

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	468-83775	2004	23	31

**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 (AE) shall be used throughout. Bevel all exposed edges with a  $\frac{3}{4}$  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.

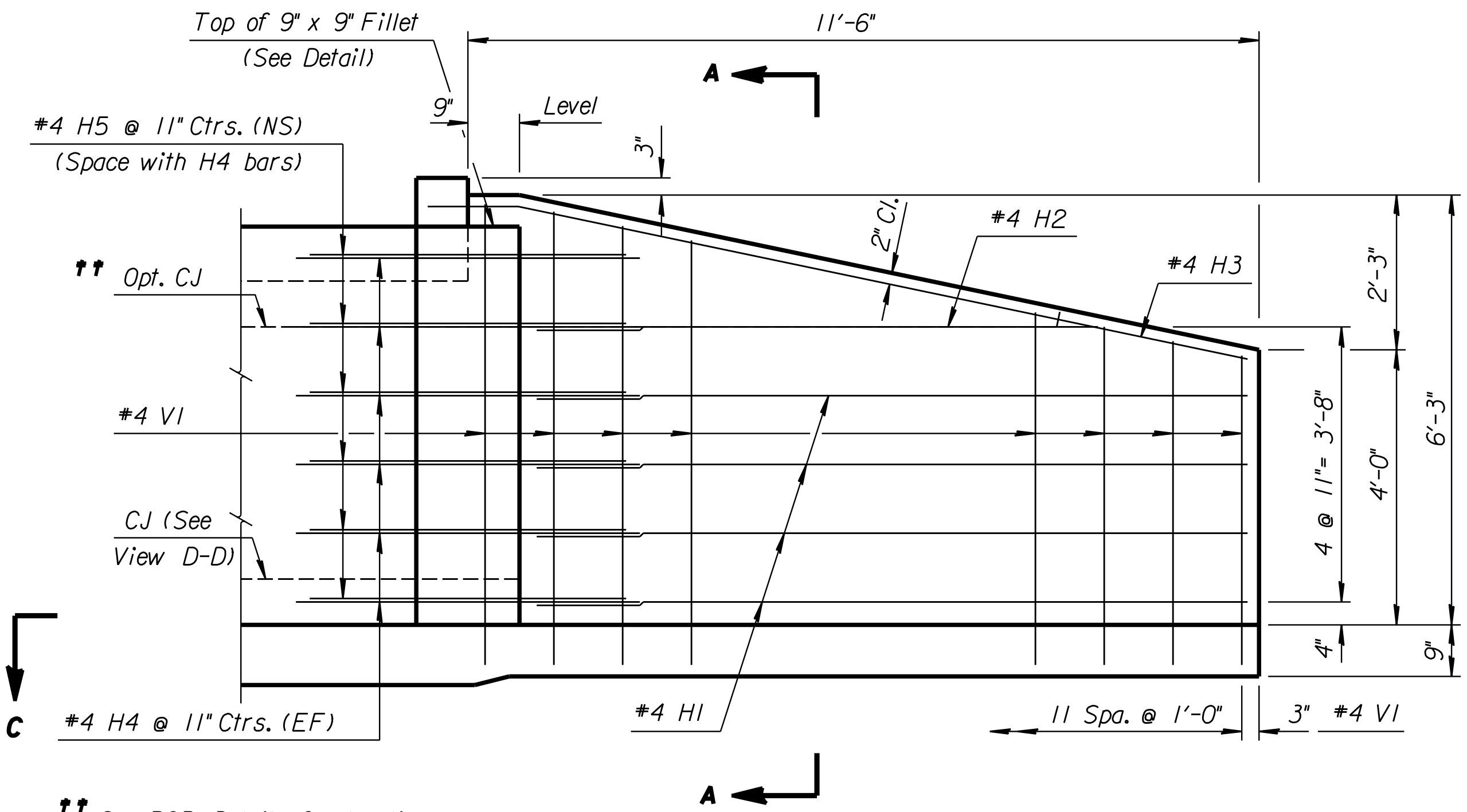
**APRON:** A 5' concrete slab shall be constructed between the downstream wings in locations subject to scour only when specified on the plans or by the Engineer. Wire Reinforcing mesh shall be electrically welded and shall be composed of 6 x 6-W1.4 x W1.4 welded wire fabric and shall be classified as 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 Stabilization and/or Granular Backfill (Wingwalls) shall be used as determined by the Engineer. See "RCB Auxiliary Details" sheet for additional details.

