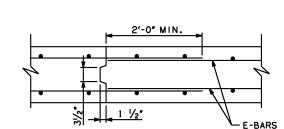
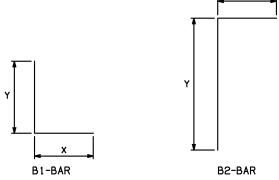
| DESCRIPTION | REVISIONS | DATE | | | | | | |
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| | SI | ECTIO | ON | | | | | | | | | | | | | | | | | | | | | REII | NFO | RCING | STE | EL | | | | | | | | | | | | | | | | | | | | | |
|-----|-----|-------|-----|-------|-------|-----|-------------------------|---------------------|-------|------|-------|-------------|---------------------|------|-----|-------------------------|----------------------|------|---------------|------|-------|----------------|----------------------|------|-----|--------|--------|--------|---------------------|------------|-----|--------|----------------------|--------------|----------|-----------------------|----|---------|-------------|----------------------|------|-------------------|----------------|-------------------|-----------------|----------------------|--------|----------------|----------------------|
| | DIM | ENSI | ONS | | | A | -BARS | | | A | \2-BA | RS | | | A3- | -BARS | | | | В1- | -BARS | | | | | В2 | 2-BARS | | | | C1 | -BARS | | | C2-BAR | s | | СЗ-В. | ARS | | | C4-BAR | s | 1 | E1-BA AT 12" | | | 2-BAI 12" I | |
| S | н | т | U | w | z Z | SPA | LENGTH | WEIGI PER FT. | ₹ 5 | SPA | LEN | GTH | EIGHT PER FT. | SIZE | SPA | ENGTH | WEIGHT PER FT. | SIZE | SPA (| x* | *Y* | LENGTH | WEIGHT PER FT. | SIZE | SPA | *X* | #Y# | LENGTH | WEIGH PER FT. | SIZE | SPA | _ENGTH | WEIGHT PER FT. | SIZE | LENG | WEIGH H PER FT. | 🖺 | A LEN | IGTH | WEIGHT PER FT. | SIZE | & LENGT | WEIG TH PEI | | size | WEIGHT PER FT. | NO. | | VEIGHT PER FT. |
| 18' | 8, | 16" | 17" | 14" 1 | 2" #8 | 6" | 39 " -0 " | 416. | 5 # | 7 6" | 11" | -4" | 92.7 | #4 | 6" | 39 " -0 " | 104.2 | #6 | 6" 2'- | -10" | 3'÷2" | 6'∸0 " | 36.0 | #6 | 6" | 2'-10" | 10'-2" | 13'-0" | 78.1 | # 5 | 12" | 2'-6" | 5.2 | # 5 1 | 2" 10"-2 | 21.2 | #4 | 12" 2" | ÷6 * | 3.3 | #4 | 12 " 10'-2 | 13. | .6 1£ | 68 #4 | 112.2 | 54 | #4 | 36.1 |
| 18' | 10' | 16" | 17" | 14" 1 | 2" #8 | 6" | 39'-0" | 416. | 5 # | 7 6" | 11' | -6" | 94.0 | #4 | 6" | 39'-0 " | 104.2 | #6 | 6" 2'- | -10" | 3'-2" | 6'-0" | 36.0 | #6 | 6" | 2'-10" | 11'-2" | 14'-0" | 84.1 | #5 | 12" | 2'-6" | 5.2 | #5 1 | 2" 11'-2 | 23. 3 | #4 | 12" 2" | -6" | 3.3 | #4 | 12" 11'-2 | . 14. | ,9 1€ | 68 #4 | 112.2 | 60 | #4 | 40.1 |
| 18' | 11' | 16" | 17" | 14" 1 | 2" #8 | 6" | 39'-0" | 416. | 5 # | 7 6" | 11'- | -8" | 95.4 | #4 | 6" | 39'-0" | 104.2 | #6 | 6" 2'- | -10" | 3'-2" | 6'-0" | 36.0 | #6 | 6" | 2'-10" | 12'-2" | 15'-0" | 90.1 | #5 | 12" | 2'-6" | 5.2 | #5 1 | 2" 12'-2 | * 25.4 | #5 | 12" 2'- | 10" | 5.9 | #5 | 12" 12'-2 | 25. | ,4 1 6 | 68 #4 | 112.2 | 66 | #4 | 44.1 |
| 18' | 12' | 16" | 17" | 14" 1 | 2" #8 | 6" | 39'-0" | 416. | 5 # | 7 6" | 11'- | -9" | 96.1 | #4 | 6" | 39'-0 " | 104.2 | #6 | 6" 2'- | -11" | 3'-2" | 6'-1" | 36.5 | #6 | 6* | 2'-11" | 13'-2" | 16'-1" | 96.6 | #5 | 12" | 2'-6" | 5.2 | #5 1 | 2" 13'-2 | 27. 5 | #5 | 6" 2'- | 10" | 11.8 | #5 | 6" 13'-2 | 7 54. | .9 16 | 68 #4 | 112.2 | 72 | #4 | 48.1 |
| 18' | 15' | 17" | 18" | 14" 1 | 2" #8 | 6" | 39'-0 " | 416. | 5 # | 7 6* | 11' | -9 * | 96.1 | #4 | 6" | 39'-0 " | 104.2 | #7 | 6 " 3' | -2" | 3'-9" | 6'-11 " | 56.6 | #7 | 6* | 3'-2" | 16'-3" | 19'-5" | 158.8 | #4 | 12" | 2'-7" | 3.5 | #4 1 | 2" 16'-3 | 21.7 | #5 | 6" 2'- | 11" | 12.2 | #5 | 6" 16'-3 | <i>•</i> 67. | .8 1£ | 68 #4 | 112.2 | 90 | #4 | 60.1 |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | \Box | | |
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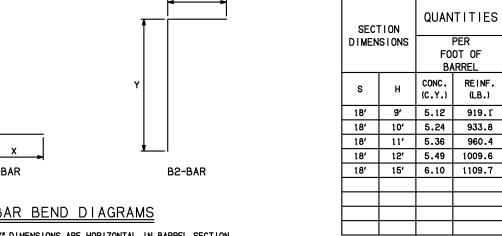
TRANSV. CONSTR. JOINT



