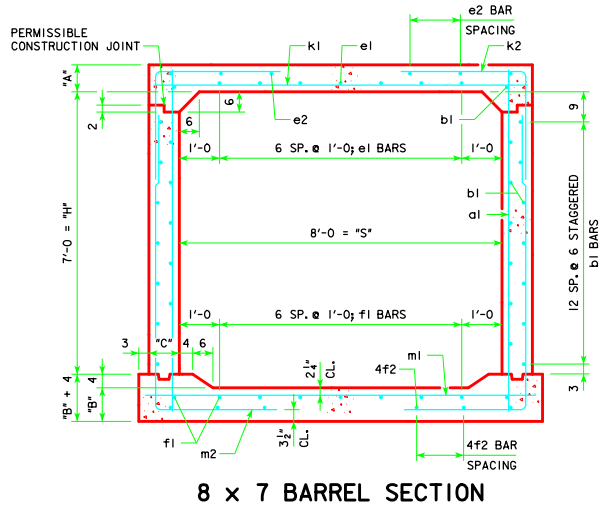
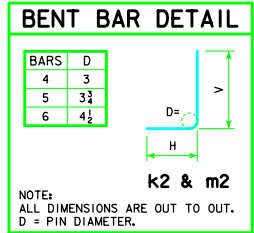


