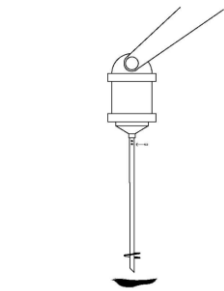


# INSTALLATION MANUAL

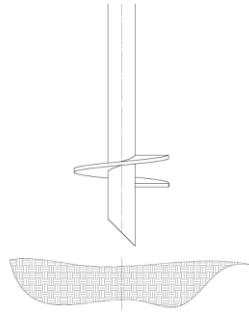
# INSTALLATION

The simplicity of how helical piles are installed assist in growing the popularity of helical piles. It is quite simple when provided the proper equipment for installation. Before proceeding with installation, each jobsite should be carefully examined for both soil conditions and any underground utilities that might be present on a jobsite.

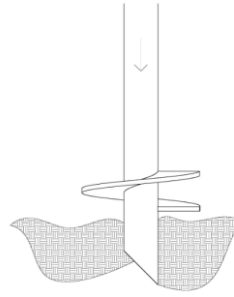
The general procedure on how to install a helical pile is shown in the figures below:



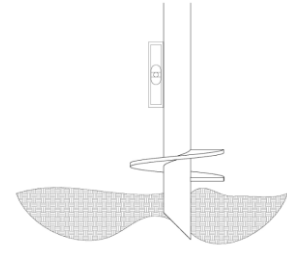
**1. ATTACH HELICAL PILE LEAD SECTION TO TORQUE ADAPTOR USING DRIVE PIN**



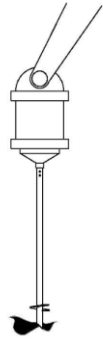
**2. CENTER HELICAL PILE OVER PLANNED PILE LOCATION**



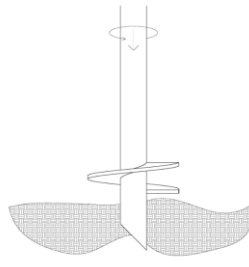
**3. PUSH PILOT DOWNWARD UNTIL BOTTOM HELIX MAKES CONTACT WITH GROUND SURFACE**



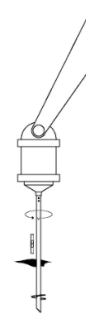
**4. CHECK PLUMBNESS**



**5. CHECK ALIGNMENT AND PLUMBNESS OF TORQUE MOTOR AND ALL LINKAGE**



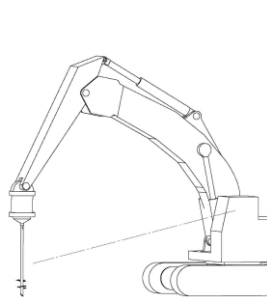
**6. BEGIN ROTATION WHILE APPLYING DOWNWARD CROWD**



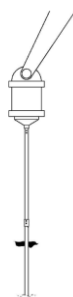
**7. CONTINUE INTALLATION, CHECK PLUMBNESS AS REQUIRED**



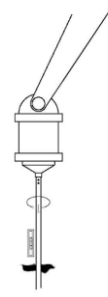
**8. RECORD DEPTH AND TORQUE READINGS AT SELECT INTERVALS**



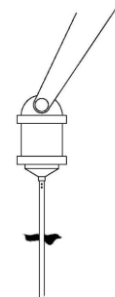
**9. STOP AT GROUND SURFACE SO THAT OPERATOR CAN SEE DRIVE PIN CLEARLY**



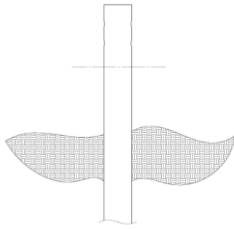
**10. ADD EXTENSION SECTIONS AS NECESSARY**



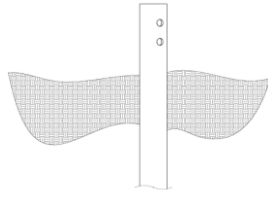
**11. CONTINUE INSTALLATION, CHECK PLUMBNESS AS REQUIRED**



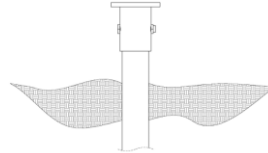
**12. HALT INSTALLATION WHEN SPECIFIED DEPTH AND TORQUE ARE ACHIEVED**



**13. CUT SHAFT TO FINAL ELEVATION**



**14. DRILL BOLT HOLES AS NECESSARY**



**15. MOUNT PIER CAP**



**16. RECORD FINAL DEPTH, TORQUE, AND ELEVATION**