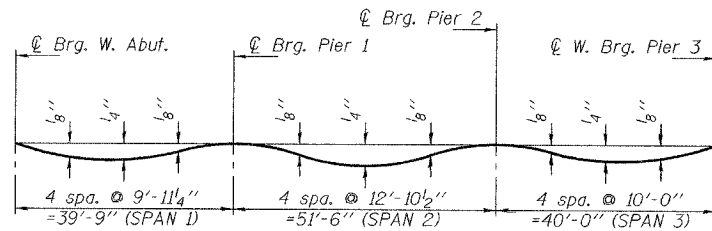
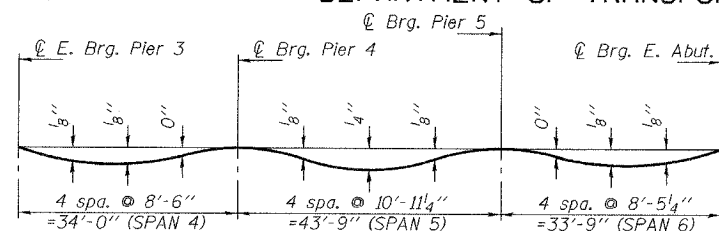


STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

| | | | | | |
|----------------------------|--------------|------------------|--------------------|------------|--------------------------|
| ROUTE NO. F.A.S. 738 | SECTION * | COUNTY Greene | TOTAL SHEETS 28 | SHEET 7 | SHEET NO. 3 20 SHEETS |
| FED. ROAD DIST. NO. 7 | | ILLINOIS | FED. AID PROJECT- | | CONTRACT NO. 97249 |



UNIT 1

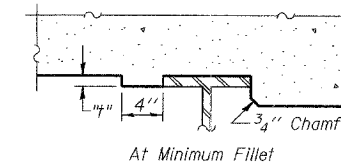


UNIT 2

DEAD LOAD DEFLECTION DIAGRAM

(Includes weight of concrete only.)

Note: The above deflections are not to be used in the field if the engineer is working from the grade elevations adjusted for dead load deflections as shown below.



To determine "t": After all structural steel has been erected, elevations of the top flanges of the beams shall be taken at intervals shown below. These elevations subtracted from the "Theoretical Grade Elevations Adjusted for Dead Load Deflection" shown below, minus slab thickness, equals the fillet heights "t" above top flange of beams.

FILLET HEIGHTS

BEAM 1

| Location | Station | Offset | Theoretical Grade Elevations | Theoretical Grade Elevations Adjusted For Dead Load Deflection |
|--------------------|-----------|---------|------------------------------|--|
| BK. W. ABUT. | 14359.148 | -13.500 | 499.540 | 499.540 |
| CL. BRG. W ABUT. | 14361.731 | -13.500 | 499.537 | 499.537 |
| A | 14371.731 | -13.500 | 499.527 | 499.540 |
| B | 14381.731 | -13.500 | 499.517 | 499.532 |
| C | 14391.731 | -13.500 | 499.507 | 499.514 |
| PIER 1 | 14401.481 | -13.500 | 499.498 | 499.498 |
| D | 14411.481 | -13.500 | 499.488 | 499.499 |
| E | 14421.481 | -13.500 | 499.478 | 499.499 |
| F | 14431.481 | -13.500 | 499.468 | 499.490 |
| G | 14441.481 | -13.500 | 499.458 | 499.471 |
| PIER 2 | 14452.981 | -13.500 | 499.446 | 499.446 |
| H | 14462.981 | -13.500 | 499.436 | 499.444 |
| I | 14472.981 | -13.500 | 499.426 | 499.443 |
| J | 14482.981 | -13.500 | 499.416 | 499.431 |
| CL. W. BRG. PIER 3 | 14492.981 | -13.500 | 499.406 | 499.406 |
| CL. E. BRG. PIER 3 | 14494.148 | -13.500 | 499.405 | 499.405 |
| K | 14504.148 | -13.500 | 499.395 | 499.405 |
| L | 14514.148 | -13.500 | 499.385 | 499.394 |
| PIER 4 | 14528.148 | -13.500 | 499.371 | 499.371 |
| M | 14538.148 | -13.500 | 499.361 | 499.370 |
| N | 14548.148 | -13.500 | 499.351 | 499.367 |
| O | 14558.148 | -13.500 | 499.341 | 499.353 |
| PIER 5 | 14571.898 | -13.500 | 499.327 | 499.327 |
| P | 14581.898 | -13.500 | 499.317 | 499.323 |
| Q | 14591.898 | -13.500 | 499.307 | 499.317 |
| CL. BRG. E. ABUT. | 14605.648 | -13.500 | 499.293 | 499.293 |
| BK. E. ABUT. | 14608.231 | -13.500 | 499.291 | 499.291 |

