28-OCT-09 GEORGIA DEPARTMENT OF TRANSPORTATION PROB. NO. 0001
17:48:45 PRECONSTUCTION DIVISION - OFFICE OF BRIDGE & STRUCTURAL DESIGN
THE ANALYSIS AND DESIGN OF PIERS FOR BRIDGES - V 4.2.07 - AASHTO SPECS 1984 INTERIM
REVISED: JUNE 30, 2008
40' CURB-CURB; 6 BEAMS; 137' SPAN; 60' TALL; BRIDGE 13 ; PIER 9

DESIGN DATA

| DESIGN OPTIONS | NO. CAN | NO. COL | NO. LLC | SKEW ANG D M S | F'C PSI | FC PSI | N | FY PSI | FS PSI | EC KSI | ES KSI | CONC. STRAIN | Z FACT | * MAIN SIZE | * STR SIZ | * MAX TOP | MAX BOT | CAP REINFORCING STEEL MIN SIZE | MIN NO. | * TOP CL. | * MIN S.SP | * CAP DEPTH INCR. | BOT CL. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| D D D L | 2 | 1 | 13 | 0-00-00 | 3500. | 1400. | 8. | 60000. | 24000. | 3409. | 29000. | 0.0030 | 170. | 11 | 5 | 16 | 16 | 11 | 2 | 2.00 | 4.00 | 3.00 | 2.00 |

| COLUMN REINFORCING STEEL MIN.P | MAX.P | CL.SP. | CLEAR | R MODE | KL COEF | OC | OF | CM | BD1 | BD2 | IMPACT % | SOIL WT KCF | ALL.S.P. KSF | MIN PL SP | MAX PL SP | EDGE DIST | PILE DEPTH | REBAR CLEAR | ALL.PILE CAPACITY | ALL.PILE UPLIFT | I P |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1.00 | 8.00 | 2.50 | 3.750 | 2 | 2.00 | 0.70 | 0.90 | 1.00 | 1.00 | 0.75 | 18.87 | 0.120 | 0.000 | 3.00 | 9.00 | 1.250 | 1.000 | 3.000 | 235.000 | -9.999 | |

CAP DATA

| CN | C | L | A | DE | BC | BE | DH | LH | XB1 | XB2 | XB3 | XB4 | XB5 | XB6 | XB7 | XB8 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 11 | L | 21.625 | 6.000 | 4.000 | 6.000 | 6.000 | 4.000 | 15.625 | 17.998 | 7.199 | 4.799 | | | | | |
| 12 | 2 SAME AS CANTILEVER 1 | | | | | | | | | | | | | | | |

COLUMN DATA

| CN | P | I | T | S | HT | A | DT | BT | DB | BB | DL | FLEX | ND | NB | SZ | ND | NB | SZ | ND | NB | SZ | ND | NB | SZ | SLOPE | EP | AP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 21 | 1 | C | T | | 60.000 | 0.000 | 12.000 | 6.000 | 12.000 | 6.000 | 6.000 | 0.000 | 12 | 6 | 11 | 12 | 6 | 11 | 34 | 16 | 11 | 34 | 16 | 11 | 0.000 | 0.000 | 0.000 |

FOOTING DATA

| CN | S/P | B | D | T | DEL.B | DEL.D | DEL.T | R.B/D | R.D/B | S.HT. | NP | SYM. | BP | DP | SET. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 31 | P | 14.000 | 14.000 | 3.000 | 0.500 | 0.500 | 0.250 | 1.000 | 1.000 | 2.500 | 4 | 3 | 0.000 | 0.000 | 0.000 |

GROUP II WIND

| SUPERSTRUCTURE AREA*STD. TRANS. | LONG. | WIND FT1 | FL1 | FT2 | FL2 | FT3 | FL3 | FT4 | FL4 | FT5 | FL5 | * WIND FORCE ARM APT | APL | * WIND ON PIER PT | PL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1336. | 2672. | 1 | 50 | 0 | 44 | 6 | 41 | 12 | 33 | 16 | 17 | 19 | 7.375 | 7.375 | 7.676 | 22.712 |

