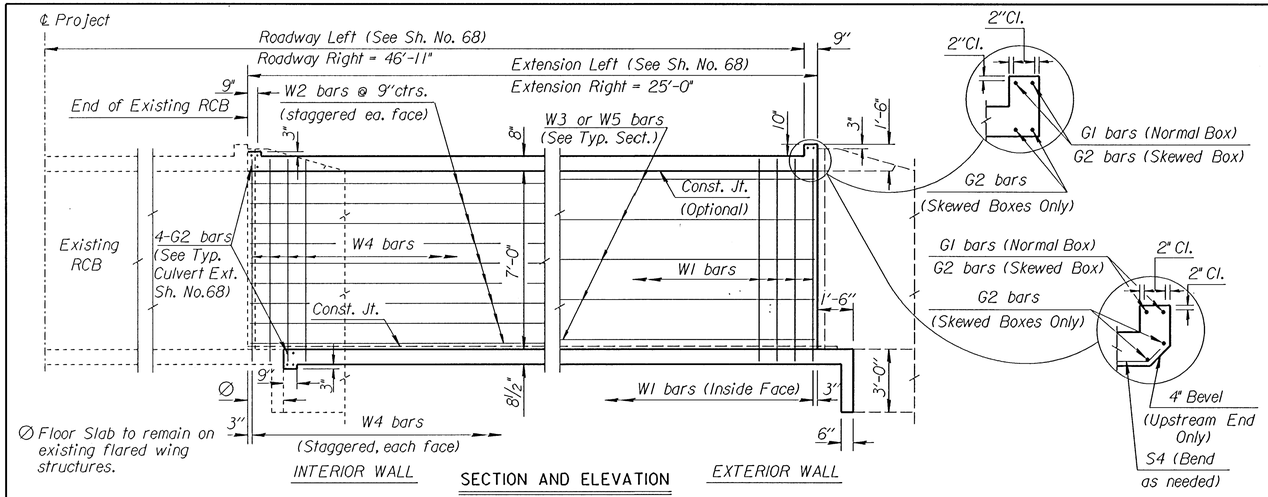
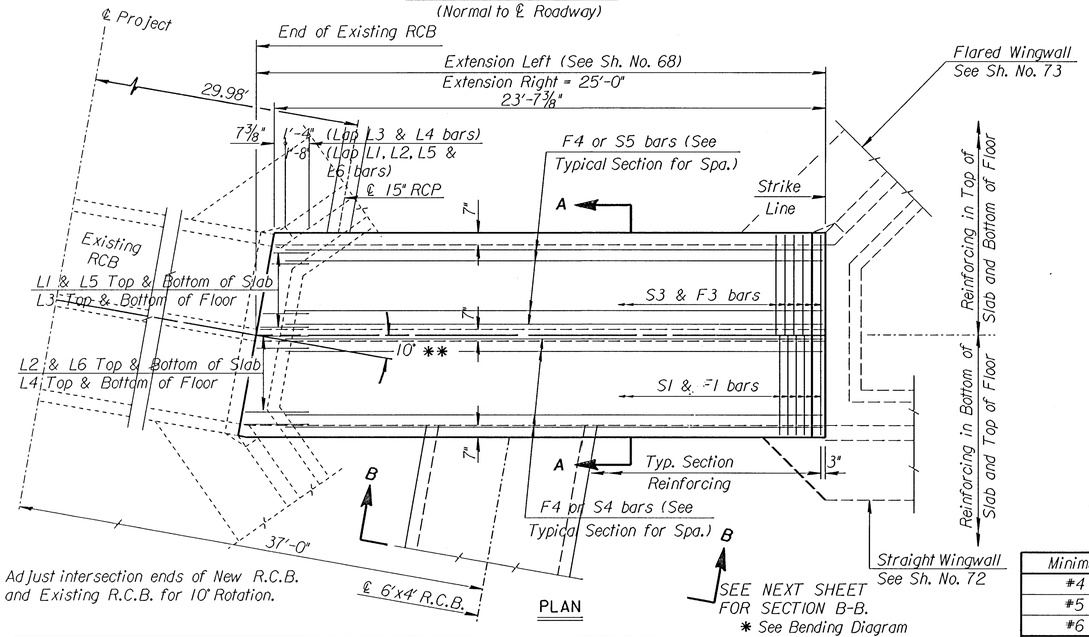
PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
618-34	1998	70	169



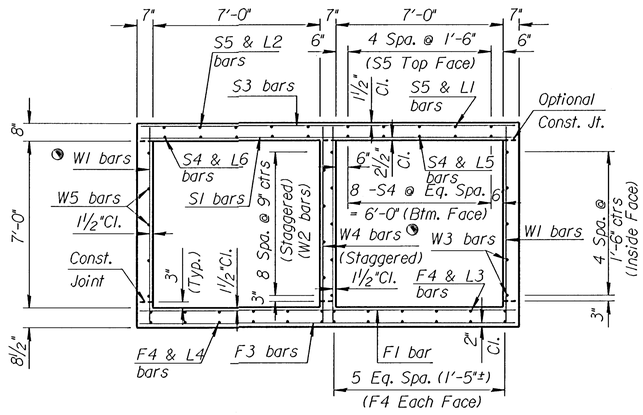
SECTION AND ELEVATION
(Normal to ℄ Roadway)



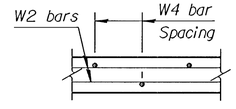
PLAN

See RCB Auxillary Details for Optional Splice.

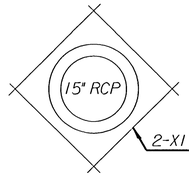
See Standard No. 80, Sheet No. 77 for additional details.



