|   |   | 2           |  |   |   |  |   |  |  |  |  | T   |                          |   |   |
|---|---|-------------|--|---|---|--|---|--|--|--|--|---|--------------------------|---|---|
| DETAI   | DETAIL A<br>DETAIL A<br>DETAIL C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C |             |  |   |   |  |   |  |  |  |  | NOTES :<br>1-MATERIALS:<br>- HELIX PLATE PER CSA G40.21 50W, MIN.FY=60 KSI, ULTIMATE<br>STRENGTH 70 KSI<br>-TUBES PER ASTM A500 GR C, FY=60KSI, FU=70KSI<br>2-ANY CHANGE OF MATERIAL IS SUBJECT TO GOLIATHTECH APPROVAL<br>3-WELD PERFORMED IN ACCORDANCE WITH CSA STANDARD W47.1<br>AND GOLIATHTECH WELDING PROCEDURES. WELDERS ARE ALSO<br>CERTIFIED TO THE AWS STANDARD.<br>4-HOT-DIP GALVANIZED, PARTS PER ASTM A123. |                          |   |   |
|   | Dimension   |             | MECHANICAL ASD LOA   |   |   |  |   |  |  |  | 2  |   |                          |   |   |
|   |   |             | Compressio   |   |   | sion   |   |  | Bending  | Max Soil   | 1  |   |                          | 2023-09-1   |   |
| NO.   | (inches)  | Description | ed Shi Lul   |   | (kips)  |  | Tension   |  | Moment   | Capacity   | REV  |   |                          |   | DATE  |
|   | (   |             | UND TREAST STATE UP  | 0<br>Coupler  | 1<br>Coupler  | 2<br>Coupler   | (kips)  | (kips)   | (kips.ft)  | Comp/Ten<br>* (kips)   | G  |   |                          | ŢHŢ   |   |
| A   | 120   |             |  | 65.5  |   |  |   |  |  |  |  |   |                          |   |   |
| · · ·   | 120   |             | 0  | 05.5  | 65.5  | 65.5   |   |  |  |  |  |   |                          | ╡┚╹╹╹   |   |
| В   | 17  |             | 5  | 28.1  | 15.0  | 8.1  | _   |  |  |  |  |   |                          |   |   |
|   |   |             | -  |   |   |  | 25.78   | 16.70  | 4.59   | 34.88  |  |   |                          | PRESTIGE LI   |   |
| В   | 17  |             | 5  | 28.1  | 15.0  | 8.1  | 25.78   | 16.70  | 4.59   | 34.88  |  | GOLIATI   | HTECH                    | PRESTIGE LI   |   |
| B<br>C  | 17<br>4 1/4   |             | 5<br>10  | 28.1<br>14.1  | 15.0<br>9.8   | 8.1<br>6.3   | 25.78   | 16.70  | 4.59   | 34.88  |  | GOLIATI   | HTECH                    | PRESTIGE LI<br>8 (0.250 wall) with a<br>DWG. NO   | <b>NE</b><br>9 17", 17" and 17" Hel<br>:  |
| B<br>C<br>D   | 17<br>4 1/4<br>3 PITCH  |             | 5<br>10<br>15<br>20<br>Note:   | 28.1<br>14.1<br>7.4<br>4.6  | 15.0<br>9.8<br>6.0<br>4.0   | 8.1<br>6.3<br>4.5<br>3.3   | -   |  |  | 34.88  | TITLE: 10'                                   | GOLIATI   | HTECH                    | PRESTIGE LI<br>8 (0.250 wall) with a<br>DWG. NO   | NE<br>a 17", 17" and 17" Hel<br>:<br>8171717-10FT   |
| B<br>C<br>D<br>E                                    | 17<br>4 1/4<br>3 PITCH<br>3/8   |             | 5<br>10<br>15<br>20<br>Note:<br>1. Soil capacity<br>2. Maximum ult   | 28.1<br>14.1<br>7.4<br>4.6<br>(P4) mus  | 15.0<br>9.8<br>6.0<br>4.0   | 8.1<br>6.3<br>4.5<br>3.3<br>ermined p  | per Section 4   | .1.5 of this r<br>Pult = Kt x 1  | eport.   | e corresponding  | TITLE: 10'                                   | GOLIATI   | HTECH                    | PRESTIGE LL<br>8 (0.250 wall) with a<br>DWG. NO<br>GTP127   | NE<br>a 17", 17" and 17" Hel<br>:<br>8171717-10FT   |
