### *Volpe Working Group – August 17, 2017*

### Meeting focus: Discussion of MIT zoning proposal, zoning strategies

### Background information:

- K2 development projections and outcomes
- FAR context
- Height limits comparison
- Open space comparison
- Comparison of VWG planning principles and zoning provisions

### Discussion topics:

- How does zoning control development?
  - o FAR and GFA (and what's the difference)?
  - Height limits different approaches
  - Open space what type, how much, where?
- How does zoning encourage desired outcomes?
  - o Requirements/contributions tied to development
  - o Incentives waivers, exemptions, "credit" for desirable elements
  - o Development standards to meet public objectives
  - o Review process, criteria, guidelines

## MIT PUD-7 Volpe Site Zoning Petition

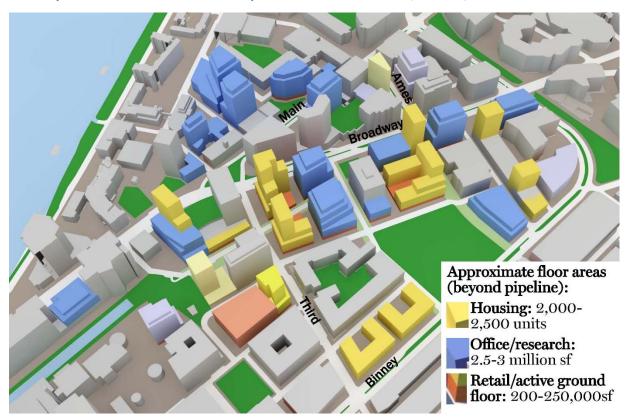
## Current/Proposed Zoning Comparison

ALL FIGURES APPROXIMATE	Current Zoning (PUD-KS)	Proposed Zoning (PUD-7)
Maximum FAR	3.0 / 3.9 (with Inclusionary bonus)	5.2 (no Inclusionary bonus)
Parcel Area (approx)	620,000 SF (14.2 acres) *	620,000 SF (14.2 acres) *
Maximum Total GFA (non-exempt)	1,860,000 / 2,420,000 SF	3,220,000 SF
Exempt Active Use and Community Space GFA	70,000 SF	70,000-140,000 SF (est., not strictly limited)
Exempt Innovation GFA	N/A	85,000 SF (up to 5% of office)
Max. Total GFA (incl. exempt)	1,930,000 / 2,500,000 SF	3,375,000-3,445,000 SF (est.)

### GFA and FAR Components by Use

ALL FIGURES APPROXIMATE	Gross Floor Area	Component FAR
Government GFA/FAR (non-exempt)	400,000 SF	0.64
Maximum Commercial GFA/FAR	1,690,000 SF	2.73
Minimum Residential GFA/FAR (allowed hotel/motel component)	1,130,000 SF (up to 250,000 SF)	1.82 (up to 0.40)
Total GFA/FAR (non-exempt)	3,220,000 SF	5.2

# K2 Advisory Committee Development Scenario (2012)



## K2 Study Zoning Recommendations (2012) - Resulting Development

	MIT (PUD-5)	<b>MXD District</b>	Volpe (PUD-KS)**	TOTAL
Office/Research	Max. 1.0 million SF	Max. 600,000 SF	Max. 1.5 million SF	3.1 million SF
Residential	Min. 240,000 SF	Min. 400,000 SF	Min. 1.3 million SF	1.9 million SF
Retail/Active	TBD	TBD	TBD	TBD
TOTALS	1.2 million SF	1.0 million SF	2.8 million SF	5.0 million SF
	(+ retail/exempt)	(+ retail/exempt)	(+ retail/exempt)	(+ retail/exempt)