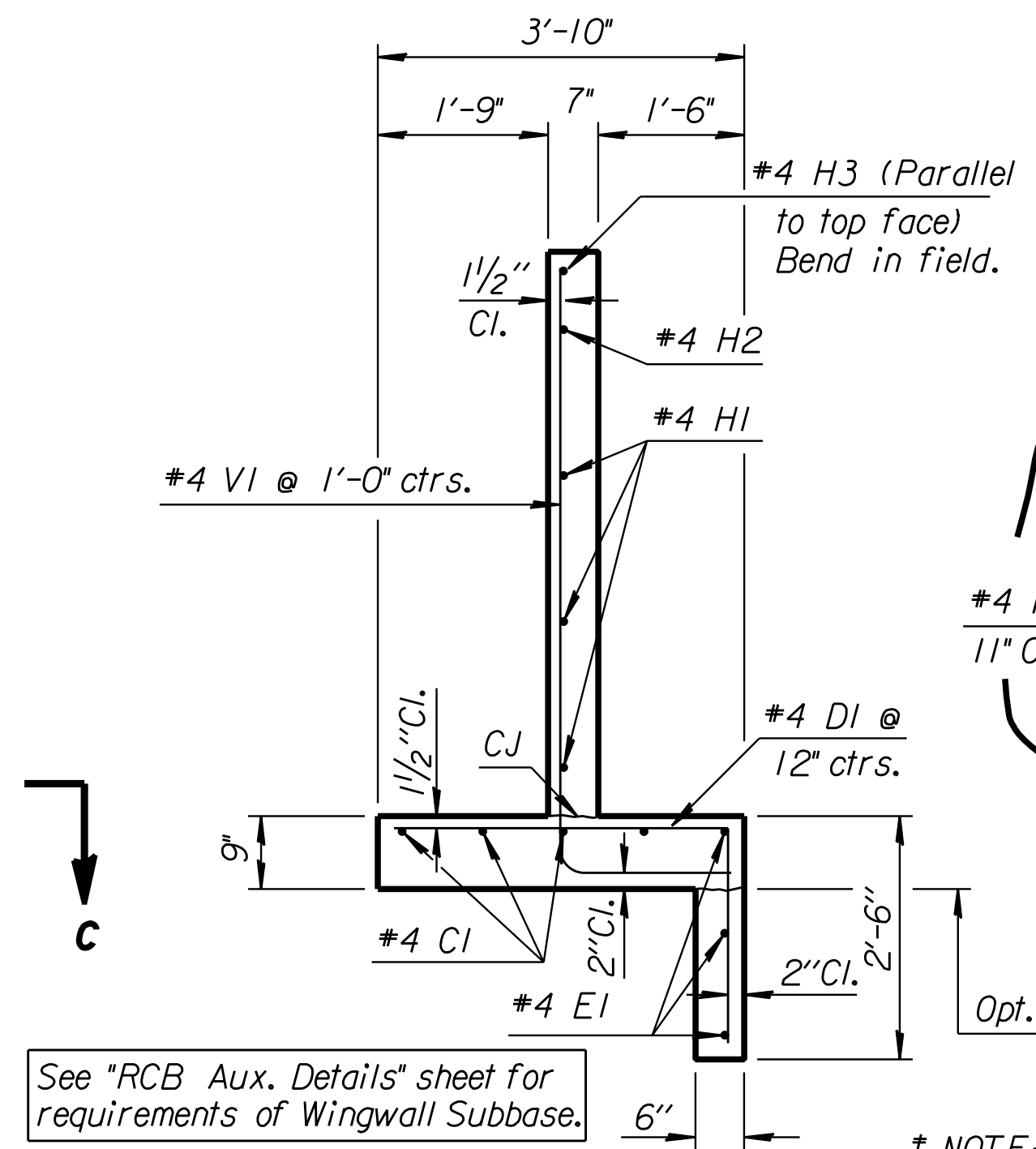
VERSION: 5.1.0 COMPILED: 03/01/95

CO.	CHECK	DATE
PROJ.	DESIGN	DATE
DESIGN	DETAIL	DATE
QUANTITIES	DATE	DATE
TRACING	DATE	DATE
