

PROGRESS REPORT OF COMMITTEE ON EFFECT OF CONTROLLED ACCESS EXPRESSWAYS ON URBAN AREAS

CHARLES M. NOBLE, *Chairman*
State Highway Engineer, New Jersey State Highway Department

The Committee had its first meeting immediately preceding the 1946 meeting of the Highway Research Board for the purpose of formulating a program and to decide upon the procedures for carrying this program forward. It was agreed to break down the over-all subject into topics and that these topics would be assigned to the various members of the Committee for the purpose of developing them into a formal report. In the development of the papers on the various topics, investigation and research will be carried on by the topic leaders in order that the completed report will represent as nearly as possible the latest thinking and advanced techniques.

The general subject has been subdivided into topics as follows:

- (A) Location in Relation to Street Systems
- (B) Effect of Width on Street Systems
- (C) Spacing of Traffic Interchanges
- (D) Design of Interchanges
- (E) Criteria for Bridging Existing Streets
- (G) Effect of Public Utilities
- (H) Effect on Mass Transportation
- (I) Economics of Expressway
- (J) Effect on Tax Ratables
- (K) Economics of Design
- (L) Traffic Data
- (M) Economic Effect on Fronting Street Properties
- (N) Effect of Stage Construction
- (O) Parking and Terminal Facilities
- (P) Effect on Street Systems

The Topic Leaders assigned are as fol-

lows:

- | | |
|---|--------------------------|
| Norman M. Wilke, Engineer of Design, Cleveland Planning Office | Topics (A)
(B) |
| Lawrence S. Waterbury, Assoc. Engineer, Parsons, Brinckerhoff, Hogan & Macdonald | Topics (C)
(J)
(M) |
| Hugo H. Winter, Eng. of Street & Parkway Design, Office of the City Engineer, Los Angeles | Topics (D)
(G) |
| Donald McNeil, Traffic Engineer, Bureau of Traffic Planning, Pittsburgh, Penna. | Topics (E)
(F) |
| A. F. Malo, Safety Engineer, Department of Street Railways, Detroit, Michigan | Topic (H) |
| Sigvald Johannesson, Director Division of Planning and Economics, New Jersey State Highway Department | Topics (I)
(K)
(L) |
| Fred J. Hughes, Secretary, Programming and Planning Engineer, Public Roads Administration | Topic (N) |
| Nathan Cherniack, Economist The Port of New York Authority | Topic (O) |
| Roy E. Jorgensen, Deputy Highway Commissioner State Highway Department of Connecticut | Topic (P) |
| W. T. Brooks, State Highway Engineer State Highway Department of Tennessee | Reviewing Authority |

Prior to the 1946 meeting of the Committee some progress had been made by the topic leaders in developing their sub-

jects and papers were submitted by Hugo H. Winter, covering the two topics assigned him, namely, (D) Design of Interchanges, and (G) Effect of Public Utilities, and by Norman M. Wilke, on his topics (A) Location in Relation to Street Systems, and (B) Effect of Width on Street Systems. Papers were also submitted by Sigvald Johannesson on his topics (I) Economics of Expressway, (K) Economics of Design, and (L) Traffic Data, and by Lawrence S. Waterbury on his assigned topics of (C) Spacing of Traffic Interchanges, (J) Effect on Tax Ratables, and (M) Economic Effect on Fronting Street Properties.

These papers were discussed by the Committee in session and suggestions offered by the members.

Insofar as the procedures were concerned, it was decided that during the year topic leaders would submit papers to the Secretary for preliminary review by the Chairman and then be circulated among the entire Committee membership for comments and suggestions. Such comments to be sent to the Secretary for coordination and transmission to the Reviewing Authority.

The Reviewing Authority will peruse the original paper together with the comments of Committee members and summarize the various suggestions and recommend revisions in the original manuscript. These recommendations will be transmitted to the Secretary for distribution to the various authors. The original author will then revise his manuscript as appears justified in the light of the comments of the Committee members and the recommendation of the Reviewing Authority.

In this manner it is hoped that a great deal of ground can be covered in progressing the work of the Committee during the year and that a considerable amount of coordination and threshing out of controversial issues may be accomplished, reserving to the Committee meetings such issues as can not well be resolved by correspondence. It is the ultimate aim of the Committee to submit a report on all of the above listed

topics as a coordinated whole for publication and dissemination to the membership of the Highway Research Board.

It is recognized by the Committee that many of the topics will necessarily overlap into other Departments and Committees of the Highway Research Board and it is the intention of the Committee to contact appropriate Department and Committee Chairman where such subjects overlap in order to avoid offering information in the report which would conflict with the findings of other Committees, and so as to take full advantage of research conducted by such Committees. It is earnestly requested that other Committees cooperate in this coordination in order that the entire effort may merge in with the activities of the entire Highway Research Board.

As an aid to uniformity and understanding the Committee will use the definitions of highway and traffic terms adopted by the American Association of State Highway Officials, Manual on Uniform Traffic Control Devices and the Highway Research Board Committee on Highway Capacity.

During the past year the Librarian of the Headquarters Staff of the Highway Research Board has prepared an extensive bibliography covering the various topics being investigated by the Committee and this bibliography is appended hereto.

To date papers have been prepared on the following topics:

- | | |
|---|-----------------------|
| (A) Location in Relation to Street Systems | Norman M. Wilke |
| (B) Effect of Width on Street Systems | |
| (C) Spacing of Traffic Interchanges | Lawrence S. Waterbury |
| (J) Effect of Tax Ratables | |
| (M) Economic Effect on Fronting Street Properties | |
| (D) Design of Interchanges | Hugo H. Winter |
| (G) Effect of Public Utilities | |
| (I) Economics of Expressway | Sigvald Johannesson |
| (K) Economics of Design | |

- (L) Traffic Data
- (N) Effect of Stage Construction Fred J. Hughes
- (O) Parking and Terminal Facilities Nathan Cherniack
- (P) Effect on Street Systems Roy E. Jorgensen

the work of the Committee, two of the above reports are being presented at this meeting, namely, "Parking and Terminal Facilities" by Nathan Cherniack, Economist, The Port of New York Authority (Topic (O)) and "Effect of Stage Construction" (Topic (N)) by Fred J. Hughes, Programming and Planning Engineer, Public Roads Administration.

As an indication of the progress of