SS175
HELI-CAL PILES AND ANCHORS

TORQUE STRENGTH\* RATING - 10,500 FT-LB
ULTIMATE CAPACITY (COMPRESSION) - 105 KIP
\* BASED ON A TORQUE FACTOR (Ks) - 10
PER ICC-ES AC350 SECTION 3.13.2
NOMINAL TENSION STRENGTH (COUPLING BOLT) - 100 KIP

==NOTES==

1. HOT DIP GALVANIZED PER ASTM A153 (LATEST REVISION).
2. LEAD AND EXTENSION SECTION LENGTHS AND HELIX SPACINGS ARE NOMINAL.
3. NOMINAL SPACING BETWEEN HELIX PLATES IS THREE TIMES THE DIAMETER OF THE LOWER HELIX.
4. SHAFT MATERIAL - HOT ROLLED ROUND-CORNERED-SQUARE (RCS) SOLID STEEL BARS PER ASTM A255; MINIMUM YIELD STRENGTH = 90 KSI.
5. HELIX MATERIAL - HOT ROLLED LOW ALLOY STEEL SHEET, STRIP, OR PLATE PER ASTM A656, OR A1018 GRADE 80; MINIMUM YIELD STRENGTH = 80 KSI. FOR 8’ HELICES, 1/2’ THICK. FOR ALL OTHER HELICES, 3/8’ THICK.
6. COUPLING BOLTS: 7/8” DIAMETER X 3-1/2” LONG HEAD PER ASTM A193 GRADE B7.
7. MANUFACTURER TO HAVE IN EFFECT INDUSTRY RECOGNIZED WRITTEN QUALITY CONTROL FOR ALL MATERIALS AND MANUFACTURING PROCESSES.
8. ALL WELDING TO BE DONE BY WELDERS CERTIFIED UNDER SECTION 5 OF THE AWS CODE D1.1.
9. SEE ICC EVALUATION SERVICE INC., EVALUATION REPORT NO. ESR-2794 FOR NOMINAL, DESIGN, AND ALLOWABLE STRENGTH VALUES AND/OR CONDITIONS OF USE CONCERNING INFORMATION PRESENTED ON THIS DRAWING.
10. REFER TO DRAWING SA150-0183 FOR PLAIN EXTENSIONS AND TERMINATIONS.