RETRACTED	DATE	DATE

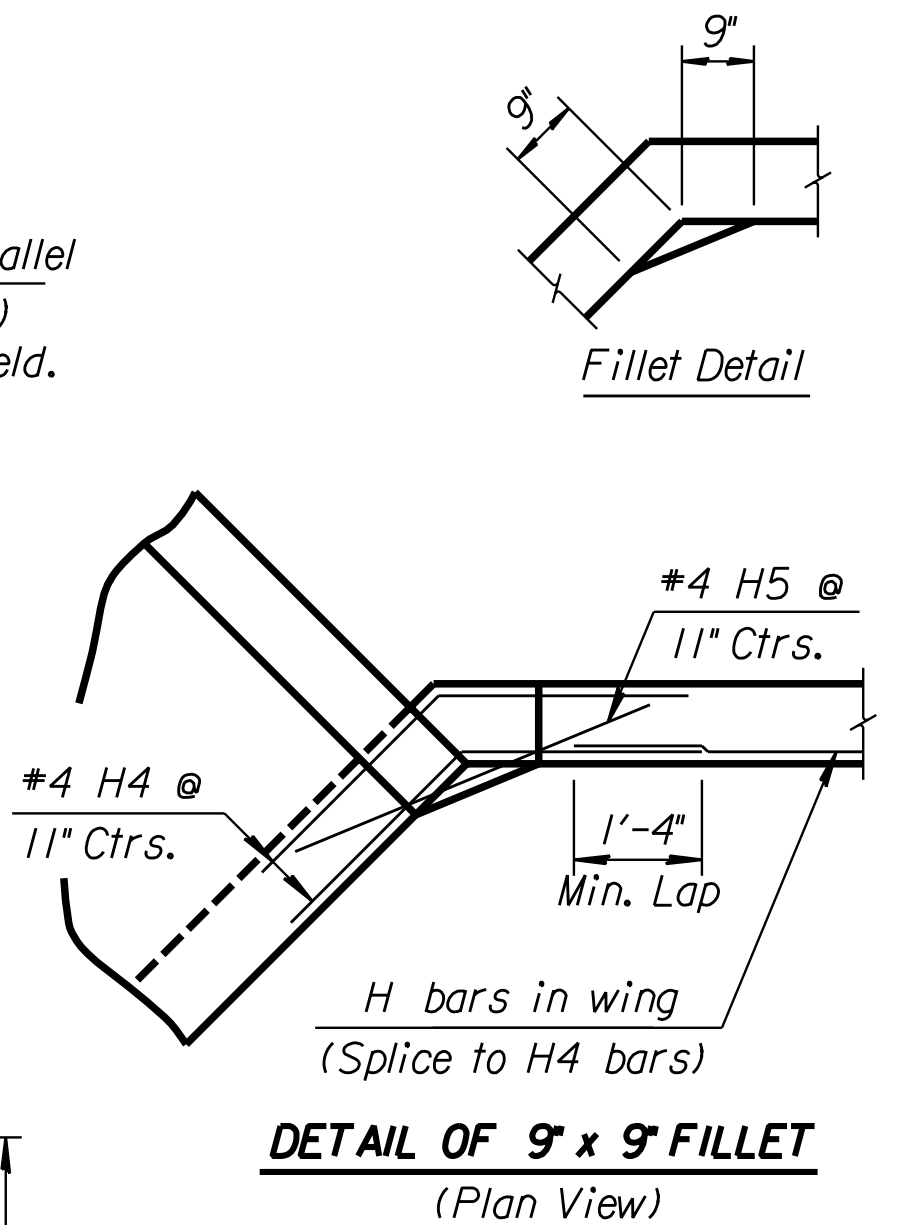
Drawn By: KDOT/RAS  
DGN File: i:\2004\04106\newplans\3-8x5rcb.dgn  
Plotted: r.ras 3-11-2004 View: PLOT10



