1910.2

No. NHIII/P/35/77

Dated the 5th February, 1981

То

All the State Chief Engineers concerned with National Highways

Sub : Ensuring fluent grade lines at the approaches to the culverts and bridges on National Highways

The need for ensuring fluent grade lines at the approaches to culverts and bridges on all Highways has been long felt, integral to their geometric design and the Ministry has been drawing the attention of all concerned for the incorporation of this very important aspect on the National Highways time and again. In this connection, Ministry's letter No. NHI-37 (2)/70, dated 2.4.1970 (paragraphs 9 (b) (iii), 9 (e) (ii) and (iii) of the technical Memorandum Note attached thereto); reiterated vide letter No. NHI-37 (2)/70, dated 1.2.1971 and again followed up by another circular issued vide letter No. NHI-I/P/35/77 dated 24.12.1977 may be referred to.

2. In spite of very clear instructions on the subject issued and discussions in the various forums laying stress on this aspect particularly in the meetings of the Chief Engineers, it has been observed that the shock-free treatment of approaches has so far not received its due attention it deserves. It may once again be emphasized that any deficiency in the vertical profile at the culverts and bridges, results not only in accident and reduction in speed of traffic on the National Highways but also produce discomfort and some times causes injuries to passengers due to unexpected sudden shock and attracts criticism of the travelling public. It is, therefore, imperative that proper treatment to ensure shock-free fluent grade lines at all existing approaches to culverts and bridges is given by the State PWDs.

3. It is suggested that immediate survey of all the culverts and bridges, where the grade lines on either side are not fluent and shock-free, may be made and properly designed vertical and valley curves provided at each such location depending on the slope of the approaches to the bridges.

GOVERNMENT OF INDIA MINISTRY OF TRANSPORT 2.12.85 DEPARTMENT OF SURFACE TRANSPORT

(ROADS WING)

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TRANSPORT BEAVAN, No.1. PARTA AND STRAIR.

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- 1. The Chief Engineers of State F. Los Union Territories, dealing with National Highways and other Centrally Financed Roads.
- 2. The Director General(Works), Central P.W.D., Mirman Bhavaa, New Belld.
- 3. Director General (Border Roads), Kashmir House, New Delhi.
- Subject: Keeping proper record of completion drawings for bridges on NHs and other Contrally Figureral Road

Sir,

It has been observed that coupletion drawings of even same major bridges, are not available for reference during the service stage of the bridge. In order to ensure adequate maintenance during the service stage of a bridge, it is very meessary that a proper record of the completion drawings is kept for immediate and ready reference as and when it becomes necessary. For this purpose the following procedure is suggested:-

(i) In respect of major bridges involving alternative designs, a para may be included in the notice inviting tenders for such bridges that soon after the completion of the bridge, the contracting firm will have to supply 4 copies of completion drawings for different components of the bridge duly bound and also supply the original tracings of the completion drawings to the State P.W.D.

> One set of the completion drawings is to be sent to Roads ding and other three sets are to be kept in the Offices of Executive Engineer, Superintending Engineer and Chief Engineer. The tracings of completion drawings are to be kept in the office of Chief Engineer.

(ii) In respect of other bridges, the folders contain the completion drawings are to be kept in the offices of the Executive Engineer, Order intending Engineer and Chief Engineer of the Cont

2. To neet the expenditure on the provident the expenditure of the provident the expenditure of the provident that hone forth a soperate item any build that is relating to bridge projects.

3. It is requested that necessary instructions in this regard may please by issued to all concerted.

Yours flitafully,

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Copy forwarded for information and necessary mation to:-

(i) All Regional Officers and Magineer Lisison Collects.

(11) all Technical Officers at the Beadquarters.

(iii) Desk Officer - I (10 copies).

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