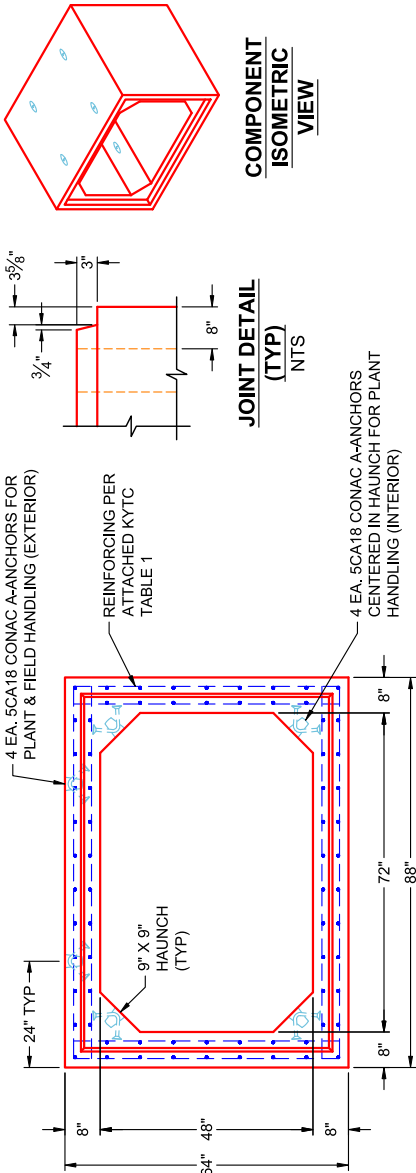




Structure ID: BC 6 x 4 (Sec L)