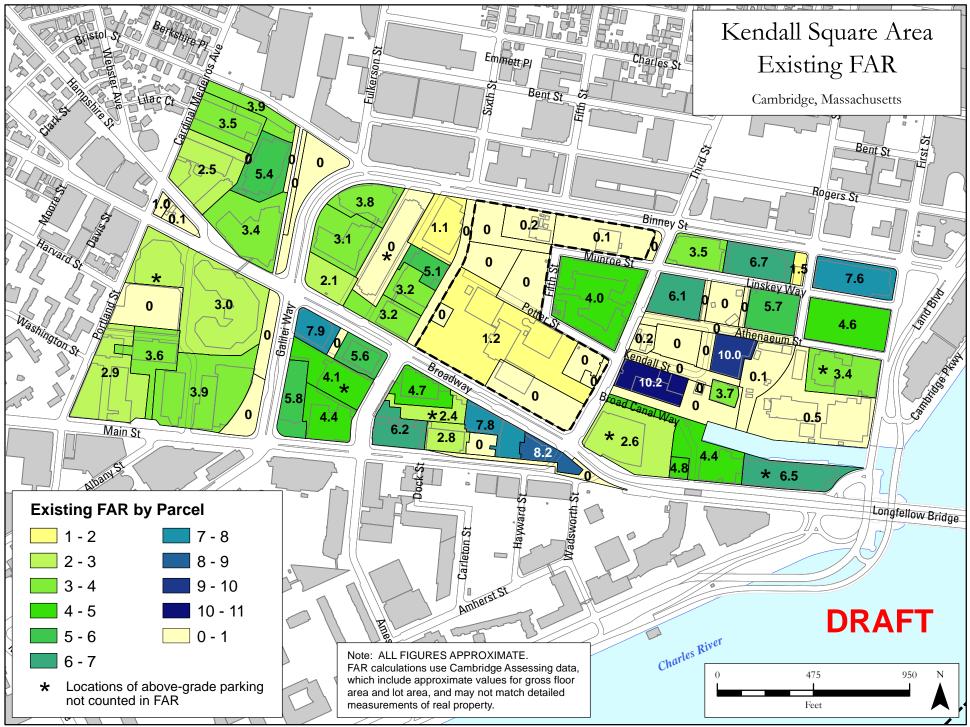
<sup>\*\*</sup> Figures based on 4.0 base FAR and counting inclusionary bonus for housing

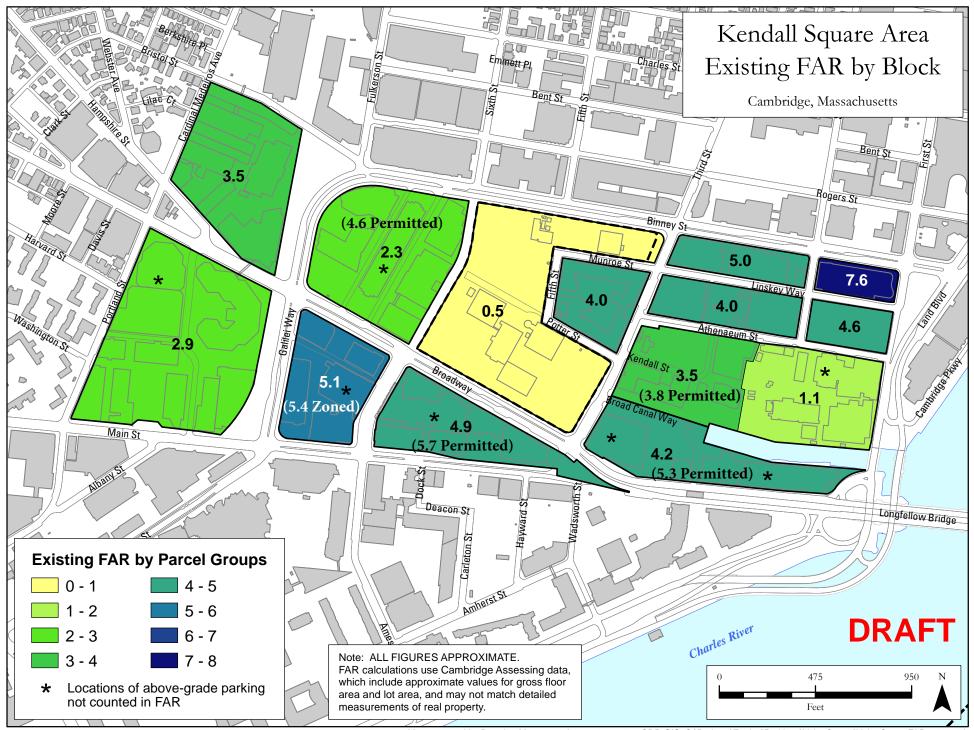
# Current Status of Permitted/Planned Development (2017)

