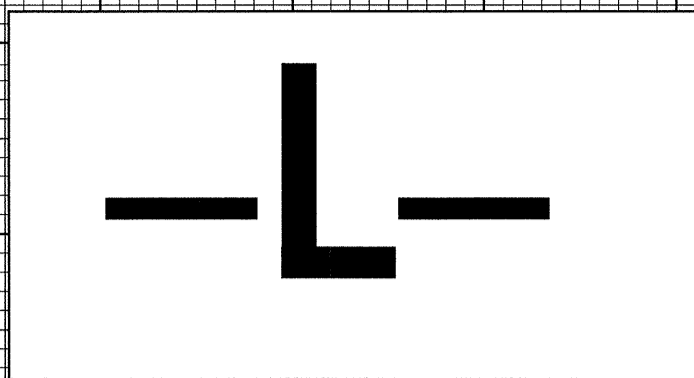
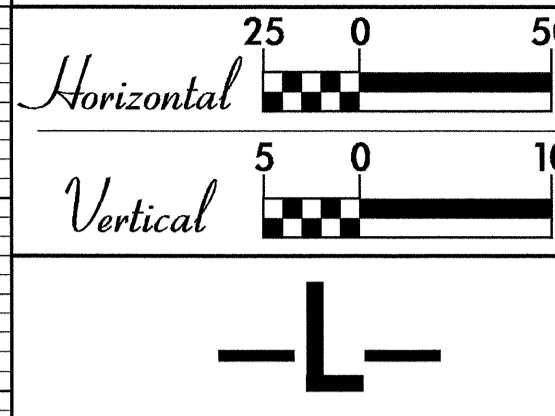


5/14/99

05_AUG-2004_08:54
D:\Gardner\Projects\B4058\rdy-pf1.dgn



SCALE (ENGLISH)

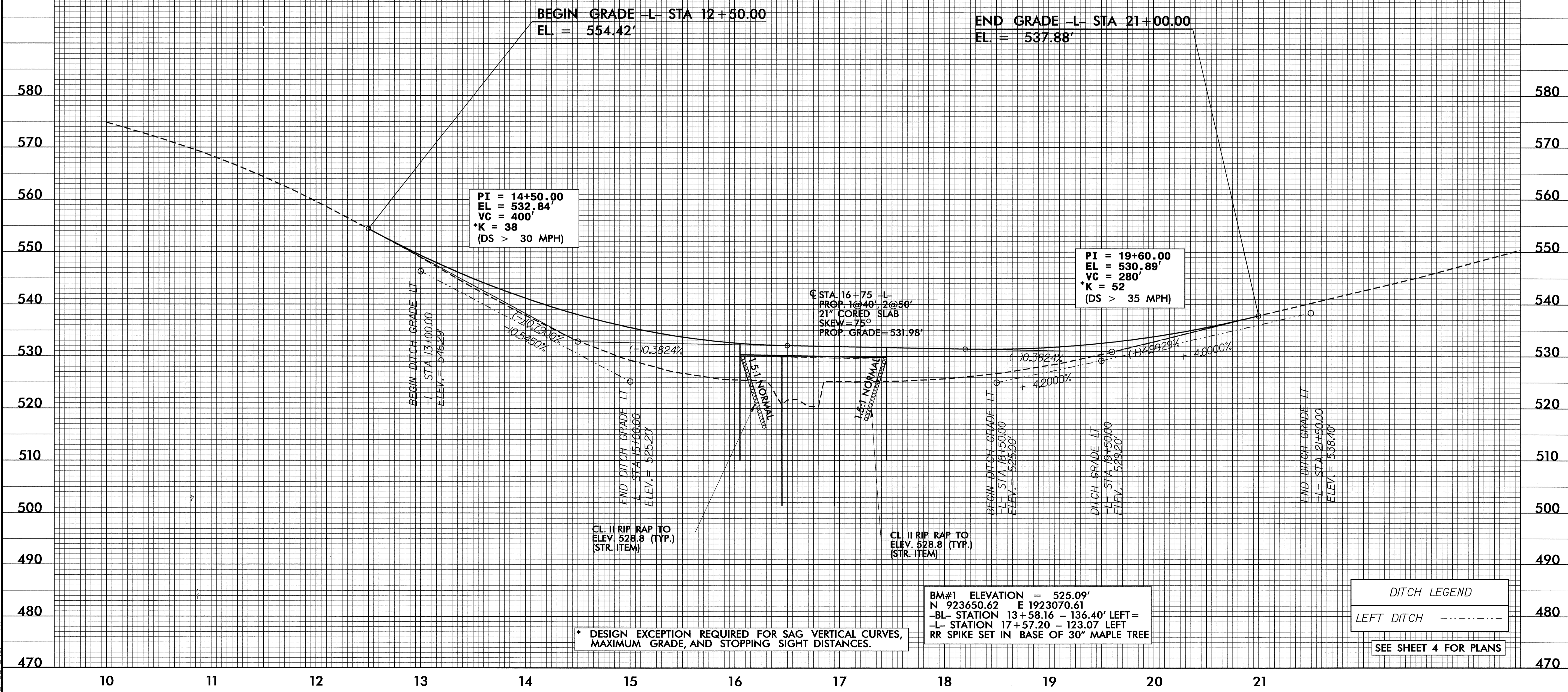


PROJECT REFERENCE NO. B-4058	SHEET NO. 5
ROADWAY DESIGN ENGINEER <i>James A. Speer</i>	HYDRAULICS ENGINEER <i>Paul Atkinson</i>
NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 14571 JAMES A. SPEER 10/13/04	NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 19680 PAUL ATKINSON

BRIDGE HYDRAULIC DATA

DESIGN DISCHARGE = 1300 CFS
 DESIGN FREQUENCY = 25 YR
 DESIGN HW ELEVATION = 527.8 FT
 BASE DISCHARGE = 2000 CFS
 BASE FREQUENCY = 100 YR
 BASE HW ELEVATION = 528.9 FT
 OVERTOPPING DISCHARGE = 3100 CFS*
 OVERTOPPING FREQUENCY = 500 YR*
 OVERTOPPING ELEVATION = 531.6 FT

DATE OF SURVEY = 6-30-03
 W.S.ELEVATION AT DATE OF SURVEY = 523J FT



PI = 14+50.00
 EL = 532.84'
 VC = 400'
 *K = 38
 (DS > 30 MPH)

PI = 19+60.00
 EL = 530.89'
 VC = 280'
 *K = 52
 (DS > 35 MPH)

C STA. 16+75 -L-
 PROP. 1@40', 2@50'
 21' CORED SLAB
 SKEW = 75°
 PROP. GRADE = 531.98'

* DESIGN EXCEPTION REQUIRED FOR SAG VERTICAL CURVES,
 MAXIMUM GRADE, AND STOPPING SIGHT DISTANCES.

BM#1 ELEVATION = 525.09'
 N 923650.62 E 1923070.61
 -BL- STATION 13+58.16 - 136.40' LEFT =
 -L- STATION 17+57.20 - 123.07' LEFT
 RR SPIKE SET IN BASE OF 30" MAPLE TREE

DITCH LEGEND
 LEFT DITCH - - - - -
 SEE SHEET 4 FOR PLANS