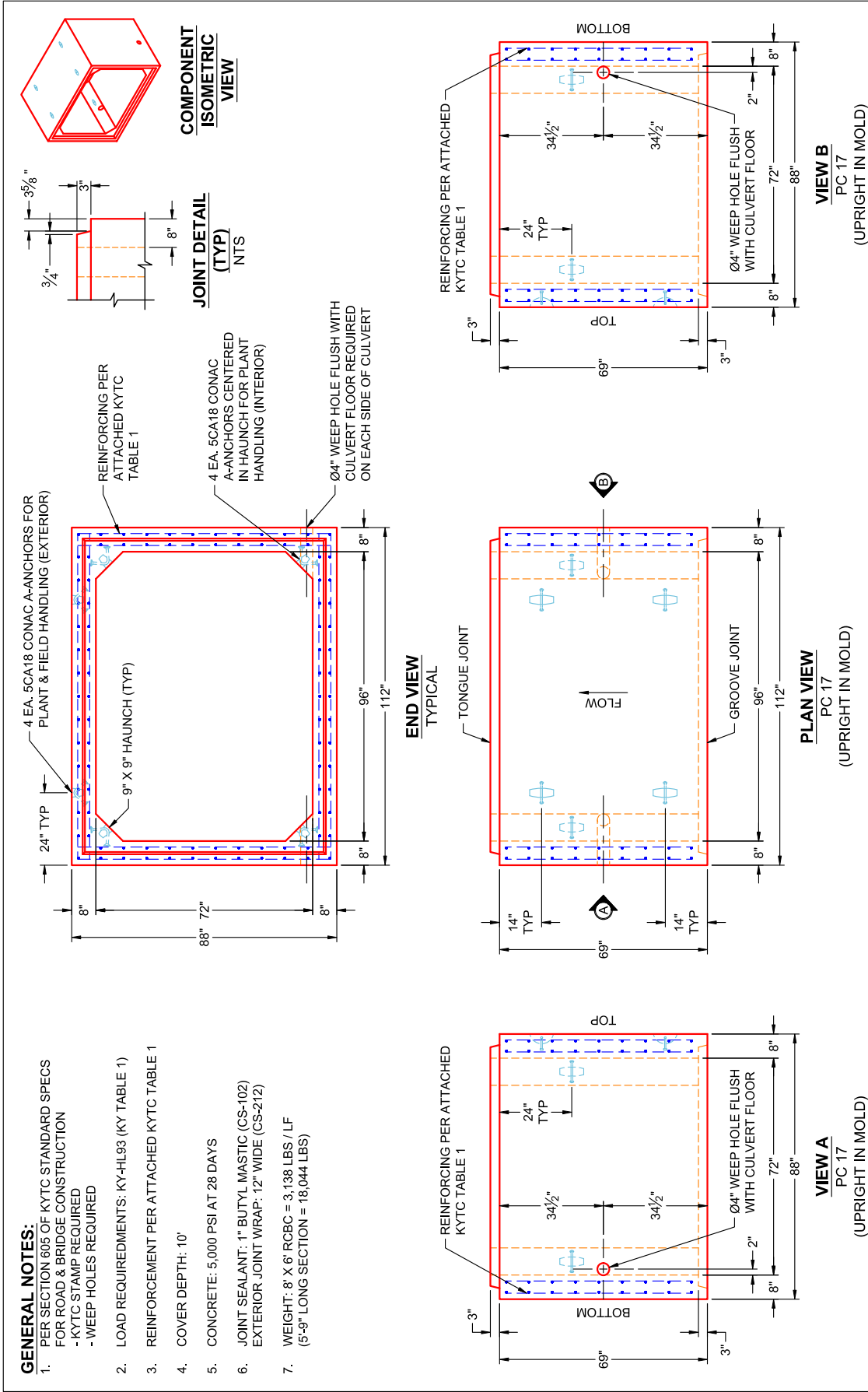




PRODUCTION WORK ORDER		PRODUCT I.D.: BC096072-08WLF-9H	DESCRIPTION: 96" X 72" X 69" BOX CULVERT (8" WALLS & 9" HAUNCH)
 QUALITY CONTROL CHECKLIST ☐ ALL DIMENSIONS CORRECT. ☐ LIFTERS INSTALLED INSIDE. ☐ RECESS WITH HAUNCHES CORRECT. ☐ REINFORCING CORRECT. ☐ SURFACE QUALITY ACCEPTABLE. ☐ LIFTERS INSTALLED OUTSIDE. ☐ PRODUCT SQUARE.	PRODUCT VIEW: RIGHT SIDE UP	CUSTOMER: JIM SMITH CONTRACTING	
	PLANT: BEAVER DAM, KY	PROJECT: KYTC MCCracken CO. CALL 200 (ID 241301)	
	WEIGHT: 18,044 LBS	STRUCTURE: ST. 43+62 (PC 17)	
	TOP SECTION JOINT: TONGUE	ORDER NO: 24-1643B	
	BASE SECTION JOINT: GROOVE	PE: J.H. ROSS	
QC CHECK INITIALS:		DRAWING: K. CARDWELL	
THIS DRAWING IS THE PROPERTY OF INFRASTRUCTURE PRECAST, INC. ANY USE OR DUPLICATION OF THIS DRAWING WITHOUT PRIOR AUTHORIZATION IS STRICTLY PROHIBITED.		DATE: 05/28/26	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
8x6x8	0<2	0.267	0.536	0.382	0.192	0.192	0.192	0.192	0.192
	2<3	0.266	0.458	0.382	0.192	0.192	0.192	0.192	0.192
	3-5	0.237	0.392	0.359	0.192	0.192	0.192		
	10	0.244	0.365	0.38	0.192	0.192	0.192		
