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# MANUAL AND SPECIFICATIONS

FOR THE   
MANUFACTURE  
DISPLAY AND  
ERECTION OF  
U. S. STANDARD  
ROAD MARKERS  
 AND SIGNS

SECOND EDITION  
APRIL, 1929

REVISED 1931



# MANUAL AND SPECIFICATIONS

FOR THE

Manufacture, Display,  
and Erection of . . . . .

## U. S. STANDARD ROAD MARKERS AND SIGNS

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SECOND EDITION

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Adopted by the  
American Association of State Highway Officials

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DECEMBER, 1931

### Confirmatory Arrow

The Confirmatory Arrow M-19 A, Plate II, is to be mounted immediately below the Route Marker, M-3, to confirm an indicated deviation or branching of the route. It is for use immediately at the point where the deviation of the route occurs, rather than in advance of the branching. Directional Letters, M-4 are for general use in advance of a deviation in route.

However, where its use will cause no confusion, this Arrow, M-19 - may be used instead of the Directional Letters, M-4, below the Route Marker M-3, in advance of a deviation or branching of a route.

A Double Arrow, M-19A Plate II, is also provided for use where a route goes in both directions.

The color scheme of this sign is the same as for the Route Marker, M-3.

### Junction Signs

The Junction Sign, M-32-A, Plate II, is for use in advance of points where two or more routes meet or cross.

It should be displayed on the same standard and in combination with the numbered route markers of the road upon which it is erected and numbered markers of the road which it meets or crosses - the former appearing immediately above the junction sign and the latter immediately below. M-32-A is primarily a directional sign and not a caution sign and its color will be the same as for Route Marker M-3.

If two or more routes meet, cross or join, the necessary additional number plaques may be displayed on the same standard but below the junction sign in order of their relative importance.

### Detour Markers

Two general forms of Detour Markers are provided, either of which may be used.

At intersections or forks where the marked route turns, the Marker should be erected 200 to 300 feet in advance of the fork or turn with proper directional letter "R" or "L" immediately under the Marker. In cities it may be necessary to place the markers much closer to the intersection. Where impossible to locate Marker as specified the distance may, of course, be varied and where a Warning sign, required by the conditions of alignment, precedes a Marker the Marker should be placed, if possible, not less than 200 feet from the intersection. Through topography of the same general character the distance of Markers from turns should be maintained as nearly uniform as possible.

#### Markers with Confirmatory Arrows

Standard Markers with Confirmatory Arrows mounted below should be erected at the point of greatest visibility at the turn to confirm the change of direction in route and reassure the driver in case he has misread or failed to notice advance Directional Marker.

It is not possible to anticipate every case of intersection or topography but the conventional layout, Plate V, indicates the general rule and the diagrams, Plates VI to XV, show a variety of conditions that may be encountered.

#### Overlapping Routes

Where two or more routes follow the same road, as they may for short distances, markers for all routes should generally be erected and carried on the same support. The number by which the route is officially known in the records should be placed at the top. In order to avoid repeating the large marker, the numbers below the top one may be carried on a small rectangular substitute plaque as shown by Design M-28, Plate XVII.

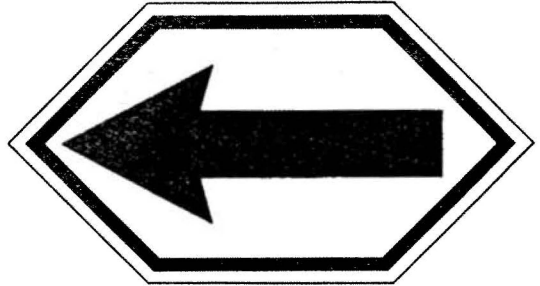
Two or more Route Markers should not be carried on the same post immediately in advance of a turn when only one route turns. In such cases the



