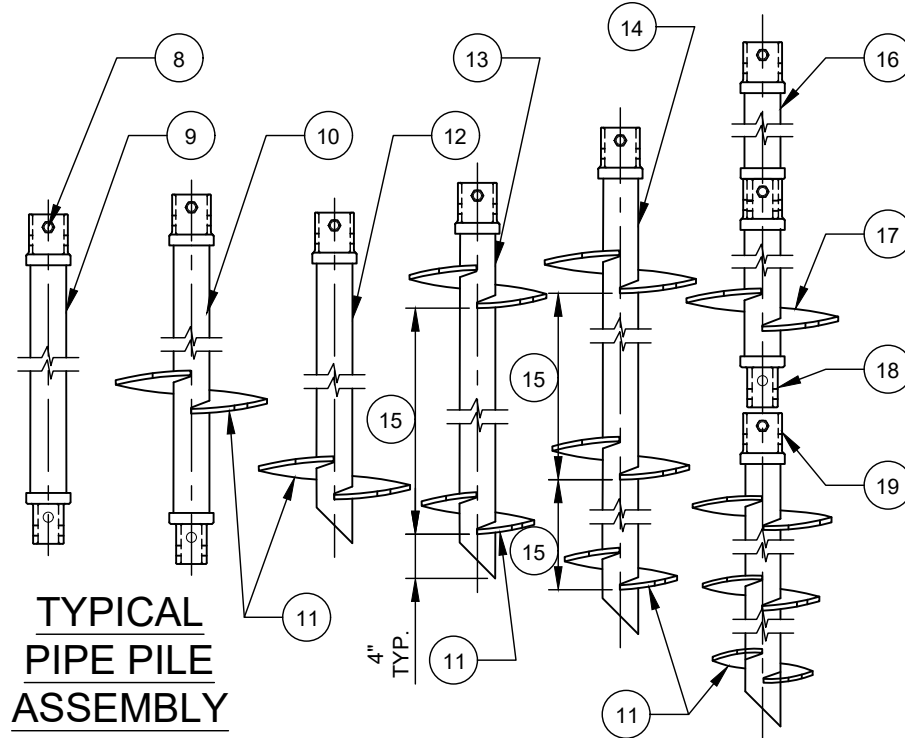


PLAN VIEW

ELEVATION VIEW

SIDE VIEW

TWO-PILE HELICAL PIER
PILE CAP



TYPICAL
PIPE PILE
ASSEMBLY

NO. DESCRIPTION:

1. HELICAL PIER.
2. PIPE SADDLE COMPRISED OF STEEL ANGLE AND STEEL PLATE.
3. BOLTS AT PIPE SADDLE CONNECTION.
4. CLAMPING U-ROD WITH THREADED ENDS.
5. COLLAR ASSEMBLY INSTALLED OVER HELICAL PIER LEAD SECTION AFTER CUTTING SQUARE END JOINT OFF LEAD.
6. CHANNEL INSTALLED ON EACH SIDE OF COLLAR ASSEMBLY.
7. BOLTS AT CHANNEL TO COLLAR CONNECTION EACH SIDE AT EACH COLLAR. HOLES IN CHANNEL WEB TO BE FIELD DRILLED.
8. HEX HEAD BOLT & NUT.
9. PIPE PILE EXTENSION.
10. PIPE PILE EXTENSION WITH HELIX.
11. HELIX.
12. SINGLE HELIX LEAD.
13. DOUBLE HELICES LEAD.
14. TRIPLE HELICES LEAD.
15. 3 X LOWER HELIX DIAMETER.
16. EXTENSION SHAFT.
17. SINGLE HELIX EXTENSION.
18. CAST STEEL MALE COUPLING.
19. CAST STEEL FEMALE COUPLING.

NOTES:

- A. SINGLE OR MULTI HELIX, NUMBER AND DIAMETER OF HELIX PLATE(S) VARY DEPENDING ON PIER LOAD AND SOIL CONDITIONS.
- B. FINISH TO BE HOT DIP GALVANIZED.
- C. DIMENSIONS OF THE CENTRAL SHAFT AND THE NUMBER, SIZE, SPACING, AND THICKNESS OF THE HELICAL BEARING PLATES SHALL BE DESIGNED AND FABRICATED TO SUPPORT SPECIFIED DESIGN LOADS.
- D. HELICAL PIERS MAY ONLY BE USED ON MINOR CREEKS NEAR THE CREEK HEADWATERS WITHOUT A 100 YEAR FLOODPLAIN ELEVATION.