

SUMMARY OF EARTHWORK QUANTITIES

CONSTRUCTION PHASE	P&P SHT.	STATION TO STATION	UNCLASSIFIED EXCAVATION 202 (A)	EMBANKMENT	EMBANKMENT (+15%)	WASTE	UNCLASSIFIED BORROW 202(D)	CUMULATIVE TOTAL PER PHASE
			C.Y.	C.Y.	C.Y.	C.Y.	C.Y.	C.Y.
DETOUR	12	STA. 343+00 TO STA. 356+00 CL SURVEY	33	8033	9238	-	9205	9205
	13	STA. 356+00 TO STA. 369+00 CL SURVEY	685	4968	5713	-	5028	14233 (E3)
PHASE 2	12	STA. 351+00 TO STA. 356+00 CL SURVEY	8161	508	584	7577	-	-7577
	13	STA. 356+00 TO STA. 360+00 CL SURVEY	2040	63	73	1967	-	-9544 (E5)
PHASE 3	12	STA. 343+00 TO STA. 356+00 CL SURVEY	13184	208	240	12944	-	-12944
	13	STA. 356+00 TO STA. 369+00 CL SURVEY	8245	33	37	8208	-	-21152 (E5)
TOTALS:			32348 (E4)	-	15885	-	-	-

(E1) EMBANKMENT WILL NOT BE A PAY ITEM ON THIS PROJECT. THE COST TO CONSTRUCT THE EMBANKMENTS AS SHOWN IN THE PLANS SHALL BE COMPRISED OF THE PRICE BID FOR THE EXCAVATION AND THE BORROW PAY ITEMS. THE CONTRACTOR SHALL FIRST SELECT FILL MATERIAL FROM EXCAVATED SOILS, AS APPROVED BY THE ENGINEER AND THEN MAKE UP THE VOLUME DIFFERENCE IN APPROVED UNCLASSIFIED BORROW SECURED FROM OTHER SOURCES. THE CONTRACTOR WILL BE RESPONSIBLE FOR LOCATING A SOURCE FOR APPROVED BORROW MATERIAL. THE VOLUME SHOWN FOR EMBANKMENT INCLUDES 15% FOR COMPACTION.

(E2) EXCAVATION WILL NOT BE MEASURED IN THE FIELD BUT WILL BE PAID FOR AS THE PLAN QUANTITY OF UNCLASSIFIED EXCAVATION TIMES THE UNIT PRICE BID PER C.Y. OF EXCAVATION. SEE SECTION 109.01(b) OF THE STANDARD SPECIFICATIONS.

(E3) THIS IS THE ESTIMATED PAY QUANTITY FOR UNCLASSIFIED BORROW.

(E4) THIS IS THE ESTIMATED PAY QUANTITY FOR UNCLASSIFIED EXCAVATION.

(E5) TOTAL EST. WASTE ON THE PROJECT IS 30,689 C.Y. CONTRACTOR MAY SPREAD THE WASTE ON THE PROJECT AS APPROVED BY THE ENGINEER OR REMOVE IT FROM THE SITE.

SUMMARY OF DRAINAGE STRUCTURES (2)

STR. NO.	P&P SHEET	LOCATION DESCRIPTION	SIDEDRAIN OR CROSSLAIN	CLASS AA CONCRETE 509(D)	REINF. STEEL	15" CORR. GALV. STEEL PIPE	18" CORR. GALV. STEEL PIPE	36" CORR. GALV. STEEL PIPE	60" CORR. GALV. STEEL PIPE
				(1)	511(A)	613(B)	613(B)	613(B)	613(B)
				C.Y.	LB	L.F.	L.F.	L.F.	L.F.
T1	20	STA. 348+81.9; 19.9' RT. CL DETOUR INSTALL 40 L.F. 15" CGSP	S	-	-	42	-	-	-
T2	21	STA. 355+10.86 CL DETOUR INSTALL 87.50 L.F. 3-60" CGSP	C	-	-	-	-	-	263
T3	22	STA. 363+95.52; 4.11' LT. CL DET. INSTALL 50 L.F. 36" CGSP	C	-	-	-	-	50	-
1	13	STA. 345+06.00; 43' LT. CL SURVEY INSTALL 71 L.F. 18" CGSP	S	-	-	-	71	-	-
2	14	STA. 363+91.6; 36.6' LT. CL SURVEY EXT. EXIST 8'X3' RCB	C	23.25	3380	-	-	-	-
TOTALS				23.25	3380	42	71	50	263

(1) COST FOR UNCL. EXCAV. AND STR. EXCAV. SHALL BE INCLUDED IN THE UNIT PRICE BID PER C.Y. FOR CLASS AA CONCRETE.

