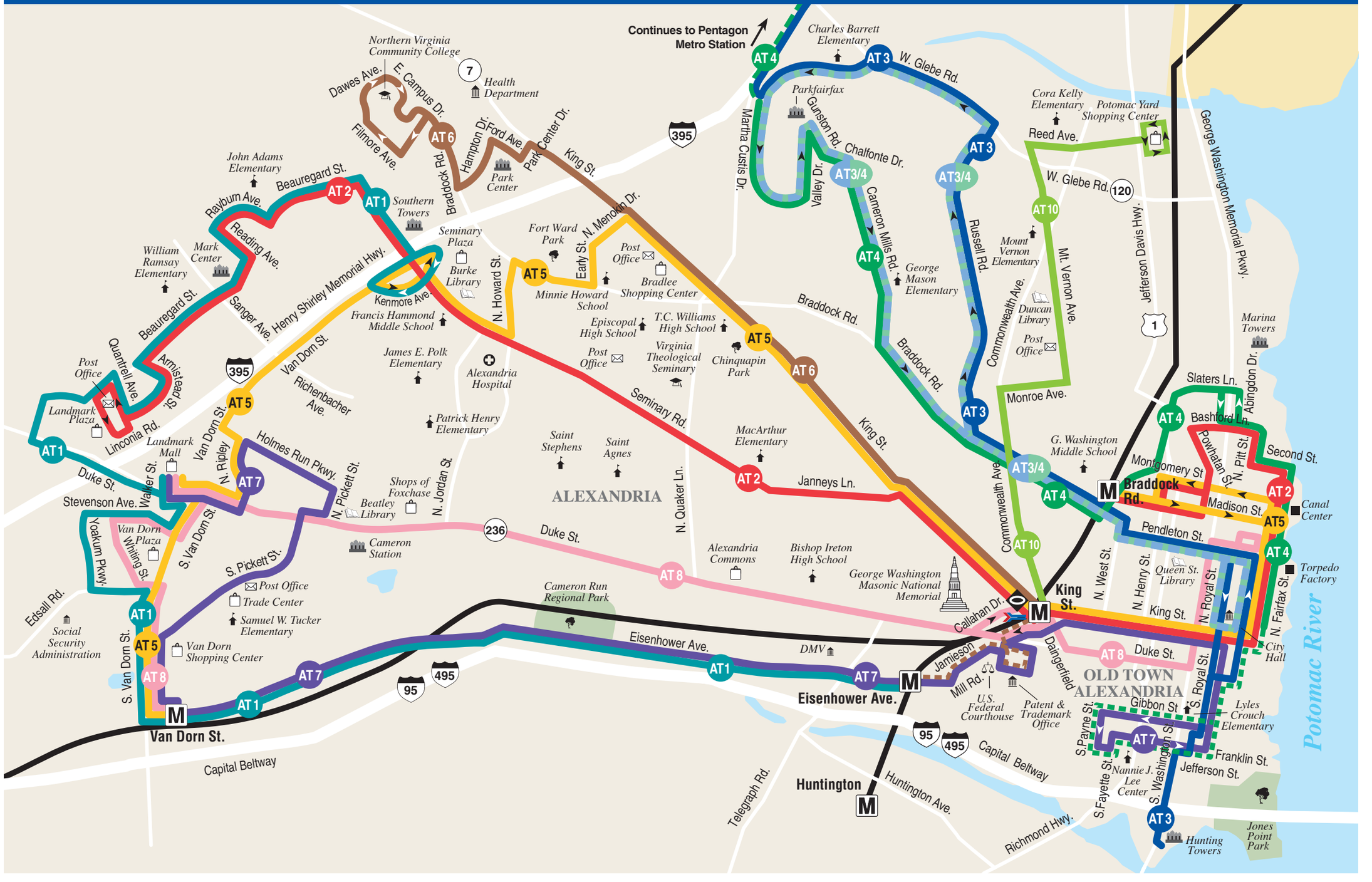DASH SYSTEM MAP