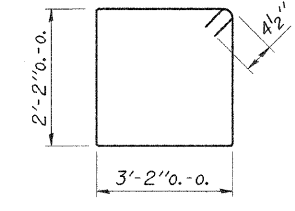
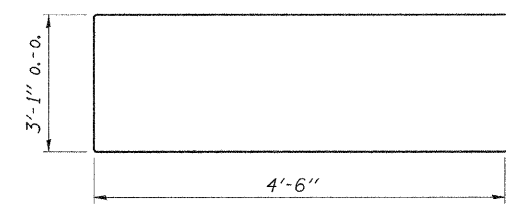


BILL OF MATERIAL FOR ONE PIER

| Bar | No. | Size | Length | Shape |
|---------------------|-----|------|--------|----------|
| p1 | 9 | #7 | 29'-2" | — |
| s1 | 30 | #4 | 11'-5" | □ |
| s2 | 28 | #5 | 1'-10" | U |
| s3 | 14 | #4 | 4'-2" | U |
| u1 | 8 | #6 | 12'-1" | □ |
| Concrete Structures | | | 10.0 | Cu. Yds. |
| Reinforcement Bars | | | 1010 | Lb. |

DIMENSION 'E'

| GRADE | 'D'=0° | | 'D'=5° | | 'D'=10° | |
|---------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|
| | UPGRADE END | DOWNGRADE END | UPGRADE END | DOWNGRADE END | UPGRADE END | DOWNGRADE END |
| 0% | 2 ³ / ₈ " | 2 ³ / ₈ " | 2 ³ / ₈ " | 2 ³ / ₈ " | 2 ³ / ₈ " | 2 ³ / ₈ " |
| Over 0% to 1% | 2 ³ / ₈ " | 2 ³ / ₈ " | 2 ¹ / ₄ " | 2 ³ / ₈ " | 2 ¹ / ₈ " | 2 ¹ / ₂ " |
| Over 1% to 2% | 2 ³ / ₈ " | 2 ³ / ₈ " | 2 ¹ / ₈ " | 2 ¹ / ₂ " | 1 ⁷ / ₈ " | 2 ³ / ₄ " |
| Over 2% to 3% | 2 ³ / ₈ " | 2 ³ / ₈ " | 2" | 2 ⁵ / ₈ " | 1 ⁵ / ₈ " | 3" |
| Over 3% to 4% | 2 ³ / ₈ " | 2 ³ / ₈ " | 1 ⁷ / ₈ " | 2 ³ / ₄ " | 1 ³ / ₈ " | 3 ¹ / ₄ " |



NOTE

1. Reinforcement bars shall conform to the requirements of A.A.S.H.T.O. M-31 or M-322, Grade 60.
2. Space reinforcement in cap to miss dowel rods.
3. For clarity, concrete encasement is not pictorially shown on elevation or section.

DESIGN STRESSES

f'c = 3,500 psi
fy = 60,000 psi

| | |
|---|---|
| AECOM 2524 S. Broadway Salem, Illinois 62861 618.548.3500 IL Design Firm Reg. No. 184-003708 www.aecom.com | SLM-CP-2827-10 P.P.C. DECK BEAMS PILE BENT PIER |
| | 28' ROADWAY 27" BEAMS 'D'=0°, 5°, OR 10° |
| Date: 01/20/10 Design: Drawn: Job No.: 200705594 | |