ARCADIS
G & M of North Carolina, Inc.
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Raleigh, NC 27607-5073
Tel: 919/854-1282 Fax: 919/854-5448

METRIC

5 0 10

CONST.REV.

R /W REV.

PROJECT REFERENCE NO.	SHEET NO.
R-2911A	35

ROADWAY DESIGN ENGINEER

NORTH CAROLINA PROFESSIONAL SEAL 028434 ENGINEER BRYON M. PALMER
3-12-04
SEAL NOT VALID UNLESS SIGNED AND DATED

HYDRAULICS ENGINEER

NORTH CAROLINA PROFESSIONAL SEAL 12786 ENGINEER STEVEN M. BONDOR
3-12-04
SEAL NOT VALID UNLESS SIGNED AND DATED

PVT 23+85.000 EL =275.879

PVC 24+85.000 EL =275.46

PI = 25+60.000
EL = 274.596
VC = 150 m
K = 54
90 km/h

-0.733%

-0.733%

-3.505%

600mm

PIPE HYDRAULIC DATA
DRAINAGE STRUCTURE NO.30

DRAINAGE AREA	= 1.2	HA
DESIGN FREQUENCY	= 50	YRS
DESIGN DISCHARGE	= 0.366	CMS
DESIGN HW ELEVATION	= 275.03	M
100 YEAR DISCHARGE	= .0396	CMS
100 YEAR HW ELEVATION	= 275.06	M
OVERTOPPING FREQUENCY	= 500+	YRS
OVERTOPPING DISCHARGE	= 0.72	CMS
OVERTOPPING ELEVATION	= 275.50	M

-L-

SEE SHEET 8 FOR -L- PLAN

Sta 26+39.82 -L-
Sta 125+N3.14 -Y1-

PVT 26+35.000
EL =271.360

TBM5 RR SPIKE IN 300MM OAK TREE
STA 27+66.439 -L- 240.783m RT. EL =261.965

Sta 28+98.82 -L-
Sta 129+00.000 -Y4-
EL =263.314

-L-

SEE SHEET 9 FOR -L- PLAN

ARCADIS G&M
Date:3/12/2004 Time: 8:09:41 AM
Filename:r:\roadway\proj\r-2911a_rdy_pfl-s35.dgn