

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	87 N-0514-01	2010	44	148

GENERAL NOTES

UNIT STRESSES: Grade 4.0 Concrete; $f'c = 4,000$ p.s.i.
Reinforcing Steel; $f_y = 60,000$ p.s.i.

CONCRETE: Grade 4.0 Concrete shall be used throughout. Bevel all exposed edges with a $\frac{3}{4}$ inch triangular moulding.

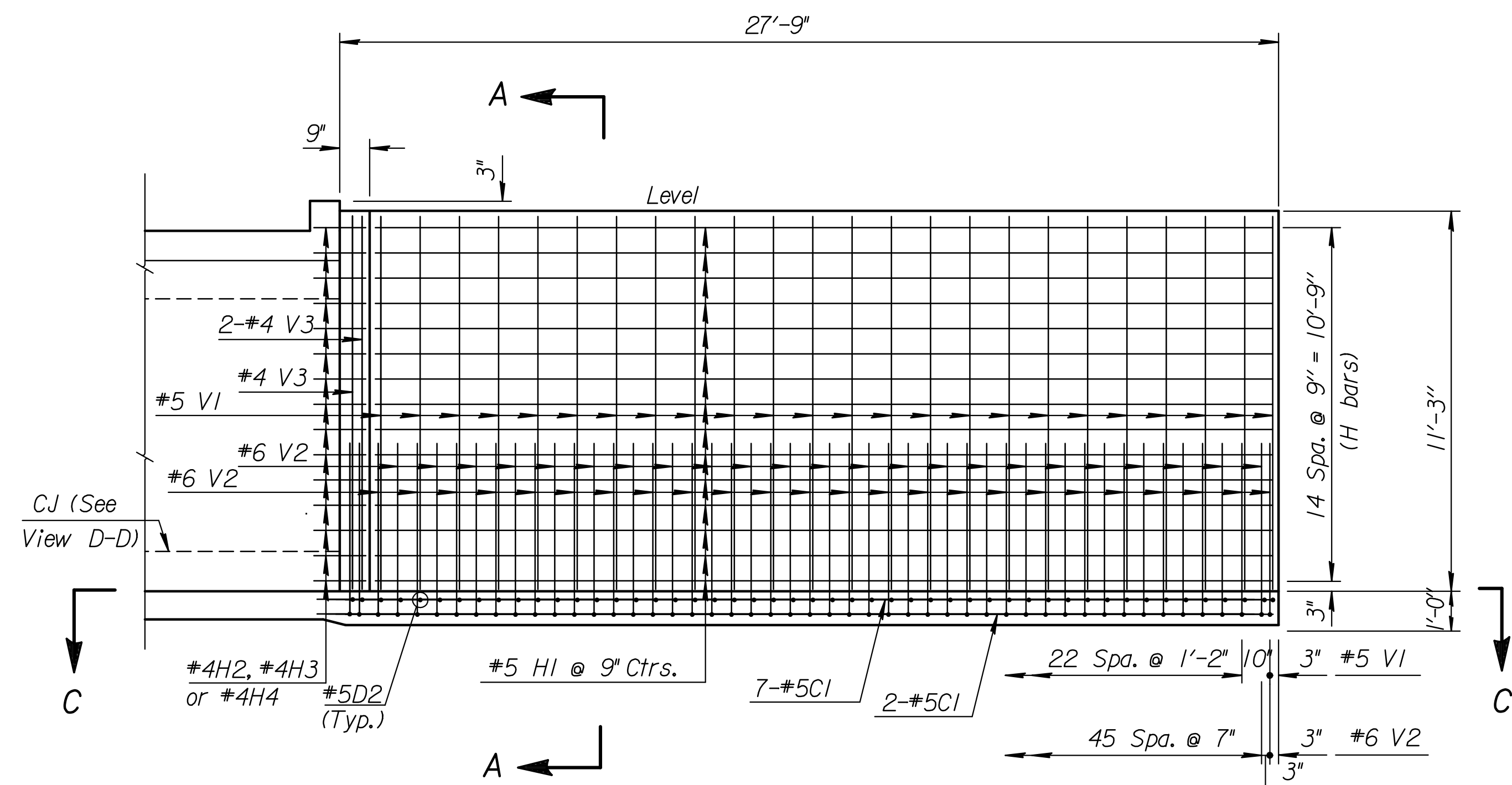
REINFORCING: All reinforcing shall conform to ASTM A615, Grade 60. Welded Wire Fabric shall conform to ASTM A185. All dimensions relative to reinforcing steel shall be to center-line of bar unless otherwise noted.