GROUP III WIND

| STD. * WIND FT1 | FL1 | FT2 | FL2 | FT3 | FL3 | FT4 | FL4 | FT5 | FL5 | * STD. * WIND FT1 | FL1 | FT2 | FL2 | FT3 | FL3 | FT4 | FL4 | FT5 | FL5 | * LENGTHS OF LL TRANS. | LONGI. | * WIND ON LL ARMS APT | APL |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 50 | 0 | 44 | 6 | 41 | 12 | 33 | 16 | 17 | 19 | 1 | 100 | 0 | 88 | 12 | 82 | 24 | 66 | 32 | 34 | 38 | 137.0 | 274.0 | 15.583 | 15.583 |

MISCELLANEOUS FORCES

| CENTRI. FT | TRACTION FORCE AND ARMS FL | APT | APL | EXPANSION COEFFICIENT | SHRINKAGE COEFFICIENT | STREAM FLOW PT | PL |
|---|---|---|---|---|---|---|---|
| 6.184 | 9.668 | 15.583 | 15.583 | 0.00018000 | 0.00044000 | 0.000 | 0.000 |

DEAD LOAD SUPERSTRUCTURE AND LIVE LOAD CASES

| I.D. | NL | P1 | P2 | P3 | P4 | P5 | P6 | P7 | P8 | P9 | P10 | P11 | P12 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| D.L. | 0 | 260.319 | 295.285 | 0.000 | 590.570 | 0.000 | 295.285 | 260.319 | | | | | |
| LL 1 | 1 | 79.021 | 56.408 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | | | | | |
| LL 2 | 2 | 79.021 | 97.805 | 0.000 | 94.032 | 0.000 | 0.000 | 0.000 | | | | | |
| LL 3 | 3 | 79.021 | 97.805 | 0.000 | 188.075 | 0.000 | 41.387 | 0.000 | | | | | |
| LL 4 | 1 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 56.418 | 79.011 | | | | | |
| LL 5 | 2 | 0.000 | 0.000 | 0.000 | 94.041 | 0.000 | 97.805 | 79.011 | | | | | |
| LL 6 | 3 | 0.000 | 41.396 | 0.000 | 188.075 | 0.000 | 97.805 | 79.011 | | | | | |
| LL 7 | 1 | 0.000 | 28.218 | 0.000 | 107.210 | 0.000 | 0.000 | 0.000 | | | | | |
| LL 8 | 2 | 54.565 | 107.211 | 0.000 | 109.082 | 0.000 | 0.000 | 0.000 | | | | | |
| LL 9 | 3 | 54.565 | 107.211 | 0.000 | 189.947 | 0.000 | 54.565 | 0.000 | | | | | |
| LL10 | 2 | 0.000 | 41.396 | 0.000 | 188.075 | 0.000 | 41.387 | 0.000 | | | | | |
| LL11 | 3 | 79.021 | 97.805 | 0.000 | 188.075 | 0.000 | 41.387 | 0.000 | | | | | |
| LL12 | 2 | 79.021 | 56.408 | 0.000 | 0.000 | 0.000 | 56.418 | 79.011 | | | | | |
| LL13 | 3 | 79.021 | 97.805 | 0.000 | 94.032 | 0.000 | 56.418 | 79.011 | | | | | |

COLUMN MOMENTS(KIP-FEET), SHEARS(KIPS), REACTIONS(KIPS)

| LOAD | COL | TRANSVERSE PC | MT | V | MB | RF | ML | MR | * LONGITUDINAL MT | V | MB | MF |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| UNIT F.AT CL.CAP | 1 | 0.000 | -6.000 | 1.000 | 60.000 | 0.000 | 0.000 | 0.000 | 6.000 | 1.000 | 60.000 | 60.000 |
| DEAD LOAD TOTAL | 1 | 1956.928<br>2540.128 | 0.000 | 0.000 | 0.000 | 2540.128 | 9095.791 | -9095.791 | 0.000 | 0.000 | 0.000 | 0.000 |
| TRAC. FORCE 1 LN | 1 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | -208.664 | -9.668 | -730.736 | -730.736 |
| CENT. FORCE 1 LN | 1 | 0.000 | -133.469 | 6.184 | 467.405 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| WIND ON SUBSTR. | 1 | 0.000 | -46.056 | 7.676 | 460.560 | 0.000 | 0.000 | 0.000 | -136.272 | -22.712 | -1362.720 | -1362.720 |
| GROUP 2 WIND 1 1 | 1 | 0.000 | -939.506 | 74.476 | 4961.210 | 0.000 | 0.000 | 0.000 | -136.272 | -22.712 | -1362.720 | -1362.720 |
| GROUP 2 WIND 1 2 | 1 | 0.000 | -939.506 | 74.476 | 4961.210 | 0.000 | 0.000 | 0.000 | 136.272 | 22.712 | 1362.720 | 1362.720 |