| B<br>C<br>D<br>E<br>F                               | 17<br>4 1/4<br>3 PITCH<br>3/8<br>1<br>1 1/2   |             | 5<br>10<br>15<br>20<br>Note:<br>1. Soil capacity<br>2. Maximum ult<br>maximum insta  | 28.1<br>14.1<br>7.4<br>4.6<br>(P4) mustimate so<br>allation to  | 15.0<br>9.8<br>6.0<br>4.0<br>st be dete<br>il capacit   | 8.1<br>6.3<br>4.5<br>3.3<br>ermined p<br>y is deter<br>ting for  | per Section 4<br>mined from<br>the specific   | .1.5 of this r<br>Pult = Kt x 1<br>pile model  | eport.<br>5 based on the   | e corresponding<br>soil capacity is  | TITLE: 10'                                   | GOLIATI   | HTECH                    | PRESTIGE LI<br>8 (0.250 wall) with a<br>DWG. NO<br>GTPI27<br>DRAWN B<br>ARG<br>DESIGN B   | NE<br>17", 17" and 17" Hel<br><b>8171717-10FT</b><br>Y:<br>(:                                   |
| B<br>C<br>D<br>E<br>F<br>G                          | 17<br>4 1/4<br>3 PITCH<br>3/8<br>1<br>1 1/2<br>2 7/8  |             | 5<br>10<br>15<br>20<br>Note:<br>1. Soil capacity<br>2. Maximum ult<br>maximum insta<br>determined froi<br>for the specific   | 28.1<br>14.1<br>7.4<br>4.6<br>(P4) mustimate so<br>allation to<br>m Pa = P<br>pile mode   | 15.0<br>9.8<br>6.0<br>4.0<br>st be dete<br>il capacit<br>orque ra<br>ult /2.0 b<br>el. See S  | 8.1<br>6.3<br>4.5<br>3.3<br>ermined p<br>y is deter<br>ting for<br>based on<br>tection 4.  | per Section 4<br>mined from<br>the specific<br>the correspo<br>1.5 for additi   | .1.5 of this r<br>Pult = Kt x 1<br>pile mode<br>nding maxir<br>onal informa  | eport.<br>È based on the<br>I. Allowable =<br>num installati<br>tion.  | e corresponding<br>soil capacity is<br>on torque rating  | TITLE: 10'                                   | GOLIATI   | HTECH                    | PRESTIGE LL<br>8 (0.250 wall) with a<br>DWG. NO<br>GTP127<br>DRAWN B<br>ARG<br>DESIGN B<br>GOLIAT   | NE<br>17", 17" and 17" Hel<br><b>8171717-10FT</b><br>Y:<br>/:<br>HTECH                          |
| B<br>C<br>D<br>E<br>F<br>G<br>H<br>I                | 17<br>4 1/4<br>3 PITCH<br>3/8<br>1<br>1 1/2<br>2 7/8<br>9/16                                      | Weld        | 5<br>10<br>15<br>20<br>Note:<br>1. Soil capacity<br>2. Maximum ult<br>maximum insta<br>determined froi<br>for the specific<br>3. Mechanical t  | 28.1<br>14.1<br>7.4<br>4.6<br>(P4) must<br>imate so<br>allation to<br>m Pa = P<br>pile mode<br>orsion rai   | 15.0<br>9.8<br>6.0<br>4.0<br>st be dete<br>il capacit<br>orque ra<br>ult /2.0 b<br>el. See S<br>ting is the   | 8.1<br>6.3<br>4.5<br>3.3<br>ermined p<br>y is detenting for<br>based on<br>tection 4.<br>e maximu  | per Section 4<br>mined from<br>the specific<br>the correspo<br>1.5 for additi<br>m torsional  | .1.5 of this r<br>Pult = Kt x 1<br>pile mode<br>nding maxir<br>onal informa<br>resistance o                                | eport.<br>based on the<br>Allowable =<br>num installati<br>tion.<br>f the steel sha  | e corresponding<br>soil capacity is<br>on torque rating<br>aft.  | TITLE: 10'<br>SEAL:                          | GOLIATI   | HTECH                    | PRESTIGE LI<br>8 (0.250 wall) with a<br>DWG. NO<br>GTPI27<br>DRAWN B<br>ARG<br>DESIGN B   | NE<br>17", 17" and 17" Hel<br>8171717-10FT<br>Y:<br>/:<br>HTECH                                 |
