

SUMMARY OF QUANTITIES

OLD MALDENIA CEMETERY ROAD
LICKING & HOPEWELL TOWNSHIPS.
MUSKINGUM COUNTY

7
20

CLEARING AND GRUBBING		
STATION	TREES DIAMETER 8" OR OVER (NUMBER)	BRUSHY AND WOODED AREAS (ACRES)
FROM TO		
0+00 28+00	93	
28+00 57+00	110	
57+00 75+30	210	
0+00 75+30		3 ±
Total	413	3 ±

DRIVES AND APPROACHES						
REF NO.	STATION	EXCAVATION CU. YDS.	EMBANKMENT CU. YDS.	12" PIPE LIN. FT.	18" PIPE LIN. FT.	PAVEMENT SQ. YDS.
1-A	16+16 L+	0	58	28		58
2-A	23+63 L+	0	6			58
3-A	28+00 L+	71	614		24	199
4-A	30+50 R+	1621	0	48		178
5-A	50+31 L+	0	1662	16		157
Total		1692	2360	92	24	650

GUARD RAIL POST				
STATION	SIDE	LIN. FT.	NO. POST REQUIRED	
FROM TO				
13+00 16+00	Right	300	39	
15+00 16+00	Left	100	14	
25+00 28+00	Right	300	39	
27+00 28+50	Left	150	20	
35+00 37+50	Left	250	32	
47+00 51+50	Right	450	57	
48+50 51+50	Left	300	39	
56+00 57+50	Right	150	20	
60+50 64+00	Right	350	45	
62+50 64+00	Left	150	20	
Total		2,500	325	

STRUCTURES														
REF NO.	STATION	TYPE	NEW WORK						REMOVAL OF EXISTING STRUCTURES					
			SIZE AND LENGTH				SKEW ANGLE	EXCAVATION		CONCRETE CLASS "B" CU.YDS.	RIPRAP CU.YDS.	TYPE	SIZE	
			12"	15"	18"	48"		STRUCTURE UNCLASS. CU.YDS.	CHANNEL UNCLASS. CU.YDS.					
1-S	3+36	Pipe Reinf. Conc.	30'						11			2	Wood box culvert	10"x10"x13'
2-S	13+70	Pipe Reinf. Conc.			40'				18			2		
3-S	22+15												C.I. Pipe culvert	12" dia. x 14'
4-S	22+25	Pipe Reinf. Conc.		32'					13			2		
5-S	23+60	Pipe Reinf. Conc.			28'				13			2		
6-S	26+39	Pipe Reinf. Conc.				72'	30° LF	100	300	3	7			
7-S	26+60												Wood bridge-Store Abt. 22CY Masonry	
8-S	36+45												Galvanized hot water tank	10" dia. x 14'
9-S	36+50	Pipe Reinf. Conc.	40'						14			2		
10-S	39+75	Pipe Reinf. Conc.			30'		20° RF	14				2		
11-S	59+40	Pipe Reinf. Conc.	30'				15° LF	11				2		
12-S	63+90	Pipe Reinf. Conc.			46'		30° LF	21				2		
13-S	67+00	Pipe Reinf. Conc.		32'			30° LF	13				2		
14-S	74+00	Pipe Reinf. Conc.			36'		30° LF	16				2		
15-S	75+05	Pipe Reinf. Conc.	32'					12				2		
Total			132'	64'	180'	72'		256	300	3	29			

EXCAVATION AND EMBANKMENT					
STATION	EXCAVATION	EMBANKMENT	EMB.+ 20%	WASTE	
FROM TO	CU. YDS.	CU. YDS.	CU. YDS.	CU. YDS.	CU. YDS.
0+00 15+30	1,707	1,422	1,707		
15+30 31+29	8,090	6,743	8,090		
31+29 49+32	6,664	5,554	6,664		
49+32 50+56	4,952	4,129	4,952		
50+56 65+28	2,627	2,190	2,627		
65+28 67+10	115	95	115		
67+10 75+30.72	1,144	507	609	536	
Total	25,299	20,641	24,763	536	

Note: Excavation and embankment for drives and approaches included above.

DERIVATION OF PAVEMENT QUANTITIES
Net length of pavement = 7,530.72 L.F.
Calculations $7,530.72 \times 1.8 = 15,061.4$ Sq.Yds.

ADDITIONS
Private driveways and approaches = 650.0 Sq.Yds.
Total = 15,711.4 Sq.Yds.

GENERAL SUMMARY

ROADWAY
Road excavation (unclassified) 25,299 Cu.Yds.
Clearing and grubbing
Removal of trees and stumps 413 Each
Brushy and wooded areas 3 Acres ±
12" pipe for driveways 92 Lin. Ft.
18" pipe for driveways 24 Lin. Ft.
Water 106 M Gal.
Guard rail post 325 Each

PAVEMENT
6" compacted gravel or crushed stone 15,061.4 Sq.Yds.
3" compacted gravel or crushed stone 650.0 Sq.Yds.

STRUCTURES
Structure excavation (unclassified) 256 Cu.Yds.
Channel excavation 300 Cu.Yds.
Riprap 15" thick 29 Cu.Yds.
Removal of existing masonry 22 Cu.Yds.
12" pipe for roadway culverts 132 Lin. Ft.
15" pipe for roadway culverts 64 Lin. Ft.
18" pipe for roadway culverts 180 Lin. Ft.
48" pipe for roadway culverts 72 Lin. Ft.
Concrete for pipe cradle 3 Cu.Yds.