



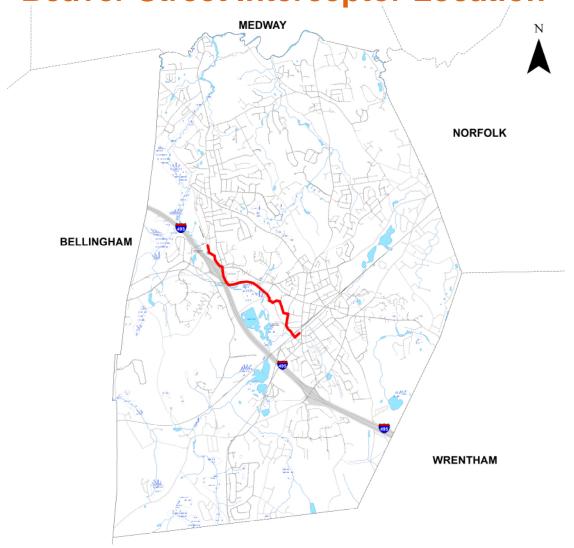
#### BEAVER STREET INTERCEPTOR REPLACEMENT

Alternatives Analysis Franklin Town Council Meeting – October 21, 2020



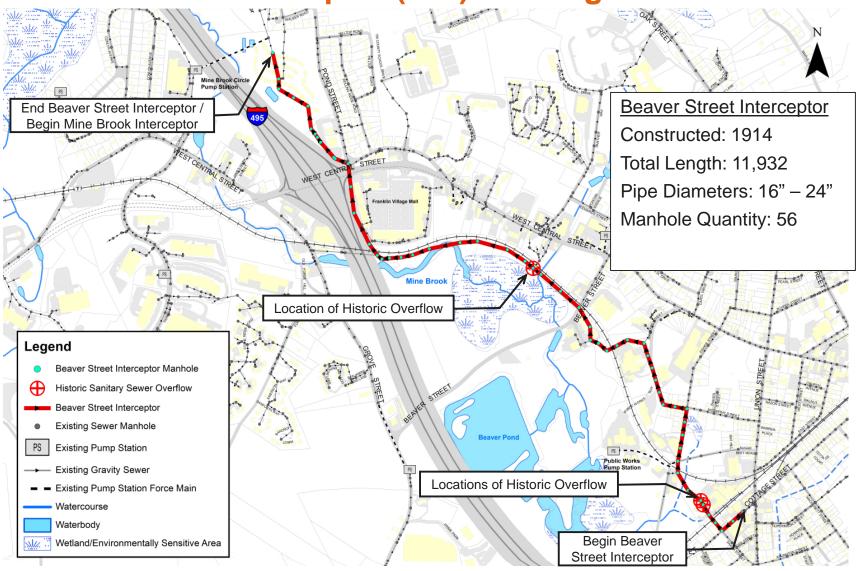






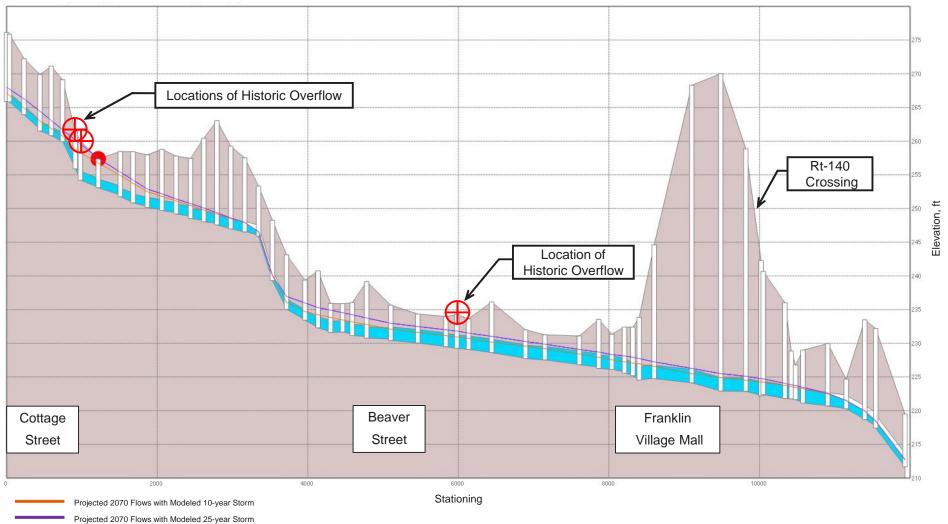


#### **Beaver Street Interceptor (BSI) Existing Conditions**



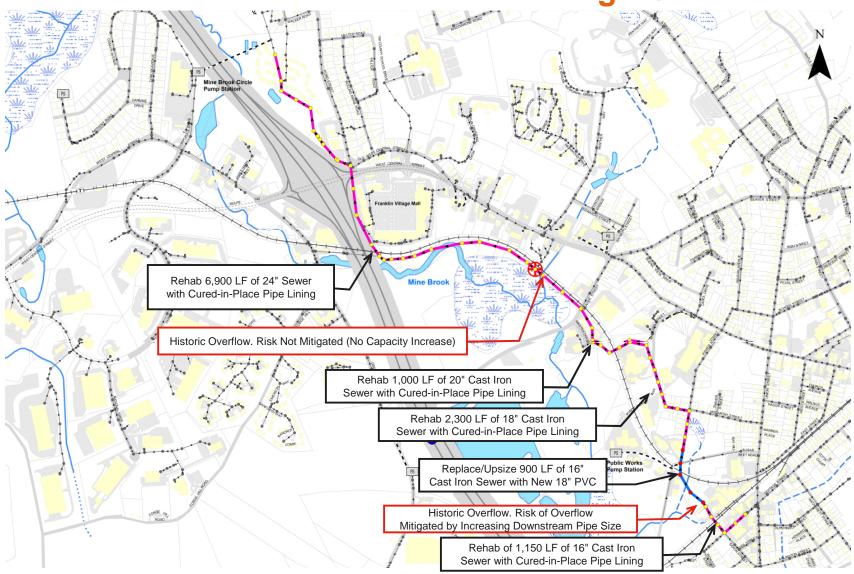


# Existing Profile and Hydraulic Model at 50-year Buildout 10-year and 25-year Storm Events



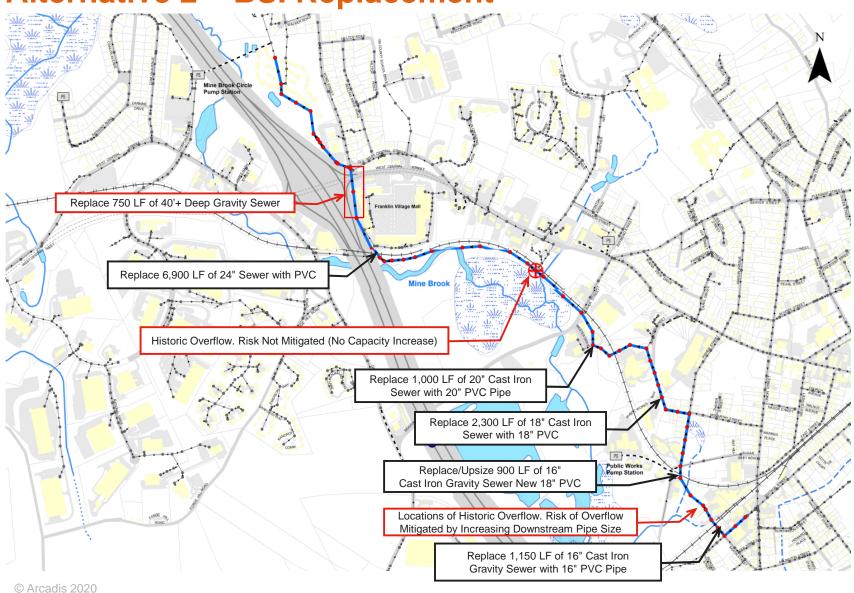


## **Alternative 1 – Rehabilitation of Existing BSI**



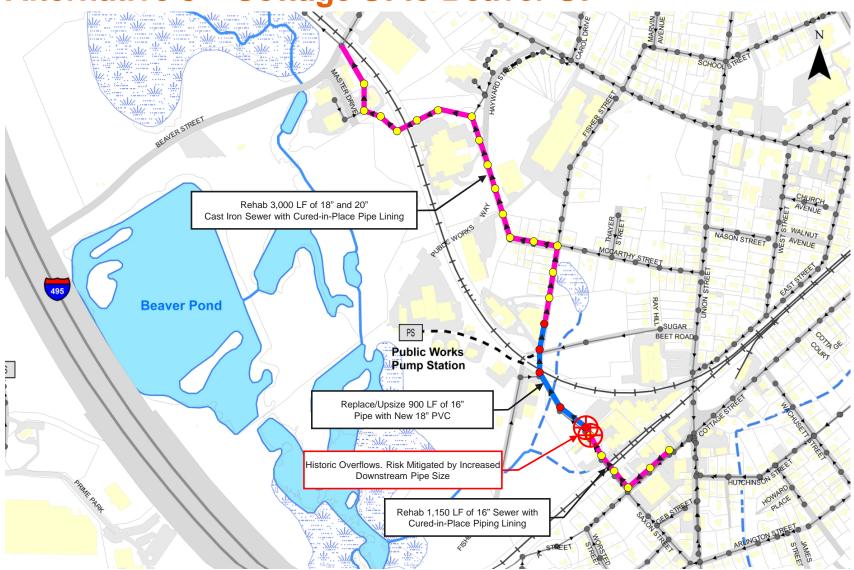


