Institutional Master Plan
2022

Campus Design and Facility Development

July 2022
1 Mission & Planning Process
2 Existing Conditions Overview
3 Long Term Vision
4 Institutional Needs
5 10 Year Development Envelopes
Introduction

CMU Team
Jen Beck, Project Manager*
Don Carter, Senior Advisor
Ralph Horgan, Assoc Vice President*
Megan Pierce, Project Associate
Bob Reppe, University Architect*
*presenting to Planning Commission

Urban Design Consultant – UDA
Eric Osth
Ashleigh Walton

Mobility Consultant – GAI Consultants
Rich Krajcovic
Todd Wilson

Sustainability – evolveEA
Elijah Hughes
Christine Mondor

Carnegie Mellon University
Mission & Objectives

Carnegie Mellon University will have a transformational impact on society through continual innovation in education, research, creativity and entrepreneurship.

1. A Diverse and Inclusive Community
2. A Concentration of World-Class Talent
3. A Culture of Interdisciplinary Approaches to Problem-Solving
4. A Destination of Choice for Innovation and Entrepreneurship

Sustainability
Carnegie Mellon University is committed to enhancing CMU’s goals for education, research, and practice within the framework of the seventeen Sustainable Development Goals (SDGs) of the United Nations. The CMU Sustainability Initiative is building on more than two decades of CMU’s engaged effort in support of the broader definition of sustainability afforded by the SDGs.

1. Develop and implement tools and programs to optimize practices in diversity and inclusion
2. Enhance standards for recruiting practices and focus on recruiting diverse personnel at all levels of leadership.
3. Carefully cultivate and mentor existing talent
4. Identify and institute best practices to recruit a strong and diverse student body.

Diversity, Equity and Inclusion
Cultivating diverse perspectives and promoting inclusion will fuel the intellectual vitality essential for the health and progress of our campus community.

1. Develop and implement tools and programs to optimize practices in diversity and inclusion
2. Enhance standards for recruiting practices and focus on recruiting diverse personnel at all levels of leadership.
3. Carefully cultivate and mentor existing talent
4. Identify and institute best practices to recruit a strong and diverse student body.
DESIGN
- Reinforce the Connection of Design and Values
- Create an Enduring Framework of Campus Spaces
- Develop Campus Buildings that are Timeless

EXPERIENCE
- Create Memorable Campus Gateways
- Encourage Collaboration Everywhere
- Foster a Lively On-Campus Lifestyle

MOBILITY
- Expand and Integrate Campus Connections
  Pedestrians > Bikes > Transit > Shared > Single Vehicles

CONTEXT
- Nurture S Craig Street as a Great College Street
- Enhance Connections to the City & Schenley Park

OPPORTUNITY
- Utilize Assets for Campus Growth
- Create a Campus that can Respond to a Dynamic Future
Planning Process

**Process Startup: May - July 2020**
- Background Documentation
- Board of Trustee Discussion - May 2020
- Engage Consultants (UDA and GAI)

**Planning Process: August 2020 - May 2021**
- Develop Master Plan Principles
- Develop Development Concepts
- Board of Trustee Discussion - Oct 2020
- Develop Design and Mobility Concepts
- Begin Campus and Community Outreach

**Develop Plan & Outreach: May - December 2021**
- Performance Targets Discussion with DCP
- Finalize Development and Mobility Goals
- Continued Campus and Community Outreach
- Format and Develop IMP Document
- Final Review with Board of Trustees - Sep 2021

**Approval Process: December 2021 - September 2022**
- Finalize IMP Document
- Finalize Performance Targets
- File Application with City Planning - Dec 2022
- Additional Campus and Community Outreach
- Planning Commission - June 2022
- City Council Approval - Sept 2022

**Past Campus Master Plans**

1906, Hornbostel and Palmer

1967, Sasaki, Dawson and DeMay

1987, Dennis, Clark & Associates

2012, Ayers Saint Gross

Carnegie Mellon University
### Outreach

**Campus Meetings**

<table>
<thead>
<tr>
<th>Meeting Name</th>
<th>Date(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Academic Leadership Forum</td>
<td>14 Apr 2021, 12 Jan 2022</td>
</tr>
<tr>
<td>Academic Leadership Group</td>
<td>18 Nov 2021</td>
</tr>
<tr>
<td>Advisory Team</td>
<td>6th monthly</td>
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<tr>
<td>Board of Trustees: Property &amp; Facilities Committee</td>
<td>15 Feb 2021</td>
</tr>
<tr>
<td>Iggy Alumni Association</td>
<td>16 Feb 2022</td>
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<tr>
<td>Center for Shared Prosperity Reading Group</td>
<td>9 Feb 2022</td>
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<tr>
<td>CMU Campus Police</td>
<td>29 Jun 2021, 1 Nov 2021</td>
</tr>
<tr>
<td>Counseling &amp; Psychological Services</td>
<td>9 May 2021</td>
</tr>
<tr>
<td>Dean's Council</td>
<td>2 Mar 2021</td>
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<tr>
<td>Design Review Committee</td>
<td>27 Jan 2021, 25 Aug 2021</td>
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<tr>
<td>DCSA Leadership</td>
<td>10 Mar 2021</td>
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<tr>
<td>Emergency Risk Management</td>
<td>26 Mar 2021, 16 Jul 2021</td>
</tr>
<tr>
<td>Facilities Management II Group</td>
<td>9 Jun 2021</td>
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<tr>
<td>Facility Coordinator</td>
<td>12 May 2021</td>
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<tr>
<td>Faculty Senate</td>
<td>6 Apr 2021</td>
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<td>Faculty Senate Executive Committee</td>
<td>16 Mar 2021, 20 Oct 2021</td>
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<tr>
<td>Global Goals Committee</td>
<td>2 Jun 2021</td>
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<tr>
<td>Graduate Student Assembly</td>
<td>1 Sep 2021</td>
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<td>Greek Students Coalition</td>
<td>2 Dec 2020</td>
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<tr>
<td>Green Practices Committee</td>
<td>24 May 2021</td>
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<tr>
<td>Human Resource</td>
<td>29 Mar 2022</td>
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<tr>
<td>ISA Faculty</td>
<td>8 Feb 2022</td>
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<td>Office of International Education</td>
<td>15 Apr 2021</td>
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<tr>
<td>Parking &amp; Transportation Committee</td>
<td>21 Apr 2021, 20 Oct 2021</td>
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<tr>
<td>President &amp; Provost</td>
<td>8 Feb 2021, 23 Apr 2021</td>
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<tr>
<td>School of Architecture</td>
<td>20 Apr 2022</td>
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<tr>
<td>Staff Council</td>
<td>18 Mar 2021, 18 Nov 2021, 20 Jan 2022</td>
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<tr>
<td>Student Affairs Leadership Forum</td>
<td>10 Mar 2021, 10 Nov 2022</td>
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<td>ULSAC</td>
<td>8 Mar 2021, 26 Oct 2021</td>
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<td>Undergraduate Student Senate</td>
<td>8 Apr 2021</td>
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<tr>
<td>University Communications &amp; Marketing</td>
<td>8 Mar 2022</td>
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<tr>
<td>University Town Hall</td>
<td>29 Apr 2021, 28 Apr 2022</td>
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<tr>
<td>USAC</td>
<td>9 Mar 2021, 19 Oct 2021</td>
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<tr>
<td>Waste Management Team</td>
<td>15 Sep 2021</td>
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**Community Meetings**

<table>
<thead>
<tr>
<th>Meeting Name</th>
<th>Date(s)</th>
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<tbody>
<tr>
<td>Atrium</td>
<td>8 Feb 2022</td>
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<tr>
<td>Bellefield Area Citizens Association</td>
<td>9 Mar 2021, 10 Aug 2021, 8 Mar 2022</td>
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<tr>
<td>Carnegie Museums</td>
<td>22 Mar 2021</td>
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<tr>
<td>Joint OPOC/CMHC DAM</td>
<td>26 Oct 2021</td>
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<td>Joint OPOC/CHUC/DBID DAM</td>
<td>13 Dec 2021</td>
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<td>Mobility</td>
<td>16 Apr 2021, 13 May 2021</td>
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<tr>
<td>Neighbor Town Hall Phase 1</td>
<td>5 May 2021, 6 May 2021, 11 May 2021</td>
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<tr>
<td>Neighbor Town Hall Phase 2</td>
<td>9 Sep 2021, 9 Sep 2021, 13 Sep 2021</td>
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<tr>
<td>Oakland Task Force</td>
<td>9 Mar 2021, 14 Sep 2021, 8 Mar 2022</td>
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<tr>
<td>Oakland Planning and Development Committee</td>
<td>30 Mar 2021, 31 Aug 2021</td>
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<tr>
<td>Park Mansions</td>
<td>14 Jan 2021</td>
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<tr>
<td>Pittsburgh Parks Conservancy</td>
<td>monthly</td>
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<tr>
<td>Shadyside Action Coalition</td>
<td>31 May 2021, 12 Aug 2021, 10 Mar 2022</td>
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<tr>
<td>Schenley Farms</td>
<td>23 May 2021</td>
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<tr>
<td>Squirrel Hill Urban Coalition</td>
<td>2 Mar 2021, 3 Aug 2021, 1 Mar 2022</td>
</tr>
<tr>
<td>University of Pittsburgh - Community Engagement</td>
<td>20 Jul 2021</td>
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<tr>
<td>University of Pittsburgh - IMP Team</td>
<td>2 Feb 2021, 22 Apr 2021</td>
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**City Meetings**

