

# SUMMARY OF QUANTITIES

No	STATION	TYPE	SIZE	LENGTH	STRUCTURES UNDER 20' SPAN					REMARKS		
					EXCAV. CU. YDS.	CONCRETE CU. YDS.		REINF. STEEL LBS.	VITRIFIED PIPE			
						1-5"	1-8"		15" LIN. FT.		12" LIN. FT.	12" LIN. FT.
1	6+0	V.S.P. (enc)	15"	38	16.2	1.15	4.75	35	48		Build 15" x 38" V.S.P. culv. 2 l.Bs. 10'-15" on L	
2	6+50	"	12"	34	7.4		3.52			34	" 12" x 34" V.S.P. culv. 2 l.Bs.	
3	10+0	"	12"	34	10.0		3.52			34	"	
4	13+20	"	12"	34	7.7		3.52			34	"	
5	31+0	"	12"	34	13.7		3.52			34	"	
6	34+50	"	12"	34	10.6		3.52			34	"	
7	37+50	"	12"	34	15.6		3.52			34	"	
8	40+75	"	12"	34	14.9		3.52			34	"	
9	41+50	"	12"	34	14.4		3.52			34	"	
10	46+0	"	12"	34	12.7		3.52			34	"	
11	49+50	"	12"	34	9.5		3.52			34	"	
12	73+50	"	12"	80	24.0	2.00	8.21	65		80	" 12" x 80" V.S.P. culv. 2 l.Bs. 2 hws.	
13	101+50	V.S.P. sideroad	12"	54	11.0	1.30	5.65	33		54	" 12" x 54" V.S.P. sideroad	
14	101+75	V.S.P. (enc)	12"	56	14.0	1.00	5.81	33		56	" 12" x 56" V.S.P. culv. 1 l.B. on R h/w on L	
15	106+0	"	12"	40	10.0		4.25			40	" 12" x 40" V.S.P. culv. 1 l.B. on R	
16	127+11	V.S.P. (enc) sideroad	12"	50	16.0	1.00	5.33	33		50	" 12" x 50" V.S.P. enc. sideroad	
17	155+25	corr. iron pipe	8"	38	4.0	0.70				38	" 8" x 38" corr. iron pipe culv. 1 l.B. on L h/w on R	
18	154+88	"	8"	75	6.0	0.70				75	" 8" x 75" " " " 1 h/w.	
19	161+19	V.S.P. (enc)	12"	32	9.0		3.3			32	" 12" x 32" V.S.P. culv. Tunnel under Center St. p.m.	
20	162+0	"	12"	34	9.0		3.53			34	" 12" x 34" " " " 2 l.Bs.	
21	183+20	Conc. box	5' x 3'	66	55.0	38.3		2033			" 5' x 3' conc. box. clean ditch 125' to L	
22	189+57	headwalls			2.0	1.76		57			" 2 hws. on present 10' corr. pipes	
23	192+05	"			2.0	2.46		75			" 18"	
24	211+65	V.S.P. (enc)	12"	44	9.0	2.00	4.54	65		44	" 12" x 44" V.S.P. culv. of Remove 26" 12" V.P. 2 hws.	
25	235+11	"	12"	40	8.0	2.00	4.1	65		40	" 12" x 40" " " " 2 hws. Remove 18" 6" V.P.	
26	245+18	"	12"	42	7.0	2.00	4.32	65		42	" 12" x 42" " " " 20" 6" V.P.	
27	250+95	"	12"	42	7.0	2.00	4.32	65		42	Remove 20" 6" V.P. Build 12" x 42" V.S.P. culv. 2 hws.	
28	252+90	"	12"	40	9.0	2.00	4.1	65		40	" 12" x 40" " " " "	
29	258+75	"	12"	40	7.0	2.00	4.1	65		40	" 18" 6" V.P. " " " "	
30	273+75	"	12"	50	8.0	2.00	5.18	65		50	Build 12" x 50" V.S.P. culv. 2 hws.	
