

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
17	16-T	CARROLL	47	22
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

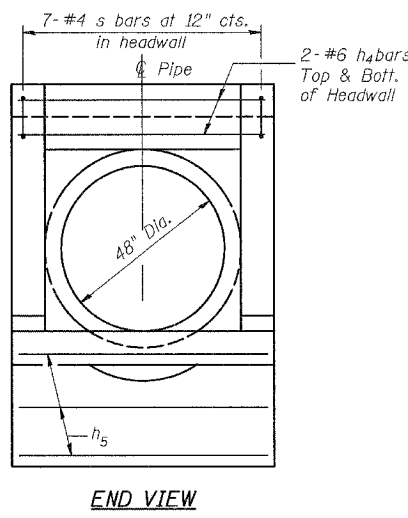
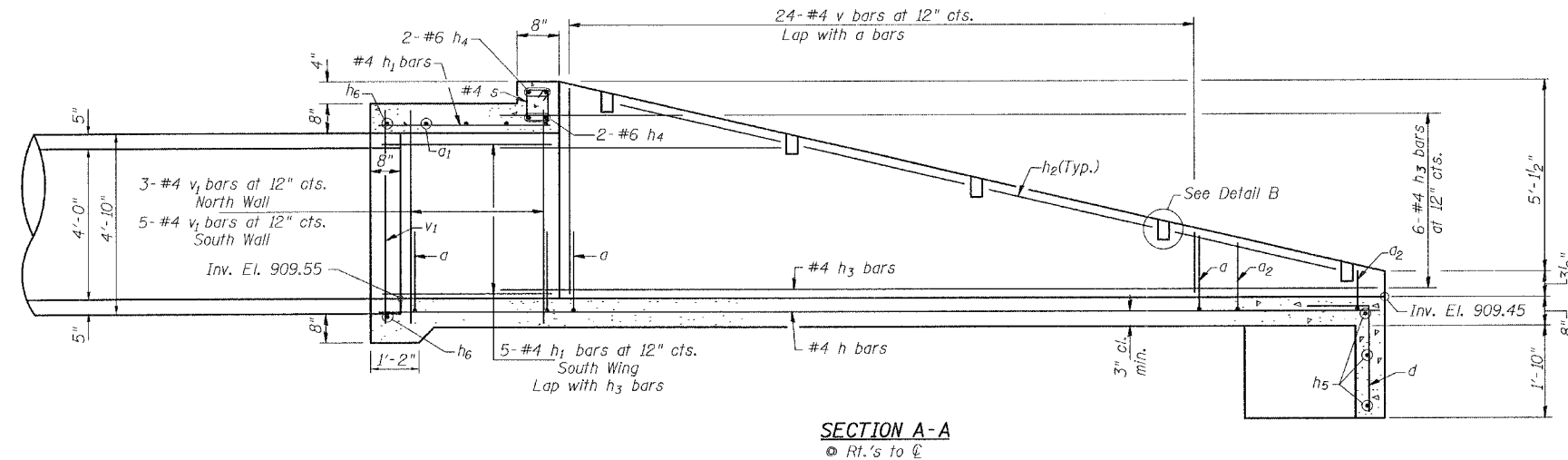
**CONTRACT NO. 64897**

NOTE: CLASS SI CONCRETE SHALL BE USED THROUGHOUT.  
 EXPOSED EDGES SHALL BE BEVELED 3/4"  
 REINFORCEMENT SHALL CONFORM TO THE REQUIREMENTS OF AASHTO 31 OR M322, GRADE 60.  
 STEEL PIPE SHALL CONFORM TO ASTM A53 GRADE B OR ASTM A501.  
 ALL STEEL PLATES SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M 270, GRADE 50.  
 BOLTS AND NUTS SHALL CONFORM TO THE REQUIREMENTS OF ASTM DESIGNATION A 307.  
 ALL BOLTS, NUTS, WASHERS AND LOCK WASHERS SHALL BE GALVANIZED ACCORDING TO AASHTO M 322.  
 ALL PLATES AND PIPES SHALL BE GALVANIZED AFTER SHOP FABRICATION ACCORDING TO AASHTO M 111 AND ASTM A 385.  
 CALCULATED WEIGHT OF STEEL = 1,280 LBS.  
 ALL WORK AND MATERIAL INCORPORATED INTO THE CONSTRUCTION OF THE GRATED CULVERT EXTENSION, NO 1, SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR "GRATED CULVERT EXTENSION, NO 1".

