

TAC Report – Review of Winter Street and Dearborn Academy February 11, 2009

Resident Letter Comments

Problems observed:

- Excessive speeds
- “Near miss” accidents backing out of driveway
- Damage to the driver’s side mirror on cars parked on the street

Consider solutions such as:

- Installing a raised speed platform or speed bump in front of the school and field
- Clearly posting the speed limit in several locations along the street
- Installing a curb along the east side of the street where there is no curb. The lack of curbing allows cars to park on the grass, creating a wider path for traffic and thereby encouraging speeding.

Traffic Counts -- September 23 (Tuesday) and 24 (Wednesday), 2008

One-way Mass Ave. to Broadway

Volumes

- Average daily volume – 1,755 vehicles
- Morning peak hour – 131 vehicles
- Evening peak hour – 159 vehicles

Speed

- Speed limit – 30 mph (not posted)
- Average speed – 24 mph
- 85th percentile speed – 29 mph
- Over 30 mph – 7.4%

Proposed Recommendations

- A. Establish a formal school speed zone for Dearborn Academy¹ on Winter Street and update the existing school zone signs on Oxford Street.
- Install Reduced Speed School Zone Ahead Sign: S4-5² (SCHOOL SPEED LIMIT 20) or S4-5a (20 MPH SCHOOL ZONE AHEAD) on both streets
 - Install School Speed Limit Assembly: S4-3 (SCHOOL), R2-1 (SPEED LIMIT 20), and S4-6 (MON-FRI) 100 feet in advance of the school property line on both streets

¹ Dearborn Academy is one of New England’s leading state-approved, psycho-educational day schools serving children in elementary, middle, and high school with emotional, behavioral, and learning difficulties. The school currently enrolls over 100 students from over 45 communities.

² Manual on Uniform Traffic Control Devices (MUTCD) designation

- Install END SCHOOL ZONE sign (S5-2) 100 feet beyond the school property line on Winter Street.
 - Move existing END SCHOOL ZONE signs on Oxford Street to 100 feet beyond the school property line
 - Remove existing SCHOOL ZONE AHEAD sign on Oxford Street.
 - Install SCHOOL pavement marking at school property line before the school building on both streets
- B. Install Playground sign (W15-1) 100 feet in advance of the playground on both Winter Street and Oxford Street.
- C. Remove existing crosswalks, School Advance Warning assemblies and School Crosswalk Warning Assembly on Winter Street opposite the playground.
- D. Install Crosswalk Warning Assembly at crosswalk across Oxford Street at Raleigh Street.

Submitted:

Howard Muise



Winter Street approaching Dearborn Academy



Dearborn Academy and playground on left; crosswalk sign just beyond black car



Faded crosswalks



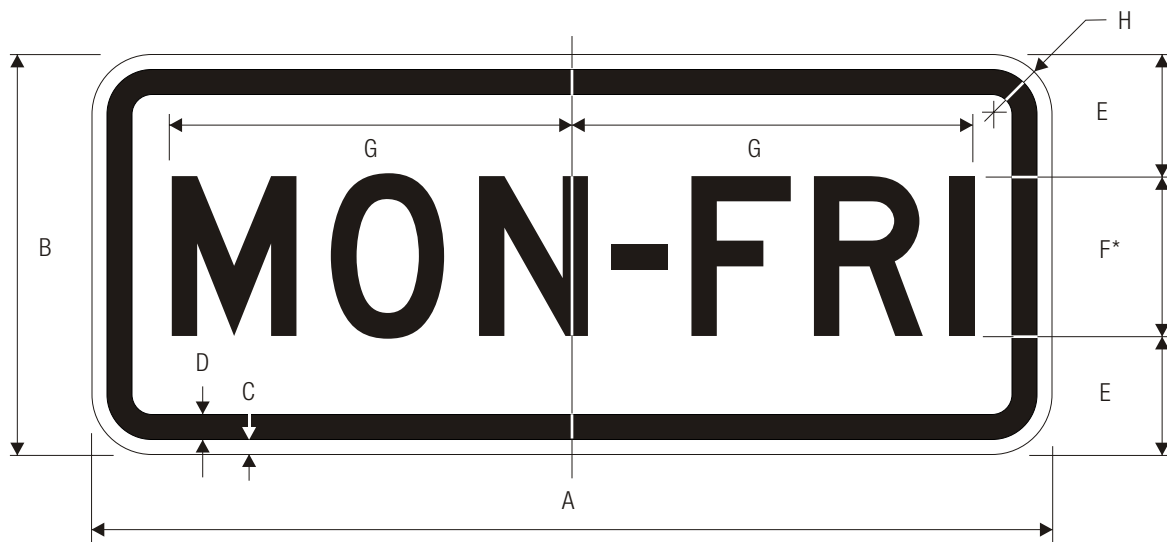
School Crosswalk Warning Assembly



Existing SCHOOL ZONE AHEAD sign on Oxford Street



END SCHOOL ZONE signs on Oxford Street



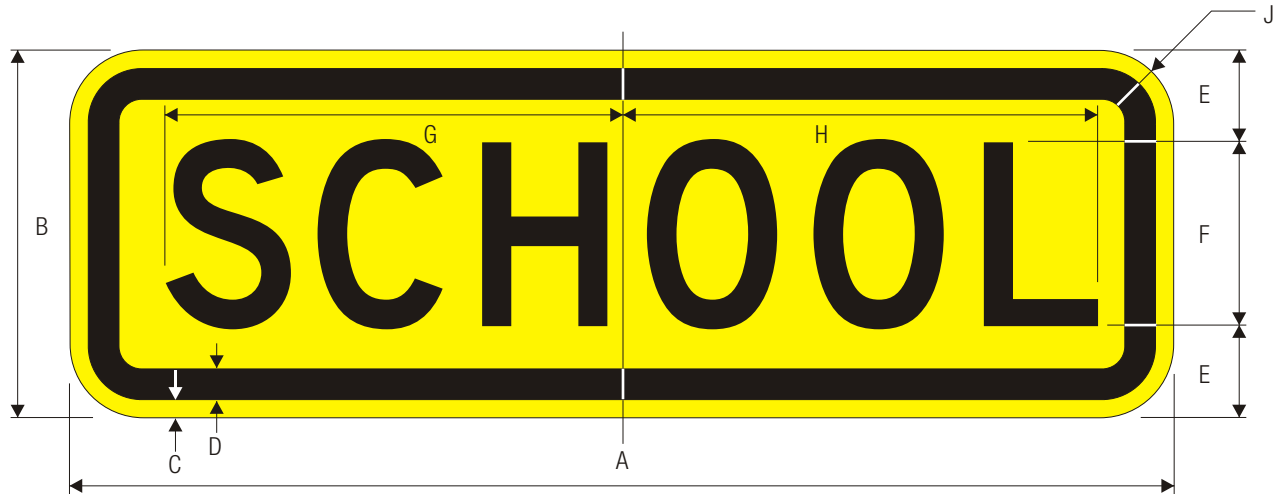
S4-6

MON-FRI

*Series 2000 Standard Alphabets.

	A	B	C	D	E	F	G	H
C	24	10	.375	.625	3	4 D	10	1.5
	36	18	.625	.875	6	6 D	15	2.25

COLORS: LEGEND — BLACK
 BACKGROUND— WHITE (RETROREFLECTIVE)

