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5/28/99

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C & M of North Carolina, Inc.
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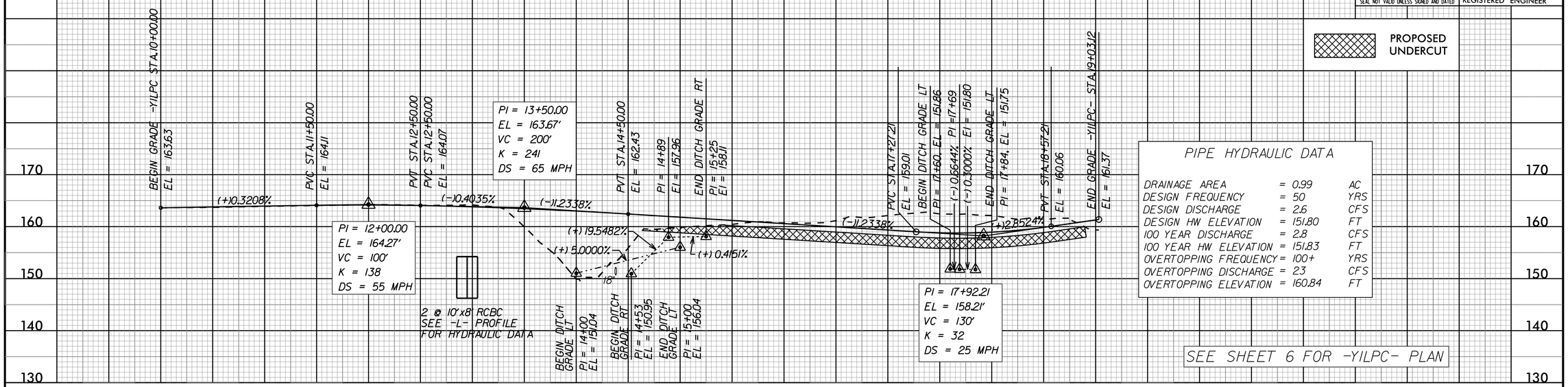
WSP
Transportation & Infrastructure
15401 Weston Parkway Suite 100
Cary, NC 27513 - 919.678.0035
www.wspsells.com
LICENSE NO. F-0891

PROJECT REFERENCE NO.	SHEET NO.
W-5107	21

ROADWAY DESIGN ENGINEER
NORTH CAROLINA PROFESSIONAL SEAL 022037 ENGINEER STEPHEN T. SMALLWOOD
11/12/2014
SEAL NOT VALID UNLESS SIGNED AND DATED

HYDRAULICS ENGINEER
NORTH CAROLINA PROFESSIONAL SEAL 26306 ENGINEER DAVID M. PASSMORE
11/12/2014
REGISTERED ENGINEER

-Y1LPC-



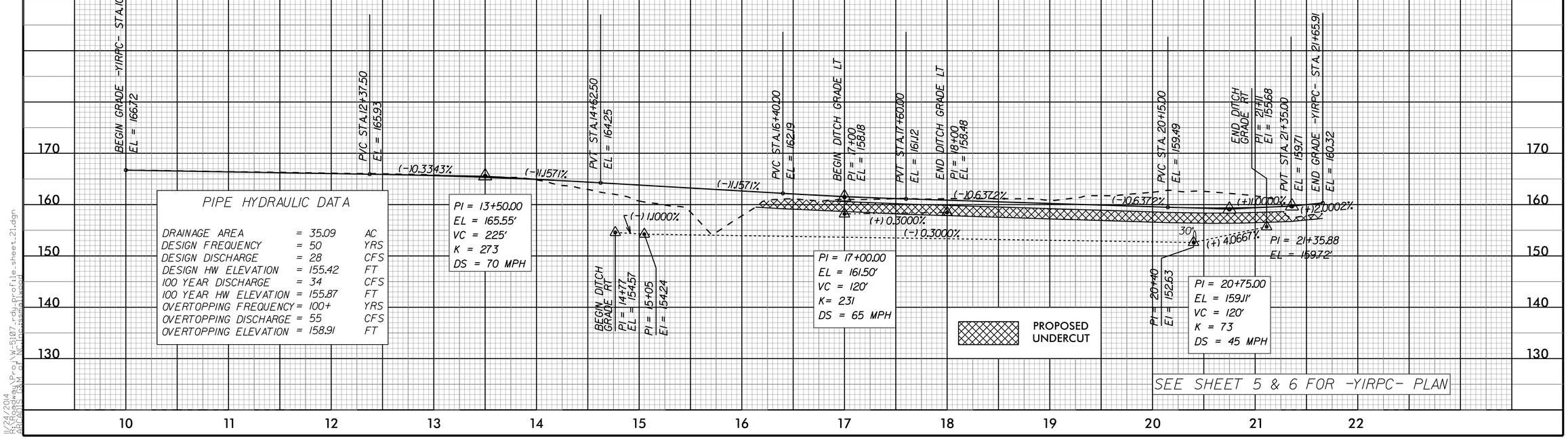
PROPOSED UNDERCUT

PIPE HYDRAULIC DATA

DRAINAGE AREA	= 0.99	AC
DESIGN FREQUENCY	= 50	YRS
DESIGN DISCHARGE	= 2.6	CFS
DESIGN HW ELEVATION	= 151.80	FT
100 YEAR DISCHARGE	= 2.8	CFS
100 YEAR HW ELEVATION	= 151.83	FT
OVERTOPPING FREQUENCY	= 100+	YRS
OVERTOPPING DISCHARGE	= 23	CFS
OVERTOPPING ELEVATION	= 160.84	FT

SEE SHEET 6 FOR -Y1LPC- PLAN

-Y1RPC-



PIPE HYDRAULIC DATA

DRAINAGE AREA	= 35.09	AC
DESIGN FREQUENCY	= 50	YRS
DESIGN DISCHARGE	= 28	CFS
DESIGN HW ELEVATION	= 155.42	FT
100 YEAR DISCHARGE	= 34	CFS
100 YEAR HW ELEVATION	= 155.87	FT
OVERTOPPING FREQUENCY	= 100+	YRS
OVERTOPPING DISCHARGE	= 55	CFS
OVERTOPPING ELEVATION	= 158.91	FT

PROPOSED UNDERCUT

SEE SHEET 5 & 6 FOR -Y1RPC- PLAN

11/24/2014
11:19:24
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