

5/14/99

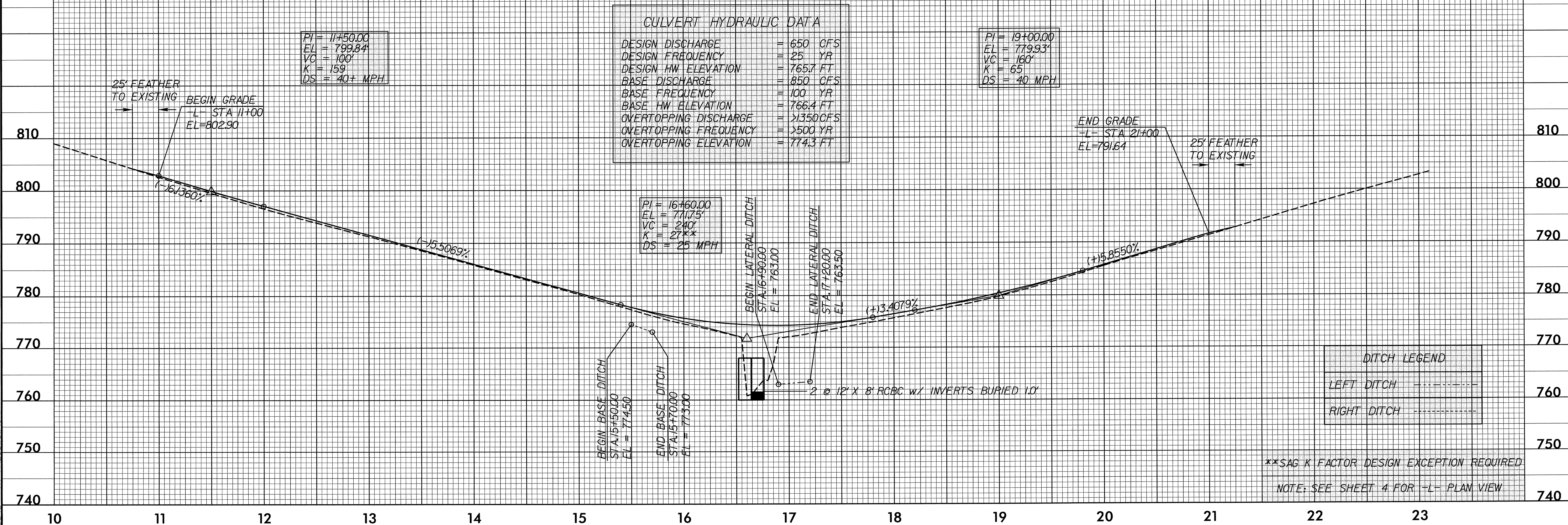
PROJECT REFERENCE NO. B-3834	SHEET NO. 5
ROADWAY DESIGN ENGINEER DAVID W. BASS NORTH CAROLINA PROFESSIONAL SEAL 20107 5/27/85	HYDRAULICS ENGINEER DAVID W. BASS NORTH CAROLINA PROFESSIONAL SEAL 29185 5/24/05

PBSJ 1616 EAST MILLBROOK ROAD, SUITE 310
RALEIGH, NORTH CAROLINA 27609
PHONE: (919) 876-6888

BM #1 - R/R SPIKE SET IN BASE OF 18" OAK
169' OFF W. EP AND 88' FROM POWER
POLE BEHIND MTL BUSINESS.
COURSE FROM BL 116PS-1 TO BM #1
N 71°32'35" W DIST. = 140.2'
N 48887' E 1681560
ELEV = 766.39'

BM #2 - R/R SPIKE SET IN EP OF MAGNOLIA LN.
33' NORTH OF 48" CONC. PIPE
JUST PAST 2ND HOUSE ON LT.
L- STA. 20+32.50 322.89' LT.
ELEV = 783.10'

-L-



CULVERT HYDRAULIC DATA

DESIGN DISCHARGE	= 650 CFS
DESIGN FREQUENCY	= 25 YR
DESIGN HW ELEVATION	= 765.7 FT
BASE DISCHARGE	= 850 CFS
BASE FREQUENCY	= 100 YR
BASE HW ELEVATION	= 766.4 FT
OVERTOPPING DISCHARGE	= 2350 CFS
OVERTOPPING FREQUENCY	= 500 YR
OVERTOPPING ELEVATION	= 774.3 FT

PI = 16+60.00
EL = 771.75'
VC = 240'
K = 27.4
DS = 25 MPH

PI = 19+00.00
EL = 779.93'
VC = 160'
K = 65
DS = 40 MPH

DITCH LEGEND

LEFT DITCH	-----
RIGHT DITCH	-----

**SAG K FACTOR DESIGN EXCEPTION REQUIRED
NOTE: SEE SHEET 4 FOR -L- PLAN VIEW

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