STRUCTURAL & GEOTECHNICAL REQUIREMENTS FOR SINGLE FAMILY DWELLINGS IN THE EAGLE FORD SHALE FORMATION

All foundations for Single Family dwellings built in the Eagle Ford Shale areas, as shown on exhibit A, shall be designed and constructed in accordance with these parameters:

1. A geotechnical investigation must be done under the direct supervision of a Registered Professional Engineer in the State of Texas with a specialty in Geotechnical Engineering.

2. The soils report must include appropriate design recommendations and recommendations for foundation movement vertically as well as overall tilt. Parameters must be provided to allow proper structural design of the foundation.

3. One soil test boring shall be taken at the specific location on the lot or tract.

4. The foundation shall be designed by a Registered Professional Engineer with a specialty in Structural Engineering. The foundation shall be designed to the following standards:

    a. Soils with potential vertical rise (PVRs) less than 1". Turn down slabs with no sub-grade treatment are permissible.

    b. Soils with PVRs between 1" and 2" stiffened foundation slabs, no sub-grade preparation required.

    c. Soils with PVRs between 2" and 4" stiffened slabs permitted, but require appropriate sub-grade preparation, such as select fill, water or lime injection.

    d. Soils with PVRs greater than 4". Structurally suspended beam and slab foundations supported on drilled piers bearing on suitable material below the expansive material zone.

    e. The Potential Rise (PVR) shall be calculated per Texas Department of Transportation Method, Tex 124-E.

5. Consideration must be taken into account regarding tilt on sites where this is a factor.

6. The Structural Engineer of Record shall inspect the foundation prior to the pouring of concrete.

7. The Structural Engineer shall submit a written report of the foundation inspection to the Building Inspection Department.