31	280+0	"	12"	40	7.0	2.00	4.1	65		40	" 12" x 40" " " " "	
32	289+77	"	12"	44	7.0	2.00	4.53	65		44	" 12" x 44" " " " Remove 22" 6" V.P.	
33	294+95	"	12"	40	7.0	2.00	4.1	65		40	" 12" x 40" " " " 16" 6" V.P.	
34	301+50	"	12"	44	8.0	2.00	4.54	65		44	" 12" x 44" " " " 30" 6" V.P.	
35	308+43	"	12"	44	6.5	2.00	4.53	65		44	" 12" x 44" " " " 22" 6" V.P.	
36	312+0	"	12"	40	8.0	2.00	4.1	65		40	" 12" x 40" " " " 16" 12" V.P.	
37	316+75	"	12"	40	8.0	2.00	4.1	65		40	" 12" x 40" " " " 16" 12" "	
38	327+10	corr. iron pipe	12"	40	6.2	1.77		58		40	" 12" x 40" corr. iron pipe culv. 2 hws. Remove 20" 12" V.P.	
39	335+36	V.S.P. (enc)	12"	40	7.5	2.00	4.1	65		40	" 12" x 40" V.S.P. culv. 2 hws. Remove 20" 12" V.P.	
40	343+0	corr. iron pipe	12"	40	5.0	1.77		58		40	" 12" x 40" corr. iron pipe culv. 2 hws. Remove 20" 12" V.P.	
41	347+80	V.S.P. (enc)	12"	8	0.47	0.23		10		8	" 12" x 8" V.P. culv. 1 l.B. cap old l.B.	
42	366+76	V.S.P. (enc)	12"	46	8.0	2.00	4.75	65		46	" 12" x 46" " " " 2 hws. Remove 22" 12" V.P.	
43	378+25	corr. iron pipe	12"	66	8.0	1.77		58		66	" 12" x 66" corr. iron pipe culv. 2 hws.	
44	398+87	V.S.P. (enc)	12"	75	16.0	1.00	7.92	33		75	" 12" x 75" V.S.P. culv. 1 l.B. on L h/w on R	
45	412+0	"	12"	40	10.0	2.00	4.1	65		40	" 12" x 40" V.S.P. culv. 2 hws.	
46	420+0	"	12"	40	8.5	2.00	4.1	65		40	" 12" x 40" " " " " open ditch on R	
47	426+0	corr. iron pipe	10"	38	3.0	0.88		29		38	" 10" x 38" corr. iron pipe culv. 1 l.B. on L h/w on R	
48	434+65	corr. iron (sideroad)	12"	70	5.5	1.77		58		70	" 12" x 70" " " " sideroad 2 hws. grade ditch	
49	440+90	V.S.P. (enc)	12"	36	7.0		3.74			36	" 12" x 36" V.S.P. culv. 2 l.Bs.	
50	460+0	"	12"	40	8.5	2.00	4.1	65		40	" 12" x 40" " " " 2 l.Bs.	
51	466+66	"	12"	50	11.0	2.00	5.18	65		50	" 12" x 50" " " " "	
52	501+50	"	12"	40	7.5	2.00	4.1	65		40	" 12" x 40" " " " "	
53	507+70	"	12"	40	10.5	2.00	4.1	65		40	" 12" x 40" " " " " open 50' ditch on R	
54	516+0	"	12"	40	10.0	2.00	4.1	65		40	" 12" x 40" " " " 2 l.Bs.	
