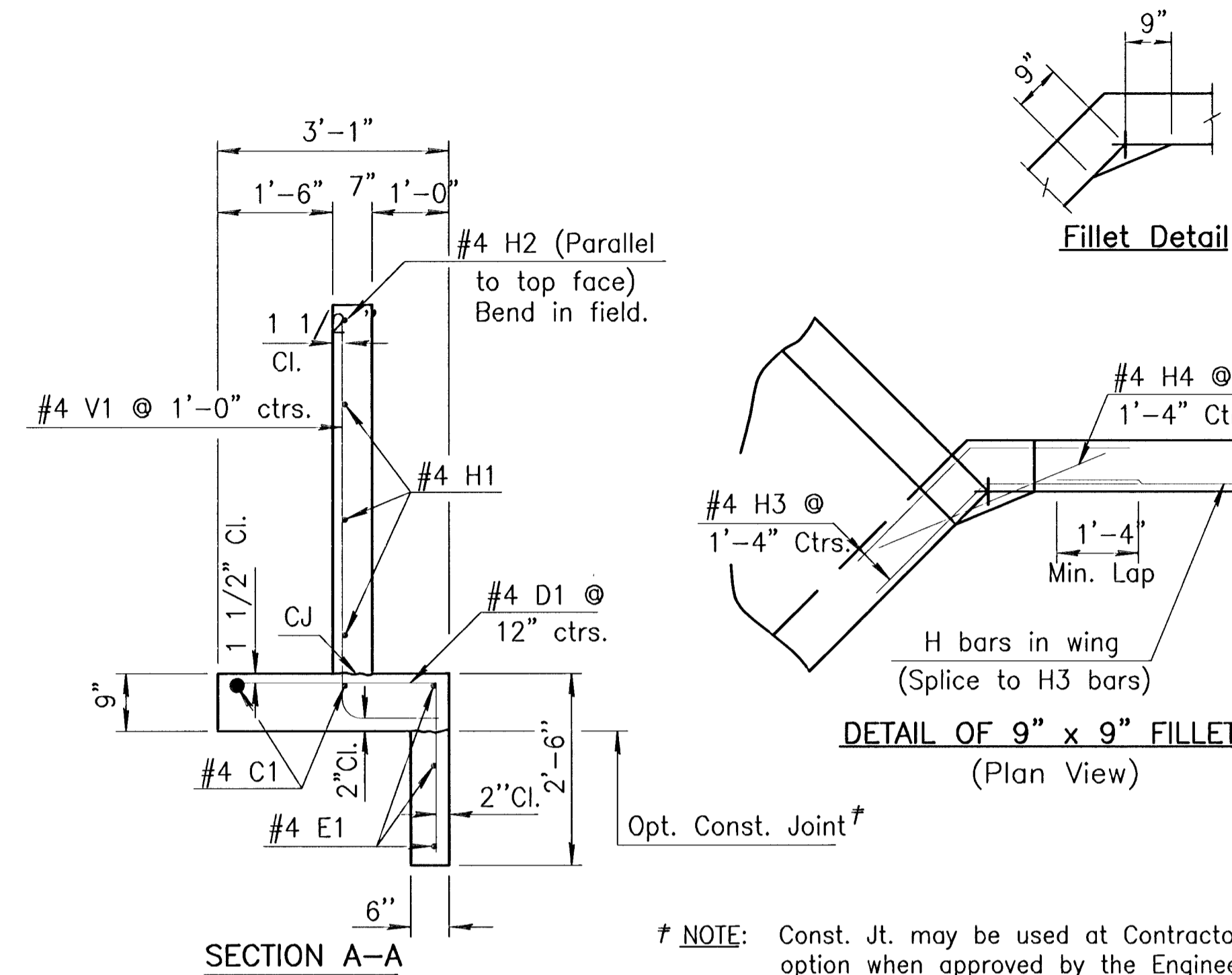
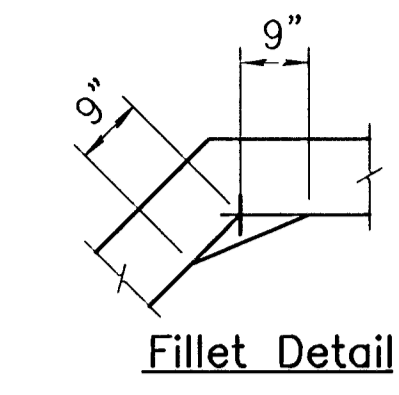


