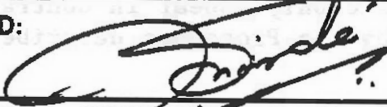


TO:		<b>ENGINEERING INSTRUCTION</b> NEW YORK STATE DEPARTMENT OF TRANSPORTATION	
SUPERSEDED BY EB 99-025 EFFECTIVE 3/17/99			
		SUBJECT: TREATMENT OF PROFILES FOR BRIDGE DECK OVERLAYS	
		Subject Code: 7.35-3	
Distribution:		30 Main Office	32 Regions
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APPROVED:		Code: E.I. 90-20	
 ARUN M. SHIROLE, Deputy Chief Engineer, Structures Division		Date: June 15, 1990	
		Supersedes:	

This Engineering Instruction establishes a policy for determining the acceptability of the profile of bridge decks to be overlaid and provides a procedure for the treatment of unacceptable profiles.

BACKGROUND

Over the past few years; claims have been made against the Department by Contractors on bridge deck overlay projects when excessive quantities of concrete were required over the expected bid quantities. This was due to large undulations in the existing decks. These undulations required significantly more overlay concrete than expected to achieve a final grade line providing a satisfactory riding surface.

The majority of the bridge decks do not exhibit undulations severe enough to influence overlay quantities significantly. Therefore, Bidders should be made aware of severe undulations when they exist, so that they can include the cost of the extra material in their price bid for the overlay.

POLICY

All bridge decks that are scheduled to be overlaid should be checked to determine if the existing profile is unsatisfactory. The following procedure for determining the acceptability of the profile is suggested. Four people, two per car, should drive the deck. Each car should ride each lane at the posted speed limit to determine if excessive undulations exist. If the deck gives a smooth ride, as determined by the four riders, the overlay can be placed parallel to the existing grade with only "minor" variations. However, if deck undulations cause an "uncomfortable" ride, the following procedure should be followed in preparing Contract Documents. Each Region will have to determine what constitutes an "uncomfortable" riding deck.

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In order to advise the bidder that additional quantities may be required due to the profile of the existing deck surface, the following note shall be included in the General Notes. The "note" should only appear in Contract Documents that have decks deemed "uncomfortable" by the Procedure described above. The "note" should be boxed.

"For BIN's xxxx, xxxx, and xxxx, the following note shall apply:  
The Contractor is alerted that the existing bridge deck surface has irregularities that will require additional concrete to achieve the desired overlay profile. All costs associated with this additional concrete shall be included in the unit price bid for the overlay items."

This Engineering Instruction shall take effect with the Letting of December 13, 1990, (PS&E September 20, 1990).

Any questions may be directed to the Special Design Unit of the Structures Division at (518) 457-2459.