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VC-22-0018

September 27, 2022

Trip Generation Statement  
Chabad of North Fulton  
10180 Johns Bridge Road  
Ingenium Project No.: 200088

Narrative:

As requested, this memorandum relates to the Trip Generation and impact for the proposed improvements at the Chabad of North Fulton Complex.

The analysis includes:

- A Trip Generation for the existing conditions
- A Trip Generation for the proposed conditions
- Notes and Assumptions

Trip Generation:

See attached trip generation from the ITE Trip Generation Manual 11<sup>th</sup> Edition.

For purposes of this report, land uses for the project are categorized as follows:

Synagogue	561 – Synagogue
Daycare	565 – Day Care Center
Recreation Fields & Outdoor Basketball Court	488 – Soccer Complex
Gym	493 – Athletic Club
Guest Houses	210 – Single-Family Detached Housing

Notes and assumptions:

1. It shall be noted that the improvements proposed by this project are only to enhance the existing facility, and do not aim to attract more members for the Chabad. The resulting number of trips generated in this report for the proposed condition are likely inflated due to an increase in amenities, however, the use and membership of the Chabad will not dramatically increase due to this project.
2. Many of the members of this community adhere to the strict religious and cultural tradition of not driving on days of worship and holidays. Therefore, a reduction of 33% (approximately 1/3) was applied to the number of trips generated to approximate the number of the people in the community who walk to the Chabad to attend worship. The reduction has been applied to trips occurring on Saturday and trips to attend worship at the synagogue on Friday.
3. The ITE code that most closely matches this use is Soccer Complex – 488. However, the fields are much smaller than an average soccer field and will not be used for organized sports. Therefore, to most accurately capture the number of trips generated



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for these multi-purpose recreation fields, the number of fields used has been adjusted to reflect the square footage of fields at the Chabad compared to a soccer field. For purposes of this report, the outdoor basketball court has also been included in the soccer fields category since it will be used in a similar manner to the multipurpose fields.

The existing site only contains one small field just west of the synagogue. In the proposed condition, there are three small fields west of the synagogue and one larger field at the north end of the site. The total area of outdoor recreation space in the proposed condition is 74,624 square feet, which is slightly larger than one soccer field. Based on the combined size of the fields and basketball court, one field has been used for the existing condition trip generation calculation, and two fields have been used for the proposed condition trip generation calculation, conservatively.

The playing fields, outdoor basketball court, and indoor gym are mostly intended to be used as an extension of children's programs at the Chabad. This includes the daycare throughout the year and the day camp that occurs during the summer for five weeks. Considering this, many of the children that use the recreation facilities are there with their parents for another reason than to strictly use the fields, court, and gym. Therefore a 50% reduction for this use has been applied to account for internal trip capture for these uses.

4. Note that AM and PM data is not currently available for Saturday for the Synagogue land use category. Therefore, this report only contains Saturday peak hour data.
5. On Saturdays, the primary use for the facility is worship in the Synagogue. There are no sports or other recreation activities on these days and anyone who would participate in daycare would already be at the Chabad for worship. Therefore, daycare, soccer complex, and athletic club are not included in the Saturday calculation. Similarly, there is worship on Friday evenings also, prohibiting the other activities listed here. The guest houses have also been excluded from the trip generation calculations for Saturday, as many of the people who would be using them would not use a car in observance of religious tradition.
6. Note that Friday AM Peak hour data is not currently available for the land uses considered in this report. Therefore, weekday AM peak data has been used in the results table for Friday, conservatively.
7. To more accurately capture the number of trips generated by the future gym, the Athletic Club land use category has been used. The density considered correlates to the number of members in the Chabad community. Total daily trip data is not currently available for the Athletic Club use category (Future Gym). Therefore, for the purposes of this report, daily trip results have been estimated based on the other recreational use results.
8. Total daily trip data is not currently available for the Synagogue land use category. Therefore, data from the Church land use category for an equivalently sized church was used to estimate daily trips for the Chabad Synagogue. The ratio of Sunday peak hour to Sunday daily total from the Church results was applied to the Synagogue Friday and Saturday peak hour totals. From there the total daily trip count was evenly distributed to entry and exit.
9. Total daily trip data is not currently available for Friday for all uses. Therefore, daily trip results from weekday results have been used for Friday for the following land uses – Daycare, Guest Houses, Recreation Fields/Basketball Court, and Gymnasium. Trips associated with the recreation facilities have been decreased by 1/3 conservatively since they will not be in use during worship on Friday evenings.



10. The guest houses mentioned in this report are not occupied often or continuously. They are used primarily to house visiting speakers, scholars, and other guests of the Chabad. Generally, the maximum amount of people that would stay in each house is one family at a time, up to about 10 people. Many of the guests only stay from Friday to Sunday, remain on the campus for most of that time, and would likely not use a car for most of their stay. Therefore, the guest houses have not been included in the Saturday trip calculations.