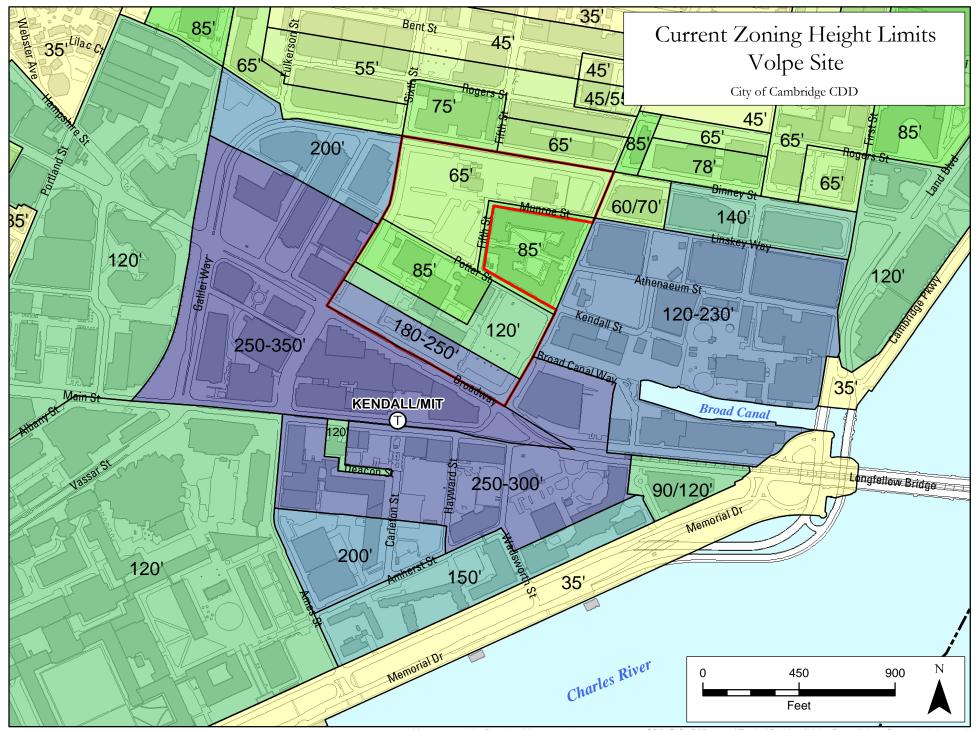
	MIT (Permitted)	MXD (Permitted)	Volpe (Proposed)	TOTAL
Office/Research	900,000 SF	600,000 SF	Max. 1.7 million SF	3.2 million SF
Residential	315,000 SF	400,000 SF	Min. 1.1 million SF	1.8 million SF
+Student Housing	+166,000 SF			+166,000 SF
Retail/Active	123,000 SF	19,000 SF	~70,000-140,000 SF	212,000-282,000 SF
TOTALS	1.5 million SF	1.0 million SF	2.9 million SF	5.4 million SF

