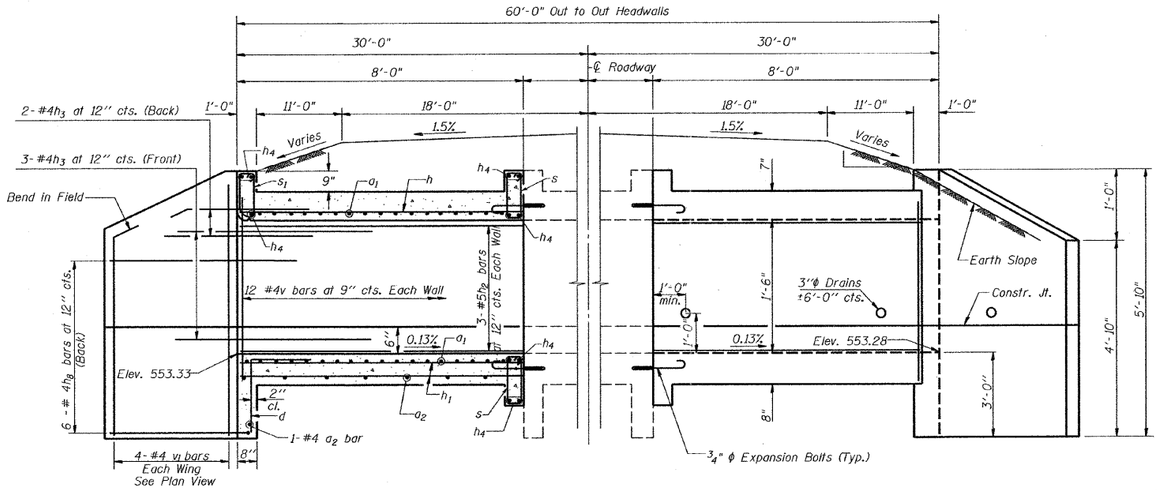
DESIGN		
INT.	DATE	REASON

PLOTS & CHECKS		
INT.	DATE	NO. REASON

CHECKS		
INT.	DATE	REASON

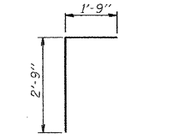
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
95	•	JASPER	546	276
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

