Index 700-041 Span Sign Structure

Design Criteria

AASHTO LRFD Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals (LRFDLTS-1); Structures Manual (SM), Volume 3, FDOT Modifications to LRFDLTS-1; Structures Manual (SM) Introduction, I.6 References; Structures Design Guidelines (SDG); FDOT Design Manual (FDM)

Design Assumptions and Limitations

The maximum span length of Span Sign Structures is 220 feet. See the notes on *Index* 700-041, *FDM* 230, *FDM* 261, *Structures Manual (SM)*, Volume 3 and the *SDG* for additional information.

Use *Index 700-041* in conjunction with *Index 700-030* and the *Span Sign-LRFD v1.0* Mathcad 15 computer program located on the **Structures Design Programs Library** website.

Plan Content Requirements

See the *FDM*, Chapter 325.

Complete the "Span Sign Structures Data Table". Much of the data for inclusion in the table may be found in the **Span Sign-LRFD v1.0** output. Include Design Wind Speed and soils information.

Span Sign Structures Data Table:

	SPAN SIGN STRUCTURES DATA TABLE Table D													
			DIMENSIONS		PNLS			MEM	BER SIZES			SPLICE		
SIGN#	STATION	Α	В	С	D	Е	F (CHORD)	G (WEB)	H (LEFT UPRIGHT)	J (RIGHT UPRIGHT)	K (CAMBER)	SA	SB	SC
		ft	ft	ft	#	in	O. D. x Wall Thk. (in)	Angle (in)	O. D. x Wall Thk. (in)	O. D. x Wall Thk. (in)	in	Angle (in)	#	in

							SPA	AN SIG	GΝ	STRUC	ст	JRES D.	4T,	A TABL	E ((CONT.)								Table D	ate 01-01-11
	ALTERNATE SPLICE GUSSET PLATES																								
SIGN#	PA	PB	PC	PD	PE	PF	GA	GB		GC	Т	GD	П	GE		GF	П	GG	П	GH	Т	GJ	П	GK	GL
	in	in	in	in	in	#	in	in	ft	in	ft	in	ft	in	ft	in	ft	in	ft	in	ft	in	ft	in	in
									П																
									П																
											Т		П		П		П		П		Т		П		
									П		Т		П		П		Π		П		Τ		П		
											Т		П		П		П		П		Т		П		

	SPAN SIGN STRUCTURES DATA TABLE (CONT.) Table Date 0														ote 01-01-11	
	LEFT UPRIGHT CONNECTION RIGHT UPRIGHT CONNECTION															
SIGN#	LA	LB	LC	LD	LE	LF	LG	LH	RA	RB	RC	RD	RE	RF	RG	RH
	in	#	in	#	in	in	in	in	in	in						

	SPAN SIGN STRUCTURES DATA TABLE (CONT.)														Table Date	e 01-01-11					
LEFT BASE CONNECTION													RIGHT BASE CONNECTION								
SIGN#	BA	BB	BC	BD	П	BE	BF	BG	BH	BJ	CA	CB	CC	CD	Г	CE	CF	CG	СН	CJ	
	in	#	in	in	ft	in	in	in	in	in	in	#	in	in	ft	in	in	in	in	in	
					П																

	SPAN SIGN STRUCTURES DATA TABLE (CONT.)													T	able Date	07-01-14
	LEFT DRILLED SHAFT RIGHT DRILLED SHAFT															
SIGN#		DA		DB	DC	DD	DE	DF		FA		FB FC			FE	FF
	ft	in	ft	in	# / size	#	in	in	ft	in	ft	in	# / size	#	in	in

NOTES [Notes Date 7-01-13]:

1. Work these Data Tables with Index 700-041.

2. Design Wind Speed = __mph

3. Upright wall thickness given is a minimum dimension.

4. Erection is the Contractor's responsibility.

To facilitate erection, the Contractor should consider

using two vertical lift points, each located near a panel point

approximately 20 to 25% of the truss length from each end.

5. 'DC' and 'FC' shall include quantity and size of reinforcing steel.

FOUNDATION NOTES [Notes Date 7-01-12]:

Design based on Borings taken sealed by ______.

 Assumptions and Values used in design:

Assumptions and values used in design:
Soil Type
Soil Layer Thickness = ___ft.
Soil Friction Angle = ___deg.
Soil Weight = ___pcf
Design Water Table is ____ft. below surface

Payment

Item number	Item Description	Unit Measure
700-4-12C	Overhead Static Sign Structure (F&I, Span)	EA

See Standard Plans Instruction for Index 700-030 for sign panel.

See the **BOE** and **Specification 700** for additional information on payment, pay item use and compensation.