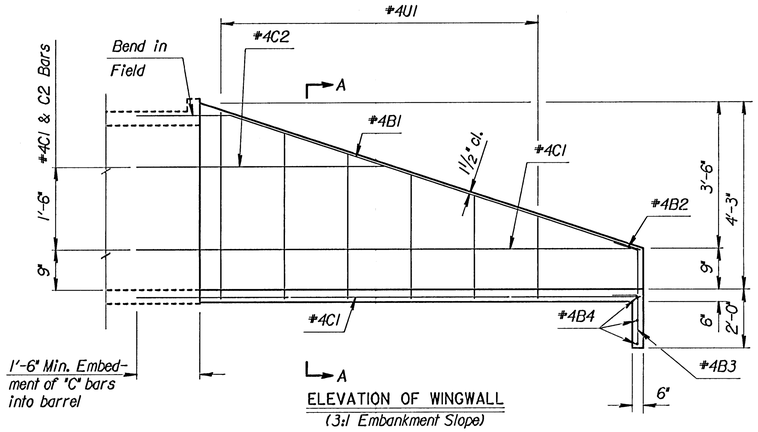
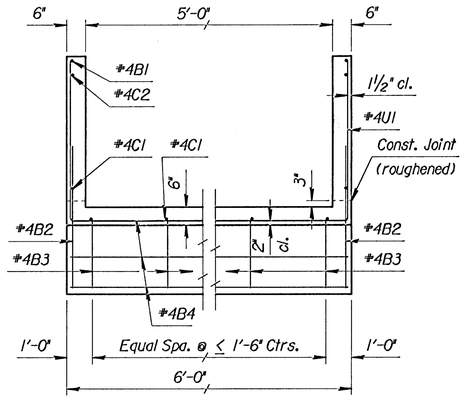
VERSION: 5.1.0 COMPILED: 02/09/99

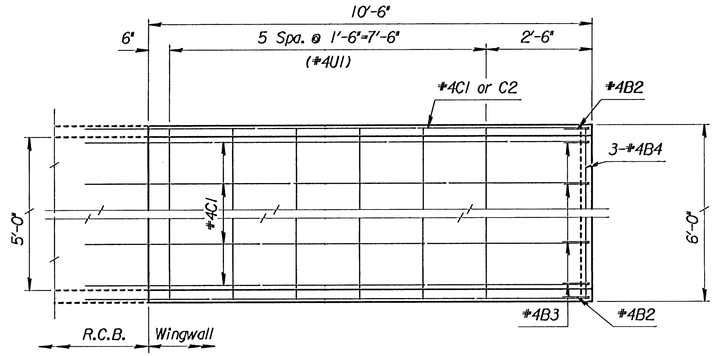
FHWA REGION NO.	STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
7	KANSAS		19	11	46



ELEVATION OF WINGWALL
(3:1 Embankment Slope)

