



To: SUPERSEDED BY EB 98-060 EFFECTIVE 11/17/98		ENGINEERING INSTRUCTION <i>New York State Department of Transportation</i>	94-023 <hr/> Supersedes: EI 74-41 EI 80-42
Title: HIGHWAY DESIGN MANUAL REVISION NO. 21 CHAPTER 2 DESIGN CRITERIA			
Distribution: <input checked="" type="checkbox"/> Central Office(30) <input type="checkbox"/> Local Gov.(31) <input checked="" type="checkbox"/> Regions(32) <input type="checkbox"/> Contractors/AGC(39) <input checked="" type="checkbox"/> Consultants(34) <input type="checkbox"/> _____ ()	Approved:  P.S. Clark, D. C. E., 7/15/94 Fac. Des. Div. Date		

Chapter 2 Design Criteria of the Highway Design Manual (HDM) has been revised. Projects with a design approval date of January 1, 1995 or later shall utilize this chapter. Regions are also encouraged to utilize the chapter for projects with earlier design approval dates.

Chapter 2 updates the guidance on design criteria to conform with the latest AASHTO and Department publications and has been metricated. In addition, an appendix with English values for the Standards section of the chapter has been included. The current version of Chapter 2 should be replaced with the new chapter dated July 11, 1994.

The new chapter incorporates the contents of and supersedes the following documents:

- J. R. Lambert August 19, 1991 memo to all Regional Design Engineers titled "Guidance for Establishing Design Criteria."
- EI 74-41 Design Criteria for Local Rural Roads Which Must be Reconstructed as Part of a State Highway Project.
- EI 80-42 Information Needed to Support Retention of Design Features that do not Meet AASHTO Minimum Standards.

Lateral clearance is one of 17 critical design elements discussed in Chapter 2 which was identified most recently by FHWA's January 28, 1994 memo "Design Standards Under 1991 Intermodal Surface Transportation Efficiency Act." It is not clear zone but is the offset distance within which vertical roadside elements may affect driver operation in the travel lane. It is defined in Chapter 2 as the unobstructed distance between the edge of travel lane and a vertical element such as guide rail, median barrier, bridge piers and abutments, retaining walls, signal and utility poles, and sign posts and panels (does not apply to sign panels at or above the minimum vertical clearance). The normal offsets of these

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vertical elements are determined from guidance in documents such as Chapter 10 of the Highway Design Manual, the Roadside Design Guide, and the Standard Sheets for sign posts and panels, etc.

HDM Revision No. 21 will be distributed separately. It also contains a new index for the entire HDM. Consultants and others who are required to purchase the HDM may purchase revision 21 by sending a check or money order for \$3.50 payable to the New York State Department of Transportation at the following address:

Plan Sales Unit, Bldg. 5, Rm. 109
New York State Department of Transportation
W. Averell Harriman State Office Building Campus
1220 Washington Avenue
Albany, NY 12232

Project specific assistance regarding this revision should be referred to the appropriate liaison engineer in the Design Quality Assurance Bureau. General questions regarding this revision should be addressed to Robert E. Reider of the Design Quality Assurance Bureau at (518) 457-7282.