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GROUP 2 WIND 2 1 | 1 | 0.000 | -832.292 | 66.460 | 4421.132 | 0.000 | 0.000 | 0.000 | -350.700 | -38.744 | -2442.876 | -2442.876 |
| GROUP 2 WIND 2 2 | 1 | 0.000 | -832.292 | 66.460 | 4421.132 | 0.000 | 0.000 | 0.000 | 350.700 | 38.744 | 2442.876 | 2442.876 |
| GROUP 2 WIND 3 1 | 1 | 0.000 | -778.685 | 62.452 | 4151.093 | 0.000 | 0.000 | 0.000 | -565.128 | -54.776 | -3523.032 | -3523.032 |
| GROUP 2 WIND 3 2 | 1 | 0.000 | -778.685 | 62.452 | 4151.093 | 0.000 | 0.000 | 0.000 | 565.128 | 54.776 | 3523.032 | 3523.032 |
| GROUP 2 WIND 4 1 | 1 | 0.000 | -635.733 | 51.764 | 3430.989 | 0.000 | 0.000 | 0.000 | -708.080 | -65.464 | -4243.136 | -4243.136 |
| GROUP 2 WIND 4 2 | 1 | 0.000 | -635.733 | 51.764 | 3430.989 | 0.000 | 0.000 | 0.000 | 708.080 | 65.464 | 4243.136 | 4243.136 |
| GROUP 2 WIND 5 1 | 1 | 0.000 | -349.829 | 30.388 | 1990.781 | 0.000 | 0.000 | 0.000 | -815.294 | -73.480 | -4783.214 | -4783.214 |
| GROUP 2 WIND 5 2 | 1 | 0.000 | -349.829 | 30.388 | 1990.781 | 0.000 | 0.000 | 0.000 | 815.294 | 73.480 | 4783.214 | 4783.214 |
| GROUP 3 WIND 1 1 | 1 | 0.000 | -577.539 | 36.043 | 2523.850 | 0.000 | 0.000 | 0.000 | -40.882 | -6.814 | -408.816 | -408.816 |
| GROUP 3 WIND 1 2 | 1 | 0.000 | -577.539 | 36.043 | 2523.850 | 0.000 | 0.000 | 0.000 | 40.882 | 6.814 | 408.816 | 408.816 |
| GROUP 3 WIND 2 1 | 1 | 0.000 | -509.892 | 31.994 | 2237.568 | 0.000 | 0.000 | 0.000 | -176.175 | -14.911 | -981.380 | -981.380 |
| GROUP 3 WIND 2 2 | 1 | 0.000 | -509.892 | 31.994 | 2237.568 | 0.000 | 0.000 | 0.000 | 176.175 | 14.911 | 981.380 | 981.380 |
| GROUP 3 WIND 3 1 | 1 | 0.000 | -476.069 | 29.970 | 2094.427 | 0.000 | 0.000 | 0.000 | -311.468 | -23.009 | -1553.943 | -1553.943 |
| GROUP 3 WIND 3 2 | 1 | 0.000 | -476.069 | 29.970 | 2094.427 | 0.000 | 0.000 | 0.000 | 311.468 | 23.009 | 1553.943 | 1553.943 |
| GROUP 3 WIND 4 1 | 1 | 0.000 | -385.873 | 24.571 | 1712.718 | 0.000 | 0.000 | 0.000 | -401.664 | -28.407 | -1935.653 | -1935.653 |
| GROUP 3 WIND 4 2 | 1 | 0.000 | -385.873 | 24.571 | 1712.718 | 0.000 | 0.000 | 0.000 | 401.664 | 28.407 | 1935.653 | 1935.653 |
| GROUP 3 WIND 5 1 | 1 | 0.000 | -205.482 | 13.774 | 949.300 | 0.000 | 0.000 | 0.000 | -469.310 | -32.456 | -2221.934 | -2221.934 |
| GROUP 3 WIND 5 2 | 1 | 0.000 | -205.482 | 13.774 | 949.300 | 0.000 | 0.000 | 0.000 | 469.310 | 32.456 | 2221.934 | 2221.934 |
| LIVE LOAD LL 1 | 1 | 135.429 | -2031.370 | 0.000 | 2031.370 | 135.429 | 2031.370 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |

COLUMN MOMENTS(KIP-FEET), SHEARS(KIPS), REACTIONS(KIPS)

| | | TRANSVERSE | | | | | | * | LONGITUDINAL | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| LOAD | COL | PC | MT | V | MB | RF | ML | MR | MT | V | MB | MF |
| LIVE LOAD LL 2 | 1 | 270.858 | -2478.416 | 0.000 | 2478.416 | 270.858 | 2478.416 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| LIVE LOAD LL 3 | 1 | 365.659 | -1828.330 | 0.000 | 1828.330 | 365.659 | 2230.574 | -402.244 | 0.000 | 0.000 | 0.000 | 0.000 |
| LIVE LOAD LL 4 | 1 | 135.429 | 2031.298 | 0.000 | -2031.298 | 135.429 | 0.000 | -2031.298 | 0.000 | 0.000 | 0.000 | 0.000 |
| LIVE LOAD LL 5 | 1 | 270.857 | 2478.236 | 0.000 | -2478.236 | 270.857 | 0.000 | -2478.236 | 0.000 | 0.000 | 0.000 | 0.000 |
| LIVE LOAD LL 6 | 1 | 365.658 | 1828.081 | 0.000 | -1828.081 | 365.658 | 402.332 | -2230.413 | 0.000 | 0.000 | 0.000 | 0.000 |
| LIVE LOAD LL 7 | 1 | 135.428 | -304.726 | 0.000 | 304.726 | 135.428 | 304.726 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| LIVE LOAD LL 8 | 1 | 270.858 | -2139.832 | 0.000 | 2139.832 | 270.858 | 2139.832 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 |
| LIVE LOAD LL 9 | 1 | 365.659 | -1395.526 | 0.000 | 1395.526 | 365.659 | 1925.849 | -530.323 | 0.000 | 0.000 | 0.000 | 0.000 |
| LIVE LOAD LL10 | 1 | 270.858 | -0.097 | 0.000 | 0.097 | 270.858 | 447.035 | -446.938 | 0.000 | 0.000 | 0.000 | 0.000 |
| LIVE LOAD LL11 | 1 | 365.659 | -1828.330 | 0.000 | 1828.330 | 365.659 | 2230.574 | -402.244 | 0.000 | 0.000 | 0.000 | 0.000 |
| LIVE LOAD LL12 | 1 | 270.858 | -0.072 | 0.000 | 0.072 | 270.858 | 2031.370 | -2031.298 | 0.000 | 0.000 | 0.000 | 0.000 |
| LIVE LOAD LL13 | 1 | 365.658 | -402.406 | 0.000 | 402.406 | 365.658 | 2230.574 | -1828.168 | 0.000 | 0.000 | 0.000 | 0.000 |