**Alternative 2 – BSI Replacement** 



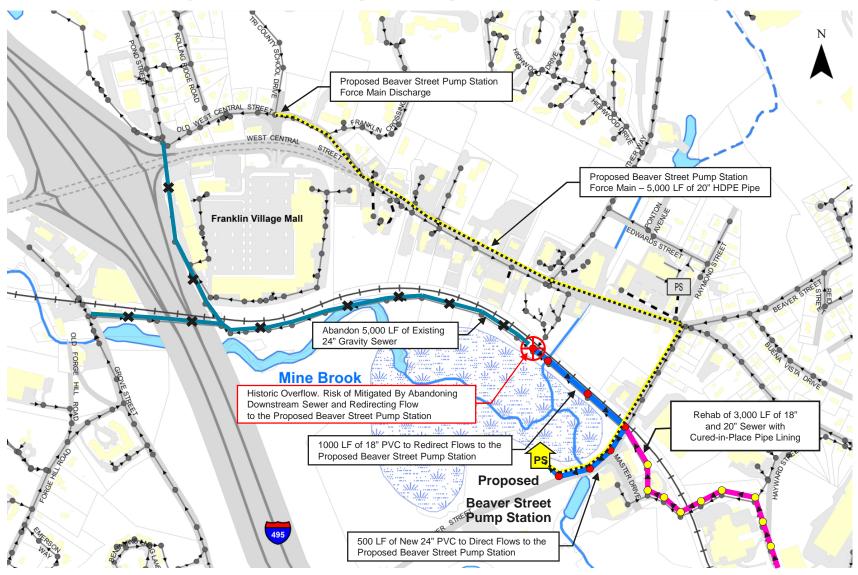


## Alternative 3 – Cottage St to Beaver St



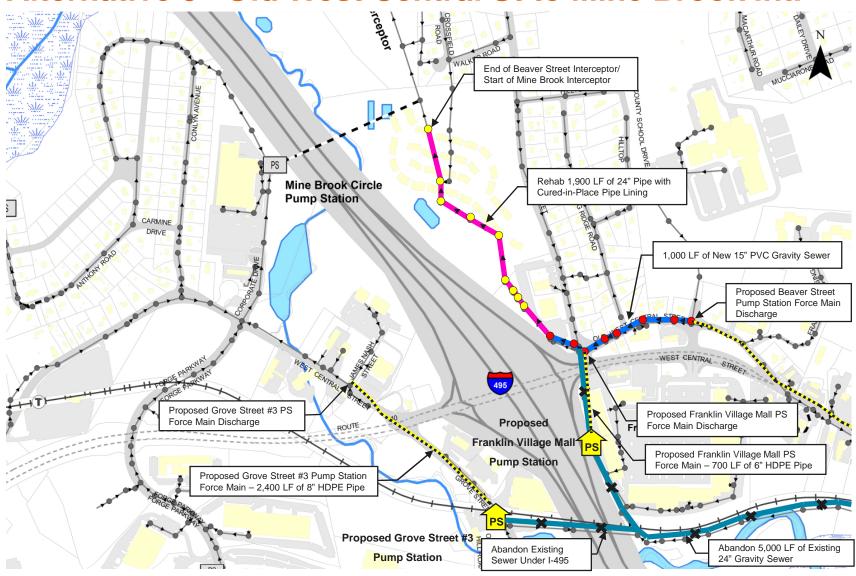


#### Alternative 3 – Beaver St. to Old West Central St.





## Alternative 3 -Old West Central St to Mine Brook Int.





# **Project Cost Estimates and Comparison of Alternatives**

Alternative	Cost Estimate	
Alternative 1 – Rehabilitation of Existing BSI	\$9M	
Alternative 2 – BSI Replacement	\$13M	
Alternative 3 – Rehabilitation and Realignment of BSI	\$25M	

Parameter	Relative Weight or Level of Importance	Alternative 1	Alternative 2	Alternative 3	
Construction Cost	20%	5	3	2	
Reliability of Design/Operation	10%	3	2	5	
Risk of Overflows	20%	2	3	5	
Environmental Concerns/Risk	15%	2	1	5	
Maintenance	10%	3	3	2	
Accessibility/Easements	15%	1	1	4	
Impacts to Residents/Businesses	5%	4	4	3	
Permitting Requirements	5%	2	1	3	
	100%				
•	Weighted Average	2.8	2.3	3.8	
1 - Highly Disadvantageous , 2 – Disadvantageous, 3 – Neutral, 4 – Advantageous, 5 - Highly Advantageous					



# **QUESTIONS**

