

-Y4DET- DETOUR DETAIL

METRIC

PROJECT REFERENCE NO. R-513C SHEET NO. 2-W
 R / W SHEET NO.

ROADWAY DESIGN ENGINEER
 HYDRAULICS ENGINEER

CONST. REV.
 R / W REV.

7/16/04

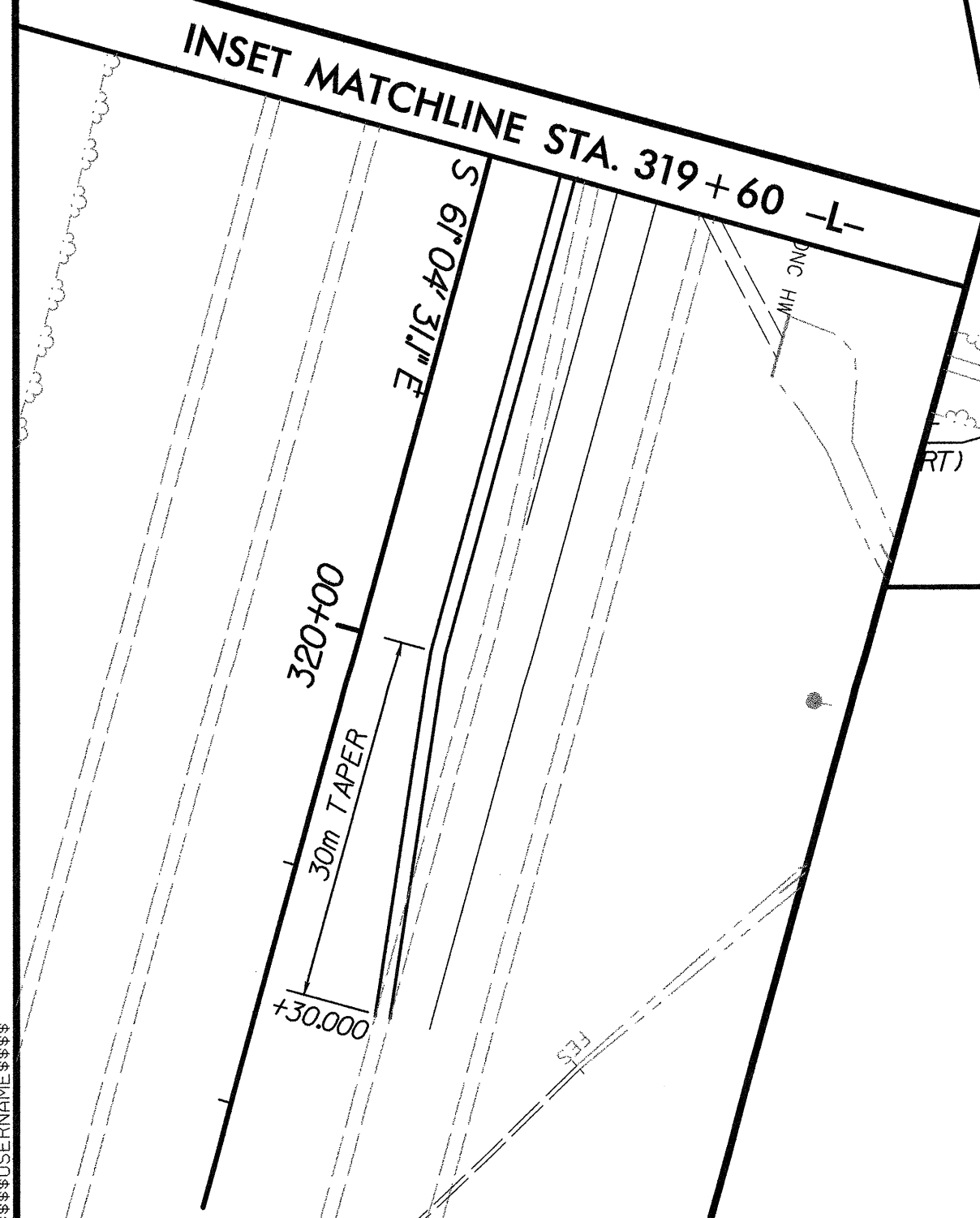
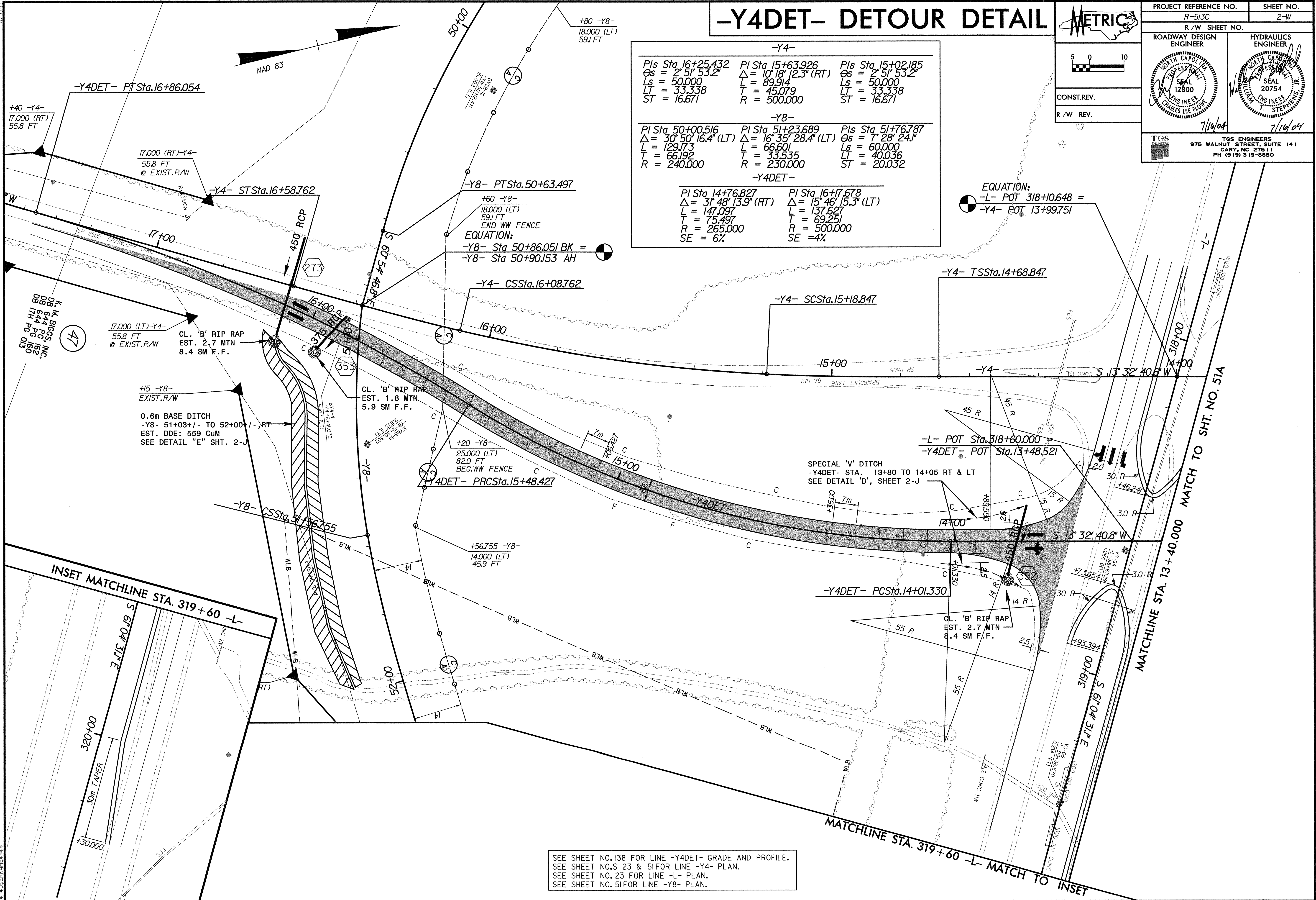
TGS ENGINEERS
 975 WALNUT STREET, SUITE 141
 GARY, NC 27511
 PH (919) 319-8850