CAP ANALYSIS AND DESIGN DATA

CAP MOMENTS AND SHEARS

| | MOMENTS(KIP-FEET) | | | | | | | ** | SHEARS(KIPS) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| POINT | D.L.TOT. | G1 MAX.+ | G1 MAX.- | G2 MAX.+ | G2 MAX.- | G3 MAX.+ | G3 MAX.- | | DL T.LT | DL T.RT | G1 + LT | G1 + RT | G1 - LT | G1 - RT |
| P 1 | -33.165 | -33.165 | -33.165 | -33.165 | -33.165 | -33.165 | -33.165 | | -18.944 | -357.359 | -18.944 | -357.359 | -18.944 | -528.914 |
| P 2 | -2773.841 | -2773.841 | -4008.862 | -2773.841 | -2773.841 | -2773.841 | -3513.374 | | -406.633 | -790.503 | -406.633 | -790.503 | -578.187 | -1174.392 |
| P 3 | -6664.212 | -6664.212 | -9741.518 | -6664.212 | -6664.212 | -6664.212 | -8506.910 | | -831.973 | -831.973 | -831.973 | -831.973 | -1215.862 | -1215.862 |
| C 1L | -11824.528 | -11824.528 | -17205.170 | -11824.528 | -11824.528 | -11824.528 | -15046.469 | | -888.133 | | -888.133 | | -1272.022 | |
| C 1R | -11824.528 | -11824.528 | -17204.777 | -11824.528 | -11824.528 | -11824.528 | -15046.235 | | | 888.133 | | 1272.000 | | 888.133 |
| P 5 | -6664.212 | -6664.212 | -9741.258 | -6664.212 | -6664.212 | -6664.212 | -8506.754 | | 831.973 | 831.973 | 1215.840 | 1215.840 | 831.973 | 831.973 |
| P 6 | -2773.841 | -2773.841 | -4008.706 | -2773.841 | -2773.841 | -2773.841 | -3513.281 | | 790.503 | 406.633 | 1174.371 | 578.165 | 790.503 | 406.633 |
| P 7 | -33.165 | -33.165 | -33.165 | -33.165 | -33.165 | -33.165 | -33.165 | | 357.359 | 18.944 | 528.892 | 18.944 | 357.359 | 18.944 |

CAP DESIGN DATA

| PT. | M+ UNF. K-FT. | M- UNF. K-FT. | TOP REINFORCE. AS | NO.SIZE | BOT.REINFORCE. AS | NO.SIZE | LEFT STIRRUPS M.SP. | AV/IN | BAR&SPAC | RIGHT STIRRUPS M.SP. | AV/IN | BAR&SPAC | D IN. | FC PSI | PS % | FS/FF RATIO | FS/FZ RATIO |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| P 1 | -25.511 | -25.511 | 3.12 | 2 # 11 | 3.12 | 2 # 11 | 0.00 | 0.000 | #5@ 0.00 | 24.00 | 0.060 | #5@10.33 | 59.15 | | 0.08 | 0.000 | 0.099 |
| P 2 | -2133.724 | -2702.596 | 11.68 | 8 # 11 | 3.12 | 2 # 11 | 24.00 | 0.060 | #5@10.33 | 24.00 | 0.154 | #5@ 4.04 | 81.25 | | 0.22 | 0.527 | 1.214 |
| P 3 | -5126.317 | -6543.777 | 24.16 | 16 # 11 | 3.12 | 2 # 11 | 24.00 | 0.115 | #5@ 5.38 | 24.00 | 0.115 | #5@ 5.38 | 96.00 | | 0.40 | 0.571 | 0.997 |
| C 1 | -9095.791 | -11574.207 | 44.25 | 29 # 11 | 3.12 | 2 # 11 | 24.00 | 0.129 | #5@ 4.81 | 24.00 | 0.129 | #5@ 4.81 | 96.00 | | 0.71 | 0.570 | 0.923 |
| P 5 | -5126.317 | -6543.657 | 24.16 | 16 # 11 | 3.12 | 2 # 11 | 24.00 | 0.115 | #5@ 5.38 | 24.00 | 0.115 | #5@ 5.38 | 96.00 | | 0.40 | 0.571 | 0.997 |
| P 6 | -2133.724 | -2702.524 | 11.68 | 8 # 11 | 3.12 | 2 # 11 | 24.00 | 0.154 | #5@ 4.04 | 24.00 | 0.060 | #5@10.33 | 81.25 | | 0.22 | 0.527 | 1.214 |

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P 7   -25.511   -25.512   3.12  2 # 11    3.12  2 # 11   24.00 0.060 #5@10.33   0.00 0.000 #5@ 0.00  59.15        0.08  0.000  0.099

NOTE: *** FS/FZ RATIO EXCEEDS 1.0! ***
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COLUMN ANALYSIS AND DESIGN OUTPUT

