6/10/99

REVISIONS

PROJECT REFERENCE NO.	SHEET NO.
	22

R/W SHEET NO.

METRIC

5 0 10

CONST. REV.

R/W REV.

ROADWAY DESIGN ENGINEER — NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 12300 CHARLES LEE FLOWE — 7/16/04

HYDRAULICS ENGINEER — NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 20754 WILLIAM T. STEPHENS, JR. — 7/16/04

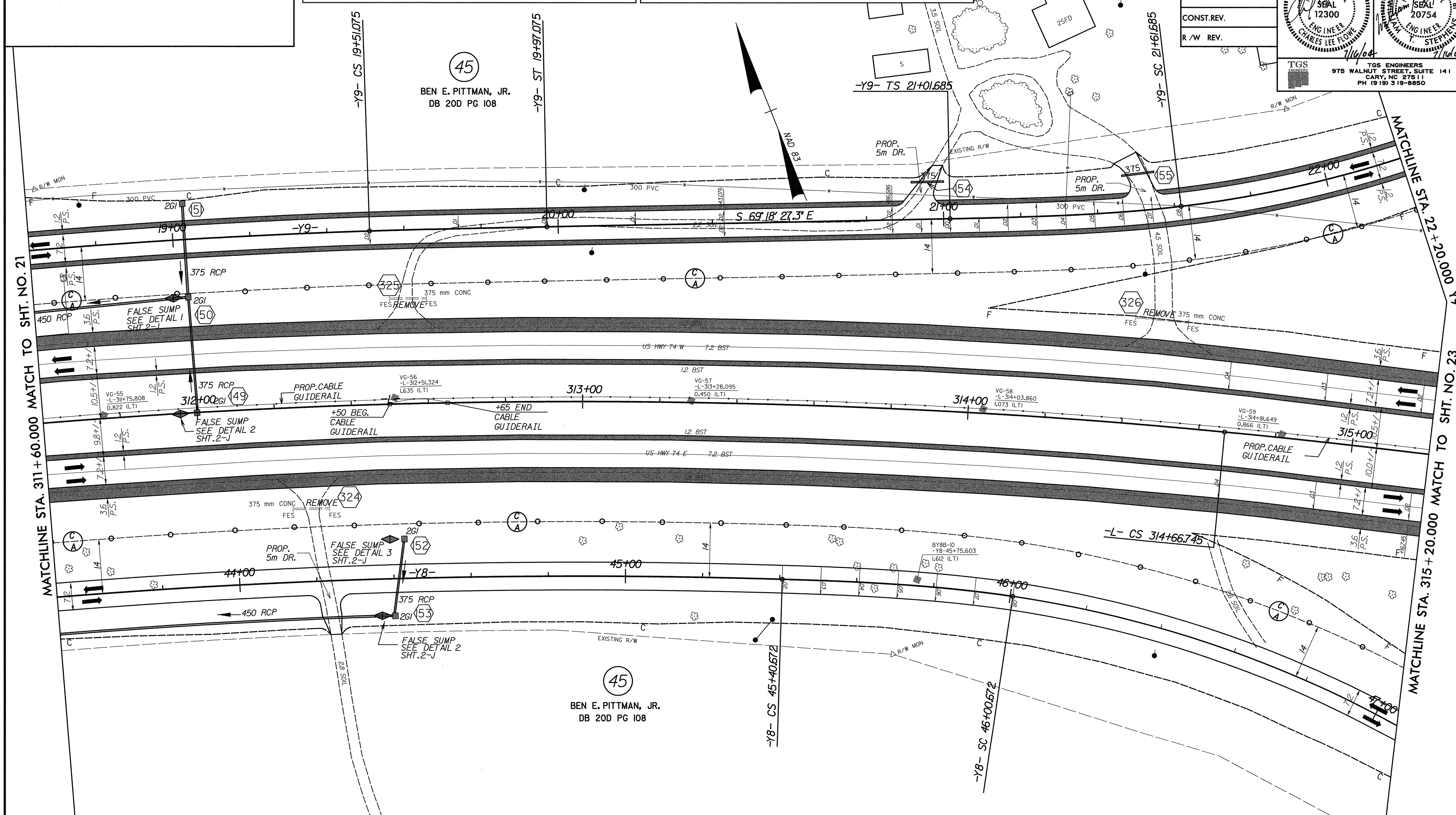
TGS ENGINEERS
975 WALNUT STREET, SUITE 141
CARY, NC 27511
PH (919) 319-8850

-Y9-

PIs Sta 15+81.476	PI Sta 17+74.523	PIs Sta 19+66.409
Θs = 0° 44′ 10.3″	Δ = 11° 20′ 22.7″ (RT)	Θs = 0° 44′ 10.3″
Ls = 46.000	L = 354.266	Ls = 46.000
LT = 30.667	T = 177.714	LT = 30.667
ST = 15.334	R = 1,790.000	ST = 15.334
	SE = 2%	

-Y9-

PIs Sta 21+41.706	PI Sta 22+13.264	PIs Sta 22+83.863
Θs = 5° 43′ 46.5″	Δ = 19° 30′ 38.7″ (LT)	Θs = 5° 43′ 46.5″
Ls = 60.000	L = 102.158	Ls = 60.000
LT = 40.021	T = 51.578	LT = 40.021
ST = 20.019	R = 300.000	ST = 20.019
	SE = 8%	



-Y8-

PIs Sta 40+86.528	PI Sta 43+31.133
Θs = 1° 39′ 47.7″	Δ = 14° 11′ 50.8″ (RT)
Ls = 98.700	L = 421.247
LT = 65.803	T = 211.708
ST = 32.903	R = 1,700.001
	SE = 2%

-Y8-

PIs Sta 45+77.705	PI Sta 46+84.050	PIs Sta 47+83.343
Θs = 6° 44′ 26.4″	Δ = 31° 03′ 50.8″ (RT)	Θs = 5° 43′ 46.5″
Ls = 60.000	L = 162.651	Ls = 60.000
R1 = 1700.000	T = 83.378	LT = 40.021
R2 = 300.000	R = 300.000	ST = 20.019
LT = 37.033	SE = 8%	
ST = 23.030		

-L-

PIs Sta 308+86.745	PI Sta 311+95.668	PIs Sta 315+00.081
Θs = 1° 38′ 30.2″	Δ = 17° 56′ 58.2″ (RT)	Θs = 1° 38′ 30.2″
Ls = 100.000	L = 546.670	Ls = 100.000
LT = 66.670	T = 275.593	LT = 66.670
ST = 33.336	R = 1,745.000	ST = 33.336
	SE = 4%	

SEE SHEET NO. 62 FOR -L- RT LN & -L- LT LN GRADES AND PROFILES.
SEE SHEETS NO. 126 AND NO. 127 FOR LINE -Y8- GRADE AND PROFILE.
SEE SHEET NO. 133 AND 134 FOR LINE -Y9- GRADE AND PROFILE.

$$$$SYSTIME$$$$
$$$$$$$$$$$$$$$$DGN$$$$$$$$$$$$$$$$
$$$$USERNAME$$$$