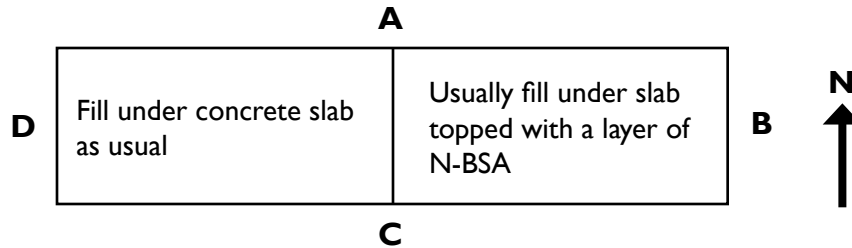


Durability Studies Concrete Slab Structure: Termite Procedures

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(A) Framing

West Half

Untreated studs and ACQ-treated sill plates

East Half

Untreated studs and borate-treated sill plates. The lower 2ft of the studs and sill plates will be sprayed with BoraCare per label instructions.

(A) Concrete perimeter

A trench 18 inches wide and 1ft deep will be dug adjacent to the concrete and a perforated drain pipe placed in the bottom. The pipe will be covered with washed gravel.

West Half

The washed gravel will fill the trench to the surface.

East Half

The trench will be filled to the surface with a non-biocidal soil amendment (N-BSA) chosen from those tested in Shane Kitchens' PhD research. Vegetation control in the trench area will be accomplished by periodic applications of the herbicides.

(A) Landscaping

West Half

Commercially-available mulch (CAM) will surround plantings and commercially-available bait station (CABS) will be placed according to manufacturer specifications.

East Half

CAM amended with termite repellent/ termiticidal plant material chosen from those used in Shane Kitchens' PhD research. CABS fitted with battery-operated motors operating at a termite-attracting frequency as determined by Kevin Ragon's PhD research will be placed at distances equal to those on the west half.

(B) Framing

North Half

Commercially – available borate- treated studs and sill plates.

South Half

Non-treated studs and ACQ - treated sill plates.

(B) Concrete Perimeter

A drainage trench will be dug as on wall (A)

North Half

The trench will be filled to the surface with washed gravel.

South Half

The trench will be filled to the top of the drain pipe with washed gravel and from there to the surface with N-BSA.

(B) Landscaping

CAM amended with N-BSA will be used on the entire length of the wall.

North Half

Additional N-BSA will be added to the CAM annually.

South Half

N-BSA will not be added to the CAM annually. No CABS will be used on this wall.

(C) Framing

Commercially – available borate- treated studs and sill plates will be used on the entire wall.

(C) Concrete Perimeter

Usual practice will be followed.

(C) Landscaping

None - walkway

(D) Framing

None - garage

(D) Concrete Perimeter

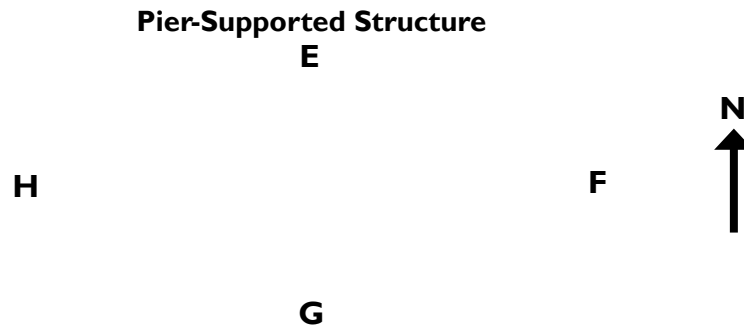
Usual practice will be followed.

(D) Landscaping

None - driveway

Evaluation

1. The perimeter of the concrete slab will be inspected annually for signs of termite activity (e.g., shelter tubes).
2. Mulch will be examined each spring for viable termites.



Pier footings

Re-enforced concrete will be used. Depth of concrete, depth of the concrete top from the soil surface and the type of re-enforcement will determined by our Civil Engineering representative, wood piers will be placed on the solidified concrete and the holes backfilled to the surface with washed pea gravel.

(E) Pier Treatment

West Half

The lower end and the below – grade portions of each pier will be coated with a copper – borate paste (CBP) and then fitted with a plastic trash bag perforated at the bottom.

East Half

In addition to the CBP as on the West Half, downward- sloping holes will be drilled b- inches above grade on two opposing faces to accept copper borate rods (CBR).

(F) Pier Treatment

North Half

No treatment

South Half

The below – grade portion of each pier will be fitted with a commercially – available plastic sleeve containing a copper – borate impregnated pad in the bottom.

(F) Drainage Trench

An 18-inch wide and 1ft deep trench will be dug adjacent to the outer edge of the piers and a perforated drainage pip placed in the bottom. The trench will be filled to the top of the drain pip with washed gravel.

North Half

The trench will be filled to surface with washed gravel.

South Half

The trench will be filled to surface with N-BSA.

(F) Landscaping

North Half

Planting outside of the trench area will be surrounded with CAM.

South Half

Planting outside of the trenched area will be surrounded with CAM amended N-BSA.

(G) Pier Treatment

West Half

The bottom and below-grade portions of each pier will be coated with a copper-borate paste (CBP) and then fitted with a plastic trash bag perforated at the bottom.

East Half

The below – grade portion of each pier will be fitted with a commercially – available plastic sleeve containing a copper – borate impregnated pad in the bottom.

(G) Drainage Trench

Same as on side (F)

West Half

Fill the trench to the surface with N-BSA.

East Half

Fill the trench to the surface with washed gravel.

(G) Landscaping

Plantings will be surrounded by CAM amended with N-BSA.

West Half

Additional N-BSA will be added annually following examination for living termites.

East Half

No-additional N-BSA will be added annually.

(H) Pier Treatment

North Half

The bottom and below – grade portions will be fitted with a commercially available plastic sleeve that does not contain supplemental preservative.

South Half

The bottom and below – grade portion of each pier will be fitted with a commercially – available plastic sleeve containing a copper – borate impregnated pad in the bottom.

(H) Drainage Trench

Same as on side (F). The entire trench will be filled to the surface with washed gravel.

(H) Landscaping

Only CAM will be used around the plantings.