Zoning Case 23-02 (1617 U St)

Shadow Study based on MU-10 By-Right Development Standards

Because the Applicant didn't do one

1

Assumptions

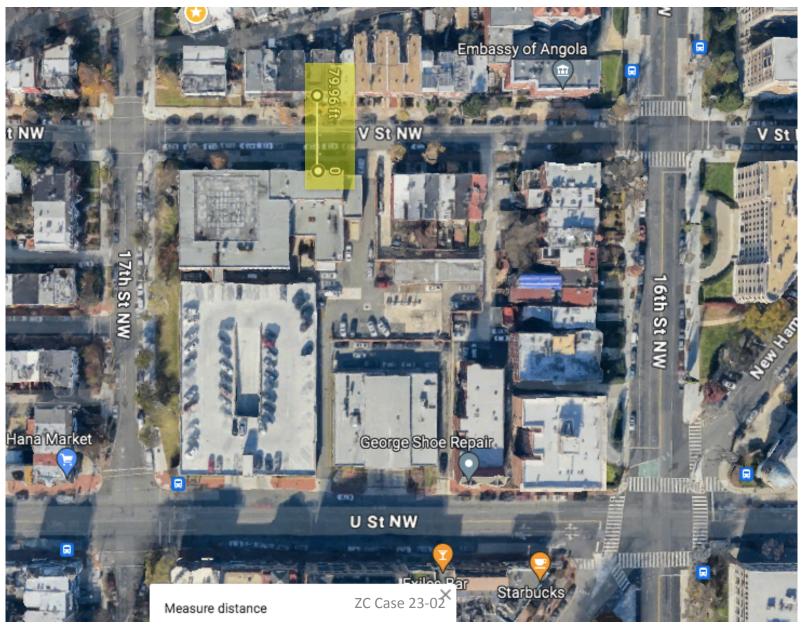
- In the summer, DC experiences noon sunlight at an angle of about 70 degrees from the horizon (peak June Solstice is about 75 deg)
- In the winter, DC experiences noon sunlight at an angle of about 30 degrees from the horizon (peak December Solstice is about 28 deg)
- Row homes on V St are about 20 feet tall on average

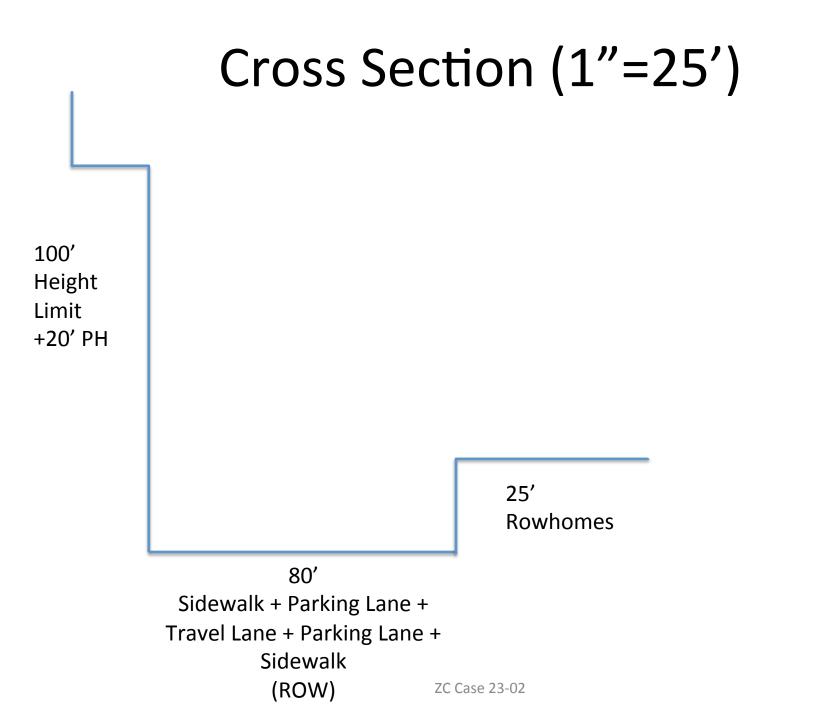
MU-10 Development Standards

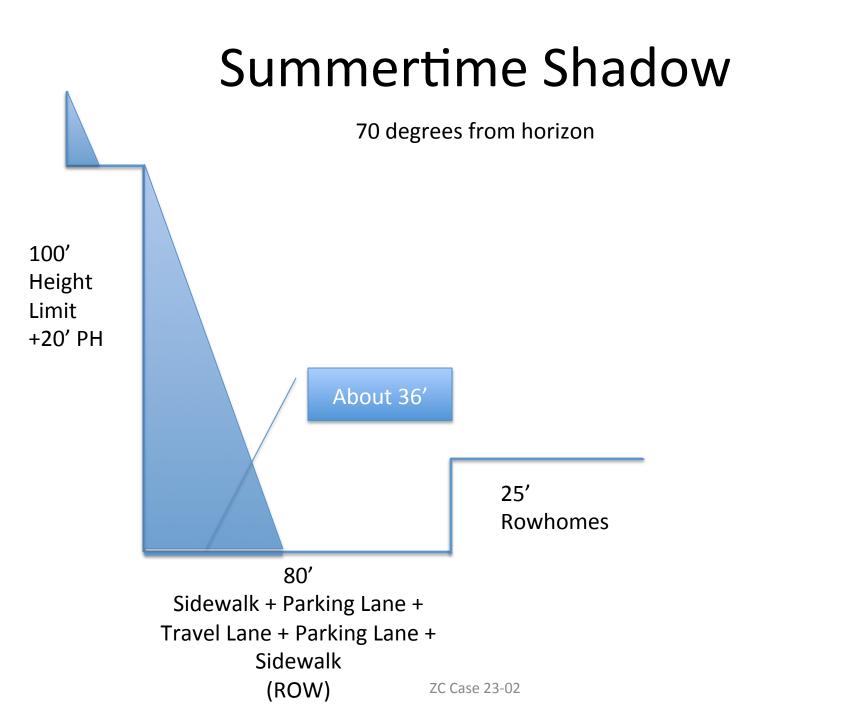
Comparison of Existing & Proposed Zones

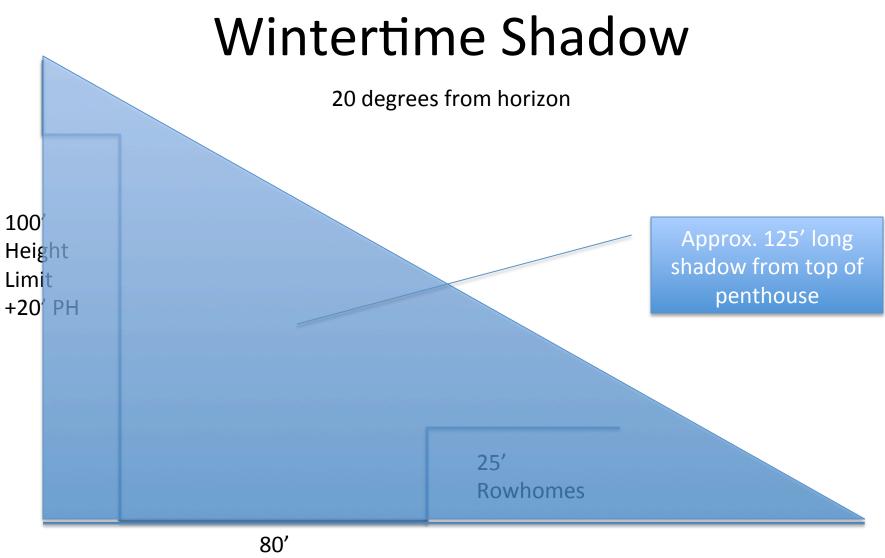
MU-4MU-10Permitted Uses:MU-Use Group E in Subtitle U, Chapter 5.MU-Use Group G in Subtitle U, Chapter 5.Height:50 ft. maximum90 ft. max 100 ft. max. with IZFloor Area Ratio (FAR):2.5 max. 3.0 max with IZ6.0 max. 7.2 max. with IZ(FAR):3.0 max with IZ (1.5 max. non-residential use)6.0 max. non-residential use)	
Uses:5.Height:50 ft. maximum90 ft. max 100 ft. max. with IZFloor Area Ratio (FAR)2.5 max. 3.0 max with IZ6.0 max. 7.2 max. with IZ	
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Floor Area 2.5 max. Ratio 3.0 max with IZ (FAR) 7.2 max. with IZ	
Floor Area 2.5 max. Ratio 3.0 max with IZ (EAP) 7.2 max. with IZ	
Ratio 3.0 max with IZ 7.2 max. with IZ	
$(\mathbf{FAP})_{\mathbf{I}}$	
(FAR): (1.5 max. non-residential use) (3.0 max. non-residential use)	
Penthouse 12 ft. max./1 story 20 ft. max./ 1 story	
Height: 15 ft. total with second story for penthouse 20 ft. total with second story for	
mechanical space penthouse mechanical space	
Lot 60% 75%	
Occupancy 75% IZ 80% IZ	
Rear Yard 15 ft. min. The greater of 12 feet or 2.5" deep pe	
foot of building height. Not required	
ZC Case 23-02	

