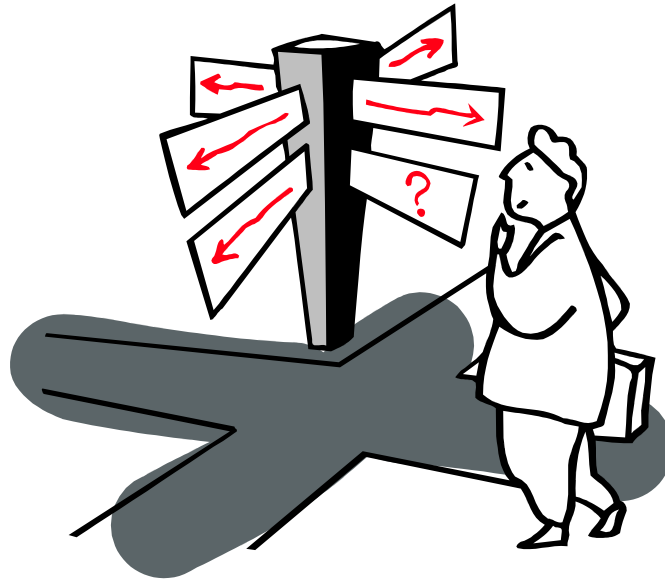


STREET NAME SIGNS



SPECIFICATIONS FOR FABRICATING AND INSTALLING

Public Works Department
Capital Projects Division
Traffic Engineering Section
City of Kansas City, Missouri

March 2013

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INTRODUCTION

Kansas City, Missouri Subdivisions Regulations adopted (City Ordinance Number 41498) March 30, 1973 require land developers to provide street name signs in accordance with city specifications at each intersection within new subdivisions. This includes intersections created along the perimeter of developments when new streets are opened and connected to existing streets. All street name sign installations are subject to the approval of the Capital Projects Division and will be considered as part of the overall construction requirements for subdivisions. The approved street name signs must be installed in their proper locations by the developer before final acceptance of street and sidewalk construction by the City Engineer.

These specifications have been written as an aid for the correct fabrication and field installation of the street name sign assemblies. In the interest of economy and sign uniformity throughout the City, deviations from these specifications will not be permitted. When unusual circumstances are encountered, developers are urged to contact the Capital Projects Division, at 513-9846 for assistance in proper placement of street name signs. All sign assemblies shall be manufactured and installed in accordance with the Manual on Uniform Traffic Control Devices, and the standards and policies.

SIZE AND SHEETING REQUIREMENTS FOR STREET NAME SIGNS

Street name signs installed on local streets and residential collectors with speed limit of 25 mph and with both streets having pavement width less than 48 feet, the lettering height may be reduced to 4 inch series “C” upper case and lower case letters mounted on 8 inch sign blanks (see Figures II). Street Name signs installed on collector and arterial streets with either street having speed limit greater than 25 mph or pavement width greater than 48 feet shall use 6 inches high series “C” upper case and lower case letters mounted on 10 inch sign blanks (see Figure III). Street name signs mounted on traffic signal mast arms shall use 8 inch series “D” upper and lower case letters. Illuminated street name signs mounted on traffic signal mast arms shall use 8 inch clearview Hwy 3-W upper and lower case letters. Private Street panels shall be installed on all 8 inch and 10 inch sign panels (see Figure IV) used at private street intersections with public streets and with private streets. All 8 inch and 10 inch sign blanks shall have the street name sheeting on both sides of blank. Dimensions of 8 inch and 10 inch sign blanks are shown on (see Figure V).

The Street Name sign will be retro reflective or illuminated to show the same shape and similar color both day and night. Street name signs will have a silver/white legend and border on a green background. Private street panels on street name signs will have a black legend on a yellow background. The Private Street panel shall be mounted on the right side of the sign. Sheeting material used with street name signs mounted on traffic signal mast arms shall be ASTM Type IX, X, or XI. Sheeting material used with street name signs installed on arterials, collectors, and local streets shall be ASTM Type III or IV.

INSTALLATION OF STREET NAME ASSEMBLIES

Street name sign assemblies consist of the street name signs, the sign mounting bracket and the double sign mounting bracket. The street name sign assemblies may be mounted on separate sign posts, on existing street light poles, on existing utility poles or existing traffic signal poles.

