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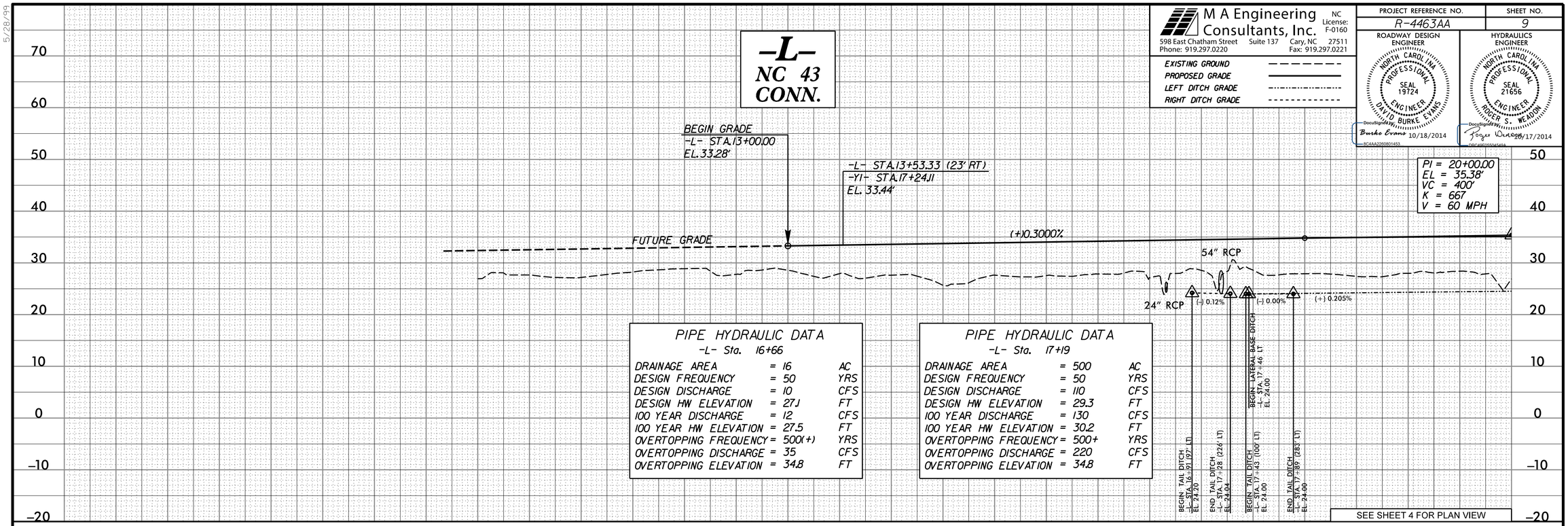
M A Engineering Consultants, Inc.
NC License: F-0160
598 East Chatham Street Suite 137 Cary, NC 27511
Phone: 919.297.0220 Fax: 919.297.0221

PROJECT REFERENCE NO.	SHEET NO.
R-4463AA	9

ROADWAY DESIGN ENGINEER
NORTH CAROLINA PROFESSIONAL SEAL 19724 ENGINEER DAVID BURKE EVANS
DocuSigned by: Burke Evans 10/18/2014
BC4AA2260801453

HYDRAULICS ENGINEER
NORTH CAROLINA PROFESSIONAL SEAL 21656 ENGINEER ROGER S. WEADON
DocuSigned by: Roger Weadon 10/17/2014
C8C49E7050A5484...

EXISTING GROUND
PROPOSED GRADE
LEFT DITCH GRADE
RIGHT DITCH GRADE

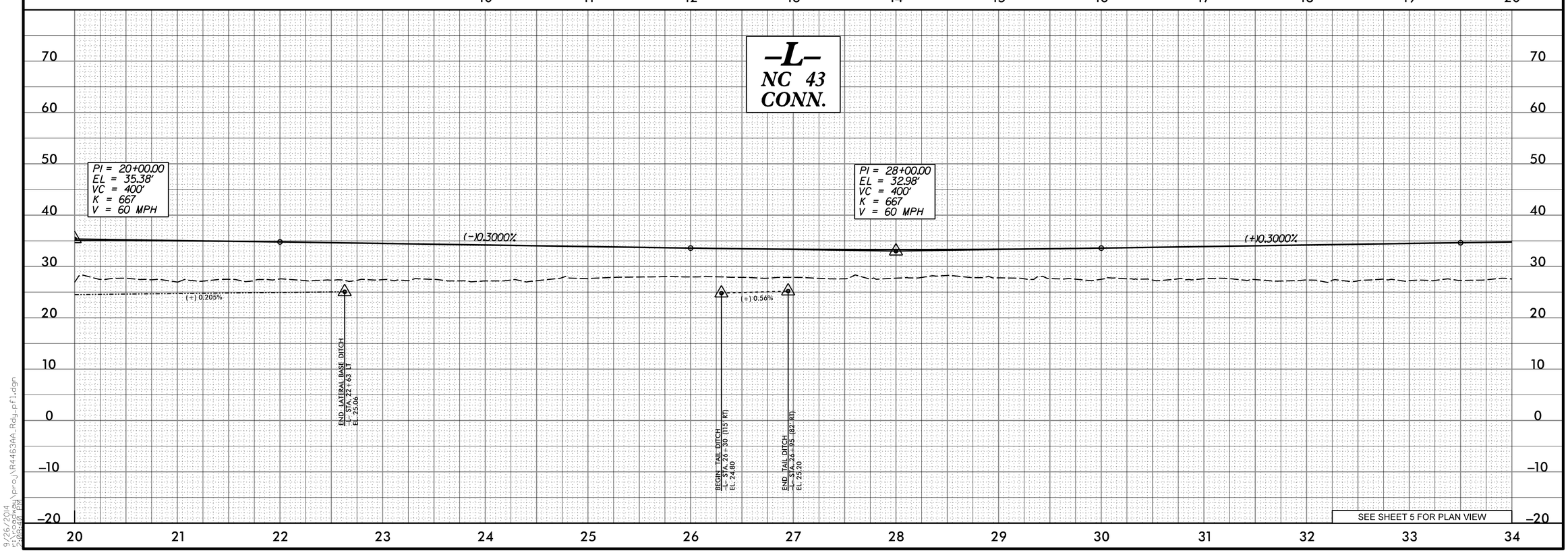


PIPE HYDRAULIC DATA
-L- Sta. 16+66

DRAINAGE AREA	= 16	AC
DESIGN FREQUENCY	= 50	YRS
DESIGN DISCHARGE	= 10	CFS
DESIGN HW ELEVATION	= 27.1	FT
100 YEAR DISCHARGE	= 12	CFS
100 YEAR HW ELEVATION	= 27.5	FT
OVERTOPPING FREQUENCY	= 500(+)	YRS
OVERTOPPING DISCHARGE	= 35	CFS
OVERTOPPING ELEVATION	= 34.8	FT

PIPE HYDRAULIC DATA
-L- Sta. 17+19

DRAINAGE AREA	= 500	AC
DESIGN FREQUENCY	= 50	YRS
DESIGN DISCHARGE	= 110	CFS
DESIGN HW ELEVATION	= 29.3	FT
100 YEAR DISCHARGE	= 130	CFS
100 YEAR HW ELEVATION	= 30.2	FT
OVERTOPPING FREQUENCY	= 500+	YRS
OVERTOPPING DISCHARGE	= 220	CFS
OVERTOPPING ELEVATION	= 34.8	FT



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