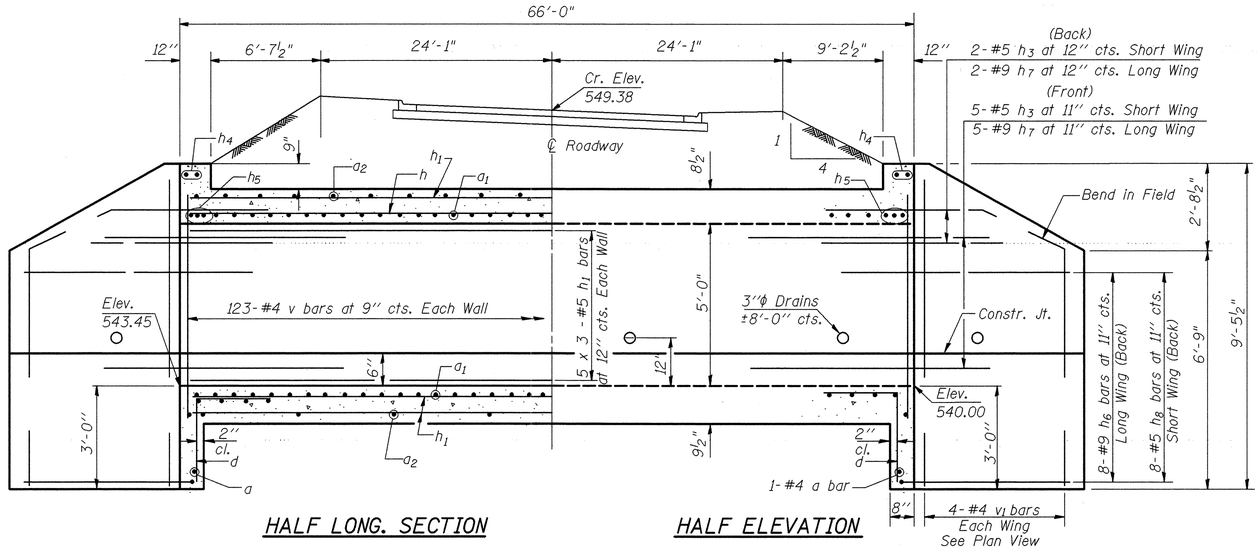
C.H.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
NA	98-00009-00-BR	SANGAMON	107	66
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

