

5/14/19



2810 WYCLIFF ROAD  
SUITE 410  
RALEIGH, NC 27603  
PHONE: 919.881.9939  
NC CDA No. F-0629

PROJECT REFERENCE NO. B-5318 SHEET NO. 8

ROADWAY DESIGN ENGINEER SEAL 038648  
 PROFESSIONAL ENGINEER  
 STATE OF NORTH CAROLINA  
 DSE/CDF/7884/C486

HYDRAULICS ENGINEER SEAL 028933  
 PROFESSIONAL ENGINEER  
 STATE OF NORTH CAROLINA  
 C4483D325CF4490

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

**BRIDGE HYDRAULIC DATA**

DESIGN DISCHARGE = 5370 CFS  
 DESIGN FREQUENCY = 50 YRS  
 DESIGN HW ELEVATION = 206J FT  
 BASE DISCHARGE = 5970 CFS  
 BASE FREQUENCY = 100 YRS  
 BASE HW ELEVATION = 206.5 FT  
 OVERTOPPING DISCHARGE = 30400 CFS  
 OVERTOPPING FREQUENCY = 500+ YRS  
 OVERTOPPING ELEVATION = 217.0 FT

DATE OF SURVEY = 2/1/2018  
 W.S. ELEVATION AT DATE OF SURVEY = 196.0 FT

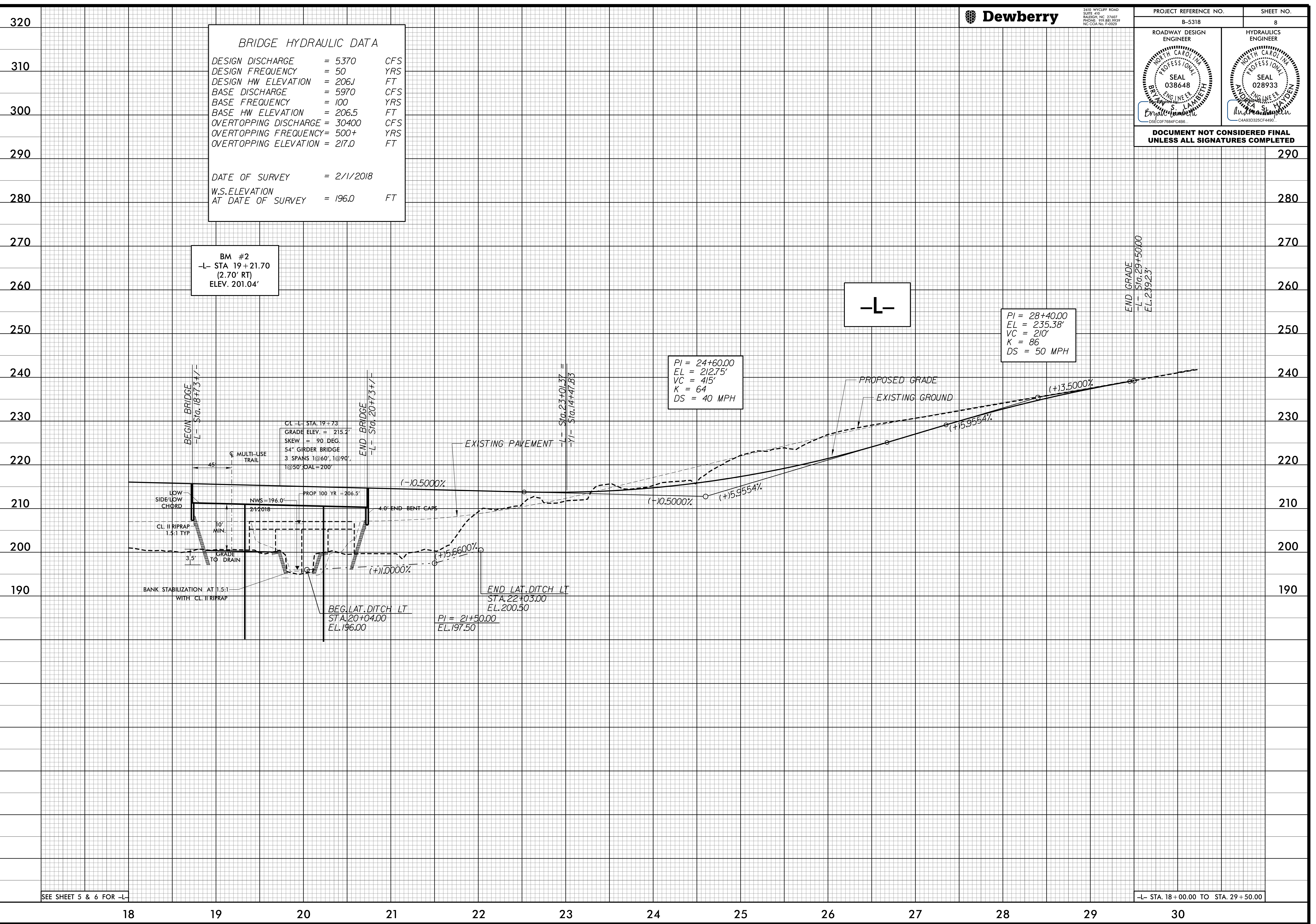
BM #2  
 -L- STA 19+21.70  
 (2.70' RT)  
 ELEV. 201.04'

-L-

PI = 28+40.00  
 EL = 235.38'  
 VC = 210'  
 K = 86  
 DS = 50 MPH

PI = 24+60.00  
 EL = 212.75'  
 VC = 415'  
 K = 64  
 DS = 40 MPH

END GRADE  
 -L- STA. 29+50.00  
 EL. 239.23'



SEE SHEET 5 & 6 FOR -L-

-L- STA. 18+00.00 TO STA. 29+50.00

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