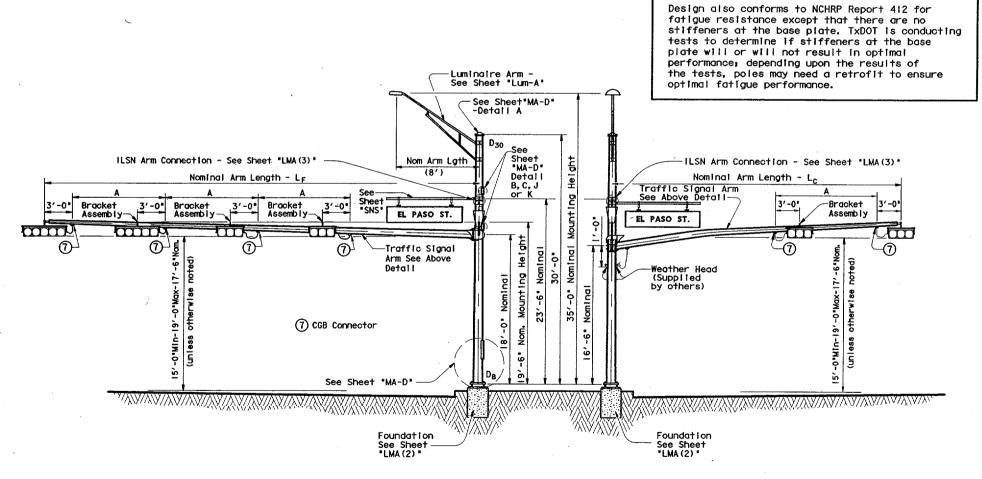


## FIXED MOUNT TRAFFIC SIGNAL ARM

# CLAMP-ON TRAFFIC SIGNAL ARM

(If required, See DMA-80 or DMA-100 Standard Sheets for Clamp-on Arm Detalls)



### **ELEVATION** (Showing fixed mount arm)

STRUCTURE ASSEMBLY

ELEVATION (Showing clamp mount arm)

		TAE	SLE OF	DIME	NSION	S "A"				
Arm Length	24'	28'	32'	36'	401	44'	50'	55′	601	65
Arm Type 🎞	10'	11'	12'	13'						
Arm Type III			10'	11'	12'	12'				
Arm Type IV							12'	12'	12'	12'

#### VIBRATION WARNING

Mast Arms of approximately 40'-0" or longer are subject to possible harmonic vertical vibrations in light wind conditions due to unusual combinations of signal numbers, weights or positions, arm-wind orientation, and arm-pole stiffness.

Arms shall be visually inspected in 5 to 20 mph wind conditions after signal head installation and, if vertical movements with a total excursion (max positive to max negative) of more than approximately 8" or achieved a combine devices or other magnetic than the devices.

are observed at arm tip, damping devices or other means shall be fitted

The necessary damping device(s) or other remedial measures shall be as recommended by the fabricator. Excessive vibrations shall not be allowed to continue for more than two days.

If damping plate is used, the size shall be 16"  $\times$  66". The plate must be installed directly above traffic light located nearest

### GENERAL NOTES

Design conforms to 1994 AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires, and Traffic Signals and Interim Specifications thereto. Design Wind Speed can be either 100 mph or 80 mph plus a 1.3 gust factor. If clamp-on traffic signal is required, designs are based on an arm included angle of 90 degrees or more. Angles of less than approximately 75 degrees will require a special design.

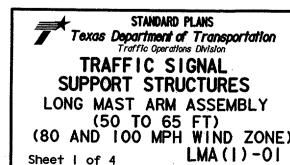
Poles are designed to support one 8'-0" luminaire arm, two 9'-0" Internally lighted street name signs and two traffic signal arms with limited length combinations. The specified luminaire load applied at the end of luminaire arm equals 75 lbs vertical dead load plus the horizontal wind load on an effective projected area of 1.5 sq ft. The specified internally lighted street name sign applied 4'-6" wind load on an effective projected area of 1.5 sq ft. The specified internally lighted street name sign applied 4'-6" from the centerline of the pole equals 85 lbs vertical dead load plus the horizontal wind load on an effective projected area of 11.5 sq ft. For 50 ft. to 65 ft.fixed-mount mast arm the specified signal load applied at the end of the traffic signal arm equals 310 lbs vertical dead load plus the horizontal wind load on an effective projected area of 52.0 sq ft. (actual area times drag coefficient). For clamp-on mast arm, the specified signal load applied at the end of the traffic signal arms equals signal load applied at the end of the traffic signal arms equals 180 lbs vertical dead load plus the horizontal wind load on an effective projected area of 32.4 sq ft. (actual area times drag cofficient).

Except as noted in sheets I thru 3 of 3, also refer to Standard Sheet "MA-D" for pole details, "LUM-A for luminaire arm and connection details, "SNS" for internally lighted street name sign details, and "TS-FD" for anchor boit and foundation details.

Fabrication shall be in accordance with the Specifications and with the details, dimensions, and weld procedures shown herein. Weld references call for preapproved weld procedures which the Fabricator must obtain prior to fabrication. Miscellaneous welds which do not call for preapproved weld procedures are nevertheless subject to rejection for poor workmanship. Material, fabrication tolerances, and shipping practices shall meet the requirements of this sheet and the Specifications.

Unless otherwise noted, all parts shall be galvanized in accordance with the Specifications.

Special designs require submission of shop drawings in accordance with the 1tem "Steel Structures".



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REVISIONS 4-20-01	STATE DISTRICT :	FEDERAL REGION	FE	SHEET			
	DAL	6	CM	CM XXXX (XXX)			
	DALLAS			CONTROL	SECTION	J06	HIGHNAY
				****	**	***	VA