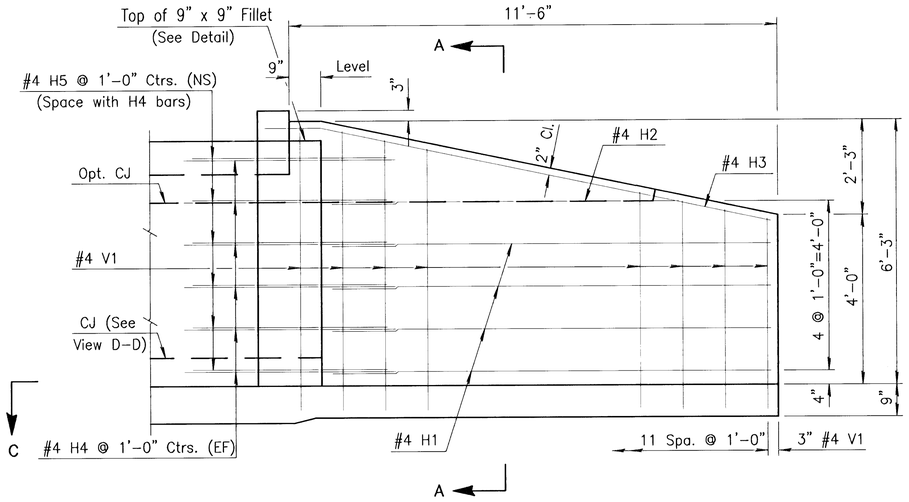
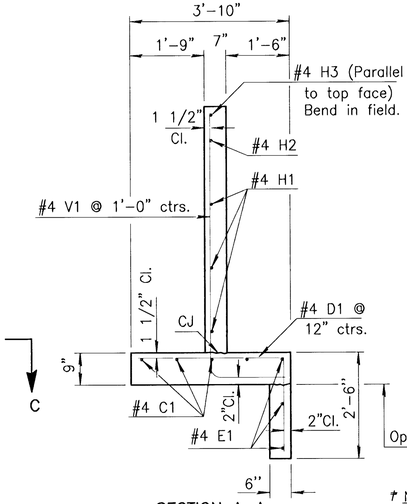
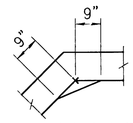


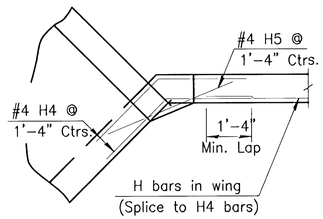
ELEVATION OF WINGWALL
(Backface Shown)



SECTION A–A



Fillet Detail



DETAIL OF 9" x 9" FILLET
(Plan View)

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 3/4 inch triangular moulding.

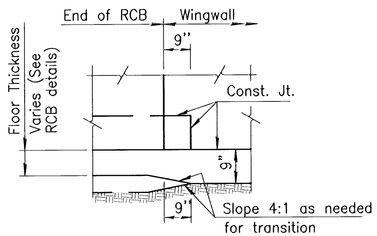
REINFORCING: All reinforcing shall conform to ASTM A615, Grade 60. Welded Wire Fabric shall conform to ASTM A185. All dimensions relative to reinforcing steel shall be to center-line of bar unless otherwise noted.

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

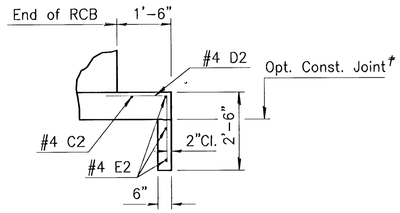
APRON: A 5" concrete slab shall be constructed between the down-stream wings in locations subject to scour only when specified on the plans or by the Engineer. Wire Reinforcing mesh shall be electrically welded and shall be composed of 6 x 6-W1.4 x W1.4 welded wire fabric and shall be classified as pounds 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 Stabiliation and/or Granular Backfill (Wingwalls) shall be used as determined by the Engineer.

† NOTE: Const. Jt. may be used at Contractor's option when approved by the Engineer. D1 bars or mesh may be spliced thus: ⌐¬ Minimum overlap shall be 1'-3". No increase in quantities or cost shall be allowed when Contractor elects this option.