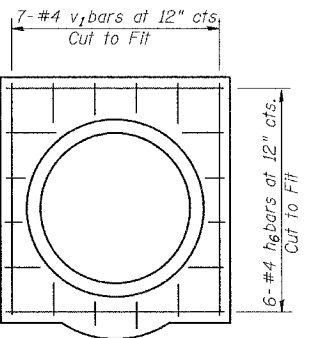
(FOR INFORMATION ONLY)

**BILL OF MATERIAL**

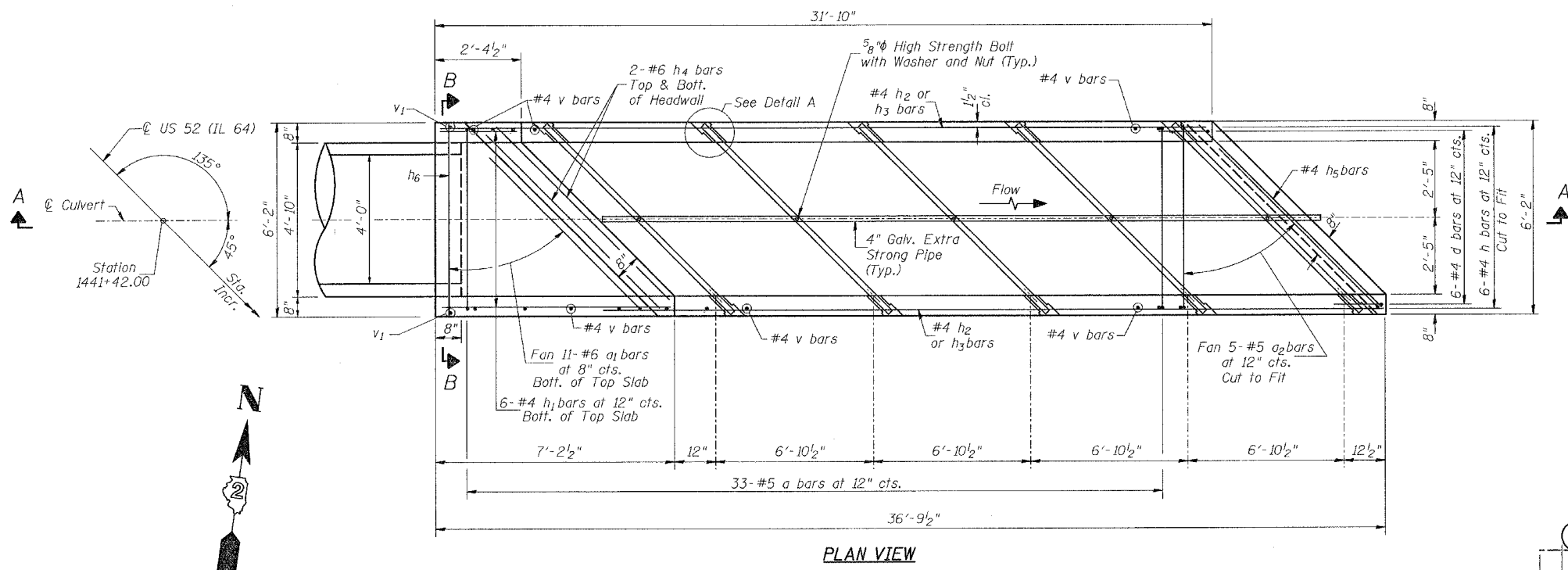
BAR	NO.	SIZE	LENGTH	SHAPE
a	33	#5	9'-11"	L
a <sub>1</sub>	11	#6	6'-5"	C
a <sub>2</sub>	5	#5	7'-7"	L
d	6	#4	3'-9"	L
h	6	#4	36'-6"	—
h <sub>1</sub>	11	#4	6'-11"	—
h <sub>2</sub>	8	#4	5'-11"	—
h <sub>3</sub>	6	#4	31'-7"	—
h <sub>4</sub>	4	#6	7'-11"	—
h <sub>5</sub>	3	#4	7'-11"	—
h <sub>6</sub>	6	#4	5'-11"	—
s	7	#4	3'-1"	□
v	24	#4	5'-2"	—
v <sub>1</sub>	15	#4	4'-8"	—
Concrete Structures		CU YD	11.8	
Reinforcement Bars		FOUND	980	
4" Galvanized Extra Strong Pipe		FOOT	75	
4" Galv. Pipe Caps		EACH	10	



