























Design of Reinforcement for Steel Members

























































































































| Pre-Load | | | | | | | |
|----------|-------|------------------------|------------|------------|-----------|--|--|
| Spec. | KL/r | P ₀ kips | P_t kips | P_n kips | P_t/P_n | | |
| T-9 | 48 | 0 | 307 | 298 | 1.03 | | |
| T-17 | 48 | 0 | 517 | 475 | 1.09 | | |
| T-13 | 48 | 91 | 528 | 475 | 1.11 | | |
| 1 | 97 | 89 | 228 | 212 | 1.08 | | |
| 2 | 89 | 89 | 239 | 233 | 1.03 | | |
| 4 | 79 | 99 | 288 | 226 | 1.27 | | |
| 5 | 79 | 99 | 270 | 226 | 1.19 | | |
| 6 | 83 | 99 | 236 | 217 | 1.09 | | |
| Spec | cimen | T-9 wa | as not | reinfo | orced. | | |





























































































































































| Spec. | $\begin{array}{c} L_b \\ 	ext{ft} \end{array}$ | M_0 kip-ft | M_e kip-ft | M_n kip-ft | M_e/M_n |
|--------|--|--------------|--------------|--------------|-----------|
| P1 | 7.87 | 0 | 55.8 | 57.1 | 0.977 |
| P2 | 3.94 | 0 | 99.5 | 83.2 | 1.20 |
| A1 | 7.87 | 0 | 99.2 | 78.6 | 1.26 |
| A2 | 7.87 | 14.7 | 99.2 | 69.9 | 1.42 |
| A3 | 7.87 | 29.5 | 92.6 | 61.2 | 1.51 |
| C1 | 3.94 | 0 | 127 | 107 | 1.19 |
| C2 | 3.94 | 25.1 | 118 | 103 | 1.15 |
| C3 | 3.94 | 50.2 | 111 | 98.2 | 1.13 |
| pecimo | ens P1 | and P | 2 were | not rei | nforce |











































