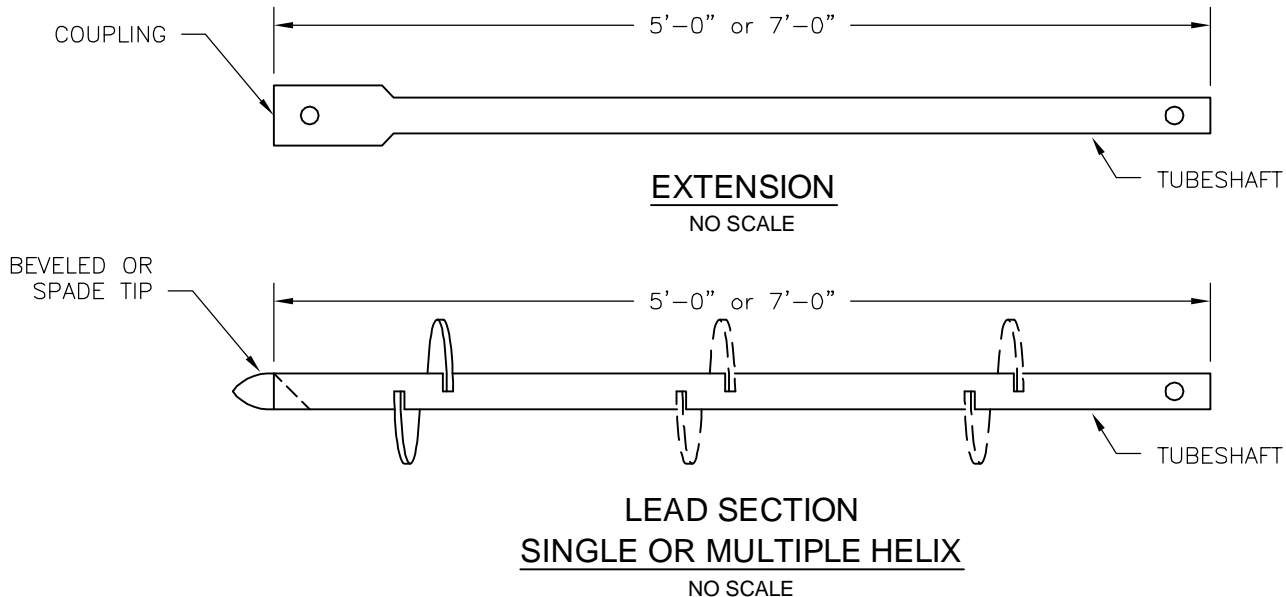


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HPFT



NOTES:

1. THIS DRAWING COVERS 2" (1/4" WALL), 2.5" (1/4" WALL), 3" (1/4" WALL), 3" (5/16" WALL), 4" (1/4" WALL), AND 4" (1/2" WALL) TUBULAR HELICAL PILE MATERIAL MANUFACTURED BY IMR.
2. HPFT2: 2"x2" STRUCTURAL TUBING, 0.25" WALL THICKNESS. THE CONNECTION BOLT IS 0.75" DIAMETER SAE J429 Gr 5 STEEL (Fy=120 KSI) OR EQUIVALENT. MAX. TORQUE CAPACITY IS 4,000 FT-LBS.
3. HPFT25: 2.5"x2.5" STRUCTURAL TUBING, 0.25" WALL THICKNESS. THE CONNECTION BOLT IS 0.75" DIAMETER SAE J429 Gr 5 STEEL (Fy=120 KSI) OR EQUIVALENT. MAX. TORQUE CAPACITY IS 7,000 FT-LBS.
4. HPFT3: 3"x3" STRUCTURAL TUBING, 0.25" WALL THICKNESS. THE CONNECTION BOLT IS 0.875" DIAMETER SAE J429 Gr 5 STEEL (Fy=120 KSI) OR EQUIVALENT. MAX. TORQUE CAPACITY IS 11,000 FT-LBS.
5. HPFT331: 3"x3" STRUCTURAL TUBING, 0.313" WALL THICKNESS. THE CONNECTION BOLT IS 1" DIAMETER SAE J429 Gr 5 STEEL (Fy=120 KSI) OR EQUIVALENT. MAX. TORQUE CAPACITY IS 15,000 FT-LBS.
6. HPFT425: 4"x4" STRUCTURAL TUBING, 0.25" WALL THICKNESS. THE CONNECTION BOLT IS 1.25" DIAMETER SAE J429 Gr 5 STEEL (Fy=120 KSI) OR EQUIVALENT. MAX. TORQUE CAPACITY IS 22,000 FT-LBS.
7. HPFT4: 4"x4" STRUCTURAL TUBING, 0.5" WALL THICKNESS. THE CONNECTION BOLT IS 1.25" DIAMETER SAE J429 Gr 5 STEEL (Fy=120 KSI) OR EQUIVALENT. MAX. TORQUE CAPACITY IS 30,000 FT-LBS.
8. ALL STRUCTURAL TUBING IS PER ASTM A500 Gr C (Fy = 50KSI)
9. ALL HELIX MATERIAL IS 0.5" THICK AND IS PER ASTM A656 Gr 80 TYPE 7.
10. ULTIMATE HELIX MECHANICAL CAPACITY: 6" THROUGH 12" DIAMETER = 70,000 LBS
14" DIAMETER = 56,000 LBS
11. ALL WELDS ARE 0.25" FILLET MINIMUM WITH ER70S ELECTRODE.
12. ALL STEEL MATERIAL IS GALVANIZED PER ASTM B633-85 FE/ZN, TYPE III.
13. ULTIMATE MECHANICAL CAPACITY:
 - HPFT2: 40,000 LBS. COMPRESSION, 40,000 LBS TENSION.
 - HPFT25: 70,000 LBS. COMPRESSION, 60,000 LBS TENSION.
 - HPFT3: 110,000 LBS. COMPRESSION, 62,000 LBS TENSION.
 - HPFT331: 150,000 LBS. COMPRESSION, 62,000 LBS TENSION.
 - HPFT425: 220,000 LBS. COMPRESSION, 105,000 LBS TENSION.
 - HPFT4: 300,000 LBS. COMPRESSION, 105,000 LBS TENSION.

<p>HELI-PILE[®] IMR, Inc. - DENVER 5135 Ward Road, Wheat Ridge, Colorado, 80033 USA 303-423-0591 Fax: 303-423-9155 www.helipile.com</p>	<p>SPECIFICATION SHEET</p>		<p>TUBULAR HELICAL PILES</p>				
	DRAWN BY:	RJV	ENGINEER:	JSP	DATE:	09/01/11	REVISION: