



# CONCRETE COMPRESSIVE STRENGTH

Test Method: ASTM C39

Report #: CC-000033  
 Sample 262956 56-day  
 Report Date: 11/05/2021  
 Sample: 262956

S&ME, Inc.  
 3201 Spring Forest Road  
 Raleigh, NC 27616  
 Phone: 919-872-2660  
 Fax: 919-876-3958

**Client:**  
 SHEETZ, Inc.  
 1737 White Kennel Road  
 Burlington, NC 27215

**Project:**  
 214164  
 Sheetz #716 Cameron  
 Intersection of Sawyer Rd and NC Hwy 24  
 Cameron, NC 28326

Sample Details			
<b>Set #:</b>	8	<b>Technician:</b>	HAZEM ISMAIL
<b>Specimen Size:</b>	4" X 8"	<b>Cast By:</b>	HAZEM ISMAIL
<b>Specimens In Set:</b>	5	<b>Date Cast:</b>	09/03/21
<b>Truck / Ticket #:</b>	0425 / 2446630	<b>Sampled From:</b>	Chute
<b>Contractor:</b>	Guardian Fueling Technology	<b>Placement Method:</b>	
<b>Batched:</b>	04:47 EDT	<b>Sampled:</b>	05:25 EDT
<b>Cast:</b>	05:35 EDT	<b>Truck Empty:</b>	06:00 EDT
<b>Placement Time:</b>	73 (min)		

Location	
<b>Placement Location:</b>	TANK - Slab-on-Grade
<b>Location Details:</b>	Slab on grade over underground fuel storage tank
<b>Sample Location / Notes:</b>	Slab on grade over storage fuel tanks

Batch Log		Specifications	
<b>Supplier:</b>	06-S&W Ready Mix Concrete	<b>Mix Design:</b>	G40CB
<b>Plant:</b>	Clinton	<b>Strength:</b>	4000 (psi)
<b>On-Site Admixtures:</b>	10.00 Oz AEA-Air Entraining Admixture	<b>Air:</b>	4.5 - 7.5 (%)
		<b>Slump:</b>	3 - 6 (in)

Field Measurements			
<b>Weather:</b>	Dark	<b>Slump (in):</b>	5 (ASTM C143)
<b>Air Temperature (F):</b>	55	<b>Concrete Temp (F):</b>	75 (ASTM C1064)
		<b>Plastic Unit Weight:</b>	142.0 (lb/ft³) (ASTM C138)
		<b>Air Content:</b>	5.0 (ASTM C231)
		<b>Load Volume:</b>	10.00 (yd³)

Standard Cure	Field Cure

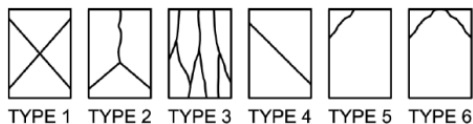
## Lab Test Results

**Testing Lab:** Raleigh, 3201 Spring Forest Road, Raleigh, NC, 27616

Specimen Number	Test Age Days	Test Date	Field / Lab Cure Days	Average Cylinder Diameter (in)	Cylinder Area (in²)	Max Load (lbs)	Strength (psi)	Fracture Type	Break Remark	Capping Method
8-1	7	09/10/21	5 / 2	3.99	12.50	38,480	3,080	3	P7	U
8-2	28	10/01/21	5 / 23	3.99	12.50	49,910	3,990	3	F	U
8-3	28	10/01/21	5 / 23	3.99	12.50	48,280	3,860	3	F	U
8-4	28	10/01/21	5 / 23	3.99	12.50	48,620	3,890	3	F	U
8-5	56	10/29/21	5 / 51	4.00	12.57	53,910	4,290	3	P6	U

**Test Age Average Strengths (psi):** 7 Day - 3080, 28 Day - 3920, 56 Day - 4290

Capping Methods	
<b>P7:</b> The 7-day compressive strength test result meets or exceeds 70% of the 28-day specified strength.	<b>U:</b> Unbonded Caps (ASTM C1231)
<b>F:</b> The compressive strength test result DOES NOT meet the 28-day specified strength.	
<b>P6:</b> The 56 day compressive strength test result meets or exceeds 28 day specified strength	
<b>Tested By:</b> Melody BREWER (1), Mal KRAJAN (2,3,4), NATHAN J MILLER (5)	
<b>Checked In :</b> 09/08/2021 (1,2,3,4,5)	



Reviewed/Prepared by:  
 Jan ROSS  
 Nov 05, 2021