

5/28/99

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LOCHNER
 H. W. LOCHNER, INC.
 2840 PLAZA PLACE, SUITE 202
 RALEIGH, NC 27612
 (919)571-7111
 NC License Number F-0159

HNTB
 343 E. SIX FORKS ROAD, SUITE 200
 RALEIGH, NC 27609
 NC License Number C-1554
 9/3/2016

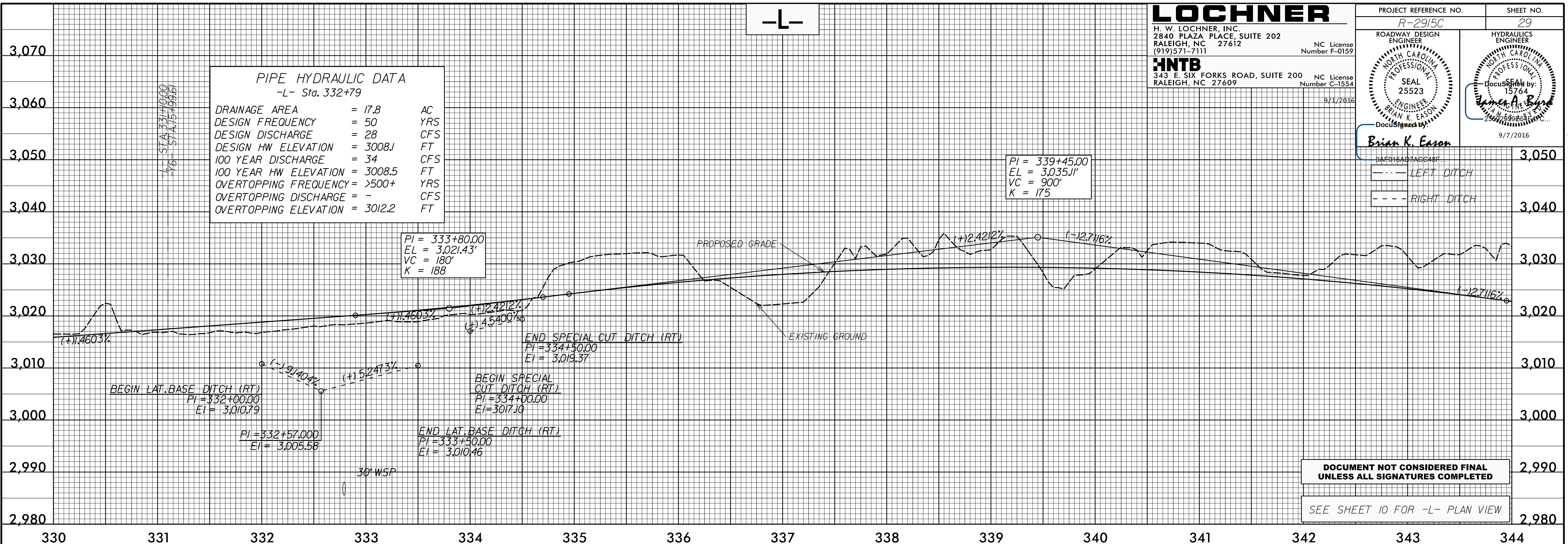
PROJECT REFERENCE NO. **R-2915C** SHEET NO. **29**

ROADWAY DESIGN ENGINEER
 H. W. LOCHNER, INC.
 SEAL 25523
 ENGINEER
 BRIAN K. EASON
 DocuSigned by:
Brian K. Eason
 9/7/2016

HYDRAULICS ENGINEER
 H. W. LOCHNER, INC.
 SEAL 15764
 PROFESSIONAL ENGINEER
 JAMES A. BIRD
 DocuSigned by:
James A. Bird
 9/7/2016