<table>
<thead>
<tr>
<th>Meeting Name</th>
<th>Date(s)</th>
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</thead>
<tbody>
<tr>
<td>City Council: Erika Strassburger</td>
<td>21 Jan 2021, 80 Sept 2021</td>
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<tr>
<td>City Council: Corey O'Connor</td>
<td>22 Feb 2021</td>
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<tr>
<td>City of Pittsburgh: Forestry, Public Works</td>
<td>8 Jul 2021</td>
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<tr>
<td>City of Pittsburgh: Resilience</td>
<td>10 Aug 2021</td>
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<tr>
<td>DCP Neighborhood Planners</td>
<td>14 Jul 2021</td>
</tr>
<tr>
<td>DCP: Stormwater, Tree Canopy, Open Space</td>
<td>29 Jul 2021</td>
</tr>
<tr>
<td>DCP: DOMI</td>
<td>10 Mar 2021</td>
</tr>
<tr>
<td>DOMI</td>
<td>11 Mar 2021, 16 Jul 2021</td>
</tr>
<tr>
<td>DOMI Port Authority</td>
<td>28 Jun 2021, 7 Oct 2021</td>
</tr>
<tr>
<td>GBA: DCP Sustainability</td>
<td>6 Jul 2021, 21 Jul 2021</td>
</tr>
<tr>
<td>Performance Targets Meeting 1</td>
<td>30 May 2021</td>
</tr>
<tr>
<td>Performance Targets Meeting 2</td>
<td>30 Aug 2021</td>
</tr>
<tr>
<td>Performances Targets Meeting 3</td>
<td>17 Nov 2021</td>
</tr>
<tr>
<td>Pittsburgh Water and Sewer Authority</td>
<td>24 Aug 2021</td>
</tr>
</tbody>
</table>
Existing Conditions

Zoning Code Reference

905.03.0.4.1 (c) Existing Property and Uses

The IMP shall include a description of land, buildings, and other structures owned or occupied by the institution as of the date of submission of the IMP. The following information shall be required: (1) Illustrative site plans showing the footprints of each building and structure, together with roads, sidewalks, parking, landscape features and other significant site improvements; (2) Land and building uses; (3) Gross floor area in square feet; (4) Building height in stories and feet; and facilities, including a statement of the approximate number of parking spaces in each area or facility.
Existing Conditions Maps

Zoning Maps
- Zoning and CMU Properties Map
- Environmental Overlays
- Historic Districts

2022 Building Inventory

Existing Conditions Maps
- Aerial of Campus
- Properties and Zoning
- Site Plan
- Primary Building Uses
- Bike & Pedestrian Network
- Transit & Shuttle Network
- Parking Facilities – CMU
- Parking Facilities – Others
- Open Space
- Tree Cover
- Stormwater Management
- LEED Buildings
- Water & Sewer Lines
- Heating & Cooling Service
- Properties Acquired Since 2012
- Projects Developed Since 2012
Carnegie Mellon in Pittsburgh

A  CMU Main Campus
B  Hazelwood Green
C  Pittsburgh Tech Center
D  6 PPG, Downtown
E  NREC, Lawrenceville
F  477 Melwood, N Oakland
G  WQED, Shadyside
H  6555 Penn, Larimer
I  Etna Warehouse, Etna
Long Term Vision

Zoning Code Reference

905.03.D.4 (f) Twenty-five Year Development Sites

The IMP shall include written and graphic materials identifying future development sites in addition to those noted in the Ten-Year Development Envelope. This information shall include, at minimum, the size and location of each parcel which may be developed within a twenty-five year period.
**Strategy for Campus Growth**
Utilize campus resources to enact a development strategy that optimizes the existing land and buildings and connects the Historic Core to the North Campus and to the Craig Street Area.

