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November 6, 2020

MEMORANDUM

To: Mega-Projects Construction Manager David Rister

From: CM/OVTI Project Engineer Thad Brunson 

Subject: Carolina Crossroads  
Septic Systems Investigation – Tracts #329, 330, 337 and 338

In support of SCDOT's right-of-way acquisition strategy for Carolina Crossroads and as requested by SCDOT's Right-of-Way Manager Chris Johnston, CDM Smith has completed an investigation of the location and limits of private septic systems on Tracts #329, 330, 337 and 338. The purpose of the investigation is to determine the potential for impact to the systems due to construction activities and if impacted, what would be the extent of the impacts and the reasonable mitigation to restore septic service. CDM Smith contracted with Sharpe's Septic Tank and Well Drilling to perform site surveys to determine the approximate location of the septic tanks and drain fields in relation to the proposed R/W limits at each residence. Additionally, based on their survey, Sharpe's provided an opinion as to the likelihood of impacts as well as mitigation options should the systems be impacted by construction activities. The site surveys were conducted on October 22, 2020 and a report of Sharpe's findings and recommendations is attached.

Please do not hesitate to contact me if you have questions or need additional information.



# INSPECTION REPORT

Date: October 22, 2020  
File No: 234894  
Project: Carolina Crossroads — Phase 1  
Scope: Septic System Investigation — Tracts #329, 330, 337, and 338  
Attendance: Chris Swingle, Sharpe's Septic Tank and Well Drilling  
Patrick Stinson, CDM Smith

**Issue:** During the right-of-way (R/W) acquisition process for Carolina Crossroads — Phase 1, it was determined that multiple tracts along Burnette Drive/ Burning Tree were on private septic systems. It was further determined that the septic tanks and/or drain fields may be located within the "to be acquired" R/W and therefore may be impacted by the future construction activities.

**Scope:** At the request of SCDOT, CDM Smith was charged with investigating the location and limits of the private septic systems to determine the potential for impact to the systems and if impacted, what would be the extent of the impacts and the reasonable mitigation to restore septic service.

**Investigation:** CDM Smith contracted with Sharpe's Septic Tank and Well Drilling to perform a site survey of Tracts #329, 330, 337, and 338 to determine the approximate location of the septic tanks and drain fields in relation to the proposed R/W limits at each residence. On Thursday, October 22, 2020, Chris Swingle of Sharpe's Septic Tank and Well Drilling performed field investigations on each tract utilizing a probe rod to approximate the location of the tanks and drain fields. OVTI Engineer Patrick Stinson of CDM Smith accompanied Mr. Swingle and documented the findings.