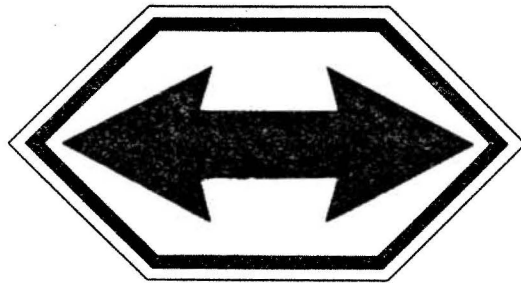
PLATE II



M-4



M-19



M-19A



M-32A

PLATE IX  
TYPICAL MARKING AT  
INTERSECTION OF U.S. OR STATE ROUTE  
WITH LOCAL ROAD SHOWING GUIDE SIGN

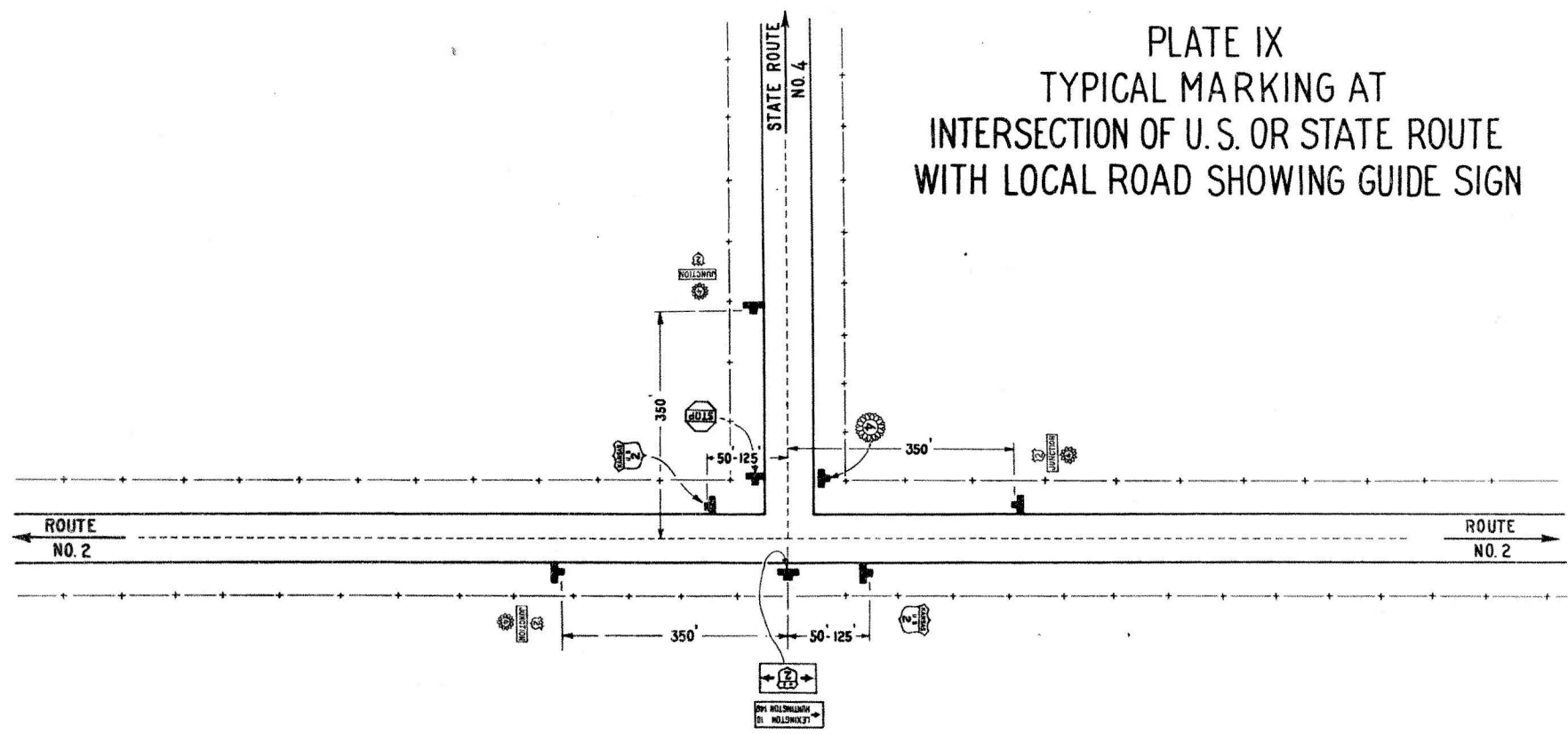


PLATE X  