When installed on separate sign posts, the street name sign assemblies are to be installed on 1 ¾ inch x 1 ¾ inch x 10 foot, 14 gauge galvanized perforated square steel tub posts. A minimum of 8 feet of the square tube posts needs to extend above the adjacent roadway surface. (See Figure I)

The sign post is inserted into a 2 inch x 2 inch x 3 feet, 12 gauge galvanized perforated square tube anchor assembly a minimum of 24 inches. The anchor assembly shall be driven into the ground approximately 32 inches prior to inserting the sign post. Street name sign assemblies may be installed on existing 1 ¾ inch x 1 ¾ inch sign posts where new street name signs are required, provided the location of the existing sign post meets the criteria in these specifications.

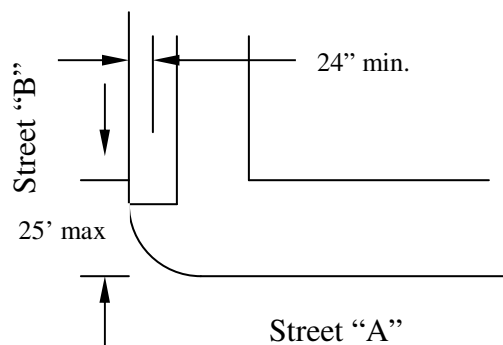
When installed on separate sign posts within the Central Business District (CBD) , the Street name sign assemblies are to be installed on 2 ¾ inch diameter, steel tube posts. The surface of the steel tube posts shall be powder coated black. A minimum of 2 feet of tube posts need to extend below the adjacent surface. The minimum mounting height of the sign shall be 8 feet above the adjacent ground surface. Sign posts shall be installed in a vertical alignment. Any post bent or otherwise damaged to the extent that the post is considered unfit for use shall be removed and replaced with an acceptable post at the contractor's expense. Friction caps for pipe posts shall be included with each sign post if necessary and may be galvanized steel or aluminum alloy.

When installed on existing street light poles, utility poles or traffic signal poles, the street name sign assembly shall use a mast arm bracket in lieu of the sign mounting bracket for a square tube sign post. The mast arm bracket must be secured to the pole with $\frac{3}{4}$ inch stainless steel banding. The stainless steel banding must have a minimum breaking strength of 2400 pounds. The stainless steel banding shall be tightened securely with standard banding tools to insure stability of the bracket and the street name sign assembly. The mast arm bracket shall be secured to the pole a minimum of 17 feet above the level of the adjacent roadway so that no part of the sign assembly is closer than 24 inch to the edge of the roadway.

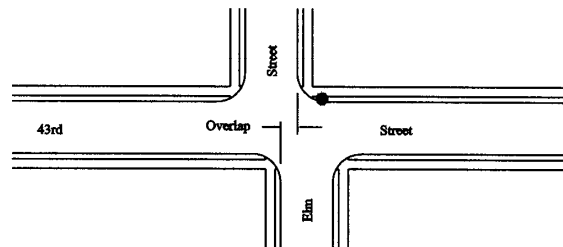
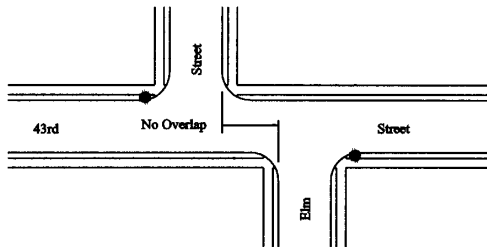
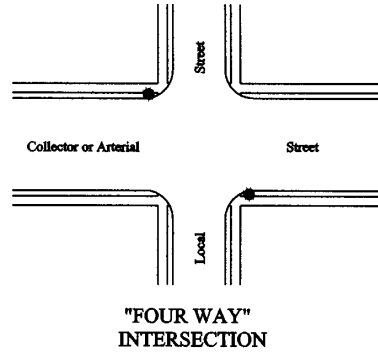
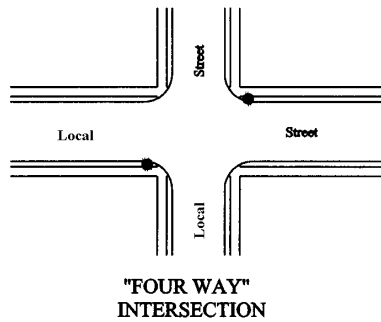
LOCATION OF STREET NAME SIGNS

