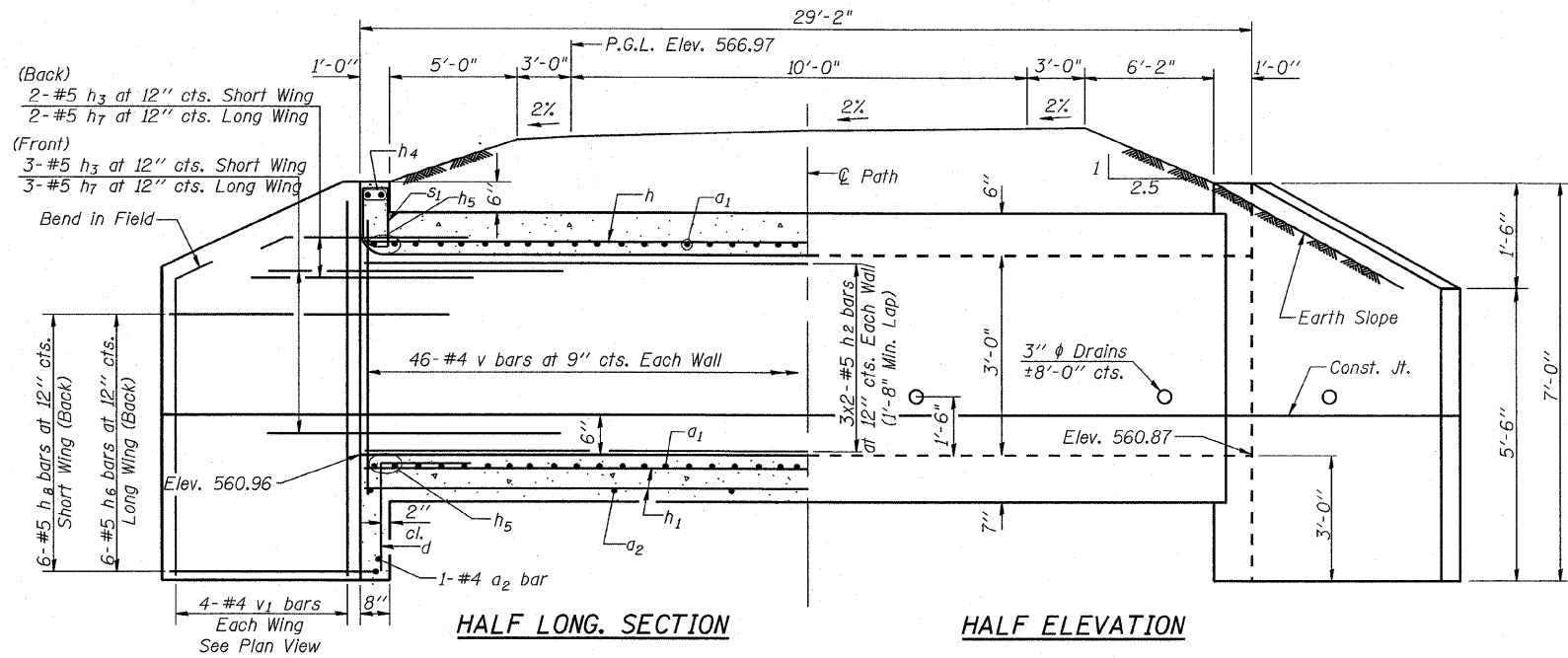


F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	06-00233-00-B1	ROCK ISLAND	75	26
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	



