

FOUNDATIONS (SCREW PILES)

THE FOUNDATION DESIGN IS BASED ON USING A CONTINUOUS SCREW PILE ASSEMBLY CONSISTING OF A PILE SHAFT AND MULTIPLE HELICES

PILES HAVE BEEN DESIGNED ASSUMING A SKIN FRICTION VALUE OF 375 PSF AND AN END BEARING CAPACITY OF 4177 PSF

FOR EXTERIOR PILES, THE TOP 6.6 FT BELOW FINISHED GRADE HAS BEEN NEGLECTED FOR INTERIOR PILES AND BASEMENT WALL PILES, THE TOP 3 FT HAS BEEN NEGLECTED SKIN FRICTION HAS BEEN ASSUMED FROM THE ABOVE DATUM TO ONE HELIX DIA ABOVE THE FIRST HELIX

BEARING AREA HAS BEEN ASSUMED TO BE THE HORIZ PROJECTED AREA OF THE HELIX LESS THE DIA OF THE PILE FOR THE UPPER HELICES AND THE FULL PROJECTED AREA FOR THE LOWEST HELIX

PILE WALL THICKNESS AND SIZE SHOWN IS MINIMUM AND SHALL BE INCREASED AS NECESSARY TO ACCOMMODATE INSTALLATION EQUIPMENT AND

SCREW PILES SHALL BE PLACED NOT CLOSER THAN 3 HELIX DIA FROM ADJACENT PILE U/N PITCH OF HELICES SHALL BE 6" UNLESS APPROVED BY THE [OWNER | CONSULTANT | ENGINEER]

SPACING OF HELICES SHALL NOT BE LESS THAN 3 TIMES THE HELIX DIA

SPACING OF HELICES SHALL BE A WHOLE NUMBER MULTIPLE OF THE HELIX PITCH

PROVIDE A ZINC RICH EPOXY PRIMER FOR THE TOP 10 FT OF ALL PILES AND THE PILE HEAD

INSTALLATION PROCEDURE

FABRICATE SCREW PILES AS STIPULATED; PROVIDE ADDED LENGTH FOR INSTALLATION

PROVIDE 1" MIN THICK CAP PLATE WITH SUITABLE MEANS OF ATTACHMENT FOR INSTALLATION EQUIPMENT

INSTALL PILES AS SHOWN IN THE DOCUMENTS

CUT PILE TOP TO SUIT THE WORK AND REMOVE COATING AS REQUIRED

WELD NEW 1"x 16"x 16" MIN CAP PL TO PILE AT PROPER ELEV

CONNECTION PL TO BE HDG. GRIND OFF HDG AS REQUIRED FOR WELDING. WELD NEW CONNECTION PL TO CAP PL

ALL WELDS TO BE 1/4" FILLET WELD MIN ALL AROUND

PROVIDE A ZINC RICH EPOXY PRIMER TOUCH-UP FOR ALL STEEL NOT ENCASED IN CONCRETE

GEOTECHNICAL

A GEOTECHNICAL REPORT HAS NOT BEEN PREPARED FOR THIS SITE. THE CLIENT IS RESPONSIBLE FOR OBTAINING A GEOTECHNICAL REPORT TO CONFIRM DESIGN ASSUMPTIONS. THE CONSULTANT ASSUMES NO LIABILITY FOR THESE DESIGN ASSUMPTIONS OR FOR ANY FOUNDATION REDESIGN NECESSITATED BY DIFFERING SOIL CONDITIONS

FOUNDATIONS

THE FOUNDATION CONTRACTOR SHALL COORDINATE WITH THE OWNER TO LOCATE EXISTING SERVICES AND OBTAIN PERMITS AS REQUIRED. EXISTING SERVICES IDENTIFIED ON THE FOUNDATION DRAWINGS SHALL BE FIELD LOCATED

TESTING, IF REQUIRED, SHALL BE PERFORMED BY THE FOUNDATION CONTRACTOR AND WITNESSED BY AN APPROVED INDEPENDENT TESTING AGENCY AS SELECTED BY THE SITE ENGINEER

