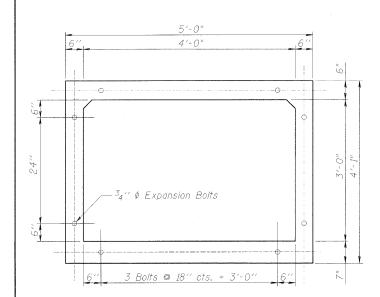
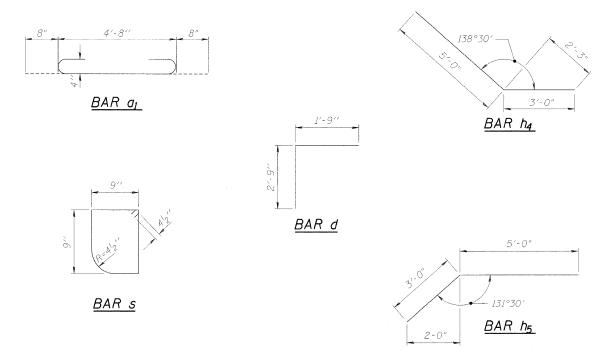


SECTION THRU HEADWALL

(Up Stream End Only)



SECTION THRU BARREL SHOWING EXPANSION BOLTS



BILL OF MATERIAL

Bar	No.	Size	Length	Shape	
a_1	32	#6	6'-0"		
<i>0</i> 2	5	#4	4'-8"		
d	5	#4	4'-6"		
h	7	#6	8'-3"		
hj	10	#4	6'-9"		
h2	6	#5	6'-9" 4'-9"		
h3 h4	10	#5	8'-0"		
h ₅	12	#5	8'-0"		
h ₆	1	#4	4'-2"		
S	6	#4	3′-9′′	U	
V	24	#4	3'-9"		
V ₁	8	#4	6′-8"		
Reinforcement Bars			Pound	880	
Concre	te Box	Cu. Yd.	4.4		
Concre	te Remo	Cu. Yd.	0.4		

GENERAL NOTES

- 1. Reinforcement bars shall conform to the requirements of ASTM A 706 Gr. 60. See Special Provisions.
- All construction joints shall be bonded.
 Expansion bolts shall be ³/₄" \$\phi\$ hooked bolts. Hooked bolts shall extend a min. of 9" into new concrete. Cost of ³/₄" \$\phi\$ expansion bolts shall be included with Concrete Box Culverts.
- 4. A distance of half the length of the wingwall but not less than six feet of the barrel shall be poured
- A district of fine burief shall be pouled monolithically with the wingwall.
 Structure Excavation required shall be according to Article 502 of the Standard Specifications. Cost of excavation shall not be paid for seperately but included with Concrete Box Culverts.

FILE NAME =	USER NAME = Heyen00951	DESIGNED - BWC	REVISED -			STATION 624 + 54.40		F.A. SECTION	COUNTY TOTA	L SHEET
I:\01jobs\01S2024A\CADD\Road\Sheet\C-50	I:\@1jobs\@1S2@24A\CADD\Road\Sheet\C-5@8B_Culv_Ext_Det.dgn		REVISED -	STATE OF ILLINOIS	3 X 4 BOX CULVERT			01-00001-01-BT	MCLEAN 50	37
	PLOT SCALE = 1.0000 '/ in.	CHECKED - BWC	REVISED -	DEPARTMENT OF TRANSPORTATION		EXTENSION DETAILS		C-95-301-10	CONTRACT NO.	91429
	PLOT DATE = 11\19\2009	DATE - 11/03/2009 REVISED -	REVISED -		SCALE: N.T.S.	SHEET NO. 2 OF 2 SHEETS STA.	TO STA.	ILLINOIS FED. A	ID PROJECT	