PROJ. REFERENCE No.	SHEET No.	TOTAL SHEETS
STATE PROJ. No.	F.A. PROJ. No.	DESCRIPTION

REGISTERED ENGINEER
12/12/97

RAMP A

1

PI Sta 6+71.22	PI Sta 4+06.44	PI Sta 1+33.44
ϕs = 7° 00' 00.00"	= 28° 18' 42.36" (RT)	ϕs = 7° 00' 00.00"
Ls = 200.00'	D = 7° 00' 00.00"	Ls = 200.00'
Rc = 818.51'	L = 404.45'	Rc = 818.51'
Dc = 7° 00' 00.00"	T = 206.44'	Dc = 7° 00' 00.00"
Ys = 8.14'	R = 818.51'	Ys = 8.14'
Xs = 199.70'	SC Sta 2+00.00	Xs = 199.70'
P = 2.04	CS Sta 6+04.45	P = 2.04
K = 99.95'		K = 99.95'
LT = 133.44'		LT = 133.44'
ST = 66.76'		ST = 66.76'
CS Sta 6+04.45		TS Sta 0+00.00
ST Sta 8+04.45		SC Sta 2+00.00

2

PI Sta 11+90.60	PI Sta 10+79.09	PI Sta 9+68.02
ϕs = 14° 00' 00.00"	= 12° 29' 59.72" (LT)	ϕs = 14° 00' 00.00"
Ls = 200.00'	D = 14° 00' 00.00"	Ls = 200.00'
Rc = 409.26'	L = 89.29'	Rc = 409.26'
Dc = 14° 00' 00.00"	T = 44.82'	Dc = 14° 00' 00.00"
Ys = 16.22'	R = 409.26'	Ys = 16.22'
Xs = 198.81'	SC Sta 10+34.27	Xs = 198.81'
P = 4.06	CS Sta 11+23.55	P = 4.06
K = 99.80'		K = 99.80'
LT = 133.75'		LT = 133.75'
ST = 67.05'		ST = 67.05'
CS Sta 11+23.55		TS Sta 8+34.27
ST Sta 13+23.55		SC Sta 10+34.27

LOOP A

1

PI Sta 7+59.00	PI Sta 5+96.44	PI Sta 1+34.58
ϕs = 24° 00' 00.00"	= 111° 53' 17.26" (LT)	ϕs = 24° 00' 00.00"
Ls = 200.00'	D = 24° 00' 00.00"	Ls = 200.00'
Rc = 238.73'	L = 491.20'	Rc = 238.73'
Dc = 24° 00' 00.00"	T = 396.44'	Dc = 24° 00' 00.00"
Ys = 27.58'	R = 238.73'	Ys = 27.58'
Xs = 196.52'	SC Sta 2+00.00	Xs = 196.52'
P = 6.94	CS Sta 6+91.20	P = 6.94
K = 99.42'		K = 99.42'
LT = 134.58'		LT = 134.58'
ST = 67.80'		ST = 67.80'
CS Sta 6+91.20		TS Sta 0+00.00
ST Sta 8+91.20		SC Sta 2+00.00

RAMP D

1

PI Sta 6+95.25	PI Sta 4+19.28	PI Sta 1+33.44
ϕs = 7° 00' 00.00"	= 29° 59' 39.33" (LT)	ϕs = 7° 00' 00.00"
Ls = 200.00'	D = 7° 00' 00.00"	Ls = 200.00'
Rc = 818.51'	L = 428.49'	Rc = 818.51'
Dc = 7° 00' 00.00"	T = 219.26'	Dc = 7° 00' 00.00"
Ys = 8.14'	R = 818.51'	Ys = 8.14'
Xs = 199.70'	SC Sta 2+00.00	Xs = 199.70'
P = 2.04	CS Sta 6+28.49	P = 2.04
K = 99.95'		K = 99.95'
LT = 133.44'		LT = 133.44'
ST = 66.76'		ST = 66.76'
CS Sta 6+28.49		TS Sta 0+00.00
ST Sta 8+28.49		SC Sta 2+00.00

2

PI Sta 11+76.03	PI Sta 11+00.78	PI Sta 10+26.57
ϕs = 16° 00' 00.00"	= 12° 35' 16.14" (RT)	ϕs = 16° 00' 00.00"
Ls = 200.00'	D = 16° 00' 00.00"	Ls = 200.00'
Rc = 358.10'	L = 16.17'	Rc = 358.10'
Dc = 16° 00' 00.00"	T = 8.09'	Dc = 16° 00' 00.00"
Ys = 18.51'	R = 358.10'	Ys = 18.51'
Xs = 198.45'	SC Sta 10+92.69	Xs = 198.45'
P = 4.64	CS Sta 11+08.86	P = 4.64
K = 99.74'		K = 99.74'
LT = 133.88'		LT = 133.88'
ST = 67.71'		ST = 67.71'
CS Sta 11+08.86		TS Sta 8+92.69
ST Sta 13+08.86		SC Sta 10+92.69

RAMP D

1

PI Sta 1+34.58	PI Sta 5+75.41	PI Sta 7+47.36
ϕs = 24° 00' 00.00"	= 115° 05' 36.52" (RT)	ϕs = 24° 00' 00.00"
Ls = 200.00'	D = 24° 00' 00.00"	Ls = 200.00'
Rc = 238.73'	L = 479.56'	Rc = 238.73'
Dc = 24° 00' 00.00"	T = 375.41'	Dc = 24° 00' 00.00"
Ys = 27.58'	R = 238.73'	Ys = 27.58'
Xs = 196.52'	SC Sta 2+00.00	Xs = 196.52'
P = 6.94	CS Sta 6+79.56	P = 6.94
K = 99.42'		K = 99.42'
LT = 134.58'		LT = 134.58'
ST = 67.80'		ST = 67.80'
TS Sta 0+00.00		CS Sta 6+79.56
SC Sta 2+00.00		ST Sta 8+79.56

FUTURE SERVICE ROAD

PI Sta 15+11.70	PI Sta 12+82.13
Δ = 37° 04' 53.04" (RT)	Δ = 51° 08' 58.63" (LT)
D = 4° 59' 59.99"	D = 16° 00' 00.00"
L = 181.63'	L = 319.06'
T = 91.00'	T = 170.99'
R = 1,145.92'	R = 358.10'
PC Sta 14+20.70	PC Sta 11+11.14
PT Sta 16+02.33	PT Sta 14+30.20

US15-501 / LAUREL HILL DR. INTERCHANGE

0 100 200 400

PB PARSONS BRINCKERHOFF
991 AVIATION PARKWAY
SUITE 500
MORRISVILLE, NC 27560

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12/12/97