

CALCULATIONS AND SUB-SUMMARIES

PAVEMENT REMOVED				202
STATION TO STATION	LENGTH FEET	AVE. WIDTH FEET	PAVEMENT AREA SQ. YDS.	APPROACH SLAB REMOVED SQ. YDS.
STA. 21+45.80 TO STA. 21+60.80	15.00	24.00	39.60	39.6
STA. 22+59.88 TO STA. 22+74.88	15.00	24.00	39.30	39.3
TOTALS				78.9

DRIVEWAY					203	203	304	404	408	
REF.	LOCATION	LENGTH LIN. FT.	WIDTH LIN. FT.	DRIVEWAY AREA SQ. FT.	6" EXCAVATION CU. YD.	8" EXCAVATION CU. YD.	6" AGGREGATE BASE CU. YD.	2" ASPHALT CONCRETE CU. YD.	BITUMINOUS PRIME COAT, 0.4 GALLON PER SQ. YD. GALLON	
DR-1	STA. 19+30	69.2	9.0	701.0	RT.	17.3	13.0	4.4	31.2	
DR-2	STA. 19+94	53.7	11.0	744.1	RT.	13.8	13.8			
DR-3	STA. 20+34	50.9	10.0	558.8	RT.		13.8	3.5	24.8	
DR-4	STA. 21+07	33.2	12.0	446.4	LT.	8.3		8.3		
DR-5	STA. 23+05	21.5	12.0	294.3	LT.	5.5		5.5		
TOTALS						27.6	31.1	51	7.9	56
						59	51	8	56	

PAVEMENT				203	254	301	304	310	402	404	404	407	611
STATION TO STATION	LENGTH FEET	AVE. WIDTH FEET	PAVEMENT AREA SQ. YDS.	SUBGRADE COMPACTION SQ. YDS.	PAVEMENT PLANING, BITUMINOUS AGGREGATE BASE, AC-20 SQ. YDS.	AGGREGATE BASE CU. YDS.	SUBBASE, TYPE I, GRADING A CU. YDS.	ASPHALT CONCRETE, AC-20 CU. YDS.	ASPHALT CONCRETE, AC-20 CU. YDS.	ASPHALT CONCRETE, AC-20 (UNDER GUARDRAILS) CU. YDS.	TACK COAT GAL.	REINFORCED CONCRETE APPROACH SLAB, (T=12) SQ. YDS.	
STA. 19+77.50 TO STA. 20+00.00	22.50	1.63	4.10										
STA. 19+77.50 TO STA. 20+00.00	22.50	1.63	4.10										
STA. 20+00.00 TO STA. 21+35.49	135.50	25.00	376.40	376.4									
STA. 20+00.00 TO STA. 21+35.49	135.50	32.00	481.80		59.8			23.2	16.6		37.4		
STA. 20+00.00 TO STA. 21+35.49	135.50	3.63	54.60				12.2						
STA. 20+00.00 TO STA. 21+35.49	135.50	3.96	59.60				13.3						
STA. 21+34.49 TO STA. 21+49.58	15.00	40.00	66.67	66.7			16.8					67.1	
STA. 22+71.26 TO STA. 22+86.35	15.00	40.00	66.67	66.7			16.8					67.1	
STA. 22+86.35 TO STA. 23+86.35	101.00	25.00	280.60		280.6						27.8		
STA. 22+86.35 TO STA. 23+86.35	101.00	32.00	359.10			44.5		17.3	12.3				
STA. 22+86.35 TO STA. 23+86.35	101.00	2.51	28.20				6.2						
STA. 22+86.35 TO STA. 23+86.35	101.00	3.48	39.10				8.6						
STA. 23+86.35 TO STA. 24+23.11	36.76	2.43	9.90				2.2	0.5	0.3				
STA. 23+86.35 TO STA. 24+23.11	36.76	2.43	9.90				2.2	0.5	0.3				
STA. 20+47.13, 18' RT. TO STA. 21+50.58, 18' RT.	95.00	2.00	21.11							0.7			
STA. 21+16.76, 30' LT. TO STA. 21+50.58, 22' LT.	20.00	2.00	4.44							0.2			
STA. 22+61.13, 18' RT. TO STA. 23+92.00, 17' RT.	110.00	2.00	24.44							0.8			
STA. 22+61.13, 22' LT. TO STA. 22+95.28, 30' LT.	10.00	2.00	2.22							0.1			
STA. 23+15.20, 27' LT. TO STA. 24+03.75, 23' LT.	90.00	2.00	20.00							0.7			
TOTALS				133.4	657.0	107.7	46.5	33.6	41.9	29.7	2.5	65.2	134.2

DRAINAGE				601
REF.	LOCATION	SIDE	AREA SQ. FT.	ROCK CHANNEL PROTECTION, TYPE A GROUTED CU. YD.
D-1	STA. 21+50.58 TO STA. 21+65.58	LT./RT.	1736.4	192.9
D-2	STA. 22+54.26 TO STA. 22+70.26	LT./RT.	1841.4	204.6
TOTALS				397.5

* AREA FROM COMPUTER CALCULATION

ROADWAY											
REF.	LOCATION	LIN. FT.	202	202	202	604	606	606	606	606	
			GUARDRAIL REMOVED	ANCHOR ASSEMBLY REMOVED	BRIDGE TERMINAL ASSEMBLY REMOVED	MONUMENT BOX ADJUSTED TO GRADE	GUARDRAIL, TYPE 5	GUARDRAIL POST, 9 FEET	ANCHOR ASSEMBLY, TYPE E	ANCHOR ASSEMBLY, TYPE T	BRIDGE TERMINAL ASSEMBLY, TYPE 4
R-1	STA. 20+47.13, 18' RT. TO STA. 21+50.58, 18' RT.	75.0	1	1			81.25	23		1	1
R-2	STA. 21+16.76, 30' LT. TO STA. 21+50.58, 22' LT.	25.0	1	1			12.5	10		1	1
R-3	STA. 22+61.13, 18' RT. TO STA. 23+92.00, 17' RT.	87.5	1	1			75.0	23	1	1	1
R-4	STA. 22+61.13, 22' LT. TO STA. 22+95.28, 30' LT.		1	1				8		1	1
R-5	STA. 23+15.20, 27' LT. TO STA. 24+03.75, 23' LT.	50.0	1				56.25	16	1	1	
R-6	STA. 23+21.46 ON CENTER LINE					1					
TOTALS			237.5	5	4	1	225.0	80	2	4	4

AGGREGATE DRAINS		605
REF.	LOCATION	LIN. FT.
UD-1	STA. 19+75.00, 18' LT TO 28' LT.	10.0
UD-2	STA. 20+00.00, 18' LT TO 28' LT.	10.0
UD-3	STA. 20+25.00, 18' LT TO 28' LT.	10.0
UD-4	STA. 20+50.00, 18' LT TO 28' LT.	10.0
UD-5	STA. 25+75.00, 18' LT TO 28' LT.	10.0
UD-6	STA. 20+96.00, 18' LT TO 28' LT.	10.0
UD-7	STA. 21+25.00, 18' LT TO 28' LT.	10.0
UD-8	STA. 21+50.00, 18' LT. TO 24' LT.	6.0
UD-9	STA. 21+70.26, 18' LT TO 24' LT.	6.0
UD-10	STA. 23+00.00, 18' LT TO 28' LT.	10.0
UD-11	STA. 23+25.00, 18' LT TO 28' LT.	10.0
UD-12	STA. 23+50.00, 18' LT TO 28' LT.	10.0
UD-13	STA. 23+75.00, 18' LT TO 28' LT.	10.0
UD-14	STA. 24+00.00, 18' LT TO 28' LT.	10.0
UD-15	STA. 24+24.00, 18' LT TO 28' LT.	10.0
TOTALS		142.0

ALL QUANTITIES HAVE BEEN INCLUDED IN THE GENERAL SUMMARY.

ITEM 203 - LINEAR GRADING
 FROM STA. 19+77.50 TO STA. 21+50.58 = 173.08 LIN. FT.
 FROM STA. 22+70.26 TO STA. 24+23.11 = 152.85 LIN. FT.
 TOTAL = (173.08 + 152.85) x 2 / 5280 = 0.12 MILE

ITEM 659 - WATER
 120 GALLONS/1,000 S.F. OF PERMANENT SEEDING AND MULCHING
 AREA FROM ITEM 659 - SEEDING AND MULCHING = 3496.3 SQ. YDS.
 3496.3 x 9 / 1,000 x 240 GALLONS + 1,000 = 7.55 M. GAL.
 = 8 M. GAL. (TO GENERAL NOTES)

ITEM 659 - COMMERCIAL FERTILIZER
 20 LBS. / 1,000 S.F. OF PERMANENT SEEDING AND MULCHING
 AREA FROM ITEM 659 - SEEDING AND MULCHING = 3496.3 SQ. YDS.
 3496.3 x 9 / 1,000 x 20 LBS. + 2,000 LBS./TON = 0.31 TONS

ITEM 659 - AGRICULTURAL LIMING
 100 LBS. / 1,000 S.F. OF PERMANENT SEEDING AND MULCHING
 AREA FROM ITEM 659 - SEEDING AND MULCHING = 3496.3 SQ. YDS.
 3496.3 x 9 / 1,000 x 100 LBS. + 2,000 LBS./TON = 1.57 TONS

ITEM 203 - EXCAVATION
 EXCAVATION BETWEEN EXISTING AND PROPOSED ABUTMENTS AND IN FRONT OF EXISTING ABUTMENTS = 391 CU. YD.