



Appendix G

Midline Substation Matrix



H-Benning Streetcar

Evaluation Criteria	1215 Wylie St.	1356 H St. NE	RL Christian Library	1113-1177 H St. NE	12th St. ROW
Size Approximately 600 square feet of space required for substation, 825 square feet if below ground.	The Wylie Street property is 825 SF (15 x 55).	The 1356 H Street, NE property is 1,530 SF	The RL Christian Library property is made up of multiple lots totaling approximately 10700 SF.	The 1113 H Street, NE property is 5,456 SF	This property is approximately XX by XX feet,
Operational Impact Evaluation based on access for FEMS and the potential impact on roadway or streetcar operations	Access through narrow alley creates potential access issues for FEMS	No operational impact	No operational impact	High voltage duct bank built into foundation of building - would necessitate building demo in the event of failure of ductbank; narrow alley would limit ability of FEMS to access vault.	No operational impact
Cost Sites owned by the District presumed to be cheaper. Underground facilities have >3x cost	~\$300K in design considerations to mitigate neighborhood concern	2.5x assuming purchase of land and at-grade construction	>3x cost for vaulted construction	>3x cost for vaulted construction	Cheapest alternative: above ground/limited architectural treatment
Community Impact Sites evaluated based on the potential impact to the H St. retail corridor or adjacent residential uses.	Widespread/organized opposition from community; lacks Councilmember support	Located in commercial district. Potential impact on adjacent property owners - creates dead spot in retail strip	Minimal community impact. Sited across all from parking lot. Site recommended by community.	Located in alley across from but not immediately adjacent to existing residential. Community has not been approached about potential	No commercial impact as it is located on undevelopable ROW; limited residential impact as the site is not immediately adjacent to any
Land Use or Planning Development Evaluated based on consistency with current land-use	Vacant Residential - The 1215 property was subject to a potential sale to an adjacent property owner; the substation, however, would offer a much broader use of public land. It would require a variance to construct the substation.	Vacant - Potential Commercial Redevelopment Parcel with frontage on H Street; eliminates potential storefront	Commercial Redevelopment Parcel - The RL Christian Library is ideally situated for mixed-use development that will benefit the entire community.	Vacant - Commercial Redevelopment Parcel. Developer selected for redevelopment of parcel.	ROW that cannot be used for anything other than transportation purpose.
Location A substation is needed approximately every mile along the streetcar route to provide a constant power supply. In this case, the ideal location is close to the streetcar route along H Street NE and between 12th and 14th Streets NE.	Approx. located 425' away from traction power manhole, within mid section	Approx. located 575' away from traction power manhole, within mid section	Approx. located 200' away from traction power manhole, within mid section	Approx. located 800' away from traction power manhole, within mid section - opposite side of street from traction manhole. This would require substantial curb cut within 1 year of resurfacing	Approx. located 300' away from traction power manhole
Owner Sites that are not DC Government property would require a long and costly acquisition process and could delay progress for the entire H/Benning Streetcar project.	DC Government	Privately Owned - Owner Not Approached	DC Government	DC Government	DC Government
Schedule Evaluated against a spring 2012 start of service.	Work on this site could commence as early as December 2010.	Privately Owned - Owner Not Approached	The RL Christian site has environmental issues that would need to be remediated, which would further delay the project as well as increase cost.	Need to coordinate construction with private developer	Work on this site could commence as early as December 2010.

	FULLY Meets the requirements
	MODERATELY Meets the requirements
	RESTRICTED usage. Cannot meet requirements