CLAIMS

What is claimed is:

1. A precast pile assembly formed from at least a first precast pile and a second precast pile comprising, in combination:

a first end plate attached to the first precast pile and a first collar plate, wherein the first end plate defines four openings;

a second end plate attached to the second precast pile and a second collar plate;

a corresponding projection which extends from the first precast pile through each corresponding opening, wherein the second end plate defines a hole adapted to receive one of the corresponding projections from the first end plate;

wherein each projection defines a corresponding channel extending through the corresponding projection; and

four bolts and four unitary socket modules, wherein each unitary socket module defines a bolt passageway and a projection passageway, with the projection passageway adapted to receive one of the corresponding projections, and the bolt passageway is adapted to receive a corresponding bolt;

wherein:

the second end plate defines four holes each adapted to receive one of the corresponding projections from the first end plate, such that each corresponding

projection extends through the corresponding opening of the first end plate, and the corresponding hole of the second end plate;

the corresponding bolt extends through the channel of the corresponding projection such that the corresponding bolt cooperates with the corresponding projection to hold the corresponding projection with respect to the bolt; and

wherein each bolt is threaded, and each corresponding projection passageway is threaded such that each bolt is tightened into the corresponding projection passageway to secure each bolt to the corresponding projection;

each unitary socket module further defines a pocket defined by a ledge, such that a bolt head of the bolt abuts against the ledge of the corresponding unitary socket module to resist further movement of the bolt toward the projection passageway; and

wherein each unitary socket module is positioned at 90 degrees with respect to an adjacent unitary socket module, and the unitary socket modules on opposite sides are positioned offset and rotated 180 degrees with respect to each other.

2. The precast pile assembly of claim 1 wherein the projection passageway is perpendicular to the bolt passageway.

3. The precast pile assembly of claim 1 wherein the second collar plate has four side walls, and each side wall defines a side opening, with each side wall opening adapted to receive one of the bolts.

4. The precast pile assembly of claim 1 wherein the bolt passageway extends from an edge of the unitary socket module, through the projection passageway and beyond the projection passageway.

5. The precast pile assembly of claim 1 wherein the first precast pile is locked to the second precast pile by the bolt engaging the corresponding projection in the unitary socket module.

6. The precast pile assembly of claim 5 wherein the opening of the first end plate aligns with the corresponding hole of the second end plate.

7. The precast pile assembly of claim 5 wherein the opening of the first end plate aligns with both the hole of the second end plate and the projection passageway of the unitary socket module, and the second collar plate side opening aligns with the bolt passageway of the unitary socket module.