| B<br>C<br>D<br>F<br>G<br>H<br>I<br>J                | 17<br>4 1/4<br>3 PITCH<br>3/8<br>1<br>1 1/2<br>2 7/8<br>9/16<br>1/4                               | Weld        | 5<br>10<br>15<br>20<br>Note:<br>1. Soil capacity<br>2. Maximum ult<br>maximum insta<br>determined from<br>for the specific<br>3. Mechanical t<br>4. Maximum<br>verification tes  | 28.1<br>14.1<br>7.4<br>4.6<br>(P4) mustimate so<br>allation to<br>n Pa = P<br>pile mode<br>orsion ra<br>Torque F  | 15.0<br>9.8<br>6.0<br>4.0<br>st be deteil<br>capacit<br>orque ra<br>ult /2.0 b<br>el. See S<br>ting is the<br>Per Soil  | 8.1<br>6.3<br>4.5<br>3.3<br>ermined p<br>y is deter<br>ting for<br>vased on<br>vection 4.<br>e maximu.<br>Tests is   | per Section 4<br>mined from<br>the specific<br>the correspo<br>1.5 for additi<br>m torsional<br>the maxim   | .1.5 of this r<br>Pult = Kt x 1<br>pile mode<br>nding maxir<br>onal informa<br>resistance o<br>um torque                   | eport.<br>based on the<br>Allowable =<br>num installati<br>tion.<br>f the steel sha<br>achieved du   | e corresponding<br>soil capacity is<br>on torque rating  | TITLE: 10'<br>SEAL:                          | GOLIATI   | HTECH                    | PRESTIGE LL<br>8 (0.250 wall) with a<br>DWG. NO<br>GTP127<br>DRAWN B<br>ARG<br>DESIGN B'<br>GOLIAT<br>CHECK BY<br>CPOC<br>APP BY:                                   | NE<br>17", 17" and 17" Hel<br>8171717-10FT<br>Y:<br>/:<br>HTECH                                 |
| B<br>C<br>D<br>E<br>F<br>G<br>H                     | 17<br>4 1/4<br>3 PITCH<br>3/8<br>1<br>1 1/2<br>2 7/8<br>9/16<br>1/4<br>51                         | Weld        | 5<br>10<br>15<br>20<br>Note:<br>1. Soil capacity<br>2. Maximum inst<br>determined froi<br>for the specific<br>3. Mechanical t<br>4. Maximum<br>verification tes<br>interaction.  | 28.1<br>14.1<br>7.4<br>4.6<br>(P4) must<br>timate so<br>allation to<br>m Pa = P<br>pile mode<br>orsion ra<br>Torque F<br>Torque F   | 15.0<br>9.8<br>6.0<br>4.0<br>st be dete<br>il capacit<br>orque ra<br>ult /2.0 b<br>el. See S<br>ting is the<br>'er Soil<br>was co   | 8.1<br>6.3<br>4.5<br>3.3<br>ermined p<br>y is deterting for<br>vased on<br>vection 4.<br>e maximu.<br>Tests is<br>nducted  | per Section 4<br>mined from<br>the specific<br>the correspo<br>1.5 for additi<br>m torsional<br>the maxim<br>to verify the  | .1.5 of this r<br>Pult = Kt x T<br>pile mode<br>nding maxir<br>onal informa<br>resistance o<br>um torque<br>e pile axial   | report.<br>based on the<br>Allowable =<br>mum installati<br>tion.<br>f the steel sha<br>achieved du<br>capacity rela                                   | e corresponding<br>soil capacity is<br>on torque rating<br>aft.