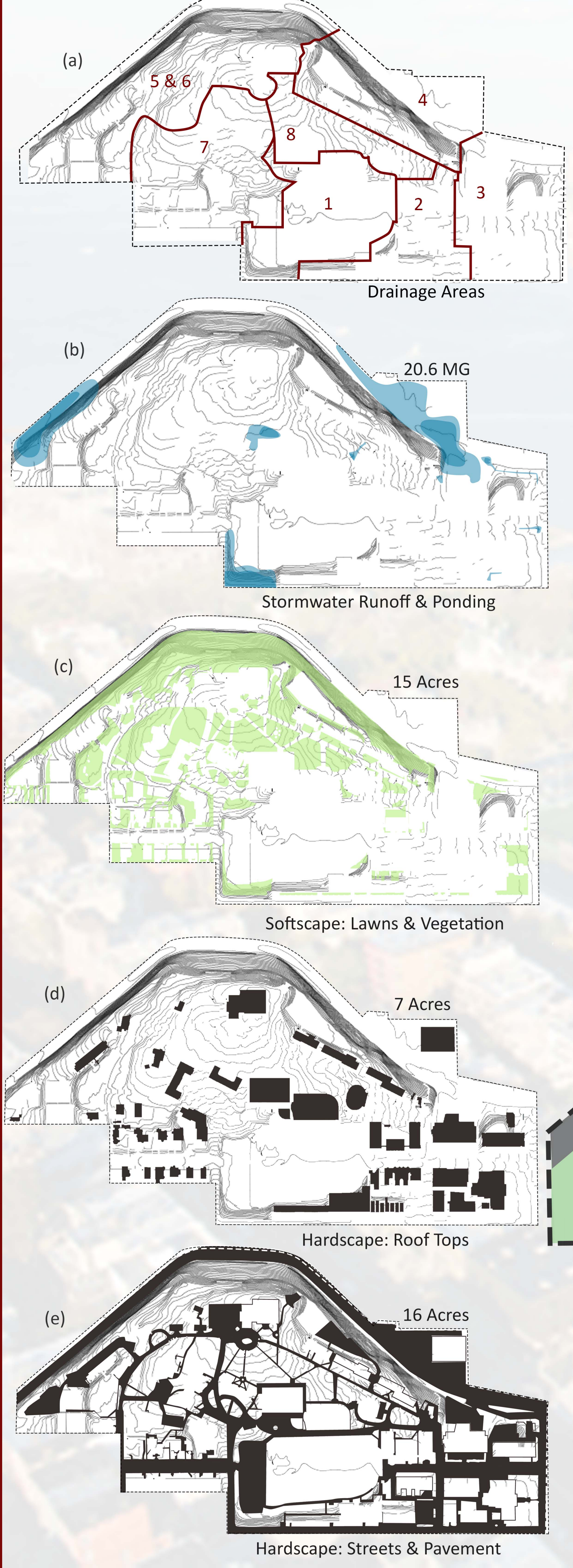


Figure 2: Campus Site Analysis
Campus was analyzed by land type, ponding locations, and delineation. (a) Drainage Map; (b) Ponding Map; (c) Softscape Map; (d) Roofscape Map; (e) Hardscape Map



Closing Phase
Living Laboratory Transformation

Evaluate long term effectiveness and sustainability for future improvements. Benefit from research opportunity, classroom learning, and community relations.

Execution Phase
Master Plan Integration & Refinement

Incorporate master plan within proposed 10 year campus plan. Installation of master plan GI.

Design Phase
GI Master Plan Modeling

SWMM and WinSLAMM runoff and pollutant mapping. Expected benefits and cost analysis.

Planning Phase
Data Collection & Stakeholder Surveying

Focus on efficient and resilient GI. Raise stakeholder awareness and education.

Initiation Phase
Project Scope

Establish The RainWorks design team. Define project purpose.

Figure 4: Living Laboratory Phase Plan



- 1. Griffith
- 2. McLean
- 3. EAS
- 4. Babbio Center
- 5. Burchard
- 6. Carnegie
- 7. Lieb
- 8. River Apt.
- 9. Altorfer
- 10. Rocco
- 11. Annex
- 12. Nicoll's Lab
- 13. Davidson Lab
- 14. MPK
- 15. Gatehouse
- 16. Davis Hall
- 17. Hayden Hall
- 18. Jacobus
- 19. Walker Gym
- 20. Schafer Gym
- 21. Library
- 22. Palmer Hall
- 23. Howe
- 24. RAC
- 25. Alexandria House
- 26. Humphrey's Hall
- 27. Jonas Hall
- 28. CPH
- 29. President's House
- 30. Pollara House
- 31. Pond House

Figure 1: Campus Map

Stevens Institute of Technology, The Innovation University, is an interdisciplinary, student-centric, entrepreneurial environment seeking to advance frontiers of science and leverage technology to confront challenges. Stevens' mission is to inspire, nurture, and educate leaders of tomorrow in global altering technologies. The RainWorks Team was established at Stevens to address the need and desire for green infrastructure on campus. The Team developed a stormwater runoff mitigation plan, otherwise known as the Living Laboratory master plan. The Living Laboratory extends beyond the benefit of urban runoff control. The transformation of campus will present an immeasurable addition to both campus life and community. The benefit to student research, classroom learning, and community education will further advance Stevens as a leader in urban stormwater management.

8th & Hudson Street MPK Lawn Babbio Patio Sinatra Drive Library Lawn 5th & River Street



Figure 3: Campus Problem Site Photos
In total six problem areas were identified as primary concerns for campus runoff and ponding. All areas experience heavy use for campus events and student recreational activity. All problems create unaesthetic appearances and most cause hazardous conditions.