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To: Mr. Steve Strickland, **Earthworks, LLC**

From: Todd E. Salvagin, **EPC, LLC**

Date: October 19, 2020

RE: Comments Sunnyside Residential

Per your request, the following items are being clarified to address questions that were identified during the Planning Commission meeting related to traffic impact on this project:

Murrells Inlet Road at Sunnyside Avenue- This intersection/roadway was not originally scoped as required for this project. It may serve as a short cut however I do not believe it to be a major volume of traffic. Differences between counts conducted at the two study areas intersections (US 17 By-Pass & US 17 Business) do show an imbalance however you must also keep in mind that a carwash and BBT bank are located on the east side of US 17 along Sunnyside which can account for some of this imbalance.

Further review of Murrells Inlet Road indicates that there are no SCDOT permanent count stations along this roadway however, there is a count location on Macklen Avenue both to the east (#315) and west (#316) of Murrells Inlet Road. Each of these indicate less than 2,000 two-way vehicle trips per day (vpd) which is not a significant volume when compared to two-way volumes on US 17 Business (6,700 vpd station #129) and US 17 By-Pass (39,100 vpd station #121)

SCDOT required count times are defined as the "peaks" which are typically your AM and PM peak commute hours as these are the time periods when the greatest volumes of traffic on the roadways. In some studies, SAT noon peak is required due to the proposed project being retail. School for instance look at the midday release time usually 2:00-4:00 pm. So, this study concentrated on your typical AM and PM peak commute hours.

To answer this question, I reviewed SCDOT count information "interactive" which is live gathered hour by hour day by day. Just north of the site, SCDOT has a permanent hourly traffic counter on US 17 (@ NC Line #0030-Horry County). Our counts were conducted on Oct 7th. If we look at that day from the SCDOT info the 4-8 pm peak hour volumes are as follows:

Time	SB	NB	Total Two Way	
16:00	1,021	570	1,591	
17:00	1,119	586	1,705	Peak Hour
18:00	1,097	542	1,639	
19:00	843	400	1,243	
20:00	539	345	884	
21:00	345	246	591	

As shown, the peak hour is around the 5 PM (17:00) time period with a two-way volume of 1,705 vehicles according to this data. The 8 PM (20:00) is 884 vehicles or less than half of the PM peak.

Our peak data was 4:30 to 5:30 PM as our data is collected in 15 min intervals which encompasses the 5PM data shown by the SCDOT (which is collected in 60 min intervals), therefore I would say that based on this adjacent permanent count location, the PM peak hour occurs during the typical 4-6 PM time range.