DocuSign Envelope ID: 55F7BF8B-9DAA-4D23-9D82-C07D79675971

5/28/99

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C & M of North Carolina, Inc.
WWW.ARCADIS-US.COM
801 Corporate Center Drive, Suite 300
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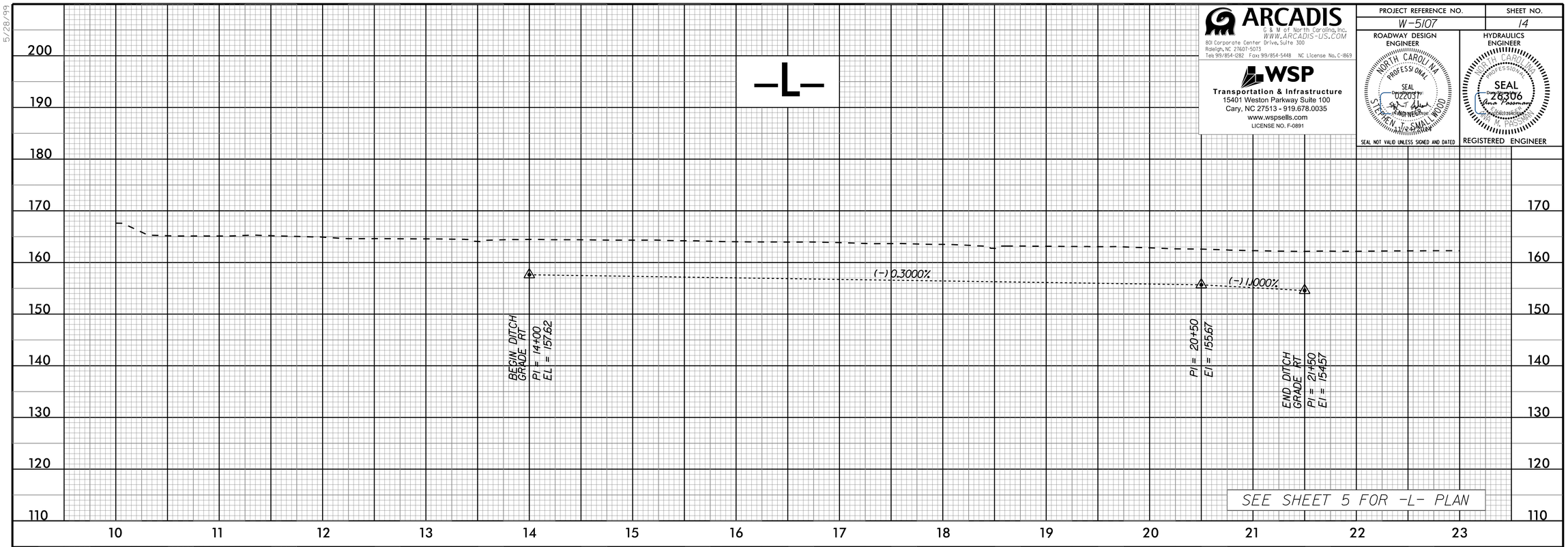
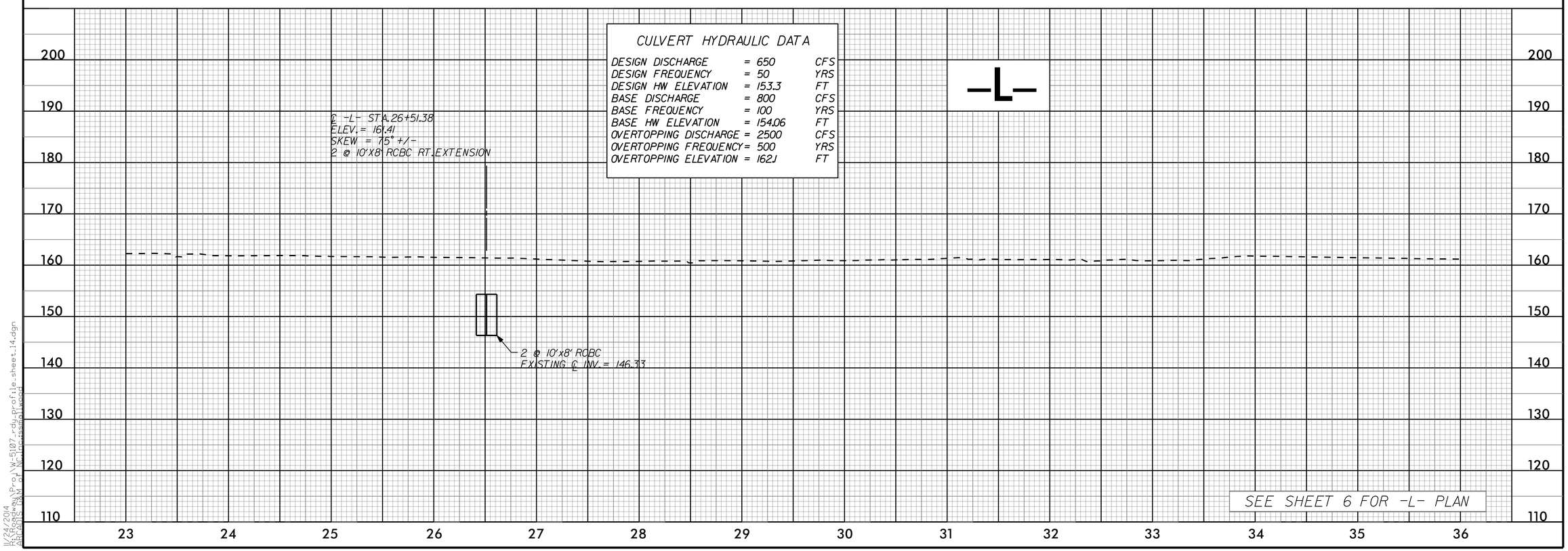
WSP
Transportation & Infrastructure
15401 Weston Parkway Suite 100
Cary, NC 27513 - 919.678.0035
www.wspsells.com
LICENSE NO. F-0891

PROJECT REFERENCE NO.	SHEET NO.
W-5107	14

ROADWAY DESIGN ENGINEER
NORTH CAROLINA PROFESSIONAL SEAL 022037 ENGINEER STEPHEN T. SMALLWOOD
Digitally signed by Stephen T. Smallwood
SEAL NOT VALID UNLESS SIGNED AND DATED

HYDRAULICS ENGINEER
NORTH CAROLINA PROFESSIONAL SEAL 26306 ENGINEER DAVID M. PASSMORE
Digitally signed by David M. Passmore
REGISTERED ENGINEER





CULVERT HYDRAULIC DATA

DESIGN DISCHARGE	=	650	CFS
DESIGN FREQUENCY	=	50	YRS
DESIGN HW ELEVATION	=	153.3	FT
BASE DISCHARGE	=	800	CFS
BASE FREQUENCY	=	100	YRS
BASE HW ELEVATION	=	154.06	FT
OVERTOPPING DISCHARGE	=	2500	CFS
OVERTOPPING FREQUENCY	=	500	YRS
OVERTOPPING ELEVATION	=	162.1	FT

1/24/2014
10:29:04 AM
ARCADIS C&M of NC, Inc. - stephen.smallwood
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