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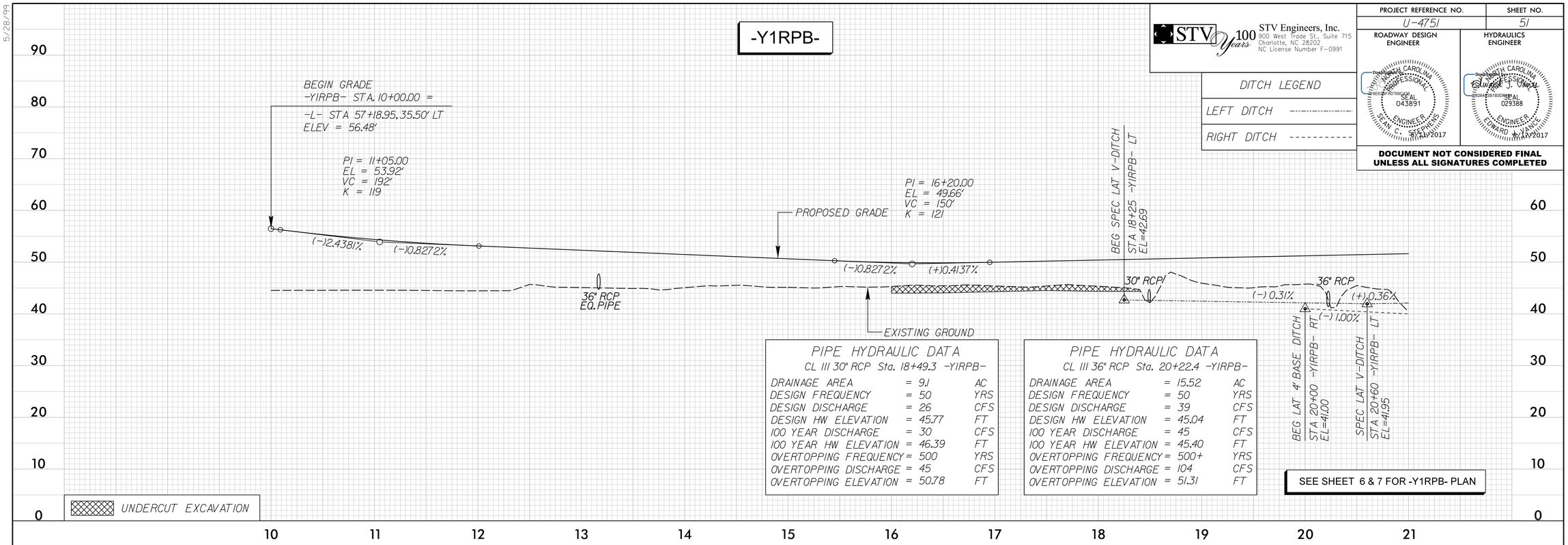
PROJECT REFERENCE NO.	SHEET NO.
U-4751	51

STV 100 Years — STV Engineers, Inc. 900 West Trade St., Suite 715 Charlotte, NC 28202 NC License Number F-0991

