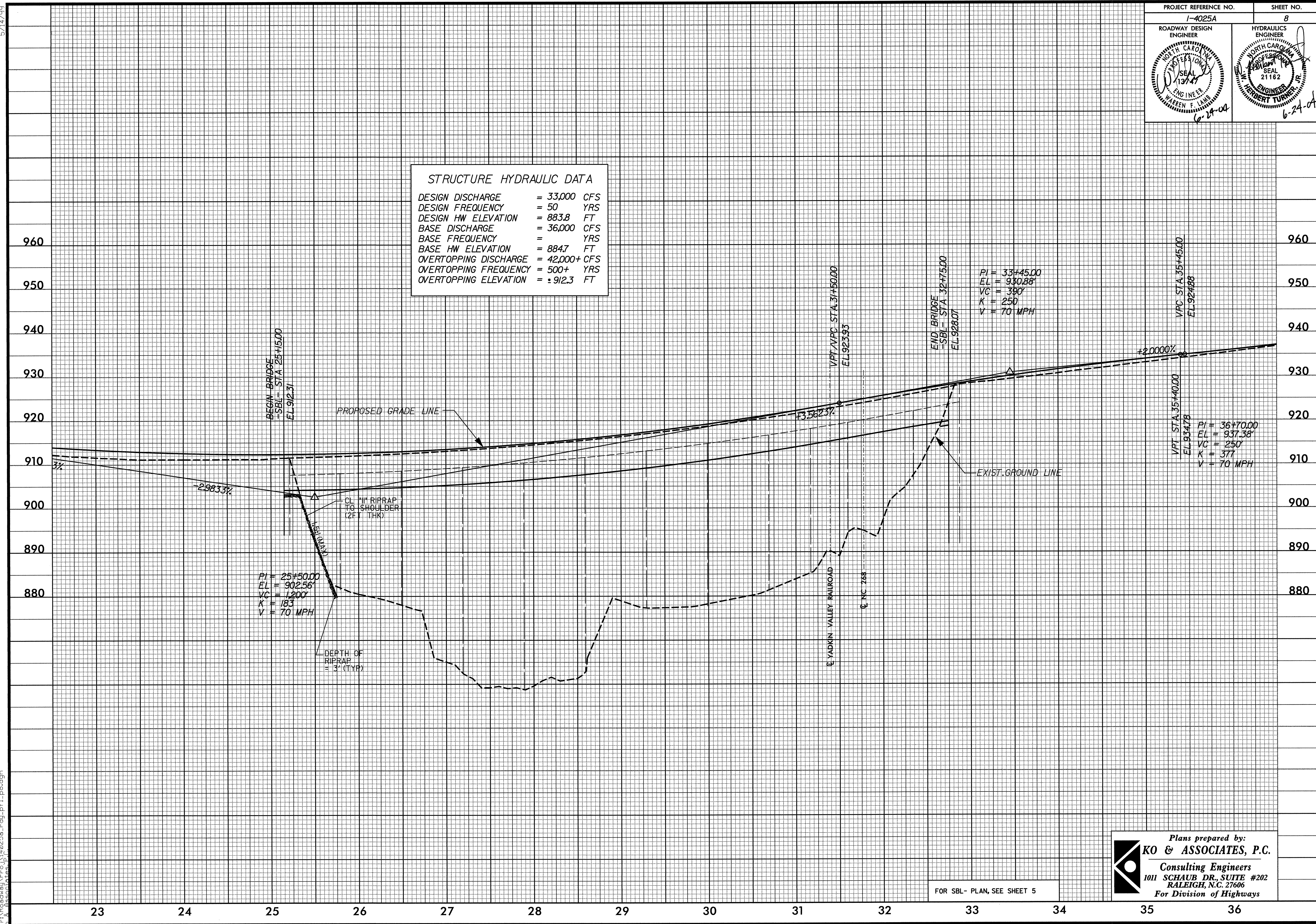


5/14/99

PROJECT REFERENCE NO. 1-4025A	SHEET NO. 8
ROADWAY DESIGN ENGINEER WARREN F. LIMS 6-29-04	HYDRAULICS ENGINEER HERBERT TURNER JR. 6-24-04

STRUCTURE HYDRAULIC DATA

DESIGN DISCHARGE = 33,000 CFS
 DESIGN FREQUENCY = 50 YRS
 DESIGN HW ELEVATION = 883.8 FT
 BASE DISCHARGE = 36,000 CFS
 BASE FREQUENCY = 5 YRS
 BASE HW ELEVATION = 884.7 FT
 OVERTOPPING DISCHARGE = 42,000+ CFS
 OVERTOPPING FREQUENCY = 500+ YRS
 OVERTOPPING ELEVATION = 912.3 FT



PI = 25+50.00
 EL = 902.56'
 VC = 1200'
 K = 183
 V = 70 MPH

PI = 33+45.00
 EL = 930.88'
 VC = 390'
 K = 250
 V = 70 MPH

PI = 36+70.00
 EL = 937.38'
 VC = 250'
 K = 377
 V = 70 MPH

BEGIN BRIDGE
 -SBL- STA. 23+15.00
 EL. 912.3'

VPT/VPC STA. 31+50.00
 EL. 923.93'

END BRIDGE
 -SBL- STA. 32+45.00
 EL. 928.07'

VPC STA. 35+45.00
 EL. 924.88'

CL "1" RIPRAP
 TO SHOULDER
 (2 FT THK)

DEPTH OF
 RIPRAP
 = 3' (TYP)

FOR SBL- PLAN, SEE SHEET 5

Plans prepared by:
KO & ASSOCIATES, P.C.
 Consulting Engineers
 1011 SCHAUB DR., SUITE #202
 RALEIGH, N.C. 27606
 For Division of Highways

06/18/2004
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 K&A Associates, P.C.