

FHWA REGION NO.	STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
7	KANSAS	87U-1362-01	1993	57	149

GENERAL NOTES

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

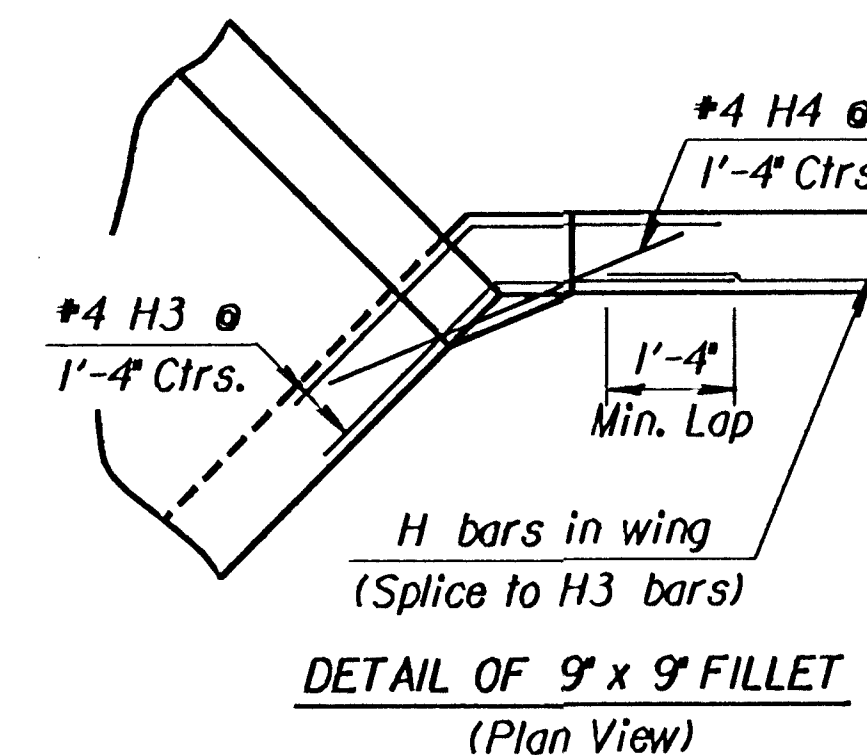
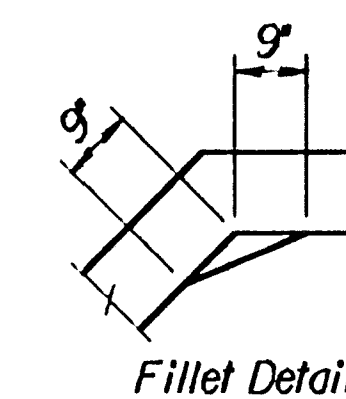
CONCRETE: Class AAA Concrete shall be used throughout. Bevel all exposed edges with a $\frac{3}{4}$ inch triangular moulding.

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.