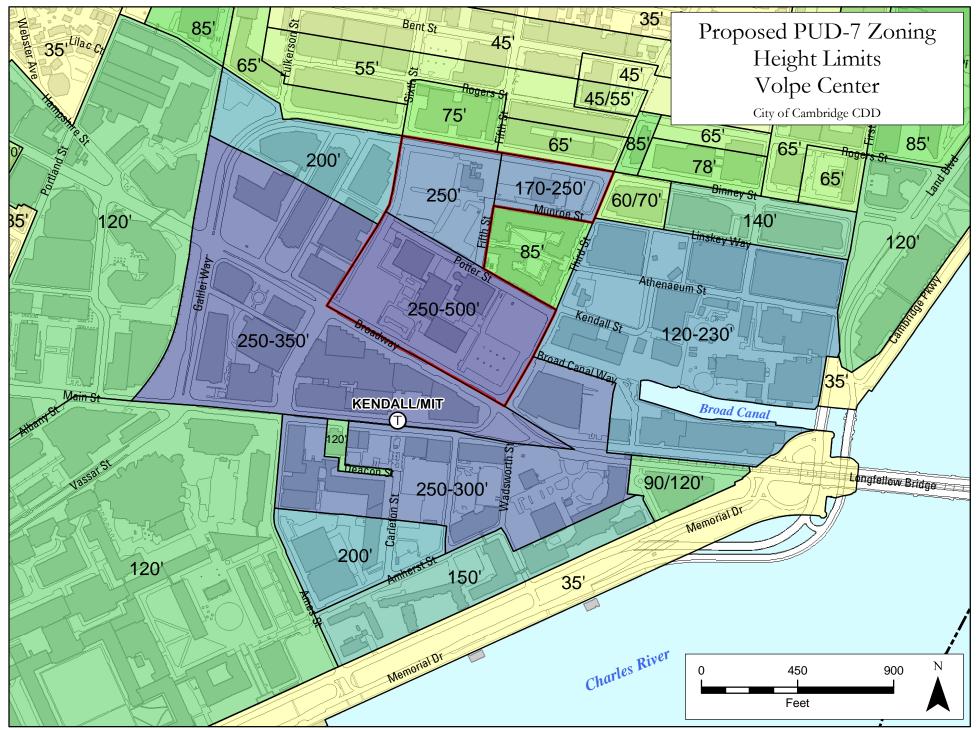
### FIGURES REPRESENT NET NEW DEVELOPMENT FROM 2012 EXISTING/PERMITTED

### **ALL FIGURES APPROXIMATE**

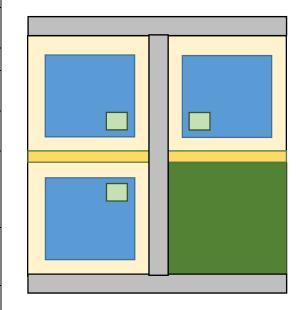








Types of Space	Key Characteristics	
"Negative Lot Coverage"	Any space not occupied by building, including streets, surface parking, paved areas, green areas.	
Street (public or private)	Right-of-way intended for automobile access to lots.	
Green area open space	Ground-level, open-air space, excludes streets and parking, generally permeable materials to 3' minimum depth, no more than 25% hard surfaces.	
Permeable open space	Green area open space with permeable material such as vegetation, rocks, pebbles, wood chips, unit pavers; paved pathways no more than 48" in width.	
Publicly beneficial open space	Privately owned, but providing public accessibility (if specified) or visual and environmental benefit; includes parks, plazas, lawns, landscaped areas, decorative plantings, active and passive recreational areas, loggias, atriums, arcades, pedestrian ways; NOT streets or parking.	
Public open space	Guaranteed for public use through public ownership, easement, covenant or other mechanism; open to the sky, designed for environmental, scenic, or recreation purposes.	
Private open space	For enjoyment of residents of a building; includes private yards patios, decks; may include balconies and roof areas to a limited extent.	



Redevelopment Area	Permit Yr(s).	Zoning for Open Space	Type of Open Space Provided	Parcel Area (SF)	Provided OS (SF)	Provided OS (%)
Kendall Center (MXD District/KSURP)	1977/ 2017	Total of 15% publicly accessible in MXD; 100,000 SF public	Part conveyed to City, part owned by CRA, part public by covenant	1,013,000	156,000 *	16%
East Cambridge Riverfront PUDs (Aggregate)	1981- 1997	15-25% open, PB may reduce if public OS provided or integrated	Public by conveyance to City	1,290,000	251,000 *	19%
University Park (CRDD District)	1987	100,000 SF publicly beneficial	Publicly beneficial, privately owned	1,014,000	107,000	11%
Cambridge Research Park PUD ("Kendall Square")	1999	15% open, PB may reduce if public OS provided or integrated	Publicly beneficial, privately owned	425,000	96,000	23%
North Point PUD	2003/ 2016	20% public, green or permeable; 2.5 acre public park	Part to be conveyed to City; part publicly beneficial, privately owned	1,977,000	479,000	24%
Alexandria Center PUD	2010	15% open, at least 2.3 acres conveyed to city	Public by conveyance to City	491,000	112,000	23%
MIT SoMa/NoMa PUDs	2015	Total of 15% publicly beneficial w/in PUD-5 district	Publicly beneficial, privately owned	460,000	126,000	27%