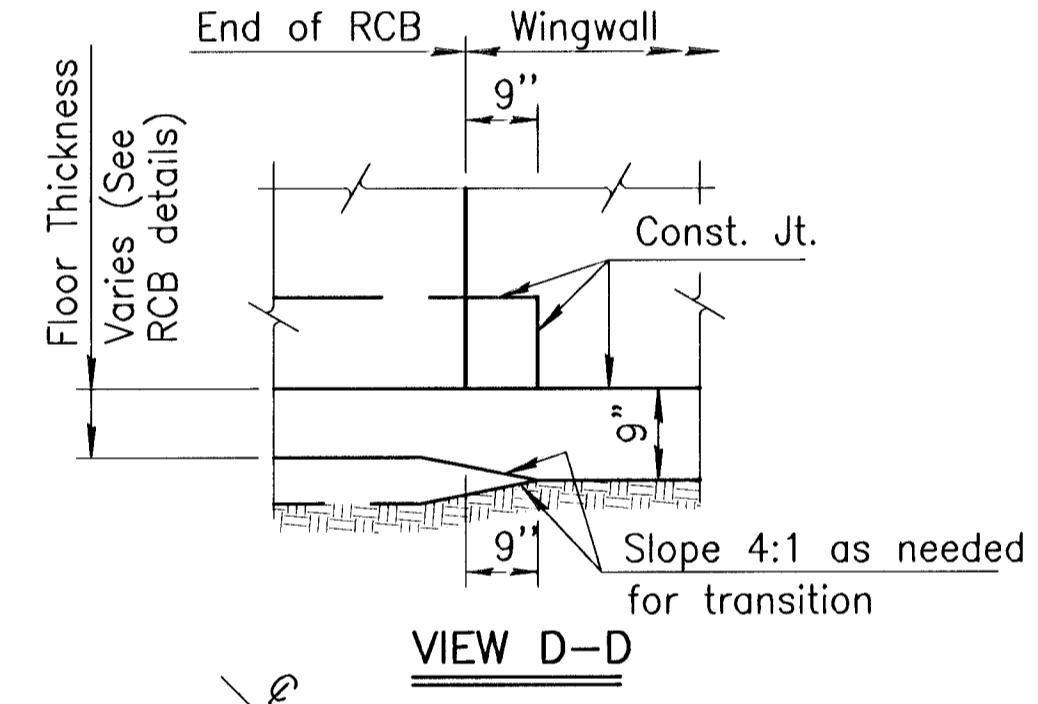
ELEVATION OF WINGWALL
(Backface Shown)