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

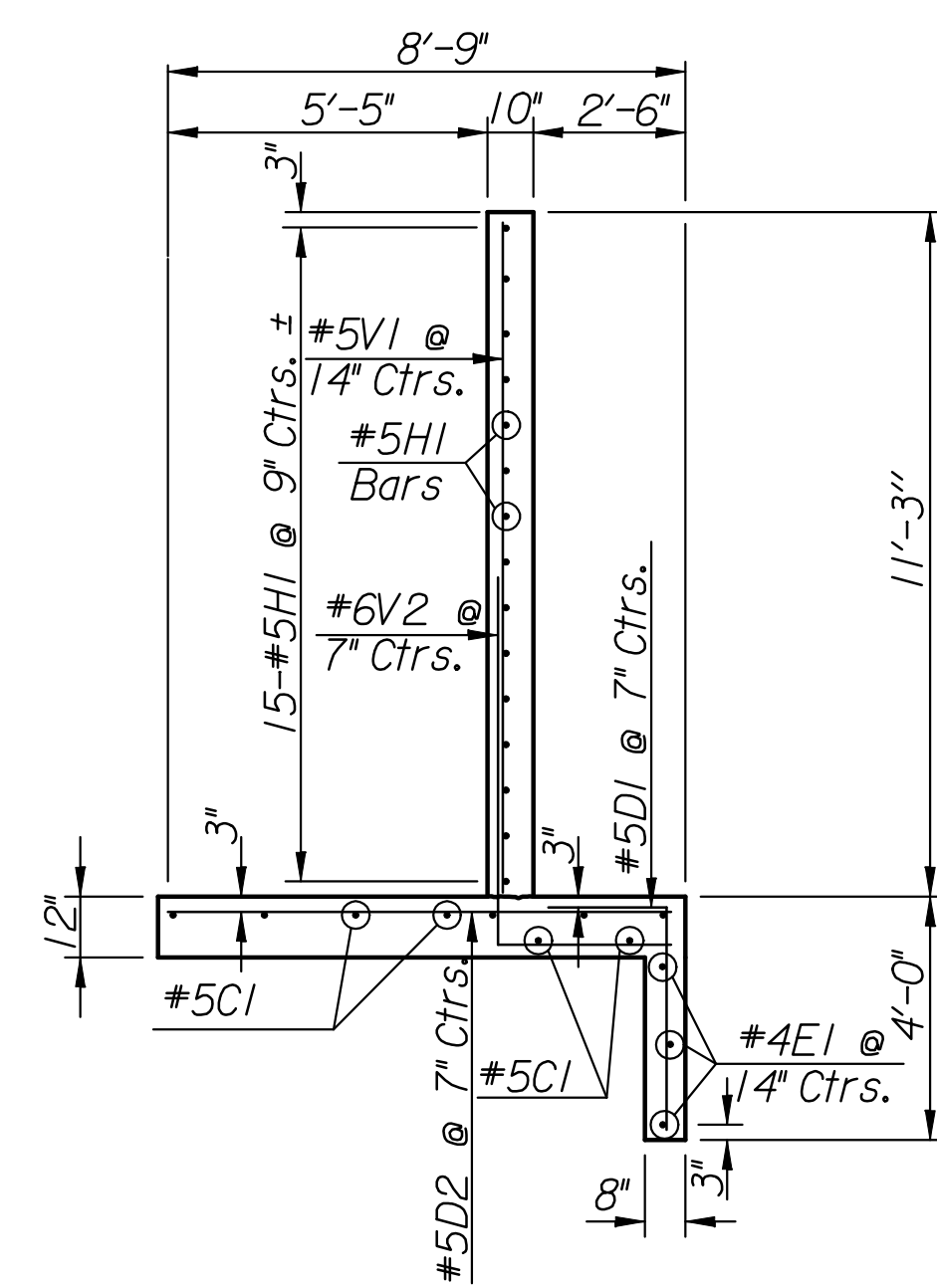
APRON: A 5' concrete slab shall be constructed between the downstream wings in locations subject to scour only when specified on the plans or by the Engineer. Wire Reinforcing mesh shall be electrically welded and shall be composed of 6 x 6-W1.4 x W1.4 welded wire fabric and shall be classified as pounds of reinforcing and included in the total quantity for the bid item Reinforcing Steel (Gr. 60).