The following pages contain statements and drawings relative to the required location of street name sign installations. The number of possible configurations varies greatly and, therefore, the developer is urged to study the drawings and to install the required street name signs accordingly. Any questions concerning proper placement of the signs should be directed to the Capital Projects Division, at 513-9846, Traffic Operations Center 5310 Municipal Ave., Kansas City, Missouri 64120.

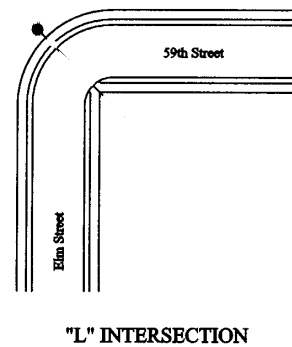
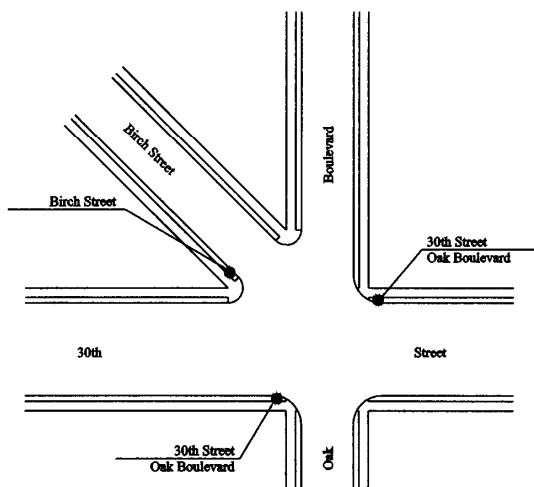
- The street name assembly may be placed near either point of curvature but, in no case, shall it be further than 25 feet from the intersecting curve line. The street name sign post shall be installed so that no portion of the street name sign panel is within 24 inches of the face of curb or roadway edge.
- For local streets the preferred location for the installation of a street name assembly is on the northeast corner of the intersection. Second preference is the southwest corner. In case where double assemblies are required, the northeast and southwest corners are to be used for installation.
- “T” intersections shall be signed with a single assembly following corner preferences as previously described.



