

APPENDIX A1. CONGRESSIONAL LEGISLATION

APPENDIX A2. METRIC CONVERSIONS

APPENDIX A1

CONGRESSIONAL LEGISLATION

PUBLIC LAW 102-240-DEC. 18, 1991 (INTERMODAL SURFACE TRANSPORTATION EFFICIENCY ACT OF 1991)

Section 1077. REVISION OF MANUAL — Not later than 90 days after the date of the enactment of this Act, the Secretary shall revise the Manual of Uniform Traffic Control Devices and such other regulations and agreements of the Federal Highway Administration as may be necessary to authorize States and local governments, at their discretion, to install stop or yield signs at any rail-highway grade crossing without automatic traffic control devices with 2 or more trains operating across the rail-highway grade crossing per day.

PUBLIC LAW 102-388-OCT. 6, 1992 (DEPARTMENT OF TRANSPORTATION AND RELATED AGENCIES APPROPRIATIONS ACT, 1993)

Section 406 — The Secretary of Transportation shall revise the Manual of Uniform Traffic Control Devices to include —

- (a) a standard for a minimum level of retroreflectivity that must be maintained for pavement markings and signs, which shall apply to all roads open to public travel; and
- (b) a standard to define the roads that must have a centerline or edge lines or both, provided that in setting such standard the Secretary shall consider the functional classification of roads, traffic volumes, and the number and width of lanes.

PUBLIC LAW 104-59-NOV. 28, 1995 (NATIONAL HIGHWAY SYSTEM DESIGNATION ACT OF 1995)

Section 205. RELIEF FROM MANDATES —

(c) METRIC REQUIREMENTS —

(1) **PLACEMENT AND MODIFICATION OF SIGNS** — The Secretary shall not require the States to expend any Federal or State funds to construct, erect, or otherwise place or to modify any sign relating to a speed limit, distance, or other measurement on a highway for the purpose of having such sign establish such speed limit, distance, or other measurement using the metric system.

(2) **OTHER ACTIONS** — Before September 30, 2000, the Secretary shall not require that any State use or plan to use the metric system with respect to designing or advertising, or preparing plans, specifications, estimates, or other documents, for a Federal-aid highway project eligible for assistance under title 23, United States Code.

(3) **DEFINITIONS** — In this subsection, the following definitions apply:

(A) **HIGHWAY** — The term ‘highway’ has the meaning such term has under section 101 of title 23, United States Code.

(B) **METRIC SYSTEM** — the term ‘metric system’ has the meaning the term ‘metric system of measurement’ has under section 4 of the Metric Conversion Act of 1975 (15 U.S.C. 205c).

Section 306. MOTORIST CALL BOXES — Section 111 of title 23, United States Code, is amended by adding at the end the following:

(c) MOTORIST CALL BOXES —

(1) **IN GENERAL** — Notwithstanding subsection (a), a State may permit the placement of motorist call boxes on rights-of-way of the National Highway System. Such motorist call boxes may include the identification and sponsorship logos of such call boxes.

(2) SPONSORSHIP LOGOS —

(A) **APPROVAL BY STATE AND LOCAL AGENCIES** — All call box installations displaying sponsorship logos under this subsection shall be approved by the highway agencies having jurisdiction of the highway on which they are located.

(B) **SIZE ON BOX** — A sponsorship logo may be placed on the call box in a dimension not to exceed the size of the call box or a total dimension in excess of 12 inches by 18 inches.

(C) **SIZE ON IDENTIFICATION SIGN** — Sponsorship logos in a dimension not to exceed 12 inches by 30 inches may be displayed on a call box identification sign affixed to the call box post.

(D) **SPACING OF SIGNS** — Sponsorship logos affixed to an identification sign on a call box post may be located on the rights-of-way at intervals not more frequently than 1 per every 5 miles.

(E) **DISTRIBUTION THROUGHOUT STATE** — Within a State, at least 20 percent of the call boxes displaying sponsorship logos shall be located on highways outside of urbanized areas with a population greater than 50,000.

(3) **NONSAFETY HAZARDS** — The call boxes and their location, posts, foundations, and mountings shall be consistent with requirements of the Manual on Uniform Traffic Control Devices or any requirements deemed necessary by the Secretary to assure that the call boxes shall not be a safety hazard to motorists.

Section 353(a) SIGNS — Traffic control signs referred to in the experimental project conducted in the State of Oregon in December 1991 shall be deemed to comply with the requirements of Section 2B-4 of the Manual on Uniform Traffic Control Devices of the Department of Transportation.

Section 353(b) STRIPES — Notwithstanding any other provision of law, a red, white, and blue center line in the Main Street of Bristol, Rhode Island, shall be deemed to comply with the requirements of Section 3B-1 of the Manual on Uniform Traffic Control Devices of the Department of Transportation.

APPENDIX A2

METRIC CONVERSIONS

Throughout this Manual all dimensions and distances are provided in English units. Tables A2-1 through A2-4 show the equivalent Metric (International System of Units) value for each of the English unit numerical values that are used in this Manual.

Table A2-1. Conversion of Inches to Millimeters

Inches	Millimeters	Inches	Millimeters	Inches	Millimeters
0.25	6	5	125	27	675
0.4	10	6	150	28	700
0.5	13	8	200	30	750
0.75	19	9	225	32	800
1	25	10	250	36	900
1.25	31	10.4	260	42	1050
2	50	10.6	265	48	1200
2.25	56	12	300	54	1350
2.5	62	15	375	60	1500
3	75	16	400	72	1800
3.5	87	18	450	84	2100
4	100	21	525	120	3000
4.5	113	24	600		

Note: 1 inch = 25.4 millimeters; 1 millimeter = 0.039 inches

Table A2-2. Conversion of Feet to Meters

Feet	Meters	Feet	Meters	Feet	Meters
1	0.3	18	5.5	130	675
2	0.6	19	5.8	140	700
2.5	0.75	20	6.1	150	750
3	0.9	22	6.7	180	800
3.25	1	23.5	7.2	130	40
3.5	1.1	25	7.6	140	43
4	1.2	25.6	7.8	150	45
4.5	1.4	30	9	180	55
4.75	1.45	32	9.8	200	60
5	1.5	33	10	250	75
5.67	1.7	36	11	300	90
6	1.8	40	12	330	100
7	2.1	50	15	400	120
8	2.4	53	16	500	150
9	2.7	60	18	530	160
9.25	2.8	70	21	600	180
9.5	2.9	72	22	650	200
10	3	75	23	700	210
11	3.4	80	24	750	230
12	3.7	90	27	800	245
12.75	3.9	95	29	1,000	300
14	4.3	100	30	1,500	450
15	4.6	110	34	2,000	600
16	4.9	120	37	2,300	700
17	5.2	125	38	3,000	900

Note: 1 foot = 0.3048 meters; 1 meter = 3.28 feet

Table A2-3. Conversion of Miles to Kilometers

Miles	Kilometers
0.25	0.4
0.5	0.8
0.6	1
1	1.6

Miles	Kilometers
2	3.2
3	4.8
5	8
10	16

Miles	Kilometers
15	25
70	110

Note: 1 mile = 1.609 kilometers; 1 kilometer = 0.621 miles

**Table A2-4. Conversion of Miles per Hour
to Kilometers/Hour**

mph	km/h
3	5
7	11
10	16
15	20
20	30

mph	km/h
25	40
30	50
35	60
40	60
45	70

mph	km/h
50	80
55	90
60	100
65	105
80	130

Note: 1 mile per hour = 1.609 kilometers/hour; 1
kilometer/hour = 0.621 miles per hour