BACKFILL MATERIAL: Soils judged as high plasticity clays, fat clays, expansive clays, or organic clays are unsuitable for backfill material for wingwalls and will not be used. Where these conditions exist, use Granular Backfill (Wingwalls).

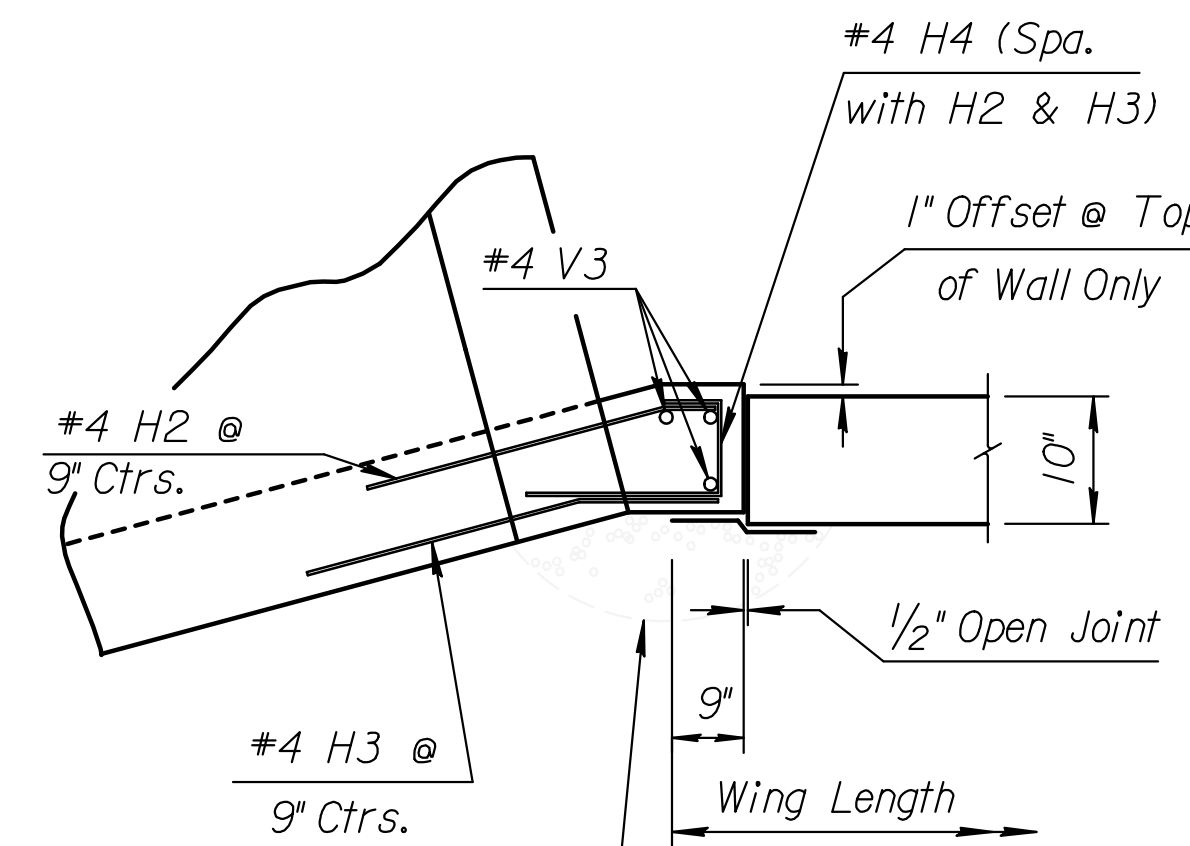
FOUNDATION STABILIZATION: Use Foundation Stabilization on all wingwalls unless founded on rock or granular material.