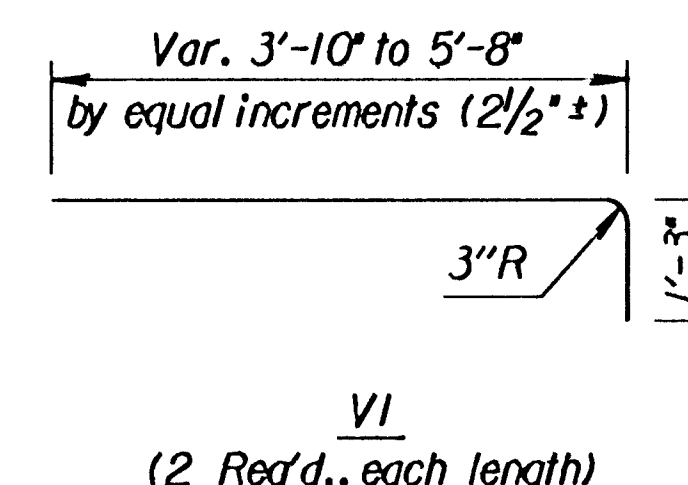
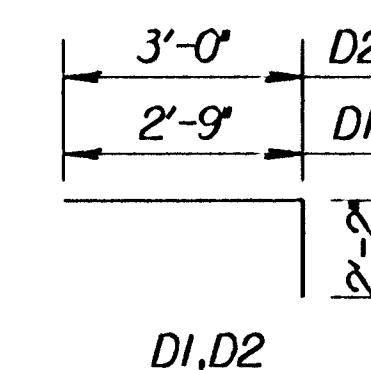
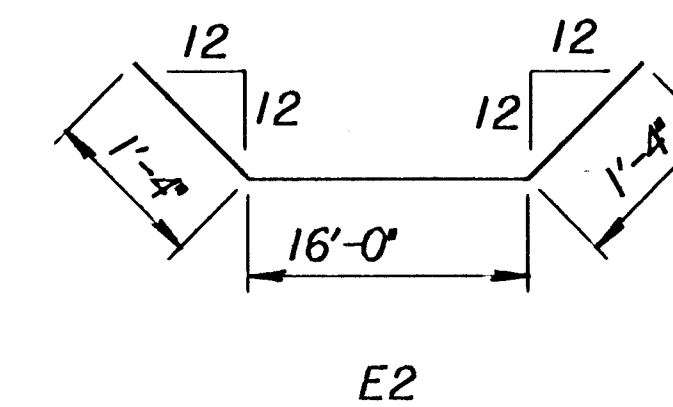
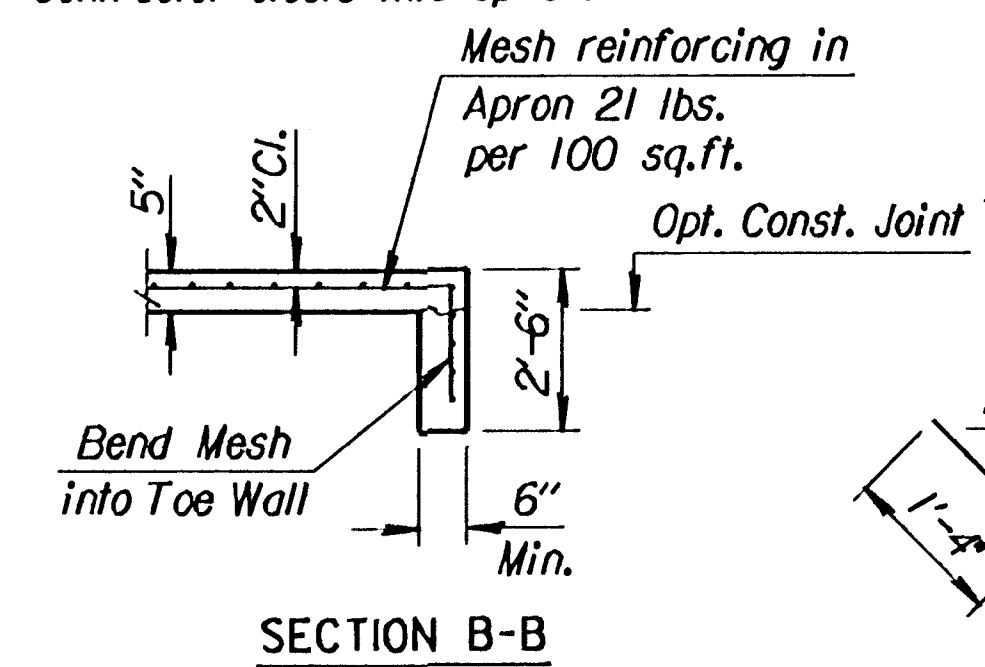
QUANTITIES: Wingwall Quantities include all quantities outside the neat lines of the box, including the hubguard.

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.



† **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.



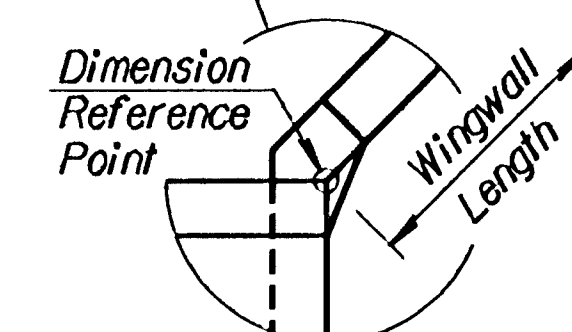
Note: Wingwall Required at Rt. & Conc. Wall at Lt.