P1 BC048072-08WLF-9H

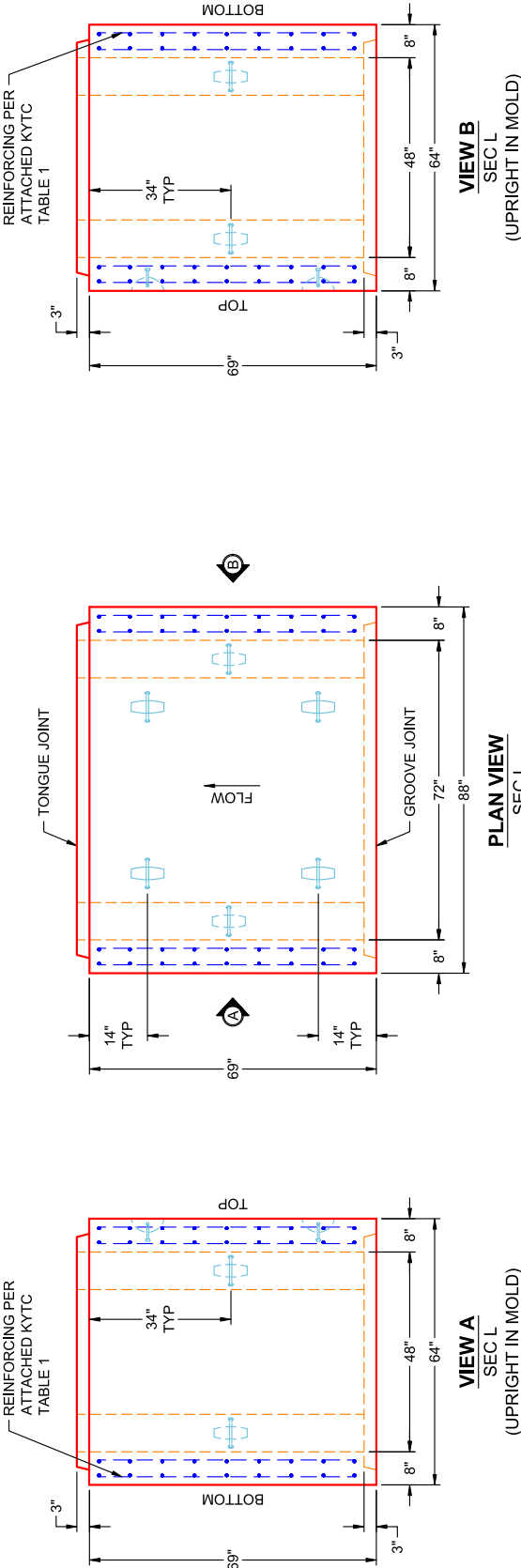
BOX CULVERT (08W/08F/08T) G/T



COMPONENT  
ISOMETRIC  
VIEW

JOINT DETAIL  
(TYP)  
NTS

END VIEW  
TYPICAL



VIEW B  
SEC L  
(UPRIGHT IN MOLD)

PLAN VIEW  
SEC L  
(UPRIGHT IN MOLD)

VIEW A  
SEC L  
(UPRIGHT IN MOLD)

- GENERAL NOTES:**
- PER SECTION 605 OF KYTC STANDARD SPECS FOR ROAD & BRIDGE CONSTRUCTION
  - LOAD REQUIREMENTS: KY-HL93 (KY TABLE 1)
  - REINFORCEMENT PER ATTACHED KYTC TABLE 1
  - COVER DEPTH: 0' - 4'
  - CONCRETE: 5,000 PSI AT 28 DAYS
  - JOINT SEALANT: 1" BUTYL MASTIC (CS-102) EXTERIOR JOINT WRAP: 12" WIDE (CS-212)
  - WEIGHT: 6' X 4' RCBC = 2,354 LBS / LF (5'-9" LONG SECTION = 13,537 LBS)

PRODUCTION WORK ORDER



QUALITY CONTROL CHECKLIST

- ☐ ALL DIMENSIONS CORRECT.
- ☐ LIFTERS INSTALLED INSIDE.
- ☐ RECESS WITH HAUNCHES CORRECT.
- ☐ REINFORCING CORRECT.
- ☐ SURFACE QUALITY ACCEPTABLE.
- ☐ LIFTERS INSTALLED OUTSIDE.
- ☐ PRODUCT SQUARE.

PRODUCT I.D.: BC048072-08WLF-9H  
PRODUCT VIEW: RIGHT SIDE UP  
PLANT: BEAVER DAM, KY  
WEIGHT: 13,537 LBS  
TOP SECTION JOINT: TONGUE  
BASE SECTION JOINT: GROOVE  
QC CHECK INITIALS:

DESCRIPTION: 72" X 48" X 69" BOX CULVERT (8" WALLS & 9" HAUNCH)  
CUSTOMER: ERNIE DAVIS & SONS MECHANICAL, INC.  
PROJECT: HUNTER'S RIDGE PH 1  
STRUCTURE: BC 6 X 4 (SEC L)  
ORDER NO: 25-2898  
PE: J.H. ROSS  
DRAWING: K. CARDWELL  
DATE: 05/29/26  
SCALE: NTS  
PG. 1 OF 1



- \* <L1> is Splice Length
- \* (AS7) is Top Slab Outside
- \* (AS8) is Bottom Slab Outside
- \* See Box Culvert Design Summary Sheet for transverse and distribution reinforcement, as required.
- \* For sidewall thicknesses of 6 in. and above, extend AS2 and AS3 a min. of 4 in. beyond the inside face of the sidewall. For thicknesses less than 6 in., extend AS2 and AS3 at least to within 1-1/2 in. of the outside face of the sidewall.

Notes:

- 1) Other reinforcement schemes that provide the required reinforcement areas at all locations identified in the program output are acceptable.
- 2) Longitudinal reinforcement is not shown for clarity, see AASHTO M259 for longitudinal reinforcement and for additional requirements.

