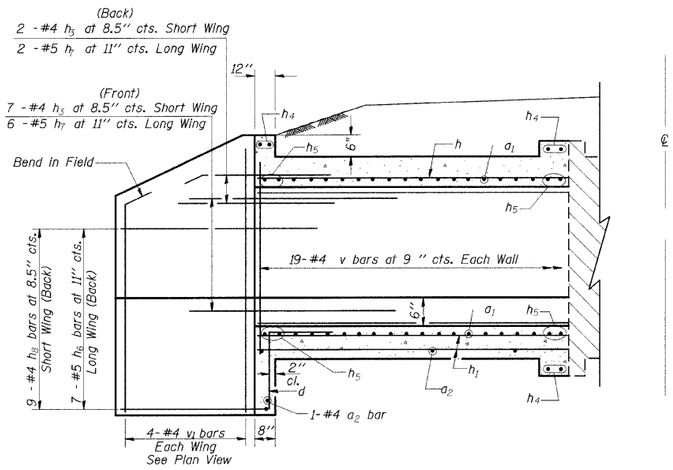
CONTRACT NO. 98542

F.A.S. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
932	(8,9,11)W,RS-1	•	401	170
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

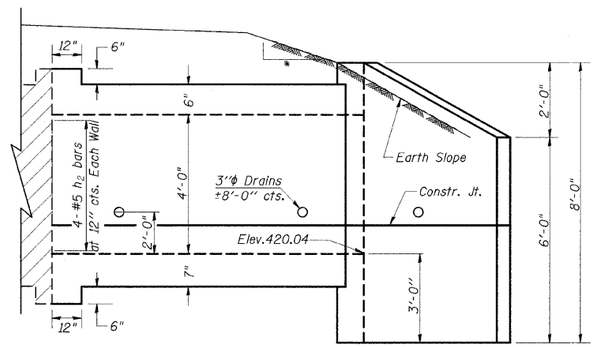
• JOHNSON/POPE

STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

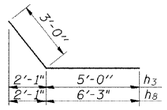


HALF LONG. SECTION

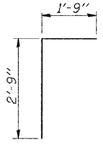


HALF ELEVATION

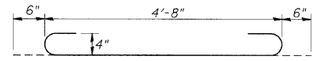
* 4:1 TO CLEAR ZONE
3:1 AFTER CLEAR ZONE



BARS h_3 & h_8



BAR d

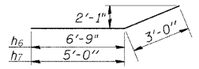


BAR a_1

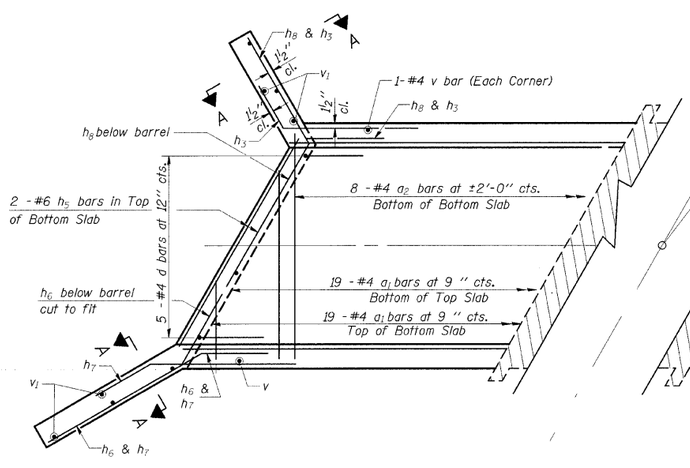
DESIGN STRESSES

fy = 60,000 psi
f'c = 3,500 psi

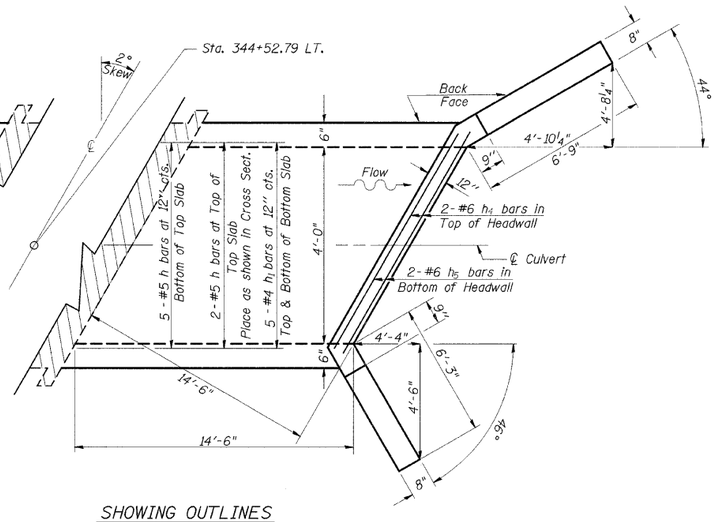
LOADING HS 20-44 & ALT.



BARS h_6 & h_7



SHOWING REINFORCEMENT



SHOWING OUTLINES

PLAN

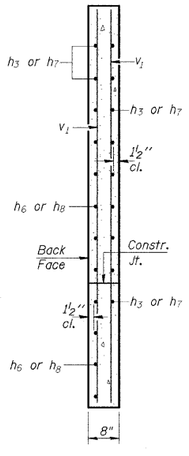
NOTES

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.

Reinforcement Bars shall conform to the requirements of AASHTO M-31, M-42 or M-53, Grade 60.

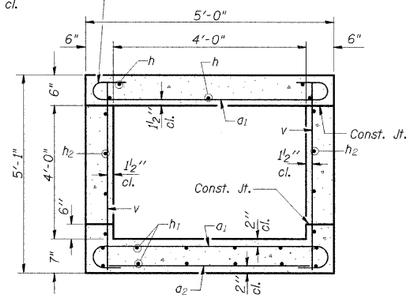
Bars indicated thus 12 x 4-#5 etc. indicates 12 lines of bars with 4 lengths per line.

All construction joints shall be bonded.

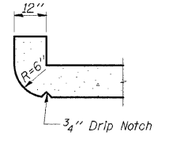


SECTION A-A

Tilt hook of a_1 bars if necessary for 1½" min. cl.



SECTION THRU BARREL



SECTION THRU HEADWALL
(Up Stream End Only)

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a_1	38	#4	5'-8"	
a_2	9	#4	4'-3"	
d	5	#4	4'-6"	
h	7	#5	14'-3"	
h_1	10	#4	14'-3"	
h_2	8	#5	14'-3"	
h_3	9	#4	8'-0"	
h_4	6	#6	4'-4"	
h_5	8	#6	4'-8"	
h_6	7	#5	9'-9"	
h_7	8	#5	8'-0"	
h_8	9	#4	9'-3"	
v	40	#4	4'-9"	
v_1	8	#4	7'-7"	
Expansion Bolts ¾"			Each	12
Concrete Box Culverts			Cu. Yd.	7.6
Reinforcement Bars			Pound	1010

PRECAST OPTION NOT ALLOWED

ILLINOIS DEPARTMENT OF TRANSPORTATION

BOX CULVERT EXTENSION

STATION 344+52.79 LT.

4' X 4', SKEW 2° RT. AH.

EXTEND 14'-6"

•DATE-TIME•
•DGN-SPEC•

SSB-H-R 6-1-2000