TYPICAL INTERSECTION OF TWO OR MORE NUMBERED ROUTES

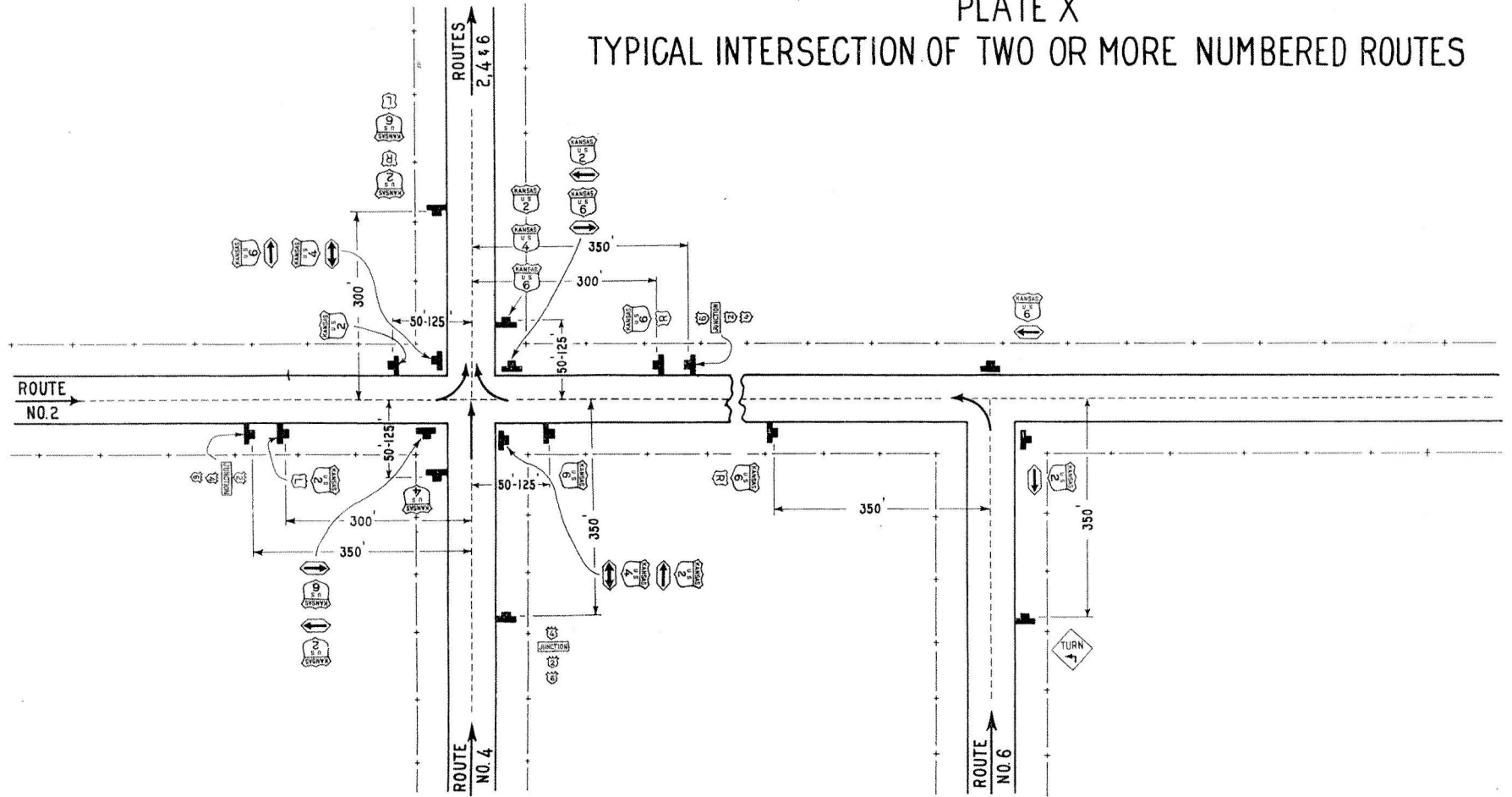
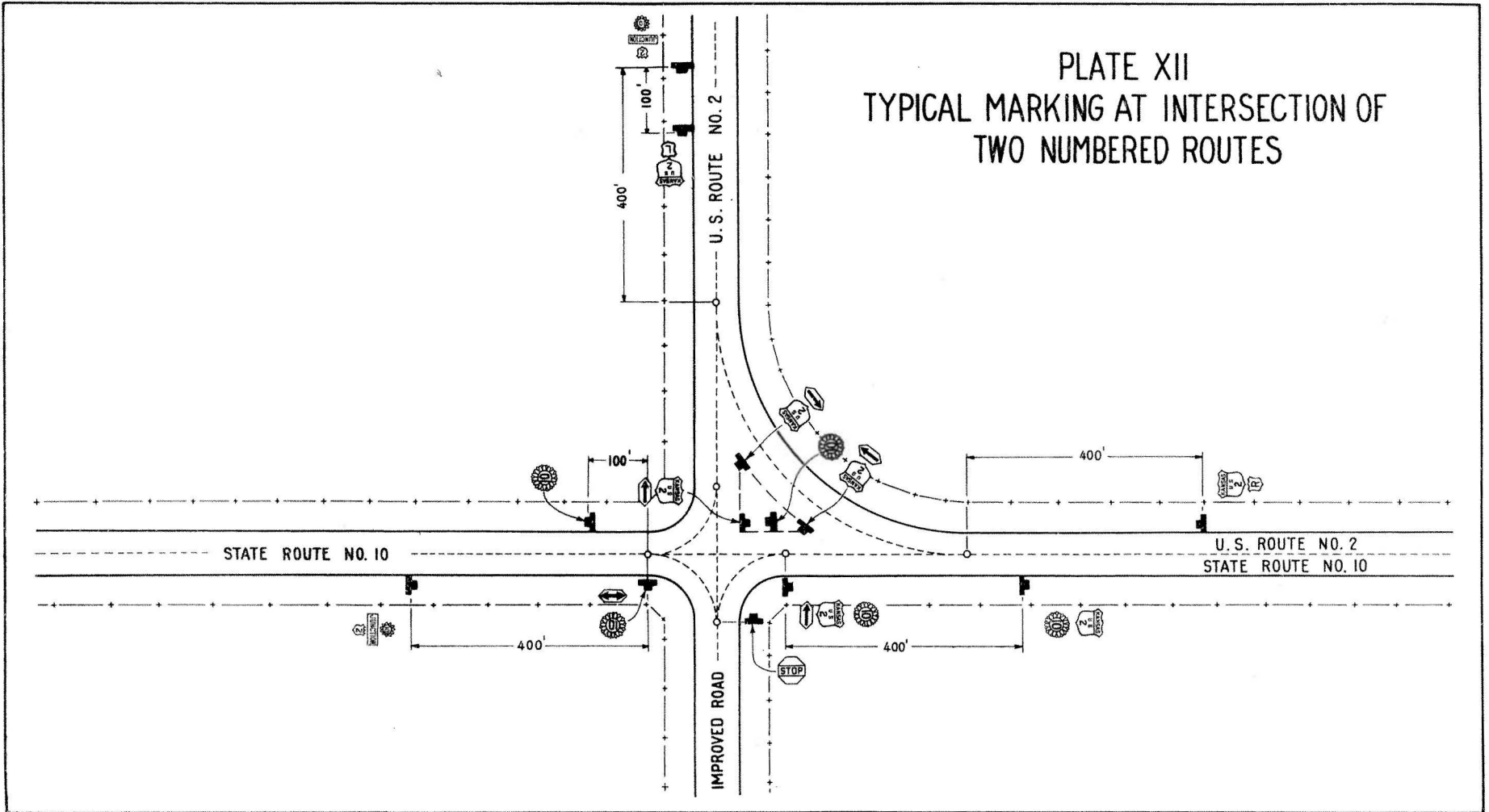


PLATE XII  
TYPICAL MARKING AT INTERSECTION OF  
TWO NUMBERED ROUTES



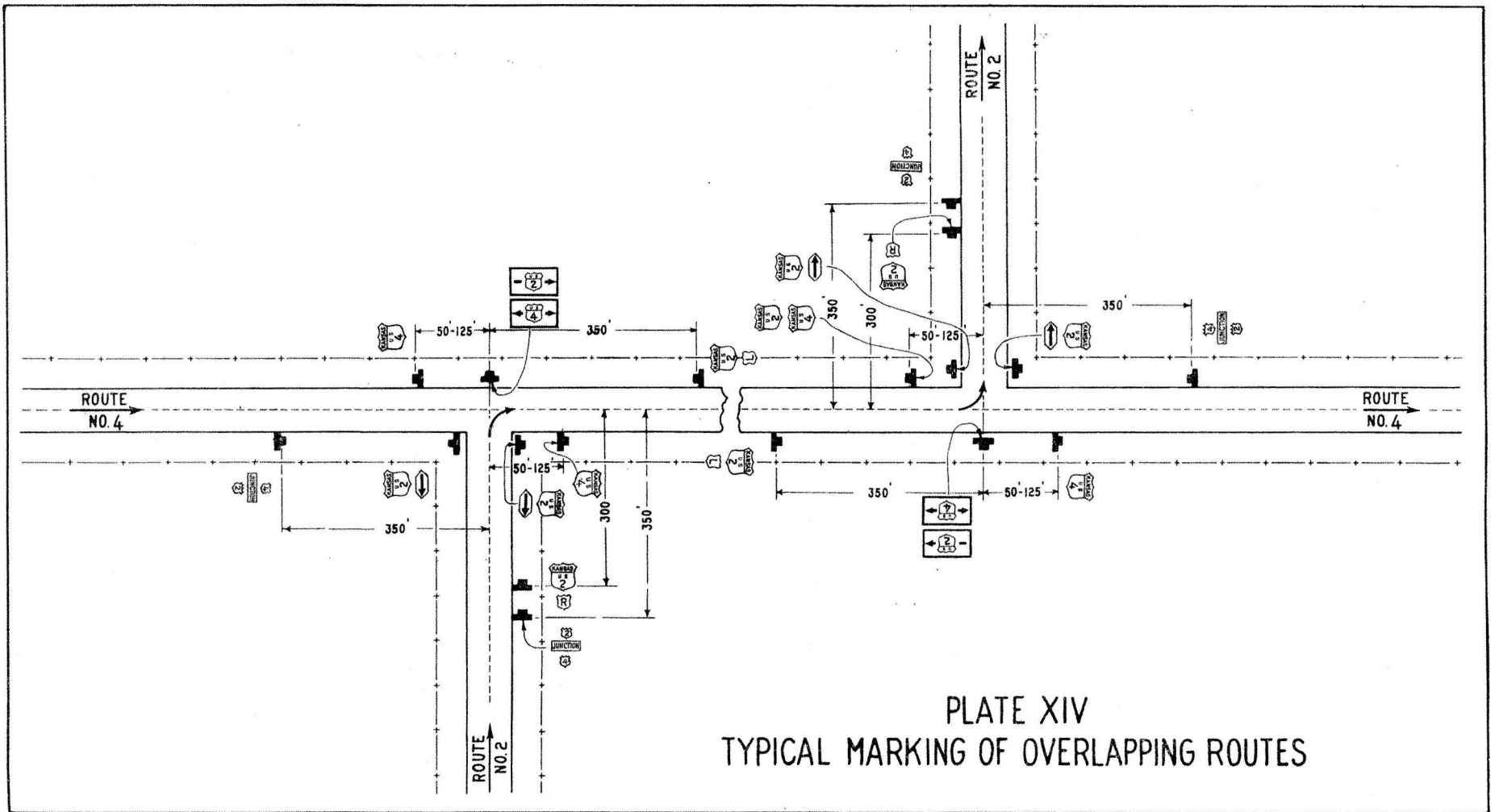


PLATE XIV  
 TYPICAL MARKING OF OVERLAPPING ROUTES



PLATE XV  
TYPICAL MARKING OF TWO OR MORE INTERSECTING  
AND LAPPING NUMBERED ROUTES

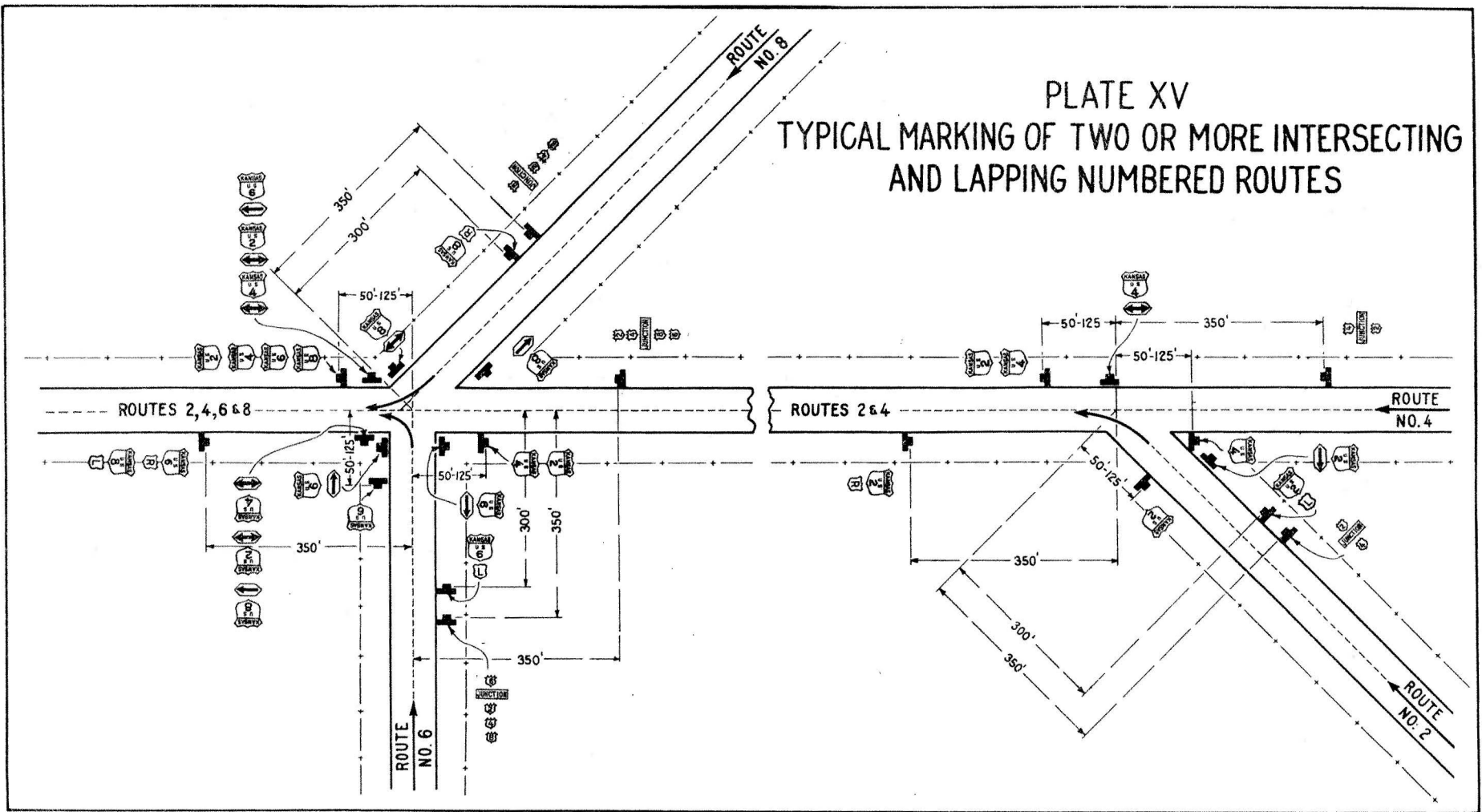


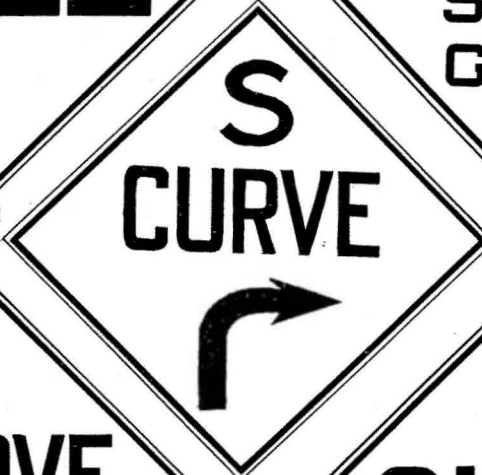
PLATE XXI  
CAUTION SERIES



C-1



C-2



C-4



C-3



C-5



C-6



C-8

PLATE XXII  
CAUTION SERIES



C-9



C-10



C-11



C-12



C-13



C-14

PLATE XXVII  
RESTRICTION SIGN SERIES



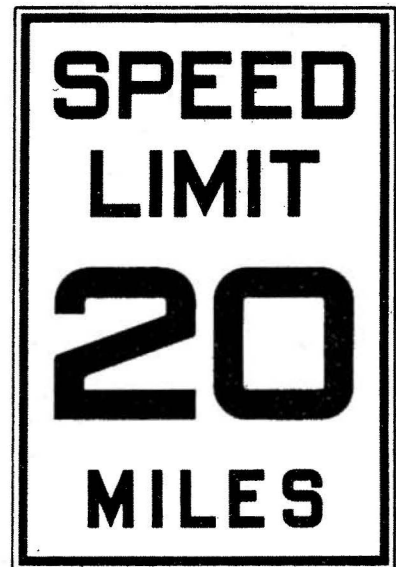
R-1



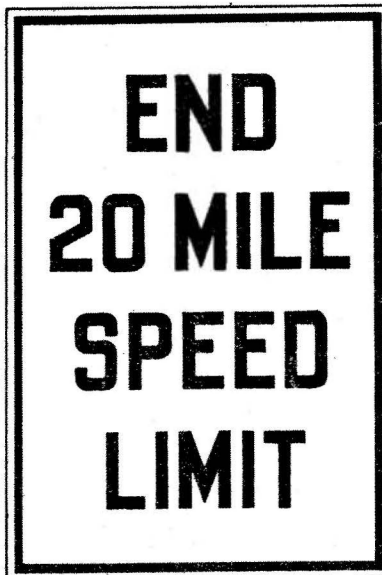
R-2



R-3



R-4



R-10



R-5

PLATE XXVII-A  
RESTRICTION SIGN SERIES



R-7



R-9



R-11



APPENDIX.

STANDARD ROAD SIGNS AND MARKERS.

Approved by Joint Board on Interstate Highways.  
and  
Adopted by Association of State Highway Officials.

Check List of Working Drawings

Marker Series

- M-1 Blank for Route Marker.
- M-2 Blank for Turn Marker.
- M-3 Route Marker Design (2 digits) Requires also M-1, Insets M-17, M-18, A-39, A-51, A-52, A-61, and A-40.
- M-4 Turn Marker Design (Right) Requires also M-2 and A-66.