TYPICAL STREET NAME SIGN LOCATIONS



"JOG" INTERSECTIONS



NUMBER OF SIGN ASSEMBLIES REQUIRED

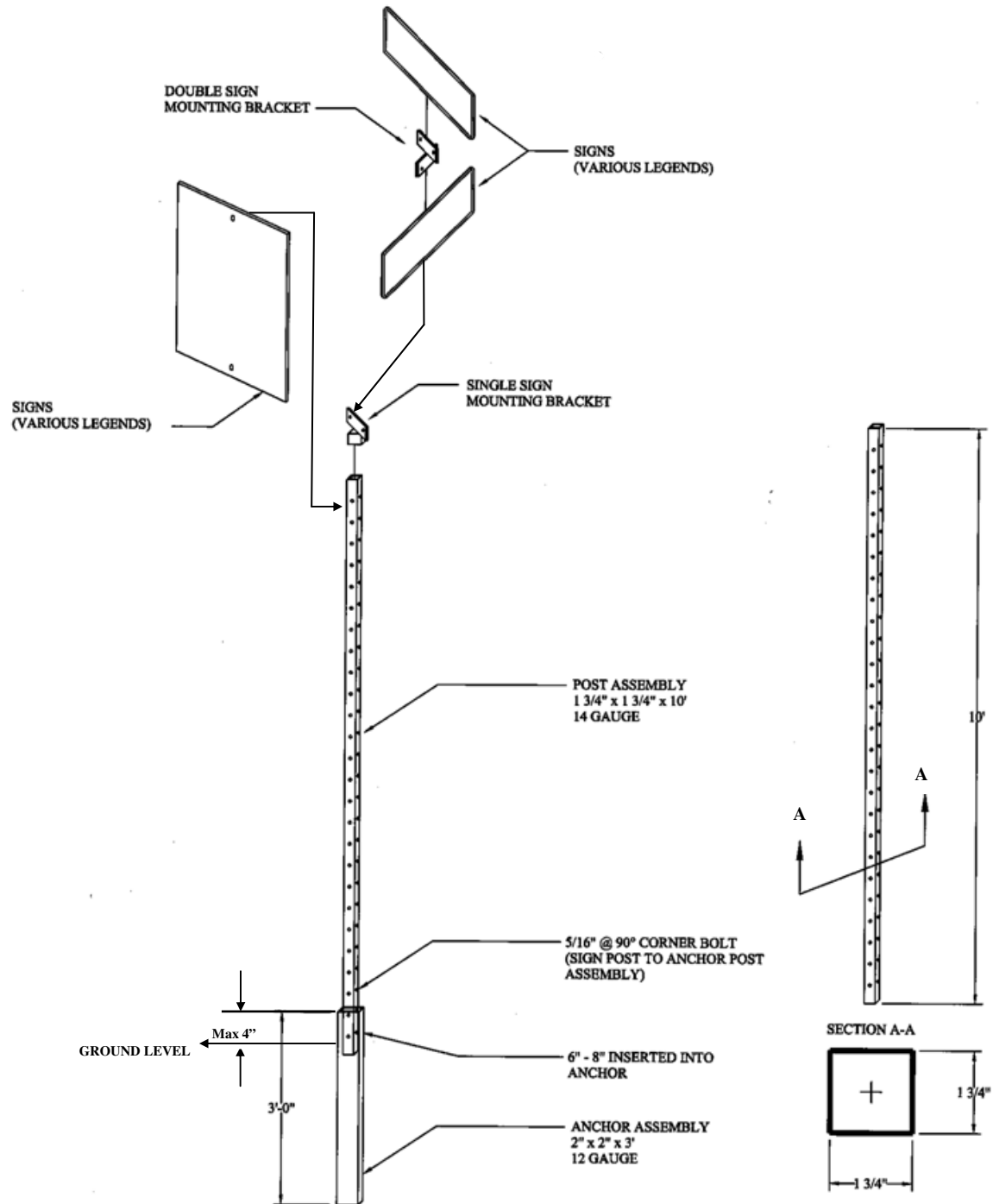
- When either of the streets forming a four-way intersection is a collector or arterial, two street name assemblies shall be installed. Street Name signs should be placed diagonally opposite corners so that they will be on the far right side of the intersection for traffic on the major street. Whenever possible, street light standards, power poles or existing pipe standards should be used to mount street name sign assemblies.
- A jog intersection with a continued name always requires two street name assemblies when the projected curb lines do not overlap.
- “L” type intersections shall be signed with a single assembly installed on the outside curb as near to the center of the radius as possible regardless of street width.
- “T” intersections shall be signed with a single assembly regardless of street width.
- Intersections with five or more legs require at least three street name assemblies installed so that all streets are identified. At intersection crossroads where the same road has two different street names for each direction of travel, both street names may be shown on the same sign along with directional arrows.
- Where street name changes occur at intersections (even though the street is physically continuous), at least two sets of street name sign assemblies must be provided with arrows pointing to the direction of the street.

LIST OF STANDARD ABBREVIATIONS FOR STREET NAME PREFIXES AND SUFFIXES

<u>WORD(S)</u>	<u>ABBREVIATIONS</u>
North, East, South, West-----	N E S W
Northeast, Northwest-----	NE NW
Southeast, Southwest-----	SE SW
Street-----	ST
Avenue-----	AVE
Terrace-----	TER
Drive-----	DR
Place-----	PL
Trafficway-----	TFWY
Freeway-----	FRWY
Expressway-----	EXPY
Boulevard-----	BLVD
Road-----	RD
Parkway-----	PKWY
Court-----	CT
Way-----	WAY
Lane-----	LN
Circle-----	CIR
Plaza-----	PLZ
First-----	ST
Second-----	ND
Third-----	RD
Fourth-----	TH

Note: See Figure II, III and IV for sizes of prefixes, suffixes and numerals.