**KY Table 1**

*Precast Culvert KYHL-93 Design Table*

| Design Earth Cover, ft |      | As1   | As2   | As3   | As4   | As7   | As8   | As5   | As6   |
|------------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|
| 6x4x7                  | 0<2* | 0.202 | 0.421 | 0.266 | 0.168 | 0.192 | 0.168 | 0.192 | 0.192 |
|                        | 2<3  | 0.251 | 0.368 | 0.288 | 0.168 | 0.168 | 0.168 |       |       |
|                        | 3-5  | 0.19  | 0.271 | 0.24  | 0.168 | 0.168 | 0.168 |       |       |
|                        | 10   | 0.168 | 0.228 | 0.234 | 0.168 | 0.168 | 0.168 |       |       |
|                        | 15   | 0.216 | 0.306 | 0.313 | 0.168 | 0.168 | 0.168 |       |       |
|                        | 20   | 0.275 | 0.391 | 0.398 | 0.168 | 0.168 | 0.168 |       |       |
|                        | 25   | 0.338 | 0.479 | 0.487 | 0.168 | 0.168 | 0.168 |       |       |
|                        | 30   | 0.404 | 0.571 | 0.579 | 0.168 | 0.168 | 0.168 |       |       |
|                        | 35   | 0.473 | 0.667 | 0.675 | 0.168 | 0.168 | 0.168 |       |       |
| *top slab 8"           |      |       |       |       |       |       |       |       |       |

| Design Earth Cover, ft |      | As1   | As2   | As3   | As4   | As7   | As8   | As5   | As6   |
|------------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|
| 6x5x7                  | 0<2* | 0.192 | 0.449 | 0.291 | 0.168 | 0.192 | 0.168 | 0.192 | 0.192 |
|                        | 2<3  | 0.22  | 0.398 | 0.316 | 0.168 | 0.168 | 0.168 |       |       |
|                        | 3-5  | 0.168 | 0.294 | 0.262 | 0.168 | 0.168 | 0.168 |       |       |
|                        | 10   | 0.168 | 0.243 | 0.252 | 0.168 | 0.168 | 0.168 |       |       |
|                        | 15   | 0.188 | 0.326 | 0.336 | 0.168 | 0.168 | 0.168 |       |       |
|                        | 20   | 0.238 | 0.417 | 0.427 | 0.168 | 0.168 | 0.168 |       |       |
|                        | 25   | 0.291 | 0.512 | 0.522 | 0.168 | 0.168 | 0.168 |       |       |
|                        | 30   | 0.347 | 0.611 | 0.622 | 0.168 | 0.168 | 0.168 |       |       |
|                        | 35   | 0.406 | 0.714 | 0.725 | 0.168 | 0.168 | 0.168 |       |       |
| *top slab 8"           |      |       |       |       |       |       |       |       |       |

| Design Earth Cover, ft |      | As1   | As2   | As3   | As4   | As7   | As8   | As5   | As6   |
|------------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|
| 6x6x7                  | 0<2* | 0.192 | 0.47  | 0.311 | 0.168 | 0.192 | 0.168 | 0.192 | 0.192 |
|                        | 2<3  | 0.195 | 0.421 | 0.337 | 0.168 | 0.168 | 0.168 |       |       |
|                        | 3-5  | 0.168 | 0.311 | 0.277 | 0.168 | 0.168 | 0.168 |       |       |
|                        | 10   | 0.168 | 0.252 | 0.263 | 0.168 | 0.168 | 0.168 |       |       |
|                        | 15   | 0.168 | 0.338 | 0.349 | 0.168 | 0.168 | 0.168 |       |       |
|                        | 20   | 0.212 | 0.432 | 0.444 | 0.168 | 0.168 | 0.168 |       |       |
|                        | 25   | 0.259 | 0.531 | 0.543 | 0.168 | 0.168 | 0.168 |       |       |
|                        | 30   | 0.308 | 0.634 | 0.647 | 0.168 | 0.168 | 0.168 |       |       |
|                        | 35   | 0.359 | 0.741 | 0.755 | 0.168 | 0.168 | 0.168 |       |       |
| *top slab 8"           |      |       |       |       |       |       |       |       |       |

