

MUSKINGUM COUNTY
TOWNSHIP ROAD No 59
COUNTY ROAD No 97 (Pt)

SUMMARY OF PIPE CULVERTS																
No.	Station	Pres. Culvert		Excav. Struc. CY	Channel C.Y.	Pipe Lin. Ft.				Relay Pipe Lin. Ft.				Riprap 12" Thick Sq Yds.	Remarks	
		Size	Type			10"	12"	15"	30"	8"	10"	12"	30"			
1-C	0+14	10" x 24'	C.M.P.	3	2	14						24			Take up, clean and relay with Ext.	
2-C	3+08	10" x 20'	"	5	3	16						20			" " " " " " "	
3-C	10+00	12" x 20'	"	3	3		16								Clean out and Ext. on Rt. and Lt.	
4-C	13+00	30" x 24'	"	26				20				24			Take up, clean and relay with Ext.	
5-C	18+00	12" x 24'	"	1			14							1	Clean out and Ext. on Rt. Place riprap as shown.	
6-C	25+00	12" x 20'	"												Remove clean and relay existing 12" x 20' C.M.P. in Drive left of Sta. 26+04. See Side Roads & Drives Table this Sheet	
7-C	26+17	12" x 24'	"	2	6		14								Clean out and Ext. on Rt. and Lt.	
8-C	30+31	12" x 24'	"	6	6		6					24			Take up, clean and relay with Ext.	
9-C	33+70	12" x 18'	"	4	8		24								Clean out and Ext. on Rt. and Lt.	
10-C	40+00	10" x 22'	"	3	2	22									" " " " " " "	
11-C	45+00	15" x 24'	"	1				16							Clean out and Ext. on Rt. and Lt.	
12-C	50+00	15" x 24'	"	2	2			20							" " " " " " "	
13-C	53+02	10" x 20'	"	2		20						20			Take up, clean and relay with Ext.	
14-C	77+03	10" x 16'	V.S.R.	7	10		40								Remove Pres. V.S.R. Build new Pipe Culv	
15-C	82+40	10" x 14'	"	7	5		40								" " " " " " "	
16-C	91+22	10" x 14'	"	9	4		44								" " " " " " "	
17-C	117+21	10" x 24'	C.M.P.	5	2	20						24			Take up, clean and relay with Ext.	
18-C	127+07	10" x 24'	"	4	7	14						24			" " " " " " "	
19-C	138+50	10" x 24'	"	2	10	10									Clean out and Ext. on Lt.	
20-C	144+05	8" x 24'	"	4	3	30									Build New 10" x 30" Pipe Culv. Remove existing 8" x 24' C.M.P. and relay in Drive Lt. Sta. 144+80. See Drive Table this Sheet	
21-C	150+00			4	1	32									Build new Pipe culvert	
22-C	153+00			6	8		38								" " " " " " "	
23-C	161+52	12" x 24'	C.M.P.	5	4	12						24			Take up, clean and relay with Ext.	
Totals				111	86	173	243	36	20		112	48	24	1		

SIDE ROADS-DRIVES						
No.	Station	Side	Pipe - L.Ft.	T.B. Mat.	C.M.P. Relay	8" IR
			10"	12"	Cu.Yds.	
1-D	21+25	Rt.			1	
2-D	26+0	Lt.			1	20
3-D	32+50	Rt.			1	
4-D	56+80	Rt.	16		1	
5-D	56+80	Lt.			1	
6-D	57+75	Rt.			2	
7-D	65+00	Lt.			5	
8-D	67+10	Rt.			2	
9-D	74+00	Lt.			5	
10-D	87+00	Rt.		16	1	
11-D	88+10	Rt.			3	
12-D	88+50	Lt.		16	3	
13-D	88+60	Rt.			3	
14-D	102+00	Rt.			3	
15-D	117+30	Lt.	16		3	
16-D	128+50	Rt.			2	
17-D	128+00	Lt.		30	5	
18-D	141+80	Lt.			2	
19-D	149+80	Lt.			2	24
20-D	143+40	Rt.			2	
21-D	150+50	Rt.		16	2	
22-D	155+80	Lt.	24		3	
23-D	157+00	Lt.		30	5	
24-D	157+10	Rt.		16	2	
25-D	158+80	Rt.		16	1	
Totals			56	140	61	24 20

EXCAVATION & EMBANKMENT						
From	To	Exc.	Emb	+15%	Waste	Borrow
0+00	16+48.29	1626	1414	1626		
16+48.29	42+00	3017	2601	2991	26	
42+00	60+26.47	2253	1611	1853	400	
60+26.47	90+00	4165	3690	4244		79
90+00	102+54.39	1772	1541	1772		
102+54.39	114+35.11	1006	875	1006		
114+35.11	139+00	2529	1829	2103	426	
139+00	156+00	1067	740	851	216	
156+00	164+28.38	1211	368	423	788	
164+28.38	187+00	73	73	73		
187+00	200+00	131	242	242		
200+00	192+00	345	306	312		
192+00	187+00	300	244	244		
187+00	187+00	216	320	320		
Totals		18646	14680	16869	1856	79

Calculations
 Begin Project Sta. 0+00
 End Project Sta. 164+28.38
 Net Length 16428.38 Lin. Ft.
 3.111 Miles
 No Additions or Deductions

T-110 Surface Course
 $16428.38 \times 14 \times 0.5 \div 27 = 4259 \text{ Cu. Yds.}$

ROADWAY			
E-201	Roadway Excavation (uncol)	18646	Cu. Yds.
I-1	10" Pipe for driveways	56	Lin. Ft.
I-1	12" " "	140	" "
I-17	Aggregate for T.B. Side Approaches	61	Cu. Yds.
I-6	8" Corrugated Metal Pipe relaid for Driveways	24	Lin. Ft.
I-6	12" Corrugated Metal Pipe relaid for Driveways	20	Lin. Ft.

PAVEMENT
T-110 Traffic Compacted Surface Course 4259 Cu. Yds.

STRUCTURES 20 SPAN & UNDER			Cu. Yds.
E-2	Structure Excavation (uncl)		171
S-27	10" Pipe roadway culverts		178
S-27	12" " " "		248
S-27	15" " " "		36
S-27	30" " " "		20
I-6	Take up and Relay 10" Corrugated Metal Pipe for Roadway Culvert		112
I-6	" " " 12" " " " "		48
I-6	" " " 30" " " " "		24
E-3	Channel Excavation		86
I-10	12" Hand Laid Riprap		1
			Sq. Yd.