M.P.179 SPRINGFIELD SUBDIVISION

SHEET 1 OF 1

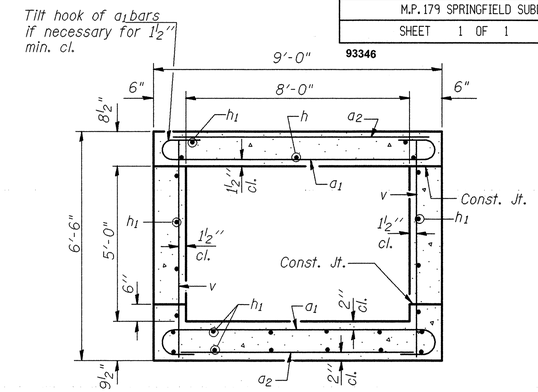
93346



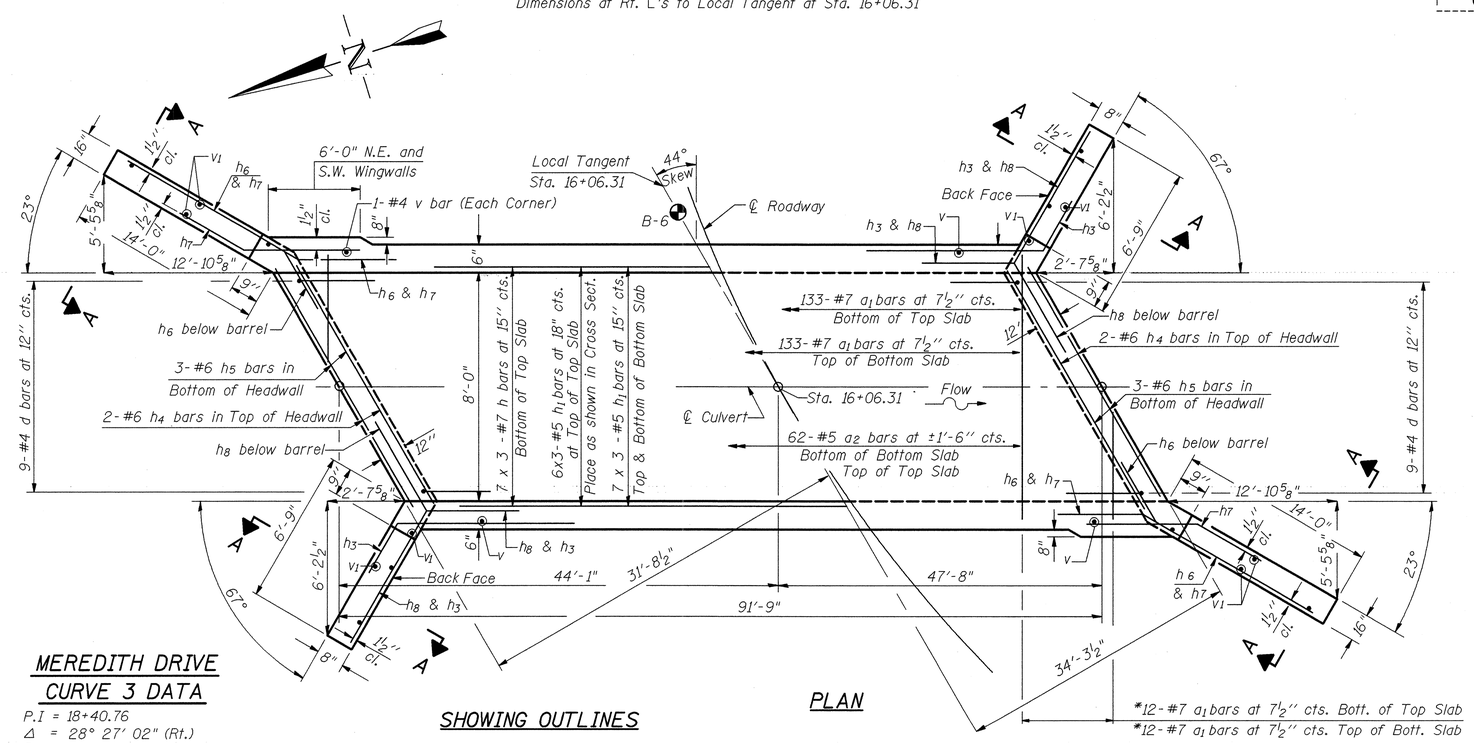
HALF LONG. SECTION

HALF ELEVATION

Dimensions at Rt. L's to Local Tangent at Sta. 16+06.31



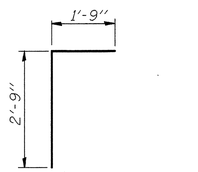
SECTION THRU BARREL



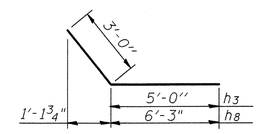
SHOWING OUTLINES

PLAN

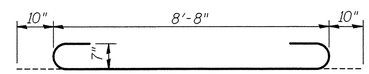
SHOWING REINFORCEMENT



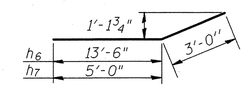
BAR d



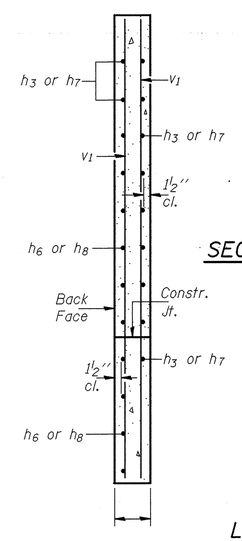
BARS h3 & h8



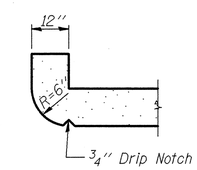
BAR a1



BARS h6 & h7



SECTION A-A



SECTION THRU HEADWALL

(Up Stream End Only)

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a	2	#4	11'-11"	
a1	290	#7	10'-4"	
a2	124	#4	8'-3"	
d	18	#4	4'-6"	
h	21	#7	32'-9"	
h1	90	#5	32'-0"	
h3	14	#5	8'-0"	
h4	4	#6	11'-11"	
h5	6	#6	12'-6"	
h6	16	#9	16'-6"	
h7	14	#9	8'-0"	
h8	16	#5	9'-3"	
v	250	#4	6'-2"	
v1	16	#4	9'-1"	
Concrete Box Culverts		Cu. Yd.	81.5	
Reinforcement Bars		Pound	14120	

MEREDITH DRIVE CURVE 3 DATA

P.I = 18+40.76
Δ = 28° 27' 02" (Rt.)
D = 5° 00' 00"
R = 1145.92'
T = 290.50'
L = 569.01'
E = 36.25'
S.E = 3.40%
P.C. Sta. 15+50.26
P.T. Sta. 21+19.27
S.E. Sta. Attained Sta. 14+20 to 16+15
S.E. Removed Sta. 20+54 to 22+49

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.

*a1 bars in skew portion of slab shall be ordered full length & cut to fit. Use remainder at other end.

DESIGN STRESSES

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

LOADING HS 20-44 & ALT.

8' x 5' R.C. BOX CULVERT MEREDITH DRIVE OVER TRIBUTARY TO SANGAMON RIVER SANGAMON COUNTY SEC. 98-00009-00-BR STA. 16+06.31

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DESIGNED BY:	CHECKED BY:	DRAWN BY:	DATE:
S.C.D.	D.R.B.	J.P.H.	1-3-03

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