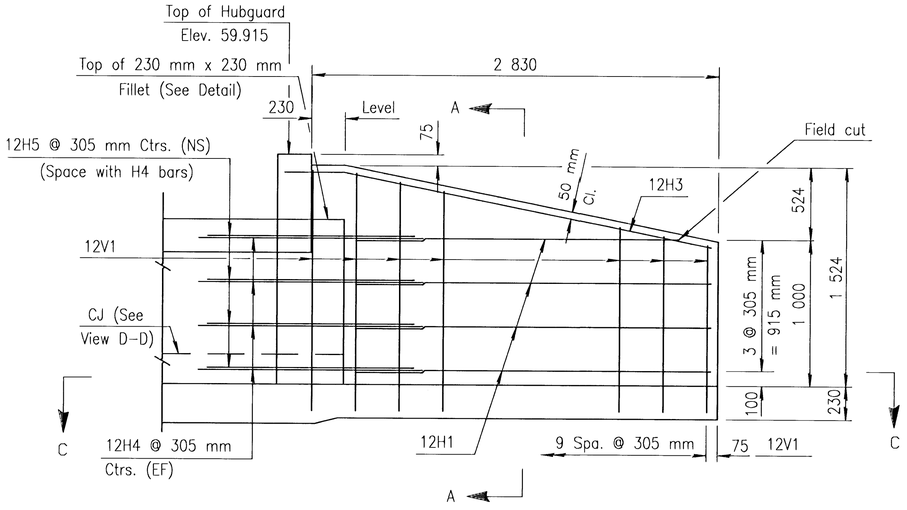
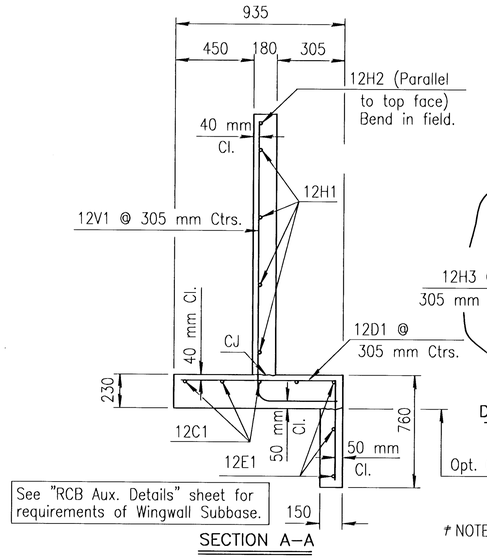
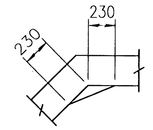
FHWA REG NO	STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
7	KANSAS	87N-0200-01	2001	25	78



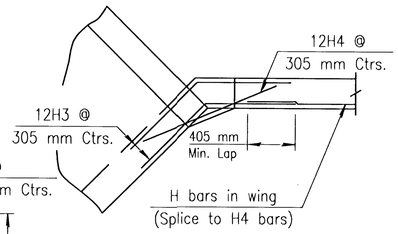
ELEVATION OF WINGWALL
(Backface Shown)



SECTION A-A



Fillet Detail



DETAIL OF 230 mm x 230 mm FILLET
(Plan View)

GENERAL NOTES

UNIT STRESSES: Class AAA Concrete f'c= 28 MPa
Reinforcing Steel; fy= 420 MPa

CONCRETE: Class AAA Concrete shall be used throughout. Bevel all exposed edges with a 20 mm triangular moulding.

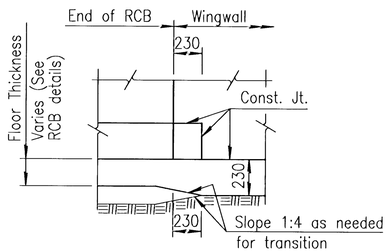
REINFORCING: All reinforcing shall conform to ASTM A616M-96, Grade 420. Welded Wire Fabric shall conform to ASTM A185M. All dimensions relative to reinforcing steel shall be to center-line of bar unless otherwise noted.

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

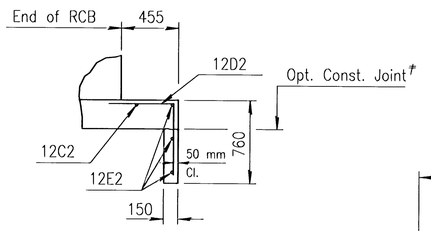
APRON: A 125 mm concrete slab shall be constructed between the downstream wings in locations subject to scour only when specified on the plans or by the Engineer. Wire Reinforcing mesh shall be electrically welded and shall be composed of 150x150-MW10xMW10 welded wire fabric and shall be classified as kilograms of reinforcing.

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 Back (Wingwalls) shall be used as determined by the Engineer. See "RCB Auxiliary Details" sheet for additional details.