BEAM 2

| Location | Station | Offset | Theoretical Grade Elevations | Theoretical Grade Elevations Adjusted For Dead Load Deflection |
|--------------------|-----------|--------|------------------------------|--|
| BK. W. ABUT. | 14353.534 | -6.750 | 499.651 | 499.651 |
| CL. BRG. W ABUT. | 14356.117 | -6.750 | 499.648 | 499.648 |
| A | 14366.117 | -6.750 | 499.638 | 499.652 |
| B | 14376.117 | -6.750 | 499.628 | 499.643 |
| C | 14386.117 | -6.750 | 499.618 | 499.625 |
| PIER 1 | 14395.867 | -6.750 | 499.609 | 499.609 |
| D | 14405.867 | -6.750 | 499.599 | 499.610 |
| E | 14415.867 | -6.750 | 499.589 | 499.610 |
| F | 14425.867 | -6.750 | 499.579 | 499.601 |
| G | 14435.867 | -6.750 | 499.569 | 499.582 |
| PIER 2 | 14447.367 | -6.750 | 499.557 | 499.557 |
| H | 14457.367 | -6.750 | 499.547 | 499.555 |
| I | 14467.367 | -6.750 | 499.537 | 499.554 |
| J | 14477.367 | -6.750 | 499.527 | 499.542 |
| CL. W. BRG. PIER 3 | 14487.367 | -6.750 | 499.517 | 499.517 |
| CL. E. BRG. PIER 3 | 14488.534 | -6.750 | 499.516 | 499.516 |
| K | 14498.534 | -6.750 | 499.506 | 499.516 |
| L | 14508.534 | -6.750 | 499.496 | 499.505 |
| PIER 4 | 14522.534 | -6.750 | 499.482 | 499.482 |
| M | 14532.534 | -6.750 | 499.472 | 499.481 |
| N | 14542.534 | -6.750 | 499.462 | 499.478 |
| O | 14552.534 | -6.750 | 499.452 | 499.464 |
| PIER 5 | 14566.284 | -6.750 | 499.438 | 499.438 |
| P | 14576.284 | -6.750 | 499.428 | 499.434 |
| Q | 14586.284 | -6.750 | 499.418 | 499.428 |
| CL. BRG. E. ABUT. | 14600.034 | -6.750 | 499.404 | 499.404 |
| BK. E. ABUT. | 14602.617 | -6.750 | 499.402 | 499.402 |

RDWY. & BEAM 3

| Location | Station | Offset | Theoretical Grade Elevations | Theoretical Grade Elevations Adjusted For Dead Load Deflection |
|--------------------|-----------|--------|------------------------------|--|
| BK. W. ABUT. | 14347.920 | 0.000 | 499.762 | 499.762 |
| CL. BRG. W ABUT. | 14350.503 | 0.000 | 499.759 | 499.759 |
| A | 14360.503 | 0.000 | 499.749 | 499.763 |
| B | 14370.503 | 0.000 | 499.739 | 499.755 |
| C | 14380.503 | 0.000 | 499.729 | 499.736 |
| PIER 1 | 14390.253 | 0.000 | 499.720 | 499.720 |
| D | 14400.253 | 0.000 | 499.710 | 499.722 |
| E | 14410.253 | 0.000 | 499.700 | 499.721 |
| F | 14420.253 | 0.000 | 499.690 | 499.712 |
| G | 14430.253 | 0.000 | 499.680 | 499.693 |
| PIER 2 | 14441.753 | 0.000 | 499.668 | 499.668 |
| H | 14451.753 | 0.000 | 499.658 | 499.666 |
| I | 14461.753 | 0.000 | 499.648 | 499.665 |
| J | 14471.753 | 0.000 | 499.638 | 499.653 |
| CL. W. BRG. PIER 3 | 14481.753 | 0.000 | 499.628 | 499.628 |
| CL. E. BRG. PIER 3 | 14482.920 | 0.000 | 499.627 | 499.627 |
| K | 14492.920 | 0.000 | 499.617 | 499.627 |
| L | 14502.920 | 0.000 | 499.607 | 499.616 |
| PIER 4 | 14516.920 | 0.000 | 499.593 | 499.593 |
| M | 14526.920 | 0.000 | 499.583 | 499.593 |
| N | 14536.920 | 0.000 | 499.573 | 499.589 |
| O | 14546.920 | 0.000 | 499.563 | 499.575 |
| PIER 5 | 14560.670 | 0.000 | 499.549 | 499.549 |
| P | 14570.670 | 0.000 | 499.539 | 499.545 |
| Q | 14580.670 | 0.000 | 499.529 | 499.539 |
| CL. BRG. E. ABUT. | 14594.420 | 0.000 | 499.516 | 499.516 |
| BK. E. ABUT. | 14597.003 | 0.000 | 499.513 | 499.513 |

| | |
|----------|-----|
| DESIGNED | ABG |
| CHECKED | ZBU |
| DRAWN | SMS |
| CHECKED | JFS |

January 21, 2005

EXAMINED *Thomas J. Domagalak*
ENGINEER OF PUBLIC DESIGN
PASSED *Ralph E. Anderson*
ENGINEER OF BRIDGES AND STRUCTURES

E-S 4-30-97

Note: Work this sheet with sheets 2 and 4 of 20.

TOP OF SLAB ELEVATIONS
F.A.S. 738 OVER
HURRICANE CREEK
SECTION 01-00072-00-BR
GREENE COUNTY
STA. 144+72.46
STR. NO. 031-3005