

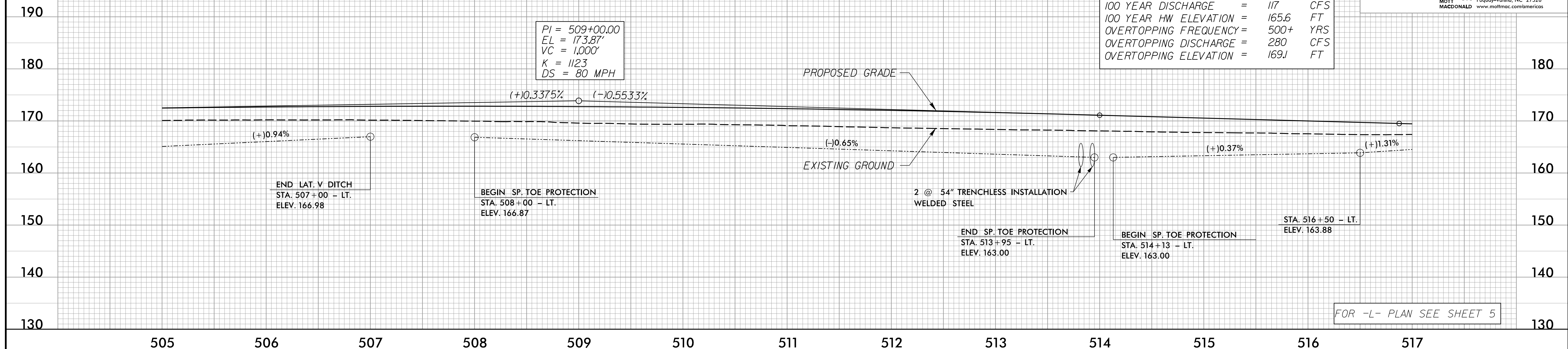
5/14/99

PROJECT REFERENCE NO. 1-5987B	SHEET NO. 49
ROADWAY DESIGN ENGINEER MOTT MACDONALD I & E, LLC LICENSE NO. F-0669	HYDRAULICS ENGINEER MOTT MACDONALD I & E, LLC LICENSE NO. F-0669
<p><b>DOCUMENT NOT CONSIDERED FINAL</b> <b>UNLESS ALL SIGNATURES COMPLETED</b></p> <p>Prepared in the Office of: <b>M</b> MOTT MACDONALD I &amp; E, LLC 7621 Purfoy Rd., Suite 115 Fuquay-Varina, NC 27526 www.mottmac.com/americas</p>	

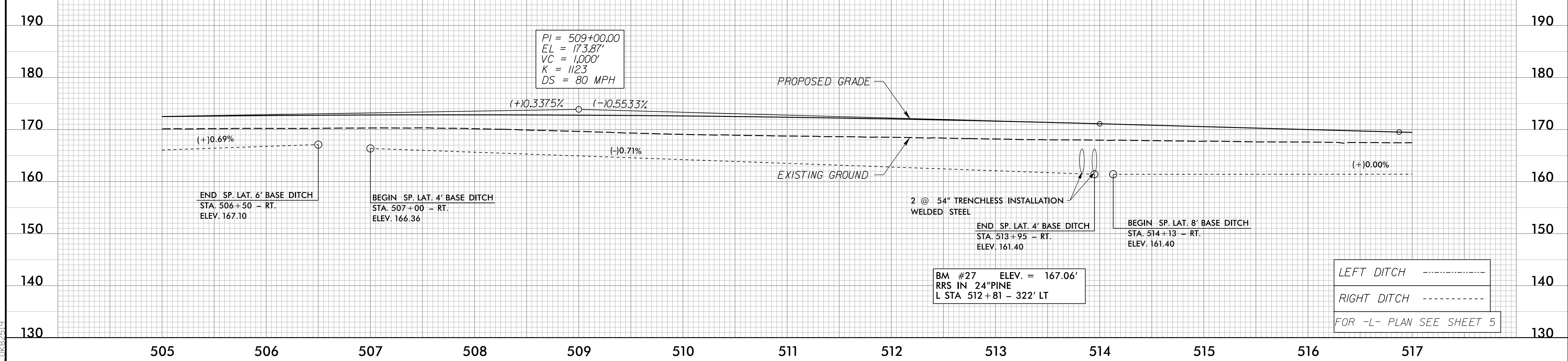
**PIPE HYDRAULIC DATA**  
2 @ 54" Trenchless Installation Welded Steel  
Sta. 513+90 -L-

DRAINAGE AREA	=	84.4	AC
DESIGN FREQUENCY	=	100	YRS
DESIGN DISCHARGE	=	117	CFS
DESIGN HW ELEVATION	=	165.6	FT
100 YEAR DISCHARGE	=	117	CFS
100 YEAR HW ELEVATION	=	165.6	FT
OVERTOPPING FREQUENCY	=	500+	YRS
OVERTOPPING DISCHARGE	=	280	CFS
OVERTOPPING ELEVATION	=	169.1	FT

### -L\_SB-



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4/18/2002  
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