55	541+0	"	12"	34	11.0		3.53			34	" 12" x 34" " " " "	
56	564+0	"	12"	84	7.5		3.53			84	" 12" x 34" " " " "	

SUMMARY OF EXCAVATION & EMBANKMENT						
FROM STA.	TO STA.	EXC.	EMB.	EMB + 30%	WASTE	BORROW
0+38	5+0	561.3	312.9	406.7	54.6	
5+0	14+0	692.0	192.6	250.6	441.4	
14+0	19+0	342.8	26.0	33.8	309.0	
19+0	25+0	372.0	204.3	265.3	106.7	
25+0	29+50	208.9	139.5	181.3	28.6	
29+50	38+0	256.3	180.7	234.9	21.4	
38+0	48+15	323.9	247.5	321.8	2.1	
48+15	58+33	602.5	464.4	603.7		1.2
58+33	69+50	401.9	310.7	403.9		2.0
69+50	79+50	339.8	260.3	338.4	1.4	
79+50	84+80	169.1	129.6	168.4	0.7	
84+80	92+0	239.2	174.3	226.6	12.6	
92+0	98+0	197.4	124.5	161.8	35.6	
98+0	107+0	371.2	204.2	265.5	105.0	
107+0	125+50	291.9	191.9	248.4	42.6	
125+50	128+50	268.5	206.1	267.9	0.6	
128+50	138+0	462.9	335.5	436.1	26.8	
138+0	145+0	261.5	192.1	249.7	11.8	
145+0	150+75	223.7	167.1	217.1	6.6	
150+75	156+50	367.6	266.8	346.8	20.8	
156+50	164+0	573.3	171.8	223.4	349.9	
164+0	172+0	192.4	146.0	189.8	2.6	
172+0	179+0	258.9	177.9	231.3	27.6	
179+0	184+42	526.5	394.9	513.4	13.1	
184+42	187+85	535.0	408.7	531.3	3.7	
187+85	191+70	289.2	225.1	292.6		3.4
191+70	196+70	425.6	327.8	426.1		0.5
196+70	199+75	238.4	182.1	236.7	1.7	
199+75	206+0	675.7	411.4	534.8	140.9	
206+0	215+25	478.8	367.5	477.8	1.0	
215+25	225+0	647.4	485.6	631.2	16.2	
225+0	230+90	268.7	203.9	265.1	3.6	
230+90	237+0	392.2	302.5	393.2		1.0
237+0	245+50	540.0	410.6	533.8	6.2	
245+50	253+50	427.1	326.0	423.8	3.3	
253+50	260+40	368.7	284.1	369.3		0.6
260+40	263+60	93.6	68.2	88.7	4.9	
263+60	270+70	328.0	236.3	307.2	20.8	
270+70	276+25	265.2	197.8	257.1	8.1	
276+25	284+0	413.0	296.9	386.0	27.0	
284+0	290+50	266.2	203.6	264.7	1.5	
290+50	300+0	423.3	304.8	396.2	27.1	
300+0	308+50	416.2	320.2	416.3		0.1
308+50	314+50	297.5	226.8	294.8	2.7	
314+50	321+0	319.3	220.5	286.6	32.7	
321+0	331+55	399.0	266.8	346.8	52.2	
331+55	341+0	393.3	247.4	321.6	71.7	
341+0	348+25	320.2	217.7	283.0	37.2	
348+25	357+70	648.3	501.0	651.3		3.0
357+70	365+75	399.1	307.3	399.5		0.4
365+75	371+0	763.4	523.6	680.7	82.7	
371+0	379+0	466.0	308.5	401.0	65.0	
379+0	385+0	226.8	172.3	224.0	2.8	
385+0	395+35	424.3	300.8	391.0	33.3	
395+35	399+60	411.1	217.5	282.8	128.3	
399+60	405+0	238.9	177.5	230.8	8.1	
405+0	414+70	532.3	346.2	450.0	82.3	
414+70	420+0	275.2	211.3	274.7	0.5	
420+0	429+0	432.2	317.2	412.4	19.8	
429+0	436+25	273.8	208.4	270.9	2.9	
436+25	440+25	146.9	113.9	148.1		1.2
440+25	445+50	162.2	120.6	182.8		20.6
445+50	456+0	394.6	295.1	389.6	11.0	
456+0	463+50	287.3	219.4	285.2	2.1	
463+50	474+0	392.6	301.7	392.2	0.4	
474+0	487+0	253.5	195.0	253.5		
487+0	493+0	691.7				