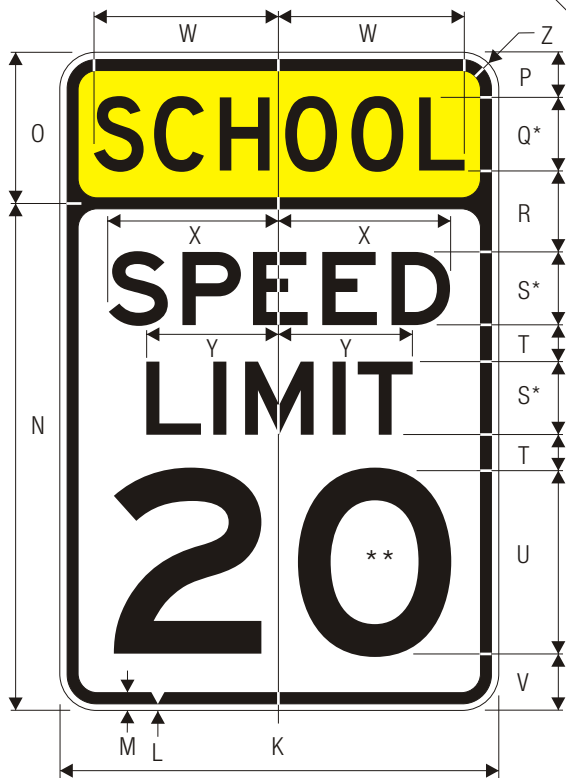