CRITICAL COLUMN LOADS

| CN | T B | GR | LLC | WC | R | E S | C F | S F | PF | MTF | MLF | PM | MTM | MLM | PU | MTU | MLU | PU/PM | B | D |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | T | 1 | LL 2 | 0.0 | | | C | | 3132.0 | -5727.7 | 0.0 | 3132.0 | 6162.9 | 2532.2 | 14353.0 | 28265.4 | 11613.8 | 4.586 | 72.00 | 144.00 |
| 1 | B | 3 | LL 3 | 5.1 | | | C | | 3777.5 | 5251.5 | -5453.4 | 3777.5 | 5636.8 | 7267.4 | 10266.1 | 15317.4 | 19748.3 | 2.717 | 72.00 | 144.00 |

COLUMN DESIGN DATA

| CN | T B | B FACE 1 NO.SIZE | B FACE 2 NO.SIZE | D FACE 3 NO.SIZE | D FACE 4 NO.SIZE | AS | PS | BD12 | BD | SUMPU | SUMPC | DEL.T | DEL.L | CM | R | PHIC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | T | 16 # 11 | 16 # 11 | 18 # 11 | 18 # 11 | 106.08 | 1.023 | 1.00 | 0.000 | 3511. | 49720. | 1.076 | 1.347 | 1.000 | 2 | 0.70 |
| 1 | B | 16 # 11 | 16 # 11 | 18 # 11 | 18 # 11 | 106.08 | 1.023 | 1.00 | 0.000 | 3398. | 49720. | 1.073 | 1.333 | 1.000 | 2 | 0.70 |

FOOTING 1 DESIGN LOADS

| F | G | LLID | WC | ES | C | S | P | MT | VT | ML | VL | P4 | P3 | P2 | P1 | MTF | VBF | VPF | LOAD |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 3 | LL 3 | 4.1 | | C | | 2847.741 | 4512.805 | 41.268 | -3908.641 | -54.511 | 201.482 | 120.030 | 211.961 | 293.413 | 194.851 | 36.247 | 38.387 | MAX.P1 |
| 1 | 3 | LL 3 | 1.1 | | C | | 3702.063 | 6921.117 | 68.561 | -3096.345 | -42.792 | 230.229 | 165.742 | 307.247 | 371.734 | 262.843 | 48.840 | 49.903 | MAX.MT |
| 1 | 3 | LL 3 | 1.1 | | C | | 3702.063 | 6921.117 | 68.561 | -3096.345 | -42.792 | 230.229 | 165.742 | 307.247 | 371.734 | 262.843 | 48.840 | 49.903 | MAX.VT |
| 1 | 3 | LL 3 | 3.1 | | C | | 3702.063 | 6362.867 | 60.666 | -4585.011 | -63.846 | 251.576 | 156.039 | 285.900 | 381.437 | 257.794 | 47.930 | 49.903 | MAX.VP |
| 1 | 3 | LL 3 | 4.1 | | C | | 3702.063 | 5866.646 | 53.648 | -5081.233 | -70.864 | 261.927 | 156.039 | 275.550 | 381.437 | 402.235 | 41.962 | 49.903 | MAX.ML |
| 1 | 3 | LL 3 | 4.1 | | C | | 3702.063 | 5866.646 | 53.648 | -5081.233 | -70.864 | 261.927 | 156.039 | 275.550 | 381.437 | 402.235 | 41.962 | 49.903 | MAX.VL |
| 1 | 3 | LL 2 | 3.1 | | C | | 2767.989 | 5114.218 | 42.338 | -3015.417 | -42.345 | 181.588 | 118.721 | 222.473 | 285.339 | 195.908 | 36.438 | 37.280 | MAX.P3 |

FOOTING 1 ANALYSIS/DESIGN RESULTS

| FOOTING SIZE | | | * | BAR REINFORCEMENT STEEL | | | | * | SECTION CAPACITIES | | | | * |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| B | D | T | P1/PA | AS | NO.SIZE | SPAC. | PLACEMENT | MT. | VB | VP | DS | FC |
| 25.600 | 25.600 | 5.000 | 0.999 | 1.40 | 29 #10 | @10.500 | TOP TRAN | 270.265 | 51.842 | 103.683 | 42.955 | 0.000 |
| | | | | 2.10 | 35 #11 | @ 8.750 | BOT.LONG | 407.926 | 53.459 | 106.918 | 44.295 | 0.000 |

NUMBER OF PILES = 17  BP = 3.850  DP = 3.850