Index 11320 Span Sign Structure (Rev. 07/12)

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 — Table Date 01-01-11

SIGN#	STATION	DIMENSIONS			PNLS	MEMBER SIZES						SPLICE		
		A	B	C	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	ft	in	ft	in	ft	in	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 7-01-12]:
1. Work these Data Tables with Index 11320.
2. Design Wind Speed = ___ mph
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.

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	in	ft	in	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 01-01-11

SIGN#	LEFT DRILLED SHAFT							RIGHT DRILLED SHAFT						
	DA		DB		DC	DD	DE	FA		FB		FC	FD	FE
	ft	in	ft	in	# / size	in	in	ft	in	ft	in	# / size	in	in

Payment

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