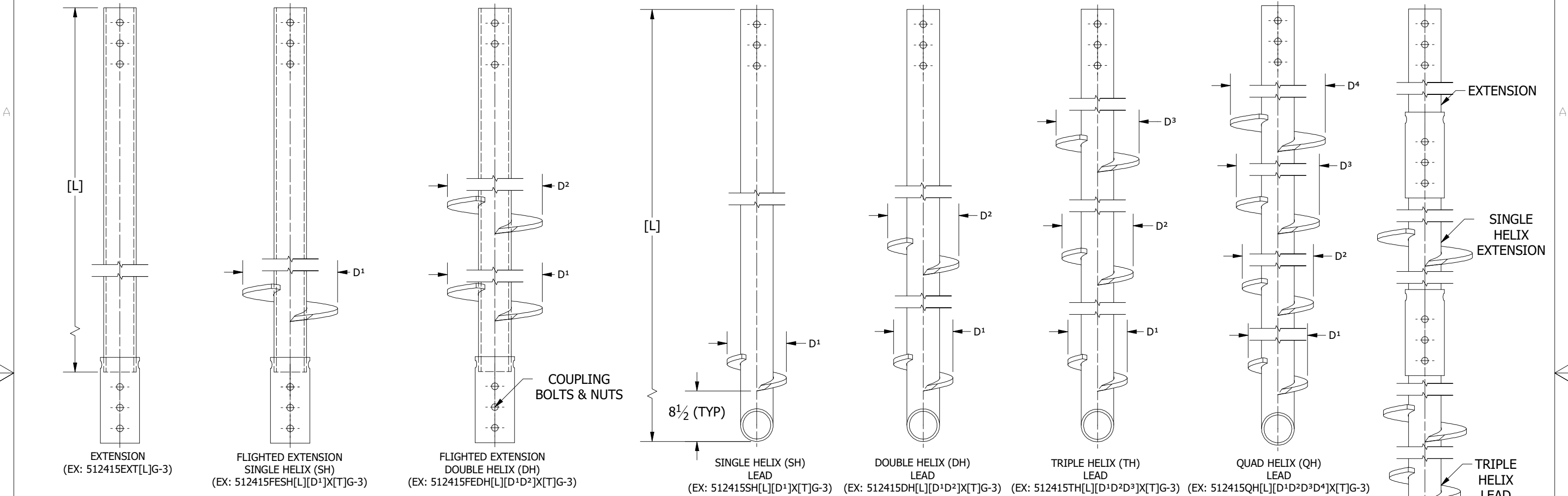


MAXIMUM TORQUE NOT TO EXCEED 60,000 FT-LBS.  
ULTIMATE CAPACITY IS 270 KIPS BASED ON A CAPACITY TO  
TORQUE RATIO OF  $k_t = 4.5 \text{ FT}^{-1}$

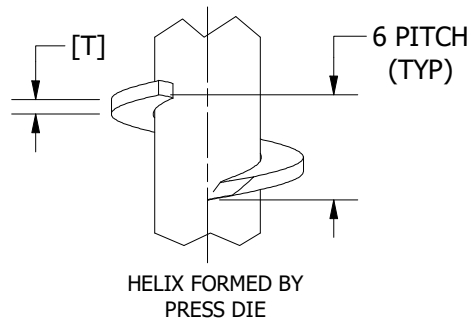
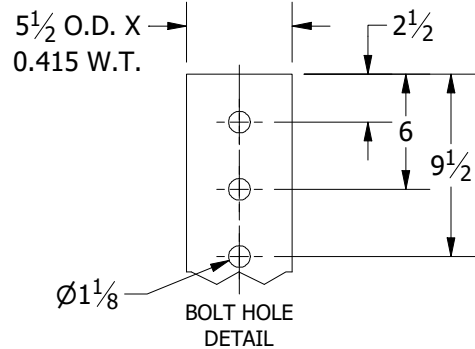
5 1/2" O.D. X 0.415" W.T. HELICAL LEADS & EXTENSIONS



- NOTES:**
- PILE SHAFT TO MEET OR EXCEED 80 KSI.
  - PLATE STEEL TO MEET OR EXCEED REQUIREMENTS OF ATSM A572, GRADE 50.
  - ALL HELICES ARE FORMED BY PRESS DIE. LEADING EDGE OF HELICES ARE TAPERED TO IMPROVE INSTALLATION CAPABILITIES.
  - HELIX SPACING IS THREE (3) TIMES THE DIAMETER OF THE LOWER HELIX. SPACING OF LEADING HELIX ON FLIGHTED EXTENSIONS IS THREE (3) TIMES THE DIAMETER OF THE LAST HELIX ON THE PRECEDING SHAFT.
  - STANDARD HELIX DIAMETERS ARE 12", 14", 16", 18" & 20". STANDARD HELIX THICKNESS IS 3/4".
  - ALL WELDING TO BE PERFORMED BY CERTIFIED WELDOR IN ACCORDANCE WITH AWS D1.1 STRUCTURAL WELDING CODE - STEEL.
  - BARE STEEL IS STANDARD. GALVANIZING IS AVAILABLE IF REQUIRED.
  - (3) 1" DIAMETER X 8 1/2" LONG PLAIN FINISH HEAVY HEX BOLT (GRADE 8) AND (3) 1" PLAIN FINISH HEAVY HEX NUT ASTM A194 (GRADE 8).

**IDEAL PART # ABBREVIATIONS:**

512 = SHAFT DIAMETER  
415 = SHAFT WALL THICKNESS  
EXT = EXTENSION  
FE = FLIGHTED EXTENSION  
SH, DH, TH, QH = SINGLE, DOUBLE, TRIPLE, OR QUAD. HELIX  
[L] = SHAFT LENGTH IN FEET (EXAMPLE: 7' = 7)  
[D] = HELIX DIAMETER(S) IN INCHES (EXAMPLE: 12" = 12)  
X = X (SEPARATES HELIX DIAMETER(S) AND HELIX THICKNESS)  
[T] = HELIX THICKNESS (EXAMPLE: 3/4" = 34)  
G = GALVANIZED (IF REQUIRED)  
-3 = BOLT QUANTITY



DRAWN  
AP 4/3/2020

CHECKED  
LRS 4/8/2020

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NOT TO SCALE  
ALL UNITS IN INCHES U.N.O.

SIZE  
B DWG NO  
512415-3

REV  
0 SHEET 1 OF 1