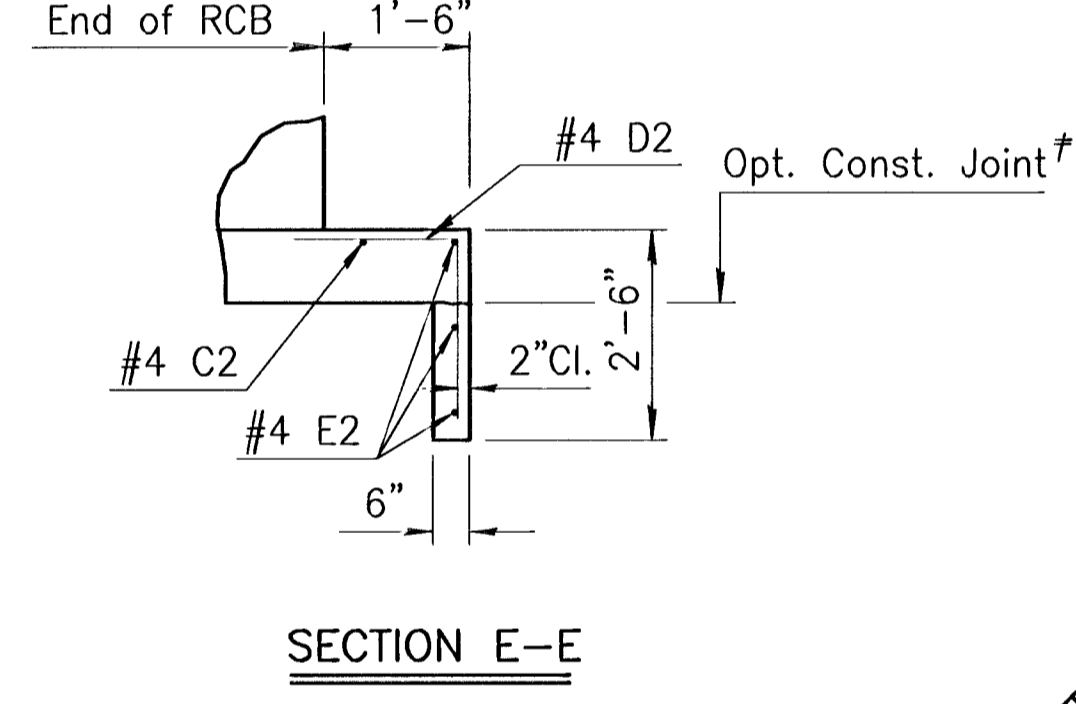
SECTION A-A



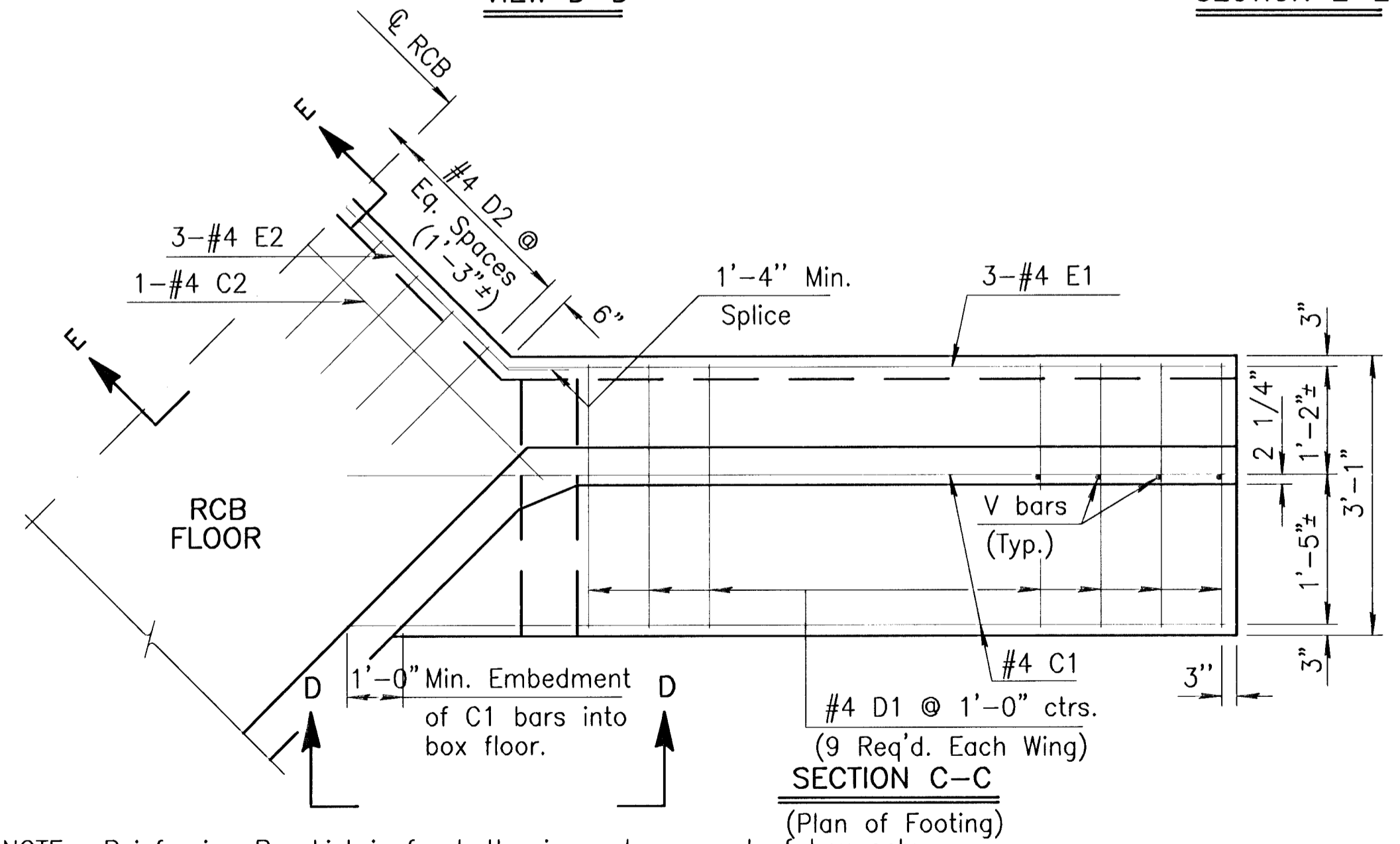
DETAIL OF 9" x 9" FILLET
(Plan View)



