



Portland Cement Concrete Pavement

Shannon Golden, Alabama DOT

- **CRUSHED CONCRETE USED AS AGGREGATE**

Crushed concrete may be used as an aggregate if this is shown to be allowed on the plans. The crushed concrete must meet the requirements of Section 450 and Articles 801.01 through 801.03 of the Department's Specifications.

- **MINERAL ADMIXTURE**

Mineral admixtures may be substituted for part of the required Portland cement. Substitution of mineral admixtures shall be measured by weight. The substitution of each mineral admixture (GGBFS, Fly Ash, Silica Fume) for Portland Cement shall not exceed the percentages shown in the following table:

MAXIMUM ALLOWABLE SUBSTITUTION OF MINERAL ADMIXTURES FOR PORTLAND CEMENT IN THE TOTAL CEMENTITIOUS CONTENT OF THE CONCRETE MIX		
GGBFS* (Maximum % Substitution)	Fly Ash (Maximum % Substitution)	Silica Fume (Maximum % Substitution)
50 %	0 %	0 %
30 %	20 %	0 %
40 %	0 %	10 %
25 %	20 %	5 %
0 %	0 %	10 %
0 %	20 %	0 %
0 %	20 %	10 %

*GGBFS - Ground Granulated Blast Furnace Slag

PORTLAND CEMENT CONCRETE PAVEMENT PROJECT

- **First in Alabama in more than 25 years!**
- **IM-I059 (342) Etowah County**
 - I-59 Concrete Pavement Rehabilitation with Unbonded Concrete Overlay
 - Length: 10.9 miles
 - Thickness: 11.0 to 13.5 inches
 - Volume: ≈300,000 cu.yd.