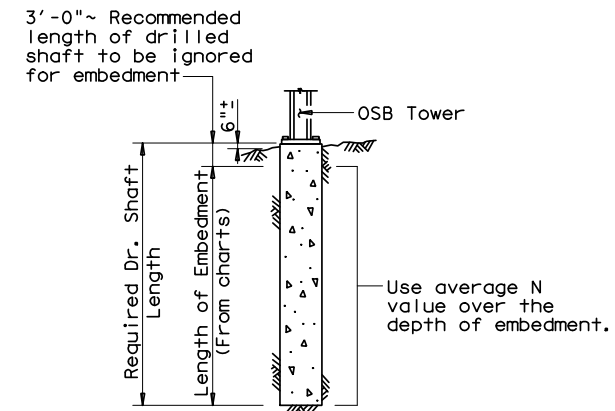
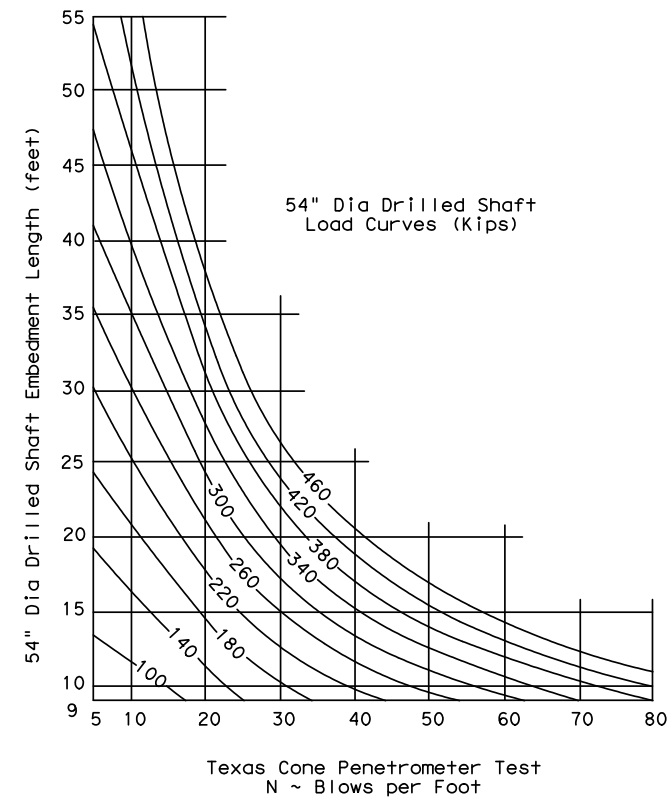
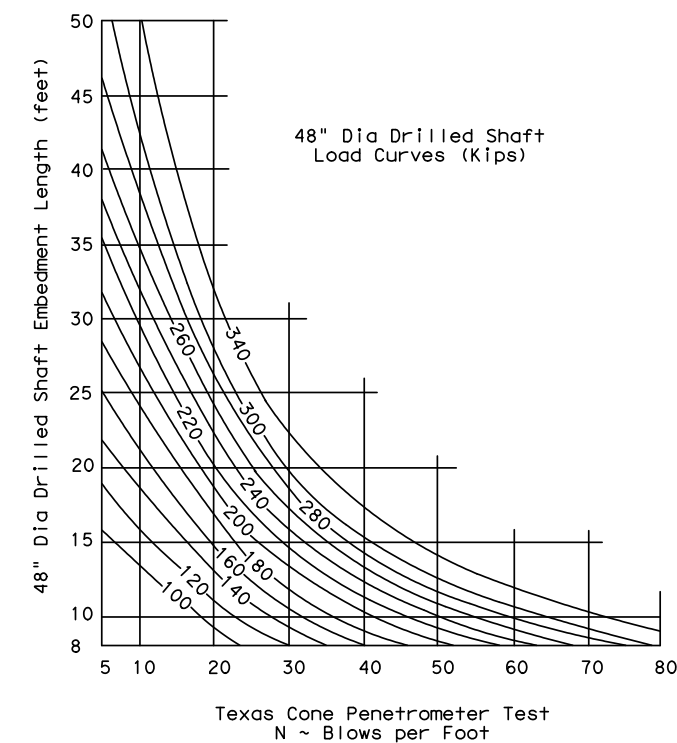
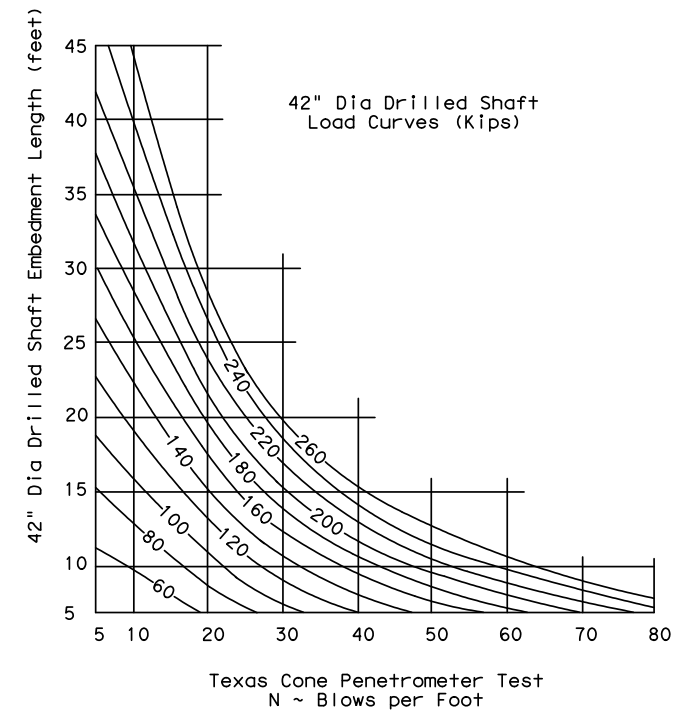