Approximate Distance



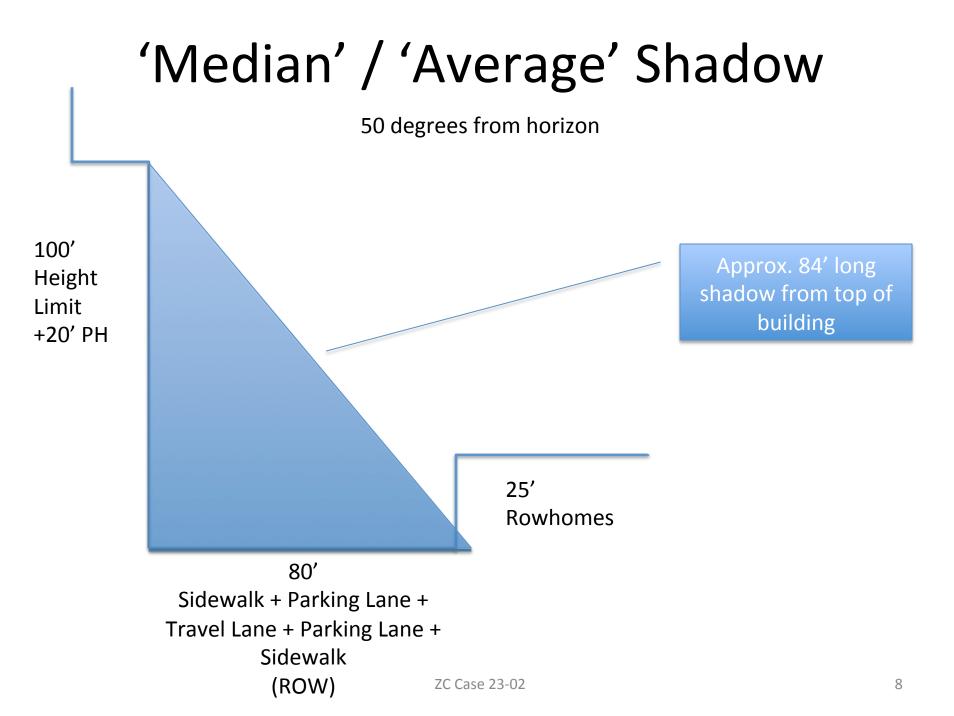


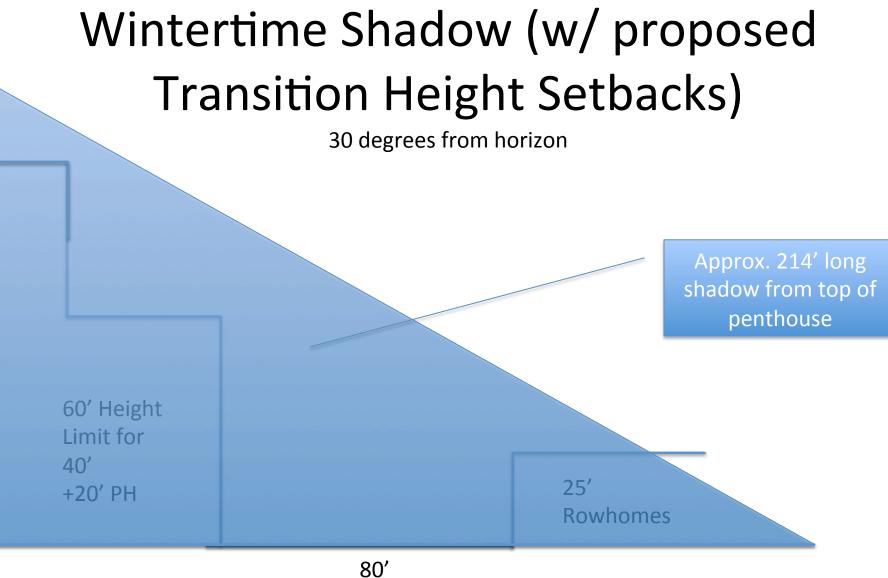




Sidewalk + Parking Lane + Travel Lane + Parking Lane + Sidewalk (ROW) ZC Case 23-02

7





80' Sidewalk + Parking Lane + Travel Lane + Parking Lane + Sidewalk (ROW)^{C Case 23-02}

Context

- Solar panels will be less useful
- Gardens will be at jeopardy
- Seasonal depression will be more likely
- The rowhomes are unable to be re-build to a higher density or height due to the underlying zoning and historical district

Reasonable Compromise?

LOWER HEIGHT LIMIT AND DENSITY IN NEIGHBORHOOD CONSERVATION AREA



Generalized Policy Map

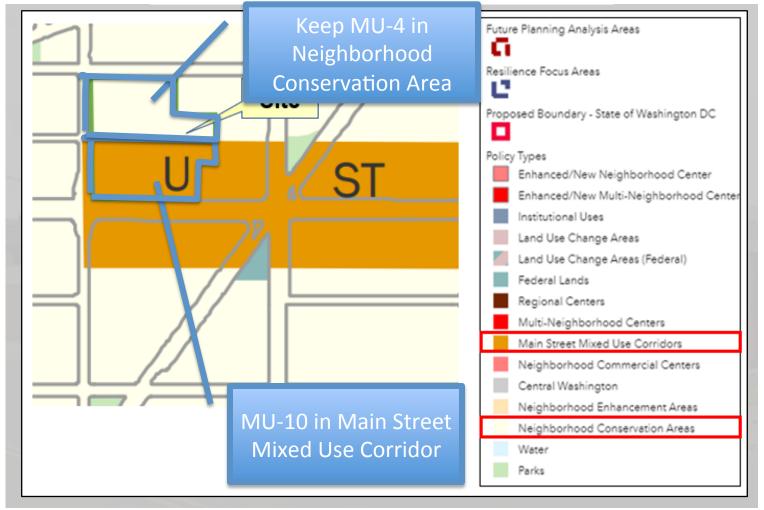


The guiding philosophy in Neighborhood Conservation Areas is to conserve and enhance established neighborhoods, but not preclude development, particularly to address city-wide housing needs [emphasis added] (10A DCMR § 225.5)

Densities in Neighborhood Conservation Areas are guided by the Future Land Use Map and Comprehensive Plan policies (10A DCMR § 225.5)

Reasonable Compromise?

LOWER HEIGHT LIMIT AND DENSITY IN NEIGHBORHOOD CONSERVATION AREA



Wintertime Shadow (w/ proposed Compromise)

30 degrees from horizon