ELEVATION OF WINGWALL
(Backface Shown)



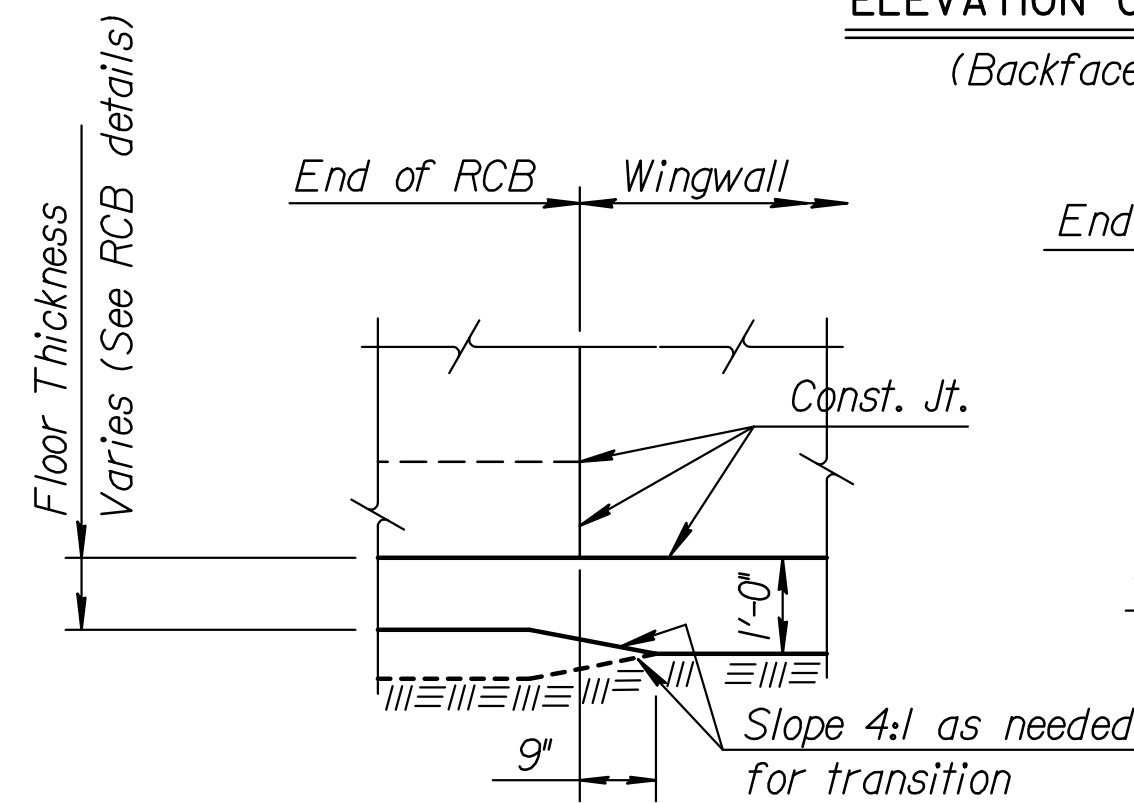
SECTION A-A



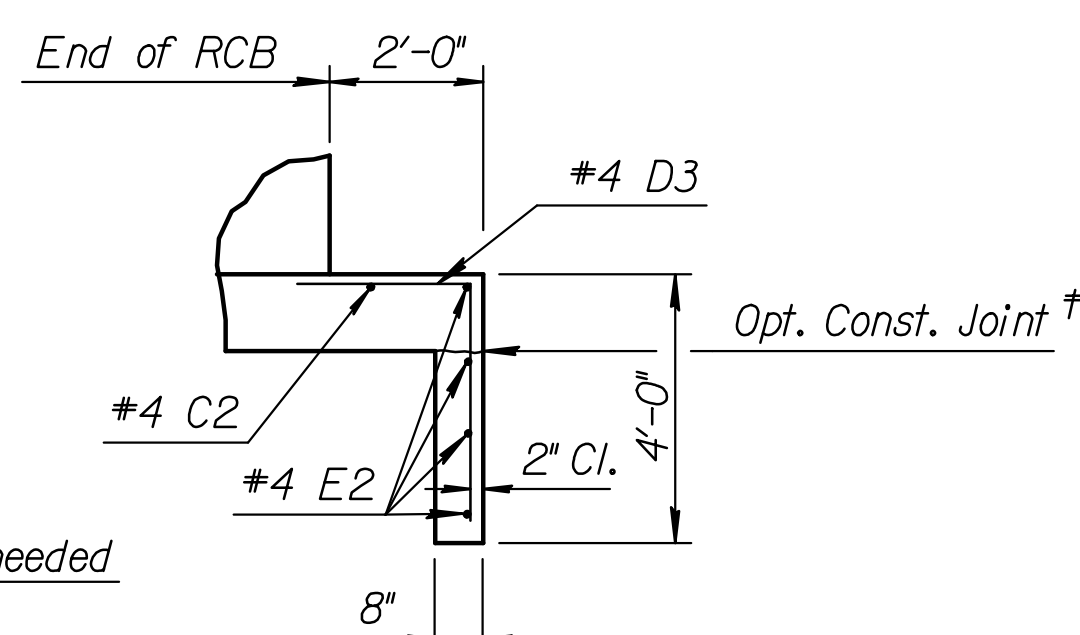
WINGWALL JOINT DETAIL
(Plan View)

* 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 