



# STROUD ENGINEERING, P. A.

CONSULTING ENGINEERS  
422 HIGHWAY 24  
MOREHEAD CITY, NORTH CAROLINA 28557  
WWW.STROUDENGINEER.COM  
LICENSE NO. C-0647

November 27, 2023

Ms. Andrea Correll  
Planner - Town of Swansboro  
601 W, Corbett Avenue  
Swansboro, NC 28584

RE: Traffic Study - Sand Dollar Homes Subdivision on Swansboro Loop Road

Dear Ms. Correll:

Per your request, Stroud Engineering performed a preliminary traffic impact evaluation of the proposed development by Sand Dollar Homes on Swansboro Loop Road in Swansboro, NC. The ITE Trip Generation Manual (11<sup>th</sup> edition) indicates an average daily Vehicle Trip Generation Per Dwelling unit rate of 9.43 trips per dwelling unit per day. In consideration of the number of dwelling units proposed in each respective phase, the average daily trips projected falls short of the 400 trips per daily threshold for single family residential projects as outlined in Unified Development Ordinance Section 152.312 Part C requiring a traffic impact study.

Thank you,

DocuSigned by:  
*Joshua Johnson* 11/27/2023  
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Joshua L. Johnson, PE





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December 18, 2023

Ms. Andrea Correll  
Planner – Town of Swansboro  
601 W. Corbett Avenue  
Swansboro, NC 28584

RE: TRC comments – Sand Dollar Homes Subdivision on Swansboro Loop Road

Dear Ms. Correll:

Please see the items listed below that were requested during the Technical Review Committee meeting on November 21, 2023.

Drainage: Stormwater Management Plan and Stormwater Control Measures to comply with design criteria for NCDEQ review and permitting. Stormwater will be routed through curb and gutter and drainage swales for capture in stormwater control measures (likely to be wet pond, but TBD pending soil study), and anticipated to be released from the property in two primary directions, divided between White Oak River subwatershed (toward Stevens Creek) and Queen’s Creek subwatershed (toward Halls Creek), rather than toward Bogue Sound-Bogue Inlet subwatershed (toward Ward Creek and Swansboro downtown). Intent is to not contribute to Swansgate stormwater runoff.

Power: Overhead or underground TBD, electric lines to tie into existing power network in area.

Sewer: Intention for sanitary sewer is gravity sewer collection within subdivision, to a subdivision pump station, and a force main to the manhole near 131 Tundra Trail (Swansgate), pending evaluation of flows tributary to this downstream receiving sewer, to demonstrate discharge will not overload.

Water: Connect to municipal 6” water main along Swansboro Loop Road in two locations (at both subdivision entrances). Water lines will follow subdivision streets.

Streets, sidewalks, curbing and gutters shall meet the minimum NCDOT and Town of Swansboro Code.

Thank you,

DocuSigned by:  
*Joshua L. Johnson* 12/18/2023  
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Joshua L. Johnson, PE