<br>uring field axial<br>ated to pile-soil                    | TITLE: 10'<br>SEAL:                          | GOLIATI   | HTECH                    | PRESTIGE LL<br>8 (0.250 wall) with a<br>DWG. NO<br>GTP127<br>DRAWN B<br>ARG<br>DESIGN B'<br>GOLIAT<br>CHECK BY<br>CPOC<br>APP BY:<br>CPOC                           | NE<br>a 17", 17" and 17" Hel<br><b>8171717-10FT</b><br>Y:<br>/:<br>HTECH                        |
| B<br>C<br>D<br>F<br>G<br>H<br>I<br>J<br>K<br>L      | 17<br>4 1/4<br>3 PITCH<br>3/8<br>1<br>1 1/2<br>2 7/8<br>9/16<br>1/4<br>51<br>17                   | Weld        | 5<br>10<br>15<br>20<br>Note:<br>1. Soil capacity<br>2. Maximum ult<br>maximum insta<br>determined from<br>for the specific<br>3. Mechanical t<br>4. Maximum<br>verification tes<br>interaction.<br>5. Maximum In<br>"maximum torq  | 28.1<br>14.1<br>7.4<br>4.6<br>(P4) must<br>timate so<br>allation to<br>m Pa = P<br>pile mode<br>orsion ra<br>Forque F<br>ting that<br>stallation<br>ue per so                               | 15.0<br>9.8<br>6.0<br>4.0<br>st be dete<br>il capacit<br>orque ra<br>ult /2.0 b<br>el. See S<br>ting is the<br>2er Soil<br>was co<br>Torque   | 8.1<br>6.3<br>4.5<br>3.3<br>ermined p<br>y is deterting for<br>vased on<br>vased on<br>vased on<br>vased on<br>tection 4.<br>e maximu<br>Tests is<br>nducted<br>rating is  | per Section 4<br>mined from<br>the specific<br>the correspo<br>1.5 for additi<br>m torsional<br>the maxim<br>to verify the<br>the lower o                           | .1.5 of this r<br>Pult = Kt x 1<br>pile model<br>nding maxin<br>onal informa<br>resistance o<br>num torque<br>e pile axial | report.<br>based on the<br>Allowable =<br>mum installati<br>tion.<br>f the steel sha<br>achieved du<br>capacity rela<br>anical torsion                 | e corresponding<br>soil capacity is<br>on torque rating<br>aft.<br>uring field axial<br>ated to pile-soil<br>rating" and the | TITLE: 10'<br>SEAL:                          | GOLIATI   | HTECH                    | PRESTIGE LL<br>8 (0.250 wall) with a<br>DWG. NO<br>GTP127<br>DRAWN B<br>ARG<br>DESIGN B'<br>GOLIAT<br>CHECK BY<br>CPOC<br>APP BY:                                   | NE<br>a 17", 17" and 17" Hel<br><b>8171717-10FT</b><br>Y:<br>/:<br>HTECH                        |
| B<br>C<br>D<br>E<br>F<br>G<br>H<br>I<br>J<br>K<br>L | 17<br>4 1/4<br>3 PITCH<br>3/8<br>1<br>1 1/2<br>2 7/8<br>9/16<br>1/4<br>51<br>17<br>3/8            | Weld        | 5<br>10<br>15<br>20<br>Note:<br>1. Soil capacity<br>2. Maximum ult<br>maximum insta<br>determined from<br>for the specific<br>3. Mechanical t<br>4. Maximum<br>verification tes<br>interaction.<br>5. Maximum In<br>"maximum torq<br>6. The allowab                      | 28.1<br>14.1<br>7.4<br>4.6<br>(P4) must<br>timate so<br>allation to<br>m Pa = P<br>pile mode<br>orsion ra<br>Torque F<br>ting that<br>stallation<br>ue per so<br>le soil ca                 | 15.0<br>9.8<br>6.0<br>4.0<br>st be dete<br>il capacit<br>orque ra<br>ult /2.0 b<br>el. See S<br>ting is the<br>2er Soil<br>was co<br>Torque<br>jil tests".