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5/28/99

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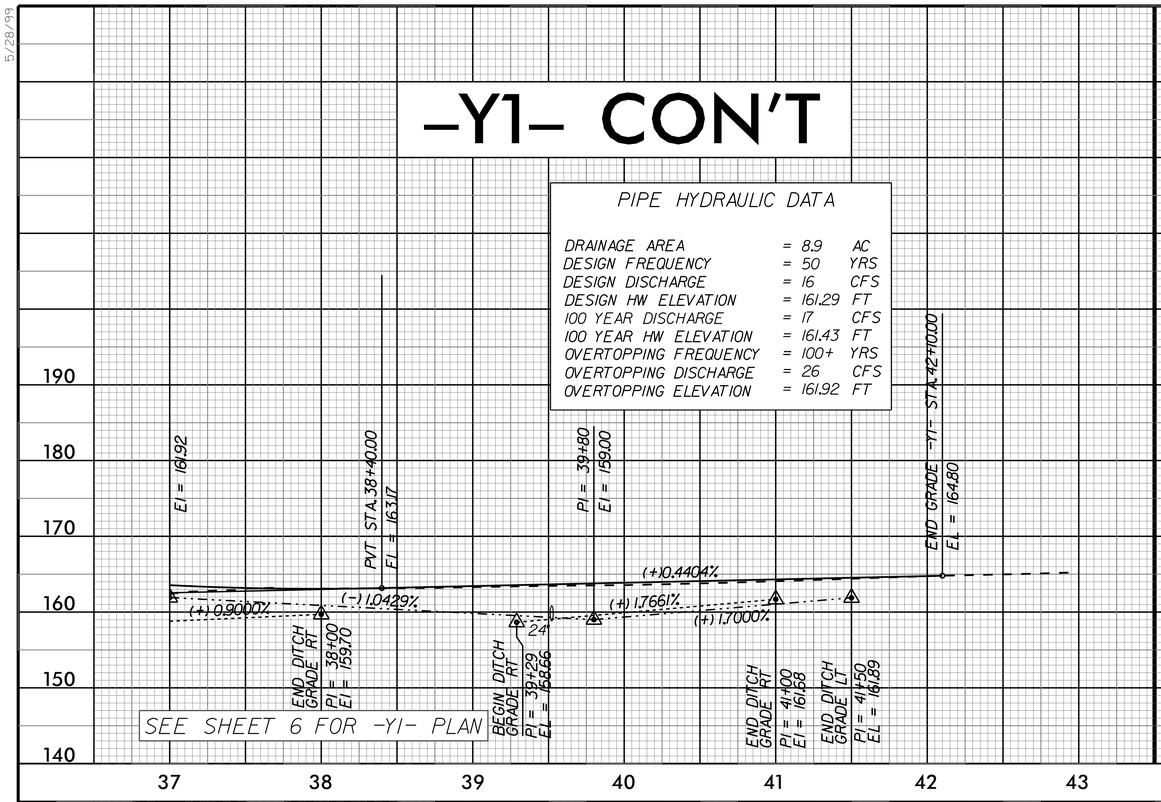
WSP
Transportation & Infrastructure
15401 Weston Parkway Suite 100
Cary, NC 27513 - 919.678.0035
www.wspsells.com
LICENSE NO. F-0891

PROJECT REFERENCE NO.	SHEET NO.
W-5107	20

ROADWAY DESIGN ENGINEER
NORTH CAROLINA PROFESSIONAL SEAL 022031 ENGINEER STEPHEN T. SMALLWOOD
SEAL NOT VALID UNLESS SIGNED AND DATED