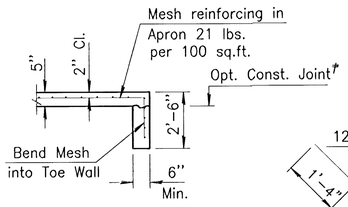


VIEW D–D

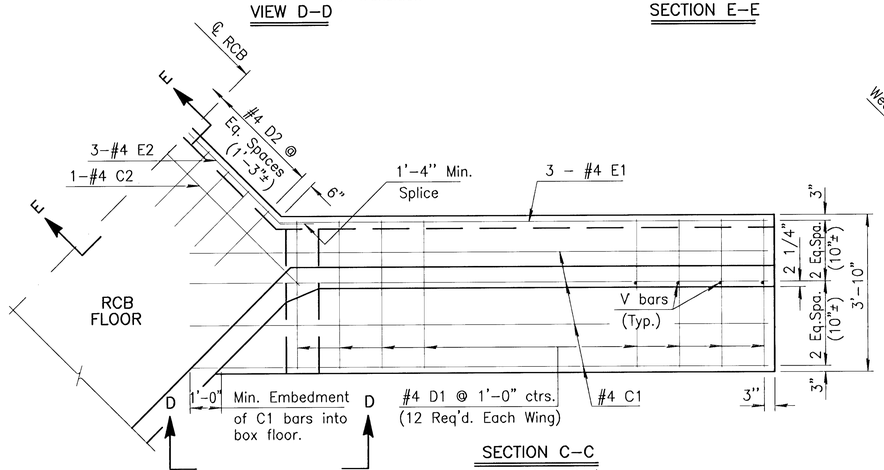


SECTION E–E

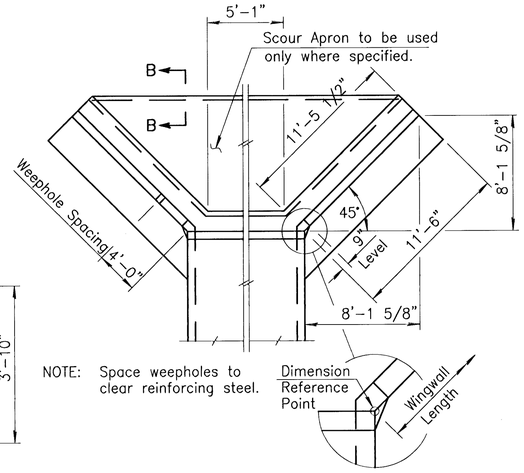
NOTE:
EF = Each Face
NS = Near Side
FS = Far Side
CJ = Const. Joint



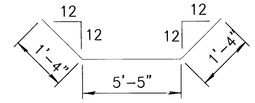
SECTION B–B



SECTION C–C
(Plan of Footing)

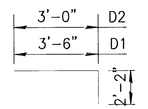


WING DIMENSIONS FOR NORMAL BOX
(3 1/2:1 Embankment Slope)

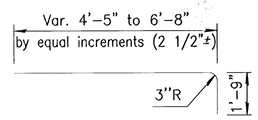


E2

H4



D1,D2



V1
(2 Req'd., each length)

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

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

✳ See Bending Diagram

		#4C1	#4D1	#4E1	#4C2	#4D2	#4E2	#4V1	#4H1	#4H2	#4H3	#4H4	#4H5
0° Skew	No.	8	24 ✳	6	1	4 ✳	3 ✳	24	8	2	2	24 ✳	12
	Length	14'-0"	5'-8"	11'-3"	7'-8"	5'-2"	8'-1"	✳	10'-4"	8'-4"	12'-4"	5'-0"	3'-6"

WINGWALL QUANTITIES
(One End Only)

Class AAA Concrete:		
Wingwalls	6.50	CY.
Apron	2.48	CY.
Soil Saver	0.00	CY.
Reinforcing Steel	553.83	Lbs.
Welded Wire Fabric	33.68	Lbs.

NO.	DATE	REVISIONS	BY	APP'D

~~KANSAS DEPARTMENT OF TRANSPORTATION~~

North Pond

FLARED WINGWALLS
5 FT. RISE (0° SKEW)

~~BR10.00.05~~ SEDGWICK CO.

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

FINAL

Designed By: J. Ubert / B. Kulla
Drawn By: B. Kulla
Poe Job No.: 1748A
Date: May 2003

Sheet 73 of 88

FALCON FALLS – PHASE 1
STREET IMPROVEMENTS
WINGWALL (5' RISE) DETAILS
CITY OF WICHITA, KANSAS
NEIL D. CARLE, P.E. - CITY ENGINEER
C.O.W. Project # 472-83687 O.C.A. # 765782

No.	Date	By	Approved	Revision

POE & ASSOCIATES OF KANSAS, INC.
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Phone 316/685-4114 ■ FAX 316/685-4444