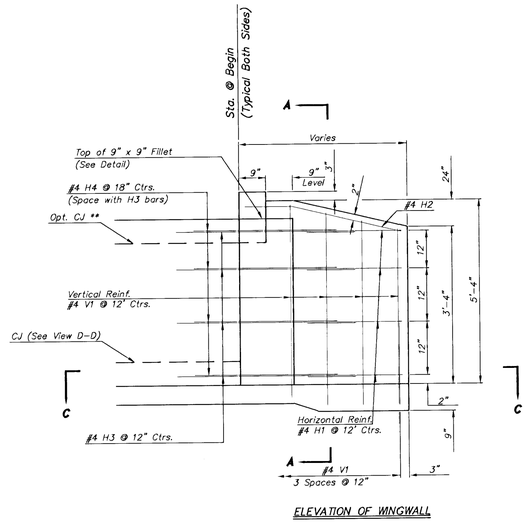
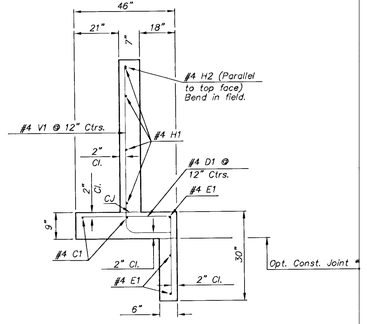
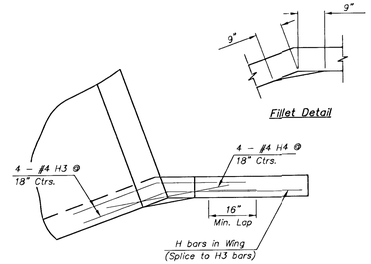


ELEVATION OF WINGWALL



SECTION A-A



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

* NOTE: Const. Jt. may be used at Contractor's option when approved by the Engineer. #4 bars or mesh may be spliced thus: Minimum overlap shall be 15". No increase in quantities to cost shall be allowed when Contractor elects this option.

GENERAL NOTES

UNIT STRESSES: Class AAA Concrete: f'c = 4000 p.s.i.
Reinforcing Steel: fy = 60,000 p.s.i.

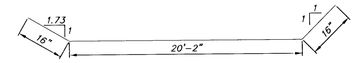
CONCRETE: Class AAA Concrete shall be used throughout. Bevel all exposed edges with a 3/4 inch triangular molding.

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

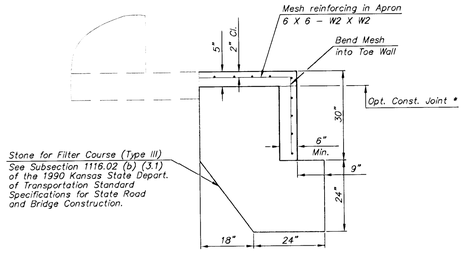
QUANTITIES: Wingwall Quantities include all quantities outside the neat lines of the box, excluding the hubguard.

APRON: A 5 inch 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 electrically welded and shall be composed of 6 x 6 – W2 x W2 welded wire fabric

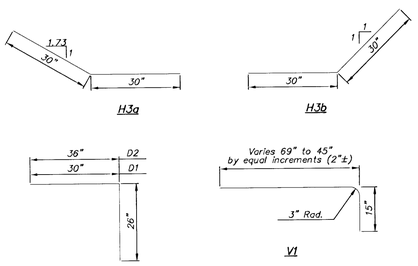
FOUNDATION AND BACK FILL MATERIAL: Soils judged as high plasticity clays, fat clays, expansive clays, or organic clays are unsuitable for foundation and/or back fill material for wingwalls and will not be used. Where these conditions exist, Foundation Stabilization and/or Granular Back fill (Wingwalls) shall be used as determined by the Engineer. See "RCB Auxiliary Details" sheet for additional details.



