

TMS Engineers, Inc.

Transportation Management Services

2112 Case Parkway South, #7 • Twinsburg, Ohio 44087

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October 31, 2025

Mr. Bradley Kosco, P.E., P.S.
City of Hudson
1140 Terex Road
Hudson, Ohio 44236

**Re: Proposed Robinson Park Parking Lot
Hudson, Ohio
Trip Generation Analysis**

Dear Mr.Kosco:

The City of Hudson is proposing a parking area for Robinson Field Park. The park is approximately 30 acres in size and is currently undeveloped. The park will have no site amenities such as playgrounds, ball fields, walking trails, etc. It is located on the corner of Stow Road and Ravenna Street. See attached **Figure 1, Location Map**.

A site plan has been developed that shows the installation of a parking lot that will have a 5,000 square foot paved area of drive and parking. It is proposed that the parking area is to have 3 parking spaces. The site plan can be seen in **Figure 2**.

This letter is being furnished as part of the City's self-evaluation of the proposed parking lot construction. A trip generation analysis is being provided to estimate the traffic that will be generated by the site in order to determine if the proposed number of parking spaces will be adequate. The following are the results of the trip generation analysis.

SITE GENERATED TRAFFIC

Calculating future total driveway trips requires an estimate of the traffic generated by the proposed parking lot. The most widely accepted method of determining the amount of traffic that the park will generate is to compare the proposed land use with existing facilities of the same use. The Institute of Transportation Engineers (ITE) has prepared a document titled "**Trip Generation Manual**", which is a compilation of similar traffic generation studies to aide in making such a comparison.

The trip generation manual contains studies for public parks. However, these studies include parks with active amenities which would not be applicable to Robinson Field Park which does not. Therefore other methods for predicting future generated traffic must be used.

The Wildlife Woods Park is located on Boston Mills Road in the Village of Peninsula and is similar to Robinson Field Park in that it has limited amenities. It is 58 acres in size and almost twice the size of Robinson Field Park.

A turning movement count was performed during the morning and evening peak hour periods at the Wildlife Woods Park by the City of Hudson Engineering staff in order to provide an estimate of future driveway trips for the subject Hudson park. The highest amount of trips during a single hour in both the AM and PM peak periods will be considered the AM and PM peak hour site generated traffic for the proposed Robinson Field Park parking lot.

PROPOSED TRIP GENERATION CALCULATIONS

Based on the previously discussed trip generation analysis procedures, the table below shows the estimated site generated traffic during the AM and PM peak hours of the adjacent streets for the proposed parking lot. A copy of the Wildlife Woods Park counts can be seen in **Appendix A**.

NEW TRIP GENERATION

DESCRIPTION	TRIP ENDS			
	Weekday AM Peak Hour of Adjacent Streets (Enter/Exit)		Weekday PM Peak Hour of Adjacent Streets (Enter/Exit)	
Robinson Park Parking Lot	2	0	1	0
TOTAL SITE GENERATED TRIPS	2		1	

CONCLUSIONS

The previous table shows that the proposed parking lot is expected to generate a total of 2 trips in the AM peak hour and 1 trip in the PM peak hour. It is our opinion that, when the anticipated changes in traffic volumes are at these levels, the traffic generated by the parking lot should not have an impact on the surrounding street network system. It is also our opinion that since the Wildlife Woods Park is twice the size as Robinson Park, the number of trips shown provides a conservative estimate of trips for the proposed park.

It should be noted that traffic impact studies are recommended to be performed by the **Institute of Transportation Engineers** whenever the number of trips in any peak hour is greater than 100 trips per hour. This recommendation is made because this is the point where a change in roadway capacity may be found and mitigation may or may not be needed. The anticipated generated volumes for the parking lot are less than daily variations in the current volumes on the local roadway network and should not be perceived by the traveling public.

Mr. Brad Kosco
October 31, 2025
Page 3

The Ohio Department of Transportation concedes that traffic studies are only necessary when the number of trips are more than 60 trips in either of the peak hours. This is stated in their **State Highway Access Management Manual**. Since the proposed parking lot is expected to generate less than 60 trips, it is our professional opinion that the change in the amount of generated traffic will **not** have an impact on the surrounding roadway network nor require a traffic analyses.

It is our opinion that the proposed number of parking spaces shown in the site plan will be adequate for the Robinson Park under the current conditions.

If you have any questions or need additional information, please do not hesitate to contact me.