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

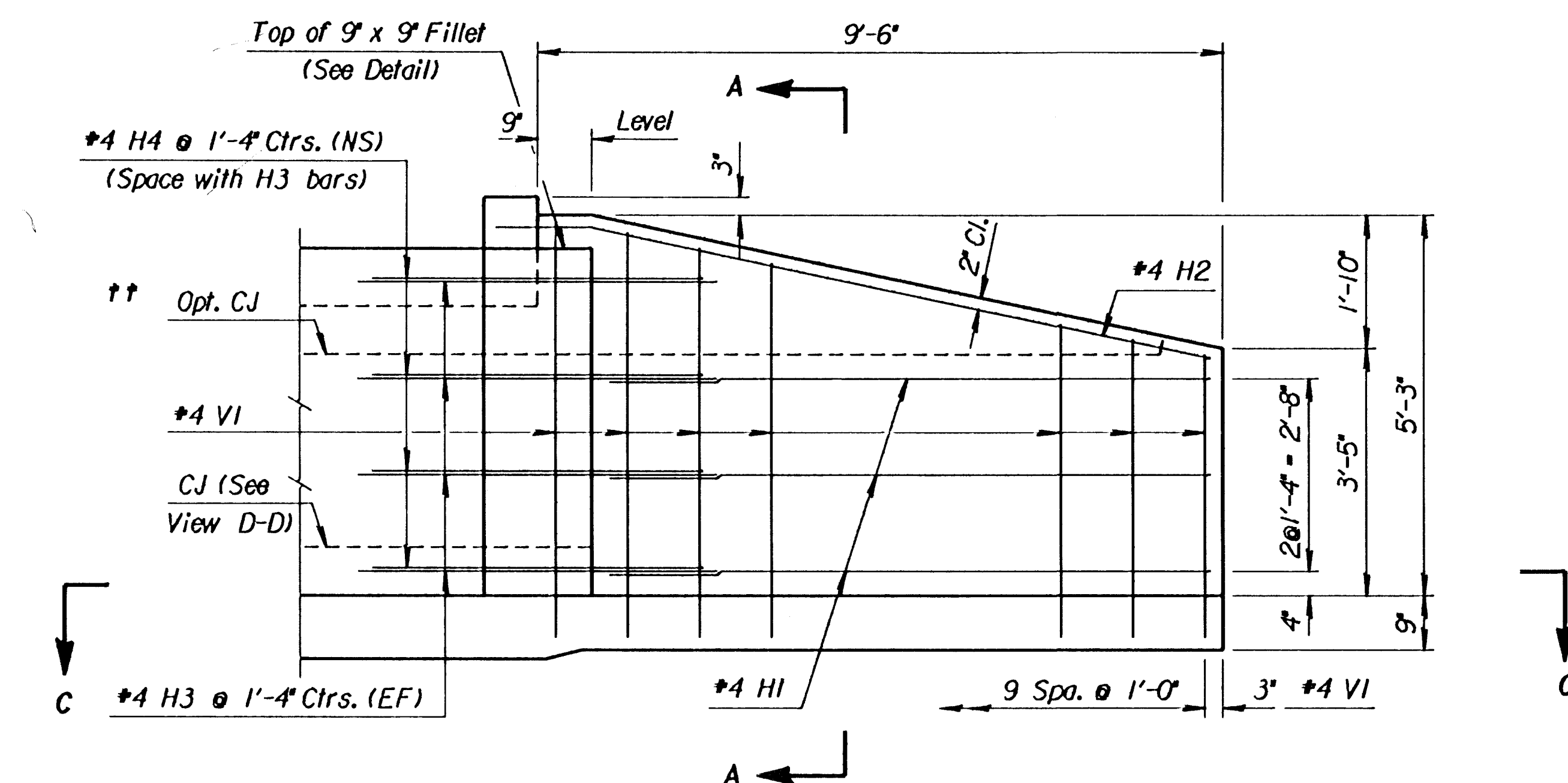
WINGWALL QUANTITIES (One End Only)		
Class AAA Concrete:		
Wingwalls	5.71	CY.
Apron	3.25	CY.
Soil Saver	0.00	CY.
Reinforcing Steel		
418.06	Lbs.	
Welded Wire Fabric		
44.20	Lbs.	

WING DIMENSIONS FOR NORMAL BOX ($\frac{3}{2}$ Embankment Slope)