1'-3". No increase in quantities or cost shall be allowed when Contractor elects this option.

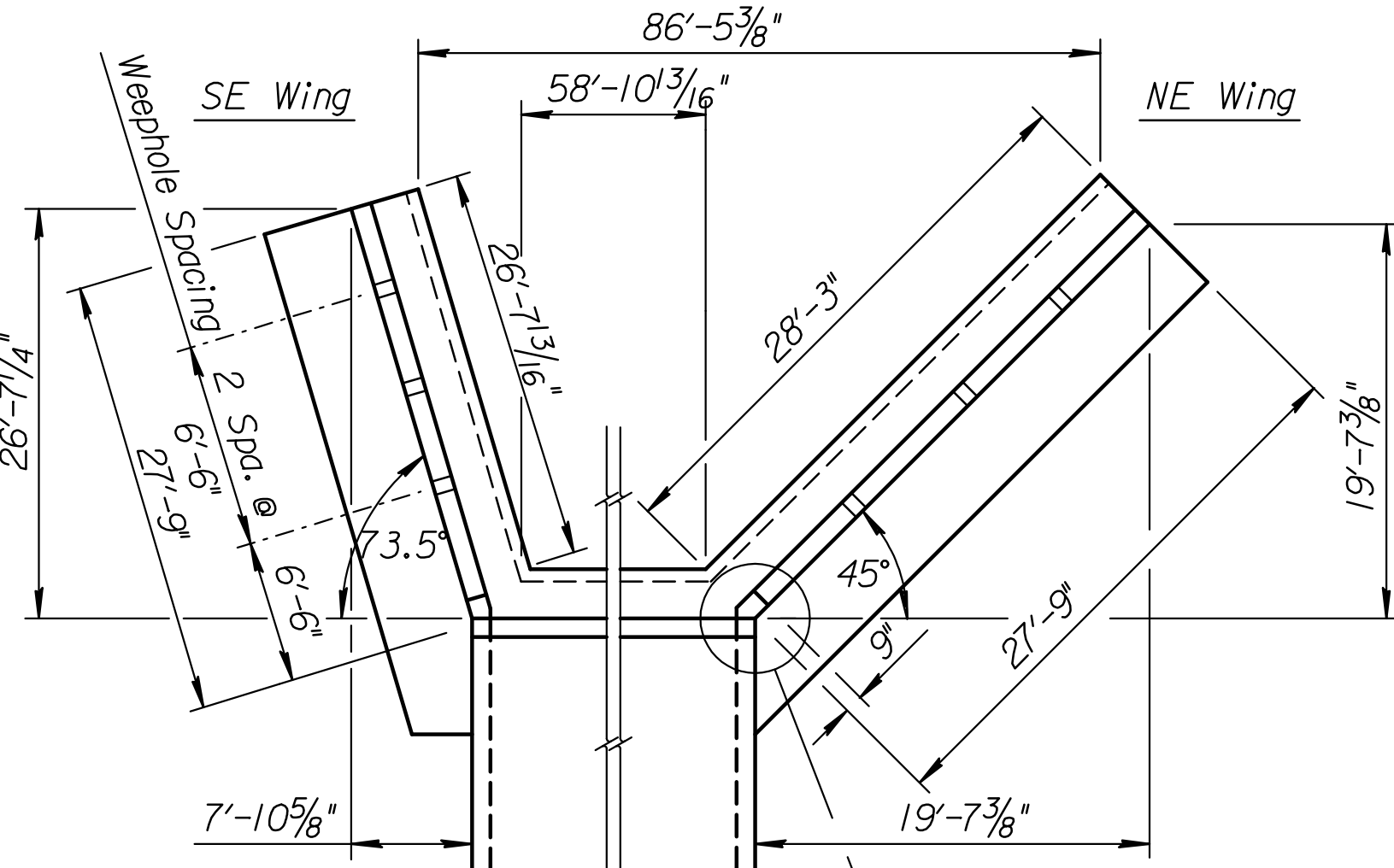
See "RCB Aux. Details" sheet for requirements of Wingwall Subbase.