PIPE HYDRAULIC DATA
 -L- Sta. 332+79

DRAINAGE AREA	= 17.8	AC
DESIGN FREQUENCY	= 50	YRS
DESIGN DISCHARGE	= 28	CFS
DESIGN HW ELEVATION	= 3008.1	FT
100 YEAR DISCHARGE	= 34	CFS
100 YEAR HW ELEVATION	= 3008.5	FT
OVERTOPPING FREQUENCY	= >500+	YRS
OVERTOPPING DISCHARGE	= -	CFS
OVERTOPPING ELEVATION	= 3012.2	FT



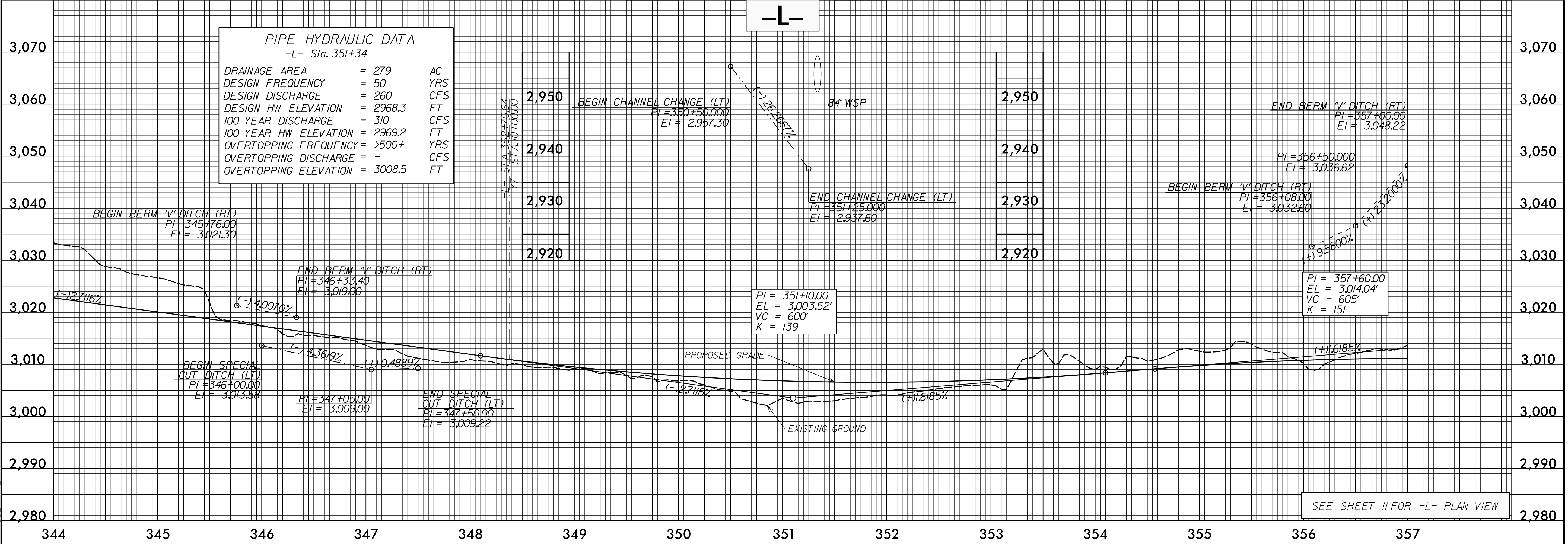
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

SEE SHEET 10 FOR -L- PLAN VIEW

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PIPE HYDRAULIC DATA
 -L- Sta. 351+34

DRAINAGE AREA	= 279	AC
DESIGN FREQUENCY	= 50	YRS
DESIGN DISCHARGE	= 260	CFS
DESIGN HW ELEVATION	= 2968.3	FT
100 YEAR DISCHARGE	= 310	CFS
100 YEAR HW ELEVATION	= 2969.2	FT
OVERTOPPING FREQUENCY	= >500+	YRS
OVERTOPPING DISCHARGE	= -	CFS
OVERTOPPING ELEVATION	= 3008.5	FT



SEE SHEET 11 FOR -L- PLAN VIEW

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