INTEROFFICE MEMORANDUM

Date: XXXXXXX

TO: **Mr. Allan Holmes, State Construction Engineer**

FROM: **Edward T. Fain, Bridge Engineer**

SUBJECT: **Deck Pouring Sequence**
Bridge No. 00000; Job No. 00000
Job Name

We have reviewed the contractor's request to use a continuous pouring sequence for the superstructure on the subject project. See the attached copy of the contractor's proposal. The contractor's proposal should not have any adverse effects on the structural capacity of the bridge or the final profile grade of the deck.

There is one concern with using this type of pouring sequence. After a span has been poured and taken its initial set, cracks may develop in the completed deck while pouring the **adjacent** span due to vertical movement of the beams. During the strike-off process, the concrete must not take its initial set in the span that is being screeded and the span immediately preceding it. Any previously screeded span(s) may attain its initial set. For example, while Span 3 concrete is being placed, Span 2 concrete **must not** take its initial set but Span 1 **may** have attained its initial set. An adequate rate of pour should be maintained to avoid the excessive use of retarding agents.

The deck pour shall begin at one end of the unit and continue without interruptions to the opposite end of the unit. We urge the contractor to use caution and to have a well-developed contingency plan in the event of unforeseen circumstances. Concrete thickness, rebar cover, and construction tolerances shown on the plans must be achieved in placement of the slab.

CJF
Attachment