

Model 350 Lateral Restraint System when used with the HA150 or HA175 Helical Tieback System

Collar:

Ø2.75" x 0.313" wall x 4.00" long DOM tube (HA150)
 Ø3.00" x 0.313" wall x 5.00" long DOM tube (HA175)
 ASTM A513 Type 5 Grade 1026
 Yield strength = 70 ksi (min.)

Saddle Bracket:

Weldment manufactured from $\frac{3}{8}$ " ASTM A36 plates
 and HSS 2.00" x 2.00" x 0.25" x 3.50" long
 ASTM A500 Grade C tubes
 Yield Strength = 50 ksi (min.)

Adapter Beam:

Weldment manufactured from $\frac{3}{8}$ " and $\frac{1}{2}$ " ASTM A36 plates
 with (2) - Ø $\frac{5}{8}$ " SAE J995 Grade 5 weld nuts

Hardware:

Ø $\frac{3}{4}$ " mechanically galvanized Grade 8 bolt and nut (HA150)
 (2) - Ø $\frac{3}{4}$ " mechanically galvanized Grade 8 bolts and nuts (HA175)
 (2) - Ø $\frac{5}{8}$ " x 24.00" long zinc plated threaded rods
 ASTM A193 Grade B7, tensile strength = 125 ksi (min.)
 (2) - Ø $\frac{5}{8}$ "-thread, Grade 5, zinc plated standard hex nuts

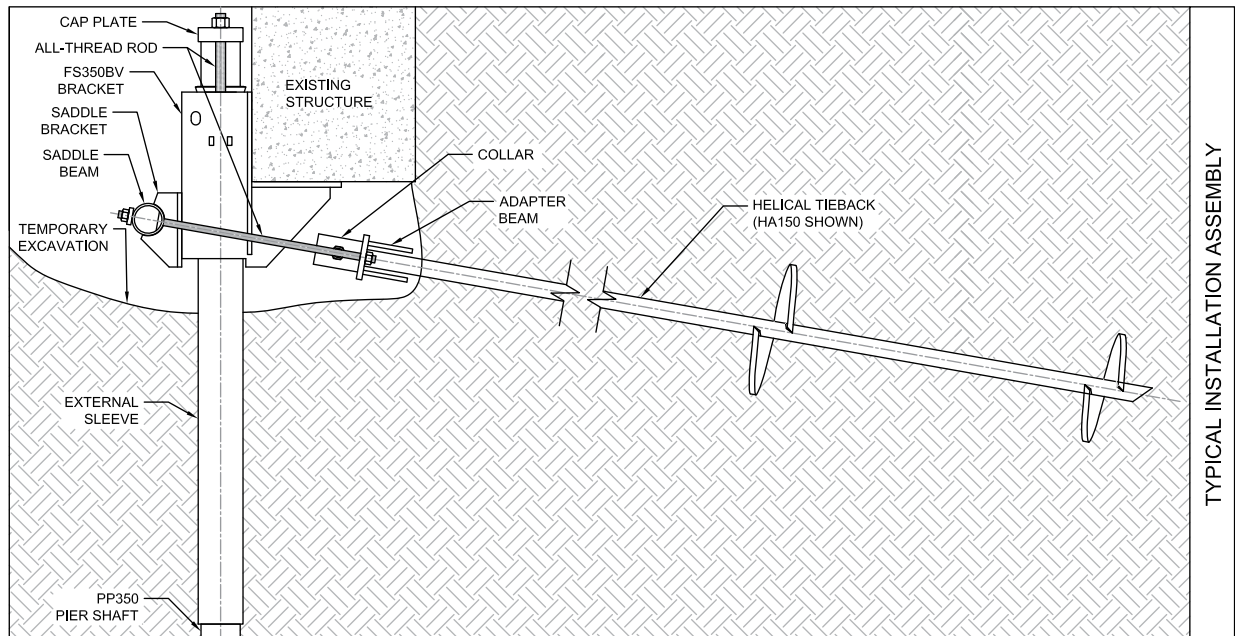
Saddle Beam:

Ø2.875" x 0.203" wall x 15.75" long pipe with internal
 stiffeners and nut bearing plates
 ASTM A500 Grade B or C
 Yield strength = 60 ksi (min.)

Finish:

Available plain or with hot-dipped galvanized coating in
 accordance with ASTM A123

Allowable Restraint System Capacity: 20,000 lbs.^(3,4)



- (1) Model 350 Lateral Restraint System is designed for use with the FS350BV bracket assembly.
- (2) The lateral restraint system is used to resist lateral forces exerted onto the foundation or the pier system.
- (3) Restraint system capacity is the allowable mechanical capacity only. Capacity of the system may be governed by the capacity of the helical tieback anchor determined by torque correlation, field testing, or calculation by approved methods. See the current edition of the Supportworks Technical Manual for more information.
- (4) Allowable capacity is in line with the helical tieback anchor. Resulting horizontal component will vary with the installed angle of the tieback anchor. Vertical component of the tieback anchor force should be accounted for in the pier design.
- (5) Installation of any tieback or anchor system in landslide or hillside creep soils should be designed by a professional engineer.
- (6) See separate technical specifications for information on the bracket, pier, and anchor components.