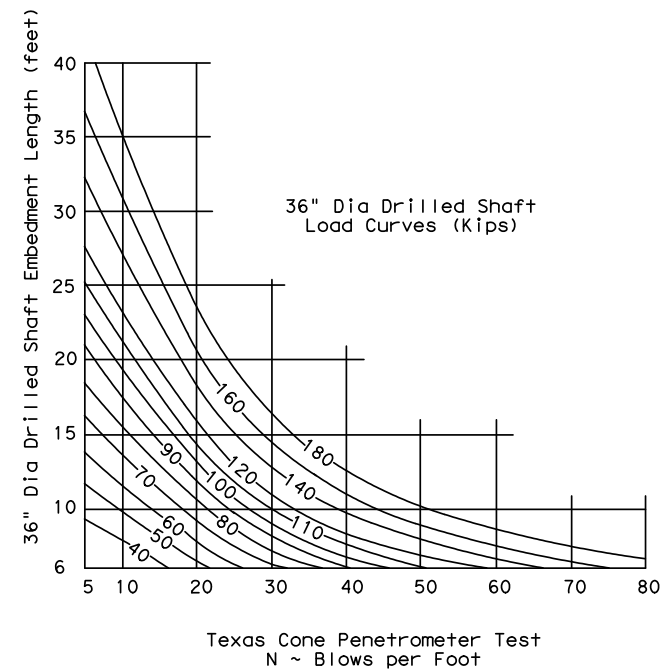
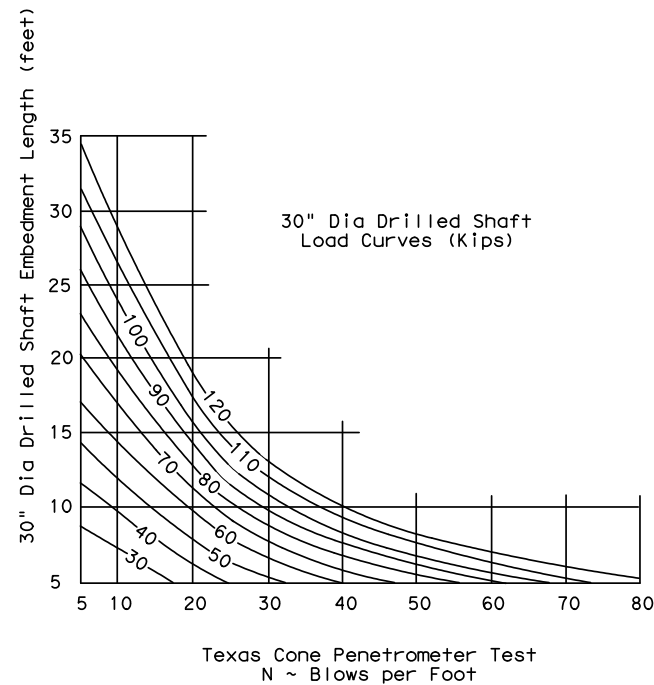
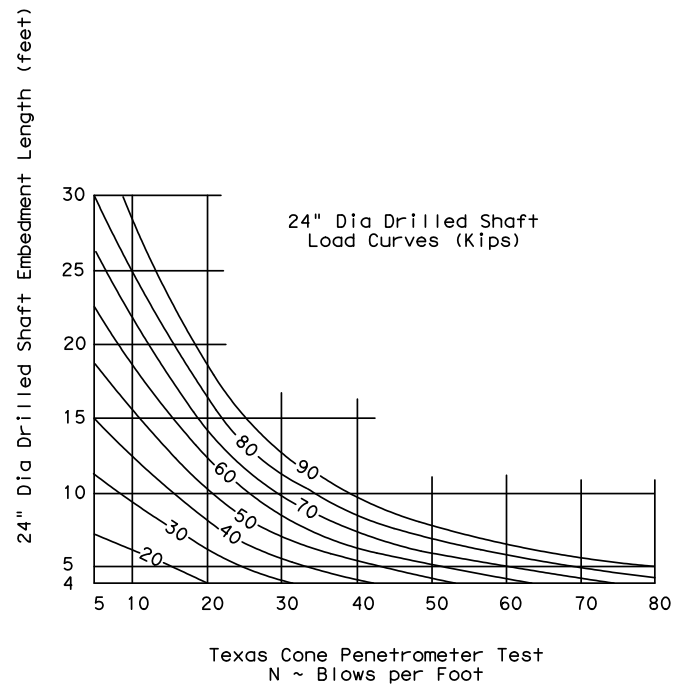