(2) FOR ALL PIPE CONDUITS: TRENCH EXCAVATION AND BACKFILL WILL NOT BE PAY ITEMS ON THIS PROJECT. COSTS FOR TRENCH EXCAVATION AND BACKFILL IN ACCORDANCE WITH THE STANDARDS AND SPECIFICATIONS SHALL BE INCLUDED IN THE UNIT PRICE BID PER L.F. FOR THE PIPE.

SUMMARY OF DRIVEWAYS

P&P SHT.	CL Station	TYPE	RADII	LENGTH	WIDTH	TACK COAT 407(B)	PRIME COAT 408	SUPERPAVE TYPE S3 (PG 64-22 OK) 411(B)	SUPERPAVE TYPE S4 (PG 64-22 OK) 411(C)
			FT.	FT.	FT.	GAL.	GAL.	TONS	TONS
13	STA. 345+06 LT. CL SURVEY	ASPHALT PRIVATE DRIVE	15	63	12	15	36	29.0	11.0
20	STA. 349+03 RT. CL DET.	TEMP ASPHALT DRIVE	15	23	12	6	15	12.0	4.4
TOTALS:			-	-	-	21	51	41.0	15.4

(1) EST. @ 0.35 GAL./S.Y. (2) EST. @ 0.15 GAL./S.Y.

SUMMARY OF REMOVALS

DETAIL SHEET NO. 16	NON-PAY ITEMS (R1)										PAY ITEMS				
	(R3) FENCE	8'X3' HDWLL. FOR EXTENSION	CONC. CHANNEL PROT.	(R4) SIGNS (NOT TO BE RESET)	(R5) 12" RCP	(R5) 15" CMP	(R5) 24" CMP	(R5) 36" CMP	(R5) 60" CMP	SAW PAV'T.	RIPRAP	(R6) REMOVAL OF GUARDRAIL	(R2) REMOVAL OF ASPHALT PAVEMENT 619(B)	REMOVE & RESET MAILBOX 629(E)	REMOVAL OF STRUCTURES AND OBSTRUCTIONS 619(A)
		L.F.	EA.	S.Y.	EA.	L.F.	L.F.	L.F.	L.F.	L.F.	TON	L.F.	S.Y.	EA.	EA.
STA. 339+28 TO 350+50		756	-	-	-	1	-	-	-	-	-	-	1612	1	1
STA. 350+50 TO 362+00		788	-	127	-	-	-	-	3	-	350	928	5281	-	-
STA. 362+00 TO 369+50		-	1	-	-	-	-	1	-	-	-	-	978	-	-
TOTALS:		1544	1	127	-	1	-	1	3	88	350	928	7871	1	1

(R1) NOT MEASURED FOR PAYMENT BUT TO BE INCLUDED IN THE LUMP SUM ITEM "REMOVAL OF STRUCTURES AND OBSTRUCTIONS". PROVIDED FOR INFORMATION ONLY.
 (R2) INCL. 5877 S.Y. DETOUR PAV'T. CONSTR. ON THIS PROJECT.
 (R3) REMOVAL OF THE PIPE INCLUDES REMOVAL OF ANY HDWLL. OR END TREATMENT.
 (R4) SEE SHT. 5 FOR SUMMARY OF EXISTING SIGNS.
 (R5) REMOVAL OF TEMPORARY STRUCTURES.
 (R6) GUARDRAIL TO BECOME PROPERTY OF THE STATE FOR COUNTY USE

SUMMARY OF SURFACING QUANTITIES

P&P SHT.	STATION TO STATION	TYPE 'A' AGGREGATE BASE 303(A)	FLY ASH 307(A)	STABILIZED SUBGRADE 307(K)	RS3801 SEPARATOR FABRIC 325	TRAFF. BOUND SURF COURSE TYPE E 402(E)	TACK COAT 407(B)	PRIME COAT 408	SUPERPAVE TYPE S3 (PG 64-22 OK) 411 (B)	SUPERPAVE TYPE S3 (PG 70-28 OK) 411 (B)	SUPERPAVE TYPE S4 (PG 64-22 OK) 411 (C)	SUPERPAVE TYPE S4 (PG 70-28 OK) 411 (C)	
		TON	TON	S.Y.	S.Y.	TON	GAL.	GAL.	TON	TON	TON	TON	
13	STA. 339+28 TO 353+00	-	-	-	-	-	-	-	-	-	-	342.0	409.8
13	STA. 353+00 TO 356+00	363.1	91.8	1700.3	1700.0	120.0	1459.8	378.1 (S5)	365.3	137.8	-	417.0	504.0
14	STA. 356+00 TO 357+00	121.0	30.6	566.8	566.7	40.0	1072.4	126.0 (S5)	121.8	45.9	-	336.7	407.0
14	STA. 357+00 TO 369+50	-	-	-	-	-	-	-	-	-	-	318.5	373.3
15	STA. 342+94.36 TO 356+00 DETOUR	-	136.1	2519.8	-	-	488.4	1157.4 (S2)	911.7	-	-	357.3	-
16	STA. 356+00 TO 367+34.21 DETOUR	-	116.6	2159.7	-	-	418.8	992.5 (S2)	781.9	-	-	306.5	-
TOTALS:		484.2	375.1	6946.6	2266.7	160.0	3439.4	2654.0	2180.7	183.7	-	2078.0	1694.1