TYPICAL STREET NAME SIGN STANDARD AND ASSEMBLY INSTALLATION

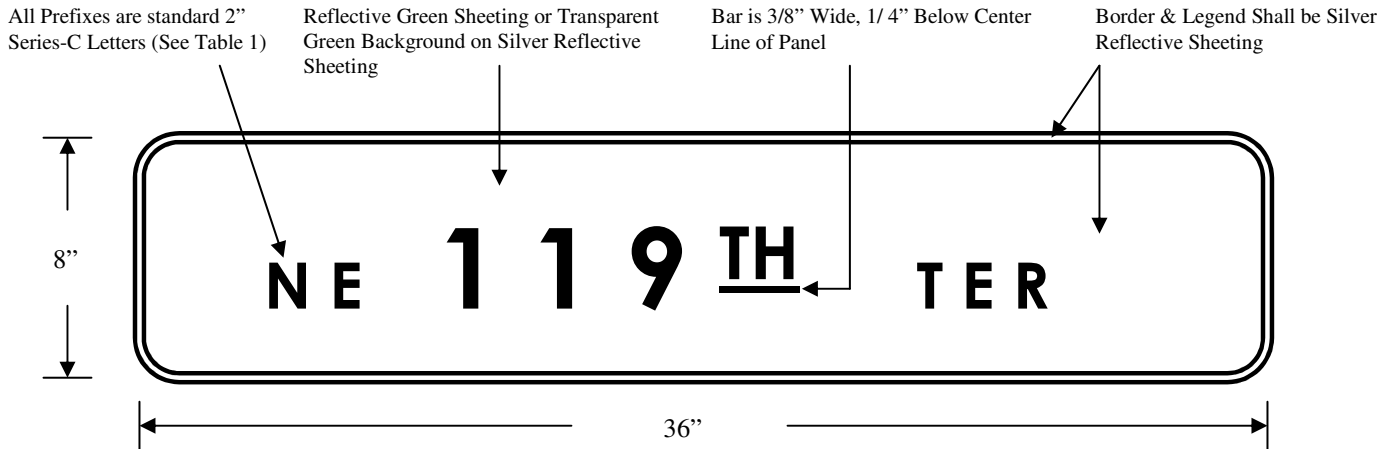


NOTES:

1. Post assembly shall be fabricated from new schedule 14 gauge steel square tubing. No rejects or factory seconds will be accepted.
2. Anchor assembly shall be fabricated from new schedule 12 gauge steel square tubing.
3. Each piece to be hot dip galvanized inside and out.

Figure I

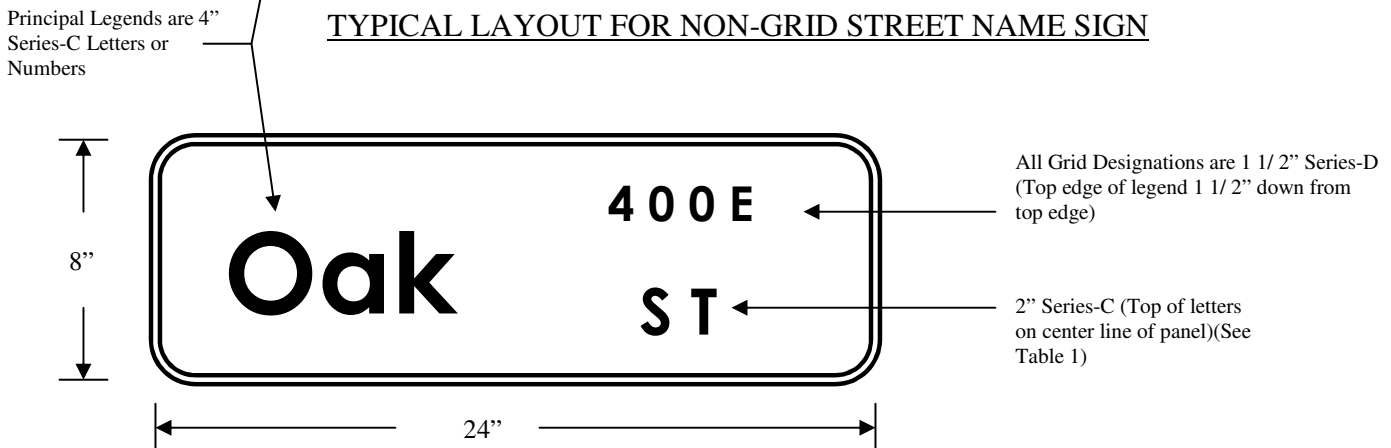
TYPICAL STREET NAME SIGN LAYOUTS (LH 4 inches)



