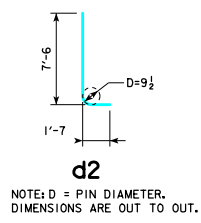


REVISED 02-2017 - ADDED "LRFD P<sub>u</sub> STRENGTH I, DES. LOAD (KIPS)" TO "PILING (HP10x57)" COLUMN HEADING IN THE TABLE ON THE LEFT SIDE OF THE SHEET.  
 CHANGED VERTICAL CLEARANCE OF REBAR "f2" TO TOP OF PIER FOOTING TO 3" WAS 2".

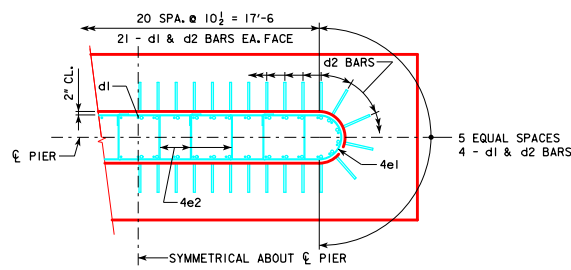
| H<br>IN<br>FT. | C - C<br>ABUT.<br>BRG. | PILING (HP10x57) |  | FOOTING SIZE   |
|----------------|------------------------|------------------|--|----------------|
|                |                        | NO. &<br>LAYOUT  | LRFD P <sub>u</sub> ,<br>STRENGTH I,<br>DES. LOAD (KIPS) |                |
| 16 TO 18       | 160'-0                 | 10A              | 206  | 4' x 8' x 25'  |
|                | 180'-0                 | 11A              | 208  |                |
|                | 200'-0                 | 12A              | 204  |                |
|                | 220'-0                 | 13A              | 205  |                |
|                | 240'-0                 | 14A              | 204  |                |
|                | 260'-0                 | 14A              | 218  |                |
|                | 280'-0                 | 16A              | 213  |                |
|                | 300'-0                 | 16C              | 218  |                |
|                | 320'-0                 | 17A              | 215  |                |
|                | 340'-0                 | 17B              | 213  |                |
| 19 TO 21       | 160'-0                 | 10A              | 213  | 4' x 8' x 25'  |
|                | 180'-0                 | 11A              | 215  |                |
|                | 200'-0                 | 12A              | 211  |                |
|                | 220'-0                 | 13A              | 211  |                |
|                | 240'-0                 | 14A              | 210  |                |
|                | 260'-0                 | 15A              | 215  |                |
|                | 280'-0                 | 16B              | 214  |                |
|                | 300'-0                 | 16D              | 220  |                |
|                | 320'-0                 | 17B              | 208  |                |
|                | 340'-0                 | 17B              | 217  |                |
| 22 TO 24       | 160'-0                 | 10B              | 215  | 4' x 9' x 25'  |
|                | 180'-0                 | 11B              | 216  |                |
|                | 200'-0                 | 12B              | 212  |                |
|                | 220'-0                 | 13B              | 212  |                |
|                | 240'-0                 | 14B              | 210  |                |
|                | 260'-0                 | 15B              | 215  |                |
|                | 280'-0                 | 16B              | 218  |                |
|                | 300'-0                 | 16F              | 209  |                |
|                | 320'-0                 | 17B              | 212  |                |
|                | 340'-0                 | 18A              | 211  |                |
| 25 TO 27       | 160'-0                 | 10C              | 218  | 4' x 10' x 25' |
|                | 180'-0                 | 11C              | 218  |                |
|                | 200'-0                 | 12C              | 213  |                |
|                | 220'-0                 | 13C              | 213  |                |
|                | 240'-0                 | 14C              | 211  |                |
|                | 260'-0                 | 15C              | 215  |                |
|                | 280'-0                 | 16C              | 217  |                |
|                | 300'-0                 | 16F              | 212  |                |
|                | 320'-0                 | 17B              | 215  |                |
|                | 340'-0                 | 18A              | 214  |                |
| 28 TO 30       | 160'-0                 | 11C              | 210  | 4' x 10' x 25' |
|                | 180'-0                 | 12C              | 206  |                |
|                | 200'-0                 | 12C              | 218  |                |
|                | 220'-0                 | 13C              | 217  |                |
|                | 240'-0                 | 14C              | 214  |                |
|                | 260'-0                 | 15C              | 218  |                |
|                | 280'-0                 | 16D              | 217  |                |
|                | 300'-0                 | 16F              | 215  |                |
|                | 320'-0                 | 17B              | 217  |                |
|                | 340'-0                 | 18A              | 216  |                |
| 31 TO 33       | 160'-0                 | 11D              | 212  | 4' x 11' x 25' |
|                | 180'-0                 | 12D              | 207  |                |
|                | 200'-0                 | 12D              | 219  |                |
|                | 220'-0                 | 13D              | 218  |                |
|                | 240'-0                 | 14D              | 215  |                |
|                | 260'-0                 | 15D              | 218  |                |
|                | 280'-0                 | 16E              | 216  |                |
|                | 300'-0                 | 16F              | 217  |                |
|                | 320'-0                 | 17B              | 219  |                |
|                | 340'-0                 | 18A              | 218  |                |
| 34 TO 36       | 160'-0                 | 11E              | 213  | 4' x 11' x 27' |
|                | 180'-0                 | 12E              | 209  |                |
|                | 200'-0                 | 13E              | 204  |                |
|                | 220'-0                 | 13E              | 218  |                |
|                | 240'-0                 | 14E              | 215  |                |
|                | 260'-0                 | 15E              | 218  |                |
|                | 280'-0                 | 16F              | 208  |                |
|                | 300'-0                 | 16F              | 220  |                |
|                | 320'-0                 | 18A              | 211  |                |
|                | 340'-0                 | 19A              | 213  |                |