<br>pacity un             | 8.1<br>6.3<br>4.5<br>3.3<br>ermined p<br>y is deter<br>ting for<br>vased on<br>vased vased | per Section 4<br>mined from<br>the specific<br>the correspo<br>1.5 for additi<br>m torsional<br>the maxim<br>to verify the<br>the lower o<br>RC must be             | .1.5 of this r<br>Pult = Kt x 1<br>pile model<br>nding maxin<br>onal informa<br>resistance o<br>num torque<br>e pile axial | report.<br>based on the<br>Allowable =<br>mum installati<br>tion.<br>f the steel sha<br>achieved du<br>capacity rela<br>anical torsion                 | e corresponding<br>soil capacity is<br>on torque rating<br>aft.<br>uring field axial<br>ated to pile-soil                    | TITLE: 10'<br>SEAL:                          | GOLIATH<br>Triple Helix Screw   | HTECH I<br>Pile of 2 7/E | PRESTIGE LL<br>8 (0.250 wall) with 3<br>DWG. NO<br>GTP127<br>DRAWN B<br>ARG<br>DESIGN B'<br>GOLIAT<br>CHECK BY<br>CPOC<br>APP BY:<br>CPOC<br>OTHER N<br>-<br>DATE : | NE a 17", 17" and 17" Hel a <b>8171717-10FT</b> Y: /: HTECH                                     |
| B<br>C<br>D<br>F<br>G<br>H<br>I<br>J<br>K<br>L      | 17<br>4 1/4<br>3 PITCH<br>3/8<br>1<br>1 1/2<br>2 7/8<br>9/16<br>1/4<br>51<br>17                   | Weld        | 5<br>10<br>15<br>20<br>Note:<br>1. Soil capacity<br>2. Maximum ult<br>maximum insta<br>determined fron<br>for the specific<br>3. Mechanical t<br>4. Maximum<br>verification tes<br>interaction.<br>5. Maximum Int<br>"maximum torq<br>6. The allowab<br>3 of Section 4." | 28.1<br>14.1<br>7.4<br>4.6<br>(P4) must<br>timate so<br>allation to<br>n Pa = P<br>pile mode<br>orsion rai<br>Torque F<br>ting that<br>stallation<br>ue per so<br>le soil ca<br>1.5 of this | 15.0<br>9.8<br>6.0<br>4.0<br>st be dete<br>il capacit<br>orque ra<br>ult /2.0 b<br>el. See S<br>ting is the<br>Per Soil<br>was co<br>Torque<br>il tests".<br>pacity um<br>report, v | 8.1<br>6.3<br>4.5<br>3.3<br>ermined p<br>y is deter<br>ting for<br>based on<br>tection 4.<br>e maximu<br>Tests is<br>inducted<br>rating is<br>uder the I<br>when app   | per Section 4<br>mined from<br>the specific<br>the correspo<br>1.5 for additi<br>m torsional<br>the maxin<br>to verify the<br>the lower o<br>RC must be<br>licable. | .1.5 of this r<br>Pult = Kt x 1<br>pile mode<br>nding maxir<br>onal informa<br>resistance o<br>um torque<br>e pile axial   | eport.<br>based on the<br>Allowable =<br>num installati<br>tion.<br>f the steel sha<br>achieved du<br>capacity rela<br>anical torsion<br>in accordance | e corresponding<br>soil capacity is<br>on torque rating<br>aft.<br>uring field axial<br>ated to pile-soil<br>rating" and the | TITLE: 10'<br>SEAL:<br>FORMAT : A<br>SCALE : | GOLIATH<br>Triple Helix Screw   | HTECH I<br>Pile of 2 7/E | PRESTIGE LL<br>8 (0.250 wall) with 3<br>DWG. NO<br>GTP127<br>DRAWN B<br>ARG<br>DESIGN B'<br>GOLIAT<br>CHECK BY<br>CPOC<br>APP BY:<br>CPOC<br>OTHER N<br>-           | NE a 17", 17" and 17" Hel a 17", 17" and 17" Hel a 8171717-10FT Y: /: HTECH C): -19 PAGE: 1 DE: |