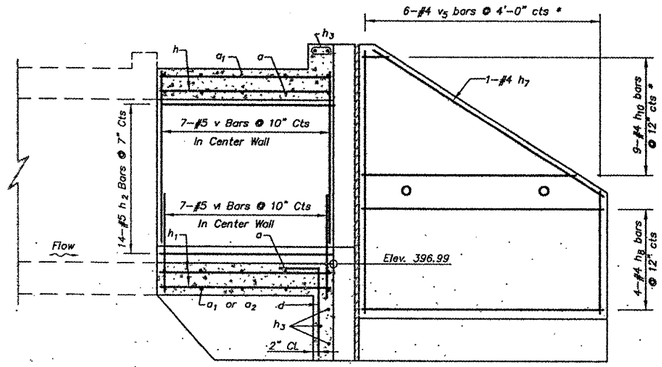
Contract #97312

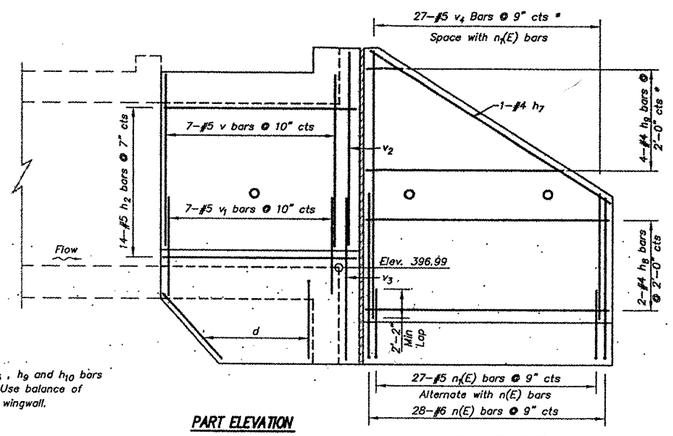
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
-	99-00009	ST. CLAIR		76
-	-01-FP			
FED. ROAD DIST. NO. 8	ILLINOIS	FED. AID PROJECT- 98-069-97		
CULVERT STRUCTURAL				

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



PART SECTION

(Showing Bars In Center Wall)



PART ELEVATION

(Showing Bars In Outside Wall)

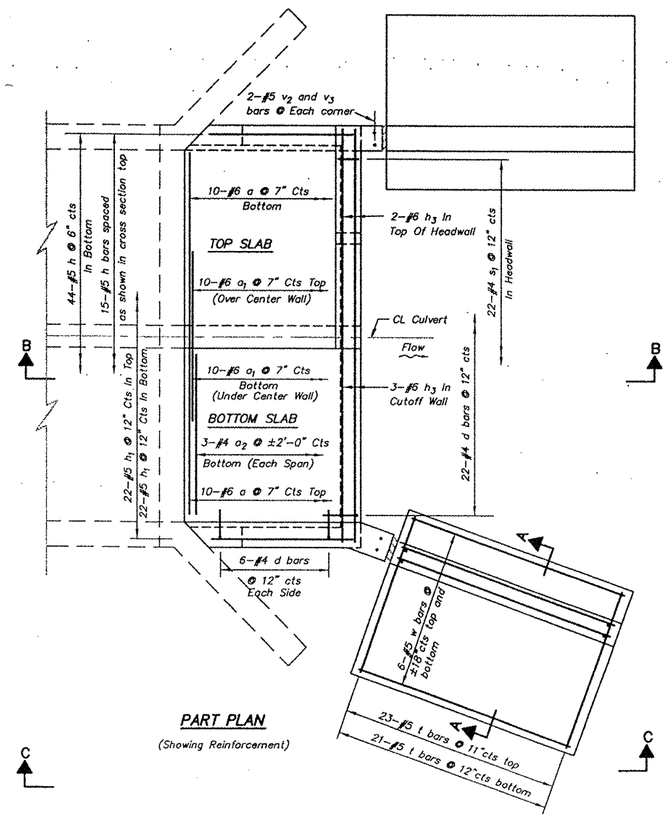
* Cut v_4, v_5, h_9 and h_{10} bars to fit slope. Use balance of bar in other wingwall.

