## **Index 11320 Span Sign Structure**

### **Design Criteria**

AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals, 5th Edition (LTS-5); Structures Manual Volume 9, FDOT Modifications to LTS-5; Structures Manual Introduction, I.6 References; Structures Design Guidelines (SDG).

### **Design Assumptions and Limitations**

The maximum span length of Span Sign Structures is 250 feet. See the *PPM*, Volume 1, Chapter 29 for additional information.

See notes on the **Design Standard**, **Structures Manual**, Volume 9 and **SDG**.

Use this **Design Standard** in conjunction with the FDOT Span Overhead Sign Program.

#### **Plan Content Requirements**

See **PPM** Volume 1, Chapters 7 and 29.

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													
	DIMENSIONS PNLS MEMBER SIZES										SPLIC	SPLICE		
SIGN#	STATION	Α	В	С	D	Ε	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
			, and the second									·		

							SPA	AN SIC	ŝΝ	STRUC	τι	JRES DA	4 <i>T</i> ,	A TABL	E (	(CONT.)								Table Da	ate 01-01-11
	ALTERNATE SPLICE GUSSET PLATES																								
SIGN#	PA	PB	PC	PD	PE	PF	GA	GB		GC	Г	GD	Г	GE	Г	GF		GG		GH	Г	GJ		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
											Г		П												
									П		Г		П						П		Г				
													П						П						
									П		Г		П		П				П		Г				
									П		Г		П		П				П						

	SPAN SIGN STRUCTURES DATA TABLE (CONT.)														Table D	ate 01-01-11		
			LEI	T UPRI	GHT CON	INECTION	1	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	#	in	in	in	in	in	in		

	STATE STATE STATE TO THE STATE TO STATE															Table Date 01-01-1				
				LEFT	BA	ASE CONN	ECTION													
SIGN#	BA	BB	BC	BD		BE	BF	BG	BH	BJ	CA	СВ	CC	CD		CE	CF	CG	СН	CJ
	in	#	in	in	ft	in	in	in	in	in	in	#	in	in	ft	in	in	in	in	in
					П							Г			Г					

	STAIN STONE STANGET ONES BATTA TABLE (CONT.)														01-01-11		
				LEFT DRIL	LED SHAFT	RIGHT DRILLED SHAFT											
SIGN#	DA			DB	DC	DD	DE	FA		FB		FC		FD	FE		
	ft	in	ft	in	# / size	in	in	ft	in	ft	in	# / size		in	in		
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- NOTES:

  1. Design Wind Speed = mph

  2. Bolts (except Anchor Bolts and Alt. Splice Bolts) are

  3. 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.

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

- FOUNDATION NOTES:

  1. Design based on Borings taken sealed by:
  2. Assumptions and Values used in design:
  50il Type
  50il Layer Thickness = ft.
  50il Friction Angle = deg.
  50il Weight = pcf
  Design Water Table is ft. below surface

NOTE - Work with Index 11320.

# **Payment**

Item number	Item description	Unit Measure
700-22-ABC	Overhead Truss Span Sign	AS