**Strategy for Academic Spaces**
Systematically enhance and expand teaching spaces by creating academic spaces that maximize flexibility.

**Strategy for Quality Public Spaces**
Preserve and create dynamic and innovative open spaces, develop the front door to campus at Forbes and Morewood and increase the quality of campus spaces.

**Strategy for a Sustainable Campus**
Continue to innovate and be a leader in sustainable building and operating practices and the development of emerging sustainable technologies.
Institutional Needs

Population and space trends - Pittsburgh location only
Net assignable square footage includes owned and leased space
Fall 2000 to Fall 2019

2000 = 249 nasf/person
2019 = 211 nasf/person

Carnegie Mellon University
Zoning Code Reference

905.03.D.(e) Ten-Year Development Envelope

The IMP shall include a description of the envelope within which development will occur in a ten-year time frame. The development envelope is the maximum amount of development proposed by an institution, which can be supported through impact studies. The intent of this provision is to provide the institution with flexibility regarding the future development potential of its campus, while addressing the potential impacts of that development on the surrounding neighborhoods.

The development envelope shall include the following:

(1) Location of each potential development site;
(2) Maximum Floor Area of structures for each potential development site;
(3) Total Maximum Floor Area for IMP structures;
(4) Height of possible structures;
(5) Required setbacks on each parcel;
(6) Other factors which may affect the size and form of buildings; and
(7) Total number and location of parking spaces which will occur within a ten-year period.
10 Year Development Sites

- Carnegie Mellon University Property in 2022 IMP
- Carnegie Mellon University Existing Buildings
- Campus District Boundaries
- Development Sites
  1. Facilities Operations Center
  2. Academic Building
  3. Hamburg Expansion
  4. Mixed Use
  5. Purnell Center Expansion
  6. West Wing Addition
  7. Margaret Morrison Carnegie Hall Expansion
  8. Academic/Student Housing Complex
  9. Student Commons
  10. Academic Building
  11. Mixed Use Building
  12. Student Commons
  13. Mixed Use Building
  14. Student Housing
  15. Student Housing
  16. Shirley Apartments Renovation
  17. Student Apartments
  18. Mellon Institute Entrance
  19. Mixed Use Building
  20. South of Forbes Site
Historic Core Development Sites

1 New Operations Building
2 New Academic Building
3 Academic Building Expansion
4 New Academic Building
5 Academic Building Expansion
6 Student Support Expansion
7 Academic Building Expansion
8 New Mixed Use Building
9 Student Support Expansion
1. New Operations Building
   - Expansion of Operations along South Neville St including trail easement

2. New Academic Building
   - Replace existing FMS Building with new academic building

3. Academic Building Expansion
   - Expand existing Smith Hall and cover courtyard for new indoor space
4. **New Academic Building**
   - Replacement of Cyert and Warner Halls with new academic building
   - Uses: Education, Laboratory / Research, Office, Parking, Restaurant
   - Square Feet: 250,000 gsf
   - Height: 7 stories / 105 ft
   - Setbacks: None
   - North: match existing Heinz College
   - South: 20 ft from Purnell ext
   - East: match existing Purnell Center
   - West: 20 ft from Heinz College
   - Mobility: Shared loading facility with Purnell Center
   - Public Realm: Integration with new BRT station, completion of the Square on Forbes Ave, upgrades to Forbes Ave street scape

5. **Academic Building Expansion**
   - Addition to Purnell Center for School of Drama including new entrance
   - Uses: Education, Laboratory / Research, Office, Public Assembly
   - Square Feet: 30,000 gsf
   - Height: 3 stories / 50 ft to match the existing building
   - Setbacks: None
   - North: 20 ft beyond existing building end
   - South: existing building
   - East: existing building
   - West: align with existing building west face
   - Site subject to Residential Compatibility Standards
   - Mobility: Shared loading facility with Site #4
   - Public Realm: Includes new outdoor seating on the Cut, includes electronic marquee sign