HYDRAULICS ENGINEER
NORTH CAROLINA PROFESSIONAL SEAL 26306 ENGINEER DAVID M. PASSMORE
REGISTERED ENGINEER

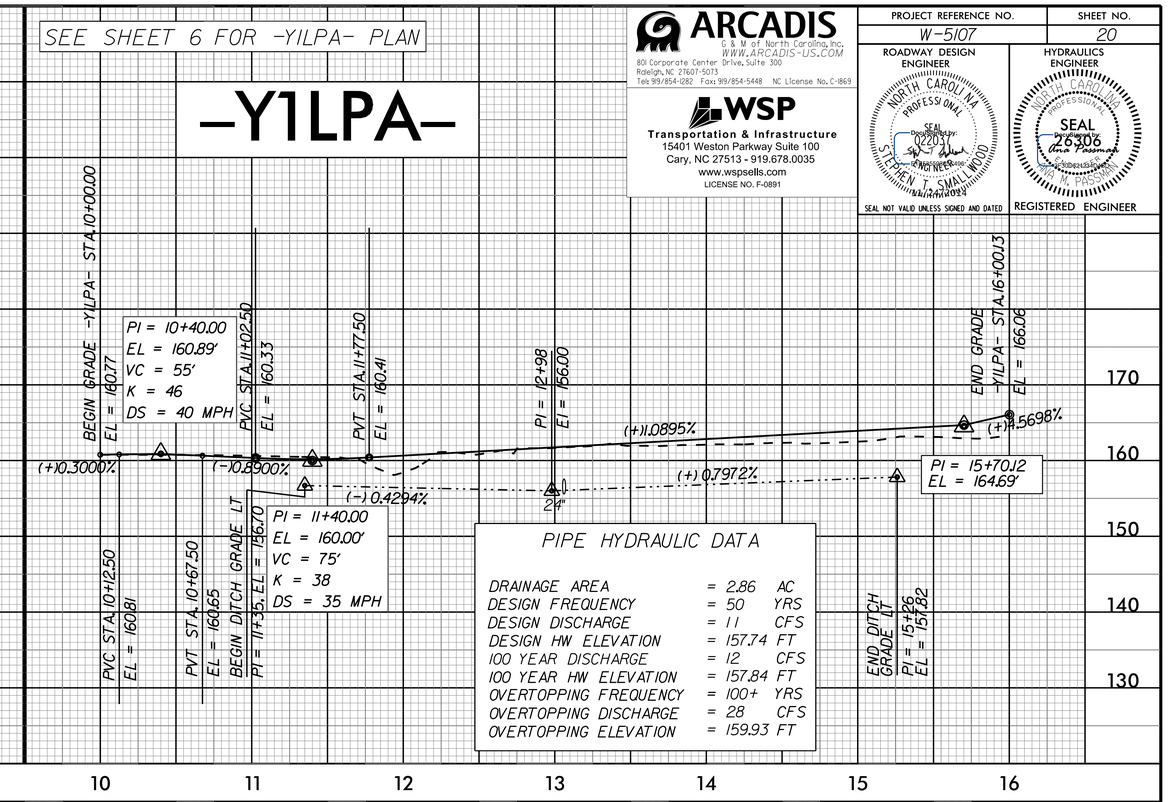
-Y1- CON'T



PIPE HYDRAULIC DATA

DRAINAGE AREA	= 8.9	AC
DESIGN FREQUENCY	= 50	YRS
DESIGN DISCHARGE	= 16	CFS
DESIGN HW ELEVATION	= 161.29	FT
100 YEAR DISCHARGE	= 17	CFS
100 YEAR HW ELEVATION	= 161.43	FT
OVERTOPPING FREQUENCY	= 100+	YRS
OVERTOPPING DISCHARGE	= 26	CFS
OVERTOPPING ELEVATION	= 161.92	FT

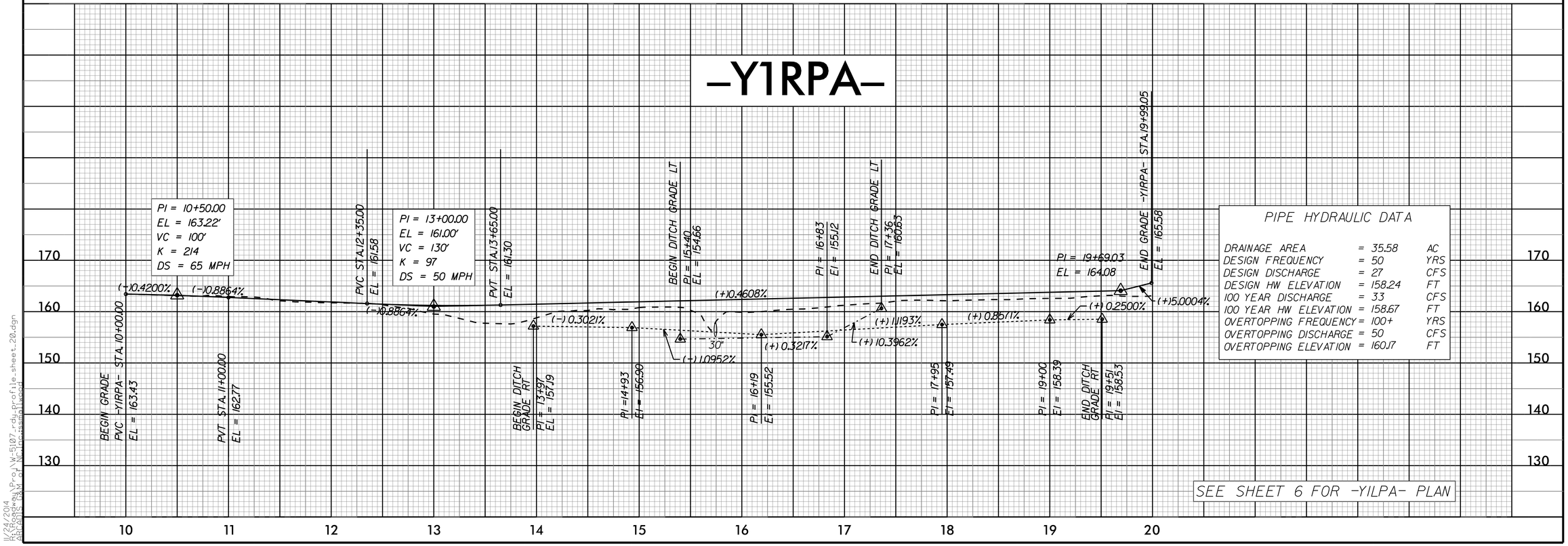
-Y1LPA-



PIPE HYDRAULIC DATA

DRAINAGE AREA	= 2.86	AC
DESIGN FREQUENCY	= 50	YRS
DESIGN DISCHARGE	= 11	CFS
DESIGN HW ELEVATION	= 157.74	FT
100 YEAR DISCHARGE	= 12	CFS
100 YEAR HW ELEVATION	= 157.84	FT
OVERTOPPING FREQUENCY	= 100+	YRS
OVERTOPPING DISCHARGE	= 28	CFS
OVERTOPPING ELEVATION	= 159.93	FT

-Y1RPA-



PIPE HYDRAULIC DATA

DRAINAGE AREA	= 35.58	AC
DESIGN FREQUENCY	= 50	YRS
DESIGN DISCHARGE	= 27	CFS
DESIGN HW ELEVATION	= 158.24	FT
100 YEAR DISCHARGE	= 33	CFS
100 YEAR HW ELEVATION	= 158.67	FT
OVERTOPPING FREQUENCY	= 100+	YRS
OVERTOPPING DISCHARGE	= 50	CFS
OVERTOPPING ELEVATION	= 160.17	FT

SEE SHEET 6 FOR -YILPA- PLAN

1/24/2014
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ARCADIS C&M of NC, Inc. - stephenwood