

Pay Item Number:	P-511a
Pay Item Description:	Microsilica Modified Concrete
Location:	Floor of the culvert
Unit:	Ton
Quantity:	500
Note:	

Computed: JGW	Date: 4/25/14
Checked: <i>CS</i>	Date: <i>4/25/14</i>

Kodiak Devils Creek Culvert Repair
Project 57474/AIP 3-02-0158-01x-2014



ONE COMPANY
Many Solutions

Project: Kodiak Davis Creek Culvert

Computed: *JS*

Date:

Subject: P-511

Checked:

Date:

Task:

Page:

of:

Job #:

No:

2 culvert bays

Average width - 9'

Average depth of hydrodemolition

3" cover

1" rebar

$\frac{3}{4}$ " below top rebar

$4\frac{3}{4}$ " total thickness

Use 5"

Culvert length - 787.5' average

$$2 \times 9' \times 787.5' \times \frac{5''}{12''} = 5,906 \text{ c.f.}$$

$$5,906 \text{ c.f.} \times \frac{150 \text{ pcf}}{2000 \frac{\text{lb}}{\text{ft}^3}} = 443 \text{ Tons}$$

Add 10%

$$\begin{array}{r} 44 \\ \hline 48 \\ 427 \end{array}$$

Use 500 T