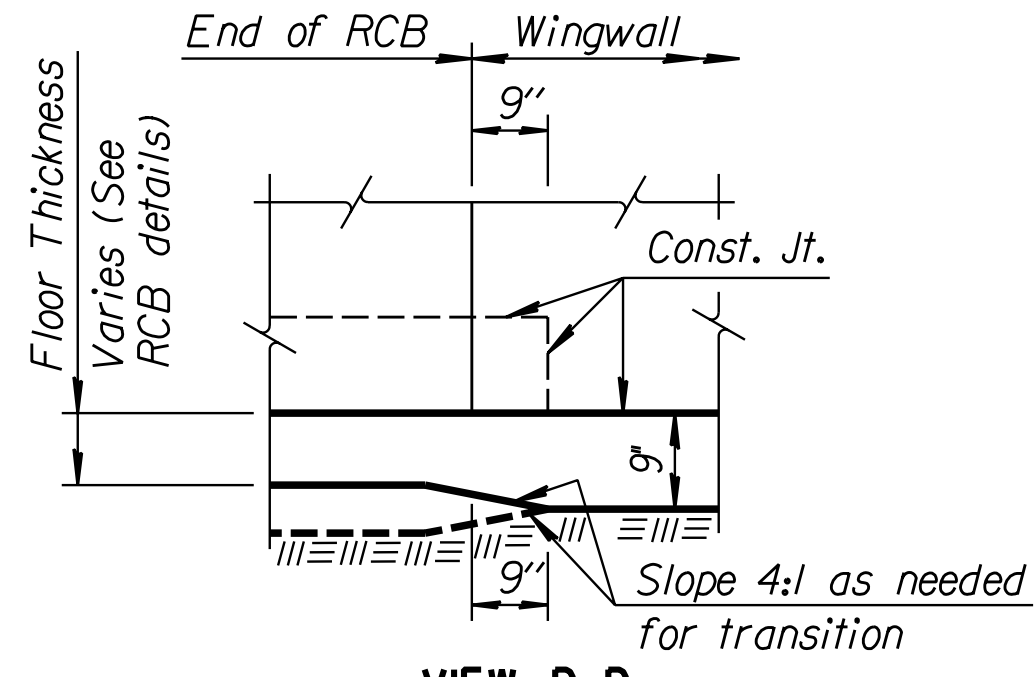
**ELEVATION OF WINGWALL**  
(Backface Shown)