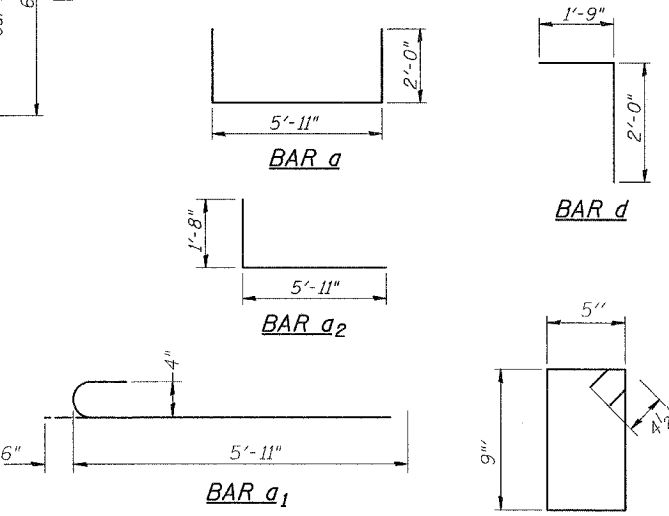
**SECTION A-A**  
 Ref. to C



**SECTION B-B**

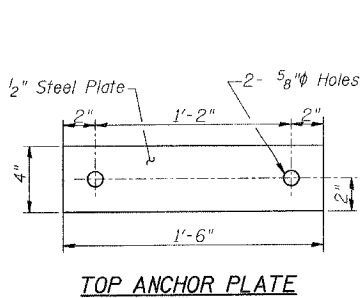


**PLAN VIEW**

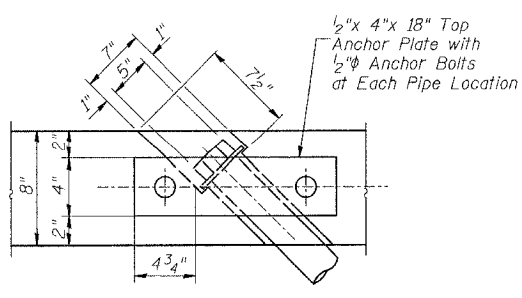


**BAR CUTTING DIAGRAM**  
 Order h<sub>3</sub> bars full length. Cut as shown and use remainder of bars in opposite wingwall.

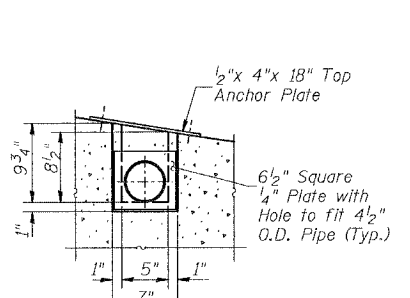
**BAR CUTTING DIAGRAM**  
 Order v bars full length. Cut as shown and use remainder of bars in opposite wingwall.



**TOP ANCHOR PLATE**



**DETAIL A**



**DETAIL B**

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 FAP ROUTE 17  
 GRATED CULVERT EXTENSION, NO 1  
 STA 1441+70.6  
 DRAWN BY TAC  
 CHECKED BY AN  
 DATE 8/10/2006