6. **Student Support Expansion**
   - Addition to West Wing for student support space
   - Uses: Education, Laboratory / Research, Office, Restaurant
   - Square Feet: 5,000 gsf
   - Height: 1 story / 15 ft
   - Setbacks: None
   - North: align w/north wing of West Wing
   - South: 5 ft from West Wing
   - East: adjacent to existing building
   - West: 5 ft from West Wing
   - Mobility: NA
   - Public Realm: Provide access to track and field

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**Historic Core Development Sites**

4 **New Academic Building** replacement of Warner and Cyert Halls for new academic building

5 **Academic Building Expansion** addition to Purnell Center in existing parking lot

6 **Student Support Expansion** addition to West Wing for student support functions
<table>
<thead>
<tr>
<th>Historic Core Development Sites</th>
</tr>
</thead>
</table>
| **7 Academic Building Expansion**
expansion of Margaret Morrison Carnegie Hall for College of Fine Arts |
| **8 New Mixed Use Building**
replacement of existing Donner House with new residential and academic uses |
| **9 Student Support Expansion**
infill under Hamerschlag House for new district Commons |
North Campus Development Sites

10 New Academic Building
11 New Mixed Use Buildings
12 Student Support Expansion
13 New Mixed Use Building
14 New Residential Buildings
15 New Residential Building
### North Campus Development Sites

**10 New Academic Building**  
Expansion of Tepper School of Business

**11 New Mixed Use Buildings**  
Replace surface parking with new academic buildings

**12 Student Support Expansion**  
Reuse and infill of lower levels of E Tower
North Campus Development Sites

### 13 New Mixed Use Building
replace older Greek housing with new mixed-use building

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>New mixed use building</th>
</tr>
</thead>
<tbody>
<tr>
<td>USES</td>
<td>Education, Laboratory/Research, Office, Parking, Dormitory, Restaurant</td>
</tr>
<tr>
<td>SQUARE FEET</td>
<td>200,000 sf</td>
</tr>
<tr>
<td>HEIGHT</td>
<td>8 stories / 120 ft</td>
</tr>
<tr>
<td>STEPBACKS</td>
<td>None</td>
</tr>
</tbody>
</table>
| SETBACK      | North: 20’ from Greek Housing  
               South: 10’ from property line  
               East: 10’ from campus drive  
               West: 10’ from property line |
| MOBILITY    | Up to 150 structured spaces |
| PUBLIC REALM| Upgrades to Forbes and Morewood Ave streetscape  
               Creates new campus quadrangle |
| HOUSING     | Up to 300 beds |

### 14 New Residential Buildings
reconfigure existing Greek Quad for additional density of student housing

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>Replacement of Greek Housing with new Dormitories / Greek Housing</th>
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</thead>
<tbody>
<tr>
<td>USES</td>
<td>Office, Parking, Student Housing</td>
</tr>
<tr>
<td>SQUARE FEET</td>
<td>250,000 sf</td>
</tr>
<tr>
<td>HEIGHT</td>
<td>4-8 stories</td>
</tr>
</tbody>
</table>
| STEPBACKS   | 4 stories at northwest corner  
               North: 10’ from property line  
               South: 20’ from Forbes Avenue building  
               East: 10’ from property line  
               West: 10’ from property line  
               Site subject to Residential Compatibility Standards |
| MOBILITY    | Upgrades Morewood Ave streetscape  
               Includes distinct loading facility |
| PUBLIC REALM| Creates new campus quadrangle |
| HOUSING     | Up to 720 beds |

### 15 New Residential Building
replace existing garages as part of additional student housing at Greek Quad

<table>
<thead>
<tr>
<th>DESCRIPTION</th>
<th>New mixed use building</th>
</tr>
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<tbody>
<tr>
<td>USES</td>
<td>Dormitory, Office, Parking</td>
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<tr>
<td>SQUARE FEET</td>
<td>40,000 sf</td>
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<tr>
<td>HEIGHT</td>
<td>4 stories / 50 ft</td>
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<tr>
<td>STEPBACKS</td>
<td>None</td>
</tr>
</tbody>
</table>
| SETBACK      | North: 20’ from property line  
               South: 10’ from property line  
               East: 20’ from property line  
               West: 10’ from campus drive  
               Site subject to Residential Compatibility Standards |
| MOBILITY    | No curb cuts on Devon Rd  
               No parking on site |
| PUBLIC REALM| Upgrades Forbes Ave streetscape |
| HOUSING     | Up to 180 beds |
Craig Street Area Development Sites