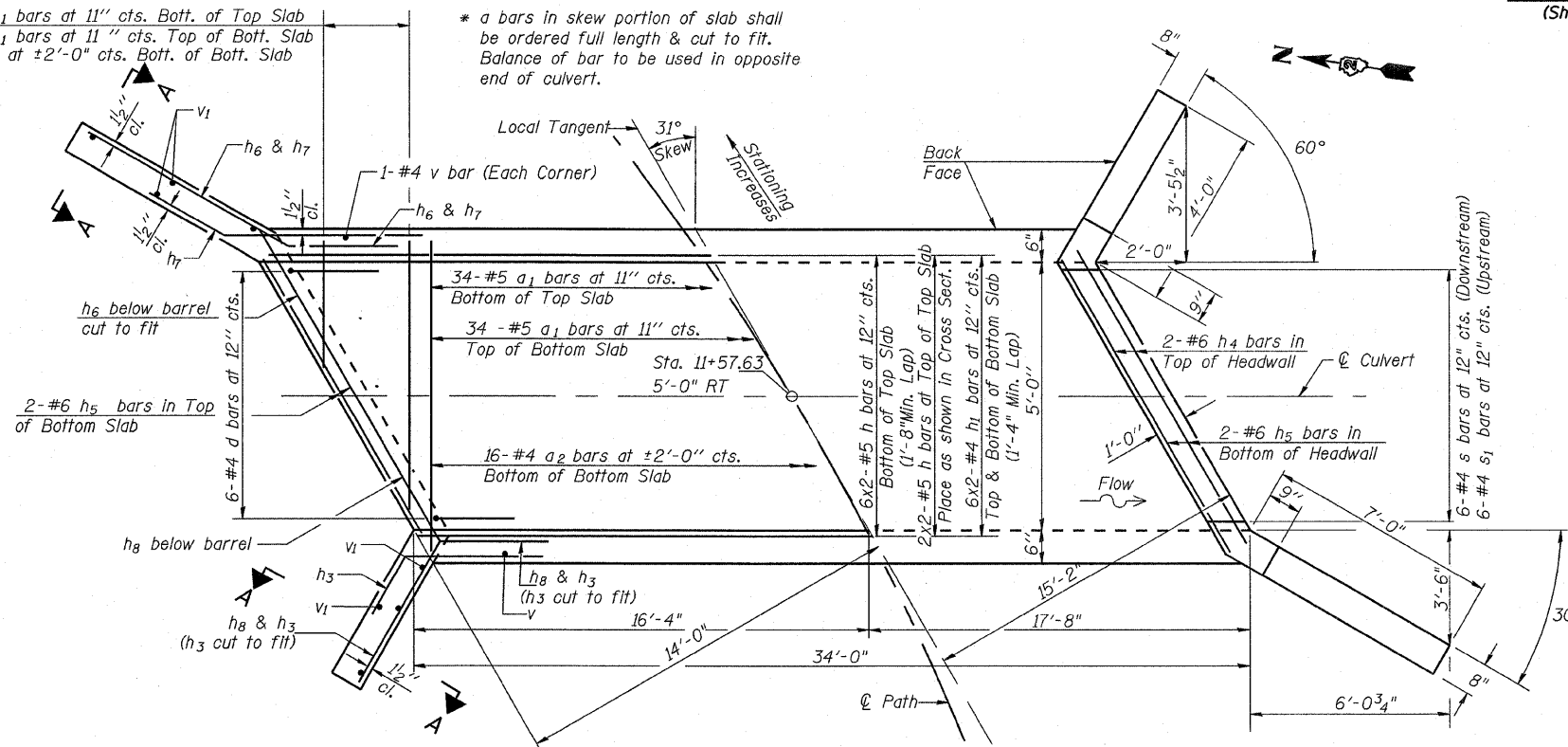
HALF LONG SECTION

HALF ELEVATION

Dimensions at Rt. L's to ϕ Path

- * 3-#5 a₁ bars at 11" cts. Bott. of Top Slab
- * 3-#5 a₁ bars at 11" cts. Top of Bott. Slab
- * 1-#4 a₂ at $\pm 2'-0"$ cts. Bott. of Bott. Slab

* a bars in skew portion of slab shall be ordered full length & cut to fit. Balance of bar to be used in opposite end of culvert.

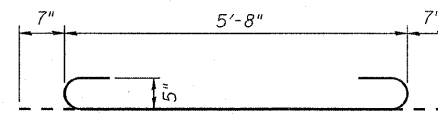


SHOWING REINFORCEMENT

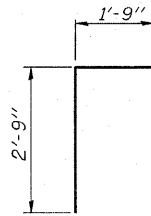
SHOWING OUTLINES

PLAN NOTES

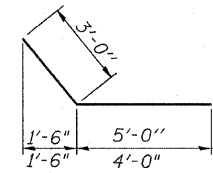
A distance of half the length of the wingwall but not less than six feet of the barrel shall be poured monolithically with the wingwalls. Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60. See Special Provisions. Bars indicated thus 12 x 4-#5 etc. indicates 12 lines of bars with 4 lengths per line.



