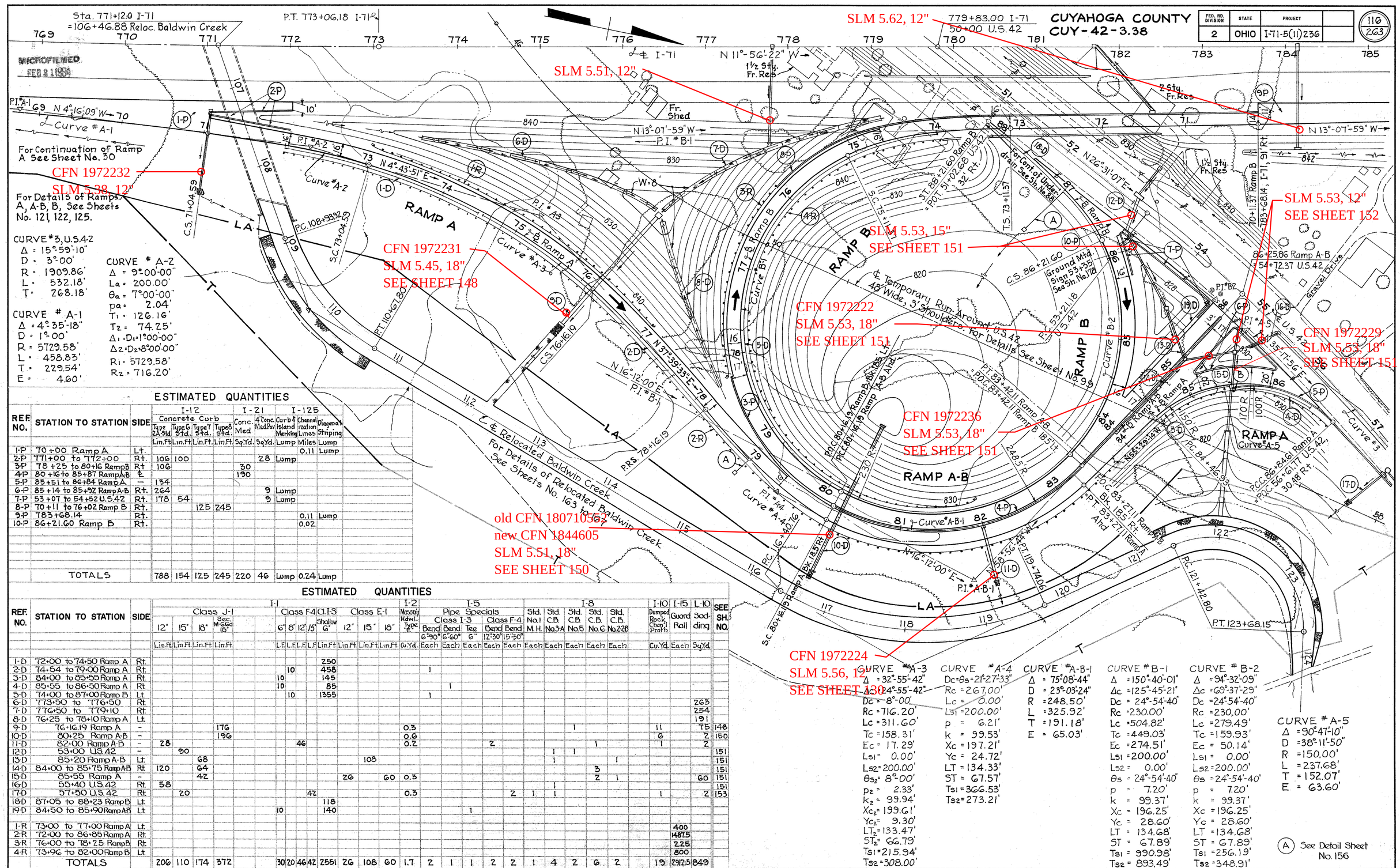
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO	I-71-5(11)236	

CUYAHOGA COUNTY
CUY-42-3.38

116
263



CURVE #3, U.S.42
Δ = 15°-59'-10"
D = 3°-00'
R = 1909.86'
L = 532.18'
T = 268.18'

CURVE # A-1
Δ = 4°-35'-18"
D = 1°-00'
R = 5729.58'
L = 458.83'
T = 229.54'
E = 4.00'

CURVE # A-2
Δ = 9°-00'-00"
La = 200.00'
θa = 7°-00'-00"
pa = 2.04'
T1 = 126.16'
T2 = 74.25'
Δ1 = D1 = 1°-00'-00"
Δ2 = D2 = 8°-00'-00"
R1 = 5729.58'
R2 = 716.20'

ESTIMATED QUANTITIES

REF NO.	STATION TO STATION	SIDE	I-12 Concrete Curb Type ZA Std.	I-12 Type G Std.	I-12 Type T Std.	I-12 Type B Std.	I-21 Conc. Med	I-21 4" Conc. Med. Pav.	I-125 Curb & Island Marking	I-125 Channelization Lines	I-125 Pigmented Striping
			Lin.Ft.	Lin.Ft.	Lin.Ft.	Lin.Ft.	Sq.Yd.	Sq.Yd.	Lump	Miles	Lump
1-P	70+00 Ramp A	Lt.								0.11	Lump
2-P	771+00 to 772+00	Rt.	106	100				28	Lump		
3-P	78+25 to 80+16 Ramp B	Rt	106				30				
4-P	80+16 to 85+87 Ramp A-B	℄					190				
5-P	85+51 to 86+84 Ramp A	—	134								
6-P	85+14 to 85+92 Ramp A-B	Rt.	264					9	Lump		
7-P	53+07 to 54+52 U.S.42	Rt.	178	54				9	Lump		
8-P	70+11 to 76+02 Ramp B	Rt.			125	245					
9-P	783+68.14	Rt.								0.11	Lump
10-P	86+21.60 Ramp B	Rt.								0.02	
	TOTALS		788	154	125	245	220	46	Lump	0.24	Lump