Note: ALL FIGURES APPROXIMATE. Based on area of Development Parcel, which does not include existing streets, but may include new streets created as a component of the development. (\*) For comparison, does not include public roof-level open spaces.

Volpe Working Group Principles / MIT PUD-7 Zoning Petition

Planning Principle	Petition Elements	Other Zoning Considerations
Civic Life	<ul> <li>Publicly beneficial open space (3.6 acres, up to 0.7 acres on Federal site)</li> <li>\$15M for community space</li> <li>Criteria for civic engagement in PUD approval</li> </ul>	<ul> <li>"Civic use plan" in development proposal?</li> <li>Expectations for public/civic space:         <ul> <li>Location?</li> <li>Public conveyance or covenant?</li> </ul> </li> <li>Clearer purpose of community space?</li> <li>Ongoing commitment to open space/community programming?</li> </ul>
Connectivity & Permeability	<ul> <li>Connectivity plan in development proposal</li> <li>Publicly beneficial open space to include contiguous connectors</li> <li>Criteria for PUD approval</li> </ul>	<ul> <li>Specify connections such as Broad Canal, Sixth Street walkway, Fifth Street extension, Galaxy Park?</li> <li>Regional connections such as Grand Junction?</li> <li>Connectivity with Federal site?</li> </ul>
Activation	<ul> <li>65% active ground-level frontage on Broadway and Third Street</li> <li>GFA exemption of up to 5,000 square feet per establishment</li> <li>Required study by retail specialist</li> <li>\$15M for community space</li> <li>Criteria for PUD approval</li> </ul>	<ul> <li>Activation of public open spaces and connections through site?</li> <li>Indoor public space for all-season enjoyment (e.g., market hall)?</li> <li>Size criteria for retail exemption?</li> </ul>
Inclusiveness	<ul> <li>Housing requirement w/inclusionary</li> <li>Housing plan in development proposal</li> <li>Criteria for diverse housing mix</li> <li>\$15M for community space</li> <li>25% of active use space for Independent Retail Operators</li> <li>85,000 SF Innovation Space (not necessarily on-site)</li> <li>\$5/SF contribution to community fund</li> </ul>	<ul> <li>Family-sized units?</li> <li>Private open space/common space for residents (balconies, elevated courtyards)?</li> <li>Smaller-scale owner-operated enterprise? (possible overlap with innovation space)</li> <li>Family-friendly retail and open space qualities?</li> <li>Stronger inclusiveness criteria for PUD approval?</li> </ul>
Comfort	<ul> <li>Noise mitigation standards (similar to others in K2)</li> <li>Required studies of wind and shadows in development proposal</li> </ul>	<ul> <li>Criteria for "human-scaled" spaces?</li> <li>Shadow/wind/noise – more explicit comfort studies at early site plan stage? More specific criteria/guidelines?</li> <li>Vegetation, shade for heat island mitigation?</li> </ul>
Sustainability	<ul> <li>LEED Gold and other standards (consistent with K2 study)</li> <li>Sustainability narrative covering ongoing topics</li> <li>Reduced maximum parking ratios</li> <li>\$5/SF contribution to transit fund</li> </ul>	<ul> <li>Criteria focusing on net zero plan (energy efficiency/renewables) and resiliency?</li> <li>Site sustainability/resiliency plan in development proposal?</li> <li>Permeable open space, wetland, vegetation (ground-level or roof)?</li> <li>Transportation study including transit?</li> <li>Alternative transit funding approaches?</li> </ul>