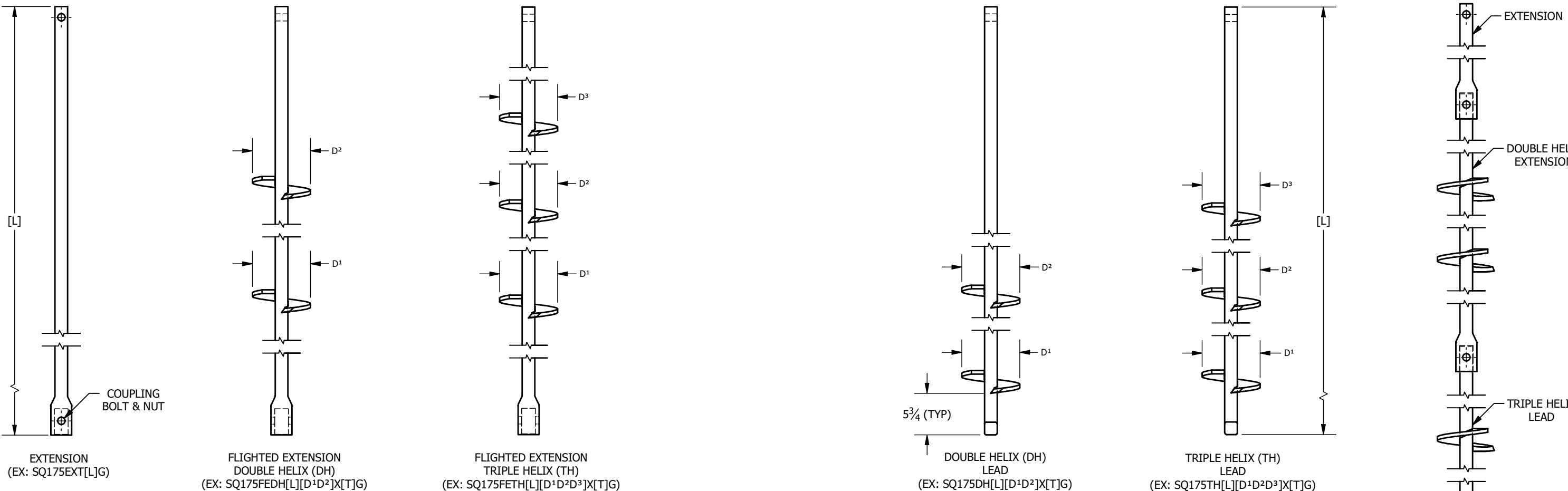


MAXIMUM TORQUE NOT TO EXCEED 11,000 FT-LBS.
ULTIMATE CAPACITY IS 110 KIPS BASED ON A CAPACITY TO
TORQUE RATIO OF $k_t = 10 \text{ FT}^{-1}$

1 3/4" ROUND CORNER SQUARE SHAFT HELICAL SOIL NAIL LEADS & EXTENSIONS



- NOTES:**
- PILE SHAFT TO MEET OR EXCEED REQUIREMENTS OF ASTM A29-15/A576-90B, 90 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 8", 10", 12", & 14". STANDARD HELIX THICKNESS IS 3/8" OR 1/2".
 - ALL WELDING TO BE PERFORMED BY CERTIFIED WELDOR IN ACCORDANCE WITH AWS D1.1 STRUCTURAL WELDING CODE - STEEL.
 - HOT DIP GALVANIZING PER ASTM A153/ASTM A123. BARE STEEL IS ALSO AVAILABLE.
 - (1) 7/8" DIAMETER X 3 3/4" LONG GALVANIZED HEAVY HEX BOLT ASTM A193 (GRADE B7) AND (1) 7/8" GALVANIZED HEAVY HEX JAM NUT (GRADE A).
 - HELICAL PILE ASSEMBLIES MANUFACTURED IN ACCORDANCE WITH ICC-ES AC308 ACCEPTANCE CRITERIA FOR HELICAL FOUNDATION SYSTEMS AND DEVICES.
- IDEAL PART # ABBREVIATIONS:**
- SQ = ROUND CORNER SQUARE SHAFT
175 = SHAFT DIAMETER
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: 10" = 10)
X = X (SEPARATES HELIX DIAMETER(S) AND HELIX THICKNESS)
[T] = HELIX THICKNESS (EXAMPLE: 1/2" = 12)
G = GALVANIZED

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IDEAL MANUFACTURING, INC. 999 PICTURE PARKWAY WEBSTER, NY 14580 800-789-4810 WWW.IDL-GRP.COM					
NOT TO SCALE ALL UNITS IN INCHES U.N.O.		SIZE B	DWG NO SQ175 - SOIL NAIL	REV 0	SHEET 1 OF 1