TYPICAL LAYOUT FOR E/W NUMBERED STREET NAME SIGN



TYPICAL LAYOUT FOR NON-GRID STREET NAME SIGN

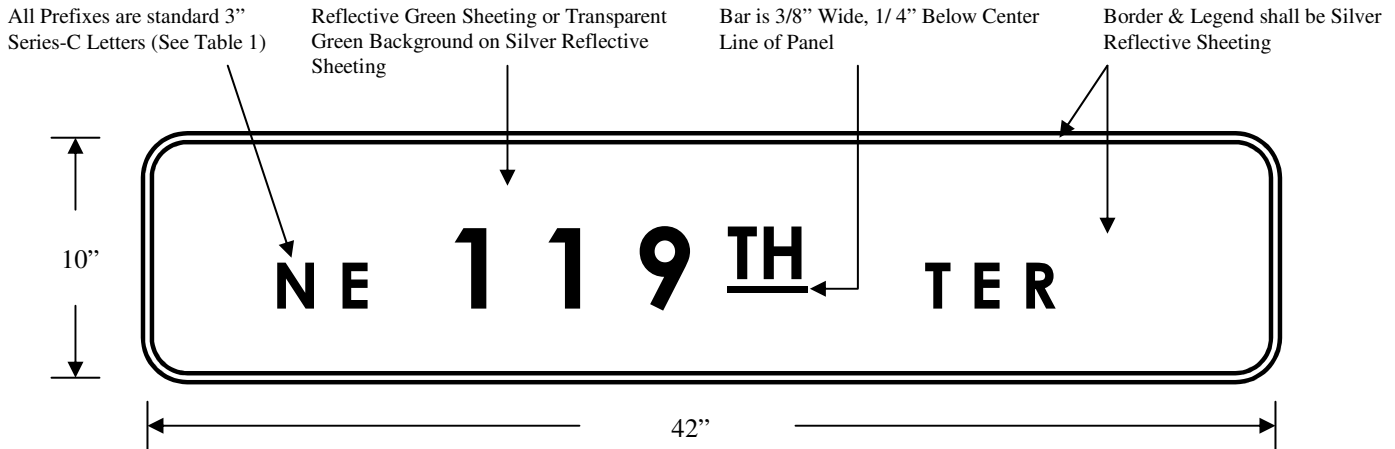


TYPICAL LAYOUT FOR N/S GRID STREET NAME SIGN

NOTES:

1. LETTER SIZE, SERIES AND SPACING PER FEDERAL HIGHWAY ADMINISTRATION STANDARD ALPHABET 2004.
2. LENGTH OF SIGN DEPENDS ON LENGTH OF TOTAL LEGEND (provide minimum 1-1/2" between legend and border at ends).

