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three-dimensional finite element method. 1 School . barrette piles (size 1 m x 2 m to 1.5 m x 3 m) constructed between structural engineers and geotechnical engineers,. **Residential Structural Design Guide: 2000 Edition - ARES Consulting** Structural, Fire Protection and Building Envelope. Professional Engineering Services for 5- and 6-Storey .. It is anticipated that as experience is gained in the design and construction of mid-rise building . Show bracing details for high gable walls and. 10. Show wood to concrete foundation details.