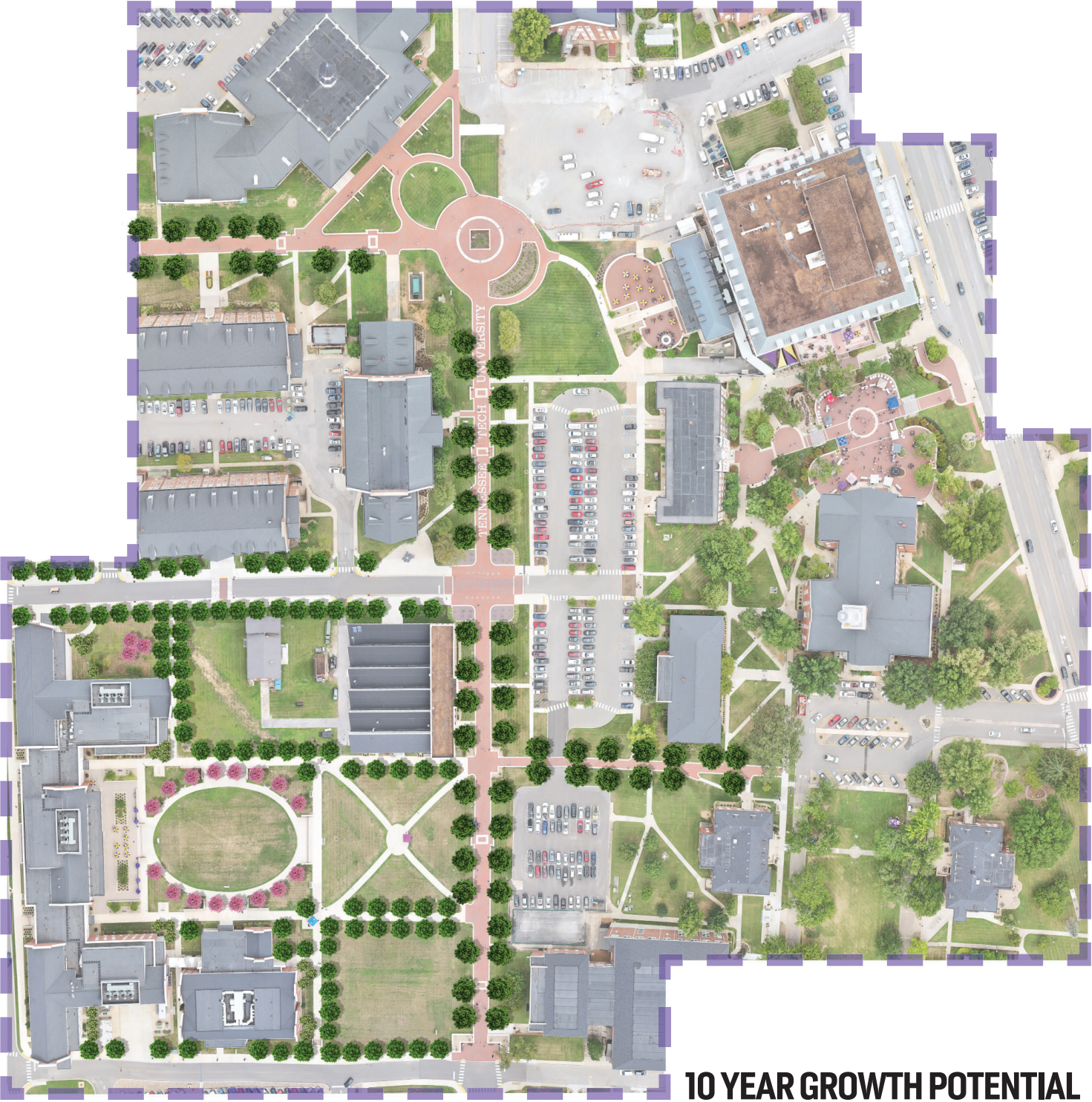
# LANDSCAPE - Canopy Targets

## PRIORITY IMPROVEMENTS





# LANDSCAPE - Canopy Targets





ASPIRATIONAL