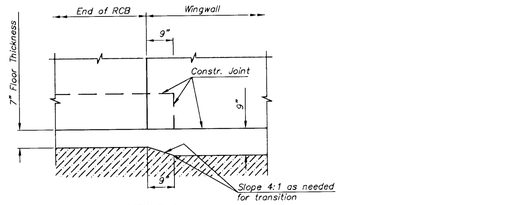
E2



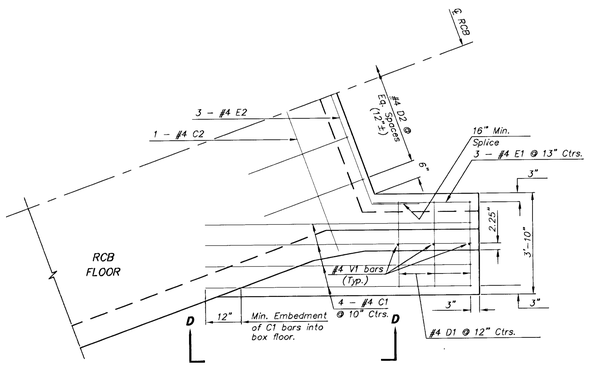
SECTION B-B



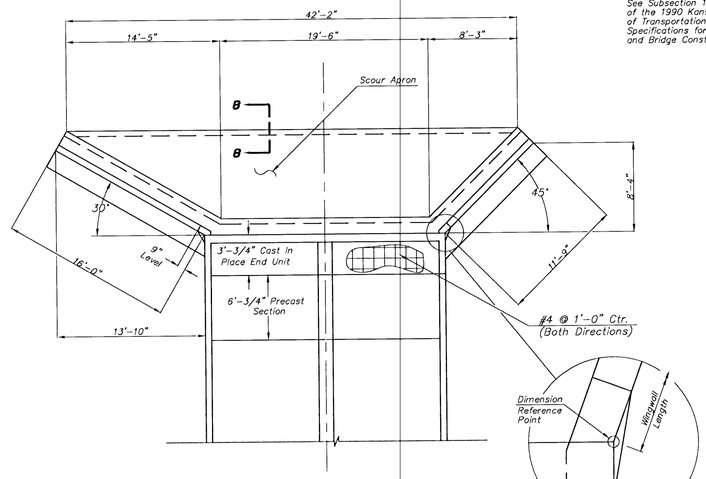
BENDING DIAGRAM
(All dimensions are out to out of bars.)



VIEW D-D



SECTION C-C
(Plan of Footing)



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

1. All Existing Concrete Surfaces Adjacent to New Concrete Shall be Thoroughly Cleaned by Brushing, and Soaked with Water immediately Prior to Placing New Concrete.
2. All Exposed Concrete Edges Shall be Beveled 3/4".
3. All Reinforcing Steel to have Minimum 1-1/2" Concrete Cover.

For Information Only
Cost of Concrete, Steel, Etc. to be INCIDENTAL to the Lump Sum Bid Item "Double 10' X 4' RCBC".

WINGWALL QUANTITIES (One End Only)	
Class AAA Concrete:	
Wingwalls	7.27 cu. yards
Apron	5.58 cu. yards
Cast-in-Place RCB	5.69 cu. yards
Reinforcing Steel	1060 lbs.
Welded Wire Fabric	81 lbs.

FOR INFORMATION ONLY

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

	#4 C1a	#4 C1b	#4 D1	#4 E1a	#4 E1b	#4 C2	#4 D2	#4 V1	#4 E2	#4 H1a	#4 H1b	#4 H2a	#4 H2b	#4 H3a	#4 H3b	#4 H4
No.	4	4	27 ***	3	3	1	18 ***	27	3 ***	8	8	1	1	8 ***	8 ***	8
Length	17'-8"	14'-0"	5'-8"	15'-9"	11'-6"	22'-6"	5'-2"	***	22'-2"	14'-1"	9'-10"	16'-5"	12'-3"	5'-0"	5'-0"	3'-6"

PROJECT NUMBER	SHEET NAME	ENGINEERING DIRECTORY
472-76-245-83324	Wing Detail	F:\\Hydraulic\KTA

DESIGN	DRAWN	APPROVED	DATE	SCALE	BAUGHMAN NO
TPV/JFB	TPV	JFB	FEB 2001	NONE	99-09-E543

CAPITAL IMPROVEMENT PROJECT
WINGWALL DETAILS
HYDRAULIC AVENUE PAVING - INCIDENTAL DRAINAGE IMPROVEMENTS - PHASE 1

BAUGHMAN COMPANY, P.A.
ENGINEERING, SURVEYING, & PLANNING
316-262-7271 * 315 ELLIS * WICHITA, KANSAS 67211

SHEET 4A OF 36

F:\ENG\Hydraulic\KTA\RCBC\Wing Detail.dwg Thu Mar 01 08:24:41 2001