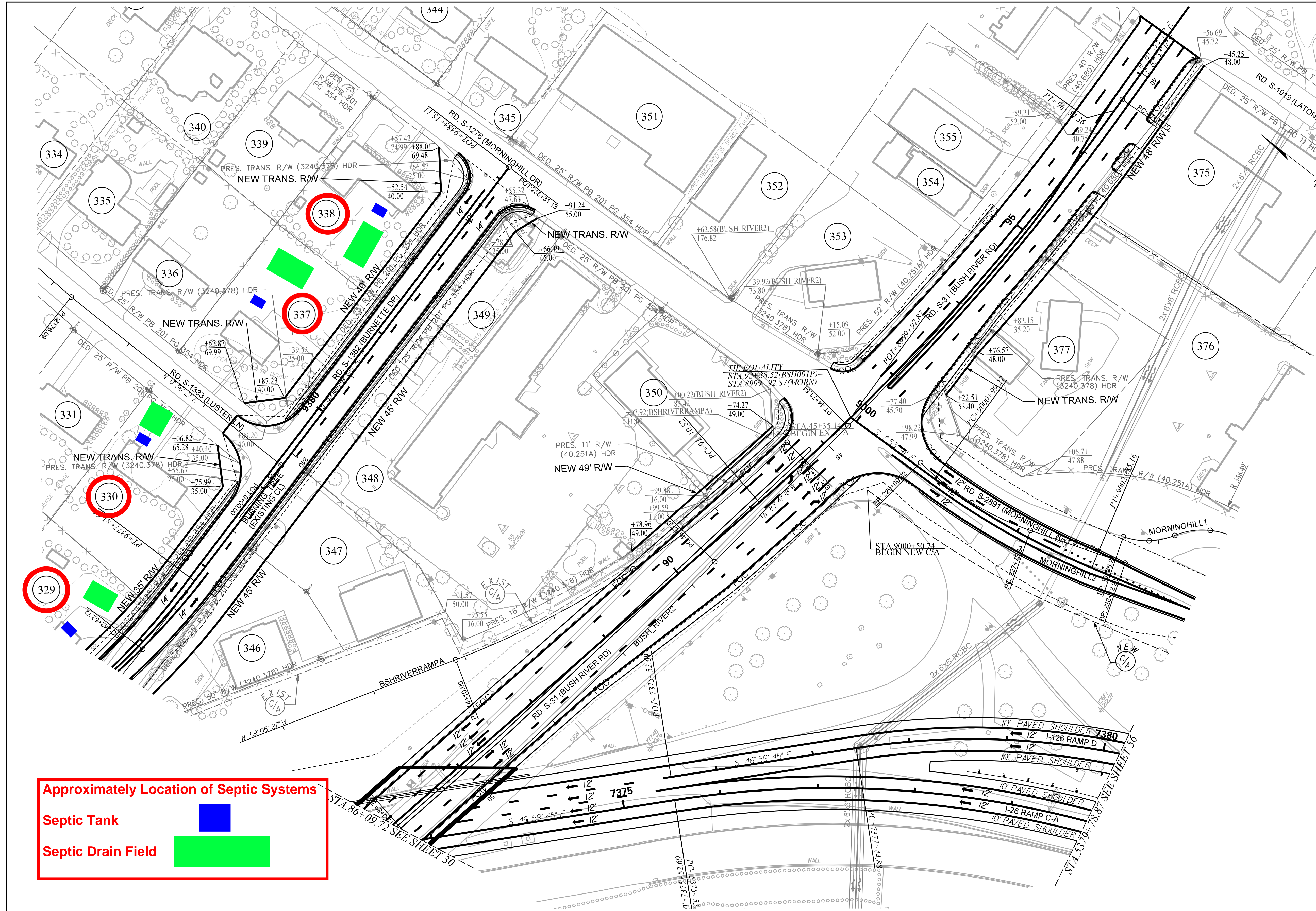
**Findings:** Attached are CRR/W Plan Sheet No. 80 indicating the approximate location of septic tanks and drain fields for Tracts #329, 330, 337, and 338. Based on the proposed R/W limits, probe investigation results, Mr. Swingle's observations of the properties, as well as his experience and knowledge of septic system installations, it is unlikely that there will be any significant impacts to the existing septic systems. Additionally, should any system be impacted, the extent of the impacts would be minimal and there is ample area available within the affected properties to modify, extend and restore the functionality of the existing systems at minimal cost and effort. Note: It appears that the septic tank for Tract 329 is located under concrete beneath a carport. There is a steel plate covering the cleanout port. This indicates that portions of the septic system is under concrete (see drawing). The limits of the drain lines were estimated to be approximately 15 ft from the new R/W.




Patrick Stinson, PE — CDM Smith




Chris Swingle - Sharpe's Septic Tank and Well Drilling



**Approximately Location of Septic Systems**

Septic Tank 


Septic Drain Field 

TRACT(S)	ISSUED FOR	DATE	TRACT(S)	ISSUED FOR	DATE
329, 330, 337, 338	ROW ACQUISITION	12-06-2019			
346-350	ROW ACQUISITION	12-06-2019			
375, 376, 377	ROW ACQUISITION	01-13-2020			
346-349	REVISED NEW ROW	01-13-2020			
375, 376	REMOVED PAVEMENT HATCHING	02-07-2020			

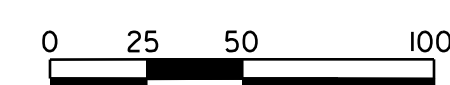
PLANS PREPARED BY




PLANS PREPARED FOR



South Carolina Department of Transportation



CAROLINA CROSSROADS

PLAN SHEET