16 University Support Building
17 New Residential Building
18 Academic Building Expansion
19 New Academic Building
20 New Academic Building
Craig Street Area Development Sites

16 University Support Building
reconfigure Shirley Apts for new academic and administrative uses

17 New Residential Building
replace Whitfield Hall with new housing; note site is not zoned EMI but within 1000 feet of campus

18 Academic Building Expansion
new entry to Mellon Inst at loading dock area; note building is in Oakland Civic Historic District
Craig Street Area Development Sites

19 New Academic Building
replace GATF building with new mixed-use building

20 New Academic Building
proposed site of new RK Mellon Science Building with below ground parking
Urban Design Guidelines

Zoning Code Reference

905.03.D.4 (j) Urban Design Guidelines

The IMP shall include design guidelines and objectives for new and renovated buildings and structures to assure their compatibility with supporting neighborhoods and districts and to minimize potential adverse impacts on historic structures and historic districts. Urban design guidelines shall include listings of appropriate materials, height, bulk, massing, and colors that will be used to guide the course of proposed and future development.
Urban Design Guidelines

**Building Standards**
- Siting, Height and Massing
- Setbacks and Stepbacks
- Entrances and Transparency
- Materials and Composition
- Connections Across Forbes Ave

**Public Realm Standards**
- Landscape Design
- Circulation
- Furniture and Art

**Transportation Standards**
- Parking
- Curb Cuts
- Service and Loading
- Transit Facilities
- Bicycles
Urban Design Guidelines – Historic Core

Carnegie Mellon University
Urban Design Guidelines – North Campus

Design Features
- Proposed Buildings
- Circulation Paths
- Primary Entrances
- Service Entrances
- Proposed Public Open Space
- Section Cuts

10-year Development Sites
10. Assembly / Administration Building Expansion
11. New Mixed-Use Building
12. E Tower Commons
13. New Mixed-Use Building
14. New Residential Building(s)
15. New Residence Building
Urban Design Guidelines – Craig St Area
CMU 2022 IMP – Part 2

6 Mobility
7 Infrastructure
8 Neighborhood Engagement

26 July 2022
• Create new & improved pedestrian pathways with strengthened walkable neighborhood connections

• Increase pedestrian safety and comfort utilizing with upgraded signaling, signage, lighting, and crosswalks

• Add bicycle amenities & build additional cycling infrastructure

• Increase connectivity of overall cycling network and support options for all wheeled mobility users

• Engage partner institutions to develop shared shuttle services (”microtransit”)

• Institute Transportation Demand Management (TDM) to reduce SOV mode share and greenhouse gas emissions

• Use improvements to achieve goal of NO NET NEW PARKING
Mobility Improvements
Proposed Pedestrian Network

1. Morewood & Fifth Ave Intersection
2. Forbes Ave Bridge Sidewalk Widening
3. Forbes Ave & Margaret Morrison St Intersection
4. Margaret Morrison St Pedestrian Safety
5. Margaret Morrison St & Tech St Intersection
6. Frew St, Tech St, & Schenley Dr Intersection
7. Schenley Park Entrance
8. Connection to Schenley Park
9. Junction Hollow Pedestrian Bridge
10. Boundary St Railroad Crossing
11. Craig St Improvements
12. Mellon Institute Connectivity
13. Fifth Ave Sidewalk Improvements

Connection to Eliza Furnace Trail and River Trail System

To Shadyside

To Oakland

To Squirrel Hill

Carnegie Mellon University Existing Buildings
Development Sites
Pedestrian Network
Proposed Pedestrian Connections
## Current Parking Inventory

