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LOCHNER

H. W. LOCHNER, INC.
2840 PLAZA PLACE, SUITE 202
RALEIGH, NC 27612
NC License Number F-0159

ECOLOGICAL ENGINEERING, LLP
1151 SE CARY PARKWAY
CARY, NC 27518
NC License Number F-1148

PROJECT REFERENCE NO.	SHEET NO.
R-5523	7

ROADWAY DESIGN ENGINEER
NORTH CAROLINA PROFESSIONAL SEAL 25523 ENGINEER
DOCUSIGNED BY: BRIAN K. REASON
9AF015AD7ACC48F...
7/28/2014

HYDRAULICS ENGINEER
NORTH CAROLINA PROFESSIONAL SEAL 20147 ENGINEER
DocuSigned by: Frank T. Efirong
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7/28/2014

-L-

PIPE HYDRAULIC DATA
24" RCP-III Sta. 12+82 -L-

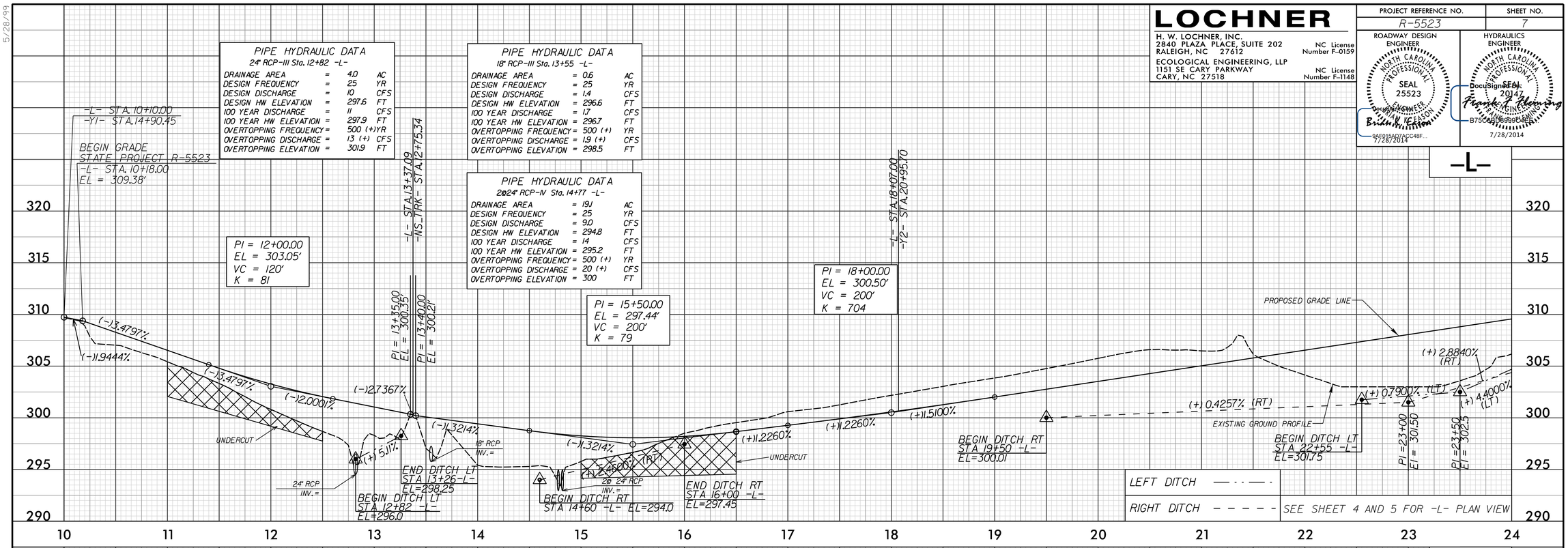
DRAINAGE AREA	=	4.0	AC
DESIGN FREQUENCY	=	25	YR
DESIGN DISCHARGE	=	10	CFS
DESIGN HW ELEVATION	=	297.6	FT
100 YEAR DISCHARGE	=	11	CFS
100 YEAR HW ELEVATION	=	297.9	FT
OVERTOPPING FREQUENCY	=	500 (+)	YR
OVERTOPPING DISCHARGE	=	13 (+)	CFS
OVERTOPPING ELEVATION	=	301.9	FT