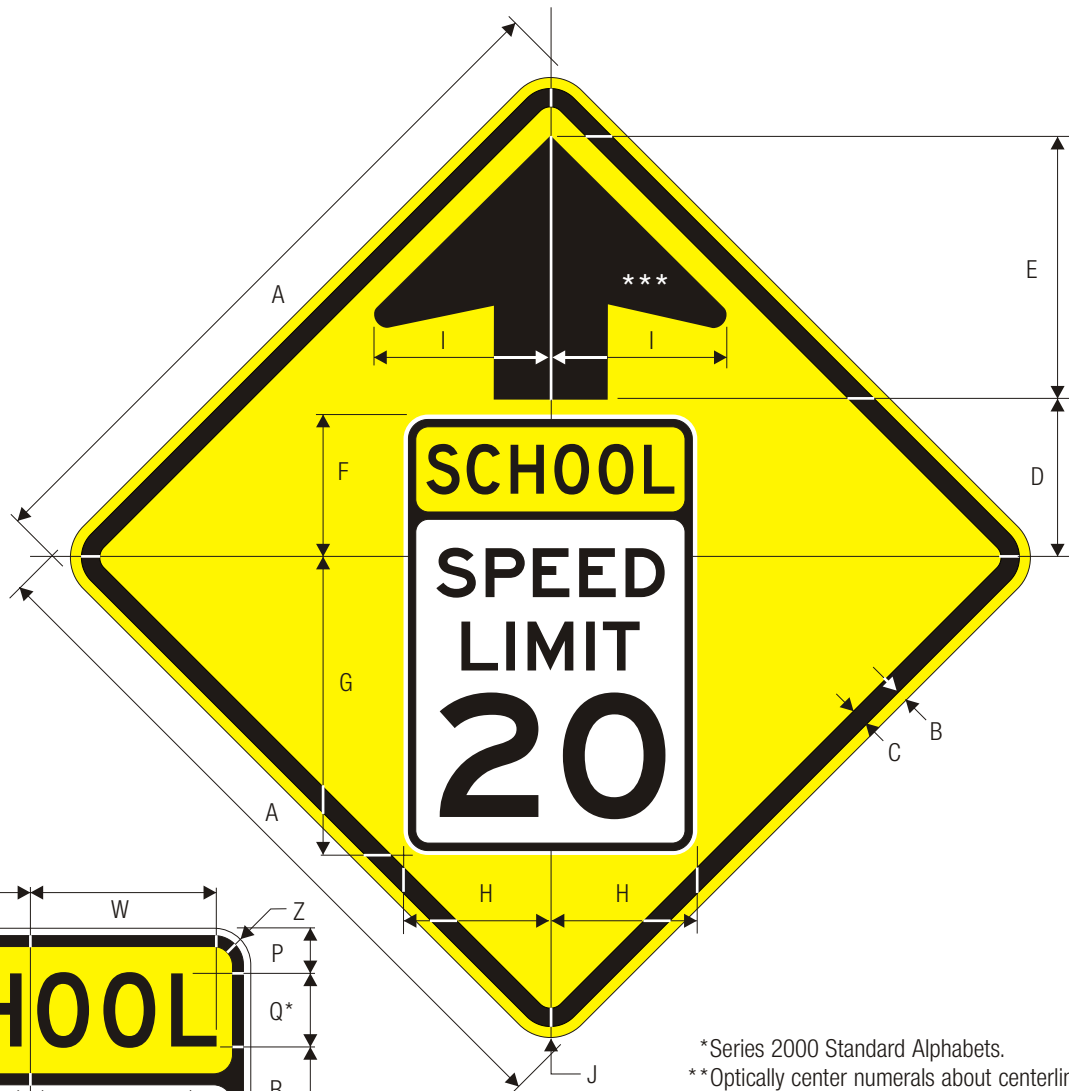


