

5/28/17



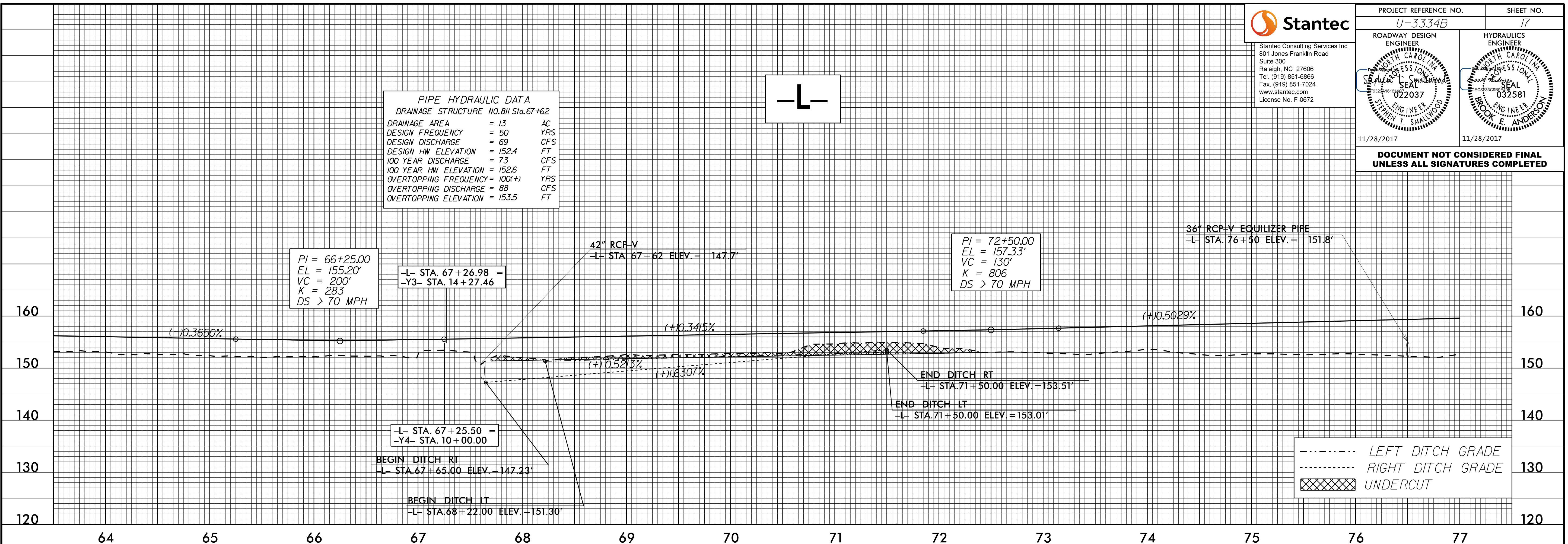
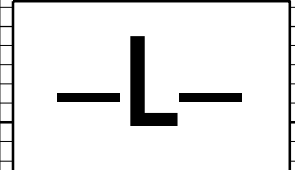
Stantec Consulting Services Inc.
801 Jones Franklin Road
Suite 300
Raleigh, NC 27606
Tel. (919) 851-6866
Fax. (919) 851-7024
www.stantec.com
License No. F-0672

PROJECT REFERENCE NO. U-3334B	SHEET NO. 17
ROADWAY DESIGN ENGINEER SEAL 11/28/2017	HYDRAULICS ENGINEER SEAL 11/28/2017

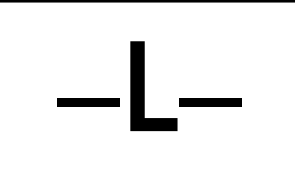
**DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED**

PIPE HYDRAULIC DATA
DRAINAGE STRUCTURE NO. 811 Sta. 67+62

DRAINAGE AREA	= 13	AC
DESIGN FREQUENCY	= 50	YRS
DESIGN DISCHARGE	= 69	CFS
DESIGN HW ELEVATION	= 152.4	FT
100 YEAR DISCHARGE	= 73	CFS
100 YEAR HW ELEVATION	= 152.6	FT
OVERTOPPING FREQUENCY	= 100(+)	YRS
OVERTOPPING DISCHARGE	= 88	CFS
OVERTOPPING ELEVATION	= 153.5	FT