BAR BEND DIAGRAMS

BARREL SECTION

NOTE: ALL "X" DIMENSIONS ARE HORIZONTAL IN BARREL SECTION.
ALL "Y" DIMENSIONS ARE VERTICAL IN BARREL SECTION.



NOTE: NUMBER AND SPACING OF E-BARS SHOWN MAY NOT BE REPRESENTATIVE OF ACTUAL CULVERT SECTIONS, SEE SCHEDULE ABOVE FOR NUMBER AND SPACING OF E-BARS.

-CONST. JT.

DESIGN DATA:

- 1. DESIGNED IN ACCORDANCE WITH 2007 AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS AND INTERIM SPECIFICATIONS FROM 2008.
- 2. DESIGNED FOR HL-93 LOADING AND ODOT OVERLOAD TRUCK.

CONCRETE (CLASS AA) f'c = 4 KSI REINFORCING STEEL fy = 60 KSI

GENERAL NOTES:

- 1. ALL CONSTRUCTION AND MATERIAL REQUIREMENTS SHALL BE IN ACCORDANCE WITH THE 2009 OKLAHOMA STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION.
- 2. ALL CONCRETE EDGES SHALL HAVE A 1 1/2" CHAMFER UNLESS OTHERWISE SHOWN OR NOTED. ALL CHAMFER STRIPS SHALL BE SIZED LUMBER.
- ALL REINFORCING STEEL SHALL HAVE A 2" MINIMUM CLEAR COVER UNLESS OTHERWISE SHOWN.
- THE QUANTITY FOR REINFORCING STEEL DOES NOT INCLUDE LAP SPLICES OF E1-BARS OR E2-BARS IN THE LENGTH OF THE BARREL OR AT TRANSVERSE CONSTRUCTION JOINTS. THE SPLICE LENGTH FOR E-BARS SHALL BE 24" MINIMUM. THE NUMBER OF SPLICES USED IS TO BE APPROVED BY THE ENGINEER. REINFORCING STEEL FOR SPLICES SHALL NOT BE MEASURED FOR PAYMENT, AND ALL COSTS WILL BE INCLUDED IN THE UNIT BID PRICE FOR REINFORCING STEEL.
- TRANSVERSE CONSTRUCTION JOINTS SHALL BE PLACED IN ALL CULVERTS 100 FT. OR MORE IN LENGTH. JOINTS SHALL BE SPACED AT 60 FT. MAX.
- 6. REINFORCING STEEL SHALL BE CONTINUOUS THROUGH THE TRANSVERSE CONSTRUCTION JOINT AND EXTEND A MIN. OF 24" INTO ADJACENT SECTION.

| ITEM NO. | ITEM | UNIT |
|------------|-------------------|------|
| 509.06 (A) | CLASS AA CONCRETE | C.Y. |
| 511.06 (A) | REINFORCING STEEL | LB. |
| | | |

DATE 4/2/10 APPROVED BY BRIDGE ENGINEER recents.

> OKLAHOMA DEPT. OF TRANSPORTATION BRIDGE STANDARD (ENGLISH)

RCB CULVERTS - BARREL DETAILS 18'-0" SPAN - DOUBLE CELL

> 01E B-541E

2 FT. TO 8 FT. FILL RCB-C2-18(2-8) 2009 SPECIFICATIONS