TEMPORARY DITCH CHECKS					
STATION TO STATION			QUANTITY	INDIVIDUAL LENGTH	LENGTH (FEET)
669+74.30	TO	684+00	45	12	540
684+00	TO	699+00	31	12	372
699+00	TO	714+00	62	12	744
714+00	TO	729+00	53	12	636
729+00	TO	744+00	43	12	516
744+00	TO	759+00	35	12	420
759+00	TO	774+00	27	12	324
774+00	TO	789+00	29	12	348
789+00	TO	804+00	41	12	492
804+00	TO	819+00	26	12	312
819+00	TO	834+00	22	12	264
834+00	TO	849+00	57	12	684
849+00	TO	864+00	35	12	420
864+00	TO	872+45	20	12	240
SUBTOTAL			526	12	6312
REINSTALLATIONS - 50%			263	12	3156
TOTAL					9468

INLET & PIPE PROTECTION			
STATION TO STATION			EACH
669+74.30	TO	684+00	8
684+00	TO	699+00	4
699+00	TO	714+00	1
714+00	TO	729+00	3
729+00	TO	744+00	3
744+00	TO	759+00	1
759+00	TO	774+00	3
774+00	TO	789+00	4
789+00	TO	804+00	7
804+00	TO	819+00	3
819+00	TO	834+00	5
834+00	TO	849+00	1
849+00	TO	864+00	3
864+00	TO	872+45	4
TOTAL			50

PERIMETER EROSION BARRIER				
STATION TO STATION				LENGTH (FT)
698+00	TO	698+69	RT	69
698+83	TO	704+92	RT	615
705+31	TO	709+00	RT	378
738+50	TO	740+05	RT	168
741+00	TO	741+76	RT	91
857+50	TO	863+00	RT	551
700+91	TO	703+48	LT	258
716+23	TO	718+00	LT	181
AROUND ENTRANCE AT MORNINGSTAR HIGHWAY			LT	341
797+31	TO	798+00	LT	75
866+00	TO	867+70	LT	171
TOTAL				2829

SEDIMENT BASINS		
STATION	EARTH EXCAVATION FOR EROSION CONTROL (CU YD)	AGGREGATE (EROSION CONTROL) (TON)
673+95 RT	29.6	4.9
682+95 RT	29.6	4.9
698+75 RT	29.6	4.9
705+00 RT	29.6	4.9
714+85 RT	29.6	4.9
742+20 RT	29.6	4.9
752+40 RT	29.6	4.9
772+90 LT	29.6	4.9
793+50 LT	29.6	4.9
797+50 LT	29.6	4.9
828+50 LT	29.6	4.9
864+40 LT	29.6	4.9
TOTAL	355	59

FABRIC FORMED CONCRETE REVETMENT MAT						
LOCATION				WIDTH	LENGTH	PAY AREA
STATION TO STATION				FT.	FT.	SQ. YD.
683+14	TO	683+60	LT	38	38	160
828+41	TO	828+58	RT	17	17	32
828+34	TO	828+58	LT	16	34	60
TOTAL						253

AGGREGATE DITCH CHECKS					
STATION TO STATION			QUANTITY	VOLUME (CY)	WEIGHT (TON)
669+74.30	TO	684+00	9	100	205
684+00	TO	699+00	10	111	228
699+00	TO	714+00	6	67	137
714+00	TO	729+00	24	267	547
729+00	TO	744+00	3	33	68
744+00	TO	759+00	2	22	46
759+00	TO	774+00	1	11	23
774+00	TO	789+00	1	11	23
789+00	TO	804+00	3	33	68
804+00	TO	819+00	0	0	0
819+00	TO	834+00	26	289	592
834+00	TO	849+00	0	0	0
849+00	TO	864+00	0	0	0
864+00	TO	872+45	1	11	23
TOTAL					1959

CULVERT UNDERCUT QUANTITIES

CULVERT LOCATION	UNDERCUT DIMENSIONS* DEPTH 'h' (FT)	Width 'x' (FT)	Width 'OD' (FT)	Width 'w' (FT)	Length 'L' (FT)	TRENCH BACKFILL (CU. YDS.)	POROUS GRANULAR EMBANKMENT (TON)	ROCK FILL (TON)	GEOTECHNICAL FABRIC (SQ. YDS.)	FILTER FABRIC (SQ. YDS.)	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL (CU. YD.)	ROCK EXCAVATION (CU. YD.)
PIPES												
674+01	4	2	4.25	8.25	62.0		19.4	135.9	56.8	111.9	75.8	
683+14	2	2	5.4	9.4	64.7		23.1	69.3	67.6	96.3	45.1	
698+70						10.2						
714+38	1	2	4.3	8.25	79.0		49.5		72.4	90.0		9****
733+64.5	2	2	3.1	7.1	43.0		11.6	34.8	33.9	53.0	22.6	
743+12	3	2	4.25	8.25	97.0		30.4	151.9	88.9	153.6	88.9	
772+96.5	2	2	3.1	7.1	43.0		11.6	34.8	33.9	53.0	22.6	
864+33						9.9						
Sideroads*****						51.0						
BOXES												
705+03							**	81.2	68.8	135.4	39.6	
793+46							**	97.4	46.4	107.6	47.5	
828+50						366	**	315.7	104.0	259.2	154.0	
TOTAL						437	146	921	573***	1060***	496	9

*FOR PIPE CULVERTS, SEE PIPE CULVERT UNDERCUT DETAIL.
FOR BOX CULVERTS, SEE STAGING DETAILS.

** COST OF THE POROUS GRANULAR EMBANKMENT TO BE INCLUDED IN THE COST OF THE VARIOUS BOX CULVERT PAY ITEMS.

***GRAND TOTAL IN ANOTHER SCHEDULE

****ESTIMATED QUANTITY FOR REMOVAL OF EXISTING ROCK BELOW THE PROPOSED PIPE CULVERT, DOWNSTREAM OF THE PROPOSED JACK PIPE

*****SEE PIPE CULVERT SCHEDULE FOR SIDEROAD CULVERT LOCATIONS AND QUANTITIES

EARTHWORK				
LOCATION	EARTH EXCAVATION (CUT)	FOR INFORMATION ONLY ADJUSTED EARTH EXCAVATION (ADJ. CUT)	EMBANKMENT (FILL)	WASTE
	CY	CY	CY	CY
EARTHWORK FROM STA. 669+44 TO 872+45	107426.5	85941.2	14978.4	70962.8
STAGING EARTHWORK AT CULVERT STA. 828+50 (STA. 826+00 TO 831+00)	47.2	37.8	379.7	-341.9
TOTAL	107474	85979	15358	70621

NOTE: ADJUSTED EARTH EXCAVATION CALCULATED ASSUMING A 20% SHRINKAGE FACTOR. THE QUANTITY CALCULATED FOR WASTE IS BASED ON THE ADJUSTED EARTH EXCAVATION QUANTITY.