S4-3
SCHOOL

12" Size for In-Street use.

	A	B	C	D	E	F	G	H	J
	12	6	.375	.438	2	2 C	4.1	4.46	1.5
C	24	8	.375	.625	2	4 D	10	10.25	1.5
	36	12	.625	.875	3	6 D	15	15.375	2.25
	48	16	.75	1.25	4	8 D	20	20.5	3

COLORS: LEGEND — BLACK
 BACKGROUND— YELLOW (RETROREFLECTIVE)
 FLOURESCENT YELLOW GREEN (RETROREFLECTIVE) OPTIONAL



*Series 2000 Standard Alphabets.
 **Optically center numerals about centerline.
 ***See page 6-3 for symbol design.

S4-5

REDUCED SPEED (SCHOOL) ZONE AHEAD

A	B	C	D	E	F	G
36	.625	.875	8.25	13.5	7.5	15
48	.75	1.25	11	18	10	20

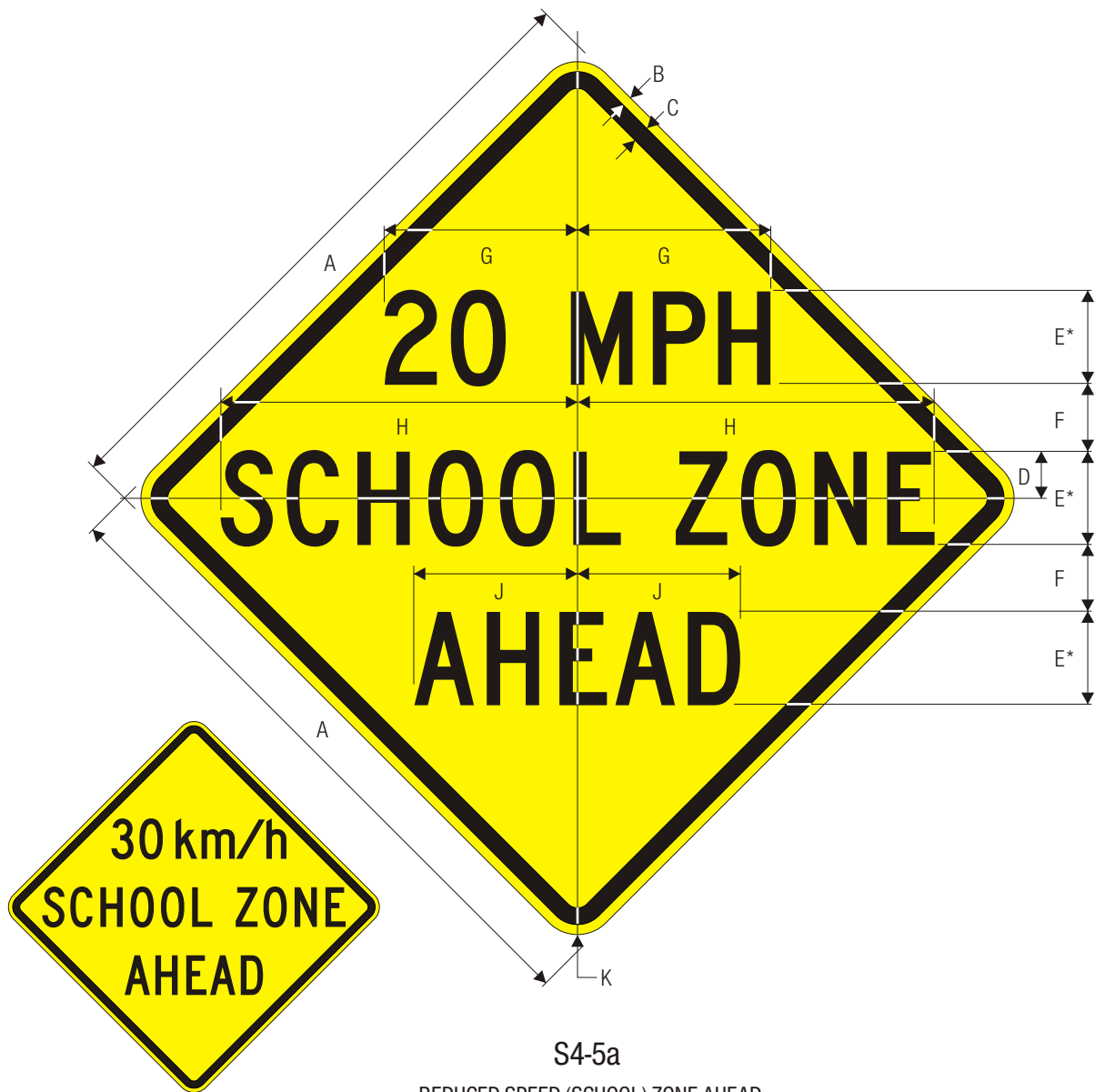
H	I	J	K	L	M	N
7.5	9	2.25	15	.25	.375	17.325
10	12	3	20	.3	.5	23.1