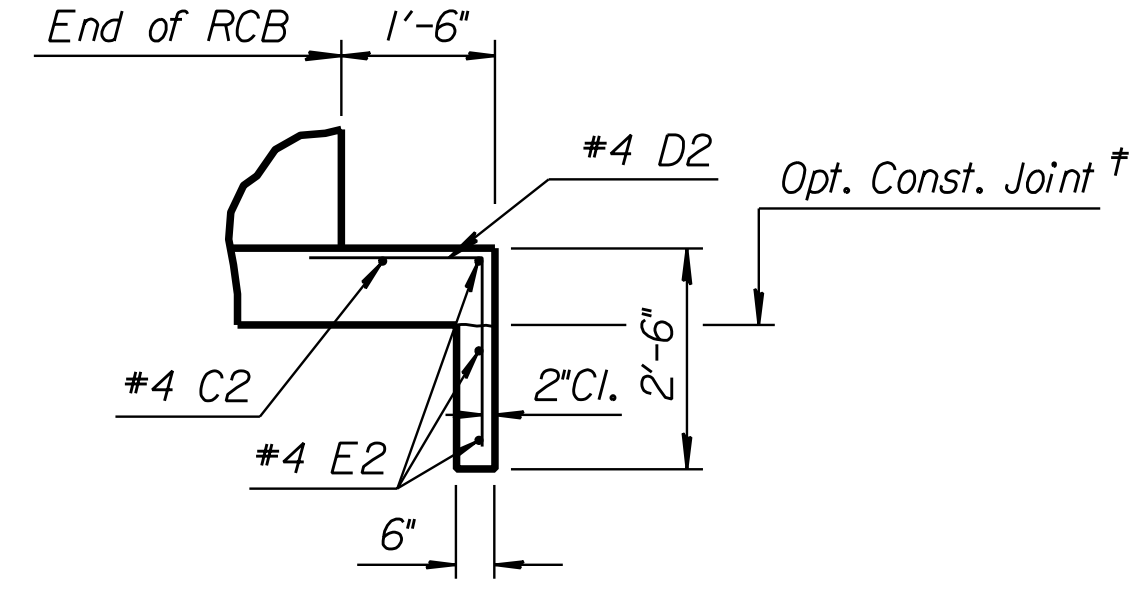
**SECTION A-A**



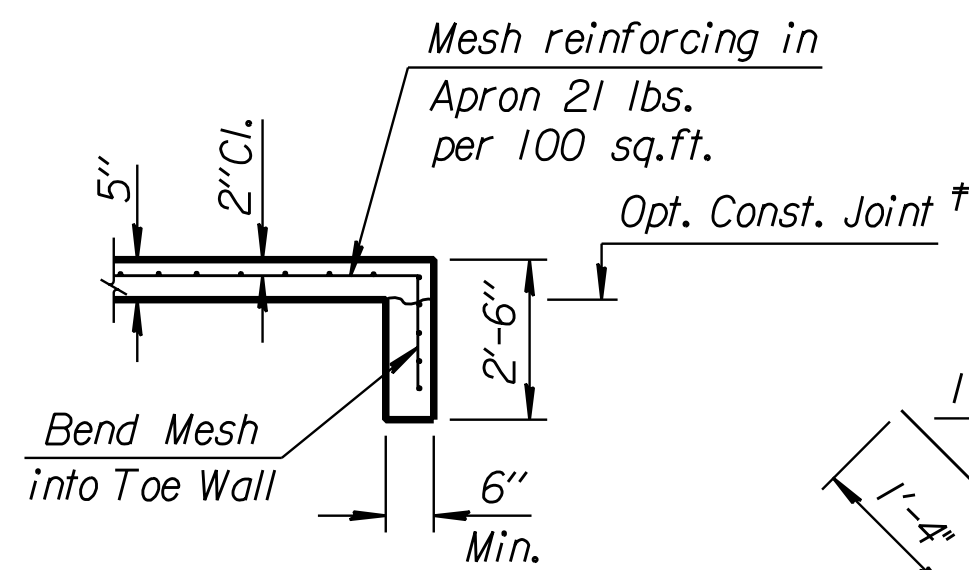
**DETAIL OF 9" x 9" FILLET**  
(Plan View)



