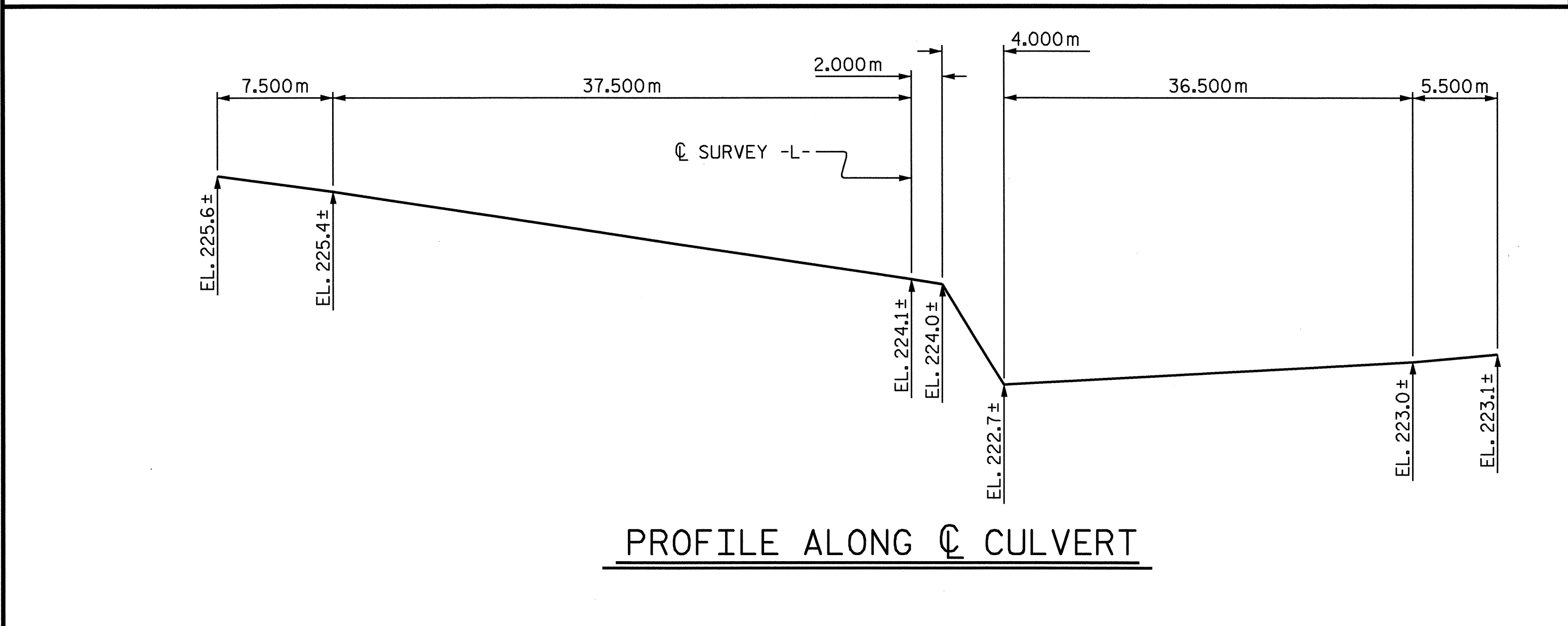
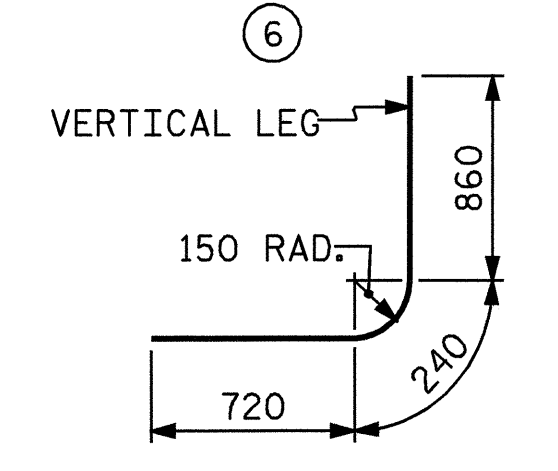


LOCATION SKETCH



PROFILE ALONG CULVERT

BAR SCHEDULE						
BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT	
A1	748	#19	6	1820	3043	
A2	748	#19	6	1820	3043	
A100	405	#25	STR	3680	5921	
A101	4	#25	STR	3080	49	
A102	4	#25	STR	2460	39	
A103	4	#25	STR	1880	30	
A104	4	#25	STR	1300	21	
A105	4	#25	STR	720	11	
A200	431	#25	STR	3680	6301	
A201	4	#25	STR	3100	49	
A202	4	#25	STR	2540	40	
A203	4	#25	STR	1980	31	
A204	4	#25	STR	1420	23	
A205	4	#25	STR	880	14	
B1	570	#13	STR	2920	1654	
B2	748	#16	STR	2180	2531	
C1	531	#13	STR	8400	4434	
F1	46	#13	STR	2560	117	
G1	4	#13	STR	4300	17	
S2	12	#25	STR	4300	205	
T2	16	#16	STR	1580	39	
REINFORCING STEEL				= 27612 kg		



BAR TYPE  
DIMENSIONS ARE OUT TO OUT

HYDRAULIC DATA

DESIGN DISCHARGE	= 15.0 m <sup>3</sup> /s
FREQUENCY OF DESIGN FLOOD	= 50 YEARS
DESIGN HIGH WATER ELEVATION	= 224.93
DRAINAGE AREA	= 1.19 km <sup>2</sup>
BASIC DISCHARGE (Q100)	= 17.3m <sup>3</sup> /s
BASIC HIGH WATER ELEVATION	= 225.14

ROADWAY DATA

GRADE POINT ELEV. @ STATION 46+85.000 -L-	= 231.321
BED ELEV. @ STATION 46+85.000 -L-	= 222.360
ROADWAY SLOPES	= 2:1

OVERTOPPING FLOOD DATA

OVERTOPPING DISCHARGE	= > 25.5m <sup>3</sup> /s
FREQUENCY OF OVERTOPPING FLOOD	= > 500+ YEARS
OVERTOPPING FLOOD ELEVATION	= 231.11m

TOTAL STRUCTURE QUANTITIES		
CLASS A CONCRETE		
BARREL @ 3.670 m <sup>3</sup> /m	260.7	m <sup>3</sup>
WINGS ETC.	19.5	m <sup>3</sup>
TOTAL	280.2	m <sup>3</sup>
REINFORCING STEEL		
BARREL	27612	kg
WINGS ETC.	746	kg
TOTAL	28358	kg
CULVERT EXCAVATION	----- LUMP SUM	
FOUNDATION COND. MAT'L	---- 177 METRIC TONS	



PROJECT NO. R-2568B  
DAVIDSON COUNTY  
 STATION: 46+85.000 -L-

SHEET 1 OF 3

STATE OF NORTH CAROLINA  
 DEPARTMENT OF TRANSPORTATION  
 RALEIGH

SINGLE 3.4m X 2.4m  
 CONCRETE BOX CULVERT  
 120° SKEW

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	C-1
1			3			TOTAL SHEETS
2			4			3

ASSEMBLED BY : CR LEWIS DATE : 06/04  
 CHECKED BY : MG CHEEK DATE : 08/04  
 DRAWN BY : EEM 6/97  
 CHECKED BY : ARB 7/97