•(5,6)Y,RS-2,6BR-7
CONTRACT NO. 94437

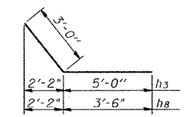


HALF LONG. SECTION

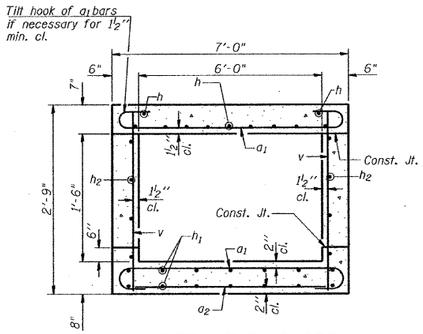
HALF ELEVATION



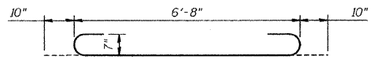
BAR d



BARS h_3 & h_8



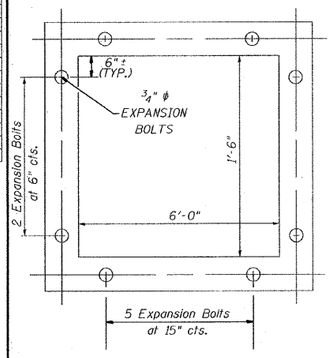
SECTION THRU BARREL



BAR a_1

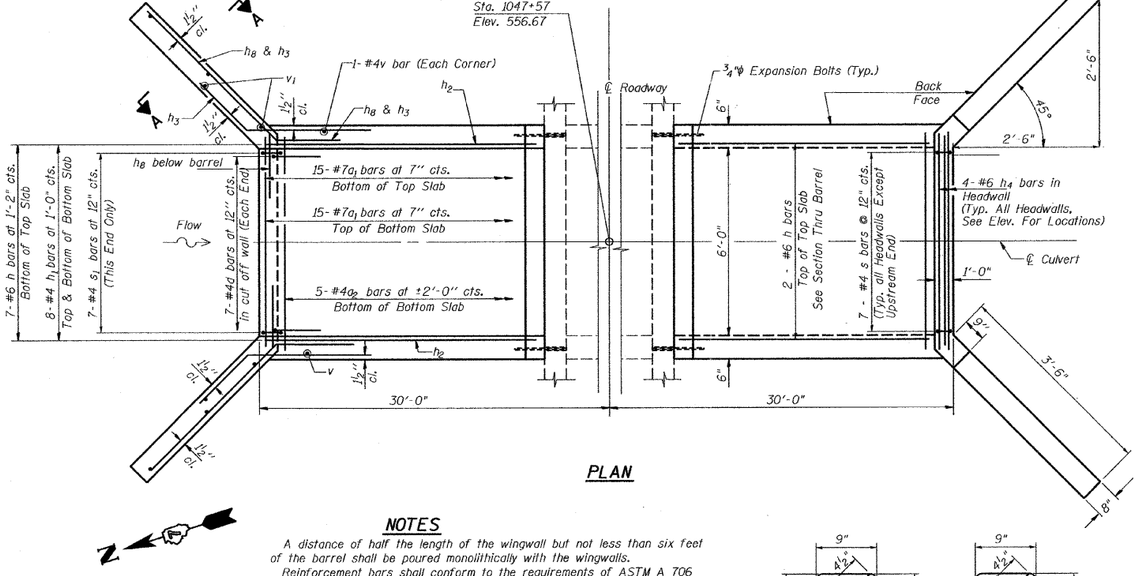
BILL OF MATERIAL STA. 1047+57

Bar	No.	Size	Length	Shape
a_1	60	#7	8'-4"	
a_2	12	#4	6'-9"	
d	14	#4	4'-6"	
h	18	#6	7'-9"	
h_1	32	#4	7'-9"	
h_2	12	#5	7'-9"	
h_3	20	#4	8'-0"	
h_4	24	#6	6'-9"	
h_8	24	#4	6'-6"	
s	35	#4	4'-5"	
s_1	7	#4	4'-3"	
v	52	#4	2'-6"	
v_1	16	#4	5'-7"	
Concrete Box Culverts			Cu. Yd.	10.0
Reinforcement Bars			Pound	2,310
Expansion Bolts 3/4 Inch			Each	28



CROSS SECTION THRU BARREL

Note:
Expansion Bolts shall be 3/4"ϕ hooked bolts. Hooked bolts shall extend a minumum of 9" into new concrete.



PLAN

NOTES

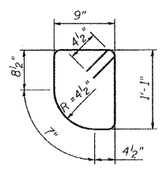
A distance of half the length of the wingwall but not less than six feet of the barrel shall be poured monolithically with the wingwalls.

Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60.

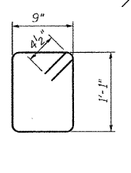
Bars indicated thus 12 x 4-#5 etc. indicates 12 lines of bars with 4 lengths per line.

All construction joints shall be bonded.

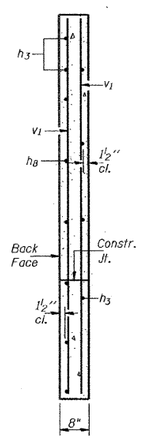
Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.



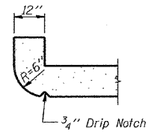
BAR s_1



BAR s



SECTION A-A



SECTION THRU HEADWALL
(Up Stream End Only)

DESIGN STRESSES

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

LOADING HS 20-44

REVISIONS	
NAME	DATE

Expires 11/30/10

ILLINOIS DEPARTMENT OF TRANSPORTATION

BOX CULVERT EXTENSION AT STA. 1047+57

FAP ROUTE 95 (IL RTE. 33)
SECTION (5,6)Y,RS-2,6BR-7
JASPER COUNTY

SCALE: VERT.
HORIZ.
DATE: 09/18/02

DRAWN BY: JAMESON
DESIGNED BY: COLBROOK
CHECKED BY: SANFORD

GREENE & BRADFORD, INC. OF SPRINGFIELD
CONSULTING ENGINEERS
2340 SOUTH 6TH STREET
SPRINGFIELD, ILLINOIS 62703
PROFESSIONAL DESIGN FIRM NO. 184-001673
(217) 753-5944, (800) 753-5277 (IL) E-MAIL: • WEBSITE: WWW.GREENE-BRADFORD.COM

COMPUTER FILE NO. DETAILS-3 - 50
PROJECT 01256
2/26/10-FAV

IDOTPL-50 1"=50' 8/07/00