

**RETROFIT INTERNALLY ILLUMINATED STREET NAME SIGN**

THE SIGN PANEL, SIDE AS REQUIRED, MUST BE A MINIMUM 0.060 INCH THICK ULTRAVIOLET PROTECTED CLEAR POLYCARBONATE (LEXAN) WITH TRANSLUCENT HIGH PERFORMANCE WIDE ANGLE PRISMATIC LENS REFLECTIVE SHEETING (3M TRANSLUCENT DIAMOND GRADE VIP 3990T OR APPROVED EQUIVALENT).

THE CLEAR LEXAN SIGN PANEL MUST BE COVERED ON ONE SIDE WITH REFLECTIVE SHEETING AND MUST BE SCREEN PRINTED BLUE ON THE SHEETING SIDE USING SHEETING MANUFACTURERS MATCH COMPONENT INK (3M 883j) SO THAT THE LEGENDS ARE WHITE WITH A BLUE BACKGROUND. THE BLUE MUST MATCH THE STANDARD CALTRANS BLUE HIGHWAY GUIDE SIGNS.

THE FINISHED SIGN MUST BE IN CONFORMANCE WITH CITY STD MVLT-411 AND HAVE A BLUE BACKGROUND WITH SPECIFIED STREET NAME IN WHITE (SILVER) LEGENDS (LETTERS) AND SPECIFIED NUMBERS IN THE FOLLOWING SIZES:

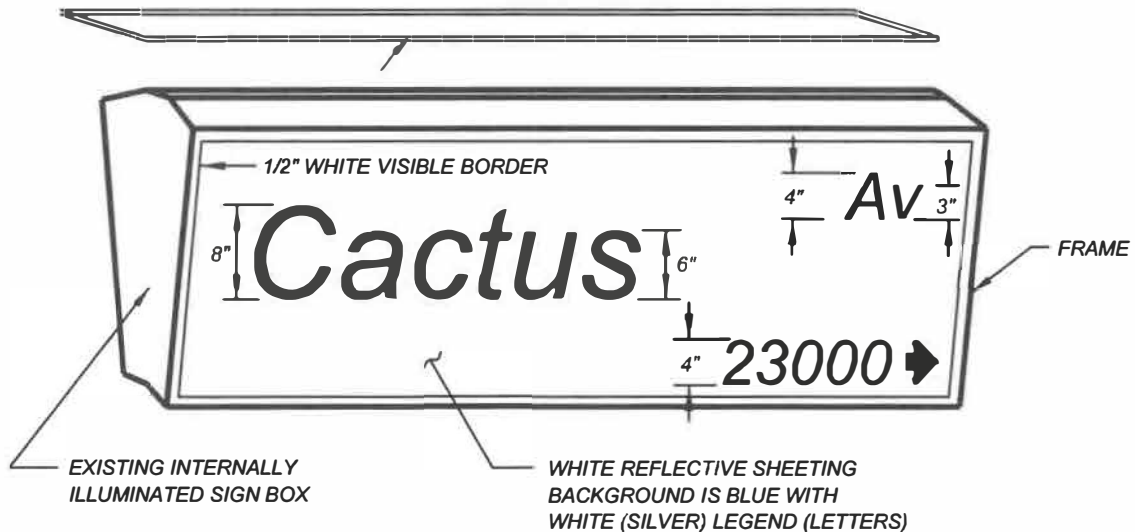
STREET NAME LETTERS ARE WHITE 8" HIGH UPPERCASE AND WHITE 6" HIGH LOWERCASE.  
 ADDRESS NUMBERS MUST BE WHITE 4" HIGH.  
 STREET SUFFIX MUST BE WHITE 4" HIGH UPPERCASE AND WHITE 3" HIGH LOWERCASE.  
 A 1/2" WHITE BORDER MUST BE VISIBLE WHEN THE SIGN PANEL IS PLACED INSIDE THE FRAME.  
 USE METRIC EQUIVALENTS AS NECESSARY. LOWERCASE LETTERS MAY BE IN PROPORTION TO UPPERCASE LETTERS.


ALL LETTERS AND NUMBERS MUST BE FHWA (FEDERAL HIGHWAY ADMINISTRATION) SERIES C AND MEET CASE REQUIREMENTS AND THE LETTER SPACING MUST MEET FHWA SPACING GUIDELINE. THE ADDRESS BLOCK NUMBER ARROW MUST BE THE STANDARD HIGHWAY TYPE AND POINT IN THE LEADING DIRECTION - INCREASING ADDRESS NUMBERS FOR SOUTH AND EAST (##000➔) AND DECREASING ADDRESS NUMBERS FOR WEST AND NORTH (◆##999).

THE FINISHED SIGN PANEL MUST INCLUDE AND BE INSERTED IN A FRAME AND TOGETHER FIT INTO AN EXISTING TYPE A INTERNALLY ILLUMINATED STREET SIGN NAME SIGN. SEE CALTRANS STANDARD PLAN ES-70.

ALL SPECIFICATIONS MUST MEET CALTRANS STANDARD PLAN ES-70 TYPE A 18" x 72" SIGN EXCEPT AS NOTED. IT IS THE SIGN FABRICATOR'S RESPONSIBILITY TO VERIFY THE DIMENSIONS OR SIZE OF THE EXISTING SIGN PANELS AND SIGN PANEL FRAME BEING REPLACED. SLIGHT VARIATIONS ARE ALLOWED AND MUST BE APPROVED BY THE CITY ENGINEER.

THE LIGHT SOURCE SHALL BE LIGHT EMITTING DIODE (LED) TECHNOLOGY, ILLUMECON LIGHTING EDGE LIT SYSTEM OR AS APPROVED BY THE CITY ENGINEER. THE POWER SUPPLY SHALL INCLUDE A CLASS 2 LED DRIVER WITH A POWER FACTOR OF AT LEAST 99 PERCENT AND TOTAL HARMONIC DISTORTION OF LESS THAN 10 PERCENT, MOUNTED EXTERNALLY FROM THE LED LAMPS, CAPABLE OF BEING MOUNTED TO AN EXISTING BALLAST TRAY. THE LED LAMPS SHALL BE MOUNTED TO A ROTATING DUAL LAMP TUBE HOUSING CONSTRUCTED OF ALUMINUM WITH RECESSED LEDS, SIZE NOT TO EXCEED 5/8" DIAMETER PER LAMP. LAMPS SHALL MOUNT IN ADAPTERS MANUFACTURED TO ACCOMMODATE SLIM LINE, HO, AND BI PIN EXISTING SOCKETS AS REQUIRED.



	RECOMMENDED: <i>Wes San</i> 2/1/2022 DIVISION MANAGER DATE	<b>CITY OF MORENO VALLEY</b> PUBLIC WORKS DEPARTMENT - TRANSPORTATION ENGINEERING DIVISION	STANDARD PLAN <b>MVLT-411C-1</b>
	APPROVED: <i>[Signature]</i> 2/4/22 PUBLIC WORKS DIRECTOR / DATE CITY ENGINEER		