- M-5 State Name Insets for Wisconsin, Illinois, Missouri and Ohio. Requires also A-33, A-45.
- M-6 State Name Insets for Arkansas, Iowa, Minnesota and Indiana. Requires also A-33, A-45.
- M-7 State Name Insets for Alabama, Arizona, California and Colorado. Requires also A-33 A-45.
- M-8 State Name Insets for Connecticut, Delaware, Florida and Georgia. Requires also A-33, A-45, and A-61.
- M-9 State Name Insets for Idaho, Kansas, Kentucky and Louisiana. Requires also A-33, A-45 and A-61.
- M-10 State Name Insets for Maine, Maryland, Massachusetts and Michigan. Requires also A-33 and A-45.
- M-11 State Name Insets for Mississippi, Montana, Nebraska and Nevada. Requires also A-17 and A-33.
- M-12 State Name Insets for New Hampshire, New Jersey, New Mexico and New York. Requires also A-17, A-33 and A-77.
- M-13 State Name Insets for North Carolina, North Dakota, Oklahoma and Oregon. Requires also A-17, A-33 and A-45.
- M-14 State Name Insets for Pennsylvania, Rhode Island, South Carolina and South Dakota. Requires also A-17 and A-33.

- M-15 State Name Insets for Tennessee, Texas, Utah and Vermont. Requires also A-17, A-45, A-61 and A-77.
- M-16 State Name Insets for Virginia, Washington, West Virginia and Wyoming. Requires also A-17, A-33 and A-45.
- M-17 Three digit number inset. Requires also A-39, A-40 and A-61.
- M-18 Two digit number and letter inset. Requires also A-46, A-51, A-52 and A-61.
- M-19 Single Arrow.
- M-19A Double Arrow.
- M-20 Detour Arrow - Right. Requires also A-102.
- M-21 Detour Arrow - Left. Requires also M-20 and A-102.
- M-22 Blank for City Marker.
- M-23 City Marker Design (3 digits) Requires also A-20, A-48, A-97.
- M-24 Stencil for City Marker. Requires also A-20, A-48 and A-97.
- M-25 Two digit number inset (City Marker). Requires also A-48.
- M-26 Detour and Temporary Plates. Requires also A-97 and A-102.
- M-27 Detour and Temporary Shield Marker. Requires also A-17 and A-45.
- M-28 Number plaque. Requires also A-48.
- M-29 Special Shield Inset. 17-1. Requires also A-48 and A-61.
- M-30 City Marker Inset 17-1. Requires also A-20.
- M-32A Junction. Requires also A-61.
- M-33 Special Shield Inset showing 3 numerals and letter.

Warning Series

- W-1 Railroad Single Track. Requires also A-70.
- W-2 Railroad - Multiple Track. Requires also A-70.
- W-3 Stop. Requires also A-70 and A-71.
- W-3A Stop Sign Inset. Requires also A-33.
- W-3B Stop Sign Inset. Requires also A-33.

