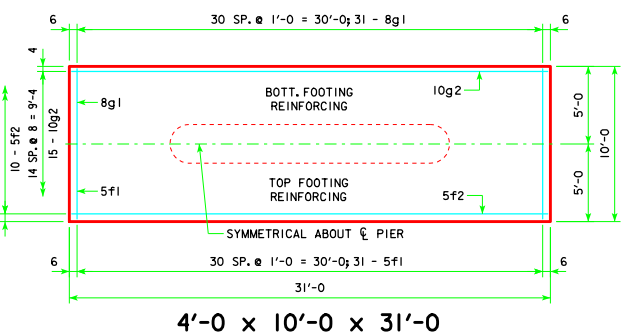
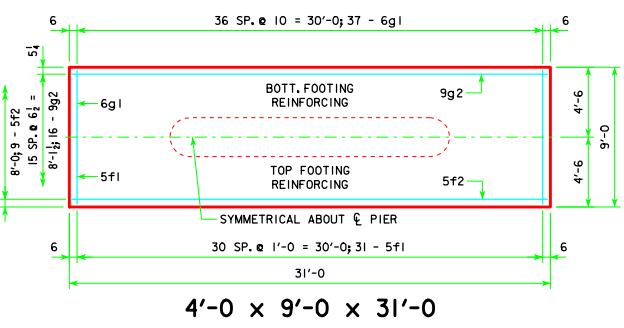
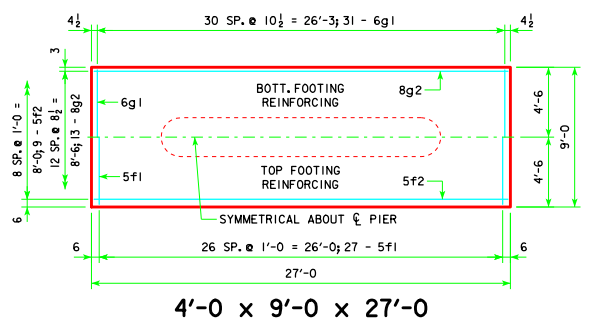
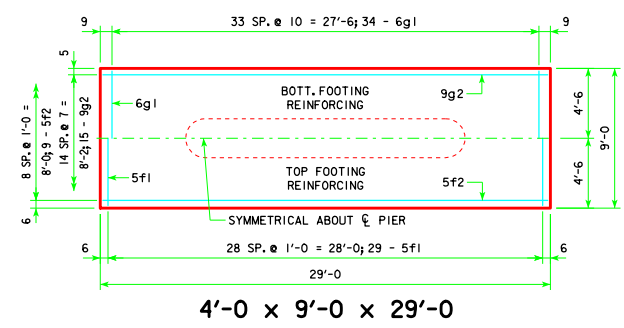
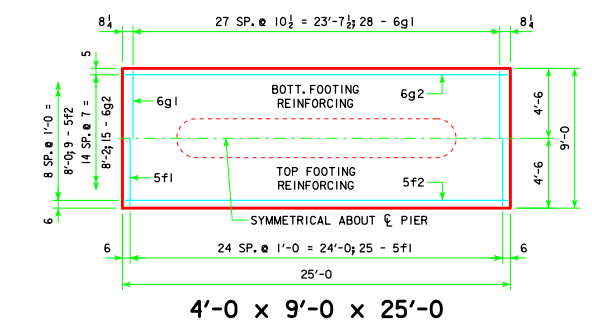
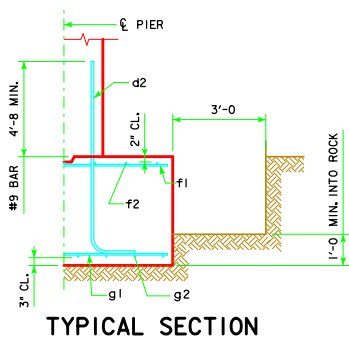
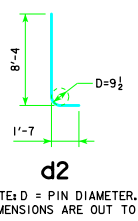
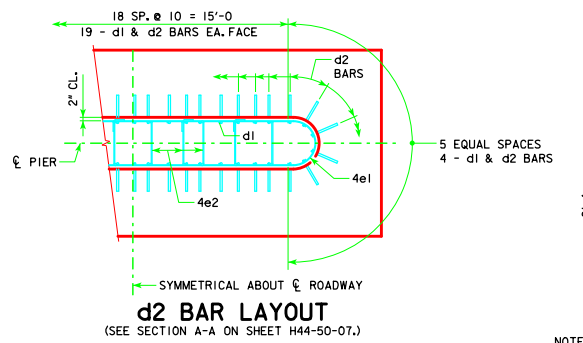


REVISED 04-12 - EXCAVATION LIMIT WAS CHANGED TO 3'-0".