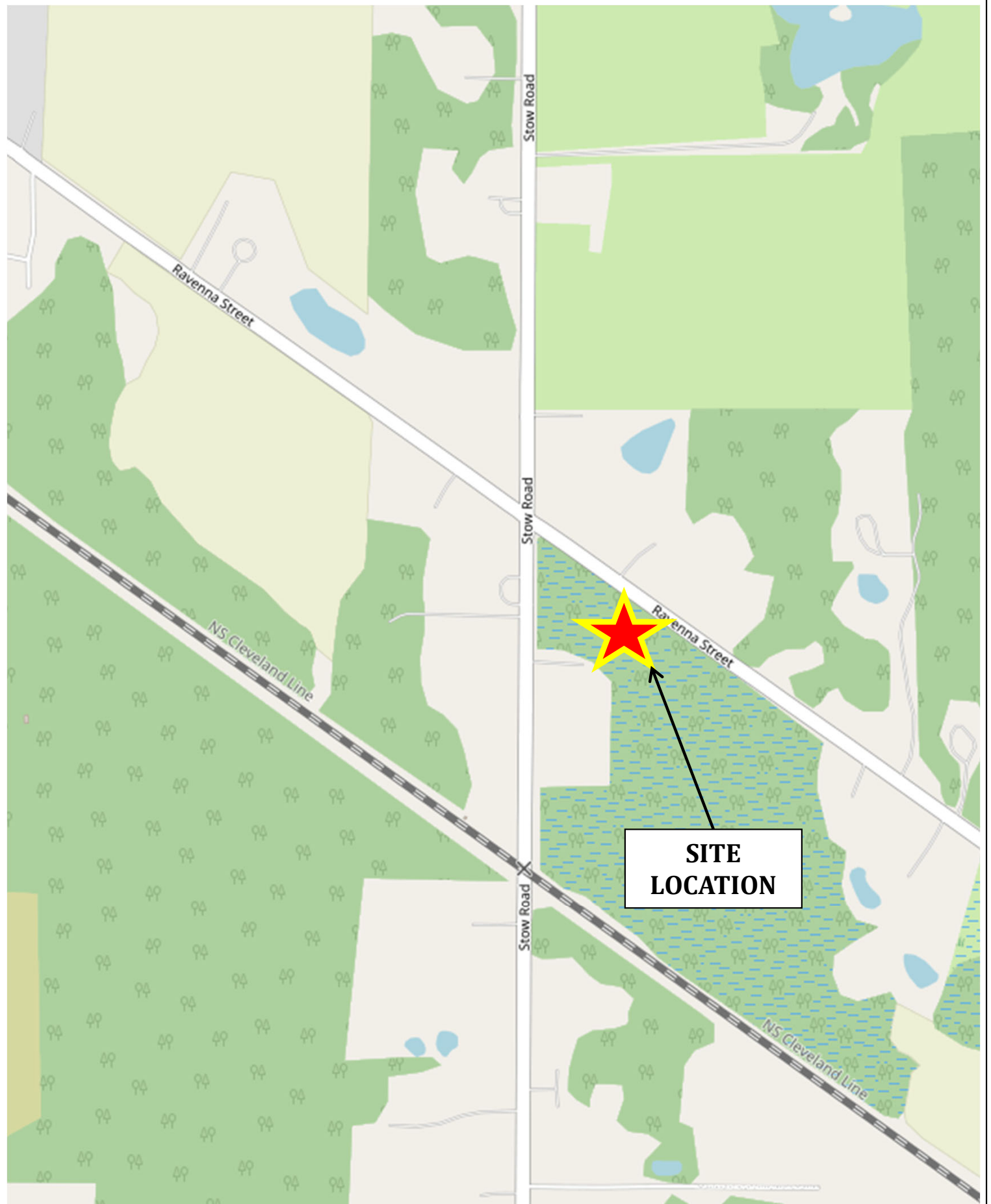
Very truly yours,

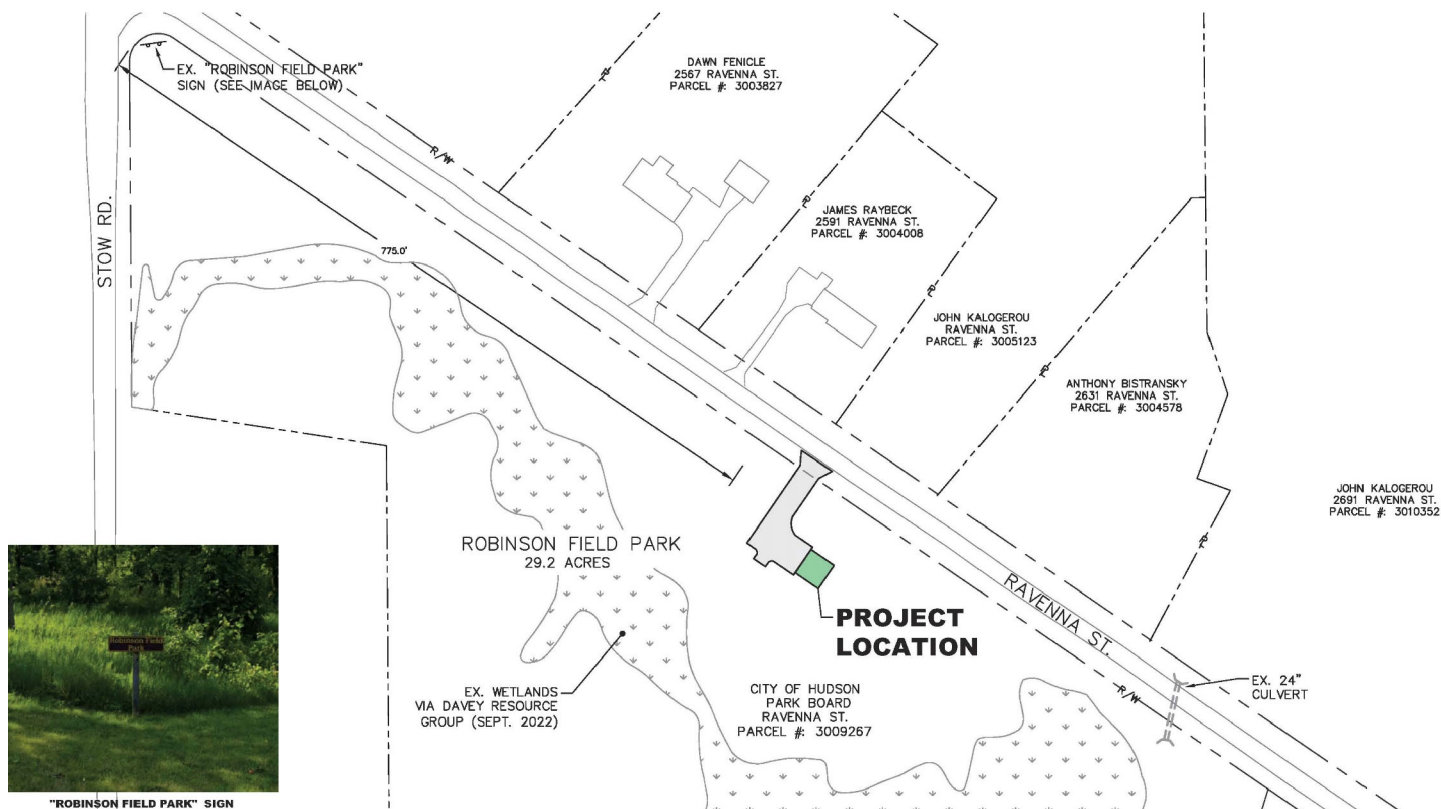
TMS Engineers, Inc.



Michael W. Schweickart, P.E., PTOE
President







Appendix A
Trip Generation Worksheets

Pedestrian Count Wildlife woods				
Date: Tuesday, 10/28/2025				
Weather: 39* and clear to 44* and clear				
Time Period: 7:10am-9:10am				
Count Performed by: L Gulas				
Time	# People	Desc ("special")	Direction (leaving or Arriving?)	# of Cars
7:20	0	NA	NA	0
7:30	0	NA	NA	0
7:40	0	NA	NA	0
7:50	0	NA	NA	0
8:00	0	NA	NA	0
8:10	0	NA	NA	0
8:20	0	NA	NA	0
8:30	0	NA	NA	0
8:40	0	NA	NA	0
8:50	1	2 dogs	Arriving	1
9:00	0	NA	NA	0
9:10	1	dog	Arriving	1
9:20	0	NA	NA	0
Total	2			

Pedestrian Count Wildlife woods				
Date:		Tuesday, 10/28/2025		
Weather:				
Time Period:		4:00pm-6:00pm		
Count Preformed by:		Joe Andrassy		
Time	# People	Desc ("special")	Direction (leaving or Arriving?)	# of Cars
4:00	0	NA	NA	0
4:10	1	NA	Ariving	1
4:20	0	NA	NA	0
4:30	0	NA	NA	0
4:40	0	NA	NA	0
4:50	0	NA	NA	0
5:00	0	NA	NA	0
5:10	0	NA	NA	0
5:20	1	1 dog	Arriving	1
5:30	0	NA	NA	0
5:40	0	NA	NA	0
5:50	0	NA	NA	0
	0	NA	NA	0
Total	2			