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**March 20, 2019**

Mr. John J. Mezzanotte, Jr., Esquire

Barnard, Mezzanotte, Pinnie & Seelaus, LLP  
218 West Front Street  
Media, PA 19063

**RE: Traffic and Circulation Figures – Conditional Use**

Westtown School Oak Lane Project

*Westtown Township, Chester County, PA*

TPD No. WESC.00003

Dear Mr. Mezzanotte:

As requested, TPD has conducted additional data collection and prepared figures to further demonstrate proposed traffic conditions relative to the Oak Lane Athletic Fields Improvement project at the Westtown School. We have prepared figures illustrating the current AM peak traffic volume conditions and associated queue length on the Oak Lane approach at the Westtown Road/ Oak Lane intersection, and the proposed circulation and traffic control measures for the improved parking area. The two figures (Figures A and B respectively) attached illustrate in further detail the topics pertaining the analysis.

TPD observed traffic conditions and performed traffic counts between 730am and 830am on Friday March 8<sup>th</sup>, 2019 at the Westtown Road/ Oak Lane intersection. Figure A summarizes the counts. This was to observe peak arrival and departure operations for Westtown School while peak traffic volumes occurred on Westtown Road. The observed traffic volumes for both Oak Lane and Westtown Road were very similar to the proposed conditions expected during peak turnover times for the proposed evening practices. The maximum observed queue for exiting vehicles on the Oak Lane approach was two vehicles. The counts were analyzed using the Highway Capacity Software, and included an analysis assuming all of the Oak Lane entering and exiting traffic did so within a 30 minute period against the peak Westtown Road traffic. The analyses showed operations of Level of Service (LOS) A for all movements during the observed count period and the 30 minute analysis. Based on these traffic observations and analyses, we are confident that the expected traffic from the night practices will not result in excessive queues on Oak Lane that would block the proposed parking lot entrances or cause safety or operational issues at the Oak Lane/Westtown Road intersection.

Figure B shows the proposed parking lot design, circulation and traffic control devices. We have graphically illustrated the observed AM peak period exiting maximum queue length.

Oak Lane is an existing 20 foot wide private driveway that provides for two way traffic. The AASHTO publication "A Policy on Geometric Design of Highways and Streets, 7<sup>th</sup> Edition, 2018" states that 20 feet is an acceptable width for two lane local roads in rural areas with a design speed up to 40 mph and daily traffic volumes between 400 and 2000 vehicles per day (Table 5-5). Given that Oak Lane is an existing private driveway intended for low speed operation, serves only Westtown School and has no other connection to the local street network, the 20 foot cartway width is appropriate. The 20 foot width provides a measure of traffic calming to ensure vehicles travel at a slow and safe speed on the Westtown School campus.

There are two proposed parking lot entrances, with the western entrance as entrance only, as it is approximately 90 feet from the Oak Lane/Westtown Road intersection. The eastern site entrance provides full movements for entering and exiting vehicles. The parking lot provides a 24' drive aisle, and a loading/unloading area. All traffic will exit the parking lot from the eastern entrance, which is approximately 540 feet from the Oak Lane/Westtown Road intersection. The driveways have been designed to accommodate the largest single unit emergency vehicle that would be dispatched to the site as dictated by Westtown Township.

Please contact me if you have any questions regarding the above information pertaining to this project.

Sincerely,

TRAFFIC PLANNING AND DESIGN, INC.

A handwritten signature in black ink, appearing to read "Alex Meitzler". The signature is fluid and cursive, with the first name "Alex" and last name "Meitzler" clearly distinguishable.