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Trip Generation Results:

The following tables provide trip generation results for the existing condition.

Table 1: Weekday (Existing)													
Land Use	Density	ITE Code	Daily Trips			AM Peak Hour			PM Peak Hour				
			Enter	Exit	Total	Enter	Exit	Total	Enter	Exit	Total		
Daycare	22 Students	565	63	63	126	12	11	23	4	5	9		
Guest Houses <sup>10</sup>	3 Dwelling Units	210	20	20	40	2	7	9	3	1	4		
Recreation Fields and Basketball Court	1 Field <sup>3</sup>	488	18	18	36	1	1	2	4	5	9		
Total Daily Trips					202	Total AM Peak Trips			34	Total PM Peak Trips			22

Table 2: Friday (Existing)													
Land Use	Density	ITE Code	Daily Trips <sup>8,9</sup>			AM Peak Hour			PM Peak Hour				
			Enter	Exit	Total	Enter	Exit	Total	Enter	Exit	Total		
Synagogue	120 Member Families	561	28	28	56	0	0	0	12	9	21		
Daycare	22 Students	565	63	63	126	12	11	23	4	5	9		
Guest Houses <sup>10</sup>	3 Dwelling Units	210	20	20	40	2	7	9	3	1	4		
Recreation Fields and Basketball Court	1 Field <sup>3,9</sup>	488	12	12	24	1	1	2	0	0	0		
Total Daily Trips					208	Total AM Peak Trips			34	Total PM Peak Trips			34

\*Note: 33% reduction applied for Synagogue use only.

Table 3: Saturday (Existing)								
Land Use	Density	ITE Code	Daily Trips <sup>8</sup>			Peak Hour <sup>4</sup>		
			Enter	Exit	Total	Enter	Exit	Total
Synagogue	120 Member Families	561	34	34	68	9	13	22
Guest Houses <sup>10</sup>	3 Dwelling Units	210	11	11	22	5	4	9
Total Daily Trips					90	Total Peak Trips		31

\*Note: 33% reduction applied for all uses.



Table 4, 5, and 6 provide trip generation results for the proposed condition.

Table 4: Weekday (Proposed)												
Land Use	Density	ITE Code	Daily Trips			AM Peak Hour			PM Peak Hour			
			Enter	Exit	Total	Enter	Exit	Total	Enter	Exit	Total	
Daycare	22 Students	565	63	63	126	12	11	23	4	5	9	
Guest Houses <sup>10</sup>	2 Dwelling Units	210	14	14	28	2	6	8	2	1	3	
Recreation Fields and Basketball Court	4 Fields and 1 Court <sup>3</sup>	488	36	36	72	1	1	2	8	9	17	
Gymnasium <sup>7</sup>	300 Members	493	30	18	48	15	11	26	30	18	48	
Total Daily Trips					274	Total AM Peak Trips			59	Total PM Peak Trips		77

Table 5: Friday (Proposed)												
Land Use	Density	ITE Code	Daily Trips <sup>8,9</sup>			AM Peak Hour			PM Peak Hour			
			Enter	Exit	Total	Enter	Exit	Total	Enter	Exit	Total	
Synagogue	120 Member Families	561	28	28	56	0	0	0	11	7	18	
Daycare	22 Students	565	63	63	126	12	11	23	4	5	9	
Guest Houses <sup>10</sup>	2 Dwelling Units	210	14	14	28	2	6	8	2	1	3	
Recreation Fields and Basketball Court	4 Fields and 1 Court <sup>3,9</sup>	488	24	24	48	1	1	2	0	0	0	
Gymnasium <sup>7</sup>	300 Members	493	18	18	36	15	11	26	0	0	0	
Total Daily Trips					294	Total AM Peak Trips			59	Total PM Peak Trips		30

\*Note: 33% reduction applied for Synagogue use only.

Table 6: Saturday (Proposed)								
Land Use	Density	ITE Code	Daily Trips <sup>8</sup>			Peak Hour <sup>4</sup>		
			Enter	Exit	Total	Enter	Exit	Total
Synagogue	120 Member Families	561	34	34	68	9	13	22
Guest Houses <sup>10</sup>	2 Dwelling Units	210	7	7	14	6	5	11
Total Daily Trips					82	Total Peak Trips		33

\*Note: 33% reduction applied for all uses.



The following table provides a summary of the data shown above, comparing the trips generated for the existing and proposed conditions.

Table 7: Summary of Change in Vehicle Trips from Existing to Proposed			
Time Period	Existing Total Trips	Proposed Total Trips	Difference
<i>Weekday AM Peak</i>	34	59	+25
<i>Weekday PM Peak</i>	22	77	+55
<i>Friday AM Peak</i>	34	59	+25
<i>Friday PM Peak</i>	34	30	-4
<i>Saturday Peak</i>	31	33	+2

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