VARIABLE DIMENSIONS AND QUANTITIES FOR 8 x 7 BARREL SECTIONS

| DIMENSIONS | | | | | | | | | | BAR LIST | | | | | | | | | | | | | | | | | | QUANTITIES | | | | | | | | | | | | | | | | | | | | | |
|------------|---|---|------|------|------|---|------|-----|-------|----------|-----|-----|------|-----|-----|------|-----|-----|------|-----|-----|------|-----|---|------|-----|-------|------------|-----|-------|------------------|-------|----|-------|---------------|-----|-------|------|-----|--------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| FILL | S | H | A | B | C | D | a1 | | b1 | | e1 | | e2 | | f1 | | f2 | | k1 | | k2 | | k9 | | m1 | | m2 | | m9 | | CONCRETE (CY/FT) | | | | STEEL (LB/FT) | | | | | | | | | | | | | | |
| | | | | | | | SIZE | SP. | L | SIZE | SP. | NO. | SIZE | SP. | NO. | SIZE | SP. | NO. | SIZE | SP. | NO. | SIZE | SP. | L | SIZE | SP. | L | SIZE | SP. | L | SIZE | SP. | L | SIZE | | SP. | L | SIZE | SP. | SLAB | FLOOR | WALLS | TOTAL | | | | | | |
| 0 | 8 | 7 | 12.5 | 11 | 9 | 9 | 4 | 9 | 8'-10 | 4 | 6 | 28 | 5 | 12 | 7 | 4 | 13 | 8 | 4 | 12 | 9 | 4 | 14 | 8 | 6 | 9 | 9'-2 | 5 | 12 | 8'-9 | 5'-6 | 3'-3 | -- | -- | 5 | 6 | 9'-8 | 6 | 12 | 11'-5 | 4'-1 | 7'-4 | 6 | 9'-8 | 0.399 | 0.376 | 0.368 | 1.143 | 155.24 |
| 1 | 8 | 7 | 10.5 | 11 | 9 | 9 | 4 | 9 | 8'-8 | 4 | 6 | 28 | 5 | 12 | 7 | 4 | 13 | 8 | 4 | 12 | 9 | 4 | 15 | 8 | 6 | 9 | 9'-2 | 5 | 12 | 8'-7 | 5'-6 | 3'-1 | -- | -- | 5 | 6 | 9'-8 | 6 | 12 | 11'-10 | 4'-6 | 7'-4 | 6 | 9'-8 | 0.340 | 0.376 | 0.368 | 1.084 | 155.92 |
| 2 | 8 | 7 | 8 | 10 | 9 | 9 | 5 | 12 | 8'-5 | 4 | 6 | 28 | 5 | 12 | 7 | 4 | 14 | 8 | 4 | 12 | 9 | 4 | 17 | 6 | 5 | 6 | 9'-2 | 4 | 6 | 6'-11 | 4'-1 | 2'-10 | 4 | 9'-2 | 7 | 9 | 9'-8 | 4 | 6 | 10'-8 | 3'-5 | 7'-3 | 4 | 9'-8 | 0.267 | 0.345 | 0.368 | 0.980 | 154.21 |
| 3 | 8 | 7 | 8 | 10 | 9 | 9 | 5 | 12 | 8'-5 | 4 | 6 | 28 | 4 | 12 | 7 | 4 | 16 | 6 | 4 | 12 | 9 | 4 | 15 | 6 | 5 | 6 | 9'-2 | 4 | 6 | 6'-2 | 3'-4 | 2'-10 | 4 | 9'-2 | 7 | 9 | 9'-8 | 4 | 6 | 10'-5 | 3'-2 | 7'-3 | 4 | 9'-8 | 0.267 | 0.345 | 0.368 | 0.980 | 147.58 |
| 4-8 | 8 | 7 | 8 | 10 | 9 | 9 | 4 | 9 | 8'-5 | 4 | 6 | 28 | 4 | 12 | 7 | 4 | 15 | 6 | 4 | 12 | 9 | 4 | 14 | 6 | 5 | 6 | 9'-2 | 4 | 6 | 6'-2 | 3'-1 | 3'-1 | 4 | 9'-2 | 5 | 6 | 9'-8 | 4 | 6 | 10'-3 | 3'-0 | 7'-3 | 4 | 9'-8 | 0.267 | 0.345 | 0.368 | 0.980 | 137.03 |
| 9-10 | 8 | 7 | 8 | 10 | 9 | 9 | 4 | 12 | 8'-5 | 4 | 6 | 28 | 4 | 12 | 7 | 4 | 11 | 6 | 4 | 12 | 9 | 4 | 11 | 6 | 6 | 9 | 9'-2 | 4 | 6 | 5'-3 | 2'-5 | 2'-10 | 4 | 9'-2 | 5 | 6 | 9'-8 | 4 | 6 | 9'-8 | 2'-5 | 7'-3 | 4 | 9'-8 | 0.267 | 0.345 | 0.368 | 0.980 | 129.29 |
| 11-15 | 8 | 7 | 8 | 10 | 9 | 9 | 4 | 12 | 8'-5 | 4 | 6 | 28 | 4 | 12 | 7 | 4 | 11 | 6 | 4 | 12 | 9 | 4 | 11 | 6 | 6 | 9 | 9'-2 | 5 | 6 | 5'-4 | 2'-6 | 2'-10 | 5 | 9'-2 | 6 | 6 | 9'-8 | 5 | 6 | 9'-9 | 2'-5 | 7'-3 | 5 | 9'-8 | 0.267 | 0.345 | 0.368 | 0.980 | 170.74 |
