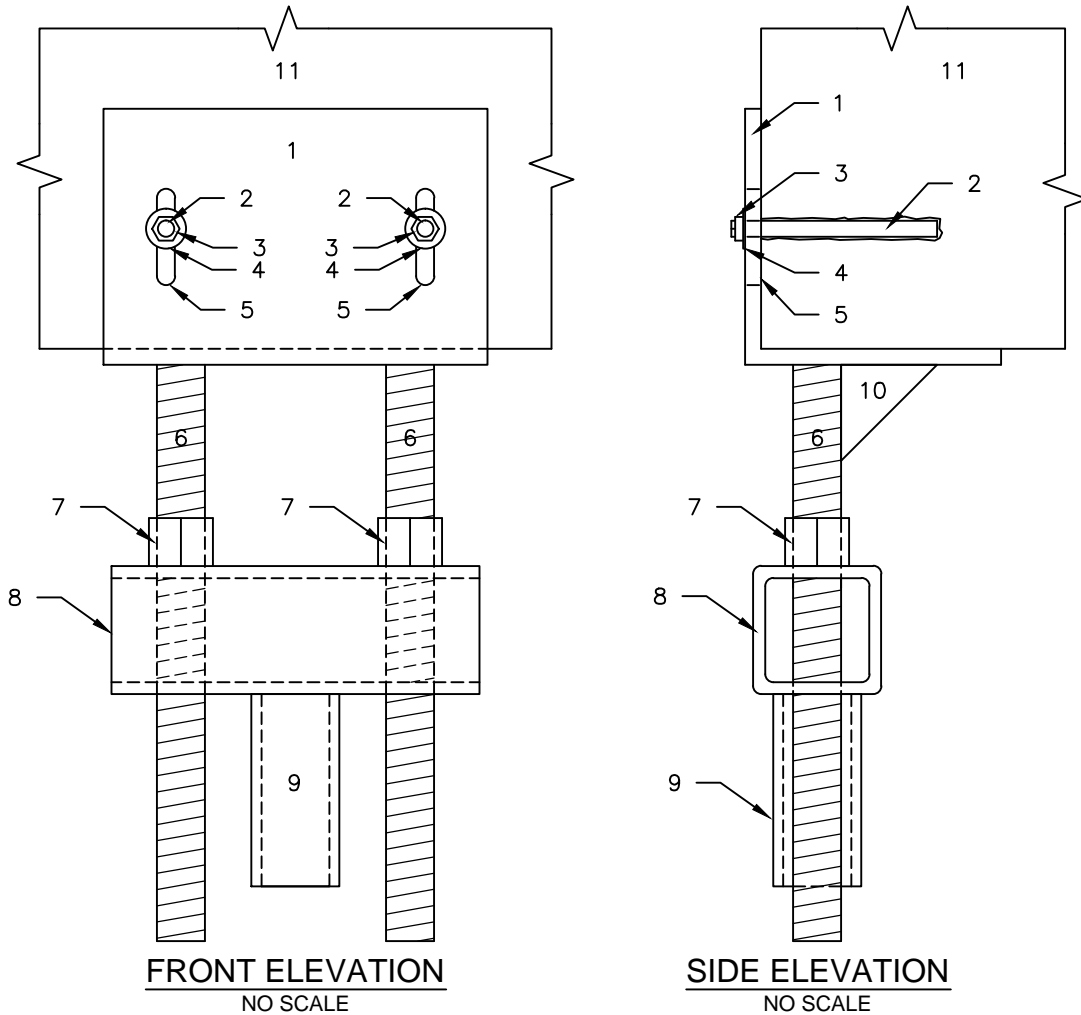


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UP-150

UNDERPINNING BRACKET



FRONT ELEVATION
NO SCALE

SIDE ELEVATION
NO SCALE

1. STRUCTURAL ANGLE: 8" X 8" X $\frac{1}{2}$ ", 12" LONG
2. CONCRETE EXPANSION BOLT: $\frac{1}{2}$ " X 5- $\frac{1}{2}$ " REDHEAD OR EQ.
3. NUT ON EXPANSION BOLT
4. WASHER ON EXPANSION BOLT
5. SLOTTED HOLE: 1- $\frac{1}{4}$ " X $\frac{9}{16}$ "
6. THREAD ROD: 1- $\frac{1}{2}$ " WILLIAMS GR 75, 18" LONG
7. NUT: 1- $\frac{1}{2}$ "
8. STRUCTURAL TUBE: 4" X 4" X $\frac{3}{8}$ ", 11.5" LONG
9. PIPE SLEEVE: CARBON MECHANICAL TUBING:
2.75" OD, 2.125" ID, 0.313" WALL TH., 6" LONG
10. GUSSET PLATE: 3" X 3" X $\frac{1}{2}$ "
11. CONCRETE FOOTING OR GRADE BEAM

NOTE: ALL ANGLE STEEL, PLATE STEEL, & STRUCTURAL TUBING IS A36.
ALL PIPE IS 35 KSI MIN YIELD.
ULTIMATE CAPACITY 200,000 LBS

U.S. PATENT NO. 5,800,094

HELI-PILE®



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SPECIFICATION
SHEET

UP-150 UNDERPINNING
BRACKET

DRAWN BY:

FR

ENGINEER:

JSP

UP-150.DWG

SHEET 1 OF 1

DATE:

05/11/12

REVISION:

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