DocuSign Envelope ID: BD04A6F0-193C-4758-B1A2-A87F8B7C208F

5/28/99

PROJECT REFERENCE NO.	SHEET NO.
U-3615B	21

WETHERILL ENGINEERING
559 Jones Franklin Rd. Suite 164
Raleigh, N.C. 27606
License No. F-0377
Bus: 919 851 8077
Fax: 919 851 8107
TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN
CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

ROADWAY DESIGN ENGINEER
NORTH CAROLINA PROFESSIONAL SEAL 022999 ENGINEER GREG S. PURVIS

HYDRAULICS ENGINEER
NORTH CAROLINA PROFESSIONAL SEAL 012575 ENGINEER Paul F. Fisher

PIPE HYDRAULIC DATA

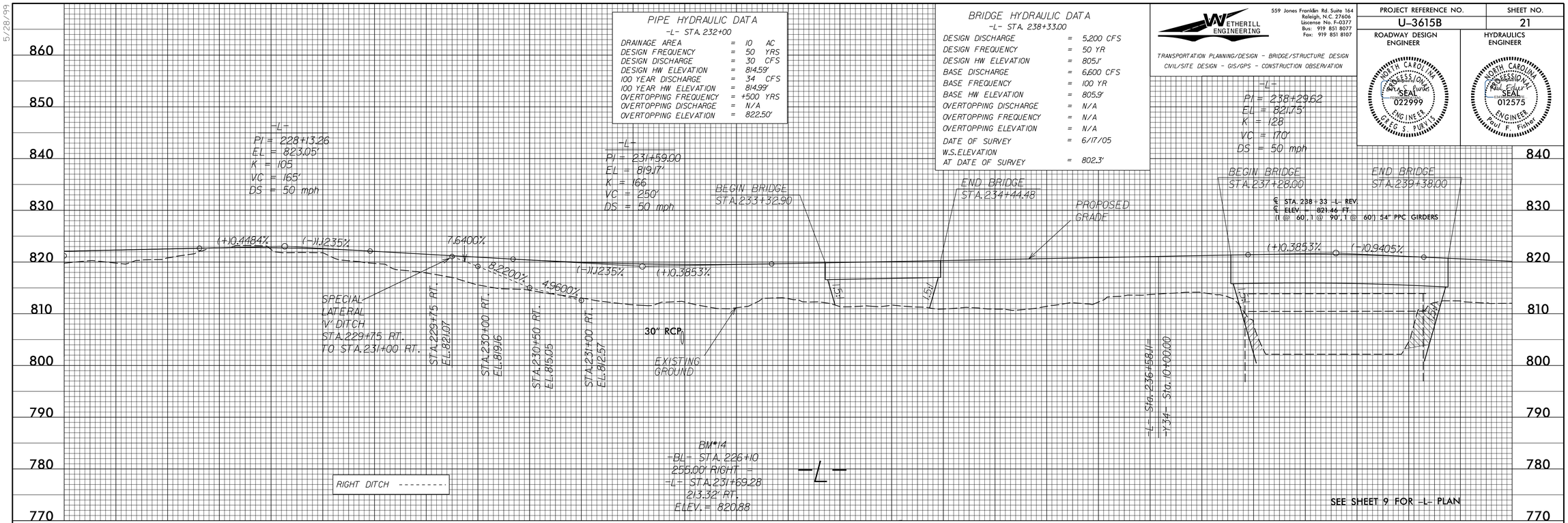
-L- STA. 232+00

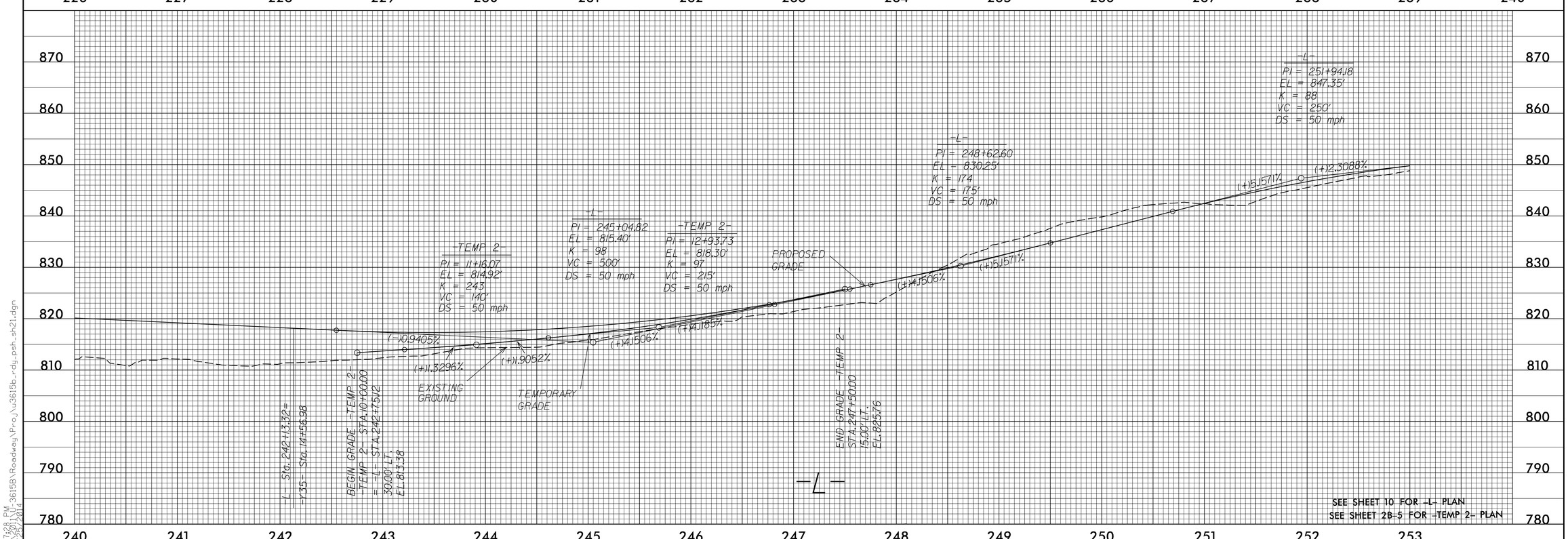
DRAINAGE AREA	=	10 AC
DESIGN FREQUENCY	=	50 YRS
DESIGN DISCHARGE	=	30 CFS
DESIGN HW ELEVATION	=	814.59'
100 YEAR DISCHARGE	=	34 CFS
100 YEAR HW ELEVATION	=	814.99'
OVERTOPPING FREQUENCY	=	+500 YRS
OVERTOPPING DISCHARGE	=	N/A
OVERTOPPING ELEVATION	=	822.50'

BRIDGE HYDRAULIC DATA

-L- STA. 238+33.00

DESIGN DISCHARGE	=	5,200 CFS
DESIGN FREQUENCY	=	50 YR
DESIGN HW ELEVATION	=	805.1'
BASE DISCHARGE	=	6,600 CFS
BASE FREQUENCY	=	100 YR
BASE HW ELEVATION	=	805.9'
OVERTOPPING DISCHARGE	=	N/A
OVERTOPPING FREQUENCY	=	N/A
OVERTOPPING ELEVATION	=	N/A
DATE OF SURVEY	=	6/17/05
W.S.ELEVATION AT DATE OF SURVEY	=	802.3'





2:17:28 PM
B:\3615B\Roadway\Proj\3615b_rdy_psh_sh21.dgn
9/25/2014