REINFORCEMENT FRONT FACE

REINFORCEMENT BACK FACE

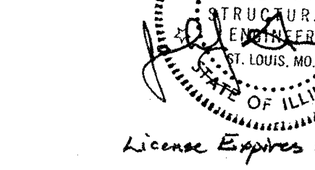
SECTION B-B

ELEVATION C-C



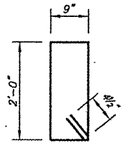
PART PLAN

(Showing Reinforcement)

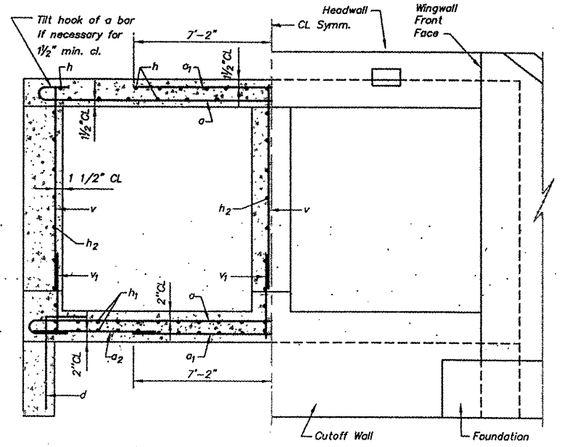


SECTION A-A

Note:
Wingwall reinforcement similar each wingwall this end.



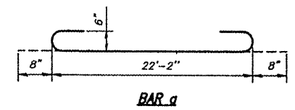
BAR s_1



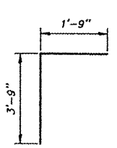
HALF SECTION THRU BARREL

(Showing Reinforcement)

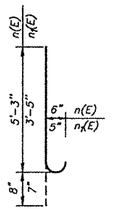
HALF END ELEVATION



BAR a



BAR d

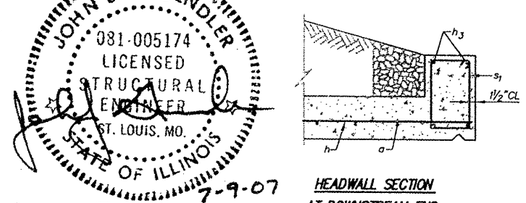


BARS n(E) and $n_1(E)$

Notes:
Reinforcement bars designated (E) shall be epoxy coated. Bars indicated thus 12x4-#5 etc. indicates 12 lines of bars with 4 lengths per line.

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a	20	#6	23'-6"	
a_1	20	#6	14'-4"	
a_2	6	#4	5'-7"	
d	34	#4	5'-6"	
h	59	#5	5'-8"	
h_1	44	#5	5'-8"	
h_2	42	#5	5'-8"	
h_3	5	#6	22'-2"	
h_7	4	#4	22'-1"	
h_8	12	#4	20'-11"	
h_9	4	#4	22'-10"	
h_{10}	9	#4	21'-1"	
n(E)	56	#6	5'-11"	
$n_1(E)$	54	#5	4'-0"	
s_1	22	#4	6'-3"	
t	88	#5	7'-8"	
v	21	#5	8'-4"	
v_1	21	#5	2'-11"	
v_2	4	#5	10'-3"	
v_3	4	#5	5'-11"	
v_4	27	#5	16'-9"	
v_5	6	#4	16'-8"	
w	24	#5	20'-11"	
Concrete Box Culverts			Cu. Yd.	48.5
Reinforcement Bars, Epoxy Coated			Pound	720
Reinforcement Bars			Pound	4900



7-9-07
License Expires 11-30-08

HEADWALL SECTION AT DOWNSTREAM END

(Drawings not to scale)

DESIGNED	*
CHECKED	*
DRAWN	PES
CHECKED	TPW

200

EXAMINED

ENGINEER OF BRIDGE DESIGN

PASSED

ENGINEER OF BRIDGE AND STRUCTURES

T:\Clients\SAUGET\7313-97-1 ph il\dwg\S6-ICRR-RT.dwg, 6/27/2007 11:08:17 AM, KM-3035.pc3