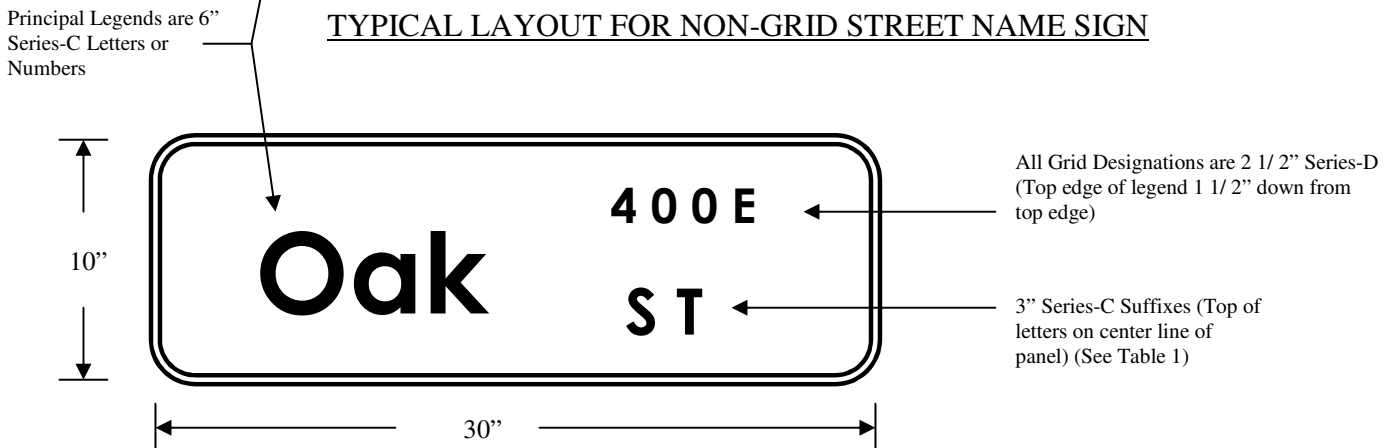
TYPICAL STREET NAME SIGN LAYOUTS (LH 6 inches)



