



**GENERAL NOTES:**

**LOADING:** HS20-44 AASHTO Specifications, 1993 Edition.

**UNIT STRESSES:** Class AAA Concrete,  $f_c = 4,000$  p.s.i.  
Reinforcing Steel,  $f_y = 60,000$  p.s.i.

**FILL HEIGHT:** Unless otherwise noted, the Design Fill Height is measured from the riding surface at the culvert and shall include the surfacing.

**CONCRETE:** Class AAA Concrete shall be used throughout. Bavel all exposed edges with a 3/4 inch triangular moulding. Where Class AAA Concrete (AE) is specified, it shall be placed in the top slab above the Construction Joint.

**REINFORCING:** All reinforcing shall conform to ASTM A615, Grade 60. All dimensions relative to reinforcing steel shall be to centerline of bar unless otherwise noted.

**EXCAVATION:** All Excavation for culverts shall be paid subsidiary to L.S. bid item 3-10x5' RCBC.

**FOUNDATION STABILIZATION:** Foundation Stabilization may be required as directed by the Engineer. The depth of Foundation Stabilization shall be determined by the Engineer. Foundation Stabilization shall be paid subsidiary to L.S. bid item 3-10x5' RCBC. See Auxiliary Details.

**GRANULAR BACKFILL (MINGWALLS):** Special backfill procedures may be required at the direction of the Engineer. See Auxiliary Details Sheet.

**STRIKE LINE:** Wingwalls and that portion of the RCB outside the Strike Line shall be constructed level. Footing for wingwalls shall be constructed with the culvert floor. See wingwall detail sheet.

**PRE-CAST:** The longitudinal steel used in the cast-in-place shall be spliced to the exposed Pre-cast 12" reinforcing steel.

Flow Line Elev. Lt.		Flow Line Elev. Rt.		Crown Gr. Elev		Design Fill Ht.		Skew		Left Wings		Right Wings		Scour Apron		Soil Saver		Granular Backfill		Concrete		Rein't Steel (Gr. 60)	
Flow Line Elev. Lt.	Flow Line Elev. Rt.	Crown Gr. Elev	Design Fill Ht.	Skew	Left Wings	Right Wings	Scour Apron	Soil Saver	Granular Backfill	Concrete	Rein't Steel (Gr. 60)	Concrete	Rein't Steel (Gr. 60)	Concrete	Rein't Steel (Gr. 60)	Concrete	Rein't Steel (Gr. 60)	Concrete	Rein't Steel (Gr. 60)	Concrete	Rein't Steel (Gr. 60)	Concrete	Rein't Steel (Gr. 60)
1430.00	1429.70	1443.00	10'	0°	FLARED	FLARED	NO	NO	12.0	12.0	2,250	12.0	2,250	12.0	2,250	12.0	2,250	12.0	2,250	12.0	2,250	12.0	2,250
<b>BAR SCHEDULE</b>																							
<b>F1</b>						<b>F3</b>						<b>F4</b>						<b>S1</b>					
Size	Spa.	No.	Length	Size	Spa.	No.	Length	Size	Spa.	No.	Length	Size	Spa.	No.	Length	Size	Spa.	No.	Length	Size	Spa.	No.	Length
5"	11"	33	3'-3"	6"	9"	33	3'-3"	4"	48"	4'-10"	5"	11"	33	3'-3"	6"	6"	6"	6"	6"	6"	6"	6"	6"
<b>K1</b>						<b>K2</b>						<b>W1</b>						<b>W2</b>					
Size	Spa.	No.	Length	Size	Spa.	No.	Length	Size	Spa.	No.	Length	Size	Spa.	No.	Length	Size	Spa.	No.	Length	Size	Spa.	No.	Length
5"	11"	33	3'-3"	6"	9"	33	3'-3"	4"	48"	4'-10"	5"	11"	33	3'-3"	6"	6"	6"	6"	6"	6"	6"	6"	6"
<b>S3</b>						<b>S4</b>						<b>S5</b>											
Size	Spa.	No.	Length	Size	Spa.	No.	Length	Size	Spa.	No.	Length	Size	Spa.	No.	Length	Size	Spa.	No.	Length	Size	Spa.	No.	Length
5"	11"	33	3'-3"	6"	9"	33	3'-3"	4"	48"	4'-10"	5"	11"	33	3'-3"	6"	6"	6"	6"	6"	6"	6"	6"	6"

Minimum Splice Lengths	
#4	1'-4"
#5	1'-8"
#6	2'-0"

SUMMARY OF QUANTITIES		
Class AAA Concrete	20.0	C.Y.
Class AAA Concrete (AE)	0.0	C.Y.
Reinforcing Steel (Gr. 60)	2,250	Lbs.
Reinforcing Steel (Epoxy Coated)	0.0	Lbs.
Concrete for Seal Course (Set)	30.9	C.Y.

NO.	DATE	REVISIONS	BY	APP'D.

REVISED 10/09/01

**KANSAS DEPARTMENT OF TRANSPORTATION**

**SEDGWICK COUNTY**

**CAST IN PLACE**

**DOUBLE 10' x 5' RCBC x 2**

DESIGNED	CHECKED	QUANTITIES	TRAFFIC