FOUNDATIONS SHALL BE PLACED:

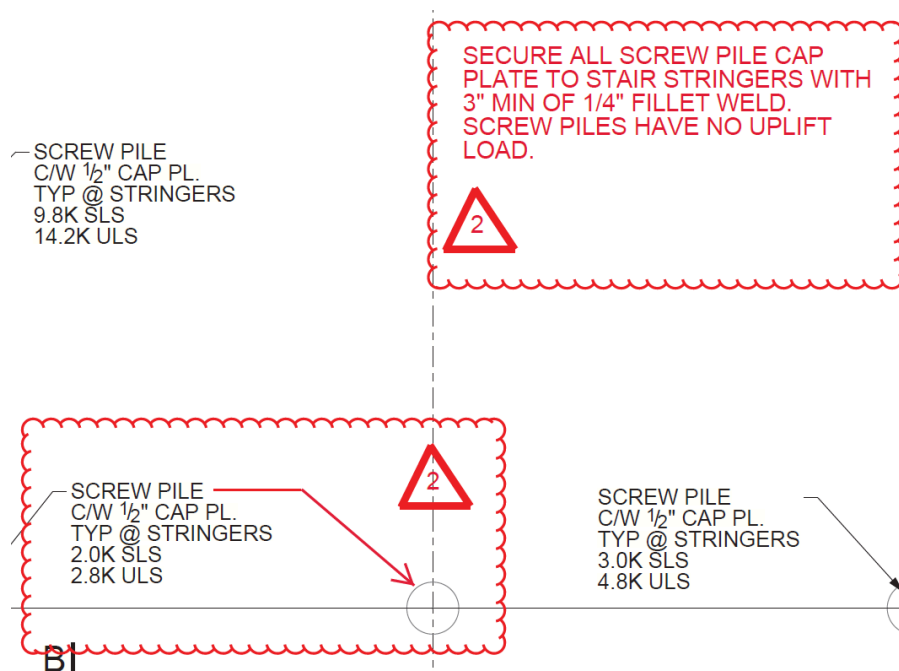
- NOT MORE THAN 3" OFF CENTRE
- NOT MORE THAN 2% OF THEIR LENGTH OUT OF PLUMB

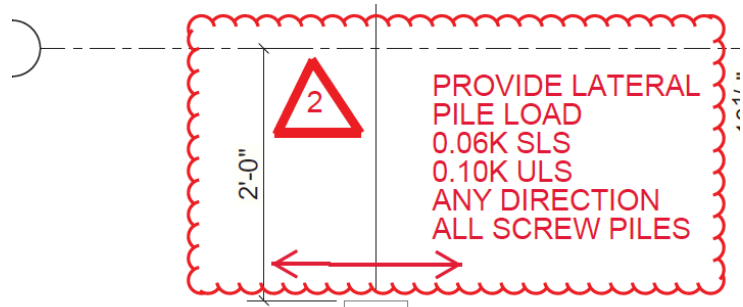
FOUNDATIONS SHALL BE CENTRED UNDER COLS, BEAMS AND WALLS UNLESS SHOWN OTHERWISE

THE FOUNDATION DESIGN IS BASED ON USING A CONTINUOUS SCREW PILE ASSEMBLY CONSISTING OF A PILE SHAFT AND ONE OR MORE HELICES. SCREW PILE SHALL BE

PILES SHALL BE DESIGNED FOR THE STIPULATED LOADING SHOWN ON THE DRAWING(S). PROVIDE SEALED ENGINEERING DRAWINGS CERTIFYING THE LOAD CAPACITY

PITCH OF HELICES SHALL BE 6" UNLESS APPROVED BY THE CONSULTANT. SPACING OF HELICES SHALL NOT BE LESS THAN 3 TIMES THE HELIX DIA. SPACING OF HELICES SHALL BE A WHOLE NUMBER MULTIPLE OF THE HELIX PITCH





SCREW PILE
C/W 1/2" CAP PL.
TYP @ STRINGERS

SCREW PILE
C/W 1/2" CAP PL.
TYP @ STRINGERS