

MICROFILMED  
MAY 8 1982

# GENERAL SUMMARY

QUANTITY CALCULATIONS  
 BY C.E.R. DATE 9-85  
 CHKD. J.M. DATE 9-85  
 LAKE COUNTY  
 WOODRUFF, INC.  
 LAK-20-17.14

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86

ITEM	SHEET NO.																ITEM	TOTAL QUANT	UNIT	DESCRIPTION	
	8	9	10	12	16	17	29	32	33	40											
201		LUMP																201	LUMP	CLEARING AND GRUBBING	
202			200															202	200	SQ. YDS.	BRICK PAVEMENT REMOVED, AS PER PLAN
202				4092														202	4436	SQ. YDS.	PAVEMENT REMOVED
202			320															202	320	LIN. FT.	CURB REMOVED
202			47															202	47	SQ. YDS.	CONCRETE MEDIAN REMOVED
202			570															202	570	SQ. YDS.	WEARING COURSE REMOVED
202					400													202	400	LIN. FT.	GUARD RAIL REMOVED
202																		202	2	EACH	MANHOLE REMOVED
202																		202	2	EACH	CATCH BASIN REMOVED
202																		202	7	EACH	CATCH BASIN REMOVED
202																		202	590	LIN. FT.	PIPE REMOVED, 24" AND UNDER
203				15311														203	15,311	CU. YDS.	EXCAVATION NOT INCLUDING EMBANKMENT CONSTRUCTION
203				26589														203	26,589	CU. YDS.	EMBANKMENT
203				4810														203	4,810	CU. YDS.	EXCAVATION AS PER PLAN
203				1887														203	1,887	CU. YDS.	EMBANKMENT AS PER PLAN "A"
203				5555														203	5,555	CU. YDS.	EMBANKMENT AS PER PLAN "B"
203				1960														203	1,960	CU. YDS.	EMBANKMENT, AS PER PLAN
203				6054														203	6,054	SQ. YDS.	SUBGRADE COMPACTION
404	100																	404	100	CU. YDS.	BITUMINOUS CONCRETE FOR MAINTAINING TRAFFIC
410	400																	410	400	CU. YDS.	TRAFFIC COMPACTED SURFACE, TYPE A OR B
604					2	5		4										604	11	EACH	MONUMENT ASSEMBLIES, Standard
606												43.75						606	43.75	LIN. FT.	GUARD RAIL, TYPE 4
606					518.75	350												606	868.75	LIN. FT.	GUARD RAIL, TYPE 5
606					4	2												606	6	EACH	BRIDGE TERMINAL ASSEMBLY, STANDARD TYPE "A"
606																		606	1	EACH	BRIDGE TERMINAL ASSEMBLY, STANDARD TYPE "A" Mod. as per plan
606					2	2												606	4	EACH	ANCHOR ASSEMBLY, STANDARD TYPE "A"
606																		606	1	EACH	ANCHOR ASSEMBLY, STANDARD TYPE "B"
606					2	1												606	3	EACH	ANCHOR ASSEMBLY, STANDARD TYPE "T"
607													2					606	2	EACH	GUARD POST, AS PER PLAN <i>See Sht. 32</i>
607																		607	299	LIN. FT.	FENCE, TYPE CL, AS PER PLAN <i>See Sht. 32</i>
607																		607	1	EACH	24' GATE, AS PER PLAN <i>See Sht. 32</i>
608			630															608	630	SQ. FT.	4" CONCRETE WALK
616	200																	616	200	M. GALS.	WATER
616	34																	616	34	TONS	CALCIUM CHLORIDE
<b>EROSION CONTROL</b>																					
207		3100		2881														207	5981	SQ. YDS.	TEMPORARY SEEDING AND MULCHING
207		72																207	72	EACH	STRAW OR HAY BALES
207		110																207	110	LIN. FT.	TEMPORARY SLOPE DRAINS
207		550																207	550	CU. YDS.	TEMPORARY BENCHES, DIKES, DAMS AND SEDIMENT BASINS
207		110																207	110	LIN. FT.	FILTER FABRIC FENCE
601						6							14					601	20	SQ. YDS.	RIP-RAP USING 6" REINFORCED CONCRETE SLAB
601						6												601	6	CU. YDS.	ROCK CHANNEL PROTECTION TYPE "A" WITH FILTER
601													10					601	10	CU. YDS.	ROCK CHANNEL PROTECTION TYPE "B" WITH FILTER
601		4																601	4	CU. YDS.	ROCK CHANNEL PROTECTION TYPE "C" WITHOUT FILTER
659		68																659	68	M. SQ. FT.	MOWING
659		23																659	23	M. GAL.	WATER
659				21765														659	21,765	SQ. YDS.	SEEDING AND MULCHING
659		760																659	760	SQ. YDS.	REPAIR SEEDING AND MULCHING
659													11.75					659	11.75	TONS	AGRICULTURAL LIMING
659		0.14											2.35					659	2.49	TON	COMMERCIAL FERTILIZER
670				1141														670	1141	SQ. YDS.	SLOPE EROSION PROTECTION
670				314														670	314	SQ. YDS.	DITCH EROSION PROTECTION

SCALE  
 MADE C.E.R. DATE 9-85  
 TRCD. M.A.G. DATE 9-85  
 CKD. J.M. DATE 9-85

**WOODRUFF, INC.**  
 ARCHITECTS • ENGINEERS & PLANNERS  
 23875 COMMERCE PARK RD. 216464-4600  
 CLEVELAND, OHIO 44122

U.S. 20 OVER GRAND RIVER