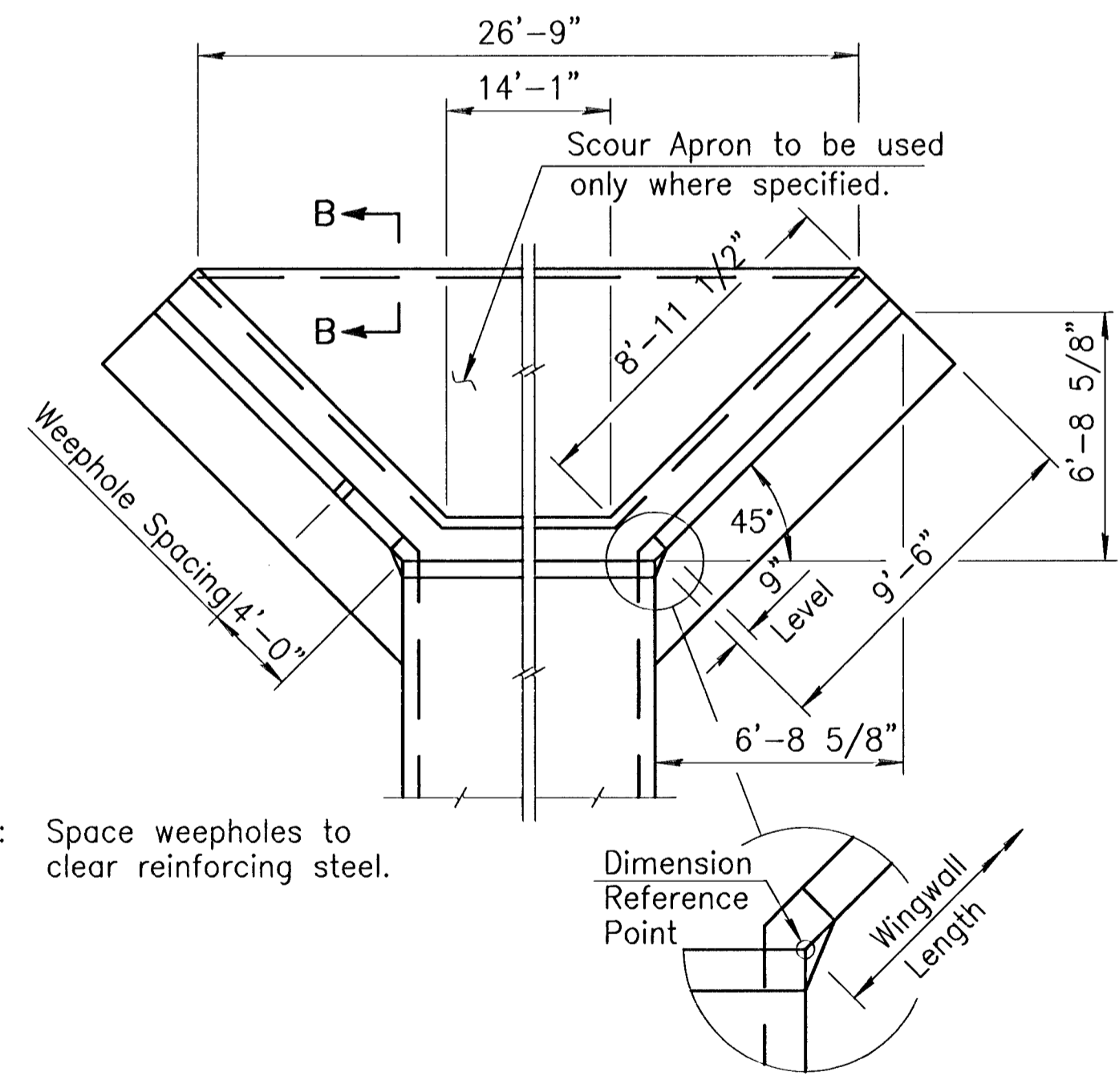
VIEW D-D



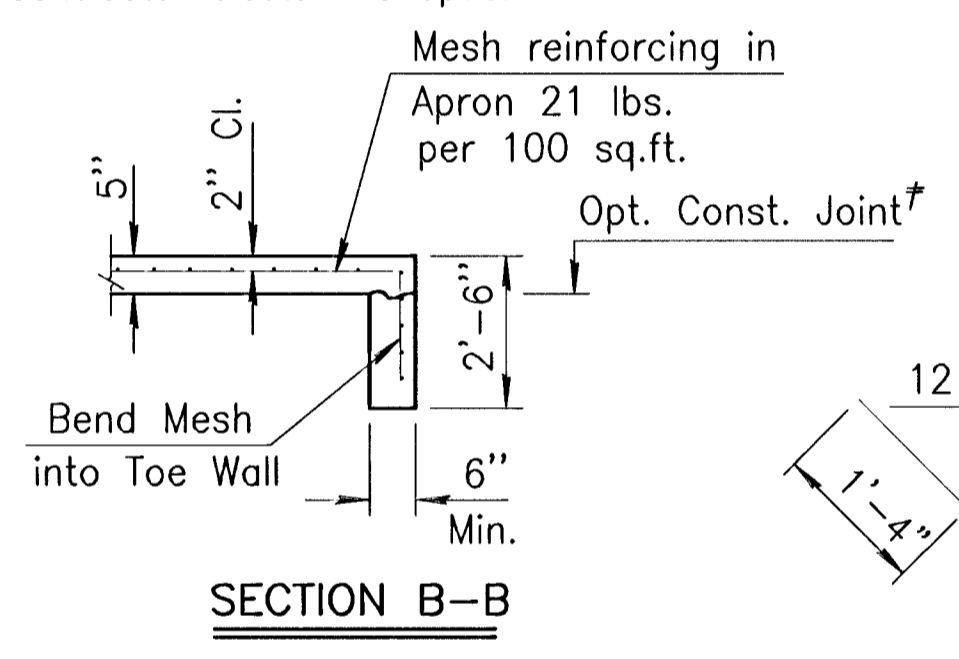
SECTION E-E



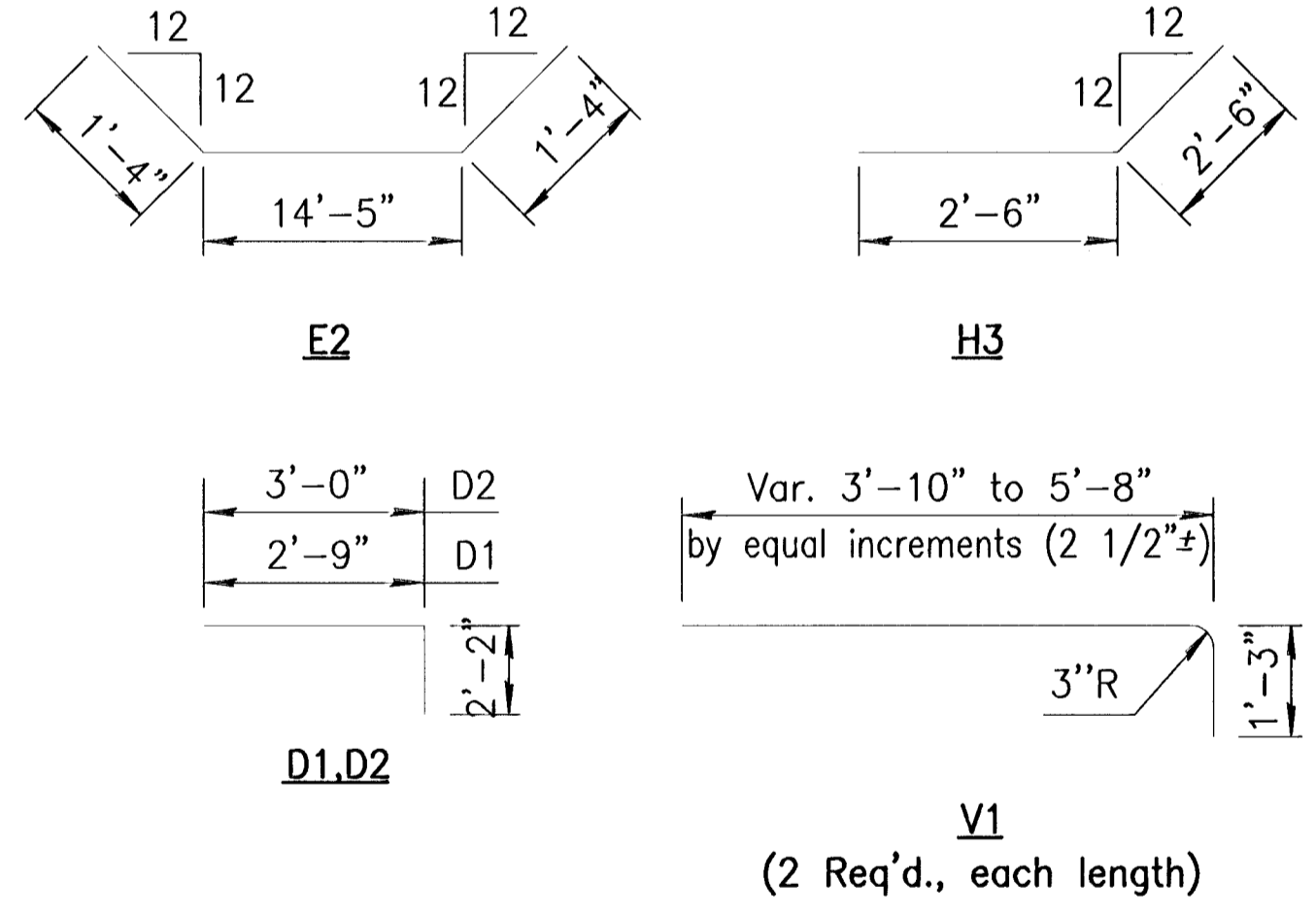
SECTION C-C
(Plan of Footing)



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



SECTION B-B



BENDING DIAGRAM

WINGWALL QUANTITIES (One End Only)	
Class AAA Concrete:	
Wingwalls	5.26 CY.
Apron	3.03 CY.
Soil Saver	0.00 CY.
Reinforcing Steel	
	406.92 Lbs.
Welded Wire Fabric	
	41.26 Lbs.

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

O' Skew	#4C1	#4D1	#4E1	#4C2	#4D2	#4E2	#4V1	#4H1	#4H2	#4H3	#4H4