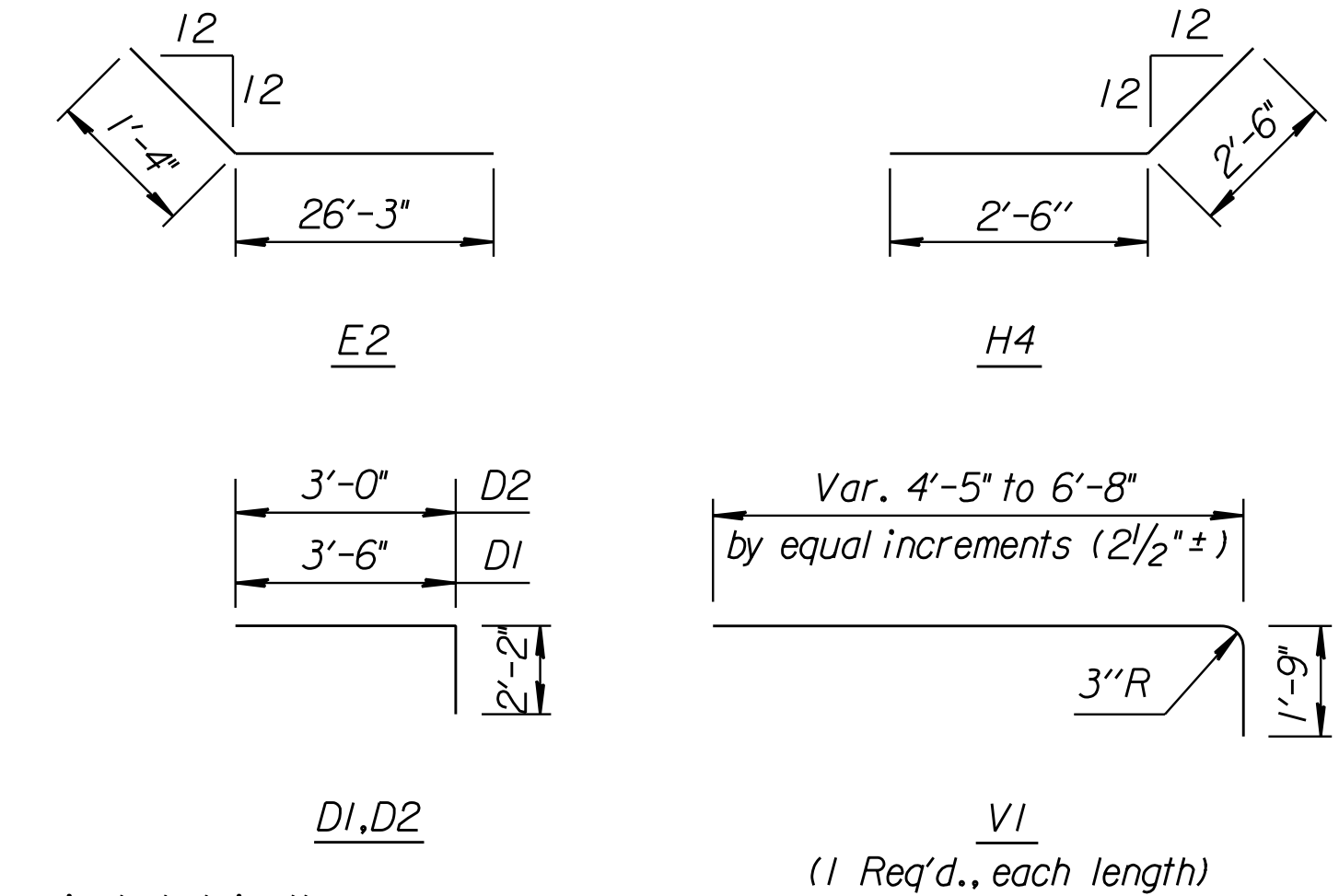
**VIEW D-D**



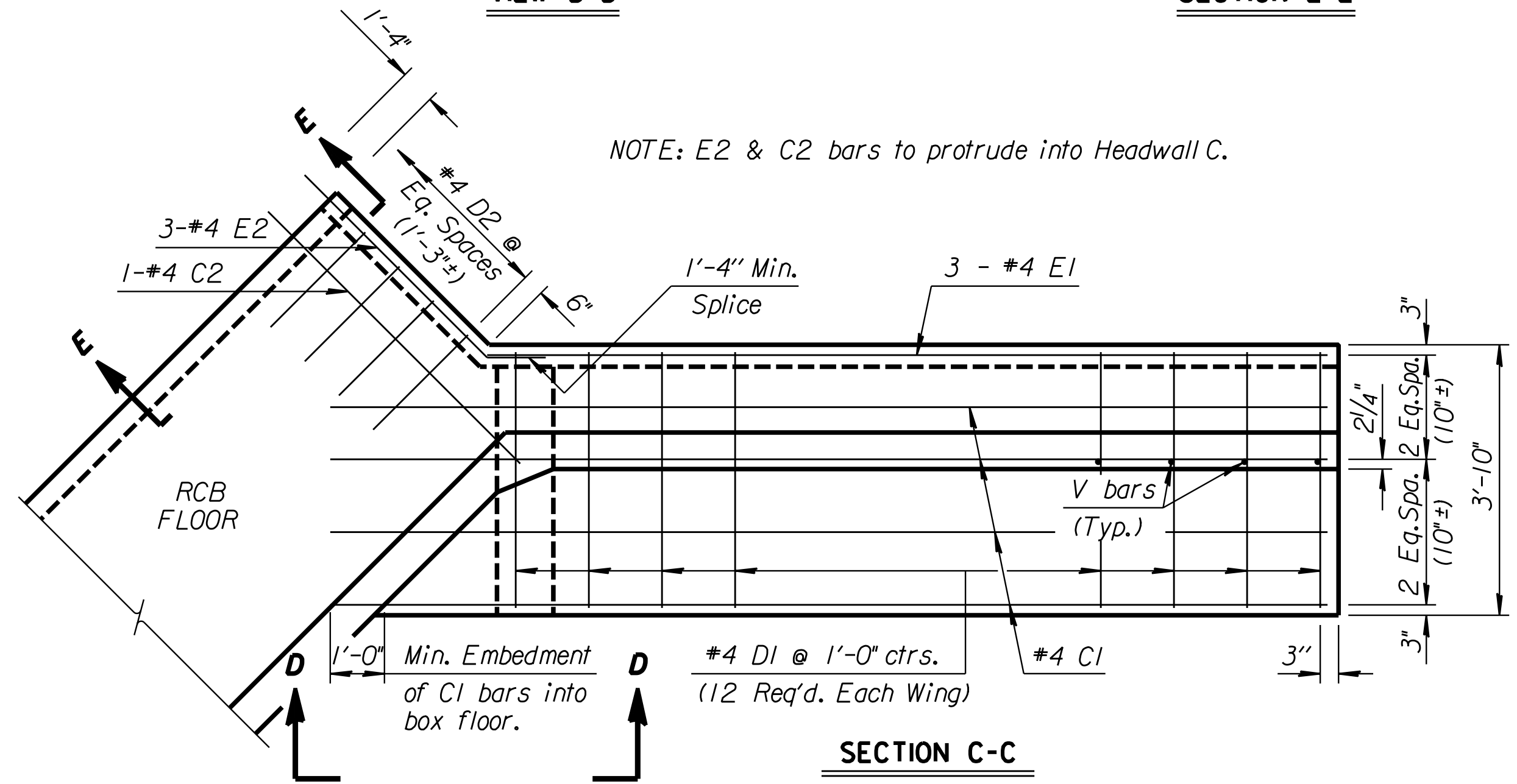
**SECTION E-E**



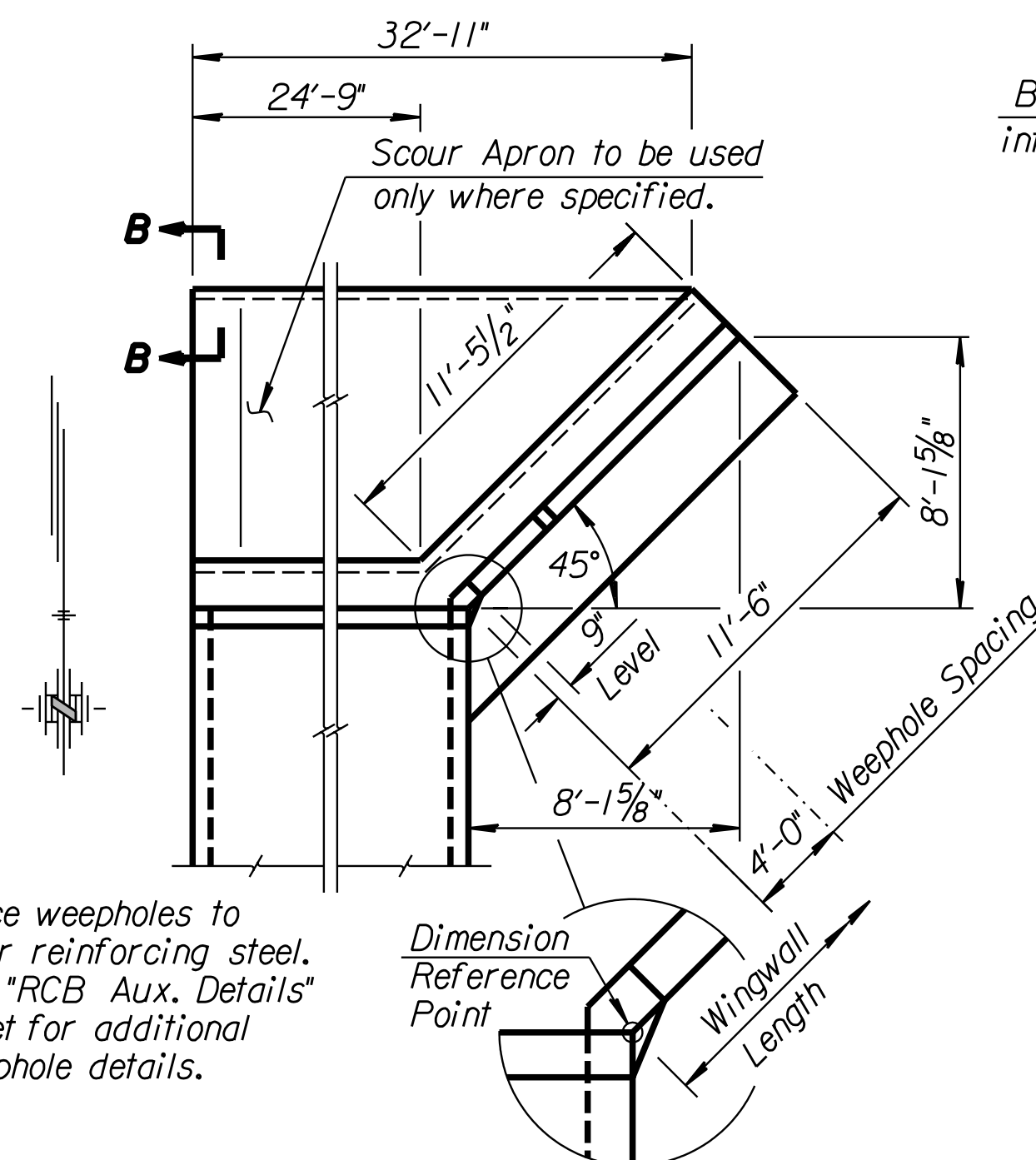
**SECTION B-B**



**BENDING DIAGRAM**



**SECTION C-C**  
(Plan of Footing)



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

WINGWALL QUANTITIES		
(One End Only)		
Class AAA Concrete:		
Wingwalls	-----	4.87 CY.
Apron	-----	0.00 CY.
Reinforcing Steel		
	-----	401.8 Lbs.
Welded Wire Fabric		
	-----	0.00 Lbs.

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

0° Skew	#4 Bars											
	No.	#4C1	#4D1	#4E1	#4C2	#4D2	#4E2	#4V1	#4H1	#4H2	#4H3	#4H4
No.	4	12*	3	1	20*	3*	12	4	1	1	12*	6
Length	14'-0"	5'-8"	11'-3"	27'-2"	5'-2"	27'-7"	*	10'-4"	8'-4"	12'-4"	5'-0"	3'-6"

\* See Bending Diagram

NO.	DATE	REVISIONS	BY	APP'D
<b>KANSAS DEPARTMENT OF TRANSPORTATION</b> Str. No. 614-33-4506      Sta. I22+40.37 <b>FLARED WINGWALLS</b> <b>5'-0" RISE (O'SKEW)</b> <b>(HEADWALL B)</b>				
BR 10.00.05		SEDGWICK CO.		
DESIGNED	TRACED	QUANTITIES	KENNETH F. MURST	
DESIGN CK.	DETAIL CK.	QUAN. CK.	TRACE CK.	