ESTIMATED QUANTITIES

REF. NO.	STATION TO STATION	SIDE	I-1 Class J-1 12"	15"	18"	Sec. M-Gdd 18"		I-1 Class F4 6"	8"	12"	15"	Cl. I-3 Shallow 6"	I-1 Class E-1 12"	15"	18"	I-2 Mcony Hdwl. Type "E"	I-5 Pipe Specials Class I-3 Bend 6"-90°	Bend 6"-60°	Tee 6"	Class F-4 Bend 12"-30°	Bend 15"-30°	I-8 Std. No.1 M.H.	Std. C.B. No.3A	Std. C.B. No.5	Std. C.B. No.6	Std. C.B. No.22B		I-10 Dumped Rock, Chan'l Prot'n	I-15 Guard Rail	L-10 Sodding	SEE SH. NO.
			Lin.Ft.	Lin.Ft.	Lin.Ft.	Lin.Ft.		L.F.	L.F.	L.F.	L.F.	Lin.Ft.	Lin.Ft.	Lin.Ft.	Lin.Ft.	Cu.Yd.	Each	Each	Each	Each	Each	Each	Each	Each	Each	Each		Cu.Yd.	Each	Sq.Yd.	
1-D	72+00 to 74+50 Ramp A	Rt.										250																			
2-D	74+54 to 79+00 Ramp A	Rt.							10			458					1														
3-D	84+00 to 85+55 Ramp A	Rt.						10				145																			
4-D	85+55 to 86+50 Ramp A	Rt.						10				85						1													
5-D	74+00 to 87+00 Ramp B	Lt.							10			1355					1														
6-D	773+50 to 776+50	Rt.																												263	
7-D	776+50 to 779+10	Rt.																												254	
8-D	76+25 to 78+10 Ramp A	Lt.																												191	
9-D	76+16.19 Ramp A	-				176										0.3								1				11		75	148
10-D	80+25 Ramp A-B	-				196										0.6												6		2	150
11-D	82+00 Ramp A-B	-	28							46						0.2				2					1			1		2	
12-D	53+00 U.S.42	-		90																		1	1								151
13-D	85+20 Ramp A-B	Lt.			68									108								1				1					151
14-D	84+00 to 85+75 Ramp A-B	Rt.	120		64																				3						151
15-D	85+55 Ramp A	-			42								26		60	0.3									2	1				60	151
16-D	55+40 U.S.42	Rt.	58																			1									151
17-D	57+50 U.S.42	Rt.		20							42					0.3					2	1	1					1		2	153
18-D	87+05 to 88+23 Ramp B	Lt.										118																			
19-D	84+50 to 85+90 Ramp A-B	Lt.						10				140							1												
1-R	73+00 to 77+00 Ramp A	Lt.																											400		
2-R	72+00 to 86+85 Ramp A	Rt.																											1487.5		
3-R	76+00 to 78+75 Ramp B	Rt.																											225		
4-R	73+96 to 82+00 Ramp B	Lt.																											800		
	TOTALS		206	110	174	372		30	20	46	42	2551	26	108	60	1.7	2	1	1	2	2	1	4	2	6	2		19	2912.5	849	

CURVE # A-3
Δ = 32°-55'-42"
D = 8°-00'
Rc = 716.20'
Lc = 311.60'
Tc = 158.31'
Ec = 17.29'
Ls1 = 0.00'
Ls2 = 200.00'
θs2 = 8°-00'
p2 = 2.33'
k2 = 99.94'
Xc2 = 199.61'
Yc2 = 9.30'
LT2 = 133.47'
ST2 = 66.79'
Ts1 = 215.94'
Ts2 = 308.00'

CURVE # A-4
Δ = 24°-55'-42"
Dc = θs = 21°-27'-33"
Rc = 267.00'
Lc = 0.00'
Ls1 = 200.00'
p = 6.21'
k = 99.53'
Xc = 197.21'
Yc = 24.72'
LT = 134.33'
ST = 67.57'
Ts1 = 366.53'
Ts2 = 273.21'

CURVE # A-B-1
Δ = 75°-08'-44"
D = 23°-03'-24"
R = 248.50'
L = 325.92'
T = 191.18'
E = 65.03'

CURVE # B-1
Δ = 150°-40'-01"
Δc = 125°-45'-21"
Dc = 24°-54'-40"
Rc = 230.00'
Lc = 504.82'
Tc = 449.03'
Ec = 274.51'
Ls1 = 200.00'
Ls2 = 0.00'
θs = 24°-54'-40"
p = 7.20'
k = 99.37'
Xc = 196.25'
Yc = 28.60'
LT = 134.68'
ST = 67.89'
Ts1 = 990.98'
Ts2 = 893.49'

CURVE # B-2
Δ = 94°-32'-09"
Δc = 69°-37'-29"
Dc = 24°-54'-40"
Rc = 230.00'
Lc = 279.49'
Tc = 159.93'
Ec = 50.14'
Ls1 = 0.00'
Ls2 = 200.00'
θs = 24°-54'-40"
p = 7.20'
k = 99.37'
Xc = 196.25'
Yc = 28.60'
LT = 134.68'
ST = 67.89'
Ts1 = 256.19'
Ts2 = 348.91'

CURVE # A-5
Δ = 90°-47'-10"
D = 38°-11'-50"
R = 150.00'
L = 237.68'
T = 152.07'
E = 63.60'

(A) See Detail Sheet No. 156

U.S. 42 INTERCHANGE - PLAN - RAMPS A, A-B & B