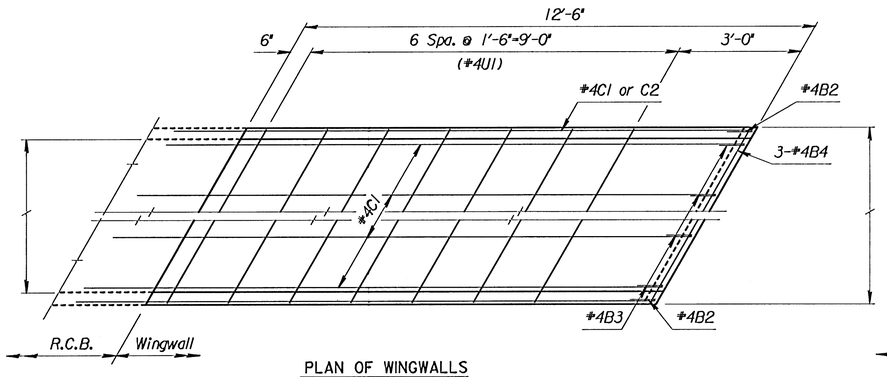


Section A-A

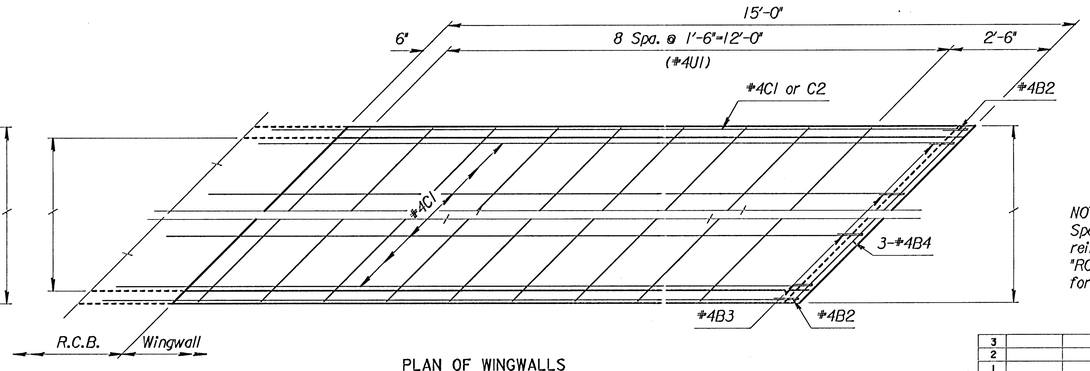


PLAN OF WINGWALLS
(Normal RCB)

NOTE:
Wingwall floor and toewall shall be constructed with the RCB floor. Wingwalls to be constructed with RCB walls.



PLAN OF WINGWALLS
(30° Skewed RCB)



PLAN OF WINGWALLS
(45° Skewed RCB)

NOTE:
Space Weepholes to clear reinforcing steel. See "RCB Auxiliary Details" sheet for additional weephole details.

GENERAL NOTES

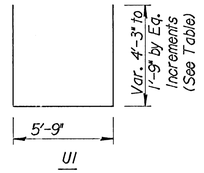
UNIT STRESSES: Class AAA Concrete; f'c = 4,000 p.s.i.
Reinforcing Steel; fy = 60,000 p.s.i.

CONCRETE: Class AAA Concrete shall be used throughout. Bevel all exposed edges with a ¾ inch triangular moulding.

REINFORCING: All reinforcing shall conform to ASTM A615, Grade 60. Welded wire fabric shall conform to ASTM A185. Wire fabric shall be electrically welded and shall be composed of 6x6-W1.4xW1.4 welded wire fabric and shall be classified as pounds of reinforcing.

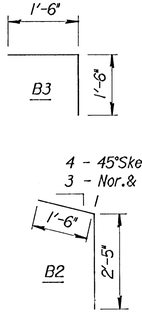
QUANTITIES: Wingwall Quantities include all quantities outside the neat lines of the box, excluding the hubguard.

FOUNDATION AND BACKFILL MATERIAL: Soils judged as high plasticity clays, fat clays, expansive clays, or organic clays are unsuitable for foundation and/or backfill material for wingwalls and will not be used. Where these conditions exist, Foundation Stabilization and/or Granular Backfill (Wingwalls) shall be used as determined by the Engineer. See "RCB Auxiliary Details" sheet for additional details.



SKEW	INCREMENT
0°	6"
30°	5"
45°	4"

BENDING DIAGRAMS
All dimensions are out to out of bars.



* See Bending Diagram

NOTE: Reinforcing Bar List is for both wings at one end of box only.	#4 B1		#4 B2 *		#4 B3 *		#4 B4				#4C1		#4C2				#4U1 *					
	No.	Length	No.	Length	No.	Length	No.	Length	No.	Length	No.	Length	No.	Length	No.	Length	No.	Length	No.	Length	No.	Length
0 °Skew	2	12'-6"	2	3'-11"	4	3'-0"	3	5'-7"	0		6	11'-10"	2	7'-2"			6	*				

WINGWALL QUANTITIES (One End Only)		
Class AAA Concrete	2.31	CY.
Reinforcing Steel	145.23	Lbs.

Quantities listed are included in the Summary of Quantities shown on the RCB.

NO.	DATE	REVISIONS	BY	APP'D
3				
2				
1				

KANSAS DEPARTMENT OF TRANSPORTATION
Sta. 251+50.42
STRAIGHT WINGWALLS
3 FT. RISE (0°SKEW)

BR 11.00.03 SEDGWICK CO.

FHWA APPROVAL		6-5-91	APP'D	KENNETH F. HURST
DESIGNED	DETAILED		QUANTITIES	TRACED
DESIGN CK.	DETAIL CK.		QUAN.CK.	TRACE CK.

ORIG. FROM BRASS	PROJ.	CO. CHAG.
DESIGN	DESIGN	DATE
DESIGN	CHECK	DATE
ACTUAL	CHECK	DATE
QUANTITIES	CHECK	DATE
DETAILED	CHECK	DATE
TRACED	CHECK	DATE

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