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12 Steps of Construction.

Construction can be summarized into 12 Stages.

Clearing of the Ground.

Site Layout and Staking.

Compacting & Laying of PCC.

Foundation Rebar and Column Starter Bars.

Setting Up Perimeter Blocks.

Tie Beam Reinforcement, Grade Slab, and Concreting

Beam and Slab Works.

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Intro

What is Soil Conditioning

Why Does Soil Move

What Can I Do

Piers

Other Methods

Water Injection

Why Most Builders Dont Do This

Chemical vs Water Injection

Permanent Solution

Toxicity

Geotech

Price

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Best Practices

Footings: 2500 PSI Concrete

Foundation Walls: 3000 PSI

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Types of Soil

Types of Soils

Beer Beam Foundation

Peat Soil

Sand Soil

Desert Soils

Isolated Footing

Isolated Rcc Pad Footings

Rock Soil

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Introduction

Gravity retaining walls

Soil reinforcement

Design considerations

Active loading case

Detached soil wedge

Increase friction angle

Compacting

Drainage

Results

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Introduction

Demonstrating bearing capacity

Explanation of the shear failure mechanism

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Intro
Differential Movement
Bearing Failure
Structural Loads
The Ground
Erosion
Cost
Pier Beam Foundations
Strip Footing
Crawl Space
Frost heaving
Deep foundations
Driven piles
Hammer piles
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Introduction
Basics
Field bearing tests
Transcona failure
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