Restriction Series

- R-1 Load Limit. Requires also A-37-38-39.
- R-2 No Dumping. Requires also A-37-38-39.
- R-3 No Parking. Requires also A-37-38.
- R-4 Speed Limit. Requires also A-46-91-92-100.
- R-5 Tractor Sign. Requires also A-46.
- R-6 Slow Traffic - Keep to Right. Requires also A-19-21-22-23
- R-7 Do Not Stop on Pavement. Requires also A-19.

- R-8 Keep to the Right. Requires also A-21-22-23-25-26-27.
- R-9 Watch Traffic Signals. Requires also A-21-22-23.
- R-10 End 20 Mile Speed Limit. Requires also A-35-36.

Caution Series

- C-1 Hill. Requires also A-73 and A-74.
- C-2 Hill Shift Gear. Requires also A-69,70,78.
- C-3 Curve (Right) Requires also A-41, 42, 43.
- C-4 Left Curve and S Curve symbol insets. See C-3.
- C-5 Slow. Requires also A-94 and A-95.
- C-6 Turn (Right) Requires also A-54 and A-55.
- C-7 Left and Double Turn insets. See also C-6.
- C-7A Two-Way Arrow. See C-6.
- C-8 Fresh Oil. Requires also A-37,A-38 and A-39.
- C-9 Hospital Zone. Requires also A-21,22 & 23.
- C-10 School Zone. Requires also A-37,38 and 39.
- C-11 Narrow Bridge. Requires also A-47.
- C-12 Narrow Road. Requires also A-47.
- C-13 Loose Gravel. Requires also A-21,22 & 23.
- C-14 Soft Shoulders. Requires also A-21,22 & 23.
- C-15 Cross Road. Requires also A-49, 50 and 51.
- C-16 Side Road. Requires also A-49, 50 and 51.
- C-17 Begin Detour. Requires also A-41, 42, 43, 45, 98 & 99.
- C-18 End Detour. Requires also A-41, 42, 43, 45, 98 and 99.
- C-19 Pavement Ends. Requires also A-21, 22, 23.
- C-20 New Grading. Requires also A-21, 22 and 23.
- C-21 Winding Road. Requires also A-47.
- C-22 Road Repairs ahead. Requires also A-37, 38, 39 and 47.
- C-23 Dip. Requires also A-64, 77, 85 and 86.
- C-24 Cattle Guard. Requires also A-45, 47 and 99.
- C-25 Draw Bridge. Requires also A-21, 22 and 23.
- C-26 Road Closed. Requires also A-47.
- C-27 Tunnel. Requires also A-41, 42 and 43.
- C-28 Church. Requires also A-25, 26 and 27.
- C-29 Men Working. Requires also A-21, 22 and 23.
- C-30 Low Bridge. Requires also A-47.
- C-31 Slow - Dangerous dip. Requires also A-22, 23 and 35.
- C-32 Underpass. Requires also A-21, 22 and 23.
- C-33 Trunk Highway. See also A-21, 22, 23.

Direction and Information Series

- D-1 Directional (Single Board and Slat)  
Requires also A-98, 99, 103 and 104.
- D-2 County Line Sign. Requires also A-19, 20 & 46.
- D-3 Physical Feature. Requires also A-35, 36.
- D-5 Drinking Water. Requires also A-46.
- D-6 Blank for Rest Station.
- D-7 Rest Station Design. Requires also A-17, 18.
- D-8 Night Sign (Single Arrow) Requires also  
M-22, 25, A-20, 48 and 97.
- D-9 Night Sign (Double Arrow) Requires also  
M-22, 25, A-20, 48 and 97.
- D-10 Tourist Camp. Requires also A-37, 38 and 39.
- D-11 City Limit. Requires also A-47.
- D-12 Village Limit. Requires also A-35.
- D-13 Drinking Water ahead. Requires also A-35  
and A-47.
- D-14 Special Sign (Constructed by U. S. Department  
of Agriculture, Bureau of Public Roads)
- D-15 Public Water Supply Approved by State Board of  
Health. See also A-1 and A-18.
- D-16 Approved Tourist Camp - Missouri State Board of  
Health. Requires also A-1 and A-18.
- D-17 Side Road - Right. Requires also A-37, 38, 39  
and 98.
- D-17A Side Road - Left. Requires also A-98.
- D-18 First Aid -  $\frac{1}{2}$  Mile (American Red Cross) Requires  
also A-33, 98 and 102.
- D-19 First Aid Station (American Red Cross, D. C.  
Chapter) See also A-1 and A-98.