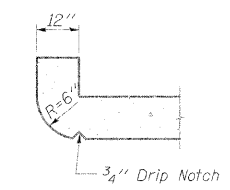
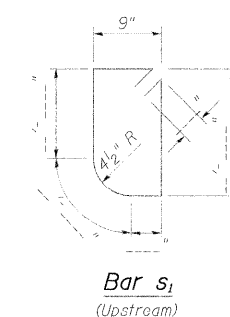
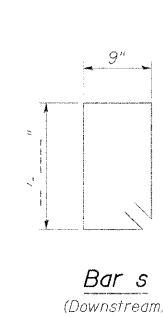
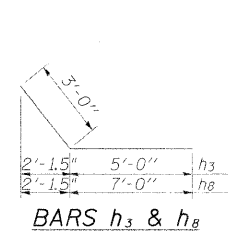
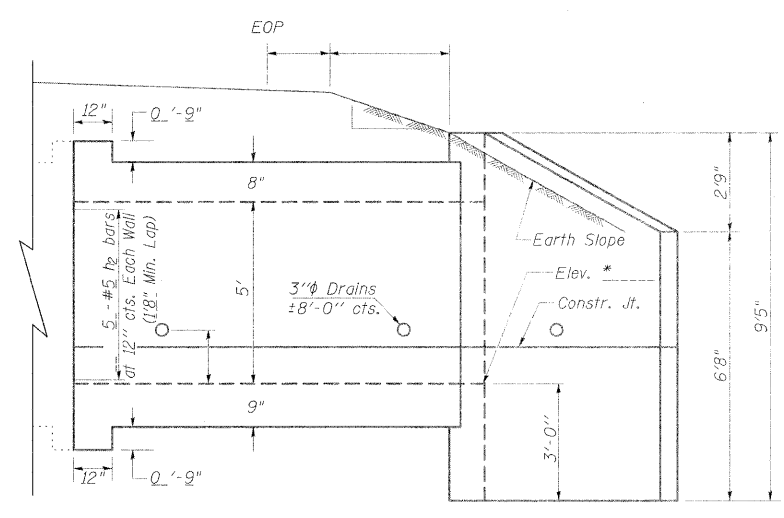
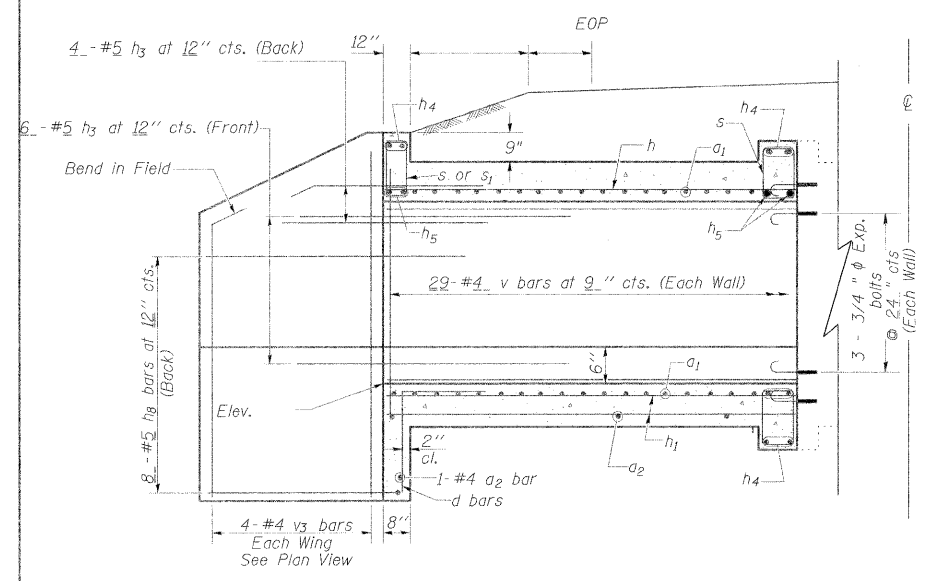


STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



ELEVATION
Dimensions at Rt. L's to \bar{C} Roadway

* DSFL 424.67 (WB IL 13)