	15	0.321	0.489	0.505	0.192	0.192	0.192		
	20	0.408	0.627	0.644	0.192	0.192	0.192		
	25	0.502	0.774	0.791	0.192	0.192	0.192		
	30	0.602	0.928	0.946	0.192	0.192	0.192		
	35	0.708	1.089	1.108	0.192	0.192	0.192		

Design Earth Cover, ft		As1	As2	As3	As4	As7	As8	As5	As6
8x7x8	0<2	0.245	0.557	0.403	0.192	0.192	0.192	0.197	0.192
	2<3	0.243	0.479	0.403	0.192	0.192	0.192	0.192	0.192
	3-5	0.215	0.409	0.378	0.192	0.192	0.192		
	10	0.225	0.378	0.396	0.192	0.192	0.192		
	15	0.295	0.507	0.526	0.192	0.192	0.192		
	20	0.374	0.651	0.671	0.192	0.192	0.192		
	25	0.459	0.804	0.825	0.192	0.192	0.192		
	30	0.549	0.965	0.987	0.192	0.192	0.192		
	35	0.644	1.134	1.157	0.192	0.192	0.192		

Design Earth Cover, ft		As1	As2	As3	As4	As7	As8	As5	As6
8x8x8	0<2	0.226	0.575	0.42	0.192	0.192	0.192	0.203	0.192
	2<3	0.224	0.494	0.42	0.192	0.192	0.192	0.192	0.192
	3-5	0.201	0.423	0.393	0.192	0.192	0.192		
	10	0.211	0.386	0.407	0.192	0.192	0.192		
	15	0.276	0.518	0.54	0.192	0.192	0.192		
	20	0.349	0.665	0.688	0.192	0.192	0.192		
	25	0.427	0.822	0.846	0.192	0.192	0.192		
	30	0.51	0.988	1.013	0.192	0.192	0.192		

Default Parameters		Data Directory: e: Jeremiah.Littlebo Documents BD&ARE	
Section Length		SPAN < / ft SPAN > / ft	
Box Geometry Top Slab Thickness Bottom Slab Thickness Sidewall Thickness Horizontal Haunch Length Vertical Haunch Length	{Span/12} + 1 {Span/12} + 0 {Span/12} + 1 {Span/12} + 0 {Span/12} + 1 {Span/12} + 0 {Span/12} + 1 {Span/12} + 0 {Span/12} + 1 {Span/12} + 0		
Linear Concrete Covers		MINIMUM DEPTH OF FILL < 2 ft MINIMUM DEPTH OF FILL >= 2 ft	
Top Slab Outside Face Top Slab Outside Face Bottom Slab Outside Face Sidewall Outside Face Top Slab Inside Face Bottom Slab Inside Face Sidewall Inside Face	in. in. in. in. in. in. in. in. in. in. in. in. in. in.		
Material Properties		Reinforcement Type: Welded Wire	
Main Reinforcement Yield Strength		Restore Default Settings	
Design Concrete Strength Concrete Unit Weight Stirrup Reinforcement Developable Yield Stress Total Service Stress Limit	psi psi psi psi pcf pcf psi psi % %		
Next Page >> Return to Main Menu			

Design Code	Strength Reduction Factors	
[ASHTO - LRFD]	Design Code []	
	Flexure [1]	
	Shear [0.9]	
Reinforcement Diameter	Crack Width (CHEDC Only) [0.25] mm	
User Specified []	Diameter	Maximum Spacing
	* Sidewall Thickness { 0 } in.	{ 4 } in.
	* Top Slab Thickness { 0 } in.	{ 4 } in.
	* Bottom Slab Thickness { 0 } in.	{ 4 } in.
	* Sidewall Thickness { 0 } in.	{ 4 } in.
	* Top Slab Thickness { 0 } in.	{ 4 } in.
	* Bottom Slab Thickness { 0 } in.	{ 4 } in.
Sidewall Outside (A5-1)	{ 0.05 }	
Top Inside (A5-2)	{ 0.05 }	
Bottom Inside (A5-3)	{ 0.05 }	
Sidewall Inside (A5-4)	{ 0.05 }	
Top Outside (A5-7)	{ 0.05 }	
Bottom Outside (A5-8)	{ 0.05 }	
Soil Load Data	pof	
Soil Unit Weight	120	
Minimum Lateral Pressure Coefficient	0.25	
Maximum Lateral Pressure Coefficient	0.5	
Vertical Arching Factor	Embankment/Compacted []	

[Previous Page](#) [Next Page >>](#) [Return to Main Menu](#)

Buyer - Detail (page 2) - Interstate/ Tandem Truck

Live Load Data

Live Load Type (Max 2)

☒ H5 Series

☒ Interstate/Tandem

☐ Cooper Series

☐ CHBDC Truck

☐ Tandem/Tandem

☐ Other

☐ None

Magnitude (M)

75 tons

80 kips

80 kips

140 kips

140 kips

15 kips

Footprint

☒ By Code

☒ By Code

☐ By Code

☒ By Code

☐ By Code

☐ By Code

Users Specified (Not by Code)

Length

10 in.

10 in.

0 in.

10 in.

10 in.

10 in.

Width

20 in.

20 in.

0 in.

24 in.

20 in.

20 in.

Interstate/Tandem Truck

Wheel Layout

Diagram illustrating the wheel layout for an Interstate/Tandem Truck. The layout shows two front axles spaced 14 ft. apart, two middle axles spaced 5 ft. apart, and two rear axles spaced 4 ft. apart. The axle load is 0.67 ft. and 0.5 ft. respectively. The wheelbase is 4 ft. and the load is A=4 ft.

Direction of Traffic

Parallel

To Span

Impact Factor Options

Design Code

1

Impact Factor (User Def)

Lane Load

0

lb/ft

Live Load Distribution Factor (LLDF)

Design Code

1.15

Fluid Loads

Depth of Fluid

1

ft

Fluid Unit Weight

52.5

pcl

Surcharge Loads

Uniform Vertical

Lateral - Top of Culvert (LLTC)

Lateral - Bottom of Culvert (LLBC)

0 lb/ft

90 lb/ft

90 lb/ft

<<Previous Page

NextPage>>

Return to Main Menu