PROJECTS - Foster Site





# ASPIRATIONAL PROJECTS - Foster Site



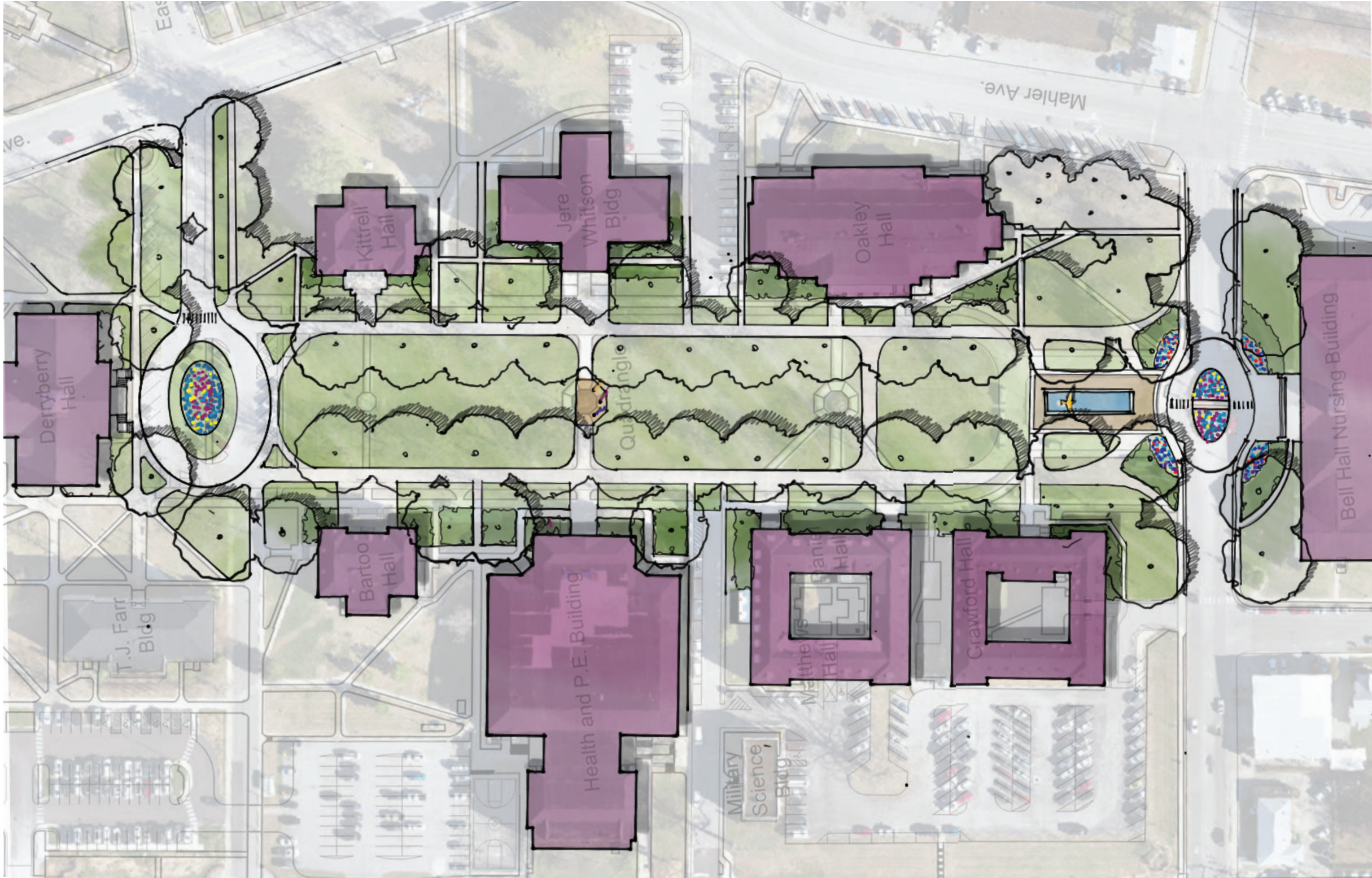


# ASPIRATIONAL PROJECTS - 7th & North Willow