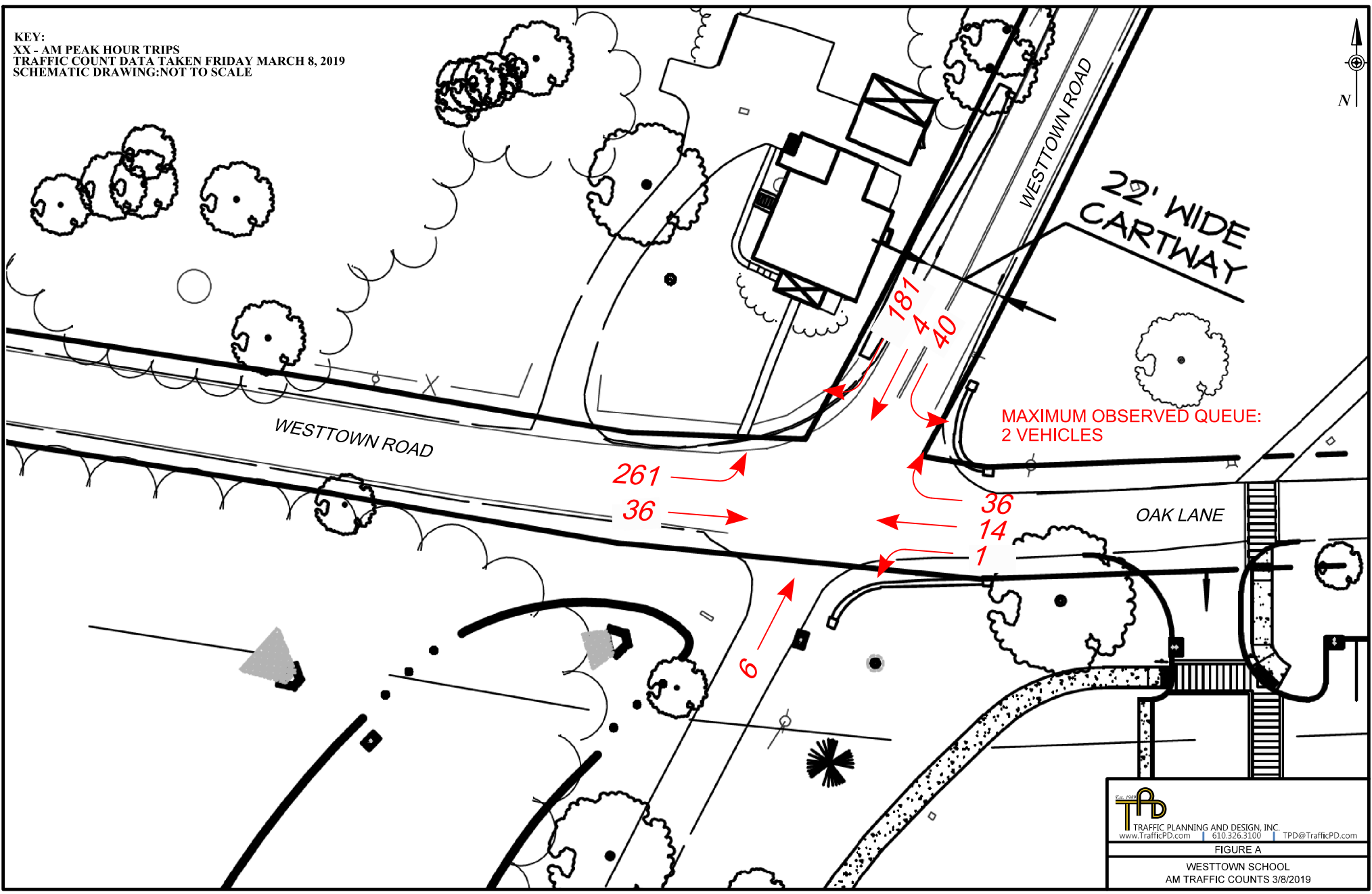
Alex Meitzler, PE, PTOE

Senior Project Manager

ameitzler@TrafficPD.com

Enclosures: Figures A and B

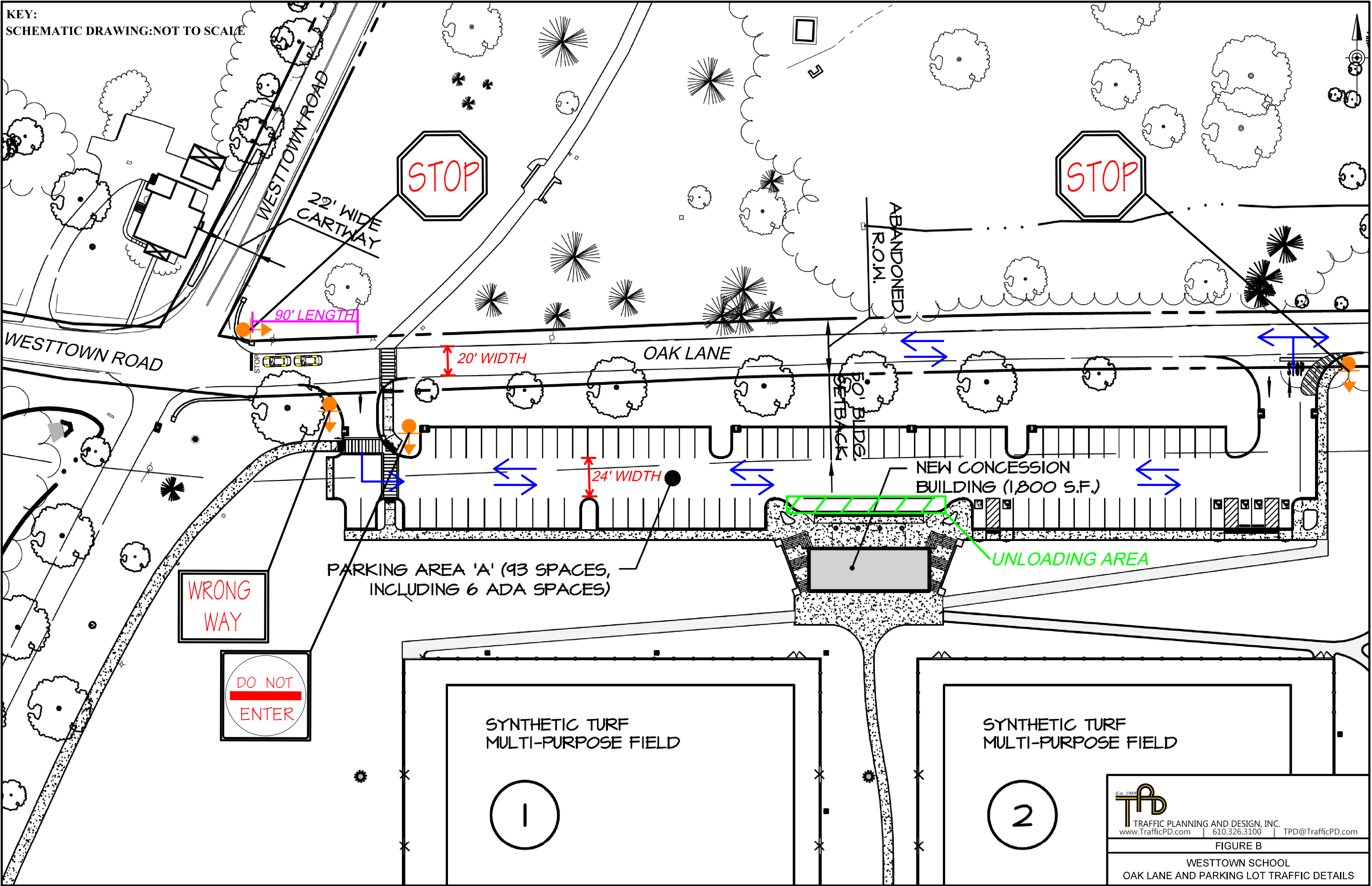
KEY:  
XX - AM PEAK HOUR TRIPS  
TRAFFIC COUNT DATA TAKEN FRIDAY MARCH 8, 2019  
SCHEMATIC DRAWING: NOT TO SCALE



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FIGURE A  
WESTTOWN SCHOOL  
AM TRAFFIC COUNTS 3/8/2019

KEY:  
SCHEMATIC DRAWING: NOT TO SCALE



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FIGURE B  
WESTTOWN SCHOOL  
OAK LANE AND PARKING LOT TRAFFIC DETAILS