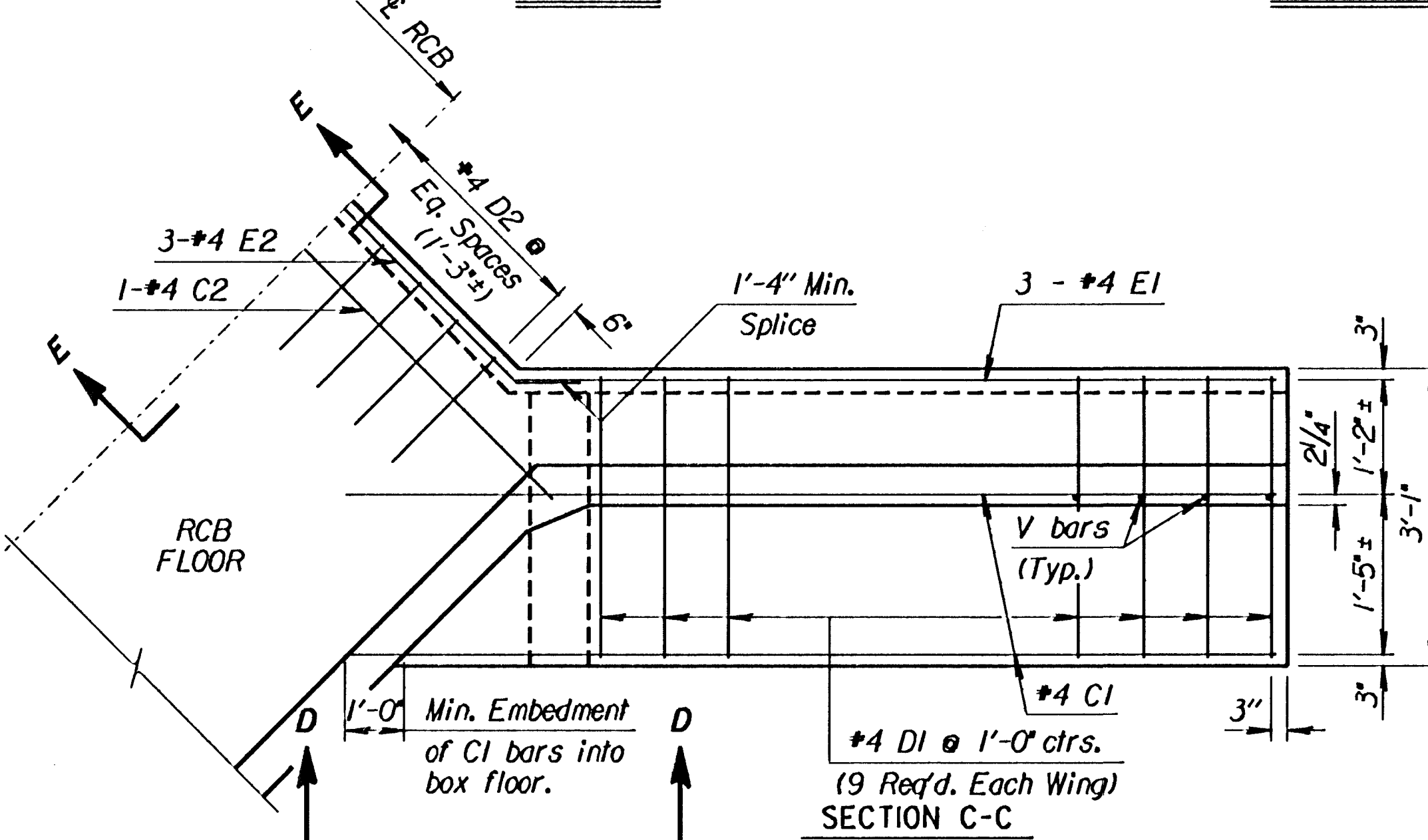
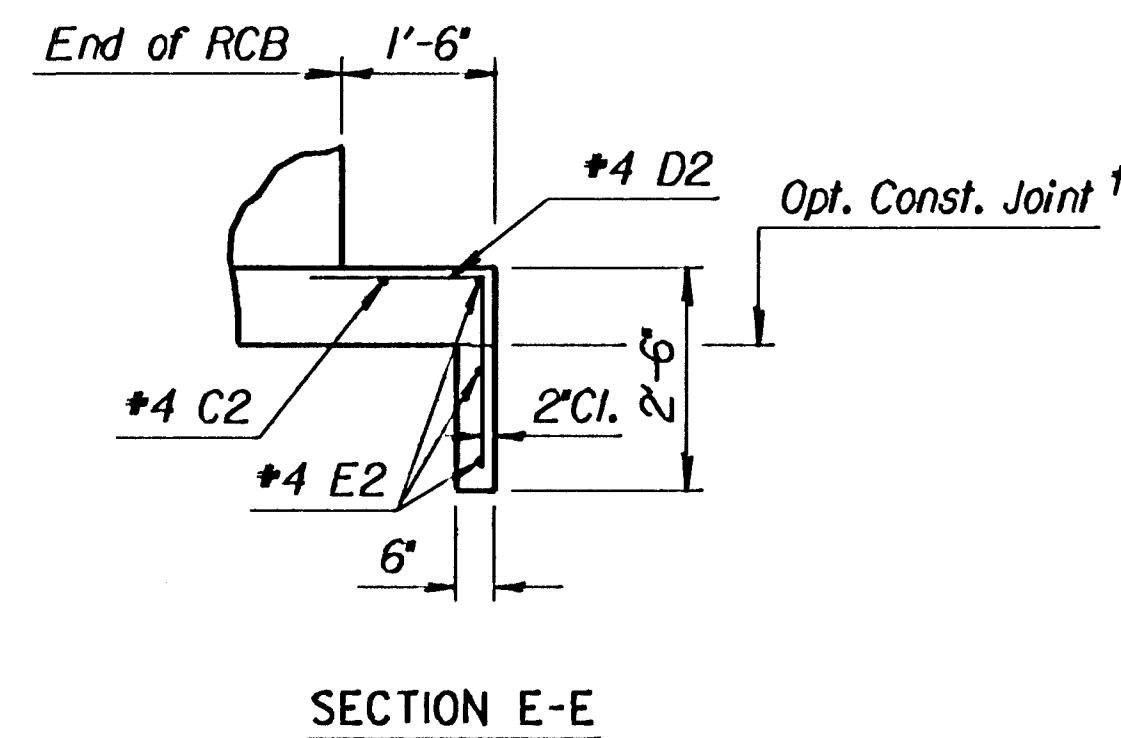
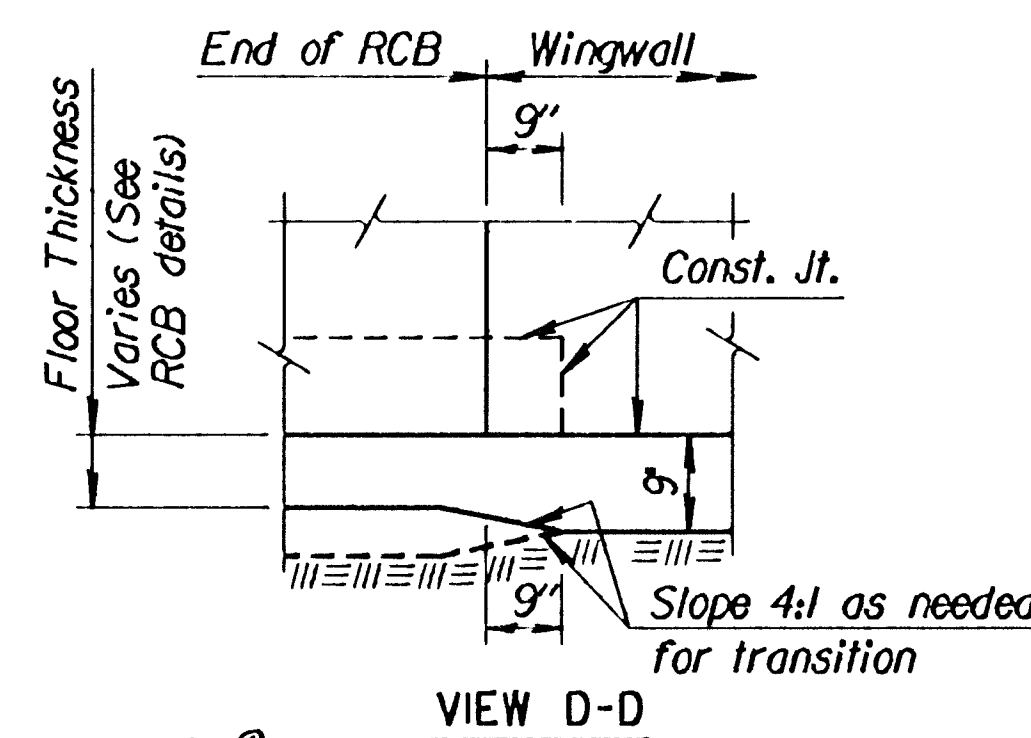
NOTE: Space weepholes to clear reinforcing steel. See "RCB Aux. Details" sheet for additional



* See Bending Diagram



ELEVATION OF WINGWALL (Backface Shown)



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

0° Skew	No.	#4C1	#4D1	#4E1	#4C2	#4D2	#4E2	#4V1	#4H1	#4H2	#4H3	#4H4
Length	11'-7"	4'-11"	8'-9"	16'-10"	5'-2"	18'-8"	*	8'-4"	10'-3"	5'-0"	3'-6"	

DESIGN	DATE	DATE	DATE	DATE	DATE
DESIGNED					
CHECKED					
APPROVED					
REVISIONS					
BY					
DATE					

PROJECTS	DATE	DATE	DATE	DATE	DATE
DESIGNED					
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