| 16-20 | 8 | 7 | 9 | 10.5 | 9 | 9 | 4 | 12 | 8'-6 | 4 | 6 | 28 | 4 | 12 | 7 | 4 | 11 | 6 | 4 | 12 | 9 | 4 | 11 | 6 | 8 | 9 | 9'-2 | 5 | 6 | 5'-4 | 2'-5 | 2'-11 | 5 | 9'-2 | 7 | 6 | 9'-8 | 5 | 6 | 9'-9 | 2'-5 | 7'-4 | 5 | 9'-8 | 0.296 | 0.361 | 0.368 | 1.025 | 187.68 |
| 21-25 | 8 | 7 | 10 | 12 | 9 | 9 | 4 | 9 | 8'-9 | 4 | 6 | 28 | 4 | 12 | 7 | 4 | 11 | 6 | 4 | 12 | 9 | 4 | 11 | 6 | 7 | 6 | 9'-2 | 6 | 9 | 5'-9 | 2'-5 | 3'-4 | 6 | 9'-2 | 7 | 6 | 9'-8 | 6 | 9 | 9'-11 | 2'-6 | 7'-5 | 6 | 9'-8 | 0.326 | 0.407 | 0.368 | 1.101 | 197.89 |
| 26-30 | 8 | 7 | 11 | 13.5 | 9 | 9 | 4 | 9 | 8'-11 | 4 | 6 | 28 | 4 | 12 | 7 | 4 | 11 | 6 | 4 | 12 | 9 | 4 | 11 | 6 | 7 | 6 | 9'-2 | 6 | 9 | 5'-10 | 2'-5 | 3'-5 | 6 | 9'-2 | 7 | 6 | 9'-8 | 6 | 9 | 10'-1 | 2'-6 | 7'-7 | 6 | 9'-8 | 0.355 | 0.453 | 0.368 | 1.176 | 199.26 |
| 31-35 | 8 | 7 | 12.5 | 14.5 | 10.5 | 9 | 4 | 9 | 9'-2 | 4 | 6 | 28 | 4 | 12 | 7 | 4 | 11 | 6 | 4 | 12 | 9 | 4 | 11 | 6 | 7 | 6 | 9'-5 | 5 | 6 | 5'-9 | 2'-7 | 3'-2 | 5 | 9'-5 | 7 | 6 | 9'-11 | 5 | 6 | 10'-4 | 2'-8 | 7'-8 | 5 | 9'-11 | 0.412 | 0.497 | 0.431 | 1.340 | 202.68 |
| 36-40 | 8 | 7 | 13.5 | 16 | 11 | 6 | 4 | 6 | 9'-4 | 4 | 6 | 28 | 4 | 12 | 7 | 4 | 11 | 6 | 4 | 12 | 9 | 4 | 12 | 6 | 7 | 6 | 9'-6 | 6 | 9 | 6'-4 | 2'-8 | 3'-8 | 6 | 9'-6 | 7 | 6 | 10'-0 | 6 | 9 | 10'-6 | 2'-9 | 7'-9 | 6 | 10'-0 | 0.447 | 0.549 | 0.451 | 1.447 | 214.87 |
| 41-45 | 8 | 7 | 14.5 | 17 | 11.5 | 6 | 4 | 6 | 9'-6 | 4 | 6 | 28 | 4 | 12 | 7 | 4 | 11 | 6 | 4 | 12 | 9 | 4 | 12 | 6 | 9 | 9 | 9'-7 | 6 | 9 | 6'-6 | 2'-9 | 3'-9 | 6 | 9'-7 | 9 | 9 | 10'-1 | 6 | 9 | 10'-8 | 2'-10 | 7'-10 | 6 | 10'-1 | 0.483 | 0.587 | 0.471 | 1.541 | 229.21 |
| 46-50 | 8 | 7 | 15 | 17.5 | 12.5 | 6 | 4 | 6 | 9'-7 | 4 | 6 | 28 | 4 | 12 | 7 | 4 | 12 | 6 | 4 | 12 | 9 | 4 | 12 | 6 | 9 | 9 | 9'-9 | 5 | 6 | 6'-4 | 2'-11 | 3'-5 | 5 | 9'-9 | 9 | 9 | 10'-3 | 5 | 6 | 10'-11 | 3'-0 | 7'-11 | 5 | 10'-3 | 0.508 | 0.614 | 0.512 | 1.634 | 231.50 |
| 51-55 | 8 | 7 | 16 | 18.5 | 13 | 6 | 4 | 6 | 9'-9 | 4 | 6 | 28 | 4 | 12 | 7 | 4 | 12 | 6 | 4 | 12 | 9 | 4 | 13 | 6 | 8 | 6 | 9'-10 | 5 | 6 | 6'-6 | 3'-0 | 3'-6 | 5 | 9'-10 | 8 | 6 | 10'-4 | 5 | 6 | 11'-1 | 3'-1 | 8'-0 | 5 | 10'-4 | 0.545 | 0.652 | 0.532 | 1.729 | 247.68 |



- #### NOTES:
- DIMENSIONS LISTED ON THIS SHEET TO BE USED IN CONJUNCTION WITH SHEET RCB G2-12.
 - THE K2 AND M2 BARS HORIZONTAL LEGS MAY LAP IN LOW FILL SITUATIONS.
 - DIMENSIONS "A", "B", "C", "D", AND "SP." LISTED IN THE BAR LIST ARE IN INCHES.

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| LATEST REVISION DATE | APPROVED BY BRIDGE ENGINEER | STANDARD DESIGN SINGLE REINFORCED CONCRETE BOX CULVERTS APRIL, 2012 |
| CULVERT BARREL DETAILS 8 x 7 BARREL SECTIONS | | RCB 8-7-12 |

ENGLISH BEDSIGNING\EGULVERTS.DGN - RCB 8-7-12 - THIS SHEET ISSUED 04-12