

Index 11320 Span Sign Structure (Rev. 07/15)

Design Criteria

AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals; Structures Manual Volume 3, FDOT Modifications to LTS-6; ***Structures Manual*** Introduction, I.6 References; ***Structures Design Guidelines (SDG)***.

Design Assumptions and Limitations

The maximum span length of Span Sign Structures is 220 feet. See the [PPM](#), Volume 1, Chapters 7 and 29 for additional information.

See notes on the ***Design Standard, Structures Manual***, Volume 3 and ***SDG***.

Use this ***Design Standard*** in conjunction with the [FDOT Span Overhead Sign Program](#) and Index 11300.

Plan Content Requirements

See [PPM](#) Volume 2, Chapter 23.

Complete the Span Sign Structures Data Table and include it in the plans. Much of the data for inclusion in the table may be found in the FDOT Span Overhead Sign Program output. Include Design Wind Speed and soils information. See [Introduction I.3](#) for more information regarding use of Data Tables.

SPAN SIGN STRUCTURES DATA TABLE													Table Date 01-01-11				
SIGN#	STATION	DIMENSIONS					MEMBER SIZES					SPLICE					
		A	B	C	PNLS	D	E	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		

SPAN SIGN STRUCTURES DATA TABLE (CONT.)																		Table Date 01-01-11	
SIGN#	ALTERNATE SPLICE							GUSSET PLATES											
	PA	PB	PC	PD	PE	PF	GA	GB	GC	GD	GE	GF	GG	GH	GJ	GK	GL		
	in	in	in	in	in	#	in	in	ft	in	ft	in	ft	in	ft	in	ft	in	

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

NOTES [Notes Date 7-01-13]:

1. Work these Data Tables with Index 11320.
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.

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

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

1. Design based on Borings taken sealed by _____
2. 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

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

Payment

Item number	Item description	Unit Measure
700-4-ABC	Overhead Static Sign Structure	EA
700-3-ABB	Sign Panel	EA