| H<br>IN<br>FT. | C - C<br>ABUT.<br>BRG. | PILING (HP10x57) |  | FOOTING SIZE   |
|----------------|------------------------|------------------|--|----------------|
|                |                        | NO. &<br>LAYOUT  | LRFD P <sub>u</sub> ,<br>STRENGTH I,<br>DES. LOAD (KIPS) |                |
| 37 TO 40       | 160'-0                 | 12F              | 200  | 4' x 12' x 27' |
|                | 180'-0                 | 12F              | 211  |                |
|                | 200'-0                 | 13F              | 212  |                |
|                | 220'-0                 | 14F              | 214  |                |
|                | 240'-0                 | 15F              | 201  |                |
|                | 260'-0                 | 15F              | 213  |                |
|                | 280'-0                 | 16F              | 211  |                |
|                | 300'-0                 | 17B              | 214  |                |
|                | 320'-0                 | 18A              | 215  |                |
|                | 340'-0                 | 19A              | 218  |                |

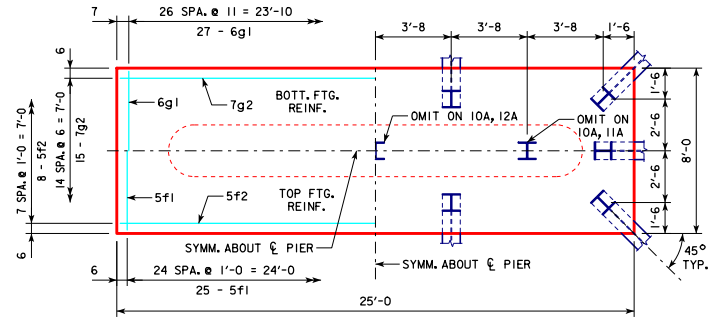


| FOOTING SIZE  | REINFORCING STEEL (ONE FOOTING) |                     |        | TOTAL WEIGHT (L.B.) | STRUCTURAL CONCRETE (CY) |               |
|---------------|---------------------------------|---------------------|--------|---------------------|--------------------------|---------------|
|               | BAR                             | NO., SIZE & SPACING | LENGTH |                     |                          | WEIGHT (L.B.) |
| 4' x 8' x 25' | d2                              | 50 - #9 AS SHOWN    | 9'-1   | 1544                | 3017                     | 29.6          |
|               | f1                              | 25 - #5 @ 1'-0      | 7'-8   | 200                 |                          |               |
|               | f2                              | 8 - #5 @ 1'-0       | 24'-8  | 206                 |                          |               |
|               | g1                              | 27 - #6 @ 0'-11     | 7'-8   | 311                 |                          |               |
|               | g2                              | 15 - #7 @ 0'-6      | 24'-8  | 756                 |                          |               |
|               | d2                              | 50 - #9 AS SHOWN    | 9'-1   | 1544                |                          |               |
| f1            | 25 - #5 @ 1'-0                  | 8'-8                | 226    |                     |                          |               |
| f2            | 9 - #5 @ 1'-0                   | 24'-8               | 232    |                     |                          |               |
| g1            | 28 - #7 @ 0'-10 1/2             | 8'-8                | 496    |                     |                          |               |
| g2            | 15 - #7 @ 0'-7                  | 24'-8               | 756    |                     |                          |               |
| d2            | 50 - #9 AS SHOWN                | 9'-1                | 1544   | 3532                | 37.0                     |               |
| f1            | 25 - #5 @ 1'-0                  | 9'-8                | 252    |                     |                          |               |
| f2            | 10 - #5 @ 1'-0                  | 24'-8               | 257    |                     |                          |               |
| g1            | 28 - #8 @ 0'-10 1/2             | 9'-8                | 723    |                     |                          |               |
| g2            | 15 - #7 @ 0'-8                  | 24'-8               | 756    |                     |                          |               |
| d2            | 50 - #9 AS SHOWN                | 9'-1                | 1544   |                     |                          | 4387          |
| f1            | 27 - #5 @ 1'-0                  | 10'-8               | 278    |                     |                          |               |
| f2            | 11 - #5 @ 1'-0                  | 26'-8               | 283    |                     |                          |               |
| g1            | 34 - #9 @ 0'-9 1/2              | 10'-8               | 968    |                     |                          |               |
| g2            | 14 - #9 @ 0'-9 1/2              | 26'-8               | 1269   |                     |                          |               |
| d2            | 50 - #9 AS SHOWN                | 9'-1                | 1544   | 4876                | 48.0                     |               |
| f1            | 27 - #5 @ 1'-0                  | 11'-8               | 329    |                     |                          |               |
| f2            | 12 - #5 @ 1'-0                  | 26'-8               | 334    |                     |                          |               |
| g1            | 33 - #9 @ 0'-9 1/2              | 11'-8               | 1309   |                     |                          |               |
| g2            | 15 - #9 @ 0'-9 1/2              | 26'-8               | 1360   |                     |                          |               |

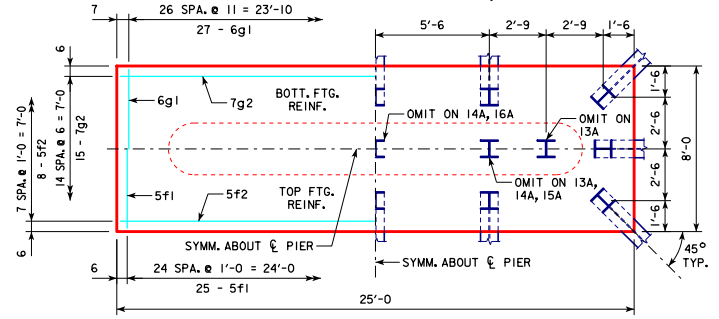
NOTE: P<sub>u</sub> STRENGTH I DESIGN LOAD (KIPS) IS NOT THE VALUE USED IN THE FIELD FOR DRIVING PILES.



**d2 BAR LAYOUT**  
 (SEE SECTION A-A ON SHEET RS40-116-14.)



**4'-0 x 8'-0 x 25'-0 FOR 10A, 11A & 12A**

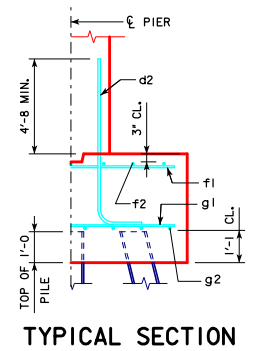


**4'-0 x 8'-0 x 25'-0 FOR 13A, 14A, 15A & 16A**

NOTE: THE REINFORCING STEEL QUANTITY IS TO BE INCLUDED ON THE SUMMARY QUANTITIES SHEET IN THE PLAN.  
 NOTE: THE CONCRETE QUANTITY IS TO BE INCLUDED ON THE SUMMARY QUANTITIES SHEET IN THE PLAN.  
 NOTE: THE PILE TYPE IS TO BE INCLUDED ON THE SUMMARY QUANTITIES SHEET IN THE PLAN.

**FOOTING NOTES:**

THESE FOOTINGS ARE DESIGNED AND DETAILED TO BE USED WITH THE CAP AND COLUMN DETAILS OF THE TEE PIERS AS SHOWN ON SHEET RS40-116-14.  
 BATTER PILES IN EXTERIOR ROWS 1:4 IN THE DIRECTION SHOWN.  
 STEEL PILING USED AS POINT BEARING SHALL HAVE A MINIMUM DISTANCE OF APPROXIMATELY 10 FEET FROM BOTTOM OF FOOTING TO TOP OF BEARING ROCK. THE PILE LAYOUTS ARE SUCH THAT THE DISTANCE CENTER TO CENTER OF ADJACENT PILING SHALL NOT EXCEED 8'-0.  
 PIER PILES SHALL BE DRIVEN TO VALUES SHOWN IN DESIGN PLANS.



**TYPICAL SECTION**

|                                 |                                 |  |  |   |
|---------------------------------|---------------------------------|--|--|---|
| 02-2017<br>LATEST REVISION DATE | <br>APPROVED BY BRIDGE ENGINEER | <br>STANDARD DESIGN - 40' ROADWAY, 3 SPAN BRIDGES<br><b>ROLLED STEEL BEAM BRIDGES</b><br>OCTOBER, 2014 | <b>TEE PIER-HP10x57 SRL-2<br/>                 STEEL PILE FOOTINGS</b> | <b>RS40-121-14</b><br>0° SKEW - SHEET 1 |
|                                 |                                 |  |  |   |