CURVE DATA -L-

-A1C1-KINSTON BYPASS

PIs Sta 1084+30.40	PI Sta 1092+91.59	PIs Sta 1101+42.72
θs = 0° 59' 59.7"	Δ = 15° 47' 19.3" (RT)	θs = 0° 59' 59.7"
Ls = 200.00'	D = 0° 59' 59.7"	Ls = 200.00'
LT = 133.34'	L = 1,578.98'	LT = 133.34'
ST = 66.67'	T = 794.53'	ST = 66.67'
	R = 5,730.00'	
	DS = 70mph	
	e = 4.0%	

CURVE DATA -Y10-

-Y10- BURKETT ROAD

PIs Sta 19+81.66	PI Sta 22+09.46	PIs Sta 24+32.78
θs = 7° 32' 20.1"	Δ = 23° 57' 28.8" (RT)	θs = 7° 32' 20.1"
Ls = 200.00'	D = 7° 32' 20.1"	Ls = 200.00'
LT = 133.45'	L = 317.79'	LT = 133.45'
ST = 66.78'	T = 161.25'	ST = 66.78'
	R = 760.00'	
	DS = 50mph	
	e = 8.0%	

PIs Sta 29+49.10	PI Sta 35+85.71	PIs Sta 40+60.63
θs = 7° 32' 20.1"	Δ = 73° 44' 46.0" (LT)	θs = 7° 32' 20.1"
Ls = 200.00'	D = 7° 32' 20.1"	Ls = 200.00'
LT = 133.45'	L = 978.21'	LT = 133.45'
ST = 66.78'	T = 570.07'	ST = 66.78'
	R = 760.00'	
	DS = 50mph	
	e = 8.0%	

PIs Sta 51+39.03	PI Sta 56+80.21	PIs Sta 61+20.89
θs = 7° 32' 20.1"	Δ = 63° 58' 12.4" (RT)	θs = 7° 32' 20.1"
Ls = 200.00'	D = 7° 32' 20.1"	Ls = 200.00'
LT = 133.45'	L = 848.53'	LT = 133.45'
ST = 66.78'	T = 474.63'	ST = 66.78'
	R = 760.00'	
	DS = 50mph	
	e = 8.0%	

-Y10_RPA-

PIs Sta 14+31.98	PI Sta 16+61.95	PIs Sta 18+90.02	PI Sta 22+79.80
θs = 4° 46' 28.7"	Δ = 15° 30' 12.4" (RT)	θs = 4° 46' 28.7"	Δ = 28° 03' 09.9" (LT)
Ls = 200.00'	D = 4° 46' 28.7"	Ls = 200.00'	D = 9° 32' 57.5"
LT = 133.38'	L = 324.70'	LT = 133.38'	L = 293.77'
ST = 66.71'	T = 163.35'	ST = 66.71'	T = 149.89'
	R = 1,200.00'		R = 600.00'
	DS = 50mph		DS = 35mph
	e = 7.0%		e = 7.0%

-Y10_RPB-

PIs Sta 12+32.65	PI Sta 13+38.72	PIs Sta 14+44.86	PI Sta 22+41.17
θs = 4° 46' 28.7"	Δ = 3° 46' 00.2" (LT)	θs = 4° 46' 28.7"	Δ = 28° 00' 59.4" (RT)
Ls = 200.00'	D = 4° 46' 28.7"	Ls = 200.00'	D = 7° 09' 43.1"
LT = 133.38'	L = 78.89'	LT = 133.38'	L = 391.18'
ST = 66.71'	T = 39.46'	ST = 66.71'	T = 199.58'
	R = 1,200.00'		R = 800.00'
	DS = 50mph		DS = 35mph
	e = 7.0%		e = 6.0%

-Y10_RPC-

PIs Sta 13+33.03	PI Sta 16+21.94	PIs Sta 19+05.97	PI Sta 24+25.79
θs = 4° 46' 28.7"	Δ = 20° 59' 24.8" (RT)	θs = 4° 46' 28.7"	Δ = 18° 49' 32.6" (LT)
Ls = 200.00'	D = 4° 46' 28.7"	Ls = 200.00'	D = 7° 09' 43.1"
LT = 133.38'	L = 439.62'	LT = 133.38'	L = 262.86'
ST = 66.71'	T = 222.30'	ST = 66.71'	T = 132.62'
	R = 1,200.00'		R = 800.00'
	DS = 50mph		DS = 35mph
	e = 7.0%		e = 6.0%

-Y10_RPD-

PIs Sta 11+33.38	PI Sta 13+07.88	PIs Sta 14+81.88	PI Sta 22+72.49
θs = 4° 46' 28.7"	Δ = 10° 16' 25.4" (LT)	θs = 4° 46' 28.7"	Δ = 19° 49' 22.9" (RT)
Ls = 200.00'	D = 4° 46' 28.7"	Ls = 200.00'	D = 7° 09' 43.1"
LT = 133.38'	L = 215.17'	LT = 133.38'	L = 276.78'
ST = 66.71'	T = 107.88'	ST = 66.71'	T = 139.79'
	R = 1,200.00'		R = 800.00'
	DS = 50mph		DS = 35mph
	e = 7.0%		e = 6.0%

2015 ADT / 2040 ADT

Approach	2015 ADT	2040 ADT
-Y10- Old US 70	1,900	2,400
-L- ROUTE 70 (west)	13,400	25,400
-L- ROUTE 70 (east)	11,100	24,000
-Y10- BURKETT ROAD	1,400	1,600
Turn (NW quadrant)	1,600	1,500
Turn (NE quadrant)	100	700
Turn (SW quadrant)	1,000	1,000
Turn (SE quadrant)	200	400

STIP PROJECT R-2553
KINSTON BYPASS

R-2553 Kinston Bypass
Upgrade Existing Shallow Bypass
Sheet 18 of 18

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

100' 0' 100' 200'

PREPARED FOR
NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH, NORTH CAROLINA

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