



## REPORT OF CONCRETE FIELD & LABORATORY TESTING

**CLIENT:** Old Dominion Freight Lines  
500 Old Dominion Way  
Thomasville, NC. 27360  
Attn: Philip Danner

**PROJECT:** Old Dominion Building Expansion  
185 Rand Road  
Portland, ME

**DATE:** October 8, 2014      **REPORT #:** 14-55-00014-015

**General Location:** Slab on Grade, line 10-16 on A-B  
**Cast Date:** 09/10/14  
**Field Rep:** Tristan Brackett  
**Contractor:** Lajoie Brothers  
**Supplier:** Hissong Ready Mix  
**Admixtures:** MRWR, BASF, Glenium 7500  
**Air Temp:** 67°F  
**Weather:** Clear  
**Nominal size of Aggr:** 1 1/2"

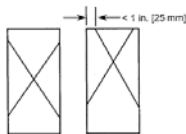
### FIELD TEST RESULTS

Ticket #/ #CYL*	ASTM C143 SLUMP TEST	ASTM C231 AIR CONTENT	ASTM C1064 TEMPERATURE °F	ELAPSED TIME Batch : Final Discharge
252650 / 4 cys	6.5"	2.5%	74°F	6:08-6:55 / 47 mins
252651	-	-	-	6:18-7:02 / 44 mins
252652	-	-	-	6:27-7:11 / 44 mins
252653	-	-	-	6:37-7:19 / 42 mins
252654	-	-	-	6:46-7:27 / 41 mins

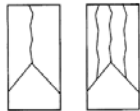
\*Specimens molded in accordance with ASTM C31

### LABORATORY COMPRESSIVE STRENGTH TESTING ASTM C39

Date of Test	Age	Specimen Area (in <sup>2</sup> )	PSI	Break Type
09/17/14	7	12.56 <sup>2</sup>	3160	2
10/08/14	28	12.56 <sup>2</sup>	4480	2
10/08/14	28	12.56 <sup>2</sup>	4400	2
	Hold	12.56 <sup>2</sup>		



Type 1  
Reasonably well-formed cones on both ends, less than 1 in. [25 mm] of cracking through caps



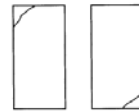
Type 2  
Well-formed cone on one end, vertical cracks running through caps, no well-defined cone on other end



Type 3  
Columnar vertical cracking through both ends, no well-formed cones



Type 4  
Diagonal fracture with no cracking through ends; tap with hammer to distinguish from Type 1



Type 5  
Side fractures at top or bottom (occur commonly with unbonded caps)



Type 6  
Similar to Type 5 but end of cylinder is pointed

<b>Specific Sample Location:</b>	<b>Line 13.1 on A.5</b>
<b>Yards placed:</b>	<b>100.0 yards</b>
<b>Design Strength:</b>	<b>3500 PSI</b>
<b>Remarks:</b>	



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**Air Temp:** 67°F  
**Weather:** Clear  
**Nominal size of Aggr:** 1 1/2"

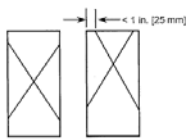
### FIELD TEST RESULTS

Ticket #/ #CYL*	ASTM C143 SLUMP TEST	ASTM C231 AIR CONTENT	ASTM C1064 TEMPERATURE °F	ELAPSED TIME Batch : Final Discharge
252655 / 4 cyls	4.75"	2.3%	75°F	6:55-7:36 / 41 mins
252656	-	-	-	7:04-7:44 / 40 mins
252657	-	-	-	7:13-7:55 / 42 mins
252658	-	-	-	7:23-8:09 / 46 mins

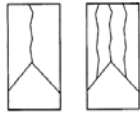
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### LABORATORY COMPRESSIVE STRENGTH TESTING ASTM C39

Date of Test	Age	Specimen Area (in <sup>2</sup> )	PSI	Break Type
09/17/14	7	12.56 <sup>2</sup>	3240	2
10/08/14	28	12.56 <sup>2</sup>	4350	2
10/08/14	28	12.56 <sup>2</sup>	4390	2
	Hold	12.56 <sup>2</sup>		



Type 1  
Reasonably well-formed  
cones on both ends, less  
than 1 in. [25 mm] of  
cracking through caps



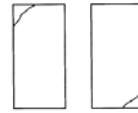
Type 2  
Well-formed cone on one  
end, vertical cracks running  
through caps, no well-  
defined cone on other end



Type 3  
Columnar vertical cracking  
through both ends, no well-  
formed cones



Type 4  
Diagonal fracture with no  
cracking through ends;  
tap with hammer to  
distinguish from Type 1



Type 5  
Side fractures at top or  
bottom (occur commonly  
with unbonded caps)



Type 6  
Similar to Type 5 but end  
of cylinder is pointed

<b>Specific Sample Location:</b>	<b>Line 11.8 on A.3</b>
<b>Yards placed:</b>	<b>140.0 yards</b>
<b>Design Strength:</b>	<b>3500 PSI</b>
<b>Remarks:</b>	



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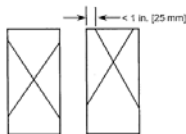
### FIELD TEST RESULTS

Ticket #/ #CYL*	ASTM C143 SLUMP TEST	ASTM C231 AIR CONTENT	ASTM C1064 TEMPERATURE °F	ELAPSED TIME Batch : Final Discharge
252645 / 4 cyls	6.0"	2.4%	74°F	5:20-6:15 / 55 mins
252646	-	-	-	5:36-6:22 / 46 mins
252647	-	-	-	5:45-6:30 / 45 mins
252648	-	-	-	5:52-6:36 / 44 mins
252649	-	-	-	6:00-6:46 / 46 mins

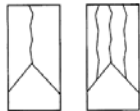
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### LABORATORY COMPRESSIVE STRENGTH TESTING ASTM C39

Date of Test	Age	Specimen Area (in <sup>2</sup> )	PSI	Break Type
09/17/14	7	12.56 <sup>2</sup>	3020	2
10/08/14	28	12.56 <sup>2</sup>	4300	2
10/08/14	28	12.56 <sup>2</sup>	4330	2
	Hold	12.56 <sup>2</sup>		



**Type 1**  
Reasonably well-formed cones on both ends, less than 1 in. [25 mm] of cracking through caps



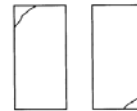
**Type 2**  
Well-formed cone on one end, vertical cracks running through caps, no well-defined cone on other end



**Type 3**  
Columnar vertical cracking through both ends, no well-formed cones



**Type 4**  
Diagonal fracture with no cracking through ends; tap with hammer to distinguish from Type 1



**Type 5**  
Side fractures at top or bottom (occur commonly with unbonded caps)



**Type 6**  
Similar to Type 5 but end of cylinder is pointed

<b>Specific Sample Location:</b>	<b>Line 15.8 on A.2</b>
<b>Yards placed:</b>	<b>50.0 yards</b>
<b>Design Strength:</b>	<b>3500 PSI</b>
<b>Remarks:</b>	