	No.	4	18*	6	1	11*	3*	20	6	2	16*
Length	11'-7"	4'-11"	8'-9"	15'-1"	5'-2"	17'-1"	*	8'-4"	10'-3"	5'-0"	3'-6"

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 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.

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.

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

NOTE: Space weepholes to clear reinforcing steel.

* See Bending Diagram

G:\APPS\DC\A\9\694\BASE-ST.dwg Thu Mar 21 14:32:27 2002 Bernard Kulla - POE & ASSOCIATES OF KANSAS, INC.

EQUINE ESTATES - PHASE 1
 STREET IMPROVEMENTS
 WINGWALL (4' RISE) DETAILS
 CITY OF WICHITA, KANSAS
 MICHAEL E. UNDEBAK, P.E. - CITY ENGINEER
 C.O.W. Project # 472-83424 O.C.A. # 765705

POE & ASSOCIATES OF KANSAS, INC.
 CONSULTING ENGINEERS
 5940 E. Central, Suite 200 • Wichita, KS 67208-4242
 Phone 316/685-4114 • FAX 316/685-4444

FINAL
 Designed By: J. Ubert / J. Dickman
 Drawn By: J. Dickman
 P.O. Job No.: 1694A
 Date: March 2002

NO.	DATE	REVISIONS	BY	APP'D

KANSAS DEPARTMENT OF TRANSPORTATION
Sta. 13+73.67
FLARED WINGWALLS
4 FT. RISE (0' SKEW)

BR10-00-04 SEDGWICK CO.

DESIGNED	6-5-91	APP'D	KENNETH F. HURST
DETAIL CK.		QUANTITIES	

Sheet
93 of 112