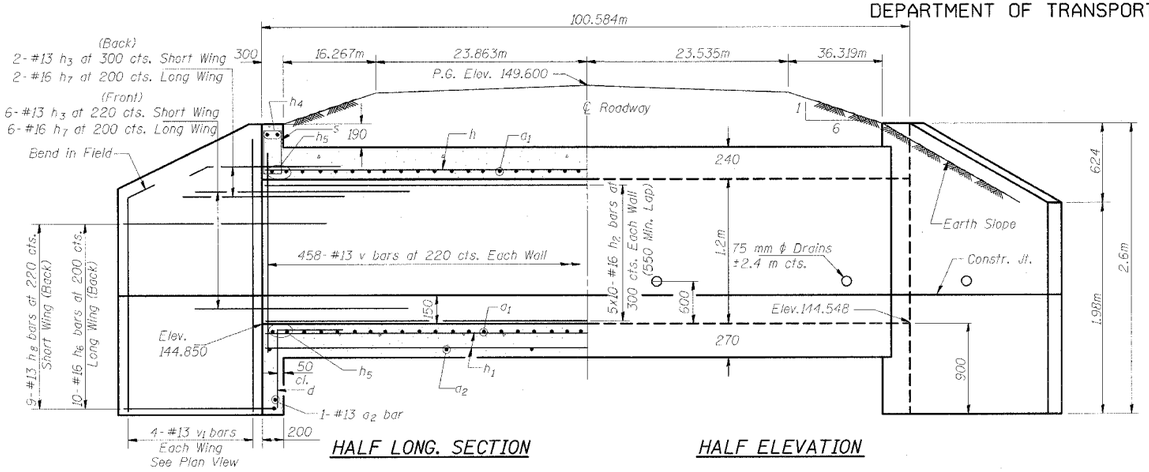
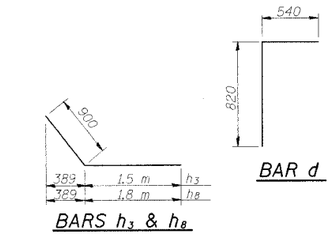
FAP ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
310	•	MADISON	452	150
STA.	33+056.676			
FED. ROAD DIST. NO. 6	ILLINOIS	FED. AID PROJECT-		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

• SECTION 60-14
SECTION 60-14-1B
CONTRACT NO. 76321

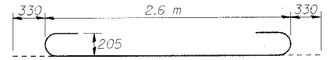


HALF LONG. SECTION HALF ELEVATION

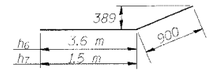


BAR d

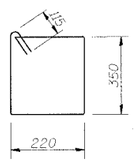
BARS h_3 & h_8



BAR a_1

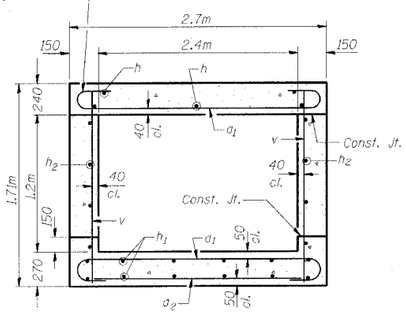


BARS h_6 & h_7



BAR s

Tilt hook of a_1 bars if necessary for 40 mm min. cl.



