FOUNDATION DESIGN DATA

Abutments		Bents	
Load Case	Strength I	Load Case	Strength I
Axial Foundation Loads (tons/shaft, tons/pile)	Abut No. 1 Abut No.	Axial Foundation Loads (tons/shaft, tons/pile)	Bent No. Bent No.
Nominal Friction Resistance (tons/square foot)	(soil type) (soil type)	Nominal Friction Resistance (tons/square foot)	(soil type) (soil type)
Friction Resistance Factor(s)	(soil type) (soil type)	Friction Resistance Factor(s)	(soil type) (soil type)
Cumulative Factor Friction Resistance (tons/shaft, tons/pile)		Cumulative Factor Friction Resistance (tons/shaft, tons/pile)	
Nominal Bearing Resistance (tons/square foot)		Nominal Bearing Resistance (tons/square foot)	
Bearing Resistance Factor		Bearing Resistance Factor	
Factored Bearing Resistance (tons/shaft, tons/pile)		Factored Bearing Resistance (tons/shaft, tons/pile)	
Additional Notes: (design basis and depth neglected)		Additional Notes: (design basis and depth neglected)	

NOTE TO DESIGNER:

This sheet is to be used to convey the foundation design intent. It is to be filled out by the foundation designer and provides design assumptions for drilled shafts or driven piles.

For standard bridges, Foundation Load Sheets for Designer's Information are provided to assist in filling out the tables.

To complete this sheet, input the foundation design data into the table. This sheet cannot be used without modification and in all cases notes not required must be removed. This note and the phrase "Not to be used as a standard" must be removed and the sheet must be signed and sealed by a Professional Engineer.

Complete the Driven Pile Resistance Table and include when using piles. Calculate dynamic resistance in accordance with the TxDOT Geotechnical Manual - LRFD.

This sheet may be combined with a Foundation Layout. Alter the title to be Foundation Layout and Notes. Remove the standard name, FDN.

The Foundation Design Data table may be altered by adding:
1. lateral loads below axial loads, when applicable
2. additional columns as needed to communicate the design data over the length of the bridge.

At a minimum, the Additional Notes should describe the basis of design and the depth neglected for the design. For example, "Design lengths based on side resistance (skin friction) alone and disregarded to an elevation of XXX feet."

DRIVEN PILE RESISTANCE

Abutment / Bent No.	Pile Size (in)	Pile Type (Material, Shape)	Controlling Design Case	Factored Strucutural Resistance (tons/pile)	Nominal Skin Resistance in Scour Zone (tons/pile)	Nominal Driving Resistance (tons/pile)
			Strength I			
			Strength I			
			Strength I			
			Strength I			

GENERAL NOTES:

Designed according to AASHTO LRFD Bridge Design Specifications.

See Bridge Layout for header slope and foundation type, size and length.

See Common Foundation Details (FD) standard sheet for all foundation details and notes.

HL93 LOADING

Texas Department of Transportation

Bridge Division

FOUNDATION NOTES

(Not to be used as a standard)

FDN

FILE: MS-FDN-24.dgn	DN: TxDOT	CK: TxDOT	DW: TxDOT	CK: TxDOT
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REVISIONS				
	DIST	COUNTY		SHEET NO.

DATE:
FILE: