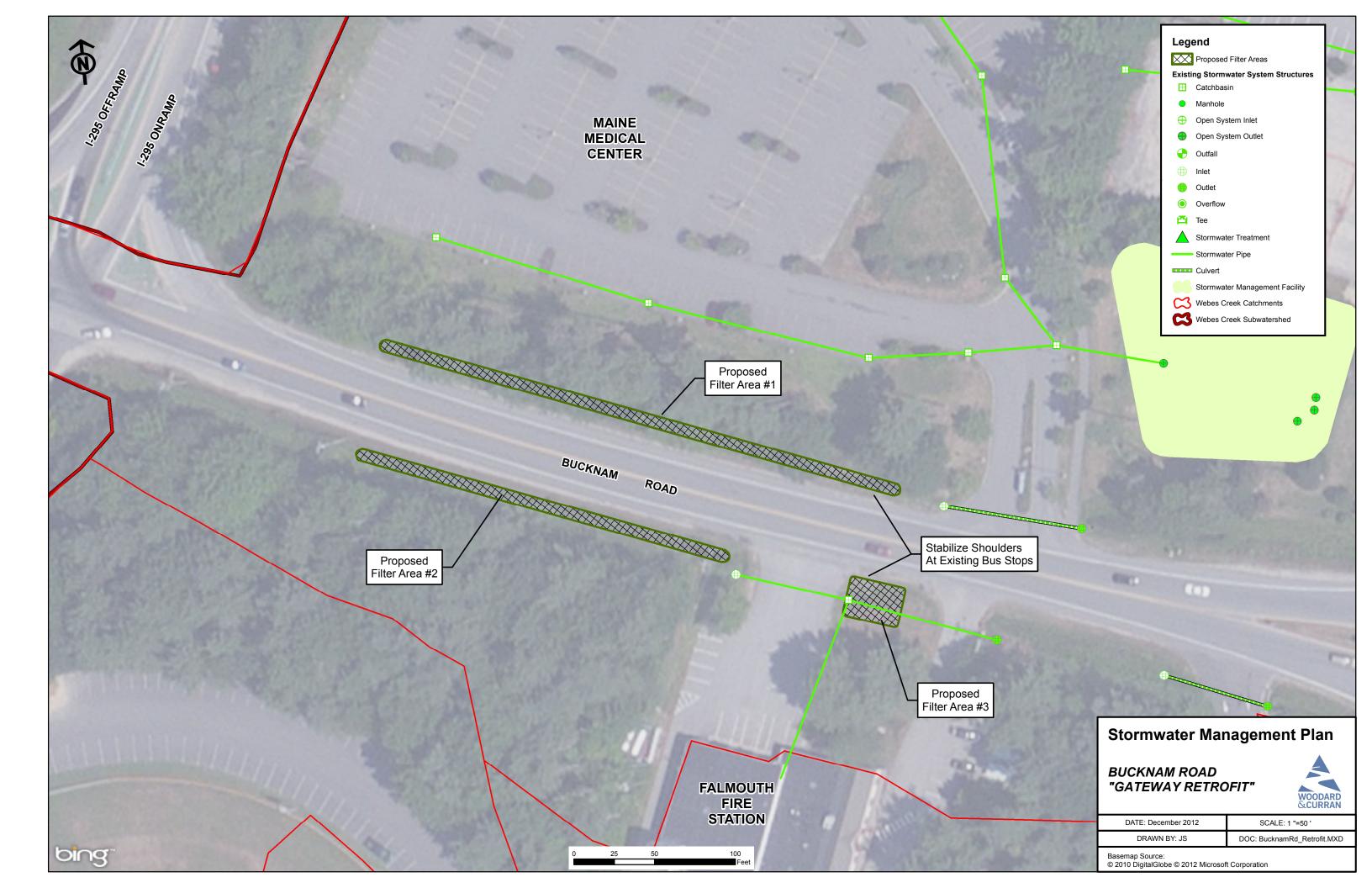


## APPENDIX E: BUCKNAM ROAD GATEWAY RETROFIT CONCEPT

TYLin (225740) Woodard & Curran SWMP January 2013





CLIENT	YLin						_
PROJECT	Falmouth	Rte	1	SW	Pla	v	_
DESIGNED BY	AEA			C	DATE _	12-12-12	
CHECKED BY_	,				DATE _	WY	_
PROJECT NO.	225740	•	SHI	EET NO	. 1	OF Z	

## Bucknam Road Conveyance - Water Quality Sizing & Cost

(Note: These estimates are preliminary) !

\* Area 1:

Watershed = 47,713 SF = 27,648 SF Pervious 20,065 SF Impervious Water Quality Volume (WQV)=(0.5\*Impervious)

-> WQV=[(\frac{0.5}{12}),)(20,065 SF)] = 1836 CF

Assuming 4" deep Swales,

Aregid WQU = 1836 CF = 2,508 SF

Available Space = 3,135 SF / OK

Approximate Cost per SF of Filtration Swale = \$15/sF \*Note: Unit cost from Stormwater Retrofit Cost estimate - Appendix D of Route 1 Follmouth Commercial District Stormwater Management Plan

... Cost = \$15 x 2,508 SF = \$ 37,620

\*Area 2:

Watershed = 61,328 SF = 46,994 SF Pervious

14,334 SF Impervious

-> WQV = [(%)/14,334 SF)]

= 597 CF

-> Aregid = 597 CF : 1,791 SF

Available Space = 12,685 SF

VOK



CLIENT 1/LIM	
PROJECT Folmouth Rte 1	SW Plan
DESIGNED BY AEA	DATE 12-12-12
CHECKED BY	DATE
PROJECT NO. 225740	_SHEET NO. 2 OF 2

Bucknam Road Conveyance - Water Quality Sizing & Cost \*Area 2 Contid...

\* Area 3: