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This manual was
developed using the
design methodology

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presented in the
Federal Highway
Administration's
"Manual for Design and
Construction
Monitoring of Soil Nail
Walls," Report No.
FHWA-SA-96-069,
dated November 1996.
This manual is
intended to be a
supplement to the
FHWA manual to help
users take advantage
of the benefits of the
SOIL SCREW®

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The helical pile system is a segmented deep foundation system with helical bearing plates welded to a central shaft. Load is transferred from the shaft to the soil through helical bearing plates. As a result of their true helical shape, the helices do not auger into the soil, but instead screw into

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it with minimal
disturbance.

Helical Pile Association

Braced Piers or Piles
(IBC Section 1808.2.5)

1) Three or more piles connected to a rigid cap... 2) Single row of piles for one and two story homes (light construction) provided center of piles are located within the width of the foundation wall. 3) Top of piers

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embedded min. of 3”
into cap/footing and at
least 4” from edges of
cap/footing.

Helical Design Theory and Applications

Helical Piles & Anchors
Design Guide For the
vast majority of
consulting engineers,
helical piles and
anchors will never be
an everyday, every
week, every month, or
even a yearly design

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and application task.

Helical Pile Foundation Design Guide: Anchors & Screw Piles

Helical Pile design requires that the piles be installed an additional distance equal to 3 times the largest helix once the soil resistance / installation torque has been achieved in order to seat the helices in load bearing strata.

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Example 1: A helical pile with multiple helices such as a 10"-12"-14" configuration.

For New Construction Helical Pile Design

CHANCE ® HELICAL ANCHOR/PILE BEARING CAPACITY The capacity of a helical anchor/pile is dependent on the strength of the soil, the projected area of the helix plate(s), and the

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depth of the helix
plate(s) below grade.
... 7-5 and 7-7 in
Section 7 of this
Technical Design
Manual for the
mechanical strengths
of helices. $Q_h = A_h$
($cN_c + q'N_q$...

CHANCE HELICAL ANCHOR/PILE BEARING CAPACITY

The CHANCE®
Foundation Solutions
Technical Design
Manual, 4th Edition is

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now available.

Featured in this new
edition are: New
products -
RS4500.337,
Drivecast™ piles, and
Rock-IT lead sections;
Building code
evaluated products and
ratings to helical
products including
foundation repair
brackets, helical piles,
new construction caps

**Chance Technical
Manual 2019 - Intech**

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Anchoring Systems

Helical pile design is governed by simple geotechnical engineering principles. Helical pile foundation design is controlled primarily by the bearing resistance on each helical plate. In some cases, the shaft resistance can also be included. Since the helical pile is in compression the pile might have to be examined in buckling.

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Helical pile design - Deep Excavation

Helical piles are proposed to support a new structure. The proposed pile layout is shown on the foundation plan along with a design working load of 30 kips per pile with a Factor of Safety (FOS) = 2. Preliminary product selection suggests that the Model HP288 helical pile is the best fit for

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this load condition with an ultimate torque-rated capacity of 71.1 kips.

Supportworks Design Examples - Helical Piles

Publication No. 1/96)
on pile design and
construction with a
Hong Kong
perspective. In recent
years, there has been a
growing emphasis on
the use of rational
design methods in

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foundation

engineering. Many high-quality instrumented pile loading tests were conducted,

FOUNDATION DESIGN AND CONSTRUCTION

Helical Anchors Inc is a manufacturer for Helical Pile, Helical Piers, and Helical Anchors. With our superior patented Inertia Welding Technology, we

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provide the strongest
piles in the industry.
We have more than 25
years of experience in
Soil Stabilization and
Earth Foundation
Repair Systems.

Helical Anchors|Helical Piles|Helical Piers|Manufacturing

8.1 Centerline of
helical pile/anchor shall
not be more than 75
mm (3 inches) from
indicated plan location.

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8.2 Helical pile/anchor plumbness shall be within 2° of design alignment 8.3 Top elevation of helical pile/anchor shall be within ±50mm (2 inches) of the design vertical elevation. 9 MEASUREMENT AND PAYMENT

31 66 00 Helical Pile/Anchor Deep Foundation MODEL

...

Section 1 provides a

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description of the evolution of helical pile technology, applications, advantages and limitations, prevailing codes and governing design methodologies. Section 2 includes a schematic of pile elements and a glossary of terms. Section 3 describes helical pile components and installation methods.

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**DFI Publishes Helical
Pile Foundation
Design Guide**

1. NYSDOT

Geotechnical Design
Manual (GDM) 2.

NYSDOT Bridge Manual

3. NYSDOT LRFD

Bridge Design

Specifications (AASHTO
with NYSDOT revisions)

The most current

versions of the above
referenced manuals

including all interims,
design memoranda, or

Engineering Issuances

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(EI's, EB's, or ED's)
modifying the manuals
shall be used.

CHAPTER 11

Helical Pile Foundation
Design Guide, First
Edition, 2019 DFIDFI
Helical Piles and
Tiebacks Committee,
Gary L. Seider, ...
Augered Cast-In-Place
Piles Manual, Third
Edition, 2016 ... The
International
Association of
Foundation Drilling and

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the Technical Activities
Committee of DFI, is
intended for general
use primarily in the
private market ...

Deep Foundations Institute (DFI) - Publications

The process of
installing helical piles
leaves most of the
ground undisturbed
(Figure 12). There's no
spoil dirt to lose on the
site or haul away. A
helical pile in poor soil

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might extend down 20 feet; think about a traditional excavation that deep - if it were even possible to do - and how much dirt would be brought up.

Helical Pile Deck Foundations | Professional Deck Builder

HeliCAP® Helical
Capacity Design
Software Version 3.0 is
interactive software
that helps you solve

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your tension and compression project requirements with helical anchors. It performs powerful calculations on your site soil parameters to help you build better and faster. Use it for designing foundations, tiebacks, soil nails, heavy guyed loads.

**Helicap Software:
CHANCE Civil
Engineering Design
Software ...**

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CHANCE Anchors and Helical Piles are an extendable deep foundation system used worldwide to secure residential and commercial buildings, tower foundations, heavy equipment foundations and many other projects requiring deep foundations. Read More. Instant Foundations.

CHANCE Helical Piles
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Anchors | Chance...**

Please visit Dr. Cerato's
blog to get the latest
news on her ongoing
shake table testing of
helical piles.

9/16/2014: The
committee has
published a Model
Specification for Helical
Anchor Foundations
Tension Applications.

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