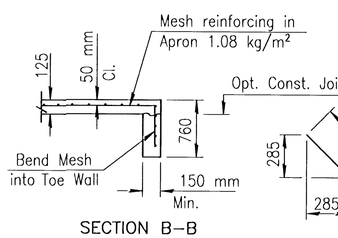
Floor Thickness Varies (See RCB details)



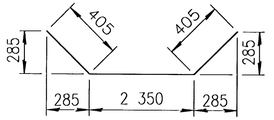
VIEW D-D



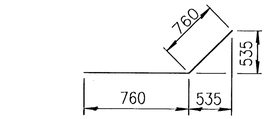
SECTION E-E



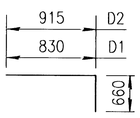
SECTION B-B



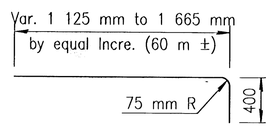
E2



H3

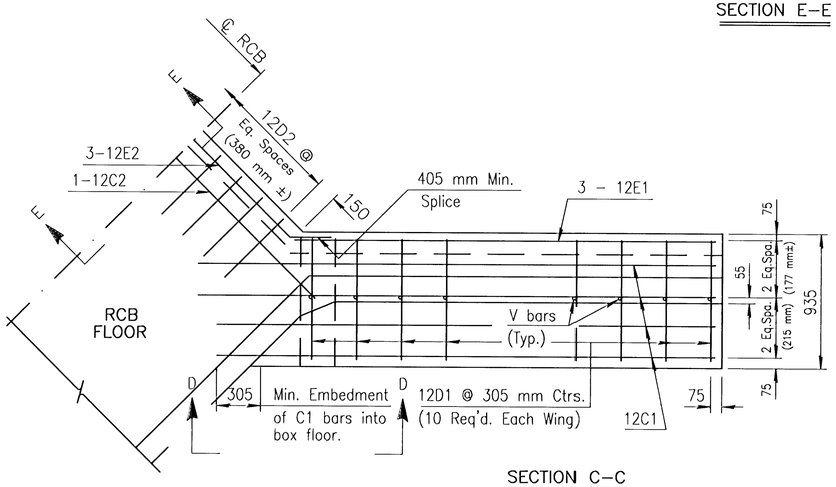


D1,D2

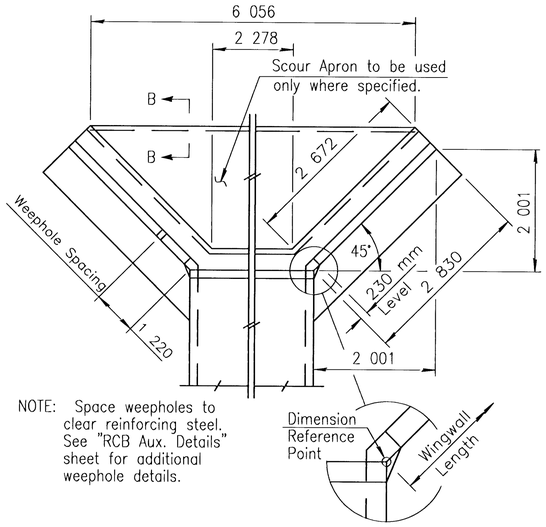


V1
(2 Req'd., each length)

BENDING DIAGRAM
(All dimensions are out to out of bars.)



SECTION C-C
(Plan of Footing)



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

WING DIMENSIONS FOR NORMAL BOX
(1:3.5 Embankment Slope)

GENERAL NOTES

* NOTE: Const. Jt. may be used at Contractor's option when approved by the Engineer. DI bars or mesh may be spliced thus: ⌐¬ Minimum overlap shall be 380 mm. No increase in quantities or cost shall be allowed when Contractor elects this option.

NOTE: Reinforcing Bar List is for both wings at one end of box only.

* See Bending Diagram

		12C1	12D1	12E1	12C2	12D2	12E2	12V1	12H1	12H2	12H3	12H4
0° Skew	No.	8	20 *	6	1	6 *	3 *	20	8	2	16	8 *
	Length	3 460	1 490	2 630	2 640	1 575	3 160	*	2 450	3 020	1 520	840

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

WINGWALL QUANTITIES	
Class AAA Concrete:	
Wingwalls	3.4 m³
Apron	1.5 m³
Soil Saver	0.0 m³
Reinforcing Steel	186 kg
Welded Wire Fabric	13 kg

NO.	DATE	REVISIONS	BY	APP'D

KANSAS DEPARTMENT OF TRANSPORTATION
Sta. 0+864
FLARED WINGWALLS
0.915 m Rise (0° SKEW)
BR 10.00.05 SI SEDGWICK CO.

FHWA APPROVAL		APP'D		
DESIGNED MDK	DETAILED	QUANTITIES MDK	TRACED	
DESIGN CK.	DETAIL CK.	QUAN.CK.	TRACE CK.	

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