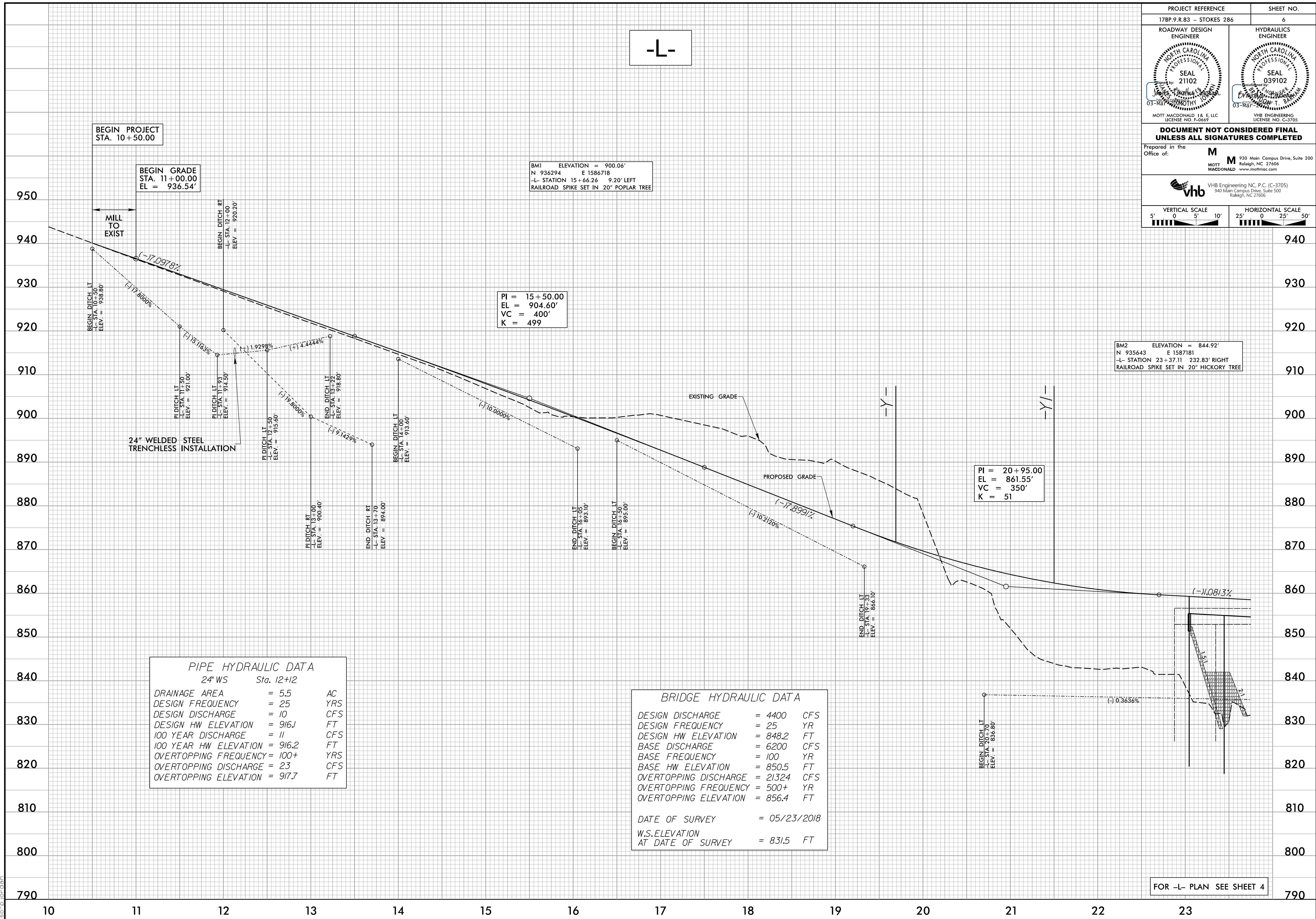


PROJECT REFERENCE		SHEET NO.	
17BP.9.R.83 - STOKES 286		6	
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED			
Prepared in the Office of:		M 930 Main Campus Drive, Suite 200 Raleigh, NC 27606 MOTT MACDONALD www.mottmac.com	
VHB Engineering NC, P.C. (C-3705) 940 Main Campus Drive, Suite 500 Raleigh, NC 27606			
VERTICAL SCALE		HORIZONTAL SCALE	

-L-



BM1 ELEVATION = 900.06'
 N 936294 E 1586718
 -L- STATION 15+66.26 9.20' LEFT
 RAILROAD SPIKE SET IN 20" POPLAR TREE

PI = 15+50.00
 EL = 904.60'
 VC = 400'
 K = 499

BM2 ELEVATION = 844.92'
 N 935643 E 1587181
 -L- STATION 23+37.11 232.83' RIGHT
 RAILROAD SPIKE SET IN 20" HICKORY TREE

PI = 20+95.00
 EL = 861.55'
 VC = 350'
 K = 51

PIPE HYDRAULIC DATA		
24" WS Sta. 12+12		
DRAINAGE AREA	= 5.5	AC
DESIGN FREQUENCY	= 25	YRS
DESIGN DISCHARGE	= 10	CFS
DESIGN HW ELEVATION	= 916.1	FT
100 YEAR DISCHARGE	= 11	CFS
100 YEAR HW ELEVATION	= 916.2	FT
OVERTOPPING FREQUENCY	= 100+	YRS
OVERTOPPING DISCHARGE	= 23	CFS
OVERTOPPING ELEVATION	= 917.7	FT

BRIDGE HYDRAULIC DATA		
DESIGN DISCHARGE	= 4400	CFS
DESIGN FREQUENCY	= 25	YR
DESIGN HW ELEVATION	= 848.2	FT
BASE DISCHARGE	= 6200	CFS
BASE FREQUENCY	= 100	YR
BASE HW ELEVATION	= 850.5	FT
OVERTOPPING DISCHARGE	= 21324	CFS
OVERTOPPING FREQUENCY	= 500+	YR
OVERTOPPING ELEVATION	= 856.4	FT
DATE OF SURVEY	= 05/23/2018	
W.S. ELEVATION AT DATE OF SURVEY	= 831.5	FT

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FOR -L- PLAN SEE SHEET 4