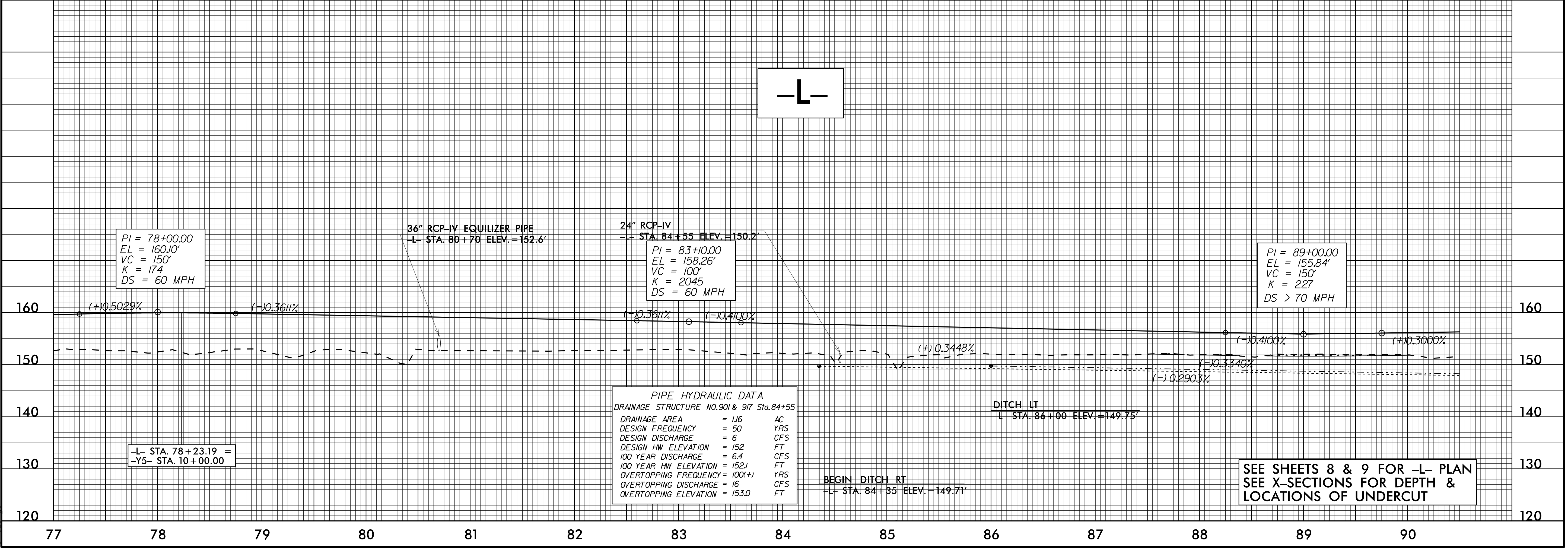


--- LEFT DITCH GRADE
 - - - - - RIGHT DITCH GRADE
 [Hatched] UNDERCUT



PIPE HYDRAULIC DATA
DRAINAGE STRUCTURE NO. 901 & 917 Sta. 84+55

DRAINAGE AREA	= 116	AC
DESIGN FREQUENCY	= 50	YRS
DESIGN DISCHARGE	= 6	CFS
DESIGN HW ELEVATION	= 152	FT
100 YEAR DISCHARGE	= 6.4	CFS
100 YEAR HW ELEVATION	= 152.1	FT
OVERTOPPING FREQUENCY	= 100(+)	YRS
OVERTOPPING DISCHARGE	= 16	CFS
OVERTOPPING ELEVATION	= 153.0	FT



SEE SHEETS 8 & 9 FOR -L- PLAN
SEE X-SECTIONS FOR DEPTH &
LOCATIONS OF UNDERCUT

11/21/2017
Us:\Roadway\pcoj\U3334B_r-dj-ef1s17.dgn