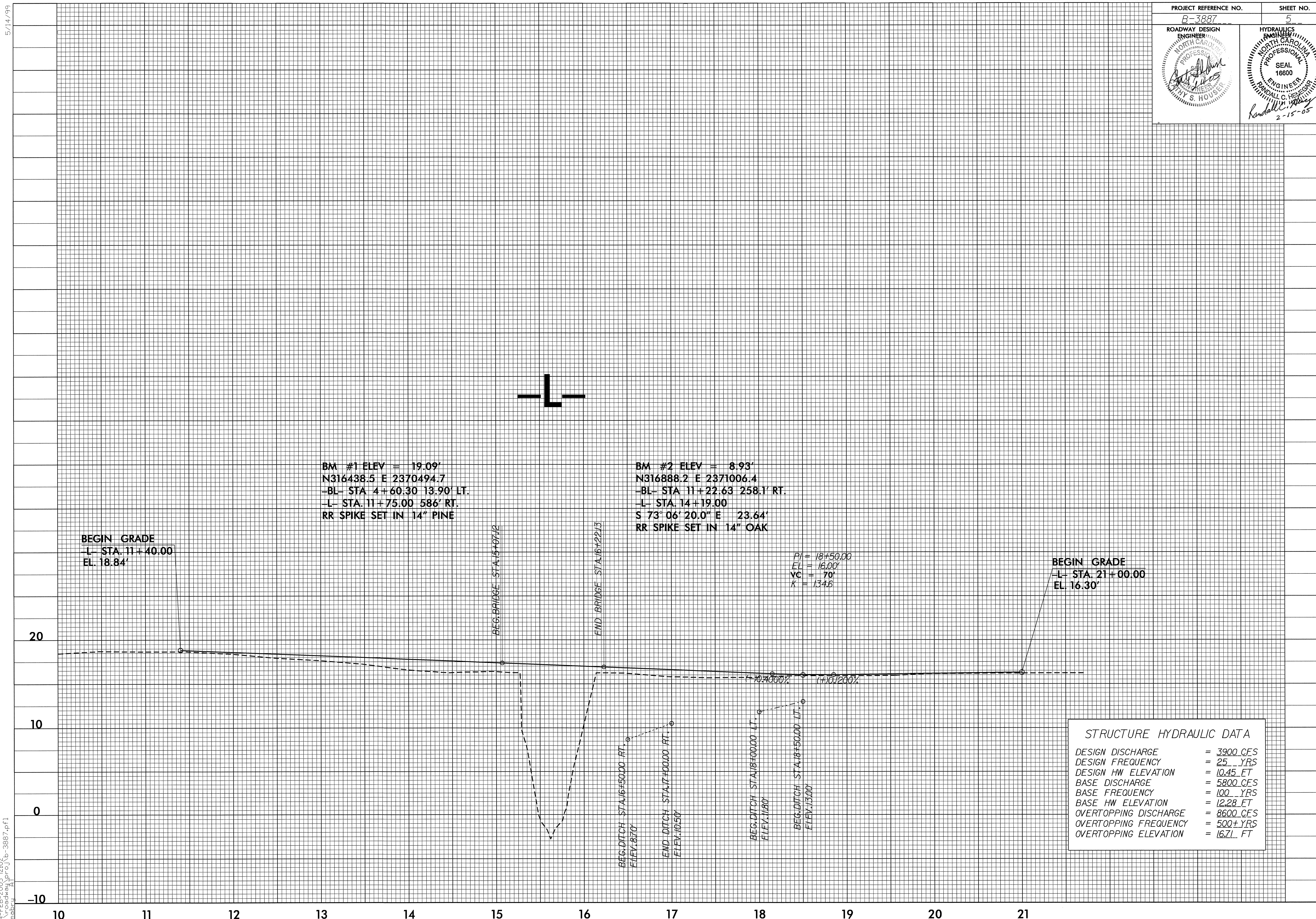
PROJECT REFERENCE NO.	SHEET NO.
B-3887	5

ROADWAY DESIGN ENGINEER — NORTH CAROLINA PROFESSIONAL ENGINEER CATHY S. HOUSER

HYDRAULICS ENGINEER — NORTH CAROLINA PROFESSIONAL SEAL 16600 ENGINEER RANDALL C. HENEGAR

2-15-05



5/14/99
-L-
BM #1 ELEV = 19.09'
N316438.5 E 2370494.7
-BL- STA 4+60.30 13.90' LT.
-L- STA. 11+75.00 586' RT.
RR SPIKE SET IN 14" PINE
BM #2 ELEV = 8.93'
N316888.2 E 2371006.4
-BL- STA 11+22.63 258.1' RT.
-L- STA. 14+19.00
S 73° 06' 20.0" E 23.64'
RR SPIKE SET IN 14" OAK
BEGIN GRADE
-L- STA. 11+40.00
EL. 18.84'
BEG.BRIDGE STA.15+07.12
END BRIDGE STA.16+22.13
PI = 18+50.00
EL = 16.00'
VC = 70'
K = 134.6
BEGIN GRADE
-L- STA. 21+00.00
EL. 16.30'
(-)0.4000%
(+)0.1200%
BEG.DITCH STA.16+50.00 RT.
ELEV. 8.70'
END DITCH STA.17+00.00 RT.
ELEV. 10.50'
BEG.DITCH STA.18+00.00 LT.
ELEV. 11.80'
BEG.DITCH STA.18+50.00 LT.
ELEV. 13.00'
20
10
0
-10
10
11
12
13
14
15
16
17
18
19
20
21
04-FEB-2005 12:02
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vmabry AT

STRUCTURE HYDRAULIC DATA

DESIGN DISCHARGE	=	3900 CFS
DESIGN FREQUENCY	=	25 YRS
DESIGN HW ELEVATION	=	10.45 FT
BASE DISCHARGE	=	5800 CFS
BASE FREQUENCY	=	100 YRS
BASE HW ELEVATION	=	12.28 FT
OVERTOPPING DISCHARGE	=	8600 CFS
OVERTOPPING FREQUENCY	=	500+ YRS
OVERTOPPING ELEVATION	=	16.71 FT