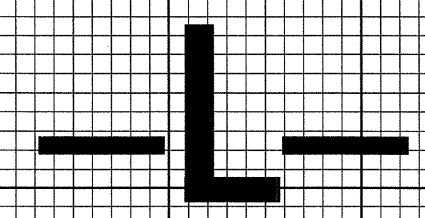


5/14/99

ROADWAY DESIGN ENGINEER
NORTH CAROLINA PROFESSIONAL SEAL 14493
STAFFORD GOODRIGHT

HYDRAULICS ENGINEER
NORTH CAROLINA PROFESSIONAL SEAL 12575
JAMES W. FISHER

BM #2
-BL- STA. 13+94.26 (61.77') LT.
EL. 873.45'
8" NAIL SET IN BASE OF 13" HICKORY



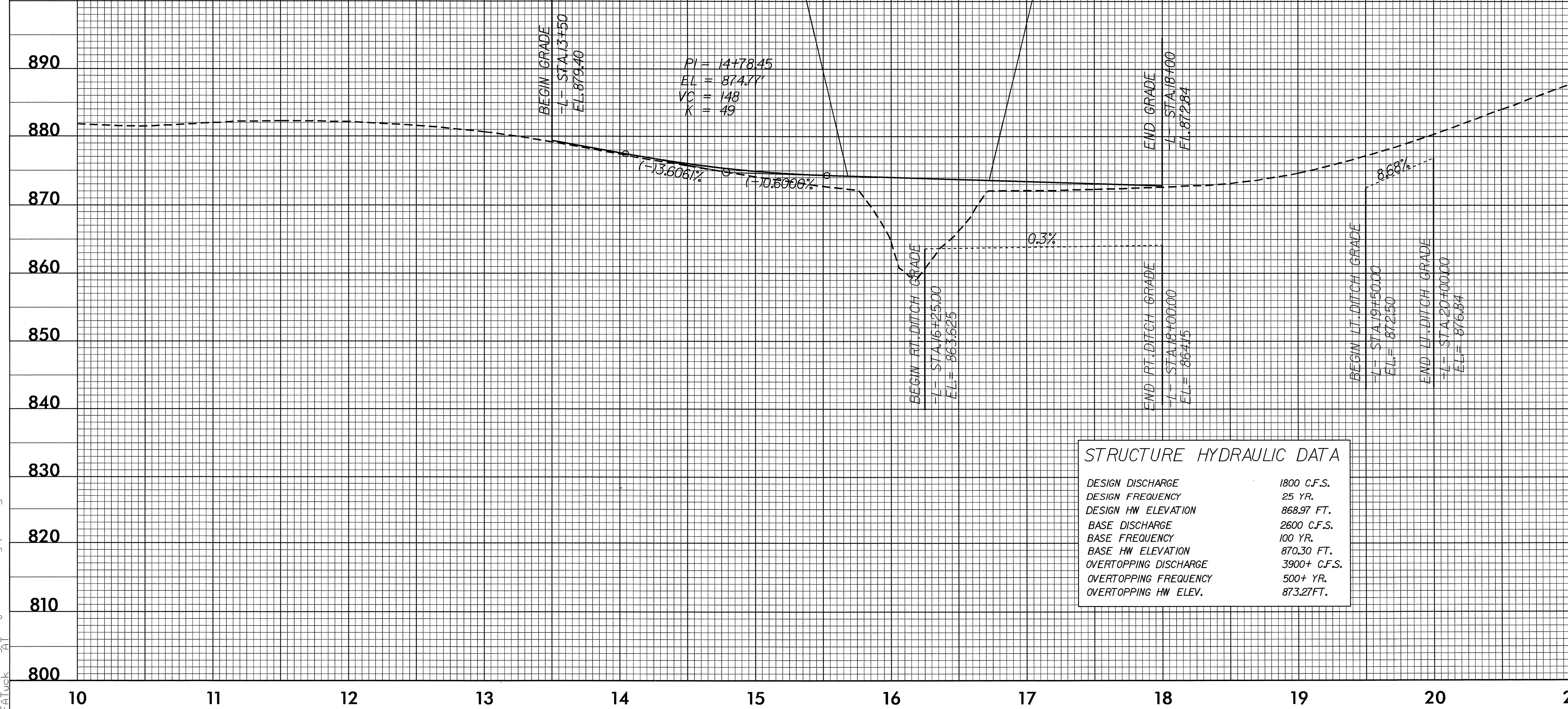
BM #3
-BL- STA. 22+00.13 (49.86') LT.
EL. 897.93
8" NAIL SET IN BASE OF 19" RED OAK

* DESIGN EXCEPTION
60 MPH DESIGN SPEED REQUIRED
K VALUES NOT ACHIEVED
DESIGN EXCEPTION REQUESTED FOR DESIGN SPEED (30 MPH)

BEGIN BRIDGE
STA. 15+73.47

END BRIDGE
STA. 16+73.47

PI = 14+78.45
EL = 874.77'
VC = 148
K = 49



BEGIN RT. DITCH GRADE
-L- STA. 16+25.00
EL = 863.625

END RT. DITCH GRADE
-L- STA. 18+00.00
EL = 864.15

BEGIN LT. DITCH GRADE
-L- STA. 19+50.00
EL = 872.50

END LT. DITCH GRADE
-L- STA. 20+00.00
EL = 876.84

STRUCTURE HYDRAULIC DATA

DESIGN DISCHARGE	1800 C.F.S.
DESIGN FREQUENCY	25 YR.
DESIGN HW ELEVATION	868.97 FT.
BASE DISCHARGE	2600 C.F.S.
BASE FREQUENCY	100 YR.
BASE HW ELEVATION	870.30 FT.
OVERTOPPING DISCHARGE	3900+ C.F.S.
OVERTOPPING FREQUENCY	500+ YR.
OVERTOPPING HW ELEV.	873.27 FT.

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FATuck