

PIPE NUMBER	DIAMETER (inches)	CLASS	TYPE	MATERIAL	LENGTH (LF)	PIPE SLOPE (%)	TRENCH BACKFILL (CY)	NOTES
US RTE 20 (Lake Street)								
1A	23" x 14"	IV	1	Elliptical RCP	4'	0.50	1	Connect to new 6'x2' Box Culvert
1B	23" x 14"	IV	1	Elliptical RCP	283'	0.35	61	
2	23" x 14"	IV	1	Elliptical RCP	75'	0.40	15	
3	23" x 14"	IV	1	Elliptical RCP	144'	0.48	33	
4	12"	IV	1	RCP	28'	1.00	2	
5	12"	IV	1	RCP	3'	2.00	1	
6	12"	IV	1	RCP	27'	0.56	2	
7	12"	IV	1	RCP	35'	0.34	5	
8	12"	IV	1	RCP	3'	2.00	1	
9	12"	IV	1	RCP	30'	0.50	3	
10	12"	IV	1	RCP	30'	0.47	3	
11	12"	IV	1	RCP	51'	0.57	9	Connect To Existing MH @ 694.01 WATER MAIN QUALITY PIPE
12	12"	III	2	RCP	33'	1.88	8	
13	12"	IV	1	RCP	3'	5.00	1	
14	18"	IV	1	RCP	44'	0.68	18	
15	18"	IV	1	RCP	46'	0.96	10	
16	18"	IV	1	RCP	3'	2.33	1	
17	18"	IV	1	RCP	96'	0.42	23	
18	15"	IV	1	RCP	246'	0.37	77	
19	12"	IV	1	RCP	60'	1.00	14	
20	12"	IV	1	RCP	4'	2.50	1	
21	12"	IV	1	RCP	4'	5.00	1	
22	12"	III	2	RCP	82'	1.10	18	
23	24"	IV	1	RCP	99'	0.57	43	
24	24"	IV	1	RCP	3'	0.67	2	
25	15"	III	2	RCP	146'	0.29	63	
26	12"	IV	1	RCP	146'	0.38	50	
27	12"	IV	1	RCP	146'	0.38	47	
28	12"	III	2	RCP	96'	0.39	38	
29	12"	IV	1	RCP	4'	1.75	1	
30	12"	IV	1	RCP	4'	2.50	1	
31	12"	IV	1	RCP	3'	3.67	1	
32	12"	IV	1	RCP	3'	3.33	1	
33	24"	IV	1	RCP	103'	2.40	53	
34	24"	IV	1	RCP	20'	3.20	5	
35	24"	IV	1	RCP	23'	3.20	7	
36	24"	IV	1	RCP	26'	3.20	13	
36A	12"	IV	1	RCP	34'	2.00	5	
37	12"	IV	1	RCP	66'	1.74	10	Field Verify Manhole Invert on Existing SS.
38	5' x 2' BC	See Note	1	RCBC	109'	0.98	68	Material to meet ASTM C-850/AASHTO M 273
39	12"	IV	1	RCP	10'	1.00	4	Connect to side of 5'x2' Box Culvert at Invert Elevation 681.90 @ 35' Rt. WATER MAIN QUALITY PIPE
42	12"	IV	1	RCP	10'	1.00	2	Connect to side of 5'x2' Box Culvert at Invert Elevation 681.54 @ 4' Lt.
43	12"	IV	1	RCP	41'	0.98	6	Connect to side of 5'x2' Box Culvert at Invert Elevation 681.90 @ 35' Rt. WATER MAIN QUALITY PIPE
44	12"	IV	1	RCP	55'	0.51	6	Connect to side of 5'x2' Box Culvert at Invert Elevation 681.90 @ 35' Rt. WATER MAIN QUALITY PIPE
45	12"	IV	1	RCP	41'	2.54	7	Connect to side of 5'x2' Box Culvert at Invert Elevation 681.54 @ 4' Lt.
46	12"	IV	1	RCP	56'	0.50	6	
47	12"	IV	1	RCP	28'	0.54	10	
48	12"	IV	1	RCP	61'	1.00	10	
49	12"	IV	1	RCP	70'	1.00	11	
Ramp 'F'								
101	24"	IV	1	RCP	98'	0.36	30	
102	24"	IV	1	RCP	61'	0.43	14	
York Road								
201	18"	IV	1	RCP	239'	0.26	45	
202	12"	IV	1	RCP	45'	0.40	7	
203	12"	IV	1	RCP	5'	0.40	1	
204	12"	IV	1	RCP	26'	0.40	4	Connect to Existing MH @ 684.10 WATER MAIN QUALITY PIPE
205	12"	IV	1	RCP	32'	0.40	5	

SUMMARY OF PIPE QUANTITIES		
ITEM DESCRIPTION	UNIT	QUANTITY
PRECAST CONCRETE BOX CULVERT 5' x 2'	FOOT	109
STORM SEWERS, TYPE 1, REINFORCED CONCRETE CULVERT, STORM DRAIN, AND SEWER PIPE, CLASS IV 12"	FOOT	987
STORM SEWERS, TYPE 1, REINFORCED CONCRETE CULVERT, STORM DRAIN, AND SEWER PIPE, CLASS IV 15"	FOOT	246
STORM SEWERS, TYPE 1, REINFORCED CONCRETE CULVERT, STORM DRAIN, AND SEWER PIPE, CLASS IV 18"	FOOT	431
STORM SEWERS, TYPE 1, REINFORCED CONCRETE CULVERT, STORM DRAIN, AND SEWER PIPE, CLASS IV 24"	FOOT	433
STORM SEWERS, TYPE 2, REINFORCED CONCRETE CULVERT, STORM DRAIN, AND SEWER PIPE, CLASS III 12"	FOOT	211
STORM SEWERS, TYPE 2, REINFORCED CONCRETE CULVERT, STORM DRAIN, AND SEWER PIPE, CLASS III 15"	FOOT	146
STORM SEWERS, TYPE 1, REINFORCED CONCRETE ELLIPTICAL PIPE, SPAN 23, RISE 14	FOOT	506
STORM SEWERS, TYPE 1, WATER MAIN QUALITY PIPE, 12"	FOOT	177