S.D. Ireland
Concrete Construction Corporation
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CONCRETE MIX DESIGN

6000 psi

SCC

SDI MIX CODE: P60TER

DATE: March 28, 2014 **PLANT:** Burlington/Williston, VT

PROJECT: **General DOT Precast - 2014**

FINE AGGREGATE:
ASTM C 33

Source:	Hinesburg Sand & Gravel
Specific Gravity:	2.67 (Abs.: 1.3%)
Fineness Modulus:	≥ 2.6

COARSE AGGREGATE:
ASTM C 33

Source:	S.D. Ireland, Brownell Quarry
Specific Gravity:	2.80 (Abs.: 0.30%)
Description	3/4" 100% Crushed Stone (Size #67)

CEMENT: Ternary Blend Cement; Lefarge North America Lakes and Seaway Re St. Constant, Quebec (Sp. Gvty. 3.02)

ADMIXTURES: Water Reducer (HRWR): Glenium 7500; BASF
Air Entraining Agent: Darex II AEA; Grace Concrete Chemicals

CONSTITUENTS (LBS. /YD³)

		Abs.Vol.
Coarse Aggregate (SSD)	1750	10.02
Fine Aggregate (SSD)	1017	6.10
Cement	800	4.25
Water	304.6	4.88
Air Content (Entrained)	6.5%	1.75
Total	3872	27.00ft³

MIX PROPERTIES

Water Cement Ratios: 0.38
Entrained Air Content: 5.0 % – 9.0%
Dry Unit Weight: 144.2 ± pcf
Spread: 20" to 28"
VSI ≤ 1

***ADMIXTURE(S) DOSEAGE (OZ. /YD³)**

Glenium 7500 (HRWR)	56 - 64
Darex II AEA	2.8

Approved by James Wild, VAOT Composite Materials Engineer 7/17/14

*Admixture dosage rates are subject to change.

BREAK HISTORY±

24-HR.	3400 PSI
7-DAYS	6000 PSI
28-DAYS	6700 PSI