

PL202000133  
PL2020-133  
8525 and 8545 Penn Ave S

## Memorandum

**TO:** Londell Pease, Senior Planner  
City of Bloomington  
1800 W Old Shakopee Rd  
Bloomington, MN 55431

**FROM:** Patrick Sarver, RLA  
Civil Site Group

**DATE:** 08/05/2020

**RE:** Written Response to Bloomington City Review:  

- Anticipated trip generation based on the most recent edition of the ITE Trip Generation Manual
- Anticipated peak hour and average day water demand and wastewater flow.

### Anticipated trip generation based on the most recent edition of the ITE Trip Generation Manual

The number of trips anticipated to be generated by the proposed development have been calculated based on the methodology recommended by the Institute of Transportation Engineers (ITE) in *Trip Generation*, 6th Edition. In Trip Generation, the proposed development would fit within the Land Use Code for Multifamily Housing - Low Rise, 220. The Table below summarizes the trip generation estimates for the proposed development.

Land Use	ITE Code	Size	AM Enter	AM Exit	PM Enter	PM Exit	Daily
Townhouse	220	15 Units	2 trips	5 trips	5 trips	3 trips	110 trips
<b>Total New Trips</b>			<b>7 Trips</b>		<b>8 Trips</b>		<b>110 trips</b>

### Anticipated peak hour and average day water demand and wastewater flow.

The peak hour and average day water demand and wastewater flow for townhomes are generally calculated at 100 gallons per person of water per day, at 2.5 persons per townhome unit. The Table below summarizes the water demand and wastewater flow for the proposed development.

Land Use	Units	Persons per Unit	Average Day Water Demand and Wastewater Flow (gal./person/day)	Project Total Average Day Water Demand and Wastewater Flow (gal./day)	Peak Hour Water Demand and Wastewater Flow (gal./hr)
Townhouse	15	2.5	100	3750	625