DISCLAIMER: The use of this standard is governed by the "Texas Engineering Practice Act". No warranty of any kind is made by TxDOT for any purpose whatsoever. TxDOT assumes no responsibility for the conversion of this standard to other formats or for incorrect results or damages resulting from its use.

DATE:
FILE:



PROCEDURE:

1. Determine uplift from the applicable "Overhead Sign Bridge Details" standard drawing.
2. Determine required drilled shaft diameter from standard drawing OSBT.
3. Make an initial estimate of the required embedment length.
4. From Texas Cone Penetrometer Test data determine the average N value over the length of embedment.
5. Enter chart (for the correct shaft diameter) from the bottom at the average N value.
6. Proceed vertically into chart and locate intersection with column uplift. Interpolate between curves as needed.
7. From intersection point turn 90° to left and read embedment length along vertical scale.
8. If embedment length differs significantly from estimated value return to step 4 with embedment length determined in step 7.
9. Compute the required length of drilled shaft by adding 3'-0" to the required embedment length.

GENERAL NOTES:

These charts are to be used for Simple Span Overhead Sign Bridges with two shafts per tower. Numbers shown on curved lines are uplift in kip. Dead load of concrete in drilled shafts is included in curves. Minimum embedment of drilled shafts is two diameters. Load curves shall not be extrapolated below the N value of 5 blows per foot.



FOUNDATION EMBEDMENT SELECTION CHARTS

OSB-FD

© TxDOT November 2007		DATE: TxDOT	CK: TxDOT	DATE: TxDOT	CK: TxDOT
REVISIONS		CUA#	SECT	JUR	HIGHWAY
		DIST	COUNTY	SHEET NO.	