| H IN FT. | CL - CL ABUT. BRG. | FOOTING SIZE |
|----------|--------------------|----------------|
| 25 TO 27 | 138'-10" | 4' x 9' x 25' |
| | 151'-4" | 4' x 9' x 27' |
| | 163'-10" | 4' x 9' x 29' |
| | 176'-4" | 4' x 9' x 31' |
| 28 TO 30 | 138'-10" | 4' x 9' x 25' |
| | 151'-4" | 4' x 9' x 27' |
| | 163'-10" | 4' x 9' x 29' |
| | 176'-4" | 4' x 9' x 31' |
| 31 TO 33 | 138'-10" | 4' x 9' x 25' |
| | 151'-4" | 4' x 9' x 27' |
| | 163'-10" | 4' x 9' x 29' |
| | 176'-4" | 4' x 9' x 31' |
| 34 TO 36 | 138'-10" | 4' x 9' x 27' |
| | 151'-4" | 4' x 9' x 29' |
| | 163'-10" | 4' x 9' x 31' |
| | 176'-4" | 4' x 9' x 31' |
| 37 TO 40 | 138'-10" | 4' x 9' x 27' |
| | 151'-4" | 4' x 9' x 29' |
| | 163'-10" | 4' x 9' x 31' |
| | 176'-4" | 4' x 9' x 31' |
| | 201'-4" | 4' x 10' x 31' |
| | 213'-10" | 4' x 10' x 31' |
| | 226'-4" | 4' x 10' x 31' |
| | 243'-0" | 4' x 10' x 31' |



FOOTING NOTES:
 THESE SPREAD FOOTINGS ARE DESIGNED AND DETAILED TO BE USED WITH THE CAP AND COLUMN DETAILS OF THE TEE PIERS AS SHOWN ON SHEET H44-50-07.
 THESE SPREAD FOOTINGS SHALL EXTEND AT LEAST 6 INCHES INTO SUITABLE FOUNDATION ROCK AND THE LAST 6 INCHES OF ROCK EXCAVATION SHALL BE TO NEAT LINES OF MASONRY. THE FOUNDATION ROCK SHALL HAVE A MINIMUM LRFD NOMINAL BEARING RESISTANCE OF 30 KIIPS PER SQUARE FOOT (ALLOWABLE BEARING VALUE OF AT LEAST 5 TONS PER SQUARE FOOT).



| FOOTING SIZE | REINFORCING STEEL (ONE FOOTING) | | | | TOTAL WEIGHT (L.B.) | STRUCTURAL CONCRETE (CY) |
|----------------|---------------------------------|----------------------|--------|---------------|---------------------|--------------------------|
| | BAR | NO., SIZE & SPACING | LENGTH | WEIGHT (L.B.) | | |
| 4' x 9' x 25' | d2 | 46 - #9 AS SHOWN | 9'-11" | 1551 | 2929 | 33.3 |
| | f1 | 25 - #5 @ 1'-0" | 8'-8" | 226 | | |
| | f2 | 9 - #5 @ 1'-0" | 24'-8" | 232 | | |
| | g1 | 28 - #6 @ 0'-10 1/2" | 8'-8" | 364 | | |
| | g2 | 15 - #6 @ 0'-7" | 24'-8" | 556 | | |
| 4' x 9' x 27' | d2 | 46 - #9 AS SHOWN | 9'-11" | 1551 | 3375 | 36.0 |
| | f1 | 27 - #5 @ 1'-0" | 8'-8" | 244 | | |
| | f2 | 9 - #5 @ 1'-0" | 26'-8" | 250 | | |
| | g1 | 31 - #6 @ 0'-10 1/2" | 8'-8" | 404 | | |
| | g2 | 13 - #8 @ 0'-8" | 26'-8" | 926 | | |
| 4' x 9' x 29' | d2 | 46 - #9 AS SHOWN | 9'-11" | 1551 | 3987 | 38.7 |
| | f1 | 29 - #5 @ 1'-0" | 8'-8" | 262 | | |
| | f2 | 9 - #5 @ 1'-0" | 28'-8" | 269 | | |
| | g1 | 34 - #6 @ 0'-10" | 8'-8" | 443 | | |
| | g2 | 15 - #9 @ 0'-7" | 28'-8" | 1462 | | |
| 4' x 9' x 31' | d2 | 46 - #9 AS SHOWN | 9'-11" | 1551 | 4269 | 41.3 |
| | f1 | 31 - #5 @ 1'-0" | 8'-8" | 280 | | |
| | f2 | 9 - #5 @ 1'-0" | 30'-8" | 288 | | |
| | g1 | 37 - #6 @ 0'-10" | 8'-8" | 482 | | |
| | g2 | 16 - #9 @ 0'-6 1/2" | 30'-8" | 1668 | | |
| 4' x 10' x 31' | d2 | 46 - #9 AS SHOWN | 9'-11" | 1551 | 4963 | 45.9 |
| | f1 | 31 - #5 @ 1'-0" | 9'-8" | 313 | | |
| | f2 | 10 - #5 @ 1'-0" | 30'-8" | 320 | | |
| | g1 | 31 - #8 @ 1'-0" | 9'-8" | 800 | | |
| | g2 | 15 - #10 @ 0'-8" | 30'-8" | 1979 | | |

LATEST REVISION DATE

04-12

APPROVED BY BRIDGE ENGINEER

Thomas E. M. Dwyer

Iowa Department of Transportation
 Highway Division

STANDARD DESIGN - 44' ROADWAY, THREE SPAN BRIDGE

PRETENSIONED PRESTRESSED CONCRETE BEAM BRIDGES

MARCH, 2007

H44-57-07

TEE PIER - SPREAD FOOTINGS

0° SKEW - H=25' TO 40'