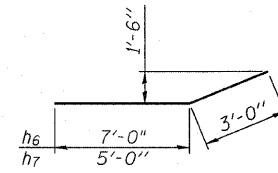
BAR a₁



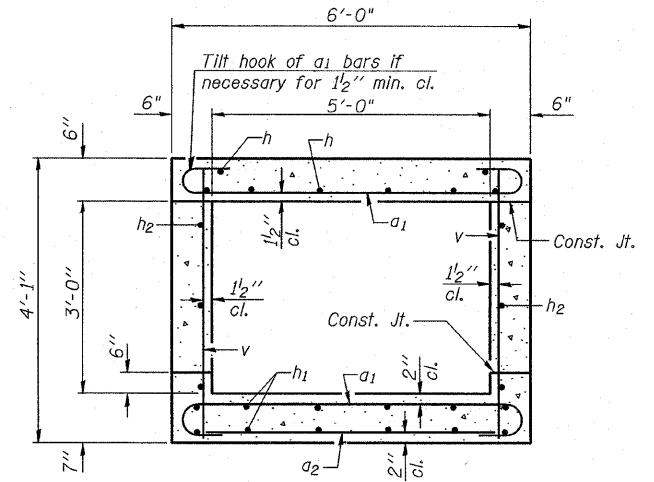
BAR d



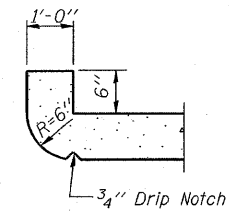
BARS h₃ & h₈
(Short Wing)



BARS h₆ & h₇
(Long Wing)



SECTION THRU BARREL

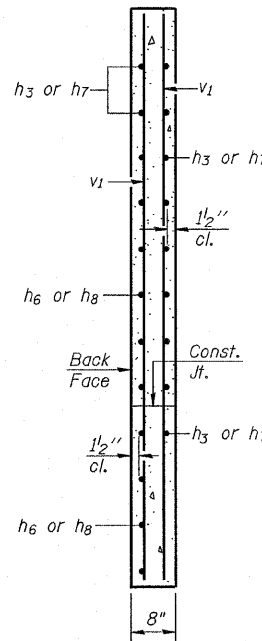


SECTION THRU HEADWALL
(Up Stream End Only)

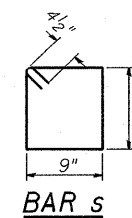
DESIGN STRESSES

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

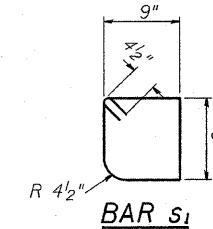
LOADING H-5



SECTION A-A



BAR s



BAR s₁

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a ₁	74	#5	6'-10"	U
a ₂	19	#4	5'-3"	—
d	12	#4	4'-6"	T
h	16	#5	17'-9"	—
h ₁	24	#4	17'-7"	—
h ₂	12	#5	17'-9"	—
h ₃	10	#5	8'-0"	—
h ₄	4	#6	6'-9"	—
h ₅	8	#6	6'-9"	—
h ₆	12	#5	10'-0"	—
h ₇	10	#5	8'-0"	—
h ₈	12	#5	7'-0"	—
s	6	#4	3'-9"	□
s ₁	6	#4	3'-7"	□
v	96	#4	3'-9"	—
v ₁	16	#4	6'-8"	—
Concrete Box Culverts			Cu. Yd.	16.5
Reinforcement Bars			Pound	2,280

Exp. 11/30/2010
JOHN G. FELLMAN
LICENSED STRUCTURAL ENGINEER
STATE OF ILLINOIS
John G. Fellman
4-1-2009

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
CULVERT DETAILS
STA. 11 + 57.63
SCALE: NTS
DATE 3/31/09
DRAWN BY MHM
CHECKED BY JBF

DATE * * * * *
PLOT NAME * * * * *
PLOT SCALE * * * * *
USER NAME * * * * *