TYPICAL SECTION A-A



PLAN OF INTERIOR WALL



STORM SEWER
Ext. Rt. (East Wall Only)
Ext. Rt. (West Wall-See Next Sheet Section B-B)

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

Note:
Use only cast-in-place construction at this location

SUMMARY OF QUANTITIES

Class AAA Concrete	44.0	C.Y.
Class AAA Concrete (AE)	0.0	C.Y.
Reinforcing Steel (Gr. 60)	6590	Lbs.
Reinforcing Steel (Epoxy Coated)	0	Lbs.

CULVERT SUMMARY

	Flow Line Elev.	Crown Gr. Elev.	Design Fill Ht.	Skew	Wings	Scour Apron	Soil Saver	Granular Backfill	Concrete Barrel (Cu.Yds.)	Concrete Wings (Cu.Yds.)	Concrete Total (Cu.Yds.)	Reinf. Steel (Gr. 60) Barrel (Lbs.)	Reinf. Steel (Gr. 60) Wings (Lbs.)	Reinf. Steel (Gr. 60) Total (Lbs.)
Ext.Rt.	1340.50	1349.89	2	0	FLARED LT.	NO	NO	NO	30.71	13.31	44.02	5655.02	935.18	6590.20
					STRAIGHT RT.									

BAR SCHEDULE

	F1 Size	Spa.	No.	Length	L1 Size	Spa.	No.	Length	F3 Size	Spa.	No.	Length	F4 Size	No.	Length	S1 Size	Spa.	No.	Length	L2 Size	Spa.	No.	Length	S3 Size	Spa.	No.	Length	S4 Size	No.	Length	S5 Size	No.	Length	L3 Size	No.	Length	L4 Size	No.	Length	L5 Size	No.	Length
Ext.Rt.	6	7"	41	15'-5"	5	-	5	*	5	6"	48	15'-5"	4	24	21'-6"	6	7"	41	15'-5"	5	-	5	*	5	6"	48	15'-5"	5	16	21'-6"	4	10	21'-6"	4	12	*	4	12	*	5	8	*

	K1 Size	Spa.	No.	Length	K2 Size	Spa.	No.	Length	W1 Size	Spa.	No.	Length	W2 Size	Spa.	No.	Length	W3 Size	No.	Length	W4 Size	Spa.	No.	Length	G1 Size	No.	Length	G2 Size	No.	Length	L6 Size	Spa.	No.	Length	W5 Size	No.	Length	W6 Size	No.	Length	X1 Size	No.	Length
Ext.Rt.	6	7"	8	*	5	6"	10	*	4	9"	67	8'-1"	4	-	9	24'-8"	4	5	23'-4"	4	9"	34	8'-1"	5	2	15'-5"	5	8	15'-8"	5	-	8	*	4	5	26'-0"	6	2	12'-0"	6	8	4'-6"

Incr. from 3'-7" to 4'-9" by 0'-2"	L6
Cut 1 Each Length Incr. from 2'-4" to 3'-6" by 0'-2"	L5
Cut 1 Each Length Incr. from 3'-3" to 4'-6" by 0'-3"	L4
Cut 2 Each Length Incr. from 1'-11" to 3'-2" by 0'-3"	L3
Cut 2 Each Length Incr. from 3'-4" to 4'-4" by 0'-3"	L2
Cut 1 Each Length Incr. from 2'-0" to 3'-0" by 0'-3"	L1
Cut 1 Each Length Incr. from 1'-3" to 12'-7" by 2'-10"	K2
Cut 2 Each Length Incr. from 1'-8" to 11'-5" by 3'-3"	K1
Cut 2 Each Length	

BENDING DIAGRAM

GENERAL NOTES

LOADING: HS20-44 AASHTO Specifications, 1983 Edition.
UNIT STRESSES: Class AAA Concrete; f'c = 4,000 p.s.i.
Reinforcing Steel; fy = 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. Bevel all exposed edges with a ¾inch 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: Excavation shall not be paid for directly but shall be subsidiary to Class AAA Concrete.
SEAL COURSE: A Seal Course shall be required by the Engineer. The Seal Course shall be unreinforced Concrete (Commercial Grade) to a minimum depth of 3 inches or as determined by the Engineer. Concrete for the seal course shall be paid for at the unit price set for Concrete for Seal Course.
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 for at the determined Unit Price set for Foundation Stabilization. See Auxiliary Details.
QUANTITIES: The quantities shown in the Culvert Summary include apron and/or soil saver quantities when their construction is required by the plans. Payment for additional quantities that result from including seal course and/or floating apron, as a change in original plans, shall be made at the Unit Price bid for the various items involved.
GRANULAR BACKFILL (WINGWALLS): 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.

NO.	DATE	REVISIONS	BY	APP'D

KANSAS DEPARTMENT OF TRANSPORTATION
Sta. 59+09
DOUBLE 7' x 7' RCB
25'-0" EXT. RT. (10 DEGREE ROTATION)
~~BR-2-07-07~~ SEDGWICK CO.

FHWA APPROVAL		6-5-98	APP'D	KENNETH F. HURST
DESIGNED	DETAILED		QUANTITIES	TRACED
DESIGN CK.	DETAIL CK.		QUAN.CK.	TRACE CK.

VERSION: 5.1.0 COMPILED: 03/01/95

DESIGN: DESIGN DATE; DETAILS DATE; QUANTITIES DATE; TRACING DATE; RETRACED DATE

DGN File: i:/1995/95297/002/7xtextrt.dgn
Plotted by: DJW 11-5-97 View=