PIPE HYDRAULIC DATA
18" RCP-III Sta. 13+55 -L-

DRAINAGE AREA	=	0.6	AC
DESIGN FREQUENCY	=	25	YR
DESIGN DISCHARGE	=	1.4	CFS
DESIGN HW ELEVATION	=	296.6	FT
100 YEAR DISCHARGE	=	1.7	CFS
100 YEAR HW ELEVATION	=	296.7	FT
OVERTOPPING FREQUENCY	=	500 (+)	YR
OVERTOPPING DISCHARGE	=	1.9 (+)	CFS
OVERTOPPING ELEVATION	=	298.5	FT

PIPE HYDRAULIC DATA
2@24" RCP-IV Sta. 14+77 -L-

DRAINAGE AREA	=	19.1	AC
DESIGN FREQUENCY	=	25	YR
DESIGN DISCHARGE	=	9.0	CFS
DESIGN HW ELEVATION	=	294.8	FT
100 YEAR DISCHARGE	=	14	CFS
100 YEAR HW ELEVATION	=	295.2	FT
OVERTOPPING FREQUENCY	=	500 (+)	YR
OVERTOPPING DISCHARGE	=	20 (+)	CFS
OVERTOPPING ELEVATION	=	300	FT



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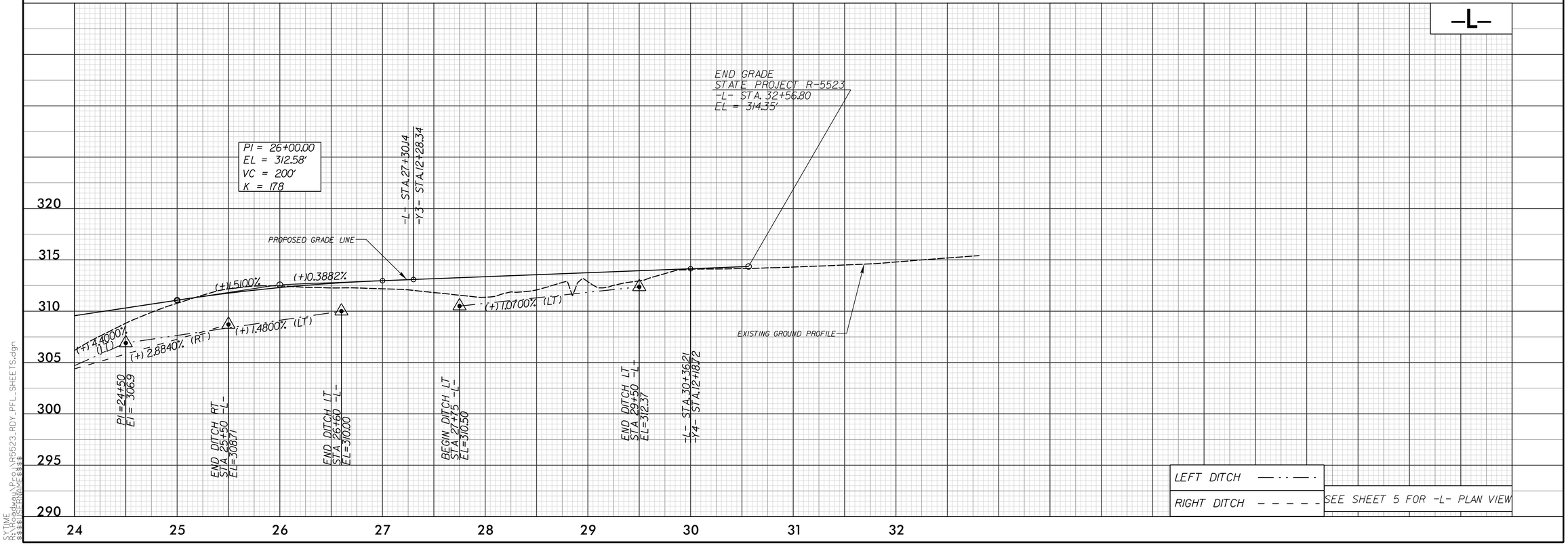

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