

5/28/99

-L- SB

ETHERILL ENGINEERING
 1223 Jones Franklin Rd.
 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

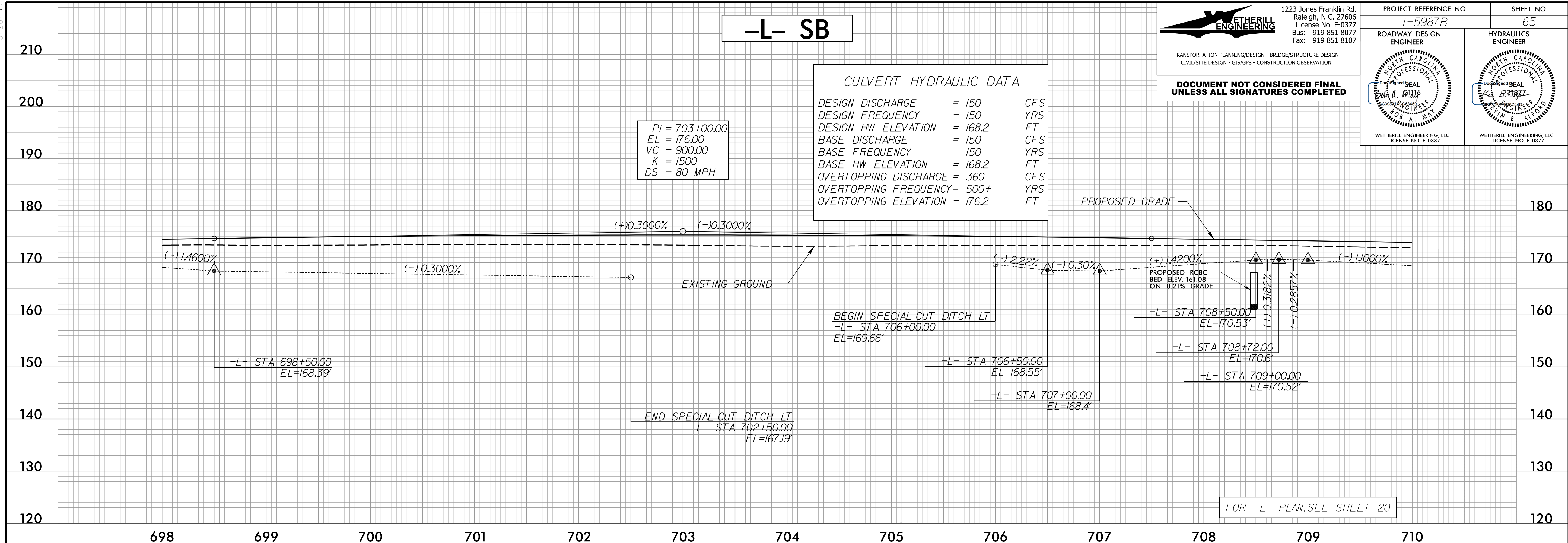
**DOCUMENT NOT CONSIDERED FINAL
 UNLESS ALL SIGNATURES COMPLETED**

PROJECT REFERENCE NO. <i>1-5987B</i>	SHEET NO. <i>65</i>
ROADWAY DESIGN ENGINEER <i>[Signature]</i>	HYDRAULICS ENGINEER <i>[Signature]</i>
WETHERILL ENGINEERING, LLC LICENSE NO. F-0337	WETHERILL ENGINEERING, LLC LICENSE NO. F-0377

CULVERT HYDRAULIC DATA

DESIGN DISCHARGE	= 150	CFS
DESIGN FREQUENCY	= 150	YRS
DESIGN HW ELEVATION	= 168.2	FT
BASE DISCHARGE	= 150	CFS
BASE FREQUENCY	= 150	YRS
BASE HW ELEVATION	= 168.2	FT
OVERTOPPING DISCHARGE	= 360	CFS
OVERTOPPING FREQUENCY	= 500+	YRS
OVERTOPPING ELEVATION	= 176.2	FT

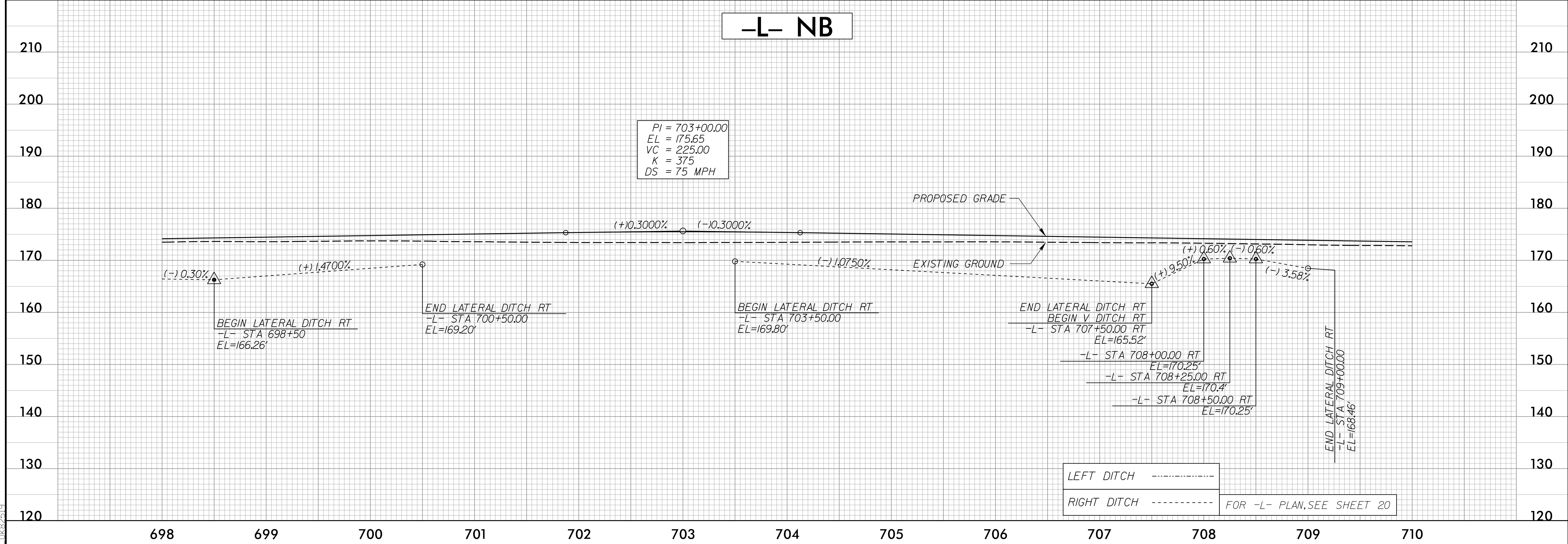
PI = 703+00.00
 EL = 176.00
 VC = 900.00
 K = 1500
 DS = 80 MPH



FOR -L- PLAN, SEE SHEET 20

-L- NB

PI = 703+00.00
 EL = 175.65
 VC = 225.00
 K = 375
 DS = 75 MPH



LEFT DITCH -----
 RIGHT DITCH -----

FOR -L- PLAN, SEE SHEET 20

4/16/2002
 F:\Projects\5987B\Proj\5987B_rdy_psh_65_p1.dgn