

# Highway Engineering



## HIGHWAYS



### INTRODUCTION

**Highways**:- Highways are special type of road which are designed to permit high speed of vehicles. It is generally constructed over an embankment.

### Advantages:-

1. Better drainage facility
2. Safety in flood time
3. No lateral entry of traffic/ animal/ public.

National highway,  
State highway.

**Expressways**:- Expressways are Superior type of Highways designed as a direct connectivity b/w two places.

Expressways organise the traffic in channelised way.



1. Yamuna Express way
2. Mumbai - Pune express way.

### DEVELOPMENT OF ROADS :-

1. Roman Roads - Plain earth roads
2. Turquet Roads - Aggregate used along with soil, stronger material at base like foundation of building.
3. Telford construction - used good material on the surface.

Telford - founder of ICE - UK.

4. Macadam roads - water + Aggregate + finer material clay.
5. Bituminous Macadam.



Roman Roads



Macadam Roads

### Drawback of Roman Roads

1. No Chamber
2. No drainage system
3. Large foundation stone

### RECOMMENDATIONS OF JAYAKR. COMMITTEE :-

### HIGHWAY PLANNING IN INDIA

In November 1937 Govt. appointed a road development committee headed by Mr. M.R. Jayakar.

1. Road development should be considered as National interest.
2. An extra tax should be charged on

# Highway Engineering Notes

**B Lingard**



## Highway Engineering Notes:

Highway Engineering : CIV. E. 510 : Course Notes J. J. (Jaap Jelle) Bakker, Anderson, K. O, University of Alberta. Department of Civil Engineering, 1980     **Highway Engineering : CIV. E. 510 : Course Notes** J. J. (Jaap Jelle) Bakker, Anderson, K. O, University of Alberta. Department of Civil Engineering, 1984     **Notes for a Short Course on Fundamentals of Highway Engineering** ,1957     *Syllabus X L* Ralph A. Moyer, John Hugh Jones, 1952     **Syllabus X L** Ralph A. Moyer, 1955     *Supplementary Notes and Typical Problems for the Highway Engineering Course C.E. 106* Ralph Alton Moyer, John Hugh Jones, 1950     *Syllabus W C* Ralph A. Moyer, John Hugh Jones, 1950     **Supplementary Notes and Typical Problems for the Highway Engineering Course Civil Engineering 170 (formerly C.E. 106)** Ralph A. Moyer, John Hugh Jones, 1958     Western Conference on Increasing Highway Engineering Productivity, Biltmore Hotel, Los Angeles, California, March 5-6-7, 1957 California. Division of Highways, 1957     **The Highway Engineer & Contractor** ,1919     Principles of Photo Interpretation in Highway Engineering Practice B. Sen Mathur, John F. Gartner, 1964

**Highway Engineering** Coleman A. O'Flaherty, 1988     Highway Engineering John Henry Bateman, 1928     **Roads and Road Construction** ,1924     **Engineering News** ,1912     *Municipal Journal and Engineer* ,1912     **Engineering & Contracting** ,1922     *Engineering and Contracting* ,1914     **The Cornell Civil Engineer** ,1922 Includes transactions of the Association     **Engineering-contracting and Roadmaster and Foreman** Halbert Powers Gillette, 1922

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