O	P	Q	R	S	T	U
5.175	1.5	2.5 D	2.75	2.5 E	1.25	6.25
6.9	2	3.3 D	3.7	3.3 E	1.625	8.3 E

V	W	X	Y	Z
2	6.336	5.832	4.551	1.25
2.85	8.449	7.777	6.069	1.6

COLORS:

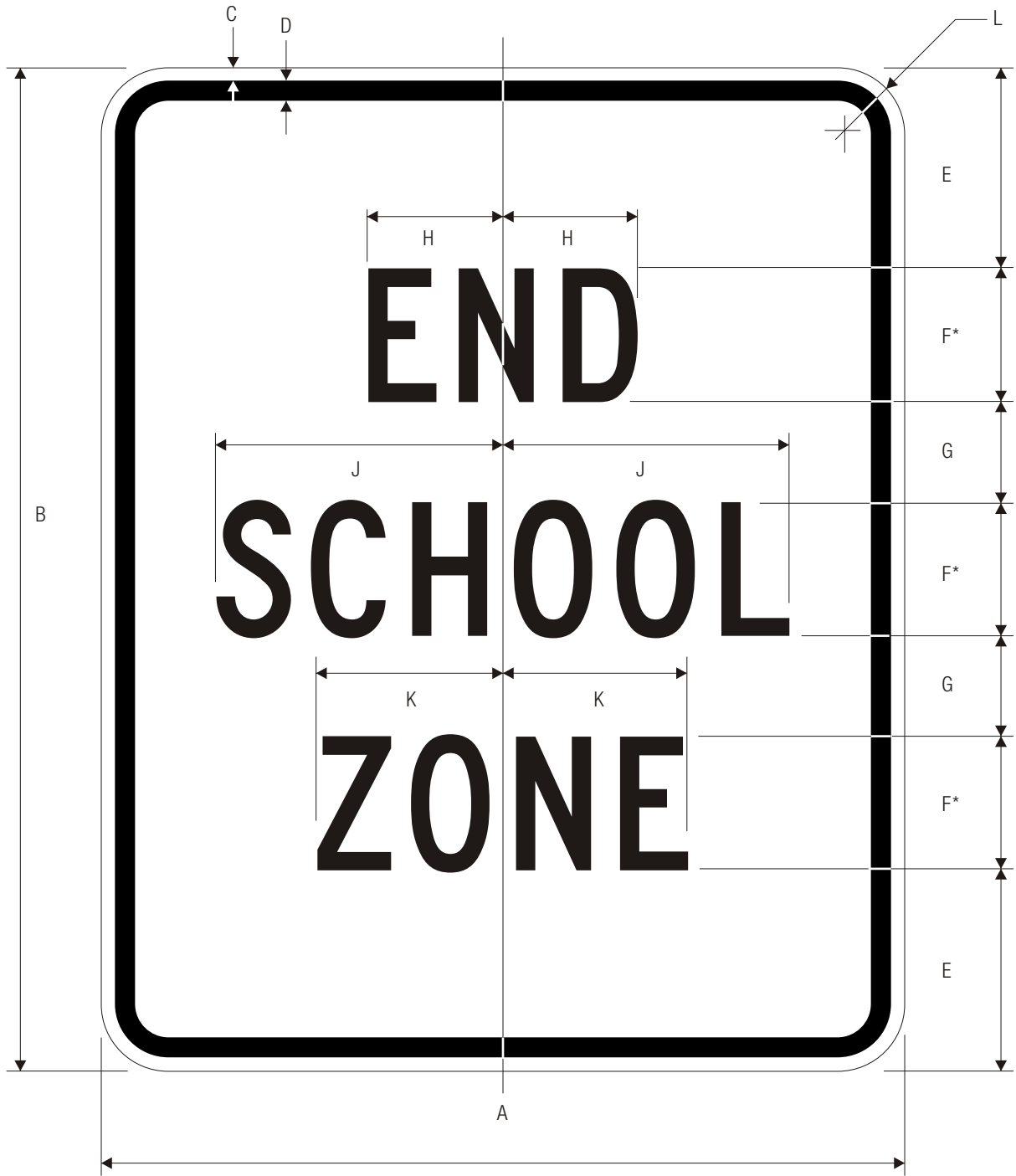
BORDER & ARROW – BLACK
 LEGEND – BLACK
 BACKGROUND – YELLOW (RETROREFLECTIVE)
 OR YELLOW-GREEN FLOURESCENT



*Series 2000 Standard Alphabets.

A	B	C	D	E	F	G	H	J	K
30	.5	.75	2	4 C	3.5	8.254	15.274	6.971	1.875
36	.625	.875	2.5	5 C	3.5	10.319	19.094	8.714	2.25
48	.75	1.25	3.5	7 C	5	14.444	26.729	12.198	3

COLORS: LEGEND — BLACK
 BACKGROUND — YELLOW (RETROREFLECTIVE)
 OPTIONAL: YELLOW-GREEN FLUORESCENT (RETROREFLECTIVE)

