

Fall 2018 Las Vegas

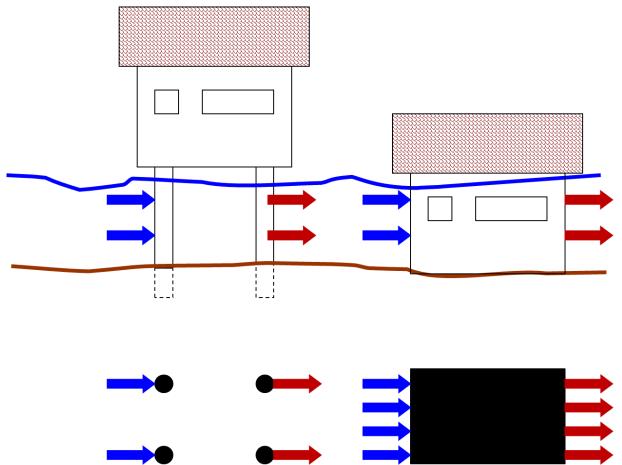
Constructability of Elevating Concrete Slabs on Grade

Dr. Tony Lamanna, DrTony@asu.edu



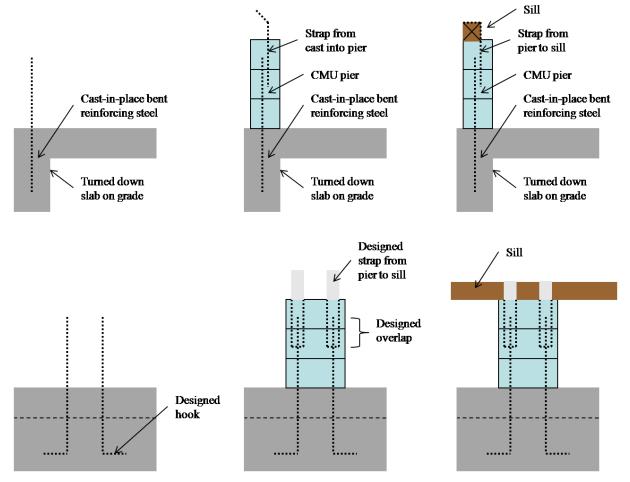


Lateral forces from moving floodwater

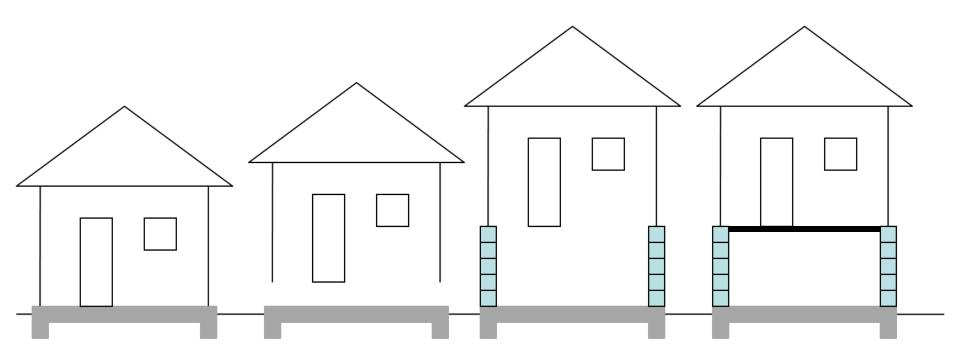




Typical foundation connections













0



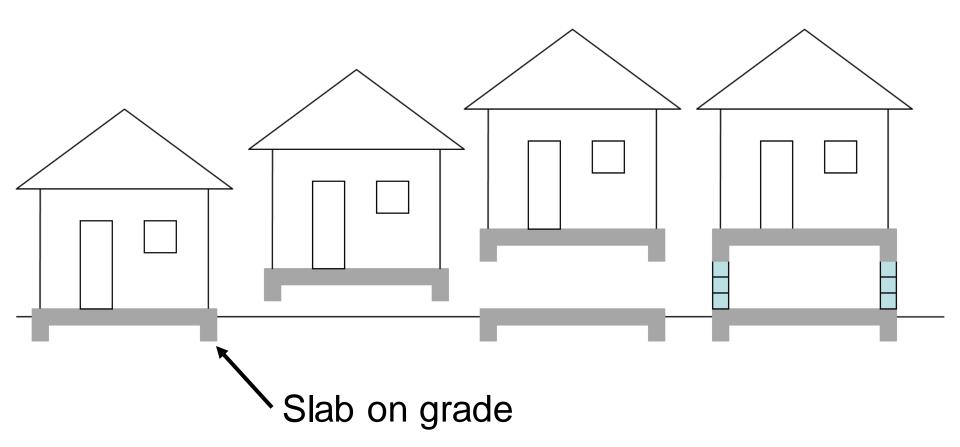








Slab elevation





Slab elevation

11111111111





Slab elevation - FEMA

ELEVATING YOUR HOME 5

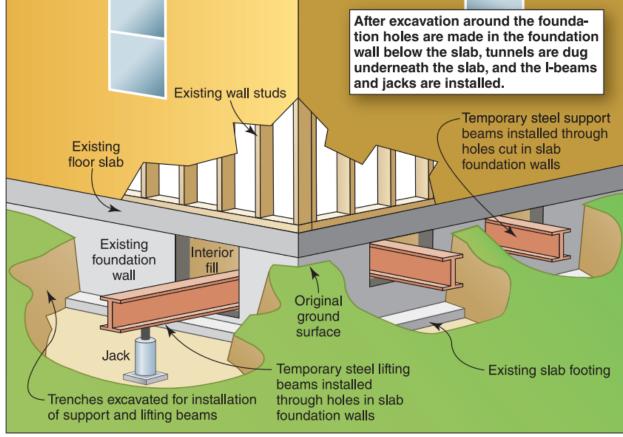


Figure 5-9a through 5-9d. Elevating a slab-on-grade home with the slab attached.

FEMA, Homeowener's Guide to Retrofitting, p. 5-13



Slab elevation – safety issues



http://media.nola.com/hurricane_katrina/photo/house-collapsejpg-594f2450adfabc69.jpg



Slab elevation – unsupported spans



Slab elevation – unsupported spans



Slab elevation – bearing areas



Slab elevation – prestressing tendons





Slab elevation – hydraulic jack placement/slippage



Slab elevation – "crack repair"



Slab elevation – "crack repair" anchor stick-out

Inches

Building Knowledge. Delivering Results.

CONSTRUCTION TECHNOLOGY LABORATORIES ENGINEERS & CONSTRUCTION TECHNOLOGY CONSULTAI



Questions?

Los II files

Del E. Webb School of Construction