VIEW D-D

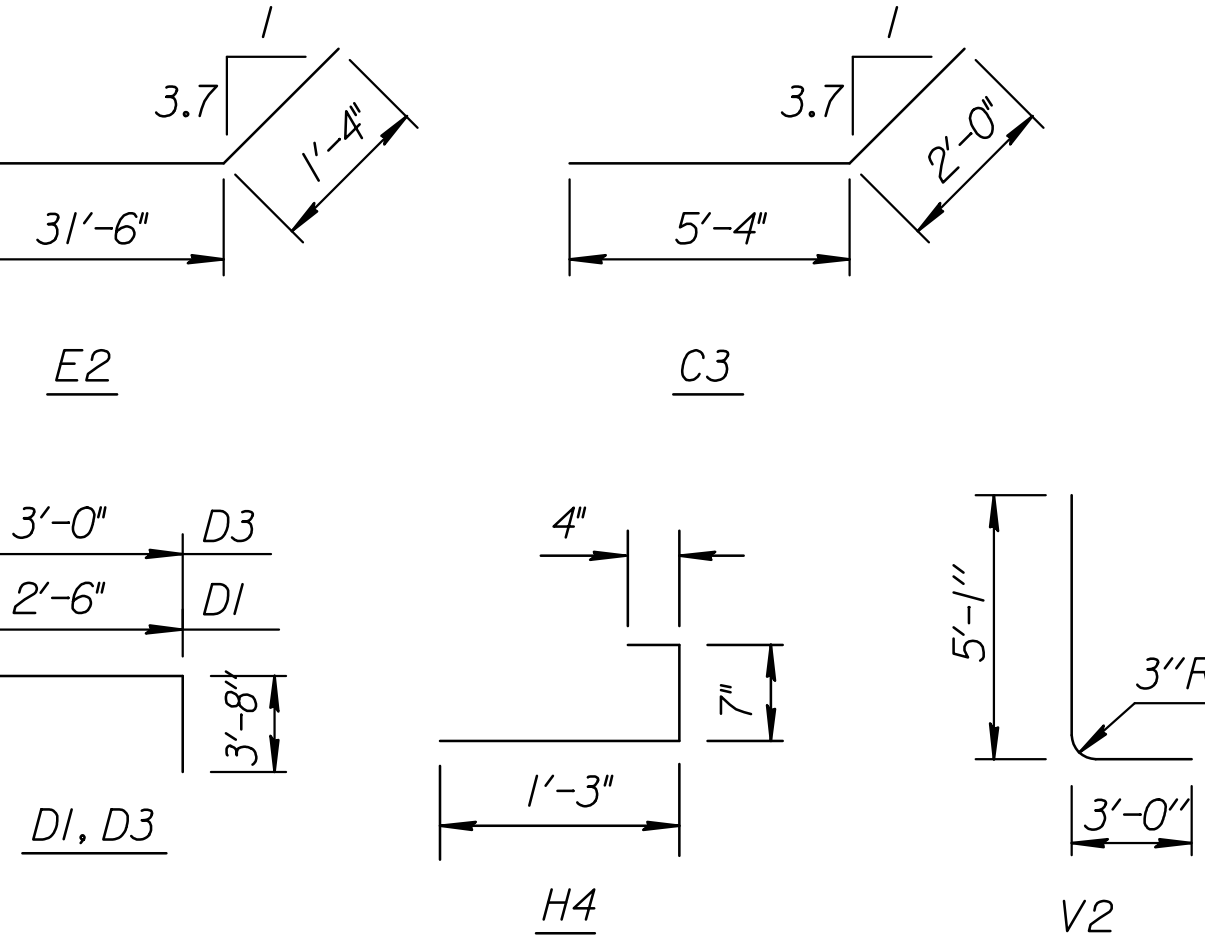
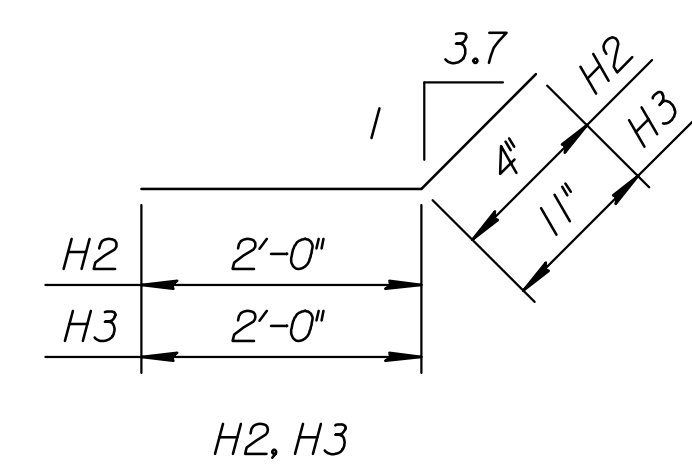


