EARTHWORK SCHEDULE

LOCATION	DESCRIPTION	1	2	3	4	5	6	7
		THEORETICAL		ADJUSTED EARTHWORK			EXCESS (BORROW)	CUMULATIVE EXCESS (BORROW)
		CUT	FILL	CUT	FILL	FILL x 1.25		
		CU YD		CU YD				
CH 19	242+00 TO 252+00	1954	1147	1954	1147	1433	521	(136)
	252+00 TO 262+00	2431	9948	2431	9948	12434	(10003)	(10068)
	262+00 TO 273+00	3437	4560	3437	4560	5700	(2263)	(12331)
TOTAL		7823	15654	7823	15654	19568	(11745)	

NOTES:

A MASS DIAGRAM FOR THE EARTHWORK IS NOT INCLUDED IN THESE PLANS AND WILL NOT BE AVAILABLE TO THE CONTRACTOR UPON REQUEST. THE EARTHWORK SCHEDULE HAS BEEN INCLUDED IN THESE PLANS TO TAKE THE PLACE OF THE NEED FOR A MASS DIAGRAM. THE SCHEDULE GIVES QUANTITIES IN "COLUMN 6" FOR EXCESS EXCAVATION OR BORROW REQUIRED IN EACH SPECIFIED AREA ALONG THE LIMITS OF THE PROJECT. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THE REQUIRED HAUL DISTANCES AND QUANTITIES FROM THE INFORMATION SHOWN.

THE QUANTITIES SHOWN IN THE SCHEDULE INCLUDE ALL MAINLINE, SIDE ROAD, AND ENTRANCE QUANTITIES IN EACH SPECIFIED AREA.

ALL TOPSOIL NECESSARY FOR PLACEMENT ON THIS PROJECT SHALL BE TAKEN FROM CUT AREAS WITHIN THE CONSTRUCTION LIMITS.

A SHRINKAGE FACTOR OF 20% WAS USED TO DETERMINE THE EXCESS AND BORROW QUANTITIES. SHRINKAGE FACTOR = 1.00/(1.00-0.20) = 1.0/0.80 = 1.25

COLUMN 5 = COLUMN 4 x 1.25 (SHRINKAGE FACTOR)

COLUMN 6 = COLUMN 3 - COLUMN 5

FURNISHED EXCAVATION = COLUMN 6 /1.25

(PAY ITEM QUANTITY) = 9,396 CU YD

EARTH EXCAVATION = COLUMN 3

(PAY ITEM QUANTITY) = 7,823 CU YD

ENTRANCE SCHEDULE

LOCATION	TYPE	SIDE	AGGREGATE SURFACE COURSE, TYPE B	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50	AGGREGATE BASE COURSE, TYPE A
			TON		
216+11.0	PE	RT	3.4		
217+40.0	PE	RT	3.0		
223+00.00	MBTO	RT		1.2	
223+56.4	PE	LT	10.4		
224+95.4	FE	LT	3.3		
227+10.3	FE	RT	3.0		
234+36.2	FE	RT	3.0		
241+15.3	FE	RT	2.9		
241+14.0	FE	LT	3.0		
247+74.0	FE	RT	6.6		
251+55.0	FE	RT	6.8		
256+70.0	MBTO	RT		2.1	
256+80.0	FE	LT	6.6		
256+80.0	PE	RT	16.5		11.2
270+65.0	PE	LT	21.0		28.0
270+65.0	FE	RT	6.7		
270+75.0	MBTO	LT		2.4	
273+00.0	FE	LT	6.7		
280+06.0	FE	LT	2.1		
280+10.1	FE	RT	2.1		
PROJECT TOTAL			107.0	5.7	39.2
USE			107	6	40

PIPE CULVERT REMOVAL

STATION	SIDE	DIAMETER	TYPE	FOOT
247+74	RT	15"	PCC	38.0
248+00	RT & LT	18"	PCC	46.8
251+58	RT	15"	CMP	24.0
254+50	RT & LT	36"	PCC	53.4
260+17	RT	18"	PCC	38.0
272+30	RT & LT	18"	PCC	46.3
272+49	LT	15"	CMP	26.0
TOTALS				272.5
USE				273

TREE REMOVAL (OVER 15 UNITS IN DIAMETER)

STATION	SIDE	OFFSET	UNITS DIAMETER
246+42	RT	56'	54.0
253+82	RT	48'	27.0
TOTALS			81.0
USE			81

PIPE CULVERT SCHEDULE

STATION	SIDE	TYPE	CLASS D 18" TYPE 2	CLASS A TY 2 24"	CLASS A TY 2 30"	CLASS A TY 3 36"	P.R.C.F. END SECTIONS 24"	P.R.C.F. END SECTIONS 30"	P.R.C.F. END SECTIONS 36"	CONCRETE STRUCTURES	TRENCH BACKFILL
			FOOT				EACH			CU YD	CU YD
247+74	RT	PIPE CULVERT	38								
248+00	RT & LT	PIPE CULVERT			48			2			26.3
254+50	RT & LT	PIPE CULVERT				100			1	1	243.2
260+15	RT & LT	PIPE CULVERT		76			2				109.3
268+30	RT & LT	PIPE CULVERT			72			2			98.2
272+30	RT & LT	PIPE CULVERT		48			2				16.9
273+00	LT	PIPE CULVERT	34								
TOTALS			72	124	120	100	4	4	1	1	493.9
USE			72	124	120	100	4	4	1	1	494

STONE RIPRAP, CLASS A4

STATION TO STATION	SIDE	LENGTH FT	WIDTH FT	TON
247+96.25 TO 248+03.75	RT	8.4	8.5	4.0
254+45.50 TO 254+54.50	RT	14.4	9.0	7.2
260+11.00 TO 260+19.00	RT	16.1	8.0	7.2
268+26.25 TO 268+33.75	RT	16.3	8.5	7.7
272+26.01 TO 272+34.01	RT	12.9	8.0	5.7
TOTAL				31.8
USE				32