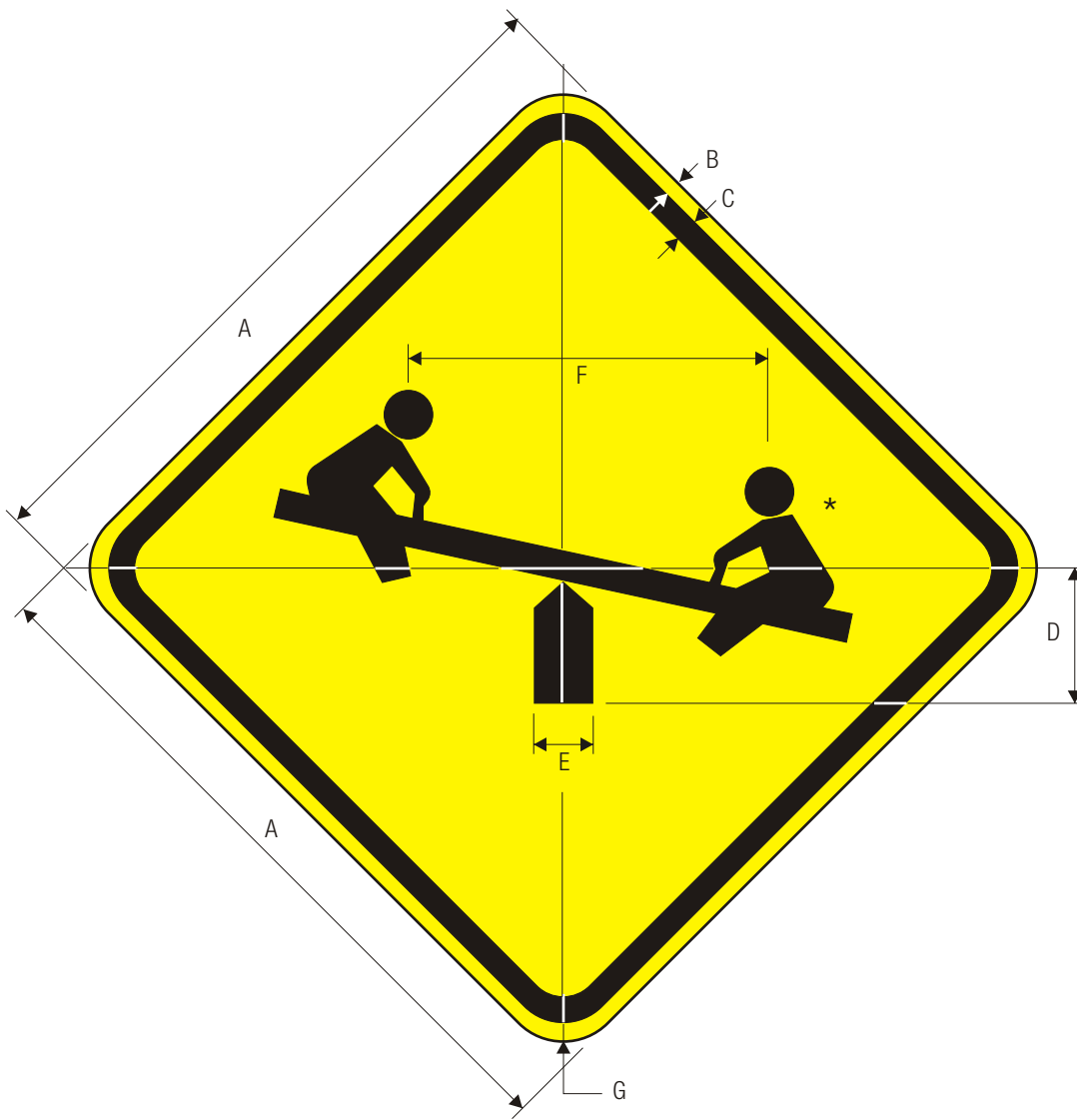


S5-2
END SCHOOL ZONE

*Series 2000 Standard Alphabets.

	A	B	C	D	E	F	G	H	J	K	L
C	24	30	.375	.625	6	4 C	3	4.023	8.566	5.143	1.5
	36	48	.625	.875	10	6 C	5	6.044	12.849	8.326	2.25

COLORS: LEGEND — BLACK
BACKGROUND— WHITE (RETROREFLECTIVE)



W15-1
PLAYGROUND

*See page 6-34 for symbol design.
**Option.

	A	B	C	D	E	F	G
	18	.375	.625	3.5	1.5	9.312	1.5
	24	.375	.625	4.6	2	12.4	1.5
C	30	.5	.75	5.75	2.5	15.5	1.875
	36	.625	.875	7	3	18.625	2.25

COLORS: SYMBOL — BLACK
 BACKGROUND — YELLOW (RETROREFLECTIVE)
 — FLOURESCENT YELLOW GREEN (RETROREFLECTIVE)