TYPICAL LAYOUT FOR E/W NUMBERED STREET NAME SIGN



TYPICAL LAYOUT FOR NON-GRID STREET NAME SIGN

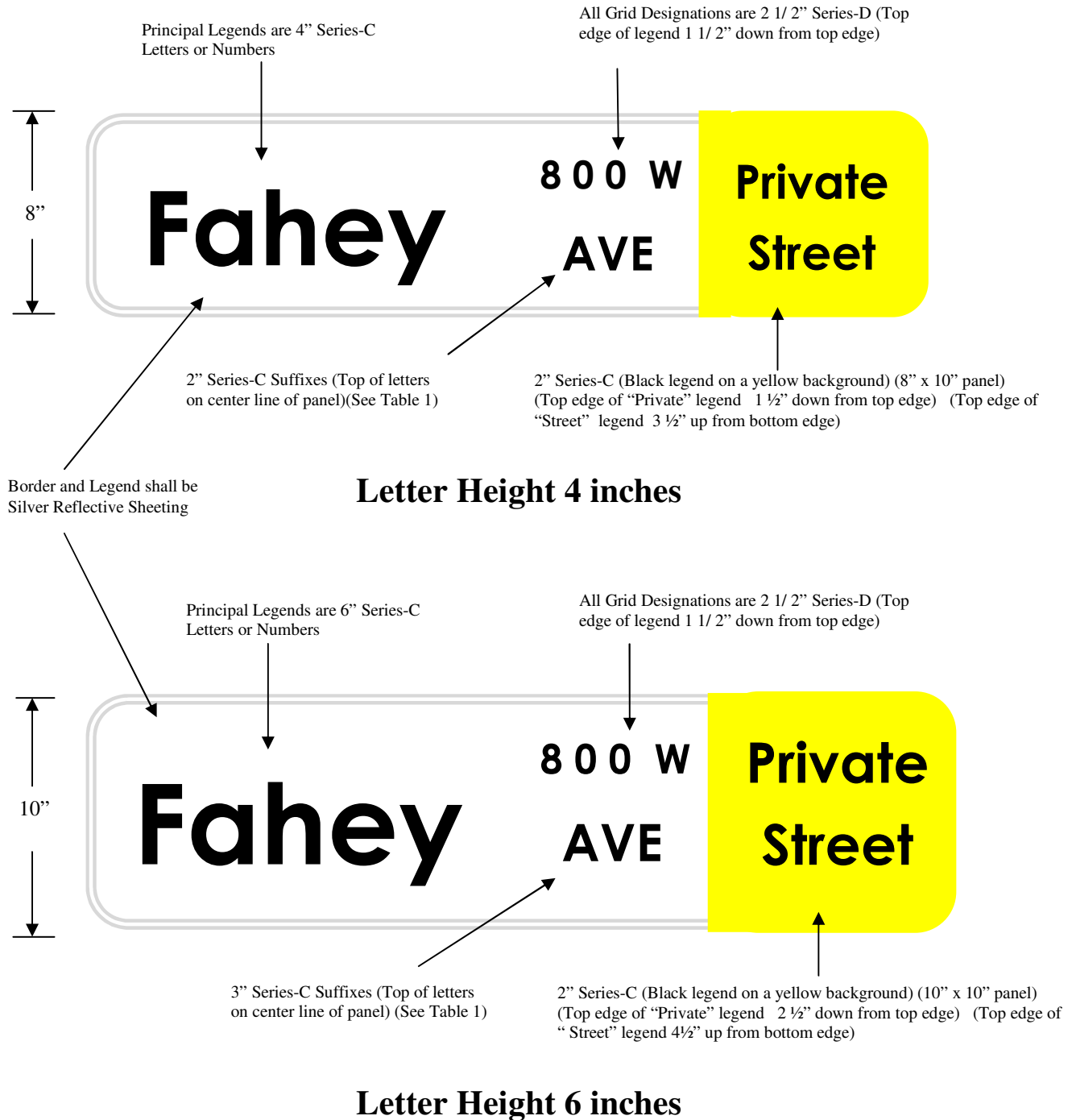


TYPICAL LAYOUT FOR N/S GRID STREET NAME SIGN

NOTES:

1. LETTER SIZE, SERIES AND SPACING PER FEDERAL HIGHWAY ADMINISTRATION STANDARD ALPHABET 2004.
2. LENGTH OF SIGN DEPENDS ON LENGTH OF TOTAL LEGEND (provide minimum 1-1/2" between legend and border at ends).

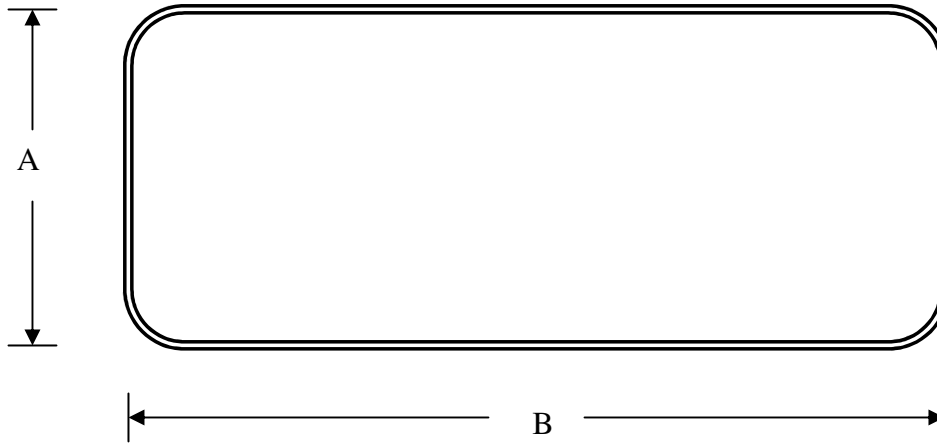
TYPICAL STREET NAME SIGN LAYOUTS (Private Street)



NOTES:

1. LETTER SIZE, SERIES AND SPACING PER FEDERAL HIGHWAY ADMINISTRATION STANDARD ALPHABET 2004.
2. LENGTH OF SIGN DEPENDS ON LENGTH OF TOTAL LEGEND (provide minimum 1-1/2" between legend and border at ends).

DIMENSIONS OF STREET NAME SIGN BLANKS



8 inch Street Name Sign Blank Dimensions:

ALUMINUM		SIZE	
Type	Gauge	A	B
6061 – T6	0.100	8"	24"
6061 – T6	0.100	8"	30"
6061 – T6	0.100	8"	36"
6061 – T6	0.100	8"	42"
6061 – T6	0.100	8"	48"

10 inch Street Name Sign Blank Dimensions:

ALUMINUM		SIZE	
Type	Gauge	A	B
6061 – T6	0.100	10"	30"
6061 – T6	0.100	10"	36"
6061 – T6	0.100	10"	42"
6061 – T6	0.100	10"	48"

NOTE:

1. Corner Radii = 1-1/2"
2. Remove all burrs.
3. Must be free of foreign materials.
4. The shipment of blanks must be accompanied by a mill certificate conforming that domestic production procedures were used in the manufacture of the blanks.
5. All signs to be degreased and etched.