

# EARTHWORKS

																				SUMMARY AND BALANCES														
STATION		TOTAL EXCAVATION EARTH AND ROCK		ROCK EXCAVATION		EMBANKMENT				TOTAL EXCAVATION EARTH AND ROCK		ROCK EXCAVATION		EMBANKMENT				STATION TO STATION		TOT EXC. EARTH & ROCK C.Y.	ROCK EXCAV C.Y.	EMBANK C.Y.	EXCESSES		ACUMULATIVE EXCESSES									
STATION	DIST	AREA	VOLUME	AREA	VOLUME	AREA	VOLUME	AREA	VOLUME	STATION	DIST	AREA	VOLUME	AREA	VOLUME	AREA	VOLUME	AREA	VOLUME	STATION TO STATION			CUT	FILL	CUT	FILL								
FT.	S.F.	C.Y.	S.F.	C.Y.	S.F.	C.Y.	S.F.	C.Y.	S.F.	C.Y.	FT.	S.F.	C.Y.	S.F.	C.Y.	S.F.	C.Y.	S.F.	C.Y.	FT.	S.F.	C.Y.	S.F.	C.Y.	S.F.	C.Y.	S.F.	C.Y.						
COMMON EXCAVATION										216+50		186.15									STRUCTURE EXC.	1872	0	512	1872		1872							
203+27	64.0	43.18	102.4							217+00	50.0	166.81	326.8																					
203+91	25.0	66.64	61.7							217+50	26.0	196.98	213.4																					
204+16										24+00	50.0	246.31	307.1																					
215+40	10.0	0.00	4.3							24+50	50.0	85.37	307.1																					
215+50	50.0	23.04	79.9							24+90	40.0	60.06	107.7																					
216+00	30.0	63.22	72.8							CAHEE BROOK SECTIONS																								
216+30	20.0	67.88	50.1							1+32	18.0	120.00	81.4																					
216+50	50.0	67.43	123.4							1+50	25.0	124.13	202.4																					
217+00	50.0	65.88	61.0							1+75	27.0	313.10	331.5																					
217+50		0.00								2+02		349.80																						
UNCLASSIFIED CHANNEL EXCAVATION										BOX CULVERT INLET																								
RIVER CHANNEL SECTIONS											13.0	64.00	30.8																					
9+40	10.0	154.08	67.3							BOX CULVERT OUTLET																								
9+50	50.0	209.35	384.0								14.0	64.00	33.2																					
10+00	50.0	205.42	306.0				7.8																											
10+50	50.0	125.03	282.1			8.44	7.8																											
11+00	50.0	179.60	431.1																															
11+50	50.0	285.96	510.3																															
12+00	50.0	265.21	335.7																															
12+50	25.0	97.39	84.4																															
12+75		84.95																																
UNCLASSIFIED CHANNEL EXCAVATION																																		
ROUTE 12A SECTIONS																																		
206+00	50.0	260.02	509.4																															
206+50	50.0	290.13	504.0																															
207+00	50.0	254.20	447.7																															
207+50	50.0	229.30	453.5																															
208+00	50.0	260.44	438.0																															
208+50	50.0	212.56	464.0																															
209+00	50.0	288.60	387.4				0.9																											
209+50	50.0	129.81	219.0			1.01	3.6																											
210+00	50.0	106.72	249.1			2.92	2.7																											
210+50	50.0	162.33	309.7																															
211+00	50.0	172.10	330.6																															
211+50	50.0	184.96	385.0																															
212+00	50.0	230.81	443.2																															
212+50	50.0	247.85	462.8																															
213+00	50.0	251.95	430.7																															
213+50	50.0	213.17	377.4																															
214+00	50.0	194.40	314.8				0.0																											
214+50	50.0	145.56	254.3			3.79	6.6																											

REMARKS	
EARTH AND ROCK EXCAVATION	556
SOLID ROCK EXCAVATION	0
EARTH EXCAVATION	556
PLANIMETERED FILL	542
LESS FACTORED SOLID ROCK	0
LESS DISPLACEMENT OF ANY LARGE STRUCTURES	0
NET PLANIMETERED FILL	542
FACTOR	1.15
PLANIMETERED FILL INCLUDING FACTOR	623.3
MATERIALS AVAILABLE FOR FILLS	
EARTH EXCAVATION	556
UNCLASSIFIED CHANNEL EXCAVATION	12490
UNDERDRAIN EXCAVATION	0
STRUCTURE EXCAVATION	1872
TOTAL MATERIAL AVAILABLE FOR FILL	14917
TOTAL FILL INCLUDING FACTOR	623
TOTAL MATERIAL FOR FILL	14917
BORROW	0
EXCESS EXCAVATION	14294

PROJECT NAME: BRAINTREE  
 PROJECT NUMBER: ER STP 0187(I2)  
 FILE NAME: z12c526frrm.dgn  
 PROJECT LEADER: G. EDWARDS  
 DESIGNED BY: I. MAYNARD  
 PLOT DATE: 1/10/2014  
 DRAWN BY: G. BURGMEIER  
 CHECKED BY: M. FOISY  
 SHEET 9 OF 72

