The Staten Island Railway operates 24 hours a day, seven days a week. Fares are only collected at Tompkinsville and St. George.

Service operates as follows:
Peak Periods: Trains operating to and from Tottenville run express in the peak direction between Great Kills and St. George, while local service originates and terminates at Great Kills. This describes most rush hour services, there are some others that bypass other stops, refer to the current schedules for complete details.

Off-Peak Hours: All service operates local between St. George and Tottenville.

On days where the Staten Island Yankees play home games at Richmond County Bank Ball Park, main line service and a shuttle from St. George operate to and from the Ballpark station.