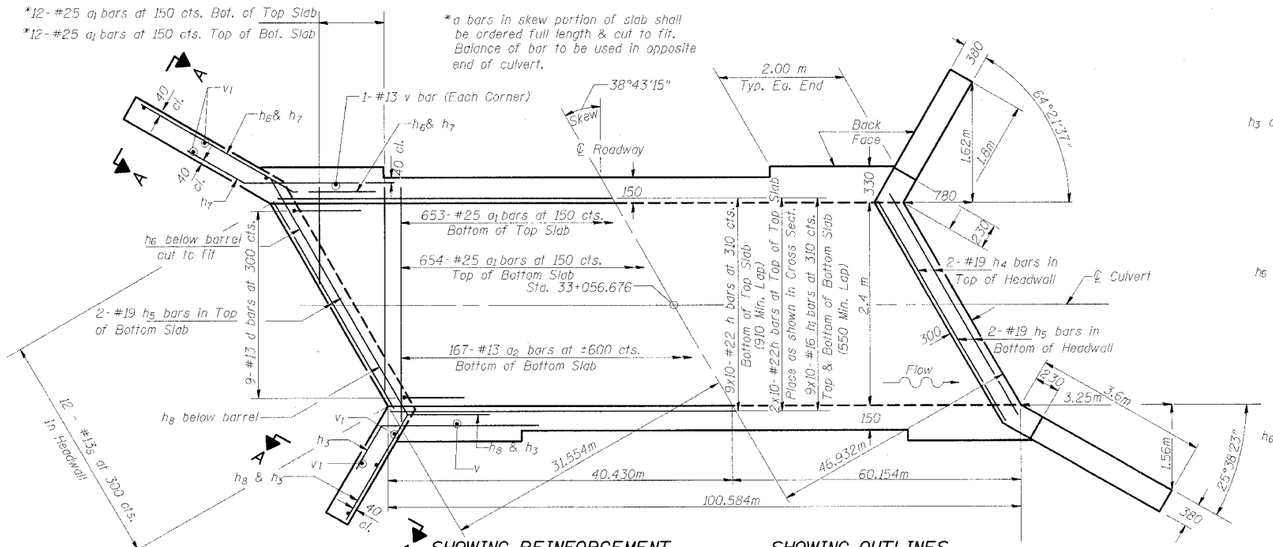
SECTION THRU BARREL

BILL OF MATERIAL

Bar	No.	Size	Length (m)	Shape
a_1	1333	#25	3.26	
a_2	169	#13	2.48	
d	18	#13	1.36	
h	110	#22	10.87	
h_1	180	#16	10.55	
h_2	100	#16	10.55	
h_3	16	#13	2.40	
h_4	4	#19	3.33	
h_5	8	#19	3.49	
h_6	20	#16	4.50	
h_7	16	#16	2.40	
h_8	18	#13	2.70	
v	920	#13	1.63	
v_1	16	#13	2.52	
s	24	#13	1.37	
Concrete Box Culverts			m^3	187.5
Reinforcement Bars			kg	27870

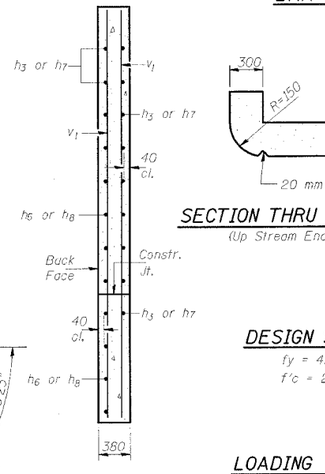
Dimensions at Rt. ∟'s to ℄ Roadway

*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.

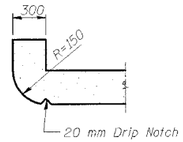


SHOWING REINFORCEMENT SHOWING OUTLINES

PLAN



SECTION A-A



SECTION THRU HEADWALL
(Up Stream End Only)

DESIGN STRESSES
fy = 420 MPa
f'c = 24 MPa

LOADING MS18 & ALT.

Design Fill Height (4.9m) Set By Noise Berm Elevation. See Culvert Profile , Sheet No.

NOTES

A distance of half the length of the wingwall but not less than 2 m of the barrel shall be poured monolithically with the wingwalls.

Reinforcement Bars shall conform to the requirements of AASHTO M-31M, M-42M or M-53M, Grade 420.

Bars indicated thus 12 x 4-#16 etc. indicates 12 lines of bars with 4 lengths per line.

All dimensions are in millimeters (mm) except as noted.

All construction joints shall be bonded.

DESIGNED
CHECKED
DRAWN
CHECKED

SSB-H-L (M) 6-1-2000

PLANS PREPARED BY:

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FA 310
SECTION 60-14
MADISON COUNTY
STATION 33+056.676