### CMU Surface Lots

<table>
<thead>
<tr>
<th>Map</th>
<th>CMU Surface Lots</th>
<th>Spaces</th>
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<tbody>
<tr>
<td>1</td>
<td>Zebina Way Lot</td>
<td>32</td>
</tr>
<tr>
<td>2</td>
<td>Henry Street Lot</td>
<td>13</td>
</tr>
<tr>
<td>3</td>
<td>Fairlax Lot</td>
<td>55</td>
</tr>
<tr>
<td>4</td>
<td>Whitfield Hall Lot</td>
<td>61</td>
</tr>
<tr>
<td>5</td>
<td>300 South Craig Lot</td>
<td>22</td>
</tr>
<tr>
<td>6</td>
<td>Hamburg Hall Lot</td>
<td>12</td>
</tr>
<tr>
<td>7</td>
<td>GAF Lot</td>
<td>72</td>
</tr>
<tr>
<td>8</td>
<td>Frew Street Meters</td>
<td>10</td>
</tr>
<tr>
<td>9</td>
<td>West Campus Lot</td>
<td>14</td>
</tr>
<tr>
<td>10</td>
<td>Morewood Lot</td>
<td>285</td>
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<tr>
<td>11</td>
<td>Warner Hall Lot</td>
<td>16</td>
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<tr>
<td>12</td>
<td>Fine Arts Lot</td>
<td>61</td>
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<tr>
<td>13</td>
<td>Donner House Lot</td>
<td>23</td>
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<tr>
<td>14</td>
<td>Margaret Morrison St</td>
<td>14</td>
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<tr>
<td>15</td>
<td>Brander House Lot</td>
<td>5</td>
</tr>
<tr>
<td>16</td>
<td>Fraternities Lot</td>
<td>69</td>
</tr>
<tr>
<td>17</td>
<td>Fifth and Neville Lot</td>
<td>16</td>
</tr>
<tr>
<td>18</td>
<td>Clyde Street Lot</td>
<td>90</td>
</tr>
<tr>
<td>19</td>
<td>Hill Lot</td>
<td>17</td>
</tr>
<tr>
<td>20</td>
<td>South Neville Lot</td>
<td>96</td>
</tr>
<tr>
<td>21</td>
<td>Forbes Beeler Lot</td>
<td>20</td>
</tr>
<tr>
<td>22</td>
<td>Carnegie Museum Lots</td>
<td>110</td>
</tr>
</tbody>
</table>

### CMU Garages

<table>
<thead>
<tr>
<th>Map</th>
<th>CMU Garages</th>
<th>Spaces</th>
</tr>
</thead>
<tbody>
<tr>
<td>23</td>
<td>Fifth and Craig Street Garage</td>
<td>40</td>
</tr>
<tr>
<td>24</td>
<td>Dithridge Garage</td>
<td>370</td>
</tr>
<tr>
<td>25</td>
<td>CIC Garage</td>
<td>236</td>
</tr>
<tr>
<td>26</td>
<td>Gates Garage</td>
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</tr>
<tr>
<td>27</td>
<td>East Campus Garage</td>
<td>780</td>
</tr>
<tr>
<td>28</td>
<td>East Campus Garage Motorcycle</td>
<td>14</td>
</tr>
<tr>
<td>29</td>
<td>Residence at Fifth Garage</td>
<td>37</td>
</tr>
<tr>
<td>30</td>
<td>TCS Garage</td>
<td>45</td>
</tr>
<tr>
<td>31</td>
<td>Tepper Quad</td>
<td>126</td>
</tr>
<tr>
<td>32</td>
<td>Fifth Neville Garage</td>
<td>29</td>
</tr>
</tbody>
</table>

**Total Spaces** 2,908

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Carnegie Mellon University
1. Continue to reduce/minimize consumption with ever-increasing higher efficiency in buildings, use patterns, and behavior.

2. Continue to invest in cleaner fuel generation & fuel sources.

3. Continue to create redundancy & systems that can address climate change challenges.


5. Continue to analyze results every year against peer group & 2005 base year.

6. Continue to manage stormwater in groundbreaking systems to reduce inputs to systems and reuse water.
Tree Preservation & Replacement Plan
Energy Use and District Expansion

The following buildings do not have EUI information since they are new buildings on campus.

1. Scott Hall
2. Fifth Clyde Residence
3. New Scaife
4. Health, Wellness and Athletics Center
5. Forbes Beeler Residence

- 0 - 75 Site EUI* (kBtu/ft²)
- 76 - 150 Site EUI (kBtu/ft²)
- 151 - 225 Site EUI (kBtu/ft²)
- 226 - 300 Site EUI (kBtu/ft²)
- Development Sites
- Future Expansion of District Heating & Cooling

*EUI: Energy Use Intensity
*kBtu/ft²: one British thermal unit per square foot
Stormwater Management

Proposed Projects
1. North of Forbes Avenue
2. South of Forbes Avenue
3. S Neville
4. FMS Building
5. Morewood Parking Lot
6. Greek Quad
7. Extend The Mall retention tank to the CFA Lawn
8. CFA Parking Lot/The Beach
9. Donner Site

Completed Projects
- [List of completed projects]

Proposed Projects
- [List of proposed projects]

Development Sites
- [List of development sites]

Carnegie Mellon University Property in 2022 IMP
Open Spaces and Pedestrian Circulation

Zoning Code Reference

905.03.D.4 (f) Open Space and Pedestrian Circulation Plan

The IMP shall include open space and pedestrian circulation guidelines and objectives, including a description of the circulation system to be provided through the campus and plans for ensuring the accessibility of pedestrian areas and open spaces.

