Index 11310 Cantilever 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 Cantilever Sign Structures is 50 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 Cantilever Overhead Sign Program.

Plan Content Requirements

See PPM, Volume 1, Chapters 7 and 29.

Complete the appropriate Cantilever Sign Structures Data Table and include it in the plans. There is a choice of two tables, one for a sign structure with a flat slab foundation and the other for a sign structure with a drilled shaft foundation. Much of the data for inclusion in the table may be found in the FDOT Cantilever Overhead Sign Program output. Include Design Wind Speed and soils information. See Introduction I.3 for more information regarding use of Data Tables.

Table for use with a Spread Footing Foundation:

				CANT	ILEVE	R SIGN	STRUCTURES DATA TAB	LE	Tal	ble Date 01-01-11	
			DIME	NSIONS		PANELS		MEMBER SIZES	<u> </u>	BACKRAKE	1. Design Wind Speed = mph
SIGN NO.	STATION / OFFSET	Α		В	С	N	D (CHORD)	E (WEB)	F (UPRIGHT)	G	2. Bolts (except Anchor Bolts) are
		ft	ft	in	in	#	O. D. x Wall Thk. (in)	Angle (in)	O. D. x Wall Thk. (in)	in	
											FOUNDATION NOTES: 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 NOTE - Work with Index 11310.

											С	ANTILE	VE	ER SIGI	V 5	STRUCTL	IRES D	AT A	ГАВ	BLE	(CON	Γ.)						Table	Date 01	-01-11
								GUSS	EΤ	PLATES												TRUSS	CONNECT	TION			SP	LICE		
SIGN NO.	GA	GB		GC		GD		GE		GF		GG	Г	GH	Т	GJ	GK	TA	TB	TC	TD	TE	TF	TG	TH	TJ	SA	SB	SC	SD
	in	in	ft	in	ft	in	ft	in	ft	in	ft	in	ft	in	ft	in	in	in	#	#	in	in	in	in	in	in	Angle (in)	#	in	#
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	in	#	in	in	ft	in	in	in	in	in	ft	in	ft	in	ft	in	ft	in	ft	in	ft	in	size	size	size	size	in	# / Size
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Table for use with a Drilled Shaft Foundation:

				CANT	ILEVE	SIGN	STRUCTURES DATA TAB	LE	Ta	ble Date 01-01-11	
			DIME	NSIONS		PANELS		MEMBER SIZES		BACKRAKE	1. Design Wind Speed = mph
SIGN NO.	STATION / OFFSET	Α		В	С	N	D (CHORD)	E (WEB)	F (UPRIGHT)	G	2. Bolts (except Anchor Bolts) are
		ft	ft	in	in	#	O. D. x Wall Thk. (in)	Angle (in)	O. D. x Wall Thk. (in)	in	
											FOUNDATION NOTES: 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 NOTE - Work with Index 11310.

											С	ANTILE	/E	R SIGN	5	TRUCTL	IRES D	ATA T	ГАВ	BLE	(CON	Γ.)						Table	Date 01	-01-11
								GUSS	SET	PLATES												TRUSS	CONNECT	ION			SPL	LICE		
SIGN NO.	GA	GB		GC	Т	GD	П	GE		GF	Т	GG		GH	Т	GJ	GK	TA	TB	TC	TD	TE	TF	TG	TH	TJ	SA	SB	SC	SD
	in	in	ft	in	ft	in	ft	in	ft	in	ft	in	ft	in	ft	in	in	in	#	#	in	in	in	in	in	in	Angle (in)	#	in	#
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				B/	SE	CONNECT	ION				ANG	CHOR			FO	OTING - D	RILLED SHAF	T	
SIGN NO.	BA	BB	BC	BD	Г	BE	BF	BG	BH	BJ	ı	3 <i>K</i>		FA		FB	FC		FD
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ALTERNATE DRILLED SHAFT FOUNDATION

Payment

Item number	Item description	Unit Measure
700-23-ABC	Overhead Truss Cantilever Sign	AS