

Contents

I. Proposed City of Ithaca Water Tank at the Site of the Proposed University Avenue Parking Lot	1
Summary	1
Project Need and Benefit	2
Program and Operations	2
Water Tank Design Criteria	3
Description of Proposed Modifications to the University Avenue Parking Lot	5
Water Tank Alternatives	5
1.0 Alternative to the Water Tank	5
1.1 Connection to Cornell University Water Lines	5
2.0 Alternative Locations for a Water Tank	8
2.1 Alternative Location at LakeView Cemetery	8
2.2 Alternative Site A: Corner of University Avenue and Lake Street	8
2.2.2 Detailed Discussion of the Alternative A.1	12
2.2.3 Description of A.1 Site Plan	12
2.2.4 Potential Significant Impacts of University Avenue/Lake Street Location	13
2.3 Alternative Site B: Vicinity of the Tennis Courts	35
2.3.1 Detailed Discussion of Alternative B.1	36
2.4 Alternative Site C: West of 115 Llenroc Court	46
2.4.1 Detailed Discussion of the C.1 Alternative	46
2.4.2 Description of C.1 Site Plan	46
2.4.3. Potential Significant Impacts of the Site West of 115 Llenroc Court	46
2.5 Alternative Site D: West of 660 Stewart Avenue	50
2.5.1. Description of Alternative Site Plan	50
2.5.2. Potential Significant Impacts of Fully Buried Tank West of 660 Stewart Avenue	50
2.6 Construct a Smaller Tank	54
2.7 Pump House	54
3.0 Construction Impacts	54
3.1 Description of Construction Staging	54
3.2 Construction Impacts to Stormwater	58
3.3 Construction Impacts to Air Quality	58
3.4 Construction Impacts to Noise	58
3.5 Construction Impacts to Traffic and Parking	58
3.6 Construction Impacts to Pedestrians and Cyclists	58

List of Figures

I. Proposed City of Ithaca Water Tank at the Site of the Proposed University Avenue Parking Lot

- Figure 1: Modified University Avenue Parking Lot Plan
- Figure 2: Sections Through the Modified University Avenue Parking Lot
- Figure 3: Possible Water Tank Locations
- Figure 4: LakeView Cemetery Site
- Figure 5: University Avenue Block - Potential Water Tank Locations
- Figure 6: Site A.1 - Conceptual Site Plan
- Figure 7: Site A.1 - Site Section
- Figure 8: Historic Resources on the University Avenue Block Area
- Figure 9: Typical Water Tank
- Figure 10: Water Tank Covered With Ivy
- Figure 11: Visual Assessment - Viewer Locations
- Figure 12: View 1: View From University Avenue / Lake Street Intersection Looking East
- Figure 13: View 2: View From 600 University Avenue Looking South (From North Side of University Avenue)
- Figure 14: View 3: View From Von Cramm Looking West
- Figure 15: View 4: View From 660 Stewart Looking North
- Figure 16: View 5: View from Kahin Center Looking North
- Figure 17: View 6: View from Kahin Center Lawn Below Wall Looking North
- Figure 18: View 7: View from 412 University Avenue Looking Northeast
- Figure 19: View 8: View from 512 University Avenue Looking East
- Figure 20: Site B.1 - Conceptual Site Plan
- Figure 21: Site B.1 - Site Section
- Figure 22: View 9: View From Llenroc Court/Kahin Center Looking Southwest
- Figure 23: View 10: View From Cayuga Lodge Looking West
- Figure 24: View 11: View From Llenroc Looking Northeast
- Figure 25: View 12: View From Cornell Avenue Looking East
- Figure 26: Site C.1 - Conceptual Site Plan
- Figure 27: Site C.1 - Site Section
- Figure 28: Site D.1 - Conceptual Site Plan
- Figure 29: Site D.1 - Site Section
- Figure 30: Site Section at Pump House
- Figure 31: Site A.1 Staging Area
- Figure 32: Site B.1 Staging Area

Appendices

- A. Conceptual Basis Design for the Water Tank
- B. GreenScreen Product Information
- C. Archaeological Resources