(S1) ESTIMATED AT D.15 GAL./S.Y. (S2) ESTIMATED AT 15% DRY WEIGHT OF SOIL (12D PCF), OR 108 LBS./S.Y. (S3) ESTIMATED AT 0.25 GAL./S.Y. OF AGG. BASE
 (S4) ESTIMATED AT 0.35 GAL./S.Y. OF SUBGRADE (S5) ESTIMATED AT 160 PCF

SUMMARY OF PAVED DITCHES

P&P SHT.	STATION TO STATION (CL SURVEY U.N.O.)	LEFT OR RIGHT	DESCRIPTION (ODOT STD. DC-2 U.N.O.) DES. 2A PAV. DT.	DESIGN NO.	BOTTOM WIDTH	LENGTH	NO. CURTAIN WALLS	CLASS 'C' CONCRETE 509 (E)
					FT.	FT.		
13	STA. 351+00 TO STA. 354+71	RT.	374 L.F. - 6' BOTT.	2A	6	374	5	57.9
13	STA. 355+79 TO 356+00	RT.	21.5 L.F. - 6' BOTT.	2A	6	21.5	2	3.7
14	STA. 356+00 TO 359+00	RT.	304 L.F. - 6' BOTT.	2A	6	304	5	47.3
TOTALS:		-	-	-	-	-	-	108.8

SUMMARY OF FENCE

P&P SHT.	STATION TO STATION (CL SURVEY U.N.O.)	LT. OR RT.	FENCE STYLE SW/VE (6 BARRED WIRE) 624 (C)
			L.F.
13	STA. 351+00 TO STA. 354+77 CL SURVEY	RT.	395
TOTALS:			395

SUMMARY OF TEMPORARY EROSION CONTROL

DET. SHT.	PHASE	TEMPORARY SILT FENCE 221(C)	TEMPORARY FIBER LOG 221(K)	TEMPORARY ROCK FILTER DAM TYPE 3 221(G)	TEMPORARY ROCK FILTER DAM TYPE 4 221(G)	VEGETATIVE MULCHING 233(A)
		L.F.	L.F.	C.Y.	C.Y.	AC.
10	1	2547	154	9.4	1.0	3.17
11	2	-	154	28.8	5.6	1.71
12	3	-	280	12.6	5.6	3.65
(T1)		1000	100	-	-	-
TOTALS:		3547	688	50.8	12.2	8.53

(T1) ESTIMATED ADDITIONAL QUANTITY TO BE USED ONLY AS APPROVED BY THE ENGINEER.

SUMMARY OF EROSION CONTROL

P&P SHT.	LOCATION	SOLID SLAB SODDING 230 (A)	(C1) WATERING 230 (E)	(C1) FERTILIZING (10-20-10) 234 (A)	(C2) FERTILIZING (0-46-0) 234 (A)	(C3) MOWING 241
		S.Y.	K. GAL.	LBS.	LBS.	AC.
12	STA. 343+00 TO STA. 356+00 LEFT	10400	416	2080	322	5.6
12	STA. 351+00 TO STA. 356+00 RIGHT	4808	192	962	149	2.9
13	STA. 356+00 TO STA. 369+00 LEFT	9372	375	1874	290	5.6
13	STA. 356+00 TO STA. 359+00 RIGHT	2836	113	567	88	1.6
TOTALS:		27415	1097	5483	850	15.8

(C1) NOT MEASURED FOR PAYMENT. COST INCL. IN PRICE FOR SOLID SLAB SODDING. (C2) ESTIMATED AT MOWING THE ENTIRE ROW TWO TIMES.
 (C3) NOT MEASURED FOR PAYMENT. COST INCL. IN PRICE FOR SALVAGED TOPSOIL.

DESIGN			
DRAWN			
CHECKED			
APPROVED			
SQUAD	G/K ENGR.	JOB PIECE NO.	28941(04) SHEET NO. 7

SUMMARY SHEET