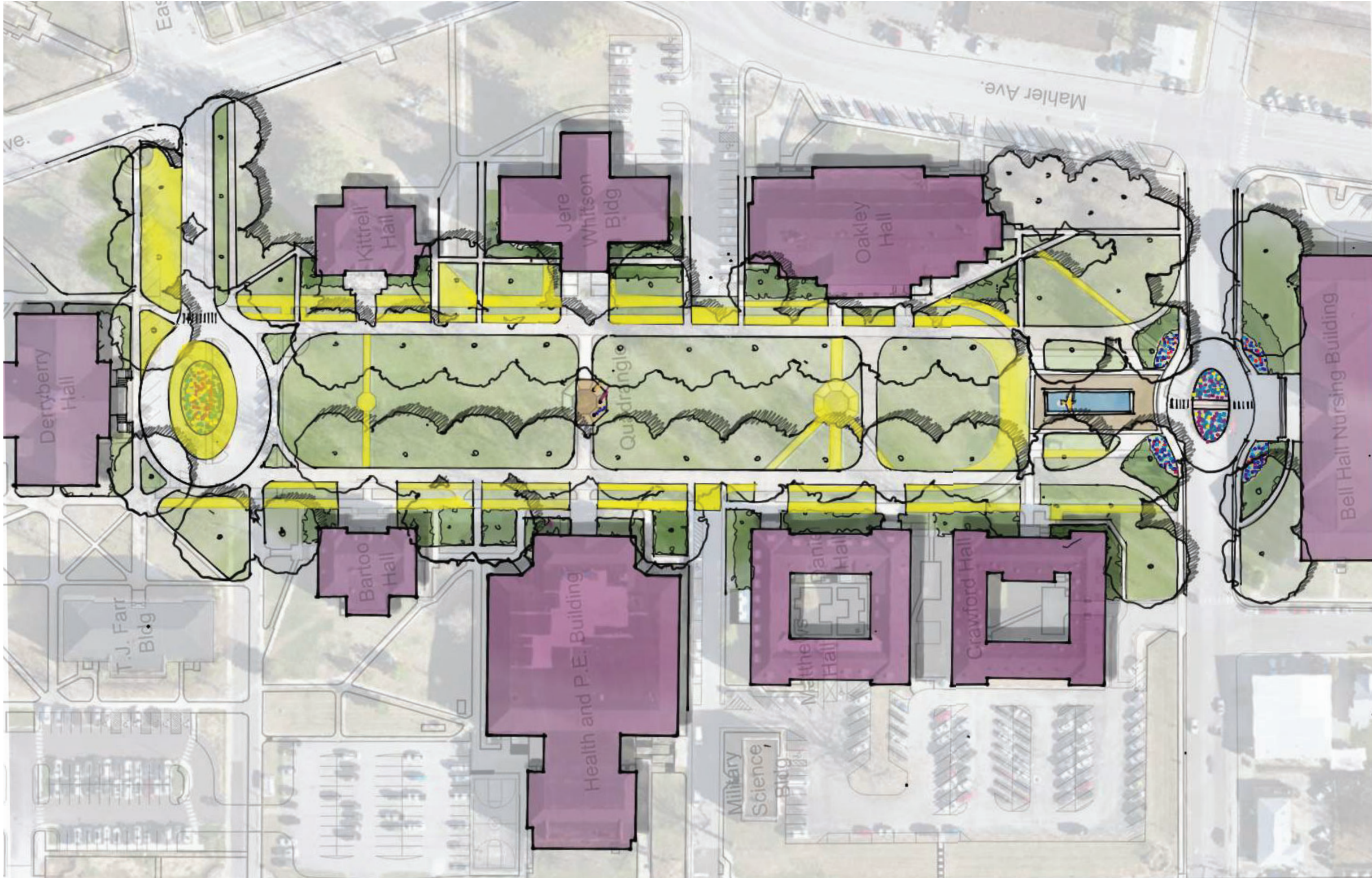


# ASPIRATIONAL PROJECTS - The Quad





# ASPIRATIONAL PROJECTS - The Quad





# QUESTIONS AND COMMENTS