-Y4-		
PI Sta 16+25.432	PI Sta 15+63.926	PI Sta 15+02.185
$\Theta_s = 2^\circ 51' 53.2''$	$\Delta = 10^\circ 18' 12.3''$ (RT)	$\Theta_s = 2^\circ 51' 53.2''$
$L_s = 50.000$	$L = 89.914$	$L_s = 50.000$
$LT = 33.338$	$T = 45.079$	$LT = 33.338$
$ST = 16.671$	$R = 500.000$	$ST = 16.671$

-Y8-		
PI Sta 50+00.516	PI Sta 51+23.689	PI Sta 51+76.787
$\Delta = 30^\circ 50' 16.4''$ (LT)	$\Delta = 16^\circ 35' 28.4''$ (LT)	$\Theta_s = 7^\circ 28' 24.1''$
$L = 129.173$	$L = 66.601$	$L_s = 60.000$
$T = 66.192$	$T = 33.535$	$LT = 40.036$
$R = 240.000$	$R = 230.000$	$ST = 20.032$

-Y4DET-		
PI Sta 14+76.827	PI Sta 16+17.678	
$\Delta = 31^\circ 48' 13.9''$ (RT)	$\Delta = 15^\circ 46' 15.3''$ (LT)	
$L = 147.097$	$L = 137.627$	
$T = 75.497$	$T = 69.251$	
$R = 265.000$	$R = 500.000$	
$SE = 6\%$	$SE = 4\%$	

EQUATION:
 -L- POT 318+10.648 =
 -Y4- POT 13+99.751



SEE SHEET NO. 138 FOR LINE -Y4DET- GRADE AND PROFILE.
 SEE SHEET NOS 23 & 51 FOR LINE -Y4- PLAN.
 SEE SHEET NO. 23 FOR LINE -L- PLAN.
 SEE SHEET NO. 51 FOR LINE -Y8- PLAN.

*****SYSTEMS*****
 *****DESIGN*****
 *****REVISIONS*****

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