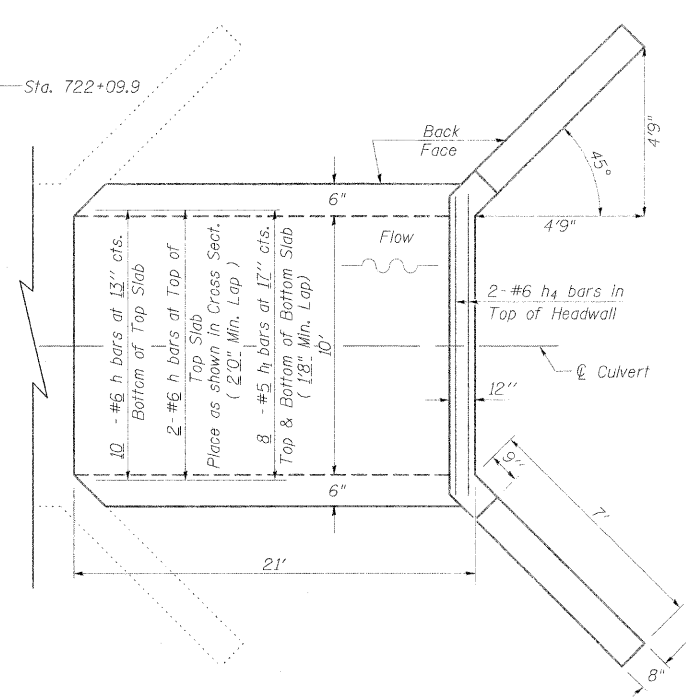
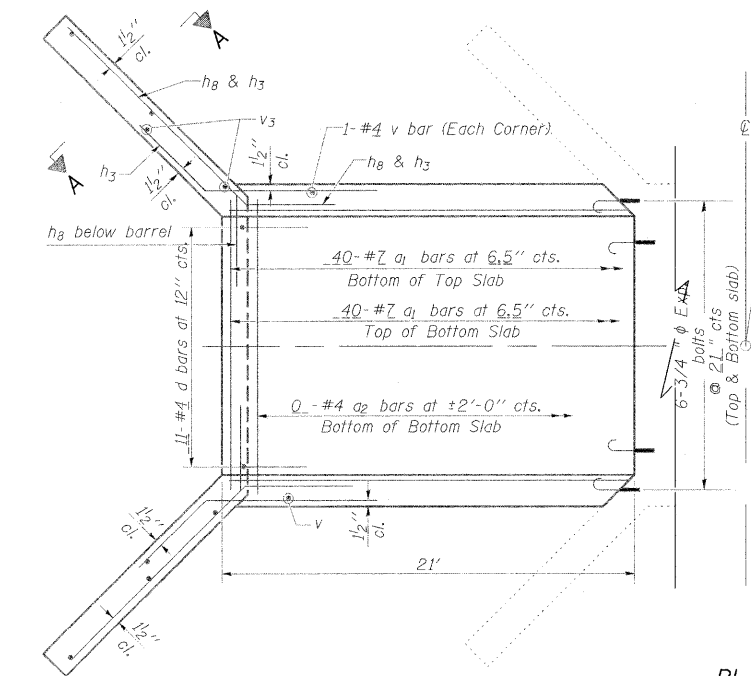
DESIGN STRESSES

$f_y = 60,000$ psi
 $f'_c = 3,500$ psi

LOADING HS 20-44 & ALT.

BILL OF MATERIAL

Bar	No.	Size	Length	Shape	
a ₁	80	#7	12'-4"	U	
a ₂	0	#4			
d	11	#4	4'-6"	L	
h	12	#6	20'-9"	—	
h ₁	16	#5	20'-9"	—	
h ₂	10	#5	20'-9"	—	
h ₃	20	#5	8'-0"	—	
h ₄	6	#6	10'-9"	—	
h ₅	4	#7	10'-9"	—	
h ₈	16	#5	10'-0"	—	
s	0	#4			
s ₁	0	#4			
v	58	#4	6'-1"	—	
v ₃	8	#4	9'-2"	—	
Concrete Box Culverts				Cu. Yd.	19.8
Reinforcement Bars				Pound	3790
3/4" Expansion bolts				Each	18

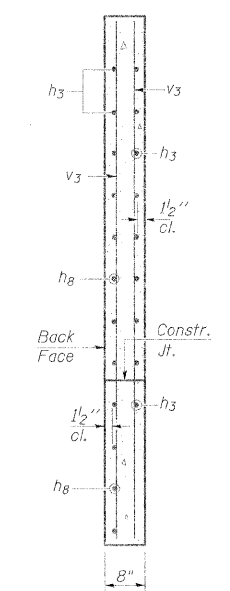


PLAN

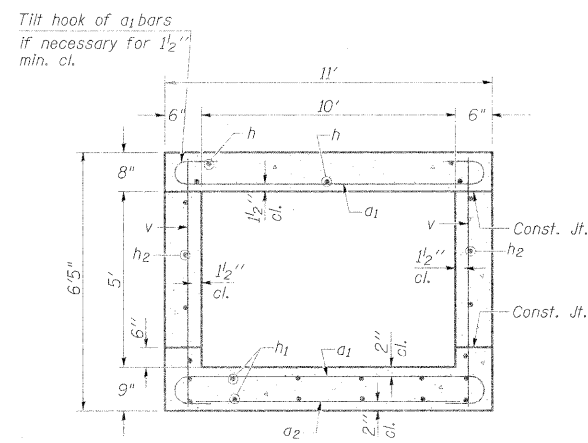
NOTES

Reinforcement Bars shall conform to the requirements of AASHTO M-31, M-42 or M-53, Grade 60.
Bars indicated thus 12 x 4-#5 etc. indicates 12 lines of bars with 4 lengths per line.
A distance of half the length of the wingwall but not less than six feet of the barrel shall be poured monolithically with the wingwalls.

All construction joints shall be bonded.
Expansion bolts shall be 3/4" ϕ x 12" hooked bolts. Hooked bolts shall extend a minimum of 9" into new concrete and have a minimum certified proof load of 4,080 lbs.



SECTION A-A



SECTION THRU BARREL

REVISIONS

DRAWN	2-04
REVISED	5-09 SHT CELL
REVISED	
REVISED	

BASED ON: **SSB-H-0** 6-1-2000