

Harris Civil Engineers, LLC

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Date Issued: 07/15/2020

NAME OF PROJECT		WEATHER		DATE OF VISIT	
Sol Avenue Roadway and Drainage		90-95°, Sunny		7/09-10/2020	
FIELD ACTIVITIES				TIME	
Explore area of concern for water bubbling up through asphalt pavement on Cove Drive and Sol Avenue.				Begin	End
				2:00 PM	2:30 PM
				10:00 AM	10:30 AM
FIELD ATTENDEES			ATTENDEES PRESENT DURING SITE VISIT		
David Taylor, PE, 7/9 & 7/10					
Nicole Lund, EI, 7/10					
GENERAL COMMENTS					
<i>The following pages within this report contain pictures taken during the time of visit.</i>					
HCE received a call from Dwayne Bennett on Wednesday, July 8, 2020 regarding concern for water seen slowly bubbling up through the asphalt pavement on Cove Drive and Sol Avenue. HCE investigated the area of concern following rainfall events in the afternoon of 7/9/20 and the morning of 7/10/20.					
During HCE's visit, standing water was seen in the formed 'ruts or depressions' in the roadway asphalt. HCE noticed roadway base material on the top surface of the asphalt. At the time of visit, water was not seen bubbling up through cracks or joints in the roadway.					
Water was seen in the valley curbing moving slowly due south down Sol Avenue to existing drainage basins at the intersections of Playa and Kandra. Sol Avenue appears to take a majority of the drainage from surrounding side streets. Cove Drive appears to have a low elevation in the curbing/road and holds water at the intersection with Sol.					
HCE suspects that water has infiltrated the asphalt and is traveling horizontally between the base course and top asphalt layer. Where it can, water is making its way up through cracks or joints in the asphalt (bringing the road base with it) and is ponding in the ruts/depressions seen. Sol Avenue appears to have minimal slopes and runoff moves slowly in the curbing to reach the existing drainage basins. The portion of Sol roadway, between Cove and Playa, does not currently have underground drainage and relies on curbing to convey water away from the road.					
ACTION ITEMS					
1 Engage the services of a Geotech to perform borings, a subgrade analysis and render an opinion of the source of the problem.					
2 Request a topography survey be performed on Sol Ave, from Cove to Kandra.					
3 Place project on next budget's year for roadway and drainage remediation.					
CONTRACTOR	HE JOB NO.	DATE	DAY Of WEEK		
N/A	6958026	7/09-10/2020	Thursday/Friday		
HCE PROJECT MANAGER					
David Taylor, PE					

Sol Avenue Roadway and Drainage

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Photo 1 ~

Standing on Cove Drive; view looking south down Sol Avenue.



Photo 2 ~

Low spot pictured at intersection of Cove and Sol; view looking west at Cove intersection.

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Photo 3 ~

Standing on Sol Avenue; view looking north at Cove intersection.



Photos 4 ~

Picture of ruts/depressions formed in asphalt; water ponding mixed with base material seen.

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Photo 5 ~

Standing on Sol Avenue; view looking south down Sol.



Photo 6 ~

Sol Avenue and intersection with Playa pictured; view looking south. Nearest drainage basin circled in red.

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Photo 7 ~

View looking north at Sol and Playa intersection. Water ponding seen in curbing.



Photo 8 ~

Low spot in curbing/road at Sol intersection with Playa (east side). Existing drainage basin on opposite side of Sol.

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Photo 9 & 10 ~

Water ponding in curbing on west side of Sol / Kandra intersection; view looking northwest.

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Photo 11 ~

Roadway cracks noted; appears formed from upheaving or uplifting of asphalt.