ROADWAY DESIGN ENGINEER — NORTH CAROLINA PROFESSIONAL SEAL 043891 ENGINEER SEAN C. STEPHENS 8/11/2017

HYDRAULICS ENGINEER — NORTH CAROLINA PROFESSIONAL SEAL 029388 ENGINEER EDWARD J. VANCE 8/11/2017

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED



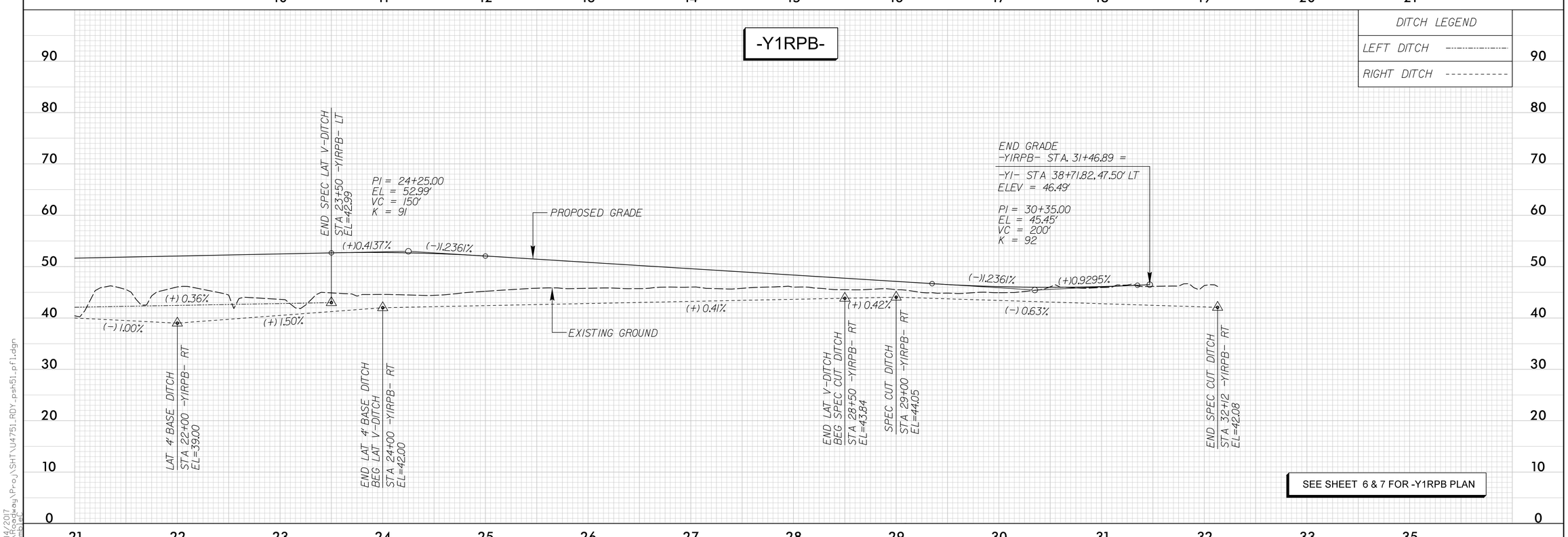
PIPE HYDRAULIC DATA
CL III 30" RCP Sta. 18+49.3 -Y1RPB-

DRAINAGE AREA	= 9.1	AC
DESIGN FREQUENCY	= 50	YRS
DESIGN DISCHARGE	= 26	CFS
DESIGN HW ELEVATION	= 45.77	FT
100 YEAR DISCHARGE	= 30	CFS
100 YEAR HW ELEVATION	= 46.39	FT
OVERTOPPING FREQUENCY	= 500	YRS
OVERTOPPING DISCHARGE	= 45	CFS
OVERTOPPING ELEVATION	= 50.78	FT

PIPE HYDRAULIC DATA
CL III 36" RCP Sta. 20+22.4 -Y1RPB-

DRAINAGE AREA	= 15.52	AC
DESIGN FREQUENCY	= 50	YRS
DESIGN DISCHARGE	= 39	CFS
DESIGN HW ELEVATION	= 45.04	FT
100 YEAR DISCHARGE	= 45	CFS
100 YEAR HW ELEVATION	= 45.40	FT
OVERTOPPING FREQUENCY	= 500+	YRS
OVERTOPPING DISCHARGE	= 104	CFS
OVERTOPPING ELEVATION	= 51.31	FT

SEE SHEET 6 & 7 FOR -Y1RPB- PLAN



SEE SHEET 6 & 7 FOR -Y1RPB PLAN

5/28/99
7/14/2017 R:\Roadway\Proj\SHT\U4751_RDY_psh51_pf1.dgn
GambleC