Carnegie Mellon University
1. Manage Impacts on Neighbors
2. Make Connections with the Community
3. Make Craig Street a Great Street
4. Provide Amenities that are open & available to All
5. Have a Positive Economic Impact on the Region
Community Engagement

- Zoning Districts
- Carnegie Mellon University Property in 2022 IMP
- Oakland Planning and Development Corporation (OPDC)
- Oakland Business Improvement District (OBID)
- Shadyside Action Coalition (SAC)
- Squirrel Hill Urban Coalition (SHUC)
- Hill Community Development Corporation (HILL CDC)
- Pittsburgh Parks Conservancy (PPC)
- Registered Community Organizations (RCO)

(Map by City of Pittsburgh)
Manage Impacts on Neighbors

- **R1D-VL**: Residential Single-Unit Detached, Very Low Density
- **R1D-L**: Residential Single-Unit Detached, Low Density
- **R1A-H**: Residential Single-Unit, High Density
- **R2-L**: Residential Two-Unit, Low Density
- **R2-H**: Residential Two-Unit, High Density
- **RM-M**: Residential Multi-Unit, Moderate Density
- **RM-H**: Residential Multi-Unit, High Density
- **RM-VH**: Residential Multi-Unit, Very High Density
- **EMI**: Educational Medical Institutional
- **OPR-B**: Oakland Public Realm
- **P**: Park
- **H**: Hillside
- **RP**: Residential Planned Unit Development
- Carnegie Mellon University Property in 2022 IMP
- EMI (Educational Medical Institutional) Zoning District
- Proposed Zoning Change to EMI (3 small areas)
- Development Sites
Providing service to communities where our neighbors live, work, and play is an essential part of every student’s education. There are more than 40 student-run organizations with a primary purpose of community service.

Providing service to communities where our neighbors live, work, and play is an essential part of every student’s education. There are more than 40 student-run organizations with a primary purpose of community service.

cmu.edu/student-affairs/slice

Education

Education at all stages of life:
• Preschool & Kindergarten
• K-12 Direct Instruction
• Pre-College
• OSHER Lifelong Learning Institute

More than 2 dozen service learning courses across all 7 colleges

Arts & Culture

Building on the rich history of free expression and the world-changing capacity of creativity to transform and advance culture and society is a university priority

Make Connections with the Community

Carnegie Mellon University
Provide Amenities that are Open & Available to ALL

**Arts:** Theatres, concert venues, galleries

**Humanities:** Libraries

**Recreation:** Gesling stadium, Cut, Mall, paved pathways across campus

**Community events:**
- Spring Carnival
- Homecoming
- 4th of July Fireworks
- Division III sporting events

**Public art:** maps & online guide

**Develop improved connections to Schenley Park**
Make Craig Street a Great Street

Pavement Treatments
Outdoor Seating Areas
Pop-Up Retail
Recapture Parking Spaces For Outdoor Seating
Stormwater Management in Landscaping
$447 million in sponsored research in FY 2020 (most ever in CMU history)

Have a Positive Economic Impact on the Region

Annual Local, Regional and State Economic Impact

- **$3.26 billion** in economic impact across Pennsylvania
- **19,620 Jobs** supported statewide
  - 96% located in Southwestern PA
  - 50% located in Pittsburgh
- **$72.1 million** Commonwealth of PA
- **$14.2 million** City of Pittsburgh
- **340+ startups** created by students and faculty since 2010
- **575 corporate partnerships**
- **$2.34 billion** impact of operations across Pennsylvania
- **$430 million** impact of the alumni wage premium
- **$192 million** impact from student and visitor spending
- **$293 million** impact of capital investment across Pennsylvania

Carnegie Mellon University is committed to partnering with nonprofit, foundation, government, higher education, community and business leaders to catalyze even greater economic impact in 2020 and beyond.
WEBPAGE  https://www.cmu.edu/cdfd/planning-and-design/master-plan/index.html
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