SECTION E-E



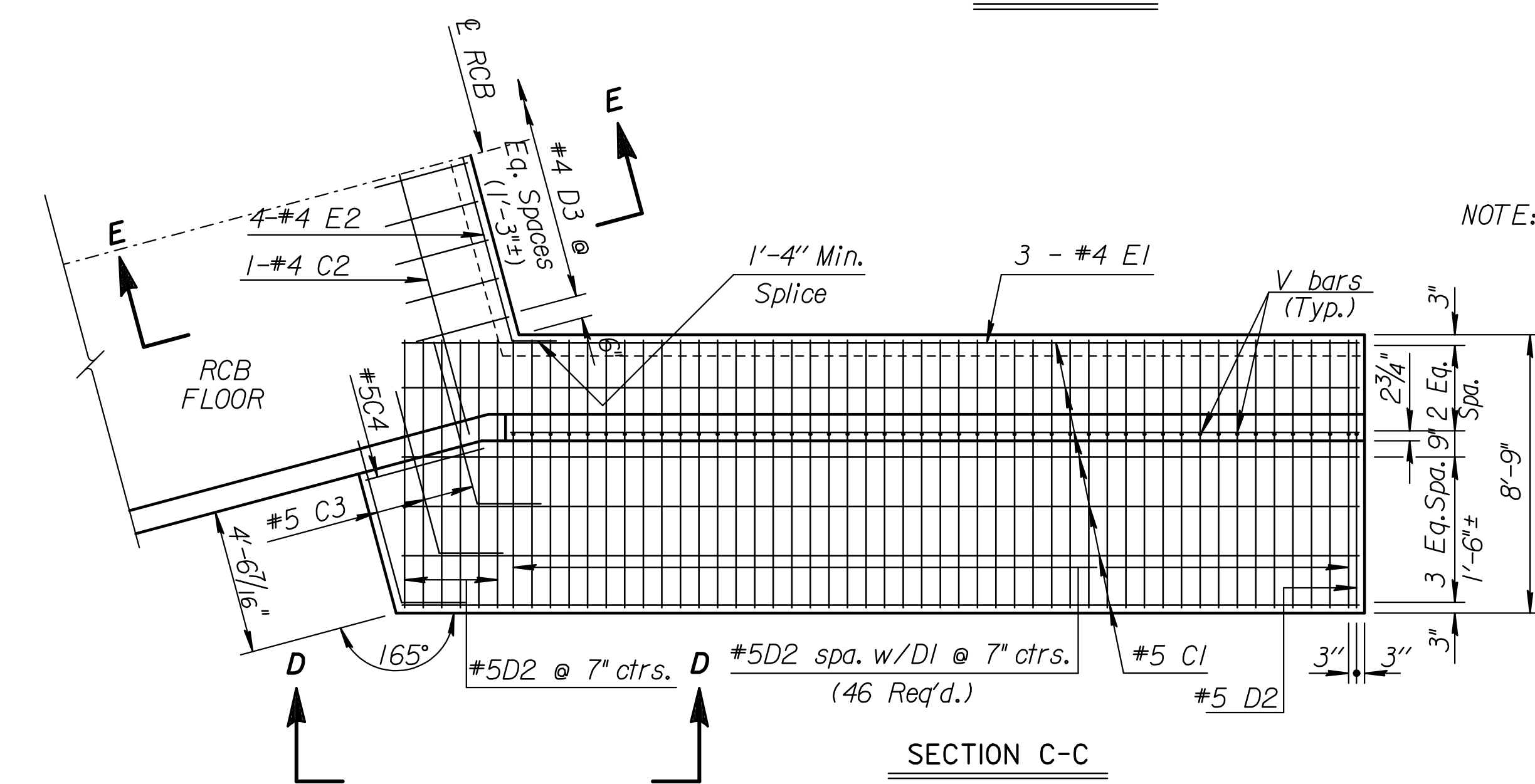
WING DIMENSIONS FOR NORMAL BOX
(Level Grade Wing)

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



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.

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

	WINGWALL QUANTITIES (One Wing Only)		
	Foundation Stabilization (C.Y.)	Concrete (Gr. 4.0) (C.Y.)	Reinforcing Steel (Grade 60)
Wingwalls	4.5		
Apron		34.8	406
Soil Saver			
Concrete (Grade 4.0)(AE)			20.6 Lbs.
Reinforcing Steel (Gr. 60) (Epoxy)			2714 Lbs.
Welded Wire Fabric			352 Lbs.

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

† = Lap with reinforcing steel from NE wing. * See Bending Diagram

0° Skew	Mark	#5C1	#5D1	#4E1	#4C2	#5D2	#4D3	#4E2	#5V1	#6V2	#5H1	#4H2	#4H3	#4H4	#4V3	#5C3	#5C4
	Number	9	47*	3	1	53	25*	4*	24	47*	15	15*	15*	15*	3	3*	1
	Length	30'-1"	6'-2"	26'-7"	34'-0"	8'-5"	6'-8"	32'-10"	11'-1"	8'-1"	26'-8"	2'-4"	2'-11"	2'-2"	11'-1"	7'-4"	4'-0"

Plotted By: rjm
File: I:\2008\0878\Office Check\0878-044-5-12x10-RFB-WingSE.dgn
Plot Date: 2/17/2010



NO.	DATE	REVISIONS	BY	APP'D

KANSAS DEPARTMENT OF TRANSPORTATION
127TH ST. STA. 5+86.19
SPECIAL WINGWALL SE
10 ft Rise (0°SKEW)

BR-10-00-10 Sedgwick Co.
FHWA APPROVAL DESIGNED CK. DETAILED DETAIL CK. QUANTITIES QUAN. CK. TRACED TRACE CK.